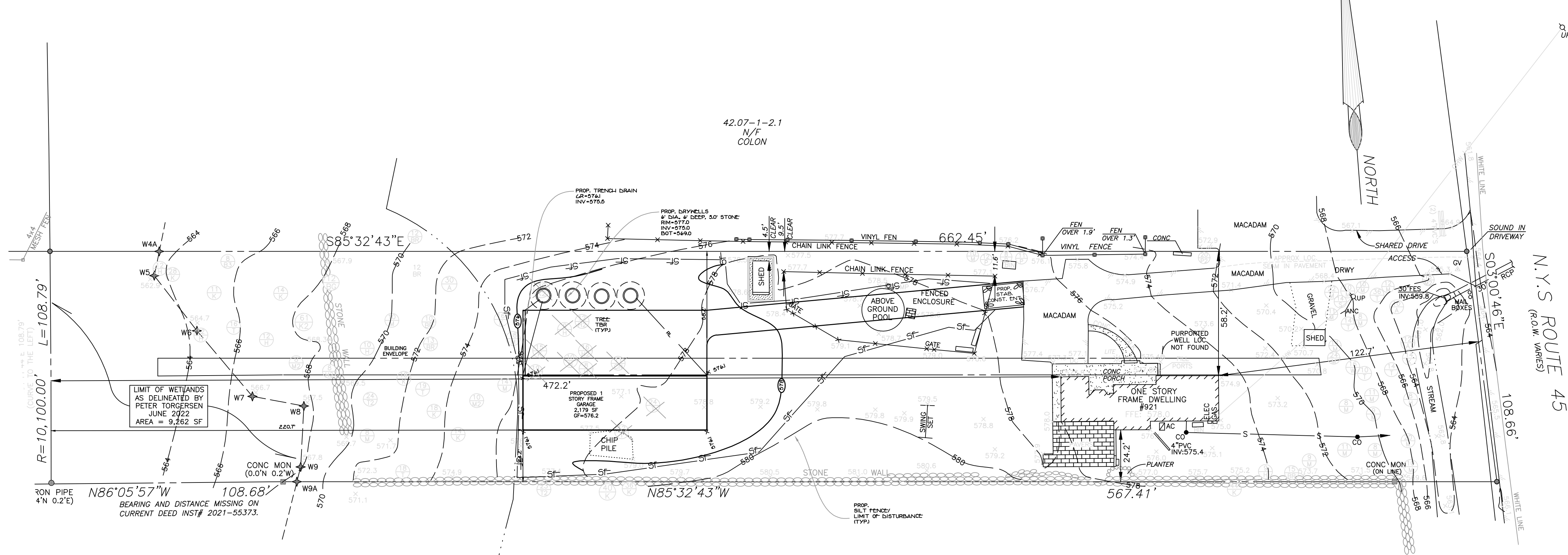


REFERENCES:

- ALL BOUNDARY & TOPOGRAPHY INFORMATION IS REFERENCED FROM A SURVEY PREPARED BY JAY A. GREENWELL, PLS, DATED JUNE 9, 2022.
- DEEDS ON FILE IN THE ROCKLAND COUNTY CLERK'S OFFICE AS FOLLOWS: LIBER 1036 PAGE 6, INST# 2005-71834, INST# 2021-55373, L915 P248, INST# 2002-29784, L858 P952, INST# 2018-25947
- NEW YORK STATE ACQUISITION MAP 88 PARCEL 101, DATED MARCH 28, 1969.

- GENERAL NOTES:**
1. ADDITIONAL SOIL TESTING IS REQUIRED FOR THE PROPOSED INFILTRATION FACILITY.
 2. ANY WALLS GREATER THAN 4 FEET IN HEIGHT MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER.
 3. THE VILLAGE ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO DRAINAGE INSTALLATION. THE INSTALLATION MUST BE WITNESSED/APPROVED BY THE VILLAGE ENGINEER.



