

**SCHEDULE A - PERIMETER LANDSCAPE EDGE**

Category	Adjacent to Roadways	Adjacent to perimeter Properties
Perimeter#	1, Roadside	2, 3, 4
Landscape Type	A	A, A, A, A
Linear Feet of Perimeter	75'	76', 397', 401'
Credit for Existing Vegetation (No, Yes and %)	0	Yes, 76' 0
Number of Shade Trees Required	0	0, 5, 220*
Number of Shade Trees Provided	0	0, 3, 5, 0
Number of Evergreens Required	0	0, 0, 0
Number of Evergreens Provided	0	0, 0, 0

All provided 10 AR shade trees are Acer Rubrum (Red Maple type trees) type 2, 1/2" to 3" Caliber \* Feeding provided

**SCHEDULE B - INTERNAL LANDSCAPING**

Category	Adjacent to Roadways
Landscape Type	NON-RESIDENTIAL
Number of Parking spaces	29
Credit for Existing Vegetation	0
Number of Island Required	2
Number of Island Provided	2
Number of Trees Required	2
Number of Trees Provided	2

SURETY IS BASED ON \$300.00 PER REQUIRED SHADE TREES AND 220 LINER FEET OF FENCING AT \$10.00 PER L.F. TOTAL SURETY POSTED WITH THE DEVELOPER'S AGREEMENT \$5200.00

- SEQUENCE OF CONSTRUCTION:**
- OBTAIN GRADING PERMIT
  - REMOVE ALL VEHICLES FROM THE SITE
  - CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE.
  - DEMOLISH EXISTING PAVING AS SHOWN.
  - BEGIN ROUGH GRADING OF THE BUILDING SITE AND PARKING LOT.
  - STABILIZE GRADED AREAS AS BY SEEDING AND PLANTING ADDITIONAL VEGETATION.
  - CONSTRUCT PROPOSED RETAINING WALLS.
  - FINALIZE GRADING AND STABILIZATION OF THE SLOPES.
  - PROVIDE A BERM AROUND THE EXCAVATION OF BIORETENTION TO MINIMIZE THE CONTAMINATION OF UNDERLYING STONES AND PLACE THE BIORETENTION MATERIAL FILL.
  - PLACE FILL AND SUBGRADE TO STABILIZE THE NEW GROUND.
  - GRADE PARKING LOT TO FINISHED GRADE.
  - INSTALL ASPHALT CONCRETE BASE COURSE AND ASPHALT CONCRETE SURFACE COURSE.
  - STABILIZED ALL UNSTABILIZED AREAS AS BY SEEDING AND PLANTING ADDITIONAL VEGETATION.
  - CONSTRUCT BIO-RETENTION FACILITY.
  - ONCE THE SITE IS STABILIZED AND APPROVAL IS OBTAINED, REMOVE ALL REMAINING EROSION AND SEDIMENT CONTROL MEASURES.

**CAC ZONE SETBACK REQUIREMENTS:**

LOCATION	REQUIRED	PROVIDED
FRONT	0,0'	15,0' +
SIDES	0,0'	3,0'
REAR	0,0'	310,0' +

SEE SHEET 3

**SITE ANALYSIS:**

TOTAL AREA:	30087 sq-ft.
AREA TO BE DISTURBED:	11250 sq-ft.
EXISTING GRADE:	176'
ZONED:	CAC
PROPOSED:	SIT DOWN RESTAURANT & RETAIL
FLOOR SPACE:	
TENANTS:	1400 SF RESTAURANT, 700 SF SIT DOWN & 700 SF CARRY OUT, PLUS 1594 SF RETAIL
PARKING SPACE REQUIRED:	(700/1000) * 14 + (700/1000) * 7 + (1594/900) * 2 = 23
PARKING SPACE PROVIDED:	28(9*20) INCLUDED 2 HANDICAPP
HANDICAPPED:	2
BUILDING COVERAGE OF SITE:	2994 SQ-FT/9.95%

SEE SHEET 4

**PERMIT INFORMATION CHART**

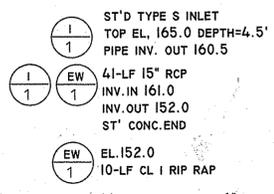
SUBDIVISION NAME	SECTION AREA	LOT/PARCEL NO.
N/A	N/A	377
PLAT # OR L/F	GRID #	ZONING
L 5876 F 0321	10	CAC
TAX MAP NO.	ELECT DISTR	CENSUS TRACT
50	6	606903
WATER CODE	SEWER CODE	
C-05	7103500	
1-W	S-298	

**SHEET INDEX**

SHEET 1-2: SITE DEVELOPMENT PLAN AND LANDSCAPING PLAN

SHEET 3-6: SWM AND LANDSCAPING PLAN

SHEET 7-9: EROSION AND SEDIMENT CONTROL PLAN



**MISS UTILITY**

CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR RESPONSIBLE FOR COMPLIANCE WITH THESE REQUIREMENTS.

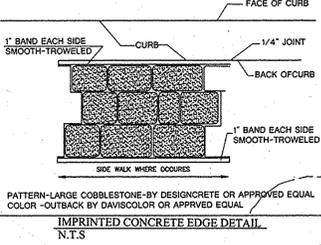
**DEVELOPER'S AGREEMENT**

I CERTIFY THAT LANDSCAPING SHOWN HEREON WILL BE DONE ACCORDING TO THE APPROVED PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. I FURTHER CERTIFY THAT UPON COMPLETION A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

MOLSEN HAGHIGHAT  
DATE: 06-05-12

**REVISION**

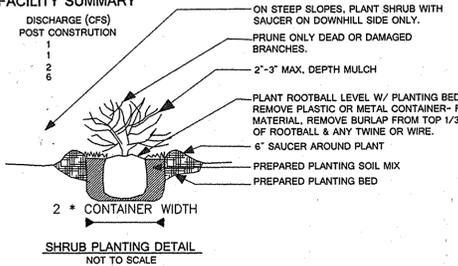
NO.	DESCRIPTION	DATE
1	REDLINE REVISION	11.03.11



THE RETAINING WALL IS NOT TO EXCEED THREE (3) FEET IN HEIGHT AT ANY POINT

**STORMWATER MANAGEMENT FACILITY SUMMARY**

FREQUENCY	EXISTING	DISCHARGE (CFS)	POST CONSTRUCTION
Q1	1	1	1
Q2	2	2	2
Q10	3	3	3
Q100	5	5	5

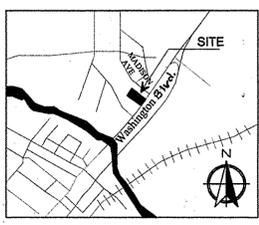


**SCHEDULED STORMWATER MANAGEMENT AREA LANDSCAPING**

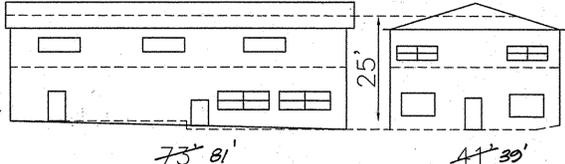
Linear Feet of Perimeter	None
Number of Trees Required	None
Shade Trees	None
Evergreen Trees	None
Credit for Existing Vegetation (No, Yes and %)	None
Credit for Other Landscaping (No, Yes and %)	None
Number of Trees Provided	See Sch .A&B
Shade Trees	
Evergreen Trees	
Other Trees (2:1 substitute)	

FOR BIORETENTION PLANTING SEE SHEET 2

- LEGEND**
- R/W FOR EX. SEWER
  - EXISTING PAVEMENT
  - NEW MCADAM PAVEMENT
  - NEW SIDEWALK
  - PAVEMENT TO BE REMOVED
  - GRASS
  - AMENITY AREA
  - WOOD BENCH
  - NEW TREES
  - SILT FENCE
  - LIMIT OF DISTURBANCE



- GENERAL NOTES**
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.
  - The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410)313-1880 at least five (5) working days prior to the start of work.
  - The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
  - Traffic control devices, markings and signing shall be in accordance with the latest edition of the manual of Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
  - All plan dimension are to face of curb unless otherwise noted.
  - The existing topography is taken from a field run survey with two foot contour intervals prepared by the JE Clark Co. dated June 9, 2003.
  - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System, Howard County Monument Nos. 50BA and 50BS were used for this project.
  - Water is public. Contract No.1-W C-05
  - Sewer is public. Contract S296 C-7103500.
  - Existing Power and telephone utilities are based on observation.
  - The floodplain study for this project was prepared by Applied Civil Engineering and has been approved 7/17/2003.
  - There are no wetlands on this site.
  - The traffic study for this project was prepared by Mars Group, June 2003, and has been approved 09/30/04.
  - There are no ceteries within this project.
  - No clearing, grading or construction is permitted within wetlands, streams, or their required buffers.
  - Perimeter and internal parking lot landscaping shall be provided in accordance with section 16.124 of the landscape manual. Financial surety in the amount of \$ 5200.00, for required shade tree plantings and fencing shall be posted with the developer's agreement.
  - No outside lighting is planned for this development.
  - Handicapped designated spaces shall be provided with a sign prominently displaying the amount of time required by law.
  - This plan is subject to the Amended Fifth Edition of the Subdivision and Land Control which is based upon the Maryland State Plane Coordinate System, Regulations as amended by CB 75-2003.
  - This property is zoned CAC, per the 2/2/2004 Comprehensive Zoning Plan.
  - SWM is addressed by use of a bioretention facility for water quality control. The SWM facility is privately owned and the owner is responsible for the maintenance and its proper operation.
  - This parcel is exempt from forest conservation plan based on article 16.1202(b)(1)(i) of the Forest Conservation Manual.



**DEVELOPER CERTIFICATION**

I/We certify that all development and construction will be done according to the plan, and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of the environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic on inspection by the Howard Soil Conservation District.

MolSEN Haghighat  
06-07-2012  
Signature of Developer  
MOLSEN HAGHIGHAT

**ENGINEER'S CERTIFICATION**

I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site condition and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer  
ZUB SHALABI, P.E.

