TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS

PROJECT NAME:	**CROSS ROADS CONSTRUCTION – 3 LOT SUBDIVISION**
PROJECT NO.:	**22-15**
PROJECT LOCATION:	**UNION AVENUE** **SECTION 62, BLOCK 31, LOT 5**
REVIEW DATE:	**26 AUGUST 2022**
MEETING DATE:	**1 SEPTEMBER 2022**
PROJECT REPRESENTATIVE:	**ENGINEERING AND SURVEYING PROPERTIES, PC**

1. Driveway access and maintenance agreement is required. The applicants are requesting this be a condition of final approval prior to encumbering the property with these agreements.

2. Highway Superintendent's comments have been received.

3. Water pressure calculation have been provided. 1" water lines are proposed to serve the residential structures.

4. Coverage under the NYSDEC Stormwater Program is required. A draft Notice of Intent has been filed. Any approvals should be conditioned on receipt of the appropriate coverage under the DEC Stormwater Program.

5. Project requires a Public Hearing. This office will coordinate submission of Adjourners Notices and Public Hearing Notices.

6. Town of Newburgh Water System notes must be added to the plans. Copy attached.

7. Notes should be added to the plan requiring of an as built plan and certification by NYS Design Professional at the construction of the Septic System is consistent with the approved plans.

Respectfully submitted,

MHE Engineering, D.P.C.

Patrick J. Hines
Principal

PJH/em

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ENGINEERING & SURVEYING PROPERTIES
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August 15, 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 July 15, 2022 from MH&E Consulting Engineers, D.P.C. Below is a comment-by-comment response;

1. General Note #5 on Sheet C-101 has been revised to reference the base flood elevation.

2. General Note #6 on Sheet C-101 has been revised to reference the jurisdiction of the wetland.

3. No response required.

4. A survey sheet has been prepared and will be signed by the NYS licensed surveyor of record.

5. We respectfully request that the common driveway access and maintenance agreement be a condition of final approval.

6. We respectfully request that adjoiner's notices be sent out per Town code.

7. Highway Superintendent's comments on driveway locations have been sent to the Planning Board's engineering consultant.

8. See General Note #11 on Sheet C-101.

9. The water service lines for proposed Lots 2 and 3 have been offset from the driveway to reduce wear on the water valves.

10. Water pressure calculations for the water service lines are attached.

11. A draft NOI has been attached as part of this submission.

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

ENGINEERING & SURVEYING PROPERTIES
Achieving Successful Results with Innovative Designs

Pressure at Proposed Dwelling

WO. NO.	DATE	REVISED	SHEET	OF
1325.04	08/04/22		1	3

PROJECT TITLE	LOCATION
Crossroads Construction & Management LLC (Lot 1)	**Town of Newburgh**

CALCULATED BY	APPROVED BY	REF DRAWING(S)
RB	**RW**	

Proposed System Data

Static Pressure @ Test Hydrant	50.0 psi	
Elevation of Static Hydrant	407.9 ft	
HGL	523.40 ft	
Q =	5.00 gpm	*Needed Flow
Water Service Dia =	1 in.	
Elev @ Proposed Dwelling =	400.25 ft	

Head Loss
System Information:

L =	60 feet	(Eq L + Prop L)
hf =	1.5 feet	

Pressure @ Proposed Dwelling **52.7 psi** (P = (HGL - Elev @ Pr. Dwelling - hf) / (2.31 feet/psi))

ENGINEERING & SURVEYING PROPERTIES Achieving Successful Results with Innovative Designs	Pressure at Proposed Dwelling				
	WO. NO. **1325.04**	DATE **08/04/22**	REVISED	SHEET **2**	OF **3**
PROJECT TITLE **Crossroads Construction & Management LLC (Lot 2)**	LOCATION **Town of Newburgh**				
CALCULATED BY **RB** / APPROVED BY **RW**	REF DRAWING(S)				

Proposed System Data

Static Pressure @ Test Hydrant	50.0 psi	
Elevation of Static Hydrant	407.9 ft	
HGL	523.40 ft	
Q =	5.00 gpm	*Needed Flow
Water Service Dia =	1 in.	
Elev @ Proposed Dwelling =	386.00 ft	

Head Loss

System Information:

L =	305 feet	(Eq L + Prop L)
hf =	7.7 feet	

Pressure @ Proposed Dwelling **56.2 psi** (P = (HGL - Elev @ Pr. Dwelling - hf) / (2.31 feet/psi))

ENGINEERING & SURVEYING PROPERTIES
Achieving Successful Results with Innovative Designs

Pressure at Proposed Dwelling

WO. NO.	DATE	REVISED	SHEET	OF
1325.04	08/04/22		3	3

PROJECT TITLE	LOCATION
Crossroads Construction & Management LLC (Lot 3)	**Town of Newburgh**

CALCULATED BY	APPROVED BY	REF DRAWING(S)
RB	**RW**	

Proposed System Data

Static Pressure @ Test Hydrant	50.0 psi	
Elevation of Static Hydrant	407.9 ft	
HGL	523.40 ft	
Q =	5.00 gpm	*Needed Flow
Water Service Dia =	1 in.	
Elev @ Proposed Dwelling =	386.00 ft	

Head Loss
System Information:

L =	275 feet	(Eq L + Prop L)
hf =	6.9 feet	

Pressure @ Proposed Dwelling **56.5 psi** (P = (HGL - Elev @ Pr. Dwelling - hf) / (2.31 feet/psi))