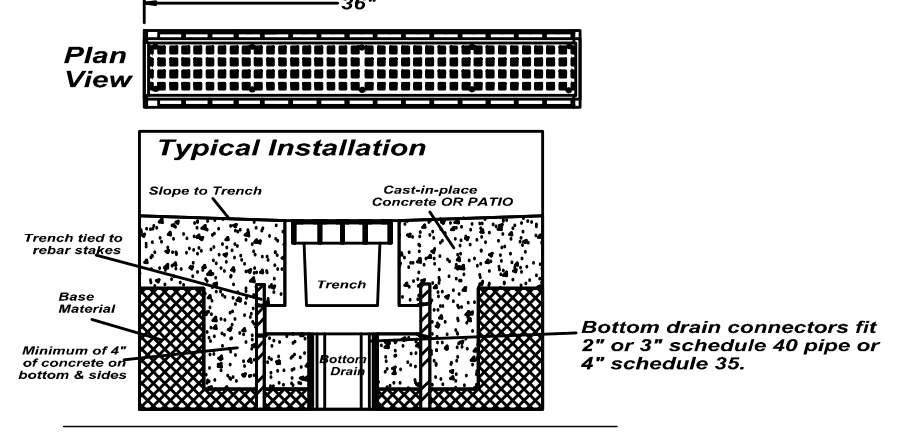
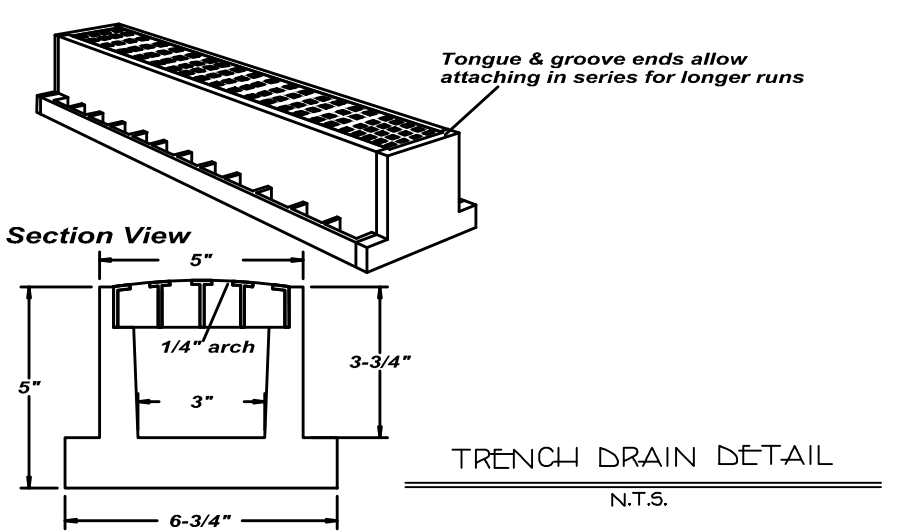
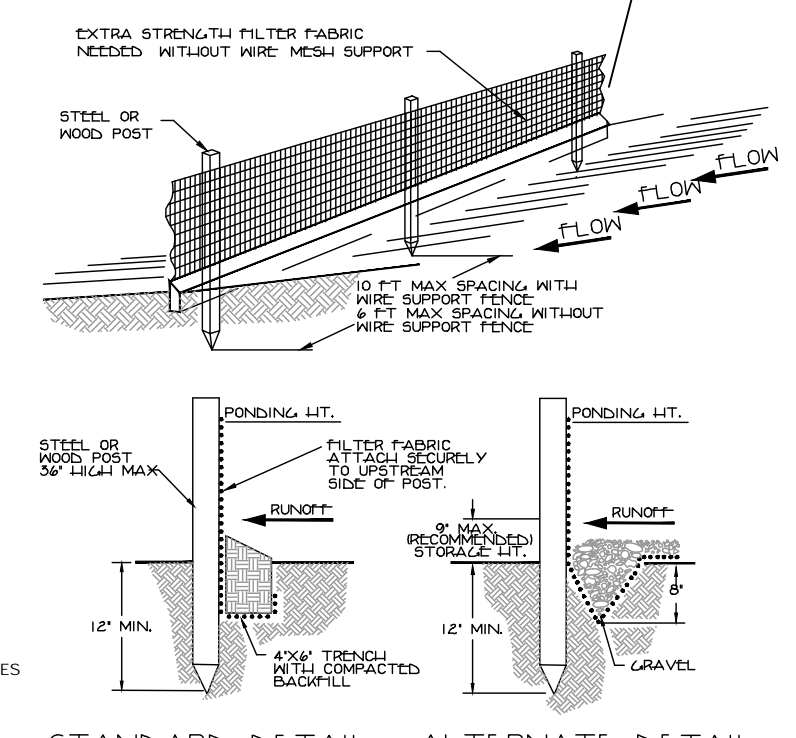
Drywell Design:
Soils: Wetherfield "C"

