Town of Washington Inland Wetlands Commission

APPLICATION TO MODIFY AN APPROVED PERMIT

1. Address of Permitted Activity: 236 NETTLETON HOLLOW RD
2. Name of Property Owner: JOSEPH BARATTA
3. Granted Permit # IW- 20 - 07 Approval Date: 3-11-20 Granted for: 5 years
4. Mailing Address of Property Owner: 236 NETTLETON HOLLOW RD WASHINGTON, CT 06793
5. Property Owner's Phone Number: 860-619-0226 Email: JOSEPH.BARATTA@GOOGLEMAIL.COM
6. Authorized Agent: MATTHEW J. GIRONDA, P.E. Letter of Authorization? ☑Yes ☐No
7. Agent's Phone Number: 914-277-5805 EXT. 316 Email: MGIRONDA@BIBBOASSOCIATES.COM
8. Brief Discussion of Permitted Activity(s): MINOR ADDITIONS TO EXISTING DWELLING AND CONSTRUCTION OF NEW FLAGSTONE PATIO WITHIN 100' REVIEW AREA.
9. Per Section 8.08.b of the Inland Wetlands & Watercourses Regulations please provide on a separate sheet:
   a. reasons for and nature of all proposed revisions
   b. assessment of the potential increase or diminished impact to the wetlands, watercourses, and/or to the regulated area due to the proposed revision
   c. revised site plan or map
   d. revised sequence of construction
   e. revised erosion and sedimentation control plan (if applicable)
   f. any other pertinent information
10. This application must be completed in its entirety, signed by the property owner and supporting documents: 1) Attached required information, 2) Yellow Mandatory Land Use Pre-Application Form signed by the property owner, written approval from the conservation easement holder, if applicable, 3) Agent Authorization Letter, if applicable, and 4) $60 Fee – per Section 9.01 of the Inland Wetlands & Watercourses Regulations.

The undersigned property owner consents to necessary and proper inspections of the above mentioned property by the IWC and/or its agent at reasonable times, both before and after action on this application:

Signature of Property Owner (live ink) — Date: 03-08-2021

Office Use: Approved Permit: IW- 20 -07M Fee: $ 60.00 Check # 1277 Date: 3-8-2021 Cash___
Received by: S White Date: 3-8-2021 Scanned x (by sw 03-09-2021)

TOWN OF WASHINGTON
BRYAN MEMORIAL TOWN HALL
POST OFFICE BOX 383
WASHINGTON DEPOT, CT 06794

INLAND WETLANDS COMMISSION
SITE INSPECTION REPORT

APPLICATION: MODIFICATION OF APPROVED PERMIT IW-20-07

INSPECTION DATE: 4/6/21 **Time:** 4:00-5:00 p.m.

APPLICANT: Joseph Baratta

ADDRESS: 236 Nettleton Hollow Road

REASON FOR APPLICATION: Cancel Proposed Demolition of Existing Building; Add Two Small Covered Porches to Site; Construct New Stone Patio

MEMBERS PRESENT: Bob Papsin, Susan Branson, Larry Gendron, Joline Audet, Charles LaMuniere

OTHERS PRESENT: Matthew Gironda, P.E.

OBSERVATIONS:

Site Inspection participants gathered in the parking lot adjacent to the house's main entrance. Commissioners requested Mr. Gironda to clarify the discrepancy between his note covering the permit modification request stating that the applicant had now decided not to demolish and reconstruct the existing dwelling, whereas the Sequence of Operations in the 3/8/21 revised EC.1 Plan read in paragraph 4: "Begin demolition of house" and in paragraph 5: "Begin construction of new dwelling". Mr. Gironda explained that the error was due to the inclusion of the unmodified Plan provided as part of the original application and that the error would be corrected.

Commissioners requested that an updated EC.1 Plan be provided which should include a Sequence of Operations more reflective of the work proposed in the permit modification request; a mention of the machinery to be used; and the shown location of the large tree growing close to the house near its southeastern corner, which is not to be cut.

