

TABLE OF LAND USE/BULK REGULATIONS				
ZONING DATA:	SECTION: 154.60	BLOCK: 1	LOT: 21	ZONE DISTRICT: R-10
REQUIRED OR ALLOWED	PROPOSED OR EXISTING	REMARKS		
LOT AREA	10,000 SF MIN.	22,998.8 SF	INFORMATION FROM PROJECT SURVEY	
FRONTAGE	100' MIN.	100 FEET	INFORMATION FROM PROJECT SURVEY	
LOT WIDTH	100' MIN.	100 FEET	INFORMATION FROM PROJECT SURVEY	
LOT DEPTH	100' MIN.	230 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	37' MIN.	130' (TO POOL DECK)	MEASURED ON PLAN	
BUILDING HEIGHT	35' MAX. 2-1/2 STORIES	37' +/- (-35)		
BUILDING COVERAGE	35% MAX.	10.5%	MEASURED ON PLAN	
POOL COVERAGE IN REAR YARD	40% MAX. OF REAR YD.	2.5% OF REAR YARD	MEASURED ON PLAN	

**LEGEND**

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

CONSULTANTS:  
PROJECT ARCHITECT:  
Jaclyn Tyler, AIA  
Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY, 10591  
Tel: (914) 740-4774 | (914) 204-6404

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 Village consulting Engineer comments	10/24/2022
Rev. as per HCZM and Village consulting Engineer comments	11/15/2022
Rev. as per HCZM and Village consulting Engineer comments	11/28/2022
Rev. as per HCZM and Village consulting Engineer comments	12/14/2022
Rev. as per Planning Board and Village consulting Engineer	01/16/2023
Rev. as per Planning Board and Village consulting Engineer	03/08/2023

OWNERSHIP AND USE OF DOCUMENTS  
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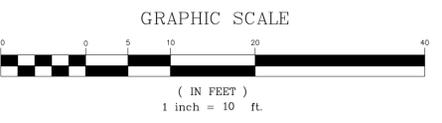
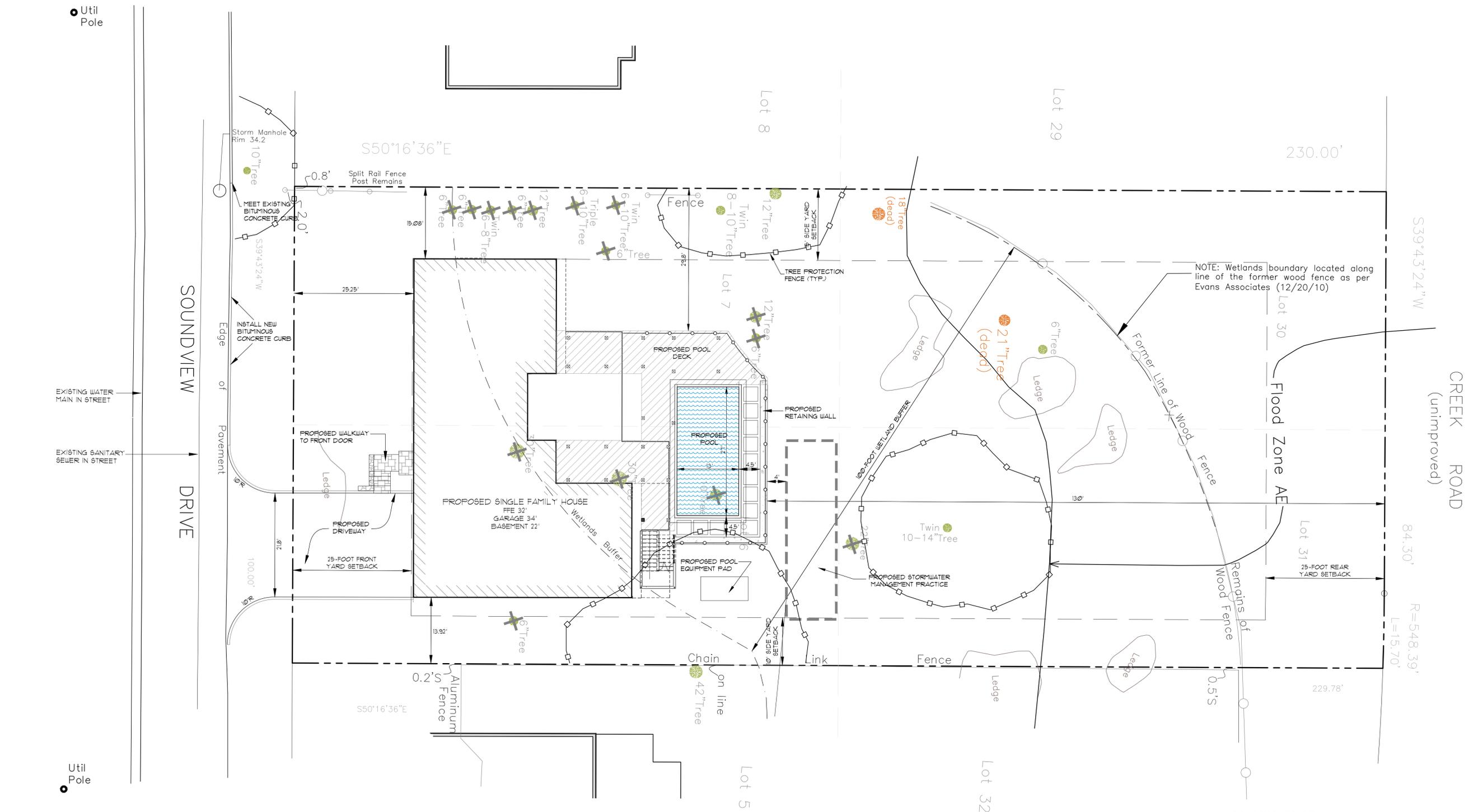
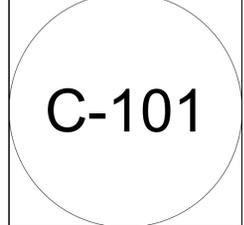


PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**  
P.O. Box 843, Ridgefield, CT 06877  
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Drawing Title:  
**Site Layout Plan**