This Plan is Approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District

John K. Blanton 6/19/12  
Approved: HSD

**APPROVED:** DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division J.P. 6/27/12  
DATE

Chief, Division of Land Development B.S. 7/23/12  
DATE

Director M.A. 7/23/12  
DATE

**DESIGNED:** ZIAD SHALABI P.E.  
DATE: 05/18/2011

**DRAWN:** REZA MABADI  
DATE: 05/24/2011

**CHECKED:** DATE: 07/21/2015 ZS Revised Day Entrance, Parking Lots & Building

**APPROVED:** DATE:

**APPLIED CIVIL ENGINEERING INC.**

ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT & PERMIT PROCESSING

9470 ANNAPOLIS ROAD, SUITE 414  
LANHAM, MARYLAND 20706  
TEL. (301) 459-5932

**OWNER/APPLICANT/DEVELOPER**

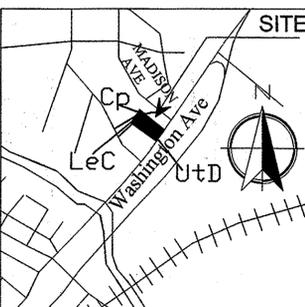
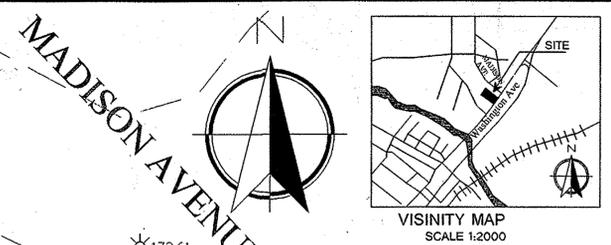
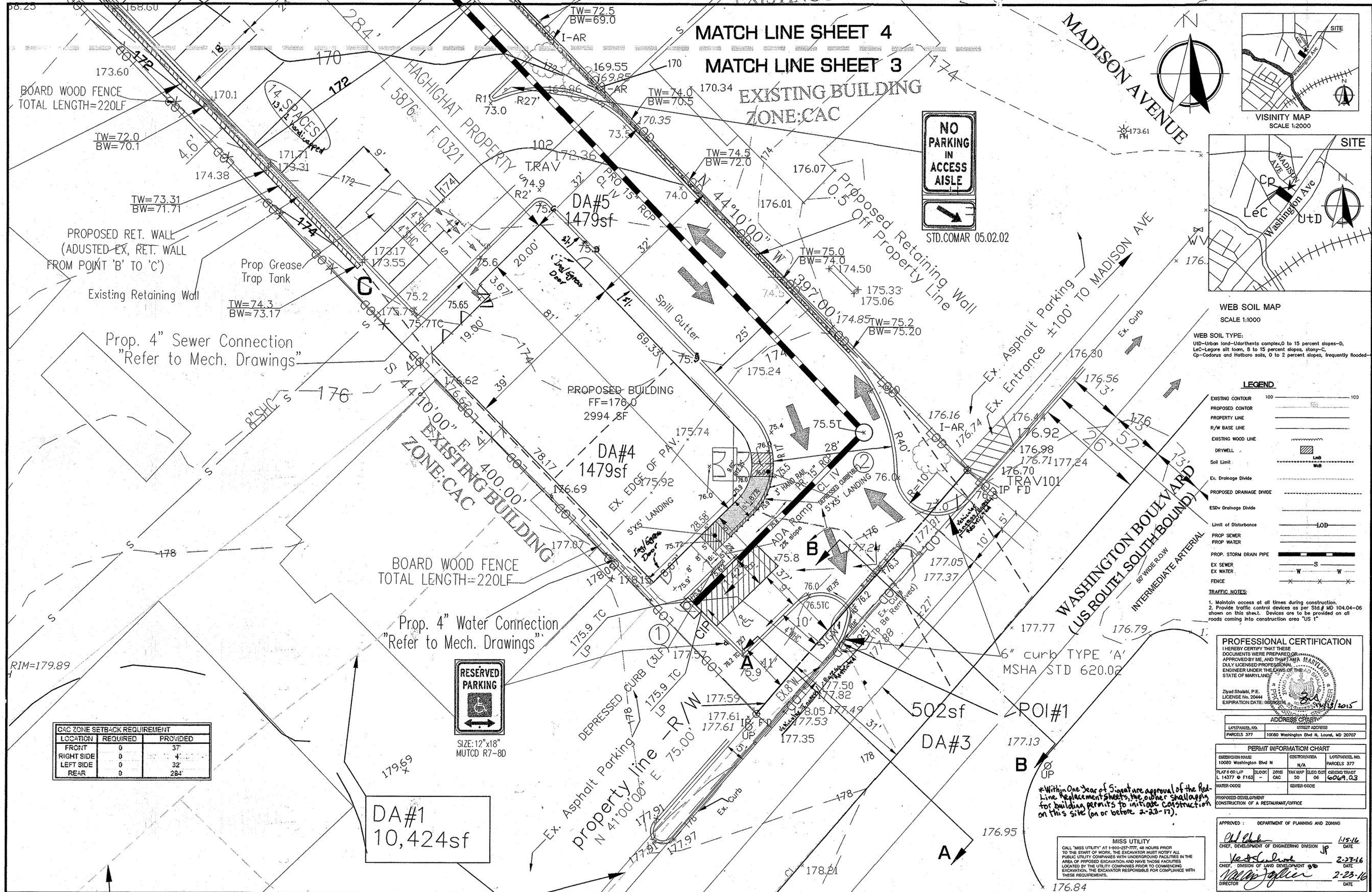
MOLSEN HAGHIGHAT  
324 CARROLL AVE.  
LAUREL, MD, 20707  
(301)206 3204

**SITE DEVELOPMENT PLAN**  
10080 WASHINGTON BLVD.  
MOLSEN HAGHIGHAT PROPERTY  
RESTAURANT & RETAIL BUILDING OFFICE BUILDING  
TAX MAP 50, GRID 10, PARCEL 377 L5876 F0321  
ELECTION DISTRICT NO.6, HOWARD COUNTY, MARYLAND  
SDP-03-132

SCALE: 1"=20'

CONTRACT No.: CONT SHEET 1 OF 2





**WEB SOIL MAP**  
SCALE 1:1000

**WEB SOIL TYPE:**  
U0-Urban land-Urthents complex, 0 to 15 percent slopes-0  
Lc-Legume silt loam, 5 to 15 percent slopes, stony-C  
Cp-Codorus and Harboro soils, 0 to 2 percent slopes, frequently flooded

**LEGEND**

EXISTING CONTOUR	100
PROPOSED CONTOUR	
PROPERTY LINE	
R/W BASE LINE	
EXISTING WOOD LINE	
DRYWELL	
Soil Limit	
Ex. Drainage Divide	
PROPOSED DRAINAGE DIVIDE	
ESDv Drainage Divide	
Limit of Disturbance	LOD
PROP SEWER	
PROP WATER	
PROP. STORM DRAIN PIPE	
EX SEWER	S
EX WATER	W
FENCE	X X X

**TRAFFIC NOTES:**

- Maintain access at all times during construction.
- Provide traffic control devices as per Std. # MD 104.04-06 shown on this sheet. Devices are to be provided on all roads coming into construction area "US 1"

**PROFESSIONAL CERTIFICATION**

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

Zyad Shalabi, P.E.  
LICENSE No. 20444  
EXPIRATION DATE: 06/30/2015

**ADDRESS CHART**

LOT/PARCEL NO.	STREET ADDRESS
PARCELS 377	10080 Washington Blvd N, Laurel, MD 20707

**PERMIT INFORMATION CHART**

SECTION NAME	SECTION NUMBER	LOT/PARCEL NO.
10080 Washington Blvd N	N/A	PARCELS 377
PLAT & OR LIP	BLOCK	ZONE
L 14377 & F163	CAC	50 06
GRIDED TRACT		6069.03
WATER CODE		
SERIES CODE		

**APPROVED:** DEPARTMENT OF PLANNING AND ZONING

*[Signature]*  
CHIEF, DEVELOPMENT OF ENGINEERING DIVISION JP 1/5/11 DATE

*[Signature]*  
CHIEF, DIVISION OF LAND DEVELOPMENT 2-23-16 DATE

*[Signature]*  
DIRECTOR 2-23-16 DATE

**CAC ZONE SETBACK REQUIREMENT**

LOCATION	REQUIRED	PROVIDED
FRONT	0	37'
RIGHT SIDE	0	4'
LEFT SIDE	0	32'
REAR	0	284'



**DESIGNED:** ZYAD SHALABI P.E.  
DATE: 05/18/2011

**DRAWN:** REZA MABADI  
DATE: 05/24/2011

**CHECKED:**  
DATE:

**APPROVED:**  
DATE:

**REVISIONS**

NO.	DATE	BY	REVISION
1	April 23, 14	MS	As per SHA
2	March 10, 15	MS	As per SHA
3	07/21/2017	ZS	REVISED DRIVE WAY ENTRANCE, PARKING LOTS AND BUILDING

**APPLIED CIVIL ENGINEERING INC.**

ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT & PERMIT PROCESSING

9470 ANNAPOLIS ROAD, SUITE 414  
LANHAM, MARYLAND 20706  
TEL. (301) 459-5932

**OWNER/APPLICANT/DEVELOPER**

MOLSEN HAGHIGHAT

324 CARROLL AVE.  
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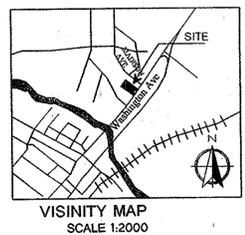
**STORM WATER MANAGEMENT PLAN**  
10080 WASHINGTON BLVD.  
MOLSEN HAGHIGHAT PROPERTY  
RESTAURANT & OFFICE BUILDING  
TAX MAP 50, GRID 10, PARCEL 377 L5876 F0321  
ELECTION DISTRICT NO.6, HOWARD COUNTY, MARYLAND  
SDP-03-132

SCALE: 1"=10'  
CONTRACT No.: CONT  
SHEET 3 OF 9

REVOCABLE TRUST  
L 2179 F 734  
ZONED R-5C  
PA72

SITE ANALYSIS	
TOTAL AREA	30087 SF
AREA TO BE DISTURBED	24012 SF
ZONED	CAC
PROPOSED	RESTURANT STANDARD & OFFICES, PROFESSIONAL & BUSINESS
FLOW SPACE	2994 SF
SECOND Floor	storage
TENANTS	1400 SF RESTURANT (700SF SIT DOWN, 700 SF CARRY OUT) PLUS 1594 SF OFFICE (700/1000)X14+(700/1000)X6+(1594/1000)X3=10,456=21
PARKING SPACE REQUIRED	24(9'X20')+1 HANDICAPP=25
PARKING SPACE PROVIDED	1
HANDICAPPED	1
BUILDING COVERAGE OF SITE	2994 SF - 9.95%

- GENERAL NOTES
- The proposed entrance construction will be under the supervision of the SHA District 7 Utility/Access Management Inspection office in lieu of Howard County DPW. An SHA access Permit will be required.
  - All plan dimension are to face of curb unless otherwise noted.
  - The existing topography is taken from a field run survey with two foot contour intervals prepared by the JE Clark Co. dated June 9, 2003.
  - The coordinates shown hereon are based upon the Howard County Geodetic Control which is based upon the Maryland State Plane Coordinate System, Howard County Monument Nos. 50BA and 50BS were used for this project.
  - Water is public, contract No. 1-W-93-03
  - Sewer is public, contract S296 C-7103500.
  - Existing Power and telephone utilities are based on observation.
  - The traffic study for this project was prepared by Mars Group, June 2003, and has been approved 09/30/04.
  - No clearing, grading or construction is permitted within wetlands, streams, or their required buffers WITHOUT REQUIRED PERMIT.
  - Perimeter and internal parking lot landscaping shall be provided in accordance with the approved on-site landscape plan.
  - On-site lighting is as per the approved site plan.
  - Handicapped designated spaces shall be provided with a sign prominently displaying the amount of line required by law.
  - This plan is subject to the Amended Fifth Edition of the Subdivision and Land Development regulations per council Bill 45-2003 and the Zoning Regulations as amended by CB 75-2003.
  - This property is zoned CAC, per the 2/2/2004 Comprehensive Zoning Plan.
  - This SWM facility is privately owned and the owner is responsible for the maintenance and its proper operation.
  - This permit is exempt from forest conservation plan based on article 16.1202(b)(1) of the Forest Conservation Manual.
  - When driveway is constructed, the existing 5' white edge line shall be replaced.



