



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

PROJECT NAME: HADID CLEARING & GRADING APPLICATION-34 SUSAN DR
PROJECT NO.: 2021-10
PROJECT LOCATION: SECTION 46, BLOCK 5, LOT 21
REVIEW DATE: 26 AUGUST 2021
MEETING DATE: 2 SEPTEMBER 2021
PROJECT REPRESENTATIVE: ENGINEERING & SURVEYING PROPERTIES

1. The Applicants representatives have identified that a Geotechnical Report has been prepared regarding the stability of the fill on the site. This office has not received a copy of the Geotech Report.
2. The proposed re-grading of the fill which has been placed on the site identifies the removal of approximately 425 cubic yards of material previously placed on the site.
3. Total volume of fill after re-grading of the existing fill on the site is 2,050 cubic yards. The Town of Newburgh Clearing and Grading Ordinance Chapter 83 of the Town Code contains a hierarchy of requirements based on the amount of fill. A Public Hearing is optional for filing less than 3000 cubic yards and is left to the discretion of the Planning Board. Fill in excess of 3,000 feet triggers a required Public Hearing.
4. The Applicants representatives have redesigned the proposed grey water line between the septic tank and the new proposed leech field. Energy dissipation has been considered in the design with the addition of a distribution box with baffle prior to the leeching fields.

Respectfully submitted,

MHE Engineering, D.P.C.

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

Patrick J. Hines
Principal

PJH/kbw

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www.EngineeringPropertiesPC.com

August 19, 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 May 28, 2021 from MH&E Consulting Engineers, D.P.C. Below is a comment-by-comment response;

1. To the best of our knowledge the fill was placed as part of the building permit for the pool and following the issuance of a stop work order, no further fill or grading was conducted. The applicant appears before the Planning Board now to receive the necessary approvals to continue work.
2. After completing the clearing and grading permit application Steven P. Drabick P.L.S. provided our office with an updated survey with 1-foot contours based on the North American Vertical Datum of 1988. Using the updated topographical information, it was determined that 2,525 cubic yards of fill was brought onto the site. Following the regarding of the backyard a net 2,050 cubic yards will remain on site while 475 cubic yards will need to be exported. The applicant has completed a revised clearing and grading permit application which reflects the updated cut / fill calculations.

The plan set has been revised so that pre-filling site conditions, current site conditions and proposed site conditions can be evaluated by the Planning Board.

Retaining wall is no longer being proposed.

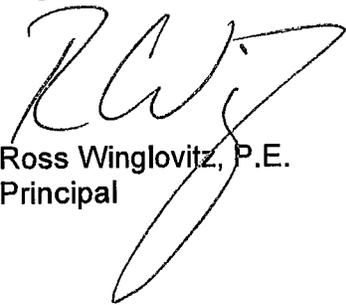
Evergreen shrub row was removed during the filling of the backyard and is no longer proposed to be replanted.

Depth of the proposed sanitary sewer pipe has been revised. Additionally, a manhole box with a baffle is proposed at the toe of the steep slope to slow the flow of effluent prior to entering the septic field.

7. Please find the attached as part of this application a geotechnical report prepared by Geotechnical Engineering Services, P.C. In summary the fill will be stable if graded to a slope of 2:1.
8. The total amount of fill brought on site and the amount which is to be removed is identified on the clearing and grading permit application. The plan set details a stabilized construction entrance which will be used to load and remove excess fill from the property.
9. The applicant respectfully requests that the Planning Board not require a public hearing as a public hearing is optional when less than 3,000 cubic yards of fill is proposed.
10. Please see comment response #7.

