



**TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS**

PROJECT NAME: TARBEN II SUBDIVISION
PROJECT NO.: 2021-18
PROJECT LOCATION: SECTION 127, BLOCK 1, LOT 12
REVIEW DATE: 12 JULY 2024
MEETING DATE: 18 JULY 2024
PROJECT REPRESENTATIVE: JOHNATHAN CELLA, P.E.

1. The applicant's representative have provided a Tree Preservation Plan. The Tree Preservation Plan should note the consultant that prepared the Tree Preservation Plan in accordance with the ordinance. Noted, the Tree Preservation Plan was performed only in the areas of disturbance on the new lot, Lot #11. Trees to remain within the limits of disturbance should have the appropriate tree protection detail added to the plans.
2. An emergency vehicle turn-around has been designed for the existing structure on Lot #12.
3. The building envelope on Lot #11 has been revised to the point where the lot has minimum lot width. The Highway Superintendents comments on the driveway location should be received.
4. The project requires a Public Hearing, which can be scheduled after a SEQRA determination is made.

Respectfully submitted,

MHE Engineering, D.P.C.

A handwritten signature in blue ink that reads 'Patrick J. Hines'.

Patrick J. Hines
Principal
PJH/kbw

NEW YORK OFFICE

33 Airport Center Drive, Suite 202, New Windsor, NY 12553
845-567-3100 | F: 845-567-3232 | mheny@mhepc.com

PENNSYLVANIA OFFICE

111 Wheatfield Drive, Suite 1, Milford, PA 18337
570-296-2765 | F: 570-296-2767 | mhepa@mhepc.com

July 1, 2024

Town of Newburgh Planning Board
Mr. John Ewasutyn and Members of the Planning Board
21 Hudson Valley Professional Plaza, Newburgh, New York 12550

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MHE Engineering, D.P.C.

c/o: Mr. Pat Hines
McGoey, Hauser, & Edsall Consulting Engineers, DPC
33 Airport Center Drive, Suite 202, New York 12553

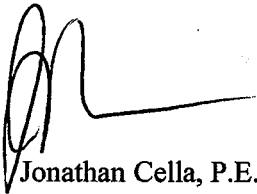
Re.: **Proposed Two (2) Lot Residential Subdivision for Lynn Warren
Tarben Way, Lot 12 Filed Map 274.16 (S/B/L: 127-1-2)
Town of Newburgh Planning Board Application # 21-18**

Chairman Ewasutyn and Members of the Planning Board

For the above referenced residential subdivision in the Town of Newburgh please find the following enclosed project plans six (6) sheets last revised June 28, 2024 and cover letter dated July 1, 2024.

At this time we respectfully request that the above referenced application be placed on the next available Planning Board agenda. Please do not hesitate to contact me with any questions and/or concerns related to this matter. Thank you.

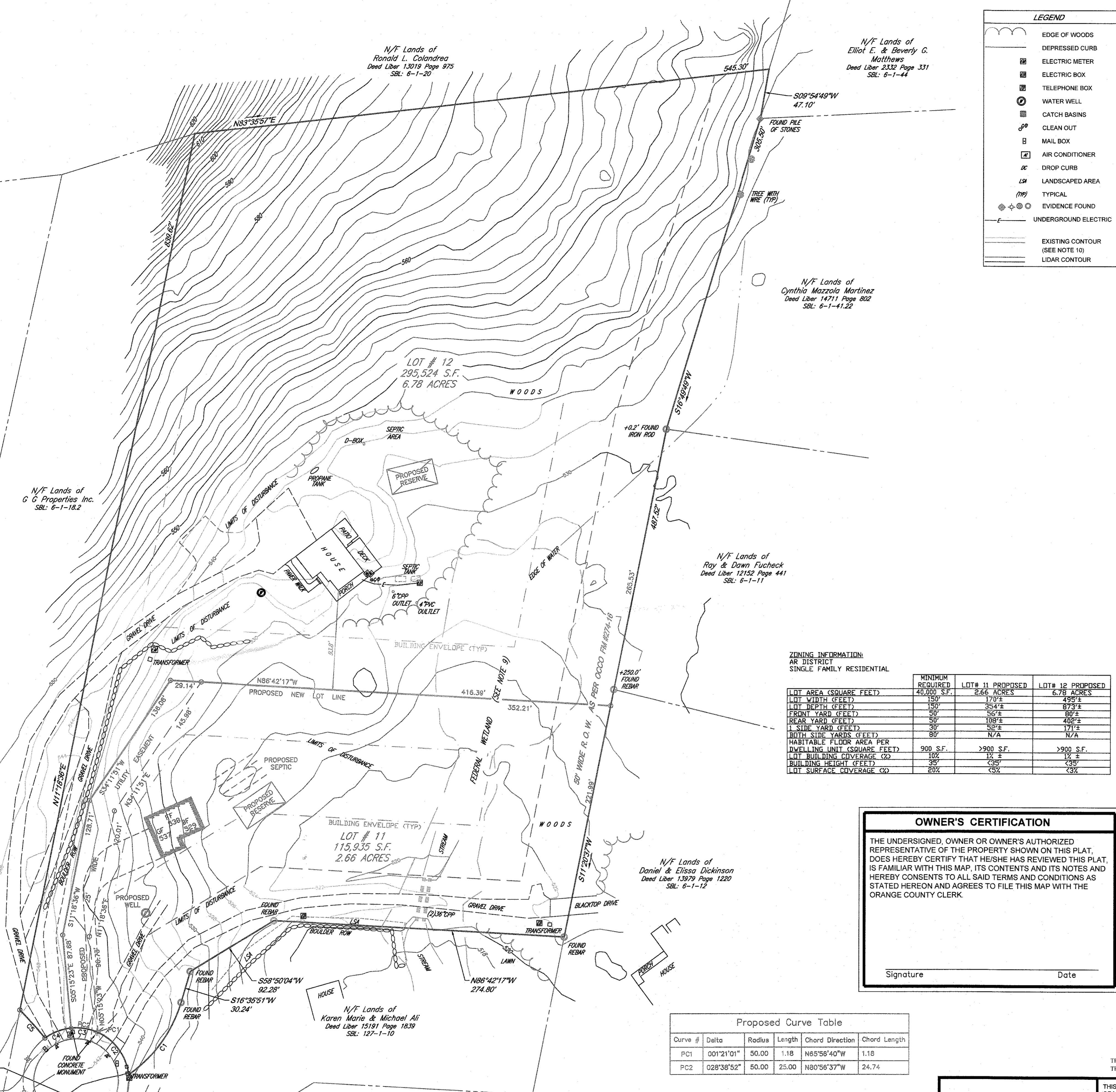
Sincerely:



Jonathan Cella, P.E.
51 Hunt Road, Walkill, New York 12589
845-741-0363 -- jonathancellahotmail.com

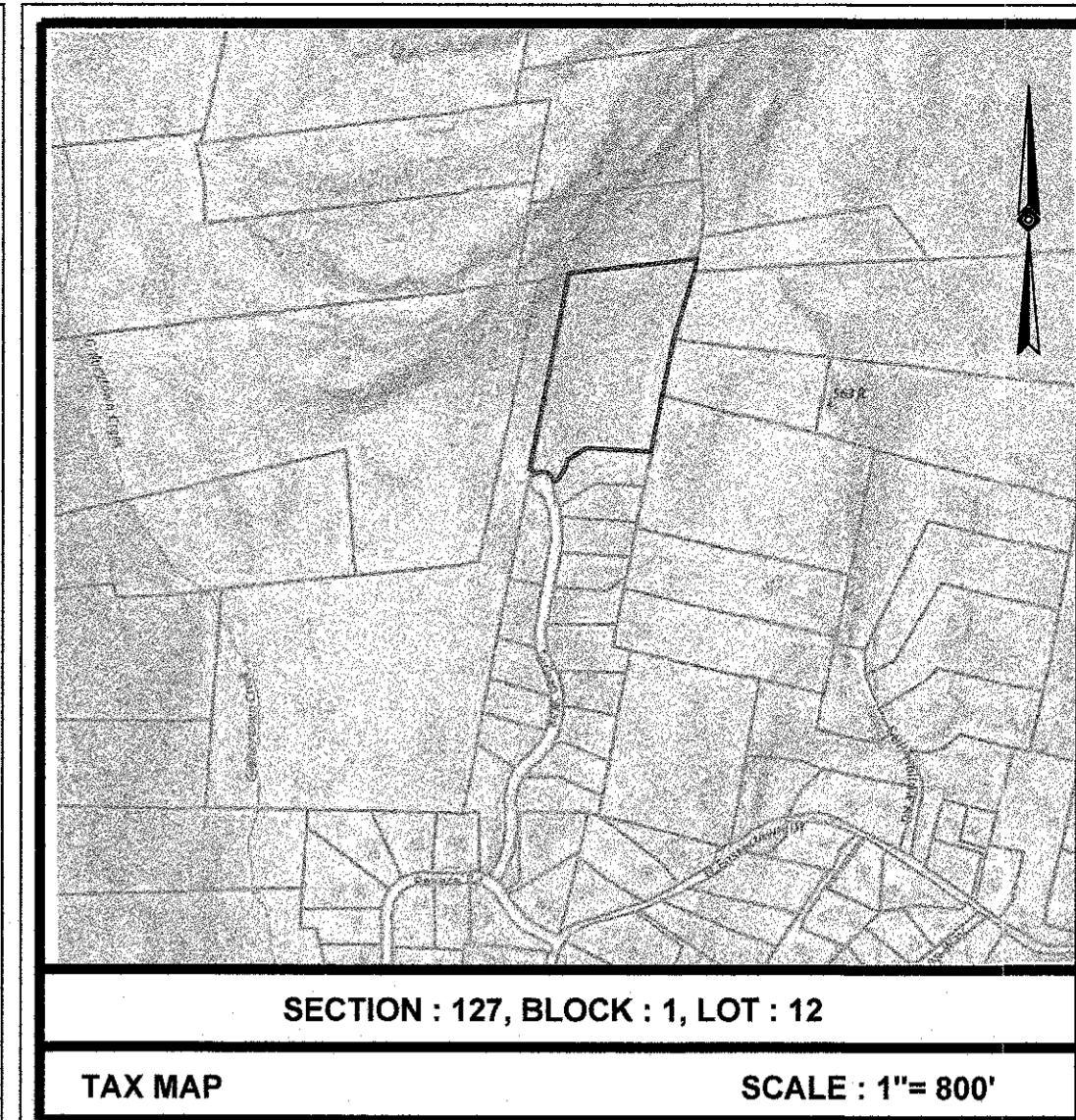
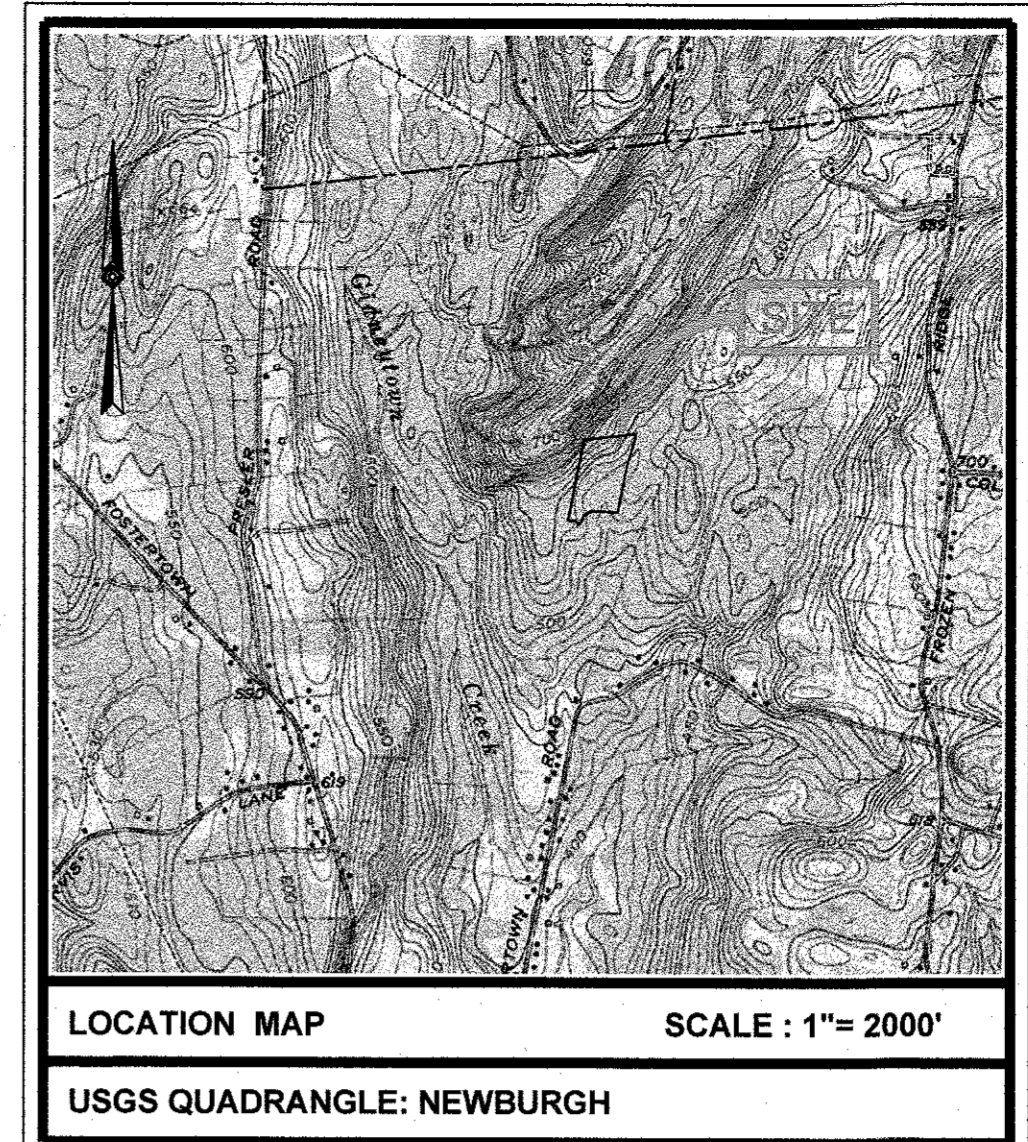
NAD 1983
N.Y. East State Plane Coordinate System

TARBEN WAY
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)



LEGEND

- EDGE OF WOODS
- DEPRESSED CURB
- ELECTRIC METER
- ELECTRIC BOX
- TELEPHONE BOX
- WATER WELL
- CATCH BASINS
- CLEAN OUT
- MAIL BOX
- AIR CONDITIONER
- DROP CURB
- LANDSCAPED AREA
- TYPICAL
- EVIDENCE FOUND
- UNDERGROUND ELECTRIC
- EXISTING CONTOUR (SEE NOTE 10)
- LIDAR CONTOUR



TOTAL AREA : 9.44 ACRES

AGRICULTURAL NOTES

This Property is in an agriculturally zoned district, it does have active farming operations in the vicinity. Be advised of the following:

- That farming does not only occur between 8:00am and 5:00pm and is dependent upon "Mother Nature". Residents should be aware of noise from agricultural machinery being operated in nearby fields in both early morning and evening hours and noise from crop-drying fans which are run 24 hours a day during the harvesting season.
- That the roads leading to and from the subdivision are frequently traveled by farmers and their slow moving farm vehicles and equipment.
- That farm neighbors very often spray their crops with pesticides in accordance with accepted practices regulated by the New York State Department of Environmental Conservation (D.E.C. Notification Law Number 325, October 1985).
- That existing agricultural operations may create both unavoidable odors and unpleasantness commonly associated with farming operations in the area.
- That there are dangers in letting children and pets roam into any adjacent agricultural field, which is private property.

