

ALFONZETTI ENGINEERING, P.C.  
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Adam R. Kaufman, AICP  
Director of Planning  
Planning Department  
Town of North Castle  
17 Bedford Road  
Armonk, NY 10504

May 22, 2023

Re: 2 Tripp Lane/Saglimbeni Residence/Remediation Plan  
Town of North Castle

Adam, please find enclosed the following:

- One (1) copy of the following plan entitled
  - "Remediation Plan, dated September 16, 2020, last revised May 22, 2023, Saglimbeni Residence, 2 Tripp Lane, Town of North Castle, Westchester County, NY."
  - "Site Details, dated February 11, 2022, last revised May 22, 2023, Saglimbeni Residence, 2 Tripp Lane, Town of North Castle, Westchester County, NY."

We are requesting placement on the next planning Board agenda.

Please call if there are any questions.

Thank You,

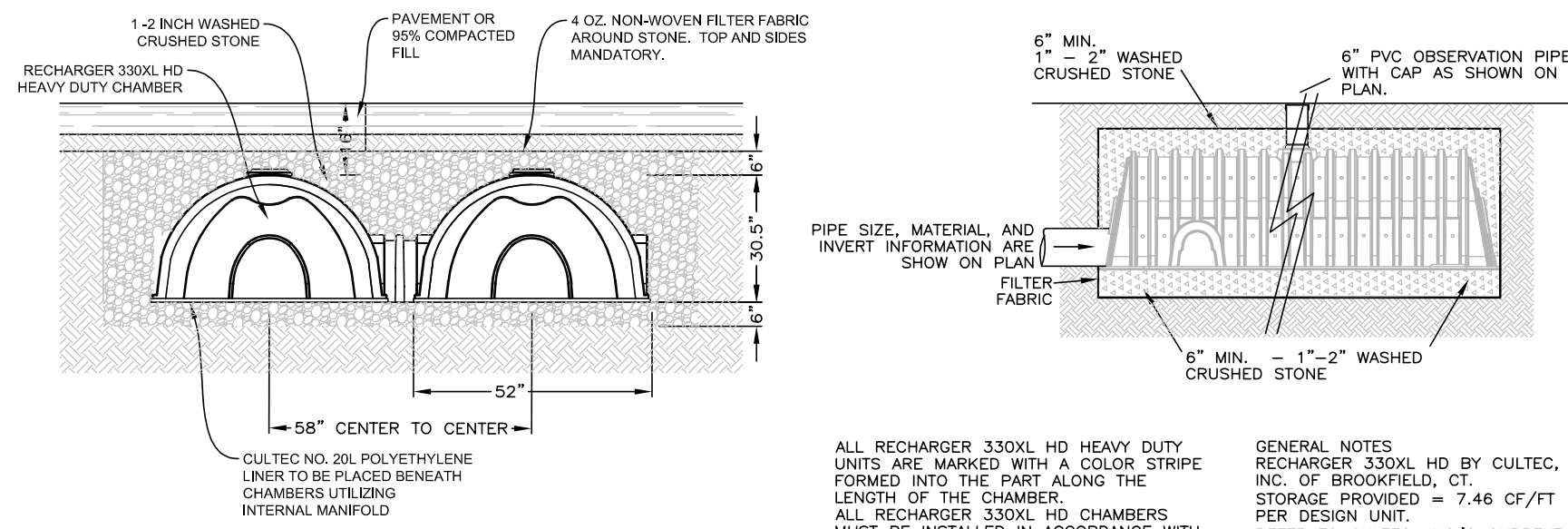


Ralph Alfonzetti, P.E.  
ALFONZETTI ENGINEERING, P.C.

