

TABLE OF LAND USE/BULK REGULATIONS				
ZONING DATA:	SECTION: 154.60	BLOCK: 1	LOT: 21	ZONE DISTRICT: R-10
LOT AREA	10,000 SF MIN.	22,998.6 SF	INFORMATION FROM PROJECT SURVEY	
FRONTAGE	100' MIN.	100 FEET	INFORMATION FROM PROJECT SURVEY	
LOT WIDTH	100' MIN.	100 FEET	INFORMATION FROM PROJECT SURVEY	
FRONT YARD SETBACK	25'	25.25'	MEASURED ON PLAN	
SIDE YARD	LESSER SIDE 10' MIN. 25' COMBINED	LESSER SIDE 13.92' 25' COMBINED	MEASURED ON PLAN	
REAR YARD SETBACK	25' MIN.	130' (TO POOL DECK)	MEASURED ON PLAN	
BUILDING HEIGHT	35' MAX. 2-1/2 STORIES	< 25 FEET	MEASURED ON PLAN	
BUILDING COVERAGE	35% MAX.	10.5%	MEASURED ON PLAN	

LEGEND

-  PROPERTY LINE
-  SETBACK LINE
-  EXISTING TREE
-  EXISTING TREE TO BE REMOVED
-  WETLAND LINE
-  WETLAND BUFFER LINE

CONSULTANTS:
PROJECT ARCHITECT:
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ISSUED:

Rev. as per comment from Village and consultants	12/29/2021
Rev. as per sheet C-102	05/27/2022
Re-submission to Planning Board	09/19/2022
Rev. as per HCZM and Town consulting Engineer comments	10/24/2022
Rev. as per HCZM and Town consulting Engineer comments	11/15/2022
Rev. as per HCZM and Town consulting Engineer comments	11/28/2022
Rev. as per HCZM and Town consulting Engineer comments	12/14/2022

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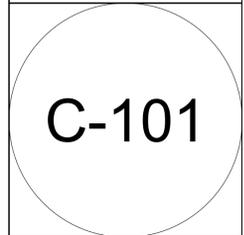


PROJECT NAME:
D'ARCANGELO PROPERTY
921 Soundview Drive
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:
ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC
P.O. Box 843 Ridgefield, CT 06877
Direct Tel: (475) 215-5343 Cell: (203) 710-0587

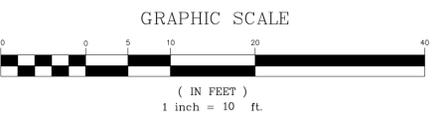
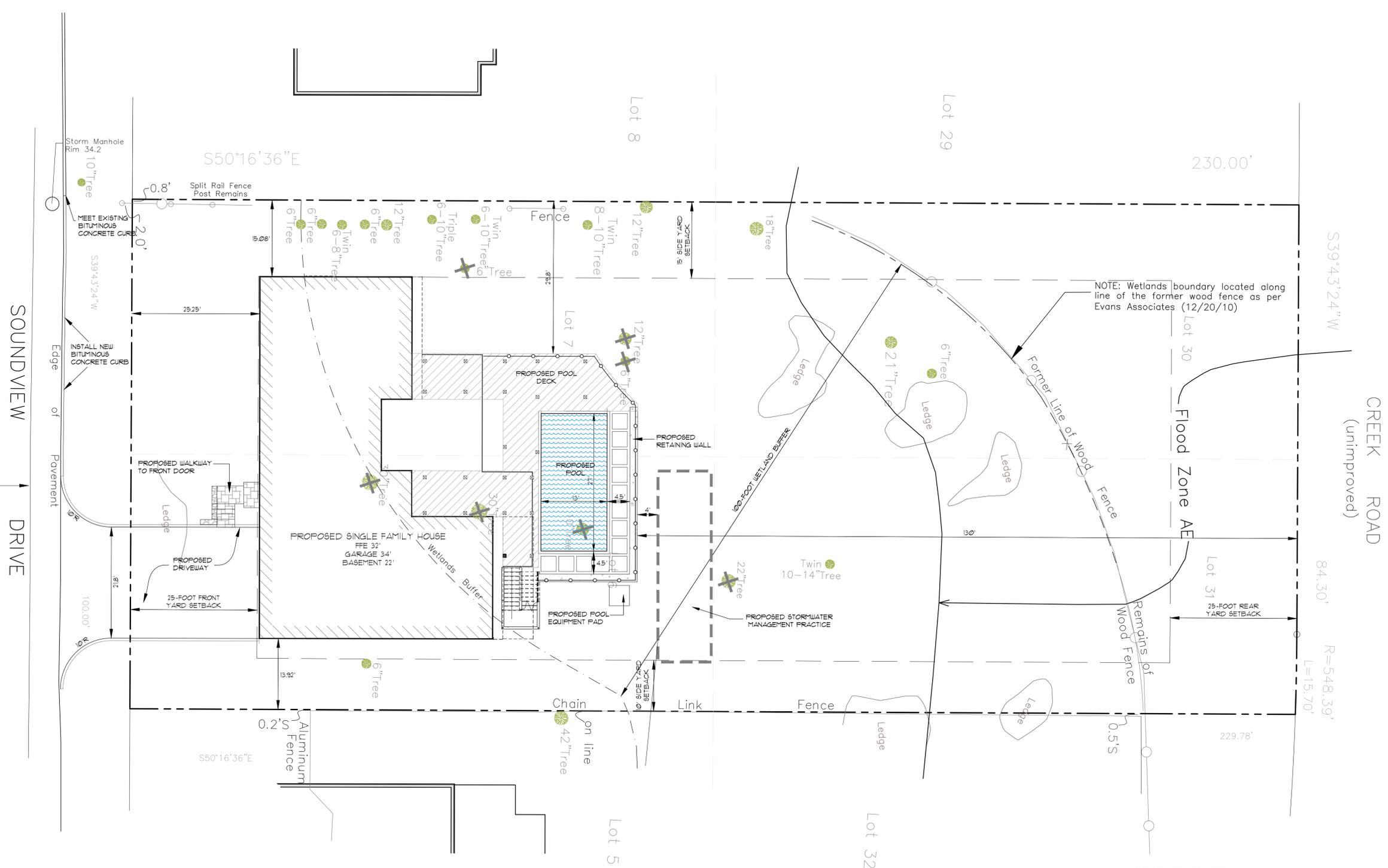
Drawing Title:
Site Layout Plan

