

**CLIFTON TOWN PLANNING COMMISSION
REGULAR MEETING, HELD ELECTRONICALLY VIA ZOOM
TUESDAY, APRIL 26, 2022, 7:30 PM**

In accordance with the Town of Clifton's Declaration of a Local Emergency due to the COVID-19 pandemic under Virginia Code § 44-146.21 which enables the Town of Clifton Government bodies to conduct Town business through electronic public meetings under Virginia Code § 2.2-3708.2, the Town of Clifton Planning Commission held the Meeting noticed herein electronically for the purpose of continuity of government of the Town of Clifton.

The meeting was conducted using Zoom teleconferencing audio and video service, and connection information was provided to members of the public to afford the opportunity to citizens to witness the operation of the Town of Clifton government by the Town Clerk.

Present: Kathy Kalinowski, Chair; Town Council Representative Member Patrick Pline; Paula Sampson; Michelle Stein; Adam Trost; Terri Winkowski.
Staff: Amanda Christman, Zoning Clerk.
Absent: Susan Yantis.

The Regular Meeting was called to order by Chair Kalinowski at 7:30 PM.

Order of Business:

1. Commercial Applications:

- a. 12644 Chapel Road: Add Kiwi Resorts LLC to existing Use Permit
See attached application.

The Planning Commission reviewed a Use Permit submitted by Matthew Brooks for Kiwi Resorts, LLC for commercial space at 12644 Chapel Road, Clifton. Mr. Brooks presently has Use Permits for Agri Chemical Consulting LLC and Clifton Waterworks LLC which are at the same location as Kiwi Resorts, LLC, namely Suites 204, 206 and 208 of 12644 Chapel Road. Mr. Brooks will be using the space as office space for Kiwi Resorts, however, no additional employees will be located at the premises for the addition of the new entity, and all three businesses will share the same space. The hours of the new business will be Monday through Friday 8AM -6PM. No additional parking spaces will be allocated to Kiwi Resorts, since the square footage is remaining the same and the use, commercial office, is remaining the same, and presently there are three parking spaces allocated to the office use at Suites 204, 206 and 208.

- **Chair Kalinowski moved to recommend that the Town Council approve the additional Use Permit for Kiwi Resorts, LLC to share office space at the aforementioned location with hours and parking as shown, seconded by Member Stein. The motion was approved by poll, 6-0.**

b. 12642 Chapel Road: Signature Aesthetics LLC
See attached application.

The Planning Commission reviewed a Use Permit submitted by Kristin Hill for Signature Aesthetics LLC located at 12642 Chapel Road, Suite 16 D, for use to provide medical aesthetic treatments one patient at a time. The space is 146 square feet and hours and time of operation are to be Monday through Saturday 7AM to 9PM. Two parking spaces are required for this use, one per employee and one per square footage. The parking tabulation for this property shows 17 available spaces with 12 in use.

- **Chair Kalinowski moved to recommend that the Town Council approve the application for the aforementioned times and hours and with the allocation of two parking spaces, seconded by Member Sampson. The motion was approved by poll, 6-0.**

c. 12642 Chapel Road: Kauffman Group Inc
See attached application.

The Planning Commission reviewed a Use Permit submitted by Glenn Kauffman of Kauffman Group Inc. for commercial office space in Suite 9F at 12642 Chapel Road, for a part time office for a contracting business whose main office is in Leesburg, hours of Monday – Sunday from 7AM to 9PM and usage of 178.5 square feet of space.

- **Chair Kalinowski moved to recommend that the Town Council approve the application for the aforementioned times and hours and usage with the allocation of one parking space and the condition of no equipment or truck storage on the parking lot, seconded by Town Council Representative Member Pline. The motion was approved by poll, 6-0.**

d. 12642 Chapel Road: Summit Real Estate LLC
See attached application.

The Planning Commission reviewed a Use Permit submitted by James D. Fullerton for Summit Real Estate, LLC for office space at 12642 Chapel Road. Mr. Fullerton will be using the same office space for his real estate company as his law firm of Fullerton & Knowles, and under the same criteria, as indicated on the law firm Use Permit dated August 31, 2009 for commercial offices, hours of operation 9AM to 6PM and the allocation of eight parking spaces.

- **Chair Kalinowski moved to recommend that the Town Council approve the additional Use Permit for Summit Real Estate, LLC to share office space at the aforementioned location, under the same terms and conditions as set forth above. The motion was approved by poll, 6-0.**

2. Residential Application:

a. 7184 Clifton Road: Amendment to Preliminary Use Permit for Construction
See attached application.

The Planning Commission reviewed the amended preliminary Use Permit application submitted by Josh Snyder, owner of 7184 Clifton Rd, for the removal of the two failing wood retaining walls and their replacement with concrete retaining walls to be installed in accordance with the Plan of Development dated October 27, 2015. Scott Peterson, the Town Engineer also reviewed the Plans submitted and outlined his comments in his letters of April 20, 2022, to which the applicant and his engineer responded by email dated April 21, 2022. Upon review of the applicants and engineer's responses, Scott Peterson, recommended that the application be approved in his letter of April 22, 2022 based on the conditions set forth in the letter, namely,

Minutes adopted by the Planning Commission on May 31, 2022 as presented

that the applicant build the concrete retaining walls in accordance with the approved Plan of Development; obtain ARB approval; and conform to all County E&S requirements. In addition, the Planning Commission recommends that the applicant prior to approval, satisfy any outstanding invoices of the Town Engineer with respect to this property, copies of which have been provided to applicant.

- **Chair Kalinowski moved to recommend that the Town Council approve the amended Use Permit for the concrete retaining walls with the aforementioned conditions and that the applicant return for a Final Use Permit, seconded by Member Stein. The motion was approved by poll, 6-0.**

3. Unfinished Business:

a. ADA Research Project.

Chair Kalinowski reported that a memo will be provided for review at the May meeting.

b. Proposed Zoning Changes.

The Members discussed a variety of options to be considered for a proposed Code change, including with regard to AirBnB, requiring a qualified engineer to certify the amount of land disturbance on applications over 1,500 square feet, and whether or not to authorize the Planning Commission Chair and Zoning Clerk to sign off on pro-forma permits.

4. Town plan consultant contract.

The Planning Commission reviewed the proposed agreement with the Town and Samantha Kinzer to provide assistance in the formulation and revision of the 2009 Town of Clifton Plan.

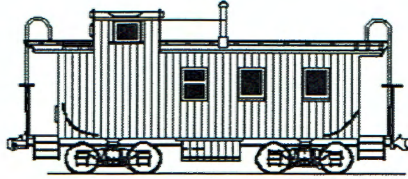
- **Chair Kalinowski moved to recommend that the Town Council approve the proposed agreement upon the terms and conditions as set forth therein, seconded by Member Sampson. The motion was approved by poll, 6-0.**

5. Approve March 29, 2022 Minutes.

- **Chair Kalinowski moved to approve The March 29, 2022 Minutes as presented, seconded by Town Council Representative Member Pline. The motion was approved by poll, 6-0.**

6. Adjournment.

The meeting was adjourned by general acclamation at 8:48 PM.



TOWN OF CLIFTON, VIRGINIA

Use Permit Application

Property Address: 12644 Chapel Rd #204,206,208 Clifton VA 20124		Date: [Month / Year] 04/2020		
1. Type of Permit:	<input type="checkbox"/> Construction	<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential	<input type="checkbox"/> Home Business (Code 9-19.c1)
	<input type="checkbox"/> Preliminary Site Plans Attached	<input checked="" type="checkbox"/> Office <input type="checkbox"/> Retail		
	<input type="checkbox"/> Special Use	<input type="checkbox"/> Subdivision (Code Chapter 10)	<input type="checkbox"/> Boundary Line Adjustment/Lot Consolidation (Code 10-57 to Code 10-59)	<input type="checkbox"/> Public Use
	<input type="checkbox"/> Restaurant			
	<input type="checkbox"/> Bed & Breakfast			
	<input type="checkbox"/> Multi-Family			
2. Name of Applicant: Matthew Brooks				
Mailing Address: 12644 Chapel Rd Ste. 204 Clifton VA 20124				
Phone: 703-266-0128				
Email Address: mwbrooks01@yahoo.com				
3. Name of Property Owner (if different): Quinta Properties LLC				
Mailing Address: 12644 Chapel Rd Clifton VA 20124				
4. Name of Business / Organization: Agri-Chemical Consulting LLC, Clifton WaterWorks LLC, Kiwi Resorts LLC				
5. Owner of Business / Organization: Matthew Brooks				
6. Tax Map Number: 0754-02-0023A				
7. Attach a plat or plan drawn to scale showing the proposed construction, certified by an engineer, surveyor, architect, authorized to practice as such by VA, together with a surveyed plat of the property indicating all building and structure setbacks and height.			<input type="checkbox"/> Plat Attached	
			NA	

8. Attach Floor Plan to Scale (non-residential & home business): <input checked="" type="checkbox"/> Floor Plan Attached				
9. Zoning District of Premises:	<input type="checkbox"/> Residential (Code 9-19)	<input checked="" type="checkbox"/> Commercial (Code 9-21)	<input type="checkbox"/> Agricultural (Code 9-20)	<input type="checkbox"/> Industrial (Code 9-22)
	<input type="checkbox"/> Church, Park, Community Building			
	<input type="checkbox"/> Community Open Space & Recreation (COSR) (Code 9-23A)		<input type="checkbox"/> Low Impact Commercial (Code 9-23B)	
10. Describe Purpose of Application: To add Kiwi Resorts LLC to the use permit				
10. If Commercial, Home Business, Agricultural or Industrial:				
11. Describe Operation: Agri--Chemical Consulting- Regulatory consulting for pesticide registrations Clifton WaterWorks - Water Testing service Kiwi Resorts LLC- managing investment properties				
11.a. If Non-Residential - Office Use: <u>592</u> SF or Retail/Restaurant Use: _____ SF				
11.b. Days & Hours of Operation (include special events): M-F 8 to 6				
11.c. Number of Employees on Site at any One Time: <u>2</u>				
11.d. Number of Seats (Restaurant/Church): Total: _____. If applicable, provide number of seats located Inside: _____ and; Outside: _____				
11.e. Gross Floor Area (GFA) of Building or /Premises: <u>592</u> SF (Code 9-13) Net Gross Floor Area if more than one use in building: _____ SF If applicable, GFA devoted to carry-out service within restaurant: _____ SF				
11.f. Number of Off-street Parking Spaces Required: <u>2</u> (Code 9-13)				
11.g. Number of Off-street Parking Spaces Provided* (attach parking plan to scale with dimensions identifying existing and proposed parking spaces): <u>2</u>				
11.h. Gross Floor Area of Dwelling (Home Business Only): _____ SF				
12. Application Fee Enclosed: (Fee schedule in Filing Instructions) \$ <u>75</u>				

*PLEASE INCLUDE A PARKING TABULATION FORM FOR BUILDINGS THAT HAVE MORE THAN ONE USER IN THE BUILDING.

Is the applicant or owner a member of a homeowners association (HOA)? Yes No If yes, please obtain the approval of the HOA prior to submission of the application.

HOA REPRESENTATIVE (NAME/SIGNATURE) _____ DATE OF HOA APPROVAL: _____

The undersigned hereby applies for a Use Permit pursuant to Article 2, Section 9-10 of the Zoning Ordinance of the Code of Town of Clifton, Virginia.

APPLICANT'S SIGNATURE: *[Signature]* DATE: 4/7/2022

PROPERTY OWNER SIGNATURE: *[Signature]* DATE: 4/11/2022

FOR TOWN USE ONLY

RECEIPT DATE: _____ DATE APPLICATION ACCEPTED: _____

APPLICATION FEE PAID: \$ _____

APPROVED DISAPPROVED

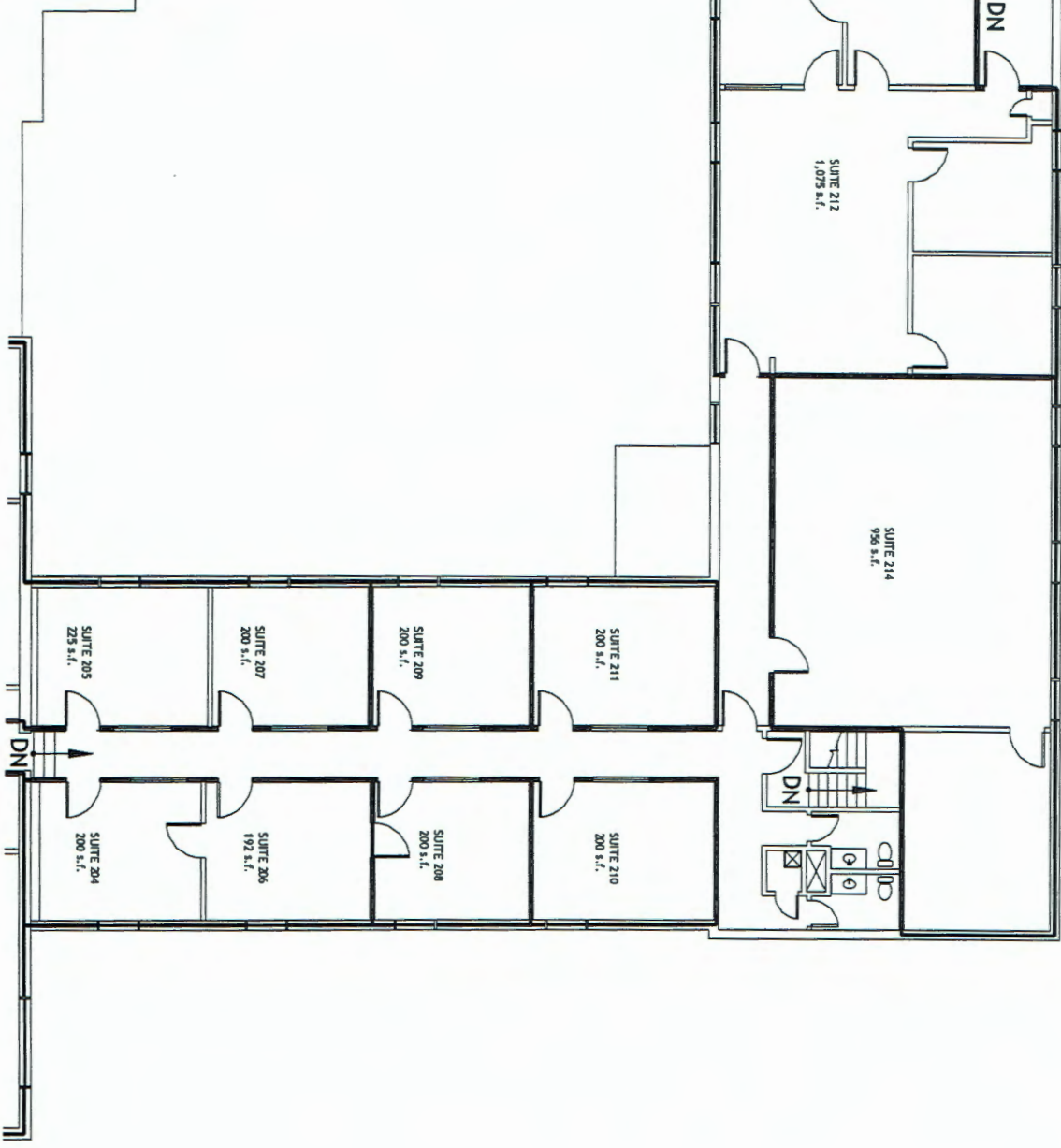
PLANNING COMMISSION: _____
SIGNATURE PRINT

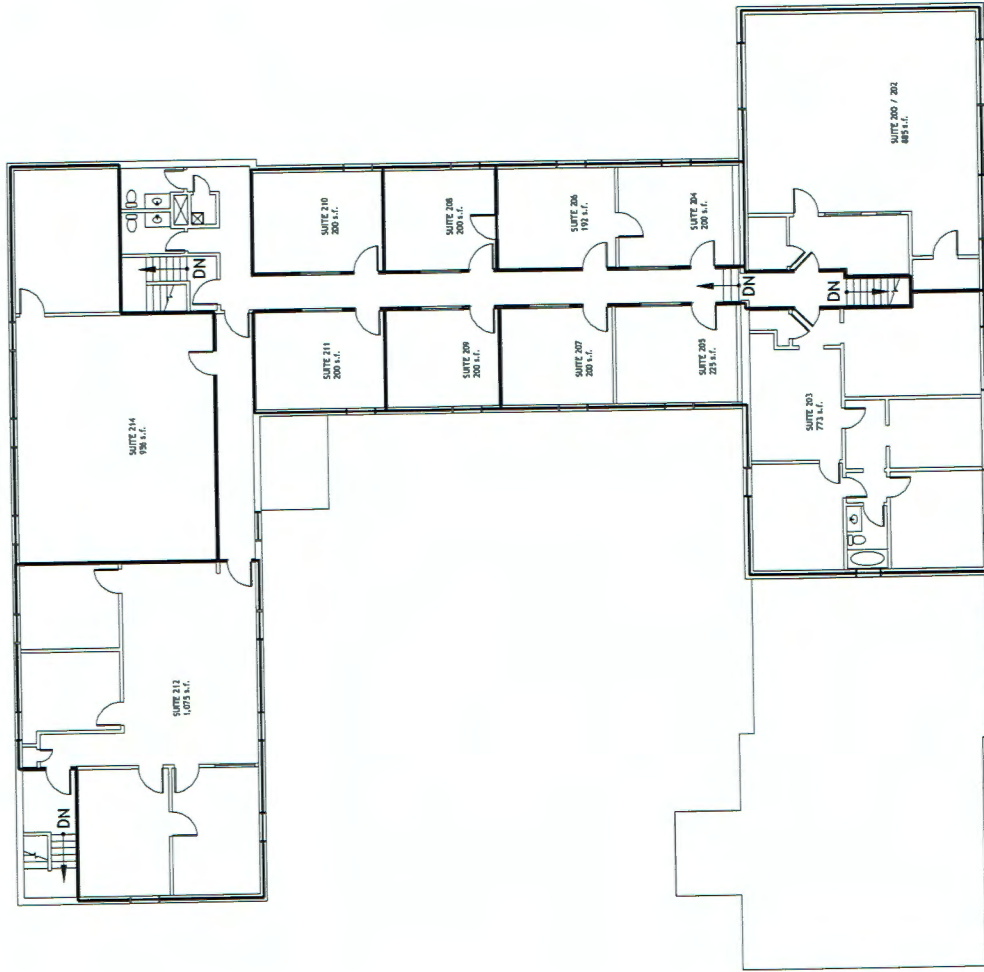
CONDITIONS: _____

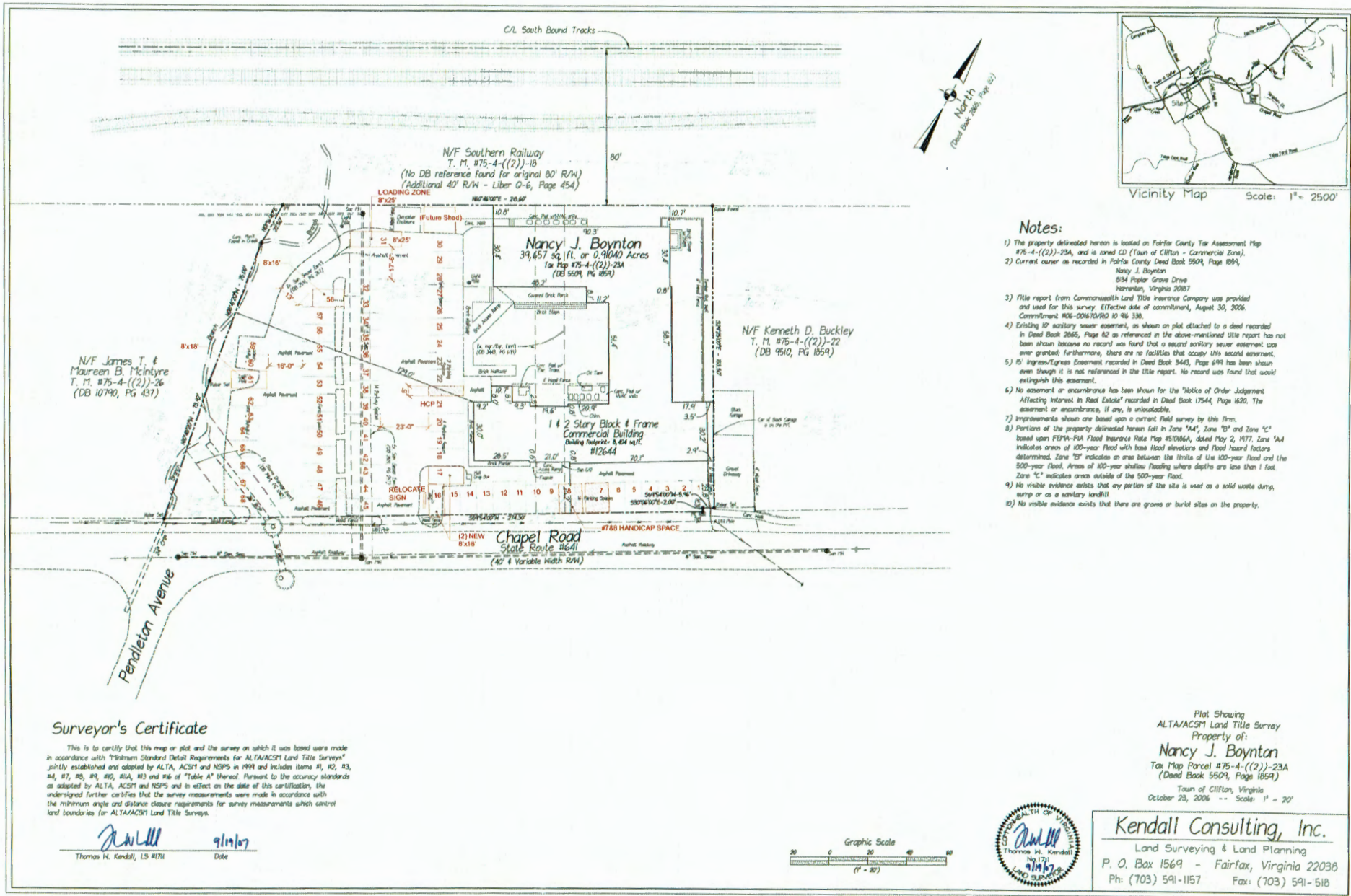
APPROVED DISAPPROVED

TOWN COUNCIL: _____
SIGNATURE PRINT

CONDITIONS: _____





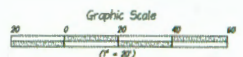


- Notes:**
- 1) The property delineated herein is located on Fairfax County Tax Assessment Map #75-4-(22)-23A, and is zoned CD (Town of Clifton - Commercial Zone).
 - 2) Current owner as recorded in Fairfax County Deed Book 5509, Page 1854, Nancy J. Boynton, 834 Poplar Grove Drive, Herndon, Virginia 20187.
 - 3) Title report from Commonwealth Land Title Insurance Company was provided and used for this survey. Effective date of commitment, August 30, 2006. Commitment #06-00670/R0 10 96 330.
 - 4) Existing 10' sanitary sewer easement, as shown on plot attached to a deed recorded in Deed Book 2665, Page 62 as referenced in the above-mentioned title report has not been shown because no record was found that a second sanitary sewer easement was ever granted. Furthermore, there are no facilities that occupy this second easement.
 - 5) 15' Ingress/Egress Easement recorded in Deed Book 3443, Page 699 has been shown even though it is not referenced in the title report. No record was found that would extinguish this easement.
 - 6) No easement or encumbrance has been shown for the "Notice of Order Judgment Affecting Interest in Real Estate" recorded in Deed Book 17544, Page 1620. The easement or encumbrance, if any, is unlocatable.
 - 7) Improvements shown are based upon a current field survey by this firm.
 - 8) Portions of the property delineated herein fall in Zone "A4", Zone "B" and Zone "C" based upon FEMA-FIA Flood Insurance Rate Map #51066A, dated May 2, 1977. Zone "A4" indicates areas of 100-year flood with base flood elevations and flood hazard factors determined. Zone "B" indicates an area between the limits of the 100-year flood and the 500-year flood. Areas of 100-year shallow flooding where depths are less than 1 foot. Zone "C" indicates areas outside of the 500-year flood.
 - 9) No visible evidence exists that any portion of the site is used as a solid waste dump, swamp or as a sanitary landfill.
 - 10) No visible evidence exists that there are graves or burial sites on the property.

Surveyor's Certificate

This is to certify that this map or plot and the survey on which it was based were made in accordance with "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys" jointly established and adopted by ALTA, ACSM and NSPS in 1999 and include items #1, #2, #3, #4, #7, #8, #9, #10, #14, #15 and #16 of "Table A" hereof. Pursuant to the accuracy standards as adopted by ALTA, ACSM and NSPS and in effect on the date of this certification, the undersigned further certifies that the survey measurements were made in accordance with the minimum angle and distance closure requirements for survey measurements which control land boundaries for ALTA/ACSM Land Title Surveys.

Thomas H. Kendall 9/11/07
 Thomas H. Kendall, LS #1711 Date



Kendall Consulting, Inc.
 Land Surveying & Land Planning
 P. O. Box 1569 - Fairfax, Virginia 22038
 Ph: (703) 591-1157 Fax: (703) 591-518

Plot Showing
 ALTA/ACSM Land Title Survey
 Property of:
Nancy J. Boynton
 Tax Map Parcel #75-4-(22)-23A
 (Deed Book 5509, Page 1854)
 Town of Clifton, Virginia
 October 23, 2006 -- Scale: 1" = 20'

Town of Clifton

Commercial Parking Tabulation

Property Name: Clifton House

Address: 12644 Chapel Road

Date: 4/5/2022

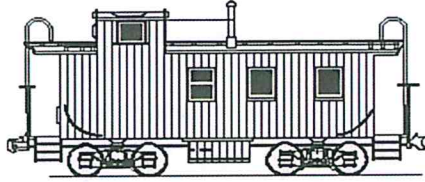
Building Total Gross Floor Area: 14,616

SUITE #	TENANT NAME	NET FLOOR AREA	USE (Restaurant/Office/ Retail/Other Commercial Use)	Max. # EMPLOYEES (Retail/Restaurant only)	NUMBER OF CUSTOMER SEATS (Restaurant only)	PARKING SPACES Approved	DATE OF USE PERMIT (or Council approval)
A & B	Motier	936	Retail/Restaurant	4	14	11	3/3/2020
C	VACANT	856					
D	Kate Baker Designs	288	Retail	1	N/A	2	10/5/2021
E	U.S. Post Office	540	Retail	3	N/A	5	2/5/1992
F	Virginia Mercantile	762	Retail	N/A	N/A	4	3/2/2021
107, 108, 109, 111, & 112	Market Financial	976	Office	N/A	N/A	5	1/5/2021
214	Coppermine Realty	956	Office	N/A	N/A	5	1/5/2021
113, 210	Anthony Reid	400	Office	N/A	N/A	2	10/6/2020
114	The Hair Garage, LLC	593	Retail	N/A	N/A	4	7/7/2020
115	GoldensHill Papercrafts	1,536	Retail	1	N/A	7	6/3/2014
200/202	Wheelhouse Pilates	885	Retail	2	N/A	5	1/5/2021
203	LCS/On Point	773	Office	N/A	N/A	4	11/2/2021
204, 206, 208	AG Chem/Waterworks	592	Office	N/A	N/A	3	7/5/2016
209, 211	Kohlmark Flach Architects	400	Office	N/A	0	2	10/2/2018
212	Sun Design	1,075	Office	N/A	N/A	5	4/5/2022
110	Counseling for Creative	192	Office	N/A	N/A	1	6/2/2020
205, 207	Clifton Therapy	425	Office	N/A	N/A	2	8/3/2021
	Total allocated parking based on Town approved	12185				67	

Total Parking Spaces Provided at 12644 Chapel Rd:

68

4/5/2022



TOWN OF CLIFTON, VIRGINIA

Use Permit Application

Property Address: 12642 Chapel Road, Clifton, VA 20124		Date: [Month / Year] April/2022		
1. Type of Permit:	<input type="checkbox"/> Construction	<input checked="" type="checkbox"/> Commercial	<input type="checkbox"/> Residential	<input type="checkbox"/> Home Business (Code 9-19.c1)
	<input type="checkbox"/> Preliminary Site Plans Attached	<input checked="" type="checkbox"/> Office <input type="checkbox"/> Retail		
	<input type="checkbox"/> Special Use	<input type="checkbox"/> Subdivision (Code Chapter 10)	<input type="checkbox"/> Boundary Line Adjustment/Lot Consolidation (Code 10-57 to Code 10-59)	<input type="checkbox"/> Public Use
	<input type="checkbox"/> Restaurant			
	<input type="checkbox"/> Bed & Breakfast			
	<input type="checkbox"/> Multi-Family			
2. Name of Applicant: Kristin Hill				
Mailing Address: 12726 Clifton Heights Lane				
Phone: 703-999-2067				
Email Address: birkkm@gmail.com				
3. Name of Property Owner (if different): Clifton Professional Offices, LLC.				
Mailing Address: 12642 Chapel Road, Clifton, Virginia 20124				
4. Name of Business / Organization: Signature Aesthetics, LLC				
5. Owner of Business / Organization: Kristin Hill, FNP				
6. Tax Map Number: 0754 02 0022				
7. Attach a plat or plan drawn to scale showing the proposed construction, certified by an engineer, surveyor, architect, authorized to practice as such by VA, together with a surveyed plat of the property indicating all building and structure setbacks and height.		<input type="checkbox"/> Plat Attached N/A		

8. Attach Floor Plan to Scale (non-residential & home business):				<input checked="" type="checkbox"/> Floor Plan Attached	
9. Zoning District of Premises:	<input type="checkbox"/> Residential (Code 9-19)	<input checked="" type="checkbox"/> Commercial (Code 9-21)	<input type="checkbox"/> Agricultural (Code 9-20)	<input type="checkbox"/> Industrial (Code 9-22)	
	<input type="checkbox"/> Church, Park, Community Building				
	<input type="checkbox"/> Community Open Space & Recreation (COSR) (Code 9-23A)		<input type="checkbox"/> Low Impact Commercial (Code 9-23B)		
10. Describe Purpose of Application: To establish a business to provide medical aesthetic services.					
10. If Commercial, Home Business, Agricultural or Industrial:					
11. Describe Operation: A single patient setting to provide medical aesthetic treatments.					
11.a. If Non-Residential - Office Use: <u>150 (approx)</u> SF or Retail/Restaurant Use: _____ SF					
11.b. Days & Hours of Operation (include special events): T, Th, F 10AM to 2PM. <i>ALL</i> Other days by appt. <i>Levor (11)</i>					
11.c. Number of Employees on Site at any One Time: <u>1</u> (Kristin Hill)					
11.d. Number of Seats (Restaurant/Church): Total: _____. If applicable, provide number of seats located Inside: _____ and; Outside: _____					
11.e. Gross Floor Area (GFA) of Building or /Premises: _____ SF (Code 9-13) Net Gross Floor Area if more than one use in building: _____ SF If applicable, GFA devoted to carry-out service within restaurant: _____ SF					
11.f. Number of Off-street Parking Spaces Required: <u>1</u> (Code 9-13)					
11.g. Number of Off-street Parking Spaces Provided* (attach parking plan to scale with dimensions identifying existing and proposed parking spaces): <u>1</u> (Per Clifton Pro. Offices)					
11.h. Gross Floor Area of Dwelling (Home Business Only): _____ SF					
12. Application Fee Enclosed: (Fee schedule in Filing Instructions) \$ <u>\$250.00</u>					

*PLEASE INCLUDE A PARKING TABULATION FORM FOR BUILDINGS THAT HAVE MORE THAN ONE USER IN THE BUILDING.

