

# TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: HUDSON ASSET HOMES LLC

PROJECT NO.: 2022-10

PROJECT LOCATION: SECTION 34, BLOCK 1, LOT 25.15

REVIEW DATE: 27 MAY 2022 MEETING DATE: 2 JUNE 2022

PROJECT REPRESENTATIVE: ENGINEERING & SURVEYING PROPERTIES

- 1. The surveying plan must be stamped by a NYS Licensed Surveyor. Several of the lot lines lack metes and bounds labels on the plans. A lot frontage line and lots around the recently constructed residence do not have metes and bounds or courses and distances labeled on the subdivision plan. Internal lot lines must be labeled.
- 2. The plans have been revised to re-locate the driveway to the previous farm road crossing with the existing culvert proposed to be upgraded.
- 3. A Ultimate Development Plan/ build out figure has been provided with the EAF depicting additional residences, which could be constructed on the plan.
- 4. A review of the revised EAF does not reveal any significant environmental constraints on the property. No Threatened or Endangered Species are identified and no Archeological sites.
- 5. Plan must be submitted to Orange County Planning as project is located near the NYS Thruway.
- 6. The undersigned discussed the project with the Water Superintendent. Water Superintendent has requested the applicant provide calculations for sizing of the water services based on the distance from the main to the structures.
- 7. An architectural review for the proposed two family houses are required.
- 8. Septic system notes must be added to the plans requiring submission of an As-Built Plan and certification by a NYS Design Professional prior to issuance of a Certificate of Occupancy.
- 9. Adjoiner's Notices must be sent at this time since plan revisions have been undertaken since the last meeting.
- 10. Driveway access and maintenance agreement continues to be required.

11. Highway Superintendents comments on driveway location should be received.

Respectfully submitted,

MHE Engineering, D.P.C.

Patril & Offenes

Patrick J. Hines Principal

PJH/kbw



Montgomery Office:

71 Clinton Street Montgomery, NY 12549 phone: (845) 457-7727 fax: (845) 457-1899 Warwick Office: 17 River Street Warwick, NY 10990 phone: (845) 986-7737 fax: (845) 986-0245

www.EngineeringPropertiesPC.com

MHE Engineering, D.P.C.

May 19, 2022

Town of Newburgh Planning Board 21 Hudson Valley Professional Plaza Newburgh, NY 12550

ATTN: John Ewasutyn, Chairman

RE: W.O. # 1051.11

PB APPLICATION 2022-10
HUDSON ASSET HOMES LLC
TAX LOT # 34-1-25.15
COMMENT RESPONSE

Dear Mr. Ewasutyn:

We are in receipt of the comment memo regarding the above-mentioned project dated May 2, 2022 from MH&E Consulting Engineers, D.P.C. Below is a comment-by-comment response;

- 1. No response required.
- 2. The proposed driveway has been relocated to the previously approved location of the 24" HDPE culvert pipe. The Subdivision Plan on Sheet C-102 indicates that the 24" HDPE pipe is to be installed at 1.0% minimum per filed map 242-17.
- 3. A driveway access and maintenance agreement will be prepared as a condition of final approval.
- 4. A Build Out Figure (F-1) has been attached to the Full Environmental Assessment Form.
- 5. No response required.
- 6. Note #7 on Sheet C-101 indicates that the wetlands delineation depicted on the plan set was set by Michael Nowicki, wetland biologist.
- 7. The applicant will have architectural drawings prepared for ARB approval.
- 8. See response to comment #2 above.
- 9. The length of driveway to Lot 1 is 490.88 feet. The length of driveway to Lot 2 is 458.58 feet. Section 511 of the fire code states that turnarounds and turnouts are required for driveways in excess of 500 feet therefore none are required.

- 10. The plan set has been submitted to the Highway Superintendent for review. Correspondence from the Highway Superintendent will be forwarded to the Board once it is received.
- 11. The plan set has been submitted to the Water Superintendent for review.

  Correspondence from the Water Superintendent will be forwarded to the Board once it is received.
- 12. The water service is proposed to be 1" type "K" copper tubing.

If you have any additional questions and/or comments please don't hesitate to contact this office.

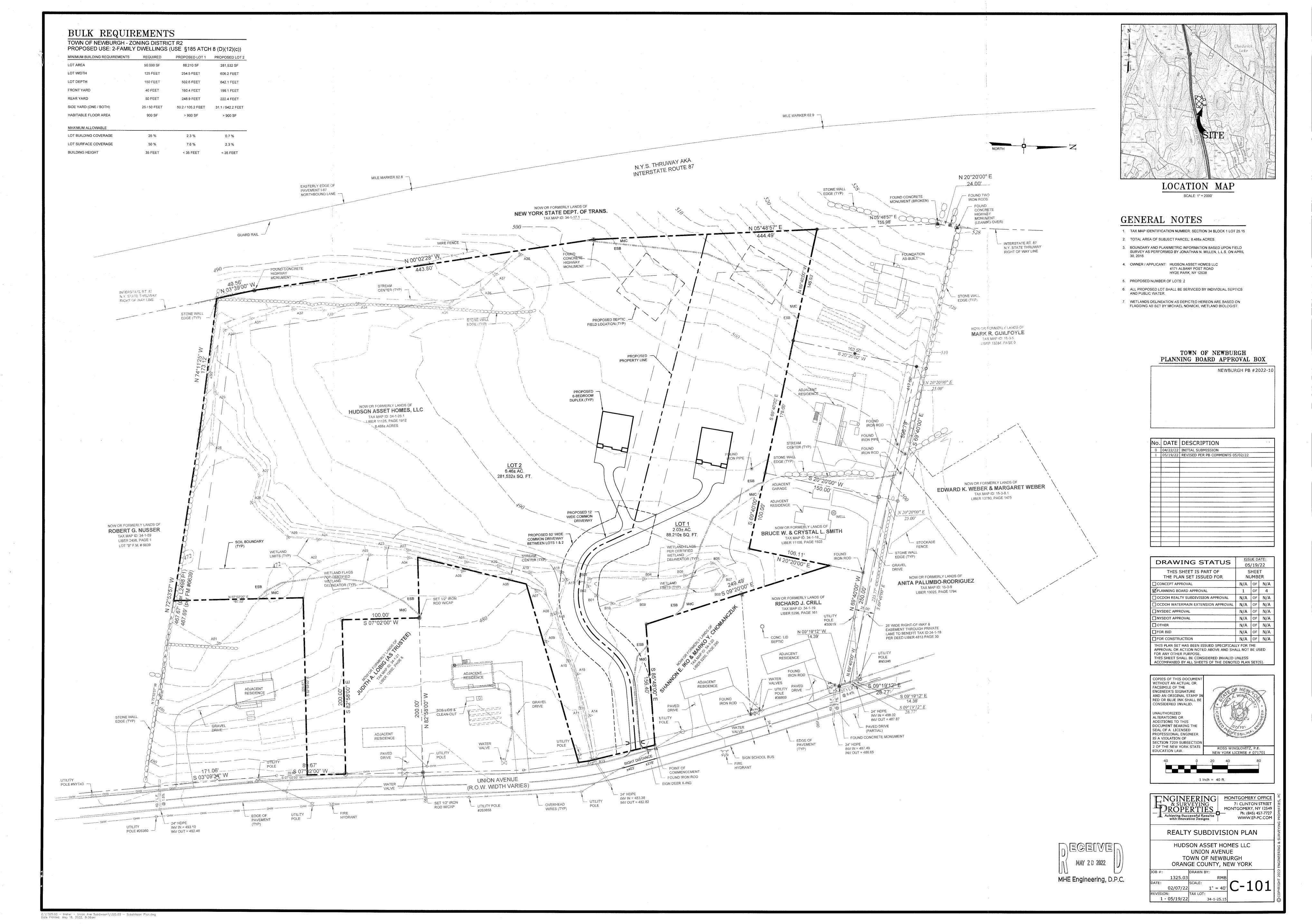
Sincerely,

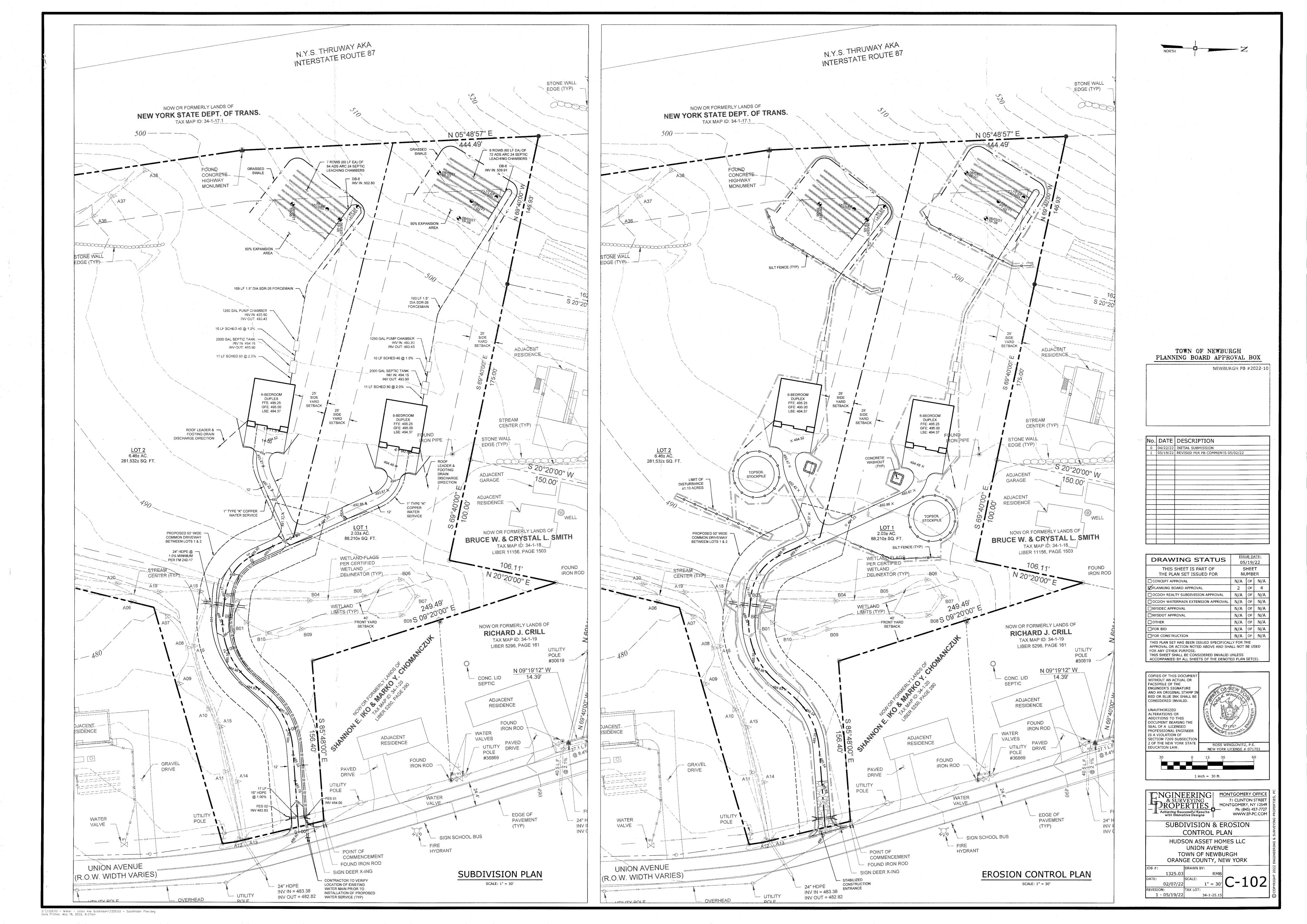
Engineering & Surveying Properties, PC

Ross Winglovitz, P.E.

Principal

Reuben Buck Project Engineer





## SEPTIC SYSTEM DESIGN SCHEDULE

LOT	NUMBER OF BEDROOMS	DESIGN PERC RATE (min)	FLOW RATE (GPD)	APPLICATION RATE (GPD/Sq. ft.)	REQUIRED AREA (Sq. ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft)	REQUIRED FIELD LENGTH (ft) BASED USING GRAVELESS CHAMBERS (25% REDUCTION)	PROPOSED ABSORPTION FIELD LENGTH (ft)
1	6	16	660	0.70	943	472	354	6 LATERALS @ 60' 6 ROWS OF 12 CHAMBERS
2	6	23	660	0.60	1100	551	413	7 LATERALS @ 60' 7 ROWS OF 12 CHAMBERS

## PERCOLATION TEST RESULTS

LOT#	PERC HOLE#	PERC HOLE	PERC HOLE	TIME		STOPWATCH US				STABLIZEI RATE										
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1	10/01/21 PT-01	48"	8"	FINISH START	STOF	WATCH USED F	OR TIMED INTE	RVALS	:	16 MIN										
	· I - U I			TIME	00:06:24	00:11:07	00:15:14	00:15:49												
***************************************	10/01/21 PT-03	· · · · · · · · · · · · · · · · · · ·		FINISH				A. C.	and the second s											
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						TIME	00:00:56	00:01:30	00:01:33		;-									
	10/01/21 PT-04			FINISH																
2		48"	8" START	START		STOPWATCH	USED FOR TIME	D INTERVALS		8 MIN										
		I I TOT	***************************************		TIME	00:04:40	00:06:46	00:07:34	00:07:51											
	10/01/21 PT-05		***************************************	FINISH	and the flag class converse construction control of the control of				i											
2			48"	8"	START	antientus etimos at antie punt munemana	STOPWATCH	1 USED FOR TIMED INTERVALS 2	23 MIN											
				TIME	00:14:50	00:17:58	00:19:44	00:21:39	00:22:29	A.117										

# DEEP TEST HOLE RESULTS

LOT#	TEST HOLE#	DATE	DEPTH	DESCRIPTION
1	TP-07	08/03/21	0" - 10" 10" - 42" 42" - 84"	TOPSOIL TAN, SILTY, CLAY LOAM BROWN, SILTY, SANDY, GRAVEL LOAM WITH LARGE COBBLE NO ROCK, MOTTLING @ 72", SEEPAGE @ 76"
1	TP-08	08/03/21	0" - 6" 6" - 37" 37" - 84"	TOPSOIL TAN, SILTY, CLAY LOAM BROWN, SILTY, SANDY, GRAVEL LOAM WITH LARGE COBBLE NO ROCK, NO GROUNDWATER
2	TP-05	08/03/21	0" - 8" 8" - 36" 36" - 84"	TOPSOIL TAN, SILTY, CLAY LOAM WITH COBBLE BROWN, SILTY, SANDY, GRAVEL LOAM WITH COBBLE NO ROCK, NO GROUNDWATER
2	TP-06	08/03/21	0" - 6" 6" - 38" 38" - 84"	TOPSGIL TAN, SILTY, CLAY LOAM WITH COBBLE BROWN, SILTY, SANDY, GRAVEL LOAM WITH COBBLE NO ROCK, NO GROUNDWATER

PUMP STATION CALCULATIONS

360 LF x  $(3.14)(.33)^2 / 4 = 30.8$  CF x 7.48 GAL/CF = 230 GALLONS (TILE FIELD) 192 LF x (3.14)(.12)  $^2$  / 4 = 2.2 CF x 7.48 GAL/CF = 16 GALLONS (FORCE MAIN)

ELEVATION BETWEEN PUMP OFF TO PUMP ON TRY 8" OR 0.67'

24 HOUR STORAGE HEIGHT = 88.2 CF / (9.5 FT x 4.5 FT) = 2.06 FT

4. CONSTRUCTION JOINT TO BE SEALED WITH BUTYL RUBBER SEALANT

ELECTRICAL JUNCTION BOX - A8-1J

MERCURY FLOAT SWITCH - A2K23

1.5" BALL VALVE - FBALLVALVE-2

1.5" FLAP CHECK VALVE - FFLAPCHECK-2

10' LIFT CABLE - ACBL-10 1.5" UNION - FUNION-2

STAINLESS STEEL FLOAT BRACKET - FSB1

1. PRECAST CONCRETE PUMP CHAMBER AS MFG. BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL-

5. CONTROL PANEL AS MFG. GOULDS PUMPS, INC. MODEL SES SERIES CUSTOMIZED CONTROL PANEL-

6. ALL ELECTRICAL WORK SHALL MEET WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION

9 1 1.5" NPT THREADED ADAPTER - FMA-2
10 1 GOULDS SIMPLEX CONTROL PANEL W/ALARM - WOODARDS MODEL # S10020N1

7. PUMP STATION(S) SHOULD BE INSPECTED PERIODICALLY BY A PROPERLY TRAINED PERSON FOR

PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE.

SCHEDULE OF MECHANICAL EQUIPMENT

DESCRIPTION & WOODARD'S MODEL #

GOULDS 3885 SUBMERSIBLE EFFLUENT PUMP- WOODARDS MODEL # - GP-WE05H

NEMA 1 SIMPLEX CONTROLLER WITH ALARM. CONTROL PANEL IS TO BE MOUNTED INDOORS AND

9.5 FT x 4.5 FT x 0.67 FT = 28.5 CF = 213 GAL

24 HOUR STORAGE = 660 GAL / 7.48 GAL/CF = 88.2 CF

24 HOUR STORAGE AVAILABLE TO INVERT IN = 2.74 FT

GT 750, W/ (2) 24" DIA COVERS OR APPROVED EQUAL

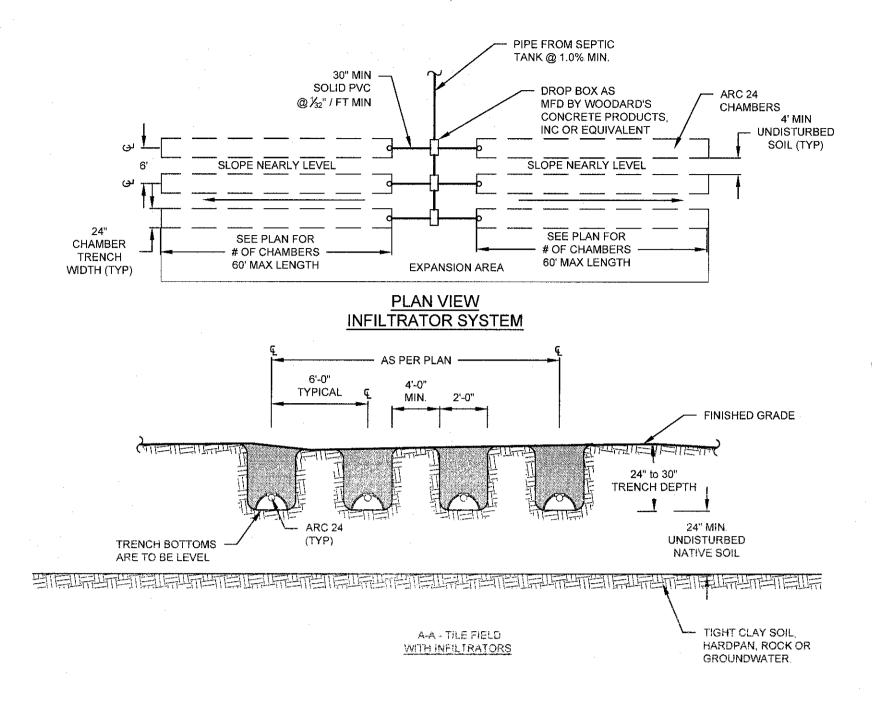
213 GAL / (230 + 16) GAL = 87%

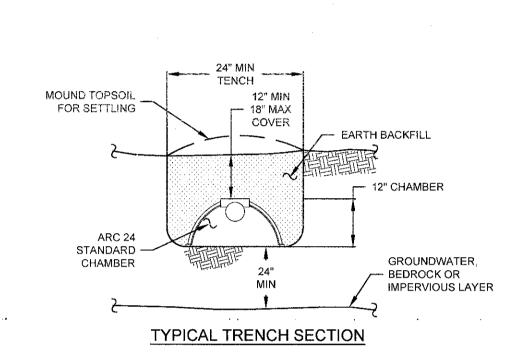
24 HOUR STORAGE CALCULATIONS:

2. CONCRETE - 4,000 PSI AT 28 DAYS

WIRED TO CIRCUIT BREAKER.

3. REINFORCEMENT - WWM, #4 REBAR



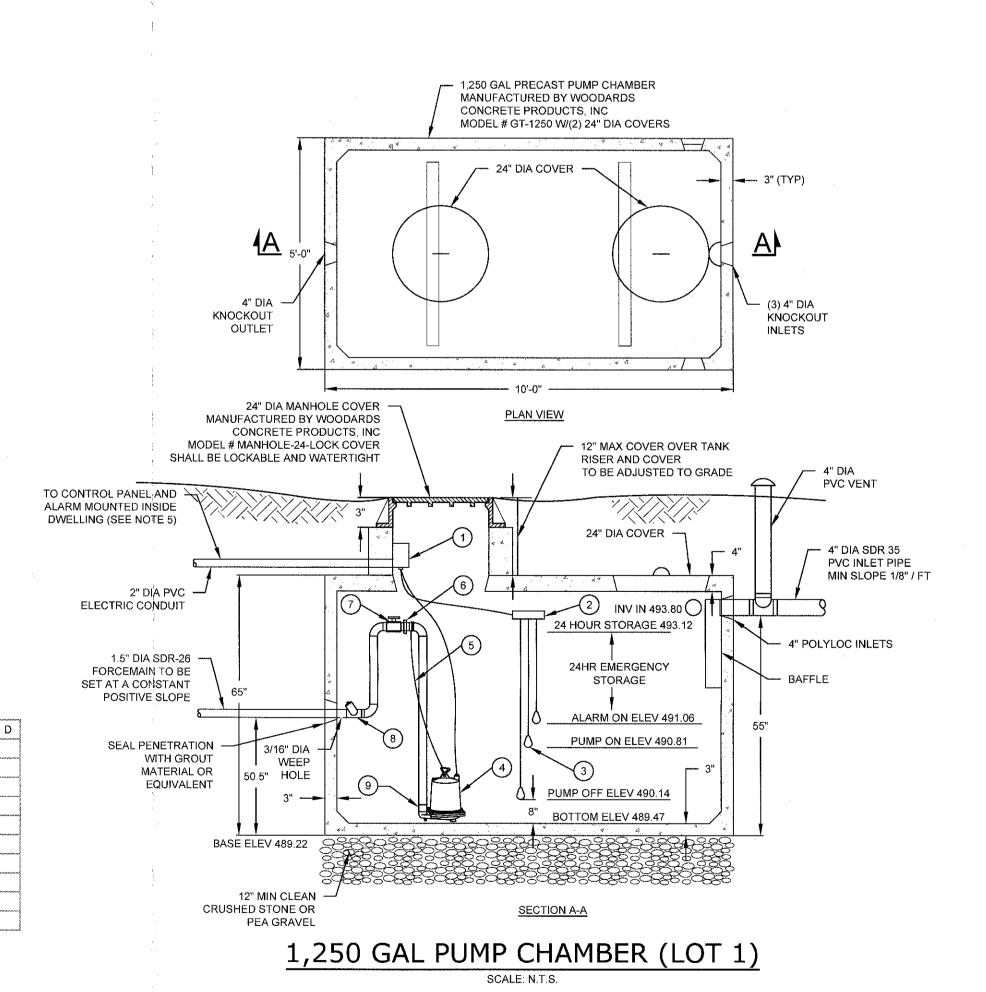


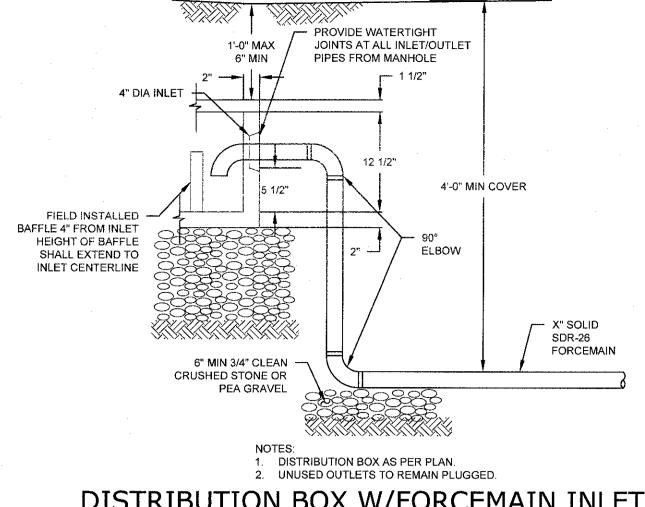
SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM THE BUILDING. . ASPHALTIC SEALS SHALL BE MAINTAINED BETWEEN THE S NO TRENCHES TO BE INSTALLED IN WET SOIL. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING CHAMBERS IN ABSORPTION TRENCH GROUT ALL PIPE PENETRATIONS INTO AND OUT OF ANY DISTRIBUTION OR DROP BOX. 8. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION SYSTEMSS - DESIGN HANDBOOK, 2012 AND OCDOH DESIGN POLICY & STANDARDS - APPENDIX 75-A. 9. ABSORPTION CHAMBER TO BE CAPPED AT ENDS. 10. PROVIDE A MINIMUM OF 30" OF SOLID PIPE PRIOR TO START OF LEACHING CHAMBERS AND BE BACKFILLED WITH NATIVE MATERIAL. 11. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE 12. 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 TO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON WHICH 13. THIS SYSTEM HAS NOT BEEN DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI STYLE

SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS AND SHALL NOT BE INSTALLED WITHOUT

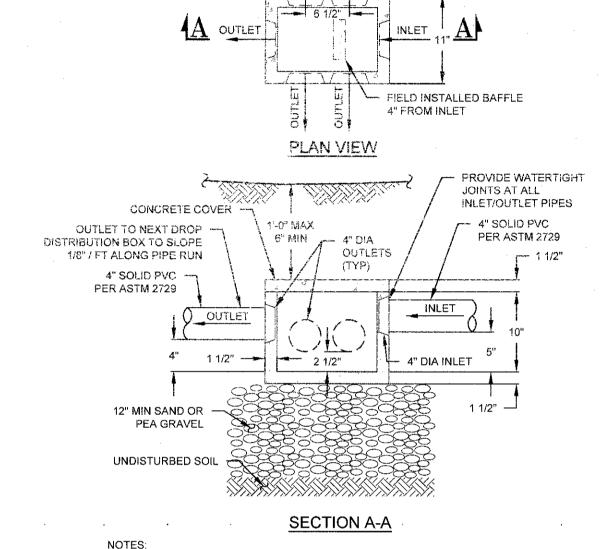
ADDITIONAL REVIEW AND AND APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH.

## ABSORPTION TILE FIELD OVERALL PLAN





DISTRIBUTION BOX W/FORCEMAIN INLET



1. DROP BOX AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. CATALOG No. DB-6DB OR APPROVED EQUAL. 2. MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT. 5. PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS. . UNUSED OUTLETS TO REMAIN PLUGGED. 7. DISTRIBUTION BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.

## 6 HOLE DROP DISTRIBUTION BOX

4" DIA --

24" DIA MANHOLE COVER -

MANUFACTURED BY WOODARDS

MODEL # MANHOLE-24-LOCK COVER

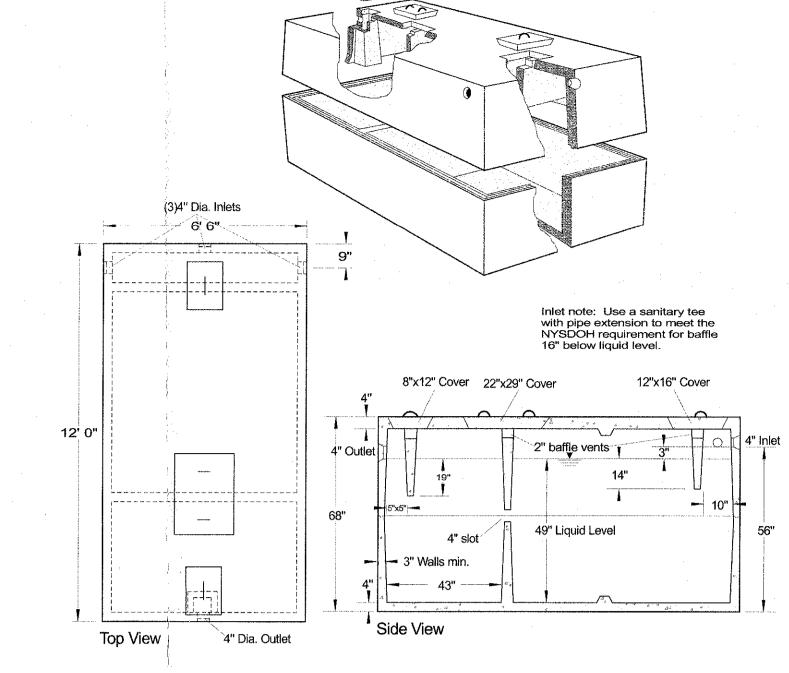
12" MIN CLEAN ---

CRUSHED STONE OR

SHALL BE LOCKABLE AND WATERTIGHT

CONCRETE PRODUCTS, INC.

KNOCKOUT



SPECIFICATIONS	DDECACT CEDTIC TANKS
Concrete Min. Strength: 4,000 psi at 28 days Reinforcement: #4 Rebar gr.60, 6x6x10ga, WWM	PRECAST SEPTIC TANKS MODEL ST-2000 / 2000 GALLONS
Air Entrainment: 6% Construction Joint: Butyl Rubber Sealant Pipe Connection: Polylok Seal (patented) Weight = 15,500 lbs	Woodard's Concrete Products, Inc. 629 Lybolt Road, Bullville, NY 10915 (845) 361-3471 / Fax 361-1050
Load Rating: 300 psf	Page 5A 7/18/14

www.woodardsconcrete.com 2,000 GAL SEPTIC TANK

- (3) 4" DIA

INLETS

KNOCKOUT

PVC INLET PIPE

4" POLYLOC INLETS

MIN SLOPE 1/8" / FT

— 1,250 GAL PRECAST PUMP CHAMBER

MANUFACTURED BY WOODARDS

MODEL # GT-1250 W/(2) 24" DIA COVERS

12" MAX COVER OVER TANK

TO BE ADJUSTED TO GRADE

RISER AND COVER

24" DIA COVER ---

(2) INV IN 493.80 (

24 HOUR STORAGE 493.20

24HR EMERGENCY

STORAGE

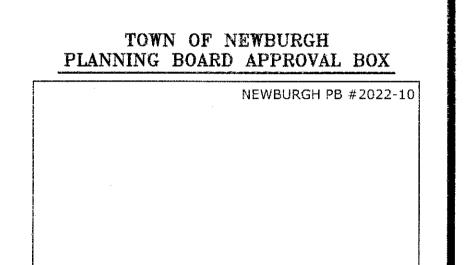
ALARM ON ELEV 491.14

PUMP ON ELEV 490.89

SECTION A-A

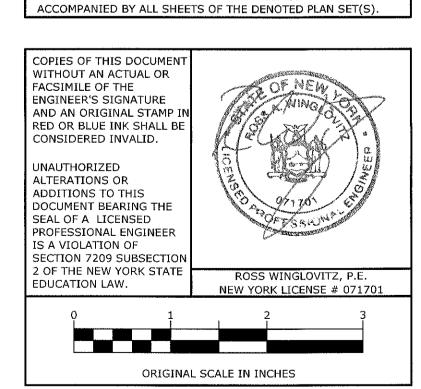
1,250 GAL PUMP CHAMBER (LOT 2)

CONCRETE PRODUCTS, INC.



Νo.	DATE	DESCRIPTION
0	04/22/22	INITIAL SUBMISSION
1	05/19/22	

DRAWING STATUS	ISS	ISSUE DATE:			
DRAWING STATUS	05/19/22				
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER				
CONCEPT APPROVAL	N/A	OF:	N/A		
☑ PLANNING BOARD APPROVAL	3	OF	4		
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A		
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A		
NYSDEC APPROVAL	N/A	OF	N/A		
□NYSDOT APPROVAL	N/A	OF	N/A		
OTHER	N/A	OF	N/A		
FOR BID	N/A	OF	N/A		
☐ FOR CONSTRUCTION	N/A	OF	N/A		
THIS PLAN SET HAS BEEN ISSUED SPECIFICAL APPROVAL OR ACTION NOTED ABOVE AND SHAFOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID	ALL NOT		SED		



PROPE	VEYING -	10NTGOMERY OFFICE 71 CLINTON STREET 10NTGOMERY, NY 12549 Ph: (845) 457-7727 WWW.EP-PC.COM							
DETAILS									
HUDSON ASSET HOMES LLC UNION AVENUE TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK									
OB #: 1325.03	DRAWN BY:								
02/07/22	SCALE: AS NOTED	C-301							

34-1-25.15

1 - 05/19/22

## PUMP STATION CALCULATIONS

PUMP VOLUME CALCULATIONS: 420 LF x (3.14)(.33) <sup>2</sup> / 4 = 35.9 CF x 7.48 GAL/CF = 269 GALLONS (TILE FIELD) 170 LF x  $(3.14)(.12)^2/4 = 1.9$  CF x 7.48 GAL/CF = 14 GALLONS (FORCE MAIN) ELEVATION BETWEEN PUMP OFF TO PUMP ON TRY 9" OR 0.75' 9.5 FT x 4.5 FT x 0.75 FT = 32.1 CF = 240 GAL 240 GAL / (269 + 14) GAL = 85%

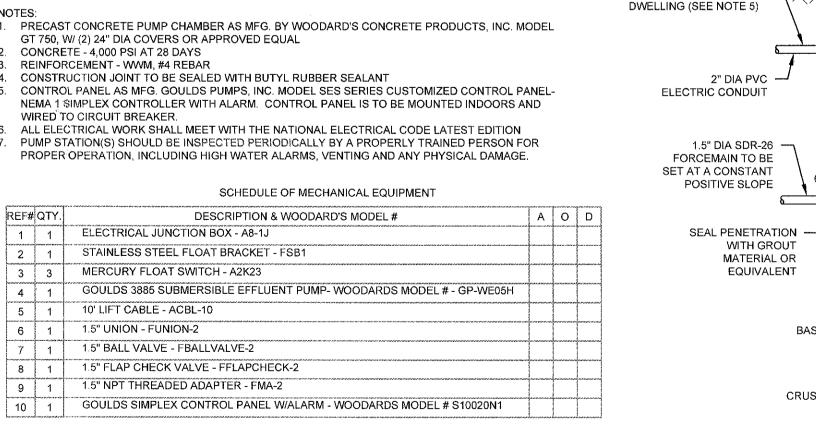
#### 24 HOUR STORAGE CALCULATIONS: 24 HOUR STORAGE = 660 GAL / 7.48 GAL/CF = 88.2 CF 24 HOUR STORAGE HEIGHT = 88.2 CF / (9.5 FT x 4.5 FT) = 2.06 FT

24 HOUR STORAGE AVAILABLE TO INVERT IN = 2.66 FT

1. PRECAST CONCRETE PUMP CHAMBER AS MFG. BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL GT 750, W/ (2) 24" DIA COVERS OR APPROVED EQUAL CONCRETE - 4,000 PSI AT 28 DAYS

REINFORCEMENT - WWM, #4 REBAR 4. CONSTRUCTION JOINT TO BE SEALED WITH BUTYL RUBBER SEALANT 5. CONTROL PANEL AS MFG. GOULDS PUMPS, INC. MODEL SES SERIES CUSTOMIZED CONTROL PANEL-NEMA 1 SIMPLEX CONTROLLER WITH ALARM. CONTROL PANEL IS TO BE MOUNTED INDOORS AND WIRED TO CIRCUIT BREAKER. 6. ALL ELECTRICAL WORK SHALL MEET WITH THE NATIONAL ELECTRICAL CODE LATEST EDITION

		SCHEDULE OF MECHANICAL EQUIPMENT			
REF#	QTY.	DESCRIPTION & WOODARD'S MODEL #	Α	0	D
1	1	ELECTRICAL JUNCTION BOX - A8-1J			
2	1	STAINLESS STEEL FLOAT BRACKET - FSB1			
3	3	MERCURY FLOAT SWITCH - A2K23	<i>Gummun</i>	60.00000	
4	1	GOULDS 3885 SUBMERSIBLE EFFLUENT PUMP- WOODARDS MODEL # - GP-WE05H	· ·		
5	1	10' LIFT CABLE - ACBL-10	hmmmm	Januar	ansau.n.
6	1	1.5" UNION - FUNION-2	Samman.		
7	1	1.5" BALL VALVE - FBALLVALVE-2	·		
8	1	1.5" FLAP CHECK VALVE - FFLAPCHECK-2	-	-	



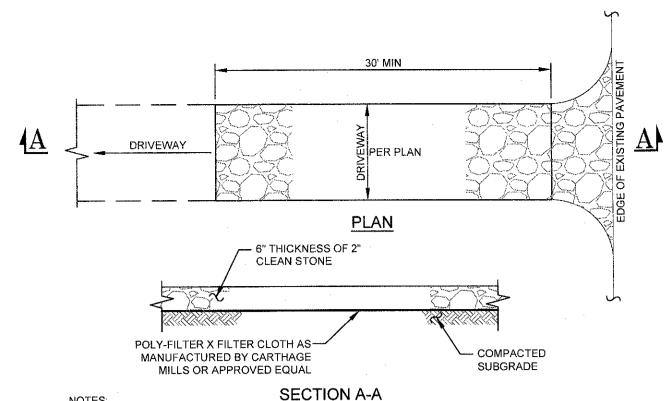
TO CONTROL PANEL AND

ALARM MOUNTED INSIDE

PROPER OPERATION, INCLUDING HIGH WATER ALARMS, VENTING AND ANY PHYSICAL DAMAGE. COLLEGE OF MEGNANION FOLLOWERS 9 1 1.5" NPT THREADED ADAPTER - FMA-2 10 1 GOULDS SIMPLEX CONTROL PANEL W/ALARM - WOODARDS MODEL # S10020N1



Z:\1325.03 — Maher — Union Ave Subdivison\1325.03 — Subdivision Plan.dwg Date Printed: May 18, 2022, 8:07am



NOTES: 1. STONE SIZE - USE 2" STONE MIN, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 2. WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF DRIVEWAY AT POINTS WHERE INGRESS OR EGRESS OCCURS.

3. 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. 4. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF- WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT, ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. 5. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY, WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH

6. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH SIGNIFICANT

STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE SCALE: N.T.S.

2" ASPHALT CONCRETE -

(NYS ITEM 304.05) OR EQUIVALENT

NOTES:

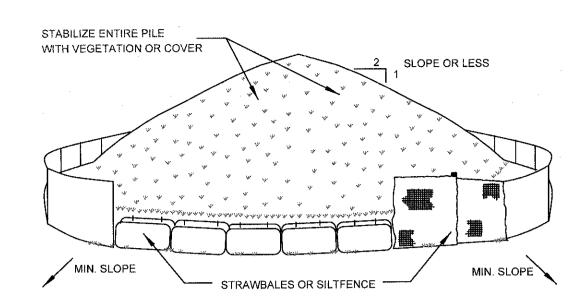
1. ITEM NUMBERS REFER TO NYSDOT SPECS.

2. PAVEMENT TO EXTEND FROM CURB TO RIGHT OF WAY LINE.

SCALE: N.T.S.

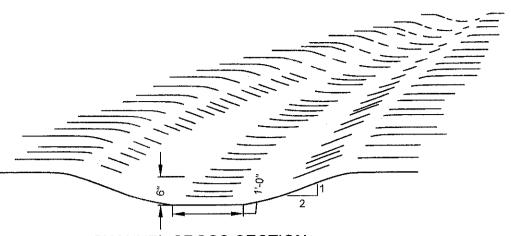
- 6" SUB-BASE

TOP COURSE



1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. ... MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR

4. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE. SOIL STOCKPILING

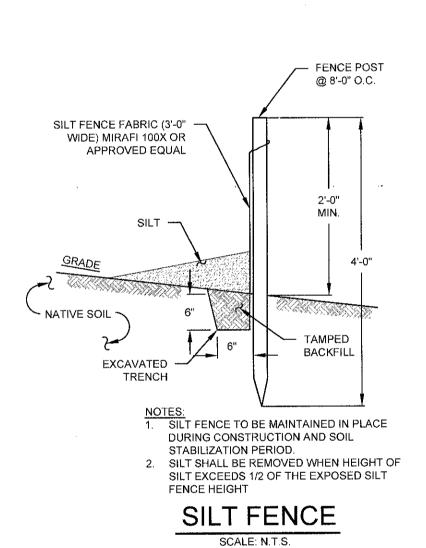


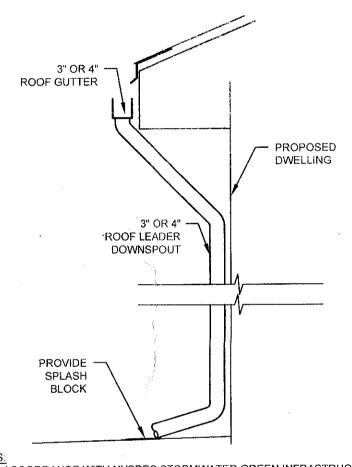
CHANNEL CROSS-SECTION

**CONSTRUCTION SPECIFICATIONS:** 

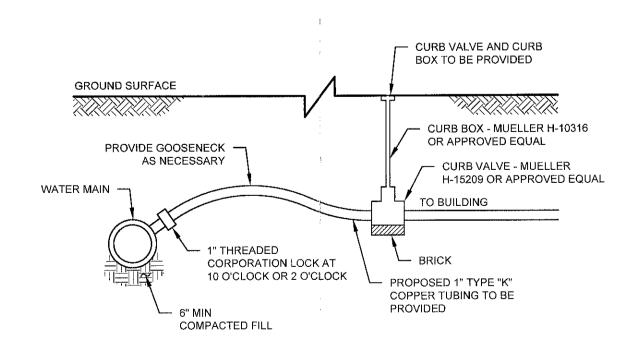
- 1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- 2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL
- 3. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE
- 4. FILL SHALL BE COMPACTED AS NEEDED IN CONSTRUCTION TO PREVENT UNEQUAL
- SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED WATERWAY. 5. WATERWAY SHALL BE SEEDED AND STABILIZED JUTE OR EXCELSIOR MATTING

UNTIL THE VEGETATION IS ESTABLISHED.





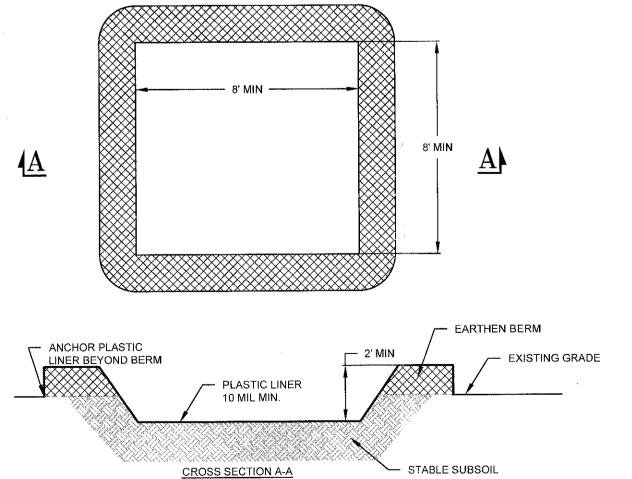
1. IN ACCORDANCE WITH NYSDEC STORMWATER GREEN INFRASTRUCTURE REQUIREMENTS, ALL ROOF LEADER DOWNSPOUTS SHALL DISCHARGE EFFLUENT ALONG THE SURFACE FOR INFILTRATION. CONNECTION OF ROOF LEADERS TO CLOSED SYSTEMS IS PROHIBITED. HOMEOWNERS SHALL MAINTAIN SPLASH BLOCK LAWN AREA AS SHOWN ON THE PLANS TO PROVIDE INFILTRATION OF STORMWATER ROOF RUNOFF.



WATER SYSTEM NOTES: 1. CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE TOWN OF NEWBURGH. 2. ALL WATER SERVICE LINE TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020 FOR 3/4 AND 1 INCH, MUELLER H-15000 OR B-25000 FOR 1 OR 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1501-2 FOR  $\frac{3}{4}$  AND 1 INCH AND MUELLER B-25204 FOR  $1\frac{1}{2}$  AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10312 FOR ¾ AND 1 INCH AND MUELLER H-10310 FOR ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR

DOMESTIC WATER SERVICE CONNECTION

COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH



1. PLASTIC LINER SHALL BE INSPECTED DAILY TO ENSURE THAT THERE ARE NO HOLES OR TEARS, IF ANY HOLES OF TEARS ARE FOUND THE LINER SHALL BE REPLACED AND CLEANED IMMEDIATELY. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY. WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS. 8. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF.

4. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL **CONCRETE WASHOUT** 

SCALE: N.T.S.

### EROSION AND SEDIMENTATION CONTROL NOTES

- 1. SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION. 2. TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES AND/OR STRAW BALE DIKES,
- SEDIMENT BASIN, TEMPORARY DIVERSION SWALE DRAINAGE STRUCTURES, AND RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION.
- 3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT RE-ESTABLISHMENT OF VEGETATION: 3.1. AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING
- SURFACE DEBRIS AND OBSTACLES. 3.2. LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0. 3.3. FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED PER SOIL TEST RESULTS OR AT
- A RATE OF 600 LBS, PER ACRE. 3.4. DISTURBED AREAS WHICH WILL REMAIN TEMPORARILY FALLOW FOR PERIODS GREATER THAN 30 DAYS SHALL BE SEEDED AT THE FOLLOWING RATE TO PRODUCE TEMPORARY GROUND COVER: 30 LBS, RYEGRASS (ANNUAL OR PERENNIAL) PER ACRE. DURING THE WINTER, USE 100 LBS.

2 LBS REDTOP OR 5 LBS RYEGRASS (PERENNIAL) PER ACRE

PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.

- CERTIFIED "AROOSTOCK" WINTER RYE (CEREAL RYE) PER ACRE. 3.5. PERMANENT SEEDING SHALL BE APPLIED ON 4" MIN TOPSOIL AT THE FOLLOWING RATE: 8 LBS EMPIRE BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER PER ACRE PLUS 20 LBS TALL FESCUE PER ACRE PLUS
- 3.6. ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED. 3.7. ALL DISTURBED AREAS SHALL BE STABILIZED SUBSEQUENT TO SEEDING BY APPLYING 2 TONS OF STRAW MULCH PER ACRE. STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR TUCKING THE MULCH WITH SMOOTH DISCS

OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH ANCHORING TOOLS SHALL BE

- 4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DRAINAGE STRUCTURES SHALL BE INSPECTED FOLLOWING EVERY RAIN EVENT, AND MAINTENANCE AND REPAIRS SHALL BE PERFORMED PROMPTLY TO MAINTAIN PROPER FUNCTION. TRAPPED SEDIMENT SHALL BE REMOVED AND DEPOSITED IN A PROTECTED AREA IN A PROPER MANNER WHICH WILL NOT RESULT IN EROSION.
- 5. TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AND GROUND COVER IS COMPLETELY REESTABLISHED. FOLLOWING STABILIZATION, TEMPORARY MEASURES SHALL BE REMOVED TO AVOID INTERFERENCE WITH
- 6. ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.
- 7. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN
- SUFFICIENT QUANTITIES. 8. MULCH NETTING SUCH AS PAPER, JUTE, EXCELSIOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN
- PLACE, OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. 9. STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING ME AND FERTILIZER AS SPECIFIED ABOVE AND SEEDING WITH THE FOLLOWING MIXTURE:
  - CROWN VETCH SPREADING FESCUE
- 10. OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15.
- 11. ALL UPSTREAM SITE WORK AND STABILIZATION SHALL OCCUR BEFORE CONNECTING UNDERGROUND DETENTION/INFILTRATION FACILITY TO PREVENT ANY ERODED SEDIMENTS FROM ENTERING UNDERGROUND FACILITY.