Development size =	0.1522 Acre
Undeveloped SCS Curve No =	74.0000
Developed SCS Curve No =	98.0000

1. **Select Design Storm**
100 year, 24-hour = 9.3000
2. **Type of subsurface disposal system:**
Precast drywell with 3-3/4" crushed stone
3. **Determine Percolation Rate:**
Percolation Rate:
Drop = 1.0000 inches
Time = 30.0000 minutes
a. **Area of Percolation (Ap):**
Surface area of Cylinder
Ac = Pi*D*Hag = 1.0000 foot
D = 8.5000 inches
Bottom Area
Ab = Pi*r^2 = 2.2283 Ft^2
Ad = 0.7854 Ft^2
Volume of Percolation
Ap = Ac + Ab = 3.0107 Ft^2
Vp = Ab*h = 0.0654 Ft^3
Soil Percolation Rate
Sr = volume/area/time = 0.0007 Ft^3/Ft^2/Min.
Sr = 1.0435 Ft^3/Ft^2/day
Sr = (minus clogging factor of 25%) = 0.7826 Ft^3/Ft^2/day
4. **Calculate Required Storage Volume:**
100yr, 24 hour rainfall = 9.3000 inches
From Table 2-1 of TR-55
Existing C1 = 74.0000 therefore depth V1 = 6.11 inches
Proposed C1 = 98.0000 therefore depth V2 = 9.10 inches
Delta V = 2.9900 inches
Vs = Delta V * Area = 1651.9750 Ft^3
5. **Calculate Volume per Drywell:**
Vw = Pi*r^2*height = 3.0000 feet
Thickness of Stone = 0.3330 foot
Thickness of drywell wall = 6.0000 feet
Diameter of drywell = 6.0000 feet
Height of drywell = 337.6500 Ft^3
6. **Calculate 24-hour percolation volume per drywell (Vp):**
Vp = side surface area of drywell * soil percolation rate (Sr)
Vp = Pi*D*H*Sr = 98.6083 Ft^3/day/drywell
*Note: Bottom of drywell not included
7. **Calculate the total 24-hour Volume per drywell (Vt):**
Vt = Volume of drywell (Vw) + percolation volume (Vp)
Vt = 436.2583 Ft^3
8. **Determine number of drywells required (DW):**
DW = Req. Volume of Storage (Vs) / Total Vol. per Drywell (Vt) = 3.8
DW = **4**

STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
1. STONE SIZE - USE 1-4 INCH STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN 50 FEET.
 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. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO LAYING 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 BEAM 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 TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.



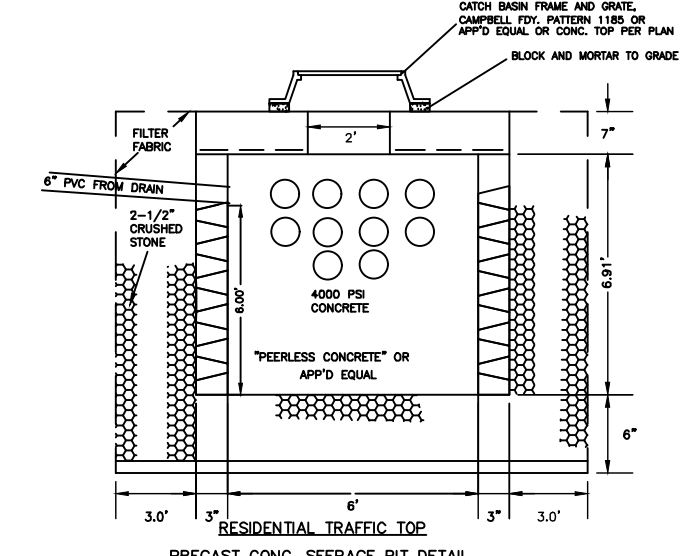
TREE LEGEND

12 - SIZE IN INCHES (LARGEST DIA SHOWN IN TWIN/TRIPLE)
K2 - LETTER INDICATES TREE TYPE (SEE BELOW)
SECOND NUMBER (2), (3) INDICATES TWIN/TRIPLE

