



bkla studio

August 3, 2016

Planning Board
Village of Hastings-on-Hudson
7 Maple Avenue
Hastings-on-Hudson, NY 10706

**RE: Steep Slopes Application for the Danziger Residence,
220 Mt. Hope Blvd, Hastings-on-Hudson, NY**

Dear Members of the Board,

Based on the comments received from James J. Hahn Engineering, P.C., the consultant for the Village of Hastings-on-Hudson, and the conversation Mr. Eliot Senor, the project engineer, had with George Palmer from James J. Hahn's office, we made the following changes to the drawings: S-1 (Site Plan), S-2 (Slope Analysis & Cross Section), S-3 (Planting Plan & Details) and S-4 (Stormwater Pollution Prevention & Erosion Control Plan):

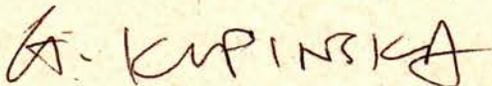
1. The temporary grading along the construction access road is shown as well as a note calling to restore existing grading after the construction will be completed. Any disturbed areas will be fine graded and seeded after the construction access road will be removed.
2. The landscape specification is calling for de-compacting and aerating the soil around the root systems of the existing trees affected by the construction. The trees will be deep root fertilized after project will be completed. We are proposing removal of one additional tree at the edge of access road.
3. The plan is showing protective steel plates across the public sidewalk. If the concrete pavement will be damaged during the construction, it will be repaired as shown in "Concrete Pavement Restoration Detail" on sheet S-3
4. Stormwater Pollution Prevention & Erosion Control Plan (S-4) is showing a detail of the proposed catch basin.
5. The proposed improvements are now shown in color and are all labeled as "proposed".

6. The construction detail of the proposed stone wall and the fence is shown in detail "Retaining Stone Wall / Bluestone Terrace / Pool Fence Detail" on sheet S-3. The proposed elevations of the retaining walls, wood deck and bluestone terrace are indicated on the plans S-1 and S-4.
7. The area of disturbance is delineated with a silt fence on sheets S-1 (Site Plan) and S-4 (Stormwater Pollution Prevention & Erosion Control Plan)
8. The name and address of the surveyor is indicated in general notes on sheets S-1 (Site Plan) and S-2 (Slope Analysis & Cross Section). Surveyor stamp was added to S-4 plan.
9. The location of the percolation test was added to the sheet S-4.
10. The note was added to S-4 plan stating that the proposed infiltration system will not be connected until construction is completed and the site is stabilized.
11. The inspection port is shown and labeled now on the drawings.
12. The existing utilities are shown on the plans. Before the work will start, the contractor will be required to contact NY Underground Utilities Call Center to verify that no utilities will be disturbed during the construction. The note regarding contractor's responsibility will be shown in our working drawings.
13. The north arrow was revised on all drawings to match.
14. Plan S-4 (Stormwater Pollution Prevention & Erosion Control Plan) is now in larger (1"-10'-0") scale.
15. The construction entrance detail on the drawing S-1 was changed to match the detail from the drawing S-4
16. The note regarding cut /fill material was added to the sheet S-2 (Slope Analysis & Cross Section)
17. The remaining requested notes are shown on Site Plan (S-1) under "Additional Notes"

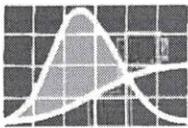
James J. Hahn's office agreed there is no need to collect storm water from the proposed wood deck. There is no known existing drainage system in the area of the proposed improvements therefore no description is provided. Based on the neighbor's comments during the last public hearing, we added additional screening along the north property line.

Please do not hesitate to contact us with any questions or comments. We look forward to presenting the revised plans and discussing the proposed project during upcoming Planning Board meeting.

Sincerely,



Bozena (Genna) Kupinska, ASLA, RLA, LEED AP, CPESC
for BKLA Studio



M E M O R A N D U M

To : Kathleen Sullivan, Planning Board Chairperson
Hastings-on-Hudson

From : George E. Pommer, P.E.

Dated : August 11, 2016

Subject : Steep Slopes Review
220 Mt. Hope Blvd.
Village of Hastings-on-Hudson, NY

**Drawings
Reviewed** : "Site Plan", Revised 8/3/16, Sheet S-1.
"Slope Analysis & Cross Section", Revised 8/3/16, Sheet S-2.
"Planting Plan & Details", Revised 8/3/16, Sheet S-3.
"Stormwater Pollution Prevention & Erosion Control Plan",
Revised 8/3/16, Sheet S-4.

**Documents
Reviewed** : Memorandum from BKLA Studio, Dated 8/3/16.

The referenced plans have been reviewed for compliance with Chapter 249, steep slopes, of the Village Code. The applicant proposes to construct a patio, deck, and spa on 0.47 acres in the R-10 Zoning District. The improvements include grading, drainage, retaining walls, landscaping, and tree removal.

Pursuant to our review of the most recent plan, the applicant has satisfactorily addressed the comments from our previous memorandum, therefore we have no objection to approval of the Site Plan Application.

If you have any questions, please do not hesitate to contact me at your earliest convenience.

DH:JAH:ay

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LEGEND

LA	Landscape Architect	C.B.	Catch Basin
PC	Pool Contractor	U/W	Underwater
TC	Tennis Court Contractor	W	Watt
TRC	Tree Contractor	UG	Underground
LC	Landscape Contractor	+100	Proposed Spot Elevation
EC	Electric Contractor	+100	Existing Spot Elevation
MC	Masonry Contractor	100	Proposed Contour
FC	Fence Contractor	(100)	Existing Contour
BM	Bench Mark	(100)	Existing tree to remain
T.R.	Top of rock elevation	(100)	Existing tree to be removed
Inv.	Invert elevation		
T.W.	Top of wall elevation		
S.E.	Soil elevation		
R.P.	Radius point		
R	Radius		
P.T.	Point of tangency		



SITE LOCATION
N.T.S.