CONSTRUCTION NOTES

- ALL ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATION FOR STATE HIGHWAY ADMINISTRATION.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT UTILITY CROSSING WELL IN ADVANCE OF TRENCHING. IF CLEARANCE TO WATER AND SEWER LINES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, CONTACT THE DEPARTMENT OF ENVIRONMENTAL RESOURCES BEFORE PROCEEDING WITH CONSTRUCTION.
- POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL INTERSECTIONS AND IN ALL DISTURBED AREAS
- ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SOODED.
- ALL CURB AND GUTTER SHALL BE IN ACCORDANCE WITH SHA STANDARDS 620-02.
- IT SHALL BE THE RESPONSIBILITY OF THE PERMITEE TO ARRANGE FOR THE ADJUSTMENTS OF ALL UTILITIES.
- CALL "MISS UTILITY" 1-800-257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTIONS.
- ALL UNSUITABLE MATERIAL MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND/OR THE DPW&T INSPECTOR.
- TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE MARYLAND EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- WHERE IT IS NECESSARY TO CONNECT TO OR TO EXTEND AN EXISTING ROAD, THEN SAW CUT EXISTING EDGE OF PAVEMENT, MILL AND OVERLAY AT POINT OF TIE-IN TO ENSURE SMOOTH TRANSITION AND POSITIVE DRAINAGE.
- IN AREAS OF NEW CURB WHERE AN EXISTING ASPHALT IS PRESENT, THE CONTRACTOR SHALL DO THE FOLLOWING:
  - SAW CUT EDGE A MINIMUM OF 1" FROM EDGE OF PROPOSED CURB INTO EXISTING PAVEMENT TO SET STRAIGHT EDGE
  - PLACE ASPHALT FOR FULL WIDENING (BASE COURSE ONLY)
  - MILL ADDITIONAL 1" INTO EXISTING SURFACE FOR DEPTH OF FINAL SURFACE COURSE.
  - PLACE ASPHALT FOR FULL WIDENING PLUS THIS ADDITIONAL 1" INTO EXISTING SURFACE (FINAL SURFACE COURSE)

SOIL BORING @ BIORETENTION GROUND EL. 165.0'				
soil boring#	soil horizon	depth ft	soil description - USDA CLASSIFICATION & MUNSELL CHART	Texture group
	A	0-1.1	Dark brown top soil with roots moist with organic material	
	BT	1.1-1.8	brownish silty loam dry	II
SB	C1	1.8-5	yellowish brown silty clay loam traces of sand moderately friable	III
	C2	5-9.5	pale yellow sandy clay loam moist slightly sticky, moderately friable	III
		10	boring terminated @ 10' dry; no water table.	

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

Zyad Shabbi, P.E.  
LICENSE No. 20444  
EXPIRATION DATE: 05/09/2016

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Ad Chel*  
CHIEF, DEVELOPMENT OF ENGINEERING DIVISION JP 1/24/16 DATE

*Wahid Vatsal*  
CHIEF, DIVISION OF LAND DEVELOPMENT 2-23-16 DATE

*Valdine*  
DIRECTOR 2-23-16 DATE

LEGEND

EXISTING CONTOUR	100	100
PROPOSED CONTOUR	---	---
PROPERTY LINE	---	---
R/W BASE LINE	---	---
EXISTING WOOD LINE	---	---
DRYWELL	---	---
Soil Limit	---	---
Ex. Drainage Divide	---	---
PROPOSED DRAINAGE DIVIDE	---	---
ESDv Drainage Divide	---	---
Limit of Disturbance	---	---
PROP. SEWER	---	---
PROP. WATER	---	---
PROP. STORM DRAIN PIPE	---	---
EX. SEWER	---	---
EX. WATER	---	---
FENCE	---	---
SOIL BORING	SB#1	---

PROPOSED RET. WALL  
6" perforated HDPE under drains

EX. RET. WALL  
MAINTAIN FROM POINT 'A' TO 'B'  
ADJUST FROM POINT 'B' TO 'C'  
AS SHOWN.

PLANT LIST - LANDSCAPE BIORETENTION

Type	Symbol	Qty.	Botanical / Common Name	Height	Spacing	Remarks	Bloom	Color	Growth Hgt.	SunType	Soils	Comments	Pricing
Trees	H	1	Ilex opaca / American Holly	4'	n/a	container	n/a	Red berries	30'	versatile	versatile		
Shrubs	E	3	Euonymus alatus / Burning Bush	3'	6'-8'	container	Fall	Red	6'-8'	Full/Partial	versatile		
	BB	2	Cephalanthus occidentalis / Button Bush	12'-18'	3'	container	Summer	white	3-10'	vers	medium wet	Low maintenance	
	R	2	ROSA / Barzazz knock-out rose	12'-18'	3'-6'	container	Spring-Fall	Red	4'	Sun/Pr.	ade		
Grasses	L	27	Liriope spicata	12"	3'	container	Summer	Red	12"	Sun/S	de	Evergreen groundcover	

DESIGNED: ZYAD SHABBI, P.E.  
DATE: 06/19/2016

DRAWN: REZA MABADI  
DATE: 06/24/2016

CHECKED: DATE:

APPROVED: DATE:

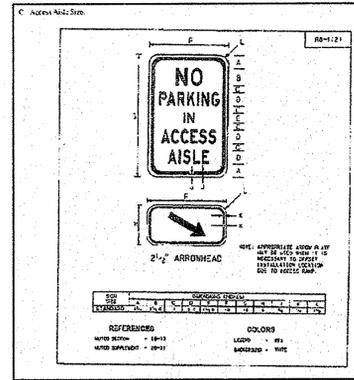
REVISIONS			
NO.	DATE	BY	REVISIONS
1	As per SHA	MS	As per SHA
2	As per SHA	MS	As per SHA
3	07/21/2015	ZS	REVISED DRIVE WAY ENTRANCE, PARKING LOTS AND BUILDING

APPLIED CIVIL ENGINEERING INC.  
ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT & PERMIT PROCESSING  
9470 ANNAPOLIS ROAD, SUITE 414  
LANHAM, MARYLAND 20706  
TEL. (301) 459-5932

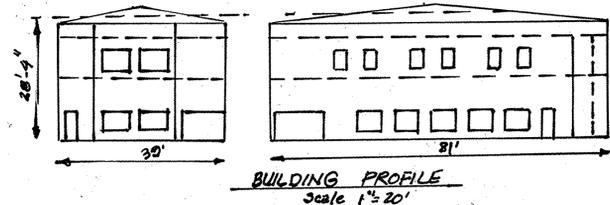
OWNER/APPLICANT/DEVELOPER  
MOLSEN HAGHIGHAT  
324 CARROLL AVE.  
LAUREL, MD, 20707  
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STORMWATER MANAGEMENT PLAN  
10080 WASHINGTON BLVD.  
MOLSEN HAGHIGHAT PROPERTY  
RESTAURANT & OFFICE BUILDING  
TAX MAP 50, GRID10, PARCEL377 L5876 F0321  
ELECTION DISTRICT NO.6, HOWARD COUNTY, MARYLAND  
SDP-03-132

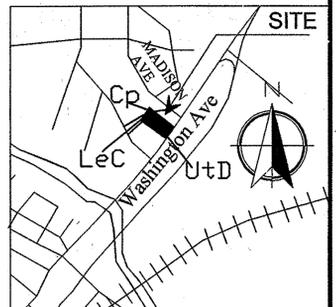
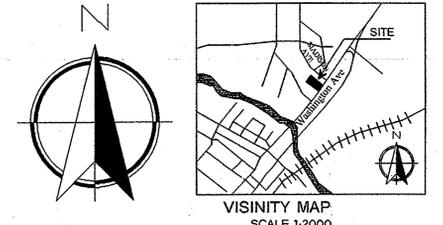
SCALE: 1"=10'  
CONTRACT No.: CONT  
SHEET 4 OF 9



ACCESS AISLE SIGN  
STD. COMAR 05.02.02  
NOT TO SCALE



BUILDING PROFILE  
Scale 1"=20'



WEB SOIL MAP  
SCALE 1:1000

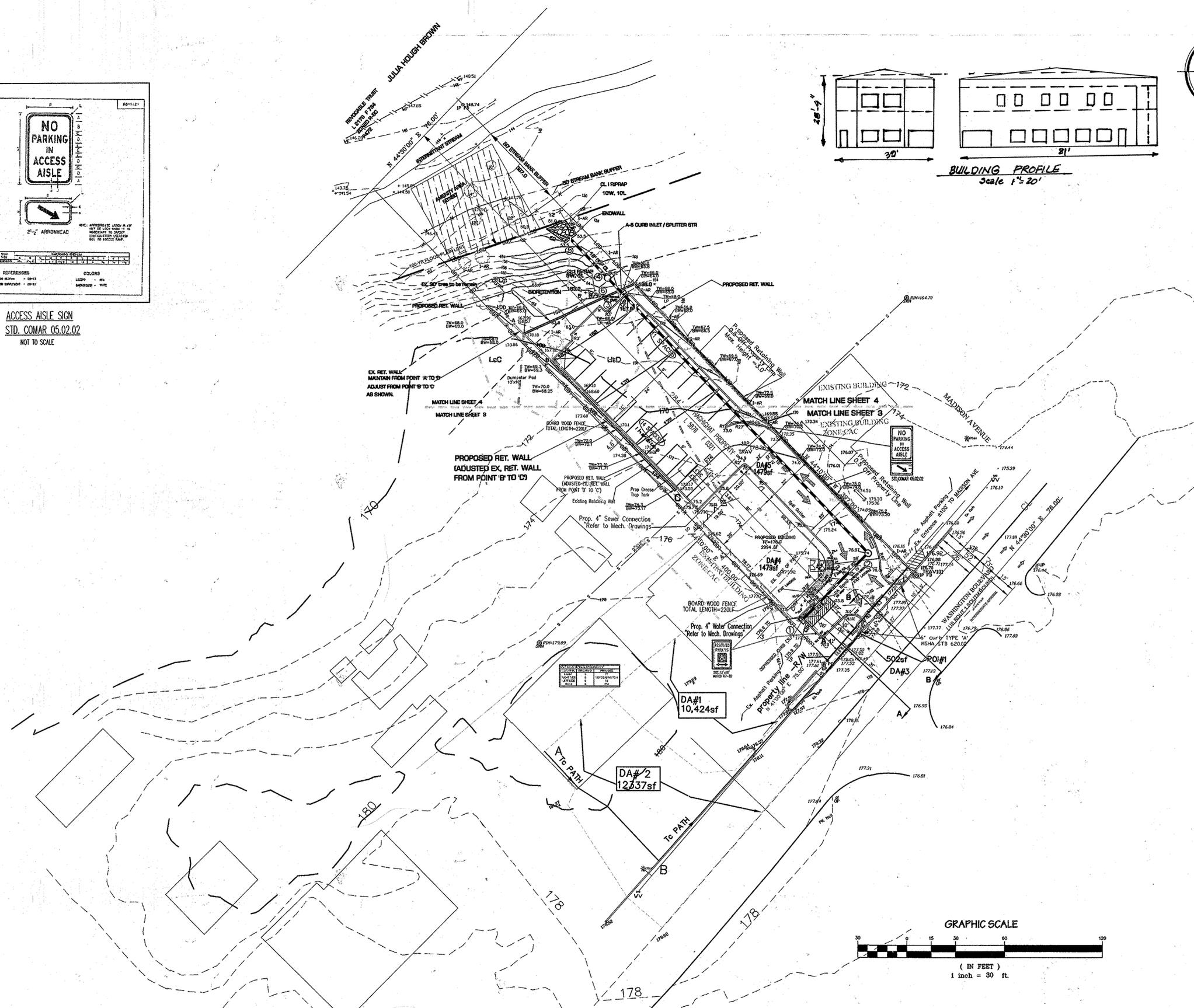
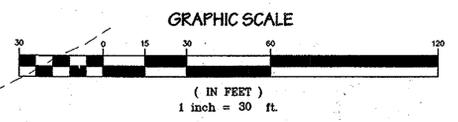
WEB SOIL TYPE:  
UID-Urban land-Urthents complex, 0 to 15 percent slopes-D,  
LeC-Legere silt loam, 8 to 15 percent slopes, stony-C,  
Cp-Codorus and Harbor soils, 0 to 2 percent slopes, frequently flooded

