

MICHAEL W. WEEKS, P.E. (NY, NJ & PA)

PATRICK J. HINES

LYLE R. SHUTE, P.E., LEED-AP (NY, NJ, PA)

MICHAEL J. LAMOREAUX, P.E. (NY, NJ, PA, VT, VA & CT)

Main Office 33 Airport Center Drive Suite 202 New Windsor, New York 12553

(845) 567-3100 fax: (845) 567-3232 e-mail: <u>mheny@mhepc.com</u>

Principal Emeritus: RICHARD D. McGOEY, P.E. (NY & PA)

## TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT:	HADID CLEARING & GRADING APPLICATION-34 SUSAN DR.
PROJECT NO.:	21-10
PROJECT LOCATION:	SECTION 46, BLOCK 5, LOT 21
REVIEW DATE:	28 MAY 2021
MEETING DATE:	3 JUNE 2021
PROJECT REPRESENTATIVE:	ENGINEERING & SURVEYING PROPERTIES

- The Applicants have provided a revised plan and response comments which proposed modifications to the existing condition. Applicant's representative's response to comments fails to identify that the fill material has previously been placed on the residential lot without approvals. The most recent plan submission now proposes substantial grading to the fill on the site.
- 2. The Applicants representative has provided a clearing and grading permit dated 5 January 2021 identifying 1,500 cubic yards of fill to be placed on the site. In the recent submission the Applicant representative has submitted a schematic computer model identifying 2,345 cubic yards of fill on the site. It is noted the computer model uses a 3 foot contour interval to evaluate the amount of material placed.
- **3.** The most recent plan submission identifies what appears to require export of material which has been brought on the site in order to meet proposed grades. This office requests a plan which depicts the pre-filling grading, the current site conditions and the proposed grading to be submitted for the Planning Board to evaluate the site.
- 4. The revised plan identifies a retaining wall proposed in order to reduce the slope on the site. This retaining wall appears to be placed in areas which contain 6-9 feet of fill. Detailed design of this retaining wall should be required in order to assure stability of the wall placed on the uncompacted fill material.
- **5.** Plan continued to depict existing evergreen shrub row to be re-planted after grading. This shrub row is depicted to be planted on a steep slope. Method for planting trees on this slope should be identified.

Regional Office • 111 Wheatfield Drive • Suite 1 • Milford, Pennsylvania 18337 • 570-296-2765 •



- 6. The Applicants representative has provided a profile of the proposed sanitary sewer pipe between the septic system and the absorption fields. This profile identifies slopes on proposed pipes of 42% and 19.5%. Velocity within these pipes should be evaluated with regard to impacts on the subsurface sanitary sewer disposal field.
- 7. This office continues to have concern regarding the long term stability of the un-compacted fill material placed on the site. We previously requested an evaluation of the fill material by a qualified Geotechnical Design professional. Long term stability of the fill material is dependent on the type of material, the compaction of the material, the natural angle of repose of the material and other factors which should be evaluated based on placing of a large volume of fill material in an uncontrolled fashion on a residential lot in close proximity to adjoining properties.
- 8. The revised plans seem to identify that fill will now be exported from the site. This should be further evaluated including the loading of the fill material, removal of the fill material from the site, construction access, dust control etc. Volume of the fill proposed to be removed should be identified as part of the clearing and grading permit application.
- **9.** The Applicants response to our previous comment regarding the need for a Public Hearing is that Planning Board approval and a Public Hearing should not be required. Section 83-8C(3) identifies that Planning Board approval is required for "filling which exceeds a total of 1,500 cubic yards of material within any parcel or any one subdivision, excluding public roads." The Applicants representatives schematic fill calculation identifies more than 1,500 cubic yards of fill. Section 83-8E identifies the Planning Board may upon its discretion conduct Public Hearings for applications on clearing and grading and that the Planning Board shall conduct a Public Hearing for filling which exceeds a total of 3,000 cubic yards of material. Based on the residential neighborhood impacted by the activities this office would recommend the Planning Board conduct the discretionary Public Hearing for the project. Planning Board approval of any filling activity in excess of 1,500 cubic yards is clearing required by Chapter 83 of Town Code.
- **10.** This office continues to request the filled area, if permitted to remain be evaluated by a Geotechnical Design professional as to long term stability of the fill, pool, retaining wall structure.