ORANGE COUNTY DEPARTMENT OF HEALTH APPROVAL
ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN ACCEPTANCE MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.

ZONING INFORMATION:
AR DISTRICT
SINGLE FAMILY RESIDENTIAL

	MINIMUM REQUIRED	LOT# 11 PROPOSED	LOT# 12 PROPOSED
LOT AREA (SQUARE FEET)	40,000 S.F.	2,666 ACRES	6,78 ACRES
LOT WIDTH (FEET)	150'	170'±	495'±
LOT DEPTH (FEET)	150'	35'±	873'±
FRONT YARD (FEET)	50'	35'±	80'±
REAR YARD (FEET)	50'	108'±	402'±
L SIDE YARD (FEET)	30'	52'±	171'±
BOTH SIDE YARDS (FEET)	80'	N/A	N/A
HABITABLE FLOOR AREA PER DWELLING UNIT (SQUARE FEET)	900 S.F.	>900 S.F.	>900 S.F.
LOT BUILDING COVERAGE (%)	10%	17%	17%
BUILDING HEIGHT (FEET)	35'	25'	35'
LOT SURFACE COVERAGE (%)	20%	25%	23%

OWNER'S CERTIFICATION

THE UNDERSIGNED, OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE OF THE PROPERTY SHOWN ON THIS PLAT, DOES HEREBY CERTIFY THAT HE/SHE HAS REVIEWED THIS PLAT, IS FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS NOTES AND HEREBY CONSENTS TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND AGREES TO FILE THIS MAP WITH THE ORANGE COUNTY CLERK.

Signature _____ Date _____

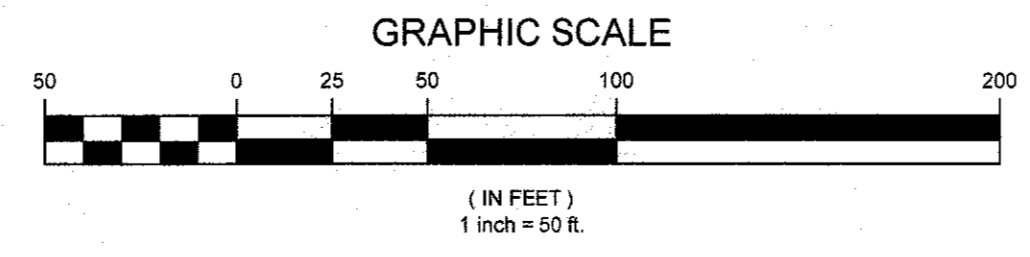
PLANNING BOARD ENDORSEMENT

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF NEWBURGH, SUBJECT TO ALL CONDITIONS AND REQUIREMENTS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT AS APPROVED SHALL VOID THIS APPROVAL.

Chairperson - Town Planning Board _____ Date _____

Proposed Curve Table

Curve #	Delta	Radius	Length	Chord Direction	Chord Length
PC1	001°21'01"	50.00	1.18	N65°58'40"W	1.18
PC2	028°38'52"	50.00	25.00	N80°56'37"W	24.74



Curve Table

Curve #	Delta	Radius	Length	Chord Direction	Chord Length
C1	039°11'10"	125.01	85.49	S36°12'13"W	83.84
C2	060°05'30"	50.00	52.44	N36°34'25"W	50.07
C3	028°38'52"	50.00	25.00	N80°56'37"W	24.74
C4	030°32'18"	50.00	26.65	S69°27'48"W	26.34
C5	005°05'12"	400.09	35.51	N41°54'35"W	35.51

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.

JONATHAN CELLA, P.E.
N.Y.S. P.E. LIC. NO. 085069

PATRICIA PAULI BROOKS, LS
NEW YORK PROFESSIONAL LAND SURVEYOR #49795

- NOTES:**
- UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. BEFORE ANY SITE EVALUATION, PREPARATION OF DESIGN DOCUMENTS OR EXCAVATION IS TO BEGIN, THE LOCATION OF UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE PROPER UTILITY COMPANIES.
 - SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN. IT IS STRONGLY RECOMMENDED THAT A COMPLETE TITLE SEARCH BE PROVIDED TO THE SURVEYOR FOR REVIEW PRIOR TO THE PLACEMENT OF OR ALTERATION TO IMPROVEMENTS ON THE PROPERTY. SUBJECT TO WHATEVER STATE OF FACTS A COMPLETE SEARCH OF TITLE MAY REVEAL.
 - SUBJECT TO ALL RIGHTS OF WAYS, COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.
 - CERTIFICATIONS INDICATED HEREON SIGNIFY THAT THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS. SAID CERTIFICATIONS SHALL RUN ONLY TO THE PARTIES SO NOTED. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS, THEIR SUCCESSORS AND/OR ASSIGNS, OR SUBSEQUENT OWNERS.
 - TARBEN WAY ROAD BOUNDS BASED ON REFERENCE MAP 1.
 - THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
 - SUBJECT TO AND TOGETHER WITH A 50' WIDE EASEMENT FOR ACCESS TO THE LANDS OF YOVANE & GLAS AS PER DEED LIBER 2223 PAGE 957 AND DEED LIBER 2299 PAGE 233.
 - PARCEL CONTAINS FEDERAL WETLANDS SHOWN HEREON BASED ON ORANGE COUNTY CLERK'S OFFICE FILED MAP NO. 274-16, AND IS THEREBY SUBJECT TO ALL REGULATIONS PROMULGATED THEREUNDER.
 - EXISTING CONTOURS BASED ON FIELD SURVEY. 2' LIDAR CONTOURS BASED ON NYS GIS 2013 COUNTY 1 METER DATASET. ELEVATION DATUM IS APPROXIMATE NAVD83 BASED ON RTK/GPS OBSERVATIONS TAKEN AT THE TIME OF THE SURVEY.

REFERENCES:

- PARCEL BEING LOT 12 AS DESIGNATED ON A MAP ENTITLED "LANDS OF TARBEN, INC. 16 LOT SUBDIVISION/LOT LINE CHANGE" FILED WITH THE ORANGE COUNTY CLERK'S OFFICE ON 05 OCTOBER, 2016, AS FILED MAP NO. 274-16 AND IS SUBJECT TO ALL PROVISIONS NOTED THEREON.

REFERENCE DEED: TARBEN, INC. - to - LYNN WARREN
DEED LIBER 15468 PAGE 107
DATED 08 SEPTEMBER, 2023
FILED 13 SEPTEMBER, 2023

RECORD OWNER: LYNN WARREN
1450 ROUTE 300
NEWBURGH, NY 12550

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MHE Engineering, D.P.C.

THE STATE OF NEW YORK REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

SURVEY SHEET

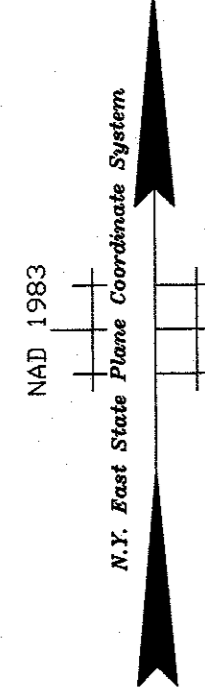
NO.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
FIELD DATE	11-14-23				
FIELD BOOK NO.	HV #8				
FIELD BOOK PG.	25-27				
FIELD CREW	DD/ED				
DRAWN	GIO				
REVIEWED	SD				
APPROVED	PPB				
DATE	6-28-2024				
SCALE	1" = 50'				
FILE NO.	12-230503-00				
DWG. NO.	1 OF 6				

PROPOSED 2 LOT RESIDENTIAL SUBDIVISION
LYNN WARREN
TARBEN WAY
SBL: 127-1-12 TOWN OF NEWBURGH
COUNTY OF ORANGE, STATE OF NEW YORK

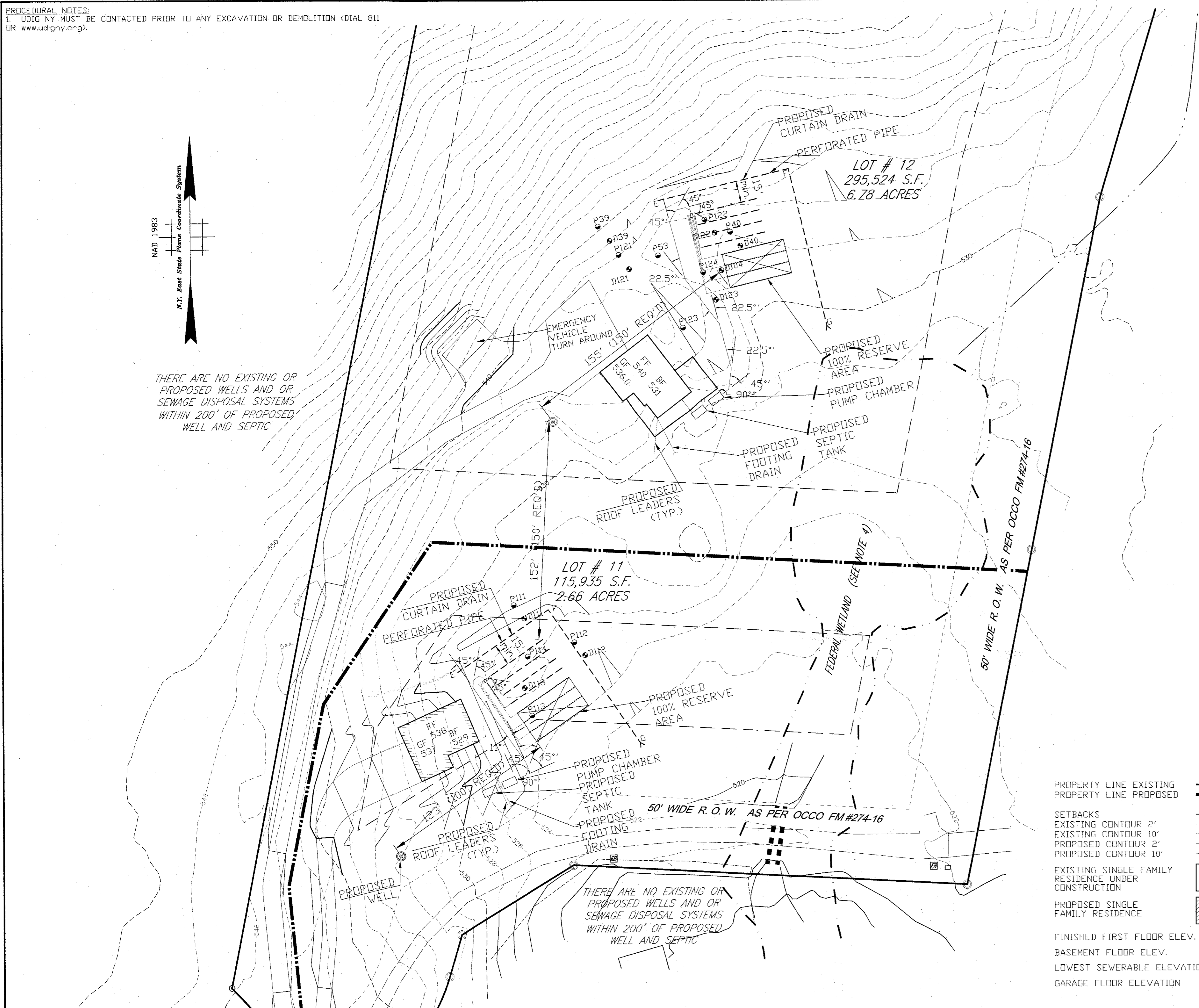
CONTROL POINT ASSOCIATES INC PC
11 MAIN STREET
HIGHLAND, NY 12528
845.691.7339
WWW.CPASURVEY.COM

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR INK SEAL.

PROCEDURAL NOTES:
 1. UDBG NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION (DIAL 811 OR www.udbgny.org).



THERE ARE NO EXISTING OR PROPOSED WELLS AND OR SEWAGE DISPOSAL SYSTEMS WITHIN 200' OF PROPOSED WELL AND SEPTIC



STANDARD NOTES
 THE DESIGN, CONSTRUCTION, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:
 'APPENDIX 75-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE.'
 NEW YORK STATE DEPARTMENT OF HEALTH DESIGN MANUAL 'RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMS DESIGN HANDBOOK'
 'PLANNING THE SUBDIVISION AS PART OF THE TOTAL ENVIRONMENT, NEW YORK STATE DEPARTMENT OF HEALTH.'

'THIS PLAN IS APPROVED AS MEETING THE APPROPRIATE AND APPLIED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER SUPPLY FACILITIES.'

ALL WELLS AND SEWAGE DISPOSAL SYSTEMS EXISTING OR APPROVED WITHIN 200' OF THE PROPOSED WELLS AND SDS ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONAL ABILITY OF THE SEWAGE DISPOSAL SYSTEM AND WELL.

IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE CERTIFYING ENGINEER THAT THE SEPTIC TANK IS SEALED, WATER TIGHT, AND ACCEPTABLE FOR USE. THIS SHALL REQUIRE AS A MINIMUM, THE FILLING OF THE TANK WITH WATER TO OBSERVE IF IT IS IN FACT SEALED, WATERTIGHT AND ACCEPTABLE FOR USE.

ALL PROPOSED WELLS AND SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.

INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED FOR HOUSEHOLD PURPOSES WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY.

A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NEW YORK STATE EDUCATION DEPARTMENT) SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE DWELLING, THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS. A COPY OF THE NYSDEC WELL COMPLETION REPORT MUST ALSO BE PROVIDED.

TOWN CERTIFICATION
 I HEREBY CERTIFY TO THE TOWN OF NEWBURGH THAT THE SEWAGE DISPOSAL SYSTEM DEPICTED ON THIS PLAT HAS BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE PUBLIC HEALTH LAW AND ALL REGULATIONS PROMULGATED THEREUNDER.'

ORANGE COUNTY DEPARTMENT OF HEALTH APPROVAL
 ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.

