

Stormwater Pollution Control Plan

Prepared For: R & N Holding Company, LLC
P.O. Box 246
West Mystic, CT 06388

Facility Operator: R & N Holding Company, LLC
P.O. Box 246
West Mystic, CT 06388
Rob Hohlfelder
(860) 705-9299
mtkineobuilders@att.net

Stormwater Manager and SPCP Contact

Stormwater Program Manager: R & N Holding Company, LLC
P.O. Box 246
West Mystic, CT 06388
Rob Hohlfelder
(860) 705-9299
mtkineobuilders@att.net

SPCP Contractor Contact: R & N Holding Company, LLC
P.O. Box 246
West Mystic, CT 06388
Rob Hohlfelder
(860) 705-9299
mtkineobuilders@att.net

SPCP Preparation Information: Boundaries LLC
Jacob Faulise, P.E.
P.O. Box 184
179 Pachaug River Drive
Griswold, CT 06351
860-376-2006
jsfaulise@boundariesllc.net

Date Prepared: March 2026

Estimated Project Construction Dates:

Start of Construction: June 2026

Completion of Construction: June 2031 (Dependent on lot development)

TABLE OF CONTENTS

SECTION 1 – SITE EVALUATION, ASSESSMENT AND PLANNING

1.1 – Project/ Site Information	1
1.2 – Contact Information/Responsible Parties	2
1.3 – Nature and Sequence of Construction Activity	2
1.4 – Soils, Slopes, Vegetation, and Current Drainage Patterns	5
1.5 – Construction Site Estimates	6
1.6 – Receiving Waters	6
1.7 – Site Features and Sensitive Areas to be Protected	7
1.8 – Potential Sources of Pollution	7
1.9 – Endangered Species Certification	7
1.10- Historic Preservation	8
1.11- Maps	8

SECTION 2 – EROSION AND SEDIMENT CONTROL BMPs

2.1 – Minimize Disturbed Area and Protect Natural Features and Soil	9
2.2 – Control Stormwater Flowing Onto and Through the Project	9
2.3 – Establish Stabilized Construction Exits	12
2.4 – Temporary Sediment Trap	13
2.5 – Control Dewatering Practices	14
2.6 – Slope Protection	14
2.7 – Stabilize Soils	16

SECTION 3 – GOOD HOUSEKEEPING BMPs

3.1 – Good Housekeeping BMPs	20
3.2 – Allowable Non-Stormwater Discharge Management	24

SECTION 4 – POST-CONSTRUCTION BMPs

4.1 – Stormwater Management Plan	25
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SECTION 5 – INSPECTION AND MAINTENANCE

5.1 – Inspections	27
5.2 – Maintenance of Controls	29

SECTION 6 – RECORDKEEPING AND TRAINING

6.1 – Recordkeeping	31
6.2 – Log of Changes to the SPCP	31
6.3 – Training	31

SECTION 7 – FINAL STABILIZATION AND PROJECT CLOSEOUT

7.1 – Final Stabilization	33
7.2 – Project Closeout	34

SECTION 8 – CERTIFICATION AND NOTIFICATION

SPCP APPENDICES

Appendix A – General Location Map

Appendix B – Site Development Plan

Appendix C – NDDDB Correspondence

Appendix D – SHPO Correspondence

Appendix E – Inspection Reports

Appendix F – Log of Corrective Actions and Amendments to SWPCP

Appendix G – Grading and Stabilization Activities Log

Appendix H – Subcontractor Certifications/Agreements

Appendix I – SPCP Training Log

Appendix J – Notice of Termination Form

Appendix K – Construction General Permit Conditions

SECTION 1

SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Project/Site Name: Evergreen Hills Resubdivision

Project Street/Location: 47 Sharp Hill Road (Map 23, Lot 63)

City: Montville State: Connecticut Zip Code: 06382

County or Similar Subdivision: New London

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude:

Longitude:

41.45163 ° N (decimal degrees)

72.14444 ° W (decimal degrees)

Method for determining latitude/longitude:

USGS topographic map (specify scale: _____) EPA Web site GPS

Other (please specify): Google Earth Pro

Is the project located in Indian country? Yes No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable." N/A

Is this project considered a federal facility? Yes No

See Appendix A for General Location Map.

Normal Working Hours : 7:00 AM to 6:00 PM Monday through Friday, Saturday 8 AM to 6 PM
for construction activities.

1.2 Contact Information/ Responsible Parties

Facility Operator: R & N Holding Company, LLC
P.O. Box 246
West Mystic, CT 06388
Rob Hohlfelder
(860) 705-9299
mtkineobuilders@att.net

Contractor Project Manager: R & N Holding Company, LLC
P.O. Box 246
West Mystic, CT 06388
Rob Hohlfelder
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1.3 Nature and Sequence of Construction Activity

The proposed project consists of grading and stormwater management improvements for the construction of a new town road to serve an approved 23 lot residential subdivision. Construction of the roadway will include grading, installation of a roadway drainage system, stormwater management improvements, and installation of common utilities including sanitary sewer, electric, telephone and cable. Building lots range in size from approximately 1/4 acre to 1/2 acre and will be served by public sewer and on-site wells. The residences, driveways, individual lot grading, and drilled wells are shown on the subdivision plans for conceptual purposes only. Prior to any individual lot development, a site plan shall be prepared in accordance with all applicable local regulations and reviewed and approved by the Town.

The total area of disturbance required to construct the road and build out the subdivision is approximately 9.2 acres. The post-development curve number of the development area watershed will be approximately 76 (pre-development curve number is 72).

Construction of the project shall be staged to limit the actively disturbed area to the maximum extent achievable. The proposed activities will take place as follows:

- Stage 1: Roadway Construction – Clear site, install erosion control measures, remove and stockpile topsoil, rough grade roadbed, install drainage system and stormwater management improvements, install common utilities, prepare roadbed base and pave, stabilize graded areas outside of roadway and remove erosion control measures (area of disturbance - ±5.0 acres)
- Stage 2: Individual Building Lots – Clear lots, install erosion control measures, rough grade driveways and building areas, construct residences and install utility connections and wells, pave driveways and perform final site grading, stabilize graded areas and remove erosion control measures (area of disturbance - ±4.2 acres)

An anti-tracking pad, perimeter and intermediate sediment fence, and staked straw bales shall be installed at locations shown during the respective phase of the project. These measures shall be maintained until all disturbed areas have been permanently stabilized. Temporary sediment traps and diversion swales shall be constructed where areas of disturbance exceed 2 acres as shown on the erosion and sedimentation control plans. Sediment fence backed by staked straw bales shall be installed at the downgradient project perimeter and upgradient of proposed stormwater management features. It is the intention of this plan that erosion and sedimentation will be prevented by the sediment barriers upgradient of the proposed stormwater management features with the stormwater management features only receiving incidental sedimentation during construction. The stormwater management features are not intended to serve as sediment traps in order to improve the long-term treatment provided by the proposed features.

What is the function of the construction activity?

- Residential Commercial Industrial Road Construction
 Linear Utility
 Other (please specify): _____

Estimated Project Start Date: June 2026
Estimated Project Completion Date: June 2031 (Dependent on lot development)

Suggested Sequence of Construction:

Prior to the start of construction, the contractor shall schedule a mandatory preconstruction meeting on site to discuss issues as they relate to the proposed project. These issues will include but not be limited to:

1. Resource protection.
2. Construction vehicle access and parking.
3. Construction methods and scheduling.
4. Existing site utilities and mark-out coordination.
5. Material delivery and stockpiling.
6. Site inspection procedures.

Phase 1 - Installation of Erosion Controls

1. Obtain appropriate permits, including CT DEEP Construction General Permit. Notify Town officials of construction commencement and submit construction timetable. Contact "Call Before You Dig" at 800-922-4455 to mark out all underground utilities a minimum of 72 hours prior to the commencing any construction activities.
2. On-site construction sequence shall start with the minimum amount of clearing required to install sediment barriers, and/or straw bales as shown on plan.
3. Install sediment barriers, anti-tracking pad at construction exit, and straw bales as shown on the plans or as required.
4. Following installation of the erosion controls the contractor shall contact Town staff for inspection and approval of installed measures. No work shall commence until all erosion control measures have been installed and approved by town staff or their representatives.

Phase 2 – Roadway, Drainage, Utilities and Associated Earthwork

1. Clear and grub site to the proposed clearing limits, strip and stockpile topsoil from proposed grading areas after erosion and sediment control measures have been installed including sediment trap(s). The topsoil shall be seeded immediately after stockpiling in order to stabilize the slope and limit sediment runoff when it is to be stored for more than 21 days from time of stockpiling.
2. Complete earthwork as required to construct roadway, drainage improvements, stormwater management basins, and utilities. Install sediment fence back by staked straw bales between stormwater management features and upgradient land disturbing activities.
3. Place and compact base material to final grade. Install base pavement course and curbing. Spread stockpiled topsoil and seed with specified seed mix on all disturbed areas not covered by pavement. Install final pavement course. Perform any remaining final grading and spread topsoil and seed with specified seed mix.
4. Remove all erosion and sediment structures after the final graded disturbed areas have been stabilized. Clean all stormwater structures of sediment and debris.

Phase 3 – Individual Lot Development

1. Obtain appropriate permits from the Town. Contact "Call Before You Dig" at 800-922-4455 to mark out all underground utilities a minimum of 72 hours prior to the commencing any construction activities.
2. Clear and grub lots to the proposed clearing limits, strip and stockpile topsoil from proposed grading areas after erosion and sediment control measures have been installed.
3. Begin construction of residences and install utilities. Add additional erosion control measures as needed. Place and compact base material to final grade. Install driveway base courses, sidewalks, steps, etc.
4. Spread stockpiled topsoil and seed with specified seed mix on all disturbed areas not covered by buildings, driveways or sidewalks. Install final pavement course. Perform any remaining final grading and spread topsoil and seed with specified mix.
5. Remove all erosion and sediment structures after the final graded disturbed areas have been stabilized. Clean all stormwater structures of sediment and debris.

Anticipated Construction Schedule

<u>Phase Description</u>	<u>Estimated Duration</u>
Installation of Erosion Controls	2 weeks
Roadway, Drainage, Utilities and Associated Earthwork	12 months
Individual Lot Development	±5 years

See Appendix B for site development plans for additional information and details.

1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type:

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey, the soils located in the development area are:

- 46B Woodbridge fine sandy loams, 0-8% slopes, very stony
- 47C Woodbridge fine sandy loams, 3-15% slopes, extremely stony
- 62D Canton & Charlton fine sandy loams, 15-35% slopes, extremely stony
- 84B Paxton & Montauk fine sandy loams, 3-8% slopes
- 85C Paxton & Montauk fine sandy loams, 8-15% slopes, very stony

Slopes:

The high point of the project area is located along the southwesterly boundary downgradient of Carol Drive. The project area slopes northeasterly with grades of between 5% and 20%. Elevations across the project area are from 416 to 326 feet. The proposed road has a maximum running slope of 7.0% and the proposed driveways have maximum slopes of 10.0%. Stormwater runoff generally is collected by a series of catch basins and underdrains before discharging to stormwater basins. Post-development runoff patterns and peak flow rates will match existing conditions.

Drainage System:

There are four proposed discharge locations in the project area. The proposed discharge points allow the collected stormwater runoff from the proposed development area to drain from the site after detention and treatment and divert runoff from contributing stormwater management systems around the proposed development areas. The discharge locations are:

Discharge ID	Location	Drawing Number	Description
1	Bioretention Basin B	DSW-1	24" HDPE with Rip Rap Apron
2	Drainage Manhole 4 (Underdrains 1-6)	DSW-1	6" PVC with Rip Rap Apron
3	Bioretention Basin C	DSW-1	15" HDPE with Rip Rap Apron
4	Underdrain 7	DSW-1	6" PVC with Rip Rap Apron

1.5 Construction Site Estimates

The following are estimates of the project site characteristics before and after construction:

Property Area	Total Project Disturbed Area	Pre-Development Impervious Coverage	Post-Development Impervious Coverage
19.5 Acres	9.2 Acres	0.0 Acres 0.0%	2.1 Acres 10.8%

1.6 Receiving Waters

Description of receiving waters:

The project is located within:

- Subregional Basin 3004.

All runoff from the proposed development ultimately drains to Rockland Pond through a series of wetlands and overland flow paths.

Description of impaired waters or waters subject to TMDLs: N/A

1.7 Site Features and Sensitive Areas to be Protected

Description of unique features and measures to protect them:

An archaeological study was completed on the property and no significant resources were encountered. On-site wetlands will be protected through implementation of the proposed SPCP.

1.8 Potential Sources of Pollution

Potential sources of sediment to storm water runoff:

Potential sources of sediment include clearing and grubbing operations, grading, site excavation operations, and vehicle tracking.

Potential pollutants and sources, other than sediment, to storm water runoff:

Combined staging area including fueling activities, equipment maintenance, sanitary facilities, and waste storage.

Materials storage area including solvents, adhesives, paving materials, paints, aggregates, trash.

Construction activity including paving and concrete installation.

1.9 Endangered Species Certification

Are endangered or threatened species and critical habitats on or near the project area?

Yes No

Describe how this determination was made:

A "State and Federal Listed Species and Significant Natural Communities Map" review as described by the Connecticut Department of Energy & Environmental Protection was conducted for the project location. The date of the map was December 2025.

If yes, describe the species and/or critical habitat:

N/A

If yes, describe or refer to documentation which determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact.

See Appendix C for NDDB Correspondence.

1.10 Historic Preservation

Are there any historic sites on or near the construction site?

Yes No

Describe how this determination was made:

Project was reviewed in accordance with General Permit Appendix 'G' procedures and submitted to the State Historic Preservation Office. An archeologist reviewed the project area for historic resources. State Historic Preservation Office correspondence is included in Appendix D.

If yes, describe or refer to documentation which determines the likelihood of an impact on this historic site and the steps taken to address that impact: N/A

1.11 Maps

Develop and keep up-to-date site maps showing non-structural BMPs. Location changes resulting from on-going construction activities should be indicated on these maps. Site Development Plans are included in Appendix B.

These maps include:

- Direction(s) of stormwater flow and approximate slopes before and after major grading activities
- Areas and timing of soil disturbance and areas that shall not be disturbed
- Natural features to be preserved
- Locations of major structural and non-structural BMPs identified in the SWPPP
- Locations and timing of stabilization measures
- Locations of off-site material, waste, borrow, or equipment storage areas
- Locations of all waters of the U.S., including wetlands
- Locations where stormwater discharges to a surface water
- Locations of storm drain inlets
- Areas where final stabilization has been accomplished

End of Section 1

SECTION 2

EROSION AND SEDIMENT CONTROL BMPs

2.1 Minimize Disturbed Area and Protect Natural Features and Soil:

Topsoil:

Topsoil shall be removed and stockpiled on site and utilized for final grading. Additional topsoil, if required, shall be supplied from an off-site source. When soil is stockpiled, the slope of the stockpile shall not exceed 2 horizontal to 1 vertical. Topsoil stockpiles shall be seeded with rye grass immediately. All stockpile areas shall be surrounded with a sediment fence barrier.

Installation Schedule: As noted, excavated topsoil shall be stockpiled on site. Sediment fence shall be placed around all stockpiles.

Maintenance and Inspection: The cut and fill areas shall be inspected weekly for erosion. These areas shall be stabilized immediately with erosion controls or graded to avoid possible disturbance to surrounding areas. See also maintenance and inspection procedures for silt fence.

As noted in the "sequence of construction", the proposed improvements shall be phased. All areas of the work site shall be stabilized and/or off-site discharge prevented if land disturbance activities are not planned for more than 14 days.

Construction Sequence with erosion BMPs are described in Section 1.3

2.2 Control Stormwater Flowing Onto and Through the Project:

Area for Silt to Accumulate:

BMP/Installation Schedule: Install sediment barriers at the project perimeter and downgradient of all proposed soil disturbance. Before any grading operations begin, a sediment barrier shall be installed adjacent to the areas under construction just outside the limits of disturbance.

Other adjacent off-site areas shall always be protected by a sediment fence or another BMP until final stabilization is achieved.

Maintenance and Inspection: The graded areas and sediment barriers shall be inspected weekly to ensure that there are no structural failures and immediately after rain events.

Construction Specifications

Wood chip berm:

1. The material for wood chip berms shall be created on site by chipping logs and stumps cleared from the development area.

2. Once installed, the barrier shall remain in place until all areas upslope have been permanently stabilized by vegetation or other means.

Installation:

1. Berms shall have a width at the base of approximately 6 feet and a height of approximately 2.5 feet.

Maintenance:

1. Sediment shall be removed once it has accumulated to a depth of 6 inches.
2. Wood chips shall be replaced or supplemented whenever it has deteriorated to such an extent that the effectiveness is reduced (approximately twelve months).
3. Wood chip berms shall remain in place until disturbed areas have been permanently stabilized.
4. All sediment accumulated at the wood chip berm shall be removed and properly disposed of before the berm is removed. Perimeter berms may remain in place at the completion of construction.

Inspection:

1. Inspect wood chip berms before anticipated storm events (or series of storm events such as intermittent showers over one or more days) and within 24 hours after the end of a storm event of 0.5 inches or greater, and at least once every seven calendar days.
2. Where sites have been finally or temporarily stabilized, such inspections may be conducted once per month.

Sediment Fence:

1. The material for sediment fences should be a pervious sheet of synthetic fabric such as polypropylene, nylon, polyester, or polyethylene yarn.
2. The stakes used to anchor the filter fabric should be wood or metal. Wooden stakes should be at least 3 feet long and have a minimum diameter of 2 inches if a hardwood like oak is used. Stakes from soft woods like pine should be at least 4 inches in diameter.
3. Erect sediment fence in a continuous fashion from a single roll of fabric to eliminate gaps in the fence. If a continuous roll of fabric is not available, overlap the fabric from both directions only at stakes or posts. Overlap at least 6 inches. Excavate a trench to bury the bottom of the fabric fence at least 6 inches below the ground surface. This helps to prevent gaps from forming near the ground surface. Gaps would make the fencing useless as a sediment barrier.
4. The height of the fence posts should be 16 to 34 inches above the original ground surface. Space the posts no more than 10 feet apart.
5. The fence should be designed to withstand the runoff from a 10-year peak storm event. Once installed, it should remain in place until all areas upslope have been permanently stabilized by vegetation or other means.

Installation:

1. Dig a 6" deep trench on the uphill side of the proposed barrier location.

2. Position the posts on the downhill side of the fabric barrier and drive the post 12" into the ground.
3. Lay the bottom 6" of the fabric barrier in the trench to prevent undermining and backfill.

Maintenance:

1. Sediment should be removed once it has accumulated to 4" depth.
2. Filter fabric should be replaced whenever it has deteriorated to such an extent that the effectiveness of the fabric is reduced (approximately six months).
3. Sediment fence should remain in place until disturbed areas have been permanently stabilized.
4. All sediment accumulated at the fence should be removed and properly disposed of before the fence is removed.

Inspection:

1. Inspect sediment fence before anticipated storm events (or series of storm events such as intermittent showers over one or more days) and within 24 hours after the end of a storm event of 0.5 inches or greater, and at least once every seven calendar days, at least 72 hours apart.
2. Where sites have been finally or temporarily stabilized, such inspections may be conducted once per month.

Straw Bale Barrier:

Installation:

1. Excavate trench 4" and place material upslope of trench.
2. Place bales in a single row in the trench, lengthwise, with ends of adjacent bales tightly abutting one another and the bindings oriented around the sides rather than along the tops and bottoms of the bales (to avoid premature rotting of the bindings).
4. Anchor each bale with at least 2 stakes, driving the first stake in each bale toward the previously laid bale to force the bales together. Stakes must be driven a minimum of 18 inches into the ground. Fill any gaps between the bales with hay or straw to prevent water from escaping between the bales.
5. Backfill the bales with the excavated trench material to a minimum depth of 4 inches on the uphill side of the bales. Tamp by hand or machine and compact the soil. Loose straw scattered over the disturbed area immediately uphill from the straw bale barrier tends to increase barrier efficiency.

Maintenance

1. Inspect the straw bale barrier at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs. Remove the sediment deposits or install a secondary barrier upslope from the existing barrier when sediment deposits reach approximately one half the height of the barrier.
2. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
 - (a) the barrier has been overtopped, undercut or bypassed by runoff water,
 - (b) the barrier has been moved out of position, or

- (c) the straw bales have deteriorated or been damaged.
3. When repetitive failures occur at the same location, review conditions and limitations for use and determine if additional controls are needed to reduce failure rate or replace straw bale barrier.
4. Maintain the straw bale barrier until the contributing area is stabilized. After the upslope areas have been permanently stabilized, pull the stakes out of the straw bales. Remove sediment.

Dust Control:

Dust from the site shall be controlled by using a mobile pressure-type distributor truck that shall apply potable water at rate of 300 gallons per acre and minimized as needed to avoid ponding.

Installation Schedule: Dust control shall be implemented as needed once site grading has been initiated, and during windy conditions exceeding 20mph, while site grading is occurring. Spraying of potable water shall be performed once per day during the months of march through may and no more than three times per day from June to September or whenever dryness of soil warrants it.

Maintenance Schedule: At least one mobile unit shall be available at all times during construction to apply potable water. Each mobile unit shall be equipped with a positive shutoff valve to prevent overwatering of disturbed areas.

2.3 Establish Stabilized Construction Exits:

Stabilized Construction Exit:

A stabilized construction exit shall be installed at the entrance and exit to the job site before construction begins. Stabilized exits are used to prevent the off-site transport of sediment by construction vehicles. At the entrance and exits to the site, the vehicle tracking pad (VTP) shall be at least 22 ft wide or at least the width of the entrance that exists, whichever is greater. The crushed stone for the VTP at the entrance or exit shall be placed over a layer of geotextile. For additional details see the Erosion Control Plan.

Construction Specifications

Stabilized Construction Exit

1. The width should be at least 22 feet but not less than the full width of points where ingress or egress occurs. At sites where traffic volume is high, the entrance should be wide enough for two vehicles to pass safely.
2. The minimum length should be 50 ft.
3. Total depth of rock should be at least 6 inches. Fractured stone 2 to 8 in. diameter (for the base layer) and crushed stone 2 in. diameter or reclaimed or recycled concrete equivalent (for the top layer).
4. Include geotextile (filter fabric) with the products placed over the entire area to be covered with aggregate. The geotextile should be a woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The geotextile should be inert to commonly encountered chemicals, hydrocarbons, mildew, and rot resistant.

5. Clear all vegetation, roots, and all other obstructions in preparation for grading. Prior to placing geotextile (filter fabric), make sure that the entrance is properly graded and compacted.

Maintenance:

1. The entrance should be maintained in a condition that shall prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with additional 2 in. stone (as conditions demand) and repair or cleaning of any structures used to trap sediment.
2. All materials spilled, dropped, washed, or tracked from vehicles onto roadways should be removed immediately. When necessary, vehicle wheels should be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it should be done on an area stabilized with aggregate that drains into an approved sediment trap.
3. Trapped sediment should be removed from the site or stabilized on site and prevented from entering storm drains, ditches, or waterways. Disturbed soil areas resulting from removal should be permanently stabilized.
4. The stabilized construction entrance may be removed after final site stabilization is achieved or after the temporary BMPs are no longer needed.

Inspection:

1. Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities.
2. While activities associated with the BMPs are under way, and at least once every seven calendar days, at least 72 hours apart.
3. Inspect local roads adjacent to the site daily. Sweep or vacuum to remove visible accumulated sediment.

2.4 Temporary Sediment Trap:

Size and construct the basin in accordance with the requirements of the "Connecticut Guidelines for Soil Erosion and Sediment Control, March 2024".

Site Preparation:

Clear, grub and strip topsoil to remove trees, vegetation, roots, or other unsuitable material from areas under the embankment or any structural works related to the trap.

Clear and grub the area of most frequent inundation (measured from the top of the outlet control structure) of all brush and trees to facilitate clean out and restoration.

Install sediment controls for contributing areas. Install sediment controls to trap sediment before it enters and leaves the sediment trap construction site. Stabilize the trap in accordance with the engineered design, stabilize the spoil and borrow areas, and other disturbed areas in accordance with the temporary seeding or permanent seeding, whichever is applicable.

Maintenance:

Inspect the temporary sediment trap at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine conditions in the trap. Clean the trap of sediments when sediment accumulation exceeds one half of the

wet storage capacity of the basin or when the depth of available pool is reduced to 18 inches, whichever is achieved first. Sediment levels shall be marked within the sediment storage area by stakes or other means showing the threshold elevation for sediment clean out. Prior to the removal of sediments, dewater the basin through pumping or other means to expose previously submerged sediments. Do not allow accumulated sediment to flush into the drainageway. Stockpile the sediment in such a manner that it will not erode from the site or into a wetland, watercourse or other sensitive area.

2.5 Control Dewatering Practices

Dewatering:

BMP Description/Installation: In the event groundwater is encountered during construction, dewatering may be required through the use of sump pumps. Installation of sumps shall follow the requirements of the sump pit. The purpose of this practice is to remove excessive water from excavations in a manner that improves the quality of the water being pumped. Pumped water shall be discharged to an approved filtering system.

Construction Specifications:

Sump Pit

1. A perforated vertical standpipe shall be placed in the center of the pit to collect filtered water. The standpipe shall be slotted or perforated corrugated metal or PVC pipe and its diameter and number of perforations shall be compatible with the pump size being used.
2. Water is then to be pumped from the center of the pipe to a suitable discharge area.
3. The pit shall be filled with crushed stone or gravel no smaller than CT DOT #67 size nor larger than CT DOT #3 size. Crushed stone shall extend a minimum of 12" below the bottom of the standpipe.
4. Discharge of water pumped from the standpipe shall be to a suitable practice such as a sediment filter bag, or an approved dewatering settling basin.
5. If water from the sump pit will be pumped directly to a storm drainage system, filter fabric shall be wrapped around the standpipe to ensure clean water discharge.
6. It is recommended that 1/4-to-1/2-inch hardware cloth wire be wrapped around and secured to the standpipe prior to attaching the filter fabric. This may increase the rate of water seepage into the standpipe.

Maintenance

1. Replace the sump pit if the pit and filter fabric plugs with sediment.

2.6 Slope Protection:

Erosion Control Blanket:

BMP Description: Erosion control blankets shall be used to provide stabilization on steep (3H:1V or greater) interior side slopes and immediate stabilization for benches. The blanket shall cover the entire graded side slopes. The side slopes shall be seeded and

mulched before the blanket is applied. The blanket shall be installed in a 12-inch wide by 6-inch deep trench in the upside of the slope, and stapling the leading edge of the blanket in the trench. The blanket shall be rolled down the slope slowly to maintain soil contact and stapled at 12-inch intervals. The blankets shall be overlapped a minimum of 12 inches and stapled at the overlapping edge.

Installation Schedule: The erosion control blankets shall be installed immediately after grading of the side slopes and benches is complete.

Construction Specifications:

1. Biodegradable rolled erosion control products (RECPs) are typically composed of jute fibers, curled wood fibers, straw, coconut fiber, or a combination of these materials. In order for an RECP to be considered 100% biodegradable, the netting, sewing or adhesive system that holds the biodegradable mulch fibers together must also be degradable.
 - a. Jute is a natural fiber that is made into a yarn that is loosely woven into a biodegradable mesh. It is designed to be used in conjunction with vegetation and has longevity of approximately one year. The material is supplied in rolled strips, which should be secured to the soil with u-shaped staples or stakes in accordance with manufacturers' recommendations.
 - b. Excelsior (curled wood fiber) blanket material should consist of machine produced mats of curled wood excelsior with 80 percent of the fiber 6 in. Or longer. The excelsior blanket should be of consistent thickness. The wood fiber must be evenly distributed over the entire area of the blanket. The top surface of the blanket should be covered with a photodegradable extruded plastic mesh. The blanket should be smolder resistant without the use of chemical additives and should be non-toxic and non-injurious to plant and animal life. Grade and shape the area of installation.
2. Remove all rocks, clods, vegetation or other obstructions so that the installed blankets or mats will have complete, direct contact with the soil.
3. Prepare seedbed by loosening 2 to 3 in. Of topsoil.
4. Seed the area before blanket installation for erosion control and revegetation.
5. Seeding after mat installation is often specified for turf reinforcement application. When seeding prior to blanket installation, all check slots and other areas disturbed during installation must be re-seeded. Where soil filling is specified, seed the matting and the entire disturbed area after installation and prior to filling the mat with soil.
6. Fertilize and seed in accordance with seeding specifications or other types of landscaping plans. When using jute matting on a seeded area, apply approximately half the seed before laying the mat and the remainder after laying the mat.
7. Check slots are made of glass fiber strips, excelsior matting strips or tight folded jute matting blanket or strips for use on steep, highly erodible watercourses. The check slots are placed in narrow trenches 6 to 12 in. Deep across the channel and left flush with the soil surface. They are to cover the full cross section of designed flow.
8. Before laying the matting, all check slots should be installed and the friable seedbed made free from clods, rocks, and roots. The surface should be compacted and finished according to the requirements of the manufacturer's recommendations.

9. Anchor and install as detailed per manufacturer requirements.

Maintenance:

1. Areas where erosion is evident shall be repaired and BMPs reapplied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require reapplication of BMPs
2. If washout or breakage occurs, re-install the material after repairing the damage to the slope or channel.
3. Make sure matting is uniformly in contact with the soil.
4. Check that all the lap joints are secure, the staples are flush with the ground, and that disturbed areas are seeded.

Inspection:

1. Inspect erosion control blankets prior to forecast rain, daily during extended rain events, after rain events, weekly during the rainy season, and at two-week intervals during the non-rainy season.

2.7 Stabilize Soils:

Temporary stabilization:

BMP Description: Hydromulching or mechanical seeding shall be used on slopes where construction will cease for more than 14 days and over the winter months to stabilize erodible materials. Straw mulch and wood fiber shall be mixed with a tackifier and applied uniformly by machine with an application rate of 2 tons (100-200 bales) per acre. The contractor shall use crimping equipment to bind the mulch to the soil if the tackifier is not effective. Netting shall be used on small areas with steep slopes. In areas where hydromulching is inaccessible, straw mulch shall be applied by hand at the same application rate. Temporary seeding shall be used on any area where construction activity is suspended for more than twenty-one days to stabilize erodible materials. Seed mixture for temporary seeding shall be annual rye or winter rye, depending on the time of seeding for temporary stabilization.

Installation Schedule: Portions of the site where construction activities will temporarily cease for more than 14 days shall be stabilized with mulch. Where construction activities will temporarily cease for more than 21 days it shall be temporarily seeded. Winter stabilization shall be provided between November 25 and March 30.

Maintenance and Inspection: Mulched areas shall be inspected weekly to ensure that adequate coverage is provided. Repairs shall be conducted as needed.

Permanent Stabilization:

Permanent seeding shall be applied immediately after the final design grades are achieved at the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated shall be removed and hauled off site to a licensed landfill facility. Construction debris, trash, and temporary BMP's shall also be removed and any areas disturbed during removal will be seeded immediately.

Seedbed preparation:

1. Topsoil shall be spread over final graded areas at a minimum depth of four inches. Topsoil shall inclusively mean a soil meeting one of the following soil textural classes established by the United States Department of Agriculture classification system based upon the proportion of sand, silt, and clay size particles after passing a 2 millimeter (mm) sieve and subjected to a particle size analysis:
 - 1.1. Loamy sand, including coarse, loamy fine, and loamy very fine sand, sandy loam, including coarse, fine and very fine sandy loam, loam, or silt loam with not more than 60% silt;
 - 1.2. Containing not less than 6% and not more than 20% organic matter as determined by loss-on-ignition of oven dried samples dried at 105 degrees centigrade;
 - 1.3. Possessing a ph range of 6.0-7.5, except if the vegetative practice being used specifically requires a lower ph, then ph may be adjusted accordingly;
 - 1.4. Having soluble salts not exceeding 500 ppm;
 - 1.5. And that is loose and friable and free from refuse, stumps, roots, brush, weeds, frozen particles, rocks, and stones over 1.25 inches in diameter, and any material that will prevent the formation of a suitable seedbed or prevent seed germination and plant growth.
 - 1.6. A minimum of twelve inches of mineral soils must be provided between rock surfaces and the topsoil layer.
2. The seedbed shall be free of rocks, woody debris and other objectionable material.
3. Fertilizer shall be applied to the seedbed as needed. Fertilizers shall be commercial type of uniform composition, free-flowing and conforming to applicable state and federal laws. Choose native species that are adapted to local weather and soil conditions wherever possible to reduce water and fertilizer inputs and lower maintenance overall.
4. Topsoil shall be loosened by raking, tilling or other suitable methods.

Final stabilization shall be completed on portions of the site where construction activities have permanently ceased but no later than 14 days after construction ceases.

All seeded areas shall be inspected weekly during construction activities for failure until a dense cover of vegetation has been established. If failure is noticed on the seeded area, the area shall be reseeded, fertilized and mulched immediately. After construction is complete at the site permanent stabilization measures shall be monitored until final stabilization is reached.

Seed Mixture for Upland Areas

	%
Kentucky Bluegrass	45
Chewings Red Fescue	45
Perennial Ryegrass	<u>10</u>
	100

Sow seed at a total rate of 45 pounds per acre.

Seed Mixture For 3H:1V Sloped Areas (No Mowing)

Apply New England Conservation/Wildlife Seed Mix by New England Wetlands Plants, Inc., preferably by hydroseeding, at a minimum seeding rate of 25 pounds per acre.

<u>Botanical Name</u>	<u>Common Name</u>
Elymus Virginicus	Virginia Wild Rye
Schizachyrium Scoparium	Little Bluestem
Andropogon Gerardii	Big Bluestem
Festuca Rubra	Red Fescue
Sorghastrum Nutans	Indian Grass
Panicum Virgatum	Switch Grass
Chamaecrista Fasciculata	Partridge Pea
Desmodium Canadense	Showy Tick Trefoil
Asclepias Tuberosa	Butterfly Milkweed
Bidens Frondosa	Beggar Ticks
Eupatorium Purpureum (Eutrochium Maculatum)	Purple Joe Pye Weed
Rudbeckia Hirta	Black Eyed Susan
Aster Pilosus (Symphyotrichum Pilosum)	Heath (Or Hairy) Aster
Solidago Juncea	Early Goldenrod

Seed Mixture For Stormwater Basins Below Low Level Outlet

Apply New England Wetmix by New England Wetlands Plants, Inc., preferably by hydroseeding, at a minimum seeding rate of 18 pounds per acre. This mix is comprised of the wetland species most likely to grow in created/restored wetlands and should produce more than 75% ground cover in two full growing seasons. The wetland seeds in this mix can be sown by hand, with a hand held spreader, or hydro-seeded on large or hard to reach sites. Lightly rake to insure good seed to soil contact. Seeding can take place on frozen soil, as the freezing and thawing weather of late fall and late winter will work the seed into the soil. If spring conditions are drier than usual watering may be required. If sowing during the summer months supplemental watering will likely be required until germination. A light mulch of clean, weed free straw is recommended.

