

EROSION AND SEDIMENT CONTROLS

GENERAL PRINCIPLES

- 1. Downslope and perimeter controls should be installed before land clearing activities occur.
2. Land disturbance will be kept to a minimum.
3. Limit disturbance to those areas necessary for construction.
4. Stabilize and provide temporary or permanent cover as soon as possible.
5. Earth disturbance should be timed to minimize potential impacts caused by seasonal weather changes.
6. Construction of infiltration measures when used should be delayed to end of construction when upstream drainage areas have been stabilized.
7. Remove temporary perimeter controls only after area has been completely stabilized.
8. Erosion checks consisting of silt fence/staked straw/hay bales and stone check dams shall be installed to prevent siltation down grade of construction.
9. Straw/hay bale and / or filter fabric barriers will be installed at all outlets and along the toe of all critical slopes.
10. Flared and discharge areas will be protected with rip-rap pads.
11. Catch basins will be protected with straw/hay bales and/or filter fabric barriers throughout the construction period and until all disturbed areas are thoroughly stabilized.
12. All erosion and sediment control measures will be constructed in accordance with the standards and specifications of 2002 Connecticut Guidelines for Soil Erosion & Sediment Control.
13. Erosion and sediment control measures will be installed prior to construction whenever possible.
14. All control measures will be maintained in effective condition throughout the construction period.
15. Additional control measures will be installed during the construction period if necessary or required.
16. All erosion and sediment control measures should be cleaned, repaired and/or replaced after every storm and as necessary to ensure effectiveness.
17. Sediment removal from control measures will be disposed of in a manner which is consistent with the intent of the plan.
18. The contractor is assigned the responsibility for implementing the erosion and sediment control plan.
19. The contractor is responsible for upgrading the erosion control measures on site to ensure no silt water enters the on site streams or wetlands or leaves the site.
20. Use clear water diversions to direct runoff from undisturbed, upgradient areas away from disturbed areas in the construction zone.
21. Use temporary fill berms to direct runoff away from constructed slopes on a daily basis.

STABILIZATION PRACTICES

Temporary Stabilization:

Top soil stockpiles and disturbed portions of the site where construction activity temporarily ceases for at least 14 days, will be stabilized with temporary seed and mulch no later than 7 days from the last construction activity in that area.

Permanent Stabilization:

Disturbed portions of the site where construction activities permanently cease shall be stabilized with permanent seed no later than 7 (seven) days after the last construction activity.

STRUCTURAL PRACTICES

The following temporary structural practices will be required by this project (Check all that apply):

- Rip Rap Swales
Haybales
Earth Dikes
Temporary Sediment Basins
Pipe Slope Drain
Stabilized Construction Entrance
Temporary Sediment Trap
Cutoff Swales (stone lined)
Silt Fence
Stone Check Dams
Storm Inlet/ Drain Protection
Coco Logs
Application of Water

Description of temporary structural practices methods, materials, and design guidelines:

- Per CT Erosion Control guidelines
Place haybale check dams perpendicular to hillside erosion barriers along north and south CLL

The following permanent structural practices will be required by this project ( Check all that apply):

- Permanent Sediment Basin
Level Spreader - Rain Garden Berm
Detention Basin
Grass Swale
Paved Swale
Plunge Pool
First Flush Basin
Grass Buffer Strips
Rip-Rap Swale
Stone Check Dams
Infiltration Rain Garden

Description of permanent structural practices, methods, materials and design guidelines:

Rain garden sized to infiltrate design storm

Unless specifically approved in writing, all structural practices shall be installed on upland soils.

DEWATERING WASTEWATERS

The following operation and structural practices will be required on this project to ensure that all dewatering wastewaters will not contain suspended solids in amounts that could reasonably cause pollution of waters of the State and which minimizes the discoloration of receiving waters:

If necessary during construction, pump excavation dry and filter discharge as shown on details P1 and P2 on sheet L-5.2.

Description:

In line hydrodynamic separator sediment & oil trap for permanent condition post-development.

POST CONSTRUCTION STORMWATER MANAGEMENT

The following measures will be installed to control pollutants in stormwater discharges after construction:

- Detention Basins
Vegetated Buffer Strips
Retention Basin / Rain Garden Infiltration
Infiltration
Velocity Dissipation Berm & Scour Hole
Long-term Inspection Required

Description:

Deep sump in CB 2 discharge.

A goal of 80% removal of total suspended solids shall be used in designing stormwater measures, unless specifically provided by DEEP.

SITE DESCRIPTION

Project name and location: 1572 Boston Turnpike Coventry, CT

Owners name, address and phone: XS Realty Holdings, LLC
138 Pembroke Terrace
Glastonbury, CT 06033
(860) 742-6665

Registrant's name address and phone:

Runoff coefficient post development: See report

On-site Soils: Udorthents

Amount and location of wetlands on-site: 5,097.90 ± SF

Immediate and ultimate receiving water(s): Coventry Brook

Project Description: Dental Office

Nature of proposed construction activities: Office building & parking lot

Total area of site: 1.13 ± Acres (49,382 ± SF)

Area of disturbance: .94 ± Acres (41,250 ± SF)

- Sequence of major activities
Preconstruction meeting per L-1.1 notes
Establish erosion and sediment controls, set construction entrances
Strip and stockpile topsoil or remove topsoil from site sequentially, remove vegetation
Protect septic system area and rain garden area
Construct primary and secondary temporary sediment traps
Install septic system
Install building foundations and walks
Undertake general parking area earthwork
Create upper level temporary sediment trap in parking lot area and pump water into lower (primary) temporary sediment trap as needed
When eastern building wall is complete, install rain garden
Install parking lot drainage system and connect to rain garden
Pave parking area
Seed all slopes sequentially as they are completed
Finish building construction
Remove temporary sediment traps and seed
Install final planting

Supporting plans: See also: Supplemental SWPCP Plans prepared by Landscape Architectural Design Associates, P.C. Connecticut Guidelines for Soil Erosion and Sediment Control

POLLUTION PREVENTION PLAN CERTIFICATION

I have personally examined and am familiar with the information submitted in this document and all attachments and 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, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense.

SIGNED: \_\_\_\_\_

Title: \_\_\_\_\_

OWNER/APPLICANT:

DATE: \_\_\_\_\_

CONTRACTORS CERTIFICATION

I certify under penalty of law that I have read and understand the terms and conditions of the general permit for the discharge of stormwater associated with construction activity. I understand that as a contractor or subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including but not limited to the requirements of the stormwater pollution control plan prepared for the site.

SIGNED: \_\_\_\_\_

Name: \_\_\_\_\_

Site Action Responsible for: \_\_\_\_\_

Contractor's Name: \_\_\_\_\_
Address: \_\_\_\_\_
Phone: \_\_\_\_\_
Date: \_\_\_\_\_

SIGNED: \_\_\_\_\_

Name: \_\_\_\_\_

Site Action Responsible for: \_\_\_\_\_

Contractor's Name: \_\_\_\_\_
Address: \_\_\_\_\_
Phone: \_\_\_\_\_
Date: \_\_\_\_\_

SIGNED: \_\_\_\_\_

Name: \_\_\_\_\_

Site Action Responsible for: \_\_\_\_\_

Contractor's Name: \_\_\_\_\_
Address: \_\_\_\_\_
Phone: \_\_\_\_\_
Date: \_\_\_\_\_

OTHER

- Discharge of any substance not specifically described herein shall be considered a violation of this Stormwater Pollution Prevention Plan.
No concrete washout allowed on the site.
No chemical storage is allowed on the site.

SEEDING OPERATIONS

A. FERTILIZER AND LIMESTONE

CONTRACTOR SHALL CONDUCT APPROPRIATE SOIL TESTS TO DETERMINE AMOUNT OF FERTILIZER AND LIMESTONE REQUIRED TO ENSURE AN ACCEPTABLE LAWN.

GROUND LIMESTONE: 100LBS/1000S.F.
COMMERCIAL FERTILIZER: \* 20LBS/1000S.F.
\*PERCENTAGES OF NITROGEN, PHOSPHORIC ACID AND POTASH TO BE DETERMINED BY SOIL TESTS.

B. LAWN SEED

SEED MIXTURE FOR: LATE SUMMER / EARLY FALL / EARLY SPRING PLANTING. SOW AT RATE OF 4 LBS/1000 S.F.
CREEPING RED FESCUE 35 PARTS
CHEWINGS RED FESCUE 20 PARTS
KENTUCKY 31 TALL FESCUE 15 PARTS
ROUGH BLUEGRASS 10 PARTS
BARON BLUEGRASS 20 PARTS

SEED MIXTURE FOR PLANTING MAY 1 TO LATE SUMMER. SOW AT A RATE OF 6 LBS/1000 S.F.
CREEPING RED FESCUE 35 PARTS
CHEWINGS RED FESCUE 20 PARTS
KENTUCKY 31 TALL FESCUE 20 PARTS
DOMESTIC RYEGRASS 25 PARTS

C. WETLAND SEED

APPLY "WETLAND SEED MIXTURE" PREPARED BY NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA AT A RATE OF ONE POUND PER 2,500 S.F. (413) 256-1752

Apply seed uniformly by hand, cyclone seeder, drill or hydroseeder. Seed bed should be prepared by hand raking to loosen and smooth soil and remove surface stones. After seed, the bed should be firmed with a roller. Apply mulch where applicable. Water as necessary.

Additional Stabilization: On steeper than 33%, apply soil stabilization fabric

Additional Stabilization measures required on this project are (check all that apply):

- Tree Protection
Sod Stabilization - Rain Garden Berm
Vegetative Buffer Strips ( Temporary or Permanent )
Geotextiles
Riprap

Description of additional stabilization methods, and design guidelines:

D. SLOPE / MEADOW MIX

APPLY A MIXTURE OF 75% SLOPE SEED MIX AND 25% MEADOW MIX:

SLOPE MIX

SOW AT RATE OF 6 LBS/1000 S.F.
CREEPING RED FESCUE 42 PARTS
FIESTA II PERENNIAL RYEGRASS 34 PARTS
RED TOP 8 PARTS
ALSIKE CLOVER 8 PARTS
BIRDSFOOT TREFOIL 8 PARTS

MEADOW MIX

USE NEW ENGLAND SEED CO. "NEW ENGLAND HORSE PASTURE MIXTURE" AT A RATE OF 100 LB./ACRE. MIX WITH VERMONT WILDFLOWER FARM [(802) 425-3500] DROUGHT TOLERANT PERENNIAL MIX AT A RATE OF 51 LB./ACRE. MIX WITH 20% ADDITIONAL COMMON TALL FESCUE.

MAINTENANCE PRACTICES

Qualified personnel shall inspect disturbed areas of the construction activity, structural control measures, and locations where vehicles enter and exit at least once every 7 days and within 24 hours of the end of any storm of 0.5" or greater. Please also refer to the Connecticut Guidelines for Soil Erosion and Sediment Control. Where conflicts occur, the most conservative applies. Where omissions occur, best management practices apply.

- All control measures will be inspected at least once each week and within 24 hours of any storm event that generates a discharge.
All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of report.
Built up sediment will be removed from the silt fence when it has reached one-third the height of the fence.
Silt fence will be inspected for depth of sediment, tears, and to see that the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
All silt sacks & temporary sediment traps will be inspected for excess deposition of soil and/or damage.
A maintenance inspection report will be made after each inspection.

TIMING OF CONTROLS/ MEASURES

As indicated in the sequence of major activities, the construction entrance and perimeter erosion control will be installed prior to clearing or grading of any other portions of the site. Areas where construction activity temporarily ceases for more than 30 days will be stabilized with a temporary seed and mulch within 14 days of last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch within 7 days. After the entire area is stabilized, accumulated sediment will be removed from the Water Quality Improvement Measures. Perimeter controls will be actively maintained until project is completed and site is stabilized.

ESTABLISHMENT, REGISTRATION, AND UPDATING THE STORMWATER POLLUTION PREVENTION PLAN

This sheet and associated plans shall be updated whenever there is a change of Contractor or Subcontractor or change in design, construction, operation or maintenance at the site which has the potential for discharge of pollutants to the waters of the State, and which has not otherwise been addressed, or if the actions required herein fail to prevent erosion.

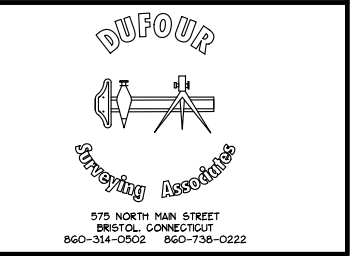
The overall Stormwater Pollution Control Plan shall consist of:

- Application Package including Stormwater Pollution Control Report & General Permit
This Sheet
Details - Sheet L-5.1 & L-5.2
Erosion Control Plan - Sheet L-3
Grading & Utility Plan - Sheet L-2

A registration form with applicable fee must be submitted and plans prepared at least 30 days prior to start of construction activities to:

Department of Environmental Protection
Bureau of Water Management
Engineering and Enforcement Division
79 Elm Street
Hartford, CT 06106
Attn: General Permit Coordinator

Changes to information of the registration must be filed within 15 days. Copies of all documents related to this Stormwater Pollution Prevention Plan must be maintained for at least 5 years after the end of construction. Copies of all documents shall be retained on-site and accessible throughout construction.



Owner & Applicant: XS Realty Holdings, LLC
138 Pembroke Terrace
Glastonbury, CT 06033
(860) 742-6665

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Table with 3 columns: Date, Description, No. (Row 04/08/22, Comments, 1)

Revisions

Coventry, CT

Erosion Control Notes
Dental Office
1572 Boston Turnpike (Route 44)

Project: 2286
Scale: N/A
Date: 02/18/22
Drawn by: MRS
Checked by: PED
Drawing No.

PRIOR TO START OF CONSTRUCTION CALL 1-800-922-4455 BEFORE YOU DIG!