



HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert K. Sutton
Chairman

Date: September 27, 2022

MEMORANDUM

TO: Rabbiah Sabbakahn
Department of Permitting Services

FROM: Dan Bruechert
Historic Preservation Section
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #1004381 - Pool, Fencing, Decking, and Hardscape

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** at the September 21, 2022 HPC meeting with revisions approved by Staff on September 27, 2023..

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Justin & Kimberly Shur
Address: 8 Primrose St., Chevy Chase

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Dan Bruechert at 301.563.3400 or dan.bruechert@montgomeryplanning.org to schedule a follow-up site visit.



GENERAL NOTES

- 1. Boundary information and two-foot contour data on the subject property and fronting right-of-way are based upon surveys performed by CAS Engineering, dated January, 2022. Improvements and two-foot contour data outside the subject property are based upon available MNCPPC topographic information and are shown for reference only.

ZONING DATA

- 1. Zoning: R-60
Minimum Lot Area = 6,000 sq ft
Minimum Lot Width at B.W. = 25 ft
Minimum Lot Width at B.R.L. = 60 ft

Verify lot coverage in accordance with the Zoning Ordinance.

- a. Coverage is the area of a lot or site occupied by a building, including an accessory building, structured parking, or other related structure such as a porch, patio, deck, or steps. Coverage does not include a driveway, a pedestrian walkway, a bay window measuring 10 feet in width or less and 5 feet in depth or less, an uncovered porch or patio, deck, a swimming pool, or roof overhang.

SEQUENCE OF CONSTRUCTION

- 1. Prior to clearing of trees, installing sediment control measures, or grading, a pre-construction meeting must be conducted on-site with the Montgomery County Department of Permitting Services (MCDPS) Sediment Control Inspector (240) 777-0311 (48 hours notice), the owners representative, and the site engineer.

APPROVED
Montgomery County
Historic Preservation Commission
[Signature]

REVIEWED
By Dan.Bruechert at 10:50 am, Mar 30, 2023

RELATED REQUIRED PERMITS

TO BE COMPLETED BY THE CONSULTANT AND PLACED ON THE FIRST SHEET OF THE SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN SET FOR ALL PROJECTS.

IT IS THE RESPONSIBILITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT.

Table with columns: TYPE OF PERMIT, REQ'D, NO. REQ'D, PERM. NUMBER, EXPIRATION DATE, WORK RESTRICTION DATES. Rows include MCDPS Floodplain District, WATERWAYS/WETLAND(S), a. Corps of Engineers, b. MDE, c. MDE Water Quality Certification, MDE Dam Safety, DPS Roadside Trees Protection Plan, N.P.D.E.S. - Notice of Intent, FEMA LOMR, OTHERS (Please List).