- STANDARD NOTES
1. THE SEPTIC TANK SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY BUILDING OR PROPERTY LINE.
 2. CELLAR DRAINS, ROOF DRAINS, OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF THE SEWAGE DISPOSAL SYSTEM (SDS).
 3. SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL NOT BE CONSTRUCTED OVER ANY PORTION OF THE ABSORPTION FIELD.
 4. NO TRENCHES SHALL BE INSTALLED IN WET SOIL.
 5. ALL SIDES AND BOTTOM OF ABSORPTION TRENCHES SHALL BE RAKED PRIOR TO PLACEMENT OF ELJEN SAND.
 6. ALL PIPE PENETRATIONS TO CONCRETE SEPTIC TANK AND DISTRIBUTION BOX SHALL BE GROUTED.
 7. DISTRIBUTION LINES SHALL BE CAPPED.
 8. AREAS UPHILL AND/OR ADJACENT TO THE PERIMETER OF THE ABSORPTION FIELD SHOULD BE GRADED TO DIVERT SURFACE WATER.
 9. ALL NEWLY DISTURBED AREAS SHALL BE IMMEDIATELY STABILIZED UPON CONSTRUCTION COMPLETION USING GRASS, SEED, AND MULCH.
 10. ALL LAUNDRY AND KITCHEN WASTES SHALL BE DISCHARGED TO THE SDS.
 11. BENDS SHALL BE USED WHEN THE ENTRANCE OR EXIT FROM THE SEPTIC TANK ARE NOT STRAIGHT. IF BENDS ARE USED AT POINTS OTHER THAN ENTRANCE OR EXIT POINTS A CLEANOUT IS REQUIRED (SEE DETAIL).
 12. THE DESIGN AND LOCATION OF THE SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED WITHOUT ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL.
 13. THERE SHALL BE NO REGRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
 14. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
 15. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SDS IS REDESIGNED TO ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY HEALTH DEPARTMENT.
 16. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
 17. THE PURCHASER OF EACH LOT SHALL BE PROVIDED WITH A COPY OF THE APPROVED PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES, INCLUDING NYSDEC WELL COMPLETION REPORT.
 18. DISTRIBUTION BOXES/DROP BOXES SHOULD BE INSPECTED ANNUALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.
 19. SEPTIC TANKS SHOULD BE INSPECTED ANNUALLY AND PUMPED OUT EVERY 2-3 YEARS.

LEGEND

PROPERTY LINE EXISTING	---	EDGE OF WOODS	---
PROPERTY LINE PROPOSED	- - - -	DEPRESSED CURB	---
SETBACKS		ELECTRIC METER	⊠
EXISTING CONTOUR 2'	---	ELECTRIC BOX	⊠
EXISTING CONTOUR 10'	---	WATER WELL	⊙
PROPOSED CONTOUR 2'	---	CONCRETE FOOTING	▭
PROPOSED CONTOUR 10'	---	CATCH BASINS	▭
EXISTING SINGLE FAMILY RESIDENCE UNDER CONSTRUCTION	▭	MAIL BOX	⊠
PROPOSED SINGLE FAMILY RESIDENCE	▭	DROP CURB	⌒
FINISHED FIRST FLOOR ELEV.	FF 509.5	LANDSCAPED AREA	LSA
BASEMENT FLOOR ELEV.	BF 509.5	TYPICAL	(MP)
LOWEST SEWERABLE ELEVATION	LSE 509.5	EVIDENCE FOUND	⊙ ⊙ ⊙ ⊙
GARAGE FLOOR ELEVATION	GF 509.5		

LOT # 11 SEWAGE DISPOSAL SYSTEM DESIGN CRITERIA

1. NUMBER OF BEDROOMS = 4.
2. DAILY FLOW RATE = 440 GALLONS PER DAY MAX.
3. SEPTIC TANK REQUIRED = 1,250 GALLONS
4. SEPTIC TANK PROVIDED = 1,250 GALLONS
5. STABILIZED PERCOLATION RATE = 39 MINUTES PER INCH DESIGN PERCOLATION RATE = 46-60 MINUTES PER INCH
6. REQUIRED LENGTH OF ABSORPTION TRENCHES FOUR (4) BEDROOM 163 L.F. ELJEN FIELD REQUIRED IN TRENCHES AT 8' ON CENTER
7. PROVIDED LENGTH OF ABSORPTION TRENCHES FOUR (4) ROWS OF 11 (4") ELJEN UNITS = 176 L.F.
8. PUMP CHAMBER REQUIRED - SEE DETAILS
9. CURTAIN DRAIN REQUIRED

	GRADE	INVERT (IN)	INVERT (OUT)	COVERAGE
HOUSE (BF)	527.0		526.00 (L.S.E.)	
SEPTIC TANK	526.0	524.67	524.31	6'
PUMP CHAMBER	526.0	524.25	523.90	11'+
DISTRIBUTION BDX	527.0	525.79	525.63	6'+

L.S.E. = LOWEST SEWERABLE ELEVATION

LATERAL INVERTS		CURTAIN DRAIN INVERTS	
GRADE	LATERAL INVERT	GRADE	LATERAL INVERT
A	527.0	E	527.0
B	526.25	F	526.5
C	526.0	G	521.5
D	526.0		

LOT # 12 SEWAGE DISPOSAL SYSTEM DESIGN CRITERIA

1. NUMBER OF BEDROOMS = 4.
2. DAILY FLOW RATE = 440 GALLONS PER DAY MAX.
3. SEPTIC TANK REQUIRED = 1,250 GALLONS
4. SEPTIC TANK PROVIDED = 1,250 GALLONS
5. STABILIZED PERCOLATION RATE = 42 MINUTES PER INCH DESIGN PERCOLATION RATE = 46-60 MINUTES PER INCH
6. REQUIRED LENGTH OF ABSORPTION TRENCHES FOUR (4) BEDROOM 163 L.F. ELJEN FIELD REQUIRED IN TRENCHES AT 8' ON CENTER
7. PROVIDED LENGTH OF ABSORPTION TRENCHES FOUR (4) ROWS OF 11 (4") ELJEN UNITS = 176 L.F.
8. PUMP CHAMBER REQUIRED - SEE DETAILS
9. CURTAIN DRAIN REQUIRED

	GRADE	INVERT (IN)	INVERT (OUT)	COVERAGE
HOUSE (BF)	531.0		530.00 (L.S.E.)	
SEPTIC TANK	530.5	529.17	528.81	6'
PUMP CHAMBER	530.5	528.75	528.40	11'+
DISTRIBUTION BDX	534.0	532.79	532.63	6'+

L.S.E. = LOWEST SEWERABLE ELEVATION

LATERAL INVERTS		CURTAIN DRAIN INVERTS	
GRADE	LATERAL INVERT	GRADE	LATERAL INVERT
A	534.00	E	537.5
B	533.50	F	532.00
C	533.00	G	530.0
D	532.75		

TARBEN WAY (ASPHALT ROADWAY) (TWO WAY TRAFFIC)

12" DRIVEWAY CULVERT

SITE PLAN / SEPTIC DESIGN

SCALE: 1" = 40'

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

SEPTIC DESIGN AND GRADING PLAN

PROPOSED TWO (2) LOT RESIDENTIAL SUBDIVISION FOR: LYNN WARREN TARBEN WAY LOT # 12 FILED MAP 274.16 (S/B/L: 127 - 1 - 12) TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK TOWN OF NEWBURGH APPLICATION # 21-18

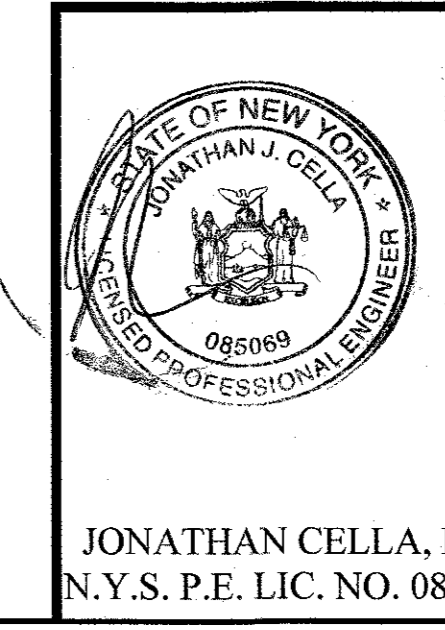
JONATHAN CELLA, P.E.

51 HUNT ROAD WALKKILL, NEW YORK 12589

DATE: 07/01/2023
 DRAWN BY: JJC

SCALE: AS NOTED
 SHEET NO.: 2 OF 6

REVISIONS:
 1. 12/29/2023: IN HOUSE REVISIONS
 2. 03/15/2024: PER OCDH 03-11-2024 COMMENTS AND P.B. SUBMISSION
 3. 04/08/2024: IN HOUSE REVISIONS
 4. 06/28/2024: PER COMMENTS



JONATHAN CELLA, P.E.
 N.Y.S. P.E. LIC. NO. 085069

NAD 1983

N.Y. Road State Plane Coordinate System

N/F Lands of Ronald L. Colandrea
Deed Liber 13019 Page 975
SBL: 6-1-20

N/F Lands of Elliot E. & Beverly G. Matthews
Deed Liber 2332 Page 331
SBL: 6-1-44

N/F Lands of Cynthia Mazzola Martinez
Deed Liber 14711 Page 802
SBL: 6-1-41.22

N/F Lands of G G Properties Inc.
SBL: 6-1-18.2

N/F Lands of Roy & Dawn Fuchuck
Deed Liber 12152 Page 441
SBL: 6-1-11

N/F Lands of Daniel & Elissa Dickinson
Deed Liber 13929 Page 1220
SBL: 6-1-12

N/F Lands of Karen Marie & Michael Ali
Deed Liber 15191 Page 1839
SBL: 127-1-10

LEGEND

- EDGE OF WOODS
- DEPRESSED CURB
- ELECTRIC METER
- ELECTRIC BOX
- TELEPHONE BOX
- WATER WELL
- CATCH BASINS
- CLEAN OUT
- MAIL BOX
- AIR CONDITIONER
- DROP CURB
- LANDSCAPED AREA
- TYPICAL
- EVIDENCE FOUND
- UNDERGROUND ELECTRIC

TREE LEGEND

- TREES > 12" DBH TO REMAIN
- TREES > 12" DBH TO BE REMOVED

LOCATION MAP SCALE: 1" = 2000'

USGS QUADRANGLE: NEWBURGH

SECTION: 127, BLOCK: 1, LOT: 12

TAX MAP SCALE: 1" = 800'

TOTAL AREA: 9.44 ACRES

TREE LOCATION TABLE

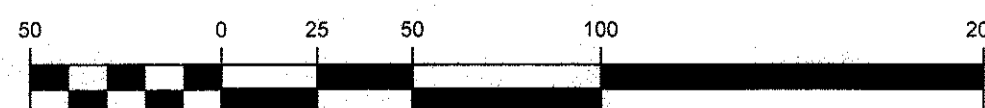
NUMBER	SPECIES	DIA.	CONDITION	
20037	OAK	26	HEALTHY	REMAIN
20038	OAK	19	HEALTHY	REMAIN
20039	ELM	14	2 BOLE HEALTHY	REMAIN
20040	OAK	20	HEALTHY	TBR
20041	MAPLE	16	HEALTHY	TBR
20042	MAPLE	17	HEALTHY	REMAIN
20043	CHERRY	14	HEALTHY	REMAIN
20044	MAPLE	17	HEALTHY	REMAIN
20045	OAK	27	LIVE WITH BASE ROT	REMAIN
20046	OAK	24	HEALTHY	REMAIN
20047	OAK	23	HEALTHY	REMAIN
20048	OAK	18	LIVE WITH DEAD BRANCHES	TBR
20049	OAK	17	HEALTHY	TBR
20050	OAK	18	LIVE WITH DEAD BRANCHES	TBR
20051	CHERRY	14	HEALTHY	TBR
20052	OAK	22	LIVE WITH BASE ROT	TBR
20053	OAK	34	ROTTEN IN MIDDLE	TBR
20054	CHERRY	15	2 BOLE HEALTHY	TBR
20055	OAK	25	2 BOLE HALF DEAD	TBR
20056	OAK	20	HEALTHY	TBR
20057	ELM	15	LIVE WITH DEAD BRANCHES	TBR
20058	OAK	17	HEALTHY	REMAIN
20059	OAK	19	HEALTHY	REMAIN
20060	OAK	22	2 BOLE HEALTHY	REMAIN

TREES TO BE REMOVED: (TBR) 12
 TREES TO REMAIN: 12
 SIGNIFICANT TREE INCHES: 230" TO BE REMOVED: 113"
 SPECIMEN TREE INCHES: 243" TO BE REMOVED: 121"

DENZIES: NO DISTURBANCE ZONE AS PER SECTION 172-5A(5)

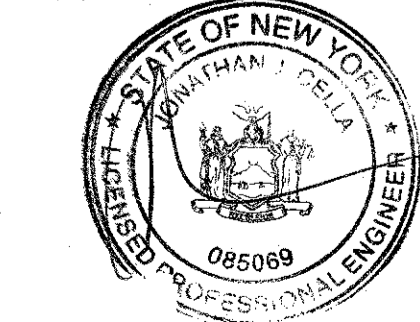
TARBEN WAY (ASPHALT ROADWAY) (TWO WAY TRAFFIC)

GRAPHIC SCALE

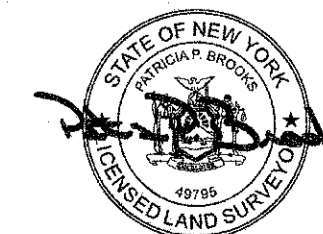


UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S EMBOSSED SEAL SHALL BE CONSIDERED TO BE VALID TRUE COPIES.