0644089821

NOTICE OF INTENT

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

NYR _____ (for DEC use only)

Stormwater Discharges Associated with Construction Activity Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001

All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR **MUST SIGN FORM**

Owner/Operator Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Crossroads Construction & Management LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Maher

Owner/Operator Contact Person First Name
Mike

Owner/Operator Mailing Address
444 South Plank Road

City
Newburgh

State
NY

Zip
12550-____

Phone (Owner/Operator)
845-527-3110

Fax (Owner/Operator)
___-___-____

Email (Owner/Operator)
mikechief99@aol.com

FED TAX ID
__-_____ (not required for individuals)

Project Site Information

Project/Site Name

Crossroads Construction & Management LLC

Street Address (NOT P.O. BOX)

Union Avenue

Side of Street

○ **North** ○ **South** ○ **East** ● **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)

Town of Newburgh

State: NY

Zip: 12550-

County: Orange

DEC Region: 3

Name of Nearest Cross Street

Gardnertown Road

Distance to Nearest Cross Street (Feet): 300

Project In Relation to Cross Street

○ **North** ● **South** ○ **East** ○ **West**

Tax Map Numbers
Section-Block-Parcel: 62-3-5

Tax Map Numbers:

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

www.dec.ny.gov/imsmaps/stormwater/viewer.htm

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

X Coordinates (Easting): 609646

Y Coordinates (Northing): 9837320

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
SELECT ONLY ONE CHOICE FOR EACH

Pre-Development Existing Land Use	Post-Development Future Land Use
● FOREST	○ SINGLE FAMILY HOME
○ PASTURE/OPEN LAND	● SINGLE FAMILY SUBDIVISION
○ CULTIVATED LAND	○ TOWN HOME RESIDENTIAL
○ SINGLE FAMILY HOME	○ MULTIFAMILY RESIDENTIAL
○ SINGLE FAMILY SUBDIVISION	○ INSTITUTIONAL/SCHOOL
○ TOWN HOME RESIDENTIAL	○ INDUSTRIAL
○ MULTIFAMILY RESIDENTIAL	○ COMMERCIAL
○ INSTITUTIONAL/SCHOOL	○ MUNICIPAL
○ INDUSTRIAL	○ ROAD/HIGHWAY
○ COMMERCIAL	○ RECREATIONAL/SPORTS FIELD
○ ROAD/HIGHWAY	○ BIKE PATH/TRAIL
○ RECREATIONAL/SPORTS FIELD	○ LINEAR UTILITY (water, sewer, gas, etc.)
○ BIKE PATH/TRAIL	○ PARKING LOT
○ LINEAR UTILITY	○ CLEARING/GRADING ONLY
○ PARKING LOT	○ DEMOLITION, NO REDEVELOPMENT
○ OTHER	○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.)
	○ OTHER

Number of Lots: 3

***Note:** for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

Total Site Area	Total Area To Be Disturbed	Existing Impervious Area To Be Disturbed	Future Impervious Area Within Disturbed Area
5.8	1.1	0.0	0.3

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ● **No**

6. Indicate the percentage of each Hydrologic Soil Group(HSG) at the site.

A	B	C	D
%	%	%	100 %

7. Is this a phased project? ○ **Yes** ● **No**

8. Enter the planned start and end dates of the disturbance activities.

Start Date	End Date
09/01/2022	12/31/2022

9. Identify the nearest surface waterbody(ies) to which construction site runoff will discharge.

Name

FEDERAL WETLANDS

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ● Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ○ Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ● Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
If no, skip question 13.

13. Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? ○ **Yes** ● **No**
If Yes, what is the acreage to be disturbed?

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent area? ○ **Yes** ● **No**

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ Yes ● No ○ Unknown

16. What is the name of the municipality/entity that owns the separate storm sewer system?

17. Does any runoff from the site enter a sewer classified as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

22. Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and Quantity Control practices/techniques)? ○ Yes ● No
If No, skip questions 23 and 27-39.

23. Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS Stormwater Management Design Manual? ○ Yes ● No

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24. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer

Engineering & Surveying Properties PC

Contact Name (Last, Space, First)

Ross Winglovitz

Mailing Address

71 Clinton Street

City

MONTGOMERY

State Zip

NY 12549-

Phone

845-457-7727

Fax

845-457-1899

Email

ross@ep-pc.com

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name

Ross

MI

A

Last Name

Winglovitz

Signature

Date

07/29/2022

25. Has a construction sequence schedule for the planned management practices been prepared? ○ Yes ● No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

Temporary Structural

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ○ Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

Biotechnical

- ○ Brush Matting
- ○ Wattling

Vegetative Measures

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

Permanent Structural

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ● Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

Post-construction Stormwater Management Practice (SMP) Requirements

Important: Completion of Questions 27-39 is not required if response to Question 22 is No.

27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **Sidewalk Reduction**
- ○ **Driveway Reduction**
- ○ **Cul-de-sac Reduction**
- ○ **Building Footprint Reduction**
- ○ **Parking Reduction**

27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).

- ● All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
- ○ Compacted areas were considered as impervious cover when calculating the **WQv Required**, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.