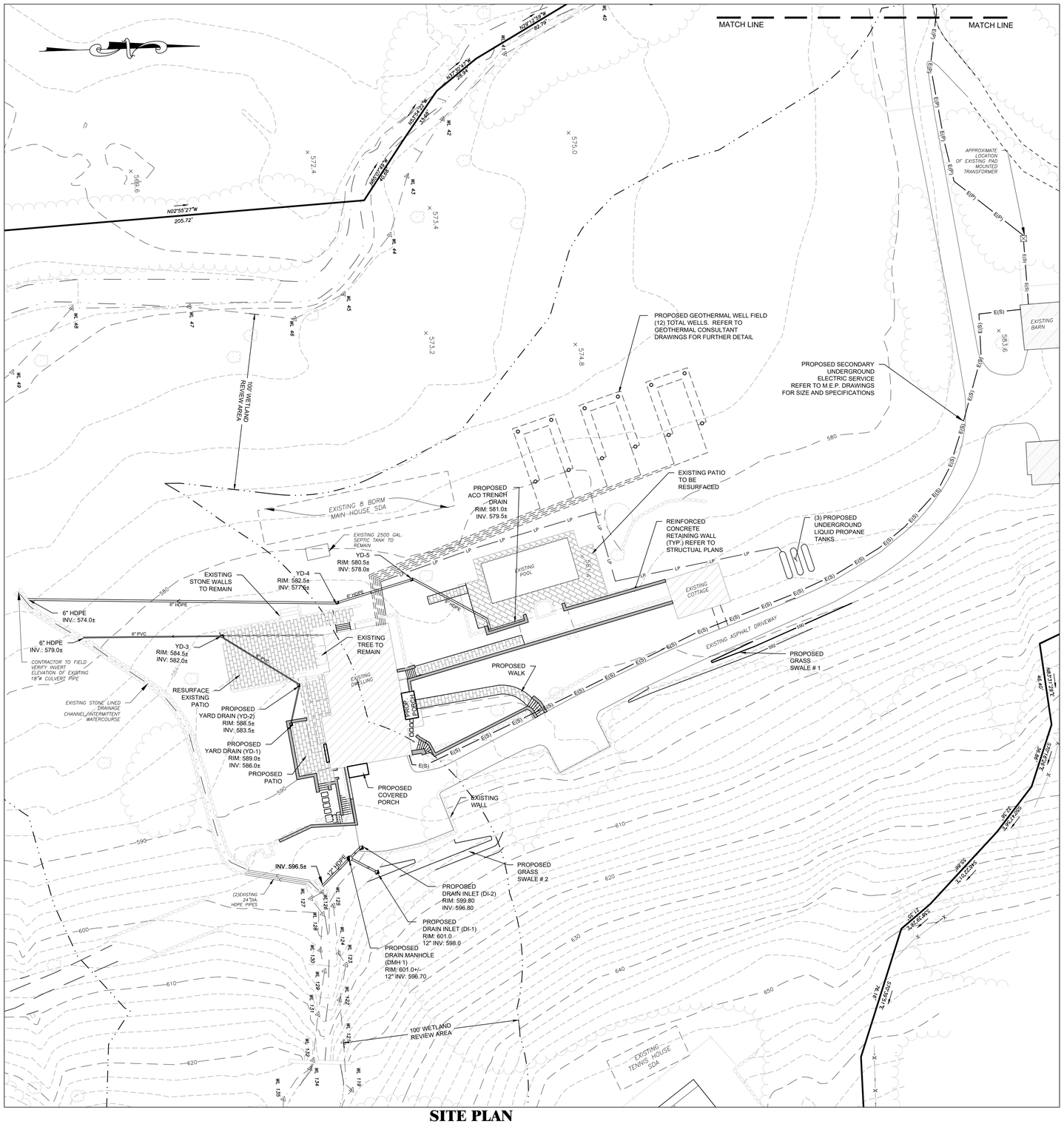
Commissioners then viewed the proposed new patio area on the eastern side of the house that is to be bordered by walls, the specifications of which were not provided. Mr. Gironda informed that the new patio floor would be impervious as the flagstones, laid on a base of sand/stone dust, would be tightly joined. Rainwater, however, would flow to

the edge of the retaining walls where it would be captured at three different locations by Yard Drains before linking on the southwestern corner of the existing large patio with a six-inch pipe that egresses downslope into an intermittent stream. Commissioners requested additional information as to the construction, materials, height and width of the proposed retaining walls.

Regarding the large existing patio at the southwestern corner of the house, Mr. Gironda informed that consideration was being given to dismantling and rebuilding the high retaining wall on its western border. Commissioners checked the wall's condition and did not find evidence of significant structural defects in its current condition. While this possible regulated activity is not included in the present permit application, it would require, should it be formalized, a detailed justification given the considerable amount of work entailed all within the URA. Mr. Gironda undertook to enquire further into this matter and would get back to the IWC.

Commissioners hoped that the additional information and documentation identified during the site inspection could be provided in sufficient time for their review before the IWC's next regular meeting on 4/14/21.

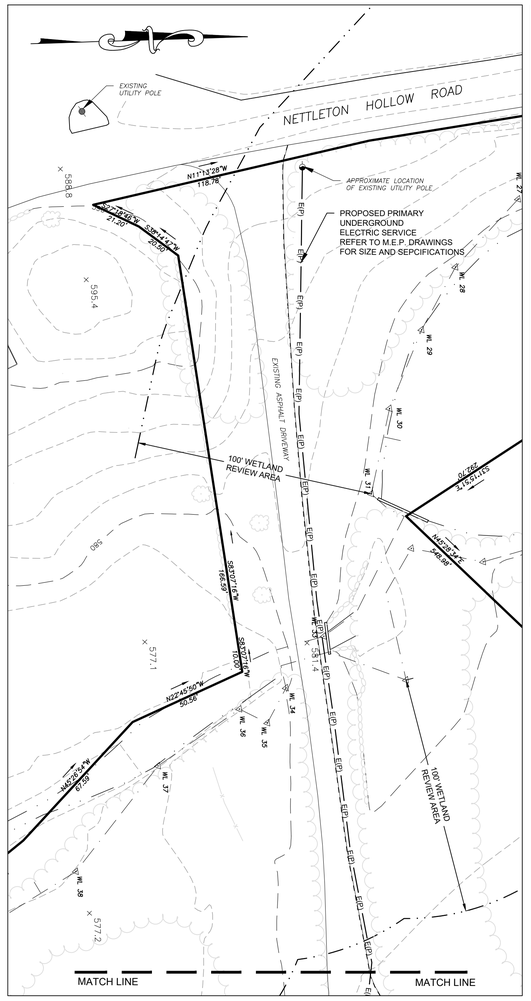
Respectfully submitted,
Charles LaMuniere 4/7/21



SITE PLAN
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.