Date: October 18, 2021
Dwn. by: alp
ID: 921 Soundview_Site_12-12-2022



Util Pole

Util Pole



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PLAN NOTES

1. The applicant shall provide an As-Built Plan of the stormwater management system (for all stormwater features including, but not limited to, locations of stormwater infrastructure, invert/rim elevations, pipe locations and sizes, final grading, etc.) certified by the Engineer of Record, prior to the issuance of the Certificate of Occupancy. The As-Built Plan shall also include the final maintenance schedule for the stormwater management features.

STORMWATER PRACTICE (CULTEC C-4HD CHAMBERS)

Chamber Field Designation	FIELD A	FIELD B	FIELD C	FIELD D	FIELD E	FIELD F	FIELD G	FIELD H
Existing Grade at Field Designation	17.60	17.50	17.50	17.30	17.20	17.00	16.80	16.70
Rock Elevation at Field	12.35	12.25	12.25	12.05	11.95	11.75	11.55	11.45
Invert of Stone below Chambers	16.10	16.00	16.00	15.75	15.75	15.50	15.25	15.25
Bottom of Chambers	16.60	16.50	16.50	16.25	16.25	16.00	15.75	15.75
Top of Chambers	17.31	17.21	17.21	16.96	16.96	16.71	16.46	16.46
Top of Stone	17.81	17.71	17.71	17.46	17.46	17.21	16.96	16.96
Finished Grade	18.56	18.46	18.46	18.21	18.21	17.96	17.71	17.71

Height of Stone below Chambers to Outlet (in feet)	1.15	1.25	1.25	1.50	1.50	1.75	2.00	2.00
Height of Stone below Chambers to Outlet (in inches)	13.80	15.00	15.00	18.00	18.00	21.00	24.00	24.00
Storage Volume in Chambers at Outlet (c.f.)	38	40	40	45	47.5	51.7	51.7	

Total Storage in Chambers to Outlet (cu feet) = 365.6
 Infiltration Volume (cu feet) = 206.2
TOTAL VOLUME CAPTURED AND TREATED (cu feet) = 571.8
 Compare to WQv = 490.5

STORM PIPE TABLE

STRUCTURE	Upper	Lower	Q - FLOW (CFS)		P I P E P A R A M E T E R S										Invert Upper	Invert Lower	Top/Rim Elev.
			Design q	Capacity Q	Manning's "n"	Size (In.)	Actual Vel ft/s	Velocity Full ft/s	Slope %	Length (ft)	Fall (ft)						
TD-1	KEY 5	7.79	0.08	5.75	0.012	8	5.2	16.5	19.33	3	0.58	32.08	31.50	33.75			
KEY 5	KEY 6	7.79	0.12	4.51	0.012	8	4.8	12.9	11.89	22	2.62	31.50	28.88	32.00			
KEY 6	CB-2	7.79	0.18	4.24	0.012	8	4.6	12.1	10.49	41	4.30	28.88	24.58	30.90			
CB-2	CB-1	7.79	0.34	5.12	0.012	8	6.6	14.7	15.32	31	4.75	24.58	19.83	26.50			
CB-1	PT-1	7.79	0.39	5.00	0.012	8	7.6	14.3	14.58	4	0.58	19.83	19.25	22.75			
PT-1	CB-L1	7.79	0.39	1.75	0.012	8	3.8	5.0	1.79	106	1.90	19.00	17.10	22.40			
CB-L1	Chambers	7.79	0.39	4.78	0.012	8	7.3	13.7	13.33	3	0.40	17.10	16.70	18.10			
RDL-1	PT-1	7.79	0.04	1.39	0.010	4	6.0	16.0	31.67	5	1.58	21.17	19.58	22.50			
RDL-2	CB-2	7.79	0.04	1.24	0.010	4	5.3	14.2	23.00	5	1.25	26.17	24.92	27.50			
RDL-3	KEY 6	7.79	0.06	0.59	0.010	4	3.6	6.7	5.67	5	0.28	29.17	28.86	30.50			
RDL-4	KEY 5	7.79	0.04	1.19	0.010	4	5.1	13.7	23.33	5	1.17	32.67	31.50	34.00			
RDL-5	PT-1	7.79	0.04	0.33	0.010	4	2.3	3.8	1.79	16	0.29	20.77	20.48	22.10			
RDL-6	KEY 1	7.79	0.02	0.35	0.010	4	1.8	4.0	2.01	53	1.07	22.67	21.60	24.00			
RDL-7	KEY 2	7.79	0.08	0.87	0.010	4	5.3	10.0	12.33	5	0.62	21.37	20.75	22.70			
RDL-8	KEY 3	7.79	0.04	0.75	0.010	4	3.9	8.6	9.17	4	0.37	21.37	21.00	22.70			
RDL-9	KEY 3	7.79	0.08	1.18	0.010	4	6.1	13.5	22.70	47	10.67	31.67	21.00	33.00			
KEY 1	KEY 2	7.79	0.02	3.04	0.012	8	1.4	8.7	5.41	16	0.85	21.60	20.75	22.80			
KEY 2	KEY 10	7.79	0.08	5.97	0.012	8	5.4	17.1	20.83	6	1.25	21.00	19.75	22.70			
KEY 3	KEY 10	7.79	0.08	2.68	0.012	8	2.9	7.7	4.20	24	1.00	20.75	19.75	23.00			
KEY 10	CB-L1	7.79	0.18	3.91	0.012	8	4.2	11.2	8.92	30	2.65	19.75	17.10	22.00			