A = ASH	K = OAK
B = BEECH	M = MAPLE
BR = BIRCH	P = PINE
BG = BLACK GUM	S = SASSAFRAS
CN = CHESTNUT	T = TULIP
H = HICKORY	W = WALNUT

LEGEND

DRAINAGE INLET W/PIPES	DMH
DRAIN MANHOLE/ WITH PIPES	TCBB
TOP CURB @ CATCH BASIN	TGFI
TOP GRATE FIELD INLET	RCP
REINFORCED CONCRETE PIPE	CPP
CORRUGATED PLASTIC PIPE	UP
UTILITY POLE WITH LIGHT	HW
WATER VALVE	HYD
HYDRANT	GV
GAS VALVE	ICV
IRRIGATION CONTROL VALVE	OHV
OVERHEAD WIRES	GTC
GAS LINE	W
GAS, ELEC, TEL, CATV	-520-
WATER LINE	
CONTOUR LINE	
SPOT GRADE	
WETLAND BOUNDARY	



- NOTES:**
1. SET OUT IN PLACE PERMANENT BOUNDARY MARKERS WITH ALL OWNERS AND ADJACENT OWNERS PRESENT. THE BOUNDARY SHALL BE VERIFIED BY SURVEY AND A SURVEY REPORT SHALL BE PROVIDED TO THE VILLAGE ENGINEER. THE BOUNDARY SHALL BE VERIFIED BY SURVEY AND A SURVEY REPORT SHALL BE PROVIDED TO THE VILLAGE ENGINEER.
 2. THE BOUNDARY SHALL BE VERIFIED BY SURVEY AND A SURVEY REPORT SHALL BE PROVIDED TO THE VILLAGE ENGINEER.
- SEWERAGE FIT MAINTENANCE NOTES:**
1. SEWERAGE FITS SHALL BE MAINTAINED BY THE OWNER OF THE LOTS ON WHICH THEY ARE LOCATED.
 2. SEWERAGE FITS SHALL BE MAINTAINED BY THE OWNER OF THE LOTS ON WHICH THEY ARE LOCATED.

VILLAGE OF NEW HEMPSTEAD BULK REQUIREMENTS
ZONE 1-R50
SINGLE FAMILY DWELLING (EXISTING NON-CONFORMING)

	MINIMUM LOT AREA (SF)	MINIMUM FRONTAGE (FT)	MINIMUM LOT WIDTH (FT)	FRONT YARD (FT)	SIDE YARD (FT)	TOTAL SIDE YARD (FT)	REAR YARD (FT)	MAXIMUM IMPERVIOUS SURFACE RATIO	MAXIMUM BLDG. COVERAGE (SF)	MAXIMUM BUILDING HEIGHT (STORIES/FT)
RECD.	50,000	100	175.0	50	30	75	50	0.20	3,750	2.0/55/15/ACCI
EXIST.	72,151	108.7	185.7	122.7	24.2**	82.4	472.2	0.11	1,463	NA
PROD.	72,151	108.7	185.7	122.7	24.2**	82.4	220.7	0.20	3,699	2 / 35 PER ARCH.

- ** PRE-EXISTING
- *** SPECIAL PERMIT OF VILLAGE BOARD REQUIRED FOR ACCESSORY USE OVER 1000 SF CHAPT. 290-28 (L2).
- * VARIANCE REQUIRE FOR EXPANSION OF A NON-CONFORMING CHAPT. 290-12

IMPERVIOUS COVERAGE:
DWELLING = 1,463 SF
DRIVEWAY & WALK = 5,544 SF
SLEDS = 329 SF
POOL PATIO & CO = 337 SF
PROP. DRIVEWAY = 2,236 SF
TOTAL = 14,303 SF
CCOV = 14,303 SF / 72,151 SF = 0.200 = 20.0%

REVISIONS

2	12/15/22	REVISE
1	10/26/22	REVISE PER OWNER

PLOT PLAN FOR SPIRA
42.07-1-3
LOCATED IN THE VILLAGE OF NEW HEMPSTEAD ROCKLAND COUNTY, NEW YORK

GRAPHIC SCALE
0 10 20 30 40 50

PAUL GDANSKI, PE, PLLC
633 WOODMONT LANE
SLOATSBURG, N.Y. 10974
TEL: (917) 418-0999

92IRT45
SEPT. 28, 2022
SCALE
1" = 30'
1 OF 1