LEGEND

- EXISTING CONTOUR 100
- PROPOSED CONTOUR
- PROPERTY LINE
- R/W BASE LINE
- EXISTING WOOD LINE
- DRYWELL
- Soil Limit
- Ex. Drainage Divide
- PROPOSED DRAINAGE DIVIDE
- ESDv Drainage Divide
- Limit of Disturbance LOD
- PROP SEWER
- PROP WATER
- PROP. STORM DRAIN PIPE
- EX SEWER
- EX WATER
- FENCE

PROFESSIONAL CERTIFICATION  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
Zyad Shalabi, P.E.  
LICENSE No. 20444  
EXPIRATION DATE: 06/09/2016

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
Chief, Development of Engineering Division  
Chief, Division of Land Development  
Director

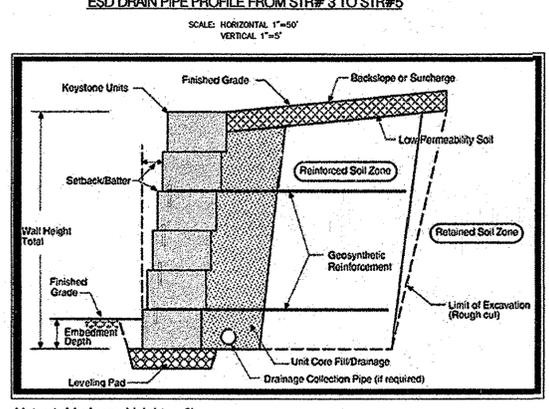
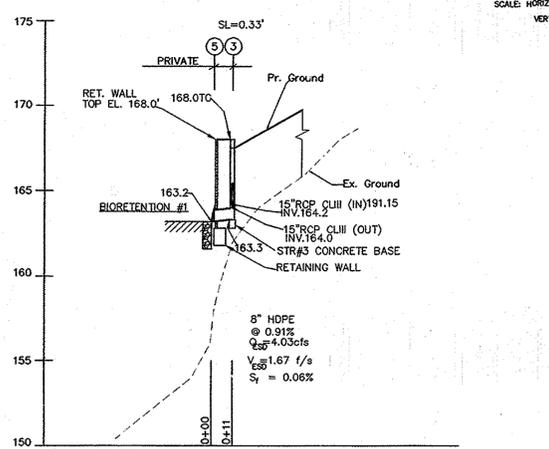
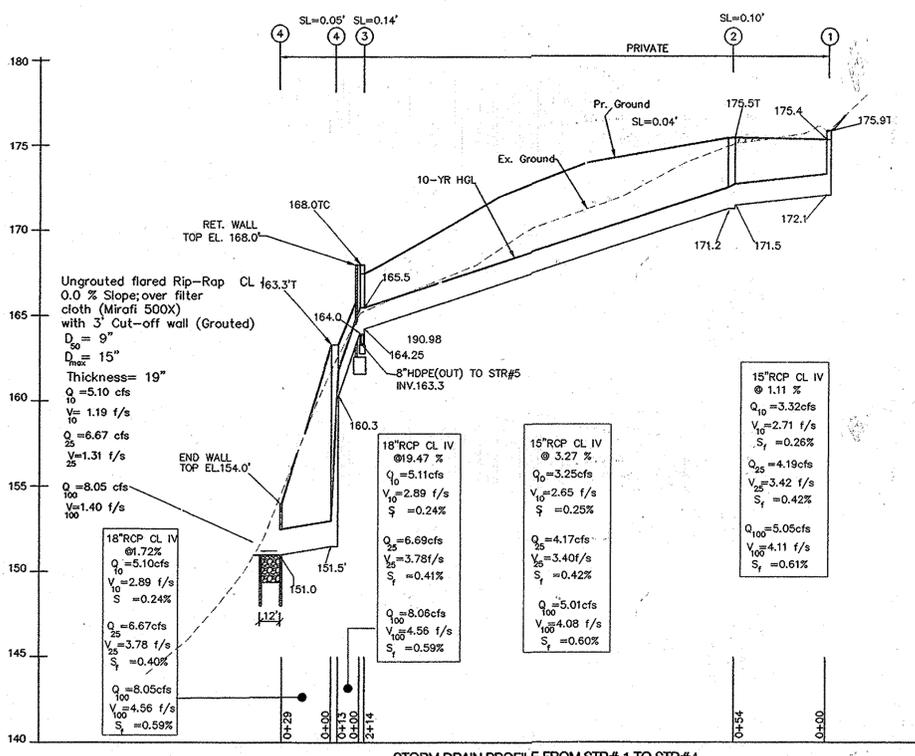


DESIGNED:		DATE		BY		REVISIONS	
ZIAD SHALABI PE		06/07/2011		MS		As per SHA	
DRAWN:		05/24/2011		MS		As per SHA	
CHECKED:		07/21/2017		ZS		REVISED DRIVE WAY ENTRANCE, PARKING LOTS AND BUILDING	
APPROVED:							

**APPLIED CIVIL ENGINEERING INC.**  
ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT & PERMIT PROCESSING  
9470 ANNAPOLIS ROAD, SUITE 414  
LANHAM, MARYLAND 20706  
TEL. (301) 459-5932

OWNER/APPLICANT/DEVELOPER  
**MOLSEN HAGHIGHAT**  
324 CARROLL AVE.  
LAUREL, MD, 20707  
(301)206 3204

DRAINAGE AREA MAP  
10080 WASHINGTON BLVD.  
**MOLSEN HAGHIGHAT PROPERTY**  
RESTAURANT & OFFICE BUILDING  
TAX MAP 50, GRID10, PARCEL377 L5876 F0321  
ELECTION DISTRICT NO.6, HOWARD COUNTY, MARYLAND  
SDP-03-132



Note: 1. Maximum Height = 3'  
2. Construction shall be per the manufacturer's specifications.

**Table B.3.2 Materials Specifications for Bioretention**

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific
standing soil (2.5' to 4' deep)	silt 35 - 60% clay 10 - 25%	n/a	USDA soil types loamy sand, sandy loam or loam
mulch	shredded hardwood	n/a	aged 6 months, minimum
pea gravel diaphragm and curtain drain	pea gravel: ASTM-D-448	pea gravel: No. 6 stones: 2" to 5"	
geotextile	Class "C" - apparent opening size (ASTM-D-4751), grab tensile strength (ASTM-D-4632), puncture resistance (ASTM-D-4833)	n/a	for use as necessary beneath underdrains only
underdrain gravel	AASHTO M-43	0.375" to 0.75"	
underdrain piping	F 751, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	3/8" perf. @ 6" on center, 4 holes per row, minimum of 3" of gravel over pipe; not necessary underneath pipes
pour in place concrete (if required)	MSHA Mex No. 3; f'c = 3500 psi at 28 days, normal weight, air-entrained; reinforcing to meet ASTM-A-615-G9	n/a	28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 330.8/8.9; vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressures); and analysis of potential cracking
sand (1' deep)	AASHTO M-66 or ASTM-C-33	0.075" to 0.04"	Sand substitutions such as Diabase and Gneiss #10 are not acceptable. No calcium carbonate or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

**STRUCTURE SCHEDULE**

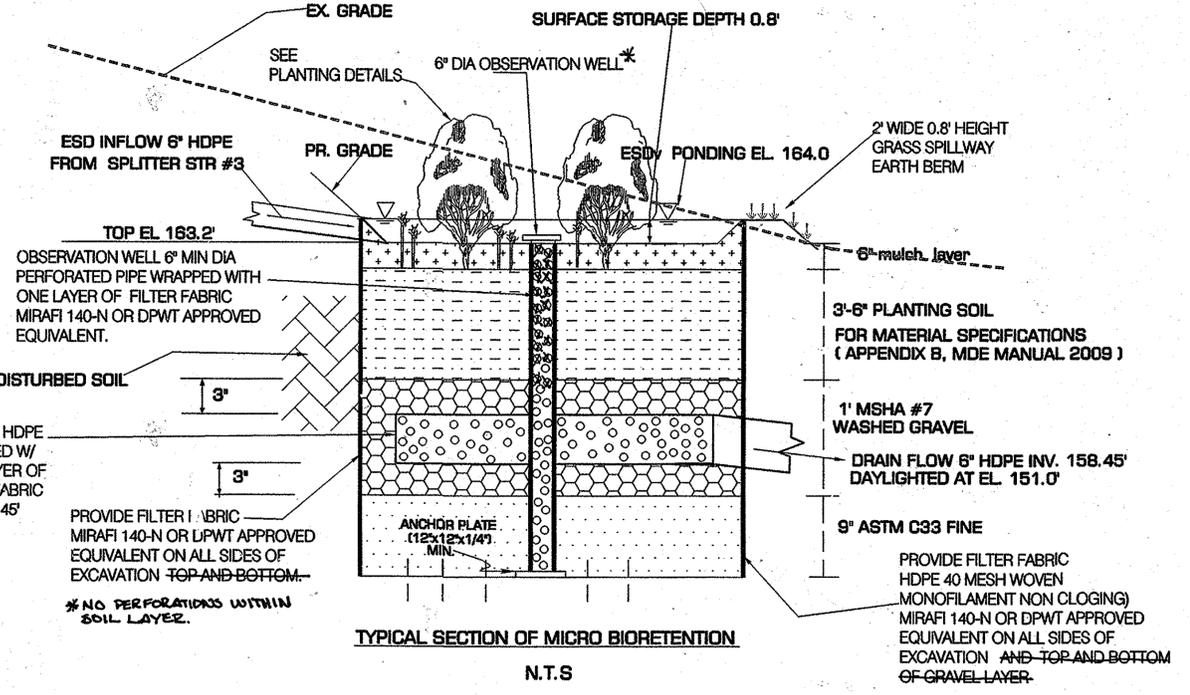
No.	TYPE	WIDTH (D)	TOP ELEV.		INV. ELEV.	STANDARD DETAIL
			UPPER	LOWER		
1	A-S	2.5'	175.9	175.9	172.1	D-4.01
2	MH	4'DIA	175.5'	175.5'	171.2'	G-9.05
*3	A-S	3.5'	168.0'	168.0'	163.3	D-4.01
4	MH	4'DIA	163.3'	163.3'	151.1'	G-9.05
**5	END WALL	15" DIA	154.0'	154.0'	151.0'	D-5.21
6	END SECTION	8" DIA	-	-	163.2'	NYLOPLAST STD.