Date: October 18, 2021  
Dwn. by: alp  
ID: 921 Soundview\_Site\_03-08-2023



Civil Engineer:  
Alan L. Pilon  
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142 Falls Road, Bethany, CT 06248  
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PLAN NOTES

- 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 Designation	12.35	12.25	12.25	12.05	11.95	11.75	11.55	11.45
<b>Invert of Stone below Chambers</b>	<b>16.10</b>	<b>16.00</b>	<b>16.00</b>	<b>15.75</b>	<b>15.75</b>	<b>15.50</b>	<b>15.25</b>	<b>15.25</b>
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	51.7

Total Storage in Chambers to Elevation of 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	Q-FLOW (CFS)	PIPE PARAMETERS											
		Design q	Capacity Q	Manning's "n"	Size (in)	Actual Vel f/s	Velocity Full f/s	Slope %	Length (ft)	Fall (ft)	Invert Upper	Invert Lower	Top/Rim Elev.
TD-1 KEY 5	7.79	0.08	5.75	0.012	8	5.2	16.5	19.33	3.0	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	22.0	2.62	31.50	28.88	32.00
KEY 6 CB A-4	7.79	0.18	3.24	0.012	8	4.6	12.1	10.49	41.0	4.30	28.88	24.58	30.90
CB A-4 CB A-3	7.79	0.38	5.12	0.012	8	6.6	14.7	15.32	31.0	4.75	24.58	19.83	26.50
CB A-3 CB A-2	7.79	0.49	3.13	0.012	8	6.1	9.0	5.72	10.2	0.58	19.83	19.25	22.75
CB A-2 KEY 2	7.79	0.49	1.64	0.012	8	4.0	4.7	1.57	54.0	0.85	19.25	18.40	20.60
KEY 2 KEY 3	7.79	0.49	2.93	0.012	8	5.7	8.4	5.00	2.0	0.10	18.40	18.30	20.00
KEY 3 CB A-1	7.79	0.57	1.91	0.012	8	4.5	5.5	2.13	25.8	0.55	18.30	17.75	20.00
CB A-1 PTF PT-1	7.79	0.57	3.13	0.012	8	6.4	9.0	5.71	3.5	0.20	17.75	17.55	21.10
PTF PT-1 CB L-1	7.79	0.57	1.71	0.012	8	4.2	4.9	1.70	17.8	0.30	17.50	17.00	20.00
CB L-1 Chambers	7.79	0.57	3.11	0.012	8	6.4	8.9	5.67	3.0	0.17	17.00	16.83	18.60
RDL-1 CB A-3	7.79	0.04	1.39	0.010	4	6.0	16.0	31.67	5.0	1.58	21.17	19.58	22.50
RDL-2 CB A-4	7.79	0.04	1.24	0.010	4	5.3	14.2	25.00	5.0	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	0.28	29.17	28.88	30.50
RDL-4 KEY 5	7.79	0.04	1.19	0.010	4	5.1	13.7	23.33	5.0	1.17	32.67	31.50	34.00
RDL-5 CB A-3	7.79	0.04	0.33	0.010	4	2.3	3.8	1.79	16.0	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	53.0	1.07	22.67	21.60	24.00
RDL-7 KEY 3	7.79	0.08	0.87	0.010	4	5.3	10.0	12.33	5.0	0.62	21.37	20.75	22.70
RDL-8 KEY 4	7.79	0.04	0.75	0.010	4	3.9	8.6	9.17	4.0	0.37	21.37	21.00	22.70
RDL-9 KEY 4	7.79	0.08	1.18	0.010	4	6.1	13.5	22.70	47.0	10.67	31.67	21.00	33.00
KEY 1 KEY 2	7.79	0.02	0.88	0.012	4	3.7	10.1	18.26	15.7	2.87	21.60	18.73	22.80
KEY 4 CB A-1	7.79	0.13	1.44	0.012	4	8.7	16.5	48.61	6.0	2.92	21.00	18.08	22.70