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

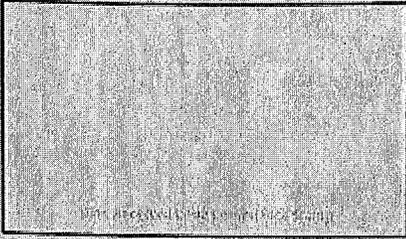
Sincerely,
Engineering & Surveying Properties, PC



Ross Winglovitz, P.E.
Principal



Reuben Buck
Project Engineer



Town of Newburgh
Clearing & Grading Permit Application

21 Hudson Valley Professional Plaza
 Newburgh, NY 12550

Phone: (845)564-7801 Fax: (845)564-7802

(Please Print)

Job Location: 34 Susan Drive, Newburgh, NY 12550

S.B.L.: 46-5-21 Construction Cost: To be determined

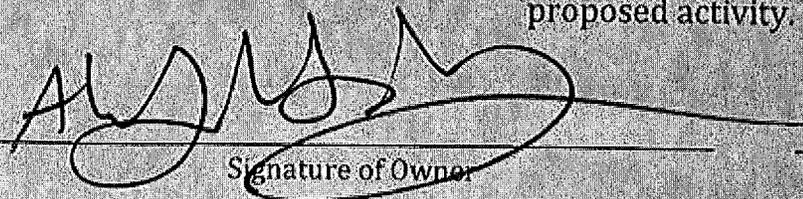
Permit #: _____
Tracking #: _____
Fee: \$ _____ <small>Exact Cash or Check ONLY</small>
Receipt #: _____
(OFFICE USE ONLY)

OWNER: Ahmad Hadid	APPLICANT: <input checked="" type="radio"/> Y <input type="radio"/> N	CONTRACTOR: To be determined	APPLICANT: <input type="radio"/> Y <input checked="" type="radio"/> N
ADDRESS: 34 Susan Drive	ADDRESS:		
CITY/STATE/ZIP: Newburgh, New York, 12550	CITY/STATE/ZIP:		
PHONE: (845) 527 - 7205	PHONE:	FAX:	
CONTACT EMAIL: hadid12550@hotmail.com	CONTACT EMAIL:		

SIZE OF LOT: 1.3284 acres	ZONING DISTRICT: R1
PROPOSED DATE/TIME OF COMPLETION: To be determined	
DATE OF PLANNING BOARD APPROVAL (IF REQUIRED):	
SUBDIVISION NAME (IF REQUIRED):	

\$150.00 FOR APPLICATION
\$50.00 PRIOR BUILT FEE RESIDENTIAL \$200.00 PRIOR BUILT FEE COMMERCIAL

I hereby agree to hold the Town of Newburgh harmless from any claims arising from the proposed activity.



 Signature of Owner

08/10/2021

 Date

Clearing and Grading Permit Application (Con't)

State the nature and purpose of the proposed activity:

- Drawings showing the boundaries of the parcel will be conducted
- A plan showing the areas proposed to be cleared, filled or graded or subjected to timber harvesting and nature of the vegetation affected.
- An erosion control plan
- Documentation regarding permit status with the New York State Department of Environmental Conservation permit required must be in effect prior to the Town's issuance of a permit
- Plans must show the type of vegetation to be destroyed by the proposed activities along with the planned disposition of the material
- Drainage computations prior to site preparation and after site preparation may be required
- Nature of Proposed activity:
 - o Clearing _____ Acreage
 - o Excavation 475 Cubic Yards
 - o Filling 2,050 (net) Cubic Yards
 - o Grading 0.20 Acreage