<u>Botanical Name</u>	<u>Common Name</u>
Carex Vulpinoidea	Fox Sedge
Carex Lurida	Lurid Sedge
Carex Scoparia	Blunt Broom Sedge
Verbena Hastata	Blue Vervain
Poa Palustris	Fowl Bluegrass

Carex Lupulina	Hop Sedge
Scirpus Atrovirens	Green Bulrush
Eleocharis Palustris	Creeping Spike Rush
Carex Crinita	Fringed Sedge
Juncus Effusus	Soft Rush
Eupatorium Maculatum	Spotted Joe Pye Weed
Glyceria Canadensis	Rattlesnake Grass
Aster Puniceus	Swamp Aster
Iris Versicolor	Blueflag
Asclepias Incarnata	Swamp Milkweed
Mimulus Ringens	Square Stemmed Monkey Flower

Seed Mixture For Stormwater Basins Above Low Level Outlet

Apply New England Erosion Control/Restoration for Detention Basins and Moist Sites by New England Wetlands Plants, Inc., preferably by hydroseeding, at a minimum seeding rate of 35 pounds per acre. After sowing, lightly rake, roll or cultipack to insure good seed to soil contact. Best results are obtained with a spring or late summer seeding. Late fall and winter dormant seeding requires an increase in the application rate. A light mulching of clean, weed-free straw is recommended.

<u>Botanical Name</u>	<u>Common Name</u>
Elymus Riparius	Riverbank Wild Rye
Festuca Rubra	Creeping Red Fescue
Andropogon Gerardii	Little Bluestem
Panicum Virgatum	Switch Grass
Agrostis Perennans	Upland Bentgrass
Bidens Cernua	Nodding Bur Marigold
Eupatorium Fistulosum/	Hollow-Stem Joe Pye Weed
Eutrochium Fistulosum	
Aster Novae-Angliae	New England Aster
Eupatorium Perfoliatum	Boneset
Verbena Hastata	Blue Vervain
Juncus Effusus	Soft Rush
Scirpus Cyperinus	Wool Grass

The recommended seeding dates are: April 1-June 15 and August 15-October 1. The contractor shall water the seeded areas to ensure the growth of a dense stable surface.

End of Section 2

SECTION 3

GOOD HOUSEKEEPING BMPs

3.1 Good Housekeeping BMPs

1. Material Handling and Waste Management:

Waste Materials:

All waste materials shall be collected and disposed of into metal waste dumpsters in the materials storage area. Dumpsters shall have a secure tight lid, be placed away from storm water drains and structures, and shall meet all federal, state, county, and local regulations. Only trash and construction debris shall be placed in the dumpsters. Construction materials shall not be buried on site. All personal shall be instructed, during tailgate training sessions, regarding the correct disposal of trash and construction debris. The individual who manages day-to-day site operations shall be responsible for seeing that these practices are followed.

Installation Schedule: Trash dumpsters shall be installed when the materials storage area has been established.

Maintenance and Inspection: The dumpsters shall be inspected weekly and immediately after storm events. The dumpster shall be emptied weekly or more frequently if needed, and taken to the appropriate landfill.

Hazardous Waste Materials:

BMP Description: All hazardous waste materials including oil filters, petroleum products, paint, and equipment maintenance fluids shall be stored in structurally sound and sealed shipping containers, within the materials storage area. Hazardous waste materials shall be stored in appropriate and clearly marked containers and segregated from other non-waste materials. Secondary containment shall be provided for all waste materials in the hazardous materials storage area and shall consist of commercially available spill pallets. Additionally, all hazardous waste materials shall be disposed of in accordance with federal, state, county, and local regulations. Hazardous waste materials shall not be disposed of into the on-site dumpsters. All personnel shall be instructed, during tailgate training sessions, regarding proper procedures for hazardous waste disposal. The individual who manages day-to-day site operations shall be responsible for seeing that these procedures are followed.

Installation Schedule: Shipping containers used to store hazardous waste materials shall be installed once the site materials storage area has been installed.

Maintenance and Inspection: The hazardous waste materials area shall be inspected weekly and after storm events. The storage area shall be kept clean, organized and equipped with ample cleanup supplies for the materials being stored. Material safety datasheets, material inventory, and emergency contact numbers shall be maintained in the office trailer.

Sanitary Waste:

BMP Description: Portable toilets, located in the staging area, shall be provided at the site throughout the construction phase. The toilets shall be anchored and located away from concentrated drainage flow paths and shall have collection pans underneath as secondary containment.

Installation schedule: The portable toilets shall be set up at the site when the staging area is complete.

Maintenance and Inspection: Sanitary waste shall be collected and inspected weekly for evidence of leaking holding tanks.

Recycling:

BMP Description: Wood pallets, cardboard boxes, and other recyclable construction scraps shall be disposed of in a designated dumpster for recycling. The dumpster shall have a secure watertight lid, be placed away from stormwater conveyances and drains and meet all local and state solid-waste management regulations. Only solid recyclable construction scraps from the site shall be deposited in the dumpster. All personnel shall be instructed, during tailgate training sessions, regarding the correct procedure for disposal of recyclable construction scraps. Notices that state these procedures shall be posted in the office trailer, and the individual who manages day-to-day site operations shall be responsible for seeing that these procedures are followed.

Installation Schedule: Designated recycling dumpsters shall be installed once the staging area has been established.

Maintenance and Inspection: The recycling dumpster shall be inspected weekly. The recycling dumpster shall be emptied when full and taken to an approved recycling center by the contractor. If recyclable construction wastes are exceeding the dumpster's capacity, the dumpsters shall be emptied more frequently.

Designate Washout Areas:

Concrete Washout

BMP Description: A designated temporary, above-grade concrete washout area shall be constructed for concrete washout. The washout area shall be lined with plastic sheeting at least 10 mils thick and free of holes or tears. Concrete pours shall not be conducted during or before an anticipated storm event. Concrete mixer trucks and chutes shall be washed in the designated washout area or concrete wastes shall be properly disposed of off-site. When the temporary washout area is no longer needed for the construction project, the hardened concrete and materials used to construct the area shall be removed and disposed of in accordance with all applicable local, state and federal regulations, and the area shall be stabilized.

Installation schedule: The washout area shall be constructed before concrete pours occur at the site.

Establish Proper Construction Material Staging Areas:

Materials Storage Area:

BMP Description: Construction equipment and maintenance materials shall be stored at the combined staging area and materials storage areas. This area shall be located in an area designated at the start of construction. Sediment fence shall be installed around the perimeter of the area. A watertight shipping container shall be used to store hand tools, small parts, and other construction materials. Non-hazardous materials such as packaging material (wood, plastic, and glass), and construction scrap material (brick, wood, steel, metal scraps, and pipe cuttings) shall be stored in a separate covered storage facility adjacent to the shipping container. All hazardous-waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids shall be stored in structurally sound and sealed containers.

Installation Schedule: The materials storage area shall be installed immediately and before any grading occurs or before any infrastructure is constructed at the site.

Maintenance and Inspection: The storage area shall be inspected weekly. The storage area shall be kept clean, organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners shall be repaired or replaced as needed to maintain proper function.

Establish proper equipment/vehicle fueling and maintenance practices:

Vehicle/Equipment Fueling and Maintenance:

BMP Description: Several types of vehicles and equipment shall be used on-site throughout the project, including graders, scrapers, excavators, loaders, paving equipment, rollers, trucks and trailers, and backhoes. Only minor equipment/vehicle fueling and maintenance shall be performed on-site. All vehicle fueling activity shall occur in the staging area. Both of these proposed activities are to be situated so that drainage facilities or water courses located in the area are not at risk from potential infiltration. All equipment fluids generated from maintenance activities shall be disposed of into designated drums stored on spill pallets in accordance with Part 3.1. Absorbent, spill-cleanup materials and spill kits shall be available at the combined staging and materials storage area. Drip pans shall be placed under all equipment receiving maintenance and vehicles and equipment parked overnight. Fuel shall be delivered to the site on an as needed basis by a fuel delivery service. Fueling of equipment shall only occur in designated fueling areas. Non-emergency vehicle maintenance including washing is prohibited on site.

Installation Schedule: BMPs implemented for equipment and vehicle maintenance and fueling activities shall begin at the start of the project.

Maintenance and Inspection: Inspect equipment/vehicle storage areas and fuel tank weekly. Vehicles and equipment shall be inspected on each day of use. Leaks shall be

repaired immediately, or the problem vehicle(s) or equipment shall be removed from the project site. Keep ample supply of spill-cleanup materials on-site and immediately clean up spills and dispose of materials properly.

Allowable non-stormwater discharges and control equipment/vehicle washing:

BMP Description: All equipment and vehicle washing shall be performed off-site at an approved location. (See section 3.2 below for additional information related to non-storm water discharges)

2. Spill Prevention and Control Plan:

Spill Prevention and Control Procedures:

BMP Description:

- a. Employee Training: All employees shall be trained via biweekly tailgate sessions, as detailed in Section 6, Part 6.3.
- b. Dumping of oil or other deleterious materials on the ground is forbidden. The applicant shall provide a means of catching, retaining and properly disposing of drained oil, removed oil filters, or other deleterious material from equipment used on site. Major vehicle maintenance shall be completed off site. All oil spills shall be immediately reported to the department of energy and environmental protection/hazardous materials office. Failure to do so may result in the imposition of fines under the applicable Connecticut General Statutes.
- c. Vehicle Washing: No vehicle washing is permitted on site.
- d. Vehicle Maintenance: Vehicles and equipment shall be maintained off-site. All vehicles and equipment including subcontractor vehicles shall be checked for leaking oil and fluids. Vehicles leaking fluid shall not be allowed on-site. Drip pans shall be placed under all vehicles and equipment that are parked overnight.
5. Vehicle Fueling: Refueling of vehicles and equipment shall be conducted in a designated laydown area, at least 100-feet from wetlands or drainage structures. The location within the laydown area shall be comprised of an impervious surface without access to any subsurface drainage structures. A spill cleanup kit shall be maintained at the fueling location.
6. Hazardous Material Storage: Hazardous materials including but not limited to fuel, oil and petroleum products and solvents will be stored in an approved covered storage unit and provided with secured secondary containment with an impervious floor in accordance with state, federal and municipal regulations.
7. Material Safety Data Sheets, a material inventory, and emergency contact information shall be maintained on-site.
8. Spill Kits: Spill kits will be stored within the material storage area, concrete washout areas, and designated fueling area.
9. Spills: All spills will be cleaned up immediately upon discover. Spent absorbent materials and rags shall be placed in a sealed drum and will be hauled off-site immediately after the spill is cleaned up for disposal at the appropriate landfill. Spills or releases of hazardous chemicals or petroleum products shall be promptly reported to CT DEEP at 1-860-424-3338 and the National Response Center 1-800-424-8802.
10. In accordance with Connecticut General Statutes the contractor shall within 24 hours of verbal notification complete a written "Report of Petroleum or Chemical Product

Discharge, Spillage or Release” and mail it to: CT DEEP, Bureau of Waste Management, 79 Elm Street, Hartford, CT, 06106-5127.

Installation Schedule: The spill prevention and control procedures shall be implemented once construction begins on-site.

Maintenance and Inspection: All personnel shall be instructed, during tailgate training sessions, regarding the correct procedures for spill prevention and control. The individual who manages day-to-day site operations shall be responsible for seeing that these procedures are followed.

3.2 Allowable Non-Stormwater Discharge Management

Items include: Discharges from firefighting activities, fire hydrant flushing, landscape watering, water used to control dust, and dewatering of foundation and utility trenches. All erosion control practices shall be followed by the contractor in connection with these activities.

Irrigation waters shall be sprayed onto landscape areas only. The sprinklers shall have low flow rates and increased watering time. The irrigation area shall be inspected regularly for excess watering and if needed, adjustments shall be made.

Any changes in construction activities that produce other allowable non-storm water discharges shall be identified, and the SPCP shall be amended and the appropriate erosion and sediment control shall be implemented.

End of Section 3

SECTION 4

POST-CONSTRUCTION BMPs

4.1 Stormwater Management Plan

1. Pollution Prevention Team

The Pollution Prevention Team shall consist of the property owner (Rob Hohlfelder). The Pollution Prevention Team shall be responsible for post-construction maintenance of the proposed drainage swales, culvert, stormwater basins and level spreaders.

2. Maintenance and Inspection

Every precaution shall be used during construction to prevent and minimize the siltation/sedimentation of the proposed stormwater management features. Erosion control measures shall be installed between all upgradient work and the proposed stormwater management features and shall be maintained until the slopes are fully stabilized.

During construction and immediately post construction, the contractor shall be responsible for site inspection and maintenance to assure proper performance of the stormwater management system. Inspecting and maintaining shall include, at a minimum, the following:

- Inspection of grass/vegetated filter strips between the edge of traffic bound gravel surface and stormwater management features. Remove any litter/debris and accumulated sand/sediment that prevents runoff from flowing toward this area, revegetate if necessary to provide stabilization. Erosion control blanket shall be installed on all 3H:1V and steeper slopes.
- Inspection of stormwater management features, remove accumulated sediment from bottom of basins/depressions. Seed with specified seed mixes and ensure a healthy stand of vegetation is established.
- Inspection of road and all driveways, remove erodible sediment and any litter/debris.

After installation of the stormwater management features and following construction, the Owner shall be responsible for inspecting and maintaining the stormwater management features to insure proper performance of the stormwater management system. For the first 3 months after construction, these inspections shall be performed after any major storm event (greater than 0.5 inches of rain in a 24-hour period). After 3 months, inspections shall be performed semi-annually, preferably in the spring and fall. Inspection and maintenance shall include, at a minimum but not limited to, the following:

- Inspect road and driveways and remove erodible sediment and repair with specified aggregate top course as required. If sediment has mounded along the edge of road or driveways hindering stormwater flow toward the vegetated swales or filter strips, regrade as necessary to allow sheet flow to these areas. Revegetate any disturbed areas that occur during this maintenance procedure to provide permanent stabilization.
- Inspect grass/vegetated filter strip between the paved areas and the stormwater management features. Remove any litter/debris and accumulated sand/sediment that prevents runoff from flowing into these areas. Revegetate any disturbed

areas to provide permanent stabilization. Remove and replace or revegetate any areas that do not have a suitable stand of grass or any scoured areas.

- Inspect level spreader for signs of erosion and collected sediment within the basin and signs of downgradient erosion. Repair any eroded areas with topsoil, seed mix, and erosion control blanket within the basin. Repair eroded areas downgradient of the spillway curb with topsoil, seed mix and erosion control blanket or 12" of CT DOT special rip rap on non-woven filter fabric. Remove and dispose of collected sediment.
- Inspect stormwater basins for signs of erosion and collected sediment within the basin, the health of the wetland vegetation and signs of downgradient erosion. Repair any eroded areas with topsoil, seed mix, and erosion control blanket within the basin. Repair eroded areas downgradient of the spillway curb with topsoil, seed mix and erosion control blanket or 12" of CT DOT special rip rap on non-woven filter fabric. Remove and dispose of collected sediment.
- The emergency overflow spillways shall be inspected semi-annually for signs of scour/erosion. If scour has occurred, the rip rap and gravel shall be replaced and the spillway shall be evaluated for possible modifications to prevent future scour.
- Rip rap scour holes shall be inspected semi-annually for signs of scour and accumulation of debris and sediment. If scour has occurred the rip rap and gravel shall be replaced. Debris shall be disposed of as required.

3. Spill or Accidental Discharge

Comply with State and Federal regulations to contain and clean up any spill or disposal or discharge and dispose of materials at an approved facility.

End of Section 4

SECTION 5

INSPECTIONS AND MAINTENANCE

5.1 Inspections

1. Inspection Personnel:

Plan Implementation Inspections:

Plan implementation inspections shall be completed by a qualified soil erosion and sediment control professional or a qualified professional engineer. The inspector shall be someone who:

- (a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and
- (b) has no ownership interest of any kind in the project for which the registration is being submitted.

Routine Inspections:

Routine inspection shall be completed by a qualified inspector provided by the Contractor. The qualified inspector shall be someone who:

Has (1) a professional license or certification by a professional organization recognized by the commissioner related to agronomy, civil engineering, landscape architecture, soil science, and two years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (2) five years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (3) certification by the Connecticut Department of Transportation (DOT).

2. Inspection Schedule and Procedures:

Plan Implementation Inspections:

Within the first 30 days following commencement of the construction activity on the site, the permittee shall contact: (1) the appropriate District; or (2) a qualified soil erosion and sediment control professional or a qualified professional engineer to inspect the site. The site shall be inspected at least once and no more than three times during the first 90 days to confirm compliance with the general permit and proper initial implementation of all controls measures designated in the Plan for the site for the initial phase of construction.

Routine Inspections:

Inspection procedures for these routine inspections shall be addressed and implemented in the following manner:

- (i) 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; all erosion and sedimentation control measures; all structural control measures; soil stockpile areas; washout areas and locations where vehicles enter or exit the site. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to the receiving waters. Locations where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking. For storms that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, an 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. Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.

- (ii) The qualified inspector(s) shall 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).
- (iii) A report shall be prepared and retained as part of the Plan. This report shall summarize: the scope of the inspection; name(s) and qualifications of personnel making 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 Plan; a description of the stormwater discharge(s) from the site; 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" section (subsection 5(i)) of 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 Plan and permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial 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 Plan 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) days and incorporated into a revised Plan within ten (10) 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.

5.2 Maintenance of Controls

Maintenance Procedures: See Sections 2 and 3.

Maintenance of erosion and sediment controls shall be completed in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control (2024). The Contractor shall maintain a copy of the Guidelines on-site or on-line at <https://portal.ct.gov/DEEP/Water/Soil-Erosion-and-Sediment-Control-Guidelines/Guidelines-for-Soil-Erosion-and-Sediment-Control> and refer to the appropriate maintenance procedures that shall be utilized during construction. A summary of the maintenance requirements for the project is provided below.

During construction, all erosion and sediment control measures shall be maintained in proper working order. Disturbed areas shall be kept to a minimum and shall only take place where immediately required to further construction. It is desirable from an erosion prevention perspective to minimize disturbed areas. Final grading and seeding shall take place as soon as practical.

All erosion and sediment control measures shall be repaired, cleaned and/or replaced as necessary throughout the project in order to maintain complete and integral erosion and sediment control protection. Once in place, all erosion and sediment control measures are to remain in place in proper condition and be continuously maintained until final site stabilization has been completed. Following such permanent stabilization, the erosion and sediment control measures shall be dismantled, removed, and disposed of in an approved manner. Additional erosion and sediment control measures beyond those shown on the plans or prescribed herein shall be put in place, whenever necessary, to address field conditions and/or as ordered by the Engineer or the municipal zoning official.

No soil, fill or other materials shall be deposited in surrounding inland wetlands unless permitted by the local regulatory authority.

All temporary storage and/or stockpile areas shall be properly stabilized to prevent erosion and suitably contained to prevent turbid runoff.

During construction, the site contractor shall be responsible for site inspection and maintenance to assure proper performance of erosion control measures. Inspection and maintenance shall include, at a minimum, the following:

- Inspect all wood chip berms, sediment fence and other erosion control measures. Repair or replace any damaged portion in order to insure its proper and effective operation. Remove accumulated sediment if required (greater than 4" depth).
- Inspect all stockpiles. Repair or replace any damaged portion of erosion control measures surrounding these areas in order to prevent downgradient sedimentation.
- Inspect grass restored areas. Revegetate any eroded or disturbed areas to provide permanent stabilization. Reseed and/or revegetate any areas that do not have a suitable stand of grass or any scoured areas to provide permanent stabilization.

- Inspect anti-tracking pads. Remove and dispose of pad and replace if pad is no longer functioning efficiently or accumulated sediment is to a depth of 2" below the stone surface.
- Inspect downgradient areas of all stormwater discharges and construction areas. Stabilize any eroded areas if found.
- Inspect roadways adjacent to the site daily. Sweep or vacuum to remove visible accumulated sediment.

End of Section 5

SECTION 6

RECORDKEEPING AND TRAINING

6.1 Recordkeeping

For a period of at least five years from the date that construction is complete, the permittee shall retain copies of the Plan and all reports required by the general permit, and records of all data used to complete the registration for this general permit, unless the commissioner specifies another time period in writing. Inspection records must be retained as part of the Plan for a period of five (5) years after the date of inspection.

The permittee shall retain an updated copy of the Plan required by the general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed.

The following is a list of records that should be kept at the project site available for inspectors to review:

- Signed and Certified Stormwater Pollution Control Plan.
- Inspection Reports (See Appendix E).
- Log of Corrective Actions, Changes and Updates to SPCP (See Appendix F).
- Grading and Stabilization Activities Log (See Appendix G).

6.2 Log of Changes to the SWPPP

Log of changes and updates to the SPCP

See Appendix F for the SPCP Amendment Log

6.3 Training

General stormwater and BMP awareness training for staff and subcontractors can be found in the 2024 Connecticut Guidelines for Soil Erosion and Sediment Control. Every person working on the site must be trained on a variety of topics, including good housekeeping practices, best management practices, materials management practices, spill control prevention, and spill response procedures. A site walk through of the site should be conducted to review the stormwater sampling locations, and potential sources of stormwater impacts. On-going site issues should be discussed with employees as they occur. Monthly tool box talks should be held with employees to review relevant site issues.

See Appendix I for the Employee Training Log

Detailed training for staff and subcontractors with specific stormwater responsibilities can be found in the National Menu of Stormwater Best Management Practices by the U.S.

Environmental Protection Agency's National Pollutant Discharge Elimination System:
< <http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm>>

Individual(s) Responsible for Training: Contractor Personnel

All individuals working on site shall sign the SPCP Training Log included in Appendix I after completion of training. All subcontractors working on site shall sign the Subcontractor Certification/Agreement after completion of training included in Appendix H.

End of Section 6

SECTION 7

FINAL STABILIZATION AND PROJECT CLOSEOUT

7.1 Final Stabilization

Permanent seeding should be applied immediately after the final design grades are achieved at the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated shall be removed and hauled off site to a licensed landfill facility. Construction debris, trash, and temporary BMP's shall also be removed and any areas disturbed during removal shall be seeded immediately.

Seedbed Preparation:

1. Topsoil shall be spread over final graded areas at a minimum depth of four inches.
2. The seedbed shall be free of rocks, woody debris and other objectionable material.
3. Fertilizer shall be applied to the seedbed as needed. Fertilizers shall be commercial type of uniform composition, free-flowing and conforming to the applicable State and Federal laws. Choose native species that are adapted to local weather and soil conditions wherever possible to reduce water and fertilizer inputs and lower maintenance overall.
4. Topsoil shall be loosened by raking, tilling or other suitable methods.

Refer to the Site Plans for proposed vegetation locations and plant/seed lists. See the Vegetative Soil Cover guidelines located in Chapter 5 of the 2024 Connecticut Guidelines for Soil Erosion and Sediment Control* for additional guidance and specifications relating to seeding, fertilizer, mulching, and sodding.

Final stabilization should be installed on portions of the site where construction activities have permanently ceased but no later than 14 days after construction ceases.

All seeded areas shall be inspected weekly during construction activities for failure until a dense cover of vegetation has been established. If failure is noticed on the seeded area, the area shall be seeded, fertilized and mulched immediately. After construction is complete at the site permanent stabilization measures shall be monitored until final stabilization is reached.

Responsible Staff: Contractor Personnel

7.2 Project Closeout

A project shall be considered complete after all post-construction measures are installed, cleaned and functioning and the site has been stabilized for at least three months following the cessation of construction activities. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed for all phases.

(1) Post-Construction Inspection

Once all post-construction stormwater measures have been installed in accordance with the Site Plans and cleaned of any construction sediment or debris, the registrant shall contact the appropriate a qualified soil erosion and sediment control professional and/or a qualified professional engineer, as appropriate, who will inspect the site to confirm compliance with these post-construction stormwater measures. This person(s) shall not be an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the permittee and shall have no ownership interest of any kind in the project for which the site's registration was submitted.

(2) Final Stabilization Inspection

For all projects, once the site has been stabilized for at least three months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

A Notice of Termination (NOT) shall be submitted after the Final Stabilization Inspection has been completed. The termination form shall be filed with the Commissioner at the following address:

CENTRAL PERMITS PROCESSING UNIT
BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

See Appendix J for the Notice of Termination Form.

End of Section 7

SECTION 8

CERTIFICATION AND NOTIFICATION

Permittee:

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 gathered and evaluated 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 submitted 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.

Name: _____ Title: _____

Signature: _____ Date: _____

Preparer:

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 gathered and evaluated 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 submitted 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.

Name: _____ Title: _____

Signature: _____ Date: _____

End of Section 8

SPCP APPENDICES

Appendix A – General Location Map

Appendix B – Site Development Plan

Appendix C – NDDDB Correspondence

Appendix D – SHPO Correspondence

Appendix E – Inspection Reports

Appendix F – Log of Corrective Actions, Changes and Updates to SPCP

Appendix G – Grading and Stabilization Activities Log

Appendix H – Subcontractor Certifications/Agreements

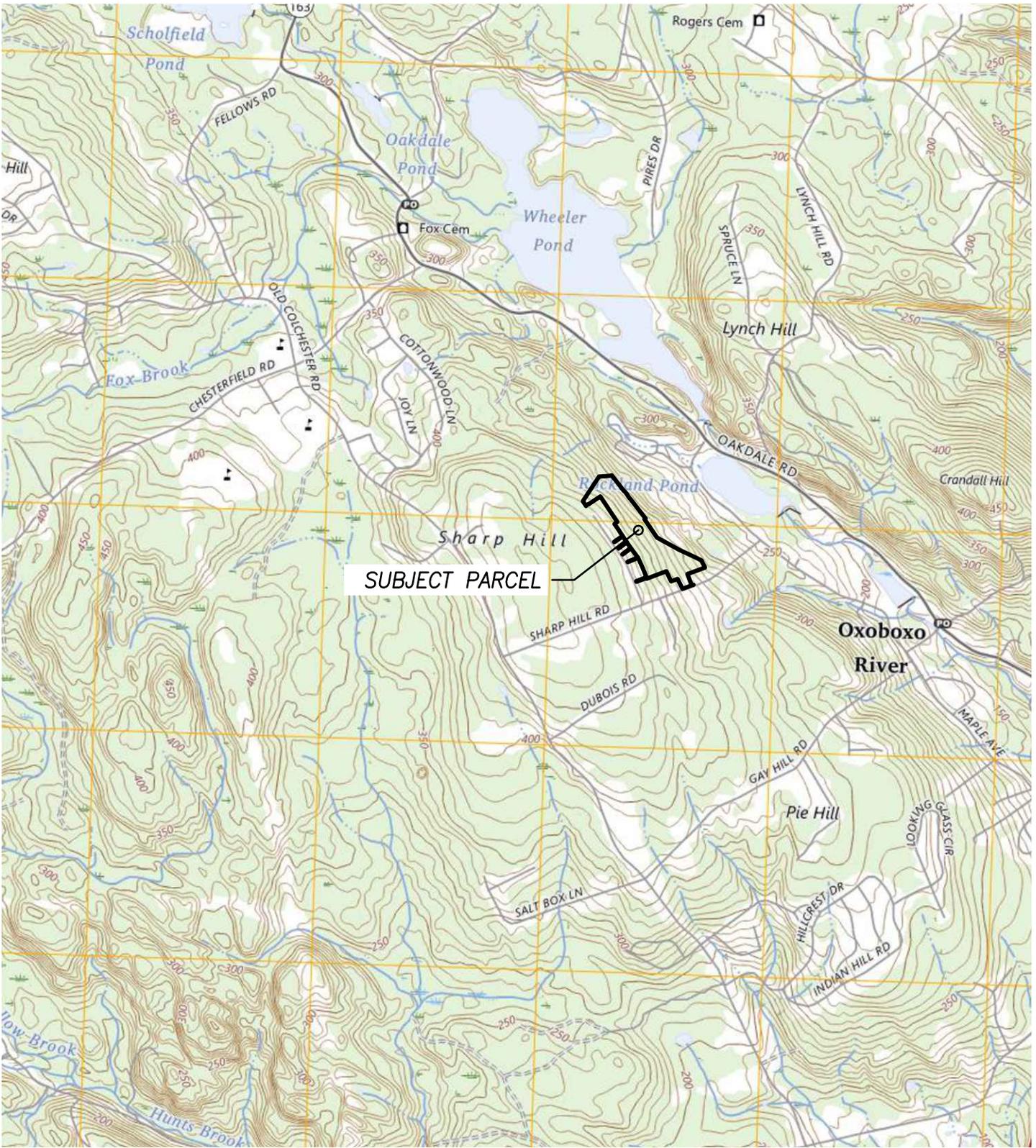
Appendix I – SPCP Training Log

Appendix J – Notice of Termination Form

Appendix K – Construction General Permit Conditions

APPENDIX A

GENERAL LOCATION MAP



SUBJECT PARCEL

BOUNDARIES

CIVIL ENGINEERING LAND SURVEYING LAND USE PLANNING SOIL SCIENCE
 Boundaries LLC
 179 Pachaug River Drive, Griswold, CT 06351
 T 860.376.2006 | www.boundariesllc.net



General Location Map
 (Palmertown Quadrangle)
 Mt. Kineo Builders, LLC
 47 Sharp Hill Road - Montville, CT

SCALE: 1"=2,000'

DATE: March 2026

JOB NO. 24-3514

Attachment A.1

APPENDIX B

SITE DEVELOPMENT PLAN

<u>Sheet No.</u>	<u>Sheet Title</u>
6	Grading Plan
7	Drainage & Stormwater Management Plan
8	Basin X-Section
10	Soil Erosion & Sediment Control Plan
13	Roadway Plan & Profile
14	Soil Erosion & Sediment Control Narrative and Details
16	Drainage Details
18	Stormwater Management Details
Fig. 2	Pre-Development Drainage Area Map
Fig. 3	Post-Development Drainage Area Map

GENERAL NOTES:

1. THE APPLICANT IS MT KINEO BUILDERS, LLC WITH A MAILING ADDRESS OF P.O. BOX 246, WEST MYSTIC, CT 06388. THE PROPERTY OWNER IS R&N HOLDING COMPANY WITH A MAILING ADDRESS OF P.O. BOX 246, WEST MYSTIC, CT 06388.
2. THE SUBJECT PARCEL IS IDENTIFIED AS LOT 63 ON THE TOWN OF MONTVILLE TAX ASSESSOR'S MAP 23. THE DEED REFERENCE OF THE PROPERTY IS VOLUME 708 PAGE 1032.
3. THE APPLICANT IS PROPOSING A 23-LOT RESIDENTIAL RESUBDIVISION LOCATED AT 47 SHARP HILL ROAD IN MONTVILLE. THE PARCEL WAS CREATED AS PART A SUBDIVISION APPROVED IN OCTOBER 2016.
4. THE PARCEL IS LOCATED WITHIN THE TOWN OF MONTVILLE RESIDENTIAL "R-20" ZONING DISTRICT. THE PROPERTY IS NOT LOCATED WITHIN A FEMA FLOOD HAZARD ZONE.
5. AS PART OF THE RESUBDIVISION, THE ROADWAY, ASSOCIATED ROADWAY DRAINAGE SYSTEM, STORMWATER MANAGEMENT IMPROVEMENTS, AND COMMON UTILITIES (SANITARY SEWER, ELECTRIC, TELEPHONE, CABLE) WILL BE INSTALLED. THE RESIDENCES, DRIVEWAYS, INDIVIDUAL LOT GRADING, AND DRILLED WELLS SHOWN ON THE PLANS FOR THE NEW BUILDING LOTS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. NO LOT DEVELOPMENT IS PROPOSED AT THIS TIME. PRIOR TO ANY INDIVIDUAL LOT DEVELOPMENT, A SITE PLAN SHALL BE PREPARED IN CONFORMANCE WITH ALL APPLICABLE LOCAL REGULATIONS, AND REVIEWED AND APPROVED BY THE ZONING ENFORCEMENT OFFICER. THE DEVELOPMENT OF INDIVIDUAL LOTS SHALL NOT ADVERSELY AFFECT THE DEVELOPMENT OF NEWLY CREATED LOTS OR EXISTING ADJUTING PROPERTIES.
6. THE PURPOSE OF THIS PLAN IS FOR REVIEW BY THE TOWN OF MONTVILLE INLAND WETLANDS & WATERCOURSES COMMISSION FOR A WETLANDS PERMIT APPLICATION, AND THE TOWN OF MONTVILLE PLANNING & ZONING COMMISSION FOR A SUBDIVISION APPLICATION.
7. EACH NEW BUILDING LOT WILL BE SERVED BY PRIVATE WELLS AND PUBLIC SANITARY SEWER.
8. INLAND WETLANDS WERE FLAGGED BY IAN COLE, WETLAND SCIENTIST AND REGISTERED SOIL SCIENTIST, IN SEPTEMBER 2024 AND WERE LOCATED BY BOUNDARIES, LLC IN JANUARY 2025.
9. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD-88 DATUM.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. THE LOCATIONS OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ACTUAL LOCATION OF SUBSURFACE UTILITIES MAY VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES PRIOR TO BEGINNING SITE WORK.
3. ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF MONTVILLE.
6. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE TOWN OF MONTVILLE STANDARDS, REGULATIONS, POLICIES AND PRACTICES OF THE DEPARTMENT OF PUBLIC WORKS.
7. EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL DISTURBED AREAS TO THEIR PRE-CONSTRUCTION CONDITION OR BETTER ONCE ALL WORK IS COMPLETE.
9. HOURS OF CONSTRUCTION SHALL BE LIMITED TO 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY, AND 8:00 A.M. TO 6:00 P.M. SATURDAY. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SUNDAYS. ADDITIONALLY, NO EXTERIOR LIGHTING FOR CONSTRUCTION PURPOSES, FREESTANDING OR OTHERWISE, IS APPROVED WITH THIS APPLICATION.
10. DELIVERIES OF MATERIALS/EQUIPMENT TO THE SITE RELATED TO THIS CONSTRUCTION PROJECT ARE LIMITED TO 7:00 A.M. TO 5:00 P.M. MONDAY TO SATURDAY.
11. CONSTRUCTION INSPECTION FOR PUBLIC IMPROVEMENTS WILL BE REQUIRED IN ACCORDANCE WITH THE TOWN OF MONTVILLE ROAD STANDARDS, SECTION 50.

GRADING NOTES:

1. THE PROPOSED SITE GRADING SHALL CONFORM TO THE GRADING SHOWN ON THIS PLAN WITH MINOR ADJUSTMENTS AS NECESSARY DUE TO ACTUAL FIELD CONDITIONS.
2. THE SITE CONTRACTOR SHALL REVIEW THE SITE GRADES AND FEATURES TO ENSURE THAT THE PROPOSED WORK IS CONSISTENT WITH THE EXISTING CONDITIONS AS PRESENTED ON THE PLANS.
3. A LICENSED LAND SURVEYOR SHALL SET A SITE BENCHMARK PRIOR TO CONSTRUCTION.