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
- TREE PROTECTION FENCING

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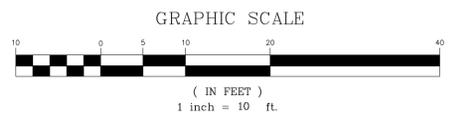
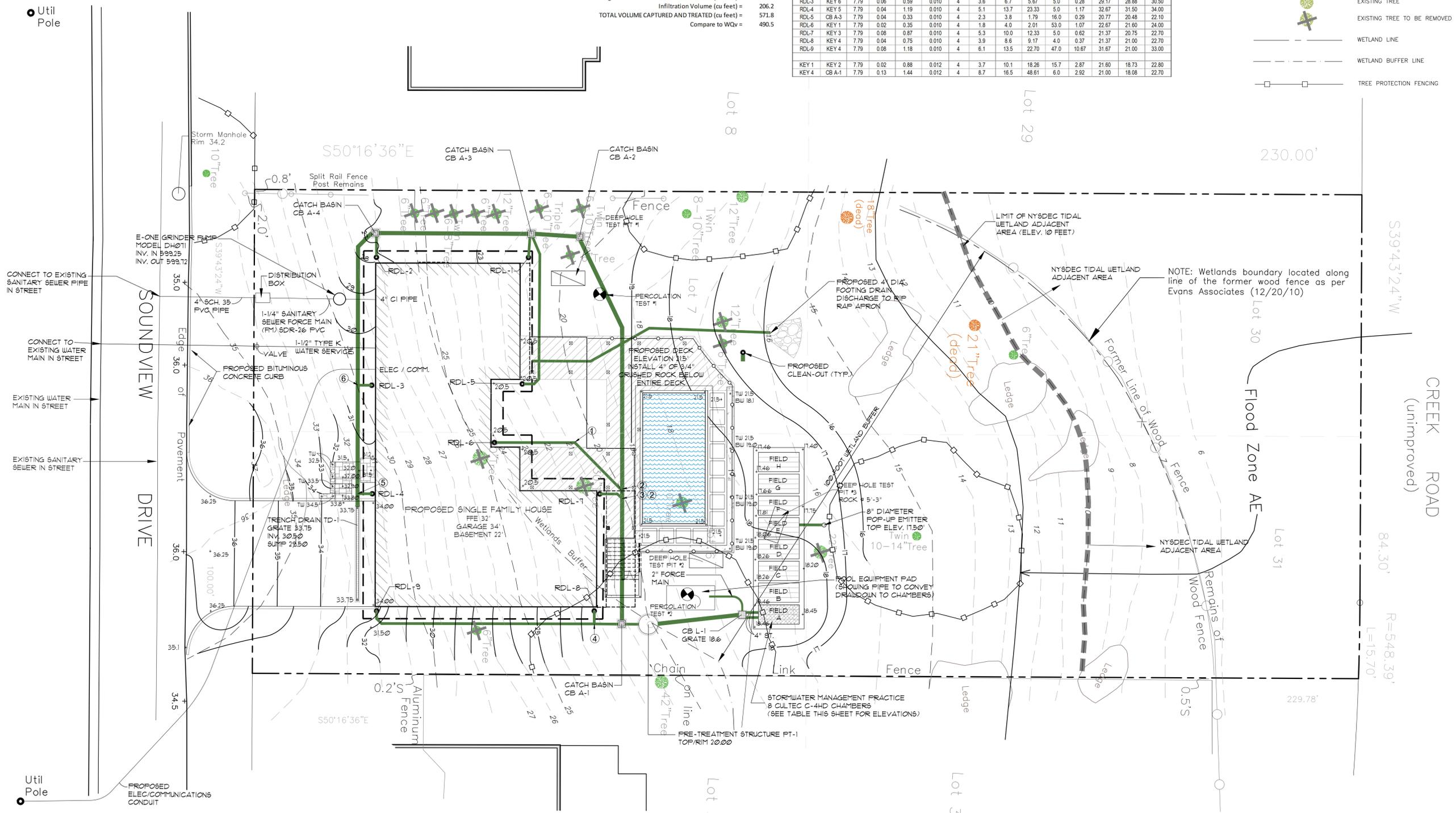
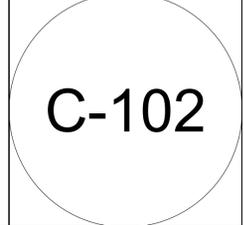
ISSUED:  
 Rev. as per comment from Village and consultants 12/29/2021  
 Rev. as per results of deep hole and percolation testing 05/27/2022  
 Re-submission to Planning Board 09/19/2022  
 Rev. as per HCZM and Village consulting Engineer comments 10/24/2022  
 Rev. as per HCZM and Village consulting Engineer comments 11/15/2022  
 Rev. as per HCZM and Village consulting Engineer comments 11/28/2022  
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 Rev. as per Ping Bd and Village consulting Engineer comments 01/16/2023  
 Rev. as per HCZM and Village consulting Engineer comments 03/08/2023

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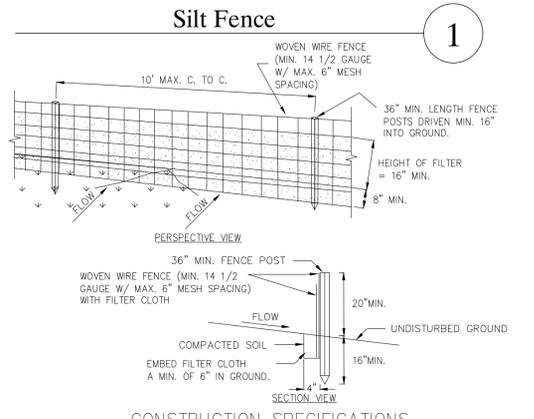


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**D'ARCANGELO PROPERTY**  
 921 Soundview Drive  
 Village of Mamaroneck, New York  
 ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**  
 P.O. Box 843 Ridgfield, CT 06877  
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Drawing Title:  
**Grading and Utilities Plan**  
 Date: October 18, 2021  
 Dwn. by: alp  
 ID: 921 Soundview\_Site\_03-08-2023



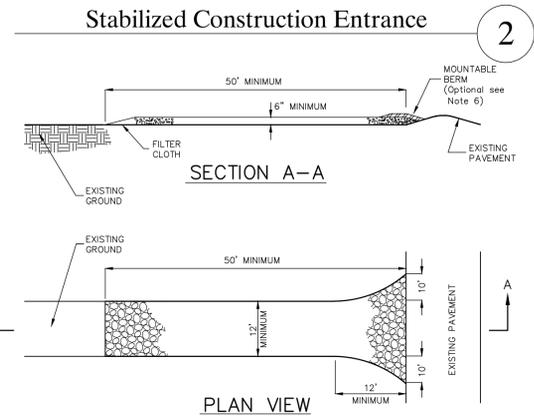




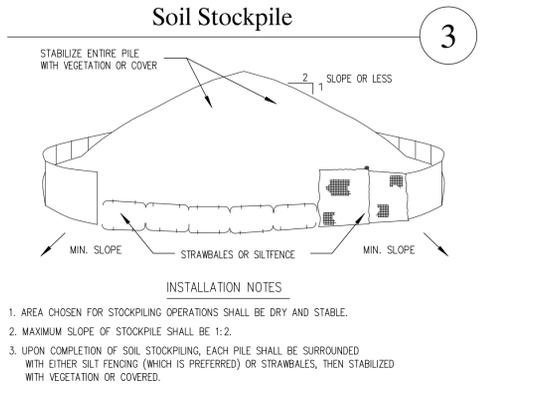
- CONSTRUCTION SPECIFICATIONS**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "I" OR "U" TYPE OR HARDWOOD.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE 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 1140N, OR APPROVED EQUIVALENT.
  - PREFABRICATED UNITS SHALL BE GEOFAB, 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

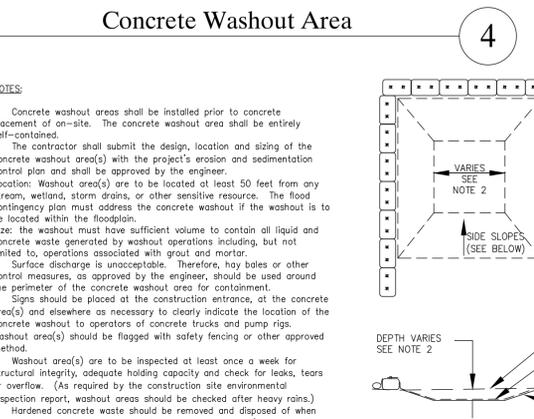


- NOTES:**
- STONE SIZE - USE 3/4" - 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  - LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
  - THICKNESS - NOT LESS THAN SIX (6) INCHES.
  - WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT 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 CLEANOUT 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.