JONATHAN CELLA, P.E.
N.Y.S.P.E. LIC. NO. 085069



PATRICIA PAULI BROOKS, L.S.
NEW YORK PROFESSIONAL LAND SURVEYOR #49795

THIS SHEET IS NOT FOR ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW OR APPROVAL. THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH EXISTING CODE OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS ADOPTED BY THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR INK SEAL

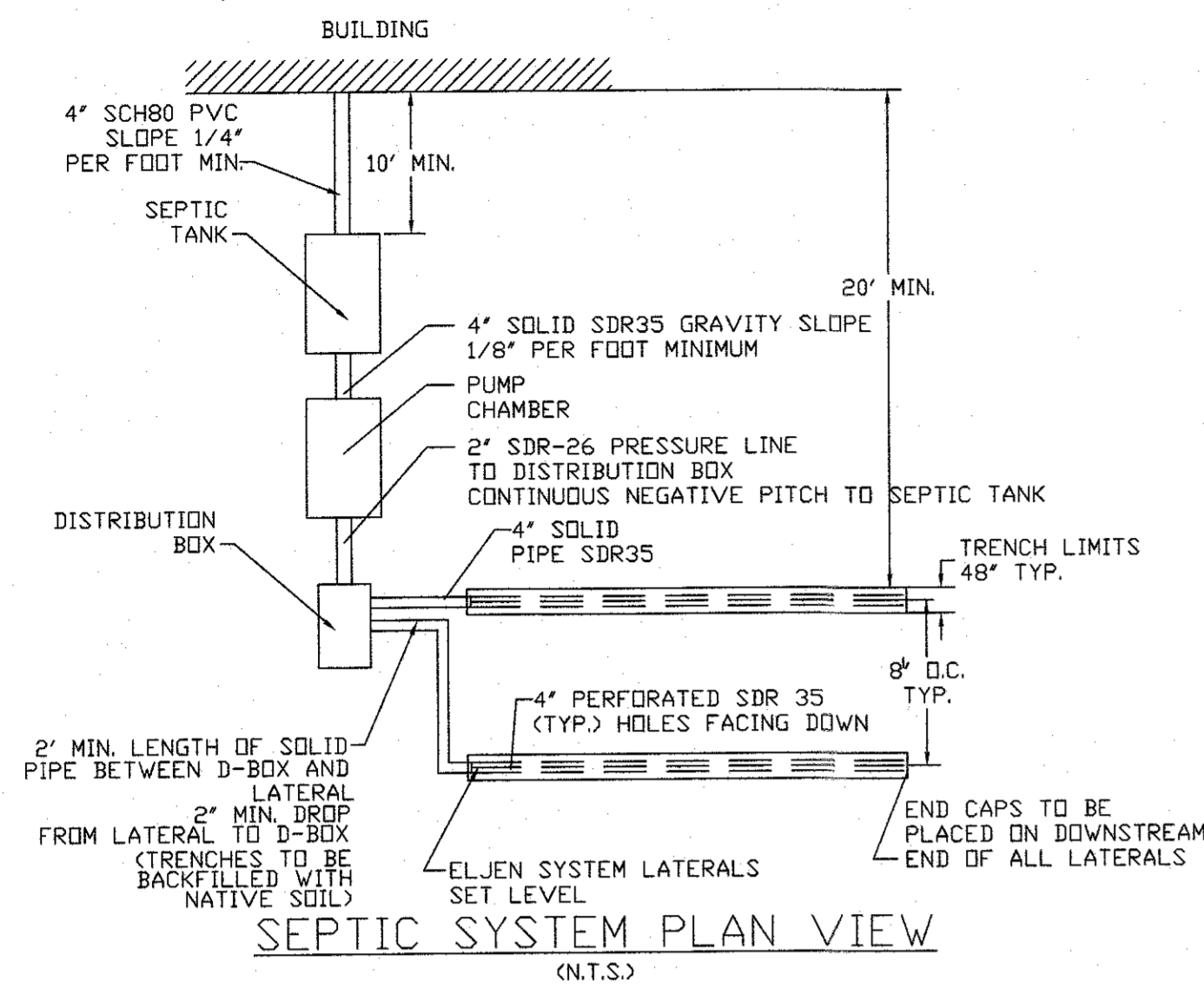
DATE

TREE SURVEY

NO.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
11-14-23	PROPOSED 2 LOT RESIDENTIAL SUBDIVISION				
HV #8	LYNN WARREN				
25-27	TARBEN WAY				
	SBL: 127-1-12				
	TOWN OF NEWBURGH				
	COUNTY OF ORANGE, STATE OF NEW YORK				
	CONTROL POINT ASSOCIATES INC PC				
	11 MAIN STREET				
	HIGHLAND, NY 12528				
	945-693-7339				
	WWW.CPASURVEY.COM				
REVIEWED:	APPROVED:	DATE:	SCALE:	FILE NO.:	DWG. NO.:
SD	PPB	6-28-2024	1" = 50'	12-230503-00	3 OF 6

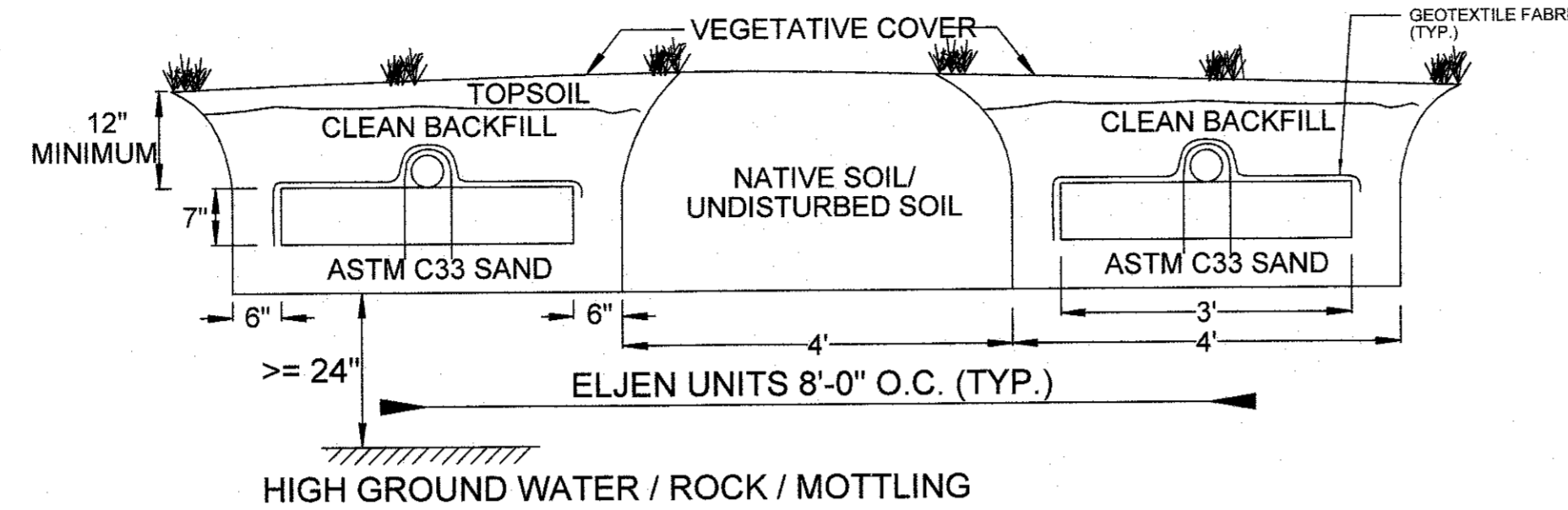
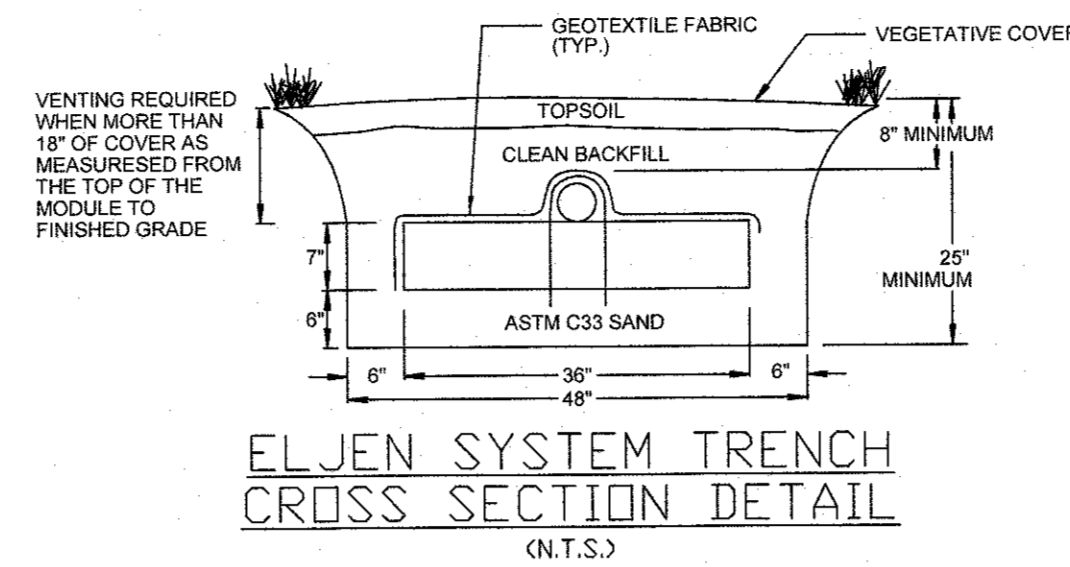


THE STATE OF NEW YORK REQUIRES NOTIFICATION BY EXCAVATORS DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE, ANYWHERE IN THE STATE.

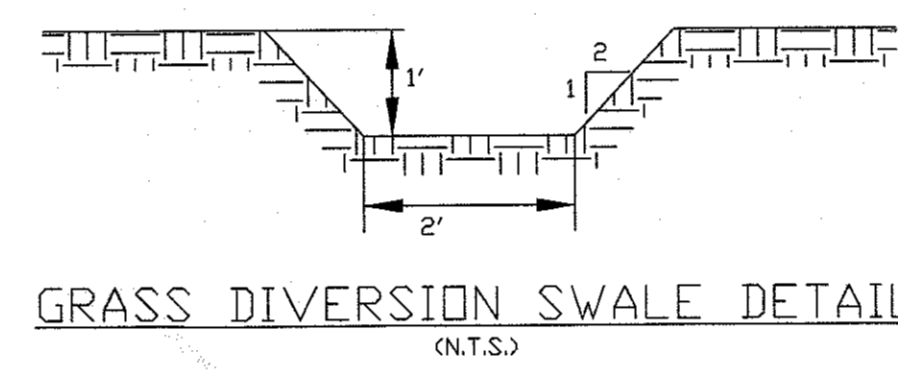


**ELJEN SYSTEM
ASTM C33 SAND SPECIFICATION**

SIEVE SIZE	SIEVE SQUARE OPENING SIZE (WET SIEVE)	SPECIFICATION PERCENT PASSING
0.375"	9.5 mm	100 - 100.0
#4	4.75mm	95 - 100.0
#8	2.36 mm	80 - 100.0
#16	1.18 mm	50 - 85.0
#30	600 um	25 - 60.0
#50	300 um	5.0 - 30.0
#100	150 um	< 10.0
#200	75 um	< 5.0



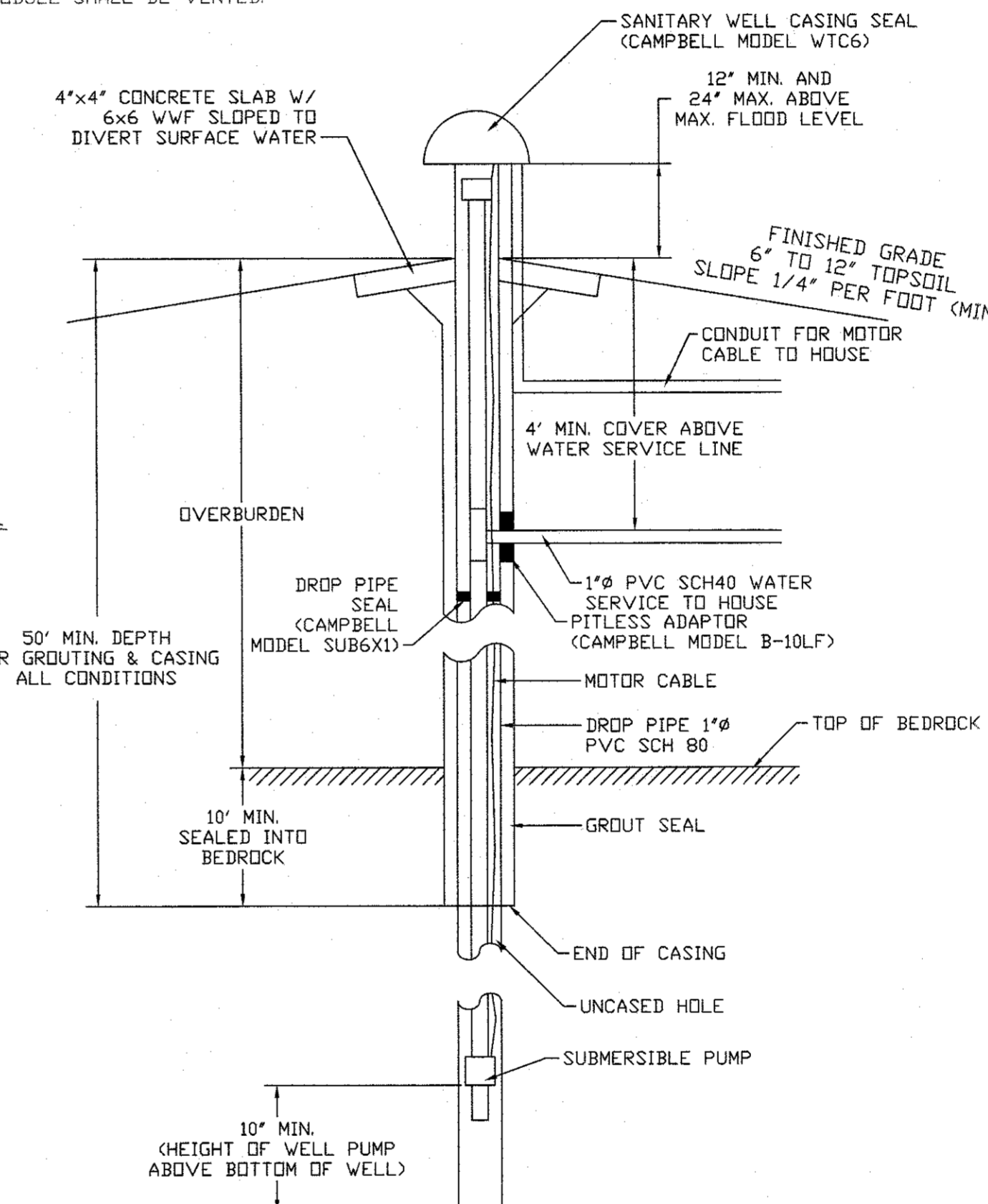
ELJEN SYSTEM CROSS SECTION DETAIL
(N.T.S.)



GRASS DIVERSION SWALE DETAIL
(N.T.S.)