<i>Status</i>	<i>Date</i>
Examined	_____
Approved	_____
Disapproved	_____

PERCOLATION TEST RESULTS

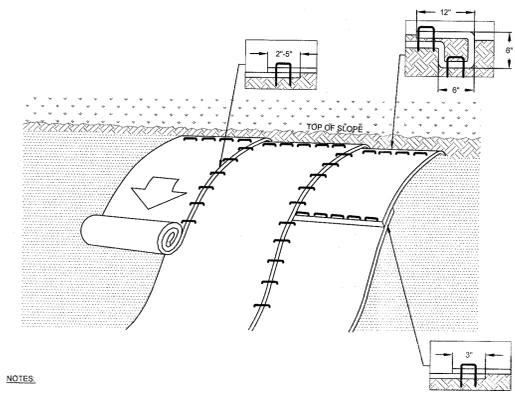
LOT #	PERC HOLE #	PERC HOLE DEPTH	PERC HOLE DIA	TIME	PERCOLATION TEST RUNS STOPWATCH USED FOR ALL TESTS (TIME FOR 1" DROP IN WATER LEVEL)	STABILIZED RATE
1	03/17/21 PT-1	24"	8"	FINISH		2 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS	
				TIME	00:00:58 00:01:03 00:01:05	
1	03/17/21 PT-2	24"	8"	FINISH		5 MIN
				START	STOPWATCH USED FOR TIMED INTERVALS	
				TIME	00:02:35 00:04:13 00:04:30	

DEEP TEST HOLE RESULTS

LOT #	TEST HOLE #	DATE	DEPTH	DESCRIPTION
1	TP-1	03/17/21	0'-4" 4'-48" 45'-50"	TOPSOIL TAN, SILTY, CLAY LOAM BROWN SANDY GRAVELLY LOAM GROUNDWATER @ 90', NO MOTTLING
1	TP-2	03/17/21	0'-4" 4'-34" 34'-75" 75'-90"	TOPSOIL TAN, SILTY LOAM BROWN GRAVELLY SILTY LOAM GROUNDWATER @ 84'

SEPTIC SYSTEM DESIGN SCHEDULE

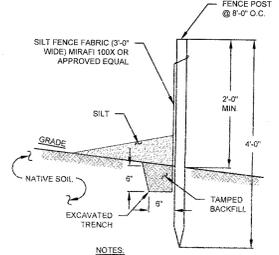
LOT	EXISTING BEDROOMS	DESIGN PERC RATE (min)	FLOW RATE (GPD)	APPLICATION RATE (GPD/Sq. Ft.)	REQUIRED AREA (Sq. Ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft)	REQUIRED FIELD LENGTH (ft) BASED USING GRAVELLESS CHAMBERS (25% REDUCTION)	PROPOSED ABSORPTION FIELD LENGTH (ft)
1	3	5	330	1.20	275	138.6	104	4 LATERALS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



- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCT (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED
 2. INSTALL RECP - NORTH AMERICAN GREEN BIGNET S1608N OR APPROVED EQUAL. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FILL REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACE APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
 3. ROLL THE RECP'S DOWN THE SLOPE OR HORIZONTALLY ACROSS THE SLOPE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE PRODUCT'S STAPLE PATTERN GUIDE.
 4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" TO 3" OVERLAP DEPENDING ON RECP'S TYPE.
 5. CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" APART ACROSS THE ENTIRE RECP'S WIDTH.

SLOPE STABILIZATION (ROLLED EROSION CONTROL PRODUCT)

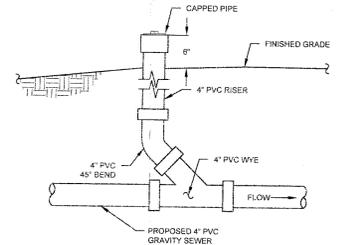
SCALE: N.T.S.



- 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

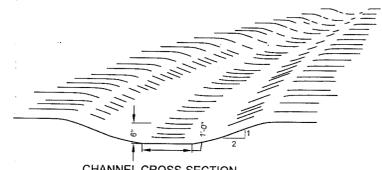
SILT FENCE

SCALE: N.T.S.



TYPICAL CLEANOUT

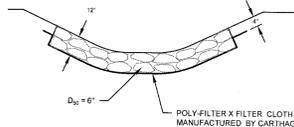
SCALE: N.T.S.



- 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 EXCELISOR MATTING UNTIL THE VEGETATION IS ESTABLISHED.