Is the applicant or owner a member of a homeowners association (HOA)? Yes No If yes, please obtain the approval of the HOA prior to submission of the application.

HOA REPRESENTATIVE (NAME/SIGNATURE) _____ DATE OF HOA APPROVAL: _____

The undersigned hereby applies for a Use Permit pursuant to Article 2, Section 9-10 of the Zoning Ordinance of the Code of Town of Clifton, Virginia.

APPLICANT'S SIGNATURE: [Signature] DATE: 4-13-2022

PROPERTY OWNER SIGNATURE: [Signature] DATE: 4/13/22

FOR TOWN USE ONLY

RECEIPT DATE: _____ DATE APPLICATION ACCEPTED: _____

APPLICATION FEE PAID: \$ _____

APPROVED DISAPPROVED

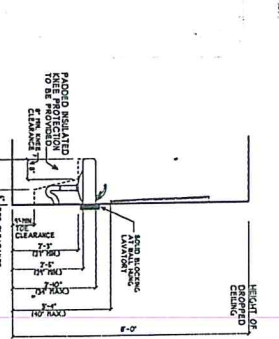
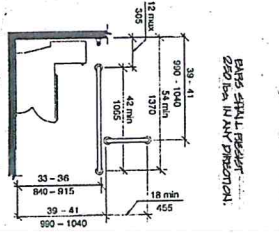
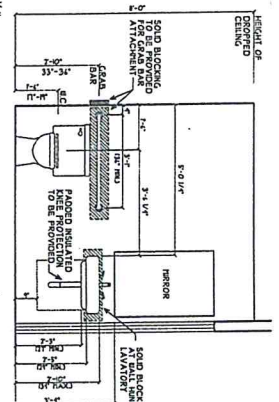
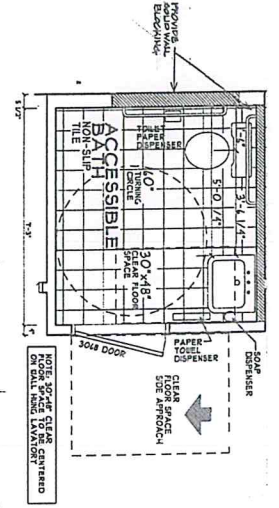
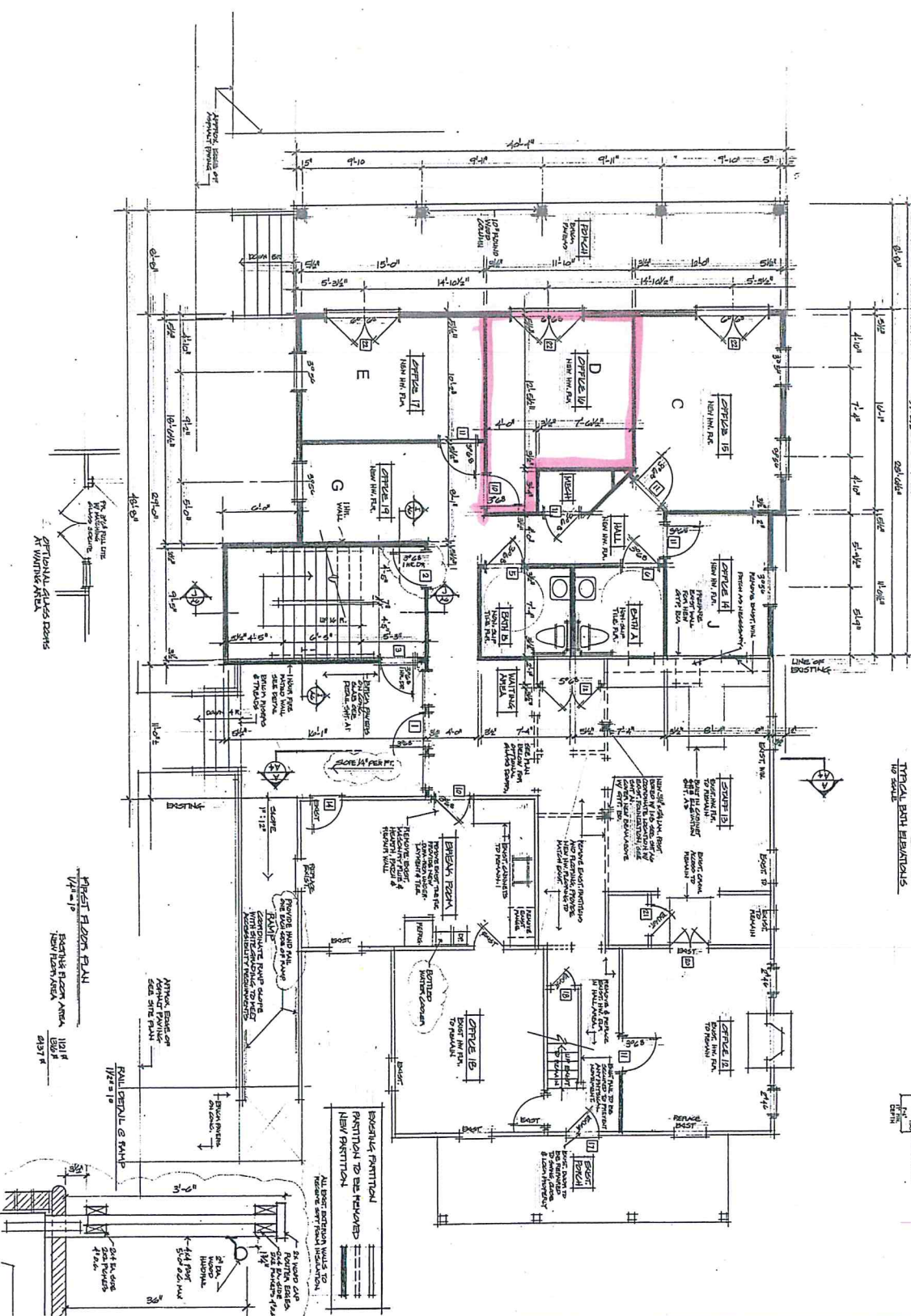
PLANNING COMMISSION: _____
SIGNATURE PRINT

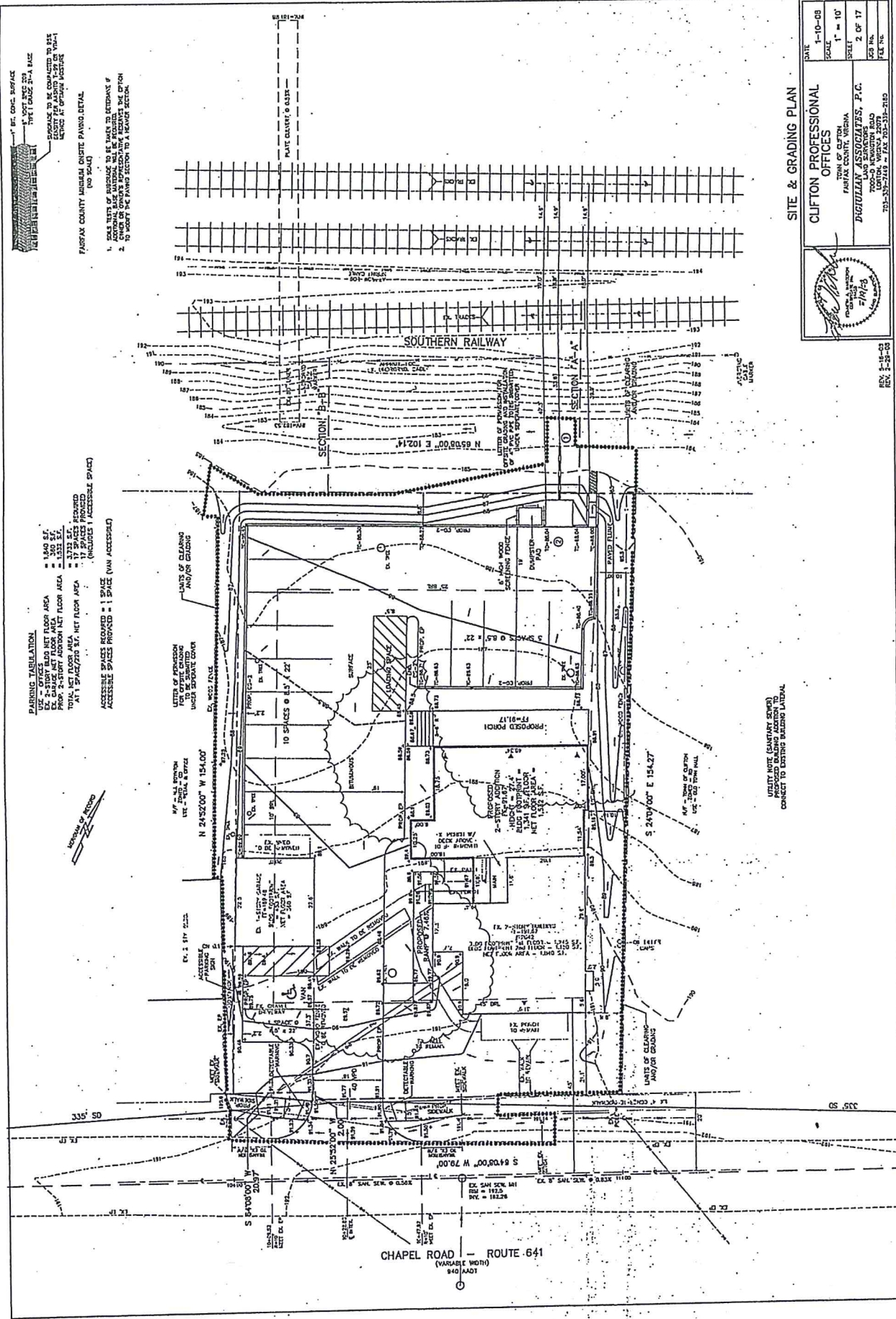
CONDITIONS: _____

APPROVED DISAPPROVED

TOWN COUNCIL: _____
SIGNATURE PRINT

CONDITIONS: _____





1" ST. CONC. SURFACE
 1" VOT. CONC. 209
 TYP. (CONC. 209-A) PAVE
 SURFACE TO BE COMPLETED TO 215
 ELEVATION TO MATCH EXISTING SURFACE
 SURFACE TO BE COMPLETED TO 215
 ELEVATION TO MATCH EXISTING SURFACE

FAYATX COUNTY MODULAR ONSITE PAVING DETAIL
 (NO SCALE)

1. AREA WITHIN OF SURFACE TO BE MARKED TO INDICATE IF
 ADDITIONAL USE AVAILABLE. ALL USES MUST BE APPROVED BY THE
 TOWN OF CLIFTON. MARKING SHALL BE IN ACCORDANCE WITH THE
 TOWN OF CLIFTON SIGNAGE MANUAL. MARKING SHALL BE IN ACCORDANCE
 WITH THE TOWN OF CLIFTON SIGNAGE MANUAL.

PARKING TABULATION

1. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 2. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 3. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 4. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 5. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 6. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 7. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 8. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 9. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 10. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 11. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 12. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 13. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 14. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 15. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 16. 1840 SF. 2-STORY GARAGE NET FLOOR AREA
 17. 1840 SF. 2-STORY GARAGE NET FLOOR AREA

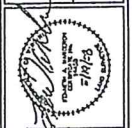
ACCESSIBLE SPACES PROVIDED = 1 SPACE (N/A ACCESSIBLE)
 ACCESSIBLE SPACES PROVIDED = 17 SPACES PROVIDED
 (INCLUDES 1 ACCESSIBLE SPACE)

SITE & GRADING PLAN

CLIFTON PROFESSIONAL OFFICES

TOWN OF CLIFTON
 FAYATX COUNTY
 DARGAZIAN ASSOCIATES, P.C.
 1000 S. WINDY ROAD
 SUITE 200
 FAYATX, TEXAS 75750
 757-592-2169 • FAX 757-531-7180

DATE 1-10-08
 SCALE 1" = 10'
 SHEET 2 OF 17
 JOB NO.
 CLIENT



UTILITY NOTE (UTILITY SERVICE)
 CONNECT TO EXISTING BUILDING LATERAL

CHAPEL ROAD - ROUTE 641
 (VARIABLE WIDTH)
 840' WIDE

Clifton Professional Offices – 12642 Chapel Road Tax Map 75-4 ((2)) 22

Total Gross Floor Area: 4779 SF

Total Net Floor Area: 3732 SF (per approved Site Plan)

PARKING TABULATION

PO Add	UNIT #	TENANT	NET FLOOR AREA	Parking Required	USE PERMIT APPROVAL DATE
NA	Office 1	Fullerton & Knowles	185 SF		
"	Office 2	-----	144 SF		
"	Office 3	-----	141 SF		
"	Office 6	Vacant	154 SF		
"	Office 7	-----	155 SF		
"	Office 12	-----	166 SF		
"	Office 13	-----	239 SF		
"	Office 18	Conference	180 SF		
	Sub-Total	Fullerton & Knowles	1505 SF	5	8/31/09
H	Office 8	vacant	155 SF		
F	Office 9	Kauffman Group, Inc.	178.5 SF		
I	Office 10	Coticelli Group, LLC	141 SF	1	
	Office 11	File room	81 SF		
	Office 14	Core Outdoor	95 SF		
C	Office 15	Core Outdoor	180 SF	3	
D	Office 16	Signature Aesthetics LLC	146 SF	1	
E	Office 17	Core Outdoor	141 SF		
G	Office 19	Vacant	80 SF		
B	Suite B Garage	C S Design Studio, LLC	360 SF	2	

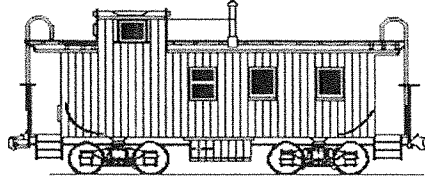
Total Parking Spaces Required: 12

Total Parking Spaces Provided: 17

Number of Loading Spaces: 1

Number of Handicap Spaces: 1

Revision Date April 15, 2022



TOWN OF CLIFTON, VIRGINIA

Use Permit Application

Property Address: 12642 Chapel Road		Date: [Month / Year] April 15, 2022		
1. Type of Permit:	<input type="checkbox"/> Construction	<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential	<input type="checkbox"/> Home Business (Code 9-19.c1)
	<input type="checkbox"/> Preliminary Site Plans Attached	<input checked="" type="checkbox"/> Office <input type="checkbox"/> Retail		
	<input type="checkbox"/> Special Use	<input type="checkbox"/> Subdivision (Code Chapter 10)	<input type="checkbox"/> Boundary Line Adjustment/Lot Consolidation (Code 10-57 to Code 10-59)	<input type="checkbox"/> Public Use
	<input type="checkbox"/> Restaurant			
	<input type="checkbox"/> Bed & Breakfast			
	<input type="checkbox"/> Multi-Family			
2. Name of Applicant: Kauffman Group, Inc. c/o Glenn Kauffman P.O. Box 1542				
Mailing Address: 42868-C Durham Court Leesburg, VA 20122-8542				
Phone: GnK@thekauffmangroup.com Glenn Kauffman 703-737-7371				
Email Address: Cell: 571-437-4829				
3. Name of Property Owner (if different): Clifton Professional Offices, LLC				
Mailing Address: 12642 Chapel Road Clifton, VA 20124				
4. Name of Business / Organization: Kauffman Group, Inc.				
5. Owner of Business / Organization: Glenn Kauffman				
6. Tax Map Number: 0754 02 0022				
7. Attach a plat or plan drawn to scale showing the proposed construction, certified by an engineer, surveyor, architect, authorized to practice as such by VA, together with a surveyed plat of the property indicating all building and structure setbacks and height. <input checked="" type="checkbox"/> Plat Attached (Construction completed in 2009)				

8. Attach Floor Plan to Scale (non-residential & home business):					<input checked="" type="checkbox"/> Floor Plan Attached				
9. Zoning District of Premises:	<input type="checkbox"/> Residential (Code 9-19)	<input checked="" type="checkbox"/> Commercial (Code 9-21)	<input type="checkbox"/> Agricultural (Code 9-20)	<input type="checkbox"/> Industrial (Code 9-22)					
	<input type="checkbox"/> Church, Park, Community Building		<input type="checkbox"/> Community Open Space & Recreation (COSR) (Code 9-23A)		<input type="checkbox"/> Low Impact Commercial (Code 9-23B)				
10. Describe Purpose of Application: Alternative office for existing business in Leesburg									
10. If Commercial, Home Business, Agricultural or Industrial: Commercial									
11. Describe Operation: Part time office									
11.a. If Non-Residential - Office Use: _____ SF or Retail/Restaurant Use: _____ SF									
11.b. Days & Hours of Operation (include special events): Sporadic. Mostly weekends and evenings 3-4 hours 2 or 3 days a week.									
11.c. Number of Employees on Site at any One Time: <u>1</u>									
11.d. Number of Seats (Restaurant/Church): Total: _____. If applicable, provide number of seats located Inside: _____ and; Outside: _____									
11.e. Gross Floor Area (GFA) of Building or /Premises: <u>178.5 sq ft</u> SF (Code 9-13) Net Gross Floor Area if more than one use in building: _____ SF If applicable, GFA devoted to carry-out service within restaurant: _____ SF									
11.f. Number of Off-street Parking Spaces Required: <u>1</u> (Code 9-13)									
11.g. Number of Off-street Parking Spaces Provided* (attach parking plan to scale with dimensions identifying existing and proposed parking spaces): <u>1</u>									
11.h. Gross Floor Area of Dwelling (Home Business Only): _____ SF									
12. Application Fee Enclosed: (Fee schedule in Filing Instructions) \$ <u>\$75</u>									

*PLEASE INCLUDE A PARKING TABULATION FORM FOR BUILDINGS THAT HAVE MORE THAN ONE USER IN THE BUILDING.

We hereby give James D. Fullerton the right to speak for us at any Town Planning Commision Meeting or Town Council meeting in connection with this application.

Is the applicant or owner a member of a homeowners association (HOA)? Yes No If yes, please obtain the approval of the HOA prior to submission of the application.

HOA REPRESENTATIVE (NAME/SIGNATURE) _____ DATE OF HOA APPROVAL: _____

The undersigned hereby applies for a Use Permit pursuant to Article 2, Section 9-10 of the Zoning Ordinance of the Code of Town of Clifton, Virginia. Kauffman Group, Inc. by James D. Fullerton, Attorney in Fact

APPLICANT'S SIGNATURE: _____ DATE: 4/15/22

PROPERTY OWNER SIGNATURE: _____ DATE: 4/15/22
Clifton Professional Offices, LLC
by James D. Fullerton, Managing Member

FOR TOWN USE ONLY

RECEIPT DATE: _____ DATE APPLICATION ACCEPTED: _____

APPLICATION FEE PAID: \$ _____

APPROVED DISAPPROVED

PLANNING COMMISSION: _____
SIGNATURE PRINT

CONDITIONS: _____

APPROVED DISAPPROVED

TOWN COUNCIL: _____
SIGNATURE PRINT

CONDITIONS: _____

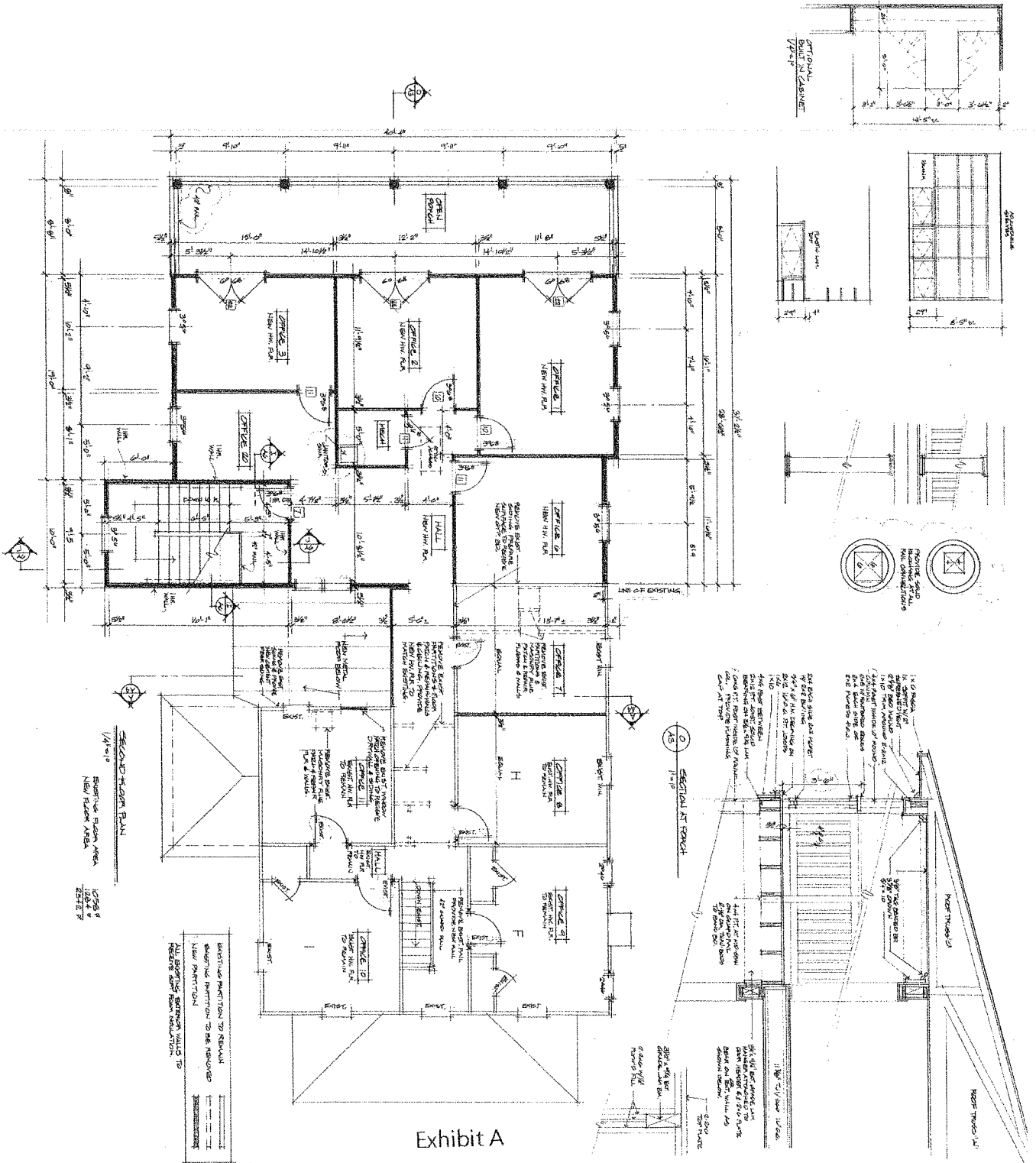


Exhibit A

Clifton Professional Offices
 13642 Chapel Rd Clifton, Virginia

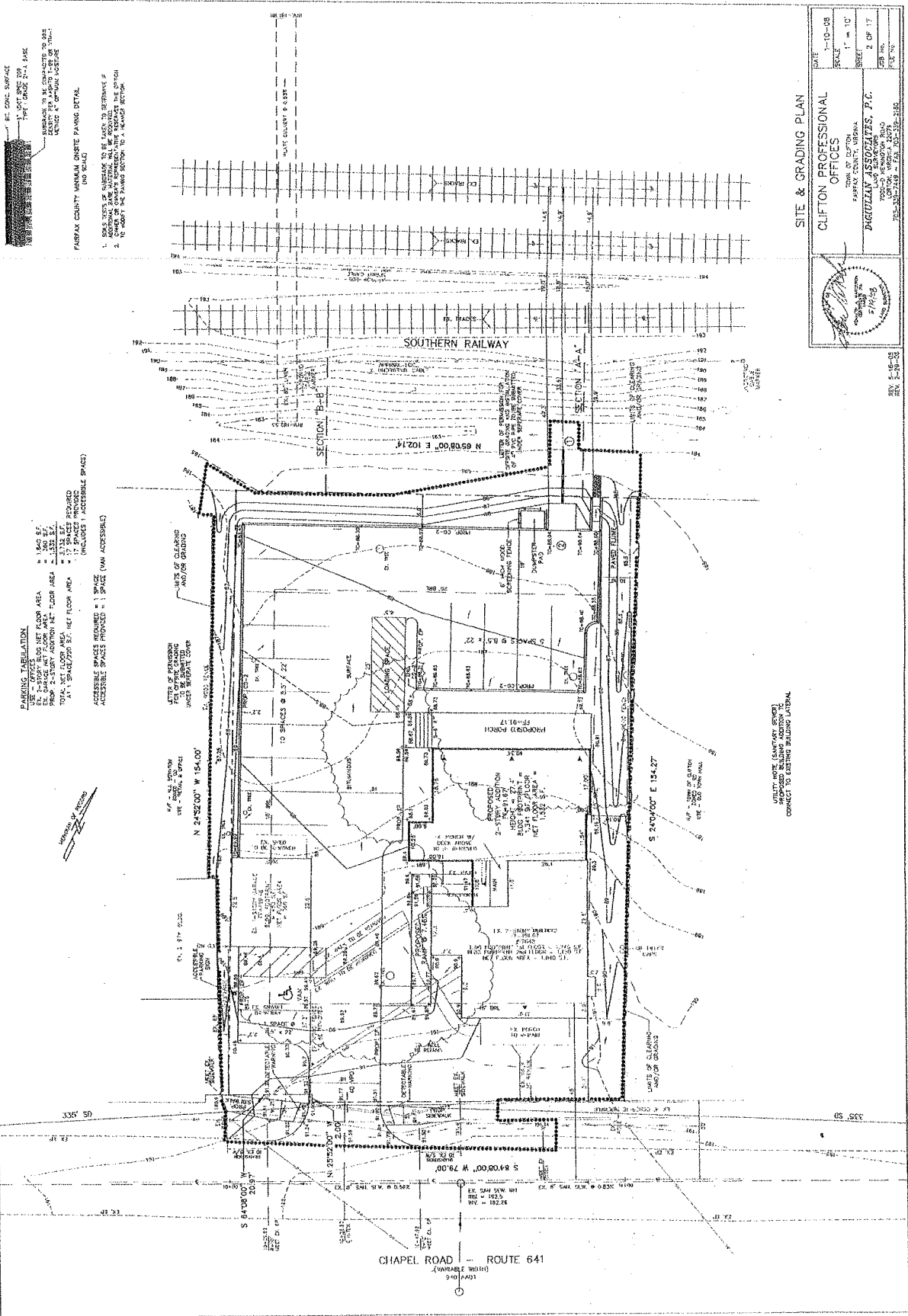
ROYCE CHARLES JARRENDT

Architect

13642 Chapel Road, Suite 212

Clifton, Virginia 23024

501-260-0124



1. RECONSTRUCT EXISTING DRIVE TO MEET LOCAL AND STATE REQUIREMENTS FOR DRIVEWAY AND DRIVEWAY APPROACH.

FAIRFAX COUNTY MINIMUM DRIVEWAY DETAIL (NO SWALE)

1. RECONSTRUCT EXISTING DRIVE TO MEET LOCAL AND STATE REQUIREMENTS FOR DRIVEWAY AND DRIVEWAY APPROACH.

2. RECONSTRUCT EXISTING DRIVE TO MEET LOCAL AND STATE REQUIREMENTS FOR DRIVEWAY AND DRIVEWAY APPROACH.

PARKING TABULATION

USE OF OFFICES FOR NET FLOOR AREA = 1,640 SF
 USE OF OFFICES FOR NET FLOOR AREA = 2,000 SF
 USE OF OFFICES FOR NET FLOOR AREA = 1,333 SF
 TOTAL NET FLOOR AREA = 4,973 SF
 TOTAL NET FLOOR AREA = 17 SPACES REQUIRED
 TOTAL NET FLOOR AREA = 17 SPACES PROVIDED (INCLUDES 1 ACCESSIBLE SPACE)

ACCESSIBLE SPACES PROVIDED = 1 SPACE (MIN ACCESSIBLE)
 ACCESSIBLE SPACES PROVIDED = 1 SPACE (MIN ACCESSIBLE)

SITE & GRADING PLAN

DATE: 1-10-08
 SCALE: 1" = 10'
 SHEET: 2 OF 17
 PROJECT: [Illegible]

