TAX SECTION 60.09 BLOCK 1 LOT 4

REFERENCES:

ALL BOUNDARY INFORMATION IS REFERENCED FROM A SURVEY PREPARED BY ANTHONY R. CELENTANO, PLS DATED JULY 9, 2020 & TOPOGRAPHY DATED 9-8-21.

NOTES:

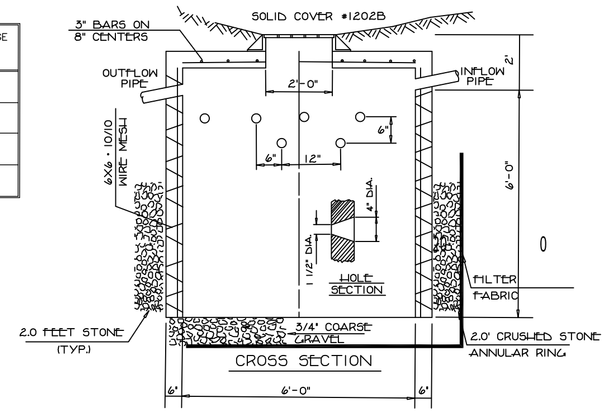
1. SITE PLAN IS GOOD FOR 3 YEAR TIME PERIOD FROM DATE OF APPROVAL.
2. APPLICANT/OWNER:
   BOUZAKIS
   600 PALMER DRIVE
   NYACK, NY
3. INFILTRATION RATE TO BE VERIFIED AT TIME OF CONSTRUCTION. DESIGN TO BE CHANGED AS NECESSARY. RATES WILL BE VERIFIED, DONE IN ACCORDANCE WITH THE TEST PROCEDURE OF THE NYSSMDM, AT THE TIME OF CONSTRUCTION TO VERIFY THE ASSUMED RATE USED IN THE DESIGN. THE DESIGN SHALL BE MODIFIED AS NECESSARY BASED ON THE TEST RESULTS.
4. NO POOL BACKWASH TO BE USED. A CARTRIDGE FILTER SYSTEM TO BE UTILIZED.
5. NO TREES ARE TO BE REMOVED.
6. EXCAVATED MATERIAL WILL BE REMOVED FROM SITE.
7. POOL CONTRACTOR TO INCORPORATE GROUNDWATER RELIEF MEASURES AS NECESSARY BUT NOT LIMITED TO UNDERDRAIN AROUND POOL INTO PUMPING SYSTEM.
8. AS THE POOL IS SEMI-INGROUND, A PORTION OF THE POOL IS ABOVE GROUND.
9. SLOTTED DRAIN TO BE CONTINUOUS UNDER DECK.
10. INFILTRATION TESTING SHALL BE DONE AT THE BOTTOM OF THE PRACTICE PRIOR TO INSTALLATION.
11. ANY EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
12. EXISTING SHED TO BE RELOCATED OUT OF EASEMENT.

RESIDENCE ZONE R-3

	MINIMUM LOT AREA	STREET FRONT. (FEET)	FRONT SETBACK (FEET)	SIDE SETBACK (FEET)	REAR SETBACK (FEET)	LIVABLE FLOOR AREA (1ST FLOOR)	LIVABLE FLOOR AREA (2ND FLOOR)	MAXIMUM BLDG. HEIGHT	MAX. COVERAGE BY BLDG. & STRUCTURES	MAX. COVERAGE BY PRIMARY BUILDING
REQ'D	20,000 SQ. FT.	100	35	25	25	800 SF	750 SF	35 FEET	25%	12&
EXIST.	20,462 SQ. FT.	159.2	18.8*	25.3 HSE.	84.8DECK	NA	NA	<35 FEET	18.5%	9.5%
PRO'D	20,462 SQ. FT.	159.2	18.8*	25.3 HSE. 27.0/47.4 POOL	84.8DECK 66.2 POOL	NA	NA	<35 FEET	23.1%	9.5%
NET	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	4.6%	NONE