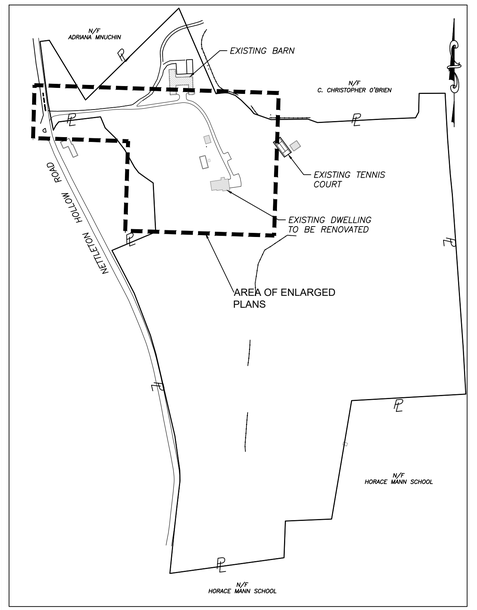
SITE PLAN
GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

LEGEND

- EXISTING PROPERTY LINE (OVERALL MAP)
- EXISTING PROPERTY LINE (SITE PLAN) — N11°13'28"W 118.78'
- EXISTING 2' CONTOUR
- EXISTING 10' CONTOUR — 580
- EXISTING WETLAND BOUNDARY
- EXISTING WATERCOURSE
- EXISTING TREELINE
- PROPOSED 6" HDPE ROOF DRAIN PIPE — RD
- PROPOSED BURIED ELECTRIC (PRIMARY) — E(P) E(P)
- PROPOSED BURIED ELECTRIC (SECONDARY) — E(S) E(S)
- PROPOSED 2' CONTOUR — 592
- PROPOSED 10' CONTOUR — 590
- PROPOSED REINFORCED CONCRETE RETAINING WALL.



OVERALL MAP
SCALE 1"=300'

GENERAL NOTES:

1. EXISTING PROPERTY BOUNDARIES, SITE FEATURES, TOPOGRAPHIC INFORMATION AND WETLAND BOUNDARIES SHOWN HEREON OBTAINED FROM TOPOGRAPHIC SURVEY PREPARED BY T. MICHAEL ALEX, L.L.S. DATED DECEMBER 2019.
2. EXISTING SUBSURFACE SEWAGE TREATMENT SYSTEM LOCATIONS SHOWN HEREON OBTAINED FROM SEPTIC AS-BUILT PLANS FILED ON THE TOWN OF WASHINGTON HEALTH DEPARTMENT AND PREPARED BY BRIAN E. NEFF, P.E. CONTRACTOR SHALL VERIFY THEIR LOCATION PRIOR TO EXCAVATION.
3. ANY IMPORTED SOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR QUALITY AND RESIDENTIAL PURPOSES.
4. PRIOR TO EXCAVATION THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A MARKOUT OF ALL SUBSURFACE UTILITIES WITHIN THE WORK ZONE. THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER UPON VERIFICATION OF EXISTING UTILITY LOCATIONS TO DETERMINE IF FIELD CHANGES ARE REQUIRED.
5. ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER/APPLICANT.
6. UPON COMPLETION OF CONSTRUCTION A FINAL AS -BUILT SURVEY SHALL PREPARED BY A LICENSED LAND SURVEYOR AND SUBMITTED TO THE TOWN FOR FINAL APPROVAL.

REMOVALS NOTES:

1. ALL EXCESS MATERIAL AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL GUIDELINES.
2. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF REMOVAL OPERATIONS AND SHALL BE MAINTAINED UNTIL DISTURBED AREAS HAVE BEEN STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL NOTES PROVIDED ON SHEET EC-1.
3. ALL AREAS DISTURBED DURING REMOVAL OPERATIONS WHICH ARE NOT LOCATED WITHIN FUTURE BUILDING, DRIVEWAY OR HARDSCAPE AREAS SHALL BE STABILIZED WITH SEED AND MULCH IN ACCORDANCE WITH THE EROSION CONTROL NOTES PROVIDED ON SHEET EC-1.