REV	DATE	DESCRIPTION OF REVISION
3	2/4/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
		DESCRIPTION OF REVISION

GRADING PLAN
 23-LOT RESIDENTIAL RESUBDIVISION
 PROPERTY ADDRESS:
 47 SHARP HILL ROAD, MONTVILLE, CT 06382
 PREPARED FOR:
MT KINEO BUILDERS, LLC
 P.O. BOX 246, WEST MYSTIC, CT 06388



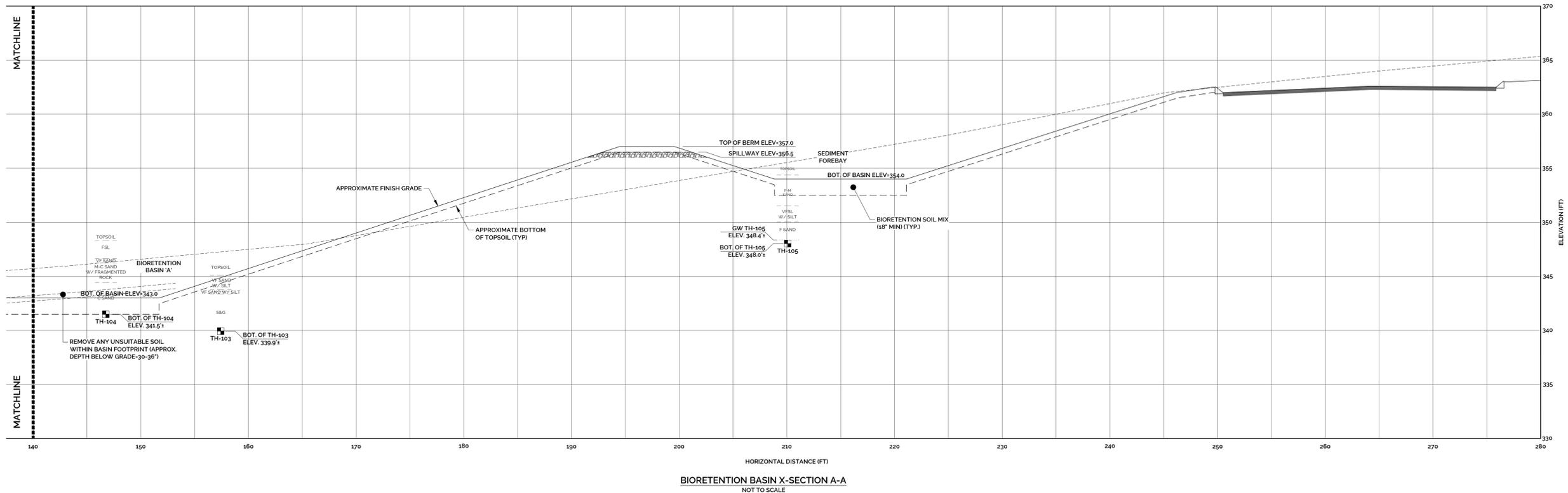
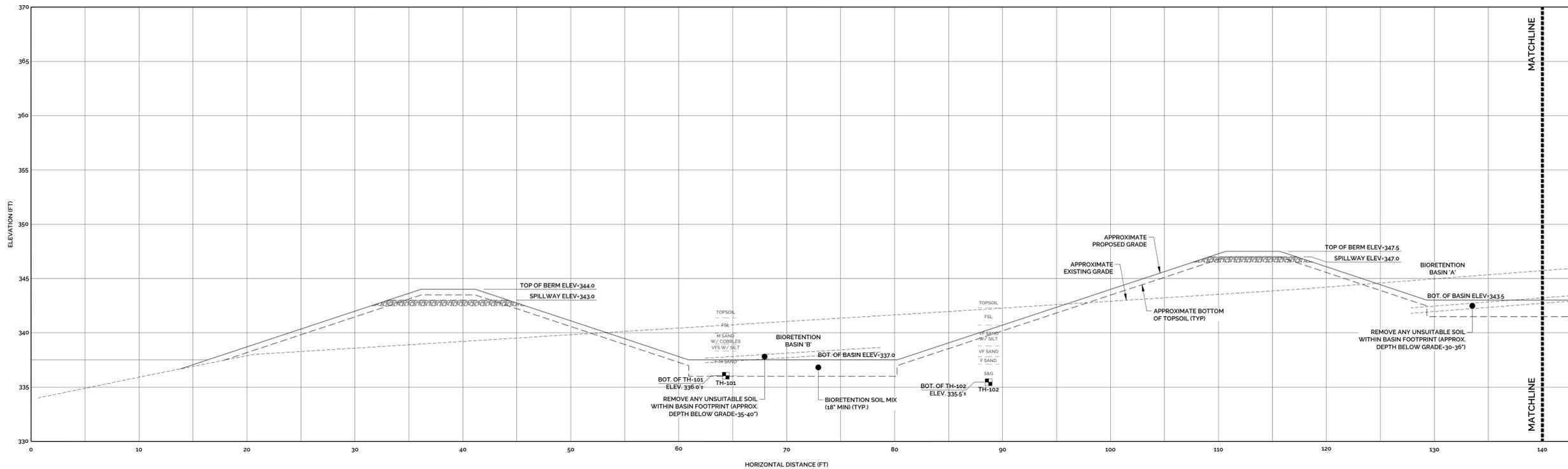
SCALE IN FEET
 1" = 50'

PROJECT NO. 2025-0197	SCALE 1" = 50'
DRAWN BY: SMM	DATE 7/10/2025
CHECKED BY: SMM	DATE 7/10/2025

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REV.	DATE	DESCRIPTION OF REVISION
3	2/4/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
REV.		DESCRIPTION OF REVISION



BIORETENTION BASIN X-SECTION A-A
 NOT TO SCALE

BASIN X-SECTION
 23-Lot Residential Resubdivision
 PROPERTY ADDRESS:
 47 SHARP HILL ROAD, MONTVILLE, CT 06382
 PREPARED FOR:
MT KINEO BUILDERS, LLC
 P.O. BOX 246, WEST MYSTIC, CT 06388

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PROJECT NO. 2025-0197	SCALE 1" = 5'
DRAWN BY: SMM	DATE 7/10/2025
CHECKED BY: SMM	DATE 7/10/2025

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SHEET NUMBER: 8 OF 18

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GENERAL NOTES:

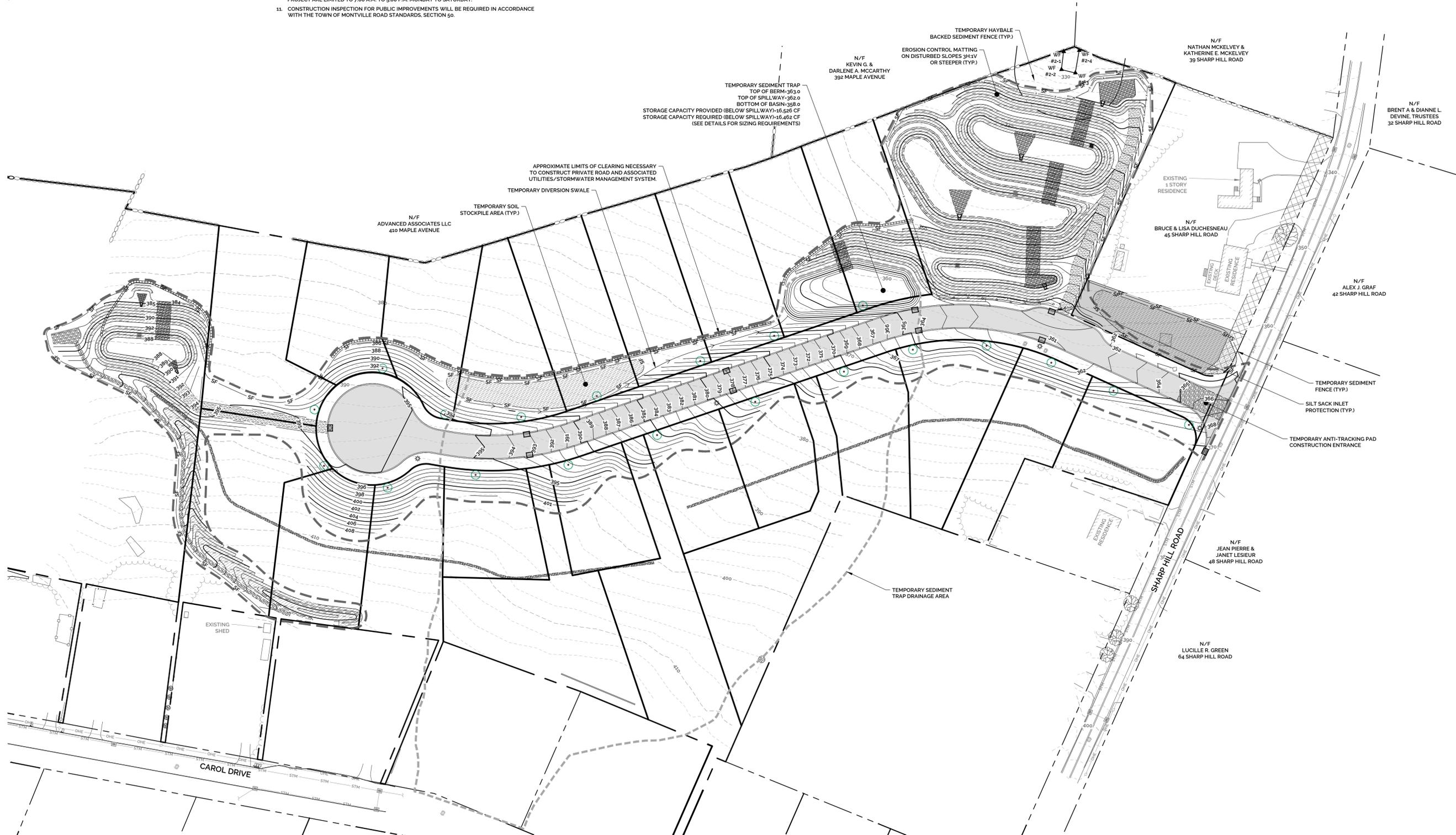
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9. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD-88 DATUM.

CONSTRUCTION NOTES:

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3. ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF MONTVILLE.
6. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE TOWN OF MONTVILLE STANDARDS, REGULATIONS, POLICIES AND PRACTICES OF THE DEPARTMENT OF PUBLIC WORKS.
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8. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ALL DISTURBED AREAS TO THEIR PRE-CONSTRUCTION CONDITION OR BETTER ONCE ALL WORK IS COMPLETE.
9. HOURS OF CONSTRUCTION SHALL BE LIMITED TO 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY, AND 8:00 A.M. TO 6:00 P.M. SATURDAY. NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE ON SUNDAYS. ADDITIONALLY, NO EXTERIOR LIGHTING FOR CONSTRUCTION PURPOSES, FREESTANDING OR OTHERWISE, IS APPROVED WITH THIS APPLICATION.
10. DELIVERIES OF MATERIALS/EQUIPMENT TO THE SITE RELATED TO THIS CONSTRUCTION PROJECT ARE LIMITED TO 7:00 A.M. TO 5:00 P.M. MONDAY TO SATURDAY.
11. CONSTRUCTION INSPECTION FOR PUBLIC IMPROVEMENTS WILL BE REQUIRED IN ACCORDANCE WITH THE TOWN OF MONTVILLE ROAD STANDARDS, SECTION 50.

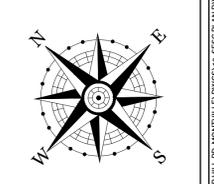
SOIL EROSION & SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES FROM ANY EROSION AND/OR SEDIMENTATION. REFER TO SOIL EROSION & SEDIMENT CONTROL PLAN AND NARRATIVE FOR PROPOSED SOIL EROSION & SEDIMENT CONTROL MEASURES.
2. REFER TO THE SOIL EROSION & SEDIMENT CONTROL NARRATIVE FOR ADDITIONAL INFORMATION.
3. ZONING ENFORCEMENT OFFICER MAY REQUIRE ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROLS AS NEEDED.



REV.	DATE	DESCRIPTION OF REVISION
3	2/4/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
REV.		

SOIL EROSION & SEDIMENT CONTROL PLAN
23-LOT RESIDENTIAL RESUBDIVISION
 PROPERTY ADDRESS:
 47 SHARP HILL ROAD, MONTVILLE, CT 06382
 PREPARED FOR:
MT KINEO BUILDERS, LLC
 P.O. BOX 246, WEST MYSTIC, CT 06388



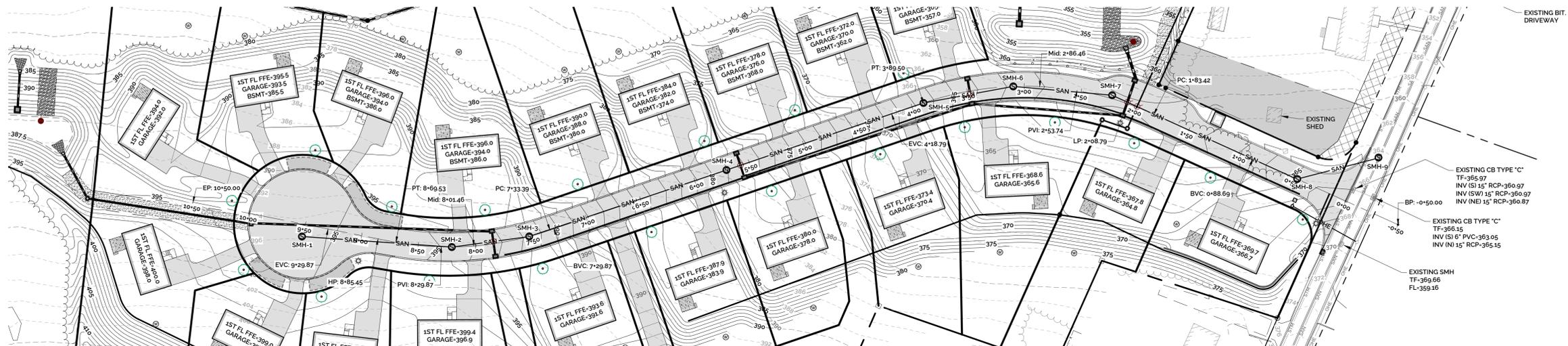
SCALE IN FEET
 1" = 50'

PROJECT NO. 2025-0197	SCALE 1" = 50'
DRAWN BY: SMM	DATE 7/10/2025
CHECKED BY: SMM	DATE 7/10/2025

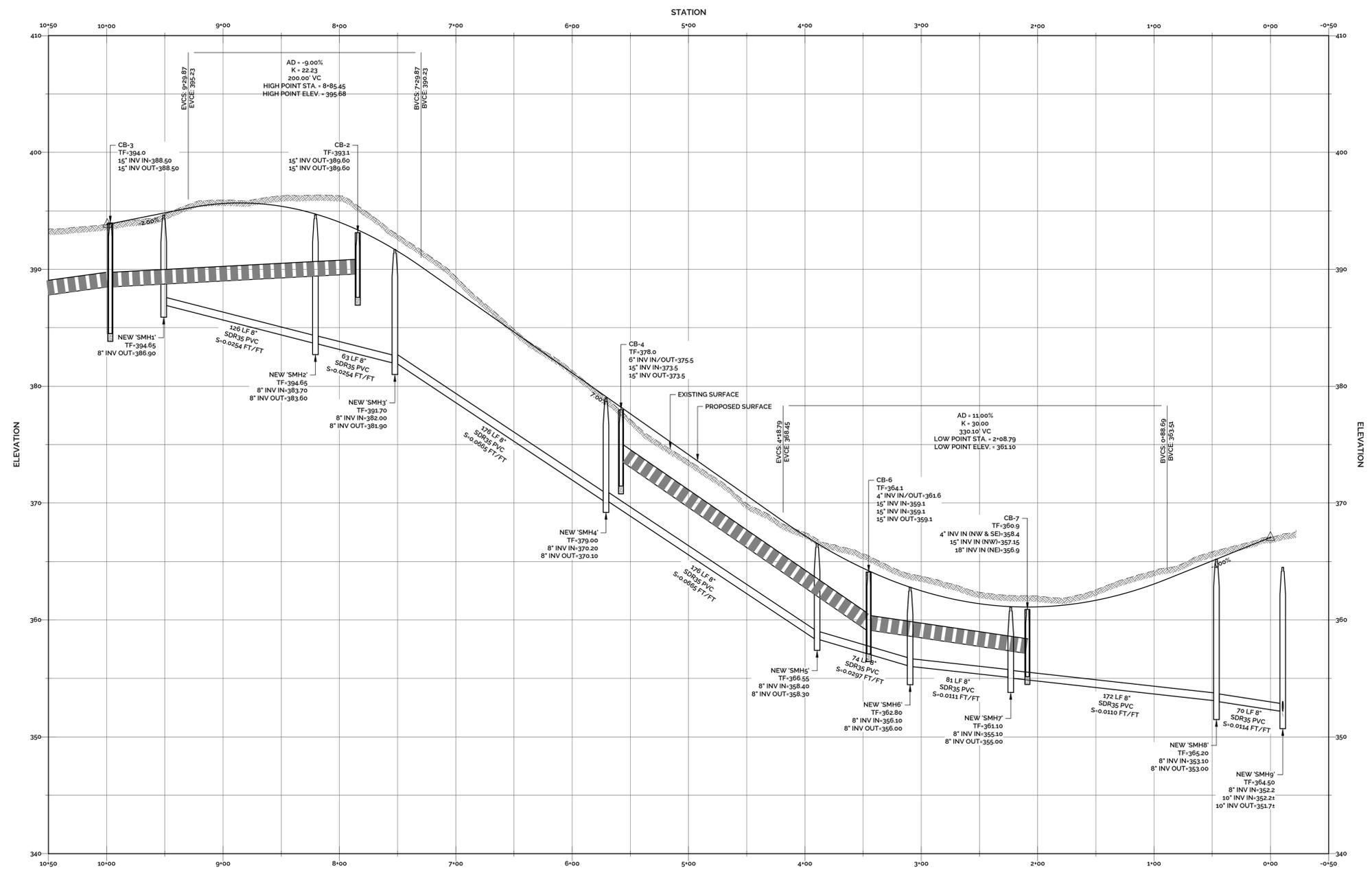
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PROPOSED ROADWAY ALIGNMENT
SCALE: 1"=50'



PROPOSED ROADWAY PROFILE
SCALE: 1"=50' (HORIZONTAL); 1"=5' (VERTICAL)

REV.	DATE	DESCRIPTION OF REVISION
3	2/4/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
REV.		

ROADWAY PLAN & PROFILE
23-Lot RESIDENTIAL RESUBDIVISION
PROPERTY ADDRESS:
47 SHARP HILL ROAD, MONTVILLE, CT 06382
PREPARED FOR:
MT KINEO BUILDERS, LLC
P.O. BOX 246, WEST MYSTIC, CT 06388



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SCALE IN FEET

PROJECT NO.	2025-0197	SCALE	AS NOTED
DRAWN BY:	SMM	DATE	7/10/2025
CHECKED BY:	SMM	DATE	7/10/2025

DRAWING
PPP-1



SOIL EROSION & SEDIMENTATION CONTROL (SESC) PLAN:

PROJECT DESCRIPTION

- THE APPLICANT IS PROPOSING A 23-LOT RESIDENTIAL RESUBDIVISION LOCATED AT 47 SHARP HILL ROAD IN MONTVILLE. THE PARCEL WAS CREATED AS PART A SUBDIVISION APPROVED IN OCTOBER 2018 AS PART OF THE RESUBDIVISION, THE ROADWAY, ASSOCIATED ROADWAY DRAINAGE SYSTEM, STORMWATER MANAGEMENT IMPROVEMENTS, AND COMMON UTILITIES (SANITARY SEWER, ELECTRIC, TELEPHONE, CABLE) WILL BE INSTALLED. THE RESIDENCES, DRIVEWAYS, INDIVIDUAL LOT GRADING, AND DRILLED WELLS SHOWN ON THE PLANS FOR THE NEW BUILDING LOTS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. NO LOT DEVELOPMENT IS PROPOSED AT THIS TIME. PRIOR TO ANY INDIVIDUAL LOT DEVELOPMENT, A SITE PLAN SHALL BE PREPARED IN CONFORMANCE WITH ALL APPLICABLE LOCAL REGULATIONS, AND REVIEWED AND APPROVED BY THE ZONING ENFORCEMENT OFFICER. THE DEVELOPMENT OF INDIVIDUAL LOTS SHALL NOT ADVERSELY AFFECT THE DEVELOPMENT OF NEWLY CREATED LOTS OR EXISTING ADJUTTING PROPERTIES.
- CONSTRUCTION IS ANTICIPATED TO COMMENCE IN WINTER 2026. CONSTRUCTION WILL OCCUR IN TWO PHASES. PHASE ONE WILL INCLUDE THE CONSTRUCTION OF THE ROADWAY, ASSOCIATED ROADWAY DRAINAGE SYSTEM, STORMWATER MANAGEMENT IMPROVEMENTS, AND COMMON UTILITIES. PHASE ONE IS ANTICIPATED TO START IN WINTER 2026 AND END BY WINTER 2027 (1-YEAR DURATION). PHASE TWO WILL INCLUDE THE CONSTRUCTION AND BUILD OUT OF EACH BUILDING LOT WITH A HOUSE WHICH WILL OCCUR AS EACH LOT IS SOLD. PHASE TWO IS ANTICIPATED TO START IN WINTER 2028 AND END IN WINTER 2031 (3-YEAR DURATION). IT SHOULD BE NOTED PHASE TWO IS NOT PART OF THE SCOPE OF THIS PROJECT AND NO LOT DEVELOPMENT IS PROPOSED AT THIS TIME (SEE NOTE #1 ABOVE). HOWEVER, THE DEVELOPER CONSTRUCTING THE ROAD WILL ALSO BE DEVELOPING THE INDIVIDUAL LOTS. THE EXACT START AND END DATES OF PHASE TWO MAY VARY DUE TO VARIOUS FACTORS SUCH AS THE HOUSING MARKET, INTEREST RATES, ETC.
- EXISTING TOPOGRAPHY ACROSS THE SITE IS MODERATE TO STEEP WITH ELEVATIONS RANGING FROM 416± ALONG THE WESTERN PROPERTY LINE TO 325± AT THE WETLAND IN THE SOUTHEAST CORNER. PER NRCS SOIL MAPPING, THE UNDERLYING SOIL ACROSS MOST OF THE SITE CONSISTS OF WOODBRIDGE FINE SANDY LOAM (HYDROLOGIC SOIL GROUP 'C/D'), RUNOFF FROM THE SITE EVENTUALLY FLOWS TO ROCKLAND POND LOCATED APPROXIMATELY 0.2 MILES EAST/NORTHEAST OF THE SITE.
- APPROXIMATELY 4.97± ACRES OF THE 19.2± ACRE PARCEL WILL BE DISTURBED BY EARTHWORK ACTIVITIES FOR THE CONSTRUCTION OF THE ROAD AND STORMWATER MANAGEMENT IMPROVEMENTS AND APPROXIMATELY 4.21± ACRES OF ADDITIONAL LAND WILL BE DISTURBED BY EARTHWORK ACTIVITIES DURING THE CONSTRUCTION OF INDIVIDUAL LOTS. THE PROJECT DEVELOPMENT WILL REQUIRE DEMOLITION, CLEARING AND EARTHWORK TO PREPARE THE SITE. EARTHWORK ACTIVITIES WILL EXPOSE SOILS TO EROSION DURING MAJOR EVENTS.
- THE INTENT OF THIS SESC PLAN IS TO ESTABLISH STORMWATER MANAGEMENT CONTROLS DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF SEDIMENT LADEN RUNOFF FROM ENTERING STORM DRAIN SYSTEMS OR ADJACENT PROPERTIES.
- REFER TO INLAND WETLAND REPORT (UNDER SEPARATE COVER), STORMWATER MANAGEMENT REPORT (UNDER SEPARATE COVER), TEST HOLE LOGS (SHEET 18 OF 18), PERMEABILITY TEST RESULTS (SHEET 18 OF 18), AND STORMWATER MANAGEMENT IMPROVEMENTS AND DETAILS (SHEET 7 AND 18 OF 18). LOW-IMPACT DEVELOPMENT FEATURES INCLUDE MULTIPLE STORMWATER MANAGEMENT BASINS, VEGETATED SWALES, AND DISCONNECTED IMPERVIOUS AREAS.

GENERAL SESC REQUIREMENTS

- THE SITE CONTRACTOR MUST FOLLOW ALL GUIDELINES SET FORTH IN THE MANUAL ENTITLED "CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL," EFFECTIVE DATE: MARCH 30, 2024, PUBLISHED BY THE COUNCIL ON SOIL AND WATER CONSERVATION IN COLLABORATION WITH CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
- SESC MEASURES INTENDED TO MINIMIZE SOIL EROSION AND TO CONTROL SEDIMENTATION DURING CONSTRUCTION INCLUDE:
 - THE INSTALLATION OF SILT FENCE ALONG THE DOWNGRADE LIMIT OF DISTURBANCE.
 - THE IMMEDIATE STABILIZATION OF DISTURBED AREAS THROUGH THE PLACEMENT OF TEMPORARY SEED AND MULCH OR FINAL TOPSOIL, SEED AND MULCH.
 - CONSTRUCTION OF A TEMPORARY SEDIMENT TRAP.
 - THE USE OF EROSION CONTROL BLANKETS TO STABILIZED CUT AND FILL SLOPES GRADED AT 3H:1V OR STEEPER. EROSION CONTROL BLANKETS SHALL BE NORTH AMERICAN GREEN BIONET GREEN BIONET MANUFACTURED BY NORTH AMERICAN GREEN, LOCATED AT 4609 E. BOONVILLE-NEW HARMONY ROAD, EVANSVILLE, INDIANA, 47725.
 - DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC CONSTRUCTION SEQUENCING OUTLINED HEREIN.
- ALL ADJACENT PROPERTIES SHALL BE ADEQUATELY PROTECTED FROM SOIL EROSION AND SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION.
- CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE SITE BEGINS.
- THE CONTRACTOR SHALL INSTALL SILT FENCING PRIOR TO INITIATING CONSTRUCTION ACTIVITIES AND SHALL BE MAINTAINED/REPAIRED UNTIL FINAL STABILIZATION OF ALL DISTURBED AREAS.
- ALL AREAS SHALL REMAIN UNDISTURBED UNTIL IMMEDIATELY PRIOR TO SITE DEVELOPMENT.
- ALL EXISTING VEGETATION OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL BE PROTECTED. EXISTING VEGETATION SHALL BE REMOVED ONLY IN AREAS NECESSARY FOR SITE CONSTRUCTION ACTIVITIES.
- ALL CONSTRUCTION EQUIPMENT, MATERIALS AND STOCKPILES SHALL NOT BE PLACED OUTSIDE OF THE DISTURBED AREAS.
- THE CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS EXPECTED TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS.
- THE CONTRACTOR SHALL COMPLETE PERMANENT SEEDING BETWEEN APRIL 1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH OCTOBER 1ST. APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE AT A RATE OF 30 POUNDS PER 1,000 SQUARE FEET. RECOMMENDED SEED MIXTURE: FULTON 2000 BY THE CHAS. C. HART CO. CONTAINING THE FOLLOWING VARIETIES OF PERENNIAL RYEGRASSES: FIESTA II, BLAZER II, Dasher II AND EXPRESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL SESC BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF ALL EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED.
- ALL SESC SHALL BE INSPECTED WEEKLY AND AFTER ALL RAINFALL EVENTS. ALL SESC SHALL BE REPAIRED OR REPLACED AS NECESSARY WITHIN 24 HOURS THROUGHOUT THE CONSTRUCTION DURATION. INSPECTION REPORTS SHALL BE SENT TO THE ROCKY HILL PLANNING & ZONING DEPARTMENT.

CONSTRUCTION SEQUENCE - ROADWAY, DRAINAGE AND ASSOCIATED EARTHWORK (WINTER 2026-WINTER 2027)

- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY (1-5 DAYS).
- ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS (1-30 DAYS).
- INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND SEDIMENT FENCE AS SHOWN ON THE SESC PLAN (1-10 DAYS).
- CONSTRUCT TEMPORARY SEDIMENT TRAP (1-10 DAYS).
- REMOVE ALL TREES, BRUSH AND STUMPS WITHIN LIMIT OF DISTURBANCE AS NECESSARY. THERE SHALL BE NO BURIAL OF CONSTRUCTION DEBRIS, STUMPS, BRUSH OR UNSUITABLE MATERIAL ON SITE (1-45 DAYS).
- REMOVE AND STOCKPILE ALL TOPSOIL ON SITE AND PROVIDE A SEDIMENT FENCE ON THE DOWNSLOPE SIDE. SEED STOCKPILE WITH PERENNIAL RYEGRASS AT A RATE OF 40 POUNDS PER ACRE AND MULCH WITH HAY OR STRAW. IF OUTSIDE THESE GROWING SEASON, AREAS SHALL BE STABILIZED WITH STRAW OR HAY MULCHING AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET (1-10 DAYS).
- EXCAVATE AND/OR FILL WORK SITE TO SUBGRADE LEVEL (1-45 DAYS).
 - NO ROCK CRUSHING AND/OR BLASTING IS PROPOSED. IF BLASTING IS REQUIRED FOR ROCK REMOVAL, A PRE-BLAST SURVEY SHALL BE PERFORMED. IF BLASTING AND ROCK CRUSHING ARE REQUIRED THEN APPROVAL OF THE PLANNING & ZONING COMMISSION MAY BE REQUIRED.
 - FILL WILL BE PLACED AND COMPACTED IN 8 INCH LIFTS AND SHALL BE FREE OF BRUSH, RUBBISH, LOGS, BUILDING DEBRIS, OR ANY OTHER OBJECTIONABLE MATERIAL. CONSTRUCT RETAINING WALLS AS REQUIRED.
 - MOISTEN SOIL SURFACE PERIODICALLY WITH WATER TO MINIMIZE DUST.
- INSTALL STORMWATER MANAGEMENT IMPROVEMENTS AND DRAINAGE STRUCTURES STARTING FROM THE MOST DOWNGRADE IMPROVEMENTS. INSTALL FILTER FABRIC AND/OR HAY BALES AT CATCH BASINS IMMEDIATELY AFTER CATCH BASIN INSTALLATION (1-60 DAYS).
- INSTALL SANITARY SEWER LINES & STRUCTURES, TRANSFORMERS, AND ELECTRICAL, TELEPHONE, CABLE CONDUITS (1-60 DAYS).
- PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT BASE COURSE, CURB, ETC (1-30 DAYS).
- ALL DISTURBED AREAS NOT COVERED BY PAVEMENT, ETC., SHALL BE GRADED AND STABILIZED (1-10 DAYS) AS FOLLOWS:
 - PLACE MINIMUM 4 INCHES OF TOPSOIL IN ALL AREAS.
 - APPLY RECOMMENDED SEED MIXTURE AT RECOMMENDED RATE.
 - APPLY STRAW OR HAY MULCH ON ALL SEEDED AREAS. ALL GRADED AREAS WITH SLOPES GRADED AT 3H:1V OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.
- INSTALL FINAL PAVEMENT COURSE (1-10 DAYS).
- FINAL GRADE AND PLACE TOPSOIL SEED AND MULCH (1-30 DAYS).
- WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENTS (1-10 DAYS).

CONSTRUCTION SEQUENCE - INDIVIDUAL LOTS (TIMING OF CONSTRUCTION TBD)

- THE CONSTRUCTION OF INDIVIDUAL BUILDINGS WILL BE COMPLETED AS LOTS ARE SOLD. DURING THE CONSTRUCTION OF EACH BUILDING, THE CONTRACTOR SHALL FOLLOW THE FOLLOWING SESC INSTALLATION PROCEDURES:
 - THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.
 - ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS.
 - INSTALL SEDIMENT FENCE ON THE DOWNGRADE EDGE OF PROPOSED DISTURBANCE.
 - REMOVE AND STOCKPILE TOPSOIL ON SITE AND PROVIDE A SEDIMENT FENCE ON THE DOWNSLOPE SIDE. SEED STOCKPILE WITH PERENNIAL RYEGRASS AT A RATE OF 40 POUNDS PER ACRE AND MULCH WITH HAY OR STRAW. IF OUTSIDE THESE GROWING SEASON, AREAS SHALL BE STABILIZED WITH STRAW OR HAY MULCHING AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
 - BEGIN CONSTRUCTION OF BUILDING AND INSTALL UTILITIES. ADD EROSION CONTROL DEVICES AS NEEDED.
 - PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT BASE COURSE, CURB, SIDEWALKS, STEPS, ETC.
 - ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PARKING, SIDEWALKS, ETC., SHALL BE GRADED AND STABILIZED AS FOLLOWS:
 - PLACE MINIMUM 4 INCHES OF TOPSOIL IN ALL AREAS.
 - APPLY RECOMMENDED SEED MIXTURE AT RECOMMENDED RATE.
 - APPLY STRAW OR HAY MULCH ON ALL SEEDED AREAS. ALL GRADED AREAS WITH SLOPES GRADED AT 3H:1V OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.
 - INSTALL FINAL PAVEMENT COURSE.
 - FINAL GRADE AND PLACE TOPSOIL SEED AND MULCH.
 - WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENTS.