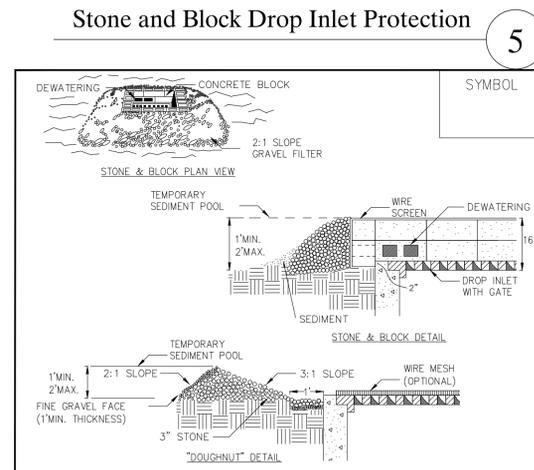


- INSTALLATION NOTES**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
  - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
  - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING (WHICH IS PREFERRED) OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR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

SEE SHEET L-1 TREE PROTECTION PLAN PREPARED BY LIZ HAND FRY FOR THE CONSTRUCTION DETAIL OF THE TREE PROTECTION TO BE INSTALLED



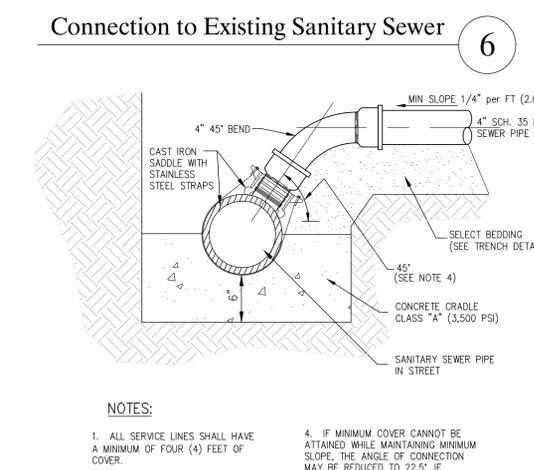
- NOTES:**
- Concrete washout areas shall be installed prior to concrete placement of on-site. The concrete washout area shall be entirely self-contained.
  - The contractor shall submit the design, location and sizing of the concrete washout area(s) with the project's erosion and sedimentation control 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.
  - Signs should be placed at the construction entrance, at the concrete area(s), and elsewhere as necessary to clearly indicate the location of the concrete washout to operators of concrete trucks and pump rigs. Washout area(s) should be flagged 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.



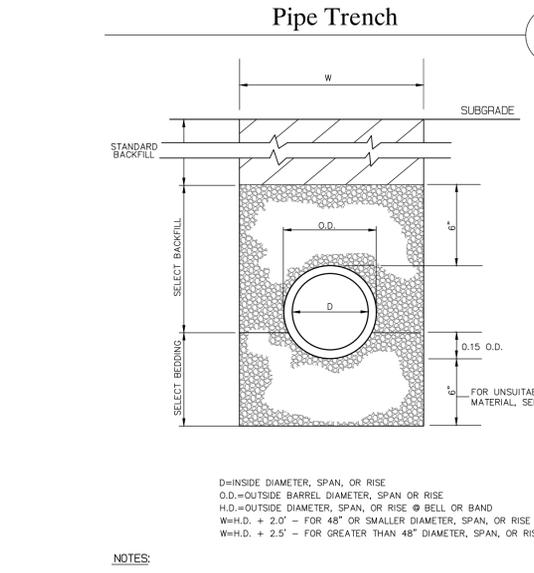
- CONSTRUCTION SPECIFICATIONS**
- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
  - HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT 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.

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

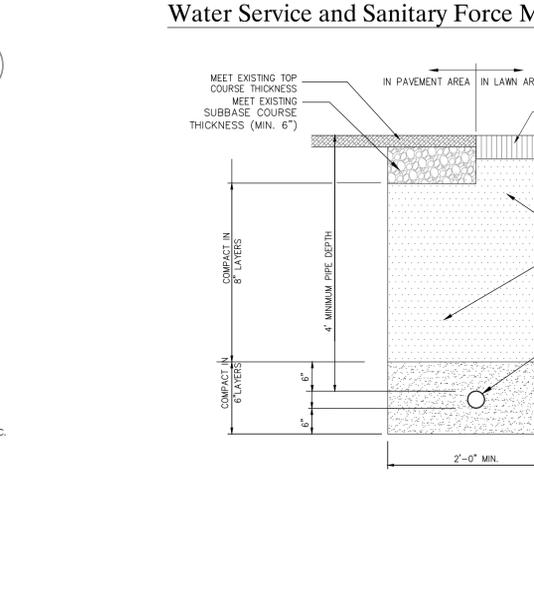
STONE & BLOCK DROP INLET PROTECTION



- 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.



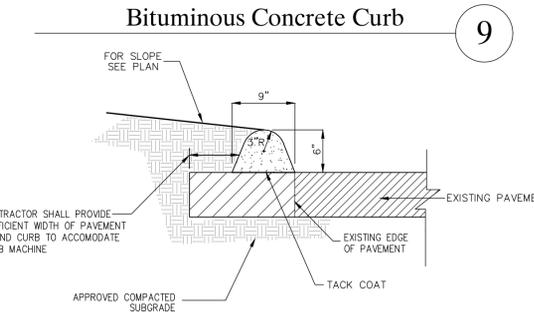
- NOTES:**
- FOR TYPE II TRENCH, MATERIAL FOR SELECT BEDDING AND SELECT BACKFILL SHALL BE:
    - EITHER SAND OR CRUSHED STONE IF NO WATER IS ENCOUNTERED IN TRENCH.
    - CRUSHED STONE IF WATER IS ENCOUNTERED IN TRENCH.
  - TYPE II TRENCH SHALL BE USED IN ALL OF THE FOLLOWING CASES:
    - FOR ALL PVC PIPE AND CONDUIT INSTALLATION.
    - WHEN ROCK OR HARDPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
    - WHEN UNSUITABLE MATERIAL IS ENCOUNTERED IN 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 30X OF ITS DIAMETER OR RISE. THE LAYER OF BEDDING MATERIAL SHALL BE SHAPED TO FIT THE PIPE OR CONDUIT FOR AT LEAST 15X OF THE OUTSIDE DIAMETER OR RISE OF THE PIPE OR CONDUIT AND SHALL HAVE RECESSES SHAPED TO RECEIVE THE BELL OF BELL AND SPIGOT 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.



