GEOGRAPHIC INDEX 541795 616244

## PUTNAM COUNTY DEPARTMENT OF HEALTH

### CONSTRUCTION NOTES FOR SUBSURFACE SEWAGE TREATMENT SYSTEMS & WELL WATER SUPPLIES SERVING SINGLE-FAMILY RESIDENCES

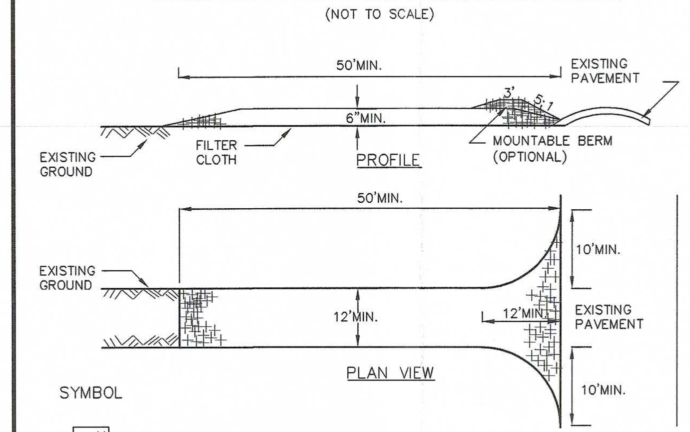
1. ALL TREES WITHIN 10 FEET OF THE PROPOSED SUBSURFACE SEWAGE TREATMENT SYSTEM (SSTS) SHALL BE REMOVED.
2. SSTS TO BE INSPECTED BY THE LICENSED DESIGN PROFESSIONAL AND THE PUTNAM COUNTY HEALTH DEPARTMENT AFTER CONSTRUCTION AND PRIOR TO BACKFILL.
3. THE SSTS AREA SHALL BE STAKED AND ROPED OFF SO THAT NO TRUCKS, MACHINERY, BUILDING MATERIALS, NOR EXCAVATED EARTH SHALL BE ALLOWED IN THE SSTS AREA.
4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION AND MUST BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE AND STABILIZATION HAS OCCURRED.
5. CONSTRUCTION OF SSTS TO BE IN ACCORDANCE WITH THESE PLANS, ANY REVISIONS THERETO, AND THE RULES AND REGULATIONS OF THE PERMIT ISSUING GOVERNMENTAL AGENCY.
6. THE WELL IS TO BE A DRILLED WELL, CONSTRUCTED IN ACCORDANCE WITH NEW YORK STATE HEALTH DEPARTMENT 10 NYCRR APPENDIX 5B STANDARDS FOR WATER WELL, PUMP TESTED FOR A MINIMUM OF 6 HOURS AND HAVE A MINIMUM SAFE YIELD OF 5 GPM. YIELDS LESS THAN 5 GPM WILL BE IMMEDIATELY REPORTED TO THE PUTNAM COUNTY DEPARTMENT OF HEALTH.
7. THE SSTS DESIGN SHOWN HEREON DOES NOT PROVIDE FOR THE INSTALLATION OF A GARBAGE GRINDER. SUCH INSTALLATION REQUIRES ADDITIONAL DESIGN AND THE APPROVAL OF THE PUTNAM COUNTY DEPARTMENT OF HEALTH.
8. PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL IS BASED ON THE LOCATION OF THE SSTS, WELL, BUILDING, SETBACKS, AND DRIVEWAYS AS SHOWN ON THE APPROVED DRAWING. MODIFICATIONS ARE TO HAVE PRIOR PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL. UNAUTHORIZED MODIFICATIONS MADE TO THIS DRAWING AFTER THE DATE OF PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL VOIDS SAID APPROVAL.
9. ALL STONE WALLS IN AND WITHIN 10 FEET OF SSTS AREA SHALL BE REMOVED TO THEIR ENTIRE DEPTH AND THE RESULTING VOID REPLACED WITH SIMILAR ON SITE SOIL.
10. CUT OR FILL IS NOT PERMITTED IN THE SSTS AREA, EXCEPT IF SO SPECIFIED ON THIS PLAN.
11. AFTER BACKFILLING THE SYSTEM, THE SSTS AREA SHALL BE COVERED WITH A MINIMUM OF 6 INCHES OF TOPSOIL, SEEDED, AND MULCHED.
12. OCCUPANCY OF THIS STRUCTURE WILL NOT BE PERMITTED UNTIL THE CONSTRUCTION COMPLIANCE APPLICATION HAS BEEN RECEIVED AND APPROVED BY THE PUTNAM COUNTY HEALTH DEPARTMENT AND FORWARDED TO THE BUILDING INSPECTOR OF THE RESPECTIVE MUNICIPALITY AS PART OF THE CERTIFICATE OF OCCUPANCY APPLICATION.
13. THIS PLAN IS APPROVED FOR SEWAGE TREATMENT AND/OR WATER SUPPLY ONLY, AND ALL OTHER REQUIRED PERMITS AND/OR APPROVALS ARE THE RESPONSIBILITY OF THE PERMITTEE.
14. THE PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL EXPIRES TWO (2) YEARS FROM THE DATE ON THE APPROVAL STAMP AND IS REQUIRED TO BE RENEWED ON OR BEFORE THE EXPIRATION DATE. THE APPROVAL IS REVOCABLE FOR CAUSE OR MAY BE AMENDED OR MODIFIED WHEN CONSIDERED NECESSARY BY THE DEPARTMENT.
15. THE HOUSE, WELL, AND SSTS SHALL BE SURVEY LOCATED AND STAKED BY A NYS LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION.
16. FOR ALL SSTS'S WHICH ARE SUBJECT TO JOINT REVIEW AND APPROVAL WITH NYCDEP THE DESIGN PROFESSIONAL IS TO NOTIFY PCHD AND NYCDEP AT LEAST 24 HOURS PRIOR TO THE COMMENCEMENT OF THE SSTS CONSTRUCTION.

