



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

**PROJECT NAME:** CROSSROADS CONSTRUCTION MANAGEMENT-SUBDIVISION  
**PROJECT NO.:** 22-15  
**PROJECT LOCATION:** UNION AVENUE  
SECTION 62, BLOCK 3, LOT 5  
**REVIEW DATE:** 30 SEPTEMBER 2022  
**MEETING DATE:** 6 OCTOBER 2022  
**PROJECT REPRESENTATIVE:** ENGINEERING AND SURVEYING PROPERTIES, PC

1. The project is before the Board for a Public Hearing on the three-lot subdivision.
2. Driveway Access and Maintenance Agreement must be provided.
3. Coverage under the NYSDEC Construction Stormwater Program must be obtained. This office will process a Municipal Authorization form upon request.
4. Note 12 on the plans should be modified to state that the As Built Plan certification shall be submitted to the Building Department prior to issuance of Certificate of Occupancy on any individual lot.

Respectfully submitted,

**MHE Engineering, D.P.C.**

A handwritten signature in dark blue ink, appearing to read 'Patrick J. Hines'.

Patrick J. Hines  
Principal

PJH/kbw

**NEW YORK OFFICE**

33 Airport Center Drive, Suite 202, New Windsor, NY 12553  
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**PENNSYLVANIA OFFICE**

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

[www.EngineeringPropertiesPC.com](http://www.EngineeringPropertiesPC.com)

September 21, 2022

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

**ATTN: John Ewasutyn, Chairman**

**RE: W.O. # 1325.04  
PB APPLICATION 2022-15  
CROSSROADS CONSTRUCTION & MANAGEMENT LLC  
TAX LOT # 62-3-5  
COMMENT RESPONSE**

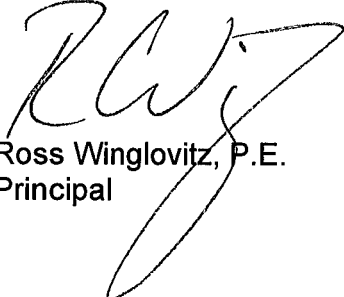
Dear Mr. Ewasutyn:

We are in receipt of the comment memo regarding the above-mentioned project dated August 26, 2022 from MH&E Consulting Engineers, D.P.C. Below is a comment-by-comment response;


1. This office respectfully requests that the driveway access and maintenance agreement be conditions of final approval.
2. Per the Planning Board engineer, the Highway Superintendent takes no exception to the proposed driveway locations.
3. No response required.
4. This office respectfully requests that coverage under the NYSDEC Stormwater Program be a condition of final approval.
5. This office respectfully requests that a Public Hearing be scheduled for the October 6, 2022, Planning Board meeting.
6. The Town of Newburgh Water System notes have been included on Sheet C-301 of the site plan.
7. General Note #12 on Sheet C-101 states that an as-built plan and certification by a NYS Design Professional shall be provided to certify that the construction of the septic system is consistent with the approved plans.

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

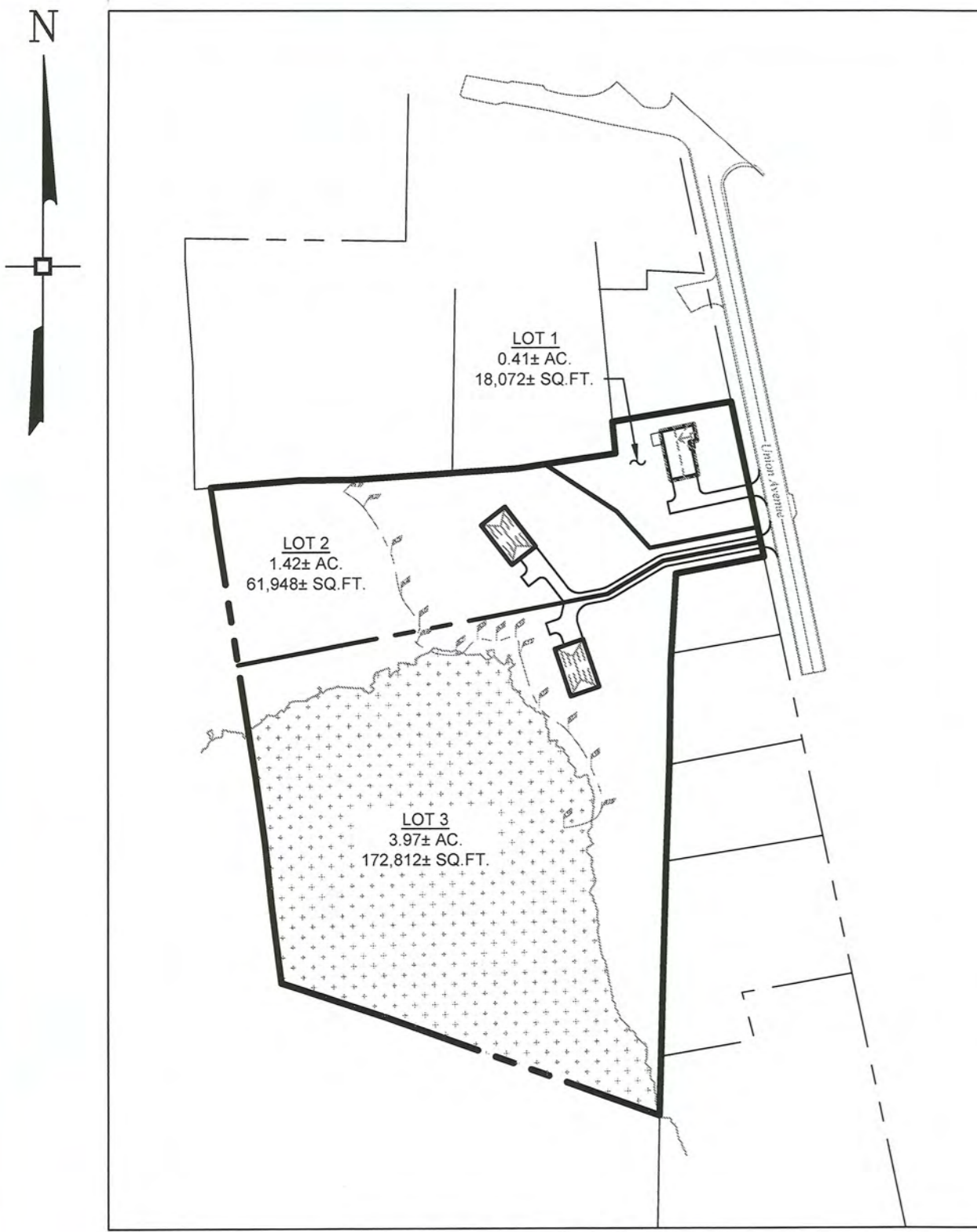
Sincerely,  
Engineering & Surveying Properties, PC



Ross Winglovitz, P.E.  
Principal



Reuben Buck  
Project Engineer



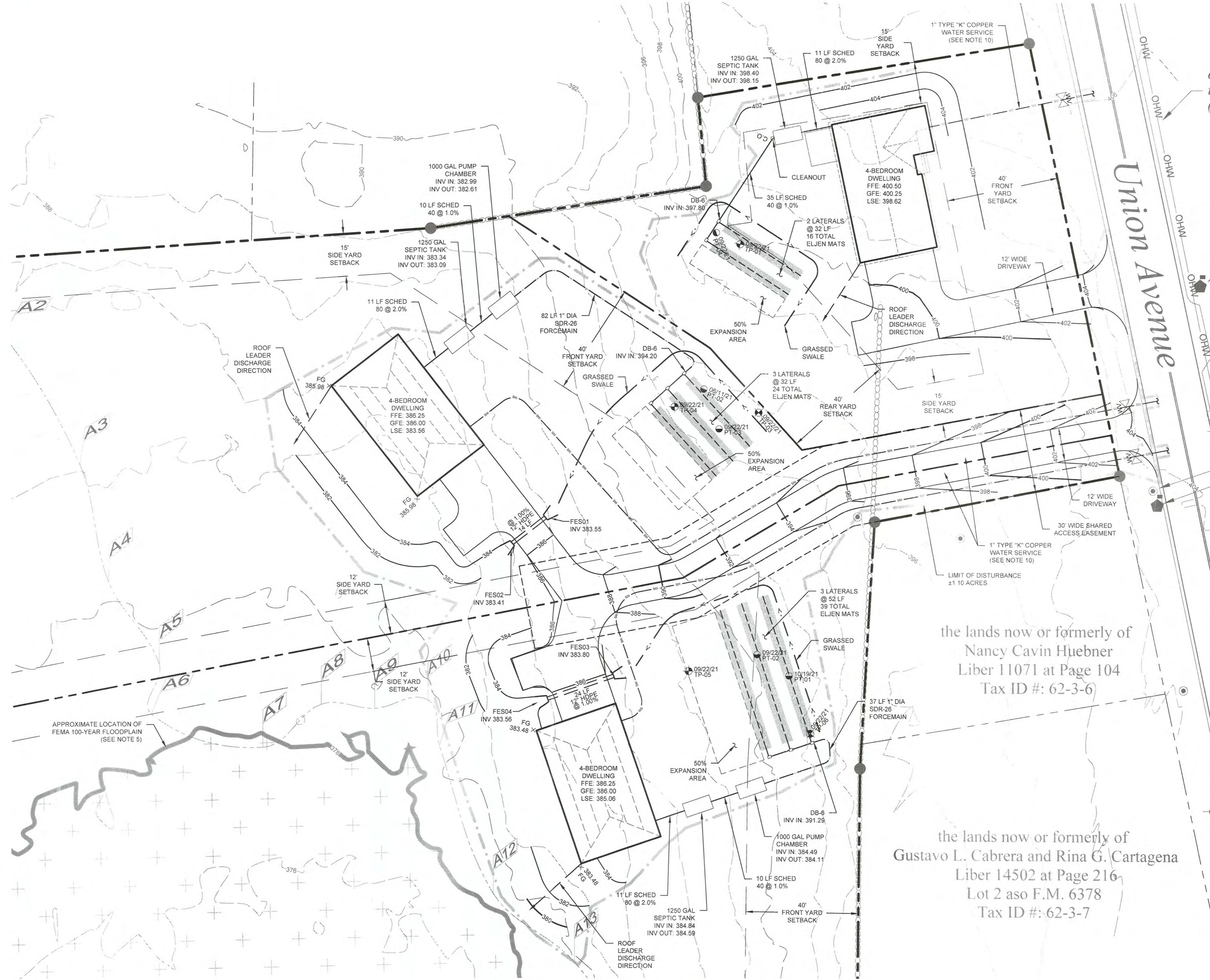
**OVERALL PLAN**  
SCALE: 1" = 150'