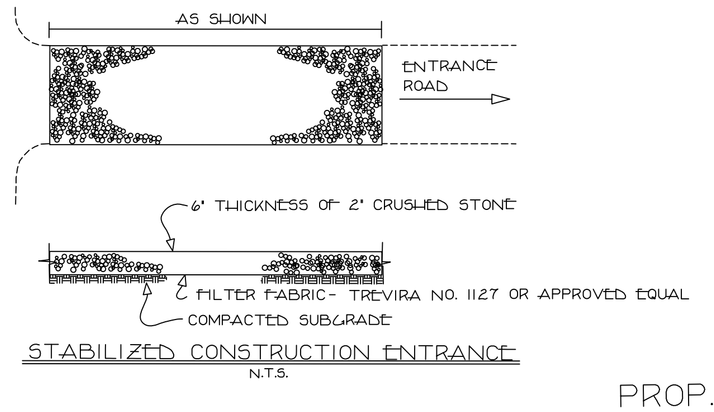
* PRE-EXISTING

DEVELOPMENT COVERAGE
EX. WALK & DRIVE = 1,365 SF
EX. HOUSE & SHED = 1,950 +101=2,051 SF
EX. DECK=364 SF
PRO. POOL & EQUIP. PAD = 321 SF
PRO. POOL PATIO = 631 SF
TOTAL 4,732 SF
PROPOSED DEV. COVERAGE= 4,732/20,462=0.231%



DETENTION BASIN DRYWELL

NTS



STABILIZED CONSTRUCTION ENTRANCE

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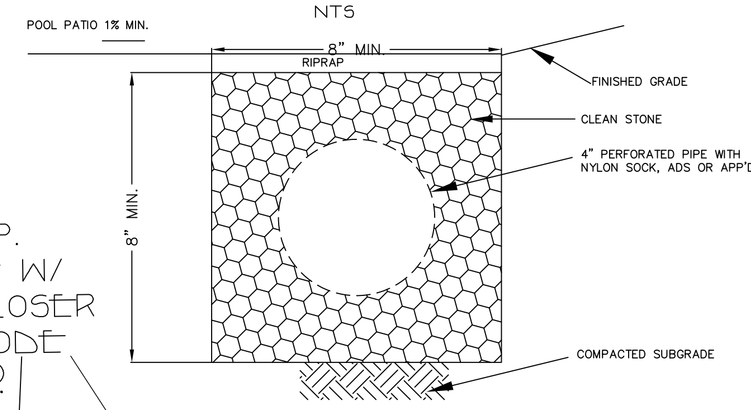
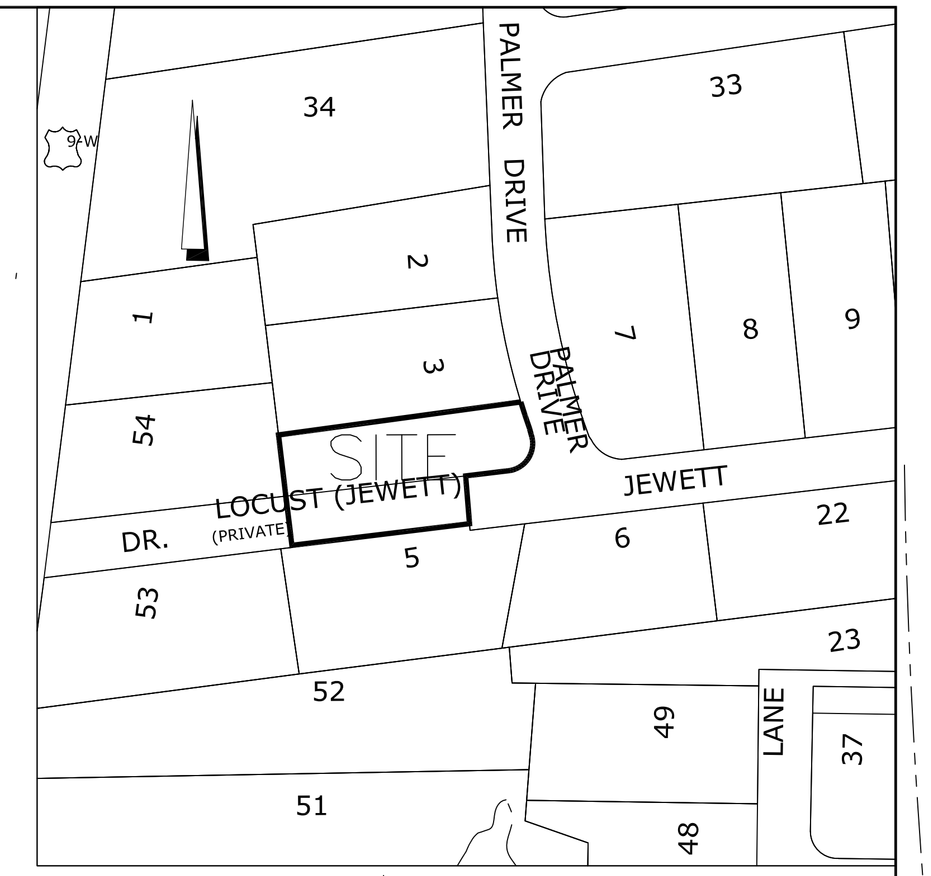