ELJEN SYSTEM NOTES

1. THIS DESIGN AND CONSTRUCTION REQUIREMENT COMPLIES WITH APPENDIX 75-A AND LOCAL HEALTH DEPARTMENT REGULATIONS.
2. THIS DESIGN COMPLIES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT ELJEN NEW YORK DESIGN AND INSTALLATION MANUAL.
3. THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL.
4. THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENER.
5. ORGANIC MATERIAL THAT CAN RESTRICT FLOW MUST BE REMOVED FOR RAISED BEDS. THE SOIL MUST BE SCARIFIED TO PROVIDE DEEP CHANNELS FOR THE SAND. A PLOWED INTERFACE ON CONTOUR IS RECOMMENDED TO PREPARE THE SOIL FOR FILL PLACEMENT.
6. SCARIFY ANY SMEARED SUBSOIL PRIOR TO FILL PLACEMENT.
7. FILL MATERIAL SHALL MEET OR EXCEED STATE OF NEW YORK CODE REQUIREMENTS. ALL FILL MATERIAL SHALL BE CLEAN BANK RUN SAND, FREE OF TOPSOIL, HUMUS, AND "DREDGING" DIRECTLY BENEATH THE GSF SYSTEM.
8. ASTM C33 SPECIFIED SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE SHALL BE PLACED BELOW AND AROUND THE GSF MODULES, WITH 6 INCHES MINIMUM UNDERNEATH AND 6 INCHES MINIMUM SURROUNDING THE GSF MODULES IN TRENCH CONFIGURATIONS. IN BED SYSTEMS, USE 6 INCHES MINIMUM UNDERNEATH THE MODULES WITH 12 INCHES MINIMUM BETWEEN MODULE ROWS AND 12 INCHES MINIMUM AROUND THE PERIMETER OF THE MODULES.
9. ELJEN PROVIDED GEOTEXTILE COVER FABRIC SHALL PROVIDE PROPER TENSION AND ORIENTATION OF THE FABRIC AROUND THE SIDES OF THE PERFORATED PIPE ON TOP OF THE GSF MODULES. FABRIC SHOULD BE NEITHER TOO LOOSE, NOR TOO TIGHT. THE CORRECT TENSION OF THE COVER FABRIC IS SET BY SPREADING THE COVER FABRIC OVER THE TOP OF THE MODULE AND DOWN BOTH SIDES OF THE MODULE WITH THE COVER FABRIC TIGHT OVER THE TOP OF THE PERFORATED DISTRIBUTION PIPE. PLACE SHOVEL FULLS OF SPECIFIED SAND DIRECTLY OVER THE PIPE AREA ALLOWING THE COVER FABRIC TO FORM A MOSTLY VERTICAL ORIENTATION ALONG THE SIDES OF THE PIPE. REPEAT THIS STEP MOVING DOWN THE PIPE.
10. BACKFILL MATERIAL SHALL BE CLEAN WITH NO ROOTS OR STONES LARGER THAN 2 INCHES IN ANY DIMENSION TO A MINIMUM DEPTH OF 8 INCHES OVER THE GSF MODULES AND FINAL COVER FOR VEGETATION OF 4 INCHES TO 6 INCHES OF CLEAN LOAM.
11. ANY SYSTEM WHICH IS MORE THAN 18 INCHES BELOW FINISH GRADE AS MEASURED FROM THE TOP OF THE MODULE SHALL BE VENTED.



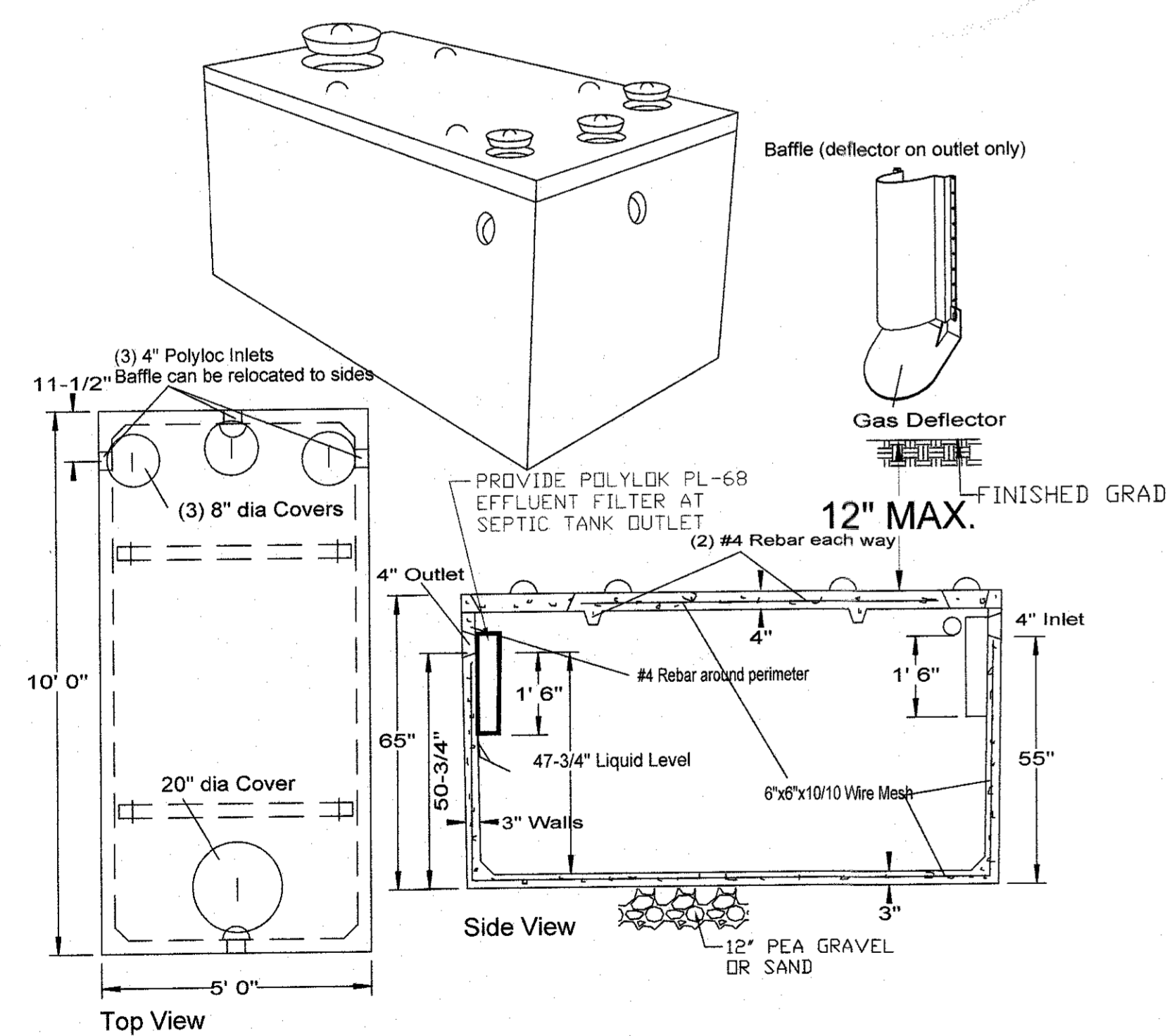
1. CONSTRUCT WELL PER NYSDDH APPENDIX 5-B, STANDARDS FOR WATER WELLS, LATEST EDITION.
2. PUMP SETTING TO BE ESTABLISHED IN FIELD. STABILIZED YIELD RATE TO BE 5 GPM (MIN.).
3. GROUTING AROUND PIPE CASING SHALL EXTEND AT LEAST 50' BELOW GRADE AND SHALL BE NEAT CEMENT GROUT. GROUT SHALL BE PLACED UPWARD FROM THE BOTTOM AS ONE CONTINUOUS MASS.
4. STEEL CASING: 6" (IN ACCORDANCE WITH AWWA STANDARD A-100 MOST CURRENT EDITION) DRILL HOLE 10". THE MINIMUM CASING DEPTH SHALL BE THROUGH THE OVERBURDEN AND AT LEAST 10' INTO BEDROCK. CASING SHALL BE GROUTED INTO FIRM BEDROCK. UNDER NO CONDITION SHOULD CASING AND GROUTING EXTEND LESS THAN 50' DEEP.
5. USE OF TEMPORARY OUTSIDE CASING MAY BE NECESSARY TO PERMIT GROUTING WHERE CAVING IN IS ENCOUNTERED.

WELL DETAIL
(N.T.S.)

- Insert leveler in the end of all outlet pipes in the distribution box.
- Rotate until effluent enters all outlets equally.
- Compensates for up to 1-1/4" difference in pipe end elevations.
- Fits all 4" smooth wall and corrugated pipes.

SPECIFICATIONS	SPEED LEVELER FSL-4
Construction: Plastic	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050

SPEED LEVELER DETAIL
(N.T.S.)

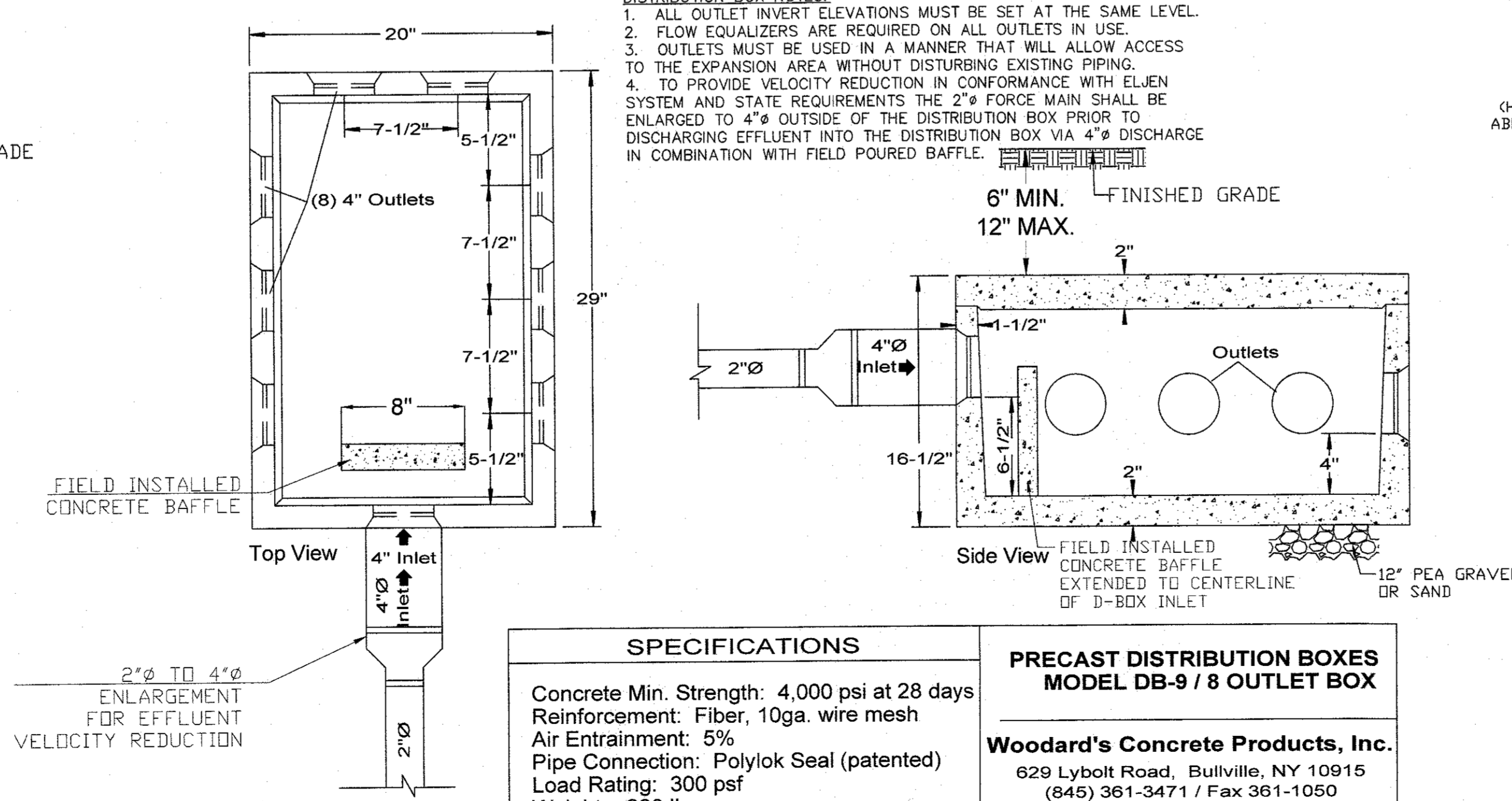


SPECIFICATIONS	PRECAST SEPTIC TANKS MODEL ST-1250 / 1250 GALLONS
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: #4 Rebar, 6x6x10ga. WVMW Air Entrainment: 5% Construction Joint: Butyl Rubber Sealant Pipe Connection: Polylok Seal (patented) Weight = 9,500 lbs Load Rating: 300 psf	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050

1,250 GALLON SEPTIC TANK
N.T.S.

SPECIFICATIONS	SEPTIC TANK & GREASE TRAP EFFLUENT FILTERS
Construction: PVC or Polyethylene plastic NSF Standard 46 Certified	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050

- DISTRIBUTION BOX NOTES:**
1. ALL OUTLET INVERT ELEVATIONS MUST BE SET AT THE SAME LEVEL.
 2. FLOW EQUALIZERS ARE REQUIRED ON ALL OUTLETS IN USE.
 3. OUTLETS MUST BE USED IN A MANNER THAT WILL ALLOW ACCESS TO THE EXPANSION AREA WITHOUT DISTURBING EXISTING PIPING.
 4. TO PROVIDE VELOCITY REDUCTION IN CONFORMANCE WITH ELJEN SYSTEM AND STATE REQUIREMENTS THE 2" FORCE MAIN SHALL BE ENLARGED TO 4" OUTSIDE OF THE DISTRIBUTION BOX PRIOR TO DISCHARGING EFFLUENT INTO THE DISTRIBUTION BOX VIA 4" DISCHARGE IN COMBINATION WITH FIELD POURED BAFFLE.



SPECIFICATIONS	PRECAST DISTRIBUTION BOXES MODEL DB-9 / 8 OUTLET BOX
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: Fiber, 10ga. wire mesh Air Entrainment: 5% Pipe Connection: Polylok Seal (patented) Load Rating: 300 psf Weight = 290 lbs	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050

DISTRIBUTION BOX DETAIL
N.T.S.