LEGEND

- PROPERTY LINE
- EXISTING TOPOGRAPHY
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED CATCH BASIN
- PROPOSED STORM PIPE
- PROPOSED STORM KEY NODE
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- WETLAND LINE
- WETLAND BUFFER LINE

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 Rev. as per results of deep hole and percolation testing 05/27/2022
 Re-submission to Planning Board 09/19/2022
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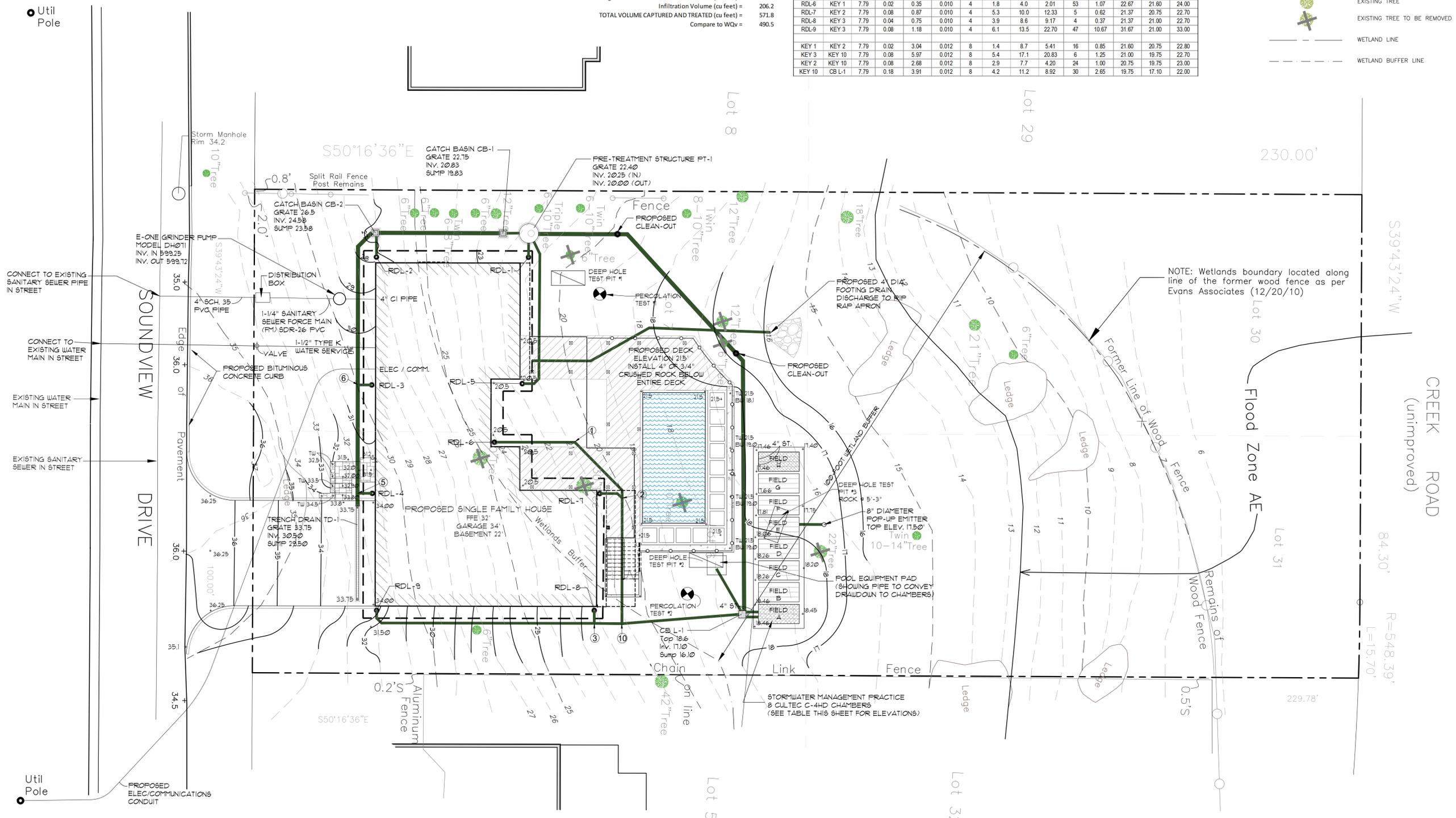
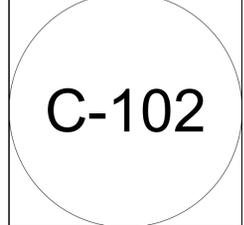


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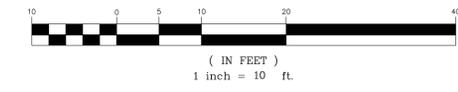
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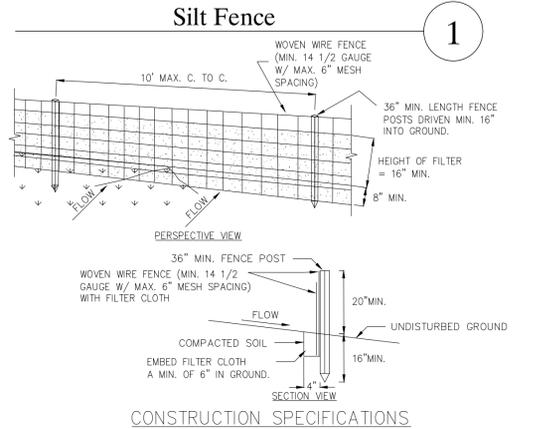
Drawing Title:
Grading and Utilities Plan