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    - WHEN ROCK OR HARDPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
    - WHEN UNSUITABLE MATERIAL IS ENCOUNTERED IN 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 30X OF ITS DIAMETER OR RISE. THE LAYER OF BEDDING MATERIAL SHALL BE SHAPED TO FIT THE PIPE OR CONDUIT FOR AT LEAST 15X OF THE OUTSIDE DIAMETER OR RISE OF THE PIPE OR CONDUIT AND SHALL HAVE RECESSES SHAPED TO RECEIVE THE BELL OF BELL AND SPIGOT 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.



- 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 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 30X OF ITS DIAMETER OR RISE. THE LAYER OF BEDDING MATERIAL SHALL BE SHAPED TO FIT THE PIPE OR CONDUIT FOR AT LEAST 15X OF THE OUTSIDE DIAMETER OR RISE OF THE PIPE OR CONDUIT AND SHALL HAVE RECESSES SHAPED TO RECEIVE THE BELL OF BELL AND SPIGOT 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.
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  - 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.



- NOTES:**
- CONTRACTOR SHALL PROVIDE SUFFICIENT WIDTH OF PAVEMENT BEHIND CURB TO ACCOMMODATE CURB MACHINE.
  - APPROVED COMPACTED SUBGRADE.
  - TACK COAT.
  - EXISTING PAVEMENT.
  - EXISTING EDGE OF PAVEMENT.

**CONSULTANTS:**  
PROJECT ARCHITECT:  
Jaclyn Tyler, AIA  
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Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY, 10591  
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**ISSUED:**

Resubmission to Village	12/29/2021
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Re-submission to Planning Board	03/08/2023

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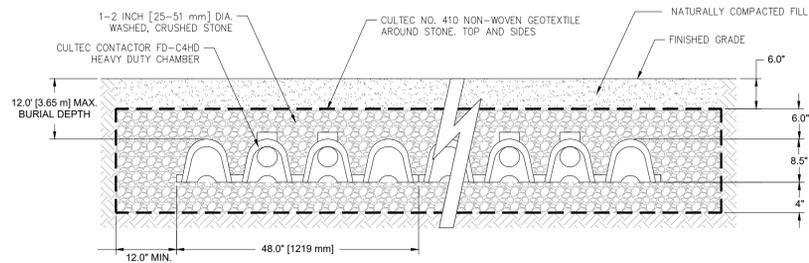
**ENGINEER & LANDSCAPE ARCHITECT:**  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**  
P.O. Box 843 Ridgefield, CT 06877  
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**Drawing Title:**  
**Construction Details**

Date: October 18, 2021  
Dwn. by: alp  
ID: 921 Soundview\_Site\_03-08-2023

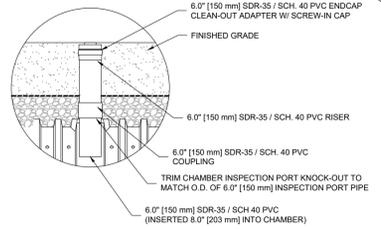


### Cultec C-4HD Chamber Installation



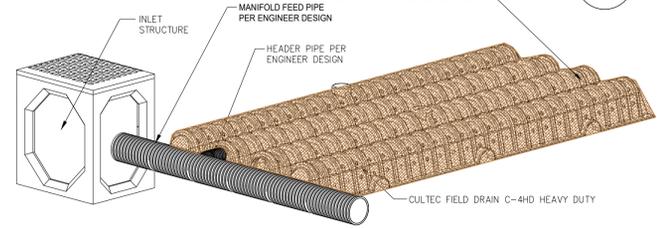
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### Observation Port



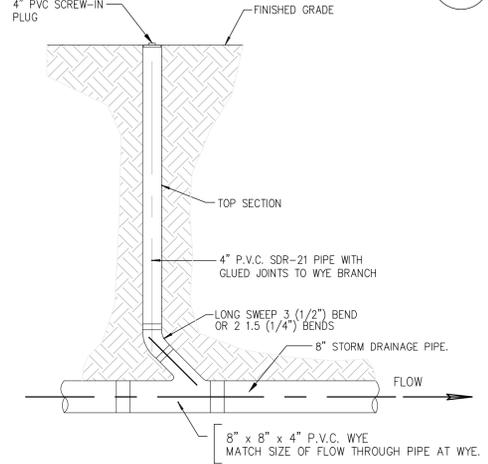
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### Cultec Separator Row Installation



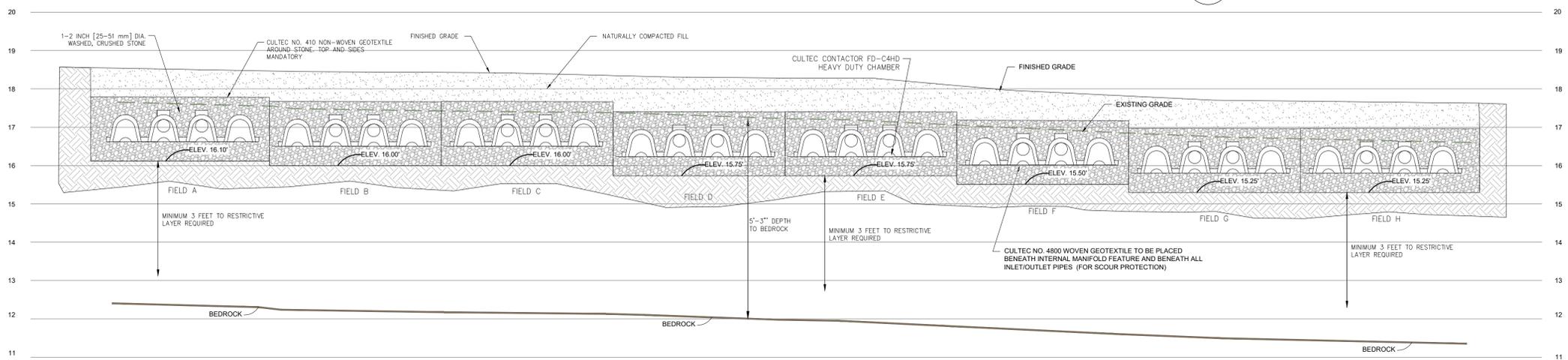
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### Storm Drainage Clean-Out