SESC PLAN (CONTINUED):

TRENCH EXCAVATION AND BACKFILL

- THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL BACKFILLED EXCAVATIONS. ANY DEPRESSIONS DUE TO SETTLING IN THESE AREAS SHALL BE FILLED AND RESEDED AS NECESSARY.
- THE WIDTH OF ALL EXCAVATED TRENCHES SHALL BE KEPT AS NARROW AS PRACTICABLE TO ACCOMMODATE THE WORK. ALL MATERIALS EXCAVATED FROM TRENCHES SHALL BE STOCKPILED AND USED AS TRENCH BACKFILL. MATERIAL UNLESS IT IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. EXCESS MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

VEGETATIVE TURF ESTABLISHMENT PROCEDURE

- SCARIFY ALL AREAS TO BE TOPSOILED AND SEEDED. APPLY A MINIMUM OF 4 INCHES OF TOPSOIL ON ALL AREAS TO BE SEEDED. APPLY GRASS SEED, LIME, FERTILIZER AND MULCH ACCORDING TO THE FOLLOWING SCHEDULE:

CREeping RED FESCUE	0.45 LBS. PER 1,000 SQ. FT.
REDTOP	0.05
TALL FESCUE	0.45
TOTAL	0.95
- PERMANENT SEED MIXTURE:
- FERTILIZER:
 - 10-10-10 APPLY AT 7.5 LBS. PER 1,000 SQ. FT.
- LIMESTONE:
 - APPLY AT 150 LBS. PER 1,000 SQ. FT.
- MULCHING:
 - SPREAD HAY OR STRAW OVER ALL AREAS AFTER SEEDING. USE 1 1/2 TO 2 BALES PER 1,000 SQ. FT. TARGET FOR 100% COVERAGE. ANCHOR BY USING NETTING OR TRACKING AS NECESSARY.
- TEMPORARY EROSION CONTROL BLANKETS:
 - USE TEMPORARY EROSION CONTROL BLANKETS ON ALL SEEDED SLOPES GRADED AT 3H:1V OR STEEPER AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- SEEDING DATES:
 - SEEDING DATES IN CONNECTICUT ARE NORMALLY APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1. SEED GERMINATION NORMALLY CANNOT BE EXPECTED FROM NOVEMBER THROUGH FEBRUARY. IF ADEQUATE SEED GERMINATION IS NOT POSSIBLE DUE TO TIME OF YEAR CONSTRAINTS, MULCHING SHALL BE ADEQUATELY PROVIDED TO PROTECT THE SEED FROM WIND AND SURFACE EROSION UNTIL THE WEATHER IMPROVES AND THE SEEDING BECOMES WELL ESTABLISHED.

MAINTENANCE OF EROSION CONTROL DEVICES:

HAYBALE BARRIERS/GEOTEXTILE SILT FENCES:

- INSPECT HAY BALE BARRIERS/GEOTEXTILE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- REMOVE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER/FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF HEIGHT OF THE BARRIER/FENCE.
- REPLACE OR REPAIR THE BARRIER/FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. IF REPETITIVE FAILURE OCCURS, CONSULT 2024 GUIDELINES FOR TROUBLESHOOTING FAILURES.
- MAINTAIN THE HAY BALE BARRIER/SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
- AFTER UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE STAKES FROM HAY BALES, PULL UP FENCE SUPPORT POSTS AND CUT OFF GEOTEXTILE AT GROUND UNLESS OTHERWISE REQUIRED. HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER. IF ACCUMULATED SEDIMENT EXCEEDS 6 INCHES, RE-GRADE OR REMOVE SEDIMENT. STABILIZE ANY DISTURBED SOILS.

CONSTRUCTION ENTRANCES AND ROADWAYS:

- MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.
- PROVIDE PERIODIC TOP DRESSING AND ADDITIONAL STONE OR LENGTH AS NECESSARY.
- IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES. ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE LEFT CLEAN EVERY DAY.

TEMPORARY SEDIMENT TRAP:

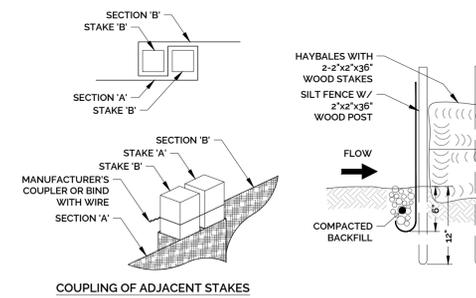
- INSPECTIONS SHALL BE AT SAME INTERVALS AS THE HAYBALE BARRIER/SILT FENCE INSPECTION SCHEDULE.
- OUTLET SHALL BE CHECKED FOR INTEGRITY. HEIGHT OF THE STONE OUTLET SHALL BE MAINTAINED AT ONE FOOT BELOW CREST OF EMBANKMENT. SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE SHOULD BE OBSERVED.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF OF THE MINIMUM REQUIRED STORAGE VOLUME, DE-WATER BASIN, REMOVE SEDIMENTS, RESTORE TRAP TO ORIGINAL DIMENSIONS AND DISPOSE OF SEDIMENT AT A LOCATION AND MANNER THAT WILL NOT RESULT IN EROSION OR SEDIMENTATION.
- AFTER CONTRIBUTING AREA IS STABILIZED, REMOVE BASIN, AND RE-GRADE AND STABILIZE AREA.

TEMPORARY CHECK DAMS:

- INSPECT CHECK DAMS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- REMOVE THE SEDIMENT DEPOSITS WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE CHECK DAM.
- REPLACE OR REPAIR THE CHECK DAM WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE CHECK DAM HAS OCCURRED WHEN SEDIMENT FAULTS TO BE RETAINED BECAUSE ONE OR MORE OF THE FOLLOWING:
 - STONE OR FIBER ROLLS HAVE MOVED
 - SOIL HAS ERODED AROUND OR UNDER THE CHECK DAM REDUCING ITS FUNCTIONAL CAPACITY
 - TRAPPED SEDIMENTS ARE OVERTOPPING THE CHECK DAM
- WHEN REPETITIVE FAILURES OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATIONS FOR USE AND DETERMINE IF ADDITIONAL CONTROLS (E.G., TEMPORARY STABILIZATION OF CONTRIBUTING AREA, DIVERSIONS, CHECK DAMS) ARE NEEDED TO REDUCE FAILURE RATE.
- MAINTAIN THE CHECK DAM UNTIL THE CONTRIBUTING AREA IS STABILIZED.
- AFTER THE CONTRIBUTING AREA IS STABILIZED, REMOVE ACCUMULATED SEDIMENT AND REMOVE ALL STONE. STABILIZE (SEED AND MULCH) ANY DISTURBED SOIL THAT REMAINS FROM CHECK DAM REMOVAL OPERATIONS IMMEDIATELY FOLLOWING THEIR REMOVAL.

TEMPORARY DIVERSION DITCHES/SWALES:

- WHEN THE TEMPORARY DIVERSION IS LOCATED IN CLOSE PROXIMITY TO ONGOING CONSTRUCTION ACTIVITIES, INSPECT AT THE END OF EACH DAY AND IMMEDIATELY REPAIR DAMAGES. OTHERWISE, INSPECT ON SAME INTERVAL AS THE TEMPORARY SEDIMENT TRAP.
- REPAIR THE DIVERSION WITHIN 24 HOURS OF ANY OBSERVED FAILURE. FAILURE HAS OCCURRED WHEN THE DIVERSION HAS BEEN DAMAGED SUCH THAT IT NO LONGER MEETS THE SPECIFICATIONS IN THE 2024 GUIDELINES.
- IF REPETITIVE FAILURES OCCUR, REVIEW CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES OR AN ALTERNATIVE MEASURE IS NECESSARY.

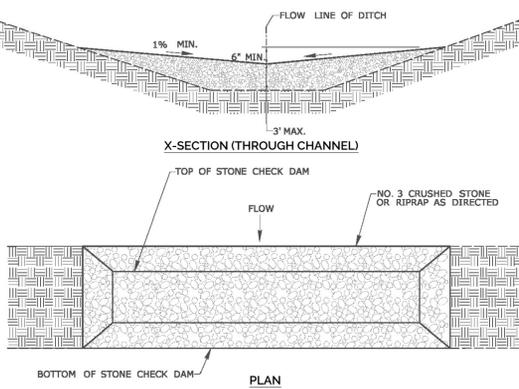
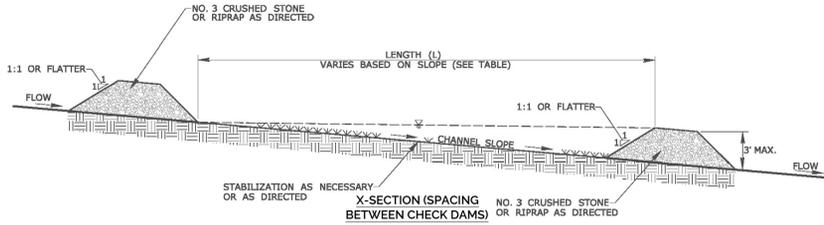


- INSTALLATION NOTES FOR SILT FENCE/HAYBALES**
- PLACE HAY BALES ON CONTOUR AND WITH LAST HAY BALES UPSLOPE TO THAT TOP OF LAST SEVERAL HAY BALES ARE HIGHER THAN LINE OF HAY BALES.
 - EXCAVATE TRENCH 4" MIN. AND PLACE FILL UPSLOPE OF TRENCH
 - PLACE HAY BALE AND STAKE FIRST STAKE AT ANGLE TOWARDS FIRST BAKE. STAKES ARE 18" MIN. INTO GROUND.
 - WEDGE LOOSE HAY BETWEEN BALES.
 - BACKFILL & COMPACT EXCAVATED FILL ALONG UPHILL SIDE OF HAY BALE.

TYPICAL HAYBALE BACKED SEDIMENT FENCE DETAIL
NOT TO SCALE

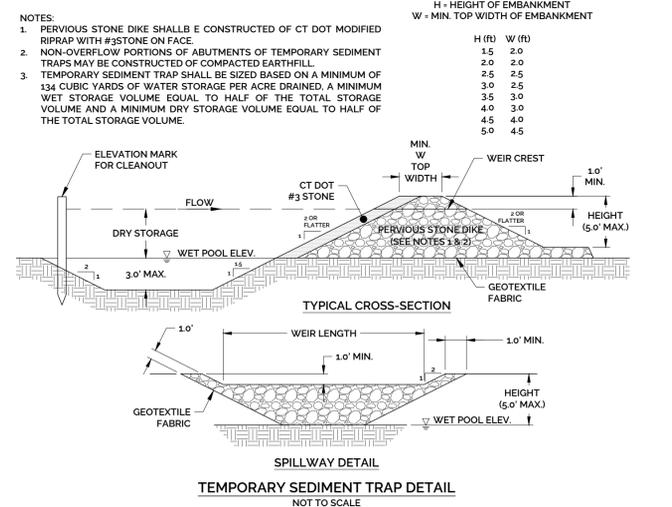
MAXIMUM SPACING BETWEEN CHECK DAMS FOR A 3' CHECK DAM HEIGHT

CHANNEL SLOPE	LENGTH
1% TO 3%	100'
4%	75'
5%	60'
6%	50'
7%	43'
8%	38'

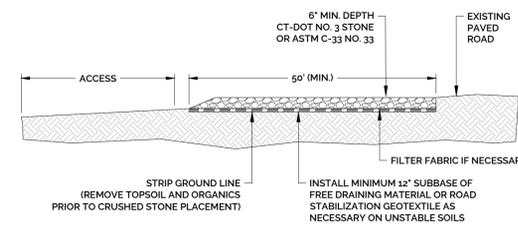


SUMMARY OF TEMPORARY SEDIMENT TRAP SIZING CALCULATIONS

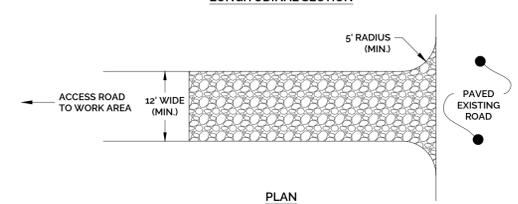
ITEM	TEMPORARY SEDIMENT TRAP 'A'
DRAINAGE AREA (ACRES)	4.551
TOTAL STORAGE VOLUME REQUIRED (CF)	15,462
WET STORAGE VOLUME REQUIRED (CF)	8,231
DRY STORAGE VOLUME REQUIRED (CF)	8,231



TEMPORARY SEDIMENT TRAP DETAIL
NOT TO SCALE



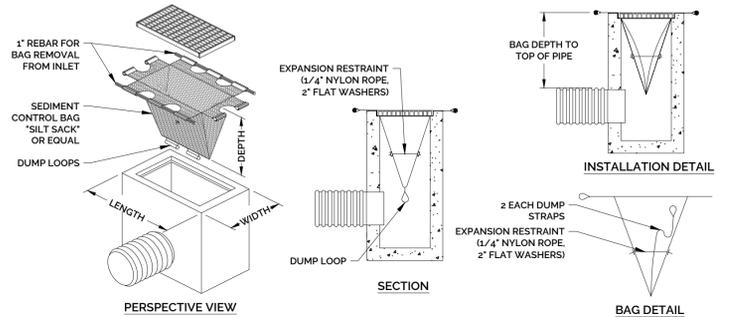
LONGITUDINAL SECTION



PLAN

NOTE: ALL ANTI-TRACKING PADS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH 2024 CT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL, AS AMENDED.

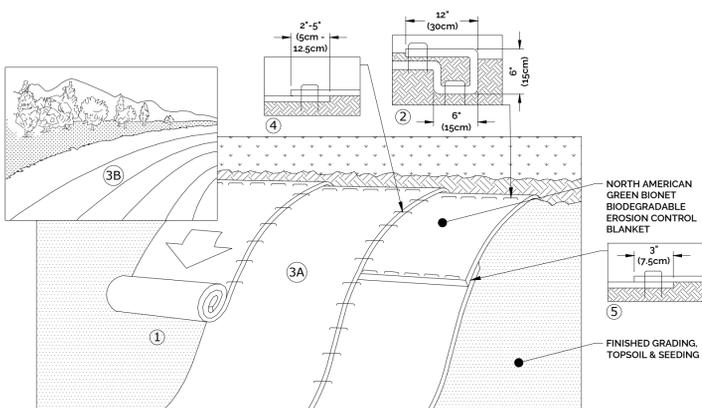
ANTI-TRACKING PAD DETAIL
NOT TO SCALE



NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET. FOR NON-STANDARD CATCH BASINS AND INLETS, THE CONTRACTOR SHALL MEASURE DIMENSIONS IN THE FIELD AND ORDER THE APPROPRIATE SIZES.
- THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF HIGH FLOW DESIGN (200 GAL/MIN/FT), AS PER THE MANUFACTURER'S SPECS.
- THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND CLEANED AND MAINTAINED A MINIMUM ONCE PER MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL. THE FILTER SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT REMAINS ON SITE.
- SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED.
- RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER INLET SACK TO BE DETERMINED BY MANUFACTURER.
- THE FILTER DEVICE SHALL BE MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.

CATCH BASIN FILTER (SILT SACK) DETAIL
NOT TO SCALE



NOTES:

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

EROSION CONTROL BLANKET DETAIL
NOT TO SCALE

REV	DATE	DESCRIPTION OF REVISION
3	8/15/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2024	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS

SOIL EROSION & SEDIMENT CONTROL NARRATIVE AND DETAILS
23-Lot Residential Resubdivision
PROPERTY ADDRESS: 47 SHARP HILL ROAD, MONTVILLE, CT 06382
PROJECT NO: 2025-0197
DRAWN BY: SM
CHECKED BY: SM
DATE: 7/10/2025
MT KINEO BUILDERS, LLC
P.O. BOX 246, WEST MYSTIC, CT 06388

PROJECT NO: 2025-0197
SCALE: AS NOTED
DRAWN BY: SM
DATE: 7/10/2025
CHECKED BY: SM
DATE: 7/10/2025
DRAWING
SEN-1
SHEET NUMBER: 14 OF 18



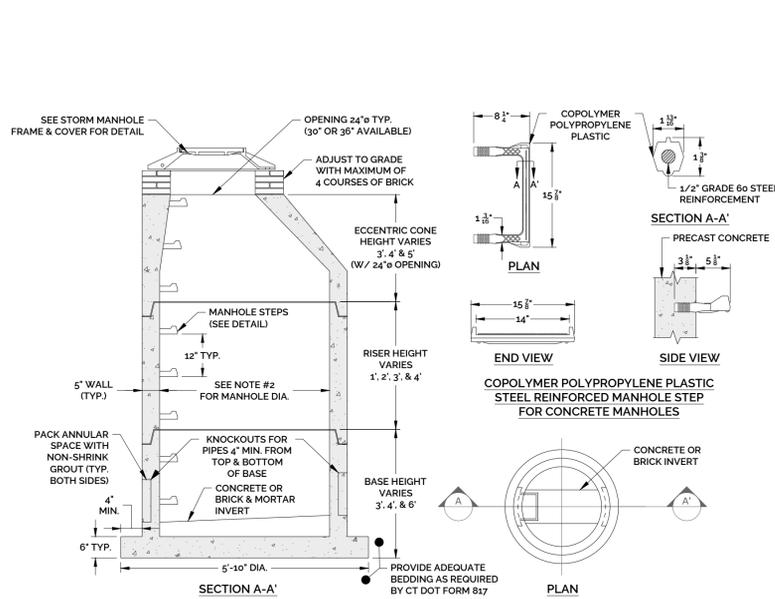
REV.	DATE	DESCRIPTION
3	2/4/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
		DESCRIPTION OF REVISION

DRAINAGE DETAILS
 23-Lot Residential Resubdivision
 PROPERTY ADDRESS:
 47 SHARP HILL ROAD, MONTVILLE, CT 06382
 PREPARED FOR:
MT KINEO BUILDERS, LLC
 P.O. BOX 246, WEST MYSTIC, CT 06388

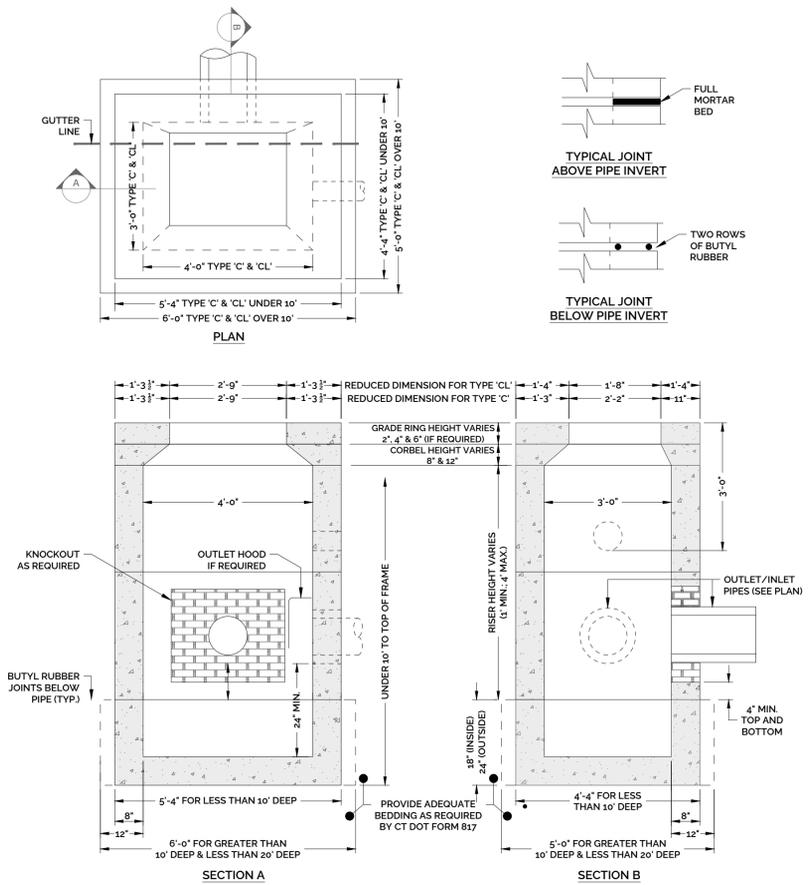
PROJECT NO. 2025-0197	SCALE AS NOTED
DRAWN BY: SMM	DATE 7/10/2025
CHECKED BY: SMM	DATE 7/10/2025

DRAWING
DT-2

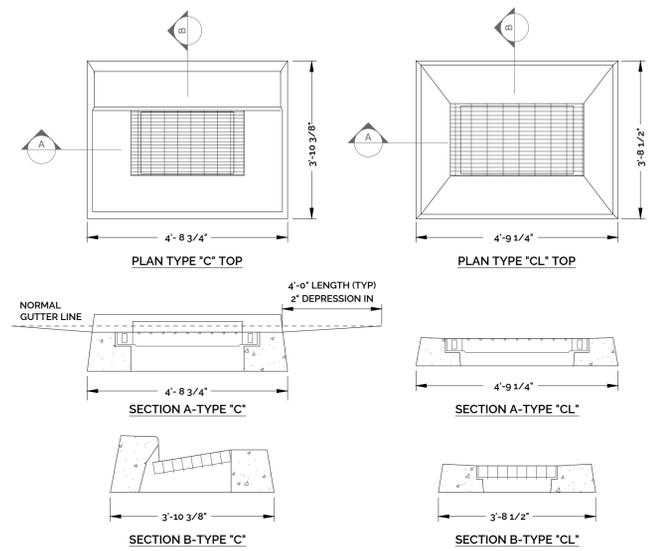
SHEET NUMBER: 16 OF 18



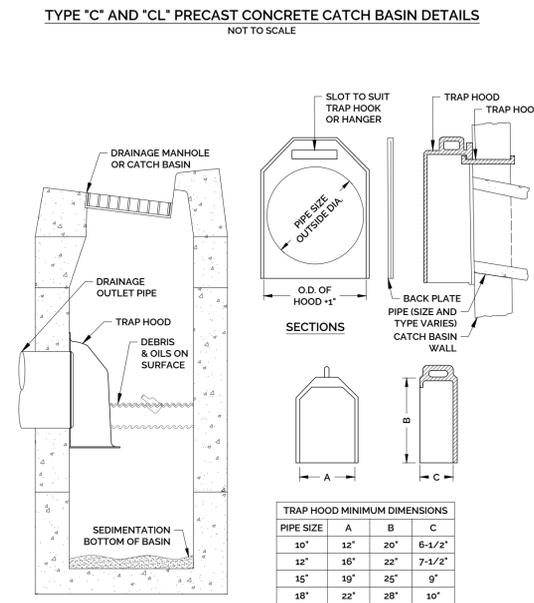
- NOTES:
- PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO CT DOT STANDARD SHEET HW-507.10 AS AMENDED.
 - 4', 5' OR 6' PRECAST CONCRETE BASE DIAMETERS MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' AND 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS SHALL INCREASE 1" FOR EACH 1' OF INSIDE DIAMETER INCREASE.
 - JOINT SEALANT SHALL BE BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPECIFICATION M-198 & MEETS FEDERAL SPECIFICATION SS-5-0021210-A).
 - REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CT DOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2", UNLESS OTHERWISE NOTED.
 - ALL PIPE OPENINGS SHALL BE CLOSED USING MATERIALS WHICH CONFORM TO STATE OF CT STANDARD SPECIFICATIONS SECTION M.08.02.
 - REINFORCING STEEL WELDED WIRE FABRIC SHALL CONFORM TO LATEST ASTM SPECIFICATION A486.
 - CONCRETE COMPRESSIVE STRENGTH SHALL BE MINIMUM 4000 PSI AT 28 DAYS, SELF COMPACTING CONCRETE MIX.
 - MANHOLE STEPS SHALL MEET LATEST OSHA REGULATIONS, (29 CFR 1910.27), SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497.
 - WHEN SPECIFIED, MANHOLES ARE TO BE COATED WITH BAY OIL, "EBONY".
 - METHOD OF MANUFACTURE SHALL BE WET CAST.
 - BASE SECTION IS MONOLITHIC.
 - MANHOLE INTERIOR DIAMETER:
 4'-0" FOR 8" TO 36" PIPE DIAMETERS
 5'-0" FOR 42" PIPE DIAMETER
 6'-0" FOR 48" PIPE DIAMETER
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04 & HW-507.10, CT DOT FORM 817 AND (MANHOLE STEPS) THE METROPOLITAN DISTRICT SEWER STANDARD DETAILS FIG. 5-34, DATED JAN. 2017.



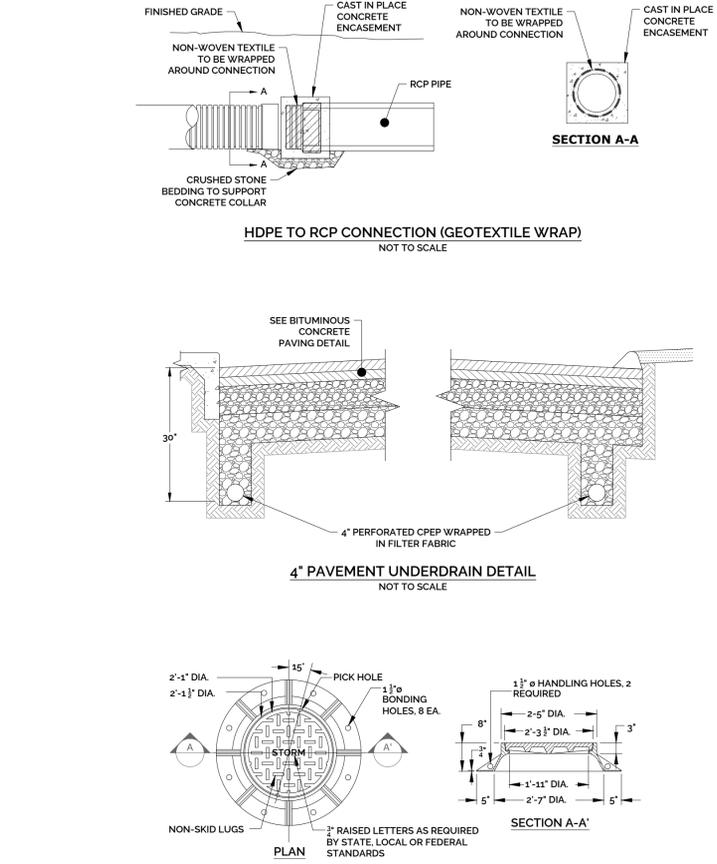
- NOTES:
- PRECAST CONCRETE CATCH BASIN COMPONENTS SHALL CONFORM TO CT DOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.04, HW-507.07 & HW-507.08, AS AMENDED.
 - THIS DETAIL IS BASED ON CT DOT PRECAST CONCRETE TYPE "C" & "CL" CATCH BASIN COMPONENTS, (UNDER 10' DEEP SHOWN).
 - REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CT DOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
 - METHOD OF MANUFACTURE SHALL BE WET CAST.
 - SUMP SECTION SHALL BE MONOLITHIC.
 - DESIGN LOAD SHALL BE AASHTO H-20.
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04, HW-507.07 & HW-507.08, CT DOT FORM 817, AND UNITED CONCRETE PRODUCTS, AUGUST 2015



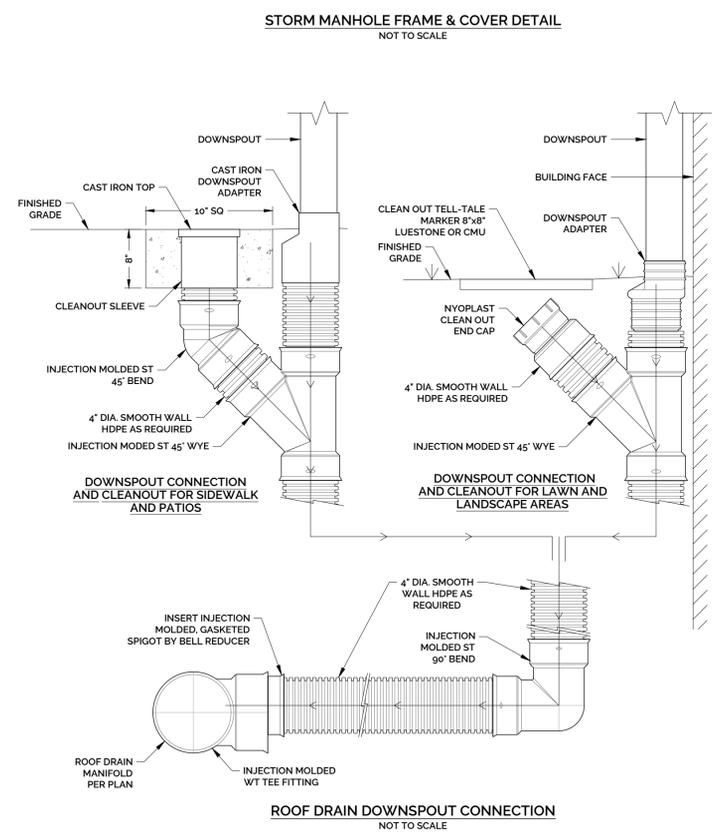
- NOTES:
- CATCH BASIN TOPS, CURBS AND GRATE COMPONENTS SHALL CONFORM TO CT DOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.07 AND HW-507.08, AS AMENDED.
 - REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CT DOT STANDARDS & SUPPLEMENTALS AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
 - ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M6.03 OF CONNECTICUT STANDARD SPECIFICATIONS.
 - TYPE "C" CATCH BASIN DEPRESSED GUTTER STRIPS SHALL CONFORM TO CT DOT STANDARD SHEET HW-507.01, AS AMENDED.
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04, HW-507.07 & HW-507.08, CT DOT FORM 817, AND UNITED CONCRETE PRODUCTS, AUGUST 2015.



- NOTES:
- TRAP HOODS SHALL BE CAST IRON FOR 10", 12", 15" AND 18" PIPE SIZES AND FABRICATED ALUMINUM FOR 21" OR GREATER.
 - ALL TRAP HOODS SHALL INCLUDE STAINLESS STEEL HOOKS OR HANGERS FOR MOUNTING TO THE CATCH BASIN WALL. BACK PLATES SHALL BE FURNISHED ONLY WHEN REQUESTED.
 - TRAP HOODS SHALL BE FROM CAMPBELL FOUNDRY, NEEHAW FOUNDRY, EAST JORDAN IRON WORKS OR APPROVED EQUAL. DIMENSIONS AND MODEL NUMBERS VARY BASED ON DISCHARGE PIPE SIZE AND MANUFACTURER.
 - SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS.



- NOTES:
- STORM MANHOLE FRAMES AND COVERS SHALL CONFORM TO CT DOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.10, AS AMENDED.
 - CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY, UNLESS OTHERWISE DIRECTED.
 - A FRAME OF 3'-3" WITH 4" FLANGE SHALL BE USED WHEN THE TOP DIAMETER OF A PRECAST CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
 - ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.
- REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507.04 & HW-507.10, CT DOT FORM 817.



- NOTES:
- 4" DIA. SMOOTH WALL HDPE AS REQUIRED
 - INJECTION MOLDED ST 90° BEND

TEST PIT RESULTS
DATE: MARCH 27, 2025
RECORDED BY: SEAMUS MORAN, P.E.
(H-H ENGINEERING ASSOCIATES, LLC)

TEST HOLE 101	DEPTH	SOIL TYPE
0'-11"	0'-05"	TOPSOIL
11'-28"	05'-23"	ORANGE-BROWN FINE SANDY LOAM
28'-40"	23'-88"	MEDIUM SAND W/ COBBLES
40'-48"	48'-70"	BROWN VERY FINE SAND W/ SILT
48'-75"	75'-120"	TAN FINE-MEDIUM SAND
NO MOTTLING NO GROUNDWATER NO LEDGE		

TEST HOLE 102	DEPTH	SOIL TYPE
0'-11"	0'-05"	TOPSOIL
11'-30"	05'-23"	ORANGE-BROWN FINE SANDY LOAM
30'-53"	23'-88"	GRAY VERY FINE SAND W/ SILT
53'-65"	65'-100"	BROWN VERY FINE SAND
65'-73"	73'-93"	TAN FINE SAND
73'-93"	93'-100"	BROWN-GRAY COARSE SAND & GRAVEL
MOTTLING @ 38" (PERCHED GROUNDWATER) NO GROUNDWATER NO LEDGE		

TEST HOLE 103	DEPTH	SOIL TYPE
0'-18"	0'-09"	TOPSOIL
18'-30"	09'-38"	BROWN SANDY LOAM
30'-35"	38'-92"	GRAY VERY FINE SAND W/ SILT
35'-55"	92'-109"	BROWN SANDY LOAM
55'-80"	109'-104"	ORANGE-BROWN COARSE SAND & GRAVEL
MOTTLING @ 36" (POSSIBLY PERCHED GROUNDWATER) NO GROUNDWATER NO LEDGE ROOTS TO 61"		

TEST HOLE 104	DEPTH	SOIL TYPE
0'-8"	0'-06"	TOPSOIL
8'-28"	06'-30"	ORANGE-BROWN FINE SANDY LOAM
28'-33"	30'-88"	GRAY VERY FINE SAND W/ SILT
33'-55"	88'-104"	FRAGMENTED ROCK
55'-90"	104'-114"	DARK GRAY/BROWN COARSE SAND
MOTTLING @ 31" (PERCHED GROUNDWATER) NO GROUNDWATER NO LEDGE ROOTS TO 61"		

TEST HOLE 105	DEPTH	SOIL TYPE
0'-16"	0'-12"	TOPSOIL
16'-50"	12'-29"	ORANGE-BROWN FINE-MEDIUM SAND
50'-68"	29'-74"	BROWN VERY FINE SANDY LOAM W/ SILT
68'-92"	74'-96"	BROWN FINE SAND
NO MOTTLING GROUNDWATER @ 88" NO LEDGE ROOTS TO 61"		

PERMEABILITY RESULTS
DATE: MARCH 27, 2025
COLLECTED BY: SEAMUS MORAN, P.E.
(H-H ENGINEERING ASSOCIATES, LLC)
TESTED BY: CLA ENGINEERS
TESTING METHOD: FALLING HEAD PERMEABILITY TEST

TEST HOLE	SAMPLE DEPTH (INCHES)	PERMEABILITY (FT/DAY)
101	30	13.0
102	27	0.1
104	33	3.8
105	30	8.2

DEEP TEST HOLE NOTES:

TEST HOLES WERE PERFORMED ON OCTOBER 10, 2024 AND WITNESSED BY JACOB FAULISE, E.I.T. OF BOUNDARIES LLC.

