TOWN OF GREENBURGH
DEPARTMENT OF PUBLIC WORKS
Bureau of Engineering
177 Hillside Avenue, Greenburgh, NY 10607
Office (914) 989-1583 Fax (914) 989-1598
Web Site http://www.greenburghny.com

Greenburgh Recycles

RICHARD FON
Commissioner

Brian Simmons
Deputy Commissioner

June 16, 2022

Peter Vulpone
63 Donald Drive
Hastings-on-Hudson, NY 10706

Re: **Level sloped site with retaining walls**
63 Donald Drive
Steep Slope Clearance Form N°. 4725
Steep Slope Permit Application

Dear Applicant:

We have reviewed the Slope Clearance Form and supporting materials for the above referenced project. Our review of this application reveals that portions of this project will disturb a minimum contiguous area of 500 square feet, one dimension of which is a minimum of 10 feet, containing a degree of slope noted to be equal to or greater than 15%. As such, as per § 245-5(B)(2) of the Town Code, this project requires that a Steep Slope Permit Application be submitted, and ultimately referred to the Town Planning Board for consideration under the Steep Slope Law.

In order for review of your application to proceed, you must submit a completed Steep Slope Permit Application Form in triplicate (copies enclosed), the application fee of $200.00, as well as any related background information. Please ensure that these application materials, when complete, contain all information required by § 245-6. (A)(1) - (18) of the Steep Slope Law, as outlined below:

A. Planning Board steep slope permit application contents. A Planning Board steep slope permit application must be made in writing on forms prescribed by the Town Engineer and contain the following information:

(1) Name and post office address of the owner and applicant;
(2) Street address and tax map designation of property covered by the application;
(3) Statement of authority from the owner for any agent making application;
(4) Statement of proposed work and purpose thereof, and an explanation why the proposed activity cannot be located at another site;

(5) Three copies of complete plans drawn to a scale of not less than one inch equals 50 feet, certified by a New York State Licensed Engineer, Registered Architect or Land Surveyor. A New York State Licensed Landscaped Architect may also prepare plans as allowed by New York State Education Law;

(6) Location of proposed construction or area of disturbance and its relationship to any property line, easement, building, structure, road, wall, fence, sewage disposal system, well, wetland feature or tree exceeding six inches in diameter measured at a height of four feet from the ground;
(7) Estimated material quantities of excavation or fill and number/species and size of trees to be removed;
(8) Location and size of areas of soils by soil types in the area of proposed disturbance and to a distance of 100 feet surrounding the area of disturbance;
(9) Existing and proposed contours (National Geodetic Vertical Datum) at two-foot intervals in the area of proposed disturbance and to a distance of 100 feet beyond;
(10) Cross sections of steep slope areas;
(11) Retaining walls or like constructions, with details of construction;
(12) Erosion and sedimentation control plan, including installation details of proposed control measures, directive construction notations and a schedule for the installation and maintenance of proposed control measures;
(13) Other details, including specific reports by qualified professionals on soils, geology and hydrology, and borings or test pits, as may be determined to be necessary by the Town Engineer and/or Planning Board;
(14) A list of all applicable county, state or federal permits required for such work or improvements;
(15) An environmental assessment form;
(16) Listing of names and addresses of property owners of record, along with the address and tax map identification of properties within 500 feet of the property that is subject of this application; and
(17) A narrative of compliance with the review standards established in §245-7A.
(18) An application fee in the amount set forth in a fee schedule established under Chapter 230.

In addition to the above, you will also be required to submit at this time the information referenced in § 245-7.B. (2) and (3) (a)-(d), as noted below.

(2) Record. The Planning Board record must consist of a slope clearance form and the Planning Board steep slope application requirements, as set forth in § 245-6A.

(3) Notice. The Planning Board shall not review any permit application unless the applicant has established by affidavit that notification to property owners within 500 feet of the property that is the subject of the application, by U.S. Postal Service regular mail, has been complied with. The notices, at a minimum, shall contain the following:
(a) Name and post office address of the owner and applicant and the street address and tax map designation of property covered by the applicant;
(b) The applicant has applied for site plan, subdivision steep slope, or other application approval, as the case may be;
(c) The approval involves slope disturbance;
(d) The nature of the proposed work and purpose thereof;

(e) *The application is available for inspection at the Department of Community Development and Conservation;*

(f) *The fact that a hearing will be held on the application, the date, the time and place of the hearing, and that individuals will be given opportunity to be heard;*

(g) *The Department of Community Development and Conservation will accept and consider any written comment to the extent it addresses any matter relating to this chapter received prior to the close of the public hearing comment period;*

Please be aware that, upon a successful preliminary review of your application materials, the Planning Board will schedule a public hearing regarding this Steep Slope Permit Application. Prior to the public hearing, you will be required to comply with the remainder of the notification obligations of § 245-6.A. (16), and § 245-7.B. (2) and (3), as referenced above, and to supply the Planning Department with 12 additional copies of the full set of application materials.