Respectfully submitted,

*McGoey, Hauser and Edsall Consulting Engineers, D.P.C.* 

atest & Afteres

Patrick J. Hines Principal

PJH/kbw



Montgomery Office:

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

www.EngineeringPropertiesPC.com

May 20, 2021

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

ATTN: John Ewasutyn, Chairman

RE: W.O. # 1592.01 PB APPLICATION 2021-10 HADID 34 SUSAN DRIVE COMMENT RESPONSE

Dear Mr. Ewasutyn,

We are in receipt of the comment memo regarding the above-mentioned project dated April 30, 2021 from MH&E Consulting Engineers, D.P.C. Below is a comment-by-comment response;

- 1. A Clearing and Grading Permit was submitted to the Town of Newburgh Building Department on January 5, 2021 prior to referral to the Planning Board.
- 2. The existing dwelling was serviced by an existing septic tank and absorption field. The existing septic tank is to remain and per General Note #6 on Sheet C-1 shall be inspected by a contractor. The existing absorption field is to be abandoned. Each new component of the septic system is labeled on Sheet C-1 as "proposed" and detailed on Sheet C-2.
- 3. A profile of the sanitary sewer disposal system indicating the slope of the pipe between the septic system and the proposed leech field has been provided on Sheet C-2.
- 4. Barry Schuyler submitted a letter to the Town of Newburgh Building Department on December 15, 2020 stating that the Hadid's spoke to him prior to beginning of the project and that he had no objection to the spreading of topsoil on his property. The letter is included as part of this application for your reference.
- 5. The proposed grading is at a 2:1 slope (1 foot contour intervals are shown) and rolled erosion control product is proposed to be used therefore we do not believe the source of fill material or information pertaining to the placement of fill, including compaction need to be identified.

- 6. Proposed grading is at a 2:1 slope (1 foot contour intervals are shown) and rolled erosion control product is proposed to be used therefore we do not believe the proposed slope needs to be evaluated with a report prepared by a Geotechnical Design Professional.
- 7. A proposed stabilized construction entrance and temporary gravel construction access drive are shown North of the existing dwelling on Sheet C-1.
- 8. The Orange County Property Data webpage identifies the existing residence as a "3bedroom ranch." A copy of the property description has been included as part of this submission.
- A cut / fill figure (Sheet F-1) has been prepared which compares the contour data provided by Steven P. Drabick P.L.S. (which has been raised 2 feet to approximate the North American Vertical datum of 1988) and USGS 1M hydro-flattened digital elevation models (DEMS) as derived from 2012 source lidar. The volume of fill placed on site is approximately 2,345 cubic yards.
- 10. No response required.
- 11. See response to comment #9. Less than 3,000 cubic yards of material has been brought on site. Planning Board approval and a public hearing should not be required.