28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Total WQv Required

☐☐☐.☐☐☐ **acre-feet**

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing Area (acres)		Total Contributing Impervious Area (acres)
RR Techniques (Area Reduction)			
● Conservation of Natural Areas (RR-1)	___.___	and/or	___.___
○ Sheetflow to Riparian Buffers/Filters Strips (RR-2)	___.___	and/or	___.___
○ Tree Planting/Tree Pit (RR-3)	___.___	and/or	___.___
○ Disconnection of Rooftop Runoff (RR-4)	___.___	and/or	___.___
RR Techniques (Volume Reduction)			
○ Vegetated Swale (RR-5)			___.___
○ Rain Garden (RR-6)			___.___
○ Stormwater Planter (RR-7)			___.___
○ Rain Barrel/Cistern (RR-8)			___.___
○ Porous Pavement (RR-9)			___.___
○ Green Roof (RR-10)			___.___
Standard SMPs with RRv Capacity			
○ Infiltration Trench (I-1)			___.___
○ Infiltration Basin (I-2)			___.___
○ Dry Well (I-3)			___.___
○ Underground Infiltration System (I-4)			___.___
● Bioretention (F-5)			___.___
○ Dry Swale (O-1)			___.___
Standard SMPs			
○ Micropool Extended Detention (P-1)			___.___
○ Wet Pond (P-2)			___.___
○ Wet Extended Detention (P-3)			___.___
○ Multiple Pond System (P-4)			___.___
○ Pocket Pond (P-5)			___.___
○ Surface Sand Filter (F-1)			___.___
○ Underground Sand Filter (F-2)			___.___
○ Perimeter Sand Filter (F-3)			___.___
○ Organic Filter (F-4)			___.___
○ Shallow Wetland (W-1)			___.___
○ Extended Detention Wetland (W-2)			___.___
○ Pond/Wetland System (W-3)			___.___
○ Pocket Wetland (W-4)			___.___
○ Wet Swale (O-2)			___.___

Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)

Alternative SMP	Total Contributing Impervious Area (acres)
○ Hydrodynamic	
○ Wet Vault	
○ Media Filter	
○ Other [ ]	

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

Note: Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.

30. Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29.

Total RRv provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ● **No**

If Yes, go to question 36.
If No, go to question 32.

32. Provide the Minimum RRv required based on HSG.
[Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]

Minimum RRv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

○ **Yes** ● **No**

If Yes, go to question 33.
Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total impervious area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29.

WQv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). [ ][ ][ ].[ ][ ][ ]

35. Is the sum of the RRv provided (#30) and the WQv provided (#33a) greater than or equal to the total WQv required (#28)? ○ **Yes** ● **No**

If Yes, go to question 36.
If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria.

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

CPv Required

[ ][ ][ ].[ ][ ][ ] **acre-feet**

CPv Provided

[ ][ ][ ].[ ][ ][ ] **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

● Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

Total Extreme Flood Control Criteria (Qf)

Pre-Development

[ ][ ][ ].[ ][ ][ ] **CFS**

Post-development

[ ][ ][ ].[ ][ ][ ] **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ Downstream analysis reveals that the Qp and Qf controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been developed? ○ **Yes** ● **No**

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

40. Identify other DEC permits, existing and new, that are required for this project/facility.

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ][ ]
- ○ Other [ ]
- ○ None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
If Yes, Indicate Size of Impact. [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ○ **Yes** ● **No**
(If No, skip question 43)

43. Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI? ○ **Yes** ● **No**

44. If this NOI is being submitted for the purpose of continuing or transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

Owner/Operator Certification

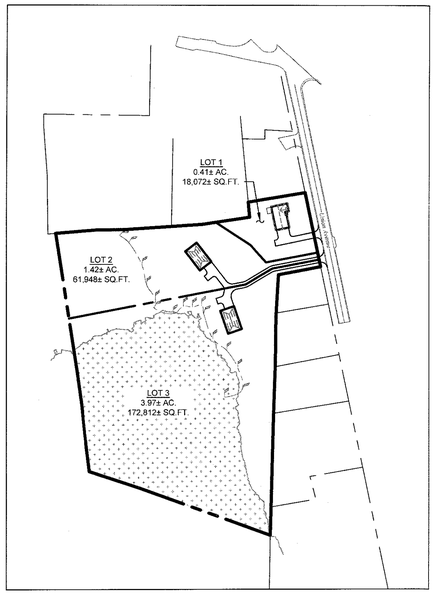
I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name **MI**