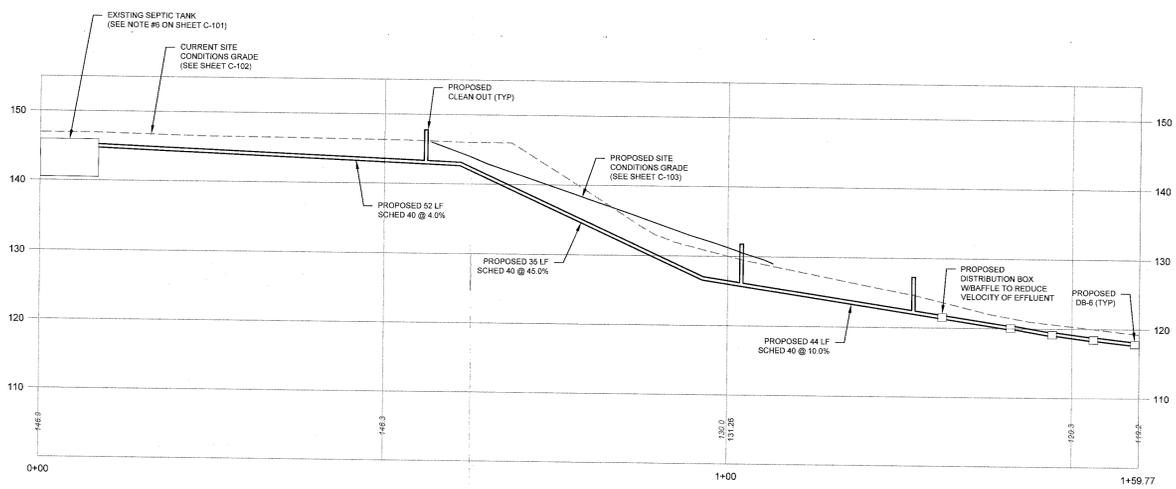
GRASSED SWALE

SCALE: N.T.S.



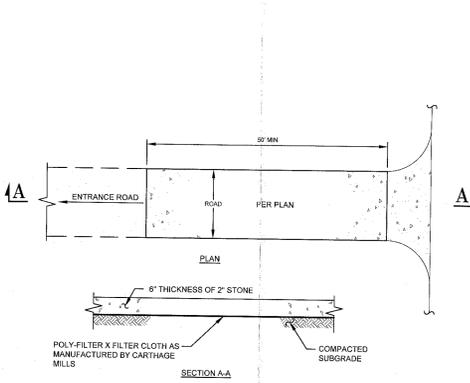
RIP-RAP SWALE

SCALE: N.T.S.



SANITARY SEWER DISPOSAL SYSTEM PROFILE

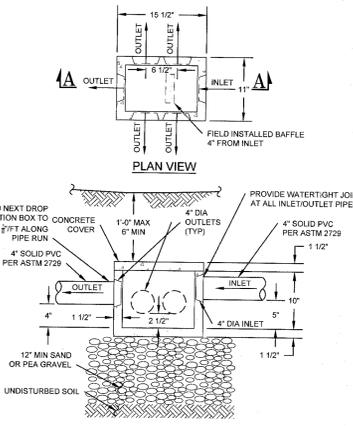
SCALE: 1" = 10' H
1" = 10' V



- NOTES:**
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. WIDTH - 24 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH 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 BE 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 RAIN.

STABILIZED CONSTRUCTION ENTRANCE

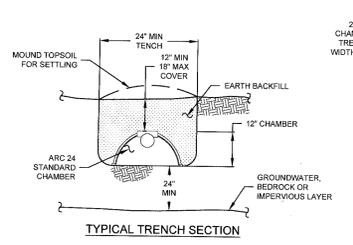
SCALE: N.T.S.