For your information, the following is a generic list of compliance criteria against which the Bureau of Engineering must review each Steep Slope Permit Application. It would be in your interest to ensure that your application addresses this information, in order that the timeframe of application review may be kept to a minimum.

Steep Slope Application Review Criteria required by § 245-7.(A)(1)-(25) and § 245-7.(B)(7) (a)-(i):

A. *Review standards. In evaluating the permit application, the Planning Board, with assistance from the Town Engineer, shall ensure that:*

(1) *The planning, design and development of buildings minimize flooding and provide appropriate structural safety, slope stability, and human enjoyment while adapting the affected site to, and taking advantage of, the best use of the natural terrain and aesthetic character;*

(2) *Roads and driveways follow the natural topography to the greatest extent possible in order to minimize the potential for erosion, and are consistent with other applicable regulations of the Town of Greenburgh and current engineering practices;*

(3) *Habitat is quantified and protected, no endangered species of flora or fauna are adversely impacted and any replanting shall be maintained by the applicant for two years and consist of indigenous vegetation that at a minimum replicates the original vegetation on the site, in kind;*

(4) *The natural elevations and vegetative cover of ridgelines may be disturbed only if the crest of a ridge and the tree line at the ridge remain uninterrupted. This may be accomplished either by positioning buildings and areas of disturbance below a ridgeline or by positioning buildings and areas of disturbance at a ridgeline so that the elevation of the roof line of the building is no greater than the elevation of the natural tree line, so long as no more than 100 feet along the ridgeline, to a width of 100 feet generally centered on the ridgeline, is disturbed;*

(5) *Any regrading blends in with the natural contours and undulations of the land;*

(6) *Cuts and fills are rounded off to eliminate sharp angles at the top, bottom, and sides of regraded slopes;*

(7) *The angle of cut and fill slopes does not exceed a slope of one vertical to two horizontal except where retaining walls, structural stabilization, or other methods acceptable to the Town Engineer and/or Planning Board are used;*

(8) *Tops and bottoms of cut and fill slopes are set back from structures an adequate distance to ensure the safety of the structures in the event of the collapse of the cut or fill slopes. Generally,*

such distance is six feet plus 1/2 the height of the cut or fill;

(9) *Disturbance of rock outcrops is by means of explosive only if labor and machines are not effective and only if rock blasting is conducted in accordance with all applicable regulations of the Town of Greenburgh and the State of New York. The rock shall be effectively stabilized;*

(10) *Disturbance of slopes is undertaken in workable units so that the disturbance can be completed and stabilized in one construction season and so that areas are not left bare and exposed during the period from December 15 through April 15;*

(11) *Disturbance of existing vegetative ground cover does not take place more than 15 days prior to grading and construction;*

(12) *Temporary soil stabilization, including, if appropriate, temporary stabilization measures such as netting or mulching to secure soil during the grow-in period, is applied to an area of disturbance within two days of establishing the final grade, and permanent stabilization is applied within 15 days of establishing the final grade;*

(13) *Soil stabilization is applied within two days of disturbance if the final grade is not expected to be established within 60 days;*

(14) *Measures for the control of erosion and sedimentation are undertaken consistent with the Westchester County Soil and Water Conservation District's "Best Management Practices Manual for Erosion and Sediment Control," and New York State Department of Environmental Conservation "Guidelines for Urban Erosion and Sediment Control," as amended, or its equivalent satisfactory to the Planning Board;*

(15) *All proposed disturbance of slopes is undertaken with consideration of the soils limitations characteristics contained in the Identification Legend, Westchester County Soils Survey, 1989, as prepared by the Westchester County Soil and Water Conservation District, in terms of recognition of limitation of soils on slopes for development and application of all mitigating measures, and as deemed necessary by the Town Engineer and/or Planning Board;*