Print Last Name

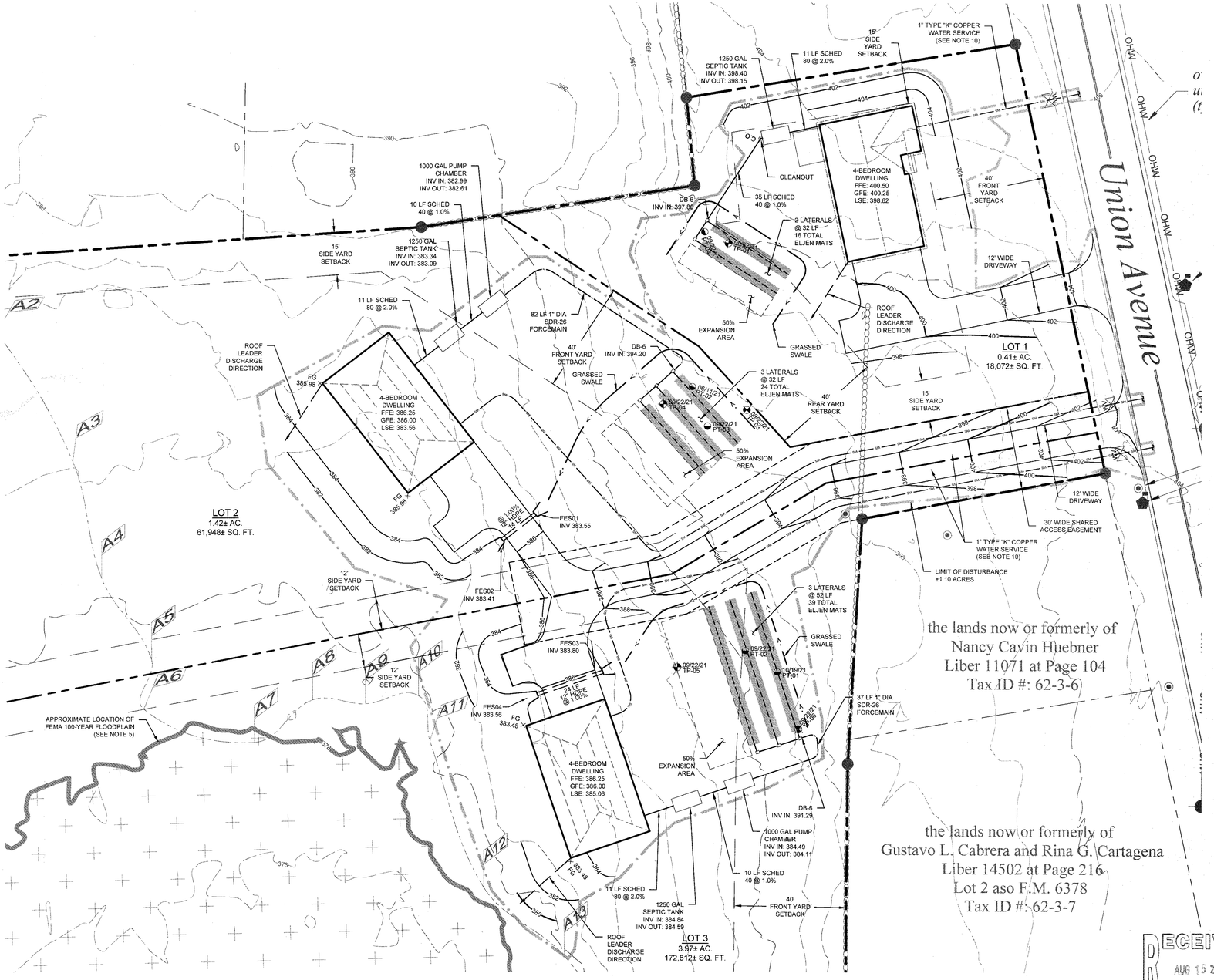
Owner/Operator Signature

Date / /



OVERALL PLAN

SCALE: 1" = 150'



SUBDIVISION PLAN

SCALE: 1" = 20'

LEGEND

	BUILDING LINE
	BUILDING ROOF LINE
	DRIVEWAY LINE
	EASEMENT LINE
	PROPERTY LINE
	EDGE OF PAVEMENT LINE
	SEPTIC SYSTEM LATERALS
	BUILDING SETBACK LINES
310	MAJOR CONTOUR LINE
422	MINOR CONTOUR LINE
	EXISTING BUILDING LINE
310	EXISTING MAJOR CONTOUR LINE
422	EXISTING MINOR CONTOUR LINE
	EXISTING EDGE OF PAVEMENT LINE
x x x x x x	EXISTING FENCE LINES
	ADJACENT PROPERTY LINE
	EXISTING PROPERTY LINE
7/15/03 A	PERC TEST LOCATION
2-A	DEEP TEST HOLE LOCATION
	SIGN & POST
C.O.	SEWER CLEANOUT
	UTILITY POLE
WLF-25	WETLAND FLAG LOCATION AND DESIGNATION
GFE = XXX.X	GARAGE FLOOR ELEVATION
FFE = XXX.X	FIRST FLOOR ELEVATION
LSE = XXX.X	LOWEST SEWERABLE ELEVATION
	6 HOLE DROP BOX
	1250 GALLON SEPTIC TANK

TOWN OF NEWBURGH
PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-15

GENERAL NOTES

1. TAX MAP IDENTIFICATION NUMBER: SECTION 62 BLOCK 3 LOT 5
2. TOTAL AREA OF SUBJECT PARCEL: 5.804± ACRES.
3. 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.
4. 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.
5. 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 360710C0137E, PANEL NUMBER 137 OF 630, EFFECTIVE DATE AUGUST 3, 2009.
6. 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.
7. OWNER / APPLICANT: CROSSROADS CONSTRUCTION & MANAGEMENT, LLC
   444 SOUTH PLANK ROAD
   NEWBURGH, NY 12550
8. THE PROPOSED LOT SHALL BE SERVICED BY AN INDIVIDUAL SEPTIC SYSTEM AND PUBLIC WATER.
9. 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.
10. CONTRACTOR TO FIELD LOCATE EXISTING WATER MAIN PRIOR TO INSTALLATION OF PROPOSED WATER SERVICE LINE.
11. 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.

No.	DATE	DESCRIPTION
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1	08/15/22	REVISED PER PB COMMENTS 07/21/22

DRAWING STATUS	ISSUE DATE: 08/15/22		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ 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
☐ 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).