Date: October 18, 2021
 Dwn. by: alp
 ID: 921 Soundview_Site_12-12-2022.1



GRAPHIC SCALE

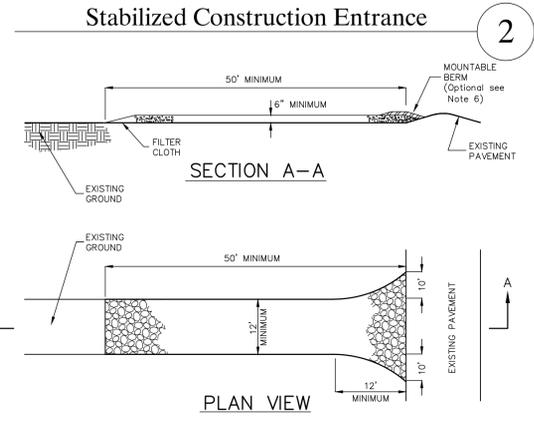




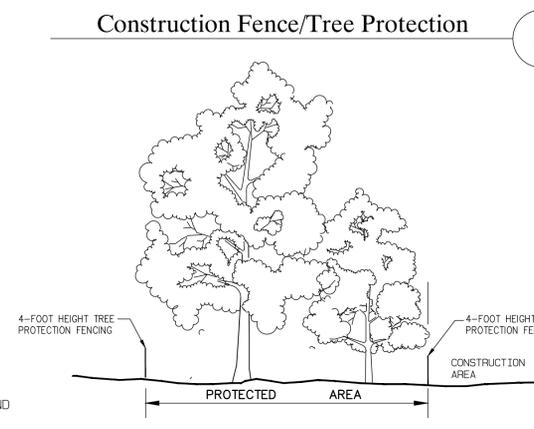
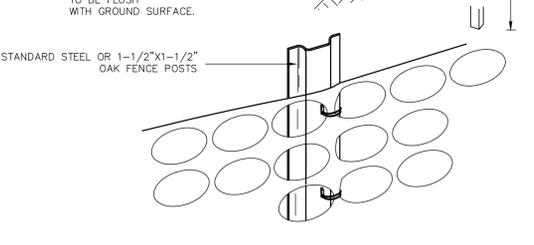
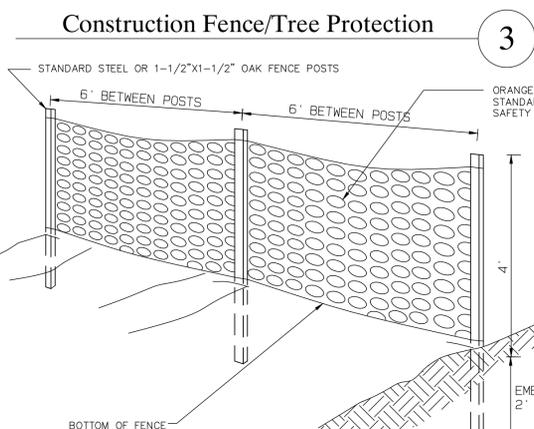
- CONSTRUCTION SPECIFICATIONS**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HARDWOOD.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
 - PREFABRICATED UNITS SHALL BE GEOTAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

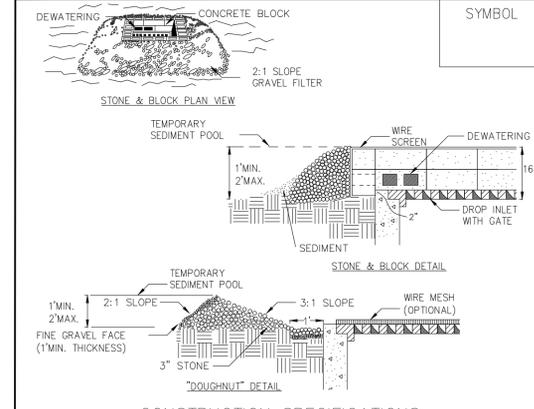


- NOTES:**
- STONE SIZE - USE 3/4" - 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
 - FILTER CLOTH - TO BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAROUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DRIPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



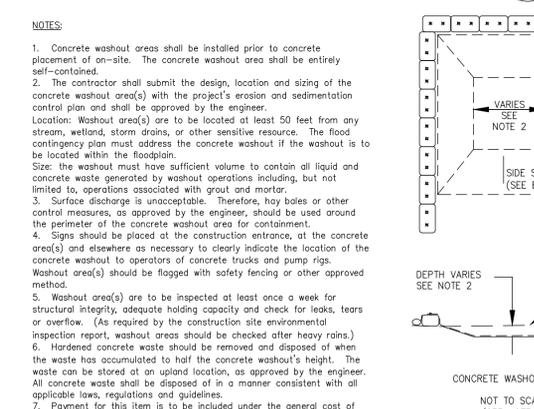
- INSTALLATION NOTES**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING (WHICH IS PREFERRED) OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 - SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

Stone and Block Drop Inlet Protection



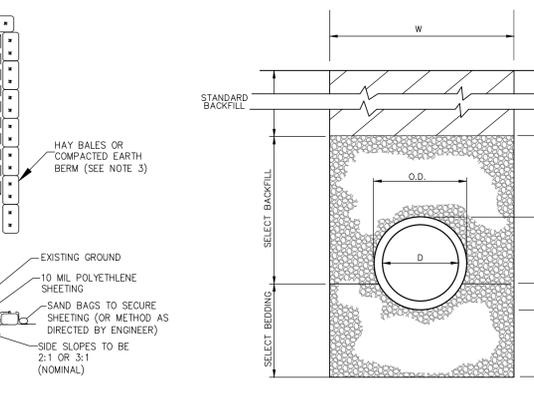
- CONSTRUCTION SPECIFICATIONS**
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
 - HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
 - USE CLEAN STONE OR GRAVEL 1/2"-3/4" INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
 - FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
- MAXIMUM DRAINAGE AREA 1 ACRE
- ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE
- STONE & BLOCK DROP INLET PROTECTION