- NOTES:**
1. DROP BOX AS MANUFACTURED BY WOODWARD'S CONCRETE PRODUCTS, INC. CATALOG NO. DB-508 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

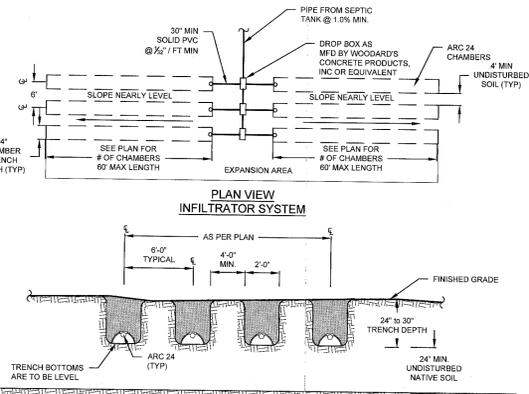
6 HOLE DROP DISTRIBUTION BOX

SCALE: N.T.S.



TYPICAL TRENCH SECTION

SCALE: N.T.S.



ABSORPTION TILE FIELD OVERALL PLAN

SCALE: N.T.S.

1. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM THE HOUSE. THERE SHALL BE NO REGRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
2. GARBAGE GRINDERS AND/OR JACOZZI TYPE SPA TUBS OVER 100 GALLONS ARE NOT PERMITTED WITHOUT THE SYSTEM BEING REDESIGNED AND REAPPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH.
3. CELLAR DRAINS, ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF THE TILE FIELDS OR WELLS.
4. SWIMMING POOLS, DRIVEWAYS AND/OR STRUCTURES THAT MAY COMPACT THE SOIL ARE NOT TO BE CONSTRUCTED OVER TILE FIELDS.
5. ASPHALTIC SEALS SHALL BE MAINTAINED BETWEEN THE SEPTIC TANK, AND ALL PIPES AND COVERS.
6. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
7. GROUT ALL PIPE PENETRATIONS INTO AND OUT OF ANY DISTRIBUTION OR DROP BOX.
8. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION, 'INDIVIDUAL RESIDENTIAL WASTEWATER TREATMENT SYSTEMS DESIGN HANDBOOK', LATEST EDITION, AND APPENDIX 75-A OF THE NEW YORK STATE DEPARTMENT OF HEALTH.
9. ABSORPTION TRENCH PIPE TO BE CAPPED AT END.
10. ABSORPTION SYSTEM TO BE LOCATED A MINIMUM DISTANCE OF 20 FEET FROM ANY DWELLING UNIT.
11. SEPTIC TANK JOINTS MUST BE SEALED AND TESTED FOR WATER TIGHTNESS.
12. PROVIDE 2" OF SOLID PIPE PRIOR TO START OF PERFORATED ABSORPTION PIPE AND BE BACKFILLED WITH NATIVE MATERIAL.
13. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK OR WELLS TO DISCHARGE THROUGH THE STACK VENT.
14. DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.
15. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO TO AS TO AVOID ANY UNDUPLICATE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.

No.	DATE	DESCRIPTION
1	05/20/21	REVISED PER PE ENGINEER COMMENTS 05/06/21
2	08/19/21	REVISED PER PE ENGINEER COMMENTS 05/28/21

DRAWING STATUS		ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		08/19/21
CONCEPT APPROVAL	N/A	OF N/A
PLANNING BOARD APPROVAL	N/A	OF N/A
OCODH REALTY SUBDIVISION APPROVAL	N/A	OF N/A
OCODH WATERMAIN EXTENSION 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	4	OF 4

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ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071201

ENGINEERING PROPERTIES
Achieving Successful Results with Innovative Designs

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MONTGOMERY, NY 12549
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WWW.EP-PC.COM

DETAILS

HADID
34 SUSAN DRIVE
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

JOB #: 1592.01
DATE: 01/06/21
REVISION: 2 - 08/19/21

DRAWN BY: RMB
SCALE: AS NOTED
TAX LOT: 46-5-21

C-301

ORIGINAL SCALE IN INCHES

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before you dig