(16) *Topsoil is removed from all areas of disturbance, stockpiled and stabilized in a manner to minimize erosion and sedimentation, and replaced elsewhere on the site at the time of final grading;*

(17) *Topsoil stockpiling is not permitted on areas of greater than 10% gradient;*

(18) *Fill material is no less granular than the soil upon which it is placed, and no organic material or rock with a size that will not allow appropriate compaction or cover by topsoil can be used as fill material;*

(19) *Compaction of fill materials in fill areas is such to ensure support of proposed structures and stabilization for intended uses;*

(20) *Structures are designed to fit into the hillside rather than altering the hillside to fit the structure, employing methods such as reduced footprint design, step-down structures, stilt houses, and minimization of grading outside the building footprint;*

(21) *Development is sited on that portion of the site least likely to impact the natural landforms, geological features, and vegetation;*

(22) *The applicant has provided landscaping plans for after-development;*

(23) *The development conforms with the requirements set forth in § 285-39E;*

(24) *The construction equipment has adequate access as not to disturb anything outside the approved construction envelope; and*

(25) *At the discretion of the Town Engineer and/or Planning Board, a construction safety plan may be required and shall be reviewed and approved by the Traffic Safety Officer of the Town of Greenburgh.*

B. *Procedure.*

(7) *Determination. In evaluating the Planning Board steep slope application, the Planning*

Board must employ the standards set forth in § 245-7A. In approving any application, the Planning Board may impose such conditions or limitations as it determines necessary to ensure compliance with the intent, purpose and standards of this chapter. In approving any application, the Planning Board must find that the proposed activity:

(a) Is in accordance with the legislative findings of this chapter;
(b) Is consistent with the provisions of § 285-39E;
(c) Will not result in creep, sudden slope failure, rock failure or additional erosion;
(d) Has no reasonably feasible on-site alternative, after consideration of reduction in buildable area, change in use, revision of road or lot layout, revision in the location of buildings, structures, driveways, other site construction or land-altering activities, or related site planning considerations that could otherwise reasonably accomplish the applicant's objectives.
(e) Will preserve and protect existing wetlands, watercourses, and adjacent areas, as defined in Chapter 280;
(f) Will not adversely affect existing or proposed wells or sewage disposal systems;
(g) Is the best alternative, after consideration of an area not presently owned by the applicant that could reasonably be obtained, utilized, expanded or managed in order to fulfill the basic purpose of the proposed activity, if it is otherwise a practicable alternative;
(h) Will not adversely affect any endangered species of flora or fauna;
(i) Is compatible with the public health and welfare

If you have any questions, or require further information, please call the Bureau of Engineering at your convenience.

Very truly yours,

James Meehan, P.E.
Interim Town Engineer

cc. Garrett Duquesne – Planning Department
Robert Dam – Building Department
Jonathan Bashan - Design Professional of Record

TOWN OF GREENBURGH DEPARTMENT OF PUBLIC WORKS
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Greenburgh Recycles

RICHARD C. FON
Commissioner
BRIAN E. SIMMONS, P.E.
Deputy Commissioner

4725

SLOPE CLEARANCE FORM

THIS FORM MUST BE COMPLETED BY A LICENSED PROFESSIONAL (P.E., L.S. or R.A.)
UNLESS AN EXEMPTION IS CLAIMED AS PER § 245-11 OF THE TOWN CODE

For a complete submission, please submit the following: (Incomplete submissions will be returned without review)

- Three (3) copies of this Slope Clearance Form;
- Three (3) copies of a Site Plan, which includes two (2) foot topographical contours. Site topography must be cross-hatched or colored to differentiate each individual slope category noted in parts 5 & 6 below. *(If property slopes are certified to be limited to less than 15%, (2) foot topographic contours need not be shown on the site plan, unless requested);*
- Show a delineation of the disturbed area for the proposed project on the site plan. The disturbed area should include any and all disturbance during construction, not just the final footprint;
- Initial Fee: $100.00 (Re-Review Fee: $200) Please make check payable to Town of Greenburgh

Owner Information:

Name: Peter Vulpone Street: 63 Donald Drive

City: Hastings on Hudson State: NY Zip Code: 10706

Telephone: 914-478-1130 Alt. Telephone: 914-906-1212 Email: pvulpone@aol.com

Applicant Information:

Name: Peter Vulpone Street: 63 Donald Drive

City: Hastings on Hudson State: NY Zip Code: 10706

Telephone: 914-478-1130 Alt. Telephone: 914-906-1212 Email: pvulpone@aol.com

Subject Property:

Name, address, or other identification of site: 63 Donald Drive

Situated on the North side of Donald Drive (Street) ___ feet from the intersection of : (Street)

Section: 8.610 Block: 422 Lot(s): 11 Total Site area (sq ft): 20378.77

Proposed Action:

1)Type of Approval(s) Sought: Retaining Walls

2) Description of Proposed Action: Level sloped site with retaining walls

3) Are there any rights-of-way, easements, restrictive covenants or conditions of approval which encumber the property? If so, please indicate the nature of these restrictions and supply three (3) copies of the legal instrument (i.e. deed, covenant, conservation easement, approval letter, etc.) which created this restriction.

NOTE: *The completion of this Slope Clearance Form does not confer any rights, privileges, licenses, permits or other entitlement upon the applicant and does not relieve the applicant from compliance with all other applicable laws, rules and regulations of the Town of Greenburgh.*

4) Estimated Quantity of Earthwork: Excavation: 59.73 yds^3 Imported Fill: 371.7 yds^3

5) Slope Categories for Lot Area: Total Lot Area: 20377.5 (sq. ft.)

Slope Category: 0%-15% 17375.5 sq. ft. 15%-25% 590 sq. ft. 25%-35% 1155 sq. ft. 35%+ 1257 sq. ft.

6) Slope Categories for Disturbed Area: Total Disturbed Area: 4475 (sq. ft)

Slope Category: 0%-15% 2756 sq. ft. 15%-25% 510 sq. ft. 25%-35% 826 sq. ft. 35%+ 383 sq. ft.

7) Buildable Area: 18136 sq. ft. Wetland/Watercourse Area: _____ sq. ft.

Buildable Area: To calculate buildable area, the lot area (indicated in section **5**, above) shall be reduced by the sum of the following four slope and wetland area components, as defined in Zoning Code § 285-39E - Lot and bulk requirements: Areas of steep (15%-25%) slopes x 0.20; Areas of very steep (25%-35%) slopes x 0.50; Areas of excessively steep (35%+) slopes x 0.75; Areas of wetlands and watercourses x 0.75.

8) Professional of Record: (P.E., L.S., or R.A.)