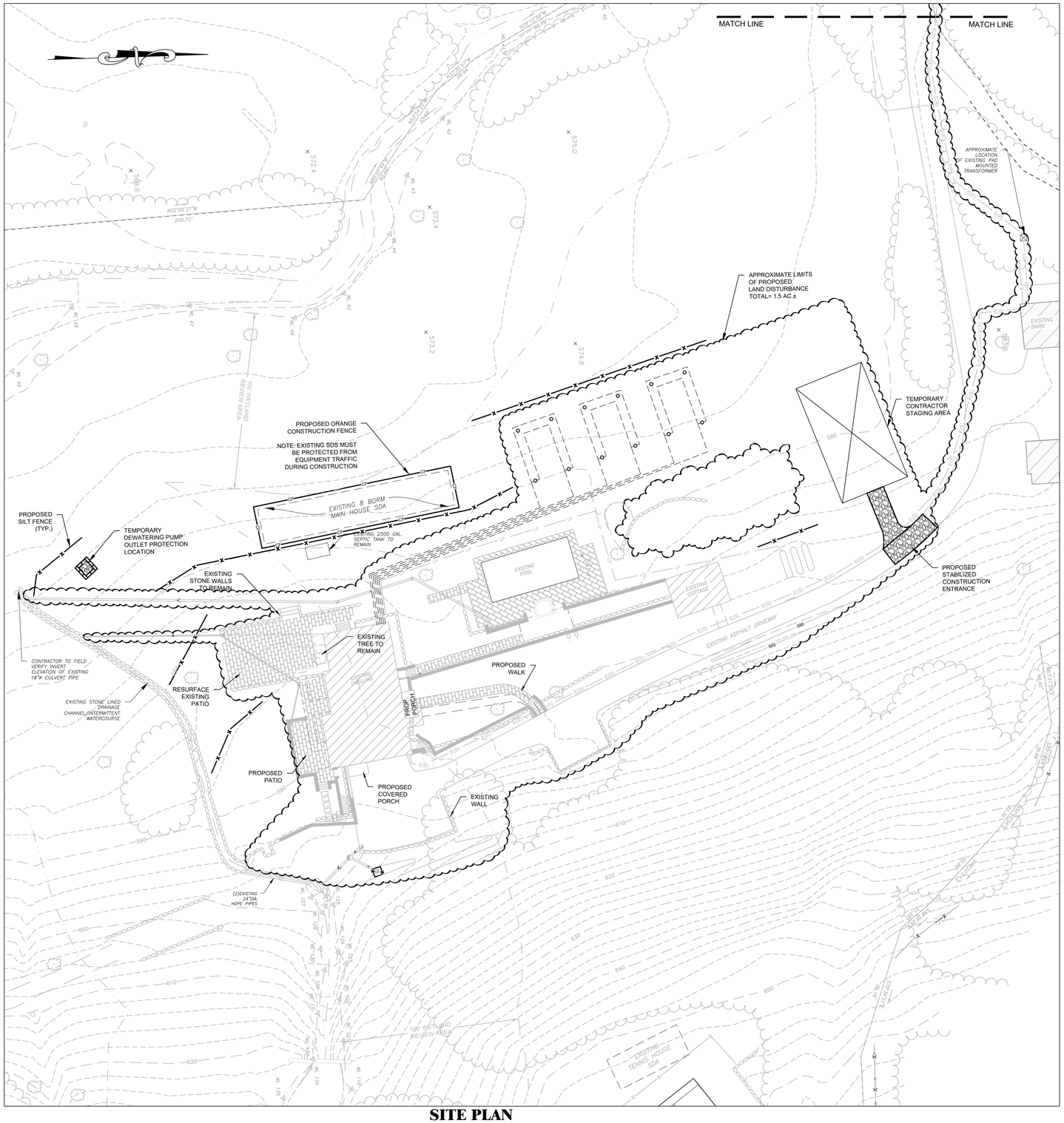
REVISIONS						
3-08-21	REVISIONS	MG/DK				
4-12-21	REVISIONS	MG/DK				
DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

SITE PLAN

BARATTA
236 NETTLETON HOLLOW ROAD
TOWN OF WASHINGTON, CT 06793

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

DATE:	02-04-20
SCALE:	1" = 20'
FILE:	10-II
DSGN / CHK:	MG/TA
DRN. BY:	DK
SHT NO.	1 OF 4
DWG NO.	**SP-1**



SITE PLAN

GRAPHIC SCALE

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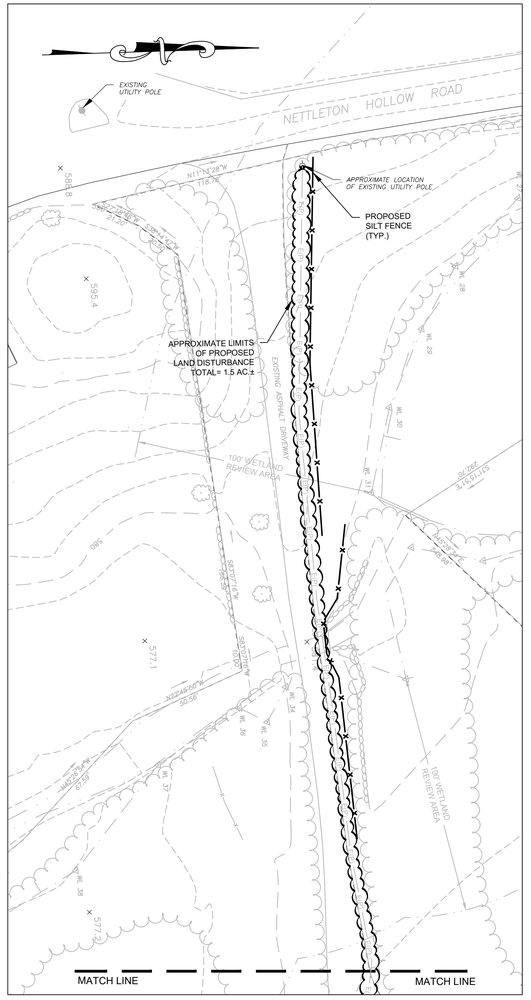
(IN FEET)
1 inch = 30 ft.



SITE PLAN

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

EROSION CONTROL NOTES:

ALL CONSTRUCTION ACTIVITIES INVOLVING THE REMOVAL OR DEPOSITION OF SOILS ARE TO BE PROVIDED WITH APPROPRIATE PROTECTIVE MEASURES TO INHIBIT EROSION AND TO CONTAIN SEDIMENT DEPOSITION WITHIN THE AREA UNDER DEVELOPMENT.

THE FOLLOWING SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROLS ARE FROM THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (REVISED 2002).