CLIFTON PROFESSIONAL OFFICES
 REGISTERED PROFESSIONAL ENGINEERS
 REGISTERED PROFESSIONAL SURVEYORS
DAQUAZIA ASSOCIATES, P.C.
 REGISTERED PROFESSIONAL ENGINEERS
 REGISTERED PROFESSIONAL SURVEYORS
 7535-200-2418 - FAX: 753-59-1558

REV. 1-10-08

APPROVED FOR THE CITY OF FARMERSVILLE
 APPROVED BUILDING OFFICIAL TO
 CONNECT TO EXISTING BUILDING LATERAL

Exhibit B

Clifton Professional Offices – 12642 Chapel Road Tax Map 75-4 ((2)) 22

Total Gross Floor Area: 4779 SF

Total Net Floor Area: 3732 SF (per approved Site Plan)

PARKING TABULATION

PO Add	UNIT #	TENANT	NET FLOOR AREA	Parking Required	USE PERMIT APPROVAL DATE
NA	Office 1	Fullerton & Knowles	185 SF		
"	Office 2	-----	144 SF		
"	Office 3	-----	141 SF		
"	Office 6	Vacant	154 SF		
"	Office 7	-----	155 SF		
"	Office 12	-----	166 SF		
"	Office 13	-----	239 SF		
"	Office 18	Conference	180 SF		
	Sub-Total	Fullerton & Knowles	1505 SF	5	8/31/09
H	Office 8	vacant	155 SF		
F	Office 9	Kauffman Group, Inc.	178.5 SF		
I	Office 10	Coticelli Group, LLC	141 SF	1	
	Office 11	File room	81 SF		
	Office 14	Core Outdoor	95 SF		
C	Office 15	Core Outdoor	180 SF	3	
D	Office 16	Signature Aesthetics LLC	146 SF	1	
E	Office 17	Core Outdoor	141 SF		
G	Office 19	Vacant	80 SF		
B	Suite B Garage	C S Design Studio, LLC	360 SF	2	

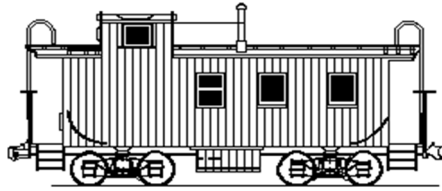
Total Parking Spaces Required: 12

Total Parking Spaces Provided: 17

Number of Loading Spaces: 1

Number of Handicap Spaces: 1

Revision Date April 15, 2022



TOWN OF CLIFTON, VIRGINIA

Use Permit Application

Property Address: 12642 Chapel Road		Date: [Month / Year] April 18, 2022		
1. Type of Permit:	<input type="checkbox"/> Construction	<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential	<input type="checkbox"/> Home Business (Code 9-19.c1)
	<input type="checkbox"/> Preliminary Site Plans Attached	<input checked="" type="checkbox"/> Office <input type="checkbox"/> Retail		
	<input type="checkbox"/> Special Use	<input type="checkbox"/> Subdivision (Code Chapter 10)	<input type="checkbox"/> Boundary Line Adjustment/Lot Consolidation (Code 10-57 to Code 10-59)	<input type="checkbox"/> Public Use
	<input type="checkbox"/> Restaurant			
	<input type="checkbox"/> Bed & Breakfast			
	<input type="checkbox"/> Multi-Family			
2. Name of Applicant:	Summit Real Estate LLC, t/a Summit Real Estate			
Mailing Address:	12642 Chapel Road Clifton VA 20124			
Phone:	703-830-2600 Ext #205			
Email Address:	jfullerton@fullertonlaw.com			
3. Name of Property Owner (if different):	Clifton Professional Offices, LLC			
Mailing Address:	12642 Chapel Road Clifton, VA 20124			
4. Name of Business / Organization:	Summit Real Estate LLC, t/a Summit Real Estate			
5. Owner of Business / Organization:	James D. Fullerton			
6. Tax Map Number:	0754 02 0022			
7. Attach a plat or plan drawn to scale showing the proposed construction, certified by an engineer, surveyor, architect, authorized to practice as such by VA, together with a surveyed plat of the property indicating all building and structure setbacks and height.	<input checked="" type="checkbox"/> Plat Attached (Construction completed in 2009)			

8. Attach Floor Plan to Scale (non-residential & home business): Note: All space used by Summit Real Estate already permitted to be used by Fullerton & Knowles, PC <input checked="" type="checkbox"/> Floor Plan Attached				
9. Zoning District of Premises:	<input type="checkbox"/> Residential (Code 9-19)	<input checked="" type="checkbox"/> Commercial (Code 9-21)	<input type="checkbox"/> Agricultural (Code 9-20)	<input type="checkbox"/> Industrial (Code 9-22)
	<input type="checkbox"/> Church, Park, Community Building			
	<input type="checkbox"/> Community Open Space & Recreation (COSR) (Code 9-23A)		<input type="checkbox"/> Low Impact Commercial (Code 9-23B)	
10. Describe Purpose of Application: Record Summit Real Estate as another entity using space permitted to be used by Fullerton & Knowles, PC, really just James D. Fullerton's Office 3 upstairs and occasionally the reception area. James D. Fullerton is a licensed attorney and licensed real estate broker that practices primarily as a lawyer but occasionally as a broker				
10. If Commercial, Home Business, Agricultural or Industrial: Commercial				
11. Describe Operation: Part time Real Estate Brokerage Office				
11.a. If Non-Residential - Office Use: <u>0</u> sf SF or Retail/Restaurant Use: _____ SF				
11.b. Days & Hours of Operation (include special events): Occasional and sporadic				
11.c. Number of Employees on Site at any One Time: <u>0</u>				
11.d. Number of Seats (Restaurant/Church): Total: _____. If applicable, provide number of seats located Inside: _____ and; Outside: _____				
11.e. Gross Floor Area (GFA) of Building or /Premises: _____ SF (Code 9-13) Net Gross Floor Area if more than one use in building: <u>3732</u> SF If applicable, GFA devoted to carry-out service within restaurant: _____ SF				
11.f. Number of Off-street Parking Spaces Required: 17 (Code 9-13)				
11.g. Number of Off-street Parking Spaces Provided* (attach parking plan to scale with dimensions identifying existing and proposed parking spaces): _____				
11.h. Gross Floor Area of Dwelling (Home Business Only): _____ SF				
12. Application Fee Enclosed: (Fee schedule in Filing Instructions) \$ <u>75</u>				

*PLEASE INCLUDE A PARKING TABULATION FORM FOR BUILDINGS THAT HAVE MORE THAN ONE USER IN THE BUILDING.

We hereby give James D. Fullerton the right to speak for us at any Town Planning Commission Meeting or Town Council meeting in connection with this application.

Is the applicant or owner a member of a homeowners association (HOA)? Yes No If yes, please obtain the approval of the HOA prior to submission of the application.

HOA REPRESENTATIVE (NAME/SIGNATURE) _____ DATE OF HOA APPROVAL: _____

The undersigned hereby applies for a Use Permit pursuant to Article 2, Section 9-10 of the Zoning Ordinance of the Code of Town of Clifton, Virginia.

APPLICANT'S SIGNATURE: _____ DATE: _____
Clifton Professional Offices, LLC

PROPERTY OWNER SIGNATURE: _____ DATE: _____
by James D. Fullerton, Managing Member

FOR TOWN USE ONLY

RECEIPT DATE: _____ DATE APPLICATION ACCEPTED: _____

APPLICATION FEE PAID: \$ _____

APPROVED DISAPPROVED

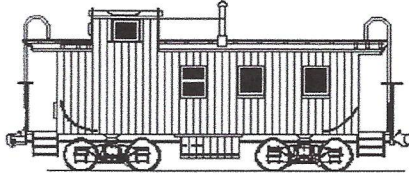
PLANNING COMMISSION: _____
SIGNATURE PRINT

CONDITIONS: _____

APPROVED DISAPPROVED

TOWN COUNCIL: _____
SIGNATURE PRINT

CONDITIONS: _____



TOWN OF CLIFTON, VIRGINIA

Use Permit Application

Property Address: 7184 Clifton Rd		Date: [Month / Year] 4/14/22		
1. Type of Permit:	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Home Business (Code 9-19.c1)
	<input type="checkbox"/> Preliminary Site Plans Attached	<input type="checkbox"/> Office <input type="checkbox"/> Retail		
	<input type="checkbox"/> Special Use	<input type="checkbox"/> Subdivision (Code Chapter 10)	<input type="checkbox"/> Boundary Line Adjustment/Lot Consolidation (Code 10-57 to Code 10-59)	<input type="checkbox"/> Public Use
	<input type="checkbox"/> Restaurant			
	<input type="checkbox"/> Bed & Breakfast			
	<input type="checkbox"/> Multi-Family			
2. Name of Applicant: Josh Snyder				
Mailing Address: 810 N Ivy St. Arlington, VA 22201				
Phone: 412-708-6708				
Email Address: Josh@HomeRep.com				
3. Name of Property Owner (if different):				
Mailing Address:				
4. Name of Business / Organization:				
5. Owner of Business / Organization:				
6. Tax Map Number: 0754 02 0106				
7. Attach a plat or plan drawn to scale showing the proposed construction, certified by an engineer, surveyor, architect, authorized to practice as such by VA, together with a surveyed plat of the property indicating all building and structure setbacks and height. <input type="checkbox"/> Plat Attached				

8. Attach Floor Plan to Scale (non-residential & home business):		<input type="checkbox"/> Floor Plan Attached		
9. Zoning District of Premises:	<input type="checkbox"/> Residential (Code 9-19)	<input type="checkbox"/> Commercial (Code 9-21)	<input type="checkbox"/> Agricultural (Code 9-20)	<input type="checkbox"/> Industrial (Code 9-22)
	<input type="checkbox"/> Church, Park, Community Building			
	<input type="checkbox"/> Community Open Space & Recreation (COSR) (Code 9-23A)		<input type="checkbox"/> Low Impact Commercial (Code 9-23B)	
10. Describe Purpose of Application: <i>Remove 2 failing wood retaining walls and replace with new concrete retaining walls. In accordance with the approved plan of development dated October 27th, 2015. Amendment to existing Use permit.</i>				
10. If Commercial, Home Business, Agricultural or Industrial:				
11. Describe Operation:				
11.a. If Non-Residential - Office Use: _____ SF or Retail/Restaurant Use: _____ SF				
11.b. Days & Hours of Operation (include special events):				
11.c. Number of Employees on Site at any One Time: _____				
11.d. Number of Seats (Restaurant/Church): Total: _____. If applicable, provide number of seats located Inside: _____ and; Outside: _____				
11.e. Gross Floor Area (GFA) of Building or /Premises: _____ SF (Code 9-13) Net Gross Floor Area if more than one use in building: _____ SF If applicable, GFA devoted to carry-out service within restaurant: _____ SF				
11.f. Number of Off-street Parking Spaces Required: _____ (Code 9-13)				
11.g. Number of Off-street Parking Spaces Provided* (attach parking plan to scale with dimensions identifying existing and proposed parking spaces): _____				
11.h. Gross Floor Area of Dwelling (Home Business Only): _____ SF				
12. Application Fee Enclosed: (Fee schedule in Filing Instructions) \$ _____				

*PLEASE INCLUDE A PARKING TABULATION FORM FOR BUILDINGS THAT HAVE MORE THAN ONE USER IN THE BUILDING.

Is the applicant or owner a member of a homeowners association (HOA)? Yes No If yes, please obtain the approval of the HOA prior to submission of the application.

HOA REPRESENTATIVE (NAME/SIGNATURE) _____ DATE OF HOA APPROVAL: _____

The undersigned hereby applies for a Use Permit pursuant to Article 2, Section 9-10 of the Zoning Ordinance of the Code of Town of Clifton, Virginia.

APPLICANT'S SIGNATURE: John L. Smith

DATE: 4/14/22

PROPERTY OWNER SIGNATURE: John L. Smith

DATE: 4/14/22

FOR TOWN USE ONLY

RECEIPT DATE: _____

DATE APPLICATION ACCEPTED: _____

APPLICATION FEE PAID: \$ _____

APPROVED DISAPPROVED

PLANNING COMMISSION: _____
SIGNATURE

PRINT

CONDITIONS: _____

APPROVED DISAPPROVED

TOWN COUNCIL: _____
SIGNATURE

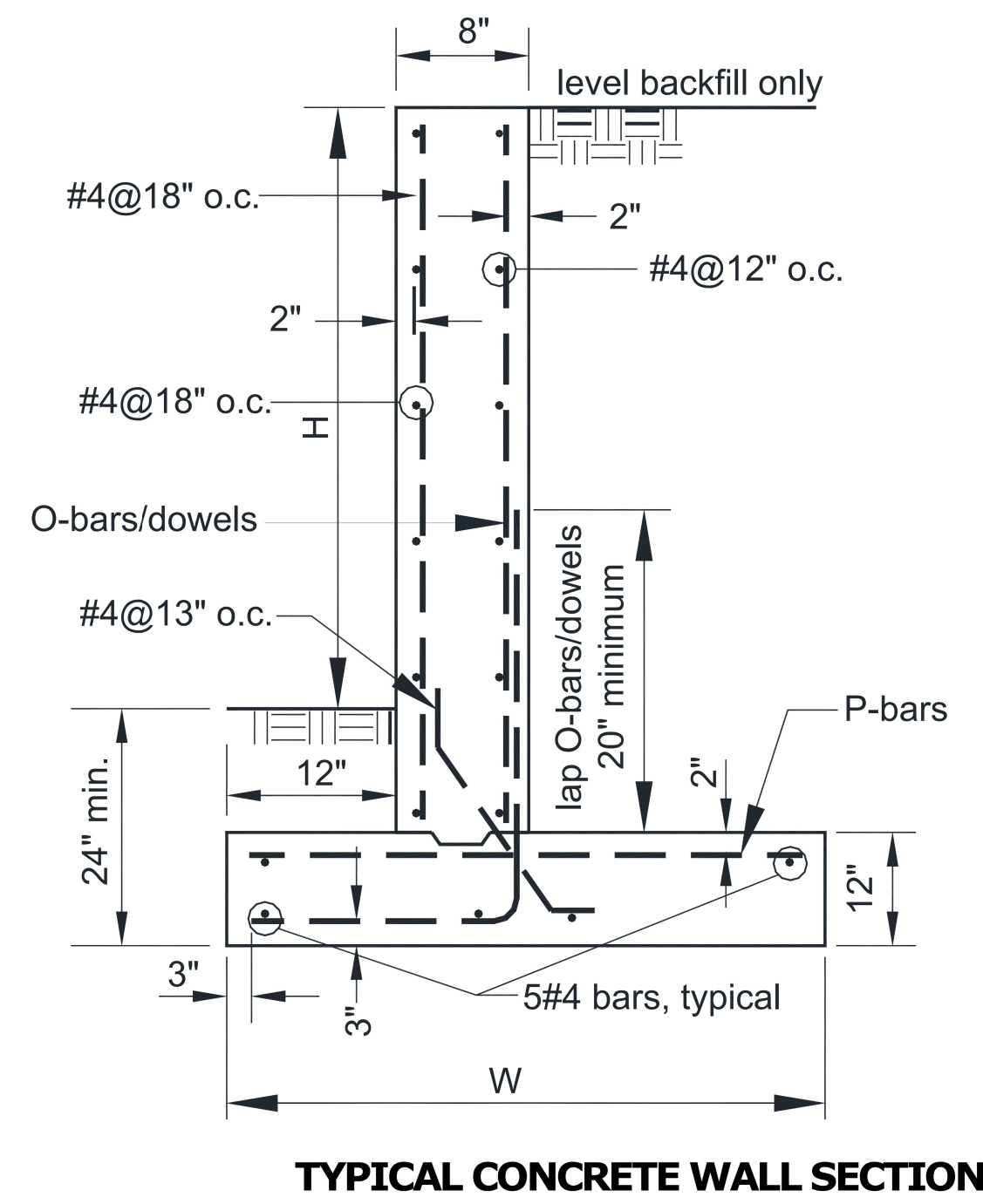
PRINT

CONDITIONS: _____

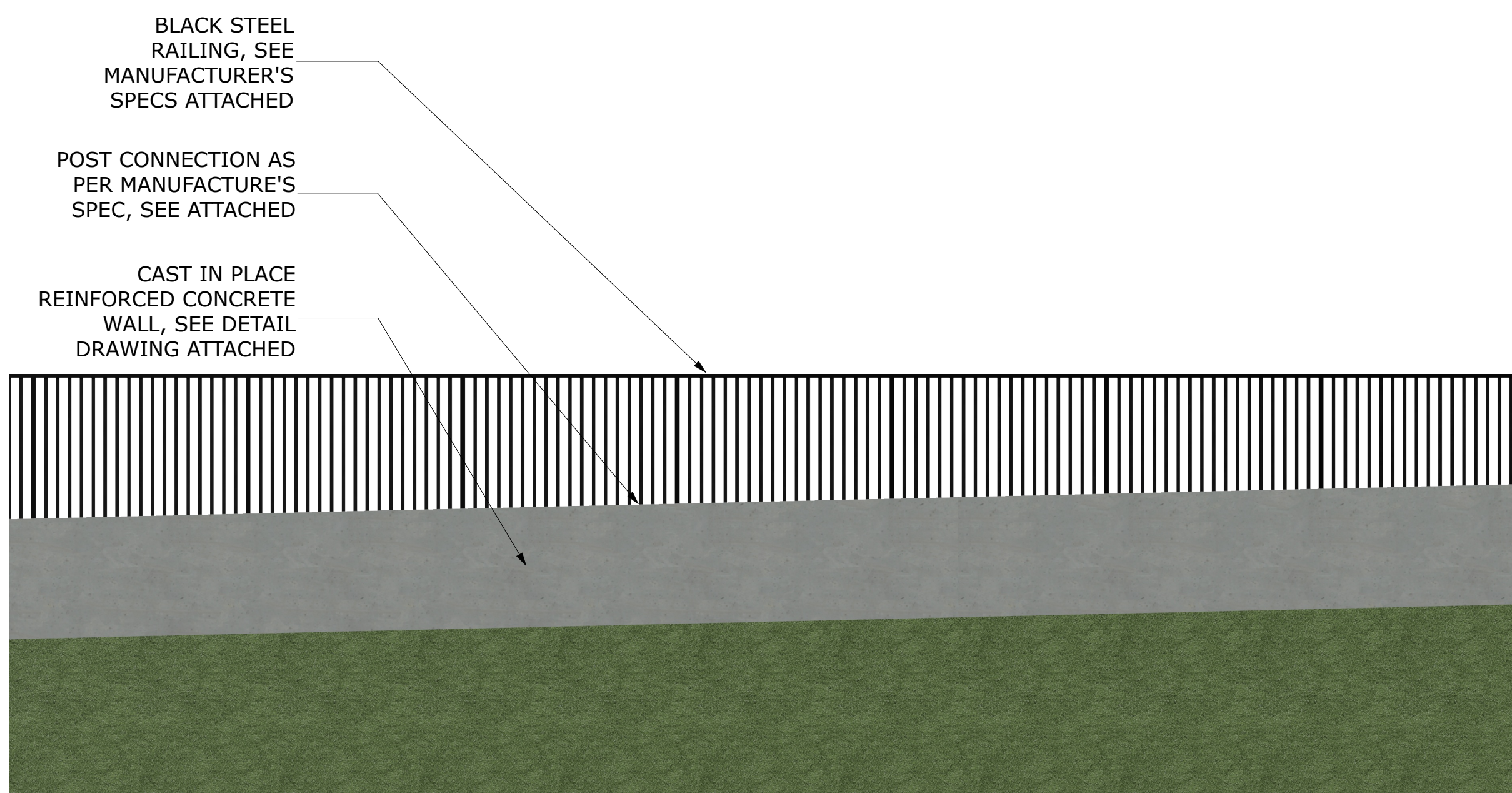
CONCRETE WALL REQUIREMENTS¹

H	W	O-bars/dowels	P-bars
24"	39"	#4@13"	#4@8"
36"	48"	#4@13"	#4@8"
48"	60"	#4@13"	#4@8"

¹Reference: Concrete Reinforcing Steel Institute



TYPICAL CONCRETE WALL SECTION



RETAINING WALL ELEVATION



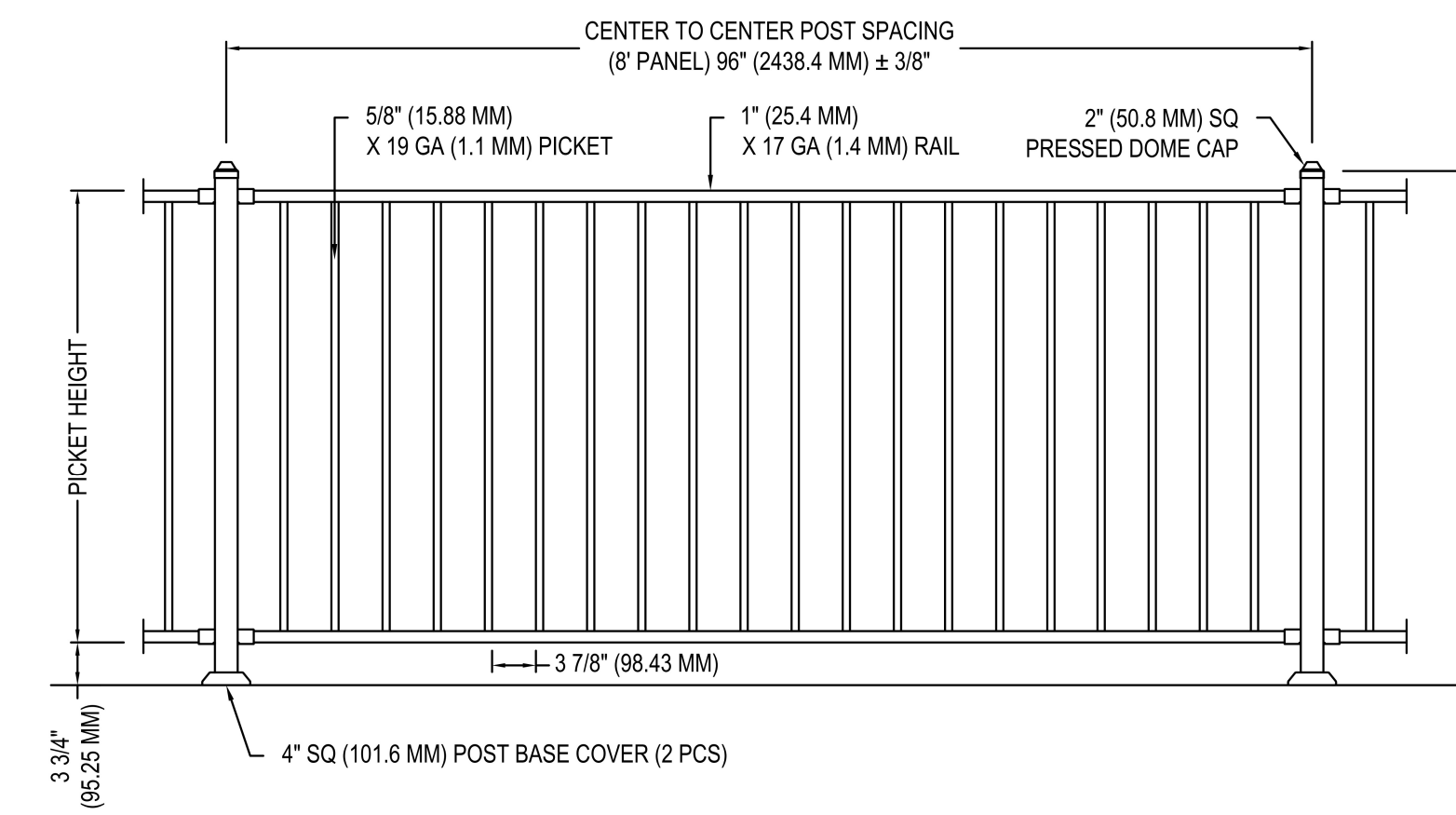
FORTRESS RAILING PRODUCTS
1720 NORTH FIRST STREET
GARLAND, TX 75040
TOLL FREE: 1-866-323-4766
FAX: (972) 644-3720
www.fortressbp.com/railing

SELECT DESIRED PICKET HEIGHT:

- 34" (863.6 MM)
- 40" (1016 MM)

SELECT DESIRED POST LENGTH:

- 39.5" (1003.3 MM)
- 45.5" (1155.7 MM)



FRONT VIEW

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. NOTE TO ARCHITECT, SCALE DRAWING IN AUTOCAD MODEL SPACE.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5171-005

FE26 IRON RAILING
FE26: 8' PANEL - RESIDENTIAL

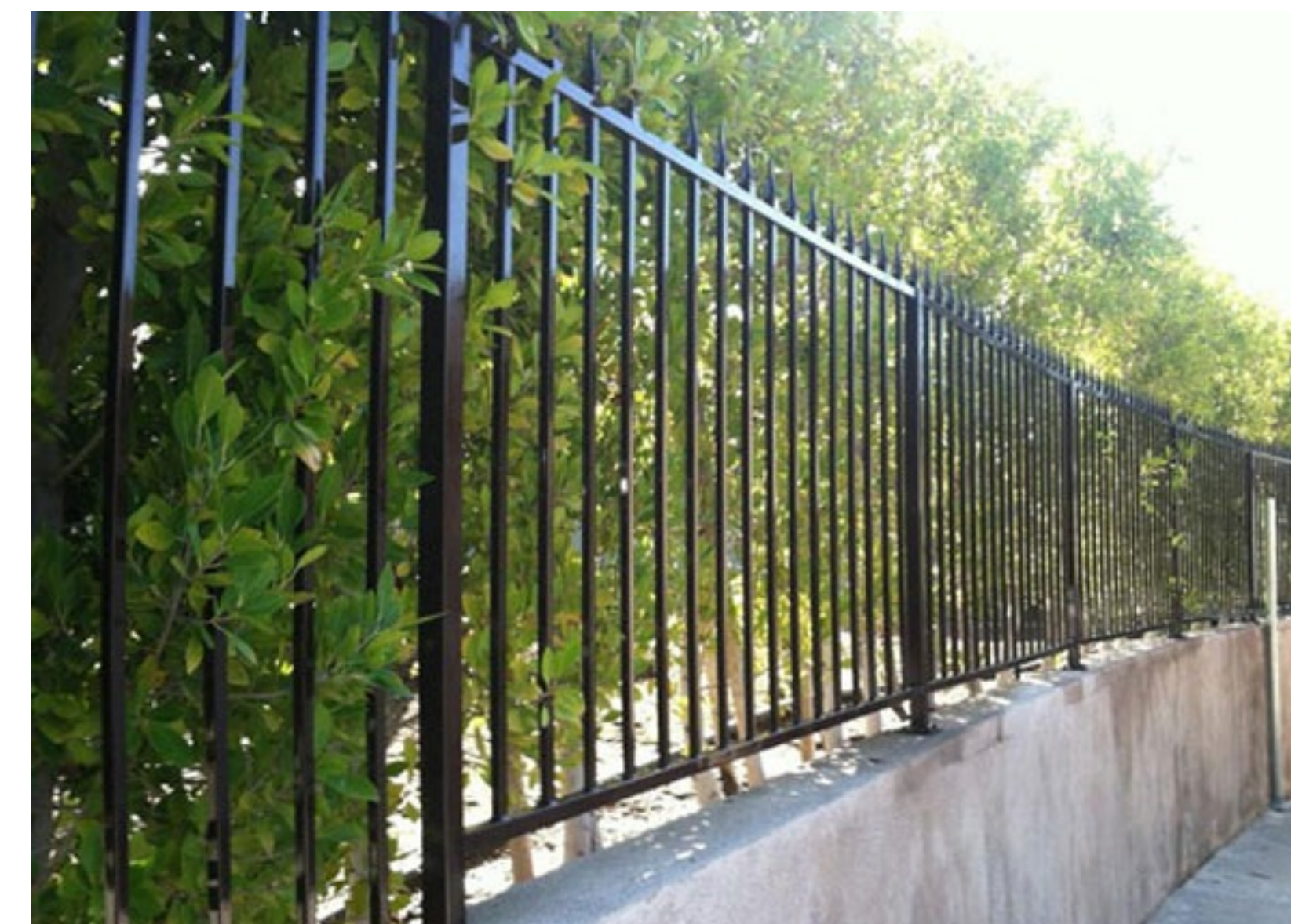
5171-005

CADdetailsPLUS™

REVISION DATE 10/08/2020

PROTECTED BY COPYRIGHT ©2020 CADDETAILS.COM LTD.

CADdetails.com



RETAINING WALL EXAMPLE



MC3 DESIGN

MC3 DESIGN

1775 TYSONS BLVD, 5TH FLR
MCLEAN, VA 22102

202.599.7779
JMCKENNA@MC3.DESIGN

DRAWN BY:

JOHN MCKENNA, AIA, NCARB
ARCHITECT

1775 TYSONS BLVD, 5TH FLR
MCLEAN, VA 22102

SEAL

CODE

2015 VIRGINIA
CONSTRUCTION CODE (IBC)

PROJECT

Retaining Wall Replacement

7184 Clifton Road
Clifton, VA 20124

REVISIONS

REVISION TABLE		
#	DATE	DESCRIPTION

SHEET TITLE

RETAINING WALL

SCALE

DATE 4/13/2022

SHEET NO.

A501

AMA ENGINEERS, LLC
CIVIL ENGINEERS • LAND SURVEYORS • PLANNERS

April 20, 2022

Re: 7184 Clifton Rd Retaining wall and Land Disturbance

To: Whom it may concern

The installation of retaining walls along the driveway and rear yard should be done within the limits of disturbance as per the approved Infill Lot Grading prepared by this firm unless otherwise revised and approved by the applicable authorities. The contractor installing the new retaining walls will be responsible for installing the super silt fence and taking all required actions to ensure land disturbance stays within the specified areas as per the approved site plan.