SOIL TEST DATA LOT # 11

DEEP TEST INFORMATION

D111	5'-4" DEEP	03/11/2021
0-4"	TOPSOIL	
4'-64"	CLAY LOAM	
	NO ROCK, NO MOTTLING, WATER AT 64'	
D112	4'-4" DEEP	03/11/2021
0-4"	TOPSOIL	
4'-52"	CLAY LOAM	
	NO ROCK, NO WATER, NO MOTTLING	
D113**	4'-3" DEEP	10/05/2022
0-4"	TOPSOIL	
4'-51"	SILTY CLAY LOAM	
	NO WATER, NO MOTTLING	
	REFUSAL AT 51'	

**WITNESSED BY ORANGE COUNTY HEALTH DEPARTMENT

PERCOLATION TEST INFORMATION

P111	12" DEEP	03/21/21	STABILIZED PERC. RATE = 21 MIN. PER INCH
P112	12" DEEP	03/21/21	STABILIZED PERC. RATE = 18 MIN. PER INCH
P113**	24" DEEP	10/05/2022	STABILIZED PERC. RATE = 1 MIN. 4 SECONDS PER INCH
P114**	24" DEEP	10/06/2022	STABILIZED PERC. RATE = 39 MIN. 1 SECONDS PER INCH

**WITNESSED BY ORANGE COUNTY HEALTH DEPARTMENT

SOIL TEST DATA LOT # 12

DEEP TEST INFORMATION

D121	4'-6" DEEP	03/11/2021
0-4"	TOPSOIL	
4'-54"	CLAY LOAM	
	NO ROCK, NO WATER, NO MOTTLING	
D122	4'-0" DEEP	03/11/2021
0-12"	TOPSOIL	
12'-48"	CLAY LOAM	
	NO ROCK, NO WATER, NO MOTTLING	
D123**	5'-4" DEEP	10/05/2022
0-4"	TOPSOIL	
4'-44"	SILTY CLAY LOAM	
44'-64"	SANDY CLAY LOAM	
	NO WATER, NO MOTTLING	
	REFUSAL AT 64'	
D39	5'-4" DEEP	10/22/2004
0-6"	TOPSOIL	
6'-64"	CLAY LOAM	
	NO ROCK, NO WATER, NO MOTTLING	

PERCOLATION TEST INFORMATION

P121	12" DEEP	03/21/21	STABILIZED PERC. RATE = 36 MIN. PER INCH
P122	12" DEEP	03/21/21	STABILIZED PERC. RATE = 16 MIN. PER INCH
P123**	24" DEEP	10/05/2022	STABILIZED PERC. RATE = 1 MIN. 3 SECONDS PER INCH
P124**	24" DEEP	10/05/2022	STABILIZED PERC. RATE = 38 MIN. 57 SECONDS PER INCH
P29	24" DEEP	11/23/2004	STABILIZED PERC. RATE = 11 MIN. 52 SECONDS PER INCH
P240	24" DEEP	11/23/2004	STABILIZED PERC. RATE = 7 MIN. 23 SECONDS PER INCH
P53**	24" DEEP	06/20/2008	STABILIZED PERC. RATE = 42 MIN. 1 SECOND PER INCH

**WITNESSED BY ORANGE COUNTY HEALTH DEPARTMENT

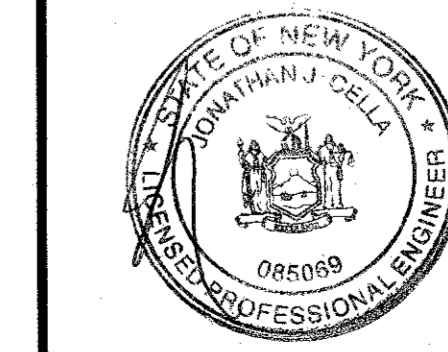
PERCOLATION TEST INFORMATION

P121	12" DEEP	03/21/21	STABILIZED PERC. RATE = 36 MIN. PER INCH
P122	12" DEEP	03/21/21	STABILIZED PERC. RATE = 16 MIN. PER INCH
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**WITNESSED BY ORANGE COUNTY HEALTH DEPARTMENT

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET

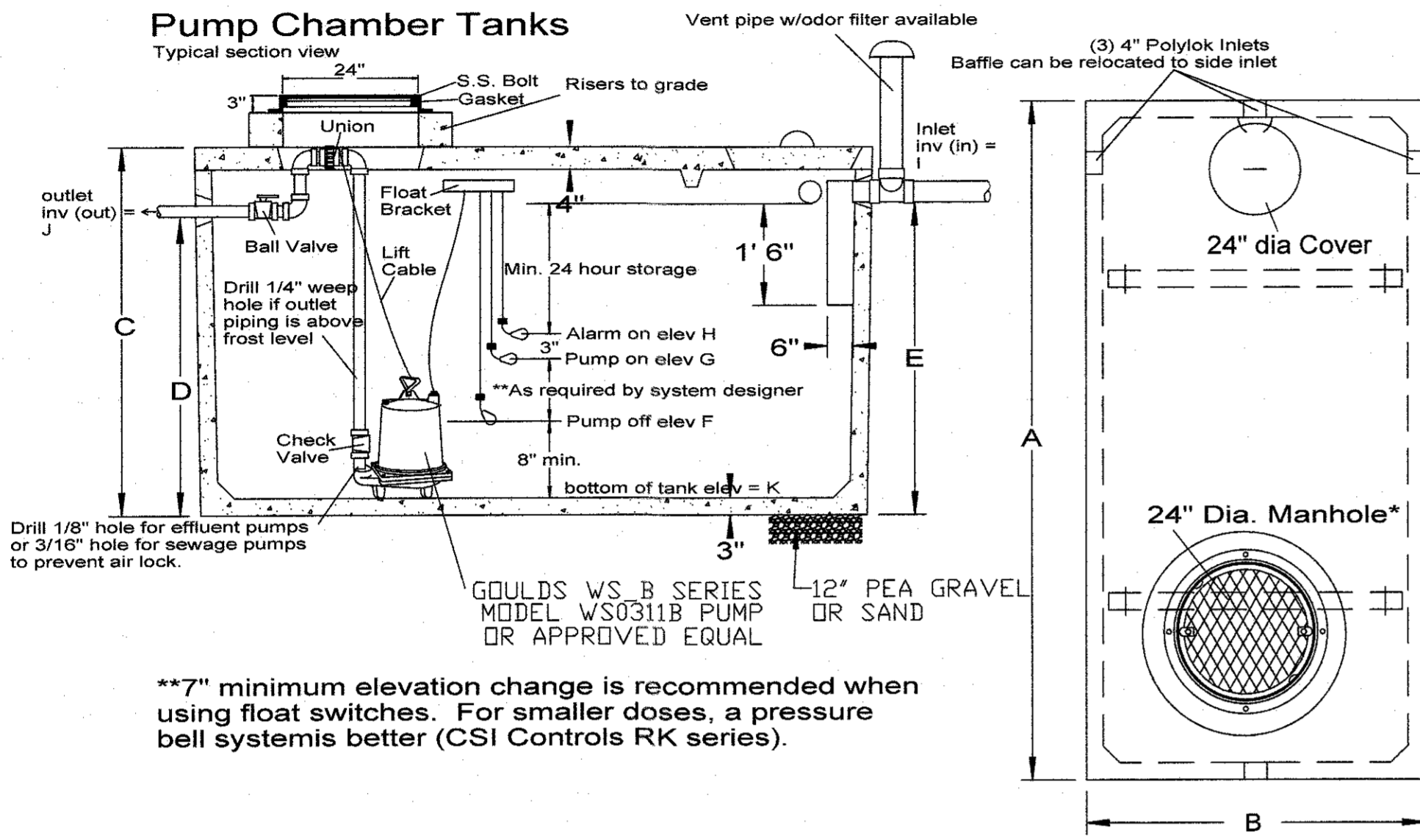
SEWAGE DISPOSAL SYSTEM DETAILS
PROPOSED TWO (2) LOT
RESIDENTIAL SUBDIVISION FOR
LYNN WARREN
TARBEN WAY
LOT # 12 FILED MAP 274.16 (S/B/L: 127 - 1 - 12)
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
TOWN OF NEWBURGH APPLICATION # 21-18
JONATHAN CELLA, P.E.
51 HUNT ROAD



JONATHAN CELLA, P.E.
N.Y.S. P.E. LIC. NO. 085069

DATE: 07/01/2023	WALKKILL, NEW YORK 12589 (845) 741-0363 jonathancella@hotmail.com	DRAWN BY: JJC
SCALE: AS NOTED		SHEET NO.: 4 OF 6

- REVISIONS:**
1. 12/29/2023: IN HOUSE REVISIONS
 2. 03/15/2024: PER OCDH 03-11-2024 COMMENTS AND P.B. SUBMISSION
 3. 04/08/2024: IN HOUSE REVISIONS
 4. 06/28/2024: PER COMMENTS



Model	A	B	C	D	E	Gallons per inch LL
*GT-1000	8'-6"	4'-10"	65"	50.5"	55"	21.6

*Indicates stock size

SPECIFICATIONS		PRECAST PUMP CHAMBERS RESIDENTIAL GRADE	
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: WWM & Rebar Air Entrainment: 6% Pipe Connection: Polylok Seal or Pipe Boots Volume: PC-4x4 = 300 gallons Load Rating: 300 psf		Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050	
www.woodardsconcrete.com		Page 3C 7/30/18	

- PUMP CHAMBER NOTES**
- THE CONTRACTOR SHALL DETERMINE REQUIRED LENGTHS OF ELECTRICAL CABLE AND AVAILABLE VOLTAGE PRIOR TO ORDERING EQUIPMENT.
 - ALL WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND LOCAL CODE REQUIREMENTS.
 - THE POWER AND CONTROL WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT ANY OUTSIDE SPLICES.
 - THE PUMP CONTROL PANEL SHALL BE LOCATED IN AN ACCESSIBLE LOCATION OF THE RESIDENCE WITH AUDIBLE ALARMS AND A FLASHING LIGHT.
 - A N.Y.S. PROFESSIONAL ENGINEER MUST CERTIFY TO THE INSTALLATION OF THE SYSTEM.
 - THE QUANTITY Dosed IS BASED UPON 75% OF THE VOLUME OF THE LATERALS AND 100% THE VOLUME OF THE FORCE MAIN.
 - AS BUILT MUST SHOW FORCE MAIN LOCATION.
 - THE PUMP CHAMBER SHALL BE A WOODARD'S MODEL GT-1000 / 1000 GALLON PRECAST CONCRETE SEPTIC TANK WITHOUT THE BAFFLE.
 - THE FORCE MAIN MUST MAINTAIN A POSITIVE SLOPE TO THE DISTRIBUTION BOX ALLOWING EFFLUENT TO RETURN TO THE PUMP CHAMBER BETWEEN PUMPING CYCLES.
 - PUMP STATIONS SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING, AND ANY PHYSICAL DAMAGE.

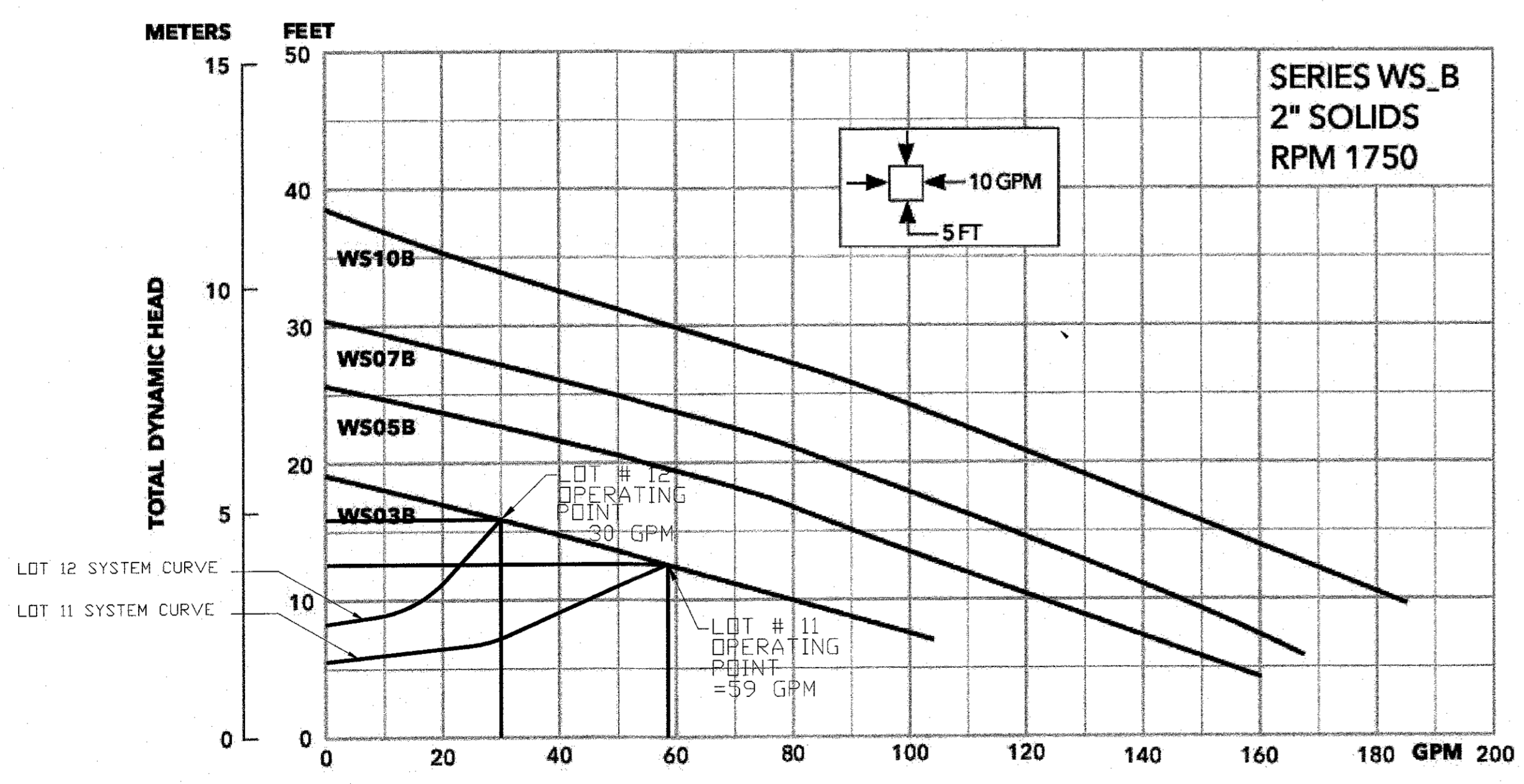
LOT # 11 DOSING CALCULATIONS

STORAGE CALCULATION = 21.6 GALS./IN
 LEACH FIELD VOLUME CALCULATION = 0.653 GAL/LF x 176 L.F. = 114.93 GALS.
 DOSE CALCULATION = 114.93 GALS. x 75% = 86.20 GALS.
 FORCE MAIN VOLUME = 0.163 GAL/LF x 95 LF = 15.49 GALS.
 DOSE CALCULATION = (86.20 GALS. + 15.49 GALS.) / 21.6 GALS./IN = 4.71 IN.
 DOSE PROVIDED = 5.0 IN. x 21.6 GALS./IN = 108 GALS.
 STORAGE DEPTH = (524.25 - 521.29) x 12' / 1' = 35.5'
 STORAGE VOLUME = 35.5' x 21.6 GALS./IN = 766.8 GALS.

LOT # 12 DOSING CALCULATIONS

STORAGE CALCULATION = 21.6 GALS./IN
 LEACH FIELD VOLUME CALCULATION = 0.653 GAL/LF x 176 L.F. = 114.93 GALS.
 DOSE CALCULATION = 114.93 GALS. x 75% = 86.20 GALS.
 FORCE MAIN VOLUME = 0.163 GAL/LF x 157 LF = 25.59 GALS.
 DOSE CALCULATION = (86.20 GALS. + 25.59 GALS.) / 21.6 GALS./IN = 5.18 IN.
 DOSE PROVIDED = 5.5 IN. x 21.6 GALS./IN = 118.8 GALS.
 STORAGE DEPTH = (528.75 - 525.75) x 12' / 1' = 36'
 STORAGE VOLUME = 36' x 21.6 GALS./IN = 777.6 GALS.