**PIPE SCHEDULE**

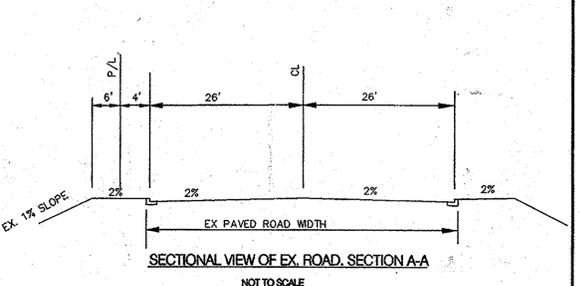
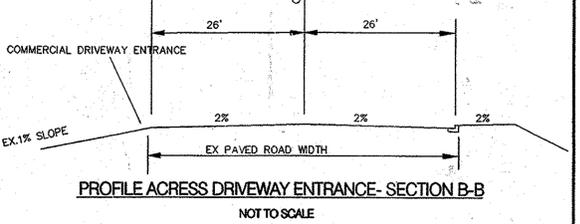
FROM	TO	SIZE	TYPE	LENGTH	
					BY
PRIVATE	1	2	15"	RCP CLASS IV	54'
	2	3	15"	RCP CLASS IV	214'
	3	4	18"	RCP CLASS IV	13'
	4	5	18"	RCP CLASS III	29'
	5	6	8"	HDPE	11'

**PIPE SUMMARY**

BY	SIZE	TYPE	LENGTH
PRIVATE	15"	RCP CLASS IV	268'
	18"	RCP CLASS IV	13'
	18"	RCP CLASS III	29'
	8"	HDPE	11'



- GENERAL STORM DRAIN AND PAVING NOTES**
- ALL ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY CODE AND THE HOWARD COUNTY DEPARTMENT OF TRANSPORTATION STANDARD AND SPECIFICATION, THE HOWARD COUNTY CODE, THE HOWARD COUNTY ORDINANCE AND HOWARD COUNTY POLICY AND SPECIFICATION FOR UTILITY INSTALLATION AND MAINTENANCE PERMIT.
  - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT UTILITY CROSSING WELL IN ADVANCE OF TRENCHING. IF CLEARANCE TO WATER AND SEWER LINES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, CONTACT THE HOWARD COUNTY INSPECTOR BEFORE PROCEEDING WITH CONSTRUCTION.
  - ALL ELEVATIONS SHOWN ON THESE PLANS USE NAD 83/91 FOR THE HORIZONTAL DATUM AND NGVD 1929 FOR THE VERTICAL DATUM.
  - ALL ROADWAY FILLET RADII SHALL BE 37 FEET, UNLESS OTHERWISE NOTED.
  - POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE AREA COVERED BY THE PERMIT THROUGH ADJACENT PROPERTY FRONTAGES.
  - ALL UNPAVED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SODED.
  - ALL CURB AND GUTTER SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD.
  - ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY STANDARD AND IN ACCORDANCE WITH THE LATEST REVISION TO THE AMERICAN WITH DISABILITIES ACT (ADA).
  - PROVIDE SIDEWALK RAMPS AT LOCATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH ADA.
  - NO PAVEMENT COURSE MAY BE PLACED UNTIL THE UNDERLYING COURSE OR SUBGRADE IS APPROVED BY THE DP&T INSPECTOR PRIOR TO PAVING. THE APPROVAL MAY EXPIRE IF TRAFFIC OR INCLEMENT WEATHER AFFECTS THE SITE PRIOR TO PAVING.
  - UNDERDRAIN SYSTEM IS REQUIRED FOR THE FULL LENGTH ON BOTH SIDES OF ALL PROPOSED AND MODIFIED ROADWAYS FOR THE LIMITS OF THE PERMIT.
  - PRIOR TO STARTING ANY WORK SHOWN ON THIS PLAN, THE PERMITTEE SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE HOWARD COUNTY INSPECTOR.
  - ALL SIDEWALKS (EXCEPT AS NOTED HEREIN) ARE TO BE CONSTRUCTED BY THE:
    - x SITE DEVELOPER
    - o HOMEOWNER
  - SIDEWALKS ALONG FRONTAGES OF OPEN-SPACE PARCELS AND THOSE NOT COVERED BY A SINGLE-FAMILY BUILDING PERMIT SHALL BE CONSTRUCTED UNDER THIS STREET CONSTRUCTION PERMIT.
  - ALL DRIVEWAY APRONS ARE TO BE CONSTRUCTED BY THE:
    - x SITE DEVELOPER
    - o HOMEOWNER
  - IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO ARRANGE FOR THE ADJUSTMENTS OF ALL UTILITIES.
  - THE PERMITTEE WILL BE REQUIRED TO FURNISH COMPACTION REPORTS MADE BY GEOTECHNICAL ENGINEER ON EACH LAYER OF FILL MATERIAL PRIOR TO PLACING SUBSEQUENT LAYERS.
  - PERMITTEE SHALL SUBMIT PROPERTY CORNER CERTIFICATIONS AND UTILIZE METAL PROPERTY MARKERS PER PRINCE GEORGE'S COUNTY CODE PRIOR TO ACCEPTANCE OF STREETS.
  - CALL "MISS UTILITY" 1-800-257-7777 FOR UTILITY LOCATION AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTIONS.
  - NO EXCAVATION OR FILL MATERIAL TO BE PLACED UNLESS IT IS DONE UNDER THE SUPERVISION OF A MARYLAND LICENSED PROFESSIONAL SOIL ENGINEER.
  - THE WIDTH OF RESIDENTIAL DRIVEWAY APRONS AT THE PROPERTY LINE SHALL NOT BE LESS THAN THE WIDTH OF THE ON-SITE PARKING PAD AT ITS WIDEST POINT, MAXIMUM WIDTH OF TWENTY FEET (20') AND A MINIMUM WIDTH OF TEN FEET (10'). RESIDENTIAL DRIVEWAY APRON FLARE MAY NOT BE CONSTRUCTED CLOSER THAN THREE AND ONE-HALF (3.5) FEET TO THE NEAREST ABUTTING PROPERTY LINE.
  - ALL UNSUITABLE MATERIAL MUST BE REMOVED AND REPLACED WITH SUITABLE MATERIAL TO A DEPTH AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND/OR THE HOWARD COUNTY INSPECTOR.
  - WITH THE HOWARD COUNTY INSPECTOR'S APPROVAL, THE BASE COURSE SHALL BE IMMEDIATELY SEALED WITH INTERMEDIATE COURSE PROPERLY APPLIED OVER IT.
  - ALL STORM DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE STORMWATER STANDARDS AND SPECIFICATION OF HOWARD COUNTY DEPT. OF ENVIRONMENTAL RESOURCES
  - BRICK CHANNELIZATION IN ALL PUBLIC DP&T STORM DRAIN STRUCTURES IS REQUIRED. CONCRETE CHANNELIZATION IS NOT ALLOWED.
  - FOR TYPES OF STRUCTURES REFER TO THE LATEST STANDARD DETAILS OF HOWARD COUNTY COUNTY UNLESS OTHERWISE NOTED.
  - TEMPORARY TRAFFIC CONTROL AND PERMANENT TRAFFIC SIGNS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
  - WHERE ROADWAY CONSTRUCTION IS ON OR IN THE VICINITY OF AN EXISTING ROAD, IN-BOND PAVEMENT MARKING AND STRIPING REPLACEMENT (EG. THERMOPLASTIC, PAINTED, ETC.) IS REQUIRED. ALSO, APPROPRIATE MARKING AND STRIPING SHALL BE PROVIDED IN THE AREA OF PAVEMENT WIDENING AND/OR RECONSTRUCTION AND/OR OVERLAY OF AN EXISTING ROAD.
  - SAW CUT EXISTING EDGE OF PAVEMENT WHERE IT IS NECESSARY TO CONNECT TO OR TO EXTEND AN EXISTING ROAD. MILL AND OVERLAY AT POINT OF TIE-IN TO ENSURE SMOOTH TRANSITION AND POSITIVE DRAINAGE.
  - WHERE IT IS NECESSARY TO WIDEN AN EXISTING ROAD, THE FOLLOWING EDGE TREATMENT SHALL BE USED AT PROPOSED WIDENING OF EXISTING ROAD:
    - SAW CUT EDGE OF EXISTING PAVEMENT TO SET STRAIGHT EDGE
    - PLACE APPROVED SUB-GRADE AND SUB-BASE FOR FULL WIDENING
    - PLACE ASPHALT FOR FULL WIDENING (BASE COURSE ONLY)
    - MILL ADDITIONAL 1" MINIMUM INTO EXISTING SURFACE FOR FULL DEPTH OF FINAL SURFACE COURSE (MILLING MUST REMOVE EXISTING WHITE STRIPE AT EDGE OF EXISTING ROAD). LIMITS OF MILLING MAY BE EXTENDED IF NECESSARY.
    - PLACE ASPHALT FOR FULL WIDENING PLUS THIS ADDITIONAL 1" INTO EXISTING SURFACE (FINAL SURFACE COURSE)
  - IN ACCORDANCE WITH THE COUNTY ROAD ORDINANCE, A PROJECT SIGN SHALL BE POSTED PROMINENTLY DESCRIBING THE FOLLOWING:
    - SUBDIVISION NAME: MOLSEN HIGHTHAT PROPERTY
    - OWNER/PERMITTEE:
    - OWNER/PERMITTEE ADDRESS:
    - HOWARD COUNTY PERMIT NUMBER:



**MILLING DETAIL**  
NOT TO SCALE

**PROFESSIONAL CERTIFICATION**  
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME OR THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

