Paul J. Petretti
Civil Engineer & Land Surveyor
Certified Wetland Delineator
Certified Floodplain Manager

CIVIL ENGINEERING - LAND SURVEYING & MAPPING - SITE DESIGN & PLANNING
ENVIRONMENTAL & GEOTECHNICAL - DRAINAGE & STORMWATER QUALITY
EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS
FLOODPLAIN MANAGEMENT & HYDROLOGY

February 12, 2018

PLANNING BOARD
Village of Hastings-on-Hudson
7 Maple Avenue
Hastings-on-Hudson, New York 10707

Attention: Kathleen Sullivan, Chairperson and Planning Board

Re: Application of Hastings Landing Homeowners, Corp., 1-23 New Broadway, Hastings-on-Hudson, New York

Dear Mrs. Sullivan and Planning Board:

We are submitting an Application for the Planning Review/Action for Hastings Landing Homeowners, Corp. to make site improvements at two locations on the grounds of the facility; one location is at an existing 180 degree turn in the access road and the other location at a set of garages.

The purpose is to improve the access road turning radius and the other to give more backing room from a parking area across from a set of garages. We are not adding any additional parking spaces. Retaining walls varying in height from 1.0 to 4.0 feet in the radius and 4.0 to 4.5 feet in the parking area are required. We will attempt to match the texture and color of the existing retaining walls.

We are submitting with this application four (4) plans showing the location of the proposed actions and construction plans showing layout and details for the walls to be constructed. We are requesting a waiver for View Preservation.

We appreciate the opportunity to appear before the board; please place this matter on the agenda of the Planning Board.

Very truly yours,

Paul J. Petretti, P.E., L.S., CFM

cc: Server F: \ My Documents\VOH Projects\Hastings Landing Correspondence.doc
Mr. Brian Salley, VP, Director of Management, Garthchester Realty

30 GOULD AVENUE, DOBBS FERRY, NY 10522
914-674-9827 - Fax 693-0124 - Cell 672-1518
E-Mail PJPCELS@aol.com

VILLAGE OF HASTINGS-ON-HUDSON

Application for the Planning Board Review/Action

for Site Plan, Subdivision

Steep Slopes and/or View Preservation

Case number:.....Date of application:.....

Planning Board action requested for: (Check all that apply)

- ☐ Site Plan (§295-104)
- ☐ Subdivision (Article XIII)
- ☐ Steep Slopes (§295-147)
- ☐ View Preservation (§295-82)

Property owner: Hastings Landing Homeowners, Corp.

Property address: New Broadway, 1- 23 Hastings Landing

Name all streets on which the property is located: East side of New Broadway

SBL: 004.100-95-28 Zoning District: Cluster Zone Overlay

Applicant: Hastings Landing Homeowners, Corp.

Standing of applicant if not owner: Joan Gordon, President of the Magagment Board

Address: Use Garthchester Realty, 209 Garthchester Road, Scarsdale, New York 10583

Daytime phone number: 1-914-725-3600 Ext. 112 Fax number: 914-725-6453

E-mail address: Brian Scally, Brian@garthchesterrealty.com (Mangement Agency)

Total Area of subject Land/property:.....

Is the subject Property in View Preservation District ? ☑ yes ☐ No

Does Property currently contain or will contain Steep Slopes? ☑ yes ☐ No

Is the subject property within 500 ft. of any other jurisdiction? ☐ yes ☑ No

Will the project affect (remove or Injure) any designated trees? ☑ yes ☐ No

Please provide brief description of proposed work:

This is an application to construct two retaining wall systems; one at a radius of the upper access road to improve, widen the turn and the other at the location of an existing parking area to allow for more backing space to an garage.

VILLAGE OF HASTINGS-ON-HUDSON

Application for the Planning Board Review/Action
for Site Plan, Subdivision
Steep Slopes and/or View Preservation

STATE OF NEW YORK
COUNTY OF WESTCHESTER ss.:

The undersigned applicant states that he/she has read all applicable code sections of the Village of Hastings-on-Hudson and is herewith submitting this application complete with all such documentation and information as is necessary and required under the code and is herby requesting the aforementioned action/approval/s by the Planning board of the Village of Hastings-on-Hudson.

Paul J. Petretti, P.E.,LS., CFM
Signature of the Applicant

Sworn to before me this 12 day
of February, 2018

Notary Public

NICOLE MAGAGNIN
Notary Public – State of New York
NO. 01MA6360891
Qualified in Westchester County
My Commission Expires Jun 26, 2021

STATE OF NEW YORK
COUNTY OF WESTCHESTER

Name : Joan Gordon, President of the Board of Management, being duly sworn, deposes and says that he/she resides at Hastings Landing in the Village of Hastings-on-Hudson in the County of Westchester, in the State of New York, that he/she is the owner of all that certain lot, parcel of land, in fee, lying and being in the Village of Hastings-on-Hudson aforesaid and known and designated as Sheet 004.10 Block 95 and Lot 28 of the tax map, and that he/she hereby authorized Paul J. Petretti, P.E.,L.S., CFM to make the annexed application in his/her behalf and that the statement of fact contained in said application are true.