Concrete Washout Area



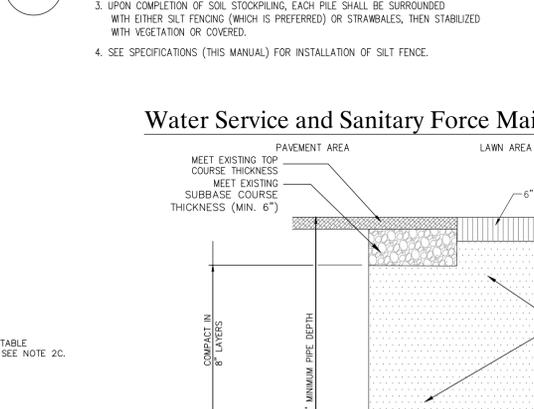
- NOTES:**
- Concrete washout areas shall be installed prior to concrete placement of on-site. The concrete washout area shall be entirely self-contained.
 - The contractor shall submit the design, location and sizing of the concrete washout area(s) with the project's erosion and sedimentation control plan and shall be approved by the engineer.
 - Location: Washout area(s) are to be located at least 50 feet from any stream, wetland, storm drains, or other sensitive resource. The flood contingency plan must address the concrete washout if the washout is to be located within the floodplain.
 - Size: The washout must have sufficient volume to contain all liquid and concrete waste generated by washout operations including, but not limited to, operations associated with grout and mortar.
 - Surface discharge is unacceptable. Therefore, hay bales or other control measures, as approved by the engineer, should be used around the perimeter of the concrete washout area for containment.
 - Washout area(s) should be flogged with safety fencing or other approved method.
 - Washout area(s) are to be inspected at least once a week for structural integrity, adequate holding capacity and check for leaks, tears or overflow. (As required by the construction site environmental inspection report, washout areas should be checked after heavy rains.)
 - Hardened concrete waste should be removed and disposed of when the waste has accumulated to half the concrete washout's height. The waste can be stored at an upland location, as approved by the engineer.
 - All concrete waste shall be disposed of in a manner consistent with all applicable laws, regulations and guidelines.
 - Payment for this item is to be included under the general cost of the work for the project, including site restoration.

Water Service and Sanitary Force Main Pipe Trench



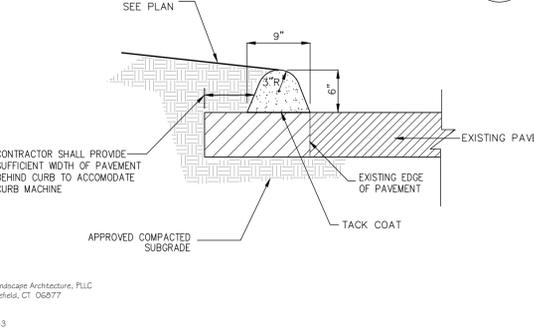
- NOTES:**
- FOR TYPE II TRENCH, MATERIAL FOR SELECT BEDDING AND SELECT BACKFILL SHALL BE:
 - EITHER SAND OR CRUSHED STONE IF NO WATER IS ENCOUNTERED IN TRENCH.
 - CRUSHED STONE IF WATER IS ENCOUNTERED IN TRENCH.
 - TYPE II TRENCH SHALL BE USED IN ALL OF THE FOLLOWING CASES:
 - FOR ALL PVC PIPE AND CONDUIT INSTALLATION.
 - WHEN ROCK OR HARDPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
 - WHEN UNSUITABLE MATERIAL IS ENCOUNTERED IN BOTTOM OF TRENCH. IN SUCH CASE DEPTH OF UNDERCUTTING SHALL BE AS DIRECTED BY THE ENGINEER WITH 6" MINIMUM.
 - FOR ALL TRENCH EXCAVATION IN FILL AREAS, ALL EMBANKMENTS SHALL BE CONSTRUCTED TO A MINIMUM OF 2 FEET ABOVE THE OUTSIDE TOP (AT THE BELL) OF THE PIPE PRIOR TO BEGINNING ANY TRENCH EXCAVATION.
 - SELECT BEDDING - SHALL CONSIST OF A BED OF PROPERLY COMPACTED GRANULAR BEDDING MATERIAL (SAND OR CRUSHED STONE AS SPECIFIED) HAVING A COMPACTED THICKNESS OF AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE OR CONDUIT AND EXTENDING AROUND THE PIPE OR CONDUIT FOR AT LEAST 30% OF ITS DIAMETER OR RISE. THE LAYER OF BEDDING MATERIAL SHALL BE SHAPED TO FIT THE PIPE OR CONDUIT FOR AT LEAST 15% OF THE OUTSIDE DIAMETER OR RISE OF THE PIPE OR CONDUIT AND SHALL HAVE RECESSES SHAPED TO RECEIVE THE BELL OF BELL AND SPOT PIPE. SAND BEDDING SHALL BE CLEAN, WELL-GRADED SAND CONSISTING OF HARD, DURABLE PARTICLES FREE FROM LUMPS OF CLAY, LOAM AND ALL OTHER DELETERIOUS SUBSTANCES. CRUSHED STONE BEDDING SHALL BE WELL-GRADED CRUSHED STONE CONFORMING TO ASTM DESIGNATION C-33, SIZE NO. 67.
 - STANDARD BACKFILL - SHALL CONSIST OF ON-SITE MATERIAL (EARTH) APPROVED BY THE OWNER'S FIELD REPRESENTATIVE AND/OR SOILS ENGINEER. SHOULD THERE BE A DEFICIENCY OF PROPER ON-SITE MATERIAL FOR BACKFILLING, THE CONTRACTOR SHALL FURNISH, PLACE AND COMPACT ADDITIONAL PROPER BACKFILL MATERIAL.
 - SELECT BACKFILL - SHALL CONSIST OF GRANULAR MATERIAL (SAND OR CRUSHED STONE AS SPECIFIED) AS APPROVED BY THE OWNER'S FIELD REPRESENTATIVE AND/OR SOILS ENGINEER. SAND SHALL CONSIST OF CLEAN, WELL-GRADED, HARD, DURABLE PARTICLES, FREE OF LUMPS OF CLAY, LOAM AND ALL OTHER DELETERIOUS SUBSTANCES. CRUSHED STONE SHALL CONSIST OF WELL-GRADED CRUSHED STONE CONFORMING TO ASTM DESIGNATION C-33, SIZE NO. 67.
 - BACKFILL FOR PIPE AND CONDUIT SHALL BE PLACED EVENLY AND CAREFULLY AROUND AND OVER THE PIPE OR CONDUIT IN SIX (6) INCH MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED UNTIL TWELVE (12) INCHES OF COVER EXISTS OVER THE PIPE OR CONDUIT. THE REMAINDER OF THE BACKFILL SHALL THEN BE PLACED AND COMPACTED IN MAXIMUM TWELVE (12) INCH LAYERS. EACH LAYER SHALL BE COMPACTED BY APPROVED MECHANICAL TAMPING MACHINES.