Zsolt Szabó P.E.  
LICENSE NO. 20444  
EXPIRATION DATE: 06/30/2016

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
DATE: 03/20/2015

DESIGNED BY: TB  
DATE: 03/20/2015

DRAWN BY: TB  
DATE: 03/20/2015

CHECKED BY: ZS  
DATE: 03/20/2015

APPROVED BY: ZS  
DATE: 03/20/2015

**REVISIONS**

DATE	BY	REVISION
April 23, 14	MS	As per SHA
March 10, 15	MS	As per SHA
07/21/2015	ZS	REVISED DRIVE WAY ENTRANCE, PARKING LOTS AND BUILDING

**APPLIED CIVIL ENGINEERING INC.**  
ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT & PERMIT PROCESSING  
9470 ANNAPOLIS ROAD, SUITE 414  
LANHAM, MARYLAND 20706  
TEL. (301) 459-5932

**OWNER/APPLICANT/DEVELOPER**  
MOLSEN HIGHTHAT  
324 CARROLL AVE.  
LAUREL, MD, 20707  
(301)206 3204

**STORMWATER MANAGEMENT TECHNICAL PLAN.**  
10080 WASHINGTON BLVD.  
**MOLSEN HIGHTHAT PROPERTY**  
RESTAURANT & OFFICE BUILDING  
TAX MAP 50, GRID10, PARCEL377 L5876 F0821  
ELECTION DISTRICT NO.6, HOWARD COUNTY, MARYLAND  
SDP-03-132

SCALE: AS SHOWN  
CONTRACT No.: 13-05  
SHEET 6 OF SHEET OF 9

SEQUENCE OF CONSTRUCTION

INITIAL CONSTRUCTION

1) Arrange a pre-construction meeting with Howard Co. inspector. 1 Day

NOTE: The owner/developer or representative shall obtain written inspection approvals by the Inspector  
 (i) Prior to the start of earth disturbance;  
 (ii) Upon completion of installation of tree protection devices, followed by the installation of perimeter erosion and sediment controls, prior to proceeding with any other earth disturbance or grading.  
 Other building or grading inspection approvals may not be authorized until initial approval by the Inspector is made;

2) Install SCE on the Lot as shown on the plan view. 1 Day  
 3) Install silt fences and super silt fences as shown on the plan. 2-6 Days

4) Perform the rough grading as shown on the plan view. 6-20 Days  
 Immediately stabilize the rest of the area within 3 days temporarily.

5) Perform the fine grading. 21-81 Days  
 Complete the riprap outlet, the storm drain system and cap the splitter pipe.  
 Immediately provide curb inlet protections for str # 1 and Str#3. Once complete the fine grading and stabilization, install the bioretention.  
 Once stabilization of all contributing drainage areas are completed, remove the cap of the splitter pipe and the curb inlet protections.

NOTE 1:  
 The fine grading includes installation of storm drain system, proposed building, driveway entrance, parking lot retaining walls, bioretention, riprap outlet and connecting utility lines and permanent stabilization of all disturbed areas within 7 days. Only upon fully completion and stabilization of all contributing drainage areas water shall be conveyed to the bioretention.

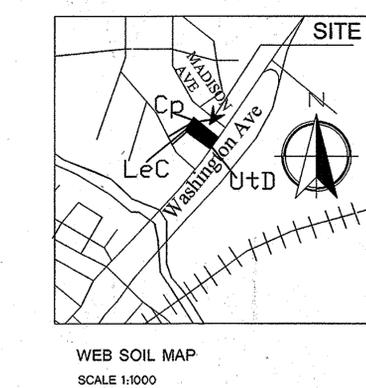
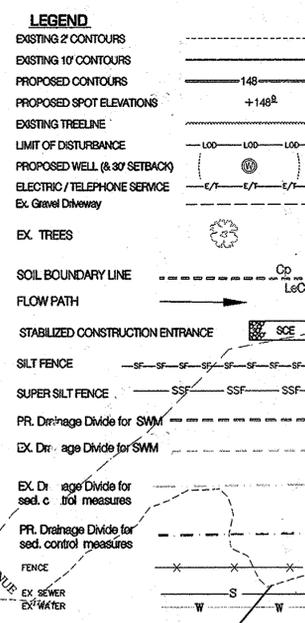
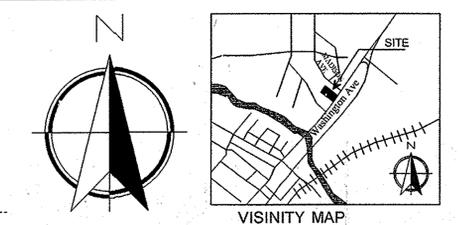
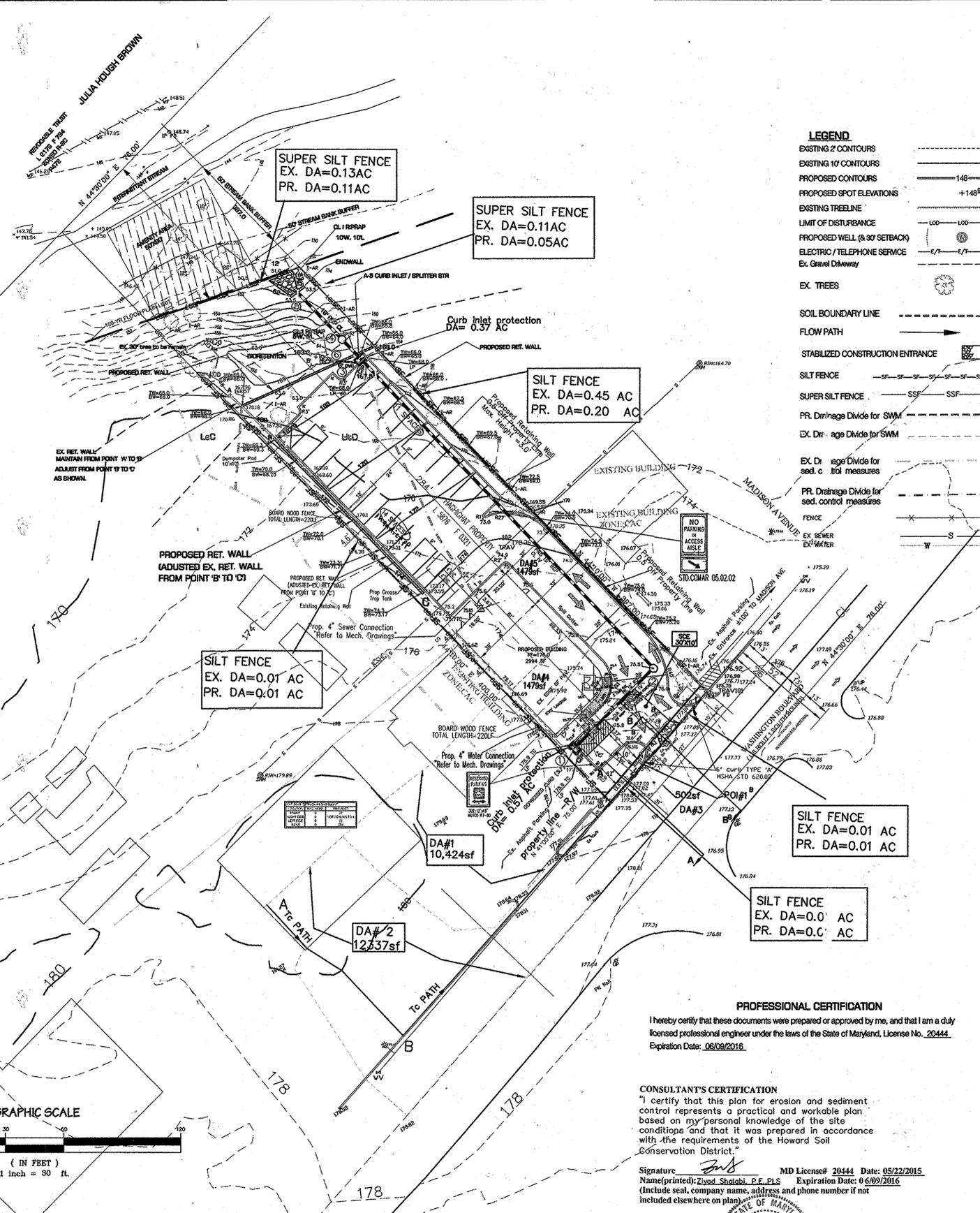
NOTE 2: The owner/developer or representative shall request that the inspection authority approve work completed in accordance with the approved erosion and sediment control plan, and shall obtain written inspection approvals by the Inspector

(i) Prior to the removal of sediment control practices; and  
 (ii) Upon completion of final grading, reforestation, permanent drainage and erosion control facilities including established ground covers and planting, and all other work of the building permits.

6) Remove sediment controls with permission of the inspector. Remove the stabilized construction entrance and install the washed stone driveway path. Stabilize all disturbed areas permanently within 7 days. 81-90 Days

total time 90 Days

TOTAL DISTURBED AREA = 0.551 ac  
 TOTAL LOT AREA = 0.684 ac



WEB SOIL TYPE:  
 UID-Urban land-Urban/other complex 0 to 15 percent slopes-D,  
 LeC-Legoso silt loam, 8 to 15 percent slopes, stony-C,  
 Cp-Codorus and Harbor soils, 0 to 2 percent slopes, frequently flooded

OWNER'S/DEVELOPER'S CERTIFICATION  
 "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."  
 Signature: *Molsen Haghighat* Date: 12/15/2015  
 Name (printed): Molsen Haghighat Title: OWNER  
 Ph#: 301-379-6330 Firm:  
 Complete address: 324 Carroll Ave, Laurel, MD 20707

\*Stabilization practices on all projects must be in compliance with the requirements of COMAR 26.17.1.08 G regulations by January 9, 2013, regardless of when an erosion and sediment control plan was approved.  
 Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:  
 a.) Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and  
 b.) Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

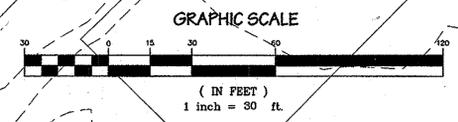
APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 1/15/16 DATE  
 CHIEF, DEVELOPMENT OF ENGINEERING DIVISION JP  
*[Signature]* 2-23-16 DATE  
 CHIEF, DIVISION OF LAND DEVELOPMENT GB  
*[Signature]* 2/23/16 DATE  
 DIRECTOR

PROFESSIONAL CERTIFICATION  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20444.  
 Expiration Date: 06/09/2016

CONSULTANT'S CERTIFICATION  
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."  
 Signature: *[Signature]* MD License# 20444 Date: 05/22/2015  
 Name (printed): Ziad Shalabi, P.E. PLS Expiration Date: 06/09/2016  
 (Include seal, company name, address and phone number if not included elsewhere on plan)

Howard Soil Conservation District:  
 This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*[Signature]*  
 Howard Soil Conservation District Date

MISS UTILITY  
 CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH THESE REQUIREMENTS.