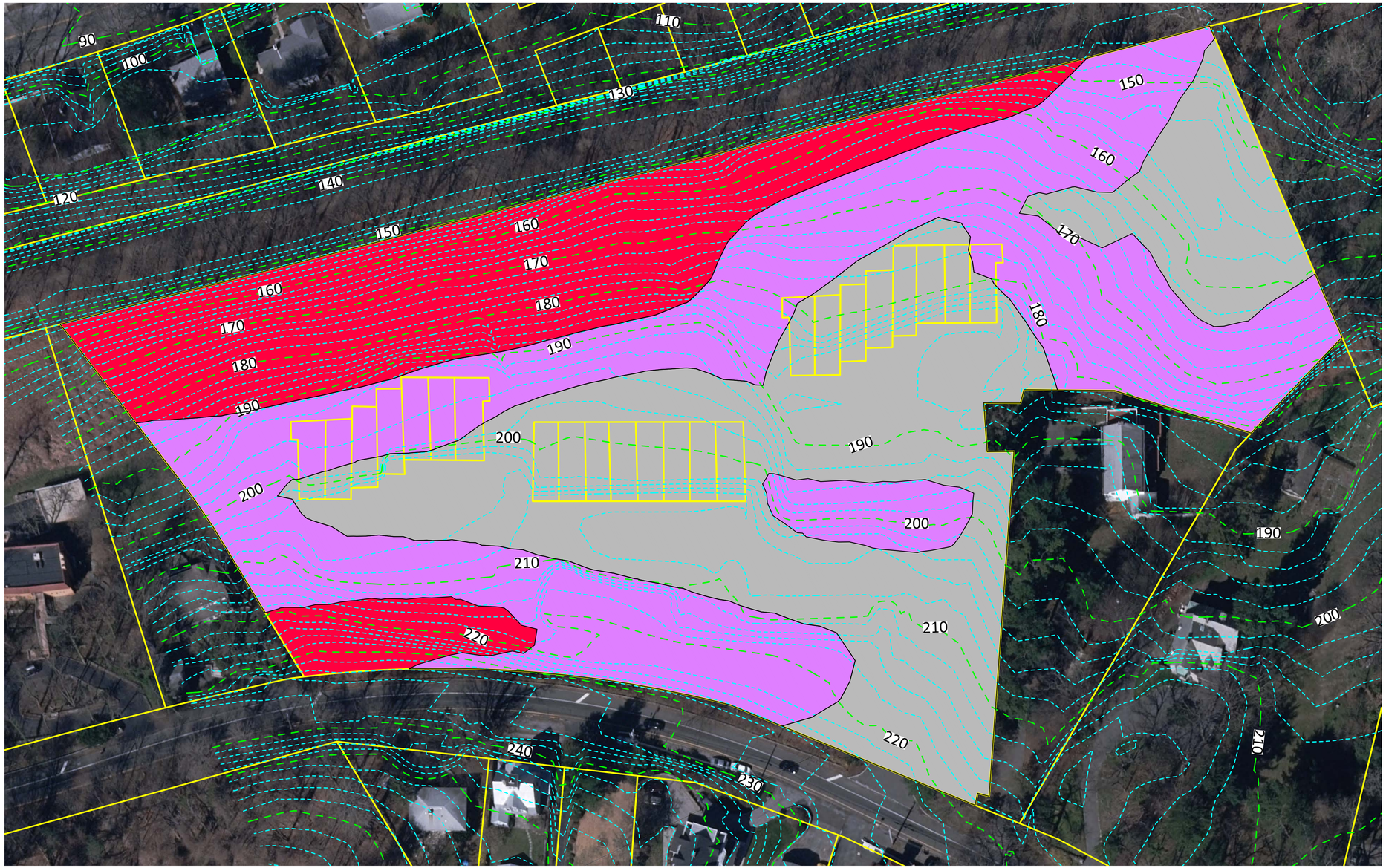
Signature of the Owner

Sworn to before me this 13 day
of February, 2018

Notary Public

MICHELE J LIDDY
Notary Public, State of New York
No. 01LI6344406
Qualified in Westchester County
Commission Expires 07/05/2020

Submit a flash drive and a total of three (3) sets (residential) or thirteen (13) sets, 11 copies and 2 original (commercial), of this application, with all necessary documents, plans, surveys, photographs, applicable checklists and any other data that you deem critical to make your case before the Planning Board.



SITE MAP LOCATION
N.T.S.

Slopes Table – Total Site

Number	Minimum Slope	Maximum Slope	Area (sq. ft.)	Percent	Proposed Disturbed Area (sq. ft.)	Percent Disturbed Area Allowed	Proposed Percent Disturbed	Disturbed Area Allowed (sq. ft.)	Percent of Allowable Steep Slopes Disturbed	Proposed Disturbed Area minis Disturbed Area Allowed (sq.ft.)
	0%	15%	115,765	40.0%	1,081	100%	0.93%	115,765	0.93%	0.93
	15%	25%	106,896	37.0%	864	35%	0.81%	37,414	2.31%	0
	25%	100%	66,577	23.0%	0	25%	0.0%	16,644	0.00%	0
Total			289,238	100%	1,945		1.74%	169,823	3.24%	0.93

OWNER/APPLICANT FOR
HASTINGS LANDING
BRIAN SCALLY/ VP. DIRESCTOR OF MANAGEMENT
GARTHCHESTER REALITY
209 GARTH ROAD
SCARSDALE, NEW YORK 10583
PHONE No. 1-914-725 3600 EXT. 112

NOTE:

1. TAX PARCEL AND STEEP SLOPES DATA OBTAINED FROM THE WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS WEBSITE: https://giswww.westchestergov.com/gismap/

ENCROACHMENTS BELOW GRADE AND OR SUB-GRADE FEATURES, IF ANY, NOT LOCATED OR SHOWN HEREON.

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

STEEP SLOPE ANALYSIS PLAN

STATE OF NEW YORK · PAUL J. PETRETTI · 49371 · LICENSED PROFESSIONAL ENGINEER

NYS L.S. LIC. NO. 49371

STATE OF NEW YORK · PAUL J. PETRETTI · 055191 · LICENSED PROFESSIONAL ENGINEER

N. Y. S. P. E. No. 55191

REVISIONS

NO.	DATE	DESCRIPTION

ORIGINAL: DECEMBER 27, 2018

RETAINING WALL DESIGN
PREPARED FOR
HASTINGS LANDING
VILLAGE OF HASTINGS-ON HUDSON
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

1 / 1

PAUL J. PETRETTI
CIVIL ENGINEER & LAND SURVEYOR
30 GOULD AVENUE, DOBBS FERRY, NEW YORK 10522.

CIVIL ENGINEERING – LAND SURVEYING & MAPPING – SITE DESIGN & PLANNING
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STATE OF NEW YORK · PAUL J. PETRETTI · 49371 · LICENSED PROFESSIONAL SURVEYOR

NYS L.S. LIC. NO. 49371

STATE OF NEW YORK · PAUL J. PETRETTI · 55191 · LICENSED PROFESSIONAL ENGINEER

N. Y. S. P. E. No. 55191

REVISIONS

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PREPARED FOR

HASTINGS LANDING

VILLAGE OF HASTINGS–ON HUDSON
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

1/4

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2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES WHETHER UNDERGROUND OR OVERHEAD AND SHALL MAINTAIN IN PROPER WORKING AND OPERATING CONDITION ALL UTILITIES. IF TEMPORARY UTILITIES CONNECTIONS SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED, AND IT SHALL BE HIS RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THE PROJECT.

3. THE CONTRACTOR SHALL CONTACT ALL OF THE APPROPRIATE PARTIES WITH JURISDICTION OVER THE UTILITIES ENTERING ON OR NEAR THE PROJECT AREA PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES,

4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE STATE OF NEW YORK DEPARTMENT OF LABOR, BOARD OF STANDARDS AND APPEALS INDUSTRIAL CODE RULE 53," CONSTRUCTION, EXCAVATION AND DEMOLITION OPERATIONS AT OR NEAR UNDERGROUND FACILITIES" EFFECTIVE APRIL 1, 1975. THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL APPLICABLE REQUIREMENT OF INDUSTRIAL CODE RULE 53. INFORMATION IS AVAILABLE AT 1-800-962-7962.