4

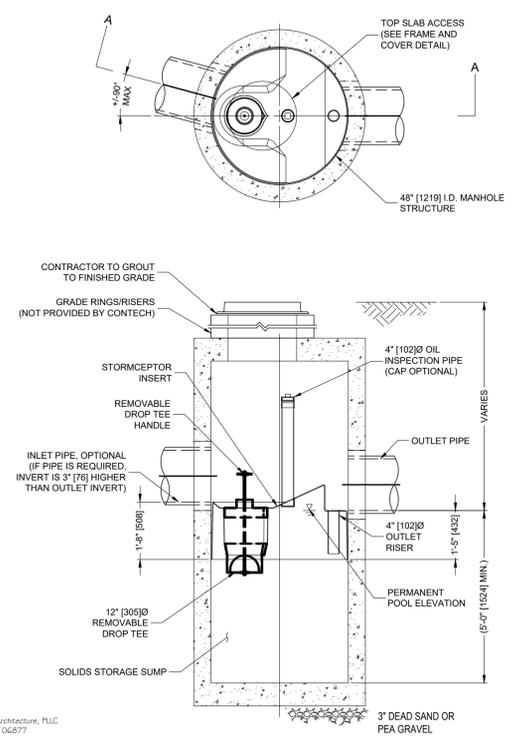
### Stormwater Management Practice Cultec C-4HD Chamber Installation



5

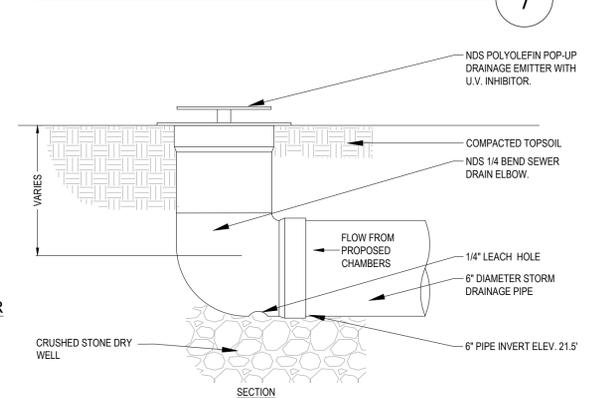
### Pre-Treatment Facility - Stormceptor 450i

6



### 6\"/>

7



FRAME AND COVER  
(MAY VARY)  
NOT TO SCALE

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. DO NOT SCALE DRAWING.
  3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
  4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.



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### SCHEDULE "A" STORMWATER MAINTENANCE FACILITY MAINTENANCE AND ACCESS AGREEMENT BY AND BETWEEN OWNER AND THE VILLAGE OF MAMARONECK

STORMWATER MANAGEMENT PRACTICE	MAINTENANCE AND INSPECTION MEASURES
Subsurface Chambers	<p><b>Inspect for:</b></p> <ul style="list-style-type: none"> <li>(i) Depth of sediment, if any, through inspection via the installed observation ports of the chambers during the first 2 to 3 months of operation, and thereafter on an annual basis.</li> <li>(ii) The rate of dewatering of the infiltration facility following a precipitation event. The chambers should fully dewater within 48 hours of the end of the precipitation event.</li> </ul> <p><b>Maintenance Measures include:</b></p> <ul style="list-style-type: none"> <li>(i) Observe the depth of sediment, if any, through the inspection port of the chambers on an annual basis.</li> <li>(ii) Remove sediment from chambers when the depth of sediment is 3" or more.</li> </ul>
Catch Basins	<p><b>Inspection Procedures:</b> Inspect the catch basins annually in the spring or summer. Inspect for: (i) sediment deposition or floatables in the catch basin, and (ii) structural integrity.</p> <p><b>Maintenance Tasks include:</b></p> <ul style="list-style-type: none"> <li>Remove the grate.</li> <li>Skim off any floatables (leaves)</li> <li>Using a yardstick, measure the depth of sediment</li> <li>If sediment is at a depth greater than 6", then remove sediment with a shovel. If not replace grate or cover.</li> <li>Record depth &amp; date when the work is done.</li> </ul>
Hydrodynamic Separators	<p><b>Inspection Procedures:</b> Inspect the hydrodynamic separator at the end of the first year of operation and following that once every five (5) years. Inspect for: (i) sediment deposition or floatables in the structure, and (ii) structural integrity.</p>
Maintenance Procedures	<p><b>Maintenance Tasks include:</b></p> <p>Clean out the unit once the sediment depth reaches the manufacturer's recommended maintenance sediment depth which for the Model STC 450i is 8 inches. The frequency may be adjusted based on inspection results due to variable site sediment loading.</p> <p>Equipment is typically required for inspection includes:</p> <ul style="list-style-type: none"> <li>Manhole access cover lifting tool (i.e., crowbar)</li> <li>Flashlight</li> </ul>
	<p>Stormceptor is to be inspected from grade through a standard surface manhole access cover. Sediment inspections are performed with a sediment probe.</p> <ul style="list-style-type: none"> <li>Maintenance cleaning of accumulated sediment is performed with a vacuum truck.</li> </ul>

CONSULTANTS:  
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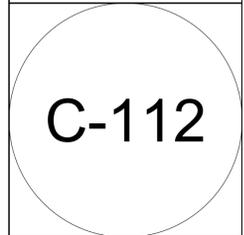


PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**  
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**Construction Details**