TP#1

0'-05"	TOPSOIL
05'-23"	BROWN SANDY LOAM
23'-88"	GRAY COMPACT SAND & GRAVEL W/ MEDIUM TO LARGE ROCKS

LEGE @ 74", NO GROUNDWATER, NO MOTTLING, ROOTS TO 23"

TP#2

0'-05"	TOPSOIL
05'-14"	BROWN SANDY LOAM
14'-70"	LIGHT GRAY COMPACT FINE SANDY GRAVEL W/ MEDIUM TO LARGE ROCKS
70'-120"	GRAY SAND & GRAVEL W/ COBBLES

NO LEDGE, NO GROUNDWATER, NO MOTTLING, ROOTS TO 14"

TP#3

0'-05"	TOPSOIL
05'-20"	BROWN SANDY LOAM
20'-80"	LIGHT GRAY COMPACT SAND & GRAVEL W/ MEDIUM TO LARGE ROCKS
80'-96"	LIGHT GRAY SAND & GRAVEL W/ MEDIUM ROCKS

NO LEDGE, NO GROUNDWATER, NO MOTTLING, ROOTS TO 20"

TP#4

0'-10"	TOPSOIL
10'-42"	BROWN SANDY LOAM
42'-60"	LIGHT GRAY FINE SANDY GRAVEL
60'-100"	GRAY SAND & GRAVEL W/ COBBLES

NO LEDGE, NO GROUNDWATER, POSSIBLE MOTTLING @ 60", ROOTS TO 42"

TP#5

0'-10"	TOPSOIL
10'-34"	BROWN SANDY LOAM
34'-64"	LIGHT GRAY FINE SANDY GRAVEL W/ COBBLES
64'-96"	COMPACT GRAY SAND & GRAVEL W/ MEDIUM ROCKS

NO LEDGE, NO GROUNDWATER, NO MOTTLING, ROOTS TO 34"

TP#6

0'-09"	TOPSOIL
09'-38"	BROWN SANDY LOAM
38'-92"	LIGHT GRAY SAND & GRAVEL W/ COBBLES
92'-109"	GRAY SAND & GRAVEL W/ COBBLES

NO LEDGE, NO GROUNDWATER, NO MOTTLING, ROOTS TO 38"

TP#7

0'-10"	TOPSOIL
10'-35"	BROWN SANDY LOAM
35'-72"	LIGHT GRAY SAND & GRAVEL W/ COBBLES
72'-104"	GRAY SAND & GRAVEL W/ COBBLES

NO LEDGE, NO GROUNDWATER, MOTTLING @ 35", ROOTS TO 25"

TP#8

0'-06"	TOPSOIL
06'-22"	DARK BROWN SANDY LOAM
22'-77"	GRAY COMPACT SAND & GRAVEL W/ MEDIUM ROCKS

POSSIBLE LEDGE @ 77", NO GROUNDWATER, NO MOTTLING, ROOTS TO 53"

TP#9

0'-06"	DARK TOPSOIL
06'-30"	BROWN SANDY LOAM
30'-88"	GRAY COMPACT SAND & GRAVEL W/ MEDIUM ROCKS

POSSIBLE LEDGE @ 88", NO GROUNDWATER, MOTTLING @ 30", ROOTS TO 30"

TP#10

0'-12"	TOPSOIL
12'-31"	TAN SANDY LOAM
31'-52"	TAN SANDY GRAVEL W/ COBBLES
52'-114"	TAN SAND & GRAVEL W/ COBBLES

NO LEDGE, NO GROUNDWATER, POSSIBLE MOTTLING @ 52", ROOTS TO 52"

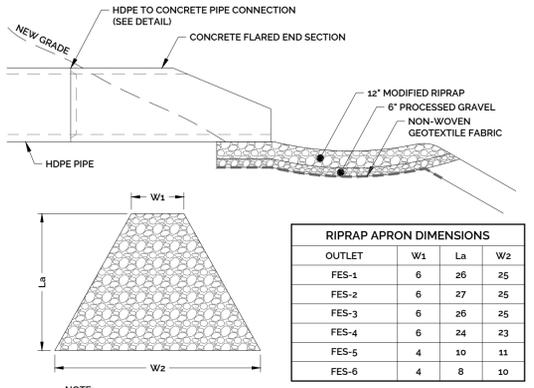
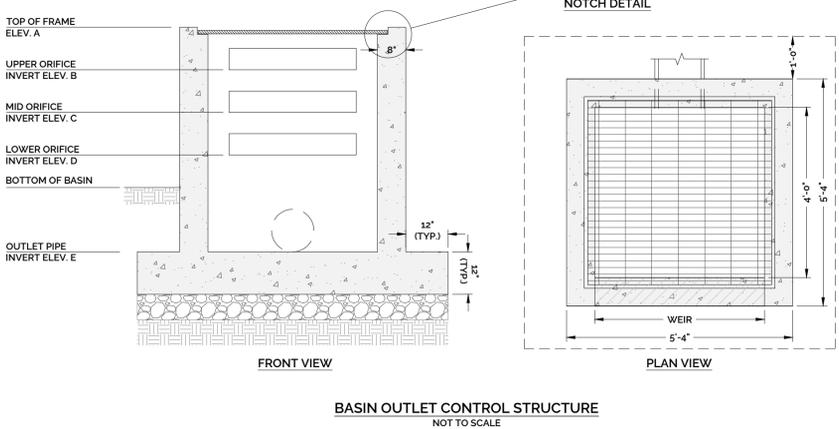
TP#11

0'-12"	TOPSOIL
12'-29"	TAN SANDY LOAM
29'-74"	TAN SANDY GRAVEL W/ COBBLES
74'-96"	TAN COMPACT SAND & GRAVEL W/ COBBLES

POSSIBLE LEDGE @ 96", NO GROUNDWATER, NO MOTTLING, ROOTS TO 74"

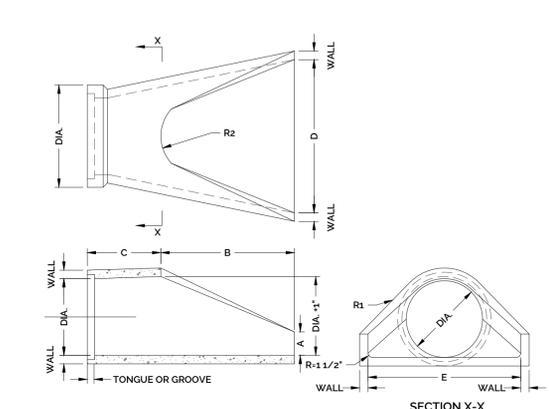
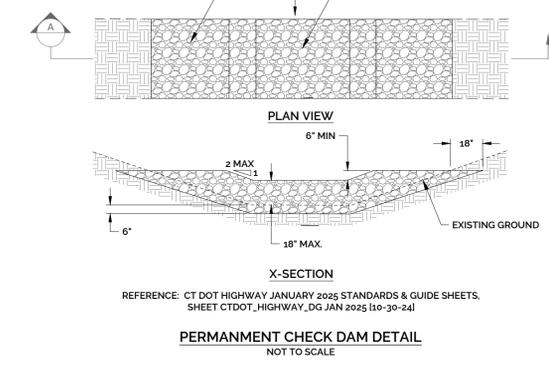
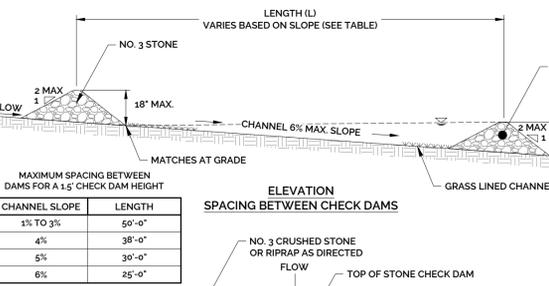
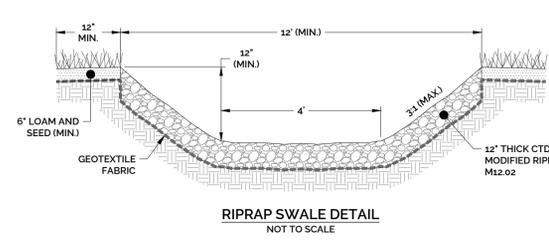
OUTLET CONTROL STRUCTURE ELEVATION SUMMARY TABLE

STRUCTURE ID	TOP OF FRAME ELEV. A	UPPER ORIFICE INVERT ELEV. B	MIDDLE ORIFICE INVERT ELEV. C	LOWER ORIFICE INVERT ELEV. D	OUTLET PIPE INVERT ELEV. E
OCS-1	356.25	---	---	355.75 (48"W x 6"H)	345.00 (24")
OCS-2	346.65	346.25 (48"W x 6"H)	---	344.35 (5" DIA. OPENING)	339.00 (24")
OCS-3	342.00	340.90 (48"W x 6"H)	338.70 (48"W x 6"H)	337.75 (5" DIA. OPENING)	335.00 (21")
OCS-4	391.25	390.70 (24"W x 6"H)	389.00 (10"W x 4"H)	388.10 (4" DIA. OPENING)	385.50 (15")



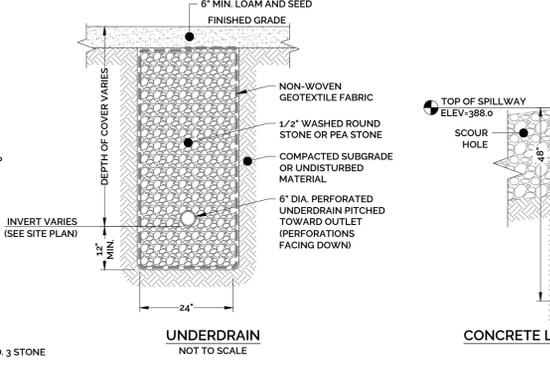
RIPRAP APRON DIMENSIONS

OUTLET	W1	La	W2
FES-1	6	26	25
FES-2	6	27	25
FES-3	6	26	25
FES-4	6	24	23
FES-5	4	10	11
FES-6	4	8	10



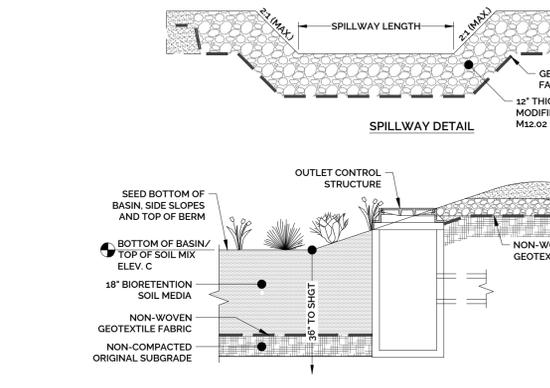
REINFORCED CONCRETE FLARED END SECTION

DIA.	A	B	C	D	E	R1	R2
12"	4"	24"	48 7/8"	24"	3"	10 1/4"	9"
15"	6"	27"	46"	30"	3"	12 1/2"	11"
18"	8"	27"	45"	36"	3"	15 1/2"	12"
24"	9 1/2"	43 1/2"	39"	48"	3"	16 13/16"	14"
30"	12"	54"	19 3/4"	60"	3 1/2"	18 1/2"	15"
36"	15"	63"	34 3/4"	72"	4"	24 5/16"	20"
42"	21"	63"	35"	78"	4 1/2"	27 1/2"	22"
48"	24"	72"	26"	84"	5	28 1/2"	22"
54"	27"	65"	35"	90"	5 1/2"	33 1/8"	24"
60"	30"	60"	39"	96"	6"	36 11/16"	24"



BASIN ELEVATIONS

BASIN ID	TOP OF BERM ELEV. A	TOP OF SPILLWAY ELEV. B	BOT. OF BASIN ELEV. C
WATER QUALITY BASIN	357.00	356.50	354.00
BASIN 'A'	347.50	347.00	343.00
BASIN 'B'	344.00	343.00	337.50
BASIN 'C'	392.00	391.50	387.50

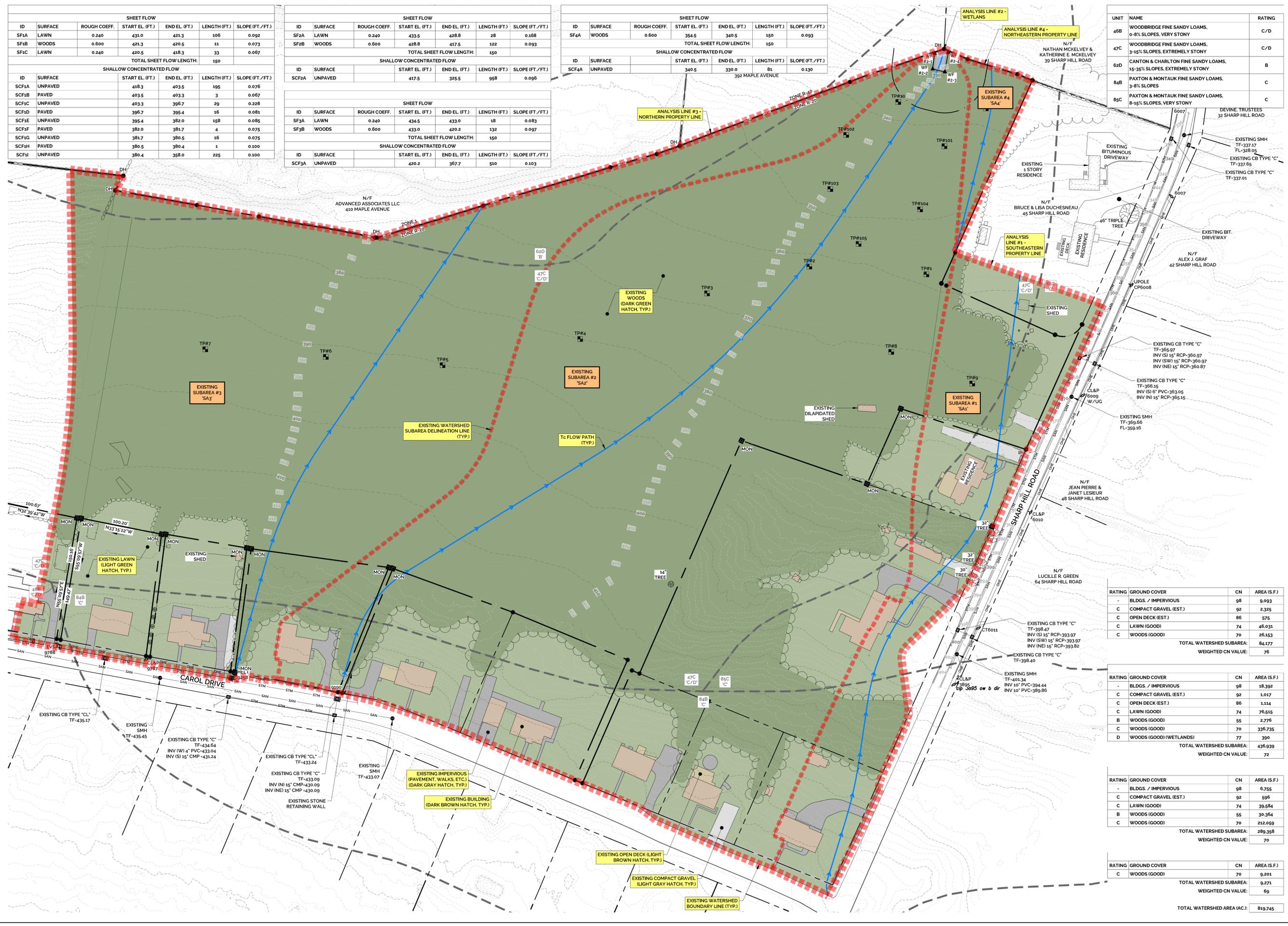


- BIORETENTION BASIN CONSTRUCTION SEQUENCE:**
- REMOVE EXISTING TOPSOIL, SURFACE LEAF LITTER, ETC. FROM BIORETENTION BASIN AREA AND STOCKPILE FOR REUSE.
 - AVOID COMPACTION OF NATURAL SOILS WITHIN BOTTOM AREA OF BIORETENTION BASIN BY CONSTRUCTION EQUIPMENT. THE AREA OF THE BIORETENTION BASIN SHALL BE MARKED OFF BY APPROPRIATE FENCING TO PREVENT THE MOVEMENT OF CONSTRUCTION VEHICLES OVER AND THE POSSIBLE COMPACTION OF THE NATURAL SOILS.
 - SCARIFY NATURAL SOILS WITHIN THE BOTTOM OF BASIN PRIOR TO PLACING SOIL MEDIA.
 - MIX BIORETENTION SOIL MEDIA. SOIL MEDIA SHALL CONSIST OF THE FOLLOWING:
 - 60-85% ASTM C-33 SAND
 - 15-25% TOPSOIL. TOPSOIL SHOULD CONTAIN 5-20% ORGANIC MATERIAL, HAVE LESS THAN 5% CLAY, BE A SANDY LOAM, LOAMY SAND OR LOAM, AND HAVE A pH RANGE OF 5.5-7.0.
 - 3-8% ORGANIC MATTER. ORGANIC MATTER SHALL CONSIST OF PARTIALLY DECOMPOSED PEAT MOSS 100% PASSING THE 1/2" SIEVE OR WOOD DERIVATIVES (SHREDDED WOOD, WOOD CHIPS, GROUND BARK).
 - SOIL MEDIA PROVIDE FOR A MINIMUM INFILTRATION RATE OF 1.0 INCHES/HOUR. CONTRACTOR SHALL HAVE THE SOIL MEDIA TESTED PRIOR TO PLACEMENT. THE DESIGN ENGINEER SHALL REVIEW AND CERTIFY THAT THE SOIL MEDIA MEETS THE SOIL MEDIA SPECIFICATIONS.
 - PLACE SOIL MEDIA IN THE BASIN IN 6-12" LIFTS USING LIGHT EQUIPMENT. ALLOW SOIL TO SETTLE NATURALLY THROUGH RAIN EVENTS OR PROSOAK AFTER PLACEMENT.
 - SIDE SLOPES AND ALL AREAS DISTURBED OUTSIDE THE BASIN SHALL BE FINE GRADED WITH 6" TOPSOIL, RAKED, SEED, AND MULCHED.
 - SEED BOTTOM OF BASIN WITH NEW ENGLAND WETLAND PLANTS, INC. ROADSIDE SEED MIX AT 1 LB/1,250 S.F. OR EQUIVALENT. SEED SIDES AND BOTTOM WITH NEW ENGLAND WETLAND PLANTS, INC. EROSION CONTROL/RESTORATION MIX FOR DRY SITES SEED MIX AT 1 LB/1,250 S.F. OR EQUIVALENT. SEEDING SHALL BE QUICKLY ESTABLISHED AND MAINTAINED TO PREVENT ANY SILT ACCUMULATION ALONG THE BOTTOM OF THE BASIN. MINIMUM VEGETATIVE COVERAGE OF 90% SHALL BE TARGETED AND MAINTAINED.
 - BIORETENTION BASIN SHALL NEVER BE USED FOR SEDIMENT CONTROL DURING AN ACTIVE CONSTRUCTION PERIOD.
 - DURING CONSTRUCTION, SEDIMENT SHALL BE PREVENTED FROM ENTERING THE AREA OF THE BASIN. THE CONTRACTOR SHALL ENSURE THAT THE AREAS DRAINING TO THE BIORETENTION BASIN ARE STABILIZED IN A TIMELY MANNER AND MAINTAINED OVER THE ENTIRE AREA DRAINING TO THE BASIN.
 - DESIGN ENGINEER SHALL INSPECT THE INSTALLATION OF THE BIORETENTION BASIN DURING THE FOLLOWING STAGES OF CONSTRUCTION:
 - AFTER EXCAVATION OF THE BASIN AND SCARIFICATION OF BOTTOM AND SIDEWALLS OF EXCAVATION.
 - AFTER PLACEMENT OF BIORETENTION SOIL MEDIA.
 - A LICENSED LAND SURVEYOR SHALL PROVIDE AN AS-BUILT OF THE BIORETENTION BASINS. DESIGN ENGINEER SHALL PROVIDE INSPECTION SERVICES AND PROVIDE A LETTER OF COMPLIANCE TO THE TOWN OF MONTVILLE THAT CONSTRUCTION OF THE STORMWATER MANAGEMENT IMPROVEMENTS ARE IN COMPLIANCE WITH THE DESIGN SPECIFICATIONS ON THE DESIGN PLANS.
- BIORETENTION BASIN MAINTENANCE PLAN:**
- IN THE FIRST 6 MONTHS FOLLOWING CONSTRUCTION, THE BIORETENTION BASIN SHALL BE INSPECTED AFTER STORM EVENTS OF 1" OR GREATER. FOLLOWING THE FIRST 6 MONTHS, THE BASIN SHALL BE INSPECTED EVERY 6 MONTHS (SPRING AND FALL) AND/OR AFTER STORM EVENTS OF 2" OR GREATER. INSPECTIONS SHALL INCLUDE THE FOLLOWING:
 - INSPECT SOIL MEDIA FOR STANDING WATER OR OTHER EVIDENCE OF CLOGGING.
 - CHECK FOR SEDIMENT ACCUMULATION, TRASH AND DEBRIS.
 - CHECK FOR BLOCKAGES, STRUCTURAL INTEGRITY, AND EVIDENCE OF EROSION AT INLETS/OUTLETS.
 - REGULAR MAINTENANCE INCLUDES THE FOLLOWING:
 - REMOVE SEDIMENT, TRASH AND DEBRIS.
 - REMOVE ACCUMULATED SEDIMENT FROM THE BASIN WHEN THE SEDIMENT ACCUMULATION EXCEEDS 1" OR WHEN DRAWDOWN TIME EXCEEDS 48 HOURS AFTER THE END OF A STORM EVENT. REPLACE WITH FRESH BIORETENTION SOIL MEDIA THAT CONFORMS TO THE SPECIFICATIONS IN THIS SECTION.
 - MAINTAIN VEGETATED FILTER STRIPS OR GRASSED SIDE SLOPES OF BIORETENTION SYSTEM.
 - MOW THE BASIN IN THE FALL AFTER THE FIRST KILLING FROST TO REMOVE SAPPLINGS AND WOODY BRUSH AND SUBSEQUENT PERIODIC MOWING FOR MAINTENANCE. MOWING SHOULD NOT BE PERFORMED WHEN THE GROUND IS SOFT TO AVOID THE CREATION OF RUTS AND COMPACTION, WHICH CAN REDUCE INFILTRATION.
 - PERIODICALLY REMOVE GRASS CLIPPINGS TO PREVENT CLOGGING OF THE SURFACE OF THE BIORETENTION SYSTEM.
 - REMOVE ANY INVASIVE SPECIES (INCLUDING ROOTS) THAT HAVE BECOME ESTABLISHED WITHIN THE BASIN AND EMBANKMENTS.
 - BIORETENTION BASIN REQUIRES OTHER SEASONAL LANDSCAPE MAINTENANCE INCLUDING:
 - WATERING PLANTS AS NECESSARY DURING FIRST GROWING SEASON.
 - WATERING AS NECESSARY DURING DRY PERIODS.
 - REPLACING DEAD OR DYING PLANTS, OR PRUNING PLANTS, AS NECESSARY.
 - INSPECTION OF SOIL AND REPAIRING ERODED AREAS.

REV.	DATE	DESCRIPTION OF REVISION
3	2/4/2025	REVISIONS TO ADDRESS CONDITIONS OF APPROVAL
2	11/12/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
1	8/15/2025	REVISIONS IN RESPONSE TO REVIEW COMMENTS
		DATE
		APPR.

STORMWATER MANAGEMENT DETAILS
23-Lot Residential Resubdivision
PROPERTY ADDRESS:
47 SHARP HILL ROAD, MONTVILLE, CT 06382
PREPARED FOR:
MT KINEO BUILDERS, LLC
P.O. BOX 246, WEST MYSTIC, CT 06388

PROJECT NO. 2025-0197	SCALE AS NOTED
DRAWN BY: SMH	DATE 7/10/2025
CHECKED BY: SMH	DATE 7/10/2025



SHEET FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SF1A	LAWN	0.240	431.0	421.3	106	0.092
SF1B	WOODS	0.600	421.3	420.5	11	0.073
SF1C	LAWN	0.240	420.5	418.3	33	0.067
TOTAL SHEET FLOW LENGTH:			150			
SHALLOW CONCENTRATED FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SCF1A	UNPAVED		418.3	403.5	195	0.076
SCF1B	PAVED		403.5	403.3	3	0.067
SCF1C	UNPAVED		403.3	396.7	29	0.228
SCF1D	PAVED		396.7	395.4	16	0.081
SCF1E	UNPAVED		395.4	382.0	168	0.085
SCF1F	PAVED		382.0	381.7	4	0.075
SCF1G	UNPAVED		381.7	380.5	16	0.075
SCF1H	PAVED		380.5	380.4	1	0.100
SCF1I	UNPAVED		380.4	358.0	225	0.100

SHEET FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SF2A	LAWN	0.240	433.5	428.8	28	0.168
SF2B	WOODS	0.600	428.8	417.5	122	0.093
TOTAL SHEET FLOW LENGTH:			150			
SHALLOW CONCENTRATED FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SCF2A	UNPAVED		417.5	325.5	958	0.096

SHEET FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SF4A	WOODS	0.600	354.5	340.5	150	0.093
TOTAL SHEET FLOW LENGTH:			150			
SHALLOW CONCENTRATED FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SCF4A	UNPAVED		340.5	330.0	81	0.130

SHEET FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SF3A	LAWN	0.240	434.5	433.0	18	0.083
SF3B	WOODS	0.600	433.0	420.2	132	0.097
TOTAL SHEET FLOW LENGTH:			150			
SHALLOW CONCENTRATED FLOW						
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SCF3A	UNPAVED		420.2	367.7	510	0.103

UNIT	NAME	RATING
46B	WOODBIDGE FINE SANDY LOAMS, 0-8% SLOPES, VERY STONY	C/D
47C	WOODBIDGE FINE SANDY LOAMS, 3-15% SLOPES, EXTREMELY STONY	C/D
62D	CANTON & CHARLTON FINE SANDY LOAMS, 15-35% SLOPES, EXTREMELY STONY	B
84B	PAXTON & MONTAUK FINE SANDY LOAMS, 3-8% SLOPES	C
85C	PAXTON & MONTAUK FINE SANDY LOAMS, 8-15% SLOPES, VERY STONY	C

RATING	GROUND COVER	CN	AREA (S.F.)
-	BLDGs. / IMPERVIOUS	98	9,093
C	COMPACT GRAVEL (EST.)	92	2,325
C	OPEN DECK (EST.)	86	575
C	LAWN (GOOD)	74	46,031
C	WOODS (GOOD)	70	26,153
TOTAL WATERSHED SUBAREA:			84,177
WEIGHTED CN VALUE:			76

RATING	GROUND COVER	CN	AREA (S.F.)
-	BLDGs. / IMPERVIOUS	98	18,392
C	COMPACT GRAVEL (EST.)	92	1,017
C	OPEN DECK (EST.)	86	1,114
C	LAWN (GOOD)	74	76,515
B	WOODS (GOOD)	55	2,776
C	WOODS (GOOD)	70	336,735
D	WOODS (GOOD) (WETLANDS)	77	390
TOTAL WATERSHED SUBAREA:			436,939
WEIGHTED CN VALUE:			72

RATING	GROUND COVER	CN	AREA (S.F.)
-	BLDGs. / IMPERVIOUS	98	6,756
C	COMPACT GRAVEL (EST.)	92	596
C	LAWN (GOOD)	74	39,684
B	WOODS (GOOD)	55	30,364
C	WOODS (GOOD)	70	212,059
TOTAL WATERSHED SUBAREA:			289,358
WEIGHTED CN VALUE:			70

RATING	GROUND COVER	CN	AREA (S.F.)
C	WOODS (GOOD)	70	9,201
TOTAL WATERSHED SUBAREA:			9,271
WEIGHTED CN VALUE:			69
TOTAL WATERSHED AREA (AC.):			819,745

SHEET FLOW					
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	SLOPE (FT./FT.)
SFA	LAWN	0.240	361.5	368.5	0.214
SFB	WOODS	0.600	359.5	354.8	0.116
TOTAL SHEET FLOW LENGTH:					46

SHEET FLOW					
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	SLOPE (FT./FT.)
SFA	LAWN	0.240	432.5	429.0	0.059
SFB	WOODS	0.600	429.0	418.3	0.118
TOTAL SHEET FLOW LENGTH:					150

SHALLOW CONCENTRATED FLOW					
ID	SURFACE	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SCF2A	UNPAVED	418.3	364.1	547	0.099

*PROP. SUBAREA #2B 'SA2B' IS THE INTERIOR OF THE BASIN, MORE OR LESS, THEREFORE USE 5.0 MIN. Tc

*PROP. SUBAREA #2C 'SA2C' IS THE INTERIOR OF THE BASIN, MORE OR LESS, THEREFORE USE 5.0 MIN. Tc

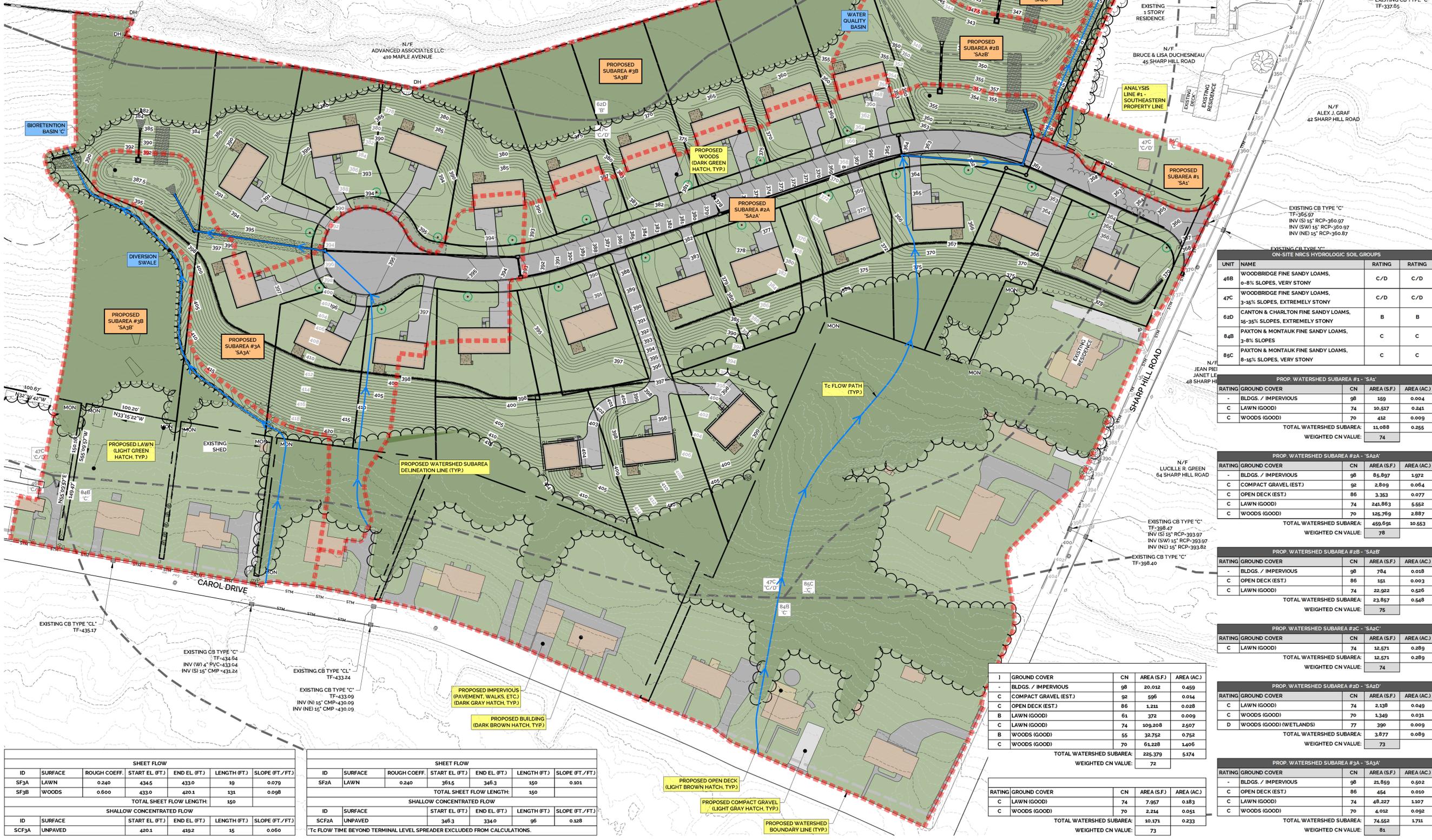
SHEET FLOW					
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	SLOPE (FT./FT.)
SFA	LAWN	0.240	344.0	336.0	0.250
SFB	WOODS	0.600	336.0	325.5	0.228
TOTAL SHEET FLOW LENGTH:					78

*CALCULATED Tc IS LESS THAN 10.0 MIN. USE 10.0 MIN. MINIMUM.