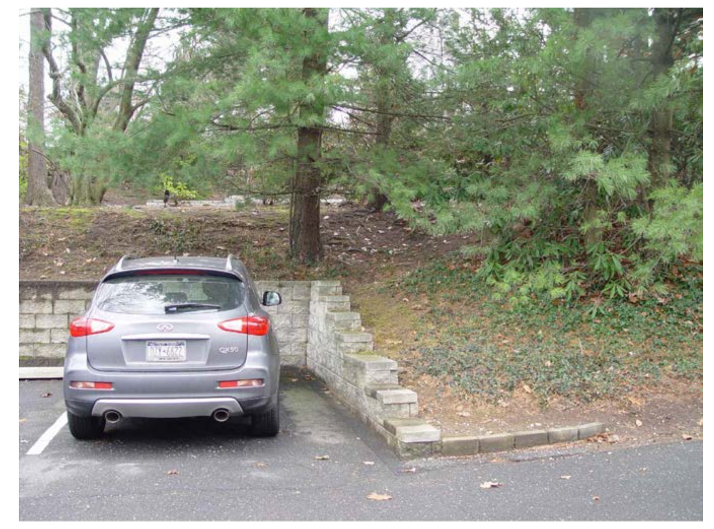
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE VILLAGE OF HASTING ON HUDSON, THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) OR ANY OTHER AGENCY WITH JURISDICTION OVER THE PROJECT.

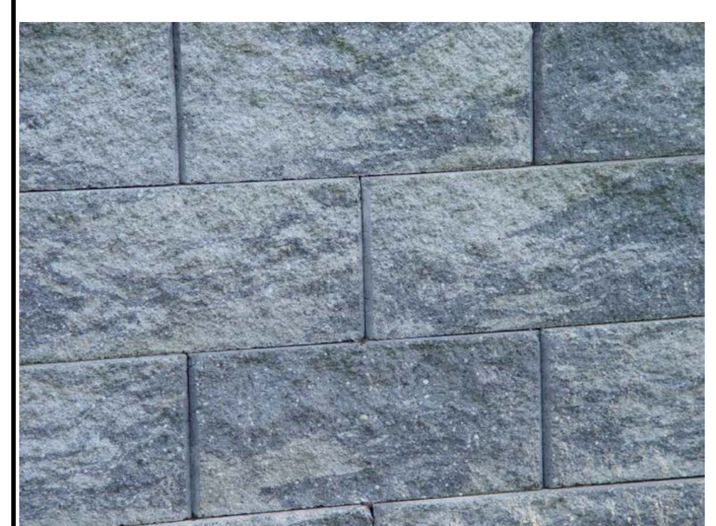
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ALL NECESSARY INSPECTIONS REQUIRED BY THE VILLAGE OF HASTING ON HUDSON OR ANY OTHER AGENCY WITH JURISDICTION OVER THIS PROJECT.

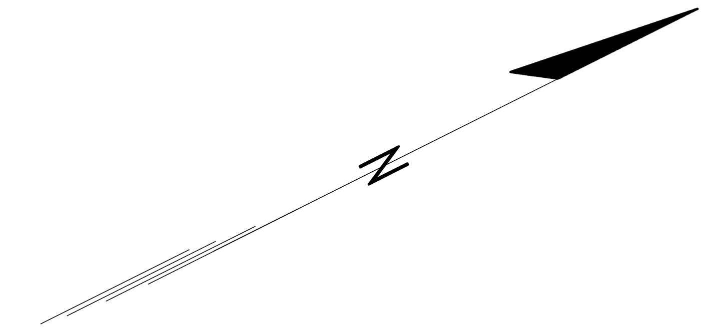
7. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OR REPLACEMENT OF ALL (OFF-SITE) NATURAL AND MAN MADE FEATURES DISTURBED BY (HIS) CONSTRUCTION ACTIVITIES WHETHER SHOWN ON THE PROPOSED PLAN OR ENCOUNTERED IN THE FIELD. IT IS THE INTENTION OF THE PROPOSED PLAN TO SHOW ONLY MAJOR FEATURES TO BE PROTECTED, RESTORED OR REPLACED: HOWEVER, OTHER PHYSICAL FEATURES MAY BE ENCOUNTERED WHICH WILL REQUIRE RESTORATION OR REPLACEMENT WHETHER OR NOT THEY ARE SHOWN ON THE PLAN.

8. THE CONTRACTOR SHALL VERIFY ALL THE FIELD CONDITIONS AND DIMENSIONS AND SHALL BE RESPONSIBLE FOR FIELD FITTING AND QUANTITY OF WORK. NO ALLOWANCES SHALL BE MADE ON THE BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLECT ON HIS PART.

9. I HEREBY ACKNOWLEDGE THAT SUBSURFACE INVESTIGATIONS AND BORINGS HAVE NOT BEEN PERFORMED. SUBSURFACE INFORMATION IS NOT AVAILABLE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SUBSURFACE CONDITIONS AND SATISFYING ALL CONTRACTUAL CONDITIONS WITH RESPECT TO UNFORESEEN CONDITIONS PRIOR TO ENTERING INTO AGREEMENT TO PERFORM THE WORK SHOWN HEREON.





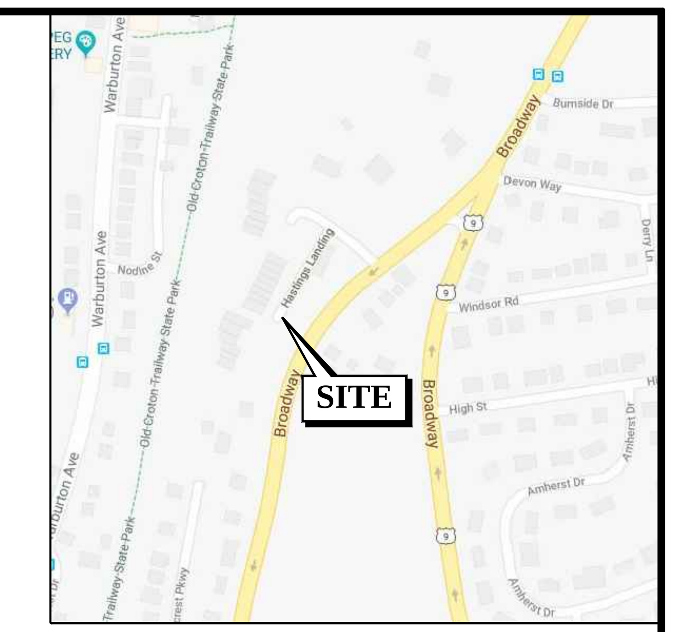


GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

NAD83-NAVD88



SITE MAP LOCATION
N.T.S.

RETAINING WALL CERTIFICATION OF CONSTRUCTION COMPLIANCE AND SUBSTANTIAL COMPLETION

THE VILLAGE OF DOBBS FERRY BUILDING DEPARTMENT AND THE OWNER WILL REQUIRE CERTIFICATION OF CONSTRUCTION COMPLIANCE AND SUBSTANTIAL COMPLETION FOR THE RETAINING WALLS AS SHOWN ON THE APPROVED PLANS BY THE ENGINEER OF RECORD.

THE ENGINEER OF RECORD, TO MAKE THIS CERTIFICATION, MUST APPROVE, INSPECT AND MONITOR THE MATERIALS TO BE PLACED AND WORKMANSHIP AS THE WALL IS CONSTRUCTED.