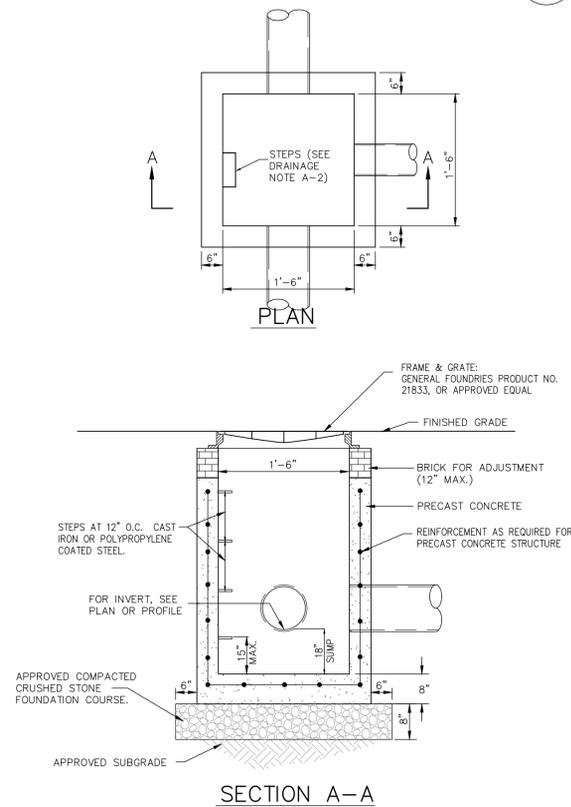
Date: October 18, 2021  
Dwn. by: alp  
ID: 921 Soundview\_Site\_03-08-2023



Civil engineer:  
Alan L. Flinch  
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Catch Basin

1



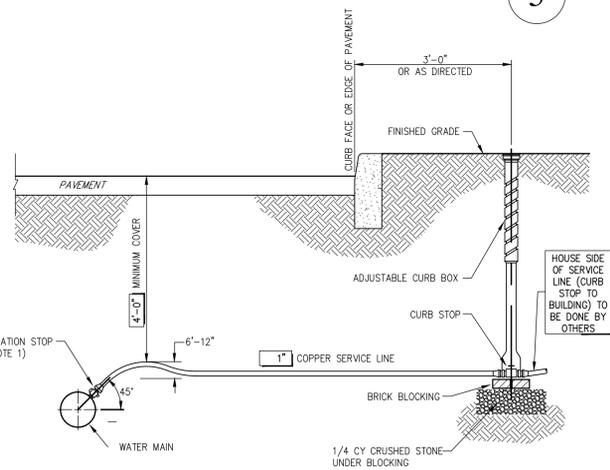
SECTION A-A

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 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

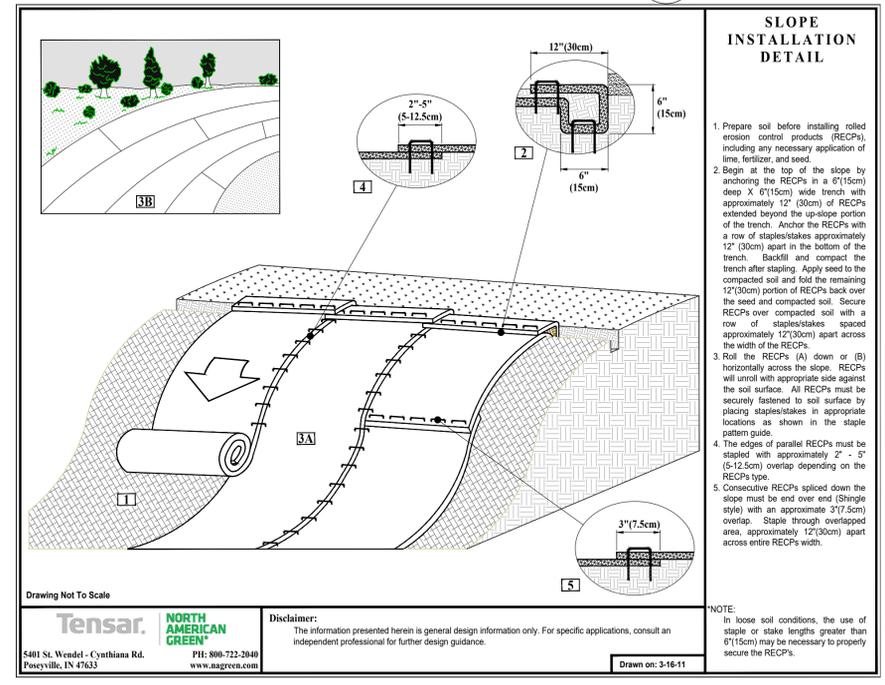
5



Civil Engineer:  
Alan L. Pich  
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C. of A. #0016331  
Tel: (878) 219-5848

Erosion Control Mat (Geotextile Fabric)

2



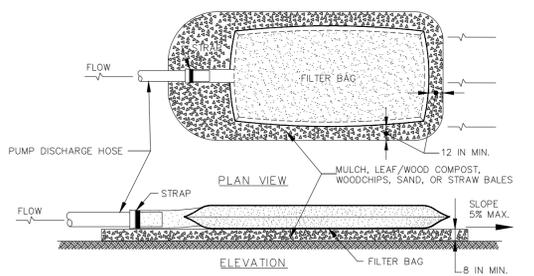
**Tensor.** NORTH AMERICAN GREEN  
5401 St. Wendel - Cynthiana Rd. P.O. Box 722-2940  
Pawcatuck, IN 47633 P.H. 800-722-2940  
www.aggreen.com

Disclaimer: The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

NOTE: In loose soil conditions, the use of staple or stake lengths greater than 6" (15cm) may be necessary to properly secure the RECPs.

Dewatering (Filter) Bag for Sediment

6



**CONSTRUCTION SPECIFICATIONS**

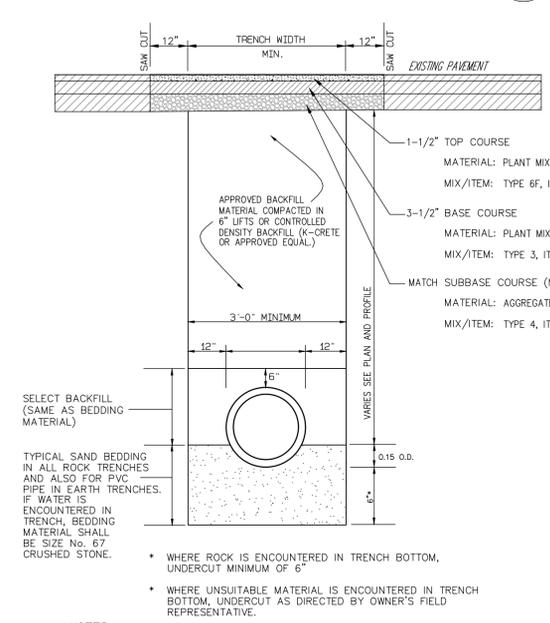
1. TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES 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 <sup>2</sup>	ASTM D-4491
PERMITTIVITY (SEC <sup>-1</sup> )	1.2 SEC <sup>-1</sup>	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