### ADDITIONAL SSTS & WELL NOTES

17. HOUSE SEWER SHALL BE 4 INCH DIAMETER CAST IRON, OR APPROVED EQUIVALENT IN PHILIPSTOWN AND CARMEL, SET ON A PITCH OF 1/4 INCH PER FOOT, WATER TIGHT AND ROOT PROOF. ALL OTHER PIPES, PERFORATED AND NON-PERFORATED SHALL BE 4 INCH DIAMETER PVC CONFORMING TO ASTM DESIGNATION D3350, UNLESS OTHERWISE NOTED. 90° BENDS ARE NOT PERMITTED. 45° BENDS MUST BE FITTED WITH A CLEANOUT. MAXIMUM SPACING BETWEEN CLEANOUTS IS 50 FEET.
18. ALL PROPOSED SSTS AND RESERVE AREAS LOCATED AT A POSTED MINIMUM SEPARATION DISTANCE SHALL BE STAKED BY A NYS LICENSED LAND SURVEYOR.
19. NO FOOTING, CELLAR OR ROOF DRAIN SHALL BE DISCHARGED INTO THE SEWAGE SYSTEM. ALL SUCH DRAINS SHALL BE DISCHARGED AWAY FROM THE ABSORPTION AREAS.
20. NO SEWAGE TREATMENT SYSTEM SHALL BE PLACED WITHIN 35 FEET OF ANY STORM DRAIN PIPE OR WITHIN 100 FEET OF ANY LAKE, POND, WATER COURSE OR WET AREA.
21. NO LATERAL SHALL BE PLACED WITHIN 10 FEET OF A DRIVEWAY.
22. ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED INTO THE SEWAGE SYSTEM.
23. WELL LOG AND WATER ANALYSIS MUST BE SUBMITTED TO THE HEALTH DEPARTMENT BEFORE A CERTIFICATE OF CONSTRUCTION COMPLIANCE WILL BE ISSUED.
24. PRECAST CONCRETE SEPTIC TANK SHALL BE DESIGNED TO WITHSTAND ALL EXTERNAL LOADS. STRUCTURAL DESIGN OF THE TANK SHALL BE RESPONSIBILITY OF THE TANK MANUFACTURER.
25. THE WELL CASING SHALL EXTEND 18 INCHES ABOVE FINISHED GRADE.
26. PROPERTY BOUNDARY & TOPOGRAPHIC DATA SHOWN HEREON IS AS SHOWN ON THAT CERTAIN MAP ENTITLED "SUBDIVISION PLAT PREPARED FOR CARL L. & DONA L. THOMSON...." PREPARED BY BADEY & WATSON, SURVEYING & ENGINEERING, P.C. DATED MAY 06, 1999, LAST REVISED JULY 06, 2000.
27. DATUM IS MAIN SEA LEVEL N.G.V.D. 1929.
28. THE CONDITIONS NOTED ON THE P.C.H.D. CERTIFICATE OF APPROVAL ARE AN INTEGRAL PART OF THIS APPROVAL, AND COMPLIANCE IS REQUIRED.
29. NO EXISTING OR PROPOSED SEPTIC SYSTEMS ARE WITHIN 200 FEET OF PROPOSED WELL EXCEPT AS SHOWN. NO EXISTING OR PROPOSED WELLS ARE WITHIN 200 FT. OF PROPOSED SEWAGE DISPOSAL SYSTEM EXCEPT AS SHOWN.
30. THERE ARE NO WATERCOURSES, STREAMS, WETLAND BOUNDARIES, OR 100 YEAR FLOOD PLAIN LIMITS, OTHER THAN THOSE SHOWN HEREON, WITHIN 250 FEET OF THE PROPOSED SSTS SHOWN HEREON.
31. THERE ARE NO STREAMS, WETLANDS, DRAINAGE COURSES, ETC., OTHER THAN THOSE SHOWN HEREON, WITHIN 200 FEET OF THE SUBJECT PARCEL BOUNDARY.
32. THE SUBSURFACE SEWAGE TREATMENT SYSTEM HEREON IS DESIGNED 1 TO 7 MINUTES PER INCH.