DATE	BY	REVISIONS
05/18/2015	ZS	DESIGNED: ZIAD SHALABI PE
05/24/2015	MS	DRAWN: REZA MABADI
07/21/2015	ZS	CHECKED: REVISED DRIVE WAY ENTRANCE, PARKING LOTS AND BUILDING
		APPROVED:

**APPLIED CIVIL ENGINEERING INC.**  
 ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT & PERMIT PROCESSING  
 9470 ANNAPOLIS ROAD, SUITE 414  
 LANHAM, MARYLAND 20706  
 TEL. (301) 459-5932

**OWNER/APPLICANT/DEVELOPER**  
**MOLSEN HAGHIGHAT**  
 324 CARROLL AVE.  
 LAUREL, MD 20707  
 (301) 206 3204

GRADING, EROSION AND SEDIMENT CONTROL PLAN  
 10080 WASHINGTON BLVD.  
**MOLSEN HAGHIGHAT PROPERTY**  
 RESTAURANT & OFFICE BUILDING  
 TAX MAP 50, GRID10, PARCEL377 L5876 P0321  
 ELECTION DISTRICT NO.6, HOWARD COUNTY, MARYLAND  
**SDP-03-132**

**General Notes**

- The developer is responsible for the acquisition of all required easement right and/or rights-of-way pursuant to the discharge from the erosion and sediment control practices, stormwater management practices and the discharge of stormwater onto or across and grading or other work to be performed on adjacent or downstream properties affected by this plan.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: a) three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than three horizontal to one vertical (3:1) and b) seven (7) calendar days for all other disturbed or graded areas on the project site. The in-place sediment control measures will be maintained on a continuing basis until the site is permanently stabilized and all permit requirements are met.
- The owner/developer or representative shall request that the inspection authority approve work completed in accordance with the approved erosion and sediment control plan, the grading or building permit and shall obtain written inspection approvals by the Inspector at the following stages in the development of the site:
  - Prior to the start of earth disturbance;
  - Upon completion of installation of tree protection devices, followed by the installation of perimeter erosion and sediment controls, prior to proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until initial approval by the Inspector is made;
  - Upon completion of stripping, the stockpiling of topsoil, the construction of temporary sediment and erosion control facilities, disposal of all waste material and preparation of the ground;
  - Upon completion of rough grading, but prior to placing topsoil, permanent drainage or other site development improvements and ground covers;
  - Prior to the start of another phase of construction or opening of another grading unit;
  - Prior to the removal of sediment control practices; and
  - Upon completion of final grading, reforestation, permanent drainage and erosion control facilities including established ground covers and planting, and all other work of the building permits.

Reference 29 c. in all sequence of construction.

d. Approval shall be requested upon final stabilization of all sites with disturbed areas in excess of two acres before removal of controls.

e. All permits under an erosion and sediment control plan must and can only be issued to the owner/developer that signs the certification on the plan. The owner/developer that signs the certification on an erosion and sediment control plan is the responsible party regardless of any sale of the property or work of subcontractors. Erosion and sediment control plans are approved for one owner/developer only.

f. PGSCD approval of an erosion and sediment control plan, pursuant to meeting local permit requirements for grading, building or street permits, etc., is valid only when the work to be performed under the permit is the same as (no more/no less than) that contained in the plan as approved by the PGSCD.

g. Any changes or modifications to an approved erosion and sediment control plan, not approved by the PGSCD, shall invalidate the plan approval.

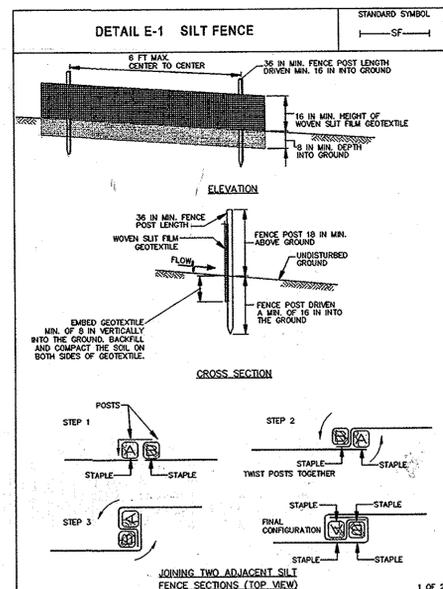
h. Offsite borrow or spoil areas must have an approved and active erosion and sediment control plan.

i. Temporary designed sediment basins shall be removed within 36 months after the beginning of construction of the basin.

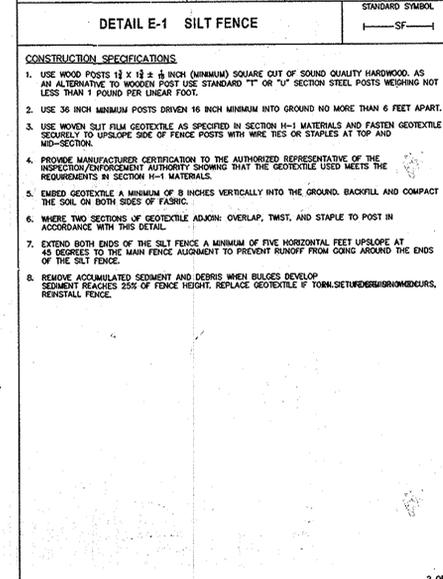
- j. On small pond approvals:
- The owner or engineer will notify PGSCD promptly in writing when construction is begun and when construction is completed.
  - The project shall be constructed under the supervision of the engineer-in-charge. Within 30 days of the completion of construction, the engineer-in-charge that designed the structure shall provide PGSCD with an As-Built plan and shall certify, with the engineer's seal, that the MD378 pond was constructed as shown on the As-Built plans.
  - The approval is valid only for use by the applicant and may not be transferred to another unless written approval for such transfer is obtained from PGSCD.

k. Disturbed surface area: 0.50 ac  
 Vegetatively stabilized area: 0.37 ac  
 Volume of spoil material: 403 cy  
 Volume of cut: 403 cy  
 Volume of borrow material: 0.0 cy  
 Volume of fill: 403 cy

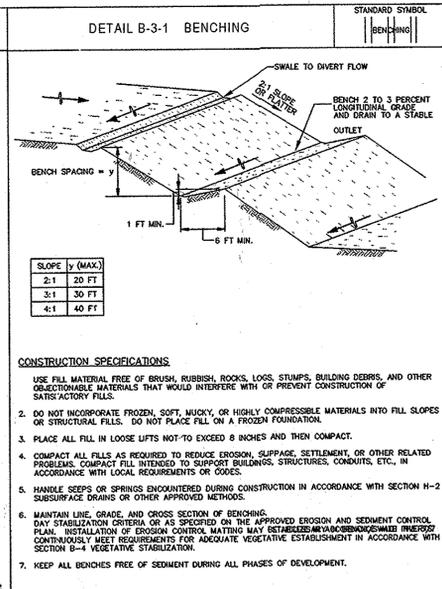
l. List Predominant soil types and general description per WEB soil survey:  
 UH—Urban land—Urban/therms complex, 0 to 15 percent slopes—D,  
 LeC—Legere silt loam, 8 to 15 percent slopes, stony—C,  
 Cp—Codus and Hobbos soils, 0 to 2 percent slopes, frequently flooded—C



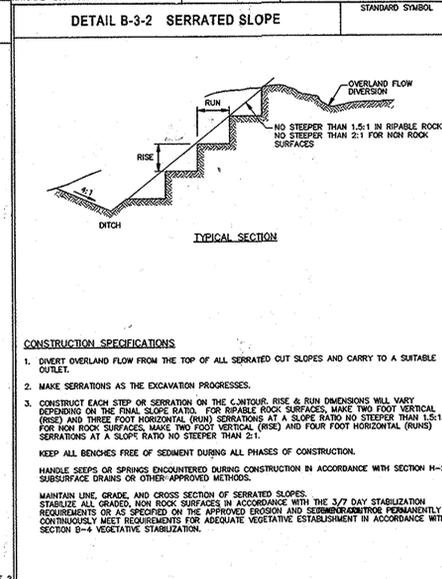
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL  
 U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



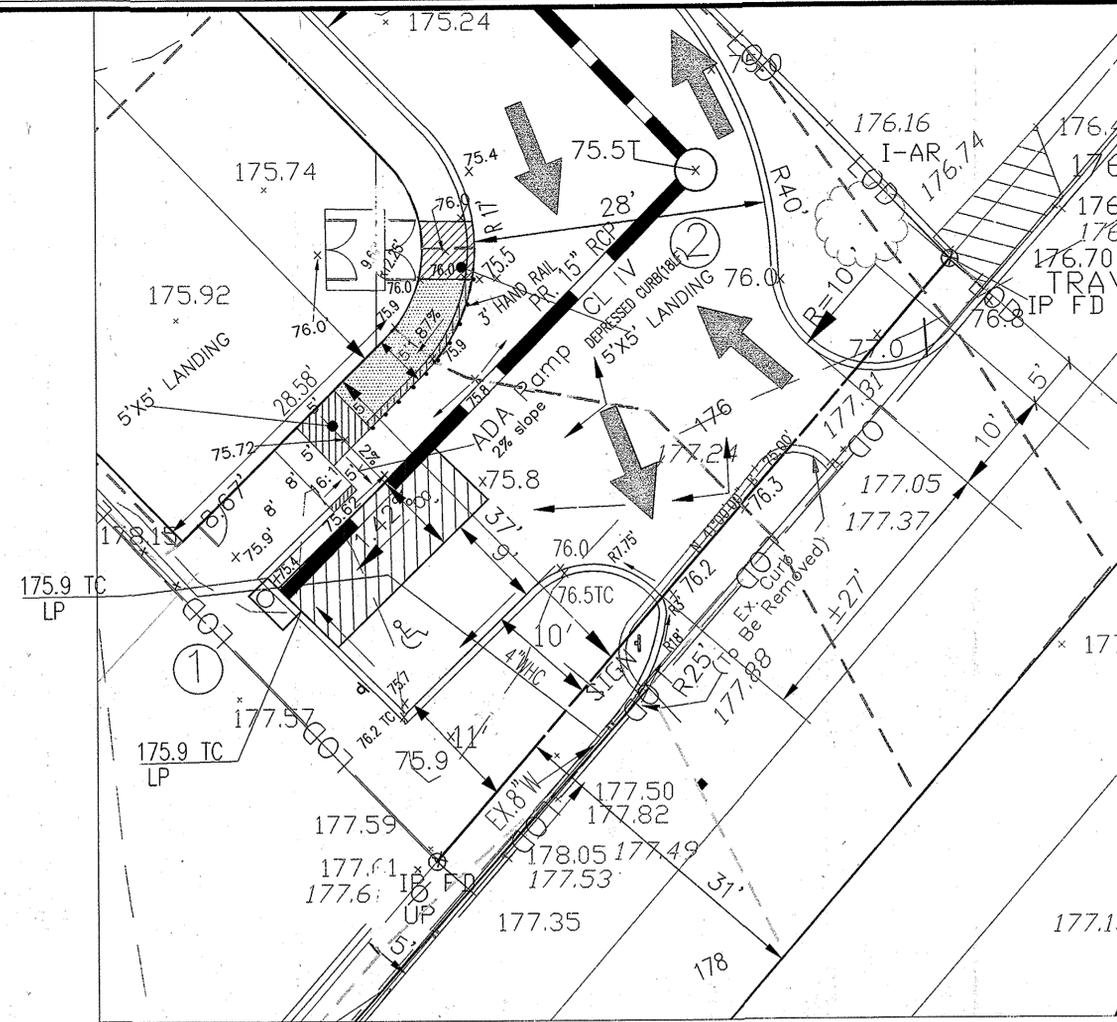
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**DETAIL OF ADA RAMP**  
 SCALE: 1" = 8'