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

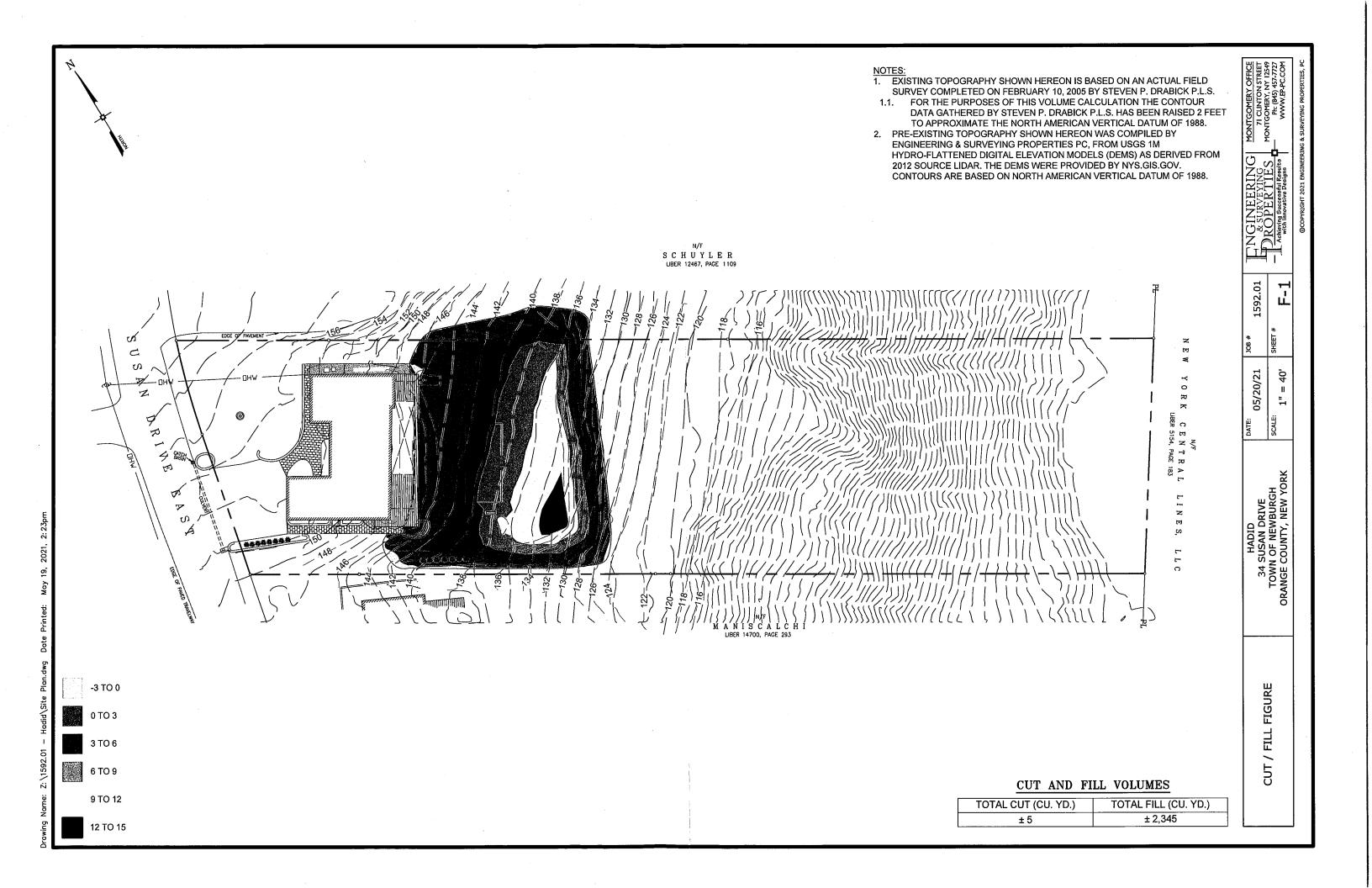
### Sincerely,

Engineering & Surveying Properties, PC

Ŕoss Winglovitz, P.E. Principal

M. R

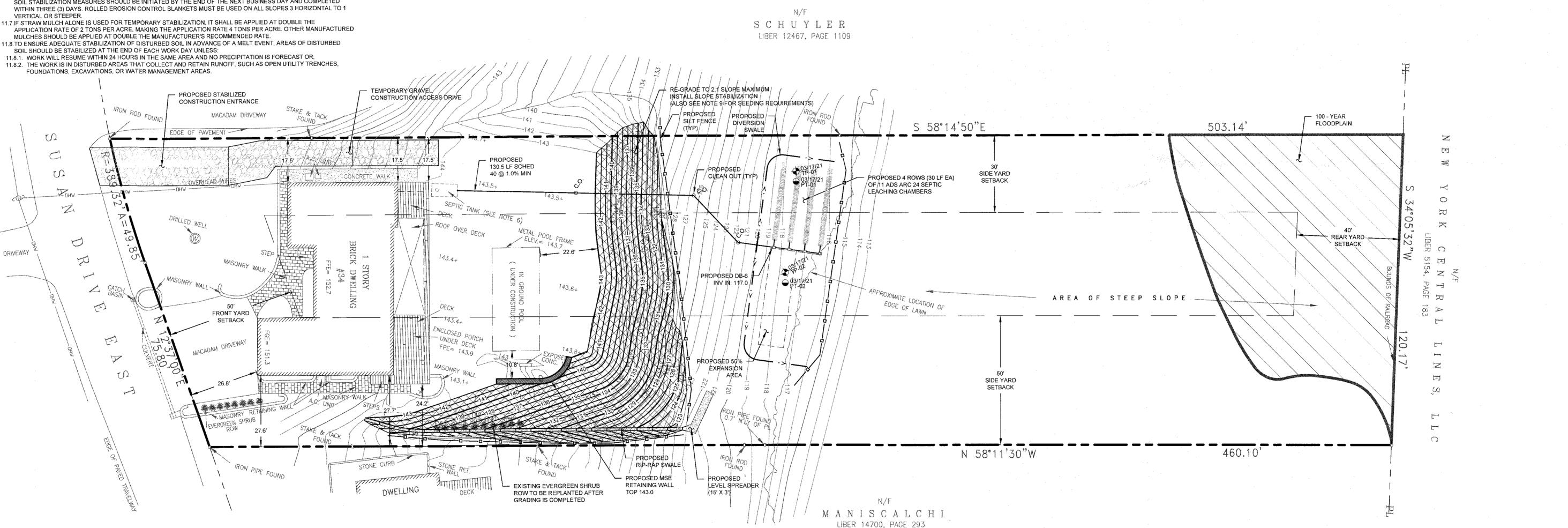
Reuben Buck Project Engineer



# EROSION & SEDIMENTATION CONTROL NOTES

- 1. SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. 2. TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES, TEMPORARY SWALES, STONE CHECK DAMS SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION OF THE PROPOSED ROADWAY OR
- DWELLING UNITS. 3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT RE-ESTABLISHMENT OF VEGETATION: 3.1. AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND
- OBSTACLES. 3.2. LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0. 3.3. FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED FOR ESTABLISHING NEW LAWNS PER SITE SPECIFIC 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 <u>PLUS</u> 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. 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 PERENNIAL RYE GRASS Ibs./Acre
- CROWN VETCH SPREADING FESCUE