MATERIAL CERTIFICATION WILL BE REQUIRED FOR REINFORCED FILL MATERIAL AND GEO-GRIDS TO INCLUDE PRE-CONSTRUCTION QUALIFICATION OF THE MATERIALS TO INSURE THAT MATERIAL SPECIFICATIONS ARE MET. REINFORCED FILL FOR THE WALL SYSTEM WILL BE PROVIDED TO THE SITE FROM A PRE-SELECTED, PRE-TESTED SOLE SOURCE.

BACKFILL MATERIAL SHALL BE CLEAN FREE DRAINING SUITABLE ON-SITE SOIL OR IMPORTED SAND AND GRAVEL CONTAINING LESS THAN TWENTY PERCENT (20%) BY WEIGHT PASSING THE NO. 200 SIEVE. THE BACKFILL SHALL BE PLACED IN SIX INCH?(6 TO TWELVE INCH (12?) LAYERS AND COMPACTED TO AT LEAST NINETY-FIVE PERCENT (95%) OF ITS MAXIMUM MODIFIED DRY DENSITY (ASTM D1557). THE USE OF ON-SITE SOILS FOR BACKFILL SHALL BE APPROVED BY THE ENGINEER OF RECORD ON THE BASIS ON LABORATORY TESTS FOR GRADATION AND A COMPACTION TEST MADE BY A CERTIFIED TESTING FACILITY CERTIFYING THE SAME TO THE ENGINEER OF RECORD.

BACKFILL FOR THE RETAINING WALLS SHALL CONFORM TO THE SPECIFIED BACKFILL SHOWN ON THE PLAN AND ADEQUATE TESTING TO MEET THE BACKFILL SPECIFIED SHALL BE PROVIDED, INCLUDING BUT NOT LIMITED TO SIEVE ANALYSIS AND COMPACTION LAB TESTING TO DETERMINE BACKFILL GRADATION AND MAXIMUM DENSITY AND IN-PLACE COMPACTION TESTING TO INSURE MAXIMUM IN-PLACE DENSITY.

THE ELEVATION OF THE LEVELING PAD TO BE APPROVED BY THE ENGINEER OF RECORD.

GEO-GRID ELEVATIONS SHOWN HEREON ARE FOR BIDDING PURPOSES AND MAY REVISED IN THE FIELD BY THE ENGINEER OF RECORD TO MEET FIELD CONDITIONS.

INSPECTION OF PLACEMENT OF THE WALL COMPONENTS, THE LEVELING PAD, DRAINAGE COMPONENTS AND ALL GEO-GRID PLACEMENT LIFTS.

THE CONTRACTOR IS REQUIRED TO CONSTANTLY AND CONTINUOUSLY ADVISE THE ENGINEER OF RECORD OF HIS OPERATIONS TO INSURE THAT ALL INSPECTIONS ARE MADE FOR THE PLACEMENT OF THE ENTIRE WALL SYSTEM. FAILURE TO NOTIFY THE ENGINEER OF RECORD OF ANY ACTION RELATED TO THE CONSTRUCTION OF THE WALL SYSTEM WILL ELIMINATE THE ABILITY OF THE ENGINEER OF RECORD TO PROVIDE AGENCIES WITH JURISDICTION OVER THE BUILDING PERMIT FOR THIS ACTION AND PROVIDE THE OWNER A CERTIFICATION OF CONSTRUCTION COMPLIANCE.

24-HOUR NOTICE TO THE ENGINEER OF RECORD FOR ALL ACTIONS RELATED TO THE CONSTRUCTION OF THE WALL SYSTEM IS REQUIRED.

SUBSTITUTION OF ANOTHER SEGMENTAL RETAINING WALL / MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM REQUIRES A SIGNED SEALED DESIGN BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DESIGN REVIEW FEES, SUBMISSION OF A REVISED DESIGN TO THE VILLAGE OF ARDSLEY, RE-SUBMISSION TO THE VILLAGE OF ARDSLEY PLANNING BOARD AND DESIGN REVIEW COMMITTEE.

ELEVATIONS, GRADES AND DIMENSIONS SHOWN HEREON FOR THE PROPOSED WALL MAY VARY TO MEET FIELD CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ENGINEER OF RECORD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY CHANGES AND/OR FIELD CONDITIONS THAT WILL IMPACT THE INSTALLATION OF THE RETAINING WALL.

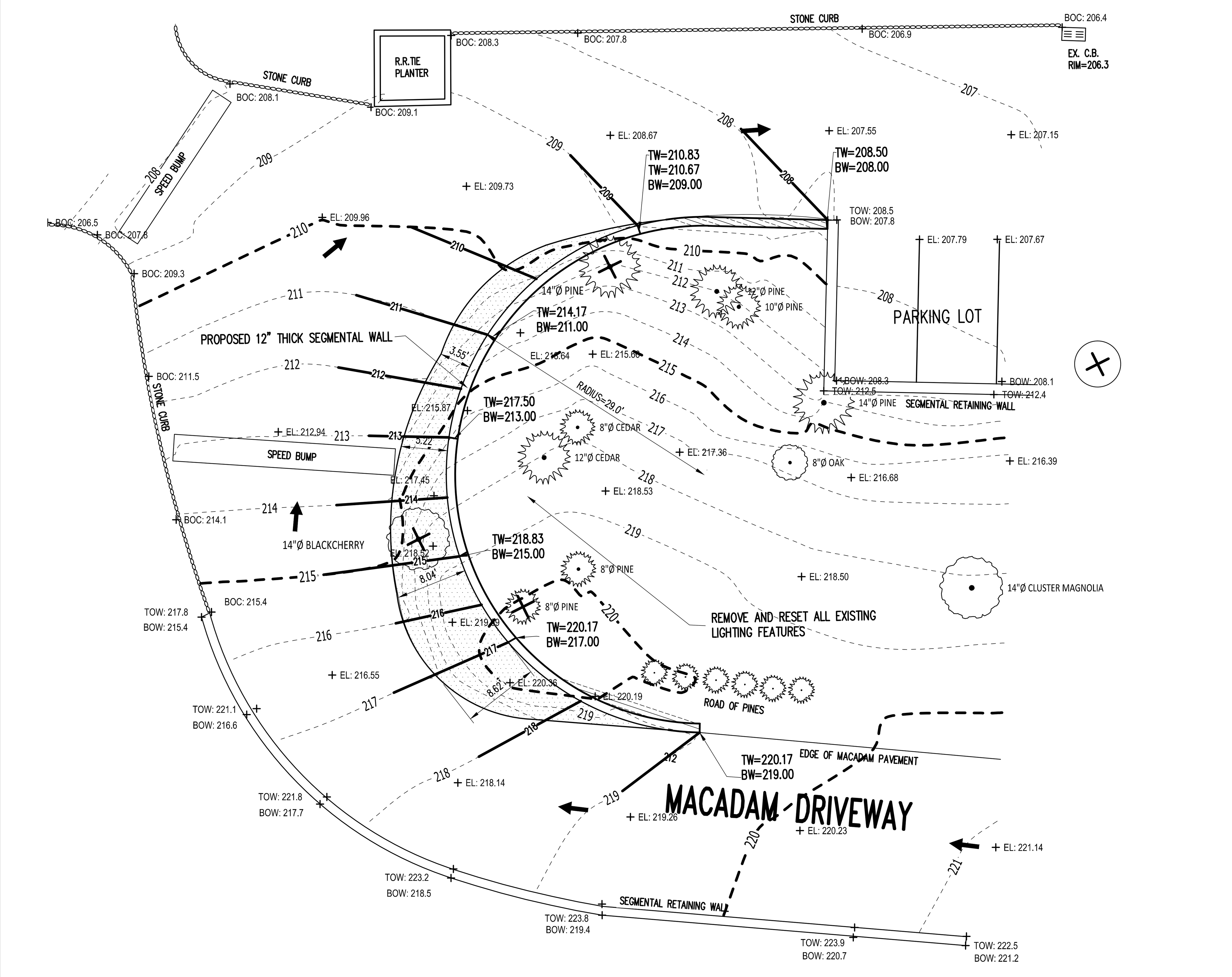
A RAILING OR A FENCE ALONG THE TOP OF THE RETAINING WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.