**OWNER/APPLICANT/DEVELOPER**  
**MOLSEN HAGHIGHAT**  
 324 CARROLL AVE.  
 LAUREL, MD 20707  
 (301)206 3204

**PROFESSIONAL CERTIFICATION**  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20444.  
 Expiration Date: 06/09/2016

Zyad Shabli, P.E., P.L.S., Maryland Registration No. 20444  
 Date: 12/13/2015

Howard Soil Conservation District:  
 This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Howard Soil Conservation District Date

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
 Chief, Development of Engineering Division: 1/15/16  
 Chief, Division of Land Development: 2-25-16  
 Director: 2-24-16

**GRADING, EROSION AND SEDIMENT CONTROL PLAN**  
 10080 WASHINGTON BLVD.  
**MOLSEN HAGHIGHAT PROPERTY**  
 RESTAURANT & OFFICE BUILDING  
 TAX MAP 50, GRID 10, PARCEL 3771 L5876 F0321  
 ELECTION DISTRICT NO. 6, HOWARD COUNTY, MARYLAND  
 SDP-03-132

**APPLIED CIVIL ENGINEERING INC.**  
 ENGINEERING \* PLANNING \* SURVEYING \* LAND DEVELOPMENT  
 PERMIT PROCESSING  
 9470 ANNAPOLIS ROAD, SUITE 414  
 LAUREL, MD 20706  
 TEL: (301) 459-5332

DESIGNED: ZYAD SHABLI  
 DATE: 05/18/2015  
 DRAWN: REZA MABAKI  
 DATE: 05/24/2015  
 CHECKED: DATE:  
 APPROVED: DATE:

**LAND GRADING**

Reshaping the existing land surface to provide suitable topography for building facilities and other site improvements.

**Purpose**

To provide erosion control and vegetative establishment for extreme changes in grade.

**Conditions Where Practice Applies**

Earth disturbances or extreme grade modifications on steep or long slopes.

**Design Criteria**

The grading plan should be based on the incorporation of building designs and street layouts that fit and utilize existing topography and desirable natural surroundings to avoid extreme grade modifications. Information submitted must provide sufficient topographic surveys and soil investigations to determine limitations that must be imposed on the grading operation related to slope stability, adjacent properties, drainage patterns, measures for water removal, and vegetative treatment, etc.

Many jurisdictions have regulations and design procedures already established for land grading that must be followed. The plan must show existing and proposed contours for the area(s) to be graded including practices for erosion control, slope stabilization, and safe conveyance of runoff (e.g., waterways, lined channels, reverse benches, grade stabilization structures). The grading/construction plans are to include the phasing of these practices and consideration of the following:

- Provisions to safely convey surface runoff to storm drains, protected outlets or stable water courses to ensure that surface runoff will not damage slopes or other graded areas.
- Cut and fill slopes, stabilized with grasses, no steeper than 2:1. (Where the slope is to be moved, the slope should be no steeper than 3:1, but 4:1 is preferred because of safety factors related to moving steep slopes.) Slopes steeper than 2:1 require special design and stabilization considerations to be shown on the plan.
- Benching per Detail B-5-1 whenever the vertical interval (height) of any 21 foot exceeds 20 feet for 3:1 slopes, when it exceeds 30 feet, and for 4:1 slopes, when it exceeds 40 feet. Local benches to divide the slope face as equally as possible and to convey the water to a stable outlet.

Soils, steep, rock outcrops, etc. are to be taken into consideration when designing benches.

- Provide benches with a minimum width of six feet for areas of maintenance.
- Design benches with a reverse slope of 1:6 or flatter to the top of the upper slope and with a minimum of one foot in depth. Grade the longitudinal slope of the bench between 2 percent and 3 percent, unless accompanied by appropriate design and computations.
- The maximum allowable flow length within a bench is 800 feet unless accompanied by appropriate design and computations.

4. Diversion of surface water from the face of cut and fill slopes using earth dikes or swales. **Convey surface water down slope using a designed structure, and:**

- Protect the face of all graded slopes from surface runoff until they are stabilized.
- Do not subject the slope's face to any concentrated flow of surface water such as from natural drainage ways, graded swales, downspouts, etc.
- Protect the face of the slope by special erosion control materials to include, but not be limited to, approved vegetative stabilization practices, riprap or other approved stabilization methods.

5. Serrated slopes as shown in Detail B-3-2. The steepest allowable slope for riprap rock is 1.5:1. For rock surfaces, the slope may be 2:1 or flatter. The slope is to be held moist, lime, fertilizer and seed thus producing a much quicker and longer lived vegetative cover and better slope stabilization.

6. Subsurface drainage provisions. Provide subsurface drainage where necessary to intercept seepage that would otherwise adversely affect slope stability or create excessively wet site conditions.

7. Proximity to adjacent property. Slopes must not be created close to property lines without adequate protection against sedimentation, erosion, slippage, settlement, subsidence, or other related damages.

8. Quality of fill material. Fill material must be free of brush, rubbish, logs, stumps, building debris, and other objectionable material. Do not place frozen materials in the fill nor place fill material on a frozen foundation.

9. Stabilization. Stabilize all disturbed areas structurally or vegetatively in compliance with Section B-4 Standards and Specifications for Stabilization Practices.

**Maintenance**  
The line, grade, and cross section of benching and serrated slopes must be maintained. Benches and serrated slopes must be maintained by other methods. This specification is divided into sections on incremental stabilization, soil preparation, soil amendments and topsoiling, seeding and mulching, temporary stabilization, and permanent stabilization.

**Effects on Water Quality and Quantity**  
Stabilization practices are used to promote the establishment of vegetation on exposed soil. When soil is stabilized with vegetation, the soil is less likely to erode and more likely to allow infiltration of rainfall, thereby reducing sediment loads and runoff to downstream areas.

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration, evaporation, transpiration, percolation, and groundwater recharge. Over time, vegetation will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth.

Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone.

**Sediment control practices must remain in place during grading, seedbed preparation, seeding, mulching, and vegetative establishment.**

**Adequate Vegetative Establishment**  
Inspect seeded areas for vegetative establishment and make necessary repairs, replacements, and reseedings within the planting season.

- Adequate vegetative establishment requires 95 percent groundcover.
- If an area has less than 40 percent groundcover, reestablish following the original recommendations for lime, fertilizer, seedbed preparation, and seeding.
- If an area has between 40 and 94 percent groundcover, over-seed and fertilize using half of the rates originally specified.
- Maintenance fertilizer rates for permanent seeding are shown in Table B-6.

**B-1 STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION**

Establishment of vegetative cover on cut and fill slopes.

**Purpose**

To provide timely vegetative cover on cut and fill slopes as work progresses.

**Conditions Where Practice Applies**

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

**Criteria**

**A. Incremental Stabilization - Cut Slopes**  
1. Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.

2. Construction sequence example (Refer to Figure 1):  
a. Construct and stabilize all temporary swales or dikes that will be used to convey runoff around the excavation.  
b. Perform Phase 1 excavation, prepare seedbed, and stabilize.  
c. Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as necessary.  
d. Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

**Note:** Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

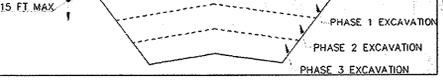


Figure 1: Incremental Stabilization - Cut

**B. Incremental Stabilization - Fill Slopes**

1. Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.

2. Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.

3. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.

4. Construction sequence example (Refer to Figure 2):  
a. Construct and stabilize all temporary swales or dikes that will be used to divert runoff around the fill. Construct silt fence on low side of fill unless other methods shown on the plans address this area.  
b. At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.  
c. Phase 1 fill, prepare seedbed, and stabilize.  
d. Phase 2 fill, prepare seedbed, and stabilize.  
e. Phase 3 fill, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

**Note:** Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

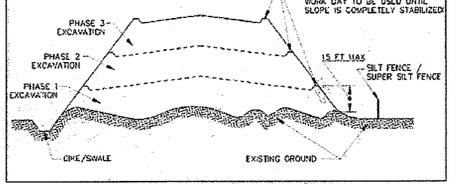


Figure 2: Incremental Stabilization - Fill

**B-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS**

The process of preparing the soils to sustain adequate vegetative stabilization.

To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies  
Where vegetative stabilization is to be established.

**A. Soil Preparation**

1. Temporary Stabilization  
a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it should be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.  
c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.

**2. Permanent Stabilization**

a. A soil test is required for any earth disturbance of 3 acres or more. The minimum soil conditions required for permanent vegetative establishment are:  
i. Soil pH between 6.0 and 7.0.  
ii. Soluble salts less than 500 parts per million (ppm).  
iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: If loess will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.  
iv. Soil contains 1.5 percent minimum organic matter by weight.  
v. Soil contains sufficient pore space to permit adequate root penetration.

b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.

c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.

d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.

e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas.

**B. Topsoiling**

1. Topsoil is soil is soil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS.

3. Topsoiling is limited to areas having 2:1 or flatter slopes where:  
a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.  
b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.  
c. The original soil to be vegetated contains material toxic to plant growth.  
d. The soil is so acidic that treatment with limestone is not feasible.

4. Areas having slopes steeper than 2:1 require special consideration and design.  
Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:  
a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.  
b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified.  
c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

**C. Soil Amendments (Fertilizer and Lime Specifications)**

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 3 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analysis.

2. Fertilizers must be uniform in composition, free flowing and suitable for immediate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroxydizing) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.

4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.

5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil.

**STANDARDS AND SPECIFICATIONS FOR SEDIMENT AND EROSION CONTROL**

**B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING**

Definition  
To stabilize disturbed soils with erosion control and legume establishment.

Purpose  
To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies  
To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

**Criteria**

**A. Seeding**  
1. Specifications  
a. All seed must meet the requirements of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B-4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify the type of seed and seeding rate.  
b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the ground thaws.  
c. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.

2. Turfgrass Mixtures  
a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will receive a medium to high level of maintenance.  
b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
c. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
d. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

3. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
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d. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

6. Fertilizer  
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c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

7. Fertilizer  
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8. Fertilizer  
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9. Fertilizer  
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c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

11. Fertilizer  
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b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

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b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

14. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
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15. Fertilizer  
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c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

16. Fertilizer  
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b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

17. Fertilizer  
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c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

19. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

20. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

21. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

22. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

23. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

24. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

25. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

26. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

27. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

28. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

29. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 34-2 - Critical Area Planting.  
c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency.

30. Fertilizer  
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Hardiness Zone (from Figure B-3), and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The seeding date is to be placed on the plan.  
b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA