

ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice Chairman

RICHARD FRANZETTI, P.E.
Wetland Inspector

ROSE TROMBETTA
Secretary

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD



60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Anthony Federice
Emily Lavelle

ENVIRONMENTAL CONSERVATION BOARD AGENDA

FEBRUARY 15, 2024 – 7:30 P.M.

SUBMISSION OF APPLICATION OR LETTER OF PERMISSION

<u>APPLICANT</u>	<u>ADDRESS</u>	<u>TAX MAP #</u>	<u>COMMENTS</u>
1. Girolamo, Mark & Denise	276 West Lake Blvd.	64.16-1-26	Amend Existing Wetland Permit to Include Construction of Retaining Wall Between Garage Addition & Lake.

MISCELLANEOUS:

2. MINUTES: January 18, 2024



Tether Rock
Management

636 Empire Rd - #5, Copake, NY 12516

Cell
(914) 522-3810

Email
Chris.Tetherock@gmail.com

February 12, 2024

Robert Laga
Chairman of the Carmel Environmental Conservation Board
Town of Carmel
60 McAlpin Avenue, Mahopac, New York 10541

RE: Amend Building Permit # 23-040 - 276 West Lake Blvd
and ECB approval dated March 17, 2022
Tax Map # 64.16-1-26
Amendment to add retaining wall behind garage addition
Revisions to Plan adding Drainage

Dear Chairman Laga and Members of the Board,

Attached please find the revised drawings regarding resubmission for the above referenced application with the following changes and additions as requested:

1. Sheet 2 has been added to include subsurface drainage chambers which have been sized to accommodate a 25 year storm event for all impervious surfaces added to the site with respect to the garage addition and retaining walls.
2. Note has been added to the ECB Notes on sheets 1 and 2 requiring that the contractor provide certification that all fill materials are clean and free of hazardous materials.
3. Note has been added to the ECB Notes on sheets 1 and 2 requiring that the contractor provide certification that all fill materials are clean and free of hazardous materials.
4. ECB Notes have been modified to the on sheets 1 and 2 and the plans requiring that the contractor provide wire backed silt fence in lieu of haybales.
5. Note has been added to the ECB Notes on sheets 1 and 2 stipulating that any work within 5' of the lake waterline will require the use of a floating pool.
6. The construction sequencing notes have been modified to include installation of the proposed drainage system.

Please feel free to contact me on my cellphone or by email if you should require any additional information or further action on this application.

Respectfully submitted

Chris Pateman

Girolamo Residence - Stormwater Calculations

276 West Lake Blvd, Mahopac, NY 10541

(Design Storm: 25 year Storm Event - Rainfall Intensity- 6.0 inches)

<u>Item:</u>	<u>Size:</u>	<u>Area</u> <u>(S.F.):</u>	<u>Volume</u> <u>(C.F.):</u>
Proposed Garage	24' x 32'	768.0	384.0
Proposed Covered Walkway		222.0	111.0
Total Impervious Area:		990.0	495.0
Total Impervious Area/Volume:		990.0	495.0
<u>Total Impervious Area to be Captured by Cultec System:</u>			
Existing Roof Runoff		990.0	495.0
Total Volume Captured:		990.0	495.0
Total Volume Provided:			547.3
<u>Water Quality Volume (WQ_v)</u>			
WQ _v = (P*R _v *A)/12 (in acre-feet)			
where WQ _v = water quality volume			
P = 90% Rainfall Event - 25 year storm - 6 inches			
R _v = 0.05 +0.009(I), where I is percent impervious cover - I = 100%, R _v = 0.95			
A = site are in acres (contributing area) - Roof area 990 S.F. = 0.02 acres			
WQ _v = (6*0.95*0.02)/12 = 0.0095 acre-ft = 413.8 C.F.			
Total Volume provided is 547.3c.f. and 495.0 c.f. is being captured and treated via infiltration			





CULTEC Stormwater Design Calculator

Please Fill in the Shaded Cells

Project Information:

Project Name
Address
City
State/Province
ZIP/Postal Code
Country

Girolamo Residence
276 West Lake Blvd
Mahopac
New York
10541
USA

Calculations Performed By:

Name	Jeffrey A. Econom, P.E.
Company Name	Consultant
Address	48 Loganberry Court
City	Hopewell Junction
State/Province	New York
ZIP/Postal Code	12533
Country	USA
Phone	(845) 554-8442
Email	jaeconom@optonline.net

Date:

February 9, 2024
Project Number:
24-02

Input Project Requirements

Unit of Measure
Select Model

Imperial
Recharger 280HD

Stone Porosity
Number of HVLV Internal Manifolds
Stone Depth **Above** Chamber
Stone Depth **Below** Chamber
Stone **Between** Chamber rows
 Include Separator Row

40%	
External Pipe Manifold	
12	inches
24	inches
12	inches

Workable Bed Depth
Max. Bed Width
Storage Volume Required
Stone Base Elevation

6.00	feet
25.00	feet
495.00	cu. feet
1.00	feet

Additional Information:

Other models are available if products above do not meet your requirements. Contact CULTEC for further design assistance.
Call CULTEC at 203-775-4416 for pricing information.

Hyperlinks to product specific webpages:

Please visit our website for more information such as CAD details, spec information, brochures, installation instructions, and other design tools on certain models.

[Contactor Field Drain C-4HD](#)
[Contactor 100HD](#)
[Recharger 150XLHD](#)
[Recharger 180HD](#)

[Recharger 280HD](#)
[Recharger 330XLHD](#)
[Recharger 360HD](#)
[Recharger 902HD](#)

[HVLV SFGx2 Feed Connector](#)
[HVLV FC-24 Feed Connector](#)
[HVLV FC-48 Feed Connector](#)

[CULTEC No. 4800 Woven Geotextile](#)
[CULTEC No. 410 Non-Woven Geotextile](#)

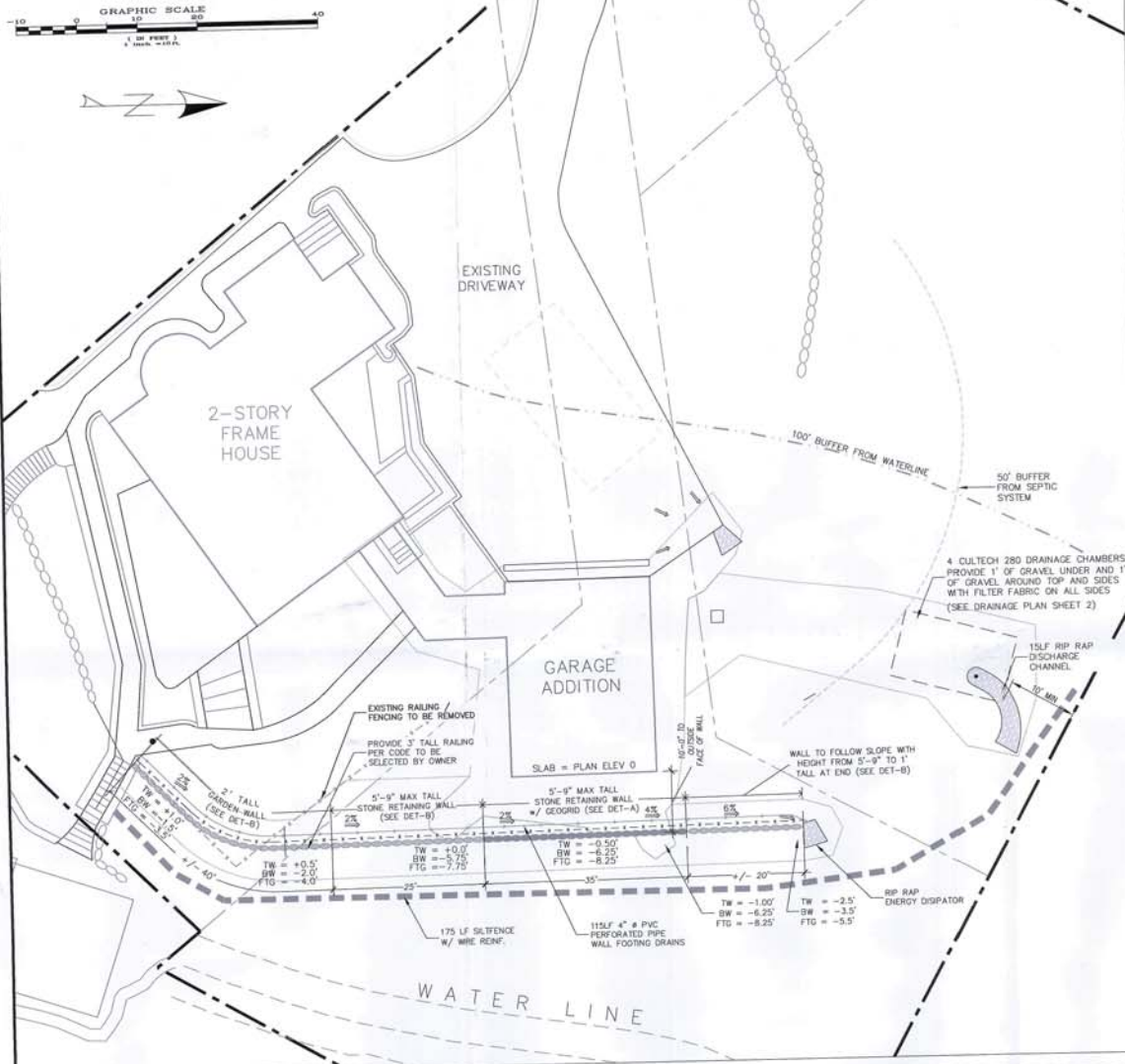
For design assistance, drawings and pricing send these calculations to:
<mailto:tech@cultec.com>

Website:
www.cultec.com

Recharger 280HD Incremental Storage Volumes

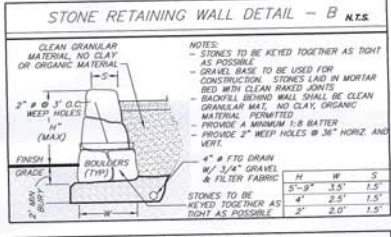
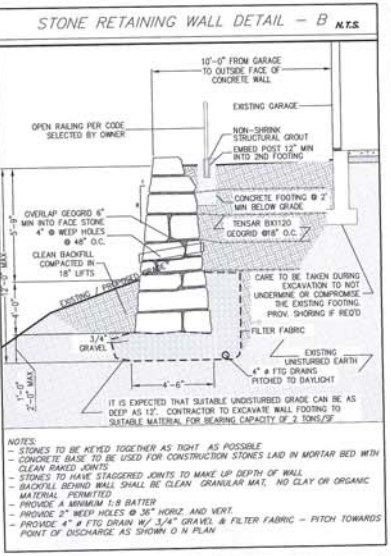
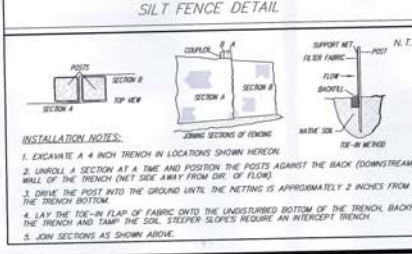
Height of System		Chamber Volume		HVLV Feed Connector Volume		Stone Volume		Cumulative Storage Volume		Total Cumulative Storage Volume		Elevation	
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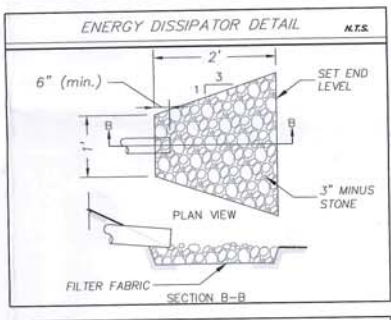
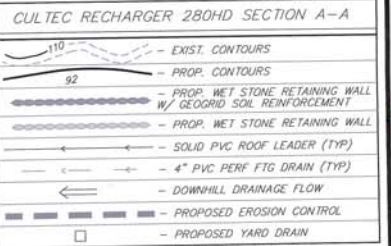


- ECB NOTES**
- CONSTRUCTION SILT FENCE SHALL BE PROVIDED WITH WIRE BACKING
 - NO OVERNIGHT STORAGE OF EQUIPMENT UNLESS STORED ON A MIL POLY
 - ALL FUELING OPERATIONS FOR EQUIPMENT IS TO BE DONE OUTSIDE OF THE
 - 100' BUFFER OF THE LAKE AND SHALL BE CLOSELY MONITORED TO ENSURE NO FUEL OR OIL IS SPILLED.
 - CONTRACTOR TO PROVIDE A BRUTE 32 GALLON SPILL-KIT ON SITE AT ALL TIMES AND IMMEDIATELY ADJACENT TO EQUIPMENT DURING FUEL FILLING.
 - ALL CONDITIONS OF THE CURRENT SWPPP AND ECB APPROVAL ARE TO BE FOLLOWED.
 - CONTRACTOR TO PROVIDE CERTIFICATION THAT ALL FILL MATERIALS IS CLEAN AND FREE OF HAZARDOUS MATERIALS
 - ANY WORK WITHIN 5' OF THE LAKE WATERLINE REQUIRES INSTALLATION OF A FLOODING POOL.

- CONSTRUCTION SEQUENCING**
- INSTALL EROSION CONTROL MEASURES
 - INSPECTION OF THE EROSION CONTROL MEASURES BY THE CARMEL ENG DEPT.
 - COMMENCE EXCAVATION TO PROVIDE A SAFE PATH FOR MACHINE ACCESS
 - EXCAVATE FOOTINGS AND CONSTRUCT WALL STARTING ON THE SOUTH SIDE ADJACENT TO THE EXISTING STAIRS BEHIND THE RESIDENCE WORKING NORTH
 - WALL CONSTRUCTION TO COMMENCE NORTHWARD COMPLETING CONSTRUCTION WHILE BACKFILLING FINAL GRADING AND SEEDING IN SECTIONS OF APPROXIMATELY 30FT AT A TIME.
 - INSTALL DRAINAGE SYSTEM
 - INSTALL RIP RAP ENERGY DISSIPATORS AND SITE STABILIZATION MEASURES
 - REMOVAL EQUIPMENT AND PERFORM FINAL CLEAN-UP OF SITE AND GRASS SEED AS SOIL STABILIZATION MEASURES.
 - REQUEST FINAL INSPECTION OF SITE



- CONSTRUCTION NOTES**
- THE CONTRACTOR SHALL CONTACT THE UNDERGROUND LINE LOCATION SERVICE (CODE 311) 41-300 - 245 - 2828 PRIOR TO STARTING ANY WORK
 - PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES IN THE FIELD
 - THE LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE AND THEREFORE THE ACCURACY OF LOCATION, EXISTENCE OF THE UTILITIES OR STRUCTURES IS NOT GUARANTEED BY THE OFFICE
 - CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS AND REQUIREMENTS OF THE MUNICIPAL ENGINEERING DEPARTMENT AND THESE PLANS AND INFORMATION FROM THE PLAN SHALL BE APPROVED BY THE TOWN ENGINEER AND THE DESIGN ENGINEER
 - UTILITY STAKES AND UTILITY LOCATIONS SHALL BE STAKED IN THE FIELD BY A NYS LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION
 - THE LOCATION, DESIGN AND INSTALLATION OF UNDERGROUND UTILITIES (GAS, ELECTRIC, CABLE, TELEPHONE) SHALL BE AS DIRECTED BY THE UTILITY COMPANIES AND THE TOWN ENGINEER
 - IF REWORKING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS
 - IF UNFORESEEN UNDERGROUND CONDITIONS ARE ENCOUNTERED (I.E. ROCK, GROUNDWATER, ETC.) THE CONTRACTOR PRIOR TO CONTINUING WORK, SHALL CONTACT THE DESIGN ENGINEER. ALL NECESSARY MODIFICATIONS OR CHANGES SHALL BE MADE BEFORE WORK CAN CONTINUE.
 - THE CONTRACTOR IS TO PROVIDE TRENCH SHEETING AS REQUIRED BY NYSDOT, OSHA AND ANY DEPT OF LABOR, INDUSTRIAL CODE RULE 23 WHERE APPLICABLE. THE TRENCH DEPTH IS 4.5'
 - DAMAGE (IF ANY) TO ADJACENT PROPERTIES SHALL BE REPAIRED BY CONTRACTOR
 - EROSION CONTROL MEASURES AS DETICED ON THESE PLANS SHALL BE IN PLACE PRIOR TO THE START OF ANY EXCAVATION OR PILING OPERATIONS
 - FOOTING STAKES ARE TO BE 4" PVC PIPE WITH 1/2" OF CLEAN GRAVEL OVER AND EXTENDED TOWARD POINT OF DISCHARGE AS SHOWN HEREON.
 - A SUBSURFACE STORM DRAINAGE SYSTEM SHALL BE PROVIDED FOR DESIGN CAPACITY CAPABLE OF ACCOMMODATING THE STORM WATER RUN-OFF FROM ALL 25-YEAR STORM INTERVENING SURFACES
 - ALL NEWLY SLOPED AREAS SHALL NOT EXCEED A PITCH OF 1 VERTICAL TO 2 HORIZONTAL AND SHALL BE STABILIZED WITH APPROPRIATE PLANTINGS
 - GARAGE PARKING FOR 2 CARS WILL BE PROVIDED
 - ALL UTILITIES ARE UNDERGROUND
 - MAINTENANCE OF RETAINING WALLS ARE RESPONSIBILITY OF INDIVIDUAL PROPERTY OWNER
 - ALL GRADING TO BE PERFORMED TO CREATE POSITIVE DRAINAGE
 - NO WORK TO CONFORM WITH THE REQUIREMENTS OF THE TOWN OF CARMEL BUILDING DEPARTMENT, ENGINEERING DEPARTMENT AND ENVIRONMENTAL CONSERVATION BOARD.



- EROSION CONTROL NOTES**
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
 - CONTRACTOR IS RESPONSIBLE FOR THE TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND AFTER EACH HEAVY RAIN, TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO START OF CONSTRUCTION.
 - THE LOCATION AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STRUCTURES SHALL BE AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES MANUAL FOR EROSION AND SEDIMENT CONTROL.
 - ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE, SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 14 DAYS.
 - ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 21 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
 - THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL, DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
 - SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
 - ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES MANUAL FOR EROSION AND SEDIMENT CONTROL.
 - INSPECTION OF EROSION CONTROL BY A TOWN REPRESENTATIVE PRIOR TO EXCAVATION.
 - ALL DRAINAGE FACILITIES SHALL BE INSPECTED PRIOR TO BACKFILLING BY A TOWN REPRESENTATIVE. (FOR ANY PROPOSED SUBSURFACE STORMWATER TREATMENTS)

Tether Rock
 CONSULTING ENGINEER
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 HOFFVELL JUNCTION, N.Y. 12530
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MARK GIROLAMO
 OWNER
 275 WEST LAKE BLVD
 WEST LAKE, NY 12584
 PHONE: 914-581-0189

PROPOSED RETAINING WALL PLAN

Project Address
 275 WEST LAKE BLVD
 WEST LAKE, NY 12584

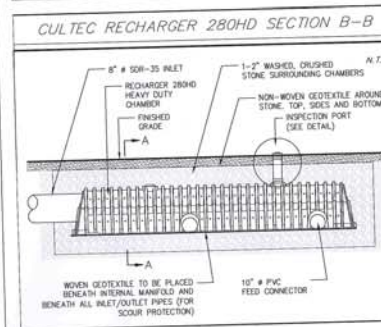
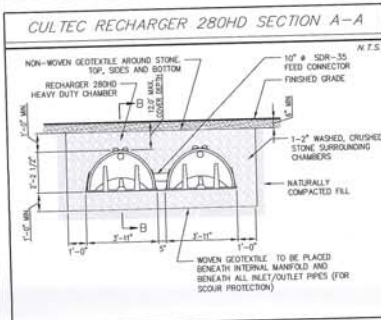
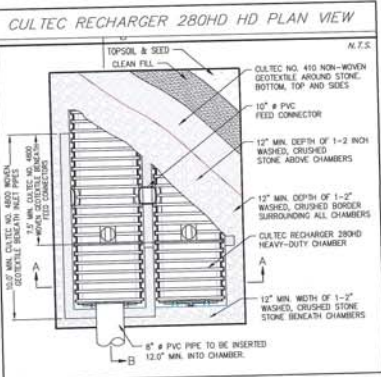
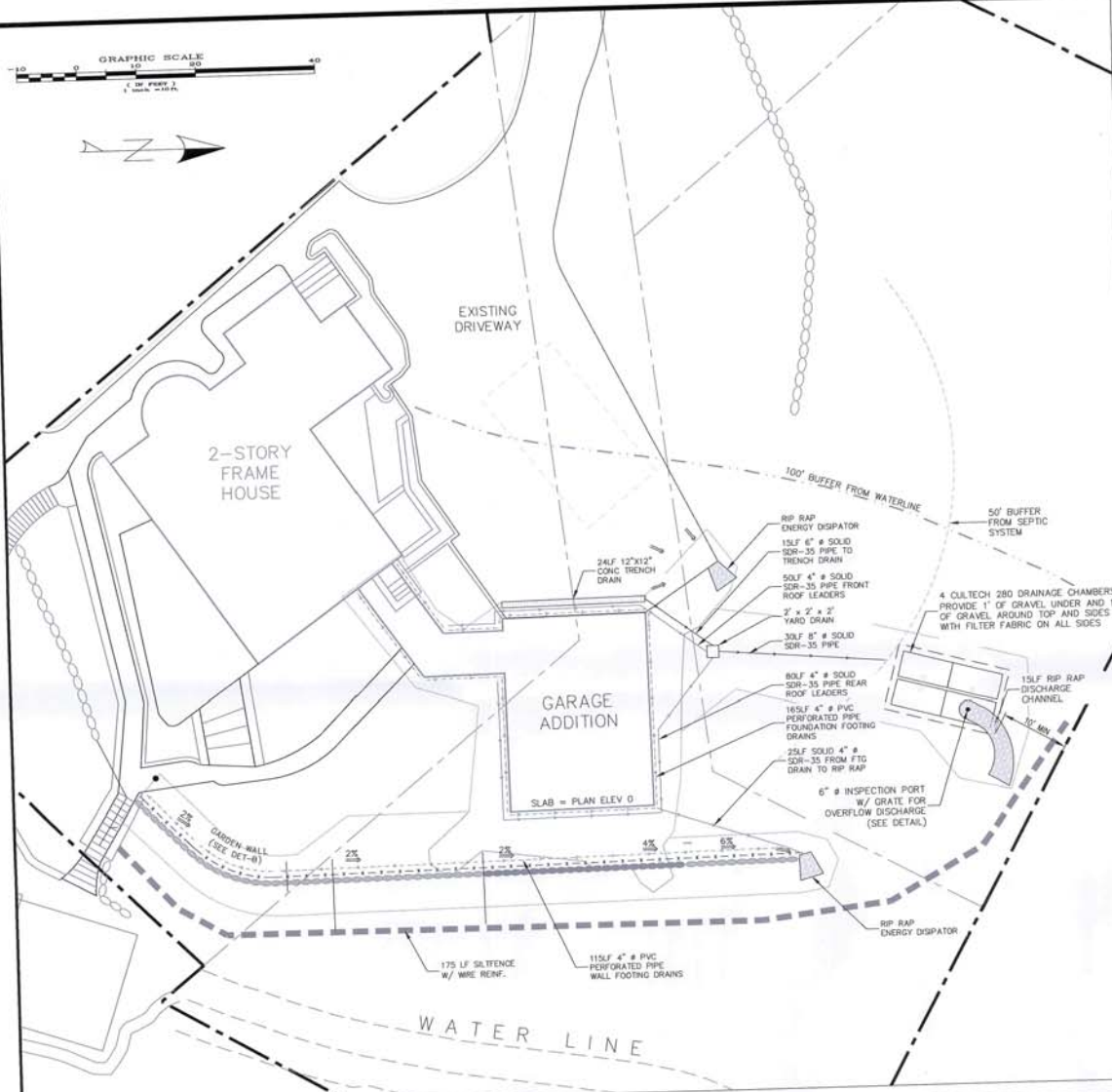
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#1 BLEND PERMIT	
#2 WALL, LOT & NOTES	02/20/24
#3 DRAINAGE ADDED	03/20/24

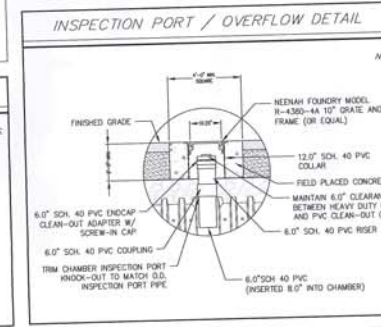
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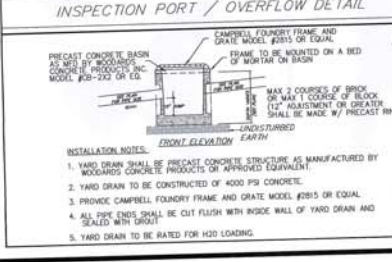


- ### CULTEC RECHARGER 280HD SPECIFICATIONS
- GENERAL
CULTEC RECHARGER 280HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT.
- CHAMBER PARAMETERS
1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4418 OR 1-800-420-5832)
- THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
 - THE CHAMBER WILL BE ARCHED IN SHAPE.
 - THE CHAMBER WILL BE OPEN-BOTTOMED.
 - THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLERS OR SEPARATE END WALLS.
 - THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 280HD CHAMBER WILL BE 26.5 INCHES TALL, 47 INCHES WIDE AND 8 FEET LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 280HD SHALL BE 7 FEET.
 - THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD.
 - THE NOMINAL CHAMBER DIMENSIONS OF THE FEED CONNECTOR SHALL BE 12 INCHES TALL, 16 INCHES WIDE AND 24.2 INCHES LONG.
 - THE NOMINAL STORAGE VOLUME OF THE RECHARGER 280HD CHAMBER WILL BE 6.079 FT³ / FT - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 280HD SHALL BE 42.553 FT³ / UNIT - WITHOUT STONE.
 - THE NOMINAL STORAGE VOLUME OF THE FEED CONNECTOR WILL BE 0.913 FT³ / FT - WITHOUT STONE.
 - THE RECHARGER 280HD CHAMBER WILL CONTAIN SEVENTY-TWO DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
 - THE RECHARGER 280HD CHAMBER SHALL HAVE 15 CORRUGATIONS.
 - THE ENDWALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
 - THE RECHARGER 280HD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 9 INCHES HIGH X 35 INCHES WIDE.
 - THE RECHARGER 280HD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 9 INCHES HIGH X 35 INCHES WIDE.
 - THE RECHARGER 280HD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
 - THE FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 280HD AND ACT AS CROSS FEED CONNECTIONS.
 - CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
 - THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S INSTALLATION INSTRUCTIONS.



- ### ECB NOTES
- CONSTRUCTION SILT FENCE SHALL BE PROVIDED WITH WIRE BACKING AND OVERNIGHT STORAGE OF EQUIPMENT UNLESS STORED ON 6 MIL POLY.
 - ALL FUELING OPERATIONS FOR EQUIPMENT IS TO BE DONE OUTSIDE OF THE 100' BUFFER OF THE LAKE AND SHALL BE CLOSELY MONITORED TO ENSURE NO FUEL OR OIL IS SPILLED.
 - CONTRACTOR TO PROVIDE A BRUTE 32 GALLON SPILL-KIT ON SITE AT ALL TIMES AND IMMEDIATELY ADJACENT TO EQUIPMENT DURING FUEL FILLING.
 - ALL CONDITIONS OF THE CURRENT SWPPP AND ECB APPROVAL ARE TO BE FOLLOWED.
 - CONTRACTOR TO PROVIDE CERTIFICATION THAT ALL FILL MATERIALS IS CLEAN AND FREE OF HAZARDOUS MATERIALS.
 - ANY WORK WITHIN 5' OF THE LAKE WATERLINE REQUIRES INSTALLATION OF A FLOATING POOL.

- ### CONSTRUCTION SEQUENCING
- INSTALL EROSION CONTROL MEASURES
 - INSPECTION OF THE EROSION CONTROL MEASURES BY THE CAMEL ENG DEPT.
 - COMMENCE EXCAVATION TO PROVIDE A SAFE PATH FOR MACHINE ACCESS
 - EXCAVATE FOOTINGS AND CONSTRUCT WALL STARTING ON THE SOUTH SIDE ADJACENT TO THE EXISTING STAIRS BEHIND THE RESIDENTS WORKING NORTH.
 - WALL CONSTRUCTION TO COMMENCE NORTHWARD COMPLETING CONSTRUCTION WHILE BACKFILLING, FINAL GRADING AND SEEDING IN SECTIONS OF APPROXIMATELY 30 FT AT A TIME.
 - INSTALL DRAINAGE SYSTEM
 - INSTALL RIP RAP ENERGY DISSIPATOR AND SITE STABILIZATION MEASURES
 - DEMOLOGUE EQUIPMENT AND PERFORM FINAL CLEAN-UP OF SITE AND GRASS SEED AS SOIL STABILIZATION PLANTINGS.
 - REQUEST FINAL INSPECTION OF SITE



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MAYFAIR, N.Y. 10341
PHONE: 914-564-0180

PROPOSED DRAINAGE PLAN
Project Address
276 W. LAKE BLVD
MAYFAIR, N.Y. 10341

Revisions:
1. BLDG PERMIT
2. WALL H/W NOTED
3. FINISHING ADDED

Scale:
drawn by: [blank]
checked by: [blank]
date: 12/15/23

of Sheets: **S-2**