TEMPORARY FENCING WILL BE REQUIRED TO PREVENT ACCESS TO THE UNDER CONSTRUCTION WORK AREA TO PRECLUDE ACCESS AND IF NECESSARY AT THE TOP OF THE WALL UNDER CONSTRUCTION.

WORK AREA A RAILING OR A FENCE ALONG THE TOP OF THE RETAINING WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.

AT COMPLETION THE APPLICANT'S (OWNER) ENGINEER OR THE ENGINEER OF RECORD SHALL SUBMIT A CERTIFICATE OF CONSTRUCTION COMPLIANCE AND AN AS-BUILT PLAN, PROFILE AND SECTION FOR THE RETAINING WALL WHICH WILL CERTIFY THAT THE WALL WAS INSTALLED IN SUBSTANTIAL ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS OR IN THE ALTERNATE, IF FIELD CONDITIONS DICTATED SUBSTANTIAL CHANGES TO THE ORIGINAL DESIGN, THEN A REVISED PLAN WILL BE SUBMITTED CERTIFYING THAT THE RETAINING WALLS ARE INSTALLED IN SUBSTANTIAL ACCORDANCE WITH THE REVISED PLAN.

TAX ID: 4.100-95-UNITS 12 to 19



LEGEND

219	MINOR CONTOUR
220	MAJOR CONTOUR
220	PROPOSED GRADE
	EXISTING TREE
	EXISTING TREE TO BE REMOVED
EL 209.73	EXISTING SPOT ELEVATION
	PROPOSED SEGMENTAL WALL
	EXISTING CATCH BASIN
TW	TOP OF WALL
BW	BOTTOM OF WALL
TC	TOP OF CURB
BC	BOTTOM OF CURB

NEW RADIUS WALL

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OWNER/APPLICANT FOR
HASTINGS LANDING
BRIAN SCALLY/ VP. DIRESCTOR OF MANAGEMENT
GARTHCHESTER REALITY
209 GARTH ROAD
SCARSDALE, NEW YORK 10583
PHONE No. 1-914-725 3600 EXT. 112

NYS L.S. LIC. NO. 49371

N. Y. S. P. E. No. 55191

REVISIONS		
NO.	DATE	DESCRIPTION

ORIGINAL: DECEMBER 27, 2018

RETAINING WALL DESIGN
PREPARED FOR
HASTINGS LANDING
VILLAGE OF HASTINGS-ON HUDSON
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

2/4

PAUL J. PETRETTI
CIVIL ENGINEER & LAND SURVEYOR
30 GOULD AVENUE, DOBBS FERRY,
NEW YORK 10522.

CIVIL ENGINEERING – LAND SURVEYING & MAPPING – SITE DESIGN & PLANNING
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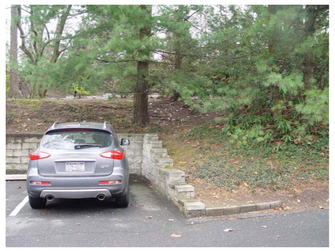
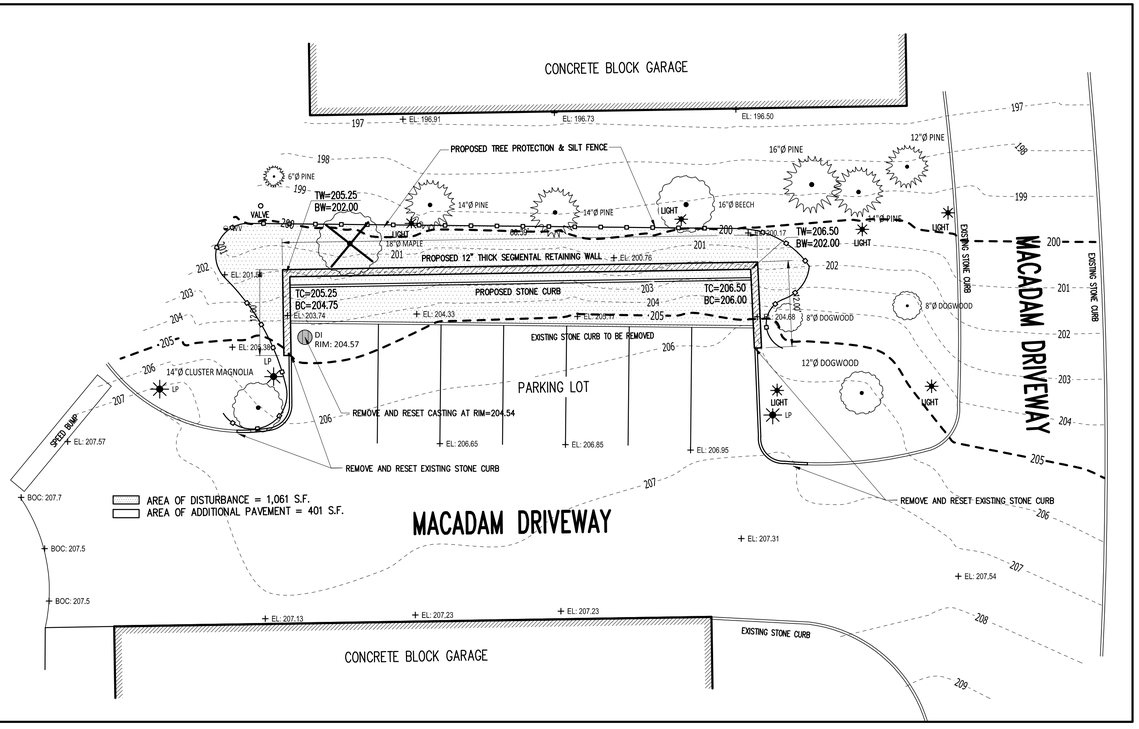
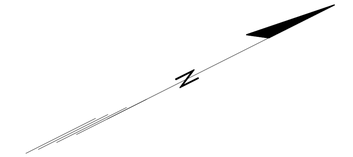




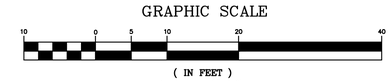
ENCROACHMENTS BELOW GRADE AND OR SUB-GRADE FEATURES, IF ANY, NOT LOCATED OR SHOWN HEREON.