4" PERIMETER DRAIN

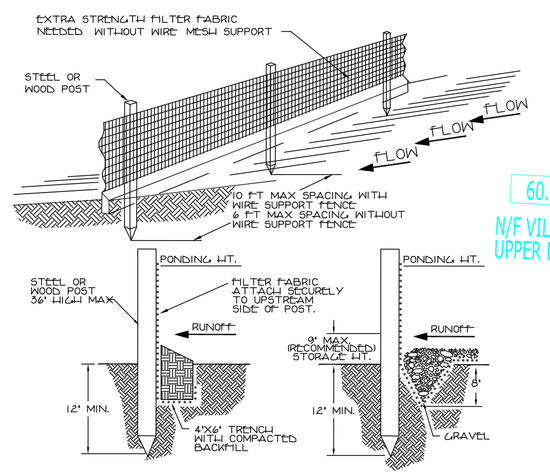
Drywell Design:

Development size =	0.0219 Acre	
Undeveloped SCS Curve No.=	74.0000	
Developed SCS Curve No.=	98.0000	
1. Select Design Storm		
100 year, 24-hour	5.3000	
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*Dhavg		
D=	1.0000 foot	
havg=	5.5000 inches	
Ac=	2.2253 FT^2	
Bottom Area		
Ab=PI*r^2		
Ab=	0.7854 FT^2	
Volume of Percolation:		
Ap=Ac+Ab		
Ap=	3.0107 FT^2	
Vp=Kb*h	0.0654 FT^3	
Soil Percolation Rate		
Si=volume/area/time	0.0007 FT^3/FT^2/Min.	
Si=	1.0435 FT^3/FT^2/day	
Si=(minus clogging factor of 25%)	0.7826 FT^3/FT^2/day	
4. Calculate Required Storage Volume:		
100yr, 24 hour rainfall=	5.3000 inches	
From Table 2-1 of TR-55		
Existing CN=	74.0000 therefore depth Vr=	6.11 Inches
Proposed CN=	98.0000 therefore depth Vr=	9.10 Inches
DeltaVr=	2.9900 Inches	
Vs=(delta)*Area		
Vs=	237.2067 FT^3	
5. Calculate Volume per Drywell:		
Vw=PI*r^2*height		
Thickness of Stone=	2.0000 feet	
Thickness of drywell wall=	0.5000 foot	
Diameter of drywell=	6.0000 feet	
Height of drywell=	6.0000 feet	
Vw= (40% void ratio used for stone)	238.4469 FT^3	
6. Calculate 24-hour percolation volume per drywell(Vp):		
Vp=bottom surface area of drywell*soil percolation rate(Si)		
Vp=PI*R^2*Si		
Vp=	74.3738 FT^3/day/drywell	
*Note: Bottom of drywell only included		
7. Calculate the total 24-hour Volume per drywell (Vt):		
Vt=Volume of drywell(Vw)+percolation volume(Vp)		
Vt=	312.8207 FT^3	
8. Determine number of drywells required (DWr):		
DWr=Req. Volume of Storage(Vs)/Total Vol. per Drywell(Vt)	0.8	
DWr=		
	USE	1



KEY MAP

SCALE: 1"=100'



STANDARD DETAIL — TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL — TRENCH WITH GRAVEL