## STABILIZED CONSTRUCTION ENTRANCE

(NOT TO SCALE)

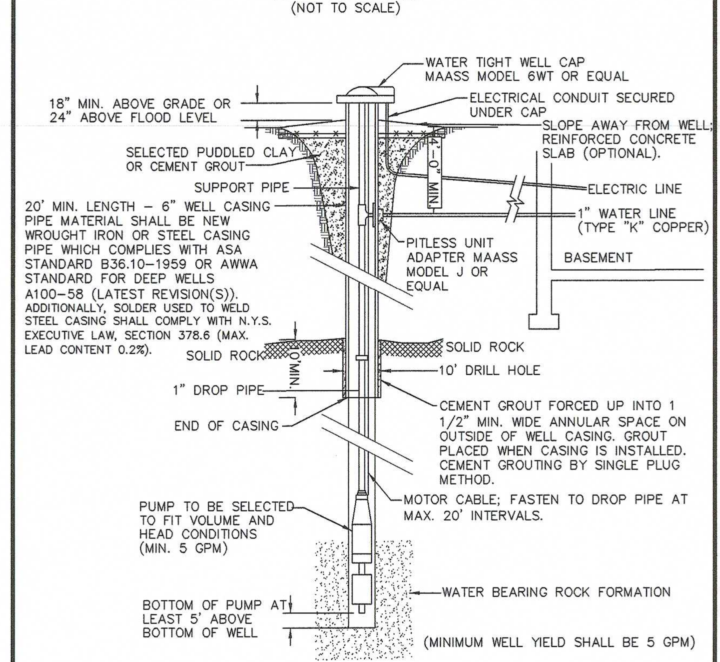



### CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
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 ENTRANCES 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 AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

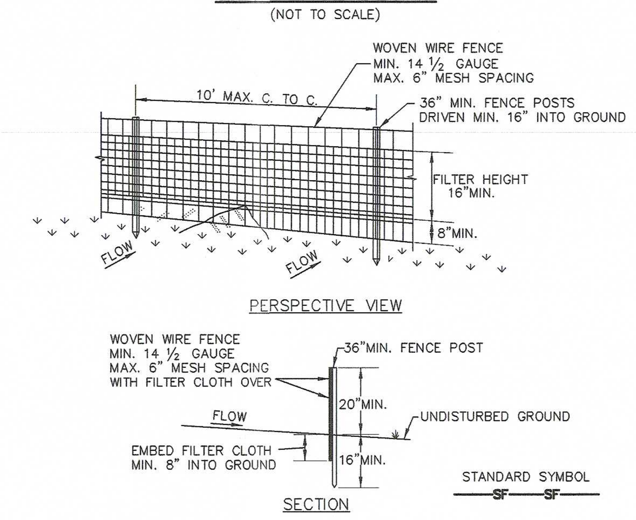
## WELL DETAIL

(NOT TO SCALE)