Name: Jonathan Bashan Street: 7 Burlington Place

City: Fair Lawn State: New Jersey Zip Code: _____

Telephone: 201-796-0003 Alt. Telephone: 201-921-9056 Fax: _____

Email: jbashan@bnjeng.com License Number: 100227 License Type: PE

STATE OF NEW YORK
JONATHAN BASHAN
LICENSED PROFESSIONAL ENGINEER
100227

Jonathan Bashan

Professional's Signature

6/16/2022

Date

Town of Greenburgh - Engineering Department
Steep Slope Clearance Form Review

Clearance Form # 4725

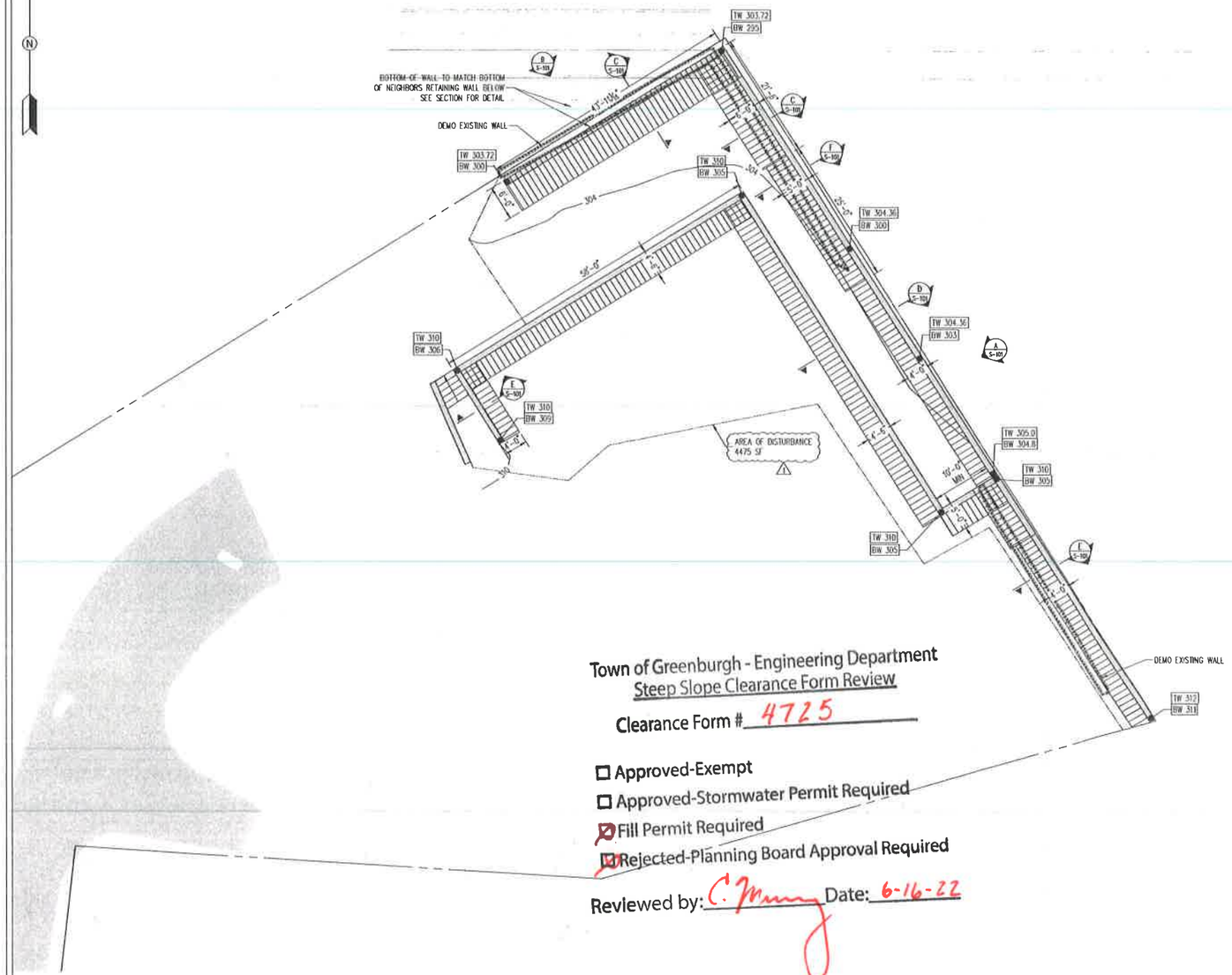
- ☐ Approved-Exempt
- ☐ Approved-Stormwater Permit Required
- ☑ Fill Permit Required
- ☑ Rejected-Planning Board Approval Required

Reviewed by: C. Murray Date: 6-16-22

For Use By The Bureau of Engineering

Signature of Applicant	Print Applicant's Name	Date
Signature of Owner	Print Owner's Name	Date

NOTE: *The completion of this Slope Clearance Form does not confer any rights, privileges, licenses, permits or other entitlement upon the applicant and does not relieve the applicant from compliance with all other applicable laws, rules and regulations of the Town of Greenburgh.*



Town of Greenburgh - Engineering Department
Steep Slope Clearance Form Review

Clearance Form # 4725

☐ Approved-Exempt
☐ Approved-Stormwater Permit Required
☒ Fill Permit Required
☒ Rejected-Planning Board Approval Required

Reviewed by: C. Murray Date: 6-16-22

SITE PLAN
Scale: 1"=10'

NOTE: SITE PLAN INFORMATION IS BASED ON BOUNDARY & TOPOGRAPHY SURVEY BY TC MERRITTS LAND SURVEYORS, DATED 12/21/2021 AND FIELD MEASUREMENTS BY BNJ ENGINEERING.

GENERAL NOTES

1. BUILDING CODE:
THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2018 BUILDING CODE OF NEW YORK STATE, BASED UPON THE INTERNATIONAL BUILDING CODE 2018 (IBC). ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THIS CODE, ITS LATEST ADOPTED AMENDMENTS AND LOCAL REQUIREMENTS.