ADDRESS: 220 MT. HOPE BLVD
HASTINGS-ON-HUDSON, NY
OWNER: DR. MARC DANZIGER
LOT ID: 490-87-13
ZONE: R-10
LOT SIZE: 0.41 AC

GENERAL NOTES:
TOPOGRAPHIC AND SURVEY INFORMATION TAKEN FROM THE DRAWING TITLED: "TOPOGRAPHIC MAP LOT NOS. 565, 566, 567, 568, 569, 570 & 571 BLOCK "C" AS SHOWN ON FINAL MAP OF HUDSON HEIGHTS LOCATED AT HASTINGS-ON-HUDSON, TOWN OF GREENBURGH WESTCHESTER COUNTY, NEW YORK" PREPARED BY GABRIEL E. SENOR, P.C. CONSULTING ENGINEER, LAND SURVEYORS, 90 NORTH CENTRAL AVE, HARTSDALE NY 10530, DATED FEBRUARY 4, 2016

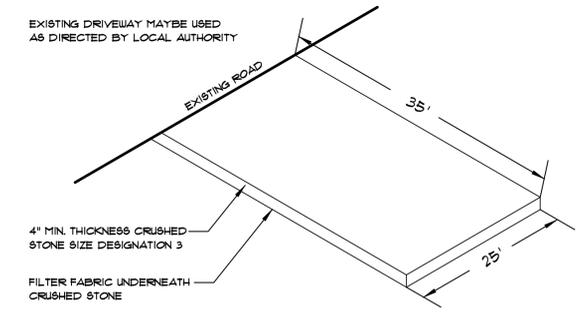
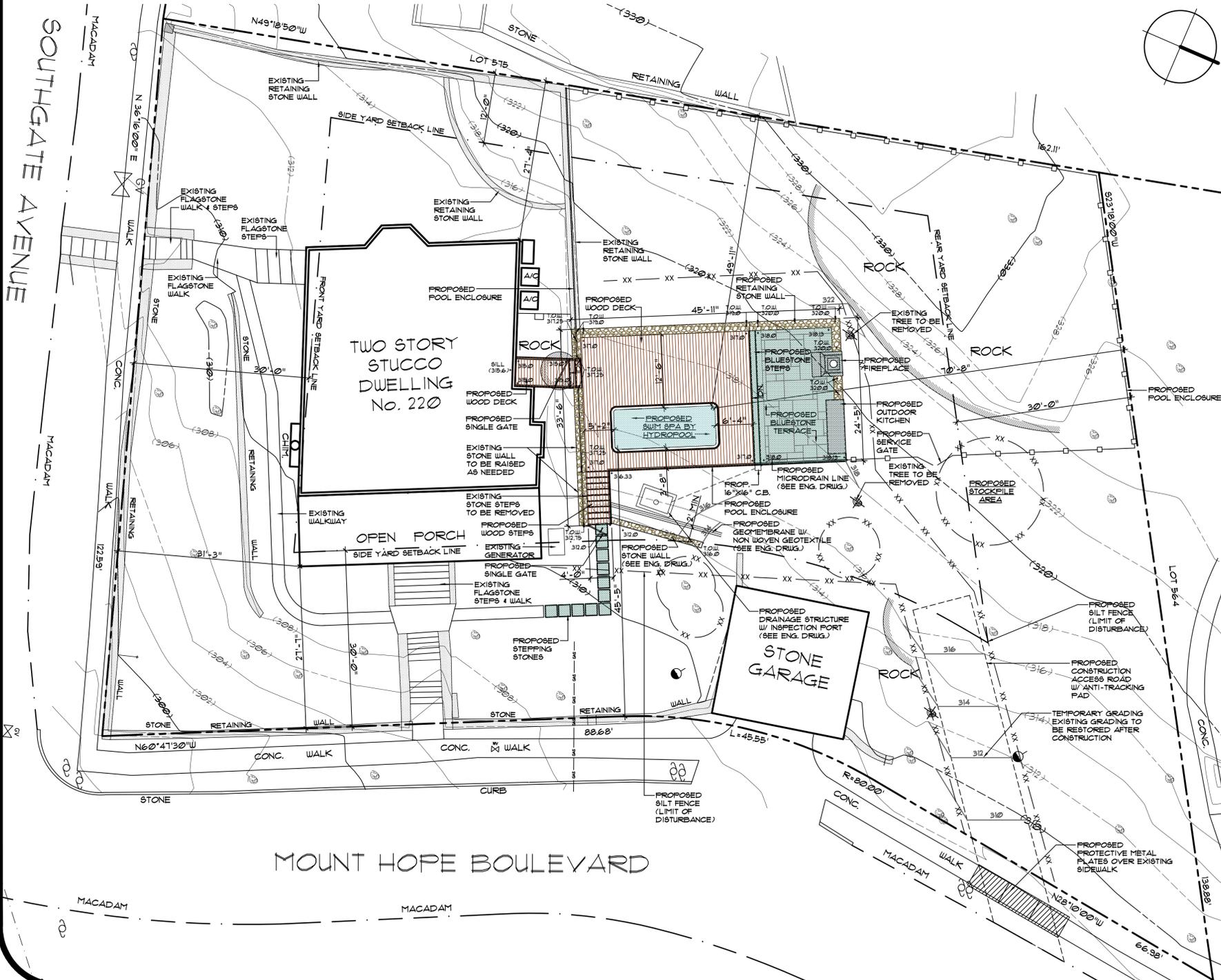
LOT COVERAGE CALCULATIONS

	EXISTING	PROPOSED	ALLOWED
BUILDING COVERAGE			5,183 SF.
HOUSE	2194 SF.	2194 SF.	
GARAGE	494 SF.	494 SF.	
SUIM-SPA		142 SF.	
TOTAL	2,688 SF.	2,830 SF.	
DEVELOPMENT COVERAGE			7,165.6 SF.
BUILDING COVERAGE	2,688 SF.	2,830 SF.	
STONE TERRACE 4 STEPS		296 SF.	
WOOD DECK 4 STEPS		611 SF.	
WALLS	936 SF.	1057 SF.	
WALKS	407 SF.	456 SF.	
SERVICE COUNTER 4 FIREPLACE		52 SF.	
TOTAL	4,031 SF.	5,302 SF.	

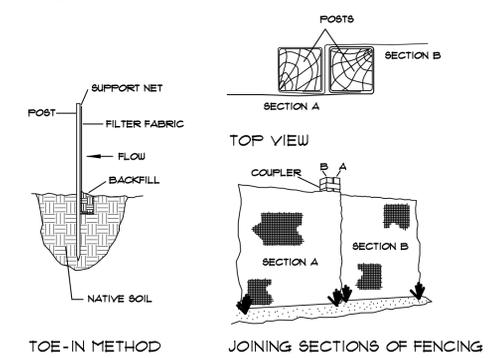
TOTAL LOT AREA 20,473.2 SF.
ALLOWABLE BUILDING COVERAGE 25% (5,183 SF.)
ALLOWABLE DEVELOPMENT COVERAGE 35% (7,165.6 SF.)

ADDITIONAL NOTES:

THE BUILDING INSPECTOR OR VILLAGE ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF DEEMED APPROPRIATE TO MITIGATE UNFORSEEN SILTATION AND EROSION OF DISTURBED SOILS.
"AS-BUILT" DRAWINGS OF THE SITE IMPROVEMENTS SHALL BE SUBMITTED TO THE VILLAGE ENGINEER FOR REVIEW PRIOR TO OBTAINING CERTIFICATE OF OCCUPANCY.
INFILTRATION SYSTEM ACCESS PORTS SHALL BE SHOWN ON THE AS-BUILT.
PROPOSED SOIL SLOPES EXCEEDING 1 ON 2 SHALL BE RIP-RAPPED AND SHALL NOT EXCEED 1 ON 1.
THE RESTORATION WORK FOR THE ROADWAY AND SHOULDER CONSTRUCTION WITHIN THE VILLAGE RIGHT-OF-WAY SHALL BE PERFORMED TO THE SATISFACTION OF THE VILLAGE ENGINEER AND VILLAGE HIGHWAY DEPARTMENT.



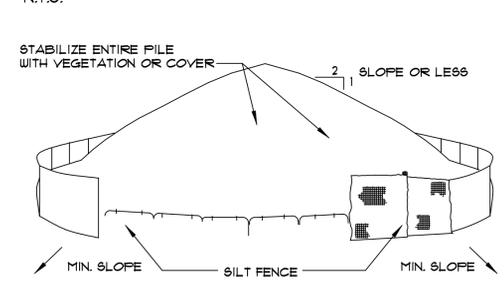
CONSTRUCTION ENTRANCE DETAIL
N.T.S.



INSTALLATION NOTES

- EXCAVATE A 4 INCH x 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
- UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
- DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
- LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
- JOIN SECTIONS AS SHOWN ABOVE.

SILT FENCE DETAIL
N.T.S.



INSTALLATION NOTES:

- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE
- MAXIMUM SLOPE OF STOCKPILING SHALL BE 1:2
- UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING OR STRAUBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
- SEE SILTATION FENCE DETAIL.

SOIL STOCKPILE DETAIL
N.T.S.

General Notes

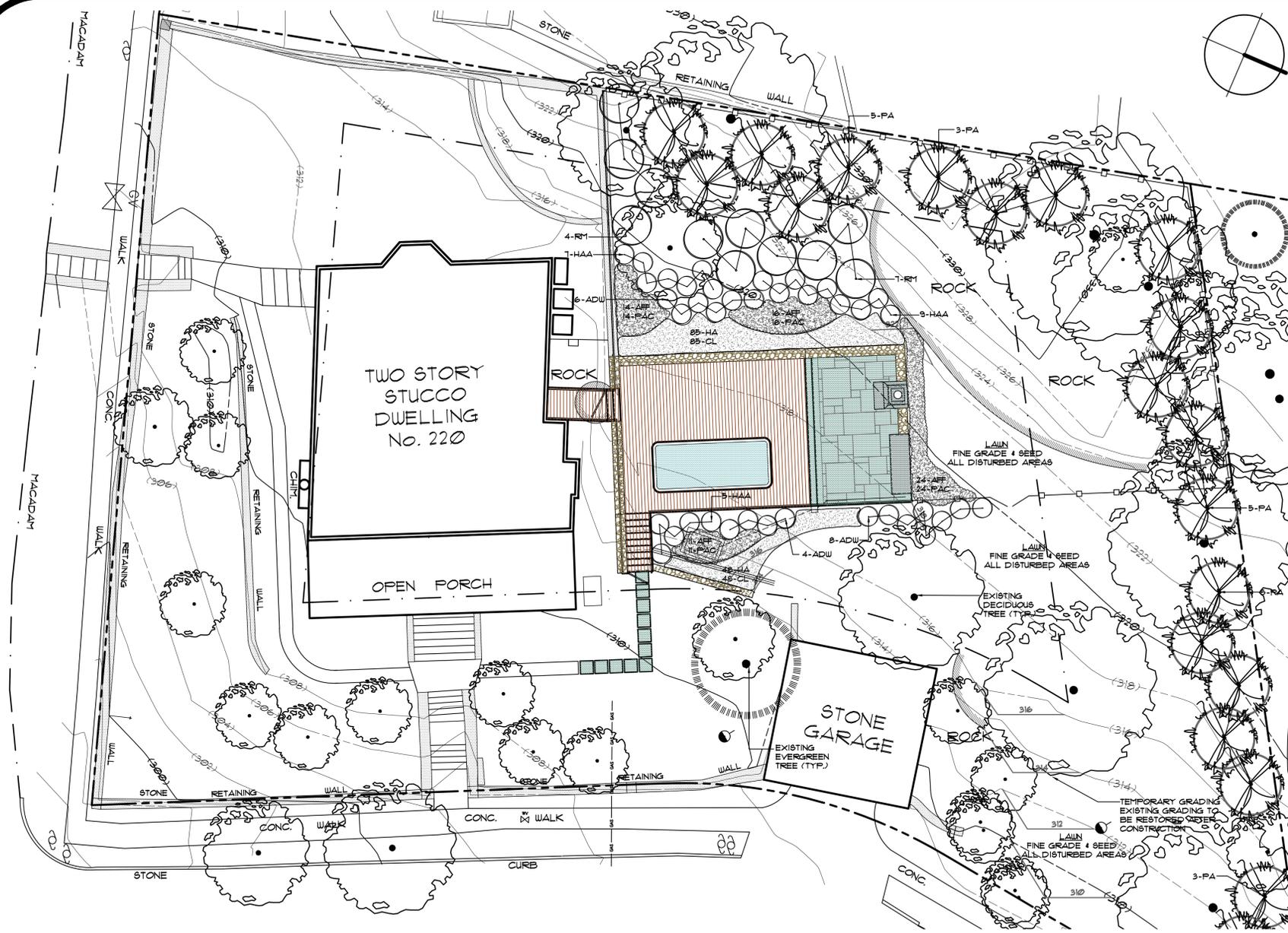


4	Drainage structures	8/3/16
3	Notes	8/2/16
2	Revisions as per engineer's comments	7/20/16
1	Drainage location	6/13/16
No.	Revision/Issue	Date

Firm Name and Address
bkla studio
3 stevens street
danbury, ct 06810
phone: 917.750.4886
fax: 203.826.9601

Project Name and Address
SITE PLAN
FOR
THE DANZIGER RESIDENCE
220 MT. HOPE BOULEVARD
HASTINGS-ON-HUDSON, NY

Project	Sheet
Date APRIL 2, 2016	S-1
Scale 1" = 10'-0"	



PLANT LIST

QTY	INITIAL	BOTANICAL NAME	COMMON NAME	SIZE
21	PA	PICEA ABIES	NORWAY SPRUCE	5-6 FT
SHRUBS				
18	ADU	AZALEA 'DELAWARE WHITE'	DELAWARE WHITE AZALEA	18-24 INCH
21	HAA	HYDRANGEA 'ANNABELLE'	SMOOTH HYDRANGEA	24-30 INCH
11	RM	RHODODENDRON 'INDEPENDENCE'	LARGE LEAVED RHODODENDRON	30-36 INCH
FERNS				
65	AFF	ATHYRIUM FILIX-FEMINA	LADY FERN	1 GALLON
65	PAC	POLYSTICHUM ACROSTICHOIDES	CHRISTMAS FERN	1 GALLON
GROUND COVERS				
133	CL	CAREX LAXICULMIS 'HOBB'	BUNNY BLUE SEDGE	1 GALLON
133	HA	HEUCHERA AMERICANA 'DALE'S STRAIN'	AMERICAN ALUMROOT	1 GALLON

GENERAL NOTES:

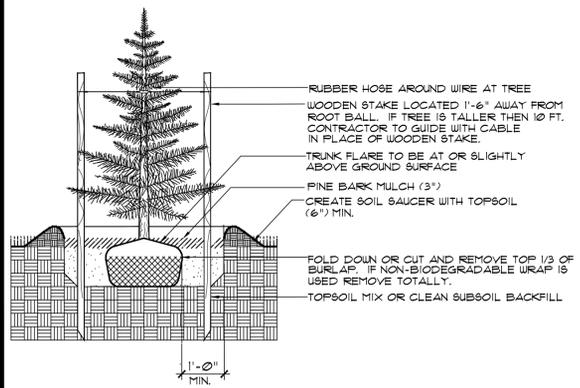
Exact location of the proposed plant material to be determined and verified by L.A. at the site before final installation.

LANDSCAPE SPECIFICATIONS

- Furnish and install all plants shown on the drawings, as specified, and in quantities as listed on the plant list. Quantities shown on drawings take precedence over the plant list.
 - All plants shall be nursery grown unless authorized to be collected.
 - Plants shall conform with the American Association of Nurserymen Standards.
 - All plants shall be typical of their species or variety and shall have a normal habit of growth. They shall be sound healthy and vigorous, well-branched and densely foliated when in leaf. They shall be free of disease, insect pests, eggs or larvae. They shall have healthy, well developed root systems.
 - Substitution will be permitted only upon approval of the Landscape Architect.
 - Plants shall be planted in locations designated on the plan or as staked out by Landscape Architect. Planting shall be in conformance with the American Association of Nurserymen Standards. All trees shall be guyed, staked and wrapped.
 - Newly planted trees and shrubs shall be pruned in accordance with the American Association of Nurserymen.
 - Mulch all plant beds with minimum of 2" shredded bark mulch.
 - All plant material shall be guaranteed for one year following date of acceptance.
- Fine grade and seed all areas disturbed by construction operations and all areas not covered by construction operations and all areas not covered by buildings, structures, paving or planting areas. State total area estimated and price per s.f. in proposal.
 - Provide and install clean fill and topsoil as required. (Min. 4" topsoil in seeded areas and min. 6" in planted areas.) State total amounts of yards of topsoil and fill included in proposal.
 - Spread and incorporate ground limestone into the top 3" of topsoil on lawn areas at the approximate rate of two tons per acre at least five days before applying commercial fertilizer. Spread and incorporate commercial fertilizer into the top 3" of topsoil on lawn areas at the rate of 1000 pounds per acre (25 pounds / 1000 s.f.) Rake topsoil to a smooth, even draining surface.
 - The rate of seeding shall be 350 pounds per acre (8 pounds per 1000 s.f.). Grass seed shall be sown by hand or by approved machines in such manner that a uniform stand will result. After seeding, the surface shall be evenly raked with a fine-toothed rake. (Seed shall be 50% Kentucky Blue, 25% Perennial Rye, 25% Red Fescue)
 - Grass seed shall be sown only between April and June 1, and between August 15 and October 31, and only during approved periods when weather conditions are suitable as determined by the Landscape Architect.
 - Apply 1" of loosely applied mulch to all seeded areas.
 - Roto-till compacted areas as required.
 - Re-seed all areas that do not show a satisfactory stand of grass after 30 days and continue to do so until a satisfactory stand of grass has been established and approved by L.A.
- De-compact and aerate the soil around the root systems of the existing trees affected by the construction. Perform deep root fertilization of the existing trees affected by the construction after project will be finished.

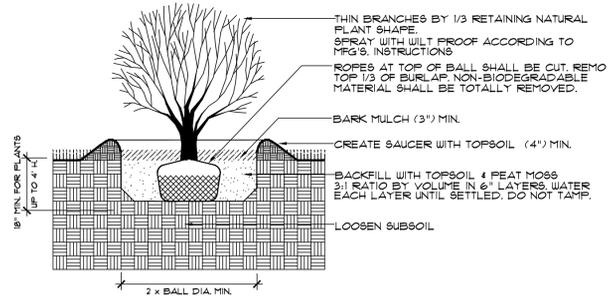
General Notes

3	Plant list	8/3/16
2	Revisions as per engineer's comments	7/20/16
1	Plant List	6/13/16
No.	Revision/Issue	Date



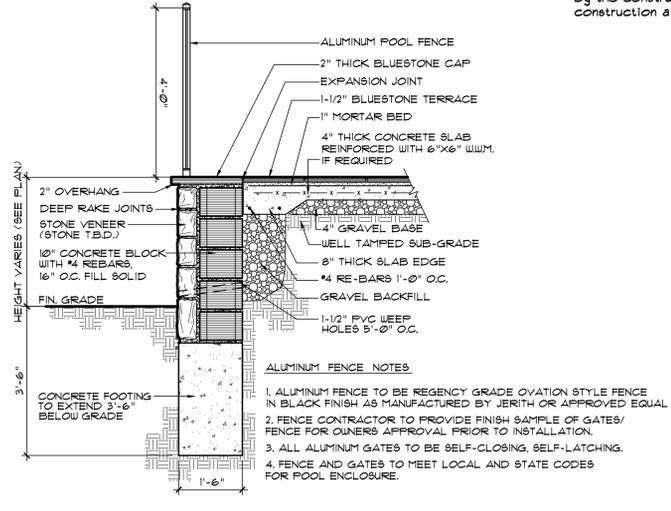
EVERGREEN TREE PLANTING DETAIL

SCALE: 1/2"=1'-0"



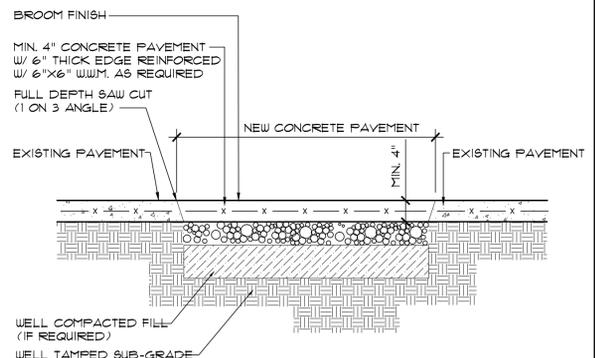
SHRUB PLANTING DETAIL

SCALE: 1/2"=1'-0"



RETAINING STONE WALL / BLUESTONE TERRACE / POOL FENCE DETAIL

SCALE: 1/2"=1'-0"



CONCRETE PAVENET RESTORATION DETAIL

SCALE: 3/4"=1'-0"

Firm Name and Address
bkla studio
 3 stevens street
 danbury, ct 06810
 phone: 917.750.4886
 fax: 203.826.9601

Project Name and Address
PLANTING PLAN & DETAILS
 FOR
THE DANZIGER RESIDENCE
 220 MT. HOPE BOULEVARD
 HASTINGS-ON-HUDSON, NY

Project	Sheet
Date APRIL 2, 2016	S-3
Scale AS SHOWN	

GENERAL NOTES

- Gabriel E. Senor, P.C. is not responsible for construction supervision unless retained under separate contract.
- Any changes made to these plans shall be approved by Gabriel E. Senor, P.C. Any changes must be filed and approved by the appropriate Department as amendments.
- Gabriel E. Senor, P.C. is not responsible for damages if changes are made and not approved as in item 1 above.
- All conditions, locations, dimensions and elevations shall be verified by the Contractor or Owner and must report all discrepancies to the Design Engineer prior to the start of construction.
- All work and materials shall comply with all applicable codes including, but not limited to the following: NYS Building Code, Local Zoning Code, ACI and AISI.
- The Contractor is responsible for all construction means and methods to implement the designs shown.
- Safety during construction is the responsibility of the Contractor and shall conform to all Local, State and Federal Agencies' requirements.
- The Contractor shall apply for and receive all necessary permits to perform the work shown on these plans prior to the start of construction.
- Final grading shall be sloped away from the building and foundations.
- Unless noted, all piping on this plan is to be 6" Rigid HDPE ASTM F110-07.
- This storm water design plan is not designed to accept footing drains. Refer to Architectural plans for footing drain design. Do not connect footing drains or sump pumps to this drainage system.
- If the Cultec drainage system is to be built in a filled area, the fill should be well drained material with a settling period of one to three months prior to the system installation. Additional percolations are required after the settling period and the system design will be revised as necessary.
- Proposed Silt Fence to be installed along existing and proposed contours.
- Orange Construction Fence to be installed along the limits of the proposed disturbance limits line.
- Roof leaders to be connected to the drainage system with 6" rigid HDPE pipe at 2% min. slope or as shown.
- The Contractor and all Sub-Contractors must submit a "Contractor Certification Statement" as per section 294-8 of the NYSDEC "Stormwater Pollution Prevention Plan" manual prior to the start of construction.
- If imported fill material is required, it shall be certified in writing by a New York State Licensed Professional Engineer as non-contaminated, clean fill suitable for the intended use. Percolation tests shall be performed by the Design Engineer to demonstrate that the stormwater management practice will draw down the entire water quality volume within 48 hours. The results of the percolation test (s) shall be submitted to the Village Engineer for review and approval.
- All proposed temporary seeding mixture shall be in accordance with the New York State Standards and Specifications for Urban Erosion Control, dated August 2005.
- POST CONSTRUCTION MAINTENANCE:**
- Land Owner to visually inspect all stormwater structures for silt and debris during May and November of each year. Any silt and debris to be removed by jet vacuum if within 12" of lowest pipe invert (min 24" sump required).
- Decomposition of soils following construction is recommended. This will not only aid in the re-establishment of vegetation following construction, but will help to ensure that lawn area is pervious in the future.

EROSION CONTROL NOTES

INSTALLATION & MAINTENANCE OF EROSION CONTROL

CONSTRUCTION SCHEDULE

NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.

EROSION CONTROL MEASURES

- Install all erosion control measures prior to start of construction.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY

MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)

- After any rain causing runoff, Contractor to inspect silt fences, etc. and remove any excessive sediment and inspect stockpiles and correct any problems with seed establishment.
- Inspections shall be documented in writing and submitted to the appropriate Municipal Agency having jurisdiction.

STOCK PILING OF EXCAVATED MATERIAL

- Stock Piling and Stockpile
- Stockpile Excavation Subgrade
- Seed piles with 1 lb. total annual ryegrass or remove from site within two days.

INSPECTION BY MUNICIPALITY

FINAL GRADING

- Remove excavated subgrade from site
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY

LANDSCAPING

- Spread topsoil evenly over areas to be seeded. Hand rake level.
- Broadcast 120# of fertilizer "Fertogrow" mix or equal over areas to be seeded.
- Apply straw mulch and water within 2 days of completion of seeding. Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY

FINAL LANDSCAPING

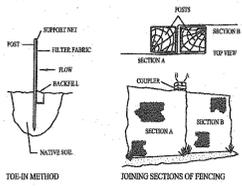
- Grass Established.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

INSPECTION BY MUNICIPALITY

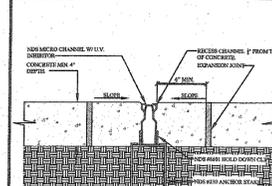
FINAL INSPECTION

- All erosion control measures removed and grass established.
- Call for inspection from the appropriate Municipal Agency having jurisdiction at least 2 days prior to finish.

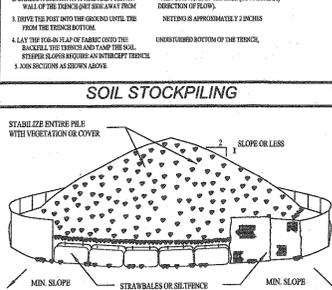
SILT FENCE



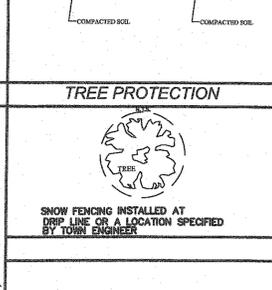
MICRODRAIN



SOIL STOCKPILING



TREE PROTECTION



CULTEC CHAMBERS

GENERAL NOTES

Maintain 10 ft. clearance to buildings and private property lines.

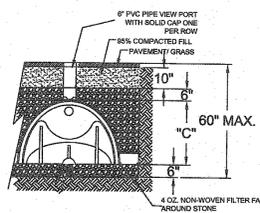
This system is only designed to receive runoff from the new additional impervious surfaces.

Do not connect footing drains to this system. Install separate system for the footing drains and sump pumps.

Recharger unit by Cultec, Inc. of Brookfield, Ct. refer to Cultec, Inc.'s current recommended installation guidelines.

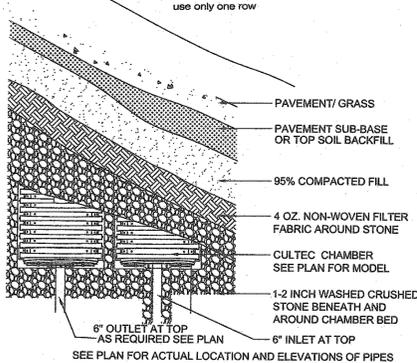
Use recharger 330HD heavy duty for traffic and/or H2O applications.

Recharger 330HD heavy duty units are installed in the part along the length of the chamber.

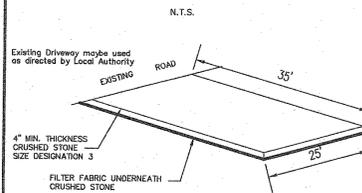


All recharger chambers must be installed in accordance with all applicable local, state and federal regulations.

Unit	A	B	C
Recharger 180HD	36"	39"	20.5"



CONSTRUCTION ENTRANCE DETAIL



"Cut/fill material shall not be imported to or exported from the site."

"The Building Inspector or Village Engineer may require additional erosion control measures if deemed appropriate to mitigate unforeseen situation and erosion of disturbed soils."

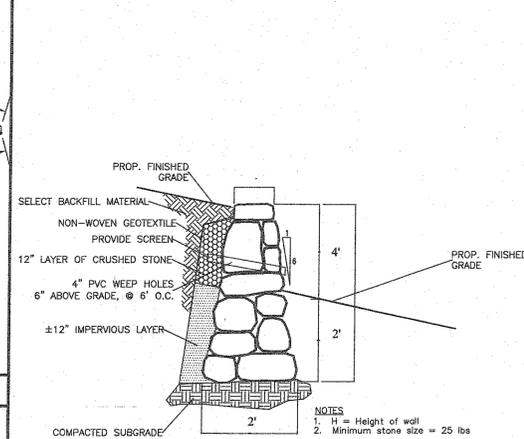
"As-Built" drawings of the site improvements shall be submitted to the Village Engineer for review prior to the issuance of Certificate of Occupancy."

"Infiltration system access ports shall be shown on the as-built."

"Proposed soil slopes exceeding 1 on 2 shall be rip-rapped and shall not exceed 1 on 1."

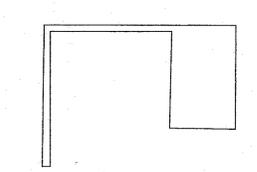
"The restoration work for the roadway and shoulder construction within the Village Right-of-Way shall be performed to the satisfaction of the Village Engineer and Village Highway Department."

MORTARED JOINT STONE WALL



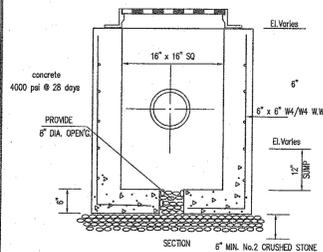
- 1. H = Height of wall (4 FT. MAX.)
- 2. MINIMUM STONE SIZE = 50 LBS.

IMPERVIOUS SURFACE AREAS



NEW IMPERVIOUS 479 SF.

SURFACE INLET DETAIL



RETENTION CALCULATIONS

Soil Percolation Rate

Soil Percolation Tests were done at the site and performed in accordance with the procedure outlined in the "Stormwater Management" Westchester County Stormwater Best Management Practices Manual Series. The rate on the tests performed were as follows:

Perc Test Hole	36 inch deep	Rate	12 min/4" DROP
	12 inch dia.		

Drywell Design

This design procedure follows the procedure outlined on Page 6.23-6.25 of the above mentioned Manual.

Design Criteria

The net increase in impervious surface is 479 S.F.

- Use the design storm criteria of 100 Year Storm, 24 Hour, Zero net increase in runoff.
- Provide subsurface disposal system consisting of Cultec Recharger 180HD embedded in 1.5" to 2" crushed stone as per detail.
- Determine Soil Percolation Rate.

A. Area of Soil Percolation (Ap)

Surface Area of Cylinder (Ac)

Ac = π X dia X H(Avg depth of water)

Ac = 3.14 X 1 X 0.88

Ac = 2.61 S.F.

Bottom Area of Cylinder

Ab = π X r²

Ab = 3.14 X 0.5²

Ab = 3.14 X 0.25

Ab = 0.79 S.F.

Ap = Ac - Ab

Ap = 3.39

B. Volume of Percolation (Vp)

Vp = Ab X H

Vp = 0.79 X 0.25

Vp = 0.20

C. Soil Percolation Rate (Sr)

Sr = (Volume/Vp) Area (Ap) (Time Rate PER 3" DROP) X 60 min. X 24hr.

Sr = (0.20 / 3.39) (3.39 / 12) (1440)

Sr = 6.94 C.F./S.F./DAY

Sr = 6.94 - 25% CLOGGING FACTOR

Sr = 5.21

4. Calculate Required Storage Volume (Vs)

100 Yr. Storm 24 Hour Rainfall is 7.0 inches

Volume = CN = 98 runoff is 6.98 inch 0.75 ft.

Vs = Δ Volume X Area of Impervious Surface

Vs = 0.30 X 479

Vs = 143 C.F.

5. Calculate Volume of Cultec Chamber (per L.F.) (Vw)

Vw = Volume of Chamber + Volume of Gravel

Vw = 3.3 C.F./L.F. + 2.6 C.F.

Vw = 5.95 C.F./L.F.

6. 24 Hour Percolation Rate Volume per Cultec Chamber (Vp) (per L.F.)

Vp = Surface Area of Gravel X Soil Perc Rate (Sr)

Vp = (1.7 X 2) X 5.21

Vp = 3.4 X 5.21

Vp = 17.71 C.F./L.F./Day

7. 24 Hour Volume per Cultec Chamber (Vt) (per L.F.)

Vt = Vw + Vp

Vt = 5.95 + 17.71

Vt = 23.56 C.F./L.F./Day

8. Required Number of Cultec Chambers

Dw = Required Volume of Storage/ Total Volume per Cultec Chamber (per L.F.)

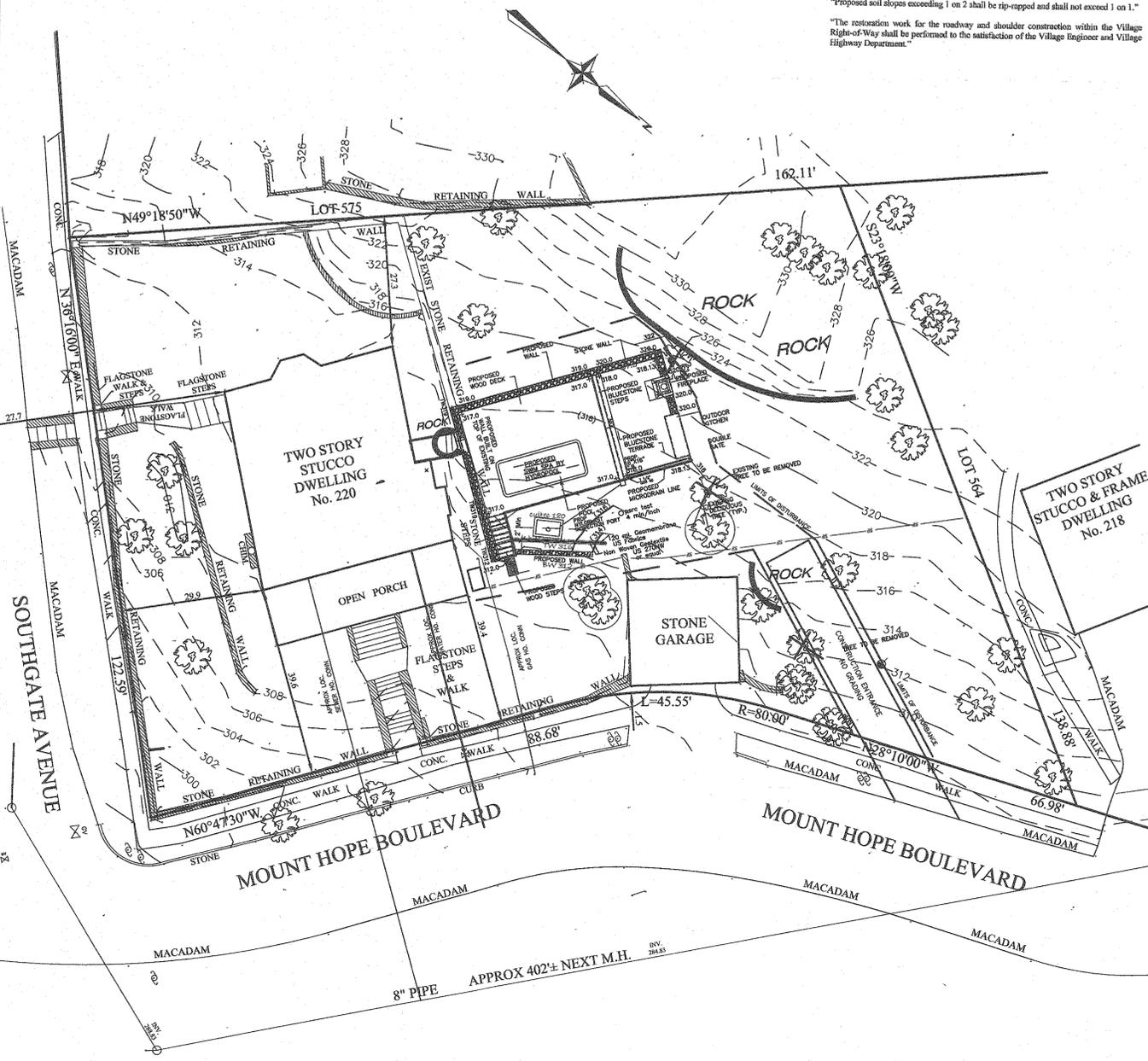
Dw = 143 C.F. / 23.56 C.F./L.F./Day

Dw = 6.07 L.F.

Du = Number of Units Required

Du = 6.07 L.F. / 6.33 L.F. per unit

Du = 1.0 Cultec Chamber Units USE 1.0 CULTEC C



I certify that the proposed activity will disturb the steep slopes to the minimum extent possible, and the proposed mitigation measure will prevent to the maximum extent practical the adverse effect of any disturbance of steep slope area on the environment and any neighboring properties.

For Fence Enclosure see plan by bkia Studio.
Infiltration system must not be connected until construction is complete and site is stabilized.

LEGEND

- CATCH BASIN
- DRAIN INLET
- UTILITY POLE
- SIGN POST
- HYDRANT
- WATER VALVE
- GAS VALVE
- LIGHT POLE
- GUY WIRES
- TELE. MANHOLE
- SEWER MANHOLE
- WATER MANHOLE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- MANHOLE
- ELECTRIC BOX
- EXISTING GRADE
- PROPOSED GRADE
- 14 TREE
- TREE TO BE REMOVED

1	Aug 3, 2016	sga	
NO	DATE	DESC	BY
REVISIONS			

STORMWATER POLLUTION PREVENTION AND EROSION CONTROL PLAN

PREPARED FOR: MARC DANZIGER

STREET: 220 MT. HOPE BLVD.

CITY: HASTINGS, NY

A.K.A. SECTION 4.90 TAX BLOCK 87 - LOT 13

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SCALE: 1" = 15'
DATE: JUNE 13, 2016
DRAWN BY: ES. CHECKED BY: ES.
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