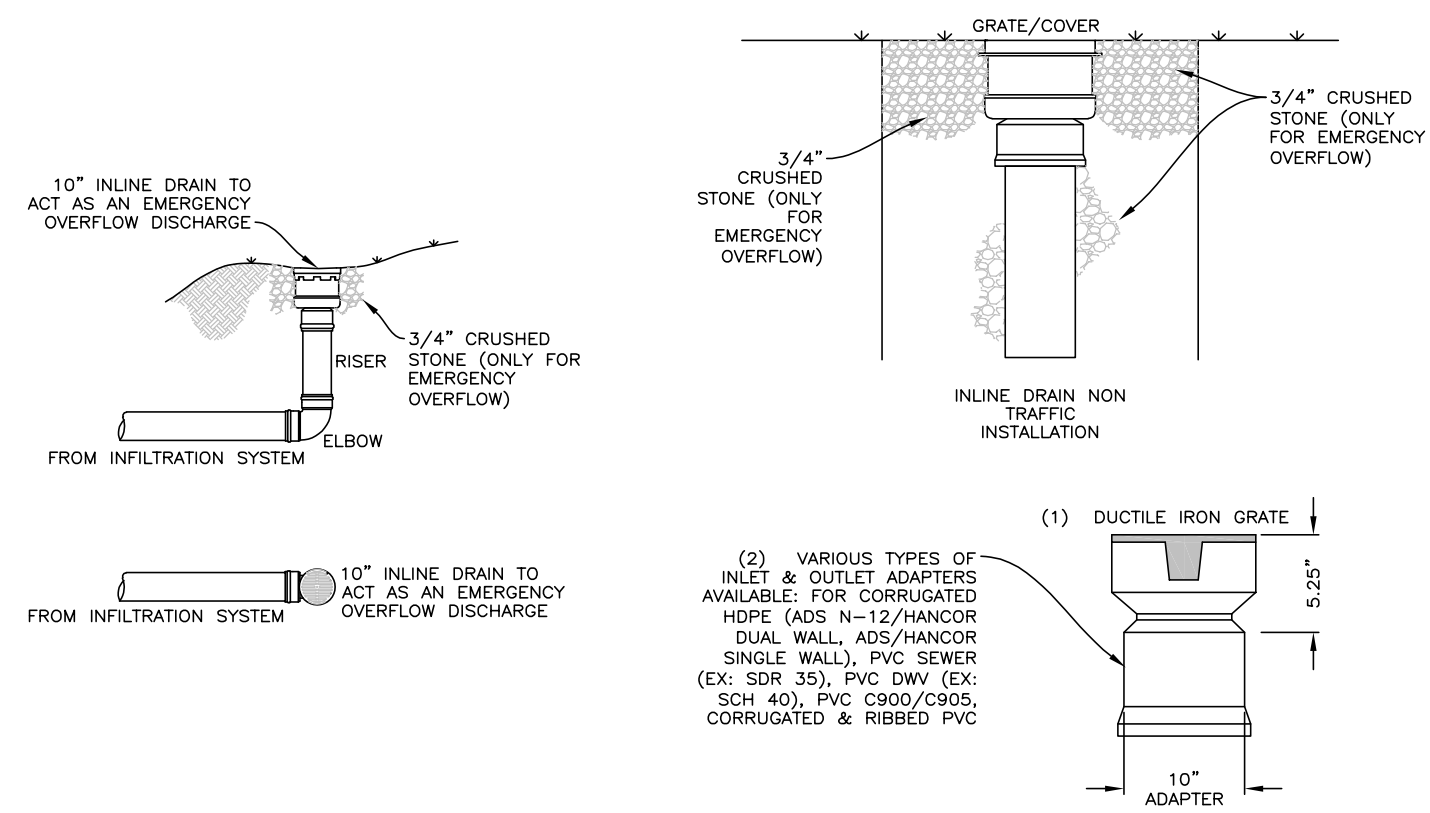


STORMWATER CALCULATIONS

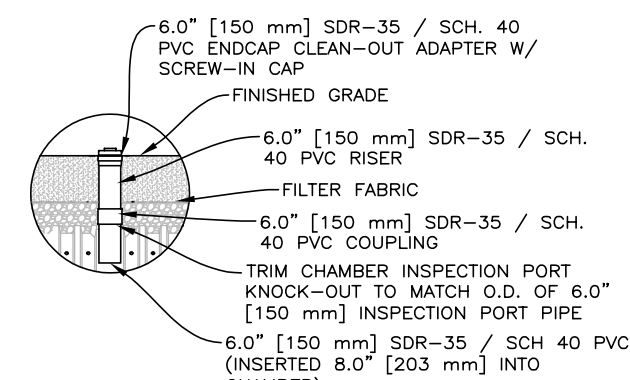
|   |               |       |
|---|---------------|-------|
| DRAINAGE STUDY AREA:                          | S.F.          | 1893  |
| DESIGN STORM (25 YR.):                        | IN.           | 6.46  |
| HYDROLOGIC SOIL TYPE:                         |               | B     |
| EXISTING CN:                                  |               | 74    |
| PROPOSED CN:                                  |               | 98    |
| REQUIRED STORAGE VOLUME CALCULATION           |               |       |
| EX. RUNOFF DEPTH:                             | IN.           | 3.58  |
| PR. RUNOFF DEPTH:                             | IN.           | 6.22  |
| DELTA RUNOFF DEPTH:                           | IN.           | 2.65  |
| REQUIRED STORAGE VOLUME:                      | C.F.          | 417.4 |
| CHAMBER INFORMATION                           |               |       |
| LENGTH OF 1 CHAMBER:                          | FT.           | 8.5   |
| WIDTH OF 1 CHAMBER:                           | FT.           | 4.33  |
| HEIGHT OF CHAMBER:                            | FT.           | 2.54  |
| WIDTH OF STONE SURROUNDING CHAMBER:           | FT.           | 1     |
| DEPTH OF STONE UNDER CHAMBER:                 | FT.           | 0.5   |
| STONE VOID RATIO:                             |               | 0.33  |
| VOLUME PER CHAMBER (AS PER MANUFACTURER):     |               |       |
| TRENCH SIZE                                   |               |       |
| TRENCH WIDTH:                                 | FT.           | 6.33  |
| TRENCH LENGTH (UNIT LENGTH):                  | FT.           | 1     |
| TRENCH HEIGHT:                                | FT.           | 3.04  |
| TRENCH VOLUME:                                | C.F./L.F.     | 19.24 |
| STONE VOID VOLUME:                            | C.F.          | 3.89  |
| PERCOLATION AREA:                             | S.F./L.F.     | 6.33  |
| PERCOLATION RATE:                             | MIN./IN.      | 40    |
| PERCOLATION HOLE DIAMETER:                    | IN.           | 10    |
| WATER LEVEL DROP:                             | IN.           | 1     |
| AVERAGE DEPTH OF WATER:                       | IN.           | 8.5   |
| PERCOLATION HOLE BOTTOM AREA:                 | S.F.          | 0.55  |
| PERCOLATION HOLE SIDE AREA:                   | S.F.          | 1.85  |
| PERCOLATION HOLE TOTAL AREA:                  | S.F.          | 2.40  |
| PERCOLATION VOLUME CHANGE:                    | C.F.          | 0.045 |
| ADJUSTED PERCOLATION RATE:                    | C.F./S.F./DAY | 0.68  |
| PERCOLATION VOL. PER DAY:                     | C.F./DAY/L.F. | 4.3   |
| SOIL CLOGGING FACTOR:                         |               | 25%   |
| PERCOLATION WITH CLOGGING:                    | C.F./DAY/L.F. | 3.2   |
| TOTAL VOLUME OF CHAMBERS:                     | C.F./DAY/L.F. | 14.6  |
| REQUIRED LENGTH CHAMBERS:                     | L.F.          | 28.62 |
| REQUIRED NUMBER OF CHAMBERS @ 7 L.F./CHAMBER: |               | 4.09  |
| PROPOSED NUMBER OF CHAMBERS:                  |               | 5.00  |