2. SUBMITTALS
   A. THE FOLLOWING ITEMS REQUIRE SUBMITTAL OF SHOP AND ERECTION DRAWINGS, FOR REVIEW AND APPROVAL:
      a. SHOP DRAWINGS OR SPECIFICATIONS FOR THE MODULAR BLOCK RETAINING WALL PRODUCTS.
   B. THE FOLLOWING ITEMS REQUIRE SUBMITTAL OF SHOP AND ERECTION DRAWINGS AND STRUCTURAL CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK FOR REVIEW AND APPROVAL:
      a. EXCAVATION SUPPORT, SHEETING, OR BENCHING WHERE SOILS REQUIRE SUCH BY VIRTUE OF OSHA REQUIREMENTS (ALL EXCAVATIONS GREATER THAN 5' REQUIRE SPECIFIC TRENCHING CONSIDERATIONS) OR SOIL CONDITIONS

3. INSPECTION AND SPECIAL INSPECTIONS: CONTRACTOR TO COORDINATE ALL REQUIRED INSPECTIONS WITH MUNICIPALITY. AS PER IBC CHAPTER 17, THE FOLLOWING ITEMS ARE SUBJECT TO SPECIAL INSPECTION BY AN INDEPENDENT INSPECTION AND/OR TESTING AGENCY HIRED BY THE OWNER AND APPROVED BY THE ENGINEER AND BUILDING OFFICIAL.
OWNER/SPECIAL INSPECTOR SHALL PROVIDE SPECIAL INSPECTION REPORTS WITHIN 5 DAYS OF PERFORMING THE INSPECTION AND IMMEDIATELY NOTIFY THE ENGINEER.
   A. SOILS (1705.6)

5. CONTRACTOR TO COORDINATE REQUIRED INSPECTION WITH TOWNSHIP CONSTRUCTION DEPARTMENT.

4. DESIGN LOADS AND VALUES:
   A. GRAVITY LOADS (PSF):

UNIT WEIGHT OF SOIL	=	120 PCF
SOIL ALLOWABLE BEARING PRESSURE	=	2000 PSF
SOIL FRICTION ANGLE (ø)	=	28°
SURCHARGE YARD AND PATIO	=	100 PSF

5. INFILL SOIL PROPERTIES:

SOIL UNIT OF INFILL TO BE (Y)= 110 PCF MAX.
SOIL FRICTION ANGLE OF INFILL SOIL (ø) = 30° MIN.

6. THE CONTRACTOR SHALL VERIFY RETAINING WALL LOCATION WITH RESPECT TO PROPERTY LINE, AND VERIFY ALL EXISTING CONDITIONS BEFORE EXCAVATION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

7. THE DESIGN IS BASED ON INCOMPLETE INFORMATION ABOUT THE EXISTING SOIL CONDITIONS. AS THE WORK PROGRESSES, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIELD INFORMATION ABOUT THE EXISTING SOILS, BEDROCK OR GROUNDWATER CONDITIONS.

8. IN CASE OF CONTRADICTION BETWEEN THE DRAWINGS, THE SPECIFICATIONS, AND THE CODES, OR IF ANY CHANGE IS REQUIRED, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY. NO CHANGE SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

9. THE STABILITY OF STRUCTURE, EXCAVATED SLOPE, ADJACENT STRUCTURES IMPACTED BY THE WORK, AND SITE SAFETY ARE THE CONTRACTOR'S RESPONSIBILITY UNTIL CONSTRUCTION IS COMPLETE AND THE STRUCTURE HAS REACHED ITS FINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY BRACING, ERECTION PIECES, CONSTRUCTION SUPPORTS, FALL PROTECTION, DEBRIS CATCHES, TEMPORARY SHORING, SOE, ETC. AS REQUIRED TO SAFEGUARD THE SITE THROUGHOUT THE COURSE OF CONSTRUCTION.

10. THE CONTRACTOR SHALL VERIFY THAT ANY CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE.

11. DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION, THE GENERAL CONTRACTOR SHALL MAINTAIN STRUCTURAL INTEGRITY OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN, WITH INTERIOR OR EXTERIOR SHORING, BRACING OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES.

12. PROPER SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

13. CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS CAREFULLY, VISIT THE SITE, AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO SUBMITTING THEIR PROPOSAL. FAILURE TO VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE SUCCESSFUL BIDDER FROM FURNISHING ALL MATERIALS OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK, IN ACCORDANCE WITH THE DRAWINGS AND WITHOUT ADDITIONAL COST TO THE OWNER.

14. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO ALLOW PROPER PERFORMANCE OF HIS WORK. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING STRUCTURE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED. SUCH DISCREPANCIES BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS SHALL NOT BE THE REASON FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK AND THE WORK SHALL BE PERFORMED PER INTENT OF THE CONTRACT DOCUMENTS AT NO EXTRA COST TO THE OWNER.

15. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE APPROXIMATE AND SHALL NOT BE USED FOR ORDERING AND/OR FABRICATING MATERIALS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATING MATERIALS.

RETAINING WALL NOTES

1. GENERAL
   A. WALL UNITS SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (20.7 MPA) IN ACCORDANCE WITH ASTM C1372. THE CONCRETE UNITS SHALL HAVE ADEQUATE FREEZE-THAW PROTECTION WITH AN AVERAGE ABSORPTION RATE IN ACCORDANCE WITH ASTM C1372 OR AN AVERAGE ABSORPTION RATE OF 7.5 LB/FT^3 (120 KG/M^3) FOR NORTHERN CLIMATES AND 10 LB/FT3 (160 KG/M^3) FOR SOUTHERN CLIMATES.

   B. WALL ROCK MATERIAL MUST BE WELL-GRADED COMPACTABLE AGGREGATE, 0.25 IN. TO 1.5 IN., (6 MM – 38 MM) WITH NO MORE THAN 10% PASSING THE #200 SIEVE (ASTM D422)

   C. GEOGRID SHALL BE STRATA SG 200 OR APPROVED EQUAL WITH A MINIMUM LONG TERM DESIGN STRENGTH, LTDS, OF 1919 PLF.

   D. LL FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS (MAXIMUM) COMPACTED WITH VIBRATORY ROLLERS. FILL MATERIAL SHALL BE TESTED BY MODIFIED PROCTOR DENSITY METHOD (ASTM D1557) AND MUST QUALIFY AS SELECT, WITH LESS THAN 10% PASSING THROUGH THE NO. 200 SIEVE. SOIL SHALL BE PLACED WITH MOISTURE CONTENT AND ENERGY TO PROVIDE 95% OF MAXIMUM DRY DENSITY. IN PLACE DENSITY TESTS SHALL BE TAKEN FOR EACH 10,000 S.F. IN EACH LIFT. FOR ACCEPTANCE OF SOIL, AVERAGE OF DENSITY TESTS MUST EXCEED THE SPECIFIED COMPACTION. NO TESTS SHALL BE PERMITTED TO FALL BELOW 95% COMPACTION.

   E. FOLLOW THE INSTALLATION INSTRUCTIONS SUPPLIED WITH THE RETAINING WALL SYSTEM. INCLUDING FOUNDATION PREPARATION, BLOCK ALIGNMENT, CORE FILLING, DRAINAGE ROCK PLACEMENT, BACKFILL PLACEMENT, AND COMPACTION.

   F. BACKFILL MUST BE COMPACTED AND LEVEL WITH THE TOP OF THE RETAINING BLOCK COURSE PRIOR TO INSTALLATION OF GEOGRIDS. THE GEOGRID SHOULD START NEAR THE FACE OF THE BLOCK AND REMAIN IN ONE CONTINUOUS PIECE TO THE BACK OF THE REINFORCED SOIL MASS (NO SPLICING) BUTT TOGETHER AT EDGES –DO NOT OVERLAP GEOGRID.

   G. PLACE THE NEXT COURSE OF BLOCK ON TOP OF THE GEOGRID.

   H. ELIMINATE ANY FOLDS OR LOOSENESS IN THE GEOGRID BY PULLING TIGHT AND STAKING AT THE BACK.

   I. BACKFILL AND COMPACT THE SOIL TO 95% STANDARD PROCTOR. ALWAYS BACKFILL AND COMPACT ONE COURSE OF BLOCK AT A TIME. KEEP AN ADEQUATE CUSHION OF SOIL BETWEEN THE GEOGRID AND EQUIPMENT.