ANY ALTERATION OR ADDITIONS TO THE PLANS AND SPECIFICATIONS SHOWN HEREON IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PER SECTION 7209, SUBDIVISION 2.

OWNER/APPLICANT FOR
HASTINGS LANDING
BRIAN SCALLY/ VP. DIRESCTOR OF MANAGEMENT
GARTHCHESTER REALITY
209 GARTH ROAD
SCARSDALE, NEW YORK 10583
PHONE No. 1-914-725 3600 EXT. 112



GRAPHIC SCALE



(IN FEET)
1 inch = 10 ft.

NAD83-NAVD88

SITE MAP LOCATION
N.T.S.

RETAINING WALL CERTIFICATION OF CONSTRUCTION COMPLIANCE AND SUBSTANTIAL COMPLETION

THE VILLAGE OF DOBBS FERRY BUILDING DEPARTMENT AND THE OWNER WILL REQUIRE CERTIFICATION OF CONSTRUCTION COMPLIANCE AND SUBSTANTIAL COMPLETION FOR THE RETAINING WALLS AS SHOWN ON THE APPROVED PLANS BY THE ENGINEER OF RECORD.

THE ENGINEER OF RECORD, TO MAKE THIS CERTIFICATION, MUST APPROVE, INSPECT AND MONITOR THE MATERIALS TO BE PLACED AND WORKMANSHIP AS THE WALL IS CONSTRUCTED.

MATERIAL CERTIFICATION WILL BE REQUIRED FOR REINFORCED FILL MATERIAL AND GEO-GRIDS TO INCLUDE PRE-CONSTRUCTION QUALIFICATION OF THE MATERIALS TO INSURE THAT MATERIAL SPECIFICATIONS ARE MET. REINFORCED FILL FOR THE WALL SYSTEM WILL BE PROVIDED TO THE SITE FROM A PRE-SELECTED, PRE-TESTED SOLE SOURCE.

BACKFILL MATERIAL SHALL BE CLEAN FREE DRAINING SUITABLE ON-SITE SOIL OR IMPORTED SAND AND GRAVEL CONTAINING LESS THAN TWENTY PERCENT (20%) BY WEIGHT PASSING THE NO. 200 SIEVE. THE BACKFILL SHALL BE PLACED IN SIX INCH?(6? TWELVE INCH (12?) LAYERS AND COMPACTED TO AT LEAST NINETY-FIVE PERCENT (95%) OF ITS MAXIMUM MODIFIED DRY DENSITY (ASTM D1557). THE USE OF ON-SITE SOILS FOR BACKFILL SHALL BE APPROVED BY THE ENGINEER OF RECORD ON THE BASIS ON LABORATORY TESTS FOR GRADATION AND A COMPACTION TEST MADE BY A CERTIFIED TESTING FACILITY CERTIFYING THE SAME TO THE ENGINEER OF RECORD.

BACKFILL FOR THE RETAINING WALLS SHALL CONFORM TO THE SPECIFIED BACKFILL SHOWN ON THE PLAN AND ADEQUATE TESTING TO MEET THE BACKFILL SPECIFIED SHALL BE PROVIDED, INCLUDING BUT NOT LIMITED TO SIEVE ANALYSIS AND COMPACTION LAB TESTING TO DETERMINE BACKFILL GRADATION AND MAXIMUM DENSITY AND IN-PLACE COMPACTION TESTING TO INSURE MAXIMUM IN-PLACE DENSITY.

THE ELEVATION OF THE LEVELING PAD TO BE APPROVED BY THE ENGINEER OF RECORD.

GEO-GRID ELEVATIONS SHOWN HEREON ARE FOR BIDDING PURPOSES AND MAY REVISED IN THE FIELD BY THE ENGINEER OF RECORD TO MEET FIELD CONDITIONS.

INSPECTION OF PLACEMENT OF THE WALL COMPONENTS, THE LEVELING PAD, DRAINAGE COMPONENTS AND ALL GEO-GRID PLACEMENT LIFTS.

THE CONTRACTOR IS REQUIRED TO CONSTANTLY AND CONTINUOUSLY ADVISE THE ENGINEER OF RECORD OF HIS OPERATIONS TO INSURE THAT ALL INSPECTIONS ARE MADE FOR THE PLACEMENT OF THE ENTIRE WALL SYSTEM. FAILURE TO NOTIFY THE ENGINEER OF RECORD OF ANY ACTION RELATED TO THE CONSTRUCTION OF THE WALL SYSTEM WILL ELIMINATE THE ABILITY OF THE ENGINEER OF RECORD TO PROVIDE AGENCIES WITH JURISDICTION OVER THE BUILDING PERMIT FOR THIS ACTION AND PROVIDE THE OWNER A CERTIFICATION OF CONSTRUCTION COMPLIANCE.

24-HOUR NOTICE TO THE ENGINEER OF RECORD FOR ALL ACTIONS RELATED TO THE CONSTRUCTION OF THE WALL SYSTEM IS REQUIRED.

SUBSTITUTION OF ANOTHER SEGMENTAL RETAINING WALL / MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL SYSTEM REQUIRES A SIGNED SEALED DESIGN BY AN ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW YORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DESIGN REVIEW FEES, SUBMISSION OF A REVISED DESIGN TO THE VILLAGE OF ARDSLEY, RE-SUBMISSION TO THE VILLAGE OF ARDSLEY PLANNING BOARD AND DESIGN REVIEW COMMITTEE.

ELEVATIONS, GRADES AND DIMENSIONS SHOWN HEREON FOR THE PROPOSED WALL MAY VARY TO MEET FIELD CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE ENGINEER OF RECORD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY CHANGES AND/OR FIELD CONDITIONS THAT WILL IMPACT THE INSTALLATION OF THE RETAINING WALL.

A RAILING OR A FENCE ALONG THE TOP OF THE RETAINING WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.

TEMPORARY FENCING WILL BE REQUIRED TO PREVENT ACCESS TO THE UNDER CONSTRUCTION WORK AREA TO PRECLUDE ACCESS AND IF NECESSARY AT THE TOP OF THE WALL UNDER CONSTRUCTION.

WORK AREA A RAILING OR A FENCE ALONG THE TOP OF THE RETAINING WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE.