FILTER FENCE (SILT FENCE)

1. **MATERIALS**

(A) **SYNTHETIC FILTER FABRIC**
SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE FILAMENTS AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS

PHYSICAL PROPERTY	REQUIREMENTS
FILTERING EFFICIENCY	75%
TENSILE STRENGTH AT 20% (MAX.) ELONGATION	EXTRA STRENGTH- 100 LBS/LIN IN. (MIN.)
FLOW RATE	0.2 GAL/SQ FT./MIN. (MIN.)

(B) SYNTHETIC FILTER FABRIC REQUIREMENTS
FABRIC SHALL BE 10 OUNCE PER SQUARE YARD MIN.

POST FOR FILTER FENCE SHALL BE EITHER 2 x 2 OR 2 x 3 INCH STUDS OR 0.5 POUNDS (MINIMUM) PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 4 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

2. INSTALLATION REQUIREMENTS

(A) THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES (HIGHER BARRIERS MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURES.)

(B) WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.

(C) POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES)

(D) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UP SLOPE FROM THE BARRIER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

(F) THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE BURIED PORTION OF THE FILTER FENCE.

3. MAINTENANCE

(A) FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL IN EXCESS OF 0.5 INCHES. REPAIRS SHALL BE MADE AS NECESSARY. WHEN SILT FENCE IS USED FOR DEWATERING OPERATIONS INSPECT FREQUENTLY BEFORE, DURING AND AFTER PUMPING.

(C) COLLECTED SEDIMENT SHALL BE REMOVED WHEN THE HEIGHT REACHES APPROXIMATELY ONE-HALF OF THE BARRIER. DECOMPOSED FABRIC SHALL BE REPLACED IMMEDIATELY

4. SITE STABILIZATION

(A) ALL STOCKPILED TOPSOIL STRIPPED FROM THE AREA BEING DEVELOPED WHICH IS NOT PLANNED TO BE USED FOR MORE THAN 30 DAYS SHALL BE SEEDED IMMEDIATELY IN ACCORDANCE WITH TEMPORARY SEEDING REQUIREMENTS SPECIFIED IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

(B) ALL CUT/FILL SLOPES SHALL BE IMMEDIATELY LAID BACK AND STABILIZED IN ACCORDANCE WITH STATE TEMPORARY/PERMANENT SEEDING REQUIREMENTS. SLOPES IN EXCESS OF 3H:1V SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS AS NEEDED.

CONSTRUCTION SEQUENCE:

1. INSTALL ALL SILT FENCING AS SHOWN HEREON. SILT FENCE SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION. NO ENCROACHMENT BEYOND THESE LIMITS BY WORKERS OR MACHINERY SHALL BE PERMITTED.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE IN LOCATION SHOWN HEREON.
3. NOTIFY THE TOWN OF WASHINGTON WETLANDS COMMISSION OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF WORK AND SUBMIT "START CARD" TO THE COMMISSION OFFICE. WORK MAY BEGIN AFTER WETLAND ENFORCEMENT OFFICIAL INSPECTION AND APPROVAL.
4. BEGIN CONSTRUCTION OF DWELLING ADDITIONS, SITE CLEARING AND GRUBBING WITHIN THE LIMITS OF DISTURBANCE AS SHOWN HEREON. STRIP AND STOCKPILE TOPSOIL IN THE LOCATION PROVIDED .
5. INSTALL ALL PROPOSED DRAINAGE STRUCTURES AND COMPLETE NEW UTILITY CONNECTIONS.
6. ESTABLISH FINAL GRADES, SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL"
.
7. MAINTAIN ALL EROSION CONTROLS THROUGH THE DURATION OF CONSTRUCTION. EROSION CONTROLS ARE TO BE REMOVED AT THE DIRECTION OF THE TOWN CODE ENFORCEMENT OFFICER UPON UPON FINAL SITE STABILIZATION.

REVISIONS						
3-08-21	REVISIONS	MG/DK				
4-12-21	REVISIONS	MG/DK				
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EROSION CONTROL PLAN

BARATTA
236 NETTLETON HOLLOW ROAD
TOWN OF WASHINGTON, CT 06793

BIBBO ASSOCIATES, LLP
293 ROUTE 100 SUITE 203
SOMERS, NEW YORK 10589
TEL. 914 277 5805

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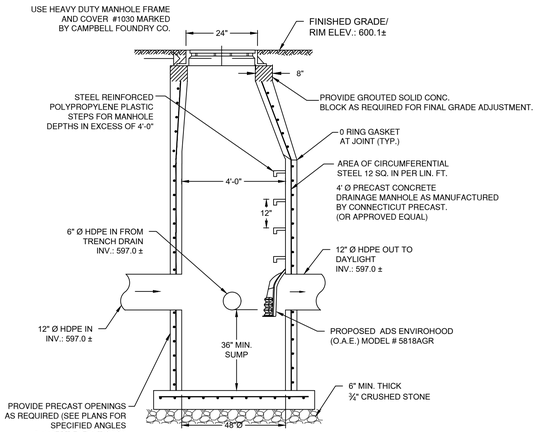
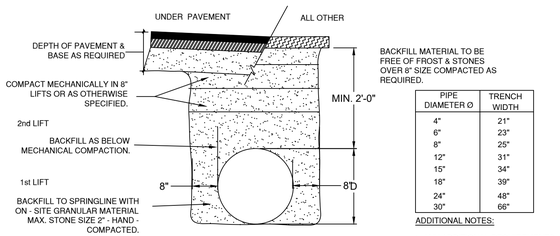


DRAINAGE MANHOLE DETAIL

N.T.S.