SOIL MOVEMENT – APPROXIMATE VOLUME CALCULATIONS:

CUT = 59.73 CY
FILL = 430 CY
NET CUT-FILL = 371.7 CY
SOIL MOVEMENT = 489.73 CY

Dig Safely. New York Call 811 before you dig

SITE LOCATION
Scale: 1"=100'

NO	DATE	REVISION
1	05/03/22	REVISION-1

BNJ Engineering P.C.
Innovative Consulting Engineers
7 BURLINGTON PLACE,
FAIR LAWN, NJ 07410
201-796-0003

PROJECT
63 DONALD DR
HASTING ON HUDSON, NEW YORK

SHEET TITLE
NOTES AND SITE PLAN

PROJECT NO.	210127
SCALE	02/25/2022
DATE	210127
CHECKED BY	JB
DRAWING NO.	S-100

1 OF 4 SHTS

EXISTING SITE PLAN

Scale: 1"=20'

SITE PLAN LEGENDS

PROPERTY LINE

EXISTING CONTOURS

304 PROPOSED CONTOURS

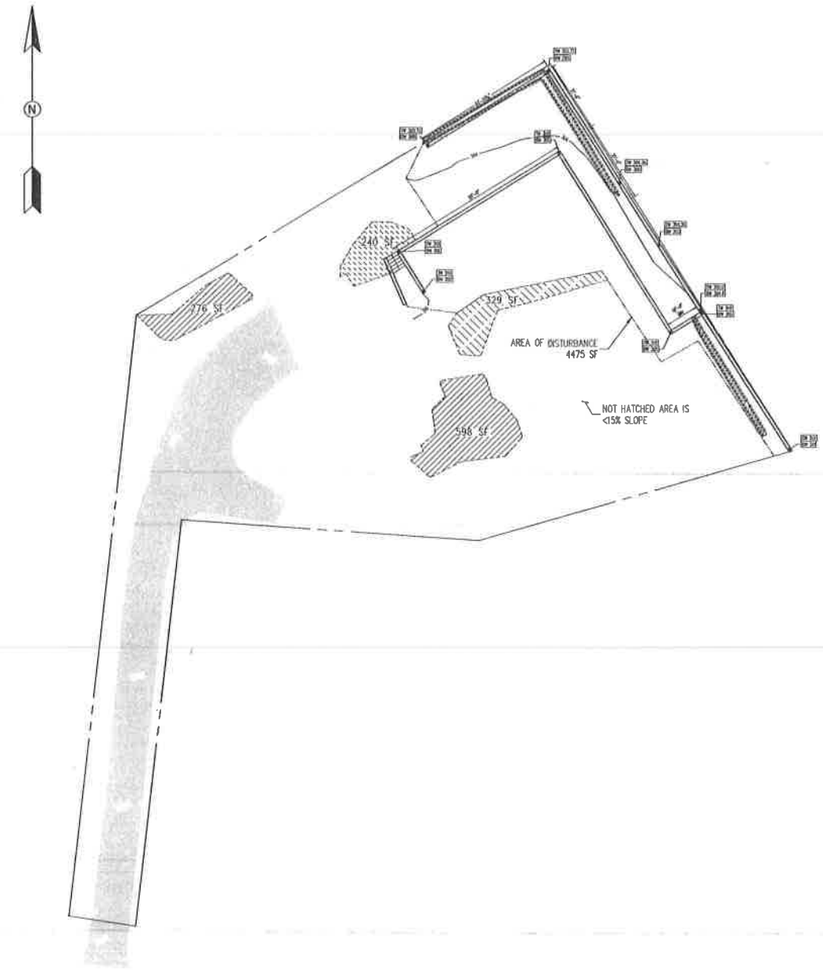
PROPOSED AREA TO BE DISTURBED

EXISTING 15–25% SLOPE AREA

EXISTING 25–35: SLOPE AREA

EXISTING >35% SLOPE AREA

NOTE: SITE PLAN INFORMATION IS BASED ON BOUNDARY & TOPOGRAPHY SURVEY BY TC MERRITTS LAND SURVEYORS, DATED 12/21/2021 AND FIELD MEASUREMENTS BY BNJ ENGINEERING.



PROPOSED SITE PLAN

Scale: 1"=20'

SHEET ADDED

NO.	DATE	REVISION
1	05/02/22	REVISION-1

BNJ Engineering P.C.
Innovative Consulting Engineers
7 BURLINGTON PLACE,
FAIR LAWN, NJ 07410
201-795-0003

PROJECT

63 DONALD DR

HASTING ON HUDSON, NEW YORK

SHEET TITLE

STEEP SLOPE DISTURBANCE PLAN

PROJECT NO.	210127
SCALE	02/25/2022
DATE	210127
CHECKED BY	JB
DRAWING NO.	S-103
	4 OF 4 SHTS