AT COMPLETION THE APPLICANT'S (OWNER) ENGINEER OR THE ENGINEER OF RECORD SHALL SUBMIT A CERTIFICATE OF CONSTRUCTION COMPLIANCE AND AN AS-BUILT PLAN, PROFILE AND SECTION FOR THE RETAINING WALL WHICH WILL CERTIFY THAT THE WALL WAS INSTALLED IN SUBSTANTIAL ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS OR IN THE ALTERNATE, IF FIELD CONDITIONS DICTATED SUBSTANTIAL CHANGES TO THE ORIGINAL DESIGN, THEN A REVISED PLAN WILL BE SUBMITTED CERTIFYING THAT THE RETAINING WALLS ARE INSTALLED IN SUBSTANTIAL ACCORDANCE WITH THE REVISED PLAN.

LEGEND

219	MINOR CONTOUR
220	MAJOR CONTOUR
220	PROPOSED GRADE
	EXISTING TREE
	EXISTING TREE TO BE REMOVED
EL 209.73	EXISTING SPOT ELEVATION
	PROPOSED SEGMENTAL WALL
	EXISTING CATCH BASIN
TW	TOP OF WALL
BW	BOTTOM OF WALL
TC	TOP OF CURB
BC	BOTTOM OF CURB
	DRAIN MANHOLE
	HAYBALES

NEW PARKING AREA WALL

STATE OF NEW YORK — PAUL J. PETRETTI — LICENSED PROFESSIONAL ENGINEER

NYS L.S. LIC. NO. 49371

N. Y. S. P. E. No. 55191

REVISIONS

NO.	DATE	DESCRIPTION
1	2.13.18	AS PER PJP

ORIGINAL: DECEMBER 27, 2017

RETAINING WALL DESIGN
PREPARED FOR
HASTINGS LANDING
VILLAGE OF HASTINGS-ON HUDSON
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

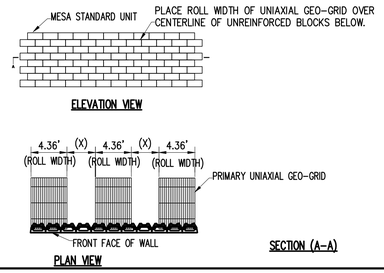
3 / 4

PAUL J. PETRETTI
CIVIL ENGINEER & LAND SURVEYOR
30 GOULD AVENUE, DOBBS FERRY, NEW YORK 10522.

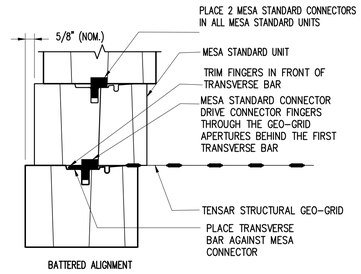
CIVIL ENGINEERING - LAND SURVEYING & MAPPING - SITE DESIGN & PLANNING
ENVIRONMENTAL & GEOTECHNICAL - DRAINAGE & STORMWATER QUALITY
EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS
Phone Number 914-674-9827 Cell 914-672-1518 E-Mail PJPCELS@Aol.com

C:\CIVL 3D PROJECTS\NAD83-NAVD88\VILLAGE OF HASTINGS\004.100\BLOCK 95\DWG\HASTINGS LANDING.dwg, SHEET # 3, 3/5/2018 9:04:24 AM,
© by PDF.pc3, ARCH expand D (24.00 x 36.00 inches)

PERCENT COVERAGE	X
100	0

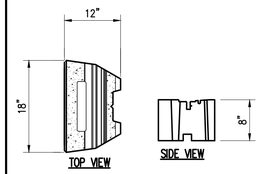


TYPICAL GEO-GRID PERCENT COVERAGE



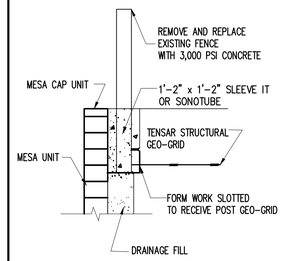
NOT TO SCALE

MESA STANDARD UNIT AND GEO-GRID CONNECTION DETAIL



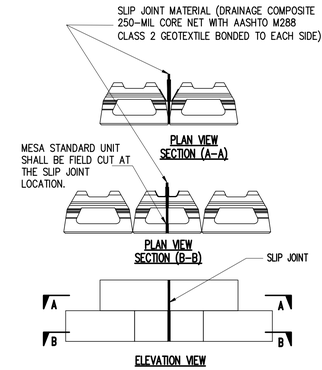
NOT TO SCALE

MESA HIGH PERFORMANCE UNIT



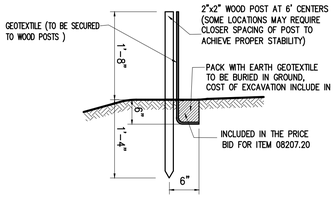
NOT TO SCALE

FENCE POST ON TOP OF WALL DETAIL



NOT TO SCALE

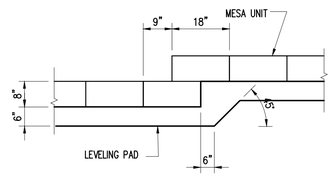
SLIP JOINT DETAIL



SILT FENCE DETAIL

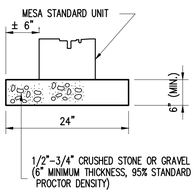
NOT TO SCALE

SILT FENCE



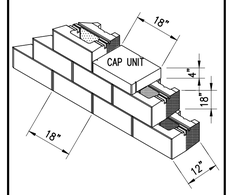
NOT TO SCALE

TYPICAL LEVELING PAD STEP DETAIL



NOT TO SCALE

GRAVEL LEVELING PAD DETAIL



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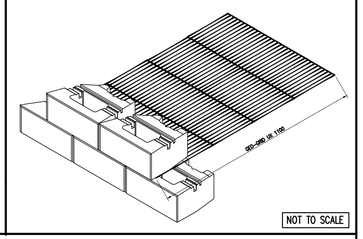


NOT TO SCALE

MESA STANDARD UNIT & CAP UNIT ISOMETERIC

FABRIC DRAINAGE SPECIFICATION

GEOTEXTILE MAY BE USED IN LIEU OF AGGREGATE FOR THE DRAINAGE MEDIUM BEHIND THE MESA FACING UNITS IF SELECT FILL USED IN THE REINFORCED ZONE AS A MINIMUM, COMPLIES WITH CDOT CLASS 1, SECTION 703.08, STRUCTURE BACKFILL MATERIAL OF STANDARD CDOT SPECIFICATIONS FOR ROAD AND BRIDE CONSTRUCTION DEFINES THE SOIL'S PHYSICAL PROPERTIES.

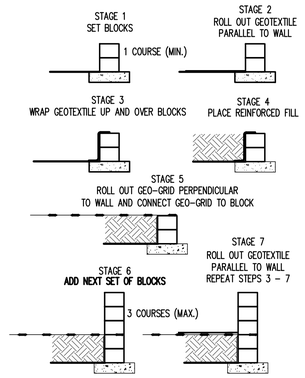
AN EIGHT (8) OZ. PER SQUARE YARD NON WOVEN NEEDL PUNCHED GEOTEXTILE, AASHTO M288 CLASS 1, SHALL BE USED AS THE FILLER MEDIUM.