Type of Soil Disturbance | Soil Restoration Requirement

of topsoil HSG A &B

Aerate and

many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

of topsoil

Minimal soil disturbance Restoration not required

Restoration not permitted

HSG A &B HSG C&D

apply 6 inches | Restoration \*\*

Apply full Soil Restoration (de-

Restoration not required, but may be

applied to enhance the reduction

Soil Restoration is required on redevelopment projects in areas

where existing impervious area will be converted to pervious area.

\* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with

specified for appropriate practices.

ompaction and compost

apply 6 inches | Aerate\* and apply 6

inches of topsoil

Apply full Soil

HSG C & D

**Table 5.3 Soil Restoration Requirements** 

Preservation of Natural Features

Protect area from any ongoing

Keep construction equipment from

ossing these areas. To protect

construct a single phase operation

newly installed practice from any

ongoing construction activities

fence area

Clearing and grubbing

construction activities.

12. IN ACCORDANCE WITH THE NYSDEC SPDES GP 0-20-001, THERE SHALE BE NO MORE THAN 5 ACRES DISTURBED AT ANYONE TIME.

No soil disturbance

Areas where topsoil is

Areas of cut or fill

not within a 5 foot perimeter around

foundation walls)

Reduction and/or

Areas where Runoff

Infiltration practices are

Redevelopment projects

\*\* Per "Deep Ripping and De-compation, DEC 2008"

in grade

stripped only - no change

Heavy traffic areas on site

(especially in a zone 5-25

feet around buildings but

- EARTHWORK CONSTRUCTION NOTES
- 1. ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF NEWBURGH. 2. ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM ALL
- CONSTRUCTION AREAS. 3. ALL FILL FOR POND CONSTRUCTION, BELOW BUILDINGS AND PAVEMENT TO BE COMPACTED TO 95% OF
- MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557. 4. CELLAR, ROOF AND FOOTING DRAINS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM OR OTHER FREE-FLOWING OUTLET AT A MINIMUM SLOPE OF 0.5%. FOOTING DRAIN SHALL BE INSTALLED BENEATH
- 5. COMPLETION OF GRADING AND BASIN, BERMS AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "SEDIMENTATION EROSION CONTROL".
- 5. ALL SLOPES IN EXCESS OF 3H:1V SHALL BE CONSTRUCTED WITH LOCALLY AVAILABLE GLACIAL TILL. THE EMBANKMENT FILL SHALL BE PLACED IN SIX-INCHTHICK LIFTS, EACH LIFT SHALL BE PLACED AND COMPACTED
- TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557. 7. CONSTRUCT POND EMBANKMENT WITH LOCALLY AVAILABLE GLACIAL TILL WITH 3H:1V SIDE SLOPES OR AS
- NOTED ON PLAN. THE EMBANKMENT FILL SHALL BE PLACED IN A SIX-INCH THICK CONTINUOUS LAYER OVER THE ENTIRE LENGTH EACH LIFT SHALL BE PLACED AT OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
- 8. STABILIZATION OF POND BERMS, AND ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
- 9. ALL POND OUTLETS SHALL HAVE SEEPAGE CONTROL COLLARS PLACED AT 1/3 AND 2/3 THE WIDTH OF THE
- 10. SOIL RESTORATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL REMAIN AS PERVIOUS SURFACES. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING:
- 10.A. APPLY 3 INCHES OF COMPOST OVER SUBSOIL
- 10.B. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER,
- TRACTOR MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUB-SOILS. 10.C. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED
- 10.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.

#### SEQUENCE OF CONSTRUCTION ACTIVITY

- 1. PRE-CONSTRUCTION: NOTIFY APPROPRIATE MUNICIPAL AND UTILITY OFFICIALS 3 DAYS PRIOR TO START OF CONSTRUCTION.
- 2. CONSTRUCTION STAGING: STAKE OUT LIMIT OF DISTURBANCE. INSTALL SILT FENCE DOWNHILL OF PROPOSED CONSTRUCTION. INSTALL ORANGE CONSTRUCTION FENCING ALONG THE LIMITS OF DISTURBANCE. INSTALL
- STABILIZED CONSTRUCTION ENTRANCE(S). INSTALL PERMANENT / TEMPORARY GRASSED SWALES.
- CLEARING AND GRUBBING: REMOVE VEGETATION FROM AREA OF CONSTRUCTION. STRIP TOPSOIL AND STOCKPILE
- IN AREAS SHOWN ON THE PLAN. INSTALL SEDIMENT SEDIMENT BARRIERS AROUND AND ESTABLISH TEMPORARY
- VEGETATION ON TOPSOIL STOCKPILES. 4. ROUGH GRADING: CUT AND FILL SITE TO APPROXIMATE ELEVATIONS SHOWN ON THE PLAN. IMPLEMENT DUST
- CONTROL MEASURES AS NECESSARY. ESTABLISH PERMANENT STABLIZATION IN AREAS THAT ARE COMPLETE. ESTABLISH TEMPORARY STABLIZATION ON AREAS THAT WILL BE GRADED AGAIN MORE THAN 21 DAYS FROM LAST
- 5. DRIVEWAY / BUILDING CONSTRUCTION AND UTILITY INSTALLATION: FINAL GRADING AND CONSTRUCTION OF DRIVEWAYS, BUILDING EXCAVATION AND CONSTRUCTION. INSTALL UTILITIES, ENSURE ALL EROSION CONTROL
- MEASURES ARE IN WORKING ORDER. 6. FINAL GRADING AND LANDSCAPING: COMPLETE FINE GRADING OF SITE, SPREAD TOPSOIL AND PREPARE FOR
- PERMANENT SEEDING AND PLANTING, ESTABLISH PERMANENT VEGETATION IN ALL REMAINING UNSTABILIZED AREAS, INSTALL ALL SITE LANDSCAPING AND PLANTINGS.
- POST CONSTRUCTION: UPON STABILIZATION OF THE SITE AND ESTABLISHMENT OF ALL VEGETATION COVER,
- REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE. REMOVE ALL SILT AND DEBRIS FROM THE SITE INCLUDING ROADWAYS, CATCH BASINS AND STORM DRAINS.

#### TOWN OF NEWBURGH PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-10

No.	DATE	DESCRIPTION
0	04/22/22	INITIAL SUBMISSION
1	05/19/22	

DRAWING STATUS	O5/19/22 SHEET NUMBER			
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR				
CONCEPT APPROVAL	N/A	OF	N/	
PLANNING BOARD APPROVAL	4	OF	4	
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/	
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/	
NYSDEC APPROVAL	N/A	OF	N,	
NYSDOT APPROVAL	N/A	OF	N,	
OTHER	N/A	OF	N,	
☐ FOR BID	N/A	OF	N,	
FOR CONSTRUCTION	N/A	QF	N,	

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**DETAILS** 

ORIGINAL SCALE IN INCHES

HUDSON ASSET HOMES LLC UNION AVENUE TOWN OF NEWBURGH

ORANGE COUNTY, NEW YORK

AS NOTED 1 - 05/19/22 34-1-25.1



Z: \1325.03 - Maher - Union Ave Subdivison\1325.03 - Subdivision Plandwg