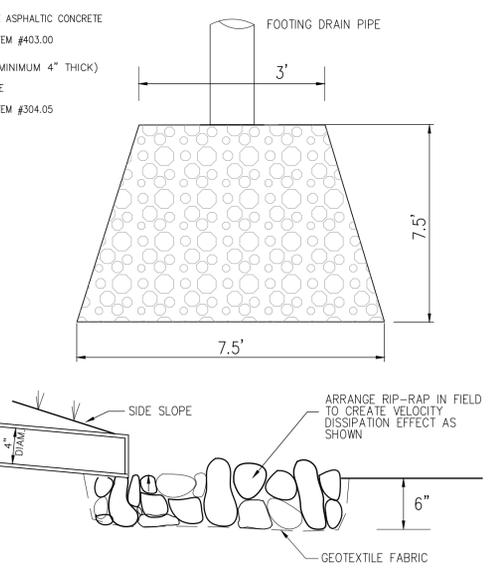


**NOTES**

1. THICKNESS INDICATED REFERS TO COMPACTED MEASURE.

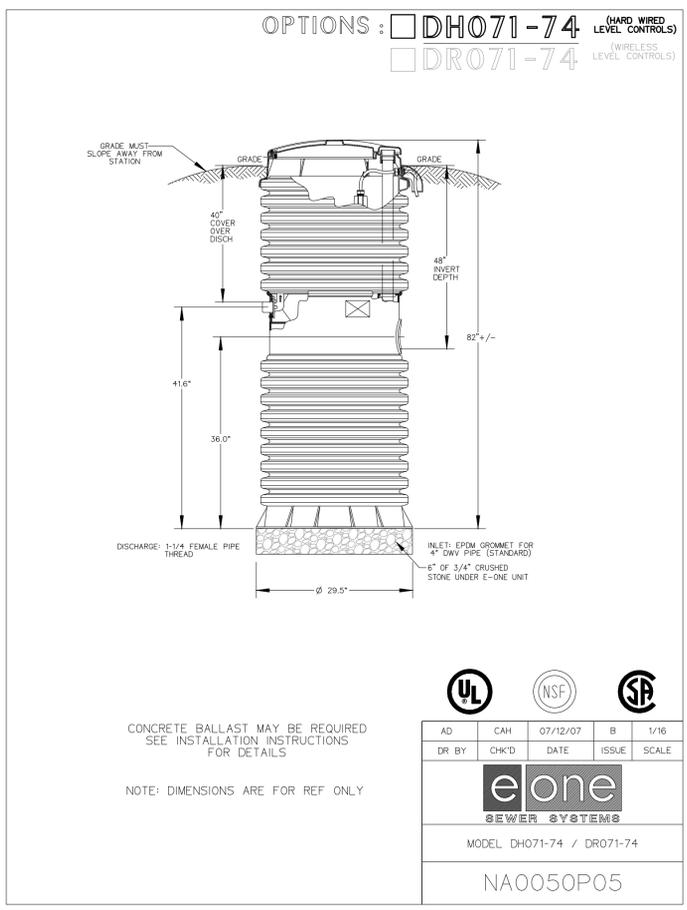
Rip Rap Apron

4



E-One Grinder Pump System

7



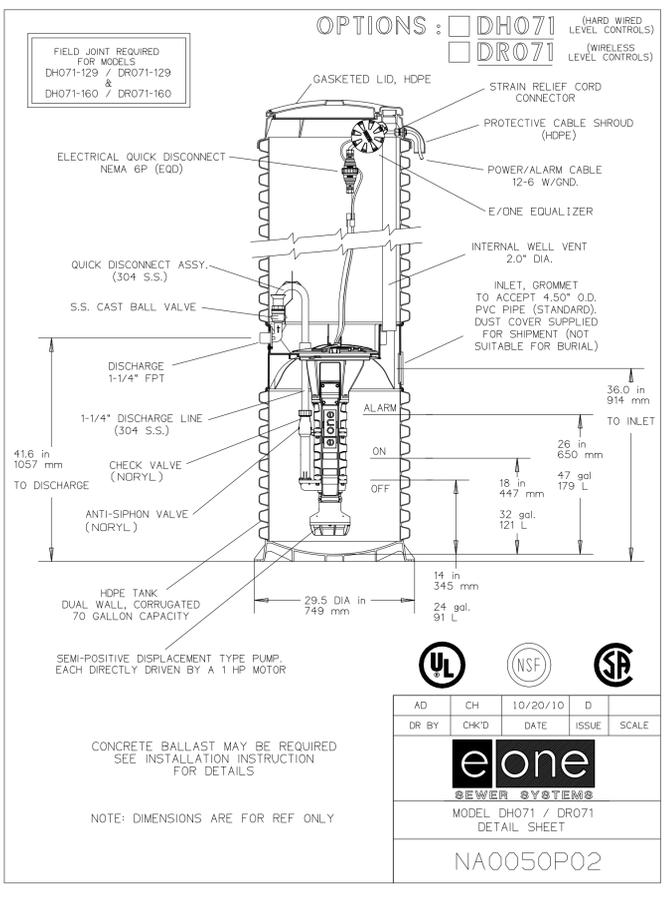
CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

UL NSF SP

AD	CAH	07/12/07	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

**eone**  
SEWER SYSTEMS  
MODEL DH071-74 / DR071-74  
NA0050P05



CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTION FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

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DR BY	CHK'D	DATE	ISSUE	SCALE

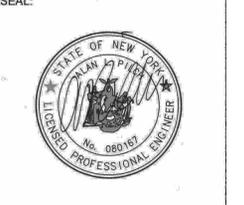
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SEWER SYSTEMS  
MODEL DH071 / DR071  
DETAIL SHEET  
NA0050P02

CONSULTANTS:  
PROJECT ARCHITECT:  
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