	LOT # 11	LOT # 12
PUMP CHAMBER IN ELEVATION (I)	524.25	528.75
PUMP CHAMBER OUT ELEVATION (J)	523.88	528.38
BOTTOM OF TANK ELEVATION (K)	519.92	524.42
PUMP OFF ELEVATION (F)	520.58	525.08
PUMP ON ELEVATION (G)	521.04	525.50
HIGH WATER ELEVATION (H)	521.29	525.75



	LOT # 11	LOT # 12
STATIC HEAD = (DISTRIBUTION BOX IN) - (BOTTOM OF PUMP CHAMBER)	= 525.79' - 519.92' = 5.87 FT.	= 532.79' - 524.42' = 8.37 FT.
HEAD LOSSES = FRICTION LOSSES + BEND LOSSES + ETC.	= 7 FT.	= 8 FT.
TOTAL DYNAMIC HEAD	= 5.87' + 7' = 12.87 FT.	= 8.37' + 8' = 16.37 FT.
OPERATING POINT	= 59 GPM	= 30 GPM
DOSE VOLUME	= 108 GALS.	= 108 GALS.
DOSE TIME	= 1 MINUTE 30 SECONDS	= 3 MINUTE 36 SECONDS

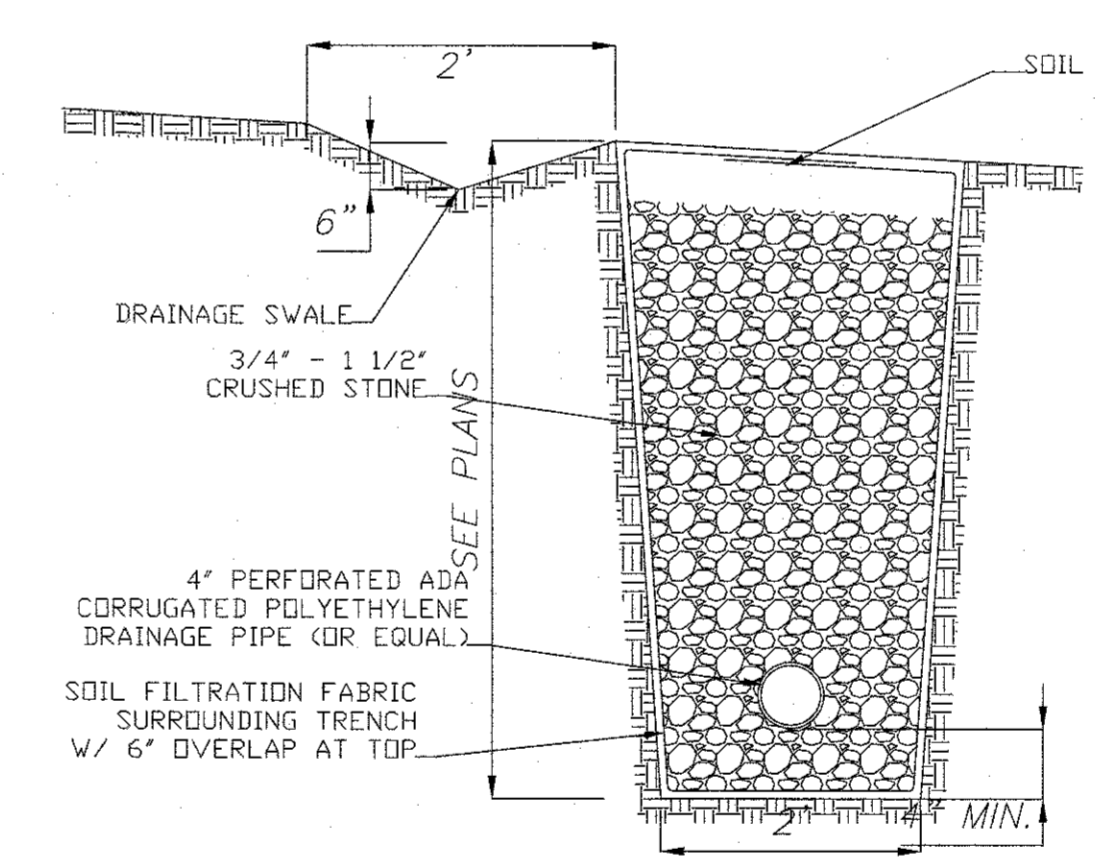
SYSTEM COMPONENTS	REQUIRED SEPARATION DISTANCES FROM WASTEWATER TREATMENT SYSTEM COMPONENTS				
	WELL OR SUCTION LINE	STREAM, LAKE, WATERCOURSE (b), OR WETLAND	DWELLING	PROPERTY DRAINAGE LINE	DITCH OR RAIN GARDEN (h)
HOUSE SEWER DRAIN (WATERTIGHT JOINTS)	25 IF CAST IRON 50' OTHERWISE	25 FEET	3 FEET	10 FEET	10 FEET
SEPTIC TANK, DOSING TANK OR WATER TIGHT (ETU)	50 FEET	50 FEET	10 FEET	10 FEET	10 FEET
EFFLUENT LINE TO D-BOX/DROP-BOX	50 FEET	50 FEET	10 FEET	10 FEET	10 FEET
DISTRIBUTION BOX/DROP BOX	100 FEET	100 FEET	20 FEET	10 FEET	20 FEET
ABSORPTION FIELD (c)(d)	100 FEET (a)	100 FEET	20 FEET	10 FEET	20 FEET
SEEPAGE PIT (d)	150 FEET (a)	100 FEET	20 FEET	10 FEET	20 FEET
RAISED SYSTEM OR MOUND (c)(d)	100 FEET (a)	100 FEET	20 FEET	10 FEET	20 FEET
INTERMITTENT SAND FILTER (d)	100 FEET (c)(f)	100 FEET (c)(f)	20 FEET	10 FEET	20 FEET
NON WATERBORNE SYSTEMS WITH OFFSITE RESIDUAL DISPOSAL	50 FEET	50 FEET	20 FEET	10 FEET	10 FEET
NON WATERBORNE SYSTEMS WITH ONSITE DISCHARGE	100 FEET	50 FEET	20 FEET	10 FEET	20 FEET

- ADDITIONAL SEPARATIONS:**
- ABSORPTION FIELD TO THE HIGH WATER LINE OF A WET POND - 100'
 - ABSORPTION FIELD TO INTERMITTENT STREAM, STORMWATER INFILTRATION MANAGEMENT PRACTICE, CULVERT OR STORM SEWER (NONGASKETED PIPE), OR CATCH BASIN - 50'
 - ABSORPTION FIELD TO CULVERT OR STORM SEWER (GASKETED TIGHT PIPE) - 25'
 - ABSORPTION FIELD TO ROOF OR FOOTING DRAIN, SNOW STORAGE EASEMENT - 10'
 - DRAINAGE PIPES WITHIN 25' OF ANY WELL MUST BE WATERTIGHT.
 - WELL TO SUBDIVISION BOUNDARY - 50'
 - ABSORPTION FIELD TO SUBDIVISION BOUNDARY - 50'

- NOTES**
- WHEN WASTEWATER TREATMENT SYSTEMS ARE LOCATED UPGRADE AND IN THE DIRECT PATH OF SURFACE WATER DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 FEET AWAY FROM THE WELL.
 - MEAN HIGH WATER MARK, WETLAND OR WATERCOURSE DETERMINATIONS SHOULD BE ADDRESSED WITH THE LHD OR OTHER AGENCY HAVING JURISDICTION AND THE APPLICABLE NYSDEC REGIONAL OFFICE.
 - FOR ALL SYSTEMS INVOLVING PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM THE TIDE OF SLOPE OF THE FILL, EXCEPT FOR SOME SHALLOW ABSORPTION TRENCH SYSTEMS AS DESCRIBED IN SECTION 912.2 OF THIS HANDBOOK.
 - SEPARATION DISTANCES SHALL ALSO BE MEASURED FROM THE EDGE OF THE DESIGNATED ADDITIONAL USEABLE AREA (I.E. RESERVE AREA), WHEN AVAILABLE.
 - THE CLOSEST PART OF THE WASTEWATER TREATMENT SYSTEM SHALL BE LOCATED AT LEAST TEN (10) FEET FROM ANY WATER SERVICE LINE (E.G. PUBLIC WATER SUPPLY MAIN, PUBLIC WATER SERVICE LINE OR RESIDENTIAL WELL WATER SERVICE LINE).
 - WHEN INTERMITTENT SAND FILTERS ARE DESIGNED TO BE WATERTIGHT AND COLLECT ALL EFFLUENT, THE SEPARATION DISTANCE CAN BE REDUCED TO 50 FEET.
 - THE LISTED WATER WELL SEPARATION DISTANCES FROM CONTAINMENT SOURCES SHALL BE INCREASED BY 50% WHENEVER AQUIFER WATER ENTERS THE WATER WELL AT LESS THAN 50 FEET.
 - RECOMMENDED: USE SITE EVALUATION TO AVOID DWTS SHORT CIRCUITING TO THE SURFACE OR GROUNDWATER AND TO MINIMIZE IMPACTS ON DWTS FUNCTIONALITY. SEPARATION DISTANCES BELOW GRADE IF A 50% INCREASE CANNOT BE ACHIEVED, THEN THE GREATEST POSSIBLE INCREASE IN SEPARATION DISTANCE SHALL BE PROVIDED WITH SUCH ADDITIONAL MEASURES AS NEEDED TO PREVENT CONTAMINATION.
 - IF SEPARATION DISTANCES ARE LESS AN AEROBIC TANK MAY BE REQUIRED.

EMBANKMENT OR VERY STEEP SLOPE: IT IS RECOMMENDED THAT SYSTEM COMPONENTS BE LOCATED A MINIMUM OF 25 FEET AND THE ABSORPTION FIELD BE LOCATED A MINIMUM OF 50 FEET FROM AN EMBANKMENT OR VERY STEEP SLOPE. MAXIMIZE SEPARATION DISTANCES AND USE SITE EVALUATION TO AVOID SHORT-CIRCUITING TO SURFACE (BREAKOUT OR SEEPAGE).

SWIMMING POOLS (ABOVE OR BELOW GROUND): IT IS RECOMMENDED THAT SYSTEM COMPONENTS BE LOCATED A MINIMUM OF 20 FEET AND THE ABSORPTION FIELD BE LOCATED A MINIMUM OF 35 FEET FROM SWIMMING POOLS. MAXIMIZE SEPARATION DISTANCES AND USE SITE EVALUATION TO MINIMIZE IMPACTS ON DWTS ACCESSIBILITY AND FUNCTIONALITY.

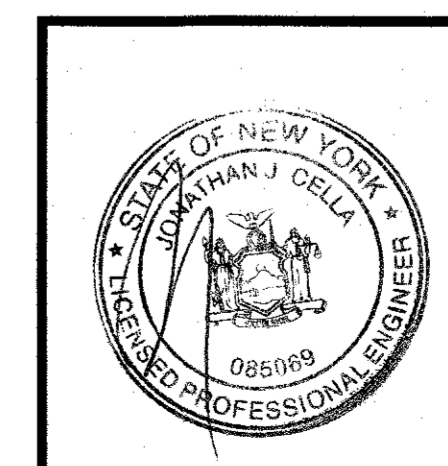


- CURTAIN DRAIN NOTES**
- CURTAIN DRAIN SHALL BE INSTALLED UPHILL AND ALONG ONE SIDE OF THE ABSORPTION FIELD AS SHOWN ON THE PLANS.
 - PLACE SOIL FILTRATION FABRIC ALONG THE BOTTOM AND SIDES OF TRENCH. PLACE 4" CRUSHED STONE AT BOTTOM. INSTALL PERFORATED PIPE, AND BACKFILL WITH CRUSHED STONE. OVERLAP SOIL FILTRATION FABRIC OVER CRUSHED STONE BEFORE PLACEMENT OF IMPERVIUS SOIL.
 - TRANSITION FROM PERFORATED TO SOLID PIPE MAY BE MADE ADJACENT TO THE LAST LATERAL INSTALLED.
 - CLEANOUTS TO BE INSTALLED FLUSH WITH FINISHED GRADE AT LOCATIONS SHOWN ON PLAN.
 - END OF SOLID PVC CURTAIN DRAIN OUTLET SHALL BE SCREENED.
 - SWALES AND CURTAIN DRAIN DISCHARGES TO BE DIRECTED AWAY FROM ABSORPTION FIELD.

CURTAIN DRAIN DETAIL
(N.T.S.)

THIS SHEET IS INVALID AND VOID UNLESS ACCOMPANIED BY REMAINING SHEETS IN SET.

DETAILS			
PROPOSED TWO (2) LOT RESIDENTIAL SUBDIVISION FOR: LYNN WARREN TARBEN WAY LOT # 12 FILED MAP 274.16 (S/B/L: 127 - 1 - 12) TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK TOWN OF NEWBURGH APPLICATION # 21-18			
JONATHAN CELLA, P.E. 51 HUNT ROAD WALKKILL, NEW YORK 12589			
DATE: 07/01/2023	(845) 741-0885 jonathancell@icell.com	DRAWN BY: JJC	SHEET NO. : 5 OF 6
REVISIONS: 1. 12/29/2023: IN HOUSE REVISIONS 2. 03/15/2024: PER OCDH 03/11/2024 COMMENTS AND P.B. SUBMISSION 3. 04/08/2024: IN HOUSE REVISIONS 4. 06/28/2024: PER COMMENTS			



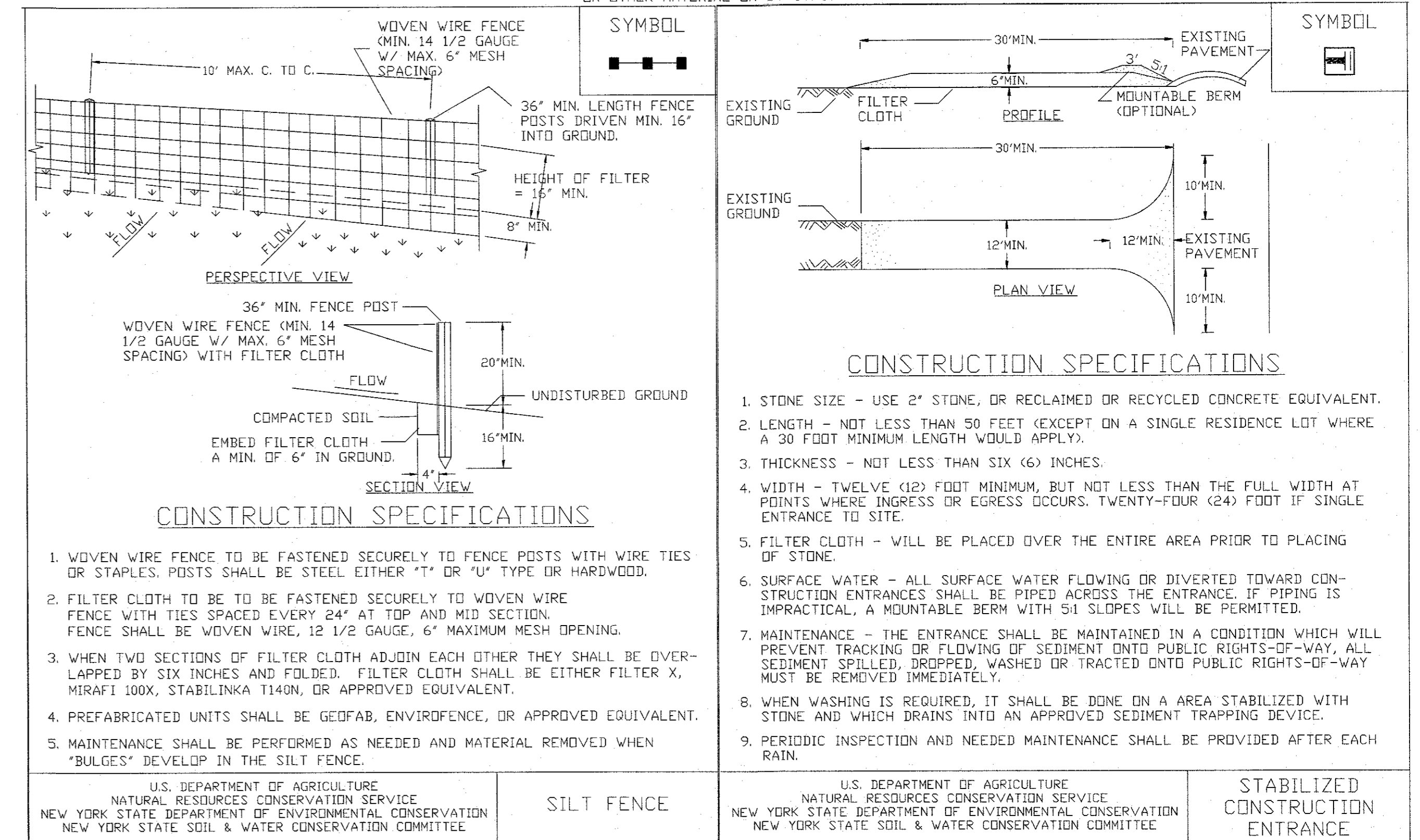
JONATHAN CELLA, P.E.
N.Y.S. P.E. LIC. NO. 085069

PROCEDURAL NOTES:
 1. UDBG NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION (DIAL 811 OR www.udbgnyny.org).