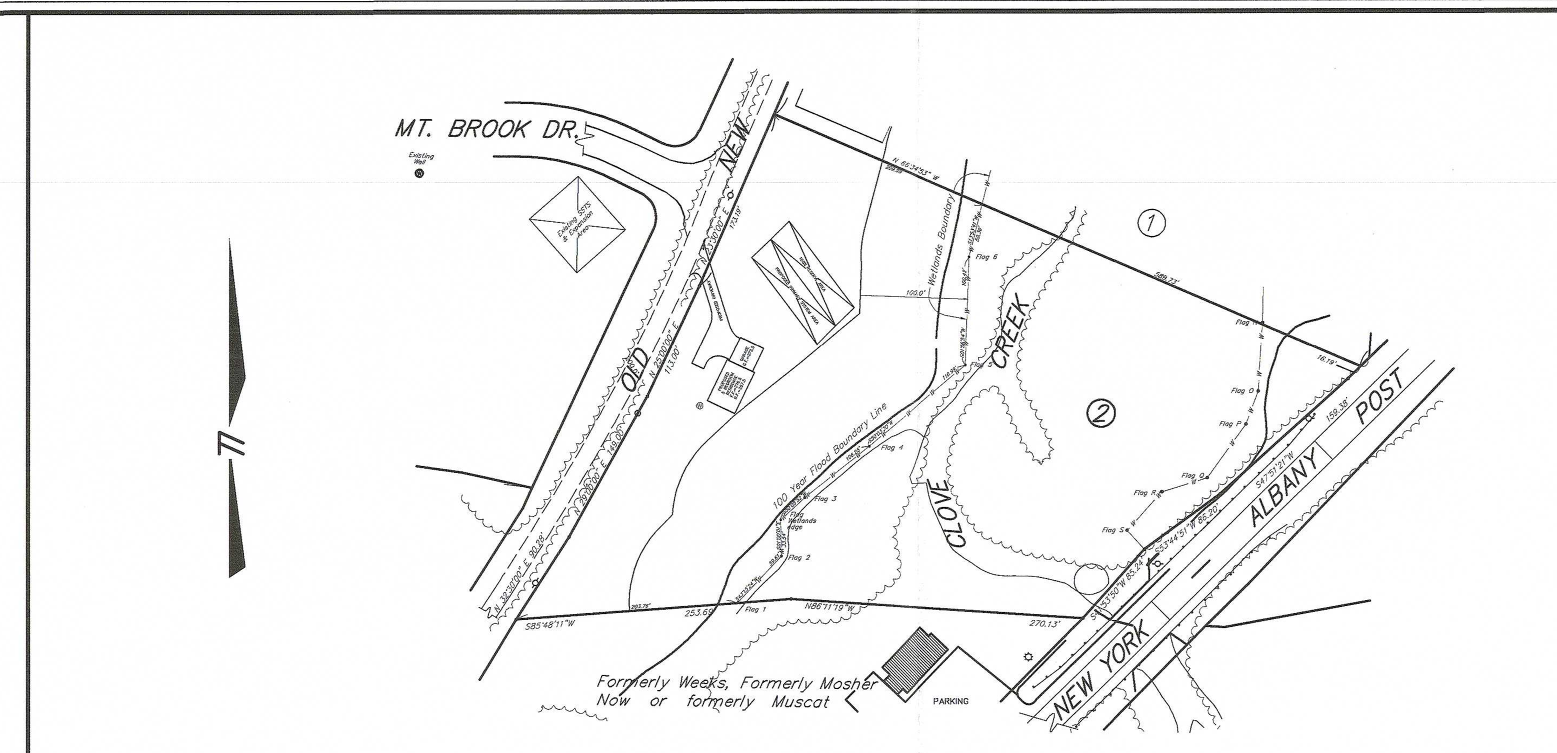

## SILT FENCE DETAIL

(NOT TO SCALE)




### CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. 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.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

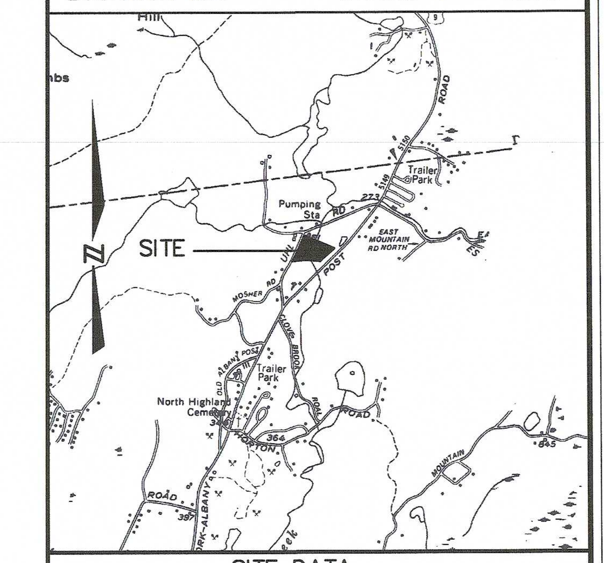



**AREA = 4.71 ACRES**

**OVERALL PROPERTY**

SCALE 1" = 100'