- 10. OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15. 11. FOR CONSTRUCTION THAT OCCURS DURING WINTER MONTHS (i.e. NOVEMBER 15 - APRIL 1) ADDITIONAL MEASURES SHALL BE TAKEN IN ACCORDANCE WITH THE STANDARD & SPECIFICATIONS FOR WINTER STABILIZATION SECTION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION CONTROL, LATEST EDITION AS PUBLISHED BY THE NYSDEC SUCH AS BUT NOT LIMITED TO THE FOLLOWING:
- 11.1.ENSURING COMPLIANCE WITH SNOW STORAGE STOCKPILE AREAS. 11.2. SNOW STOCKPILES AT CONSTRUCTION ENTRANCE SHALL BE OUTSIDE THE STABILIZED CONSTRUCTION ENTRANCE TO ENSURE THE FUNCTIONALITY OF THE EROSION CONTROL MEASURE.
- 11.3.MAINTAIN BUFFERS TO ALL PERIMETER SILT FENCES. 11.4.INSTALL ADDITIONAL SILT FENCE AS NECESSARY FOR ANY DISTURBED AREAS UP GRADIENT OF A WATER BODY. 11.5.PROVIDE MAINTENANCE OF ALL DRAINAGE STRUCTURE TO KEEP CLEAR OF SNOW, ICE, DEBRIS, ETC.
- 11.6.IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES SHOULD BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN THREE (3) DAYS. ROLLED EROSION CONTROL BLANKETS MUST BE USED ON ALL SLOPES 3 HORIZONTAL TO 1 VERTICAL OR STEEPER.
- APPLICATION RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE. OTHER MANUFACTURED MULCHES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
- SOIL SHOULD BE STABILIZED AT THE END OF EACH WORK DAY UNLESS: 11.8.1. WORK WILL RESUME WITHIN 24 HOURS IN THE SAME AREA AND NO PRECIPITATION IS FORECAST OR;

FOUNDATIONS, EXCAVATIONS, OR WATER MANAGEMENT AREAS.



TOWN OF NEWBURGH PLANNING BOARD APPROVAL BOX						
	NEWBURGH PB #2021-1					

# 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 (IF ANY) SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.

- 3. COMPLETION OF GRADING AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "SEDIMENTATION EROSION CONTROL".
- 4. STABILIZATION OF ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
- 5. SOIL RESTORATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL REMAIN AS PERVIOUS SURFACES WITH A SLOPE LESS THAN 10%. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING:
- 5.A. APPLY 3 INCHES OF COMPOST OVER SUBSOIL 5.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.
- 5.C. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
- 5.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
- 5.E. VEGETATE IN ACCORDANCE WITH LANDSCAPE PLAN.

# BULK REQUIREMENTS

TOWN OF NEWBURGH - ZONING DISTRICT R1 EXISTING USE: SINGLE-FAMILY DWELLING (USE ATTACHMENT 7 §185-C(1))

MINIMUM BUILDING REQUIREMENTS	REQUIRED	EXISTING		
LOT AREA	40,000 SF	57,866 SF		
LOT WIDTH	150 FEET	126.7 FEET *		
LOT DEPTH	150 FEET	483.1 FEET		
FRONT YARD	50 FEET	26.8 FEET *		
REAR YARD	40 FEET	389.6 FEET		
SIDE YARD (ONE / BOTH)	30 / 80 FEET	17.5 / 45.2 FEET *		
HABITABLE FLOOR AREA	1,500 SF	2,420 SF		
MAXIMUM ALLOWABLE	ob			
BUILDING HEIGHT	35 FT	< 35 FT		
LOT COVERAGE (BUILDINGS)	10 %	< 10 %		
LOT COVERAGE (SURFACE)	20 %	< 20 %		

\* PRE-EXISTING, NON-CONFORMING

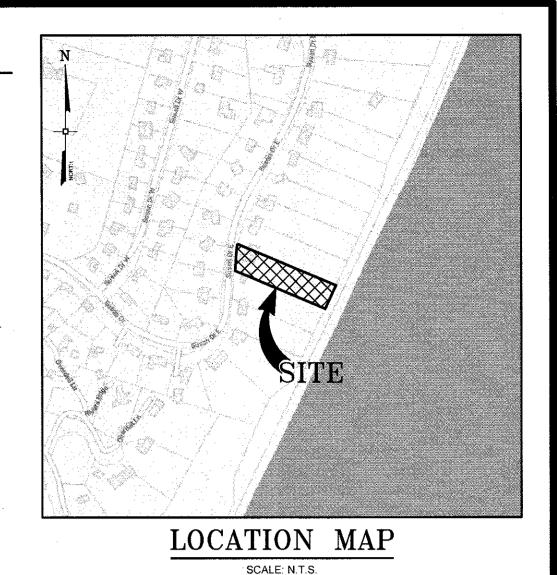
No.	DATE	DESCRIPTION		DRAWING STATU
1	05/20/21	REVISED PER PB ENGINEER COMMENTS 05/06/21		THIS SHEET IS PART OF THE PLAN SET ISSUED FOR
			1	CONCEPT APPROVAL
			4	PLANNING BOARD APPROVAL
			1	OCDOH REALTY SUBDIVISION APPROV
			1	OCDOH WATERMAIN EXTENSION APPR
			4	NYSDEC APPROVAL
			1	NYSDOT APPROVAL
				OTHER
		· · · · · · · · · · · · · · · · · · ·	1	FOR BID
			1	FOR CONSTRUCTION
				THIS PLAN SET HAS BEEN ISSUED SPEC APPROVAL OR ACTION NOTED ABOVE AN FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INV ACCOMPANIED BY ALL SHEETS OF THE D

## GENERAL NOTES

- 1. TAX MAP IDENTIFICATION NUMBER: SECTION 46 BLOCK 5 LOT 21
- 2. TOTAL AREA OF SUBJECT PARCEL: 1.3284± ACRES (57,865± SQ.FT.).