Sanitary Sewer Distribution Box

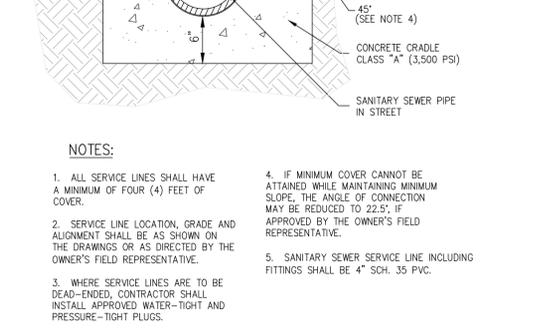


- NOTES:**
- ALL SERVICE LINES SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER.
 - SERVICE LINE LOCATION, GRADE AND ALIGNMENT SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.
 - WHERE SERVICE LINES ARE TO BE DEAD-ENDED, CONTRACTOR SHALL INSTALL APPROVED WATER-TIGHT AND PRESSURE-TIGHT PLUGS.
 - IF MINIMUM COVER CANNOT BE ATTAINED WHILE MAINTAINING MINIMUM SLOPE, THE ANGLE OF CONNECTION MAY BE REDUCED TO 22.5°, IF APPROVED BY THE OWNER'S FIELD REPRESENTATIVE.
 - SANITARY SEWER SERVICE LINE INCLUDING FITTINGS SHALL BE 4" SCH. 35 PVC.

Bituminous Concrete Curb



Connection to Existing Sanitary Sewer



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SEAL:

PROJECT NAME:
D'ARCANGELO PROPERTY
921 Soundview Drive
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:
ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC
P.O. Box 843 Ridgefield, CT 06877
Direct Tel: (475) 215-5343 Cell: (203) 710-0587