STATE OF NEW YORK — ROSS A. WINGLOVITZ — 071701 — LICENSED PROFESSIONAL ENGINEER

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

0 1 2 3

ORIGINAL SCALE IN INCHES

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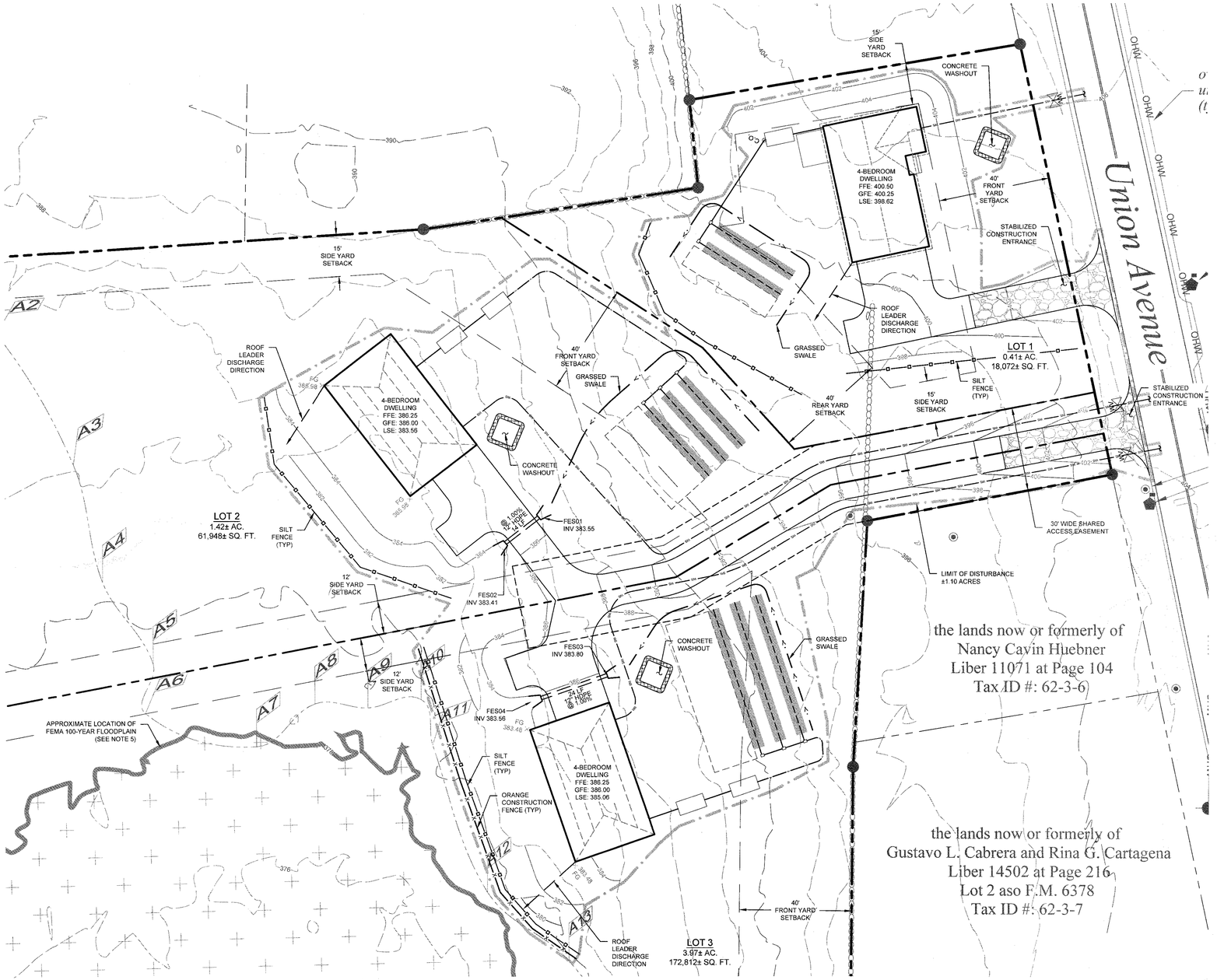
OVERALL & SUBDIVISION PLANS

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

JOB #:	DRAWN BY:	
1325.04	RMB	C-101
DATE: 04/04/22	SCALE: AS NOTED	
REVISION: 1 - 08/15/22	TAX LOT: 62-3-5	

Z:\1325.04 – Maher – 1183 Union Ave Multifamily\1325.04 – Subdivision Plan.dwg
Date Printed: Aug 15, 2022, 8:03am



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☑ PLANNING BOARD APPROVAL	3	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

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STATE OF NEW YORK — ROSS A. WINGLOVITZ — 071701 — REGISTERED PROFESSIONAL ENGINEER

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

20 0 10 20 40
1 inch = 20 ft.