(H20 DESIGN LOADING REQUIRED)



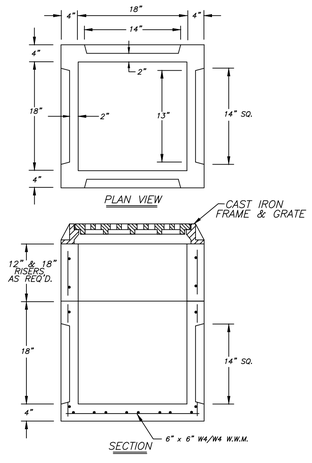
PIPE DIAMETER Ø	TRENCH WIDTH
4"	21"
6"	23"
8"	25"
12"	31"
15"	34"
18"	39"
24"	48"
30"	66"

ADDITIONAL NOTES:

1. ANY ADDITIONAL REQUIREMENTS AND SPECIFICATIONS SET FORTH BY THE PIPE MANUFACTURER MUST BE FOLLOWED FOR BACKFILLING
2. BACK FILL MATERIAL TO BE FREE OF FROST & STONES OVER 8" IN SIZE & COMPACTED AS REQUIRED

DRAINAGE PIPE INSTALLATION

N.T.S.

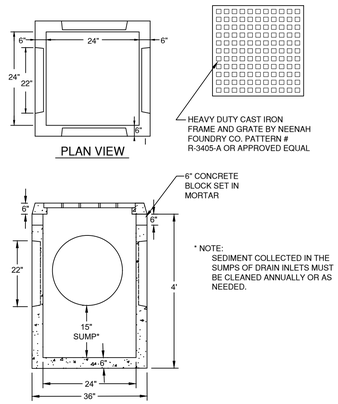


18" X 18" YARD DRAIN DETAIL

N.T.S.

(STRUCTURE TO BE DESIGNED FOR H20 LOADING)
P/C STRUCTURE BY CONNECTICUT
PRECAST CORP. OR APPROVED EQUAL

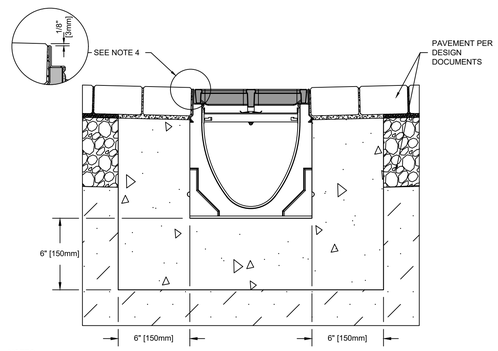
*CONCRETE : 4,000 PSI @ 28 DAYS
*REINFORCING : AS PER ASTM A-185
6" x 6" W4/W4 W.W.M.



2' X 2' DRAIN INLET DETAIL

N.T.S.

(STRUCTURE TO BE DESIGNED FOR H20 LOADING)
P/C STRUCTURE BY CONNECTICUT
PRECAST CORP. OR APPROVED EQUAL



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL *AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

KS200 KLASSIKDRAIN

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE KS200 CHANNEL SYSTEM WITH STAINLESS STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN STAINLESS STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

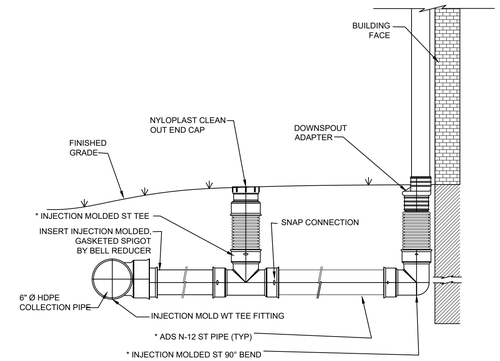
THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'QUICKLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

TYPICAL TRENCH DRAIN DETAIL - ACO - KS200 KLASSIKDRAIN

N.T.S.

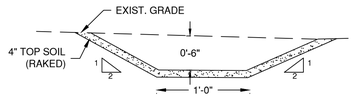
(OR APPROVED EQUAL)



ROOF LEADER CONNECTION DETAIL

N.T.S.

(OR APPROVED EQUAL)

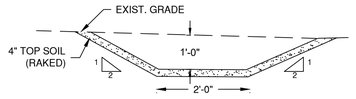


SEED MIXTURE	RATE / 1000 SF
BIRDSFOOT TREFOIL	.2lb
TALL FESCUE	.45 lb
PERRENNIAL RYEGRASS	.1 lb

MULCH: HAY OR STRAW 2 BALES

GRASS SWALE #1

N.T.S.

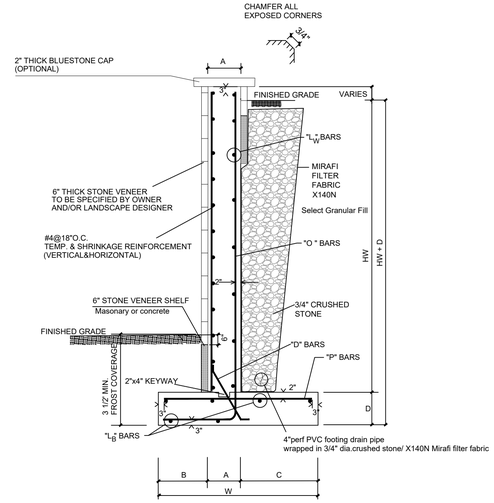


SEED MIXTURE	RATE / 1000 SF
BIRDSFOOT TREFOIL	.2lb
TALL FESCUE	.45 lb
PERRENNIAL RYEGRASS	.1 lb

MULCH: HAY OR STRAW 2 BALES

GRASS SWALE #2

N.T.S.