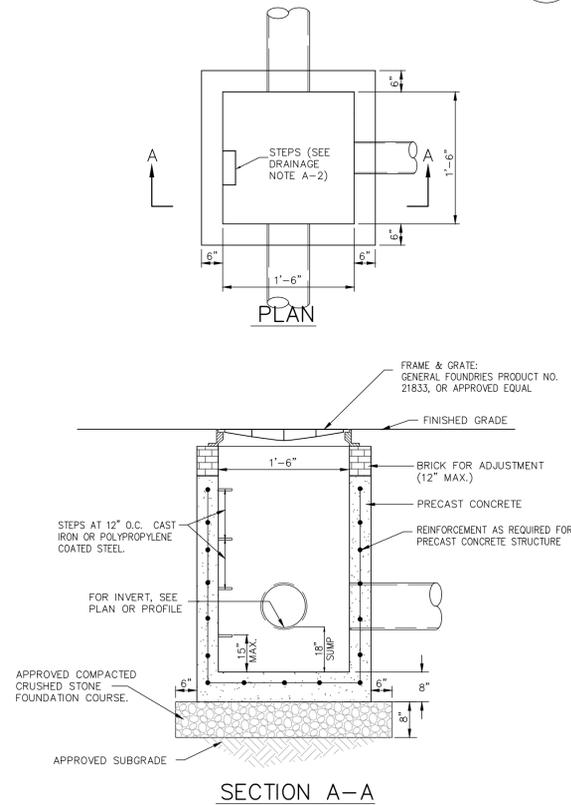
Drawing Title:
Construction Details

Date: October 18, 2021
Dwn. by: alp
ID: 921 Soundview_Site_12-12-2022

C-111

Catch Basin

1



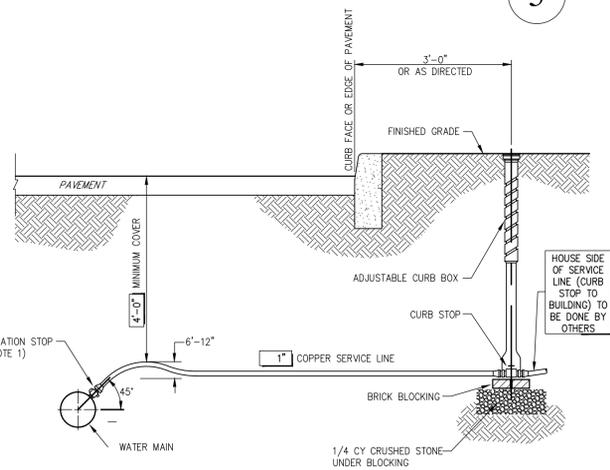
SECTION A-A

NOTES PERTAINING TO DRAIN INLETS, MANHOLES AND SUBSURFACE STORMWATER DETENTION FACILITIES

1. ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD. ALL SUBSURFACE STORMWATER DETENTION FACILITIES SHALL ALSO MEET AN H-20 LOADING.
2. STEPS WILL NOT BE REQUIRED IN INLETS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN INLETS FOUR (4) FEET OR GREATER IN DEPTH.
3. WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
4. FOR MASONRY STRUCTURES, THE FIRST COURSE OF MASONRY SHALL BE SET IN THE CONCRETE FOUNDATION BEFORE THE CONCRETE HAS SET. CONCRETE FOUNDATION SHALL BE CLASS "A" (3500 PSI) CONCRETE, TWELVE (12) INCHES THICK AND SHALL EXTEND SIX (6) INCHES BEYOND THE OUTSIDE FACE OF THE STRUCTURE.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
6. ALL NECESSARY PATCHING FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING CEMENT MORTAR GROUT, APPROVED EQUAL TO SIKKA-SET AS MANUFACTURED BY THE SIKKA CHEMICAL CORP.
7. FOUNDATIONS FOR PRECAST CONCRETE STRUCTURES SHALL BE SET ON A COMPACTED LAYER OF APPROVED POROUS MATERIAL HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.
8. ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
9. PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF FRAME & GRATE.
10. FOR MASONRY STRUCTURES GREATER THAN TWELVE (12) FEET IN DEPTH, THICKNESS OF MASONRY WALLS SHALL BE INCREASED TO TWELVE (12) INCHES.

Water Service Connection

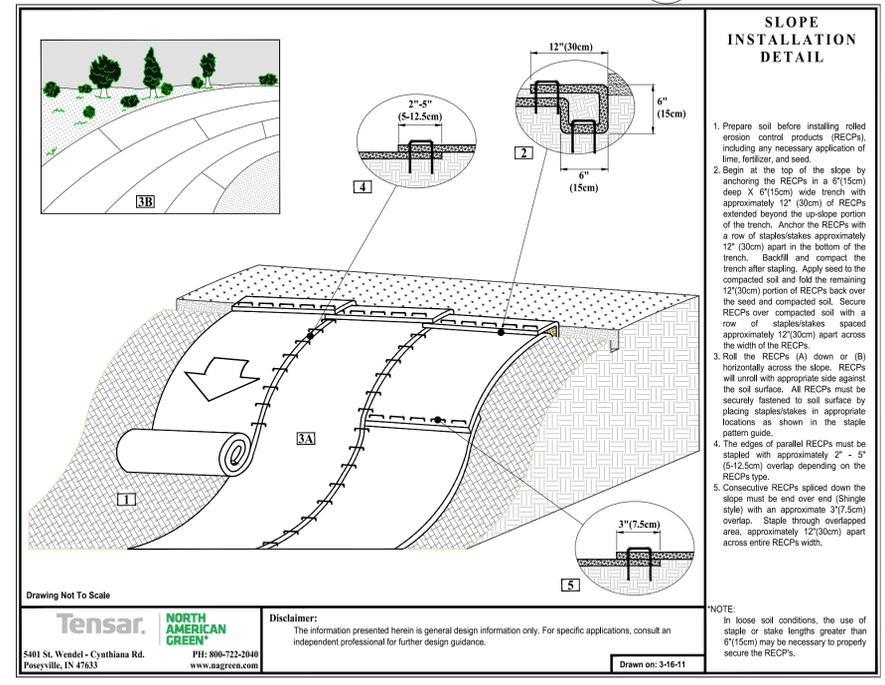
5



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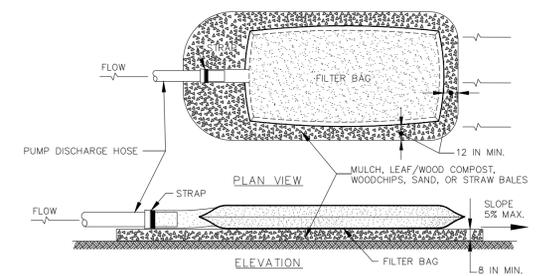
Erosion Control Mat (Geotextile Fabric)

2



Dewatering (Filter) Bag for Sediment

6



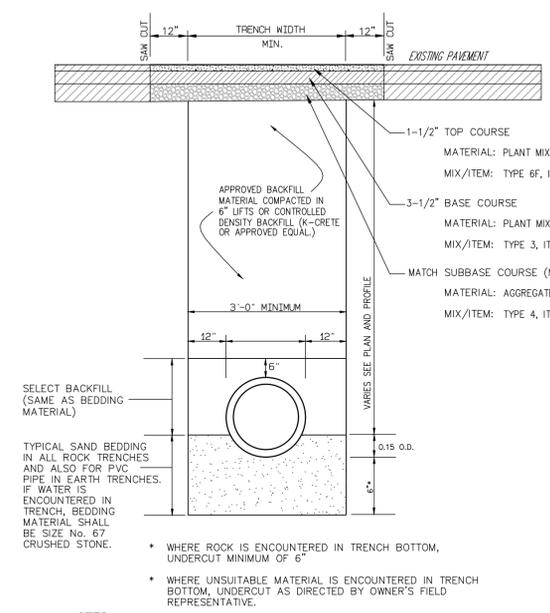
CONSTRUCTION SPECIFICATIONS

1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT ²	ASTM D-4491
PERMITTIVITY (SEC ⁻¹)	1.2 SEC ⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632
6. REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