TOWN OF NEWBURGH
PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-15

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EROSION CONTROL PLAN

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

JOB #:	DRAWN BY:	
1325.04	RMB	C-102
DATE: 04/04/22	SCALE: 1" = 20'	
REVISION: 1 - 08/15/22	TAX LOT: 62-3-5	

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

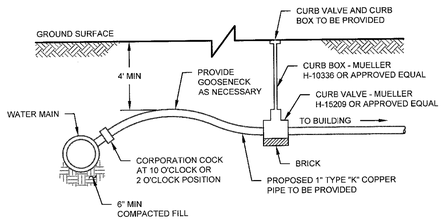
LOT #	PERC HOLE #	PERC HOLE DEPTH	PERC HOLE DIA	TIME	PERCOLATION TEST RUNS - STOPWATCH USED FOR ALL TESTS (TIME FOR 1" DROP IN WATER LEVEL)					STABLIZED RATE
1	09/22/21 PT-04	24"	8"	FINISH						4 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS					
				TIME	00:02:17	00:02:42	00:02:59	00:03:16		
2	06/11/21 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, CLAY LOAM WITH LARGE COBBLE TAN, SILTY, SANDY, CLAY LOAM WITH LARGE COBBLE

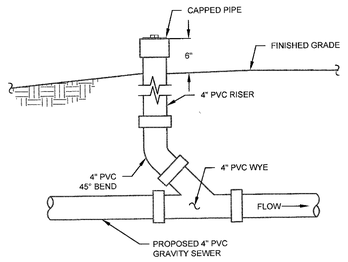
TOWN OF NEWBURGH
PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-15



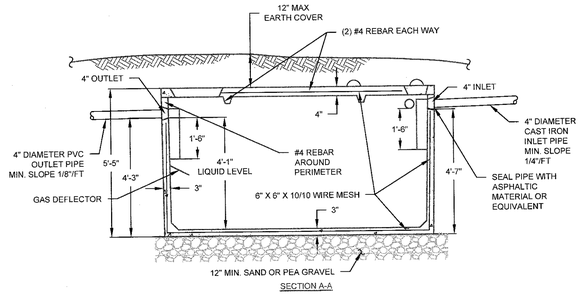
WATER SERVICE CONNECTION

SCALE: N.T.S.



TYPICAL CLEANOUT

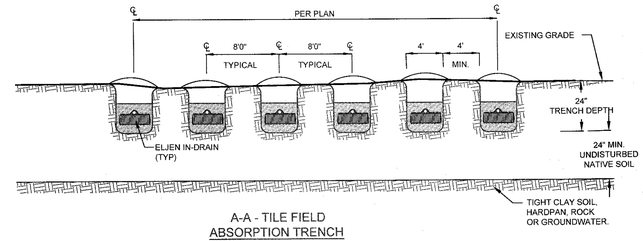
SCALE: N.T.S.



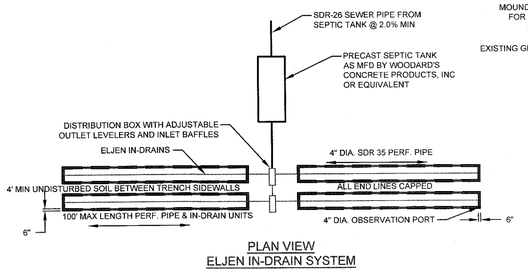
NOTES:
1. PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS, INC.MODEL ST 1250, OR APPROVED EQUAL.
2. CONCRETE - 4000 PSI AT 28 DAYS.
3. REINFORCEMENT - 6" X 6" X 10 GAUGE WIRE MESH.
4. SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
5. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK, OR ANY PUMPING OR DOSING CHAMBER, TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
6. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

1250 GALLON SEPTIC TANK

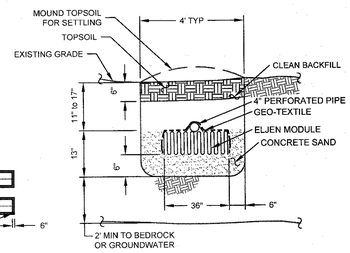
SCALE: N.T.S.



A-A - TILE FIELD
ABSORPTION TRENCH
WITH ELJEN SYSTEM



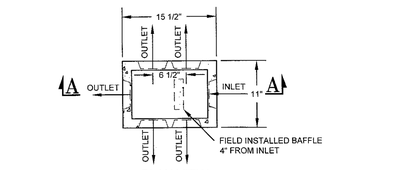
PLAN VIEW
ELJEN IN-DRAIN SYSTEM



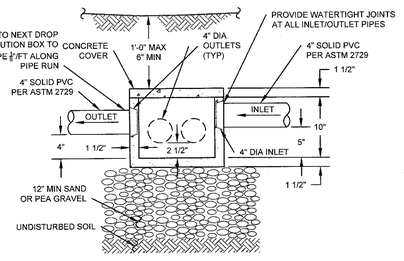
TYPICAL ELJEN TRNECH SECTION

ABSORPTION TILE FIELD OVERALL PLAN

SCALE: N.T.S.



PLAN VIEW



NOTES:

SECTION A-A

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
3. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
4. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
5. PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS
6. 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

SCALE: N.T.S.

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☑ PLANNING BOARD APPROVAL	4	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

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STATE OF NEW YORK · ROSS A. WINGLOVITZ · 071701 · LICENSED PROFESSIONAL ENGINEER

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

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DETAILS

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

JOB #:	DRAWN BY:	
1325.04	RMB	C-301
DATE: 04/04/22	SCALE: AS NOTED	
REVISION: 1 - 08/15/22	TAX LOT: 62-3-5	

Z:\1325.04 - Maher - 1183 Union Ave Multifamily\1325.04 - Subdivision Plan.dwg
Date Printed: Aug 15, 2022, 8:03am

PUMP STATION CALCULATIONS

PUMP VOLUME CALCULATIONS:

64 LF x (3.14)(.33)^2 / 4 = 5.5 CF x 7.48 GAL/CF = 41 GALLONS (TILE FIELD)
82 LF x (3.14)(.68)^2 / 4 = 0.4 CF x 7.48 GAL/CF = 3 GALLONS (FORCE MAIN)
ELEVATION BETWEEN PUMP OFF TO PUMP ON TRY 2" OR 0.17'
8.0 FT x 4.33 FT x 0.17 FT = 5.8 CF = 43 GAL
43 GAL / (41 + 3) GAL = 98%

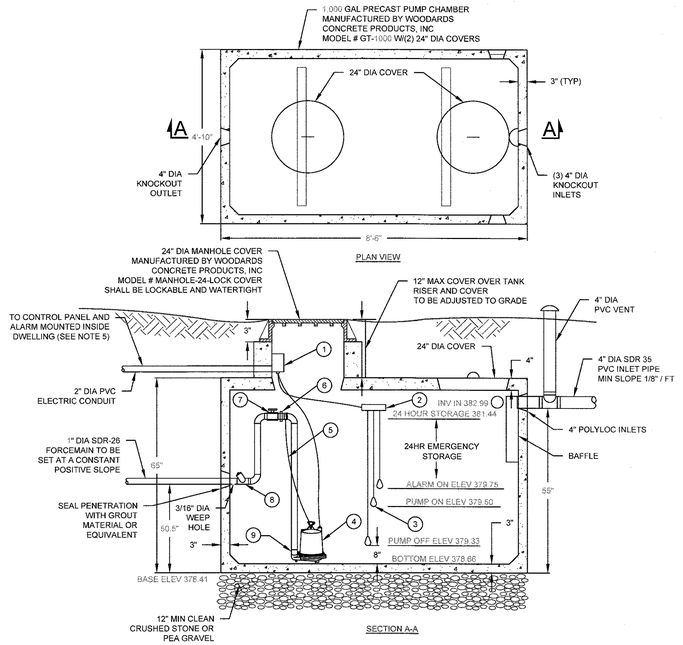
24 HOUR STORAGE CALCULATIONS:

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 - 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
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 - A8-1J			
2	1	STAINLESS STEEL FLOAT BRACKET - FSB1			
3	3	MERCURY FLOAT SWITCH - A2K23			
4	1	GOULDS 3885 SUBMERSIBLE EFFLUENT PUMP- WOODARDS MODEL # - GP-WE05H			
5	1	10' LIFT CABLE - ACBL-10			
6	1	1" UNION - FUNION-2			
7	1	1" BALL VALVE - FBALLVALVE-2			
8	1	1" FLAP CHECK VALVE - FFLAPCHECK-2			
9	1	1" NPT THREADED ADAPTER - FMA-2			
10	1	GOULDS SIMPLEX CONTROL PANEL W/ALARM - WOODARDS MODEL # S10020N1			



1,000 GAL PUMP CHAMBER (LOT 2)

SCALE: N.T.S.

PUMP STATION CALCULATIONS

PUMP VOLUME CALCULATIONS:

156 LF x (3.14)(.33)^2 / 4 = 13.3 CF x 7.48 GAL/CF = 100 GALLONS (TILE FIELD)
37' LF x (3.14)(.28)^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'
8.0 FT x 4.33 FT x 0.35 FT = 12.3 CF = 92 GAL
92 GAL / (100 + 1) GAL = 91%

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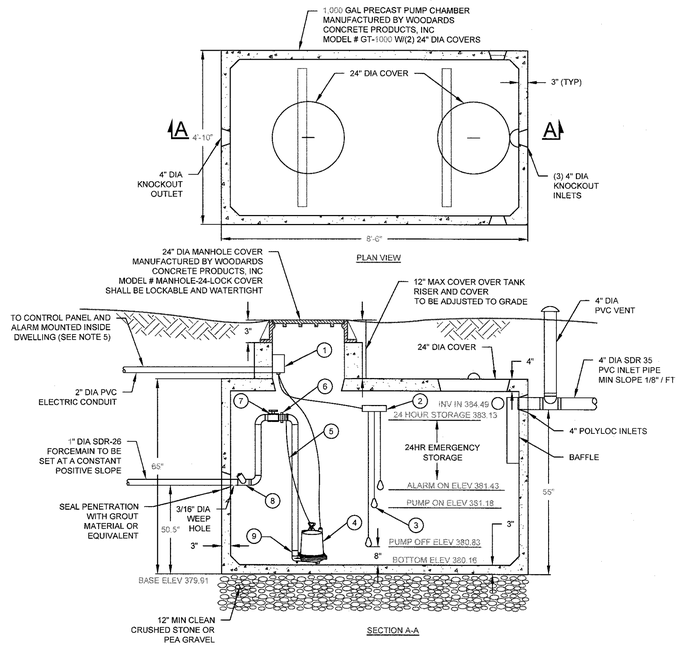
6	1	1" UNION - FUNION-2			
7	1	1" BALL VALVE - FBALLVALVE-2			
8	1	1" FLAP CHECK VALVE - FFLAPCHECK-2			
9	1	1" NPT THREADED ADAPTER - FMA-2			
10	1	GOULDS SIMPLEX CONTROL PANEL W/ALARM - WOODARDS MODEL # S10020N1			



1,000 GAL PUMP CHAMBER (LOT 3)

SCALE: N.T.S.