3. DEED REFERENCES: 3.1. DEED LIBER 5496, PAGE 201

- 4. MAP REFERENCES: 4.1. A MAP ENTITLED "SURVEY OF PROPERTY FOR AHMAD & CHERIFA
- HADID" BY STEVEN P. DRABICK P.L.S., PC DATED DECEMBER 9, 2020. 5. OWNER/APPLICANT: AHMAD HADID
  - 34 SUSAN DRIVE NEWBURGH NY, 12550
- 6. CONTRACTOR TO CONFIRM SEPTIC TANK IS CONCRETE, IN GOOD CONDITION AND A 1,000 GALLON TANK OR GREATER.
- THE EXISTING LOT IS SERVICED BY PRIVATE WELL AND SEWAGE DISPOSAL SYSTEM. THE LOCATION OF THE SEWAGE DISPOSAL SYSTEM AS SHOWN HEREON IS APPROXIMATED AS PER CONTRACTOR AND HOME OWNER.



				· · · · · · · · · · · · · · · · · · ·							
5		JE D/ /20/		WITHOUT	OF THIS DOCUMEN	T	ENGINEERING & SURVEYING 71 CLINTON STREET				
		SHEET IUMBER		ENGINEE AND AN (	LE OF THE R'S SIGNATURE ORIGINAL STAMP I		Achieving Successful Results Ph: (845) 457-7727				
	N/A	OF	N/A		BLUE INK SHALL BI RED INVALID.	I MA Ka KAT	with Innovative Designs WWW.EP-PC.COM				
	N/A	OF	N/A			1 Et Broker a					
	N/A			UNAUTHO	ORIZED IONS OR		SITE PLAN				
/AL	N/A	OF	N/A		NS TO THIS						
	N/A	DUCUMENT BEARING THE		000 07170 E	HADID						
	N/A	OF	N/A		PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER IS A VIOLATION OF			CESSION P	34 SUSAN DRIVE
	N/A	OF	N/A	SECTION	SECTION 7209 SUBSECTION						
	N/A	OF	N/A	2 OF THE EDUCATI	E NEW YORK STATE ON LAW.	RUSS WINGLOVITZ, P.E.	ORANGE COUNTY, NEW YORK				
	1	OF	2		· · ·	NEW YORK LICENSE # 071701	JOB #: DRAWN BY:				
ICALLY FOR THE SHALL NOT BE USED		20			DATE: SCALE: 01/06/21 1" = 20' C-1						
LID UNLESS NOTED PLAN SET(S).			S).			1 inch = 20 ft.	REVISION: TAX LOT: 1 - 05/20/21 46-5-21				

LOT #	PERC HOLE #	PERC HOLE DEPTH	PERC HOLE DIA	TIME	STOPWAT	OLATION TEST CH USED FOR / 1" DROP IN WA	ALL TESTS	STABLIZED RATE
	03/17/21 PT-1			FINISH				
1		1 24"	8"	START	STOPWATCH	USED FOR TIM		2 MIN
				TIME	00:00:58	00:01:03	00:01:05	
				FINISH	**************************************			
1	03/17/21 PT-2	24"	8"	START	STOPWATCH	USED FOR TIM		5 MIN
	1 1-2			TIME	00:02:35	00:04:13	00:04:30	

LOT #	TEST HOLE #	DATE	DEPTH	DESCRIPTION
1	TP-1	03/17/21	0" - 4" 4" - 48" 48" - 96"	TOPSOIL TAN, SILTY, CLAY LOAM BROWN, SANDY, GRAVELLY LOAM GROUNDWATER @ 90", NO BEDROCK, NO MOTTLING
1	TP-2	03/17/21	0" - 4" 4" - 34" 34" - 75" 75" - 96"	TOPSOIL TAN, SILTY LOAM BROWN, GRAVELLY, SILTY LOAM BROWN, GRAVELLY LOAM GROUNDWATER @ 84"

LOT	EXISTING BEDROOMS	DESIGN PERC RATE (min)	FLOW RATE (GPD)	APPLICATION RATE (GPD/Sq. ft.)	REQUIRED AREA (Sq. ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft)	REQUIRED FIELD LENGTH (ft) BASED USING GRAVELESS CHAMBERS (25% REDUCTION)	PROPOSED ABSORPTION FIELD LENGTH (ft)
1	3	5	330	1.20	275	138.6	104	4 LATERALS @ 30'