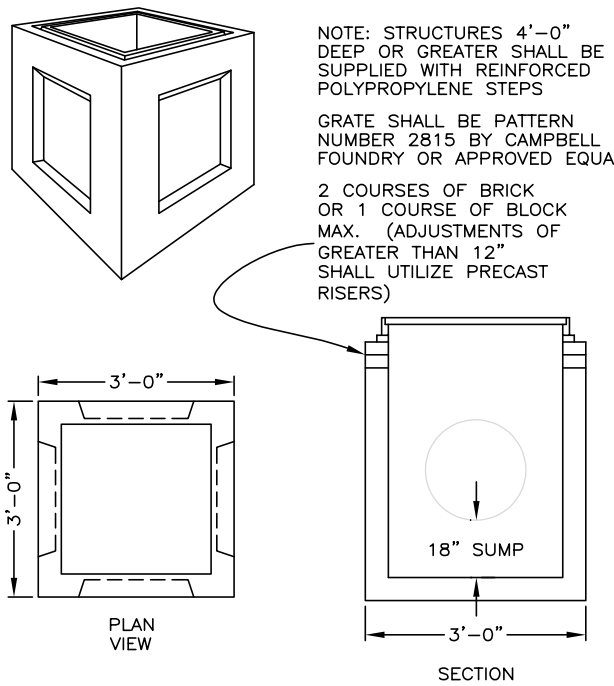
STORMWATER CHAMBER CROSS SECTION N.T.S.



YARD DRAIN EMERGENCY OVERFLOW DISCHARGE N.T.S.



'CULTEC' CHAMBERS INSPECTION PORT NON-TRAFFIC APPLICATION N.T.S.



YARD DRAIN N.T.S.

APPROVED BY TOWN OF NORTH CASTLE PLANNING BOARD RESOLUTION, DATED: \_\_\_\_\_

ENGINEERING DRAWINGS, PLANS REVIEWED BY TOWN ENGINEER

JOSEPH CERMELE, P.E.  
KELLARD SESSIONS CONSULTING, P.C.  
CONSULTING TOWN ENGINEERS

CHRISTOPHER CARTHY, CHAIRMAN  
TOWN OF NORTH CASTLE PLANNING BOARD

ALFONZETTI ENGINEERING, P.C.  
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914-666-9800 INFO@ALFONZETTIENG.COM

|  |                            |   |
|--|----------------------------|---|
| SITE DATA  |                            | SHEET 02 OF 02  |
| OWNER/APPLICANT:<br>MARTA SAGLIMBENI               |                            |   |
| SITE ADDRESS:<br>2 TRIPP LANE,<br>ARMONK, NY 10504 |                            | PROJECT: SAGLIMBENI RESIDENCE<br>2 TRIPP LANE<br>TOWN OF NORTH CASTLE<br>WESTCHESTER COUNTY, NY |
| TAX MAP #:<br>10B.02-1-11                          |                            |   |
| LOT AREA: 2.16 ACRES                               | REVISED: MAY 22, 2023      |   |
| ZONING: R-2A                                       | REVISED: JUNE 10, 2022     |   |
| DRAWING: SITE DETAILS                              | REVISED: FEBRUARY 11, 2022 |   |
| FEBRUARY 11, 2022                                  |                            |   |

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209(2), FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ANY ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.