Sincerely,



Yogendra Maharjan
Principal
AMA Engineers LLC
3930 Pender Dr, Suite 310
Fairfax, VA 22030



April 22, 2022

Ms. Katherine Kalinowski, Chair
TOWN OF CLIFTON
PLANNING COMMISSION
P.O. Box 126
Clifton, Virginia 20124

RE: 7184 Clifton Road Retaining Wall Revision
Gordon Project Number 1620-0101 Task 124B

Dear Ms. Kalinowski:

The following comments are based on the updated drawing I that I received April 15, 2022, entitled 7184 Clifton Rd-Retaining Wall.pdf, which is a revision to the retaining wall, which includes a typical concrete wall section detail, concrete wall requirements, an iron railing, a retaining wall elevation and a retaining wall example. The wall has been revised from wood to concrete.

1. The applicant shall construct the revised concrete retaining walls as located on the 2015 approved plan entitled Infill Lot Grading Plan Lot 106 Clifton 7184 Clifton Rd, which shows one (1) retaining wall along the driveway and one (1) retaining wall in the rear yard.
2. Town Code Section 9-23 c – requires retaining wall approval from the ARB.
3. Erosion Sediment Control measures (super silt fence) shall be installed prior to any disturbance, demolition, or construction.

My recommendation to the Planning Commission is that the application be approved.

If you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,
GORDON

Scott Peterson, P.E.

cc Josh Snyder

April 21, 2022

Town of Clifton Planning Commission

Re: Response to Scott Peterson's comment letter dated April 20th 2022.

There are no changes being made to the Approved Infill Lot Grading Plan Lot 106 Clifton 7184 Clifton Rd. Replacement of two failing wood retaining walls with concrete retaining walls as shown on the grading plan. This includes the retaining wall along the driveway and the retaining wall in the rear yard.

Comment #1: The new retaining walls will be located as shown on the Approved Infill Lot Grading Plan Lot 106 Clifton 7184 Clifton Rd. All wall locations and sizes shall match the approved site plan with any existing retaining walls to be demolished. The material of the new retaining walls will be poured concrete per the detail provided.

Comment #2: Wall and grade elevations noted on the Approved Infill Lot Grading Plan Lot 106 Clifton 7184 Clifton Rd.

Comment #3: No revisions being made to the approved plan.

Comment #4: Application has been submitted for new concrete retaining walls to the Clifton ARB.

Comment #5: New Erosion Sediment Control measures such as a super silt fence will be installed per the Approved Infill Lot Grading Plan Lot 106 Clifton 7184 Clifton Rd. prior to any site disturbance activities.

Comment #6: See attached letter from engineer of record.

Sincerely,
Josh Snyder

PLAN APPROVAL INFORMATION				
RELATED INFORMATION	REQUIRED	NOT REQUIRED	COUNTY I.D. NUMBER	COMMENTS/SHEET NO.
1. RPA BOUNDARY LOCATION CERTIFICATION		X		
2. RPA DELINEATION		X		
3. CHESAPEAKE BAY ACT EXCEPTION		X		
4. FLOOD PLAIN STUDY		X		
5. DRAINAGE STUDY		X		
6. WATER QUALITY IMPACT ASSESSMENT		X		
7. SOILS REPORT	FULL LIMITED	X		
8. REZONING/SPECIAL EXCEPTION/SPECIAL PERMIT APPROVAL		X		
9. B.Z.A. VARIANCE APPROVAL		X		
10. WETLANDS/WATERS OF THE U.S. PERMIT		X		
11. FEMA LETTER OF MAP REVISION		X		
12. VEGETATED ROOF NOTE		X		
13. OVERLAY DISTRICT INFORMATION		X		
14. TREE BANKING		X		
15. TREE FUND		X		
16. MODIFICATIONS/WAIVERS		X		

REQUIRED INFORMATION

DESCRIPTION OF PROPOSED WORK: THIS PLAN IS FOR CONSTRUCTION OF A NEW 2-STORY SINGLE FAMILY DWELLING, WITH ASSOCIATED DEVELOPMENT. PLEASE REFER TO PROJECT DESCRIPTION ON SHEET 3 FOR DETAILS.

TAX MAP NUMBER	075-4-02-0106
ZONING DISTRICT	RD
MINIMUM YARD REQUIREMENTS (SETBACKS)	FY: 45', SY: 10', RY: 25'
MINIMUM LOT AREA REQUIREMENT	36,000 SQ FT
MINIMUM LOT WIDTH REQUIREMENT	150' INTERIOR /175' CORNER
TOTAL LOT AREA (SQUARE FEET OR ACRE)	57,935 SQ FT
SERVED BY (INDICATE PUBLIC WATER OR INDIVIDUAL WELL)	ONSITE WELL
SERVED BY (INDICATE PUBLIC SEWER OR INDIVIDUAL WASTEWATER MANAGEMENT SYSTEM)	ONSITE SEPTIC
BUILDING HEIGHT CERTIFICATION (LTI 06-13)	PROVIDED ON SHEET NO. 3
E&S PRIORITY RATING FORM	PROVIDED ON SHEET NO. 6
RESPONSIBLE LAND DISTURBER	NAME: _____ CERTIFICATE NO.: _____ PHONE NO.: _____ ADDRESS: _____
WATER QUALITY WAIVER INFO, IF APPLICABLE	PROVIDED ON SHEET NO.: N/A
TREE CONSERVATION PLAN	PROVIDED ON SHEET NO.: 4 & 5

- SITE INSPECTION NOTES**
- NOTIFY SITE INSPECTIONS AT 703-324-1720 PRIOR TO BEGINNING ANY WORK ON THE PROJECT. FAILURE TO NOTIFY CAN RESULT IN THE ISSUANCE OF A VIOLATION AND A SUBSEQUENT FINE FOR COMPLIANCE INSPECTION.
 - NO EARTH DISTURBANCE OR CONSTRUCTION IS ALLOWED UNTIL THE BUILDING PERMIT FOR THE PROJECT IS ISSUED. EVIDENCE OF A BUILDING PERMIT MUST BE PROVIDED TO THE SITE INSPECTOR AT THE PRE-CONSTRUCTION MEETING.
 - NOTIFY THE "MISS UTILITY" NOTIFICATION CENTER AT 1-800-552-7001 AT LEAST TWO WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION, DEMOLITION, OR BLASTING IN ACCORDANCE WITH THE VIRGINIA UNDERGROUND UTILITY DAMAGE PREVENTION ACT.

LEGALITY OF LOT CERTIFICATION (LTI 02-10)

I HEREBY CERTIFY THAT ALL APPROPRIATE COUNTY APPROVALS WERE OBTAINED IN ACCORDANCE WITH THE PROCESS REQUIRED BY THE SUBDIVISION ORDINANCE IN EFFECT AT THE TIME OF THE CREATION OF LOT(S) 106. THE LOT WAS CREATED IN ITS CONFIGURATION PRIOR TO THE ENACTMENT OF THE FAIRFAX COUNTY ZONING ORDINANCE AS EVIDENCED BY DEED DATED MARCH 18, 1925, AND RECORDED IN LIBER M-9 AT PAGE 35 IN FAIRFAX COUNTY LAND RECORDS.

WETLANDS PERMITS CERTIFICATION

I HEREBY CERTIFY THAT ALL WETLANDS PERMITS REQUIRED BY LAW WILL BE OBTAINED PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.

SIGNATURE: Bhandari 10/27/2015
OWNER/DEVELOPER: BHANDARI PREM K. AGENT
NAME: _____ TITLE: _____

INFORMATION REGARDING ACTIVITIES IN THE RESOURCE PROTECTION AREA

ACTIVITY	YES/NO
CONSTRUCTION ACTIVITIES IN A RESOURCE PROTECTION AREA (IF YES, INDICATE TYPE BELOW)	NO
REDEVELOPMENT PRINCIPAL STRUCTURE	NO
REDEVELOPMENT ACCESSORY STRUCTURE	NO
PUBLIC ROADS	NO
PRIVATE ROADS	NO
DRIVEWAYS	NO
STORMWATER OUTFALL	NO
OTHER (INDICATE TYPE):	NO

TREE PRESERVATION

TREE PRESERVATION TARGET DEVIATIONS OR MODIFICATIONS ARE BEING REQUESTED. YES NO

NOTICE OF VIOLATION

IS THIS PLAN SUBMITTED AS A RESULT OF NOTICE OF VIOLATION? YES NO

IF "YES", COPY OF NOTICE OF VIOLATION PROVIDED ON SHEET NO. _____

STORMWATER INFORMATION

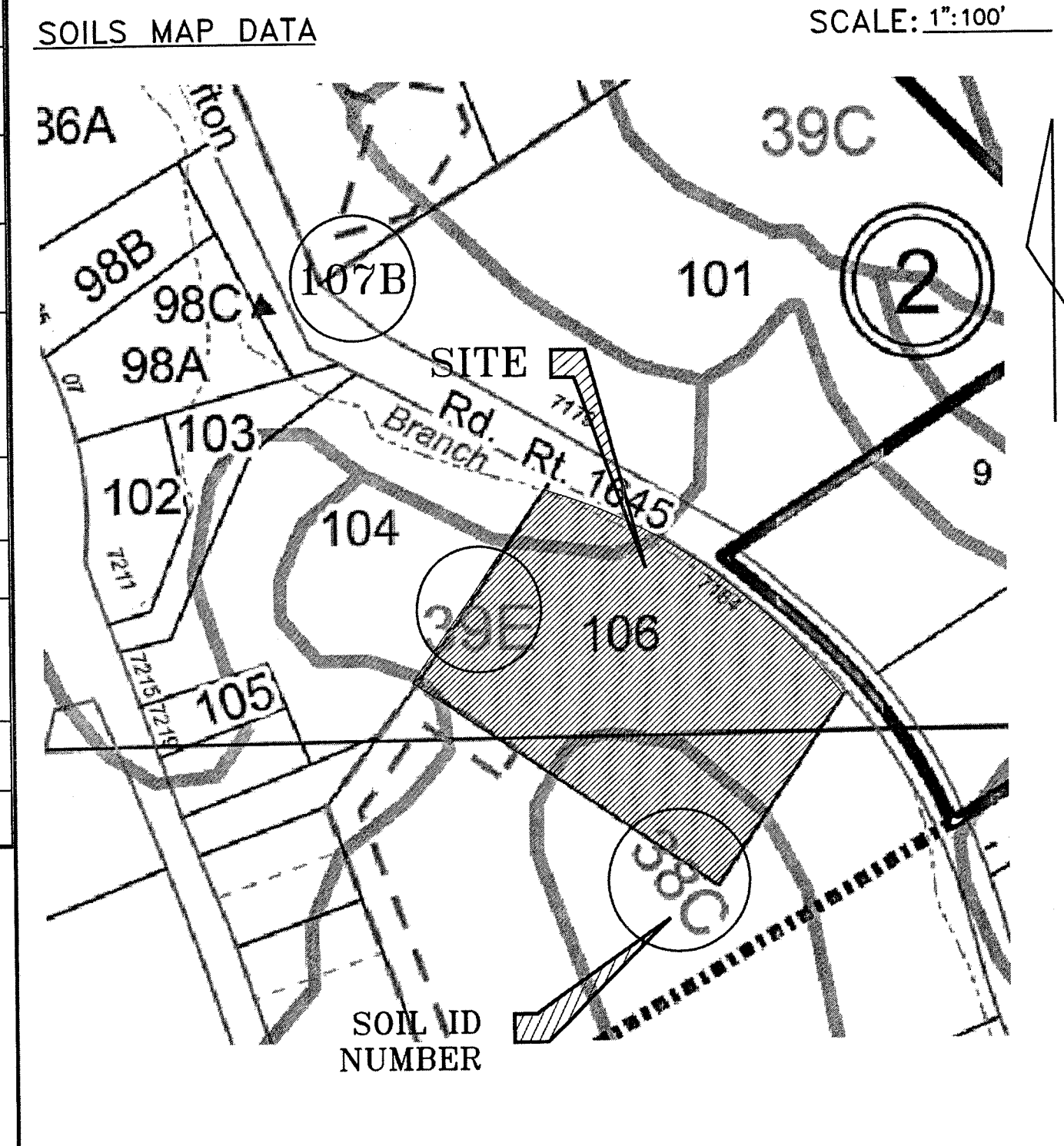
HIGH DENSITY POLYETHYLENE (HDPE) USED ON THIS PROJECT YES NO

THE PLAN MEETS: TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA

THE PLAN MEETS THE GRANDFATHERING CRITERIA

SWM FACILITIES (PROPOSED ONLY)

FACILITY ID NO.	FACILITY TYPE	PURPOSE	AREA TREATED (ACRES)	LATITUDE (DECIMAL DEGREE)	LONGITUDE (DECIMAL DEGREE)	WATERSHED	RECEIVING WATERS	MAINTENANCE AGREEMENT Y/N	VAH6 CODE	LENGTH/AREA OF FACILITY	UNIT (FT/SF)	NO. OF BLDG. SERVED (FOR ROOFTOP DISCONNECT)



SOIL ID NUMBER	SOIL HYDRO GROUP	SOIL SERIES NAME	FOUNDATION SUPPORT	SOIL DRAINAGE	EROSION POTENTIAL	PROBLEM CLASS
38	B	FAIRFAX LOAM	FAIR	GOOD	MEDIUM	I
39	B	GLENELG SILT LOAM	GOOD	GOOD	HIGH	I
107	D	WHEATON-MEADOWVILLE COMPLEX	FAIR-W.B	MARGINAL-W.S	MEDIUM	IVB

REFER TO SOIL CERTIFICATION ON SHEET 3.
IS THE SITE LOCATED WITHIN NATURALLY OCCURRING ASBESTOS SOILS? YES NO

AREAS THAT MAY CONTAIN NATURALLY OCCURRING ASBESTOS SOILS ARE LOCATED ON THE COUNTY ORANGE SOILS TAX MAP GRIDS ON THE COUNTY WEBSITE. SPECIAL PRECAUTIONS REGARDING THESE SOILS OR FILL ORIGINATING FROM THESE SOILS ARE REQUIRED BY THE OCCUPATIONAL SAFETY AND HEALTH REGULATIONS ENFORCED BY THE VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY AND SPECIAL GUIDANCE HAS BEEN ISSUED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

PRO RATA SHARE ASSESSMENT FORM

INFORMATION REQUIRED	NEW DEVELOPMENT	REDEVELOPMENT
FROM VRRM SPREADSHEET "SITE DATA" TAB: TOTAL SITE AREA (AC)	1.33	
TOTAL IMPERVIOUS COVER (AC)	0.215	
IMPERVIOUSNESS AREA INCREASE (AC)	0.105	
FROM VRRM SPREADSHEET "SUMMARY" TAB: ADJUSTED POST-DEVELOPMENT PHOSPHORUS LOAD (LB/YR)	N/A	
TOTAL RUNOFF VOLUME REDUCTION (CU FT)	N/A	

SWMO WATER QUALITY REQUIREMENT DETERMINATION

	SQUARE FEET
IMPERVIOUS AREA PROPOSED	
BUILDINGS	2,140 SQ FT
DRIVEWAYS	2,041 SQ FT
MISCELLANEOUS	393 SQ FT
TOTAL IMPERVIOUS ADDED	4,574 SQ FT
IMPERVIOUS AREA EXISTING (TO REMAIN)	4,792 SQ FT
TOTAL IMPERVIOUS AREA (PROPOSED AND EXISTING TO REMAIN)	9,366 SQ FT
TOTAL LOT AREA	57,935 SQ FT

% IMPERVIOUS EQUALS TOTAL IMPERVIOUS AREA DIVIDED BY LOT AREA MULTIPLIED BY 100
% IMPERVIOUS = 16.2% NO BMP REQUIRED

BMP REQUIRED YES NO

VPDES REQUIRED YES NO

VPDES PERMIT NO. (IF TIME LIMITS): _____

COUNTY STORMWATER PERMIT REQUIRED YES NO

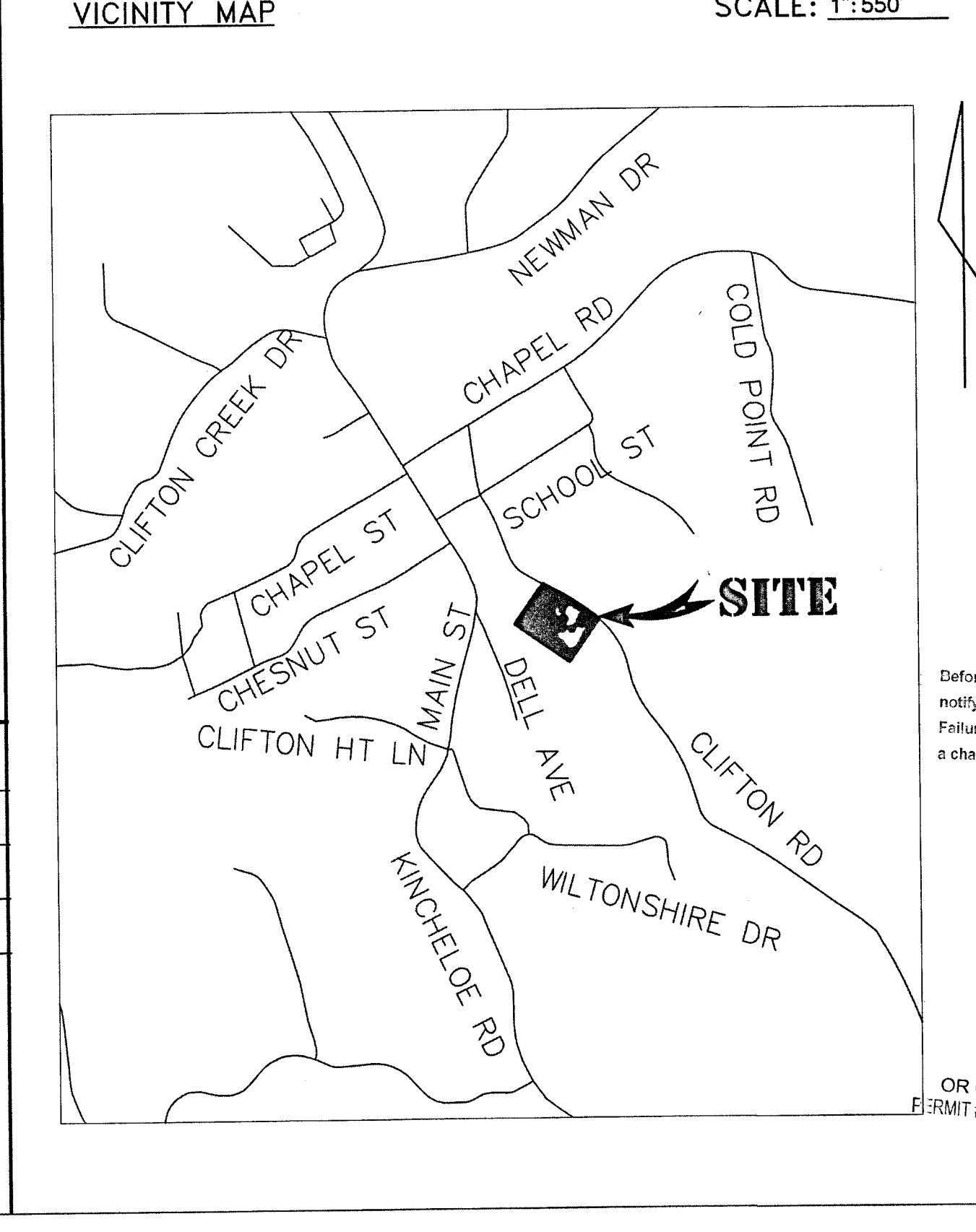
SWM FACILITIES DESIGNED USING: TECHNICAL CRITERIA 4 (NEW)
TECHNICAL CRITERIA 5 (OLD)

DISTURBED AREA (DA) WITHIN WATERSHED(S):
WATERSHED 1: POPE'S HEAD CREEK DA= 0.57 (ACRES)
WATERSHED 2: _____ DA= _____ (ACRES)
TOTAL DISTURBED AREA= 0.57 (ACRES)

OWNER INFORMATION

(X) OWNER () TRUSTEE () A CORPORATION () A PARTNERSHIP () AN INDIVIDUAL

CLIFTON HOMES AND ACREAGE LLC.
NAME: _____ PHONE: _____
5010 GADSEN DRIVE FAIRFAX, VA 22032 EMAIL: _____
ADDRESS: _____



APPROVED FOR INDIVIDUAL WASTEWATER SYSTEM AND/OR WATER WELL

DATE: _____ BY: _____ FAIRFAX COUNTY DEPARTMENT OF HEALTH

RESOURCE PROTECTION AREA

THE LIMITS OF CLEARING AND GRADING SHOWN NEAR AND/OR WITHIN THE LIMITS OF THE RESOURCE PROTECTION AREA (RPA) MUST BE STRICTLY OBSERVED AND ENFORCED. ANY ENCROACHMENT INTO, AND/OR DISTURBANCE OF, THE RPA NOT SHOWN ON THIS PLAN IS CONSIDERED A VIOLATION OF THE CHESAPEAKE BAY PRESERVATION ORDINANCE (CBPO) AND IS SUBJECT TO THE PENALTIES OF CBPO ARTICLE 9 (VIOLATIONS AND PENALTIES).

DATE: _____

APPROVED FOR GRADING ONLY ON

LOT(S) NO. _____
PARCEL(S) NO. _____

THE FOLLOWING CERTIFICATIONS BASED ON A FIELD SURVEY ARE REQUIRED PRIOR TO RUP ISSUANCE (REVIEWER TO CHECK APPROPRIATE ITEMS):

___ A BUILDING HEIGHT CERTIFICATION
___ A SETBACK CERTIFICATION

APPROVED BY: _____ PLAN REVIEWER DATE: _____

THIS APPROVAL IS NOT A COMMITMENT TO PROVIDE SANITARY SEWER.

SHEET INDEX

- COVER SHEET
- SITE GRADING PLAN
- SEPTIC DESIGN PLAN
- E&S NARRATIVE AND BUILDING HEIGHT COMPUTATIONS
- EVM & TREE CONSERVATION PLAN
- TREE CONSERVATION NOTES AND DETAILS
- E&S CONTROL NOTES AND DETAILS
- OUTFALL ANALYSIS

APPROVED COUNTY OF FAIRFAX LAND DEVELOPMENT SERVICES ENVIRONMENTAL AND SITE REVIEW DIVISION

For E&S and SWM only

DATE: 10/27/2015

DESIGN ENGINEER / SURVEYOR
AMA ENGINEERS, LLC
FIRM NAME: 3930 PENDER DRIVE, SUITE 310
ADDRESS: FAIRFAX, VIRGINIA 22030
PHONE NO: 703-273-0800 FAX NO: 703-273-0808
PROJ. MANAGER: PREM BHANDARI EMAIL: pbhandari@amaengineers.com

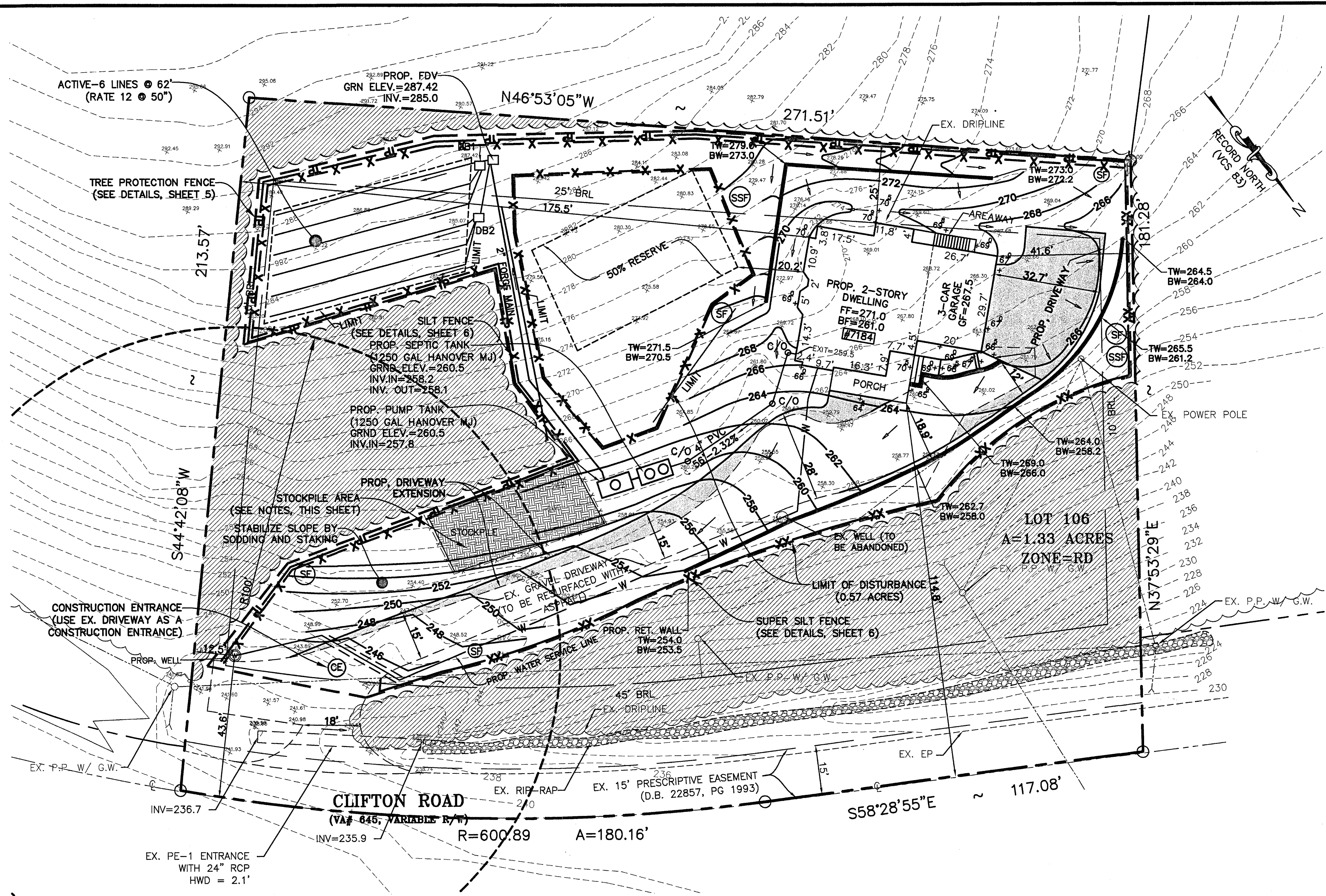
PROFESSIONAL SEAL
COMMONWEALTH OF VIRGINIA
PREM K BHANDARI
Lic. No. 042492
10/27/2015

PROFESSIONAL SEAL
COMMONWEALTH OF VIRGINIA
PREM K BHANDARI
Lic. No. 042492
10/27/2015

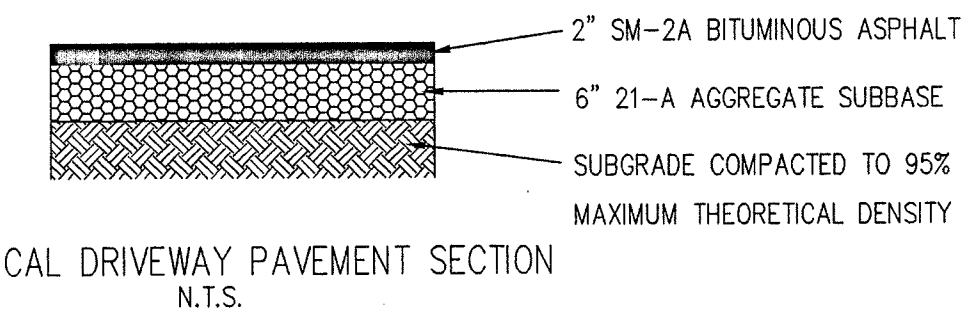
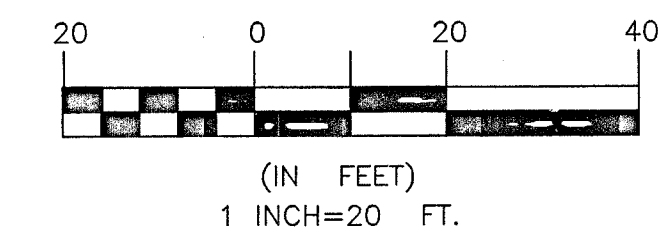
INFLILL LOT GRADING PLAN COVER SHEET
LOT 106
CLIFTON RD
7184 CLIFTON RD
DISTRICT: MASON
FAIRFAX COUNTY, VIRGINIA

COUNTY NUMBER: 9646 -INF-002-1

SHEET 1 OF 7
REVISED: 7/15



GRADING PLAN (PHASE II)
SCALE: 1"=20'



CBPO NOTES

THIS PLAN COMPLIES FULLY WITH AMENDMENT CHAPTER 118 (CHESAPEAKE BAY PRESERVATION ORDINANCE) OF THE CODE OF THE COUNTY OF FAIRFAX, EFFECTIVE NOV. 18, 2003.

CONSTRUCTION SCHEDULE:

1.	PRE-CONSTRUCTION MEETING	1 DAY
2.	INSTALL CONSTRUCTION ENTRANCE, SILT FENCE PRIOR TO ANY DISTURBANCE	2 DAYS
3.	CLEAR, GRUB, STRIP TOPSOIL AND BEGIN GRADING	3 DAYS
4.	DEMOLISH EX. HOUSE AND REMOVE DEBRIS	7 DAYS
5.	CONSTRUCTION OF HOUSE, UTILITIES, & DRIVEWAY	180 DAYS
6.	STABILIZE ALL DISTURBED AREAS UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES	5 DAYS
7.	COUNTY INSPECTION & APPROVAL OF STABILIZED SITE	2 DAYS
8.	REMOVE SEDIMENT CONTROL DEVICES WITH THE INSPECTOR APPROVAL.	1 DAY
TOTAL:		201 DAYS

SEQUENCE OF CONSTRUCTION

1. INSTALL GRAVEL CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN.
2. INSTALL SILT FENCE ALONG THE PERIMETER OF THE LIMITS OF CLEARING AND GRADING.
3. CLEAR AND GRUB SITE FOR INSTALLATION OF PERIMETER CONTROLS.
4. REMOVE DEBRIS FROM THE SITE.
5. COMPLETE NEW CONSTRUCTION AND FINAL GRADING.
6. STABILIZE ALL DISTURBED AREAS, NOT BUILT OVER OR PAVED, WITH TOPSOIL, MULCHING AND SEEDING.
7. ALL SEDIMENT AND EROSION CONTROLS ARE TO REMAIN IN PLACE UNTIL SITE IS STABILIZED AND CAN ONLY BE REMOVED AT DIRECTION OF THE COUNTY INSPECTOR.