TYPICAL - REINFORCED CONCRETE RETAINING WALL DETAIL

NTS

RETAINING WALL SCHEDULE										
HW	A	B	C	W	"O" BARS	"D" BARS	"LW" BARS	"LB" BARS	"P " BARS	"D " BASE DEPTH
0' to 10'	12"	15"	3'-5"	5'-8"	#5@12"o.c.	#4@12"	6-#5	#5@12"o.c.	#5@12"o.c.	12"

NOTES:

1. THE CONTRACTOR SHALL VERIFY THE EXISTING SOIL, TOPOGRAPHIC CONDITIONS, SUBSEQUENT RETAINING WALL HEIGHTS AND SOIL CONDITIONS PRIOR TO STARTING THE WORK. ANY INCONSISTENCIES SHALL BE REPORTED TO THE DESIGN ENGINEER TO DETERMINE IF FIELD CHANGES ARE REQUIRED.
2. REINFORCEMENT SHALL BE ASTM GRADE 60, DEFORMED BILLET-STEEL REBAR FOR CONCRETE REINFORCEMENT COMPLIANCE WITH ASTM A615.
3. ALL POURED IN PLACE CONCRETE SHALL HAVE A 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
4. WHERE THE RETAINING WALL SHALL BE CONSTRUCTED ON A SLOPE, SUFFICIENT LEVEL SHELVING SHALL BE PROVIDED FOR FOOTING CONSTRUCTION. BOTTOM OF FOOTING SHALL BE CONSTRUCTED AS SHOWN ON THE RETAINING WALL CROSS SECTION.
5. BACKFILL MATERIAL SHALL BE GRANULAR SOILS FREE OF LARGE STONES, ORGANIC MATERIAL AND HIGH PERCENTAGES OF SILT / CLAY.
6. RETAINING WALL DESIGN IS BASED ON A 2.0 TON/SF SOIL BEARING CAPACITY. THE CONTRACTOR SHALL FIELD VERIFY SOIL CONDITIONS AND BEARING CAPACITIES OF IN-SITU SOIL. IF SOIL TESTING REVEALS INADEQUATE SOIL BEARING CAPACITIES, THE DESIGN ENGINEER SHALL BE NOTIFIED TO CONFIRM WALL DESIGN PARAMETERS PRIOR TO CONSTRUCTION.
7. THE RETAINING WALL DESIGN IS BASED ON A "B" CLASS "GRANULAR SOILS, MIX GRAIN SIZES" BACKFILL SOIL CONDITION. ANY ALTERATION FROM THESE SOILS, SUCH AS HIGH GROUNDWATER, HIGH PERCENTAGES OF FINES, SILTS AND CLAYS WILL CONSTITUTE DESIGN CHANGES.
8. ALL REBAR LAP SPLICES SHALL BE A MINIMUM OF 32" IN LENGTH.
9. THE RETAINING WALL DETAIL PROVIDED IS FOR APPROVAL PURPOSES ONLY. PROJECT STRUCTURAL ENGINEER SHALL CONFIRM DESIGN REQUIREMENTS AND SPECIFICATIONS IN FIELD PRIOR TO CONSTRUCTION.

REVISIONS							
	3-08-21	REVISIONS	MG/DK				
	4-12-21	REVISIONS	MG/DK				
	DATE:	DESCRIPTION	BY/CK	DATE:	DESCRIPTION		BY/CK

DETAILS

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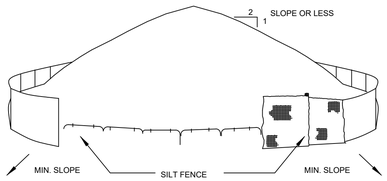
DATE:	02-04-20
SCALE:	1" = 20'
FILE:	10-II
DSGN / CHK:	MG/TA
DRN. BY:	DK
SHT NO.	3 OF 4
DWG NO.	**D-1**



INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
2. MAXIMUM SLOPE OF STOCKPILING SHALL BE 1:2
3. ALL STOCKPILED TOPSOIL NOT PLANNED TO BE USED FOR MORE THAN 30 DAYS SHALL BE IMMEDIATELY SEEDED AND MULCHED

SOIL STOCKPILING DETAIL

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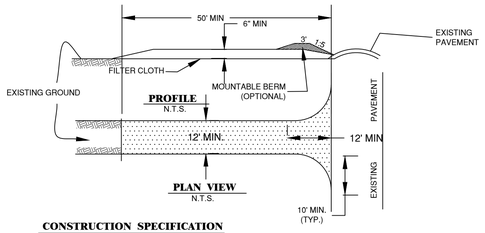

CONSTRUCTION SPECIFICATION

1 STONE SIZE- USE 2" STONE, OR RECYCLED CONCRETE EQUIVALENT.

2 50' MINIMUM LENGTH REQUIRED.