**LEGEND**

[Solid Line]	BUILDING LINE
[Dashed Line]	BUILDING ROOF LINE
[Dotted Line]	DRIVEWAY LINE
[Long Dash]	EASEMENT LINE
[Short Dash]	PROPERTY LINE
[Dash-dot]	EDGE OF PAVEMENT LINE
[Long Dash-dot]	SEPTIC SYSTEM LATERALS
[Dotted]	BUILDING SETBACK LINES
[310]	MAJOR CONTOUR LINE
[422]	MINOR CONTOUR LINE
[310]	EXISTING BUILDING LINE
[422]	EXISTING MAJOR CONTOUR LINE
[422]	EXISTING MINOR CONTOUR LINE
[Dash-dot-dot]	EXISTING EDGE OF PAVEMENT LINE
[X-X-X-X-X]	EXISTING FENCE LINES
[Dotted]	ADJACENT PROPERTY LINE
[Dotted]	EXISTING PROPERTY LINE
[Circle with dot]	PERC TEST LOCATION
[Circle with cross]	DEEP TEST HOLE LOCATION
[Circle with 'C.O.']}	SIGN & POST
[Circle with 'C.O.']}	SEWER CLEANOUT
[Circle with 'WLF-25']}	UTILITY POLE
[Circle with 'GFE = XXX.X']	WETLAND FLAG LOCATION AND DESIGNATION
[Circle with 'FFE = XXX.X']	GARAGE FLOOR ELEVATION
[Circle with 'LSE = XXX.X']	FIRST FLOOR ELEVATION
[Circle with 'LSE = XXX.X']	LOWEST SEWERABLE ELEVATION
[Circle with '6 HOLE DROP BOX']	6 HOLE DROP BOX
[Circle with '1250 GALLON SEPTIC TANK']	1250 GALLON SEPTIC TANK

TOWN OF NEWBURGH  
PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-15



**SUBDIVISION PLAN**  
SCALE: 1" = 20'

**GENERAL NOTES**

- TAX MAP IDENTIFICATION NUMBER: SECTION 62 BLOCK 3 LOT 5
- TOTAL AREA OF SUBJECT PARCEL: 5.804± ACRES
- BOUNDARY INFORMATION BASED UPON A MAP ENTITLED "BOUNDARY & WETLAND SURVEY OF THE LANDS OF CROSSROADS CONSTRUCTION & MANAGEMENT, LLC" PREPARED BY JONATHAN N. MILLEN, L.L.S. DATED AUGUST 2021
- THE TOPOGRAPHY SHOWN HEREON WAS COMPILED BY ENGINEERING & SURVEYING PROPERTIES, PC FROM USGS 1M HYDRO-FLATTENED DIGITAL ELEVATION MODELS (DEMS) AS DERIVED FROM 2012 SOURCE LIDAR. THE DEMS WERE PROVIDED BY NYS GIS GOV. CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
- APPROXIMATE SIZE AND LOCATION OF FEMA 100-YEAR FLOODPLAIN (BASE FLOOD ELEVATION OF 378 FEET) TAKEN FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP, ORANGE COUNTY, COMMUNITY: TOWN OF NEWBURGH, NUMBER 36071C0137E, PANEL NUMBER 137 OF 630, EFFECTIVE DATE AUGUST 3, 2009.
- FEDERAL JURISDICTIONAL WETLAND BOUNDARY AS PER FIELD DELINEATION BY CERTIFIED BIOLOGIST MICHAEL NOWICKI OF ECOLOGICAL SOLUTIONS, LLC AND FIELD LOCATED BY ENGINEERING & SURVEYING PROPERTIES, PC ON JUNE 24, 2021.
- OWNER / APPLICANT: CROSSROADS CONSTRUCTION & MANAGEMENT, LLC  
444 SOUTH PLANK ROAD  
NEWBURGH, NY 12550
- THE PROPOSED LOT SHALL BE SERVICED BY AN INDIVIDUAL SEPTIC SYSTEM AND PUBLIC WATER.
- DUE TO THE PROXIMITY OF THE PROJECT SITE TO KNOWN INDIANA BAT HIBERNACULUM, POTENTIAL ROOST TREES SHALL ONLY BE CUT AND REMOVED DURING KNOWN HIBERNATION MONTHS BETWEEN THE DATES OF OCTOBER 1ST THROUGH MARCH 31ST, IN ORDER TO AVOID DIRECT ADVERSE IMPACTS TO THE SPECIES.
- CONTRACTOR TO FIELD LOCATE EXISTING WATER MAIN PRIOR TO INSTALLATION OF PROPOSED WATER SERVICE LINE.
- A PLOT PLAN MUST BE SUBMITTED FOR EACH LOT AND THE PROPOSED STRUCTURES STAKED OUT IN THE FIELD PRIOR TO ISSUANCE OF A BUILDING PERMIT.
- AN AS-BUILT PLAN AND CERTIFICATION BY A NYS DESIGN PROFESSIONAL SHALL BE PROVIDED TO CERTIFY THAT THE CONSTRUCTION OF THE SEPTIC SYSTEM IS CONSISTENT WITH THE APPROVED PLANS.

No.	DATE	DESCRIPTION
0	07/01/22	INITIAL SUBMISSION TO PLANNING BOARD
1	08/15/22	REVISED PER PB COMMENTS 07/21/22
2	09/21/22	REVISED PER PB COMMENTS 09/01/22

DRAWING STATUS	ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	09/21/22
CONCEPT APPROVAL	N/A OF N/A
PLANNING BOARD APPROVAL	2 OF 6
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
NYS DOT 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 SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

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ROSS WINGOLOVITZ, P.E.  
NEW YORK LICENSE # 071701

ORIGINAL SCALE IN INCHES

the lands now or formerly of  
Nancy Cavin Huebner  
Liber 11071 at Page 104  
Tax ID #: 62-3-6

the lands now or formerly of  
Gustavo L. Cabrera and Rina G. Cartagena  
Liber 14502 at Page 216  
Lot 2 aso F.M. 6378  
Tax ID #: 62-3-7

**ENGINEERING & SURVEYING PROPERTIES**  
Achieving Successful Results with Innovative Designs

MONTGOMERY OFFICE  
71 CLINTON STREET  
MONTGOMERY, NY 12549  
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**OVERALL & SUBDIVISION PLANS**

CROSSROADS CONSTRUCTION & MANAGEMENT LLC  
UNION AVENUE  
TOWN OF NEWBURGH  
ORANGE COUNTY, NEW YORK

JOB #:	1325.04	DRAWN BY:	RMB	<b>C-101</b>
DATE:	04/04/22	SCALE:	AS NOTED	
REVISION:	2 - 09/21/22	TAX LOT:	62-3-5	

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# SEPTIC SYSTEM DESIGN SCHEDULE