### LOCATION MAP SCALE: 1" = 2000'




### SITE DATA

TAX MAP NUMBER

SECTION: 17.
BLOCK: 01
LOT: 72.2

FILED MAP INFORMATION

SUBDIVISION NAME: CARL L. & DONA L. THOMSON
SUBDIVISION LOT NO. 2
FILED MAP NO. 2845
DATE FILED: SEPTEMBER 29, 2000

### FIELD TEST RESULTS

DEEP TEST HOLES

| NO. 1 | | NO. 2 | | NO. 3 | | NO. 4 | | SOIL LAYER DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| 2000 | | 2000 | | 2000 | | 2000 | | YEAR TESTS WHERE DONE |
| 0 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | TOPSOIL |
| 6 | 36 | - | - | - | - | - | - | SILTY LOAM |
| 36 | 84 | 6 | 36 | 6 | 84 | 6 | 84 | SANDY LOAM |
| - | - | 36 | 84 | - | - | - | - | SAND |

NOTE: ALL DEPTHS ARE IN INCHES FROM TOP OF HOLE.

PERCOLATION TESTS

| NO. | DATE | DEPTH | RATE | COMMENTS |
|---|---|---|---|---|
| A | 11/16/99 | 30" | 3 MIN./IN. | |
| B | 06/01/00 | 30" | 2 MIN./IN. | |
| C | 06/01/00 | 30" | 1 MIN./IN. | |
| D | 09/11/13 | 30" | 5 MIN./IN. | |
| E | 09/11/13 | 30" | 3 MIN./IN. | |
| F | 09/11/13 | 30" | 2 MIN./IN. | |
| G | 09/11/13 | 30" | 2 MIN./IN. | |

NOTE: ALL DEPTHS ARE IN INCHES FROM TOP OF HOLE. ALL HOLES THOROUGHLY PRE-SOAKED.

### LEGEND

- A — PERC TEST LOCATION W/DESIGNATION
- 5 — DEEP TEST LOCATION W/DESIGNATION
- F.F. — PROPOSED FIRST FLOOR ELEVATION
- B.F. — PROPOSED BASEMENT FLOOR ELEVATION
- G.F. — PROPOSED GARAGE SLAB ELEVATION
- PROPOSED ROOF LEADER/FOOTING DRAIN
- PROPOSED WELL
- —W— PROPOSED WATER SERVICE
- —000— PROPOSED MAJOR CONTOUR
- + 000.0 PROPOSED SPOT ELEVATION
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- —SF— PROPOSED SILT FENCE

WATERSHED: HUDSON RIVER
WATER SUPPLY: PRIVATE INDIVIDUAL WELL

### REVISIONS

| DATE | DESCRIPTION |
|---|---|
| 09/20/13 | ORIGINAL DRAWING |
| 06/04/21 | PERMIT RENEWAL |

**PLAN**

SCALE 1" = 30'

PRESENT SITE CONDITIONS WITH RESPECT TO THE WELL AND SSTS AREA ARE COMPARABLE TO THOSE AT THE TIME OF THE ORIGINAL APPROVAL.

BADEY & WATSON, SURVEYING & ENGINEERING, P.C.

06/04/21

BY MARGARET SMITH MCMANUS, P.E. DATE

### WARNING STAMP

ALTERATION OF THIS DOCUMENT, IN ANY WAY, BY ANY PERSON NOT UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, AS APPROPRIATE, IS A VIOLATION OF THE EDUCATION LAW OF THE STATE OF NEW YORK

### SYSTEM REQUIREMENTS

1. 150 GALLONS/BEDROOM/DAY
2. 750 DESIGN FLOW PER DAY
3. 376 LF OF 24" ABSORPTION TRENCH
4. 1500 GALLON SEPTIC TANK
5. NA GALLON PUMP TANK
6. NA FLOATING OUTLET CHAMBER
7. 5 PERCOLATION TEST MIN/IN
8. 5 BEDROOMS – MAXIMUM
9. NA FILL DEPTH IN FEET
10. NA CY ROB FILL
11. NA CY PERIPHERAL FILL
12. NA CY IMPERMEABLE FILL
13. NA CY TOPSOIL
14. NA LF CURTAIN DRAIN
15. NA LF CURTAIN DRAIN DISCHARGE
16. NA LF FORCE MAIN
17. FINISHED GRADE THROUGH PRIMARY SYSTEM 6.6%
18. FINISHED GRADE THROUGH RESERVE AREA 2.2%
19. EROSION CONTROL DEVICES AS SHOWN

PUTNAM COUNTY HEALTH DEPARTMENT APPROVAL STAMP

PH-09-13 Renewal
Putnam County Department of Health
Division of Environmental Health Service
Approved as noted for conformance with applicable Rules and Regulations of the Putnam County Health Department.
APHE 7/1/21
Signature & Title Date

### PROJECT LOCATION

OLD ALBANY POST ROAD
TOWN OF PHILIPSTOWN
COUNTY OF PUTNAM
STATE OF NEW YORK

### PROJECT DESCRIPTION

SEPARATE SEWAGE TREATMENT FACILITY TO SERVICE NEW SINGLE-FAMILY DWELLING WITH INDIVIDUAL PRIVATE WATER SUPPLY

### PREPARED FOR

NANCY THOMSON
5579 OLD SAN JOSE ROAD
SOQUEL CA, 95072

## SUBSURFACE SEWAGE TREATMENT SYSTEM

SCALE: AS NOTED

STATE OF NEW YORK – MARGARET SMITH MCMANUS – LICENSED PROFESSIONAL ENGINEER – 103021

LICENSE NO. 103021

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June 4, 2021
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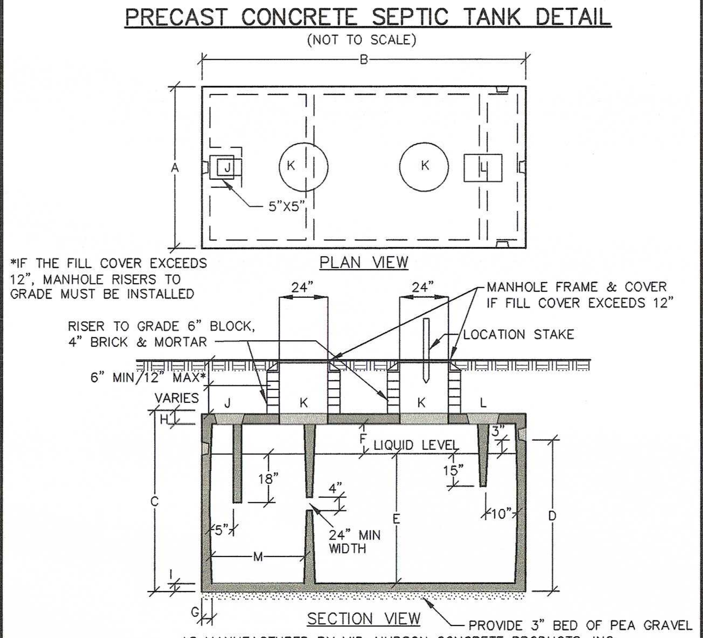
SHEET 1 OF 1

FILE NO. 79-107

## PRECAST CONCRETE SEPTIC TANK DETAIL

(NOT TO SCALE)




AS MANUFACTURED BY MID-HUDSON CONCRETE PRODUCTS, INC.

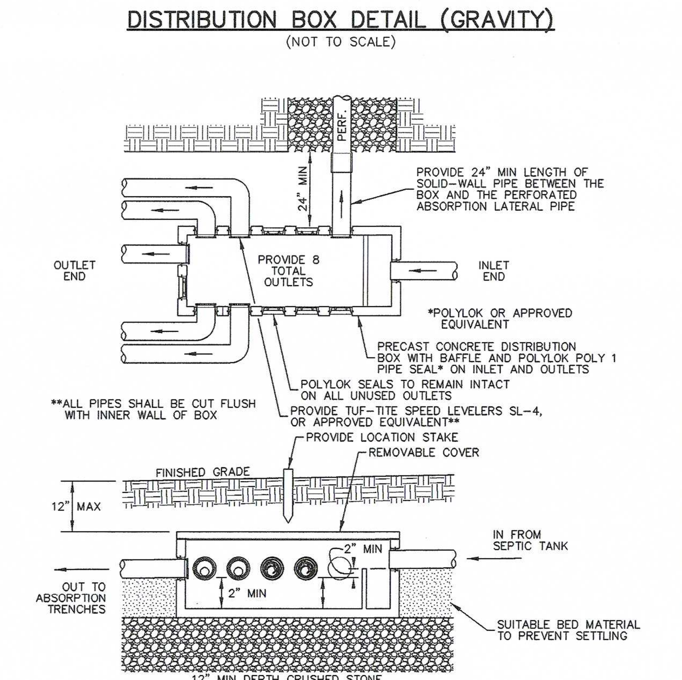
SEPTIC TANK DIMENSIONS

| NOMINAL SIZE | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,500 GAL | 67 | 126 | 68 | 56 | 48 | 10 | 3 | 5 | 5 | 6X9 | 18 | 10X14 | 42 |

1. ALL DIMENSIONS ARE IN INCHES
2. TWO COMPARTMENT MID-DEPTH
3. STEEL REINFORCEMENT: A.S.T.M. A496-A615 GRADE 60-60 KSI
4. JOINTS SEALED WITH ASPHALT CEMENT OR EQUAL
5. CONCRETE: 4000 PSI @ 28 DAYS, 5%-9% AIR ENTRAINMENT
6. EQUIPPED WITH POLYLOK SEALS
7. DESIGN LOADING A-0.3/300 PSI – WALKWAYS, FLOTATION FORCES NOT ACCOUNTED FOR
8. MAX. COVER OVER TANK: 3' OF EARTH FILL
9. MIN 1" CONCRETE COVER OVER REINFORCEMENT
10. TANK TO CONFORM WITH ASTM C1227

## DISTRIBUTION BOX DETAIL (GRAVITY)

(NOT TO SCALE)

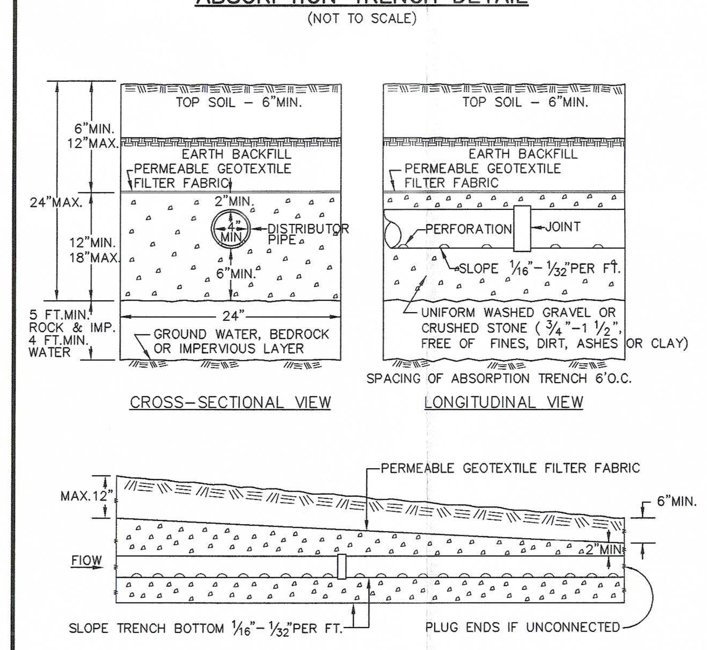



NYSDOH NOTES:

1. PIPE JOINTS TO BE SEALED WITH ASPHALTIC MATERIAL OR EQUIVALENT.
2. INVERT ELEVATIONS OF ALL OUTLET PIPES MUST BE EQUAL. USE OF FLOW EQUALIZATION DEVICES IS RECOMMENDED.
3. THE PIPE FROM THE SEPTIC TANK TO THE DISTRIBUTION BOX INLET, SLOPED AT LEAST 1/8" PER FOOT – GRAVITY.
4. THE SLOPE OF OUTLET PIPES (HEADER PIPES) BETWEEN THE DISTRIBUTION BOX AND DISTRIBUTOR LATERALS SHOULD BE AT LEAST 1/32" PER FOOT.
5. BAFFLE REQUIRED FOR SIPHON OR AUTOMATIC DOSING OR IF INLET PIPE SLOPE EXCEEDS 1/2" PER FOOT.
6. BAFFLE CAN BE BUILT IN OR A PIPE ELBOW OR TEE ("T").
7. THE BOXES SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.

## ABSORPTION TRENCH DETAIL

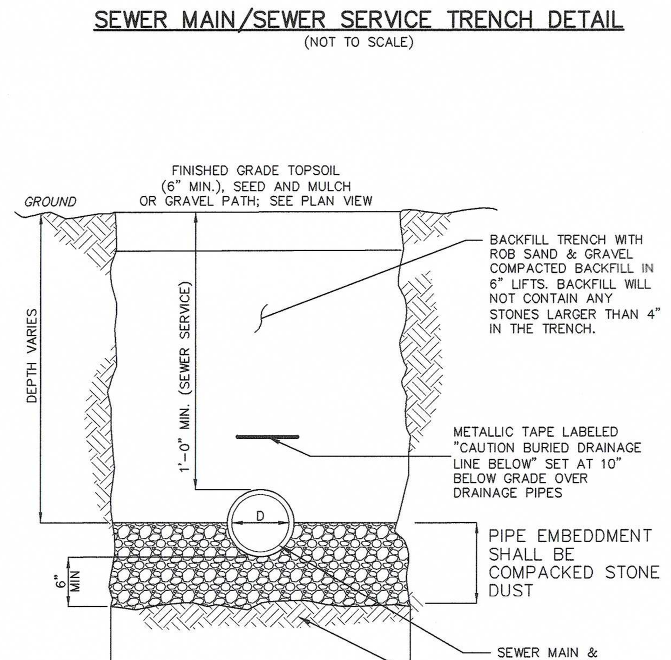
(NOT TO SCALE)




ALL PERFORATED PIPES SHALL MEET ASTM STANDARDS FOR SEPTIC SYSTEMS

## SEWER MAIN/SEWER SERVICE TRENCH DETAIL

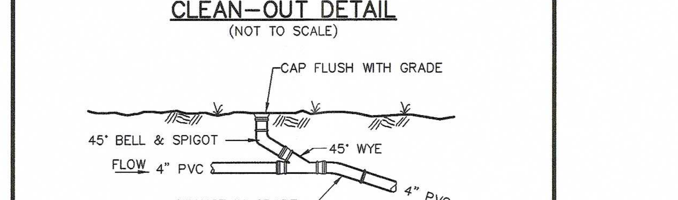
(NOT TO SCALE)




NOTES:
1. NO ROCK IS TO PROJECT INTO WITHIN THE EDGES OF THE TRENCH. IN ROCK EXCAVATION PIPE SHALL BE A MIN. OF 6" OVER AND AWAY FROM ROCK.
2. BACKFILL SHALL BE PLACED SO AS TO NOT DISTURB THE PIPE ALIGNMENT.

## CLEAN-OUT DETAIL

(NOT TO SCALE)

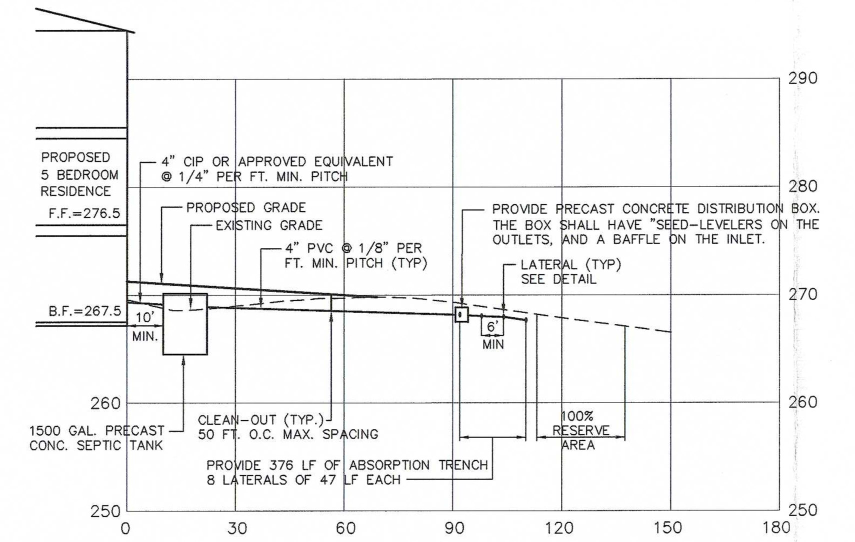



## SOILS LEGEND

| Map Symbol | Hydrologic Group | Soil Name |
|---|---|---|
| ChB | B | CHARLTON loam, 2–8% Slopes |
| ChC | B | CHARLTON loam, 8–15% Slopes |
| Ff | B/D | FLUVAQUENTS–UDIFLUVENTS complex, frequently flooded |
| RdB | C | RIDGEBURY loam, 3–8% Slopes |
| SuB | B | SUTTON loam, 3–8% Slopes |
| Ub | - | UDORTHENTS, smoothed |

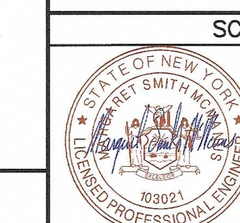
= Soil delineation (boundary) lines

Soils classifications and delineated lines have been derived from U.S. Department of Agriculture, Soil Conservation Service "Soil Survey of Putnam & Westchester Counties, New York" issued September 1994.




**SECTION A–A' THRU SYSTEM**

HORIZONTAL SCALE 1" = 30'
VERTICAL SCALE 1" = 10'



DRAWING NAME: SD21592_R02_V17 LAYOUT: SHEET 1 OF 1 W.O. NO. 21592, 25863 CHECKED BY MSM DRAWN BY MJC