STOCKPILE NOTES:

1. THE EXCESS DIRT SHALL BE TEMPORARILY STOCKPILED WITHIN THE LOCATION SHOWN ON THE PLAN, AND IT IS PROTECTED FROM E&S MEASURES.
2. THE GRADING/EXCAVATION CONTRACTOR FOR THE SUBJECT SITE IS REQUIRED TO NOTIFY, IN WRITING, THE ASSIGNED SITE INSPECTOR REGARDING ANY EXCESS MATERIAL PROPOSED TO BE HAULED OFFSITE PRIOR TO HAULING. THE NOTIFICATION MUST INDICATE THE QUANTITY OF MATERIAL TO BE MOVED OFFSITE, IDENTIFICATION OF THE RECEIVING SITE WHERE THE EXCESS WILL BE TAKEN, AND ALL INFORMATION NECESSARY TO SHOW THAT SUCH RECEIVING SITE HAS BEEN PROPERLY PERMITTED AND HAS E&S CONTROLS INSTALLED.
3. ALL EXCESS MATERIAL MUST BE HAULED OFFSITE PRIOR TO ANY GRADING ACTIVITY.

VIRGINIA UNIFORM CODING SYSTEM
for Erosion and Sediment Control Practices

NO.	TITLE	KEY	SYMBOL
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
3.02	WASH RACK	WR	
3.05	SILT FENCE	SF	-X-X-X-
PFM PLATE 7-11	SUPER SILT FENCE	SSF	-XX-
3.31	TEMPORARY SEEDING	TS	
3.32	PERMANENT SEEDING	PS	
3.38	TREE PROTECTION FENCE	TP	-TP-
	LIMITS OF CLEARING AND GRADING		- - - - -

TAX MAP # 0754 02 0106
JOB NO.:
SCALE: 1"=20'
DESIGN BY: DATE: 10/27/2015
DRAWN BY: SHEET: 2 OF 7
CHECKED BY:

SITE GRADING PLAN
LOT 106
CLIFTON ROAD
7184 CLIFTON ROAD
MAGISTRAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA

AMA ENGINEERS, LLC
3930 FENDER DRIVE, SUITE 310
FAIRFAX, VA-22030
TEL: 703-655-2151
amaengineers@yahoo.com

Professional Engineer Seal:
PREM K BHANDARI
Lic. No. 042602
10/27/2015
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION	BY	BY

REVISION BLOCK

DESIGN LIMITATION
 4 BEDROOMS
 1-KITCHEN
 1-LAUNDRY
 GROSS FLOOR AREA LESS THAN 7,500 SF
 RATE: 12 MPI @ 50' (ACTIVE)
 AFTER GRADE CUT
 ACTIVE: 6 LINES @ 62'
 RESERVE: 50% RESERVE

GENERAL NOTES

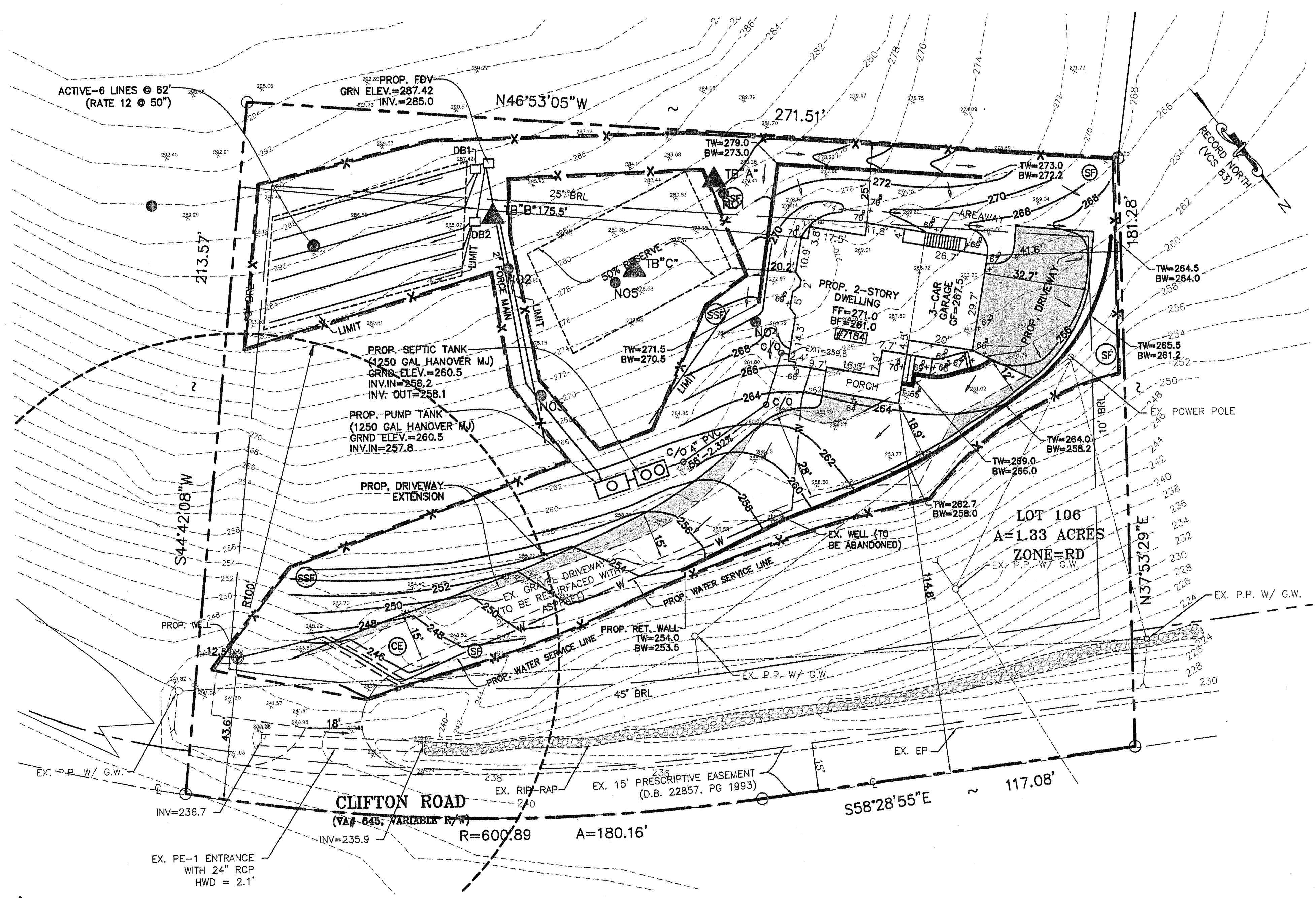
1. STUDY PURPOSE: SEPTIC DRAINFIELD DESIGN FOR 4-BEDROOM DWELLING
2. TAX MAP # 75-4-((2))-0106
3. THIS PLAT IS SUBJECT TO RESTRICTIONS OF RECORD.
4. EXISTING 2 FT CONTOUR IS BASED ON FIELD RUN TOPOGRAPHIC PERFORMED BY AMA ENGINEERS.

DRAINFIELD NOTES:

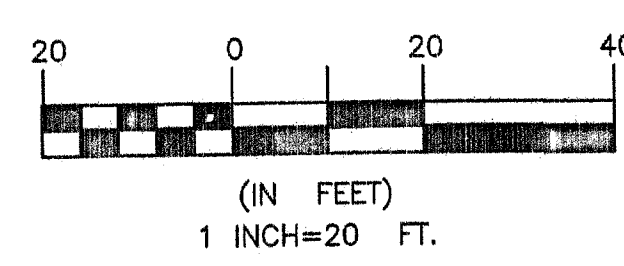
1. THE DRAINFIELD HAS BEEN DESIGNED WITH 50% RESERVE AREA AS APPROVED BY THE HEALTH DEPARTMENT.
2. SURFACE FLOW TO BE DIVERTED AWAY FROM THE LOT AND NO SURFACE WATER STAGNANT ON THE DRAINFIELD.
3. NO FILLING TO BE DONE DURING THE ACTIVE DRAINFIELD GRADING.
4. UNTREATED BUILDING PAPER OR OTHER SUITABLE MATERIAL SHALL BE PLACED AT THE INTERFACE OF THE GRAVEL AND SOIL TO PREVENT MITIGATION OF FINES TO THE BOTTOM OF THE TRENCH AND COVERED WITH TOPSOIL TO THE GROUND SURFACE.
5. THE ADSORPTION TRENCHES WILL BE BOX CUT TO THE LIMIT SHOWN ON THE PLANS, AND FINISH WITH A LEVELLED SURFACE.

STRUCTURAL AND CONSTRUCTION NOTES:

1. **SEPTIC TANK:** 1,250 GALLON CONCRETE SEPTIC TANK (HANOVER MEDIUM JOINT OR EQUIVALENT) WITH ZABEL FILTER. TANK MUST COMPLY WITH LOCAL AND STATE HEALTH DEPARTMENT REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROPER SEALING OF ALL JOINTS.
2. **PUMP TANK:** 1,250 GALLONS CONCRETE PUMP TANK (HANOVER MID JOINT OR EQUIVALENT). PUMP TANK MUST COMPLY WITH LOCAL & STATE HEALTH DEPARTMENT REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROPER SEALING TANK. PUMP TO BE ZOELLER N 161, 1/2 HP PUMPS OR EQUIVALENT. CONTROL PANEL TO BE AN AMERICAN CONTROL PANEL DEPRAB124-AJLP(C)R 1" CONDUIT, PROGRAMMABLE TIME, EVENT COUNTER AND ALARM. PUMP AND ALARM TO BE SEPARATE CIRCUITS.
3. **SEWER HOUSE CONNECTION:** 4" PVC PIPE, SCHEDULE 40, 56 FEET LONG AND INSTALLED AT THE SLOPE OF 2.32%.
4. **DRAINFIELD:**
 (A) **ACTIVE:** INSTALL ABSORPTION TRENCHES WITH 6 DRAINLINES OF 62 LF EACH & 2' WIDE AT DEPTHS OF 50 INCHES. CONTRACTOR IS RESPONSIBLE FOR STABILIZATION (GRADING AND SEEDING) OF SITE UPON COMPLETION OF INSTALLATION TO PROMOTE DRAINAGE AWAY FROM THE SITE. NO TREES WILL REMAIN OR PROPOSED WITHIN 10' OF DRAINFIELD AREA.
 (B) **RESERVE:** 50% RESERVE OF ACTIVE AREA AS INDICATED BY APPROVED LETTER ISSUED BY THE HEALTH DEPARTMENT.



SEPTIC DESIGN PLAN



APPROVED SUBJECT TO NOTATION SHOWN
 FAIRFAX COUNTY HEALTH DEPARTMENT

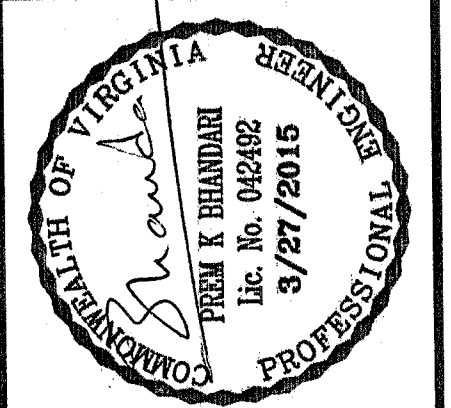
This approval is for the Site/Grading Plan only. The Health Department will not approve the Building Permit Application until it can be determined that an adequate water source is available to serve the proposed project.

10/13/15
 D/6
 Health Official

FAIRFAX COUNTY HEALTH DEPARTMENT
 DIVISION OF ENVIRONMENTAL HEALTH
 Approval of plat plan only. This is not a permit to install a water supply or a sewage disposal system. All existing or proposed underground utility lines and easements must be located a minimum of 20 feet from all subsurface disposal systems. No subsurface disposal systems may be in an underground utility easement. All water service lines must be located a minimum of 10 feet from all subsurface disposal systems.
 10/13/15
 Day
 Health Official

TAX MAP # 0754 02 0106	SCALE: 1"=20'
JOB NO.:	DATE: 3/27/2015
DESIGN BY:	DRAWN BY:
CHECKED BY:	SHEET: 2.1 of 7

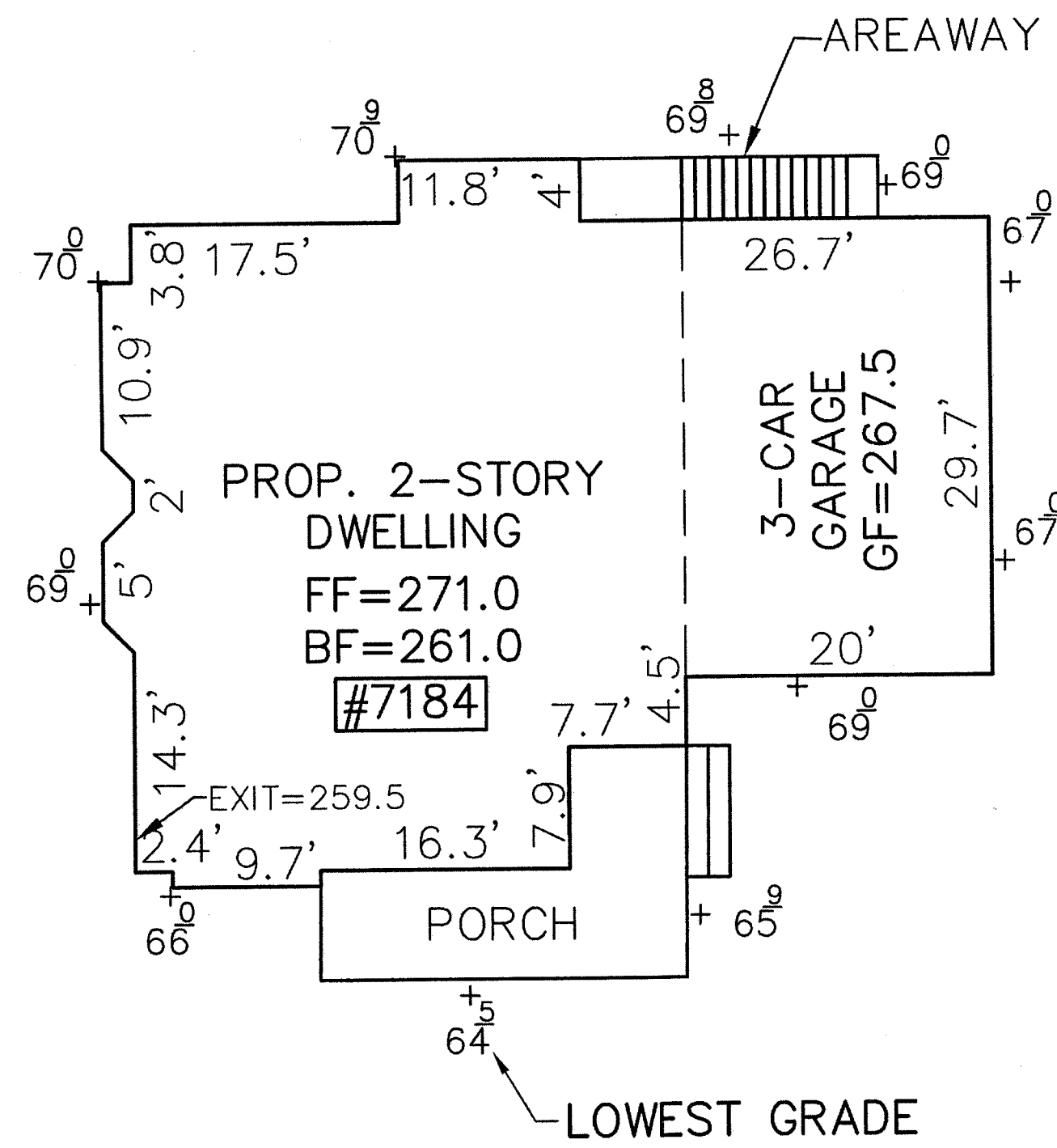
SEPTIC DRAINFIELD DESIGN
 LOT 106
 CLIFTON ROAD
 7184 CLIFTON ROAD
 MAGISTRAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA



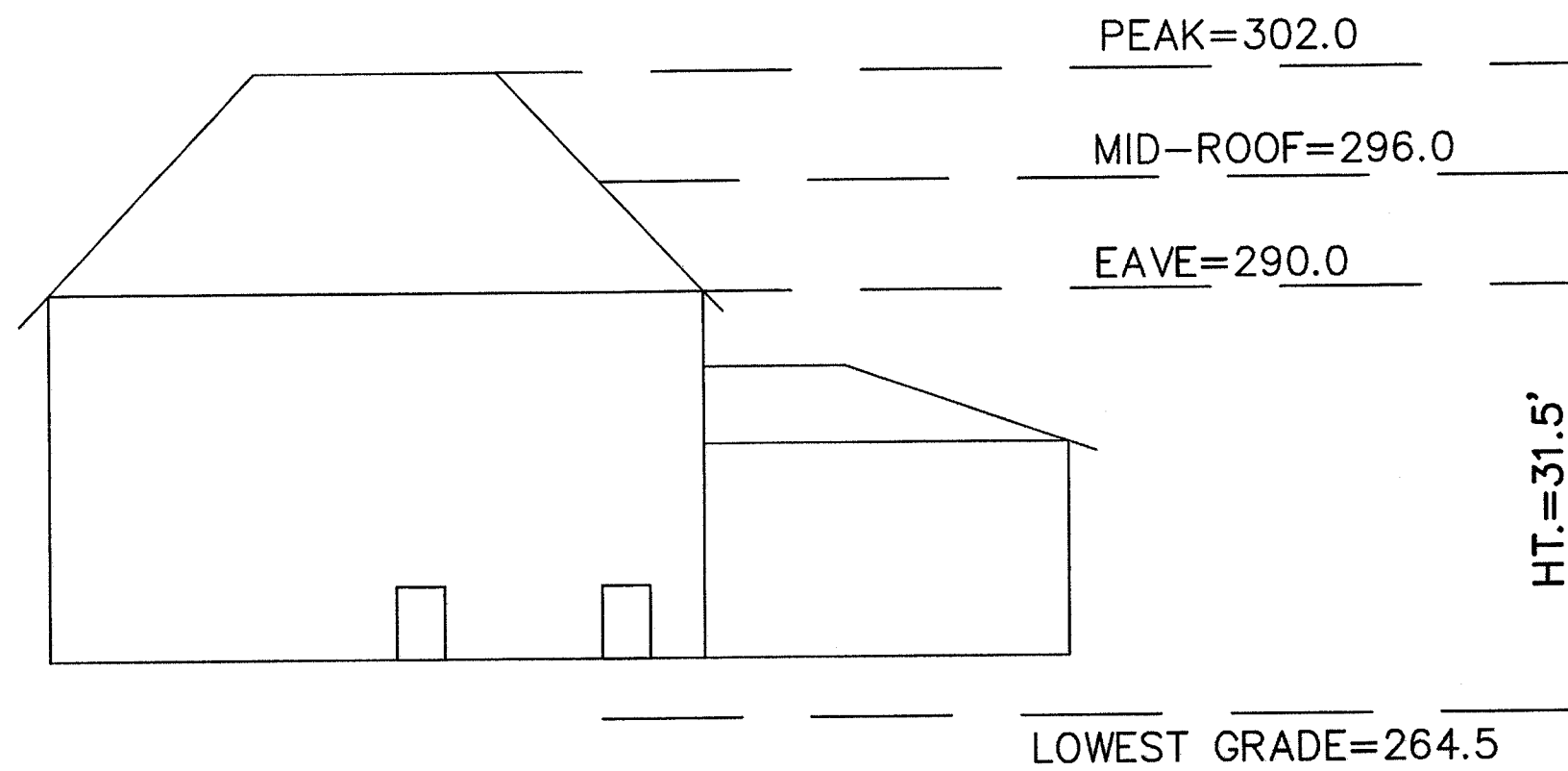
AMA ENGINEERS, LLC
 3930 PENDER DRIVE, SUITE 310
 FAIRFAX, VA-22030
 TEL: 703-655-2151
 amaengineers@yahoo.com

NO.	DATE	DESCRIPTION	BY	BY

BUILDING HEIGHT COMPUTATIONS



PROP. AND EXISTING GRADES
(SCALE: 1"=10')



FRONT ELEVATION
(SCALE: N.T.S.)

BUILDING HEIGHT COMPUTATIONS AS PER TOWN'S CODE SECTION 9-19.C.3

GENERAL NOTES

- BOUNDARY INFORMATION IS TAKEN FROM THE AVAILABLE RECORDS. NO TITLE REPORT WAS FURNISHED.
- THE LOCATIONS AND DEPTH OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE TAKEN FROM THE AVAILABLE RECORDS.
- THE LOCATIONS AND DEPTHS OF ALL THE EXISTING UNDERGROUND UTILITIES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. INTERFERENCE OR DISRUPTION OF SAME WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE TOPOGRAPHY SURVEY IS CONDUCTED BY AMA ENGINEERS AND IS BASED ON NGVD 1929 DATUM.
- SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
- NO PART OF THE LOT IS UNDER FLOODPLAIN AND COUNTY MAPPED RESOURCE PROTECTION AREA (RPA).
- WATER SERVICE PROVIDED BY A ONSITE WELL.
- SANITARY SEWER SERVICE PROVIDED BY ONSITE SEPTIC.
- NO BURIED OR VISIBLE GRAVE YARD EXISTS ON THE SITE.
- THE OWNER/CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THE EXISTING BUILDING, AND PROPOSED ADDITION WITH REFERENCE TO THE PROPERTY LINE AND SETBACK REQUIREMENTS.
- THE RETAINING WALL 3 FEET OR HIGHER NEED SEPARATE PERMIT.

IMPERVIOUS AREA COMPUTATION (SQ FT)

DESCRIPTION	TOTAL IMP. AREA	
	PRE-DEV	POST-DEV
BUILDING	-	2,140
DRIVEWAY	4,792	6,833
PORCH	-	252
STEPS, WALK	-	141
TOTAL IMPERVIOUS AREA (SQ FT)	4,792	9,366
PERVIOUS AREA/GRASS-AREA (SQ FT)	53,143	48,569
TOTAL SITE AREA (SQ FT)	57,935	57,935
INCREASE IN IMPERVIOUSNESS = 4574 SQ FT OR 7.9% OF THE EXISTING IMP. AREA		
TOTAL % OF IMPERVIOUS AREA = $\frac{9366 \times 100\%}{57935} = 16.2\%$ <18% MAX ALLOWABLE BY CBPO		
57935 NO BMP IS REQUIRED.		

"C" FACTORS CALCULATION

A. PRE-DEVELOPMENT
 $\frac{(4792 \times 0.9 + 53143 \times 0.25)}{57935} = 0.3$

B. POST-DEVELOPMENT
 $\frac{(9366 \times 0.9 + 48569 \times 0.25)}{57935} = 0.36$

RUNOFF COMPUTATION (Q=CIA)

A. PRE-DEVELOPMENT
 (5 MIN Tc) Q2 = (0.3 x 5.45 x 1.33) = 2.17 CFS
 Q10 = (0.3 x 7.27 x 1.33) = 2.9 CFS

B. POST-DEVELOPMENT
 (5 MIN Tc) Q2 = (0.36 x 5.45 x 1.33) = 2.61 CFS
 Q10 = (0.36 x 7.27 x 1.33) = 3.48 CFS

C. CHANGE IN RUNOFF
 Q10 = 3.48 - 2.9 = 0.58 CFS
 Q2 = 2.61 - 2.17 = 0.43 CFS

EXISTING UTILITY NOTE

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND AND OVERHEAD UTILITIES. IF, DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR ENCOUNTERS UTILITIES OTHER THAN THOSE INDICATED BY MISS UTILITIES AND MEMBER UTILITY COMPANIES, HE (SHE) SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE NECESSARY AND APPROPRIATE STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE. THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY MISS UTILITY @ 1-800-552-7001 AT LEAST 48 HOURS IN ADVANCE OF THE START OF ANY WORK ON THIS PROJECT.
- THE SITE CONTRACTOR /DEVELOPER MUST VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PUBLIC AND PRIVATE UTILITIES AND STRUCTURES AFFECTING THE SITE PRIOR TO THE START OF THE CONSTRUCTIONS. ANY CONFLICT WITH THE PLAN MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION. FAILURE TO VERIFY EXISTING UTILITIES MAY RESULT IN COSTLY DELAYS IN REMEDIAL MEASURES.

EROSION AND SEDIMENT CONTROL NARRATIVE :

- PROJECT DESCRIPTION**
 THE PROJECT CONSISTS OF A DEVELOPMENT OF A SINGLE FAMILY LOT 106. THE LOT IS CURRENTLY VACANT AND MOSTLY WOODED. THE DEVELOPMENT WORK CONSISTS OF CONSTRUCTION OF A NEW 2-STORY DWELLING WITH ASSOCIATED DEVELOPMENT.
 THE LOT 59 CONSISTS OF ABOUT 1.33 ACRES OF TOTAL LAND AREA, AND IT IS LOCATED AT 7184 CLIFTON ROAD, FAIRFAX COUNTY IN VIRGINIA. THE LOT WILL HAVE TOTAL IMPERVIOUS AREA OF 9,562 SQ FT, OR 16.5% OF THE LOT AREA WHICH IS LESS THAN 18% OF THE LOT AREA. THE SITE WILL DISTURB ABOUT 0.57 ACRES OF TOTAL LAND TO COMPLETE THE PROJECT. THE PROJECT WILL BE COMPLETED WITHIN A YEAR FROM THE DATE OF THE CONSTRUCTION PERMIT ISSUANCE.
- EXISTING SITE CONDITIONS**
 THE SITE IS CURRENTLY VACANT BUT CONSISTS OF AN EXISTING DRIVEWAY. THE LOT SLOPES MAINLY TO THE NORTH AND THE SLOPE RANGES FROM 15-40%. THE RUNOFF FROM THE LOT SHEET FLOWS ACROSS THE LOT TOWARDS THE DITCH LOCATED ON THE FRONT OF THE LOT. NO CONCENTRATED FLOW IS GENERATED BY THE SITE WITHIN THE DISTURBED AREA. THERE IS NO RPA ON THE LOT.
- ADJACENT AREA**
 THE LOT IS AN INTERIOR LOT AND SURROUNDED BY SIMILAR SIZE SINGLE FAMILY LOTS. IT IS SURROUNDED BY SINGLE FAMILY LOT 104 FROM THE WEST, LOT 8 FROM THE SOUTH, AND EAST AND IT FRONTS TO CLIFTON ROAD ON THE NORTH.
- OFFSITE AREAS**
 NO OFFSITE AREA WILL BE DISTURBED DURING CONSTRUCTION ACTIVITIES.
- SOILS**
 THE SOIL FOUND ON THIS LOT IS FAIRFAX LOAM (SOIL ID 38), GLENELG SILD LOAM (SOIL ID 39), AND WHEATON-MEADOWVILLE COMPLEX (SOIL ID 107). THE EROSION POTENTIAL OF THE SOIL RANGES FROM MEDIUM TO HIGH. SILT FENCE AND SUPERSILT FENCE WILL BE INSTALLED ALONG THE LIMIT OF DISTURBANCE TO PREVENT THE TRANSPORT OF SEDIMENTS. PLEASE REFER TO SHEET 1 FOR SOIL MAP AND DATA.
- CRITICAL AREAS**
 THE SITE DOES NOT APPEAR TO HAVE ANY SERIOUS EROSION PROBLEM. NO CRITICAL SLOPES EXISTS/PROPOSED ON THE SITE. NO RPA, FLOOD PLAIN OR OTHER ENVIRONMENTALLY SENSITIVE AREA EXIST ON THE SITE. THERE IS A DITCH RUNNING ALONG THE FRONT OF THE LOT.
- EROSION AND SEDIMENT CONTROL MEASURES**
 ALL SILTATION CONTROL MEASURES WILL BE INSTALLED ALONG LOW LAND OF DISTURBED AREA AS SHOWN ON THE GRADING PLAN IN PHASE I STAGE OF THE PROJECT. OWNER WILL CALL THE TOWN INSPECTOR 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION TO SCHEDULE AN INSPECTION. REFER TO SHEET 6 FOR EROSION AND SEDIMENT CONTROL SEQUENCES, PHASE I AND II. THE SPECIFICATION OF THE SILT FENCE SHALL BE AS STATED ON SHEET 6. THE CONSTRUCTION ENTRANCE WILL BE INSTALLED. STREET SWEEPING WILL BE DONE TO REMOVE ALL THE SEDIMENTS TRANSPORTED BY THE CONSTRUCTION VEHICLES TO THE PUBLIC STREET AS FREQUENTLY AS REQUIRED. ALL THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AND KEPT FUNCTIONAL AS DESCRIBED UNDER MAINTENANCE PROGRAM.
- PERMANENT STABILIZATION**
 PERMANENT OR TEMPORARY SOIL STABILIZATION WILL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SEEDING AND MULCHING ARE TO BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL NOT BE WORKED OUT FOR SEVEN OR MORE CALENDAR DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- STORMWATER RUNOFF CONSIDERATION**
 THIS PROJECT WILL RESULT IN INCREASE IN SURFACE RUNOFF AS A RESULT OF THE INCREASED IMPERVIOUS AREA. THE POST-DEVELOPMENT RUNOFF WILL INCREASE TO 3.48 CFS AND 2.61 CFS FROM THE 10-YEAR AND 2-YEAR STORM AS COMPARED TO THE PRE-DEVELOPMENT RUNOFF RATE OF 2.9 CFS AND 2.17 CFS. PLEASE REFER TO THE COMPUTATIONS ON THIS SHEET. THE OVERALL INCREASE IN RUNOFF WILL BE 0.58 CFS AND 0.43 CFS FROM THE 10-YEAR AND 2-YEAR STORMS. THE OUTFALL ANALYSIS HAS BEEN PERFORMED IN ITS EXISTING AND PROPOSED CONDITIONS AND SHOWS THAT AN ADEQUATE OUTFALL EXISTS FOR THE SITE. NO ADVERSE IMPACT WILL BE ANTICIPATED AS A RESULT OF THE INCREASED RUNOFF. THE TOTAL IMPERVIOUS AREA OF THE SITE IS LESS THAN 18%. NO BMP WILL BE REQUIRED FOR THE SITE.
- CALCULATIONS**
 THE PRE- AND POST- DEVELOPMENT RUNOFF FOR 2-YR AND 10-YR STORMS, IMPERVIOUS AREA ACREAGE CALCULATIONS, "C" FACTOR CALCULATIONS ARE PROVIDED ON THIS SHEET. THE RATIONAL METHOD HAS BEEN USED TO ESTIMATE THE PEAK RUNOFF.

CLASS IVB SOIL CERTIFICATION

THE LOT DEPICTED ON THIS INFILL LOT GRADING PLAN CONTAINS CLASS IVB SOILS.

- PROBLEM CLASS III AND CLASS IVA SOILS HAVE NOT BEEN MAPPED ON THE PROPERTY.
- THE PROJECT DOES NOT REQUIRE SHEETING AND SHORING, RETAINING WALLS OVER 6 FEET HIGH, PILE FOUNDATIONS, GEOPHERS, MAT FOUNDATION OR GROUND MODIFICATION SUCH AS DYNAMIC COMPACTION, STONE COLUMNS, VIBRA COMPACTION, CHEMICAL STABILIZATION, ETC.
- GEOTECHNICAL REPORTS ARE NOT REQUIRED UNDER ANY OTHER COUNTY REGULATION OR BUILDING CODE.
- THE MAXIMUM DEPTH OF EXISTING DISTURBED LAND ON THE PROPERTY IS LESS THAN 5 FEET.
- FOOTINGS AND FLOOR SLABS WILL BE SUPPORTED ON COMPETENT NATURAL SOILS.
- THE EXISTING SLOPES ON THE PROPERTY ARE NOT STEEPER THAN 3:1 (HORIZONTAL:VERTICAL) OR THE EXISTING SLOPES ARE STEEPER THAN 3:1 (HORIZONTAL:VERTICAL) AND THE COUNTY GEOTECHNICAL REVIEW ENGINEER HAS BEEN CONTACTED. EVALUATION OF THE SLOPES MAY BE REQUIRED DEPENDING ON THE PROPOSED HOUSE LOCATION.
- THE STRUCTURE IS LOCATED AT LEAST 15 FEET FROM THE TOP OF ANY 3:1 (HORIZONTAL:VERTICAL) OR STEEPER SLOPE AND THE INFLUENCE ZONE OF HOUSE FOOTINGS DOES NOT INTERCEPT WITH ANY SLOPE. THE INFLUENCE ZONE OF A FOOTING IS DEFINED AS THE AREA BENEATH A 45-DEGREE LINE EXTENDING OUTWARD AND DOWNWARD FROM FOOTING EXTERIOR EDGE.
- THE FOUNDATION DRAIN DETAILS ARE INCLUDED ON THE PLANS.

I HEREBY CERTIFY THAT:
 EACH OF THE ABOVE REQUIREMENTS HAS BEEN MET AND THAT ALL FIELD REVIEWS NECESSARY TO EVALUATE THESE REQUIREMENTS HAVE BEEN PERFORMED.
 SIGNATURE:

Shandari
 NAME: PREM K BHANDARI
 DATE: 10/27/2015
 VA LICENSE #: 042492

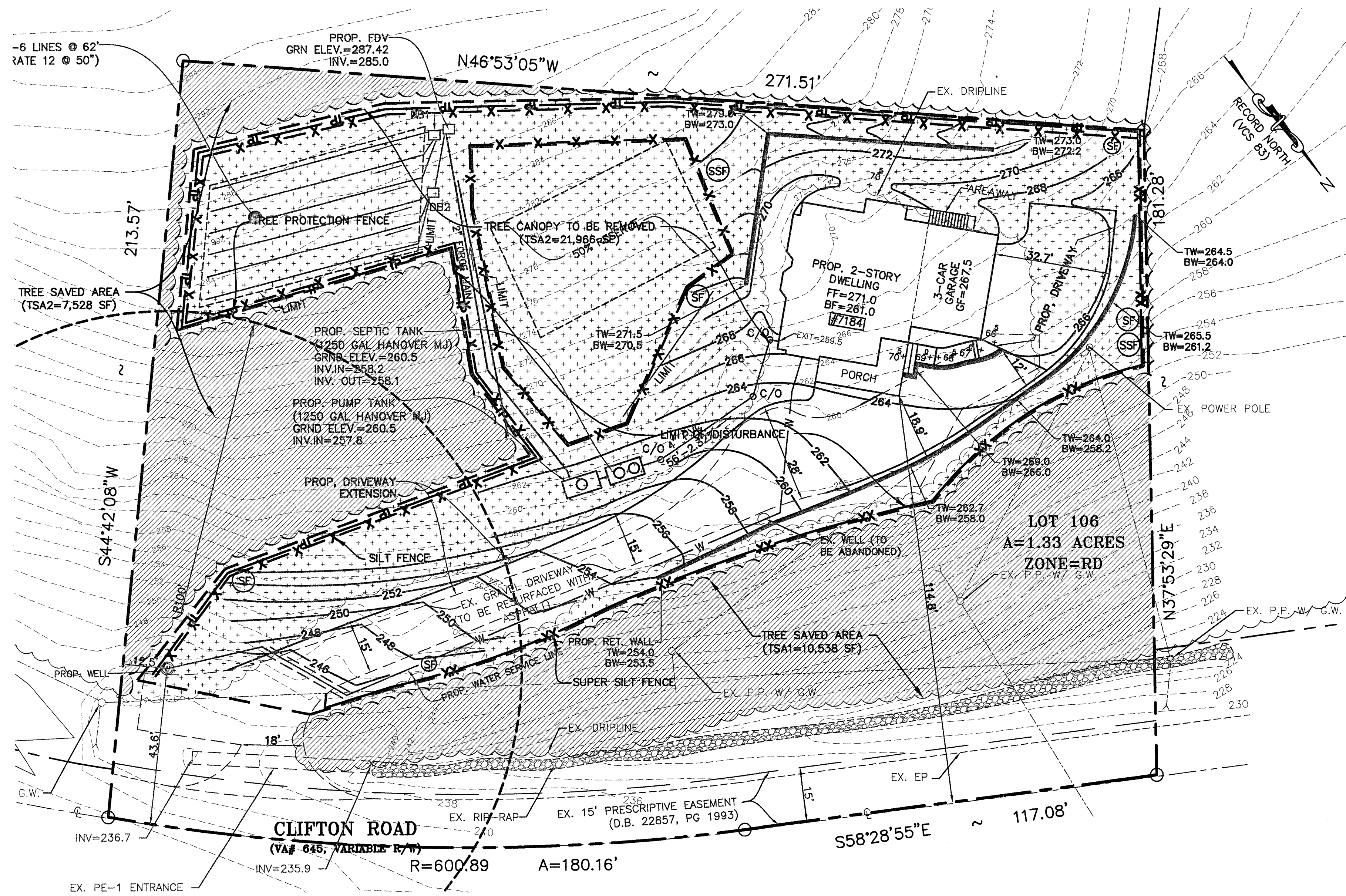
TAX MAP # 0754 02 0106	SCALE: AS NOTED	DATE: 10/27/2015	SHEET: 3 OF 7
JOB NO.:	DESIGN BY:	DRAWN BY:	CHECKED BY:

GENERAL NOTES & BLD HEIGHT COMPUTATIONS
 LOT 106
 7184 CLIFTON ROAD
 MAGISTRAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA

AMA ENGINEERS, LLC
 3930 FENDER DRIVE, SUITE 310
 FAIRFAX, VA-22030
 TEL: 703-655-2151
 amaengineers@yahoo.com

Professional Engineer
 Prem K Bhandari
 Lic. No. 042492
 10/27/2015

NO.	DATE	DESCRIPTION	REVISION



EVM & TREE PRESERVATION PLAN
SCALE: 1"=20'

EXISTING VEGETATION MAP (EVM) SUMMARY

COVER TYPE	PRIMARY SPECIES	SUCCESIONAL STAGE	CONDITION	ACERAGE	COMMENTS
UPLAND FOREST	DOMINATED BY RED MAPLE, TULIP POPLAR, AMERICAN BEECH, SOME HOLLY	EARLY SUCCESSION TO CLIMAX	FAIR - GOOD	18,066 SQ FT OR 0.42 ACRES	THESE SPECIES ARE IN GOOD CONDITION AND SIZE VARIES FROM 6-36 INCHES. ALL THESE TREES TO BE PRESERVED
MISCELLANEOUS	DOMINATED BY RED MAPLE, TULIP POPLAR, AMERICAN BEECH, SOME HOLLY	EARLY SUCCESSION TO CLIMAX	FAIR - GOOD	21,966 SQ FT OR 0.50 ACRES	THESE SPECIES ARE IN GOOD CONDITION AND SIZE VARIES FROM 6-36 INCHES. THESE TREES CANNOT SURVIVE THE CONSTRUCTION AND WILL BE REMOVED
MISCELLANEOUS	N/A	N/A	N/A	17,903 SQ FT OR 0.41 ACRES	GRASS AREA, GRAVEL, OPEN SPACE, ETC.

TOTAL AREA=1.72 AC

LEGENDS

- TP TREE PROTECTION
- X SILT FENCE
- XX SUPER SILT FENCE
- LIMIT OF DISTURBANCE

TREE PRESERVATION NARRATIVE

THE SITE PLAN CONSISTS OF THE DEMOLITION OF CONSTRUCTION OF A NEW 2-STORY SINGLE FAMILY DWELLING ON LOT 106. THE LOT IS CURRENTLY VACANT AND IS MOSTLY WOODED. THE LOT CONTAINS ABOUT 1.33 ACRES OF LAND AREA, AND IS ZONED RD.

THE LOT IS MOSTLY WOODED WITH HARDWOOD SPECIES OF TULIP POPLAR, AMERICAN BEECH, RED MAPLE, AND SOME HOLLY. THE DRIPLINE FROM BOTH ONSITE AND OFFSITE TREE AREA ARE SHOWN ON THE PLAN. THE SIZE OF TREES (DBH) RANGES FROM 6 INCHES TO 36 INCHES, AND THEIR CONDITIONS IS FAIR TO GOOD. THE OFFSITE TREES WILL REMAIN/PRESERVED BY THIS DEVELOPMENT, PLEASE REFER TO THE EVM AND TREE CONSERVATION PLANS FOR MORE DETAILS.

THE LOT CONTAINS ABOUT 40,032 SQ FT (69.1% OF THE LOT AREA) OF TOTAL TREE CANOPY AREA FROM THE ON-SITE AND OFFSITE TREES. THE PERCENTAGE OF 10-YEAR TREE CANOPY REQUIRED FOR THE SITE IS 30%. THE PERCENTAGE OF 10-YEAR CANOPY REQUIREMENT THAT SHOULD BE MET THROUGH TREE PRESERVATION IS 30%. DURING THE CONSTRUCTION, ABOUT 18,066 SQ FT OF CANOPY AREA WILL BE PRESERVED. THE PROPOSED PERCENTAGE OF CANOPY REQUIREMENTS THAT WILL BE MET THROUGH TREE PRESERVATION IS 100% WHICH IS MORE THAN THE REQUIRED OF 30%. THE 10-YR TREE COVER REQUIREMENTS FOR THE SITE IS MET BY CONSERVATION OF EXISTING TREES. A TOTAL OF 22,583 SQ FT (AFTER THE MULTIPLICATION FACTOR FOR EXISTING TREE CREDIT) OF 10-YEAR TREE CANOPY WILL BE PROVIDED BY THIS TREE CONSERVATION PLAN, WHICH WILL MEET THE MINIMUM REQUIREMENT OF 17,381 SQ FT FOR THE STUDY LOT, PLEASE REFER TO THE COMPUTATIONS ON THIS SHEET.

TREE PROTECTION FENCE/SUPER SILT FENCE SHALL BE PROVIDED AS SHOWN ON THE PLANS ALONG THE LIMIT OF CLEARING. CONSTRUCTION VEHICLE SHALL NOT ENCRUCH BEYOND THE LIMIT OF DISTURBANCE AND THE DEBRIS RESULTING FROM THE DEMOLITION WORK SHALL BE PILED WITHIN THE LOD AS SHOWN ON THE PLANS. NO TRENCHING OR STOCKING OF THE CONSTRUCTION MATERIAL OR EQUIPMENT IS ALLOWED WITHIN THE ROOT ZONE OF THE TREES TO BE PRESERVED.

TABLE 12.10 10-YEAR TREE CANOPY CALCULATION WORKSHEET

A. TREE PRESERVATION TARGET AND STATEMENT		
A1	PRE-DEVELOPMENT AREA OF EXISTING TREE CANOPY (FROM EXISTING VEGETATION MAP)=	40032 SF
A2	PERCENTAGE OF GROSS SITE AREA COVERED BY EXISTING TREE CANOPY=	69.1%
A3	PERCENTAGE OF 10-YEAR TREE CANOPY REQUIRED FOR SITE (SEE TABLE 12.4)=	30%
A4	PERCENTAGE OF THE 10-YEAR TREE CANOPY REQUIREMENT THAT SHOULD BE MET THROUGH TREE PRESERVATION=	30.0%
A5	PROPOSED PERCENTAGE OF CANOPY REQUIREMENT THAT WILL BE MET THROUGH TREE PRESERVATION=	100.0%
A6	HAS THE TREE PRESERVATION TARGET MINIMUM BEEN MET?	YES
A7	IF NO FOR A6, THEN SHEET NUMBER WHERE DEVIATION REQUEST IS LOCATED	N/A
A8	IF STEP G REQUIRES A NARRATIVE, IT SHALL BE PREPARED IN ACCORDANCE WITH § 12-0507.4	N/A
B. TREE CANOPY REQUIREMENT		
B1	TOTAL GROSS SITE AREA=	57935 SF
B2	SUBTRACT TO PARKS, ROAD FRONTAGE AND OTHERS=	0 SF
B3	SUBTRACT AREA OF EXEMPTIONS=	0 SF
B4	ADJUSTED GROSS SITE AREA (B1-B2)=	57935 SF
B5	SITE ZONE/USE=	R-1
B6	PERCENT OF 10-YEAR TREE CANOPY REQUIREMENT=	30%
B7	AREA OF 10-YEAR TREE CANOPY REQUIRED (B4xB5)=	17381 SF
B8	MODIFICATION OF 10-YEAR TREE CANOPY REQUIREMENT REQUESTED?	NO
B9	IF B8 IS YES, THEN LIST PLAN SHEET WHERE MODIFICATION REQUEST IS LOCATED=	N/A
C. TREE PRESERVATION		
C1	TREE PRESERVATION TARGET AREA=	12010 SF
C2	TOTAL CANOPY AREA MEETING STANDARDS OF § 12-0400=	18066 SF
C3	TOTAL CANOPY AREA PROVIDED BY UNIQUE OR VALUABLE FOREST OR WOODLAND COMMUNITIES=	0 SF
C4	TOTAL OF C2, C3, C4=	18066 SF
C5	TOTAL OF CANOPY AREA PROVIDED BY "HERITAGE", "MEMORIAL", "SPECIMEN" OR "STREET" TREES=	0 SF
C6	CANOPY OF TREES WITHIN THE RESOURCE PROTECTION AREAS AND 100-YEAR FLOODPLAINS=	0 SF
C7	TOTAL OF C3, C5, C6 AND C9=	22583 SF
C8	TOTAL OF C3, C5, C7 AND C9=	22583 SF
C9	TOTAL OF C3, C5, C7 AND C9=	22583 SF
C10	TOTAL OF C3, C5, C7 AND C9=	22583 SF
D. TREE PLANTING		
D1	AREA OF CANOPY TO BE MET THROUGH TREE PLANTING (B7-C10)=	0 SF
D2	AREA OF CANOPY PLANTED FOR AIR QUALITY BENEFITS=	0 SF
D3	AREA OF TREE PLANTED FOR ENERGY CONSERVATION=	0 SF
D4	AREA OF TREE PLANTED FOR WATER QUALITY BENEFITS=	0 SF
D5	AREA OF TREE PLANTED FOR WILDLIFE BENEFITS=	0 SF
D6	AREA OF CANOPY PROVIDED BY NATIVE TREES=	0 SF
D7	AREA OF CANOPY PROVIDED BY IMPROVED CULTIVARS AND VARIETIES=	0 SF
D8	AREA OF CANOPY PROVIDED THROUGH TREE SEEDLINGS=	0 SF
D9	PERCENTAGE OF D14 REPRESENTED BY D15- (MUST NOT EXCEED 33% OF D14)	0 SF
D10	TOTAL OF CANOPY AREA PROVIDED THROUGH TREE PLANTING=	0 SF
D11	IS AN OFFSITE PLANTING RELIEF REQUESTED?	NO
D12	TREE BANK OR TREE FUND? § 12-0511=	NO
D13	CANOPY AREA REQUESTED TO BE PROVIDED THROUGH OFFSITE BANKING OR TREE FUND=	0 SF
D14	AMOUNT TO BE DEPOSITED INTO THE TREE PRESERVATION AND PLANTING FUND=	0 SF
D15	TOTAL OF 10-YEAR TREE CANOPY PROVIDED	22583 SF
E1	TOTAL OF CANOPY AREA PROVIDED THROUGH TREE PRESERVATION=	22583 SF
E2	TOTAL OF CANOPY AREA PROVIDED THROUGH TREE PLANTING=	0 SF
E3	TOTAL OF CANOPY AREA PROVIDED THROUGH OFFSITE MECHANISM (D19)=	0 SF
E4	TOTAL OF 10-YEAR TREE CANOPY PROVIDED=	22583 SF

TOTAL TREE CANOPY AREA PROVIDED=22,583 SF>17,381 SF (REQUIRED), [OK]
I CERTIFY THIS PLAN MEETS BOTH THE TREE PRESERVATION TARGET (PFM 12-0501) & THE TREE CONSERVATION PLAN (PFM 12-0502) SUBMITTAL REQUIREMENTS; NO DEVIATIONS OR MODIFICATIONS TO THESE REQUIREMENTS ARE BEING REQUESTED

THIS PLAN AND COMPUTATIONS HAVE BEEN PREPARED/REVIEWED BY ISA CERTIFIED ARBORIST.
Zhandari 10/27/2015 MA-5015A
PREM K BHANDARI DATE CERTIFICATE NUMBER)

TAX MAP # 0754 02 0106
SCALE: 1"=20'
DATE: 10/27/2015
SHEET: 4 OF 7
JOB NO.:
DESIGN BY:
DRAWN BY:
CHECKED BY:
TREE PRESERVATION PLAN
LOT 106
CLIFTON ROAD
7184 CLIFTON ROAD
MAGISTRAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA

COMMONWEALTH OF VIRGINIA
PREM K BHANDARI
Lic. No. 042692
10/27/2015
PROFESSIONAL
A.M.A. ENGINEERS, LLC
3930 PENDER DRIVE, SUITE 310
FAIRFAX, VA-22030
TEL: 703-655-2151
amaengineers@yahoo.com

NO.	DATE	DESCRIPTION	BY	BY

TREE CONSERVATION PLAN NOTES & SPECIFICATIONS

PRE-CONSTRUCTION

1. PRIOR TO THE PRECONSTRUCTION MEETING, ALL ACTIVITIES PRESCRIBED ON AN APPROVED TREE CONSERVATION PLAN THAT ARE TO OCCUR PRIOR TO CONSTRUCTION SHALL BE COMPLETED.
2. WHEN AREAS SHOWN ON THE APPROVED PLANS TO BE PRESERVED DO NOT CONTAIN ANY SIGNIFICANT VEGETATION, IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO OBTAIN APPROVAL FROM THE DIRECTOR FOR AN EXEMPTION FROM PRESERVATION AND PROTECTION REQUIREMENTS PRIOR TO CLEARING THE AREA.
3. TREES LOCATED OUTSIDE OF THE LIMITS OF CLEARING AND WITHIN AREAS DESIGNATED TO BE PRESERVED THAT HAVE BEEN PRE-IDENTIFIED ON APPROVED TREE PRESERVATION PLANS AS "DEAD", "POOR CONDITION" OR "POTENTIAL HAZARD" AS PROVIDED IN § 12-0506 SHALL BE EVALUATED BY URBAN FOREST MANAGEMENT DIVISION STAFF (OR ALTERNATIVE STAFF AS DETERMINED BY THE DIRECTOR) DURING THE PRECONSTRUCTION WALK-THROUGH FOR REMOVAL DURING THE DEVELOPMENT SITE'S INITIAL LAND CLEARING OPERATIONS. IF, DURING THE PRECONSTRUCTION WALK-THROUGH, OR DURING ANY OTHER INSPECTION OF THE SITE, THE DIRECTOR IDENTIFIES ADDITIONAL TREES THAT HAVE BECOME HAZARDOUS OR A MAINTENANCE NUISANCE DUE TO THE INTRODUCTION OF A TARGET SUCH AS A STRUCTURE, OPEN SPACE FREQUENTED BY PEOPLE, OR OTHER IMPROVEMENT, REMOVAL OF THESE TREES SHALL BE REQUIRED.
4. TREES SHALL BE REMOVED BY HAND WITH A CHAIN SAW AND THE STUMP SHALL BE LEFT IN PLACE UNLESS IT IS DEEMED A HAZARD OR A MAINTENANCE NUISANCE. THE REMOVAL OF THE TRUNK OR BRANCHES OF THE FELLED TREE(S) IS NOT REQUIRED WITHIN WOODED AREAS, UNLESS SPECIFICALLY REQUIRED BY THE DIRECTOR.
5. IF DEMOLITION OF EXISTING SITE FEATURES (HOUSES, STRUCTURES, ETC.) IS TO OCCUR NEXT TO TREES TO BE PRESERVED, TREE PROTECTION SHALL BE INSTALLED BEFORE A DEMOLITION PERMIT CAN BE ISSUED.

LAND CLEARING OPERATIONS

1. PRIOR TO LAND DISTURBING ACTIVITIES, ROOT PRUNING WITH A VIBRATORY PLOW, TRENCHER OR OTHER DEVICE APPROVED BY THE DIRECTOR SHALL BE CONDUCTED ALONG THE LIMITS OF CLEARING ADJACENT TO TREE PRESERVATION AREAS.
2. TREES BEING REMOVED SHALL NOT BE FELLED, PUSHED OR PULLED INTO TREE PRESERVATION AREAS. EQUIPMENT OPERATORS SHALL NOT CLEAN ANY PART OF THEIR EQUIPMENT BY SLAMMING IT AGAINST THE TRUNKS OF TREES TO BE RETAINED.
3. TREES ON THE EDGE OF THE LIMITS OF CLEARING SHALL BE CUT DOWN BY HAND WITH A CHAINSAW. REMAINING STUMPS SHALL EITHER BE LEFT IN PLACE OR GROUND DOWN WITH A STUMP GRINDER.
4. TREES APPROVED TO BE REMOVED BY URBAN FOREST MANAGEMENT DIVISION STAFF DURING PRE-CONSTRUCTION WALK-THROUGH AS PROVIDED BY § 12-0701.3 AND § 12-0701.4 SHALL BE REMOVED IN CONJUNCTION WITH THE DEVELOPMENT SITE'S INITIAL LAND CLEARING OPERATION.
5. THE PERMITTEE MAY PRESERVE INDIVIDUAL TREES OR GROUPS OF TREES OVER AND ABOVE THAT REQUIRED BY THE APPROVED PLAN. HOWEVER, ANY ADDITIONAL TREE PRESERVATION AREA(S) SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE METHODS ALLOWED IN § 12-0703.
6. THE REMOVAL OF ANY INDIVIDUAL TREES OR TREE PRESERVATION AREAS DESIGNATED FOR PRESERVATION ON THE TREE PRESERVATION PLAN AND NARRATIVE MUST BE PRE-APPROVED BY THE DIRECTOR BY MEANS OF A REVISION TO THE APPROVED TREE CONSERVATION PLAN.

TREE AND FORESTED AREA PROTECTION

TREE PROTECTION DEVICE

1. THE PERMITTEE SHALL PROTECT THE ABOVE AND BELOW-GROUND PORTIONS OF ALL VEGETATION SHOWN ON THE APPROVED PLAN TO BE PRESERVED WITHIN AND CONTIGUOUS TO THE SITE.
2. PROTECTIVE DEVICES SHALL BE INSTALLED PRIOR TO ANY CLEARING AND GRADING WITH HEAVY EQUIPMENT.
3. THE DEVICE(S) USED SHALL BE INSTALLED IN CONFORMANCE WITH THE APPROVED TREE PRESERVATION PLAN AND NARRATIVE AND ALL CONSTRUCTION PERSONNEL SHALL BE INSTRUCTED TO HONOR THESE DEVICES.
4. THE PROTECTION DEVICES DESCRIBED SHALL BE INSTALLED AND MAINTAINED ON SITES.
5. ORANGE PLASTIC FENCE, WELDED WIRE FENCE, CHAIN LINK FENCE, SILT FENCE OR SUPER SILT FENCE MAY BE USED AS DEVICES TO PROTECT TREES AND FORESTED AREAS. THE PROTECTIVE DEVICE SHALL BE PLACED WITHIN THE DISTURBED AREA AT THE LIMITS OF CLEARING AND ERECTED AT A MINIMUM HEIGHT OF 4 FEET (1.2 METERS), EXCEPT FOR SUPER SILT FENCE WHERE HEIGHT MAY BE 3.5 FEET (1.1 METERS). THE FENCING MATERIAL SHALL BE MOUNTED ON 6-FOOT (1.8-METER) TALL STEEL POSTS DRIVEN 1.5 FEET (0.5 METERS) INTO THE GROUND AND PLACED A MAXIMUM OF 6 FEET (1.8 METERS) APART, EXCEPT FOR WELDED WIRE FENCE AND CHAIN LINK FENCE WHERE STEEL POSTS MAY BE PLACED A MAXIMUM OF 10 FEET (3.0 METERS) APART (SEE PLATE 6-12(6M-12)).
6. FILTER FABRIC FENCE OR SILT FENCE. THIS FENCING MAY BE USED FOR TREE PROTECTION WHEN PLACED AT THE LIMITS OF GRADING AND CONSTRUCTED AS SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE DIRECTOR MAY ALSO REQUIRE THE PLACEMENT OF ONE OF THE TREE PROTECTIVE DEVICES LISTED IN § 12-0703.1B IF THE FILTER FABRIC FENCE IS NOT DEEMED ADEQUATE TO PROTECT THE TREES SHOWN ON THE APPROVED PLAN TO BE PRESERVED.
7. THE PERMITTEE SHALL POST AND MAINTAIN BILINGUAL SIGNS AT THE LIMITS OF CLEARING AT A MINIMUM OF 50-FOOT (15.2-METER) INTERVALS THAT CLEARLY STATES THAT TREES AND FORESTED AREAS MUST BE PROTECTED AND LEFT UNDISTURBED. SIGNS SHALL REMAIN POSTED THROUGHOUT ALL PHASES OF CONSTRUCTION; SHALL BE ATTACHED TO THE TREE PROTECTION FENCING; AND, SHALL BE NAILED OR IN ANY MANNER ATTACHED TO THE TREES OR VEGETATION TO BE PRESERVED.

TREATMENT OF TREES AND FORESTED AREAS DURING CONSTRUCTION

1. TREES AND FORESTED AREAS SHALL BE PROTECTED AND MANAGED DURING ALL PHASES OF CONSTRUCTION IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION AND ANY SITE-SPECIFIC GUIDANCE PROVIDED WITHIN THE APPROVED TREE PRESERVATION PLAN AND NARRATIVE.
2. TREES AND FORESTED AREAS SHALL BE PROTECTED AND MANAGED DURING ALL PHASES OF CONSTRUCTION TO RETAIN THEIR PRE-DEVELOP LEVEL OF BIOLOGICAL FUNCTION, HEALTH AND STRUCTURAL CONDITION.
3. THE PERMITTEE SHALL ACTIVELY MONITOR THE CONSTRUCTION SITE TO ENSURE THAT INAPPROPRIATE ACTIVITIES SUCH AS THE STORAGE OF CONSTRUCTION MATERIALS, DUMPING OF CONSTRUCTION DEBRIS, AND TRAFFIC BY CONSTRUCTION EQUIPMENT AND PERSONNEL DO NOT OCCUR WITHIN AREAS SHOWN PRESERVED OUTSIDE OF THE LIMITS OF CLEARING.
4. TREE PROTECTION DEVICES SHALL BE MAINTAINED UNTIL ALL WORK IN THE VICINITY HAS BEEN COMPLETED AND SHALL NOT BE REMOVED OR RELOCATED WITHOUT THE CONSENT OF THE DIRECTOR.
5. IF THE DIRECTOR DEEMS THAT THE PROTECTIVE DEVICES ARE INSUFFICIENT, INSTALLATION OF ADDITIONAL PROTECTIVE DEVICES MAY BE REQUIRED.
6. HEAVY EQUIPMENT, VEHICULAR TRAFFIC, STOCKPILING OF MATERIALS OR DEPOSITION OF SEDIMENT SHALL NOT BE PERMITTED WITHIN TREE PRESERVATION AREAS.
7. NO TOXIC MATERIALS SHALL BE STORED WITHIN 100 FEET (30.5 METERS) OF VEGETATION TO BE RETAINED.
8. NO PROTECTIVE DEVICES, SIGNS, UTILITY BOXES OR OTHER OBJECTS SHALL BE NAILED OR AFFIXED TO TREES TO BE PRESERVED.
9. IN THE EVENT THAT THE DIRECTOR DETERMINES THAT A TREE OR PORTION THEREOF IS DEAD, DECLINING, HAZARDOUS, OR A PROPERTY MAINTENANCE BURDEN DUE TO CONSTRUCTION OR ENVIRONMENTAL CHANGES RESULTING FROM CONSTRUCTION; OR, IS HAZARDOUS TO LIFE OR PROPERTY BECAUSE OF CONDITIONS NOT RELATED TO CONSTRUCTION, THE DIRECTOR SHALL REQUIRE THE PERMITTEE TO REMOVE THE TREE OR PORTION THEREOF.
10. THE MAIN TRUNKS OF DEAD TREES MAY BE ALLOWED TO REMAIN ON SITES WHERE THE DIRECTOR DETERMINES THAT A "TRUNK SNAG" MAY PROVIDE HABITAT OR OTHER WILDLIFE BENEFITS AND HAVE LITTLE OR NO POTENTIAL TO CAUSE PERSONAL INJURY OR PROPERTY DAMAGE, OR TO OBSTRUCT STREAMS OR OTHER DRAINAGE.

TREATMENT OF TREES AND FORESTED AREAS DURING CONSTRUCTION CNTD...

11. WHEN EXCAVATING, TRENCHING, OR TUNNELING, ALL TREE ROOTS GREATER THAN 1 INCH (2.5 CENTIMETERS) IN DIAMETER THAT ARE EXPOSED AND/OR DAMAGED SHALL BE TRIMMED CLEANLY, AND COVERED WITH ORGANIC MULCH, TOPSOIL, OR OTHER SUITABLE MATERIAL TO PREVENT THE EXPOSED ROOTS FROM DRYING OUT. ANY DAMAGE INFLICTED TO THE ABOVE OR BELOW-GROUND PORTIONS OF THE TREES SHOWN TO BE PRESERVED SHALL BE REPAIRED IMMEDIATELY. ALL DAMAGED BRANCHES IN THE CROWN SHALL BE REPAIRED.
12. ANY PORTION OF A TREE PRESERVATION AREA THAT IS DISTURBED WITHOUT PRIOR APPROVAL OF THE DIRECTOR SHALL BE MULCHED IMMEDIATELY WITH A MINIMUM OF 4-INCHES (10.2 CENTIMETERS) OF WOOD CHIPS OR OTHER SUITABLE MATERIAL AS APPROVED BY THE DIRECTOR. TRENCHING SHALL BE DONE ONLY WITHIN THE AREAS SHOWN TO BE DISTURBED ON THE APPROVED PLAN.
13. TREES OR PRESERVATION AREAS THAT ARE DAMAGED BY TRENCHING OR TUNNELING SHALL BE MULCHED WITH WOOD CHIPS MULCH OR OTHER SUITABLE MATERIAL IMMEDIATELY AFTER THE WORK IS COMPLETED. MULCH SHALL BE PLACED 4-INCHES (10.2 CENTIMETERS) DEEP AND COVER THE ENTIRE AREA OF DISTURBANCE TO MITIGATE THE IMPACTS OF DISTURBANCE.
14. AT ARE PLANTED SHALL BE OF THE SPECIES AND SIZE SPECIFIED ON THE APPROVED PLANS. ALL TREE AND SHRUB SIZES SHALL MEET THE STANDARDS SPECIFIED IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD FOR NURSERY STOCK, (ANSI Z60.1).
15. TREE SUBSTITUTIONS WITHIN THE TREE CATEGORIES LISTED IN TABLE 12.19 ARE GENERALLY ACCEPTED UNLESS OTHERWISE SPECIFIED BY PROFFERED CONDITIONS, DEVELOPMENT CONDITIONS, SPECIAL EXCEPTIONS, SPECIAL PERMITS, OR VARIANCES AND SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
 - THE USE OF SUBSTITUTIONS SHALL NOT RESULT IN EXCEEDING THE GENUS AND SPECIES DIVERSITY LIMITS SPECIFIED IN § 12-0514.1L.
 - A LETTER SIGNED BY THE PERMITTEE SHALL BE PROVIDED TO THE DIRECTOR ACKNOWLEDGING ANY PROPOSED SUBSTITUTIONS TO TREES OR SHRUBS SHOWN ON THE APPROVED TREE CONSERVATION PLAN.

16. TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE APPROVED AND SHALL BE HEALTHY AND VIGOROUS.
17. PLANTS SHALL BE FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN-SCALD, INJURIES, ABRASIONS, DISEASES, INSECT PESTS, AND ALL FORMS OF INFESTATIONS
18. PLANTS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, (ANSI Z60.1).
19. BALLED AND BURLAPPED TREES AND SHRUBS SHALL BE DUG USING STANDARD SIZES WITH FIRM, NATURAL BALLS OF EARTH AND SECURELY WRAPPED IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK.

DELIVERY AND TEMPORARY STORAGE

1. PLANTS SHALL BE PROTECTED DURING DELIVERY TO PREVENT DESICCATION OF LEAVES. TREES AND SHRUBS SHOULD BE PLANTED ON DAY OF DELIVERY. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT UNPLANTED PLANTS BY KEEPING THEM IN SHADE, WATERED AND PROTECTED WITH SOIL, MULCH OR OTHER ACCEPTABLE MATERIAL.
2. TREES AND SHRUBS SHALL NOT REMAIN UNPLANTED FOR MORE THAN TWO WEEKS. ALL TREES AND SHRUBS SHALL BE PLANTED AS SPECIFIED IN THE LATEST EDITION OF THE "TREE AND SHRUB PLANTING GUIDELINES" PREPARED BY THE VIRGINIA COOPERATIVE EXTENSION, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY.
3. IF PLANTING IN AREAS THAT HAVE BEEN PREVIOUSLY COMPACTED, THE SOIL SHALL BE PROPERLY PREPARED (TILLED AND AMENDED AS NEEDED BASED ON SOIL SAMPLES) TO A DEPTH OF 1 FOOT (0.3 METERS), PRIOR TO INSTALLATION OF LANDSCAPE MATERIAL.
4. SOIL WITHIN INDIVIDUAL PLANTING HOLES SHALL NOT BE AMENDED. THE STAKING AND GUYING OF TREES IS NOT REQUIRED EXCEPT WHERE THE DIRECTOR DETERMINES THAT SITE CONDITIONS WARRANT THEIR USE.
5. MULCHING. ALL TREES AND SHRUBS SHALL BE MULCHED AFTER PLANTING, TO A MINIMUM DEPTH OF 2 INCHES (5.1 CENTIMETERS), BUT NO MORE THAN 3 INCHES (7.6 CENTIMETERS), WITH AN APPROPRIATE MULCH MATERIAL SUCH AS PINE BARK, PINE NEEDLES, WOOD CHIPS OR SHREDDED BARK.

PLANTING OF TRANSPLANTED TREES AND SHRUBS

1. TREES TO BE TRANSPLANTED SHALL BE FULL AND HEALTHY WITHOUT ANY SIGNIFICANT DEFECTS AND SHOULD BE ABLE TO OVERCOME ROOT DISTURBANCE.
2. TIMING RELOCATING DECIDUOUS TREES IS BEST CARRIED OUT IN LATE FALL OR EARLY SPRING.
3. RELOCATING EVERGREEN TREES IS BEST CARRIED OUT IN THE EARLY SPRING.
4. TREATMENT BEFORE, DURING AND AFTER TRANSPLANTATION:
 - TREES TO BE TRANSPLANTED SHALL BE PRUNED TO CLEAN DEAD, BROKEN, AND DISEASED LIMBS
 - WATERED HEAVILY BEFORE LIFTING
 - IMMEDIATELY AFTER PLANTING, THE TREE SHALL BE WELL WATERED AND TOP DRESSED WITH 2-3 INCHES OF MULCH
 - A MONITORING AND MAINTENANCE SCHEDULE SHALL BE SPECIFIED IN THE TREE TRANSPLANTING PLAN.

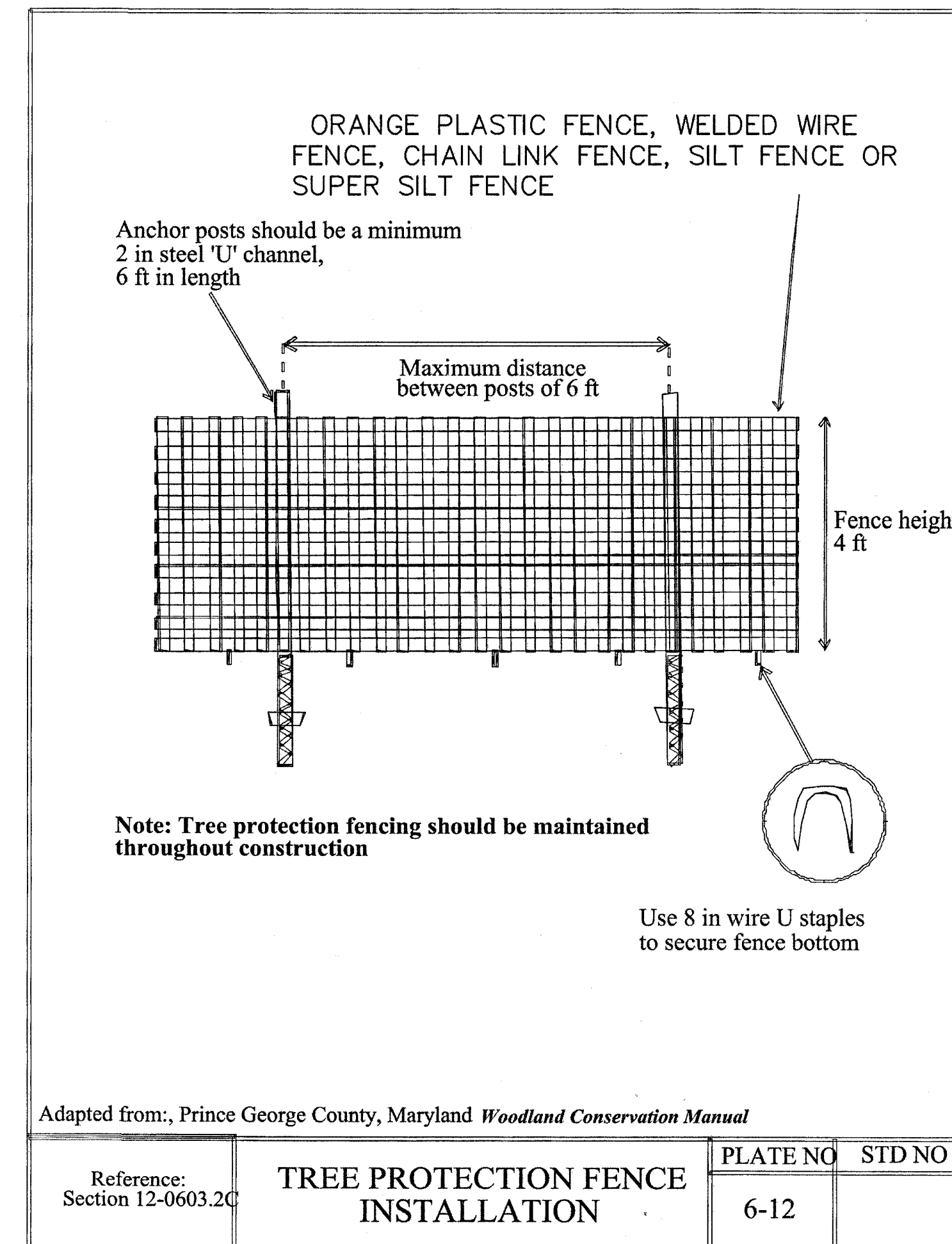
PLANTING OF SEEDLINGS, SHRUBS AND WOODY SEED MIX.

1. DENSITY. SEEDLINGS AND SHRUBS SHALL BE PLANTED AT A DENSITY OF APPROXIMATELY 400 SEEDLINGS PER ACRE (10 SEEDLINGS PER 100 SQUARE METERS) UNLESS OTHERWISE SPECIFIED.
2. SIZE AND AGE. SEEDLINGS SHALL BE AT LEAST THREE YEARS OLD AND 12 INCHES IN HEIGHT. ANY AGE CONFIGURATION IN TERMS OF INITIAL SEEDBED AGE - TO - TRANSPLANT BED AGE SUCH AS 3-0, 2-1, 1-2, ETC. IS PERMISSIBLE SO LONG AS THE TOTAL AGE IS 3 YEARS.
3. QUALITY. PLANTING STOCK SHALL BE HEALTHY AND FREE FROM INSECT AND DISEASE PESTS AND HAVE A SINGLE LEADER. THE ROOT SYSTEM IS TO BE WELL DEVELOPED, FIBROUS, AND KEPT MOIST UNTIL PLANTED.
4. TIME OF PLANTING. SEEDLINGS SHALL BE PLANTED BETWEEN THE DATES OF MARCH 1 AND MAY 15, AND NOVEMBER 15 AND DECEMBER 15 UNLESS OTHERWISE APPROVED BY THE DIRECTOR.
5. PLANTING MULCH BEDS MUST BE KEPT FREE OF ANY GRASS, WEEDS, VINES AND ANY OTHER PLANT OR CONDITION THAT MIGHT HINDER THE ESTABLISHMENT OF THE TREE CANOPY.
6. PRE-PLANTING TREATMENT. SEEDLINGS SHALL BE KEPT MOIST, FRESH, AND PROTECTED FROM WIND AND SUN TO PREVENT STRESS BEFORE PLANTING.
7. PLANTING METHOD. SEEDLINGS SHALL BE PLANTED AT APPROXIMATELY THE SAME DEPTH AS GROWING IN THE NURSERY, I.E., THE ROOT COLLAR SHOULD BE AT GROUND LEVEL. SEEDLINGS SHALL BE PLANTED ERECT. SEEDLING ROOTS SHALL BE SPREAD CAREFULLY IN A NATURAL POSITION IN THE PLANTING HOLE. SEEDLINGS SHALL BE SECURELY PLANTED WITH THE SOIL FIRMLY PACKED AROUND THE ROOTS.
8. WATERING. SEEDLINGS SHALL BE WATERED THE DAY THEY ARE PLANTED AND THEREAFTER AS NECESSARY TO INSURE THAT THE MINIMUM VIABILITY PERCENTAGES ARE MET.
9. SHRUBS PLANTED TO SUPPLEMENT TREE SEEDLINGS FOR TREE CANOPY CREDITS AS PROVIDED IN 12-0509.4D SHALL PLANTED AT THE SAME DENSITY AS SEEDLINGS (400 PLANTS PER ACRE AND SHALL BE PLANTED IN 5-18 INCH (12.7-45.7 CENTIMETERS) SPREAD OR LARGER SIZE OR IN SIZES THE SPECIES NORMALLY OBTAINS WHEN DISTRIBUTED AS 3 GALLON (11.4 LITER) CONTAINER STOCK. SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "TREE AND SHRUB PLANTING GUIDELINES" PREPARED BY VIRGINIA COOPERATIVE EXTENSION, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY.

END OF CONSTRUCTION

1. INSPECTION. THE DEVELOPER SHALL REQUEST AN INSPECTION WHEN CONSTRUCTION IS COMPLETED TO ENSURE THAT ALL WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
2. REPAIR. ALL TREES THAT HAVE BEEN DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY SHALL BE REPAIRED AS SPECIFIED IN § 12-0706.4.
3. TREE REMOVAL. IN THE EVENT THAT THE DIRECTOR DETERMINES THAT A TREE OR PORTION THEREOF IS DEAD, DECLINING, HAZARDOUS, OR A PROPERTY MAINTENANCE BURDEN DUE TO CONSTRUCTION OR ENVIRONMENTAL CHANGES RESULTING FROM CONSTRUCTION; OR, IS A HAZARDOUS TO LIFE OR PROPERTY BECAUSE OF CONDITIONS NOT RELATED TO CONSTRUCTION, THE DIRECTOR SHALL REQUIRE THE PERMITTEE TO REMOVE THE TREE OR PORTION THEREOF. THE PERMITTEE SHALL TAKE SUCH ACTION AS NECESSARY TO ELIMINATE THE TREE OR PORTION THEREOF CAREFULLY. THE PERMITTEE SHALL NOTIFY THE DIRECTOR OF ANY ACTIONS TAKEN OR PROPOSED TO BE TAKEN UNDER THIS SECTION.

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Adapted from: Prince George County, Maryland *Woodland Conservation Manual*

TAX MAP # 0754 02 0106
 SCALE: AS SHOWN
 DATE: 10/27/2015
 SHEET: 5 OF 7

TREE CONSERVATION NOTES & DETAILS
 LOT 106
 CLIFTON ROAD
 7184 CLIFTON ROAD
 MAGESTRAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL SEAL
 PREM K BHANDARI
 Lic. No. 042802
 10/27/2015

AMTA ENGINEERS, LLC
 3930 PENDER DRIVE, SUITE 310
 FAIRFAX, VA-22030
 TEL: 703-655-2151
 amaengineers@yahoo.com

THIS PLAN AND COMPUTATIONS HAVE BEEN PREPARED/REVIEWED BY ISA CERTIFIED ARBORIST.

Zhandari 10/27/2015 MA-5015A
 PREM K BHANDARI DATE CERTIFICATE NUMBER)

NO.	DATE	DESCRIPTION	BY	BY
		REVISION BLOCK		

PHASE I EROSION AND SEDIMENT CONTROL PROGRAM:

- USE EXISTING DRIVEWAY AS A CONSTRUCTION ENTRANCE
- INSTALL SILT FENCE AND SUPERSILT FENCE ALONG THE LIMIT OF DISTURBANCE AS SHOWN ON THE PLAN.
- CLEAR AND ROUGH GRADE THE REMAINDER OF THE SITE.
- PERFORM STABILIZATION SUCH AS TEMPORARY SEEDING AND MULCHING FOR ALL AFFECTED AREAS.

PHASE II EROSION AND SEDIMENT CONTROL PROGRAM

NOTE: THE FOLLOWING ITEMS ARE PART OF THE PHASE I & II EROSION AND SEDIMENT CONTROL PROGRAM, BUT ARE NOT TO BE CONSTRUCTED AS BEING SEQUENTIAL IN NATURE BUT ONLY A LISTING OF ITEMS TO BE PROVIDED.

- STABILIZE THOSE AREAS THAT WILL BE DENUED FOR MORE THAN 7 CALENDAR DAYS, EMPLOYING APPROPRIATE VEGETATIVE MEASURES, IN ACCORDANCE WITH THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK, CURRENT EDITION.
- INSTALL UTILITIES AND BRING THE PROPOSED PIPESTEM DRIVEWAY TO FINAL GRADE. STABILIZE WITH BASE STONE WITHIN FIVE (5) DAYS OF ESTABLISHING FINAL GRADE.
- UPON COMPLETION OF CONSTRUCTION OPERATIONS AND AFTER ALL DISTURBED AREAS HAVE BEEN ADEQUATELY STABILIZED, THE REMAINING MECHANICAL SEDIMENT CONTROLS (DIVERSION DIKES, SEDIMENT TRAPS, SILT FENCES, ETC.) WILL BE REMOVED AND THE AREAS OCCUPIED THEREBY WILL BE PERMANENTLY STABILIZED WITH VEGETATION. REMOVAL OF CONTROLS MUST BE APPROVED BY THE COUNTY INSPECTOR.

GENERAL LAND CONSERVATION NOTES

- NO DISTURBED AREA, WHICH IS NOT ACTIVELY BEING WORKED, SHALL REMAIN DENUED FOR MORE THAN 7 CALENDAR DAYS UNLESS OTHERWISE AUTHORIZED BY THE DIRECTOR.
- ALL E&S CONTROL MEASURES APPROVED WITH THE PHASE I E&S CONTROL PLAN SHALL BE PLACED AS THE FIRST STEP IN GRADING.
- ELECTRIC POWER, TELEPHONE AND GAS SUPPLY TRENCHES SHALL BE COMPACTED, SEEDED AND MULCHED WITHIN 7 DAYS AFTER BACKFILL.
- ALL SOIL STOCKPILES, IF ANY, SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER GRADING.
- DURING CONSTRUCTION, ALL STORM SEWER INLETS SHALL BE PROTECTED BY SEDIMENT TRAPS, MAINTAINED AND MODIFIED DURING CONSTRUCTION PROGRESS AS REQUIRED.
- ANY DISTURBED AREA NOT COVERED BY PPM ARTICLE 11-0406.1 AND NOT PAVED, SODDED OR BUILT UPON BY NOVEMBER 1, OR DISTURBED AFTER THE DATE, SHALL BE MULCHED IMMEDIATELY WITH HAY OR STRAW MULCH AT THE RATE OF 2 TONS/ACRE (4,483 KG/Ha) AND OVER-SEED BY APRIL 15.
- AT THE COMPLETION OF ANY PROJECT CONSTRUCTION AND PRIOR TO BOND RELEASE, ALL TEMPORARY SEDIMENT CONTROLS SHALL BE REMOVED AND ALL DENUED AREAS SHALL BE STABILIZED.

SODDING (WHERE DESIGNATED ON THE PLANS OR AT THE OPTION OF THE DEVELOPER)

- SODDING SHALL BE PERFORMED IN ACCORDANCE WITH VESCH SPECIFICATION 3.33.
- PRIOR TO SOIL PREPARATION, AREAS TO BE SODDED SHALL BE BROUGHT TO FINAL GRADE IN ACCORDANCE WITH THE APPROVED PLAN.
 - SOIL TESTS SHOULD BE MADE TO DETERMINE THE EXACT REQUIREMENTS FOR LIME AND FERTILIZER. SOIL TESTS MAY BE CONDUCTED BY THE STATE LABORATORY AT VPI & SU OR A REPUTABLE COMMERCIAL LABORATORY. INFORMATION ON STATE SOIL TESTS IS AVAILABLE FROM COUNTY OR CITY AGRICULTURE EXTENSION AGENTS.
 - PRIOR TO LAYING SOD, THE SOIL SURFACE SHALL BE CLEAR OF TRASH, DEBRIS, LARGE ROOTS, BRANCHES, STONES, AND CLODS IN EXCESS OF 1" IN LENGTH OR DIAMETER. SOD SHALL NOT BE APPLIED TO GRAVEL OR OTHER NON-SOIL SURFACES.
 - ANY IRREGULARITIES IN THE SOIL SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE FILLED OR LEVELED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
 - AREA TO BE TOP SOILED AND TOPSOIL USED SHALL FULFILL THE REQUIREMENTS OF TOP SOILING, VESCH SPEC. 3.30. NO SOD SHALL BE SPREAD ON SOIL THAT HAS BEEN TREATED WITH SOIL STERILANTS OR ANY OTHER TOXIC HERBICIDES UNTIL ENOUGH TIME HAS ELAPSED TO PERMIT DISSIPATION OF TOXIC MATERIALS.
 - SOD SHALL NOT BE LAID IN EXCESSIVELY WET OR DRY WEATHER AND SHOULD BE INSTALLED WITHIN 36 HOURS AFTER DELIVERY.
 - SOD SHOULD NOT BE LAID ON FROZEN SOIL SURFACES AND SHALL BE INSTALLED PER PLATE 3.33-1 OF VESCH.
 - QUALITY OF SOD SHALL BE STATE CERTIFIED TO ENSURE GENETIC PURITY AND HIGH QUALITY.

PERMANENT SEEDING

- PERMANENT SEEDING SHALL BE PERFORMED IN ACCORDANCE WITH VESCH SPECIFICATION 3.32.
- PERMANENT VEGETATION COVER MUST MEET THE REQUIREMENTS OF MINIMUM STANDARDS #3 (MS-3).
 - PLANT SELECTION SHALL BE BASED UPON TABLES 3.32 A&B DEPENDING ON CLIMATE, TOPOGRAPHY, SOILS, AND SITE CONDITIONS.
 - THE PLANTING SOIL MUST HAVE ENOUGH FINE GRAINED SOIL, SUFFICIENT PORE SPACE, SUFFICIENT DEPTH AND BE FREE FROM TOXIC OR EXCESSIVE QUANTITIES OF ROOTS AND SHALL BE APPLIED IN ACCORDANCE WITH VESCH STD 3.30.

STANDARDS AND SPECIFICATIONS FOR DUST CONTROL

- THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.
- THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.
- THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.
- THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.
- FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE.
 - ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER.
 - DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI (137.8 K Pa) MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:
 - APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
 - LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
 - APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR-625-02-00 EROSION AND SEDIMENT CONTROL AND COUNTY REGULATIONS.
- THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP OF CLEARING.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE OWNER SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY FAIRFAX COUNTY.
- THE OWNER IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY FAIRFAX COUNTY.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- IF REQUIRED, DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
- CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. ADDITIONAL SLOPE STABILIZATION MEASURES SHOULD BE PROVIDED TO PREVENT EXCESSIVE EROSION ON SLOPES.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- ADEQUATE DRAINAGE PROTECTION SHALL BE MADE WHENEVER WATER SEEPS FROM A SLOPE FACE.
- ALL STORM SEWER INLETS (IF ANY) THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED.
- ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS TO WORKING WITHIN OR CROSSING A WATERCOURSE SHALL BE MET.
- ALL UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH VESCH CHAPTER 8, PAGE 22.
 - NO MORE THAN 500 FEET OF TRENCH MAY BE OPEN AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 - EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - RESTALLMENT SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
 - APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE AREA, WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PUBLIC OR PAVED ROADS.
- ALL TEMPORARY EROSION/SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION WITH THE PERMISSION OF THE INSPECTOR.

SILT FENCE

- SILT FENCE SHALL COMPLY WITH VESCH CHAPTER 3 PAGES 21-22.
- SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER, OR ETHYLENE YARN AND SHALL BE CERTIFIED BY MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS NOTED IN TABLE 3.05-B OF THE VESCH.
 - SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT TO 120 DEGREES FAHRENHEIT.
 - IF WOODEN STAKES ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A DIAMETER OF 2" WHEN OAK IS USED AND 4" WHEN PINE IS USED. WOODEN STAKES MUST HAVE A MINIMUM LENGTH OF 5'.
 - IF STEEL POSTS (STANDARD "U" AND "T" SECTION) ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT AND SHALL HAVE A MINIMUM LENGTH OF 5'.
 - WIRE FENCE REINFORCEMENT FOR SILT FENCE USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
 - THE HEIGHT OF A SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED 34" ABOVE GROUND ELEVATION.

NOTE: SILT FENCE SHOULD BE USED FOR DRAINAGE AREAS THAT ARE NO LARGER THAN 0.25 ACRES PER 100' OF SILT FENCE LENGTH. THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100'. THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1. SILT FENCE IS BEST USED WHEN THE SLOPE ABOVE THE FENCE, EITHER CUT OR FILL, IS NOT STEEPER THAN 3:1.

MAINTENANCE PROGRAM

- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED DAILY AND AFTER EACH SIGNIFICANT RAINFALL BY THE SITE SUPERINTENDENT OR STRUCTURAL DAMAGE, EROSION OR ANY OTHER UNDESIRABLE CONDITIONS, ANY DAMAGED STRUCTURES ARE TO BE REPAIRED IMMEDIATELY (PRIOR TO THE END OF THE WORKING DAY) INCLUDING RESEEDING AND MULCHING OR RESODDING IF NECESSARY.
- TEMPORARILY AND PERMANENTLY SEEDED AREAS DAMAGED BY RAINFALL ARE TO BE RESEEDED AND MULCHED WITHIN TWO (2) DAYS AND WHENEVER GROUND COVER HAS NOT BEEN ADEQUATELY ESTABLISHED TO PREVENT EROSION.
- ADDITIONAL SLOPE STABILIZATION MEASURES MUST BE PROVIDED FOR SLOPES WHICH ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR UNTIL THE PROBLEM IS CORRECTED.
- SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN THE DEPTH IS EQUAL TO ONE-HALF (1/2) THE HEIGHT OF THE FENCE. SILT FENCES AND SUPER SILT FENCES WILL BE CHECKED REGULARLY AND DAMAGED FENCES WILL BE REPAIRED OR REPLACED IMMEDIATELY.
- THE MATERIAL REMOVED FROM THE EROSION AND SEDIMENT CONTROL STRUCTURES MAY BE DISPOSED OF BY SPREADING THE MATERIAL ON-SITE OR BY HAULING IT AWAY, IF NOT SUITABLE FOR PLACEMENT AS TOPSOIL.
- NO AREA SHALL BE LEFT DENUED FOR A PERIOD LONGER THAN SEVEN (7) DAYS EXCEPT FOR THAT PORTION OF THE SITE IN WHICH WORK WILL BE CONTINUOUS BEYOND SEVEN (7) DAYS. IN THE EVENT SUCH MAXIMUM PERIOD IS EXCEEDED AND ANY SUCH AREAS REMAIN EXPOSED WITHOUT COVER, THE COUNTY WILL (IN THE EVENT THE DEVELOPER OR OWNER DOES NOT INSTALL THE NECESSARY TEMPORARY OR PERMANENT VEGETATIVE STABILIZATION MEASURES TO ACHIEVE ADEQUATE EROSION AND SEDIMENT CONTROL.
- NO SEDIMENT CONTROL STRUCTURES SHALL BE REMOVED WITHOUT APPROVAL OF THE FAIRFAX COUNTY SITE INSPECTOR.

FAIRFAX COUNTY PRIORITY RATING FORM FOR E & S CONTROL

PROJECT NAME: 7184 CLIFTON ROAD PROJECT NUMBER: 2015-
 TAX MAP: # 75-4-02-0106 EVALUATOR: DATE: 10/27/2015

A. Percentage of Denuded Area to Total Site Area		Rating
a. > 60%	{ X }	5
b. 31 to 60%	{ }	3
c. 10 to 30%	{ }	1

If the denuded area is greater than 10 acres, the project is initially rated a high priority.

B. Watercourse Crossing		Rating
a. Yes	{ X }	0
b. No	{ }	0

* If yes the project is initially rated a high priority.

C. Distance of Denuded Area to Downstream Adjacent Property		Rating
a. < 50 -feet	{ }	5
b. 50 to 150-feet	{ }	3
c. > 150-feet	{ X }	0

D. Distance of Any Portion of the Denuded Area to Natural Watercourse		Rating
a. < 50 -feet	{ }	5
b. 50 to 150-feet	{ }	3
c. > 150-feet	{ X }	0

E. Minimum Vegetative Buffer (Trees, Shrubs, Grasses and other Plants)		Rating
a. < 50 -feet	{ X }	0
b. 50 to 150-feet	{ }	3
c. > 150-feet	{ }	3

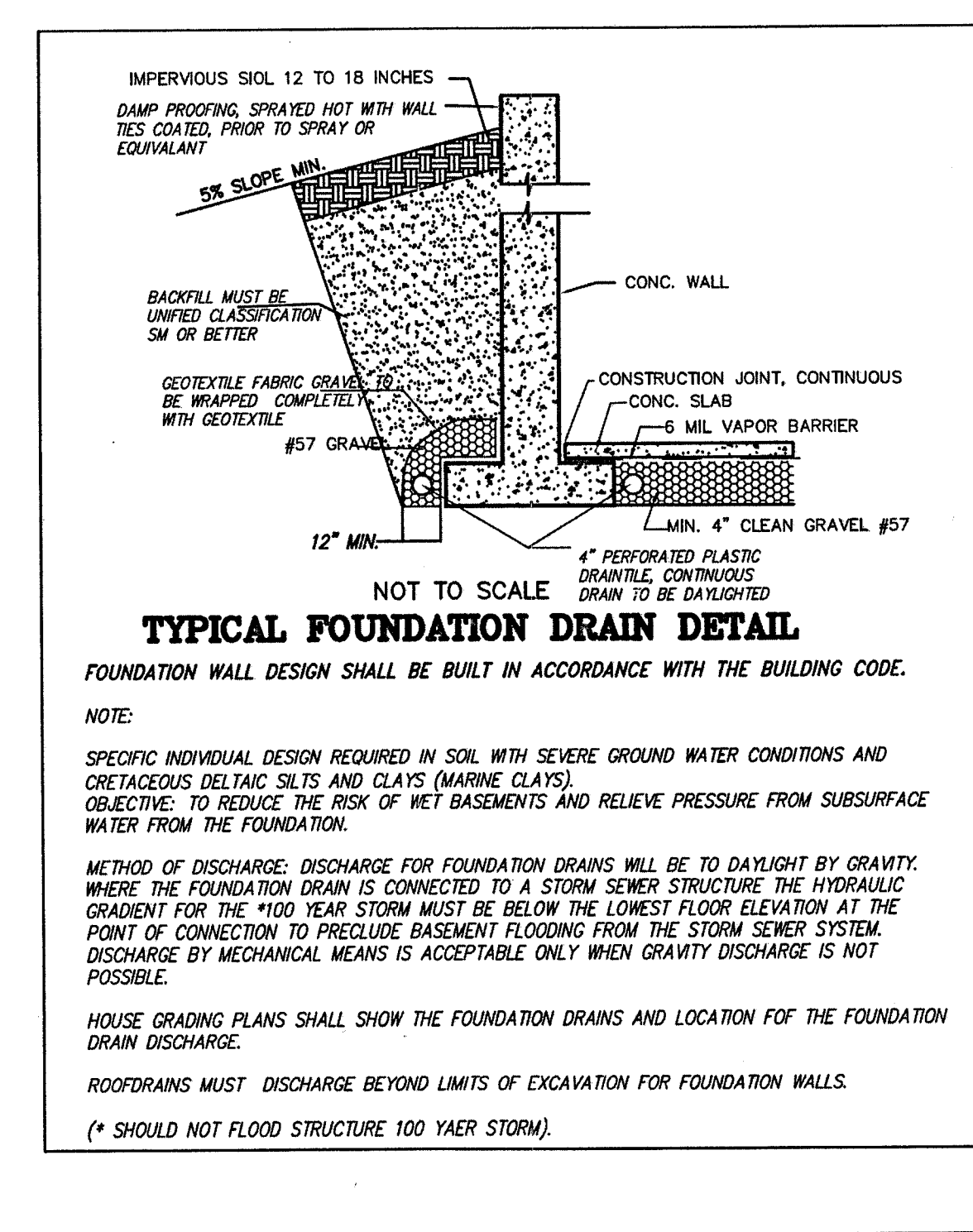
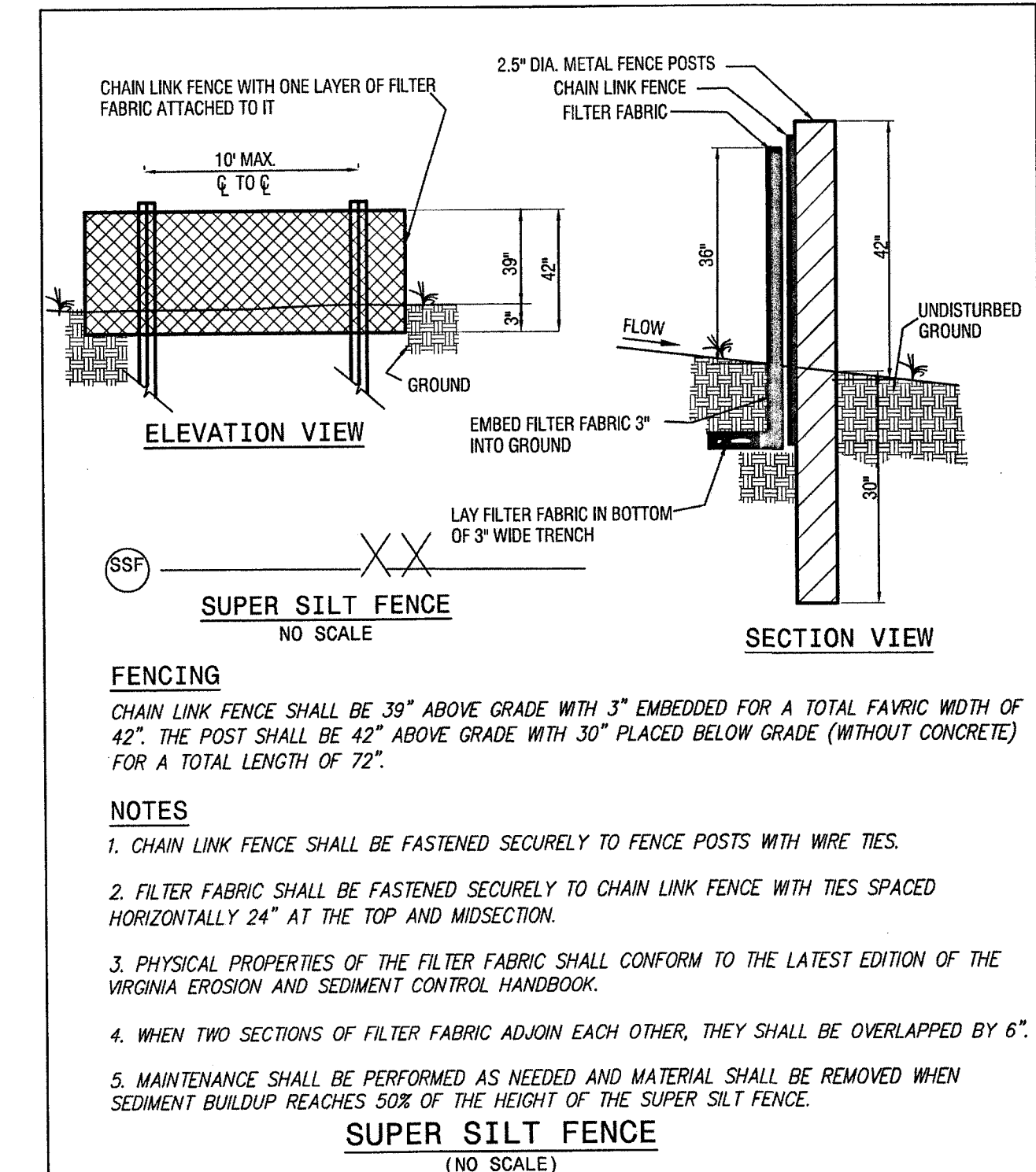
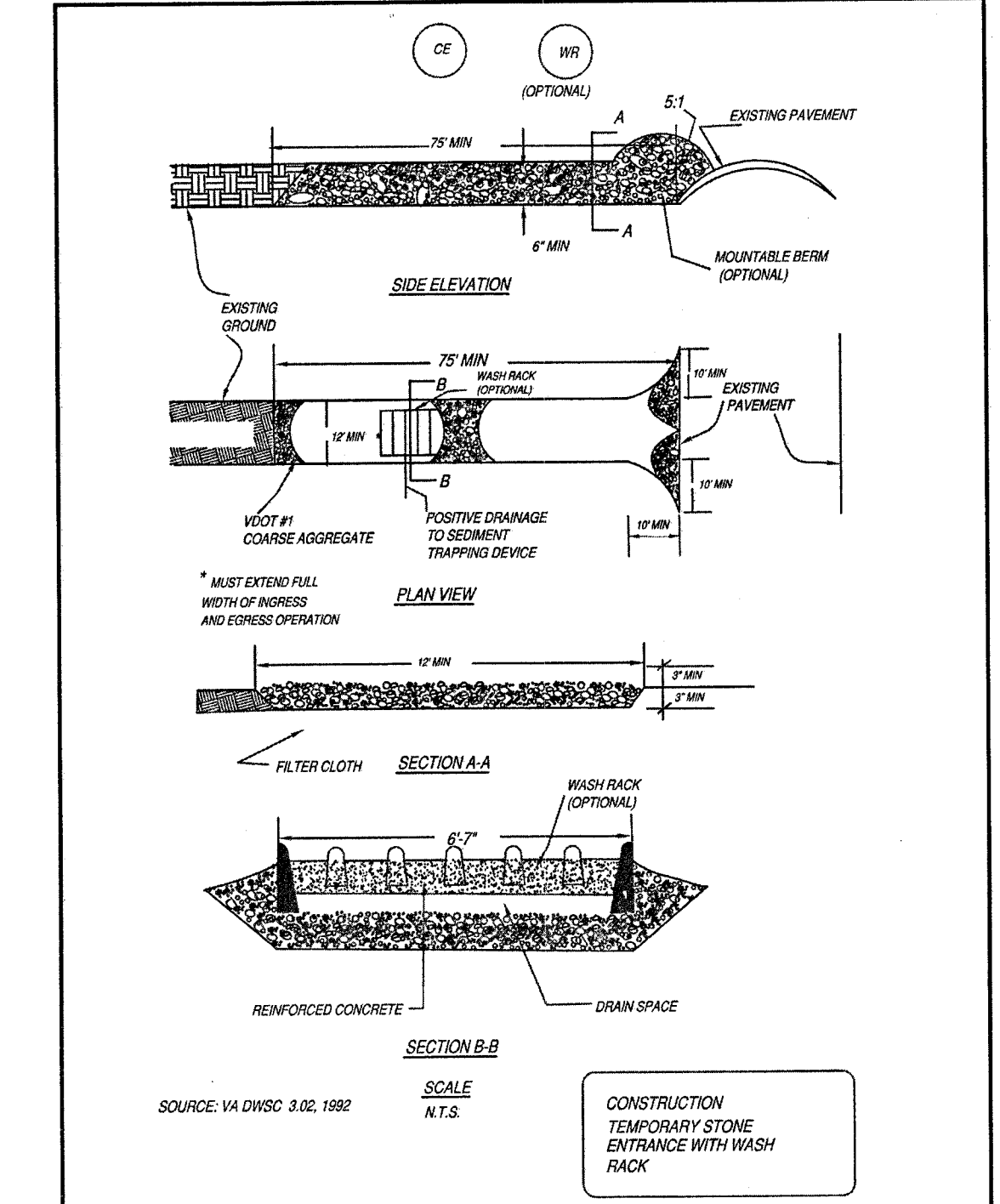
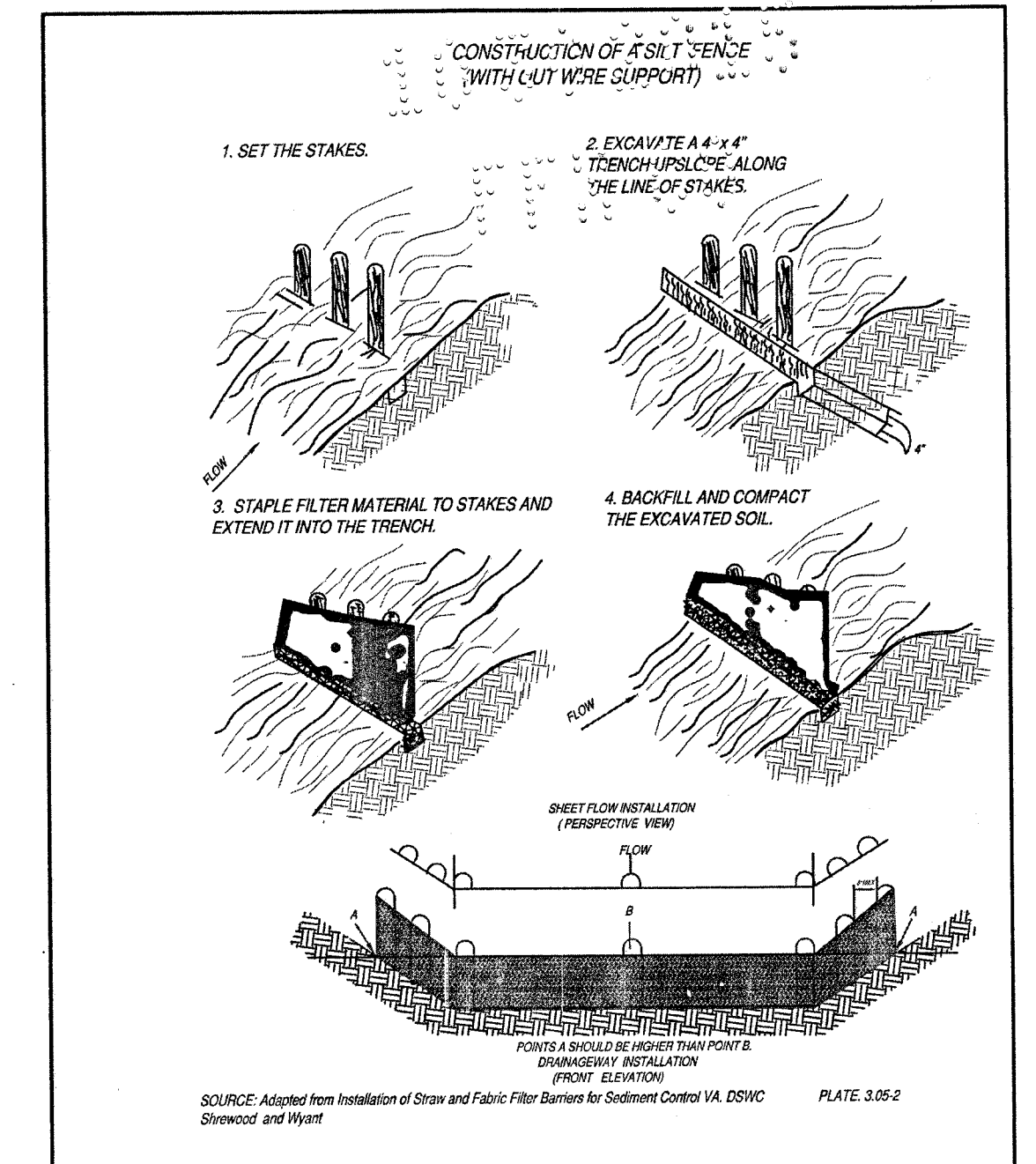
* Vegetation in Resource Protection Area are not to be included as vegetative buffers for this application.

OVERALL RATING PRIORITY (Mark with an "X")

If >22 High
 If >14 and <or = to 22 Medium
 If < or = to 14 Low X

PROJECT PRIORITY LEVEL: LOW

** Reserve for Fairfax County use**
 APPROVED BY: _____
 DATE: _____
 Plan Reviewer



TAX MAP # 0754 02 0106
 SCALE: AS NOTED
 DATE: 10/27/2015
 SHEET: 6 OF 7

E&S CONTROL NOTES AND DETAILS
 LOT 106
 CLIFTON ROAD
 7184 CLIFTON ROAD
 MAGESTRIAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA

COMMONWEALTH OF VIRGINIA
 PROFESSIONAL SEAL
 PHILIP K. BHANDARI
 Lic. No. 042882
 10/27/2015
 ENGINEERS, LLC

3930 PENDER DRIVE, SUITE 310
 FAIRFAX, VA-22030
 TEL: 703-655-2151
 amaengineers@yahoo.com

NO.	DATE	DESCRIPTION	BY	BY



DRAINAGE MAP
SCALE: 1"=100'

OUTFALL NARRATIVE

THE STUDY SITE PLAN CONSISTS OF CONSTRUCTION OF SINGLE FAMILY DWELLING ON LOT 106. THE LOT IS CURRENTLY VACANT AND IS MOSTLY WOODED. THE LOT CONTAINS ABOUT AREA OF 1.33 ACRES OF TOTAL LAND AREA. THE PROJECT SITE LIES IN THE POPES HEAD CREEK WATERSHED. THE SITE HAS MAINLY ONE DRAINAGE AREA, A1. THE ENTIRE DISTURBED AREA SHEET FLOWS NORTH TOWARDS THE FRONT OF THE LOT AND OUTFALLS TO THE DITCH AS SHOWN ON THE DRAINAGE MAP. SHEET FLOW FROM THE PROPOSED DEVELOPMENT LEAVES THE SITE IN NON-EROSIVE CONDITION.

THE DRAINAGE AREA, A1 CONSISTS OF 2.6 ACRES OF TOTAL LAND AREA AND CONTRIBUTES ABOUT 7.56 CFS OF RUNOFF FROM THE 10-YEAR STORM. THE RUNOFF FROM THE SITE SHEET FLOWS AND OUTFALLS TO THE DITCH LOCATED ON THE FRONT YARD OF THE LOT. THE RUNOFF IS CARRIED BY THE DITCH FURTHER DOWNSTREAM ACCUMULATING MORE RUNOFF FROM OFFSITE AREAS AND ULTIMATELY OUTFALLS TO THE FLOOD PLAIN LIMIT OF POPES HEAD CREEK (NOT SHOWN ON THE DRAINAGE MAP). MORE RUNOFF IS CONTRIBUTED FROM UPSTREAM DRAINAGE AREA. CONTRIBUTING DRAINAGE AREA "A2" CONSISTS OF 6.0 ACRES OF TOTAL AREA AND CONTRIBUTES ABOUT 17.45 CFS OF RUNOFF FROM THE 10-YEAR STORM EVENT.

A STUDY SECTION 1-1 IS TAKEN AT THE DITCH AS SHOWN ON THE DRAINAGE MAP AND ANALYZED FOR ADEQUACY. THE DETAILED HYDRAULIC ANALYSIS HAS BEEN PERFORMED AND SHOWN ON THIS SHEET. THE STUDY SHOWS THAT THE RUNOFF IS CONTAINED WITHIN THE BED AND BANKS OF THE DITCH AND FLOWS WITH A NON-EROSIVE VELOCITY. THEREFORE, IT IS THE OPINION OF THE SUBMITTING ENGINEER THAT REQUIREMENTS FOR THE ADEQUACY OF THE DOWNSTREAM DRAINAGE SYSTEM HAVE BEEN MET; AND IT IS OUR PROFESSIONAL OPINION THAT NO ADJACENT OR DOWNSTREAM PROPERTIES WILL SUFFER ADVERSE IMPACTS DUE TO THIS PROPOSED DEVELOPMENT ACTIVITY.

AFTER THE COMPLETION OF THE PROJECT, AN INCREASE IN SURFACE RUNOFF OF 0.58 CFS AND 0.43 CFS FROM THE 10-YEAR AND 2-YEAR STORMS, WILL OCCUR ON THE POST-DEVELOPMENT STAGE. THE RUNOFF WILL BE DISPERSED AS A SHEET FLOW ACROSS THE LOT. THE EXISTING DRAINAGE SYSTEM WILL BE ADEQUATE TO HANDLE THIS INCREMENT OF RUNOFF, AND AN ADEQUATE OUTFALL WILL EXIST ON THE POST-DEVELOPMENT CONDITIONS. IT IS THE SUBMITTING ENGINEER'S OPINION THAT AN ADEQUATE OUTFALL EXISTS FOR THE SITE AND NO FLOODING OR ADVERSE EFFECT WILL BE ANTICIPATED AT THE DOWNSTREAM OF THE OUTFALLS OF THE SITE.

DURING THE CONSTRUCTION PHASE, SILT FENCE AND SUPERSILT FENCE WILL BE INSTALLED AS A SEDIMENT AND EROSION CONTROL MEASURES ALONG THE LOW AREA OF THE DISTURBANCE. THE TOTAL DISTURBED AREA WILL BE 0.57 AC. THE RUNOFF FROM THE DISTURBED AREA WILL BE (0.6x0.57 ACx7.27) = 2.49 CFS FROM THE 10-YEAR STORM. ALL THE DISTURBED AREA WILL SHEET FLOW AND FILTER THROUGH THE SUPER SILT FENCE. NO GRUBBING OR TEMPORARY GRADING WILL BE CONDUCTED TO CREATE CONCENTRATED FLOW DURING THE CONSTRUCTION ACTIVITIES. THEREFORE, IT IS OUR UNDERSTANDING THAT AN ADEQUATE OUTFALL EXISTS DURING THE CONSTRUCTION PERIOD OF THE PROJECT AND NO ADVERSE IMPACT WILL OCCUR TO THE NEIGHBOR LOTS

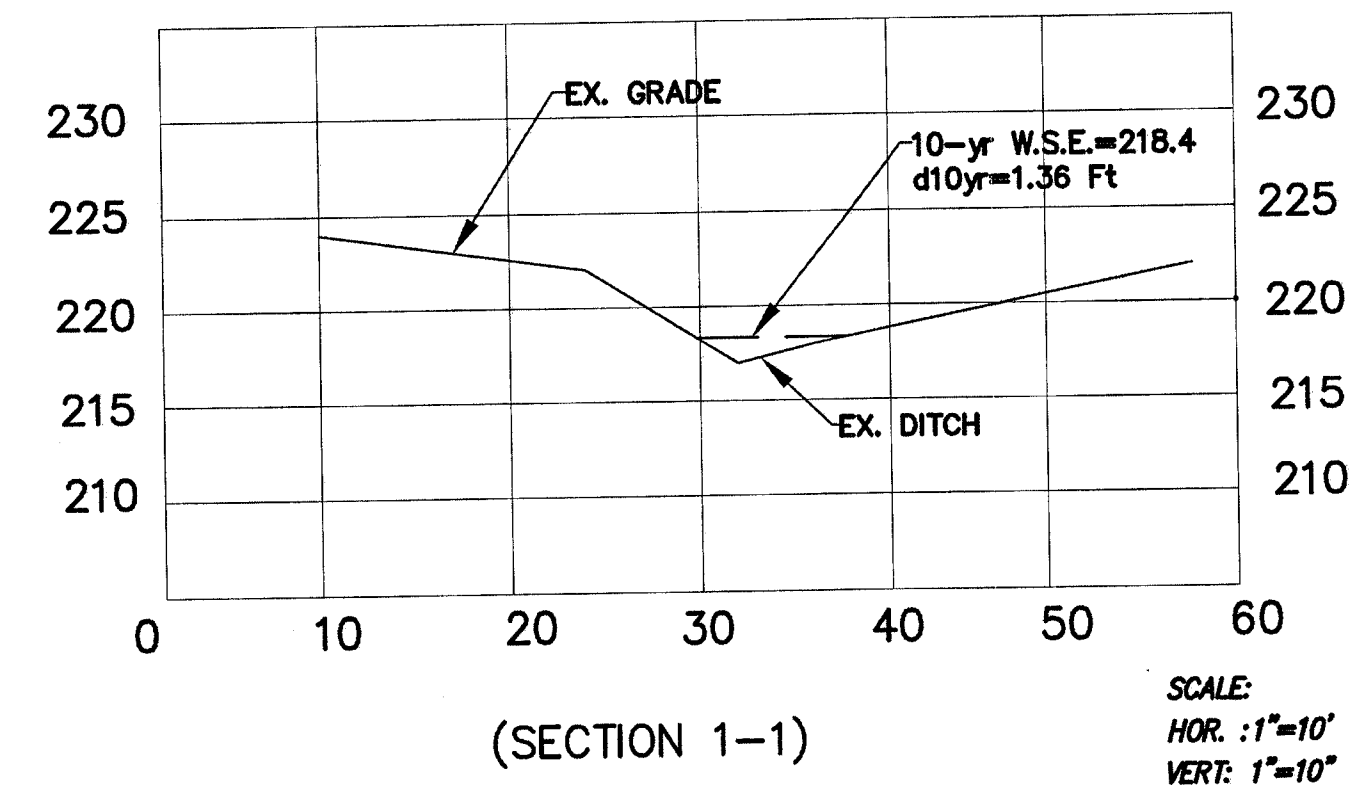
$Q=CIA$ (@ SECTION 1-1)

RUNOFF COMPUTATIONS (Q=CIA)

DRAINAGE AREA, (A1)=8.6 AC.
Time of concentration=5 min (ASSUMED Tc)
Intensity of rainfall, 110yr=7.27 in/hr
Intensity of rainfall, 12yr=5.45 in/hr

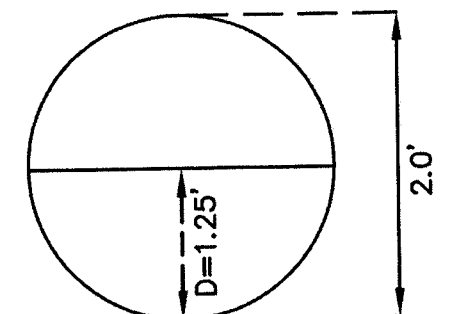
Coefficient of Runoff, C=0.40
Peak Runoff, Q10yr=CxIxA
= 0.40x7.27x8.6
= 25.0 cfs
Q2yr=0.40x5.45x8.6
=18.75 CFS

Channel shape: Natural ditch
Average ditch slope, s=4.0%
n=0.050
Computed Output (Flow master)
Flow depth (10-yr), d=1.36 ft < 2.5 ft [OK]
Velocity, V2yr=4.1 FPS < 5.0 FPS Natural Ditch [OK]



DRIVEWAY CULVERT COMPUTATIONS

CULVERT SIZE = 24 INCHES
CULVERT LENGTH = 50 FT
INV. IN = 236.7
INV. OUT = 235.9
SLOPE = 1.6%
CULVERT CAPACITY = 28.67 CFS
VELOCITY = 9.1 FPS
AREA DRAINING TO DRIVEWAY CULVERT = 6.2 ACRES
(SEE DRAINAGE MAP ON THIS SHEET)
I10 = 7.27 IN/HR
C = 0.40
Q10 = 0.40 X 7.27 X 6.2
=18.02 CFS
WATER DEPTH = 1.25 FT

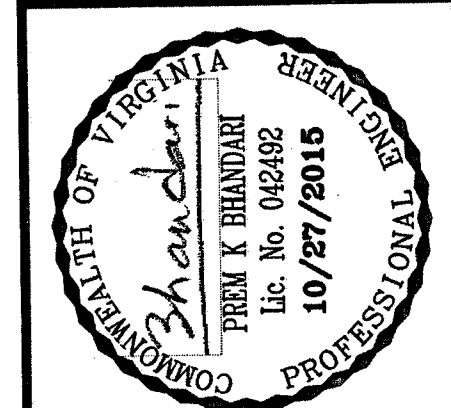


DRIVEWAY CULVERT (24" RCP)
SCALE: N.T.S.

RIP-RAP IS PROVIDED ALONG THE DITCH. NO ADDITIONAL OUTFALL PROTECTION REQUIRED.

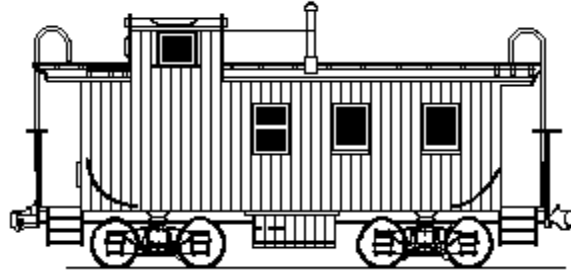
TAX MAP # 0754 02 0106	SCALE: AS NOTED	DATE: 10/27/2015	SHEET: 7 OF 7
JOB NO.:	DESIGN BY:	DRAWN BY:	CHECKED BY:

OUTFALLS ANALYSIS
LOT 106
CLIFTON ROAD
7184 CLIFTON ROAD
MAGISTRAL DISTRICT: SPRINGFIELD TOWN OF CLIFTON, VIRGINIA



AMIA
ENGINEERS, LLC
3930 PENDER DRIVE, SUITE 310
FAIRFAX, VA-22030
TEL: 703-655-2151
ameengineers@yahoo.com

NO.	DATE	DESCRIPTION	BY	BY



**CLIFTON TOWN PLANNING COMMISSION
REGULAR MEETING, HELD ELECTRONICALLY VIA ZOOM
TUESDAY, APRIL 26, 2022, 7:30 PM**

In accordance with the Town of Clifton's Declaration of a Local Emergency due to the COVID-19 pandemic under Virginia Code § 44-146.21 which enables the Town of Clifton Government bodies to conduct Town business through electronic public meetings under Virginia Code § 2.2-3708.2, the Town of Clifton Planning Commission is holding the Meeting noticed herein electronically for the purpose of continuity of government of the Town of Clifton.

The meeting will be conducted using Zoom teleconferencing audio and video service, and connection information will be provided to members of the public to afford the opportunity to citizens to witness the operation of the Town of Clifton government. Connection information is available from, and will be provided by, the Town Clerk.

Order of Business:

1. Commercial Applications:

- a. 12644 Chapel Road: Add Kiwi Resorts LLC to existing Use Permit
- b. 12642 Chapel Road: Signature Aesthetics LLC
- c. 12642 Chapel Road: Kauffman Group Inc
- d. 12642 Chapel Road: Summit Real Estate LLC

2. Residential Application:

- a. 7184 Clifton Road: Amendment to Preliminary Use Permit for Construction

3. Unfinished Business:

- a. ADA Research Project.
- b. Proposed Zoning Changes.

4. Approve March 29, 2022 Minutes.

5. Adjournment.