3 THICKNESS- NOT LESS THAN SIX (6) INCHES.

4 WIDTH- TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5 FILTER CLOTH- WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6 SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRACES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7 MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

8 WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE & WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9 PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

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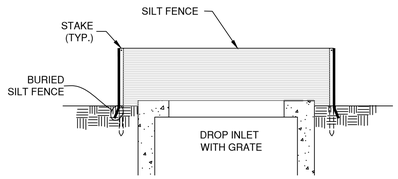
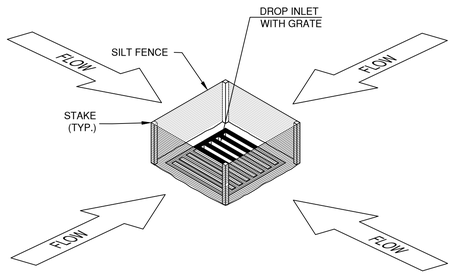


CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.



DROP INLET PROTECTION AT CATCH BASIN

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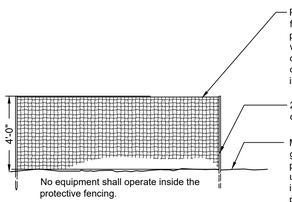

CONSTRUCTION FENCE DETAIL

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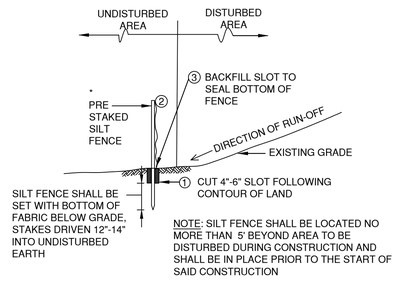
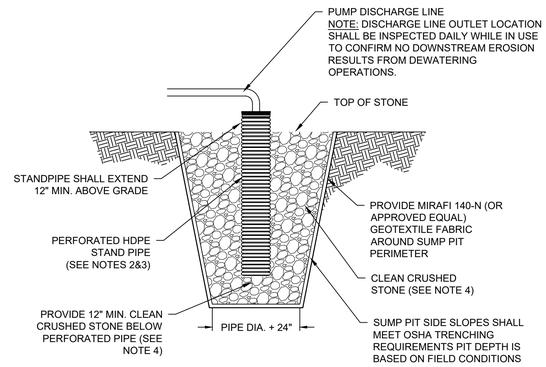


NOTE: SILT FENCE SHALL BE LOCATED NO MORE THAN 5' BEYOND AREA TO BE DISTURBED DURING CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO THE START OF SAID CONSTRUCTION

TYPICAL SILT FENCE INSTALLATION

N. T. S.

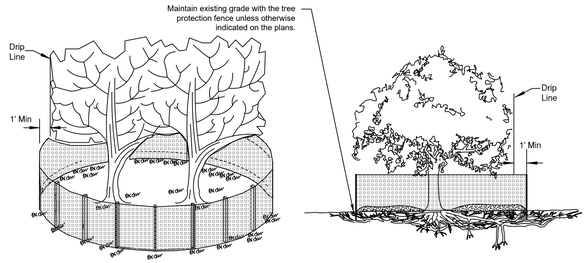


TYPICAL TEMPORARY DEWATERING SUMP PIT DETAIL

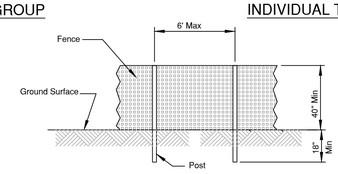
N. T. S.

NOTES:

1. OVERALL SUMP PIT DIMENSIONS SHALL BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP SIZE.
2. THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH PUMP SIZE.
3. PERFORATIONS ON STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS. PERFORATION SIZE SHALL NOT EXCEED ¼" IN DIAMETER.
4. CRUSHED STONE SHALL BE NO SMALLER THAN CT DOT #67 IN SIZE NOR LARGER THAN CT DOT #3 IN SIZE. CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STANDPIPE.
5. TYPICAL SUMP PIT DETAIL OBTAINED FROM THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.



TREE GROUP INDIVIDUAL TREE



POST AND FENCE DETAIL

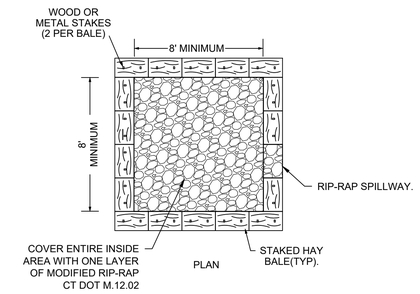
EXISTING TREE PROTECTION

N.T.S.

TREE PROTECTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY.

NOTES:

1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. FENCE POSTS SHALL BE EITHER STANDARD STEEL OR 2" X 6' WOOD POSTS OR APPROVED EQUAL.
3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR APPROVED EQUAL.
4. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
5. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.



NOTES:

1. PUMP OUTLET PROTECTION SHALL BE INSPECTED FREQUENTLY DURING DEWATERING OPERATIONS TO ENSURE NO DOWNSTREAM EROSION IS OCCURING.
2. MATERIALS USED TO CONSTRUCT TEMPORARY PUMP OUTLET PROTECTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED.
3. SILT FENCE SHALL BE INSTALLED DOWN GRADIENT OF THE PUMP OUTLET PROTECTION ON THE LOCATIONS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.

TEMPORARY DEWATERING PUMP OUTLET PROTECTION DETAIL

N.T.S.

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EROSION CONTROL DETAILS

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