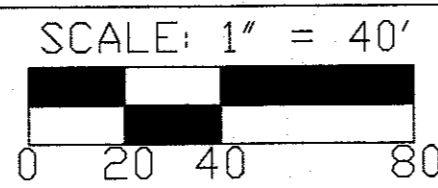
TEMPORARY VEGETATION NOTES
 TEMPORARY VEGETATION SHALL BE USED TO PROTECT AREAS IN EXCESS OF 1/2 ACRE EXPOSED FOR PERIODS OF TWO (2) WEEKS BEFORE OR DURING DEVELOPMENT.
 A. FIFTY (50) LBS OF NITROGEN, 50 LBS OF APPROVED GRAIN SEED AND 2 TONS OF HAY MULCH PER ACRE OR
 B. ON AREAS THAT WILL BE EXPOSED FOR SHORT PERIODS OF TIME AND WHERE WEATHER CONDITIONS ARE CONDUCIVE TO AIRBORNE SAND, TRAPS TO CONTROL SUCH SAND SHALL BE INSTALLED AS DIRECTED.
 C. ON AREAS SUCH AS TEMPORARY ROADWAYS, WHEN DRY CONDITIONS PREVAIL, THE CONTRACTOR SHALL BE REQUIRED TO APPLY WATER OR CALCIUM CHLORIDE AS REQUIRED TO PREVENT DUST DURING CONSTRUCTION ACTIVITIES.

EROSION CONTROL STANDARD NOTES
 1. EXCAVATION, FILLING, GRADING, AND STRIPPING ACTIVITIES SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO MINIMIZE THE POTENTIAL OF EROSION AND SEDIMENT AND THE THREAT TO THE HEALTH, SAFETY AND WELFARE OF NEIGHBORING PROPERTY OWNERS AND THE GENERAL PUBLIC.
 2. SITE PREPARATION AND CONSTRUCTION SHALL BE FITTED TO THE VEGETATION, TOPOGRAPHY, AND OTHER NATURAL FEATURES OF THE SITE AND SHALL PRESERVE AS MANY OF THESE FEATURES AS POSSIBLE.
 3. THE CONTROL OF EROSION AND SEDIMENT SHALL BE A CONTINUOUS PROCESS UNDERTAKEN AS NECESSARY PRIOR TO, DURING AND AFTER SITE PREPARATION AND CONSTRUCTION.
 4. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED BY SITE PREPARATION AT ANY GIVEN TIME.
 5. THE EXPOSURE OF AREAS BY SITE PREPARATION SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME PRIOR TO THE CONSTRUCTION OF STRUCTURES OR IMPROVEMENTS OR THE RESTORATION OF THE EXPOSED AREAS TO AN ATTRACTIVE NATURAL CONDITION.
 6. MULCHING OR TEMPORARY VEGETATION SUITABLE TO THE SITE SHALL BE USED WHERE NECESSARY TO PROTECT AREAS EXPOSED BY SITE PREPARATION, AND PERMANENT VEGETATION WHICH IS WELL ADAPTED TO THE SITE SHALL BE INSTALLED AS SOON AS PRACTICAL.
 7. WHERE SLOPES ARE TO BE REVEGETATED IN AREAS EXPOSED BY SITE PREPARATION, THE SLOPES SHALL NOT BE OF SUCH STEEPNESS THAT VEGETATION CANNOT BE READILY ESTABLISHED OR THAT PROBLEMS OF EROSION OR SEDIMENT MAY RESULT.
 8. SITE PREPARATION AND CONSTRUCTION SHALL NOT ADVERSELY AFFECT THE FREE FLOW OF WATER BY ENCRUACHING ON, BLOCKING OR RESTRICTING WATERCOURSES.
 9. ALL FILL MATERIAL SHALL BE OF COMPOSITION SUITABLE FOR THE ULTIMATE USE OF THE FILL, FREE OF RUBBISH, AND CAREFULLY RESTRICTED IN ITS CONTENT OF BRUSH, STUMPS, TREE DEBRIS, ROCKS, FROZEN MATERIAL, AND SOFT OR EASILY COMPRESSIBLE MATERIAL.
 10. FILL MATERIAL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT PROBLEMS OF EROSION, AND WHERE THE MATERIAL IS TO SUPPORT STRUCTURES, IT SHALL BE COMPACTED TO A MINIMUM OF NINETY PERCENT (90%) OF STANDARD PROCTOR WITH PROPER MOISTURE CONTROL.
 11. ALL TOPSOIL WHICH IS EXCAVATED FROM A SITE SHALL BE STOCKPILED AND USED FOR THE RESTORATION OF THE SITE, AND SUCH STOCKPILES, WHERE NECESSARY, SHALL BE SEEDED OR OTHERWISE TREATED TO MINIMIZE THE EFFECTS OF EROSION.
 12. PRIOR TO, DURING AND AFTER SITE PREPARATION AND CONSTRUCTION, AN INTEGRATED DRAINAGE SYSTEM SHALL BE PROVIDED WHICH AT ALL TIMES MINIMIZES EROSION, SEDIMENT, HAZARDS OF SLOPE INSTABILITY, AND ADVERSE EFFECTS ON NEIGHBORING PROPERTY OWNERS.
 13. THE NATURAL DRAINAGE SYSTEM SHALL GENERALLY BE PRESERVED IN PREFERENCE TO MODIFICATIONS OF THIS SYSTEM, EXCEPTING WHERE SUCH MODIFICATIONS ARE NECESSARY TO REDUCE LEVELS OF EROSION AND SEDIMENT AND ADVERSE EFFECTS ON NEIGHBORING PROPERTY OWNERS.
 14. ALL DRAINAGE SYSTEMS SHALL BE DESIGNED TO HANDLE ADEQUATELY ANTICIPATED FLOWS, BOTH WITHIN THE SITE AND FROM UPSTREAM DRAINAGE BASIN.
 15. SUFFICIENT GRADES AND DRAINAGE FACILITIES SHALL BE PROVIDED TO PREVENT THE PONDING OF WATER, UNLESS SUCH PONDING IS PROPOSED WITHIN SITE PLANS, IN WHICH EVENT THERE SHALL BE SUFFICIENT WATER FLOW TO MAINTAIN PROPOSED WATER LEVELS AND TO AVOID STAGNATION.
 16. THERE SHALL BE PROVIDED WHERE NECESSARY TO MINIMIZE EROSION AND SEDIMENT SUCH MEASURES AS BENCHES, BERMS, TERRACES, DIVERSIONS AND SEDIMENT, DEBRIS AND RETENTION BASINS.
 17. DRAINAGE SYSTEMS, PLAN TINGS AND OTHER EROSION OR SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED AS FREQUENTLY AS NECESSARY TO PROVIDE ADEQUATE PROTECTION AGAINST EROSION AND SEDIMENT AND TO ENSURE THAT THE FREE FLOW OF WATER IS NOT OBSTRUCTED BY THE ACCUMULATION OF SILT, DEBRIS OR OTHER MATERIAL OR BY STRUCTURAL DAMAGE.

LIMITS OF DISTURBANCE
 THE PROPOSED SINGLE FAMILY RESIDENTIAL DEVELOPMENT WILL DISTURB A TOTAL OF 2.5 ACRES BASED ON NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT No. GP-0-10-001 THE PROPOSED DEVELOPMENT DOES NOT REQUIRE A SWPPP SINCE DISTURBANCE IS LESS THAN 5 ACRES. THEREFORE THE PROPOSED DEVELOPMENT DOES NOT REQUIRE ANY PERMANENT STORMWATER MANAGEMENT FACILITIES FOR WATER QUALITY OR PEAK DISCHARGES.



EROSION AND SEDIMENTATION CONTROL PLAN

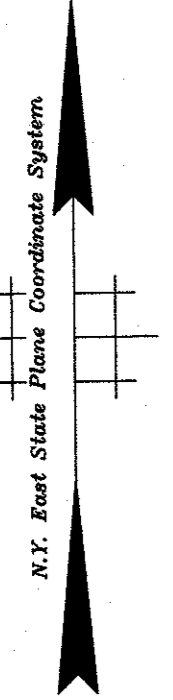


LEGEND

PROPERTY LINE EXISTING	---	EDGE OF WOODS	---
PROPERTY LINE PROPOSED	---	DEPRESSED CURB	---
SETBACKS	---	ELECTRIC METER	⊠
EXISTING CONTOUR 2'	---	ELECTRIC BOX	⊠
EXISTING CONTOUR 10'	---	WATER WELL	⊙
PROPOSED CONTOUR 2'	---	CONCRETE FOOTING	⊠
PROPOSED CONTOUR 10'	---	CATCH BASINS	⊠
EXISTING SINGLE FAMILY RESIDENCE UNDER CONSTRUCTION	---	MAIL BOX	⊠
PROPOSED SINGLE FAMILY RESIDENCE	---	DROP CURB	OC
FINISHED FIRST FLOOR ELEV.	FF	LANDSCAPED AREA	LSA
BASEMENT FLOOR ELEV.	BF	TYPICAL	(MP)
LOWEST SEWERABLE ELEVATION	LSE	EVIDENCE FOUND	⊙ ⊕ ⊕
GARAGE FLOOR ELEVATION	G		

TARBEN WAY
 (ASPHALT ROADWAY)
 (TWO WAY TRAFFIC)

STABILIZED CONSTRUCTION ENTRANCE (TYP.)



LOT # 12
 295,524 S.F.
 6.78 ACRES

LOT # 11
 115,935 S.F.
 2.66 ACRES

EMERGENCY VEHICLE TURN AROUND

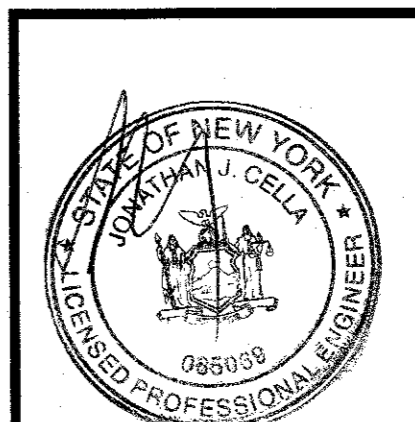
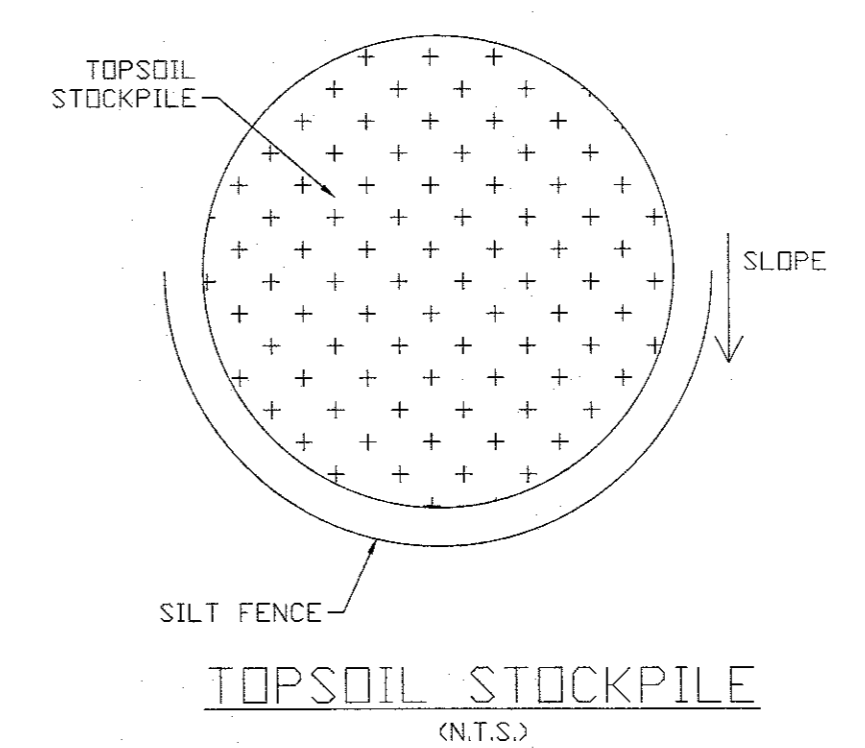
TOPSOIL STOCKPILE (TYP.)

SILT FENCE (TYP.)

FEDERAL WETLAND (SEE NOTE 4)

50' WIDE R.O.W. AS PER OCCO FM #274-16

50' WIDE R.O.W. AS PER OCCO FM #274-16



JONATHAN CELLA, P.E.
 N.Y.S. P.E. LIC. NO. 085069

EROSION AND SEDIMENTATION CONTROL PLAN

PROPOSED TWO (2) LOT
 RESIDENTIAL SUBDIVISION FOR:
 LYNN WARREN
 TARBEN WAY
 LOT # 12 FILED MAP 274.16 (S/B/L: 127 - 1 - 12)
 TOWN OF NEWBURGH
 ORANGE COUNTY, NEW YORK
 TOWN OF NEWBURGH APPLICATION # 21-18
 JONATHAN CELLA, P.E.
 51 HUNT ROAD

DATE:	WALKKILL, NEW YORK 12589	DRAWN BY:	JJC
07/01/2023	(845) 741-0363 jonathancell@icloud.com		
SCALE:	AS NOTED	SHEET NO.:	6 OF 6
REVISIONS:			
1. 12/29/2023:	IN HOUSE REVISIONS		
2. 03/15/2024:	PER OCDDH 03/11/2024 COMMENTS AND P.B. SUBMISSION		
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