TOWN OF NEWBURGH
PLANNING BOARD APPROVAL BOX

NEWBURGH PB #2022-15

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

DRAWING STATUS	ISSUE DATE: 08/15/22		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ 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

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THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

STATE OF NEW YORK · ROSS A. WINGLOVITZ · 071701 · LICENSED PROFESSIONAL ENGINEER

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DETAILS

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

JOB #:	1325.04	DRAWN BY:	RMB	C-302
DATE:	04/04/22	SCALE:	AS NOTED	
REVISION:	1 - 08/15/22	TAX LOT:	62-3-5	

Z:\1325.04 – Maher – 1183 Union Ave Multifamily\1325.04 – Subdivision Plan.dwg
Date Printed: Aug 15, 2022, 8:03am

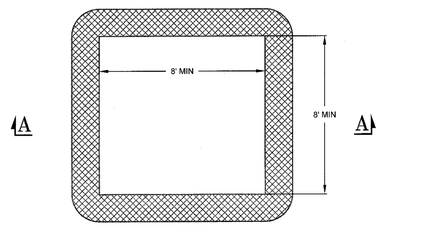
SOIL RESTORATION NOTES

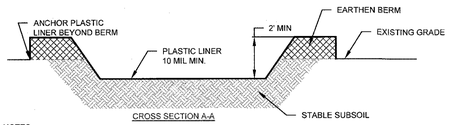
Table 5.3 Soil Restoration Requirements

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

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





NOTES:
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.
2. WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS.
3. 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

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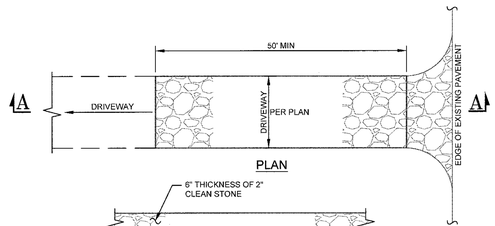
NEWBURGH PB #2022-15

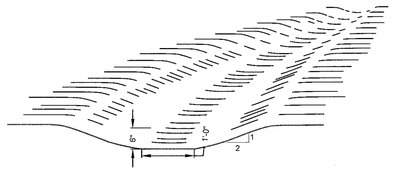


SECTION A-A

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 STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
6. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH SIGNIFICANT RAINFALL EVENT.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

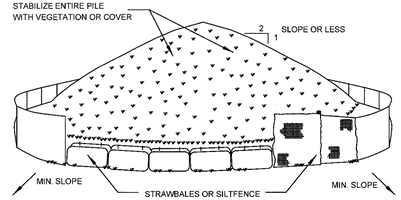


CHANNEL CROSS-SECTION

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 FLOW.
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 WATERWAY.
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.

GRASSED SWALE

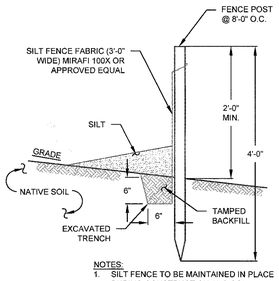
SCALE: N.T.S.



NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

SOIL STOCKPILING

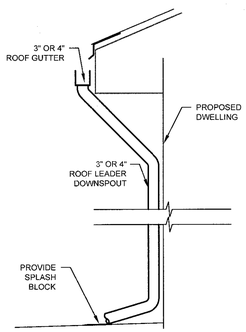
SCALE: N.T.S.



NOTES:
1. SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.
2. SILT SHALL BE REMOVED WHEN HEIGHT OF SILT EXCEEDS 1/2 OF THE EXPOSED SILT FENCE HEIGHT

SILT FENCE

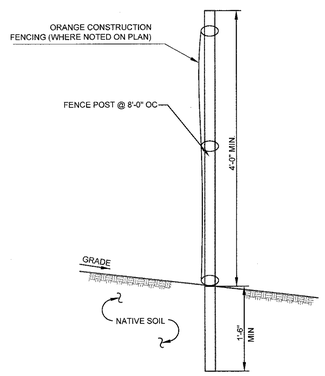
SCALE: N.T.S.



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

ROOF LEADER AND SPLASH PAD

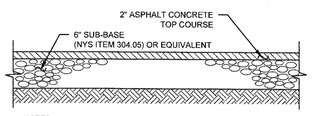
SCALE N.T.S.



NOTES:
1. 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.
2. ALL ORANGE CONSTRUCTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT SENSITIVE AREAS.
3. 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:
1. ITEM NUMBERS REFER TO NYSDOT SPECS.
2. PAVEMENT TO EXTEND FROM CURB TO RIGHT OF WAY LINE.

DRIVEWAY PAVEMENT SECTION

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 8.0 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. CERTIFIED "AROOSTOOK" 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
   2 LBS REDTOP OR 5 LBS RYEGRASS (PERENNIAL) PER ACRE
   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 PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
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 DRAINAGE.
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 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

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

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.
3. 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 STABILIZATION IN AREAS THAT ARE COMPLETE. ESTABLISH TEMPORARY STABILIZATION ON AREAS THAT WILL BE GRADED AGAIN MORE THAN 21 DAYS FROM LAST DISTURBANCE.
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.
7. 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

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 BOTTOM OF FOOTING.
5. COMPLETION OF GRADING AND BASIN, BERMS AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "SEDIMENTATION EROSION CONTROL".
6. 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 EMBANKMENT.
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 OFF THE SITE.
    10.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.

No.	DATE	DESCRIPTION
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☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

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DETAILS

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UNION AVENUE
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1325.04	RMB	
DATE: 04/04/22	SCALE: AS NOTED	C-303
REVISION: 1 - 08/15/22	TAX LOT: 62-3-5	

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