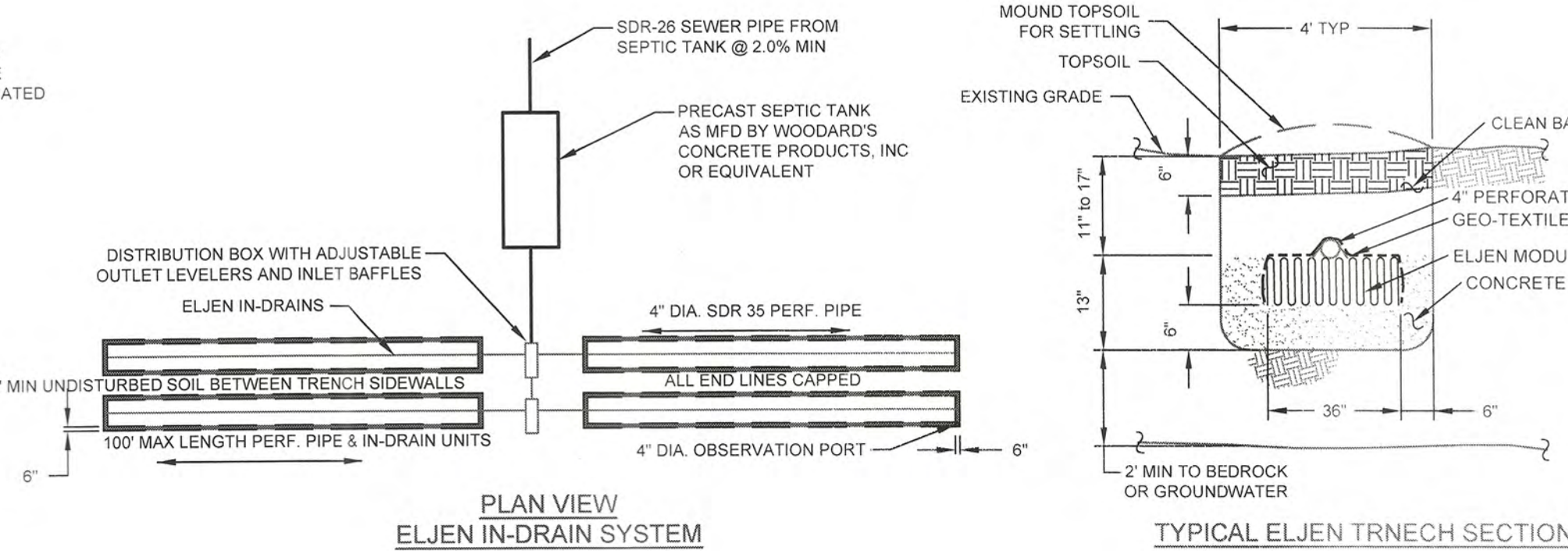
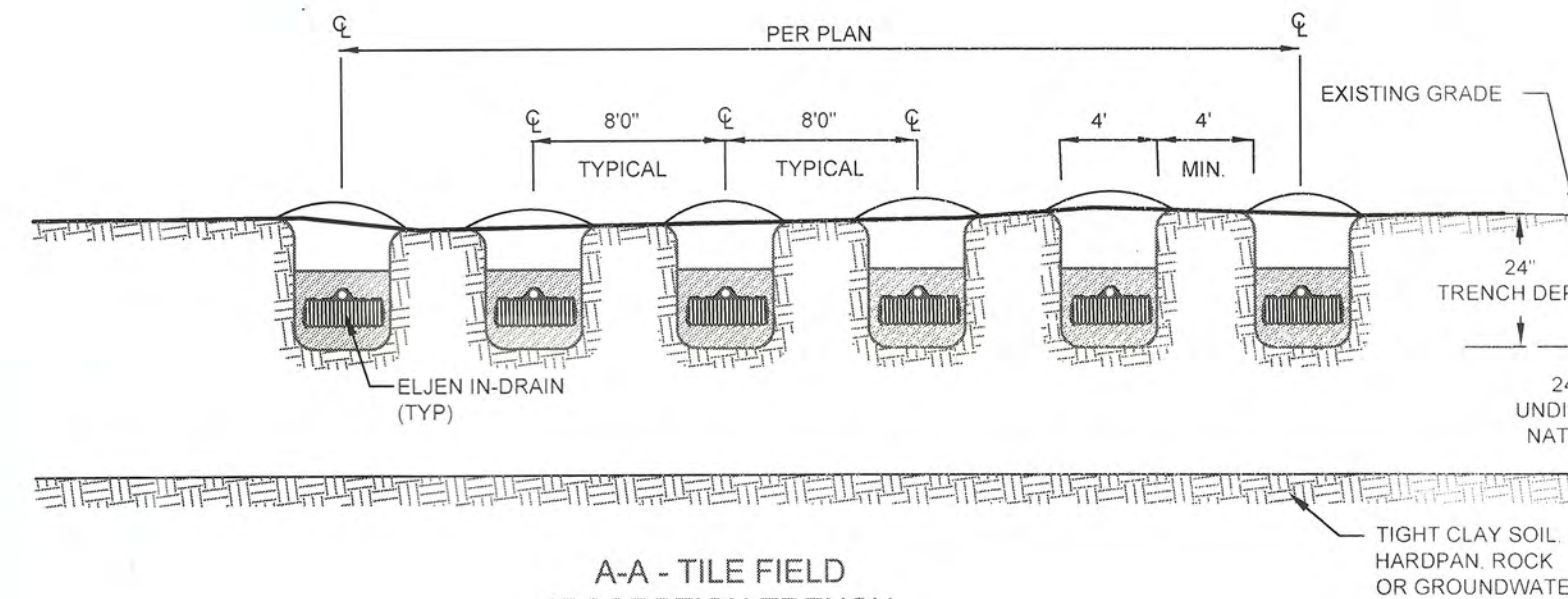
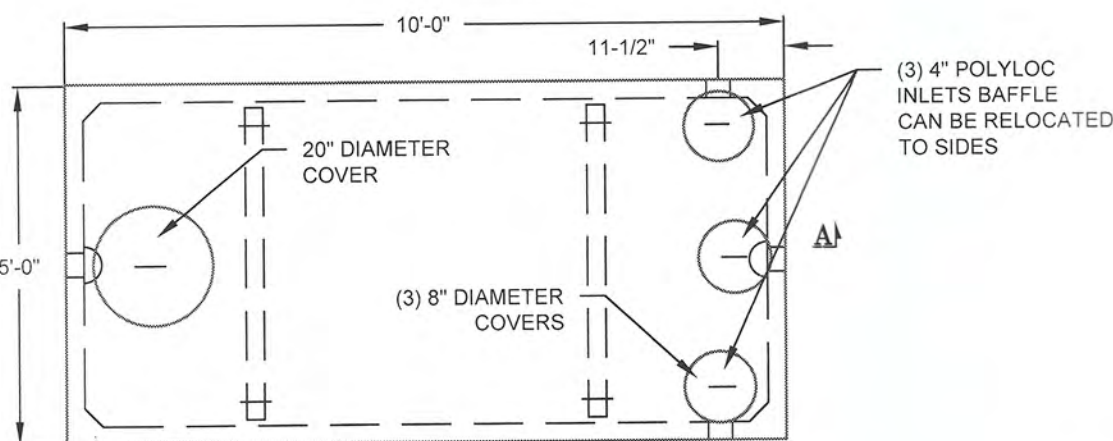
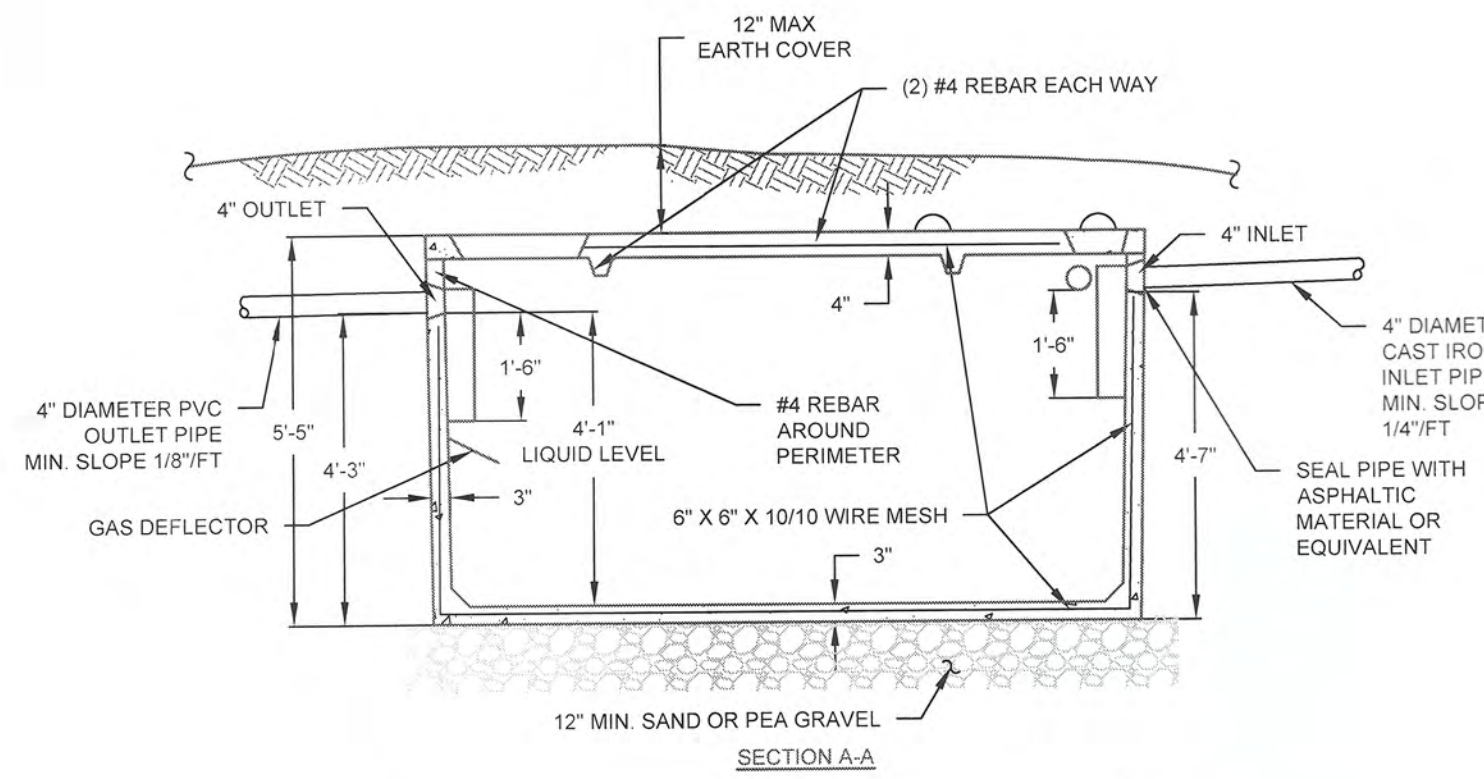
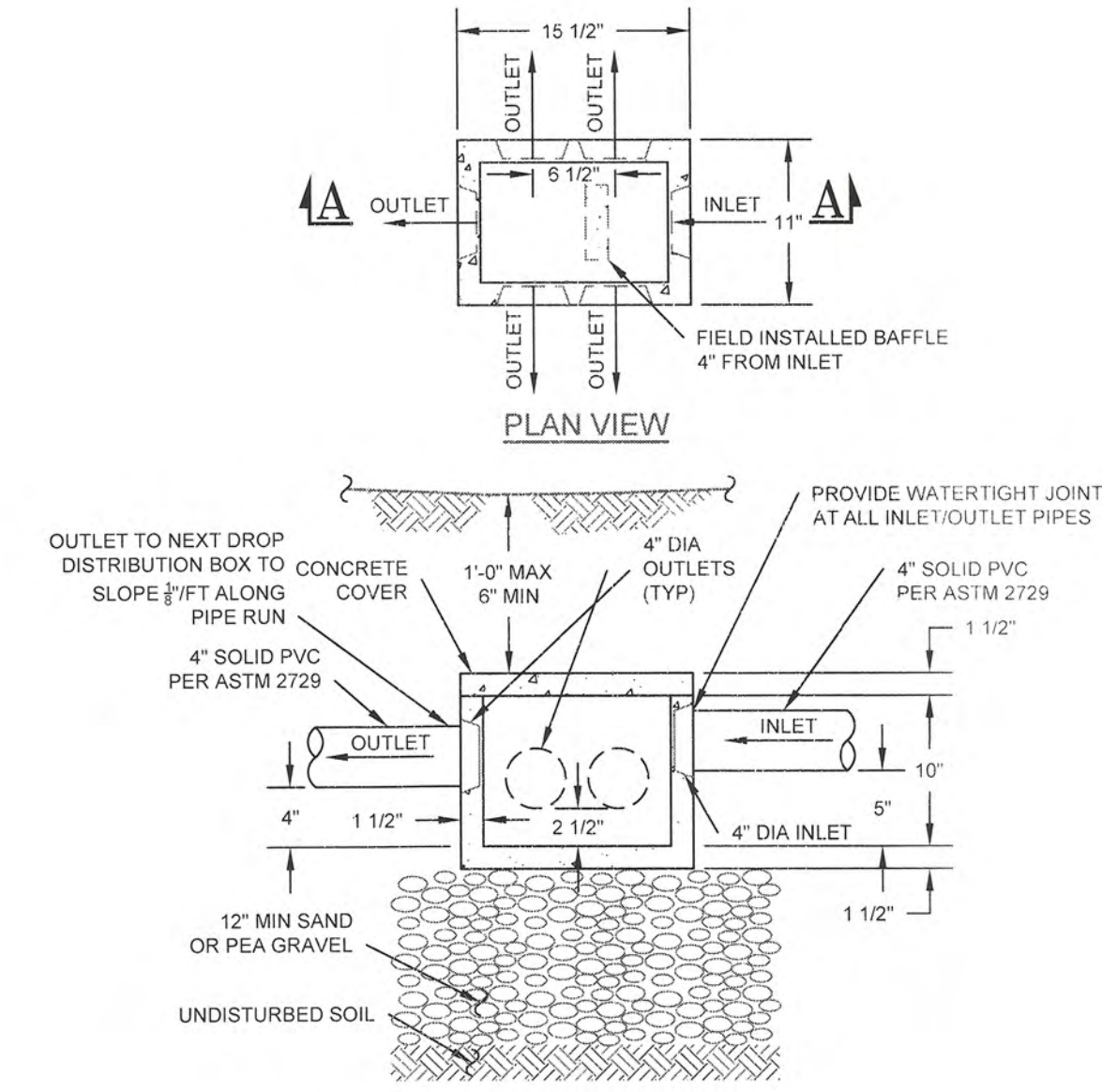
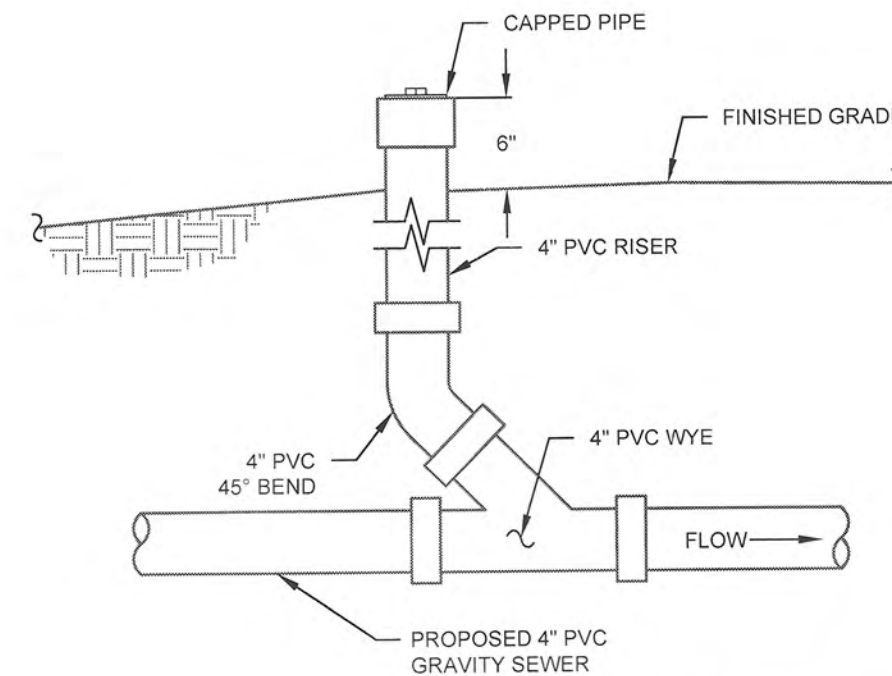
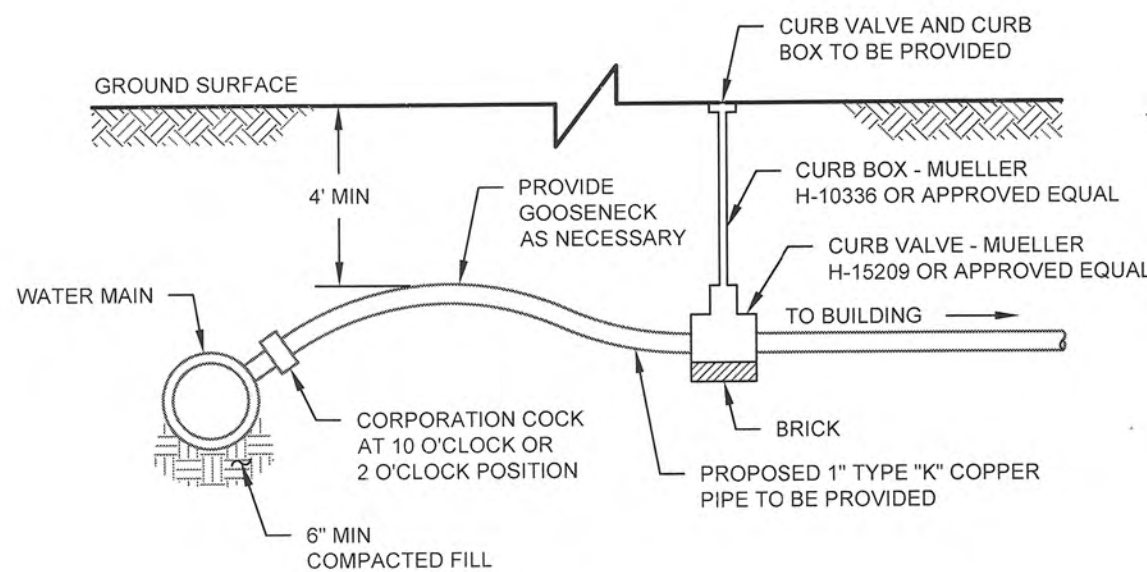
LOT #	NUMBER OF BEDROOMS	DESIGN PERC RATE (min)	FLOW RATE (GPD)	APPLICATION RATE (GPD/Sq. ft.)	REQUIRED AREA (Sq. ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft) (ELJEN)	PROPOSED ABSORPTION FIELD LENGTH (ft)
1	4	4	440	1.20	366.7	62	2 LATERALS @ 32' 16 TOTAL ELJEN MATS
2	4	11	440	0.80	550.0	92	3 LATERALS @ 32' 24 TOTAL ELJEN MATS
3	4	32	440	0.50	880.0	147	3 LATERALS @ 52' 39 TOTAL ELJEN MATS