NOTE:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE

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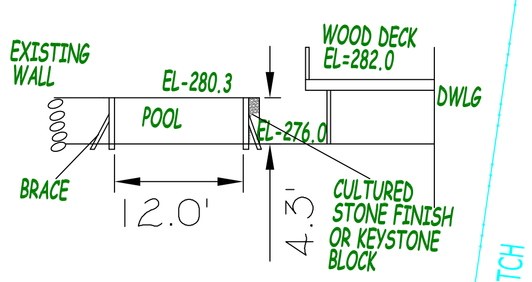
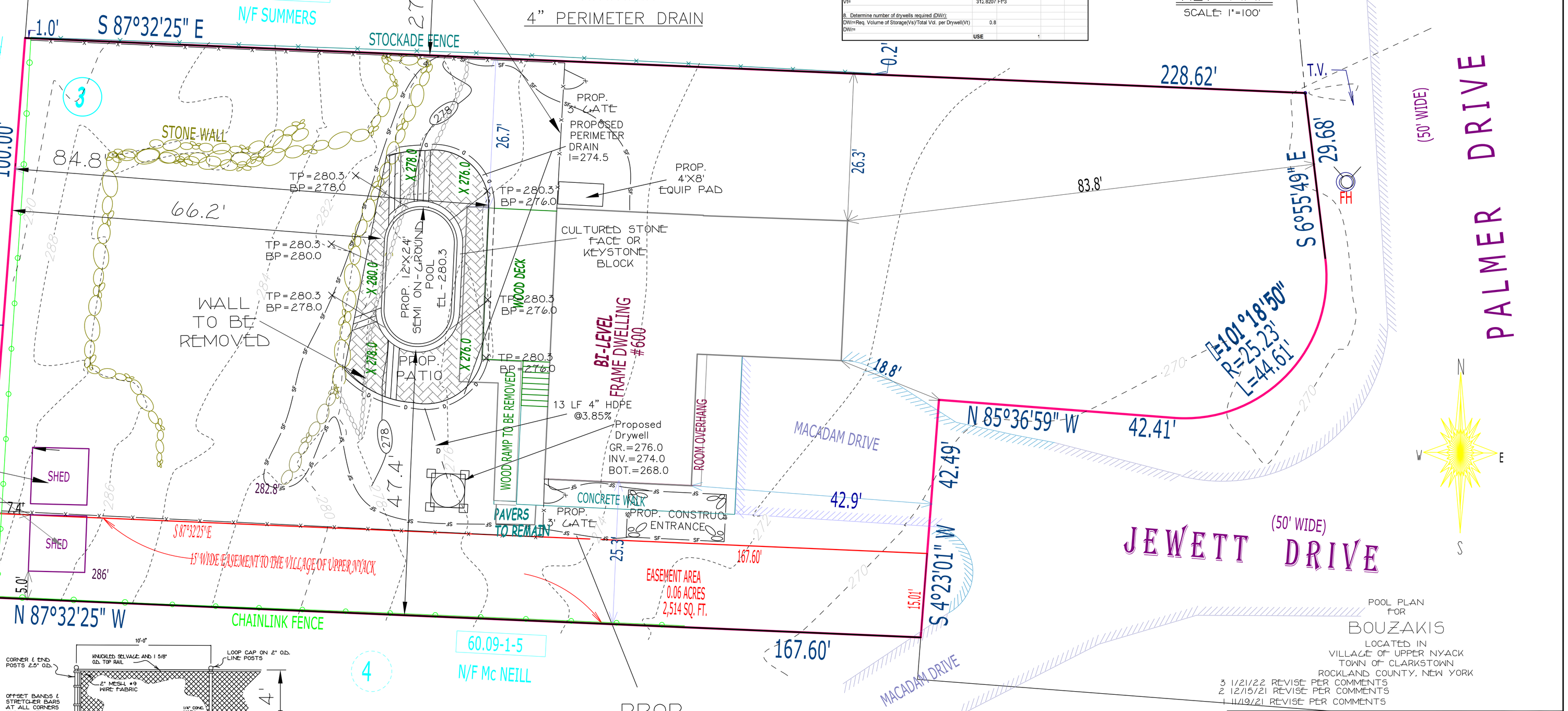


POOL CROSS-SECTION

SCALE: 1"=10'



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PAUL GDANSKI, P.E. LICENSED PROFESSIONAL ENGINEER NO. 075847

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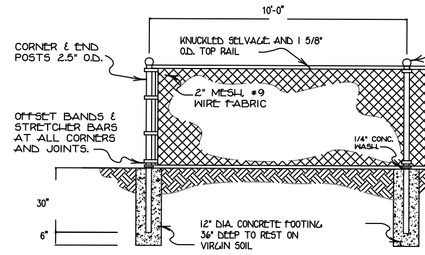

CHAIN LINK FENCE

N.T.S.

POOL PLAN FOR

BOUZAKIS

LOCATED IN
VILLAGE OF UPPER NYACK
TOWN OF CLARKSTOWN
ROCKLAND COUNTY, NEW YORK

3 1/21/22 REVISE PER COMMENTS
2 12/15/21 REVISE PER COMMENTS
1 11/19/21 REVISE PER COMMENTS

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FILE #	600PAL
DATE	9/29/21
SCALE	1"=10'