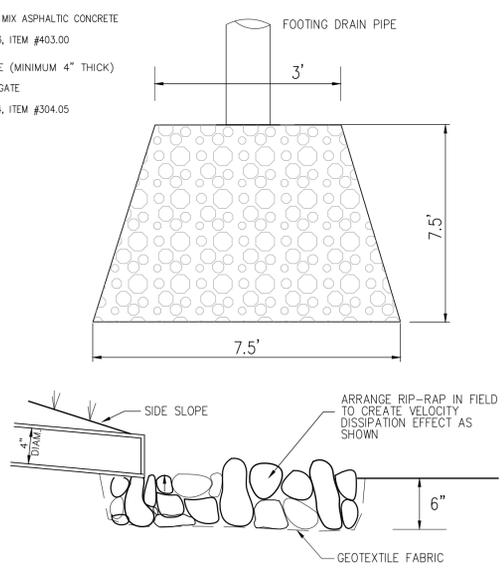
Pavement Restoration for Trench

3



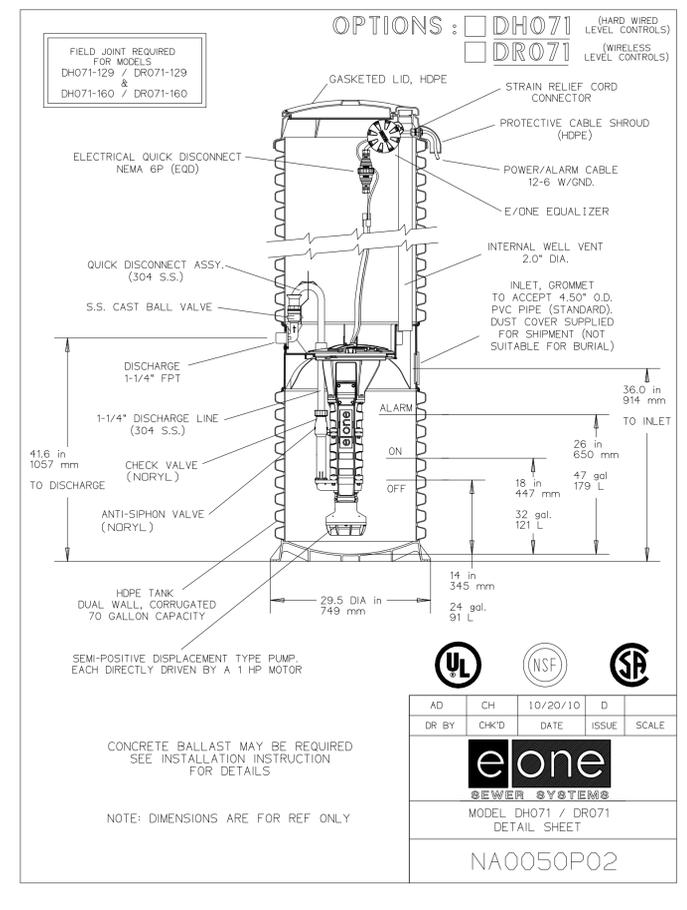
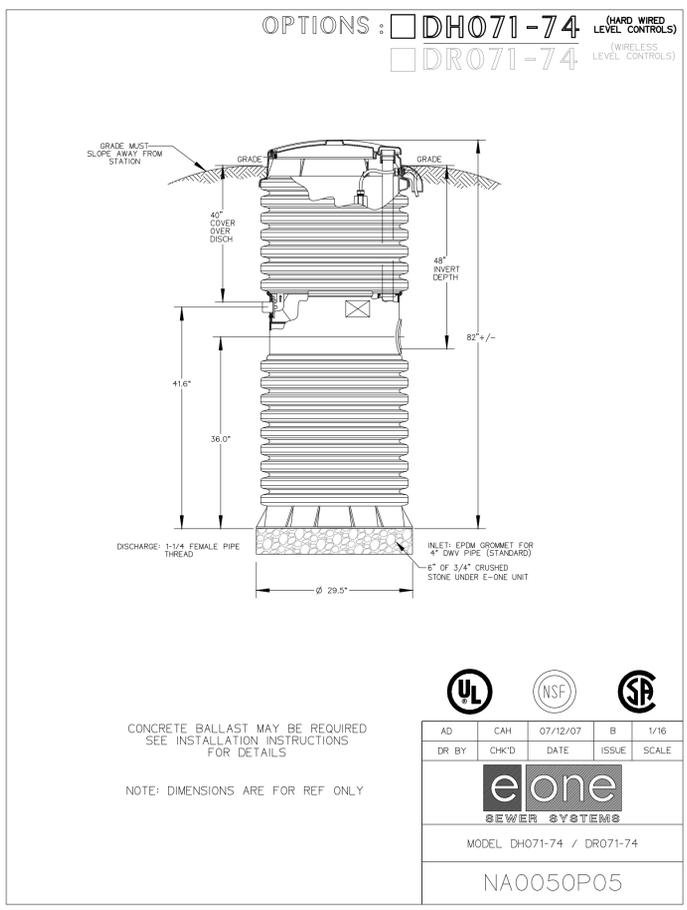
Rip Rap Apron

4



E-One Grinder Pump System

7



CONSULTANTS:
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ISSUED:
Rev. as per comment from Village and consultants 12/29/2021
Re-submission to Planning Board 09/19/2022
Rev. as per HCZM and Town consulting Engineer comments 10/24/2022
Rev. as per HCZM and Town consulting Engineer comments 11/15/2022
Re-submission to Planning Board 11/28/2022

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