## PERCOLATION TEST RESULTS

LOT #	PERC HOLE #	PERC HOLE DEPTH	PERC HOLE DIA	TIME	PERCOLATION TEST RUNS - STOPWATCH USED FOR ALL TESTS (TIME FOR 1" DROP IN WATER LEVEL)				STABILIZED RATE
					FINISH	START	STOPWATCH USED FOR TIMED INTERVALS	TIME	
1	09/22/21 PT-04	24"	8"	FINISH					4 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS				
				TIME	00:02:17	00:02:42	00:02:59	00:03:16	
2	06/11/21 PT-02	24"	8"	FINISH					11 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS				
				TIME	00:06:34	00:10:01	00:10:59		
2	09/22/21 PT-03	24"	8"	FINISH					3 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS				
				TIME	00:01:07	00:01:37	00:01:54	00:02:05	
3	09/22/21 PT-02	24"	8"	FINISH					32 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS				
				TIME	00:20:12	00:30:02	00:31:42		
3	10/19/21 PT-01	24"	8"	FINISH					8 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS				
				TIME	00:05:55	00:07:02	00:07:36		

## DEEP TEST HOLE RESULTS

LOT #	TEST HOLE #	DATE	DEPTH	DESCRIPTION
1	TP-01	09/22/21	0' - 6" 6' - 96"	TOPSOIL TAN, SILTY, SANDY LOAM WITH LARGE COBBLE
2	TP-03	09/22/21	0' - 6" 6' - 96"	TOPSOIL TAN, SILTY, SANDY LOAM WITH LARGE COBBLE
2	TP-04	09/22/21	0' - 6" 6' - 96"	TOPSOIL TAN, SILTY, SANDY LOAM WITH LARGE COBBLE
3	TP-05	09/22/21	0' - 6" 6' - 18" 18' - 96"	TOPSOIL TAN, SILTY, SANDY LOAM TAN, SILTY, CLAY LOAM WITH LARGE COBBLE
3	TP-06	09/22/21	0' - 6" 6' - 18" 18' - 60" 60' - 96"	TOPSOIL TAN, SILTY, SANDY LOAM TAN, SILTY, SANDY, CLAY LOAM WITH LARGE COBBLE



- NOTES:**
- PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL S1 1250, OR APPROVED EQUAL.
  - CONCRETE - 4000 PSI AT 28 DAYS.
  - REINFORCEMENT - 6" X 6" X 10 GAUGE WIRE MESH.
  - SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
  - 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 STACK VENT.
  - SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

## TOWN OF NEWBURGH WATER SYSTEM NOTES

- 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 WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDOH AND THE TOWN OF NEWBURGH.
- ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED CLASS 52 DUCTILE IRON PIPE CONFORMING TO ANSII/AWWA C151/A21 S1 FOR DUCTILE IRON PIPE. LATEST REVISION. JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.
- THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS SHALL BE ESEA IRON MEGALIG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.
- ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSII/AWWA C110/A21 10 FOR DUCTILE AND GRAY IRON FITTINGS OR ANSII/AWWA C153/A21 53 FOR DUCTILE IRON COMPACT FITTINGS. LATEST REVISION.
- ALL VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSII/AWWA C509 SUCH AS MUELLER MODEL A-2360-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT (COUNTERCLOCKWISE).
- TAPPING SLERVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVES 4 TO 12 INCHES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSII/AWWA C509 SUCH AS MUELLER MODEL 1-2360-19 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PSI MINIMUM. TESTING OF THE TAPPING SLEEVE AND VALVE MUST BE WITNESSED AND ACCEPTED BY THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE.
- ALL HYDRANTS SHALL BE CLOW-EDDY F-2640 CONFORMING TO AWWA STANDARD C-502, LATEST REVISION. ALL HYDRANTS SHALL INCLUDE A 5/8 INCH MAIN VALVE OPENING, TWO 2 1/2 INCH DIAMETER NPT HOSE NOZZLES, ONE 4 INCH NPT STEAMER NOZZLE, A 6 INCH DIAMETER INLET CONNECTION AND A 1 1/2 INCH PENTAGON OPERATING NUT. ALL HYDRANTS SHALL OPEN LEFT (COUNTERCLOCKWISE). HYDRANTS ON MAINS TO BE DEDICATED TO THE TOWN SHALL BE EQUIPMENT YELLOW. HYDRANTS LOCATED ON PRIVATE PROPERTY SHALL BE RED.
- ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-1502N FOR 3/4 AND 1 INCH, MUELLER H-1500N OR B-2500N FOR 1 1/2 AND 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1502-2N FOR 3/4 AND 1 INCH AND MUELLER B-2524N FOR 1 1/2 AND 2 INCH SIZES. CURB BOXES SHALL BE MUELLER H-10314N FOR 3/4 AND 1 INCH AND MUELLER H-10310N FOR 1 1/2 AND 2 INCH SIZES.
- ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT.
- THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE SATISFACTORY SANITARY RESULTS FROM A CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT.
- THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND SEWER UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR TO CALL UNDERGROUND MARK-OUT AT LEAST 2 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 1-800-962-7962 FOR COMPLETE UTILITIES MARK-OUT.
- CONTRACTOR TO CONTACT TOWN OF NEWBURGH WATER DEPARTMENT AT (845) 584-7813 AT LEAST 2 DAYS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY OF ANY DEVIATION FROM HORIZONTAL OR VERTICAL ALIGNMENTS WITH REGARDS TO EXISTING UTILITIES BEFORE PROCEEDING.
- A CERTIFIED AS BUILT MAP OF THE WATER SYSTEM IMPROVEMENTS SHALL BE PROVIDED TO THE TOWN OF NEWBURGH WATER DEPARTMENT BY A LICENSED DESIGN PROFESSIONAL.
- ALL APARTMENT UNITS AND THE CLUBHOUSE ARE TO BE INDIVIDUALLY METERED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS.
- ALL PIPE, FITTURES AND FITTINGS MUST COMPLY WITH THE FEDERAL "SAFE DRINKING WATER ACT", SECTION 1417 WHICH REQUIRES ALL SURFACES IN CONTACT WITH POTABLE WATER CONTAIN NO MORE THAN 0.25% LEAD BY WEIGHT.
- THE TOWN OF NEWBURGH COMMISSIONER OF PUBLIC WORKS OR HIS DESIGNATED REPRESENTATIVE MUST BE INFORMED OF ANY HYDROSTATIC OR BACTERIOLOGICAL TESTING TO PERMIT THE TESTING TO BE WITNESSED.
- THE TOWN OF NEWBURGH COMMISSIONER OR PUBLIC WORKS OR HIS DESIGNATED REPRESENTATIVE MUST ACCEPT HYDROSTATIC AND BACTERIOLOGICAL TEST RESULTS AS ADEQUATE.

No.	DATE	DESCRIPTION
0	07/01/22	INITIAL SUBMISSION TO PLANNING BOARD
1	08/15/22	REVISED PER PB COMMENTS 07/21/22
2	09/21/22	REVISED PER PB COMMENTS 09/01/22

DRAWING STATUS	ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	09/21/22
CONCEPT APPROVAL	N/A OF N/A
PLANNING BOARD APPROVAL	4 OF 6
OCDOH REALTY SUBDIVISION APPROVAL	N/A OF N/A
OCDOH WATERMAIN EXTENSION APPROVAL	N/A OF N/A
NYSDC 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

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ROSS WINGLOVITZ, P.E.  
NEW YORK LICENSE # 071701

ORIGINAL SCALE IN INCHES

TOWN OF NEWBURGH  
PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-15

ENGINEERING & SURVEYING PROPERTIES

Montgomery Office & Surveying Properties  
71 CLINTON STREET  
MONTGOMERY, NY 12549  
Ph: (845) 457-7727  
WWW.EP-PC.COM

DETAILS

CROSSROADS CONSTRUCTION & MANAGEMENT LLC  
UNION AVENUE  
TOWN OF NEWBURGH  
ORANGE COUNTY, NEW YORK

JOB #: 1325.04  
DATE: 04/04/22  
REVISION: 2 - 09/21/22

DRAWN BY: RMB  
SCALE: AS NOTED  
TAX LOT: 62-3-S

C-301

Dig Safely. New York

Call 811

before you dig

### PUMP STATION CALCULATIONS

#### PUMP VOLUME CALCULATIONS:

64 LF x (3.14) (10)² / 4 = 5.8 CF x 7.48 GAL/CF = 41 GALLONS (TILE FIELD)  
 62 LF x (3.14) (10)² / 4 = 5.4 CF x 7.48 GAL/CF = 3 GALLONS (FORCE MAIN)  
 ELEVATION BETWEEN PUMP OFF TO PUMP ON TRY = 0.17 FT  
 3.1 FT x 3.14 FT x 1 FT = 9.9 CF = 43 GAL  
 43 GAL / (41 + 3) GAL = 50%

#### 24 HOUR STORAGE CALCULATIONS:

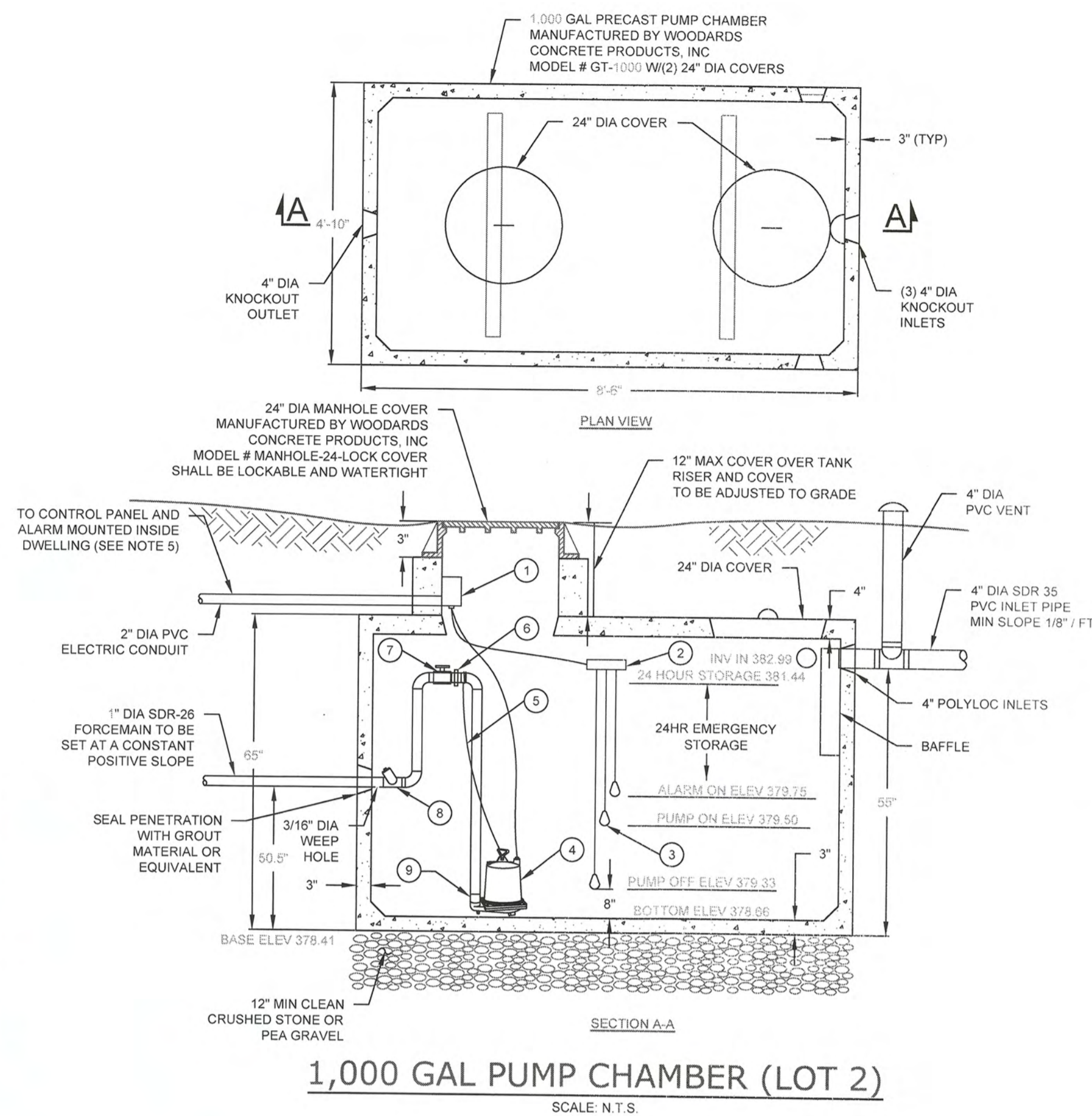
24 HOUR STORAGE = 440 GAL / 7.48 GAL/CF = 58.8 CF  
 24 HOUR STORAGE HEIGHT = 58.8 CF / (8.0 FT x 4.33 FT) = 0.17 FT  
 24 HOUR STORAGE AVAILABLE TO INVERT IN = 3.24 FT

#### NOTES:

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

REF#	QTY	DESCRIPTION & WOODARD'S MODEL #	A	O	D
1	1	ELECTRICAL JUNCTION BOX - AB-1J			
2	1	STAINLESS STEEL FLOAT BRACKET - FSB1			
3	3	MERCURY FLOAT SWITCH - AZK23			
4	1	GOULDS 3885 SUBMERSIBLE EFFLUENT PUMP- WOODARD'S MODEL # - GP-WE05H			
5	1	10' LIFT CABLE - ACBL-10			
6	1	UNION - FUNION-2			
7	1	BALL VALVE - FBALLVALVE-2			
8	1	FLAP CHECK VALVE - FFLAPCHECK-2			
9	1	NPT THREADED ADAPTER - FMA-2			
10	1	GOULDS SIMPLEX CONTROL PANEL W/ALARM - WOODARD'S MODEL # S10020N1			



1,000 GAL PUMP CHAMBER (LOT 2)  
SCALE: N.T.S.

No.	DATE	DESCRIPTION
0	07/01/22	INITIAL SUBMISSION TO PLANNING BOARD
1	08/15/22	REVISED PER PB COMMENTS 07/21/22
2	09/21/22	REVISED PER PB COMMENTS 09/01/22

DRAWING STATUS		ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		09/21/22
CONCEPT APPROVAL		N/A OF N/A
PLANNING BOARD APPROVAL		5 OF 6
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 SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

### PUMP STATION CALCULATIONS

#### PUMP VOLUME CALCULATIONS:

150 LF x (3.14) (10)² / 4 = 13.3 CF x 7.48 GAL/CF = 100 GALLONS (TILE FIELD)  
 37 LF x (3.14) (10)² / 4 = 0.2 CF x 7.48 GAL/CF = 1 GALLONS (FORCE MAIN)  
 ELEVATION BETWEEN PUMP OFF TO PUMP ON TRY = 4.25' OR 0.35'  
 9.1 FT x 3.14 FT x 1 FT = 12.1 CF = 52 GAL  
 52 GAL / (100 + 1) GAL = 51%

#### 24 HOUR STORAGE CALCULATIONS:

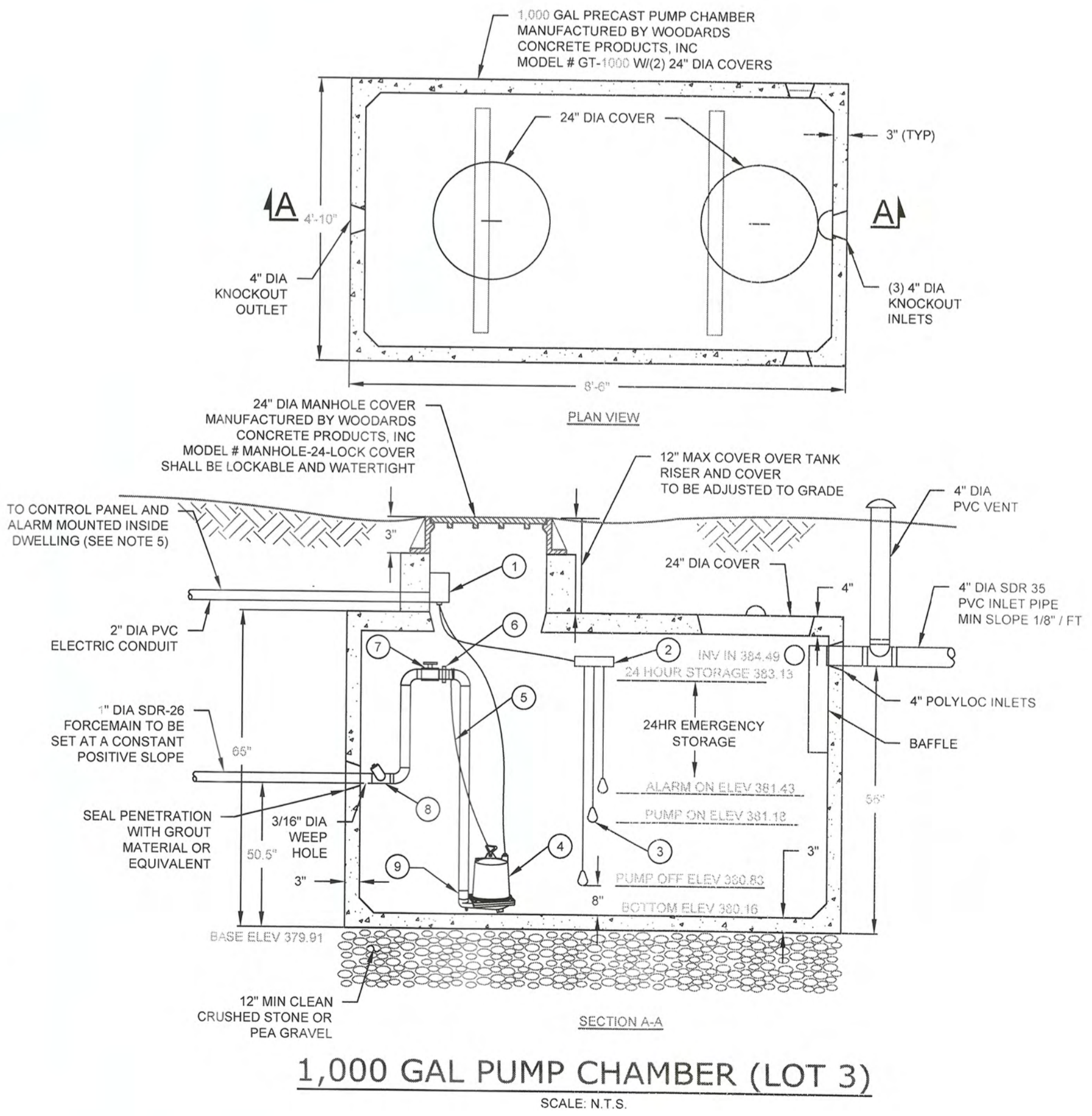
24 HOUR STORAGE = 440 GAL / 7.48 GAL/CF = 58.8 CF  
 24 HOUR STORAGE HEIGHT = 58.8 CF / (8.0 FT x 4.33 FT) = 1.70 FT  
 24 HOUR STORAGE AVAILABLE TO INVERT IN = 3.05 FT

#### NOTES:

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

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6	1	UNION - FUNION-2			
7	1	BALL VALVE - FBALLVALVE-2			
8	1	FLAP CHECK VALVE - FFLAPCHECK-2			
9	1	NPT THREADED ADAPTER - FMA-2			
10	1	GOULDS SIMPLEX CONTROL PANEL W/ALARM - WOODARD'S MODEL # S10020N1			



1,000 GAL PUMP CHAMBER (LOT 3)  
SCALE: N.T.S.

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 PLANNING BOARD APPROVAL BOX  
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 UNION AVENUE  
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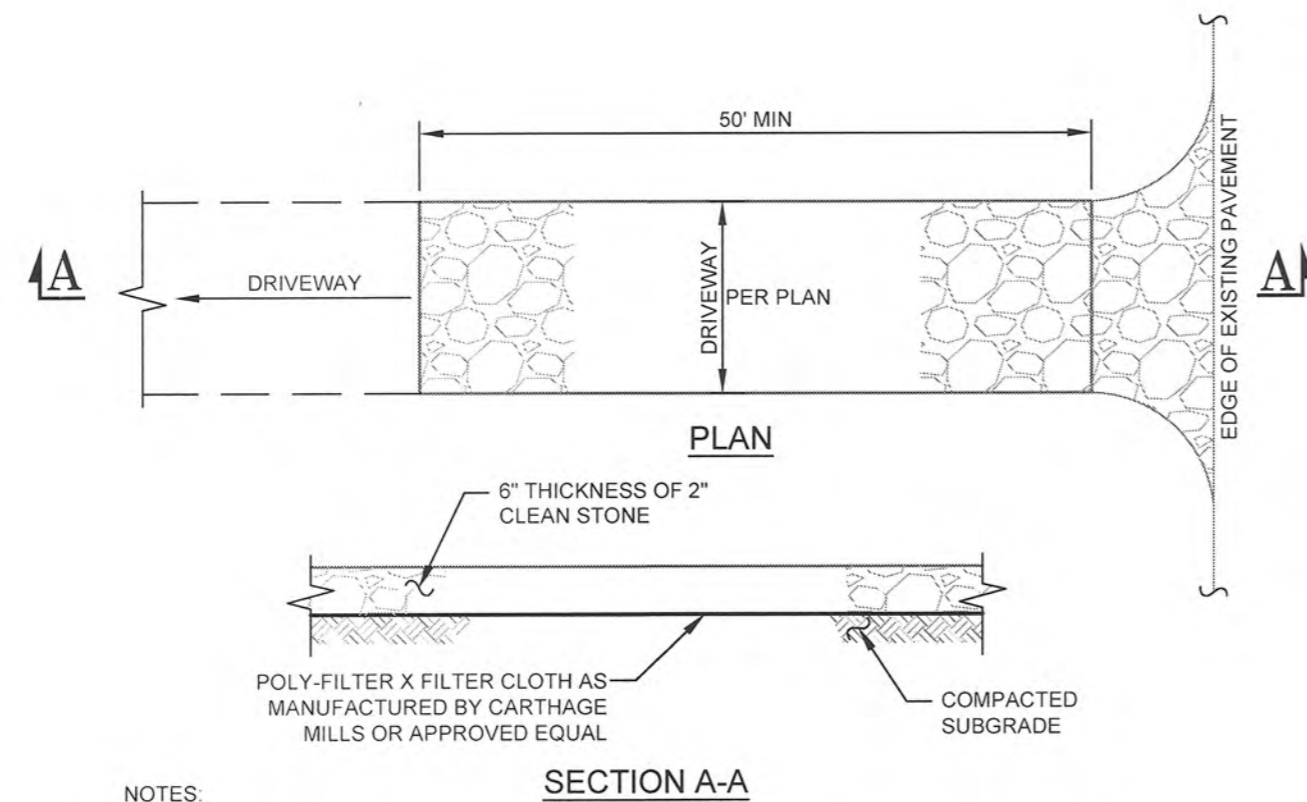
JOB #:	1325.04	DRAWN BY:	RMB
DATE:	04/04/22	SCALE:	AS NOTED
REVISION:	2 - 09/21/22	TAX LOT:	62-3-5

**C-302**

# SOIL RESTORATION NOTES

Table 5.3 Soil Restoration Requirements			
Type of Soil Disturbance	Soil Restoration Requirement	Comments/Examples	
No soil disturbance	Restoration not permitted	Preservation of Natural Features	
Minimal soil disturbance	Restoration not required	Clearing and grubbing	
Areas where topsoil is stripped only - no change in grade	HSG A & B Apply 6 inches of topsoil	HSG C & D Aerate* and apply 6 inches of topsoil	Protect area from any ongoing construction activities.
Areas of cut or fill	HSG A & B Aerate and apply 6 inches of topsoil	HSG C & D Apply full Soil Restoration **	
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls)	Apply full Soil Restoration (de-compaction and compost enhancement)		
Areas where Runoff Reduction and/or Infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.	Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area	
Redevelopment projects	Soil Restoration is required on redevelopment projects in areas where existing pervious area will be converted to impervious area.		

\* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.  
\*\* Per "Deep Rippling and De-compaction, DEC 2008".

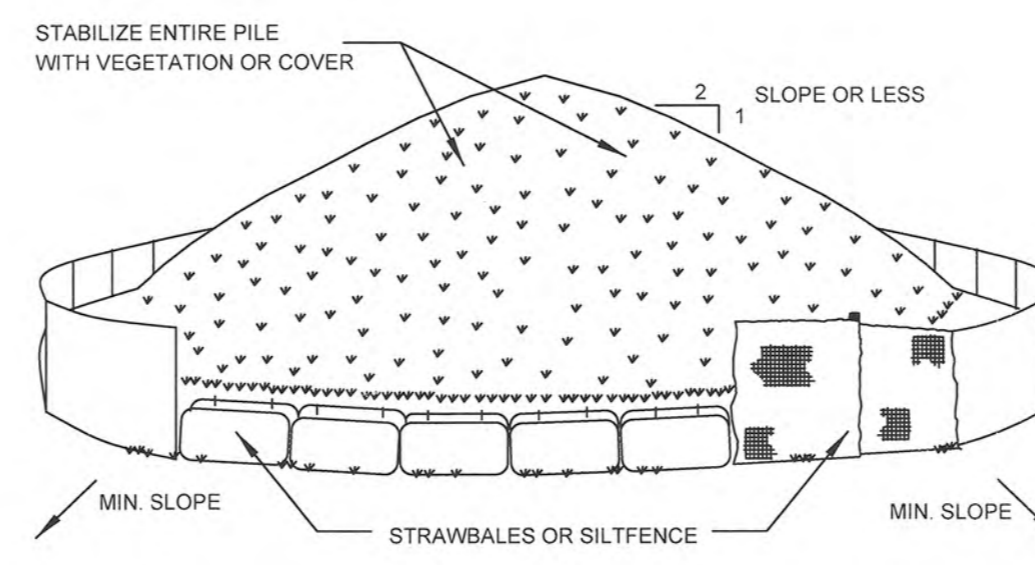


### NOTES:

- STONE SIZE - USE 2" STONE MIN. OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF DRIVEWAY AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 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.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE 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.
- 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 STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH SIGNIFICANT RAINFALL EVENT.

## STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

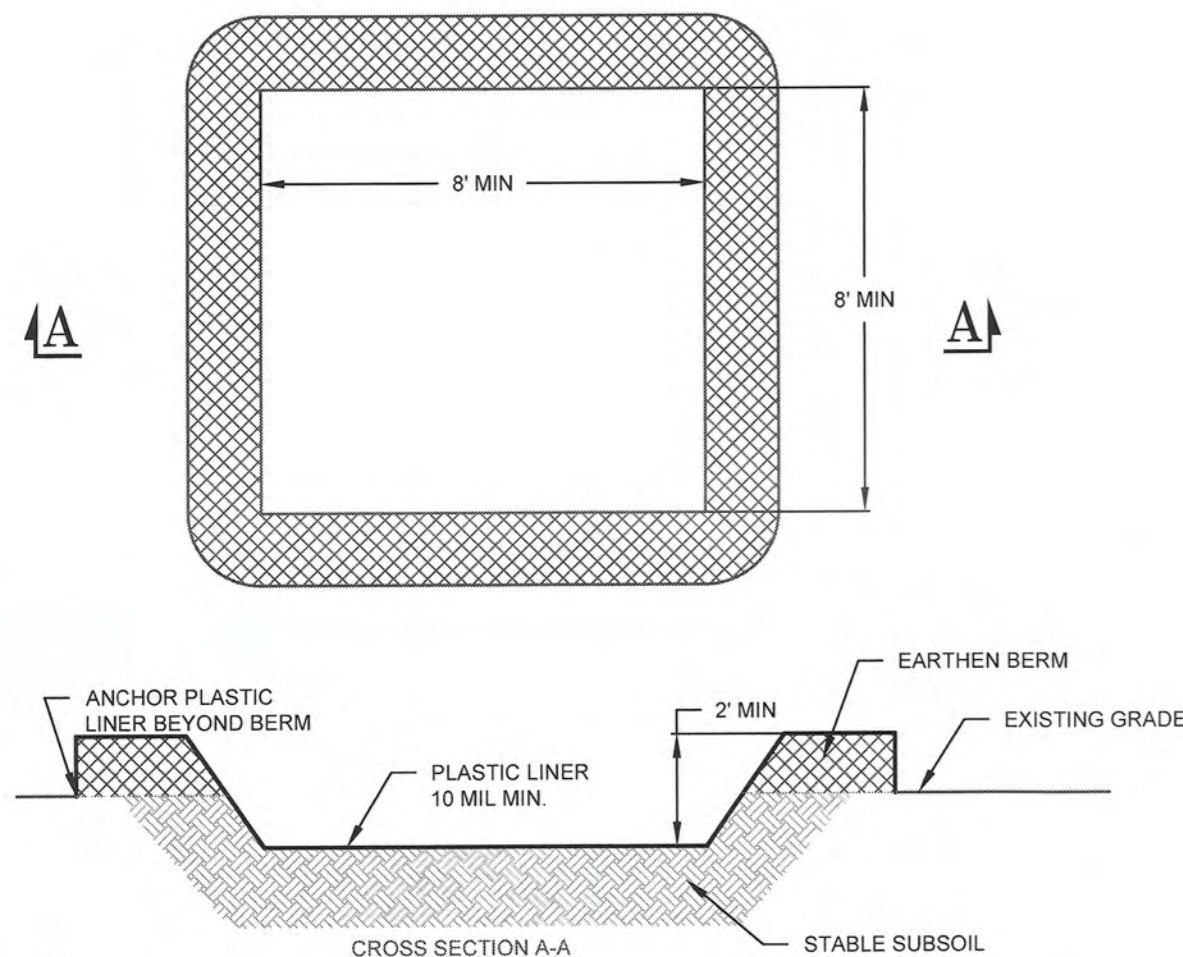


### NOTES:

- 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 BY A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVER.
- SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

## SOIL STOCKPILING

SCALE: N.T.S.

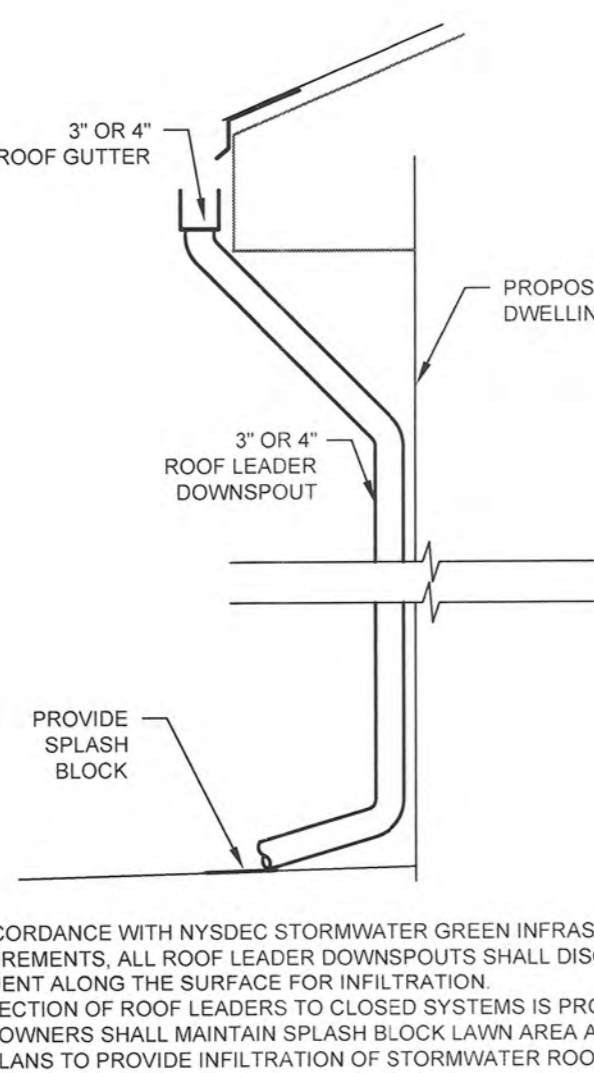


### NOTES:

- 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.
- 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.
- DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL.

## CONCRETE WASHOUT

SCALE: N.T.S.

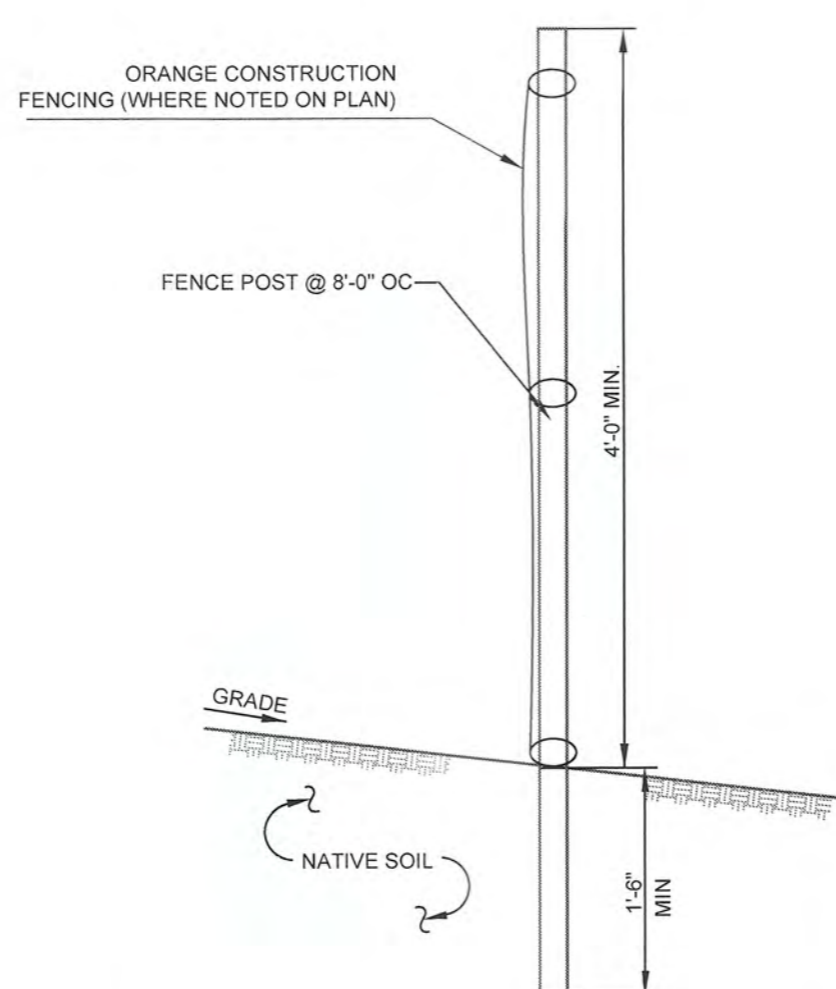


### NOTES:

- 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 RUNOFF.

## ROOF LEADER AND SPLASH PAD

SCALE: N.T.S.

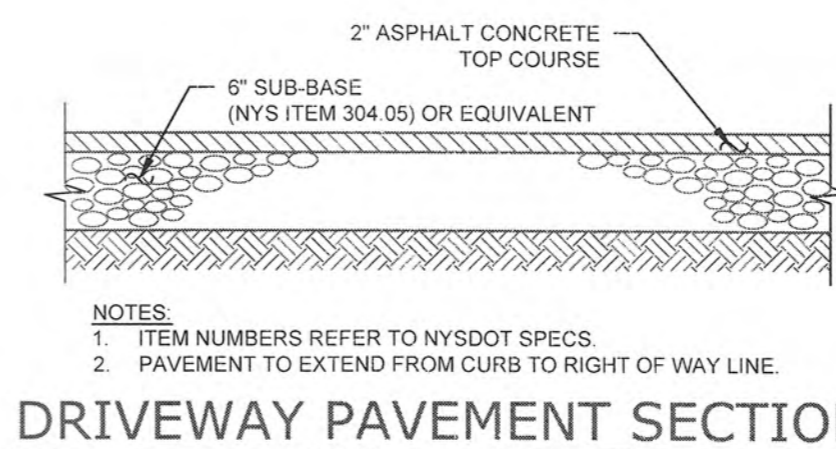


### NOTES:

- ORANGE CONSTRUCTION FENCE LOCATIONS SHALL BE STAKED BY A SURVEYOR AND INSTALLATION SHALL BE CONFIRMED BY THE ENGINEER PRIOR TO ANY LAND DISTURBANCE WITHIN 125 FEET OF AN EXISTING WETLAND AND IN AREAS WHERE TREES AND STONE WALLS ARE TO BE PRESERVED.
- ALL ORANGE CONSTRUCTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT SENSITIVE AREAS.
- THE ORANGE CONSTRUCTION FENCING WILL BE REMOVED UPON FINAL STABILIZATION OF ALL AREAS WITHIN 125 FEET OF FENCING.

## ORANGE CONSTRUCTION FENCE

SCALE: N.T.S.



### NOTES:

- ITEM NUMBERS REFER TO NYS DOT SPECS.
- PAVEMENT TO EXTEND FROM CURB TO RIGHT OF WAY LINE.

## DRIVEWAY PAVEMENT SECTION

SCALE: N.T.S.

# EROSION AND SEDIMENTATION CONTROL NOTES

- SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION.
- 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.
- 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.
  - AN ADEQUATE SEEDED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES.
  - LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0.
  - FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED PER SOIL TEST RESULTS OR AT A RATE OF 800 LBS PER ACRE.
  - 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. CERTIFIED "AROSTOOK" WINTER RYE (CERIAL RYE) PER ACRE.
  - PERMANENT SEEDED SHALL BE APPLIED ON 4" MIN TOPSOIL AT THE FOLLOWING RATE: 8 LBS EMPIRE BIRDSFOOT TREF-OIL OR COMMON WHITE CLOVER PER ACRE PLUS 2 LBS REDTOP OR 5 LBS RYEGRASS (PERENNIAL) PER ACRE.
  - ALL SEEDED SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.
- 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 HYDROSEDER, OR TUCKING THE MULCH WITH SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 2". MULCH ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
- 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.
- 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 DRAINAGE.
- ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.
- SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN SUFFICIENT QUANTITIES.
- 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.
- STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING LIME AND FERTILIZER AS SPECIFIED ABOVE AND SEEDING WITH THE FOLLOWING MIXTURE:
 

MATERIAL	LBS/ACRE
PERENNIAL RYE GRASS	30
CROWN VETCH	12
SPREADING FESCUE	25
- OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15.
- ALL UPSTREAM SITE WORK AND STABILIZATION SHALL OCCUR BEFORE CONNECTING UNDERGROUND DETENTION/INFILTRATION FACILITY TO PREVENT ANY ERODED SEDIMENTS FROM ENTERING UNDERGROUND FACILITY.
- IN ACCORDANCE WITH THE NYSDEC SPODES GP 0-20-001, THERE SHALL BE NO MORE THAN 5 ACRES DISTURBED AT ANYONE TIME.

# SEQUENCE OF CONSTRUCTION ACTIVITY

- PRE-CONSTRUCTION: NOTIFY APPROPRIATE MUNICIPAL AND UTILITY OFFICIALS 3 DAYS PRIOR TO START OF CONSTRUCTION.
- 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 BARRIERS AROUND AND ESTABLISH TEMPORARY VEGETATION ON TOPSOIL STOCKPILES.
- ROUGH GRADING: CUT AND FILL SITE TO APPROXIMATE ELEVATIONS SHOWN ON THE PLAN. IMPLEMENT DUST CONTROL MEASURES AS NECESSARY. ESTABLISH PERMANENT STABILIZATION IN AREAS THAT ARE COMPLETE. ESTABLISH TEMPORARY STABILIZATION ON AREAS THAT WILL BE GRADED AGAIN MORE THAN 21 DAYS FROM LAST DISTURBANCE.
- FINAL GRADING AND CONSTRUCTION OF DRIVEWAYS: BUILDING EXCAVATION AND CONSTRUCTION. INSTALL UTILITIES. ENSURE ALL EROSION CONTROL MEASURES ARE IN WORKING ORDER.
- 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.

# EARTHWORK CONSTRUCTION NOTES

- ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF NEWBURGH.
- ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.
- 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.
- CELLAR, ROOF AND FOOTING DRAINS SHALL CONNECT TO THE EXISTING DRAINAGE SYSTEM OR OTHER FREE-FLOWING OUTLET AT A MINIMUM SLOPE OF 0.5%. FOOTING DRAIN SHALL BE INSTALLED BENEATH BOTTOM OF FOOTING.
- COMPLETION OF GRADING AND BASIN, BERMS AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "SEDIMENTATION EROSION CONTROL".
- ALL SLOPES IN EXCESS OF 3H:1V SHALL BE CONSTRUCTED WITH LOCALLY AVAILABLE GLACIAL TILL. THE EMBANKMENT FILL SHALL BE PLACED IN SIX-INCH THICK LIFTS. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
- 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.
- STABILIZATION OF POND BERMS, AND ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
- ALL POND OUTLETS SHALL HAVE SEEPAGE CONTROL COLLARS PLACED AT 1/3 AND 2/3 THE WIDTH OF THE EMBANKMENT.
- SOIL RESTORATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL REMAIN AS PERVIOUS SURFACES. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING:
  - APPLY 3 INCHES OF COMPOST OVER SUBSOIL.
  - 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.
  - ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
  - APPLY TOPSOIL TO A DEPTH OF 6 INCHES.

No.	DATE	DESCRIPTION
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DRAWING STATUS		ISSUE DATE:
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		SHEET NUMBER
<input type="checkbox"/> CONCEPT APPROVAL	N/A OF N/A	
<input checked="" type="checkbox"/> PLANNING BOARD APPROVAL	6 OF 6	
<input type="checkbox"/> OCCDH REALTY SUBDIVISION APPROVAL	N/A OF N/A	
<input type="checkbox"/> OCCDH WATERMAIN EXTENSION APPROVAL	N/A OF N/A	
<input type="checkbox"/> NYSDEC APPROVAL	N/A OF N/A	
<input type="checkbox"/> NYS DOT APPROVAL	N/A OF N/A	
<input type="checkbox"/> OTHER	N/A OF N/A	
<input type="checkbox"/> FOR BID	N/A OF N/A	
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