UNLESS OTHERWISE APPROVED BY TENSAR, THE GEOTXTILE SHALL BE DELIVERED TO THE PROJECT SITE IN ROLLS THAT HAVE BEEN FACTORY CUT TO THE SPECIFIED WIDTHS FOR THE INSTALLATION.

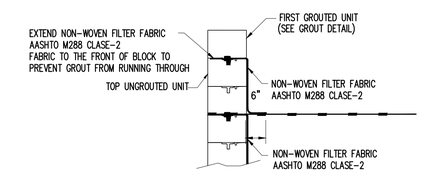
INSTALLATION PROCEDURE

1. INSTALL EACH COURSE OF THE MESA FACING UNITS BETWEEN THE TOP OF THE LAST GEO-GRID PLACED AND THE BOTTOM OF THE NEXT LAYER OF GEO-GRID ABOVE AS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. THE FACING UNITS SHALL BE ALIGNED AND LEVELED IN ACCORDANCE WITH WALL INSTALLATION SECTION.
2. PRIOR TO PLACING THE SELECT BACKFILL, THE GEOTEXTILE SHALL BE PLACED BEHIND THE UNITS SUCH THAT A MINIMUM OF SIX (6) INCHES OF MATERIAL IS TURNED INTO THE FILL AT THE TOP AND BOTTOM. THE GEOTXTILE SHALL THAN BE ADJUSTED TO PRESENT A RELATIVELY SMOOTH SURFACE.
3. THE SELECT BACKFILL SHALL BE THEN BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
4. INSTALL THE GEO-GRID REINFORCEMENT BY PLACING THE MESA CONNECTORS IN THE SLOTS AS SHOWN IN THE WALL INSTALLATION GUIDE. CONNECTORS WILL PUSH THE FABRIC INTO THE SLOT AS SHOWN IN TYPICAL SECTION, THIS SHEET REPEAT THE PROCESS COMMENCING WITH ITEM 1.
5. AFTER THE LAST LEVEL OF PRIMARY GEO-GRID REINFORCEMENT HAS BEEN PLACED, INSTALL THE REMAINING COURSES OF UN GROUTED MESA FACING UNITS.
6. PLACE THE EIGHT (8) OZ. GEOTEXTILE SUCH THAT THE LEADING EDGE OF THE MATERIAL IS EXTENDED TO THE FRONT OF THE UPPERMOST UN GROUTED UNIT. THE BOTTOM OF THE FABRIC SHALL EXTEND A MINIMUM OF SIX (6) INCHES INTO THE SELECT FILL.
7. INSTALL THE FIRST COURSE OF GROUTED MESA STANDARD UNITS AND ALIGN AND LEVEL AS REQUIRED IN THE INSTALLATION GUIDE.

GEOTEXTILE WIDTHS REQUIRED FOR THE DETAILS:
AASHTO M288 CLASS 1: 36 INCH



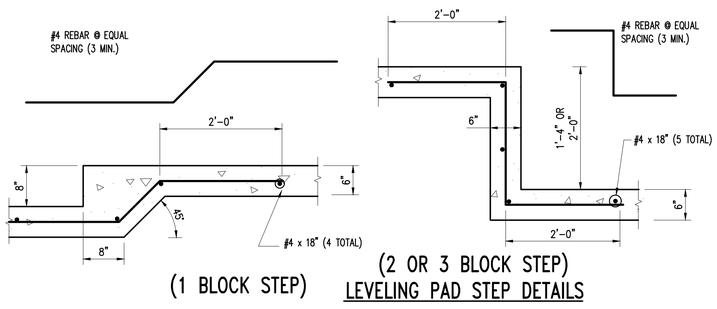
STAGES OF GEOTEXTILE LAYOUT
MESA WALL
GEOTEXTILE SEPARATOR



TYPICAL SECTION

NOT TO SCALE

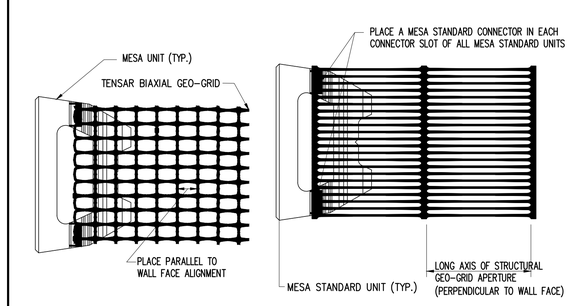
TYPICAL GEO-GRID PERCENT COVERAGE



LEVELING PAD STEP DETAILS

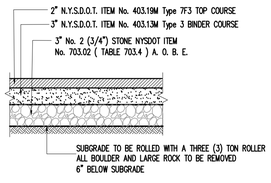
NOT TO SCALE

CONCRETE LEVELING PAD IF REQUIRED, A.O.B.E.



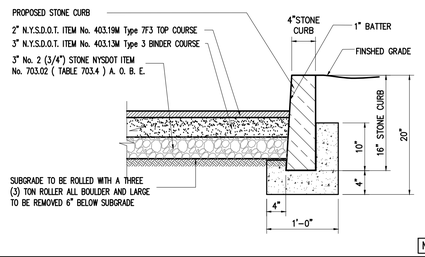
NOT TO SCALE

GEO-GRID UX1100



SCALE N.T.S.

PARKING PAVEMENT DETAIL



NOT TO SCALE

PAVING & STONE CURB DETAIL

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NOTES, SECTIONS AND DETAILS

STATE OF NEW YORK · PAUL J. PETRETTI · 049317 · LICENSED PROFESSIONAL ENGINEER

NYS L.S. LIC. NO. 49371

STATE OF NEW YORK · PAUL J. PETRETTI · 055191 · LICENSED PROFESSIONAL ENGINEER

N. Y. S. P. E. No. 55191

REVISIONS		
NO.	DATE	DESCRIPTION

ORIGINAL: DECEMBER 27, 2017

RETAINING WALL DESIGN
PREPARED FOR
HASTINGS LANDING
VILLAGE OF HASTINGS-ON HUDSON
TOWN OF GREENBURGH
WESTCHESTER COUNTY, NEW YORK

4 / 4

PAUL J. PETRETTI
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NEW YORK 10522.

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EROSION & SEDIMENT CONTROL STORMWATER POLLUTION PREVENTION PLANS

Phone Number 914-674-9827 Cell 914-672-1518 E-Mail PJPCELS@Aol.com

\CIVIL 3D PROJECTS\NAD83-NAVD88\VILLAGE OF HASTINGS\004.100\BLOCK 95\DWG\HASTINGS LANDING.dwg, SHEET #4, 3/5/2018 8:24:01 AM,
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