*CONSERVATIVELY, ASSUME Tc FOR OPEN CHANNEL FLOW THRU DRAINAGE PIPES IS ESSENTIALLY NEGLIGIBLE

SHEET FLOW					
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	SLOPE (FT./FT.)
SF3A	WOODS	0.600	425.0	417.8	0.081
SF3B	LAWN	0.240	417.8	404.0	0.226
TOTAL SHEET FLOW LENGTH:					150

SHALLOW CONCENTRATED FLOW					
ID	SURFACE	START EL. (FT.)	END EL. (FT.)	LENGTH (FT.)	SLOPE (FT./FT.)
SCF3A	UNPAVED	404.0	395.0	105	0.086
SCF3A	PAVED	395.0	394.0	70	0.014



ON-SITE NRCS HYDROLOGIC SOIL GROUPS			
UNIT	NAME	RATING	RATING
46B	WOODBIDGE FINE SANDY LOAMS, 0-8% SLOPES, VERY STONY	C/D	C/D
47C	WOODBIDGE FINE SANDY LOAMS, 3-15% SLOPES, EXTREMELY STONY	C/D	C/D
62D	CANTON & CHARLTON FINE SANDY LOAMS, 15-35% SLOPES, EXTREMELY STONY	B	B
84B	PAXTON & MONTAUK FINE SANDY LOAMS, 3-8% SLOPES	C	C
85C	PAXTON & MONTAUK FINE SANDY LOAMS, 8-15% SLOPES, VERY STONY	C	C

EXISTING CB TYPE 'C'			
UNIT	NAME	RATING	RATING
46B	WOODBIDGE FINE SANDY LOAMS, 0-8% SLOPES, VERY STONY	C/D	C/D
47C	WOODBIDGE FINE SANDY LOAMS, 3-15% SLOPES, EXTREMELY STONY	C/D	C/D
62D	CANTON & CHARLTON FINE SANDY LOAMS, 15-35% SLOPES, EXTREMELY STONY	B	B
84B	PAXTON & MONTAUK FINE SANDY LOAMS, 3-8% SLOPES	C	C
85C	PAXTON & MONTAUK FINE SANDY LOAMS, 8-15% SLOPES, VERY STONY	C	C

PROP. WATERSHED SUBAREA #1 - 'SA1'			
RATING	GROUND COVER	CN	AREA (AC.)
-	BLDGS. / IMPERVIOUS	98	169
C	LAWN (GOOD)	74	10,517
C	WOODS (GOOD)	70	412
TOTAL WATERSHED SUBAREA:		11,088	0.255
WEIGHTED CN VALUE:		74	

PROP. WATERSHED SUBAREA #2A - 'SA2A'			
RATING	GROUND COVER	CN	AREA (AC.)
-	BLDGS. / IMPERVIOUS	98	85,897
C	COMPACT GRAVEL (EST.)	92	2,809
C	OPEN DECK (EST.)	86	3,353
C	LAWN (GOOD)	74	241,863
C	WOODS (GOOD)	70	125,769
TOTAL WATERSHED SUBAREA:		459,691	10,653
WEIGHTED CN VALUE:		78	

PROP. WATERSHED SUBAREA #2B - 'SA2B'			
RATING	GROUND COVER	CN	AREA (AC.)
-	BLDGS. / IMPERVIOUS	98	784
C	OPEN DECK (EST.)	86	151
C	LAWN (GOOD)	74	22,922
TOTAL WATERSHED SUBAREA:		23,857	0.548
WEIGHTED CN VALUE:		75	

PROP. WATERSHED SUBAREA #2C - 'SA2C'			
RATING	GROUND COVER	CN	AREA (AC.)
C	LAWN (GOOD)	74	12,571
TOTAL WATERSHED SUBAREA:		12,571	0.289
WEIGHTED CN VALUE:		74	

PROP. WATERSHED SUBAREA #2D - 'SA2D'			
RATING	GROUND COVER	CN	AREA (AC.)
C	LAWN (GOOD)	74	2,138
C	WOODS (GOOD)	70	1,349
D	WOODS (GOOD) (WETLANDS)	77	390
TOTAL WATERSHED SUBAREA:		3,877	0.089
WEIGHTED CN VALUE:		73	

PROP. WATERSHED SUBAREA #3A - 'SA3A'			
RATING	GROUND COVER	CN	AREA (AC.)
-	BLDGS. / IMPERVIOUS	98	21,859
C	OPEN DECK (EST.)	86	454
C	LAWN (GOOD)	74	48,227
C	WOODS (GOOD)	70	4,012
TOTAL WATERSHED SUBAREA:		74,552	1.711
WEIGHTED CN VALUE:		81	

RATING	GROUND COVER	CN	AREA (S.F.)	AREA (AC.)
-	BLDGS. / IMPERVIOUS	98	20,012	0.459
C	COMPACT GRAVEL (EST.)	92	596	0.014
C	OPEN DECK (EST.)	86	1,221	0.028
B	LAWN (GOOD)	61	372	0.009
C	LAWN (GOOD)	74	109,208	2.507
B	WOODS (GOOD)	55	32,752	0.752
C	WOODS (GOOD)	70	61,228	1.406
TOTAL WATERSHED SUBAREA:		225,379	5.174	
WEIGHTED CN VALUE:		72		

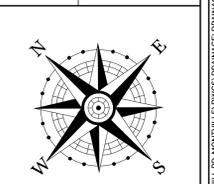
RATING	GROUND COVER	CN	AREA (S.F.)	AREA (AC.)
C	LAWN (GOOD)	74	7,957	0.183
C	WOODS (GOOD)	70	2,214	0.051
TOTAL WATERSHED SUBAREA:		10,171	0.233	
WEIGHTED CN VALUE:		73		

SHEET FLOW					
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	SLOPE (FT./FT.)
SFA	LAWN	0.240	434.5	433.0	0.079
SFB	WOODS	0.600	433.0	420.1	0.098
TOTAL SHEET FLOW LENGTH:					150

SHEET FLOW					
ID	SURFACE	ROUGH COEFF.	START EL. (FT.)	END EL. (FT.)	SLOPE (FT./FT.)
SFA	LAWN	0.240	361.5	346.3	0.101
TOTAL SHEET FLOW LENGTH:					150

REV.	DATE	DESCRIPTION OF REVISION
1	11/13/25	REVISIONS PER COMMENTS FROM TOWN

POST-DEVELOPMENT DRAINAGE AREA MAP
 23-Lot Residential Resubdivision
 PROPERTY ADDRESS:
 47 SHARP HILL ROAD, MONTVILLE, CONNECTICUT 06382
 PREPARED FOR:
MT KINEO BUILDERS, LLC
 P.O. BOX 246, WEST MYSTIC, CT 06388



PROJECT NO.	SCALE:
2025-0197	1" = 50'
DRAWN BY:	DATE:
REG	7/10/2025
CHECKED BY:	DATE:
SMM	7/10/2025

APPENDIX C

NDDB CORRESPONDENCE



CPPU USE ONLY	
App #:	_____
Doc #:	_____
Check #: No fee required	
Program: Natural Diversity Database Endangered Species	
Hardcopy _____	Electronic _____

Request for Natural Diversity Data Base (NDDDB) State Listed Species Review

This form was auto-populated with information provided through the DEEP ezFile portal NDDDB review application. **There are no fees associated with NDDDB Reviews.**

Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the [DEEP website](#). These maps are updated twice a year, usually in June and December.

This form is being submitted for a:

- New NDDDB request
- Renewal of a NDDDB Request **without modifications and within two years of issued NDDDB determination** (no attachments required)

[CPPU Use Only - NDDDB-Listed Species Determination # 1736]

- New **Safe Harbor Determination**; must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Attachment D of this form is required)
- Renewal/Extension of an existing Safe Harbor Determination
 - With modifications
 - Without modifications (no attachments required)

[CPPU Use Only - NDDDB-Safe Harbor Determination # 1736]

Enter NDDDB Determination Number for Renewal:

Enter Safe Harbor Determination Number for Renewal/Extension:

1. Does your project utilize federal funds or require a federal permit? Yes No

If yes, your project may be subject to Federal rules regarding the Northern long-eared bats or other federally listed species. Information on the Northern long-eared bat and the 4-D rule may be found at:

<http://www.fws.gov/midwest/endangered/mammals/nleb/>

Information on other federally listed species and Section 7 consultations may be found at:

<https://www.fws.gov/newengland/EndangeredSpec-Consultation.htm>

2. Does your project utilize state funding, involve state agency actions, or relate to a CEPA request?

Yes No

3. Does your project require state permits, licenses, registrations or authorizations? Yes No

If yes, list permit type(s): Stormwater Discharge - Construction

If an active enforcement action exists regarding this project, enter number:

If known, enter DEEP analysts reviewing this project:

II: Requester Information

If the requester is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of the State. If applicable, the name shall be stated **exactly as it is registered with the Secretary of the State. Please note, for those entities registered with the Secretary of the State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's Business Records Search. (<https://service.ct.gov/business/s/onlinebusinesssearch>)*

If the requester is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the [Request to Change company/Individual Information](#) to the address indicated on the form.

1. Requester*

Company Name: R & N Holding Company, LLC

Contact Name: Robert Hohfelder

Address: PO Box 246

City/Town: West Mystic

State: CT

Zip Code: 06388

Business Phone: 8607059299 Ext:

**E-mail: mtkineobuilders@att.net

****By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes**

a) Requester can best be described as:

Individual Federal Agency State agency

Municipality Tribal *business entity (* if a business entity complete i through iii):

i) Check type corporation limited liability company

limited partnership limited liability partnership

statutory trust

Other:

ii) Provide Secretary of the State Business ID #: This information can be accessed at the Secretary of the State's Business Records Search (<https://service.ct.gov/business/s/onlinebusinesssearch>)

iii) Check here if your business is **NOT** registered with the Secretary of the State's office.

b) Acting as (Affiliation), pick one:

Property owner

Consultant

Engineer

Facility owner

Applicant

Biologist

Pesticide Applicator

Other representative:

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

SITE NAME AND LOCATION

Project Name (for use in correspondence): Evergreen Hills Resubdivision

If your Project site has a street address, please enter below:

Street Address: 47 Sharp Hill Road

Town(s): Montville

If your Project has no street address, please enter a description of the site location:

Location Description:

Town(s):

Size in acres, or site dimensions: 12.84

Describe existing land conditions:

Part IV: Project Information

1. **Project Type:**

Choose Project Category: Construction, Development

Choose Project Type: Building and Infrastructure Development (including stormwater discharge associated with construction)

Choose Project Subtype: New Residential - subdivision

2. Brief Project Description:

3. Provide a schedule for all phases of the project including the year, the month that the proposed activity will be initiated and the duration of the activity.

4. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? Yes No If yes, add explanation in No. 4 below.

5. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

6. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests. Attachment C is required for requests associated with: new state or federal permit applications, modifications of existing permits, permit enforcement actions, site management/planning that requires details species recommendations, and state funded projects, state agency activities, and CEPA requests.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

<input checked="" type="checkbox"/> Attachment A:	Project Detail Map: an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrange Map clearly indicating the exact location of the site.
<input checked="" type="checkbox"/> Attachment B:	GIS file (for uploaded GIS polygons): fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document)
<input checked="" type="checkbox"/> Attachment C:	Supplemental Information (attached, DEEP-APP-007C): Site plans, photographs and biological reports
<input type="checkbox"/> Attachment D:	Safe Harbor Report Requirements (attached, DEEP-APP-007D)

Part VII: Requester Certification

The requester *and* the individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

<p>"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 the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."</p>	
<p>Hohlfelder Robert</p>	<p>2/2/2026</p>
<p>Signature of Preparer (a typed name will substitute for a handwritten signature)</p>	<p>Date</p>
<p>Hohlfelder Robert</p>	
<p>Name of Preparer (print or type)</p>	<p>Title (if applicable)</p>
<p>Signature of Preparer (if different than above)</p>	<p>Date</p>
<p>Name of Preparer (print or type)</p>	<p>Title (if applicable)</p>

Note: Please submit the completed Request Form and all Supporting Documents to:

CENTRAL PERMIT PROCESSING UNIT
 DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

Or email request to: deep.nddbrequest@ct.gov

Attachment C: Supplemental Information and Attachments

1. Existing & Proposed Conditions

If available provide site plans, drawings or imagery showing existing conditions and proposed changes. If not available, describe all natural and man-made features including wetlands, watercourses with direction of flow, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan.

Annotated Site Plan(s) attached

2. Photographs depicting site conditions can be helpful to reviewers. Provide and label photographs, if available.

Site Photographs (optional) attached

3. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species Yes No

If yes, submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms. Reports should include biologist(s) name, habitat and/or species targeted by survey, plant and animal species observed, dates when surveys were conducted.

Reports of biological surveys attached

Documentation of biologist's qualifications attached

[NDDB Survey forms](#) for any listed species observations attached

Attachment D: Safe Harbor Report Requirements

Submit a report, as Attachment D, that synthesizes and analyzes the information listed below. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1. Habitat Description and Map(s), including GIS mapping overlays, of a scale appropriate for the site, identifying:

- wetlands, including wetland cover types;
- plant community types;

- topography;
- soils;
- bedrock geology;
- floodplains, if any;
- land use history; and
- water quality classifications/criteria.

- 2. Photographs** - The report should include photographs of the site taken from the ground and also all reasonably available aerial or satellite photographs and an analysis of such photographs.
- 3. Inspection** - A visual inspection(s) of the site should be conducted, preferably when the ground is visible, and described in the report. This inspection can be helpful in confirming or further evaluating the items noted above.
- 4. Biological Surveys** - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.
- 5. Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity.** This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.
- 6. In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:**
 - Information on Site Disturbance Estimates/Site Alteration information
 - Vehicular Use
 - Construction Activity Phasing Schedules, if any; and
 - Alteration of Drainage Patterns



Generated by eNDDDB on:
2/2/2026

Robert Hohlfelder
R & N Holding Company, LLC
PO Box 246
West Mystic, CT 06388
mtkineobuilders@att.net

Subject: Evergreen Hills Resubdivision
Filing # 140731
NDDDB – New Determination Number: 202601234
47 Sharp Hill Road
Montville

Expiration Date: 2/2/2028

Based on current data maintained by the Natural Diversity Database (NDDDB) and housed in the DEEP ezFile portal, no extant populations of Federal or State Endangered, Threatened or Special Concern species (RCSA Sec. 26-306) are known to occur within the project area delineated for the Building and Infrastructure Development (including stormwater discharge associate with construction) / New Residential - subdivision, Evergreen Hills Resubdivision.

This NDDDB – New determination may be utilized to fulfill the Endangered and Threatened Species requirements for state-issued permit applications, licenses, registration submissions, and authorizations. However, please be aware of the following limitations and conditions:

- This determination does not preclude the possibility that listed species may be encountered on site. Should this occur, a report must be submitted to the Natural Diversity Database promptly and additional action may be necessary to remain in compliance with certain state permits. Please fill out the [appropriate survey form](#) and follow the instructions for submittal.
- If your project involves preparing an Environmental Impact Assessment, this NDDDB consultation and determination should not be substituted for conducting biological field surveys assessing on-site habitat and species presence.
- This determination applies only to the project as described in the submission and summarized at the end of this letter. Please re-submit an updated Request for Review if the project's scope of work and/or timeframe changes, including if work has not begun by 2/2/2028.

The NDDDB – New determination for the Evergreen Hills Resubdivision at 47 Sharp Hill Road, Montville as described in the submitted information and summarized at the end of this document is valid for two years from the date on this letter.

Natural Diversity Database information includes all information regarding listed species 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 Natural History Survey and cooperating units of DEEP, land owners, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. 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 into the Database and accessed through the ezFile portal as it becomes available.

This letter is computer generated and carries no signature. If however, any clarification is needed, or if you have further questions, please contact the following:

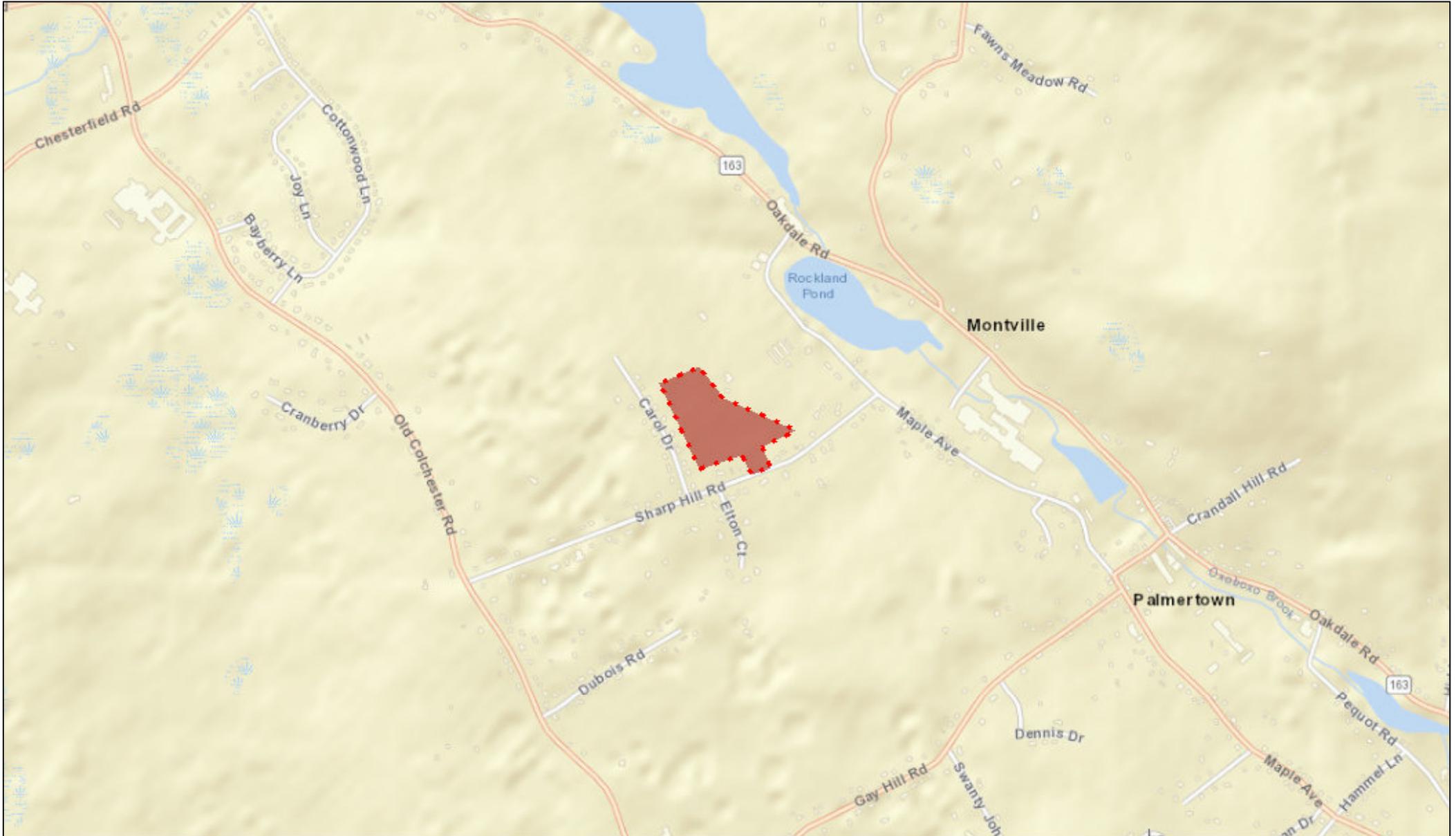
CT DEEP Bureau of Natural Resources
Wildlife Division
Natural Diversity Database
79 Elm Street, 6th floor
Hartford, CT 06106-5127
(860) 424-3011
deep.nddbrequest@ct.gov

Please reference the Determination Number provided in this letter when you e-mail or write. Thank you for submitting your project through DEEP's ezFile portal for Natural Diversity Database reviews.

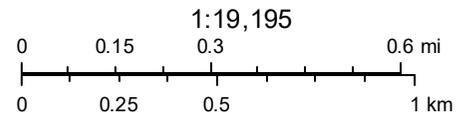
Application Details:

Project involves federal funds or federal permit:	No
Project involves state funds, state agency action, or relates to CEPA request:	No
Project requires state permit, license, registration, or authorization:	Yes
DEEP enforcement action related to project:	
Project Type:	Building and Infrastructure Development (including stormwater discharge associate with construction)
Project Sub-type:	New Residential - subdivision
Project Name:	Evergreen Hills Resubdivision
Project Description:	

Evergreen Hills Resubdivision Map



February 2, 2026



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

APPENDIX D

SHPO CORRESPONDENCE

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX G

Historic Preservation Review

Chapter 184a, Section 10-387 of the Connecticut General Statutes states that DEEP shall review, in consultation with the State Historic Preservation Office (“SHPO”) within the Department of Economic and Community Development, its policies and practices for consistency with the preservation and study of the state’s archaeological and historical sites. Pursuant to this requirement, DEEP has outlined the following process for assessing the potential for a proposed development to impact these important resources. DEEP advises a review for resources identified below to *be initiated up to one year* prior to application for this permit and in conjunction with the local project approval process.

Question No. 1

Will the proposed project be authorized under an Army Corps of Engineers Section 404 wetland permit?

- Yes – Stop here – the Section 404 permit will satisfy all requirements for Appendix G
 No – Please answer the following questions

Question No. 2

Is the project site within an area of significance?

- Yes No Do Not Know or Unable to Determine

This can be determined by consulting the Public Viewer at: <https://conncris.ct.gov/>

Question No. 3

Does the area of anticipated construction or ground disturbance include soils defined by the United States Department of Agriculture as "Loam, Sandy Loam, or Loamy Sand" that also may be Fine or Gravelly with slopes less than or equal to 15% (Soil mapping information is available at: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>)?

- Yes No Do Not Know or Unable to Determine

Question No. 4

Are there buildings or structures over 50 years in age within the project site or evidence of prior human land use (i.e., buildings foundations, wells, stone walls, or other built stone features)?

- Yes No Do Not Know or Unable to Determine

The northern boundary of the property is almost entirely defined with a stone wall.

How to Proceed

If you answered “Yes” or “Do Not Know or Unable to Determine” to any or all of Questions 2, 3, or 4 above; please request an opinion by completing the form at the following location: <https://arcg.is/1m8G0L3>

If you answered “No” to each one of Questions 2, 3, or 4 above; report in the Application Form for the General Permit for the Discharge of Stormwater from Construction Activities that a self-review has been conducted and report the results provided above.

January 22, 2026

Jacob Faulise, PE
Boundaries, LLC
P.O. Box 184
Griswold, CT 06351
(sent via email only to jf Faulise@boundariesllc.net)

Subject: Proposed Residential Subdivision Project
43 Sharp Hill Road
Montville, Connecticut

Dear Jacob Faulise:

The State Historic Preservation Office (SHPO) has reviewed your request for information concerning the potential effects to historic properties associated with the referenced project. SHPO understands that the proposed project will entail the construction of a 23-lot residential subdivision on a parcel at the referenced address. Project plans include the construction of single family homes, utilities, drainage structures, and roadways. The project will require a stormwater discharge permit issued by the Connecticut Department of Energy and Environmental Protection through the authority of the Environmental Protection Agency. As a result, it is subject to review by this office pursuant to Section 106 of the National Historic Preservation Act, as amended.

There are no previously recorded archaeological sites or properties listed on the National Register of Historic Places (NRHP) within or in close proximity to the Area of Potential Effect (APE) for the project. The lack of previously recorded archaeological sites in the vicinity is likely the result of a lack of prior professional survey. Further, SHPO considers areas around the APE to retain archaeological sensitivity. However, project plans indicate that the proposed activities will be confined to previously disturbed areas and areas not well correlated with archaeological deposits. As a result, it is unlikely that significant archaeological resources will be impacted by the proposed actions. Based on the information provided to our office, it is SHPO's opinion that no historic properties will be affected by this undertaking.

SHPO appreciates the opportunity to comment upon this project and we look forward to continuing consultation. Do not hesitate to contact Cory Atkinson, Staff Archaeologist and Environmental Reviewer, for additional information at (860) 500-2458 or cory.atkinson@ct.gov.

Sincerely,



Jonathan Kinney
State Historic Preservation Officer

APPENDIX E

INSPECTION REPORTS

APPENDIX E

Stormwater Construction Site Inspection Report

General Information			
Project Name	Evergreen Hills Resubdivision		
NPDES Tracking No.		Location	
Date of Inspection		Start/End Time	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction			
Type of Inspection:			
<input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event			
Weather Information			
Has there been a storm event since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, provide:			
Storm Start Date & Time:	Storm Duration (hrs):	Approximate Amount of Precipitation (in):	
Weather at time of this inspection?			
<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snowing <input type="checkbox"/> High Winds			
<input type="checkbox"/> Other: _____ Temperature: _____			
Have any discharges occurred since the last inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, describe:			
Are there any discharges at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No			
If yes, describe:			

Site-specific BMPs

- *Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.*
- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	Anti-Tracking Pad	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Stockpile Areas	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Catch Basin Inlet Protection	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Temporary Sediment Trap	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Perimeter Barrier at Entrance	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Perimeter Barrier Bioretention Basins A & B	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	Perimeter Barrier Downgradient of Road	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Perimeter Barrier Bioretention Basin C	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	Downgradient Diversion Swale	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Upgradient Diversion Swale	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	Diversion Swale Check Dams	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	Bioretention Basin A Outlet	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13	Bioretention Basin B Outlet	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
14	Bioretention Basin C Outlet	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15	Diversion Swale Outlet Riprap/Level Spreader	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
16		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
17		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
18		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
19		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
20		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Are discharge points and receiving waters free of any sediment deposits?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Is the construction exit preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Non-Compliance

Describe any incidents of non-compliance not described above:

CERTIFICATION STATEMENT

“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 gathered and evaluated 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 submitted 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.”

Print name and title:

Signature: _____

Date: _____

APPENDIX F

LOG OF CORRECTIVE ACTIONS AND AMENDMENTS TO SPCP

APPENDIX F Corrective Action and SPCP Amendment Log

Project Name: **Evergreen Hills Resubdivision**
SPCP Contact:

Amendment No.	Description of the BMP Deficiency and Corrective Action or SPCP Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

APPENDIX G

GRADING AND STABILIZATION ACTIVITIES LOG

APPENDIX H

SUBCONTRACTOR CERTIFICATIONS/AGREEMENTS

Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION

STORMWATER POLLUTION CONTROL PLAN

Project Number: _____

Project Title: Evergreen Hills Resubdivision

Operator(s): R & N Holding Company, LLC (Rob Hohlfelder)

As a subcontractor, you are required to comply with the Stormwater Pollution Control Plan (SWPCP) for any work that you perform on-site. Any person or group who violates any condition of the SWPCP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPCP. A copy of the SWPCP is available for your review on-site.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above-named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____

APPENDIX I

SPCP TRAINING LOG

Stormwater Pollution Control Plan Training Log

Stormwater Pollution Control Training Log

Project Name: Evergreen Hills Resubdivision

Project Location: 47 Sharp Hill Road, Montville, CT

Instructor's Name(s): _____

Instructor's Title(s): _____

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

- Erosion Control BMPs**
- Sediment Control BMPs**
- Non-Stormwater BMPs**
- Emergency Procedures**
- Good Housekeeping BMPs**

Specific Training objective: _____

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

APPENDIX J

NOTICE OF TERMINATION FORM



**Connecticut Department of
Energy & Environmental Protection**
Bureau of Materials Management & Compliance Assurance
Water Permitting & Enforcement Division

**General Permit for the Discharge of Stormwater and Dewatering Wastewaters from
Construction Activities**

Notice of Termination Form: Non-Solar Projects

This Notice serves as a request to terminate the below listed permit as well as any applicable Letter(s) of Credit.

Part I: Permittee Information

The below information is required in accordance with Section 6(b) of the General Permit.

1. Permit Number: GSN

2. Registrant:

3. Site Address:

City/Town: State: Zip Code:

4. Date of completion of construction:

Date all storm drainage structures were cleared of construction
sediment and debris:

Beginning and Ending Dates of post-construction inspections:

Date of final stabilization inspection(s)*:

Qualified Inspector who conducted
the Final Stabilization Inspection:
(This person must sign Part III)

5. Check the post-construction activity(ies)** at the site (check all that apply):

Industrial Residential Capped Landfill

Commercial Solar Array Other:

* The Final Stabilization Inspection must occur at least one full growing season after final stabilization has been achieved. A full growing season is defined as the timeframe encompassed by two consecutive full seeding seasons: April 1 through June 15, and August 15 through October 1. If final stabilization is achieved during a seeding season, the following seeding season will be considered the first full seeding season after final stabilization has been achieved.

** If the post-construction activity involves solar arrays, the Department may require that the "Solar Projects: Notice of Termination Form" be used. Any questions regarding the necessity of such a form for the project can be sent via email to DEEP.StormwaterStaff@ct.gov.

Locally Approvable Projects Must Complete the following Part II - (Attach additional sheets as needed)

Part II: Locally Approvable Post-Construction Inspection Certification

The below information is required in accordance with Section 5(b)(4)(C)(i) of the General Permit.

Certification by a Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional / District Representative

“I hereby certify that I am a qualified professional engineer / a qualified soil erosion and sediment control professional / a representative of the District in which the site is located as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that all post-construction measures have been installed as specified in the permittee’s Stormwater Pollution Control Plan and in accordance with Section 5(b)(2)(C) of the general permit and that all such measures have been cleaned of construction sediment and debris. I understand that this certification is part of a registration submitted in accordance with section 22a-430b of Connecticut General Statutes 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 Connecticut General Statutes and any other applicable law.”

Signature of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional / Representative of the District

Date

Printed Name of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional / Representative of the District

Title

Check off the qualifications of the signatory of the above part:

- Qualified Professional Engineer
 Qualified Soil Erosion and Sediment Control Professional
 Representative of the District

Locally Exempt Projects Must Complete the following Part II - (Attach additional sheets as needed)

Part II: Locally Exempt Post-Construction Inspection Certification

The below information is required in accordance with Section 5(b)(4)(C)(ii) of the General Permit.

Certification by a Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional

"I hereby certify that I am a qualified professional engineer / a qualified soil erosion and sediment control professional as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that all post-construction measures have been installed as specified in the permittee's Stormwater Pollution Control Plan and in accordance with Section 5(b)(2)(C) of the general permit and that all such measures have been cleaned of construction sediment and debris. I understand that this certification is part of a registration submitted in accordance with section 22a-430b of Connecticut General Statutes 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 Connecticut General Statutes and any other applicable law."

Signature of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional

Date

Printed Name of Qualified Professional Engineer / Qualified Soil Erosion and Sediment Control Professional

Title

Check off the qualifications of the signatory of the above part:

Qualified Professional Engineer

Qualified Soil Erosion and Sediment Control Professional

Part II: State Agency Post-Construction Inspection Certification

The below information is required in accordance with Section 5(b)(4)(C)(iii) of the General Permit.

Certification by a DOT District Engineer or his/her designee / a DOT District Environmental Coordinator / a designated employee of another state agency

“I hereby certify that I am a DOT District Engineer or his/her designee / a DOT District Environmental Coordinator / a designated employee of another state agency as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that all post-construction measures have been installed as specified in the permittee’s Stormwater Pollution Control Plan and in accordance with Section 5(b)(2)(C) of the general permit and that all such measures have been cleaned of construction sediment and debris. I understand that this certification is part of a registration submitted in accordance with section 22a-430b of Connecticut General Statutes 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 Connecticut General Statutes and any other applicable law.”

	
Signature	Date
	

Printed Name	Title
--------------	-------

Check off the qualifications of the signatory of the above part:

- Qualified Professional Engineer
- Qualified Soil Erosion and Sediment Control Professional
- Representative of the District

All Projects Must Complete the following Part III - (Attach additional sheets as needed)

Part III: Final Stabilization Inspection Certification

The below information is required in accordance with Section 5(b)(4)(D) of the General Permit.

Certification by a Qualified Inspector

"I hereby certify that I am a qualified inspector as defined in Section 2 of the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (general permit). I am familiar with the site described in this Notice of Termination and the requirements of the general permit. I certify, based on my personal inspection of the site pursuant to Section 6(a) of the general permit that the site has been stabilized, as defined in Section 2 of the general permit, for a period of no less than one full growing season following the cessation of construction activities. I further certify that there is no active erosion or sedimentation present on site and no disturbed areas remain exposed. 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 Connecticut General Statutes and any other applicable law."

Signature of Qualified Inspector

Date

Printed Name of Qualified Inspector

Title

All Projects Must Complete the following Part IV - (Attach additional sheets as needed)

Part IV: Permittee Certification

The below information is required in accordance with Section 5(b)(4)(D) of the General Permit.

Certification by the Permittee

“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 this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.”

Signature of Permittee	Date
Printed Name of Permittee	Title

All Projects Must Complete the following Part V - (Attach additional documentation as needed)

Part V: Additional Submittals

The following attachments are required to be submitted along with the Notice of Termination Form:

- Post-Construction Inspection Report (must contain photos with time stamps)
- Final Stabilization Inspection Report (must contain photos with time stamps)

Complete and submit this form in accordance with the general permit (DEEP-WPED-GP-015) to ensure the proper handling of the termination. Print or type unless otherwise noted.

Submit this Notice of Termination Form to the address below, as well as via email to DEEP.StormwaterStaff@ct.gov:

WATER PERMITTING AND ENFORCEMENT DIVISION/STORMWATER GROUP
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

APPENDIX K

COPY OF CONSTRUCTION GENERAL PERMIT CONDITIONS AND REGISTRATION

(NOT INCLUDED IN CT DEEP EZ-FILE SUBMISSION)



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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Table of Contents

Section 1	Authority	5
Section 2	Authorization Under This General Permit	5
2.1	Eligible Activities	5
2.2	Requirements for Authorization	6
2.3	Geographic Area	14
2.4	Effective Date and Expiration Date of this General Permit	14
2.5	Effective Date of Authorization	14
2.6	Transition to and from an Individual Permit	16
Section 3	Application Requirements	17
3.1	Who Must File an Application	17
3.2	Scope of Application	17
3.3	Application Requirements	17
3.4	Contents of Application	19
3.5	Notice of Change	22
3.6	New Application Required	22
3.7	Change of Permittee	22
3.8	Additional Information	23
3.9	Where to File an Application and Stormwater Construction Pollution Plan	23
3.10	Availability of Application and Stormwater Pollution Control Plan	23
3.11	Actions by Commissioner	24
Section 4	Termination Requirements	26
4.1	Notice of Termination	26
4.2	Termination Requirements	26
4.3	Where to File a Termination Form	27
Section 5	Conditions of this General Permit	28
5.1	General Conditions	28
5.2	Stormwater Pollution Control Plan	30
5.3	Reporting and Record Keeping Requirements	44
Section 6	Duty to Correct, Record, and Report Violations	46
6.1	Corrective Actions	46
6.2	Reporting Violations	46
Section 7	Regs. Conn. State Agencies Incorporated into this General Permit	48
7.1	Section 22a-430-3	48
7.2	Section 221-430-4	48
Section 8	Standard Conditions	49
8.1	Inspection and Entry	49
8.2	Reliance on Application	49
8.3	Submission of Documents	49
8.4	Violations	49
8.5	Enforcement	49
8.6	Need to Halt or Reduce Activity Not a Defense	49
8.7	No Assurance	49
8.8	Relief	49
8.9	Duty to Provide Information	49
8.10	Duty to Comply	50
8.11	Duty to Mitigate	50
8.12	Sludge Disposal	50
8.13	Resource Conservation	50

8.14	Spill Prevention and Control.....	50
8.15	Duty to Reapply.....	50
8.16	Equalization.....	51
8.17	Effect of an Upset.....	51
8.18	Bypass.....	51
8.19	Proper Operation and Maintenance.....	52
8.20	Instrumentation, Alarms, and Flow Records.....	52
8.21	Signatory Requirements.....	52
8.22	Date of Filing.....	53
8.23	False Statements.....	53
8.24	Correction of Inaccuracies.....	54
8.25	Transfer of Authorization.....	54
8.26	Other Applicable Law.....	54
8.27	Duty to Reapply.....	54
8.28	Other Rights.....	54
8.29	Effect of a Permit.....	54
Section 9	Commissioner’s Powers.....	55
9.1	Abatement of Violations.....	55
9.2	General Permit Revocation, Suspension, or Modification.....	55
9.3	Filing of an Individual Permit Application.....	55
Section 10	Definitions.....	56
Section 11	Appendices.....	63
11.1	Appendix A – Endangered and Threatened Species.....	63
11.2	Appendix B – RESERVED.....	63
11.3	Appendix C – Aquifer Protection Guidance Information.....	63
11.4	Appendix D – Coastal Management Act Determination Form.....	63
11.5	Appendix E & F – Memoranda of Agreement Between DEEP and Conservation Districts.....	63
11.6	Appendix G – Historic Preservation Review.....	63
11.7	Appendix H – Wild & Scenic Rivers Guidance.....	63
11.8	Appendix I – Stormwater Management at Solar Array Construction Projects.....	63
11.9	Appendix J – CT DEEP Financial Assurance Irrevocable Letter of Credit.....	63

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

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX A

Endangered and Threatened Species

Purpose

This Appendix describes the steps that an applicant should take to demonstrate compliance with Sections 2.2.4. and 3.4.1.7.c.ii. of the General Permit for the Discharge of Stormwater from Construction Activities (“the CGP”). To be eligible for coverage under the Construction General Permit, an applicant must ensure that the construction activity:

- Does not threaten the continued existence of any state or federal species listed as endangered or threatened (“listed species”), and
- Does not result in the destruction or adverse modification of any habitat associated with such species.

These requirements are specified in Sections 2.2.4. and 3.4.1.7.c.ii. of the CGP. The Department of Energy and Environmental Protection (“the Department”) strongly recommends evaluating compliance with Sections 2.2.4. and 3.4.1.7.c.ii. as early as possible in project planning, ideally *up to one year or more before initiating construction*—or even before site acquisition to avoid significant or unforeseen delays in the processing of an application by the Department. At a minimum, applicants must assess compliance with Sections 2.2.4. and 3.4.1.7.c.ii. prior to submission of the Application Form for the CGP.

Step 1. Screening for Listed Species

Determine if there are known occurrences of any state or federally-listed species within the impact area of the project site ([Section 26-306 of the Regulations of Connecticut State Agencies](#)).

- DEEP strongly recommends conducting an initial site evaluation, including biological surveys to assess the potential to support state-listed species or Critical Habitat types for sites larger than five (5) acres.

3.0 Screening must be completed within six (6) months prior to CGP application submission.

1.1 Review the NDDB Maps

- Go to the Natural Diversity Data Base (NDDB) Map ([review NDDB Maps](#))
- Check if your project area overlaps with known locations of listed species.

1.2 NDDB Map Limitations

- NDDB Areas are based on reported observations, and do not represent all occupied or suitable habitat.
- Much of the state has not been comprehensively surveyed, leaving potential habitat and species locations vulnerable.
- Unmapped areas may contain suitable habitat that has not yet been surveyed.
- GIS maps are only a screening tool—each site requires professional investigation.

1.3 Biological surveys and habitat characterization are strongly recommended for:

- Projects with significant ground disturbance.
- Conversions of natural lands to development.
- Projects disturbing or fragmenting over 10 acres, or smaller areas in Critical Habitat types.

1.4 Use of Screening Results

If based on the screening:

- The project site is not in an area with documented listed species, and
- The applicant has no verifiable, scientific, or credible information indicating that the construction activity may reasonably affect listed species.

Then, when completing the CGP Application Form, the applicant may check the box stating that the activity will not impact any known federal or state listed species.

1.5 Critical Habitat Information

- View preliminary mapping of Critical Habitats using the CTECO Map Viewer (turn on the Bioscience Layer, expand, and select Critical Habitats).
- Submit any preliminary survey results and site habitat characterizations with your NDDDB Review request for DEEP evaluation.

Step 2. Obtaining a Two-Year Determination (if required)

2.1 When Required

If either of the following applies:

- The project site is in a documented NDDDB Area, or
- Site evaluations indicate the likely presence of listed species or habitat impacts—

Then the applicant must submit a Request for NDDDB Review through DEEP's online portal.

2.2 What the NDDDB Review Entails

NDDDB staff will:

- Review project details and site conditions,
- Identify potential impacts to listed species, and
- Recommend appropriate impact avoidance, minimization, or mitigation measures.

The review process may require:

- Additional site-specific information,
- A taxonomic expert for habitat or species surveys,

- survey for listed species, or
- A site-specific protection plan.

If the species is federally listed, consultation with the U.S. Fish and Wildlife Service (USFWS) may be required in addition to DEEP’s Wildlife Division.

2.3 The Determination Letter

Once the review is complete, NDDDB staff will issue a Two-Year Determination Letter, which will:

- indicate that the construction activity will not impact listed species or their associated habitat, or
- may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity, or
- may indicate that a mitigation plan has been approved to address unavoidable impacts to listed species or their associated habitats.

This determination is valid for two years. If construction has not begun before the expiration, an extension request or new review request is required. Include the determination letter with your CGP Application Form. Check the box for “two-year determination” on the form. Failure to attach the letter will delay or prevent application processing.

3.0 Mitigation Plan Requirements (if applicable)

3.1 If a mitigation plan is developed and approved by DEEP and, if applicable, the USFWS:

- Check both the “two-year determination” and “approved mitigation plan” boxes on the CGP Application Form.
- Indicate whether the plan is complete or still being implemented.

Incomplete plans at the time of application will become enforceable permit conditions upon approval.

3.2 If DEEP (and USFWS, if applicable) determines that:

- The activity will adversely impact listed species/habitat.
- A mutually acceptable mitigation plan cannot be agreed upon.

Then the applicant is not eligible for coverage under the CGP.

4.0 Requesting a One-Year Extension to the Determination

4.1 When and How to Request

If the activity has not started by the determination’s expiration:

- You may request one (1) one-year extension.
- Email the NDDDB reviewer who issued the original determination.
- Copy: deep.nddbrequest@ct.gov

4.2 Extension Review Criteria

The extension is presumed to be granted unless DEEP determines that:

- The nature of the construction activity has changed.
- NDDDB maps for the site have changed.
- New information alters the initial review.
- There is evidence of changing site conditions affecting listed species/habitat.

The extension is effective from the date of DEEP's new determination letter. Include both the original and extension letters with your CGP application.

Final Reminders

- It typically takes NDDDB staff about 10 weeks to review and issue NDDDB letters; however, if further survey work during a specific time of year is needed, the process can take longer.
- Begin this process early—up to 1 year or more before construction.
- The Department strongly recommends starting before site purchase.

The Department's NDDDB website includes additional information about the [NDDDB program](#) and [NDDDB reviews](#), including [NDDDB Frequently Asked Questions](#).

General Permit for the Discharge of Stormwater from Construction Activities

Appendix B

RESERVED

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX C

Aquifer Protection Areas and Other Groundwater Drinking Supply Areas Guidance Information

1.0 Connecticut Aquifer Protection Areas (APA)

Link: [CT Aquifer Protection Map Viewer](#)

Overview

Connecticut Aquifer Protection Areas (“APAs”), sometimes referred to as “wellhead protection areas,” are designated on municipal zoning maps as groundwater overlays to protect major public water supply wells in sand and gravel aquifers. The goal is to ensure a plentiful supply of public drinking water for present and future generations. The Aquifer Protection Area Program compliments other programs that protect groundwater resources, such as public drinking water supply watersheds, Class GA/GAA groundwaters and Class A/AA surface waters.

Land use and stormwater management practices in these areas should prevent the pollution of groundwater.

2.0 Stormwater Pollution Control Plan (SPCP)

The Stormwater Pollution Control Plan (SPCP) must address and mitigate potential impacts to both groundwater (aquifers) and surface waters, considering both the quantity and quality of stormwater runoff.

3.0 Emphasis:

- Minimize changes between pre-development and post-development runoff rates and volumes.
- Prevent inadvertent pollutant releases to the ground.
- Encourage stormwater recharge only when it does not pose a risk to groundwater quality.

4.0 Recommended Measures for Aquifer Protection Areas (APAs)

Prevent Illicit Discharges

- Avoid fuel or chemical pollution releases to the ground.
- Store and handle significant fuel, chemical, or hazardous materials outside the well field and APA whenever practicable.
- If storage within the APA is necessary, materials must be stored inside a building with secondary containment.

Minimize Impervious Cover

- Disconnect large impervious areas using natural or landscaped buffer zones.

Use Surface Treatment Structures

Direct paved surface runoff to above-ground treatment systems, such as:

- Sheet flow areas
- Surface swales
- Depressed grass islands
- Detention/retention basins
- Infiltration basins
- Wet basins

These systems help volatilize organic pollutants before stormwater infiltrates into the ground.

Address Stormwater “Hot Spots”

- Use impervious pavement in areas with a high risk of pollutant release (e.g., fueling stations, loading docks, material storage zones, and intensive traffic areas).

Limit Subsurface Recharge Structures

- Utilize dry wells, infiltration galleries, or leaching trenches only for clean runoff from rooftops or similarly uncontaminated surfaces.

These systems are not suitable for treating salts, solvents, fuels, or other soluble pollutants.

Restrict Deicing Chemicals

Use alternatives to traditional road salts, such as:

- Sand only
- Calcium chloride or calcium magnesium-based products

Develop an Emergency Spill Response Plan

- Include coordination with the local water supplier in the plan.

Secure the Site

- Prevent unauthorized access and illegal disposal of waste materials by maintaining secure site access at all times.

5.0 Conditions Where Infiltration Should Be Restricted

Land Uses or Activities with High Pollutant Loads

These stormwater “hot spots” can pose a threat to groundwater. Infiltration may be allowed only with proper pretreatment such as:

- Primary/secondary treatment systems (as described in the Stormwater Quality Manual)
- Gross particle separators (e.g., swirl concentrator types)
- Deep catch basins (minimum 4 ft deep, tight construction, with baffles)

Subsurface Contamination

Avoid infiltration in:

- Brownfield sites
- Urban redevelopment zones

Mobilization of existing soil or groundwater contaminants is a concern.

Groundwater Supply and Wellhead Areas

[Link: Public Water Supply Mapping Application](#)

Stormwater infiltration may contaminate drinking water in immediate public drinking water wellhead zones.

Use:

- Catch basins
- Curbs

These help manage stormwater and reduce direct infiltration in sensitive areas.

6.0 Activities with Higher Potential Pollutant Loads

Table 10- 4 Land Uses or Activities with Higher Potential Pollutant Loads (LUHPPLs)

Land Use/Activities	Stormwater Infiltration Systems Allowed?
Industrial facilities subject to the CT DEEP General Permit for the Discharge of Stormwater Associated with Industrial Activity ¹	Yes ²
Vehicle salvage yards and vehicle recycling facilities	No
Vehicle fueling facilities (gas stations and other facilities with on-site vehicle fueling)	No
Vehicle service, maintenance, and equipment cleaning facilities	No
Fleet storage areas (cars, buses, trucks, public works)	Yes ²
Public works storage areas	Yes ²
Road salt storage facilities (if exposed to rainfall)	No
Commercial nurseries	Yes ²
Flat metal rooftops of industrial facilities	No
Facilities with outdoor storage and loading/unloading of hazardous substances or materials, regardless of the primary land use of the facility or development	No
Facilities subject to chemical inventory reporting under Section 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), if materials or containers are exposed to rainfall	Yes ²
Marinas (service and maintenance)	No
<p>Notes:</p> <p>¹ Stormwater pollution prevention plans are required for these facilities. Source control practices and pollution prevention (refer to Chapter 6) are recommended for the other land uses and activities listed above.</p> <p>² If allowed by the review authority under the conditions described in this section, special considerations to site that have subsurface contamination are essential and may severely limit the applications in vehicle salvage yards and recycling facilities.</p>	

For further information

Regarding the design of stormwater collection systems in Aquifer Protection Areas, contact the Aquifer Protection Area Program by email at DEEP.AquiferProtection@ct.gov or by phone at (860) 424-3020 or visit <https://portal.ct.gov/deep/aquifer-protection-and-groundwater/aquifer-protection/aquifer-protection-program>.

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX D

Coastal Management Act Determination Form

Directions: For sites within the Coastal Boundary, please attach this form and written approval from the local governing authority (or verification of exemption) to the Application Form. Information regarding the Connecticut Coastal Management Act can be found at this link: [Coastal Consistency](#)

SITE INFORMATION

Future Permittee _____
Mailing Address _____
Business Phone _____ ext.: _____ Fax: _____
Contact Person _____ Title: _____
Site Name _____
Site Address/ Location _____
Site Latitude and Longitude _____
Receiving Water (name & basin) _____
Project Description _____

STATEMENT OF REVIEW

<p>The above referenced project is consistent with the goals and policies in section 22a-92 of the Connecticut General Statutes and will not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes.</p> <p>Date of Coastal Site Plan Approval: _____</p> <p><input type="checkbox"/> Copy of written approval attached, or</p> <p><input type="checkbox"/> Verification of exemption attached</p>

APPENDIX E

**Memorandum of Agreement
Between
The Connecticut Department of Energy & Environmental Protection
and the
the Five Conservation Districts of Connecticut
for
Technical Assistance for Locally Approvable Stormwater Construction General Permits**

WHEREAS, the Commissioner of the Department of Energy and Environmental Protection (“Department” or “DEEP”) is authorized by section 22a-6(a)(2)(3) and (4) of the Connecticut General Statutes (“CGS”) to enter into this Agreement; and

WHEREAS, the five Conservation Districts of Connecticut (collectively, the “Districts”), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

WHEREAS, section 22a-430b of the Connecticut General Statutes authorizes the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (“the Construction General Permit” or “CGP”), which has been or shall be issued on October 1, 2019. The Construction General Permit requires the implementation of erosion and sediment controls to control the discharge of sediment from construction and post-construction discharges; and

WHEREAS, Construction General Permits require the preparation and implementation of a Stormwater Pollution Control Plan (“Plan” or “SWPCP”) to prevent erosion and the discharge of sediment to the waters of the state; and

WHEREAS, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sediment control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

WHEREAS, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

WHEREAS, section 22a-326 of the CGS declares the policy of the state “to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;” and

WHEREAS, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

WHEREAS, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

Special Conditions

I. REQUIREMENTS FOR TECHNICAL ASSISTANCE BY DISTRICTS

- A. SWPCP technical assistance shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor's degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control (CPESC), Certified Erosion, Sediment and Stormwater Inspector (CESSWI), or a Certified Professional in Stormwater Quality (CPSWQ).
- B. All technical assistance on SWPCPs undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below.

II. LOCALLY APPROVABLE PROJECTS

For locally approvable projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as indicated in Exhibit 2 of this agreement) shall review Stormwater Pollution Control Plans submitted to the District in accordance with Section 3(b)(10) of the CGP, shall determine whether each such SWPCP is consistent with the requirements of the CGP, and shall advise the Commissioner in writing of its determination regarding the SWPCP's consistency. The appropriate District may request assistance from another District or re-assign a project to another District upon mutual consent of the Districts. The Commissioner will be notified in writing of any re-assignment.

A. Components of the SWPCP Review by the Districts

1. Requirements for Conducting a Review:

The District shall begin a SWPCP review upon the receipt of the all of following: the developer's request for review, two hard copies and a digital copy of the proposed SWPCP, a non-refundable down payment from the permittee as per the Fee Schedule in Exhibit 1 and the written permission of the developer to enter onto and inspect the project site. Once the District is in receipt of all the documents and the fee as delineated above, the developer's SWPCP shall be considered submitted to the District.

2. Determinations of Consistency by the District after Review of the SWPCP and Subsequent Procedures

(a) If the District determines the developer's SWPCP is:

(i) Consistent with the requirements of the Construction General Permit, the District shall issue an affirmative determination notice to both the developer or such developer's designee and to DEEP in order to advise them of the adequacy of the SWPCP. The District shall also provide a copy of the SWPCP to DEEP if requested by the Commissioner.

(ii) Not consistent with the requirements of the Construction General Permit, the District shall provide a written notice of such inconsistency to the developer or such developer's designee; such notice shall include a list of the SWPCP's deficiencies and any appropriate explanatory comments.

- (b) If the developer’s SWPCP is found to be inconsistent with the CGP, the developer may revise the SWPCP (the “Revised SWPCP”) to address any deficiencies noted by the District and resubmit its Revised SWPCP to the District for review.
- (c) If the District receives a Revised SWPCP in accordance with subsection (b) above, the District shall perform a review of the Revised SWPCP. If the Revised SWPCP is deemed:
 - (i) Consistent with the requirements of the Construction General Permit, the District shall (1) issue an affirmative determination notice to both the project developer or such project developer’s designee and to DEEP to advise them of the adequacy of the SWPCP and (2) provide a copy of the SWPCP to the DEEP if requested by the Commissioner; or
 - (ii) Not consistent with the requirements of the CGP after this review, the District shall provide a written notice of such inconsistency to the developer or such developer’s designee. This notice shall include a list of all remaining SWPCP deficiencies and any explanatory comments as appropriate.
- (d) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, the developer shall continue to resubmit a Revised SWPCP in accordance with subsection (c), above, until such time as the District determines that the SWPCP is consistent with the requirements of the Construction General Permit and issues an affirmative determination notice. As such, the resubmitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section II.B., and other applicable sections of this document, and the fee shall remain in accordance with the Fee Schedule in Exhibit 1.
- (e) Revisions to a SWPCP subsequent to the District’s prior approval of developer’s SWPCP

In the event the developer revises a SWPCP after the District has determined that the developer’s SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, the SWPCP shall be considered a Post-Approval Resubmission. In such a case, the District shall review the SWPCP in accordance with the timeframes set forth in Section II.B., and other applicable sections of this document, and the fee shall be in accordance with the Fee Schedule in Exhibit 1.

B. Plan Review Timeframes

1. The District shall review a new submission of a SWPCP submitted by a developer or such developer’s designee and provide review comments or issue an affirmative determination notice within thirty (30) calendar days of the date of a complete submission as specified in Section II.A.1.
2. If the District identifies deficiencies in the SWPCP, the District shall allow the developer or such developer’s designee the opportunity to revise their SWPCP and resubmit it to the District within fifteen (15) calendar days after the date of mailing or delivery of the District’s written comments to the developer or such developer’s designee.
3. The District shall review any SWPCP revised in accordance with subsection II.B.2., above, and provide a written determination of the SWPCP’s consistency or inconsistency within fifteen (15) calendar days after the submission of the revised SWPCP. Subsequent resubmissions of a revised SWPCP shall be in accordance with the same timeframes.
4. At the request of the District or the developer and with the agreement of both the District and the developer, the deadlines stated in subsections 1. – 3., above, may be extended. However, any such

extensions shall be limited to no more than double the original amount of time allowed above for the relevant action.

5. Expedited review of a SWPCP may be requested by a developer. However, the Districts shall have complete discretion to accept or decline such request for an expedited review based on the District's circumstances, including, but not limited to: their existing workload, vacation schedules and staffing. If a District grants an expedited review, the timeframe shall be reduced to no more than one third of the timeframes noted in subsection 1. – 3., above, and the fee and non-refundable down payment shall be twice those amounts listed in Exhibit 1.
6. In the event a District does not complete the review of the SWPCP within sixty (60) days (or within the time allowed under any resubmissions or authorized extension pursuant to subsections B.3 and B.4, above, but in no circumstance later than 120 days) of the date the SWPCP was initially submitted to the District, and provided such delay is not the result of the developer's or such developer's designee's failure to address SWPCP deficiencies as noted in subsection B.2, above, the District shall:
 - (a) not later than three (3) days after the District's deadline, notify the DEEP that the developer shall be initiating the registration process for the Construction General Permit in accordance with section II.B of this Agreement, for completion of the SWPCP review, and;
 - (b) provide to the DEEP, upon request, the District's complete file, including supporting documentation the developer's SWPCP consistency determination, including, but not limited to, the SWPCP, any other documentation submitted to the District by or on behalf of a developer, and any analysis already performed by the District; and
 - (c) not later than seven (7) days after the District's deadline, in accordance with section II.B of this Agreement, for completion of the SWPCP review, transfer to the DEEP all fees that were originally submitted by the developer.

C. Inspections of the Project Site

1. Prior to the commencement of project construction and during the course of the SWPCP review process, the District shall conduct at least one inspection of the project site.
2. Once the construction of the project has begun, the District shall make at least one, but not more than three, inspection(s) of the project site to verify that the developer's SWPCP is being implemented as approved by the District. The District shall report the results of the inspection(s) to the developer or such developer's designee and to DEEP in a manner prescribed by the Commissioner.
3. Upon notification from the developer or developer's designee, in accordance with Section 6(a)(1) of the CGP, that construction of the stormwater collection and management system is complete, the District shall conduct one inspection of the project site to verify that the post-construction stormwater management measures were completed in accordance with the approved SWPCP. The District shall report the results of this inspection to DEEP in a manner prescribed by the Commissioner.

D. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, "Records" are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, reports, records, estimates, summaries and correspondence, kept or stored in any form.

III. FEE SCHEDULE.

- A.** A District may assess fees for the services it renders in conjunction with its SWPCP reviews. Such fees shall be assessed in accordance with the Fee Schedule in Exhibit 1. All fees shall be submitted by the developer to the District with the developer's request for review and inspections. These fees are non-refundable.
- B.** The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted, without a formal amendment to this Agreement, by mutual agreement between the Districts and the Commissioner.

IV. RESPONSIBILITIES OF DEEP.

- A.** In accordance with the Construction General Permit requirements for SWPCP reviews of locally approvable projects by a third party, DEEP shall conduct outreach to inform the development community that a District may review SWPCPs for consistency with the requirements of the Construction General Permit. DEEP shall also inform the development community that a registration form for authorization of a locally approvable project under the Construction General Permit may only be submitted to DEEP if: the District, or other third party in accordance with Section 3(b)(11) of the CGP, determines that the SWPCP is consistent with the requirements of the CGP, or in the event the time schedule is exceeded for a District review as described in section II.B.6, above.
- B.** In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sediment Control, and the 2004 Stormwater Quality Manual, as respectively amended. The Commissioner shall have final approval of the review guidelines and procedures.
- C.** DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP reviews. The frequency of subsequent training shall be determined by the Commissioner.
- D.** DEEP shall retain final decision making authority regarding the determination that a SWPCP is or is not consistent with the requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.
- E.** Once a SWPCP has been approved, DEEP shall oversee any subsequent compliance and/or enforcement matters related to a developer's adherence to the requirements of the Construction General Permit.
- F.** DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

V. POINTS OF CONTACT.

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties, notwithstanding section VI. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is placed in the U.S. mail, first class and postage prepaid, return receipt requested, or, placed with a recognized, overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

A. DEEP

Director
Water Permitting & Enforcement Division
Bureau of Material Management & Compliance Assurance
Department of Energy & Environmental Protection
79 Elm St.
Hartford, CT 06106
Phone: 860-424-3018
Fax: 860-424-4074

B. Conservation District

Board Chairperson
Address & Phone of appropriate District:

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: info@nwcd.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph: 860-319-8806
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-859-7014
Email: csullivan@conservect.org

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881
Email: tollandc@snet.net

General Conditions

VI. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION. This Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which

are incorporated into and are made a part of the Contract as if they had been fully set forth in it. The Contract may also be subject to Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services and to Executive Order No. 49 of Governor Dannel P. Malloy, promulgated May 22, 2015, mandating disclosure of certain gifts to public employees and contributions to certain candidates for office. If Executive Order 14 and/or Executive Order 49 are applicable, they are deemed to be incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Contractor's request, the Client Agency or DAS shall provide a copy of these orders to the Contractor.

VII. AMENDMENTS. Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined material by the Department.

VIII. SEVERABILITY. The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.

IX. SOVEREIGN IMMUNITY. The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State's, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.

X. FORUM AND CHOICE OF LAW. The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.

XI. TERMINATION. Notwithstanding any provisions in this Agreement, DEEP, through a duly authorized employee, may terminate the Agreement whenever the Agency makes a written determination that such Termination is in the best interests of the State. The Agency shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts' intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Agency copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of

Termination from the Agency, the Districts shall cease operations as the Agency directs in the notice, and take all actions that are necessary or appropriate, or that the Agency may reasonably direct, for the protection, and preservation of records. Except for any work which the Agency directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Agency.

XII. DURATION OF AGREEMENT. This Agreement shall be effective on July 1, 2019 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph XI above.

XIII. VOID AB INITIO. Notwithstanding paragraphs XI and XII, the Agreement shall be void *ab initio* if the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

XIV. INTERPRETATION. The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

XV. ENTIRETY OF AGREEMENT. This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

XVI. PROTECTION OF STATE CONFIDENTIAL INFORMATION.

- A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards. Confidential Information is any information that a party claims to be exempt from the state Freedom of Information Act (Section 1-210 et seq of the Connecticut General Statutes, also called FOIA) as specified in that Act.
- B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:
 - 1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;
 - 2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;

3. A process for reviewing policies and security measures at least annually;
4. Creating secure access controls to Confidential Information, including but not limited to passwords; and
5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.

C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.

D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.

E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

XVII. AMERICANS WITH DISABILITIES ACT. The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

XVIII. ADA PUBLICATION STATEMENT. The following statement shall be incorporated into all **publications** prepared under the terms of this Agreement:

"The Department of Energy and Environmental Protection is an affirmative action/equal opportunity employer and service provider. In conformance with the Americans with Disabilities Act, DEEP makes every effort to provide equally effective services for persons with disabilities. Individuals with disabilities who need this information in an alternative format, to allow them to benefit and/or participate in the agency's programs and services, should call DEEP's Human Resources Office at (860) 424-3006, send a fax to (860) 424-3896, or email DEEP.MedRecs@ct.gov. Persons who are hearing impaired should call the State of Connecticut relay number 711."

When advertising any **public meetings** conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

"Requests for accommodations must be made at least two weeks prior to the program date."

All **videos** produced under the terms of this Agreement must be made available with closed captioning.

XIX. PUBLICATION OF MATERIALS. The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District's products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

XX. CHANGES IN PRINCIPAL PROJECT STAFF. Any changes in District staff qualified to review Plans must be requested in writing and approved in writing by the Commissioner at the Commissioner's sole discretion. In the event of any unapproved change in District staff, the Commissioner may, in the Commissioner's sole discretion, terminate this Agreement.

XXI. FURTHER ASSURANCES. The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

XXII. ASSIGNMENT. The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Agency. The Agency may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Agency for a breach is without prejudice to the Agency's or the State's rights or possible Claims.

XXIII. EXHIBITS. All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

XXIV. FORCE MAJEUR. Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary weather conditions, disasters, riots, acts of God, insurrection or war.

XXV. INDEMNIFICATION. The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any

provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Agency prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Agency. The Agency shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Agency or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

XXVI. DISTRICT PARTIES. A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity

XXVII. CAMPAIGN CONTRIBUTION RESTRICTION. For all State contracts as defined in P.A. 07-1 having a value in a calendar year of \$50,000 or more or a combination or series of such agreements or contracts having a value of \$100,000 or more, the authorized signatory to this Agreement expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice. See SEEC Form 11.

Authorizing Signatures

For DEEP: _____
Katherine S. Dykes, Commissioner _____ Date

For Northwest Conservation District: _____
Signature _____ Date _____

Title

For Eastern Connecticut Conservation District: _____
Signature _____ Date _____

Title

For Connecticut River Coastal Conservation District, Inc.: _____
Signature _____ Date _____

Title

For Southwest Conservation District: _____
Signature _____ Date _____

Title

For North Central Conservation District: _____
Signature _____ Date _____

Title

Exhibit 1

Fee Schedule

The Districts will be paid \$120/hour for technical assistance work performed.

Non-refundable down payments required with submission:

\$2,500 for sites \leq 20 acres

\$4,000 for sites $>$ 20 acres

Exhibit 2

**Conservation Districts of Connecticut
Regional Delineations and Contact Information**

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: info@nwcd.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph: 860-319-8806
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-859-7014
Email: csullivan@conservect.org

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881
Email: tollandc@snet.net

NORTHWEST	SOUTHWEST	NORTH CENTRAL	CT RIVER COASTAL	EASTERN
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

Exhibit 3

CONSERVATION DISTRICT PLAN REVIEW CERTIFICATION

Registrations submitted to DEEP for which a Conservation District has performed the Plan review pursuant to Section 3(b)(10) of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities shall include the following certification:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Five Conservation Districts of Connecticut for Technical Assistance for Locally Approvable Construction General Permits. I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] 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 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, based on my review of the requirements of such general permit and on the standard of care for such projects, that the Plan is in compliance with the requirements of the general permit. I 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 Connecticut General Statutes and any other applicable law."

Registrations submitted to DEEP for which the District review was begun but **could not be completed** within the time limits specified in the Memorandum of Agreement shall include the following statement:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Five Conservation Districts of Connecticut for Technical Assistance for Locally Approvable Construction General Permits. I am making this statement in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I hereby state that the review of the Stormwater Pollution Control Plan (Plan) for such registration was not completed within the time frames specified in the Memorandum of Agreement. Consequently, I cannot certify that the Plan is in compliance with the requirements of the general permit."

APPENDIX F
Memorandum of Agreement
Between
The Connecticut Department of Energy & Environmental Protection
and
the Five Conservation Districts of Connecticut
for
Technical Assistance for Locally Exempt Stormwater Construction General Permits

WHEREAS, the Commissioner of the Department of Energy and Environmental Protection (“Department” or “DEEP”) is authorized by section 22a-6(a)(2)(3) and (4) of the Connecticut General Statutes (“CGS”) to enter into this Agreement; and

WHEREAS, the five Conservation Districts of Connecticut (collectively, the “Districts”), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

WHEREAS, section 22a-430b of the Connecticut General Statutes authorizes the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (“the Construction General Permit” or “CGP”), which has been or shall be issued on October 1, 2019. The Construction General Permit requires the implementation of erosion and sediment controls to control the discharge of sediment from construction and post-construction discharges; and

WHEREAS, the Construction General Permit requires the preparation and implementation of a Stormwater Pollution Control Plan (“Plan” or “SWPCP”) to prevent erosion and the discharge of sediment to the waters of the state; and

WHEREAS, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sediment control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

WHEREAS, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

WHEREAS, section 22a-326 of the CGS declares the policy of the state “to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment

pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;” and

WHEREAS, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

WHEREAS, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

Special Conditions

II. REQUIREMENTS FOR TECHNICAL ASSISTANCE BY DISTRICTS

- A. SWPCP technical assistance shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor’s degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control (CPESC), Certified Erosion, Sediment and Stormwater Inspector (CESSWI), or a Certified Professional in Stormwater Quality (CPSWQ).
- B. All technical assistance on SWPCPs undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below.

III. LOCALLY EXEMPT PROJECTS

For locally exempt projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as specified in the CGP and as indicated in Exhibit 2 appended hereto) shall, upon request by DEEP, provide technical assistance to DEEP for ensuring implementation of the Stormwater Pollution Control Plan in compliance with the CGP.

A. SWPCP Compliance Technical Assistance

- 1. The District shall be responsible for inspections to ensure that the SWPCP is properly implemented in accordance with the CGP by coordinating with the permittee (or designee) and conducting on-site inspections. Technical assistance will begin upon a written request from DEEP, the receipt of two copies of the approved SWPCP, and a down payment from the permittee as per the fee schedule in Exhibit 1. Once the District is in receipt of the documents and such down payment, the permittee’s SWPCP shall be considered submitted to the District and the District will begin the required review in accordance with this agreement and the CGP.

2. **Pre-construction Preparation:** The District will review the approved SWPCP and any other relevant site plans, conduct an on-site visit, and set a date for the pre-construction meeting.
3. **Pre-construction Meeting:** Before the start of any construction, including any clearing of vegetation or installation of erosion and sediment controls (E&S controls), the District will meet with the permittee (or designee), contractor(s) and the qualified professional engineer who designed the project (designing qualified professional engineer) to review E&S control plans for construction and post-construction stormwater controls. Such meeting will include review of the construction schedule/phasing plan, inspection schedule, exchange of contacts, and discussion of any potential problem areas. If construction begins prior to this meeting, the District shall notify DEEP of non-compliance with the CGP.
4. **Plan Implementation Inspection:** The permittee (or designee) will notify the District when the E&S controls are installed and coordinate with the designing qualified professional engineer to schedule the Plan Implementation Inspection. The District will conduct the initial on-site inspection accompanied by the permittee (or designee) and the designing qualified professional engineer. If it is determined that the controls are installed properly and are in compliance with the approved SWPCP, the District will issue a notice that construction may proceed according to the SWPCP phasing plan. If the controls are not installed properly, the District will provide written notification to the permittee (or designee) of any action needed to comply with the SWPCP. The District shall re-inspect the site upon notification by the permittee (or designee) that the site is ready for re-inspection and in accordance with the Plan Implementation Inspection requirements in the CGP. Once the controls are properly installed and are in compliance with the approved SWPCP, the District will issue a notice that construction may proceed according to the SWPCP phasing plan.
5. **Interim Inspections**
 - (a) As determined at the pre-construction meeting and according to the approved SWPCP or as otherwise directed by the Commissioner, interim inspections shall be conducted to verify compliance with the CGP and the SWPCP, including but not limited to, verification of site stabilization at the end of each construction phase and proper installation of controls prior to the beginning of the next phase of construction. Similar to the Plan Implementation Inspection, the permittee (or designee) will notify the District that an inspection is needed for either the closeout of one phase and/or the beginning of another.
 - (b) Random inspections shall be conducted at least every 6 weeks if needed between scheduled inspections.
 - (c) Additional inspections may be scheduled if E&S control objectives are not being met.
 - (d) A written report will be generated following each inspection noting site conditions and any action required to maintain proper E&S controls during construction. The report will note whether or not the site is in compliance with the SWPCP and the CGP.
6. **Post-Construction Inspection:** Once construction is completed the District will conduct a post-construction site inspection with the permittee (or designee), designing qualified professional engineer and contractor to verify that all post-construction stormwater measures

are installed properly in accordance with the CGP and the SWPCP. The District will conduct at least one follow-up site visit after the post-construction site inspection. Additional inspections may be needed if the site is not stable and remedial action is needed. Reports and required actions will follow the same protocol as outlined in II.A.5.(d), above.

7. Final Stabilization Inspection: A final site inspection with the District, contractor, and designing qualified professional engineer will be conducted to ensure the site has been fully stabilized and all post-construction stormwater Best Management Practices (BMPs) are in place and functioning. The final stabilization inspection shall not take place prior to the completion of one (1) full growing season (April – October) following a successful post-construction inspection. The District will notify DEEP to confirm the site has achieved final stabilization. Subsequent to such notification, the permittee shall submit a Notice of Termination in accordance with the CGP.

B. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, “Records” are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, inspection reports and records, estimates, summaries and correspondence, kept or stored in any form.

IV. FEE SCHEDULE

- A. A District will assess fees for the services it renders in conjunction with its SWPCP technical assistance in accordance with the Fee Schedule provided in Exhibit 1 to this agreement. Fees will be calculated on an hourly basis and paid for by the permittee. A down payment will be required prior to the start of any assistance.
- B. The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted by mutual written agreement between the Districts and the Commissioner.

V. RESPONSIBILITIES OF DEEP

- A. DEEP is responsible for formal review of all locally exempt SWPCPs submitted as part of the CGP and will require performance assurance (in accordance with the CGP) or similar financial mechanisms of the permittee to ensure payments will be made to Districts for technical assistance work.
- B. In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sediment Control (as amended), and the 2004 Stormwater Quality Manual (as amended). The Commissioner shall have final approval of the review guidelines and procedures.

- C. DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP technical assistance. The frequency of subsequent training shall be determined by the Commissioner.
- D. DEEP shall retain final decision making authority regarding the determination that a construction site is in compliance or not with the SWPCP requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.
- E. DEEP shall oversee any subsequent compliance and/or enforcement matters related to a permittee's adherence to the requirements of the Construction General Permit.
- F. DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

VI. POINTS OF CONTACT

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is emailed, or placed in the U.S. mail, first class and postage pre-paid, return receipt requested, or placed with a recognized overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

DEEP
Director Water Permitting & Enforcement Division
Bureau of Material Management & Compliance Assurance
Department of Energy & Environmental Protection
79 Elm St.
Hartford, CT 06106
Phone: 860-424-3018
Fax: 860-424-4074

Conservation District Executive Director and/or Board Chairperson
Address & Phone of appropriate District:

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: info@nwcd.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph: 860-319-8806
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-859-7014
Email: csullivan@conservect.org

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881
Email: tollandc@snet.net

General Conditions

VII. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION.

Executive Orders. . This Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. The Contract may also be subject to Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services and to Executive Order No. 49 of Governor Dannel P. Malloy, promulgated May 22, 2015, mandating disclosure of certain gifts to public employees and contributions to certain candidates for office. If Executive Order 14 and/or Executive Order 49 are applicable, they are deemed to be incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Contractor's request, the Client Agency or DAS shall provide a copy of these orders to the Contractor.

VIII. AMENDMENTS. Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined

material by the Department.

- IX. SEVERABILITY.** The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.
- X. SOVEREIGN IMMUNITY.** The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of Connecticut (“State”) of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State’s, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.
- XI. FORUM AND CHOICE OF LAW.** The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.
- XII. TERMINATION.** Notwithstanding any provisions in this Agreement, DEEP, through a duly authorized employee, may terminate the Agreement whenever the Department makes a written determination that such Termination is in the best interests of the State. The Department shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts’ intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Department copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of Termination from the Department, the Districts shall cease operations as the Department directs in the notice, and take all actions that are necessary or appropriate, or that the Department may reasonably direct, for the protection, and preservation of records. Except for any work which the Department directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the

Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Department.

XIII. DURATION OF AGREEMENT. This Agreement shall be effective on January 1, 2019 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph X above.

XIV. VOID AB INITIO. Notwithstanding paragraphs X and XI, the Agreement shall be void ab initio if, in the Commissioner's sole discretion, the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

XV. INTERPRETATION. The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

XVI. ENTIRETY OF AGREEMENT. This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

XVII. PROTECTION OF STATE CONFIDENTIAL INFORMATION

- A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards.
- B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:
 - 1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;

2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;
 3. A process for reviewing policies and security measures at least annually;
 4. Creating secure access controls to Confidential Information, including but not limited to passwords; and
 5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.
- C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.
- D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.
- E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

XVIII. AMERICANS WITH DISABILITIES ACT. The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

XIX. ADA PUBLICATION STATEMENT. The following statement shall be incorporated into all publications prepared under the terms of this Agreement:

"The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act (ADA). Please contact us at (860) 418-5910 or deep.accommodations@ct.gov if you: have a disability and need a communication aid or service;

have limited proficiency in English and may need information in another language; or if you wish to file an ADA or Title VI discrimination complaint.”

When advertising any public meetings conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

“Requests for accommodations must be made at least two weeks prior to the program date.”

All videos produced under the terms of this Agreement must be made available with closed captioning.

XX. PUBLICATION OF MATERIALS. The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District’s products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

XXI. CHANGES IN PRINCIPAL PROJECT STAFF. Any changes in the principal project staff must be requested in writing and approved in writing by the Commissioner at the Commissioner’s sole discretion. In the event of any unapproved change in principal project staff, the Commissioner may, in the Commissioner’s sole discretion, terminate this Agreement.

XXII. FURTHER ASSURANCES. The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

XXIII. ASSIGNMENT. The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Department. The Department may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Department for a breach is without prejudice to the Agency’s or the State’s rights or possible Claims.

XXIV. EXHIBITS. All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

XXV. FORCE MAJEUR. Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary

weather conditions, disasters, riots, acts of God, insurrection or war.

XXVI. INDEMNIFICATION. The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the gross negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Department prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Department. The Department shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Department or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

XXVII. DISTRICT PARTIES. A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity

Exhibit 1

Fee Schedule effective as of January 1, 2019

The Districts will be paid \$120/hour for technical assistance work performed. Interim inspections must be estimated based on phasing and complexity of site.

Down payments:

\$2,500 for sites \leq 20 acres

\$4,000 for sites $>$ 20 acres

Exhibit 2

Conservation Districts of Connecticut Regional Delineations and Contact Information

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: info@nwcd.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph: 860-319-8806
Email: Dan.Mullins@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-859-7014
Email: csullivan@conservect.org

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881
Email: tollandc@snet.net

NORTHWEST	SOUTHWEST	NORTH CENTRAL	CT RIVER COASTAL	EASTERN
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX G

Historic Preservation Review

Chapter 184a, Section 10-387 of the Connecticut General Statutes states that DEEP shall review, in consultation with the State Historic Preservation Office (“SHPO”) within the Department of Economic and Community Development, its policies and practices for consistency with the preservation and study of the state’s archaeological and historical sites. Pursuant to this requirement, DEEP has outlined the following process for assessing the potential for a proposed development to impact these important resources. DEEP advises a review for resources identified below to *be initiated up to one year* prior to application for this permit and in conjunction with the local project approval process.

Question No. 1

Will the proposed project be authorized under an Army Corps of Engineers Section 404 wetland permit?

- Yes – Stop here – the Section 404 permit will satisfy all requirements for Appendix G
 No – Please answer the following questions

Question No. 2

Is the project site within an area of significance?

- Yes No Do Not Know or Unable to Determine

This can be determined by consulting the Public Viewer at: <https://conncris.ct.gov/>

Question No. 3

Does the area of anticipated construction or ground disturbance include soils defined by the United States Department of Agriculture as "Loam, Sandy Loam, or Loamy Sand" that also may be Fine or Gravelly with slopes less than or equal to 15% (Soil mapping information is available at: <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>)?

- Yes No Do Not Know or Unable to Determine

Question No. 4

Are there buildings or structures over 50 years in age within the project site or evidence of prior human land use (i.e., buildings foundations, wells, stone walls, or other built stone features)?

- Yes No Do Not Know or Unable to Determine

How to Proceed

If you answered “Yes” or “Do Not Know or Unable to Determine” to any or all of Questions 2, 3, or 4 above; please request an opinion by completing the form at the following location: <https://arcg.is/1m8G0L3>

If you answered “No” to each one of Questions 2, 3, or 4 above; report in the Application Form for the General Permit for the Discharge of Stormwater from Construction Activities that a self-review has been conducted and report the results provided above.

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX H

Wild & Scenic Rivers Guidance

1.0 Overview: Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act (WSRA) charges administration of rivers in the National Wild and Scenic Rivers System (National System) to four federal land management agencies (Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, and U.S. Forest Service). However, to protect and enhance river values as directed in the WSRA, it is essential to use the authorities of a number of other federal agencies in administering the water column, river bed/bank, and upland river corridor.

Congress declared a policy to protect selected rivers in the nation through the WSRA. The river-administering agencies are to protect the river's identified values, free-flowing condition, and associated water quality. Specifically, each component is to be "administered in such manner as to protect and enhance the outstandingly remarkable values (ORVs) which caused it to be included in said system...."

The WSRA also directs other federal agencies to protect river values. It explicitly recognizes the Federal Energy Regulatory Commission, Environmental Protection Agency, Army Corps of Engineers and any other federal department or agency with lands on or adjacent to designated (or congressionally authorized study) rivers or that permit or assist in the construction of water resources projects.

2.0 Pertinent Sections of the Wild and Scenic Rivers Act

The full Wild and Scenic Rivers Act can be found at the website: www.rivers.gov

Pertinent Sections related to the mandate to protect river values through coordinated federal actions is found in several sections of the WSRA:

Section 1(b) Section 7(a) Section 10(a) Section 12(a) Section 12(c)

3.0 Designated Rivers under the Wild and Scenic Rivers Act and Contact Information

The full listing of designated rivers can be found on the website www.rivers.gov

As of the date of this publication, there are five (5) designated rivers in Connecticut, all of which are managed under the Partnership Wild and Scenic Rivers Program, through a Coordinating Committee consisting of representatives from local communities and organizations, state government and the National Park Service. More information about these rivers, their watersheds, approved management plans, the Wild and Scenic Coordinating Committees and specific contact information can be found on the websites.

1. Farmington (West Branch) River: <https://www.rivers.gov/river/farmington-west-branch>
2. Farmington (Lower) & Salmon Brook: <https://www.rivers.gov/river/farmington>
3. Eightmile River: <https://www.rivers.gov/river/eightmile>
4. Wood & Pawcatuck Rivers: <https://www.rivers.gov/river/wood-pawcatuck>
5. Housatonic River: <https://www.rivers.gov/river/housatonic>

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX I

Stormwater Management for Solar Array Construction Projects

Solar development has expanded over the last several years as Connecticut and other states have invested in this important resource to further greenhouse gas emission reductions and other renewable policy objectives. However, construction of a large-scale solar array is unlike most other construction activities regulated under the General Permit for the Discharge of Stormwater from Construction Activities (“general permit”) and entails challenges not encountered in traditional development projects. If not properly managed, stormwater discharged during and after the construction of solar arrays can be a significant source of pollution resulting from increased runoff, erosion, and sedimentation, which can adversely impact wetlands or other natural resources. It is vitally important to stabilize soil, minimize soil disturbance and soil compaction, and manage the total runoff volume and velocity. Proper stormwater management practices can significantly mitigate the loss of topsoil, erosion and sediment discharges from disturbed areas and stormwater outlets, and erosion along downstream channels and streambanks. The opportunities to properly manage runoff decrease as site imperviousness increases.

Therefore, in addition to the terms and conditions of the general permit, applications for construction of a Solar Array (as that term is defined in Section 11 of the general permit) shall, at a minimum, adhere to the conditions listed below. Depending on site-specific conditions for a particular solar array construction project, additional analyses may be required.

1.0 Design and Construction Requirements

- (1) Roadways, gravel surfaces and transformer pads within the solar array are considered effective impervious cover for the purposes of calculating Water Quality Volume (WQV). In addition to these impervious surfaces, all solar panels in the array shall also be considered effective impervious cover for the purposes of calculating Water Quality Volume if the proposed post-construction slopes at a site are equal to or greater than 15% or if the postconstruction slopes at a site are less than 15% and the conditions in (a) – (d), inclusive, below have not been met:
 - (a) The vegetated area receiving runoff between rows of solar panels (see Figures 1 and 2 below) is equal to or greater than the average width of the row of solar panels draining to the vegetated area;
 - (b) Overall site conditions and solar panel configuration within the array are designed and constructed such that stormwater runoff remains as sheet flow across the entire site and flows towards the intended stormwater management controls;
 - (c) The following conditions are satisfied regarding the design of the post-construction slope of the site:
 - (i) For slopes less than or equal to 5%, appropriate vegetation shall be established that will ensure sheet flow conditions and that will provide sufficient ground cover throughout the site; and
 - (ii) For slopes greater than 5%, but less than 10%, practices including, but not limited to, level spreaders, terraces or berms as described in Figure 2, below, shall be used to ensure long term sheet flow conditions; and

- (iii) For slopes greater than or equal to 8%, erosion control blankets or stump grindings or erosion control mix mulch or hydroseed with tackifier shall be applied within 72 hours of final grading, or when a rainfall of 0.5 inches or greater is predicted within 24 hours of final grading, whichever time period is less; and
 - (iv) For slopes equal to or greater than 10% and less than 15%, the SPCP includes specific engineered stormwater control measures with detailed specifications that are designed to provide permanent stabilization and non-erosive conveyance of runoff to the property line of the site or downgradient from the site.
- (d) The solar panels shall be designed and constructed in such a manner as to allow the growth of native vegetation beneath and between the panels. Pollinator-friendly vegetation is strongly encouraged. With respect to such vegetation, the Permittee shall not use chemical fertilization, herbicides, or pesticides except as necessary to establish such vegetation.
- (2) (a) Prior to commencing construction activities, the Permittee shall ensure that the following setbacks and buffers shall be delineated and maintained on the site:
- (i) No solar panel associated with a solar array shall be located within one hundred (100) feet of any wetland or waters (“the 100-foot setback”) that, prior to or after construction, is located downgradient of any construction activity or within fifty (50) feet of any property boundary (“the 50-foot setback”) that, prior to or after construction, is located downgradient of such construction activity; and
 - (ii) Except as provided in Section 2(a)(iii) of Appendix I, there shall be an undisturbed buffer of at least fifty (50) feet between any construction activity at a site and any wetland or waters that, prior to or after construction, is located downgradient of such construction activity (“the 50-foot buffer”). Such buffer shall be comprised of existing dense herbaceous vegetative ground cover (e.g. not forested area). If the entirety of such buffer is not comprised of existing dense herbaceous vegetative ground cover, either such dense herbaceous vegetative buffer shall be established upon final stabilization or such buffer shall be at least one hundred (100) feet (“the 100-foot buffer”).
 - (iii) There shall be an undisturbed buffer of at least ten (10) feet between any construction activity at a site associated with an access road or the electrical interconnection necessary for the solar array and any wetland or waters that, prior to or after construction, is located downgradient of such construction activity (“10-foot buffer”), except if the access road or electrical interconnection passes between two wetland or waters and the undisturbed buffer cannot be achieved. Any crossing through a wetland or waters for an access road or electrical interconnection is exempt from such buffer requirement.
- (b) Notwithstanding Section 2(a)(ii), the 50-foot buffer or 100-foot buffer, as applicable, may be reduced, only where necessary, but by no more than fifty percent (50%), only if all of the following have been demonstrated to the satisfaction of the Commissioner by approval of an Application:
- (i) Stormwater control measures for managing stormwater discharges that will enter or be received by a wetland or waters shall be designed and installed in accordance with the following conditions:
 - (A) a minimum sediment load reduction of ninety percent (90%) shall be achieved before such discharges enter or are received by a wetland or waters. The required sediment load reduction shall be calculated based solely on the stormwater controls used; no sediment load reduction from conditions on the site (i.e., from any remaining buffer) shall be considered when calculating the sediment load reduction from such stormwater controls. The sediment load reduction may be calculated using a range of available models that are available to facilitate this calculation, including USDA’s RUSLE-series programs and the WEPP erosion model, SEDCAD, SEDIMOT, or other equivalent independent third party model or method acceptable to the Commissioner;

- (B) those portions of a solar array from which stormwater discharges enter or will be received by a wetland or waters shall be deemed effective impervious cover for the purposes of calculating conveyance protection in accordance with the Stormwater Quality Manual, even if those portions of such array are less than one (1) acre; and
 - (C) the buffer into which stormwater discharges shall have a slope of less than or equal to fifteen percent (15%)
- (c) A soil scientist, as that term is defined in Section 11 of the general permit, shall delineate all wetland or waters by field survey. The location of all wetland or waters and all required setbacks and buffers shall be shown on all mapping and prior to the start of construction be clearly marked on the site with flags, stakes, tape, or a similar marking device by a surveyor licensed in Connecticut.
 - (d) Delineation of the 100-foot setback and any buffer required under this Section shall be measured perpendicularly and laterally from the nearest part of the solar array or construction activity, as applicable, to:
 - (i) in the case of waters, the ordinary high water mark of the water body, defined as the line on the shore established by fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, and/or the presence of litter and debris;
 - (ii) the nearest edge of the stream or river bank, bluff, or cliff, as applicable; and
 - (iii) the nearest edge of any wetland, as determined by a soil scientist.
 - (e) The SPCP shall indicate how compliance with this Section will be achieved.
 - (f) Prior to the approval of an application, the Commissioner may determine that the 100-foot setback or any buffer required under this Section is not adequate to protect water quality or natural resources (i.e., a vernal pool, cold-water perennial streams, perennial headwater seeps or similar sensitive wetland or waters, or other sensitive habitat). In such a case, the Commissioner may reject or disapprove the application or may impose additional terms and conditions in the approval of such application, including, but not limited to, an additional setback, buffer or other control measure.
 - (g) Nothing in this Section is intended to or shall prevent improvements, as may be directed by the Commissioner in the approval of an application, to enhance the water quality benefits or the natural resource value of any buffer required under this Section.
 - (h) The terms “wetland”, “watercourse”, and “waters” shall be as defined in Section 11 of the general permit. In addition, the term “access road” shall mean a road used for the sole purpose of gaining access to the site from a public road or right-of-way or a road used solely to provide access between separate internal areas of fenced solar arrays. Access road shall *not* include any other road, including, but not limited to, a road around the perimeter of a solar array or a road used to service solar arrays.
- (3) The lowest vertical clearance of the solar panels above the ground should not be greater than ten (10) feet. The panels shall, however, be at an adequate height to support vegetative growth and maintenance beneath and between the panels. If the lowest vertical clearance of the solar panels above the ground is greater than ten (10) feet, non-vegetative control measures will be required to prevent/control erosion and scour along the drip line or otherwise provide energy dissipation from water running off the panels. This Section does not apply to solar carports that are installed over asphalt pavement.

- (4) In addition to the Pre-Construction meeting required by Section 5.1.6.1 of the general permit, prior to each phase of any construction activity, the Permittee shall ensure that a preconstruction meeting takes place with the designing Qualified Professional, Qualified Inspector, and all site contractors and subcontractors to be involved in construction, and the appropriate District personnel. Such meeting shall include a site walk of the project site. The Permittee shall ensure that a record of the date of such meeting and a report summarizing the meeting shall be prepared and retained in the Permittee's SPCP, with a copy sent to all parties who attended the preconstruction meeting.
- (5) (a) The Permittee shall retain the designing Qualified Professional and a Qualified Inspector to conduct the Plan Implementation and Routine inspections pursuant to Section 5.2.5. It is preferable that the Qualified Inspector shall be chosen by the designing Qualified Professional. Unless otherwise approved in writing by the Commissioner, such designing Qualified Professional and Qualified Inspector shall be retained for the duration of the construction project until the Notice of Termination has been submitted to the Commissioner and determined to be acceptable, as described below in paragraph (7) below.
- (b) Plan Implementation Inspections: Notwithstanding the schedule of inspections set forth in Section 5.2.5 of the general permit, the Permittee shall ensure that the designing Qualified Professional and the Qualified Inspector conduct Plan Implementation Inspections beginning with the commencement of construction activities and through each phase of construction until all perimeter controls, initial erosion and sediment control measures, and construction stormwater traps, basins, swales, and other control measures associated with each phase have been installed and stabilized. In addition, once all of these measures have been installed and stabilized, the Permittee shall ensure that the designing Qualified Professional certifies in writing to their completion in the applicable inspection report in accordance with the SPCP. The Permittee shall ensure that the designing Qualified Professional conducts a Plan Implementation Inspection of the site at least once a month and the Qualified Inspector conducts such inspection at least once a week. (The Qualified Inspector does not need to conduct a weekly inspection during the week the qualified designing professional conducts a monthly inspection).
- (c) Routine Inspections: Following the completion of the Plan Implementation Inspections (i.e., after the designing Qualified Professional has certified that stormwater control measures have been installed and stabilized) and notwithstanding the requirements of Section 5.2.5.1 of the general permit, either the designing Qualified Professional or the Qualified Inspector shall conduct weekly Routine Inspections pursuant to Section 5.2.5.2. of the general permit, provided that the designing Qualified Professional shall inspect the site at least once a month, or more frequently if necessary, to confirm that the site is in compliance with the general permit and determine if it is necessary to install, modify, maintain, or repair such controls and/or measures to improve the quality of stormwater discharges.
- (d) In addition to any requirements of Section 5.2.5.2. of the general permit, for projects for which the designing Qualified Professional did not select the Qualified Inspector, the designing Qualified Professional shall seal and certify to the truth and accuracy of each inspection undertaken pursuant to this Section regardless of whether the inspection is performed by such designing Qualified professional or the Qualified Inspector. For projects for which the designing Qualified Professional chose the Qualified Inspector, the Qualified Inspector may submit their inspection reports without the designing Qualified Professional's certification. On or before five (5) days after the completion of each inspection, the Permittee shall ensure that certified inspection reports of all inspections undertaken pursuant to this Section are provided directly to the Permittee and shall ensure that a copy of the certified inspection report of each such inspection is provided to the appropriate District personnel and submitted electronically to the Department via email at DEEP.stormwaterstaff@ct.gov.
- (e) Unless otherwise provided for in this Section, the Permittee shall comply with Section 5.2.5. of the general permit, including, but not limited to, taking action if an inspection indicates that the site is not in compliance with the terms and conditions of the SPCP or the general permit.

- (f) For sites that have ceased all construction activities for the winter, the Permittee shall confirm that the site is stabilized prior to ceasing construction activities. Upon such confirmation, the Permittee may, with the approval of the appropriate District, suspend site inspections until construction resumes, except that a Qualified Inspector shall inspect the site after any rain event of one-half inch or greater.
 - (g) The Permittee shall also ensure that the proposed inspection checklist prepared by the designing Qualified Professional is submitted for the review and approval of the Commissioner and is included with the application for the general permit. No other professionals may serve as the designing Qualified Professional or Qualified Inspector without the prior submittal of relevant credentials and inspection checklist for the Commissioner's review and written approval.
- (6) In addition to the requirements of this general permit regarding inspection checklists, the Permittee shall ensure that a copy of all such checklists is submitted electronically to the Department email (DEEP.stormwaterstaff@ct.gov) and the appropriate District within five (5) days from the date an inspection of the site was performed.
- (7) The Permittee shall ensure, after completion of a construction project, that a Notice of Termination is filed in compliance with Section 4 of this general permit. The Notice of Termination shall be signed by a District representative certifying that such District representative has personally conducted a Post Construction Inspection, Final Stabilization Inspection, and Termination Inspection in accordance with Section 5.2.5. of this general permit and verified compliance with the requirements of those Sections. The Notice of Termination shall not be submitted until the site has achieved and maintained final stabilization (as defined in Section 11) for all phases of construction for at least two (2) years, following the confirmation of final stabilization. For sites, including, but not limited to landfills, where existing vegetation was never disturbed and panels were mounted on ballast blocks, the Notice of Termination shall not be submitted until at least one (1) year following the confirmation of final stabilization. Monthly post-construction inspections shall be conducted by the Qualified Inspector following final stabilization until the Notice of Termination is submitted.
- (8) (a) Prior to undertaking any construction activity, the Permittee shall secure and maintain a Letter(s) of Credit in accordance with the requirements of this Section.
- (b) For sites with a total disturbance of twenty (20) acres or more, the total amount of the Letter(s) of Credit shall be \$15,000.00 per acre of disturbance. For sites with a total disturbance of less than twenty (20) acres, the total amount of the Letter(s) of Credit shall be \$7,500.00 per acre of disturbance. Should a project developer locate more than one project with a total disturbance of less than twenty (20) acres in the same vicinity, for purposes of this Section, the Commissioner reserves the right to combine such projects and consider them as being a site with a total disturbance of twenty (20) acres or more.
- (c) The wording of such Letter(s) of Credit must be identical to the wording specified in Appendix J of the general permit. The Permittee shall maintain such Letter(s) of Credit in effect until the Commissioner notifies the permittee that the Notice of Termination, filed pursuant to the conditions of subsection (d)(i) or (d)(ii), below, has been accepted by the Commissioner.
- (d) At the option of the Permittee, the amount of the Letter(s) of Credit required under Section 8(b) of Appendix I shall be submitted under one of the following conditions:
- (i) If a single Letter of Credit is submitted for the total amount determined in Section (b), above, the Letter of Credit shall be released once a Notice of Termination has been filed in compliance with Section 4 of the general permit and accepted by the Commissioner.

(ii) The permittee has the option of submitting three (3) separate Letters of Credit in the amounts of fifty percent (50%), forty percent (40%), and ten percent (10%) of the total amount determined in Section (b), above.

- The first fifty percent (50%) Letter of Credit may be released upon the written determination by the inspecting District that all perimeter controls, initial erosion and sediment control measures, and construction stormwater traps, basins, swales, and other control measures have been installed, functioning, and stabilized in accordance with the general permit and the SPCP.
- The second forty percent (40%) Letter of Credit may be released upon a determination by the inspecting District that all post-construction stormwater management measures specified in the SWPCP have been installed, functioning and stabilized in accordance with the general permit and the SPCP; and
- The final ten percent (10%) Letter of Credit shall be released once a Notice of Termination has been filed in compliance with Section 4 of the general permit and accepted by the Commissioner.

(9) For solar arrays that are located on top of a closed landfill, authorization under this permit is not required if the following conditions are all met:

- (a) There is no grading, excavation, or other disturbance of the existing vegetated landfill cap.
- (b) Solar panels are mounted on concrete blocks (“ballast blocks”) resting on the surface of the landfill cap.
- (c) All equipment used for panel and infrastructure installation is designated for low ground impact.
- (d) No panels are placed on the landfill side slopes or any slope exceeding ten percent (10%).
- (e) The total area of any grading, excavation, or other disturbance throughout the project is less than one (1) acre.

2.0 Design Requirements for Post-Construction Stormwater Management Measures.

- (1) Post-construction stormwater control measures shall be designed and constructed to provide permanent stabilization and non-erosive conveyance of runoff on the site, to the property line of the site, or downgradient from the site to ensure protection of on- and off-site wetland, wetlands, and waters (as those terms are defined in Section 11 of the general permit) or other natural resources.
- (2) Orientation of panels shall be considered with respect to drainage pattern, flow concentration, drainage area and velocity.
- (3) The permittee shall conduct a hydrologic analysis that:
 - (a) evaluates and controls the 2, 25, 50 and 100-year 24-hour rainfall event post-development peak discharge to the corresponding pre-development peak discharge rates in accordance with the Stormwater Quality Manual, with the following exceptions: that sheet flow is maintained for a maximum length of 100 feet; shallow concentrated flow is calculated using velocity factors per NRCS Part 630 National Engineering Handbook Chapter 15 (the use of TR-55 paved or unpaved velocity factors are not acceptable); if swales are used to convey or control stormwater, such swales shall convey and control stormwater from a 100-year, 24-hour rainfall event; and
 - (b) is based on site specific soil mapping to confirm soil types; and

- (c) is able to determine and confirm the infiltrative capacity of any stormwater management measures. In addition, in areas where grading exceeds a two (2) foot difference between existing and proposed grades, the runoff curve number shall increase by one full HSG (e.g. runoff curve number for soils of HSG B shall be considered HSB C). For sites where grading does not exceed a two (2) foot difference between existing and proposed grades, the runoff curve number associated with the Hydrologic Soil Group present on-site shall increase by one half (1/2) the difference between the Hydrologic Soil Group present on-site and the next higher Hydrologic Soil Group (e.g. half the difference between the runoff curve number for HSG B versus HSG C) to account for the compaction of soils that results from extensive machinery traffic over the course of the construction of the array. For sites where there is no grading and existing vegetation is maintained, no increase in curve number is required; and
- (d) is based on slope gradient, surveyed soil type (adjusted per subparagraph (c), above), infiltration rate, length of slope, occurrence of bedrock, and change in drainage patterns. Pre- and post-development drainage area maps shall be provided showing this information; and
- (e) for an engineered stormwater management system, demonstrates no net increase in peak flows, erosive velocities or volumes, or adverse impacts to downstream properties in accordance with the general permit and the Stormwater Quality Manual.

Figure 1
Solar Panel Installation with Slopes $\leq 5\%$

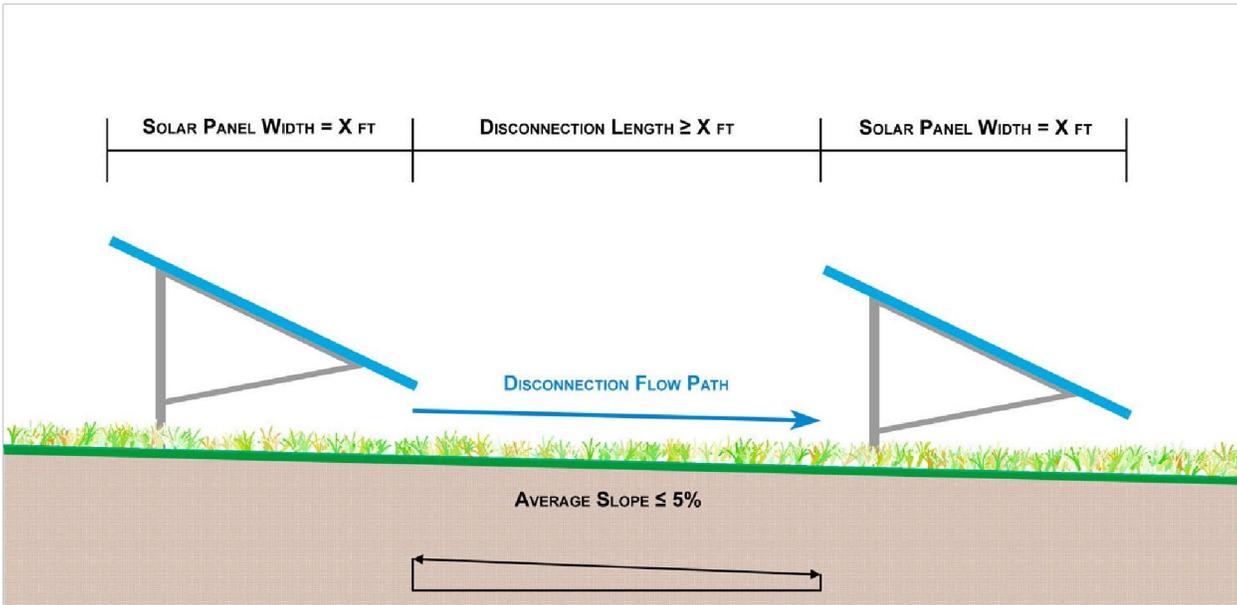
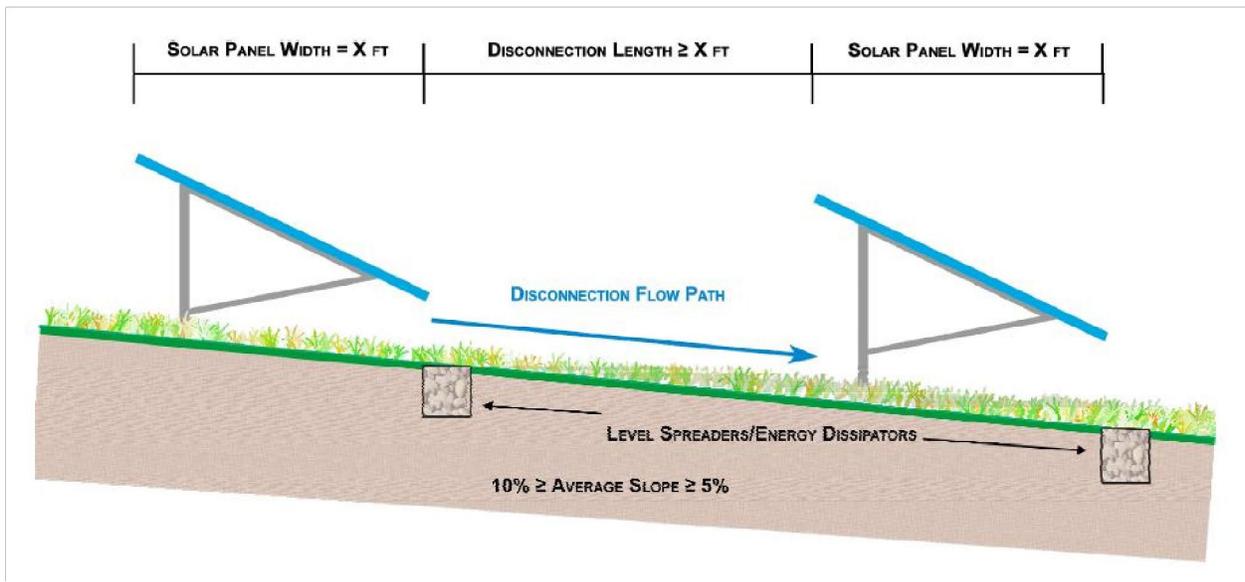


Figure 2
Solar Panel Installation with Slopes $> 5\%$ and $\leq 10\%$



Source: Maryland Department of the Environment: Stormwater Design Guidance – Solar Panel Installations

General Permit for the Discharge of Stormwater from Construction Activities

APPENDIX J

Connecticut Department of Energy and Environmental Protection
Financial Assurance Irrevocable Letter of Credit

Purpose: The Letter of Credit must include the following information:

[Name of Issuing Bank]
[Address of Issuing Bank]

Irrevocable Standby Letter of Credit Number: [XXXX]

Issuance Date: [MONTH, DATE, YEAR]

Total Amount: U.S. \$[XXX,XXX.00]

Beneficiary: Commissioner, Connecticut Department of Energy and
Environmental Protection

Applicant Name:

Applicant Address:

Site Name:

Site Address:

NPDES Permit No: CTR10[xxxx]

Commissioner
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Dear Sir or Madam:

We hereby establish our Irrevocable Standby Letter of Credit No. [XXXX] in your favor, at the request and for the account of the Applicant, [APPLICANT NAME AND ADDRESS], up to the aggregate total amount of [XXX] U.S. Dollars ([\$X,XXX].00). We hereby authorize the Commissioner of the Connecticut Department of Energy and Environmental Protection (“Commissioner”) to draw at sight on us, [NAME AND ADDRESS OF ISSUING BANK], an aggregate amount up to the total amount, available upon presentation of:

- (1) your sight draft, bearing reference to this Letter of Credit No. [XXXX], and
- (2) your signed, dated statement reading as follows: "I certify that the amount of the draft is payable because I have determined one or more of the following has occurred or is occurring:
 - (a) one or more violations of the General Permit for the Discharge of Stormwater from Construction Activities issued by the Commissioner and which is currently in effect, or one or more violations of any other requirement or approval applicable to the management of stormwater at or emanating from [ADDRESS OF SITE] ("the Property"), or
 - (b) stormwater at or emanating from the Property is or has become a potential source of pollution (as that term is defined in Conn. Gen. Stat. § 22a-423) which has not been remedied to my satisfaction within five (5) business days of the Applicant's receipt of a written notice from me that a pollution condition exists, or
 - (c) the Applicant, or any other entity in which the Applicant has a controlling interest, no longer owns, leases, or can control the use of the Property, or no longer owns, operates, or has a controlling interest in the solar array facility located at the Property, or
 - (d) the issuing bank has notified me that it has decided not to extend this letter of credit beyond the current expiration date."

This letter of credit is effective as of [MONTH, DATE, YEAR] and shall expire on [MONTH, DATE, YEAR AT LEAST ONE YEAR LATER], but such expiration date shall be automatically extended for a period of one year and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and Applicant, [APPLICANT NAME], by certified mail or nationally recognized courier service that we have decided not to extend this letter of credit beyond the current expiration date. In the event you are so notified, any unused portion of this letter of credit shall be available upon presentation of your sight draft for 120 days after the date of receipt by you, as shown on the signed return receipts or evidence of courier delivery.

Multiple and partial draws on this letter of credit are expressly permitted, up to an aggregate amount not to exceed the total amount. Whenever this letter of credit is drawn on under and in compliance with the terms of this letter of credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into a Connecticut Department of Energy and Environmental Protection dedicated account in accordance with your instructions.

All banking and other charges under this letter of credit are for the account of the Applicant.

This letter of credit is issued subject to the edition of the Uniform Customs and Practice for Documentary Credits, published and copyrighted by the International Chamber of Commerce, in effect on the date this Letter of Credit is issued.

By signing, the signatory below certifies, under penalty of law, that the issuing institution is an entity which has the authority to issue letters of credit and whose letter of credit operations are regulated and examined by a Federal or State agency.

[SIGNATURE(S) OF OFFICIAL(S) OF ISSUING INSTITUTION]

[TITLE(S) OF OFFICIAL(S) OF ISSUING INSTITUTION]

Date: [MONTH, DATE, YEAR]