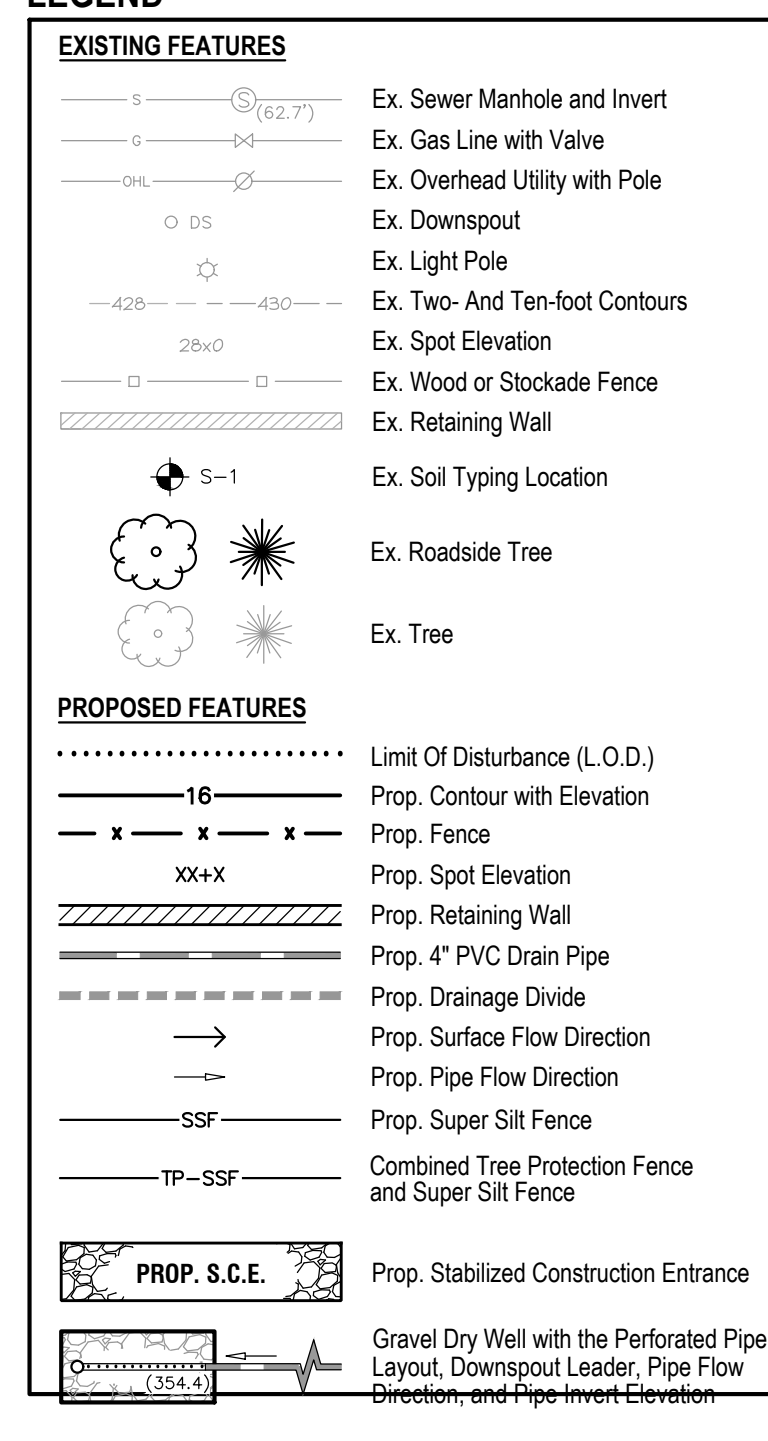
CONSTRUCTION INSPECTION CHECK-OFF LIST FOR DRY WELLS/RECHARGE CHAMBER

Table with columns: MANDATORY NOTIFICATION, MCDPS INSPECTOR, OWNER/DEVELOPER. Rows include 1. Excavation for Dry Well conforms to approved plans, 2. Placement of backfill, perforated inlet pipe and observation well conforms to approved plans, 3. Placement of geotextiles and filter media conforms to approved plans, 4. Connecting pipes, including connection to downspout, constructed per the approved plans, 5. Final grading and permanent stabilization conforms to approved plans.

RECORD DRAWING CERTIFICATION

A record set of approved Sediment Control/Stormwater Management plans must be maintained onsite at all times. In addition to stormwater management items, these plans must include the number and location of trees proposed to be planted to comply with the Tree Canopy Law. Any approved modifications or deletions of stormwater practices or tree canopy plantings or information must be shown on the record set of plans and on the Tree Canopy Requirements table. Upon completion of the project, the record set of plans, including thereon this signed Record Drawing Certification, must be submitted to the MCDPS Inspector. In addition to this Record Drawing Certification, a formal Stormwater Management As-Built submission is required. It is required to be submitted to the MCDPS Inspector.

LEGEND



TREE CANOPY REQUIREMENTS

Table with columns: TO BE COMPLETED BY THE CONSULTANT AND PLACED ON THE FIRST SHEET OF THE SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN SET FOR ALL PROJECTS. EXEMPT: YES NO. If exempt under Section 55-5 of the code, please check the applicable exemption category below. Required Number of Shade Trees: Fee in Lieu: (\$250 per Tree Proposed) = \$250, \$ 0,000.00.

TOPSOIL NOTE

TOPSOIL MUST BE APPLIED TO ALL PERVIOUS AREAS WITHIN THE LIMITS OF DISTURBANCE PRIOR TO PERMANENT STABILIZATION IN ACCORDANCE WITH MDE "STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS".

DRAINAGE STATEMENT

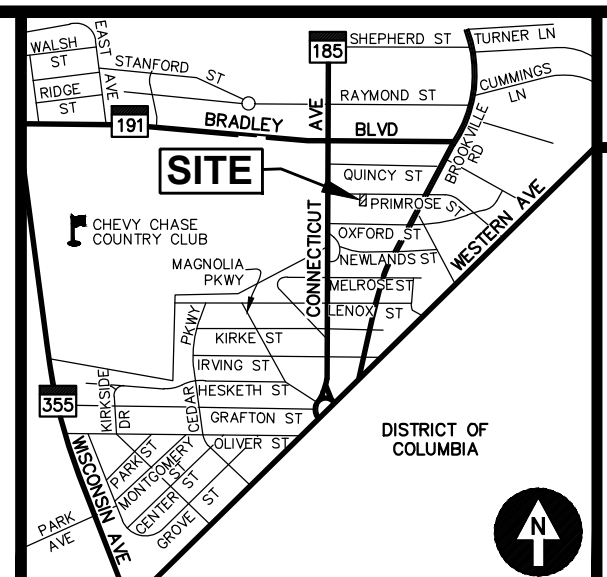
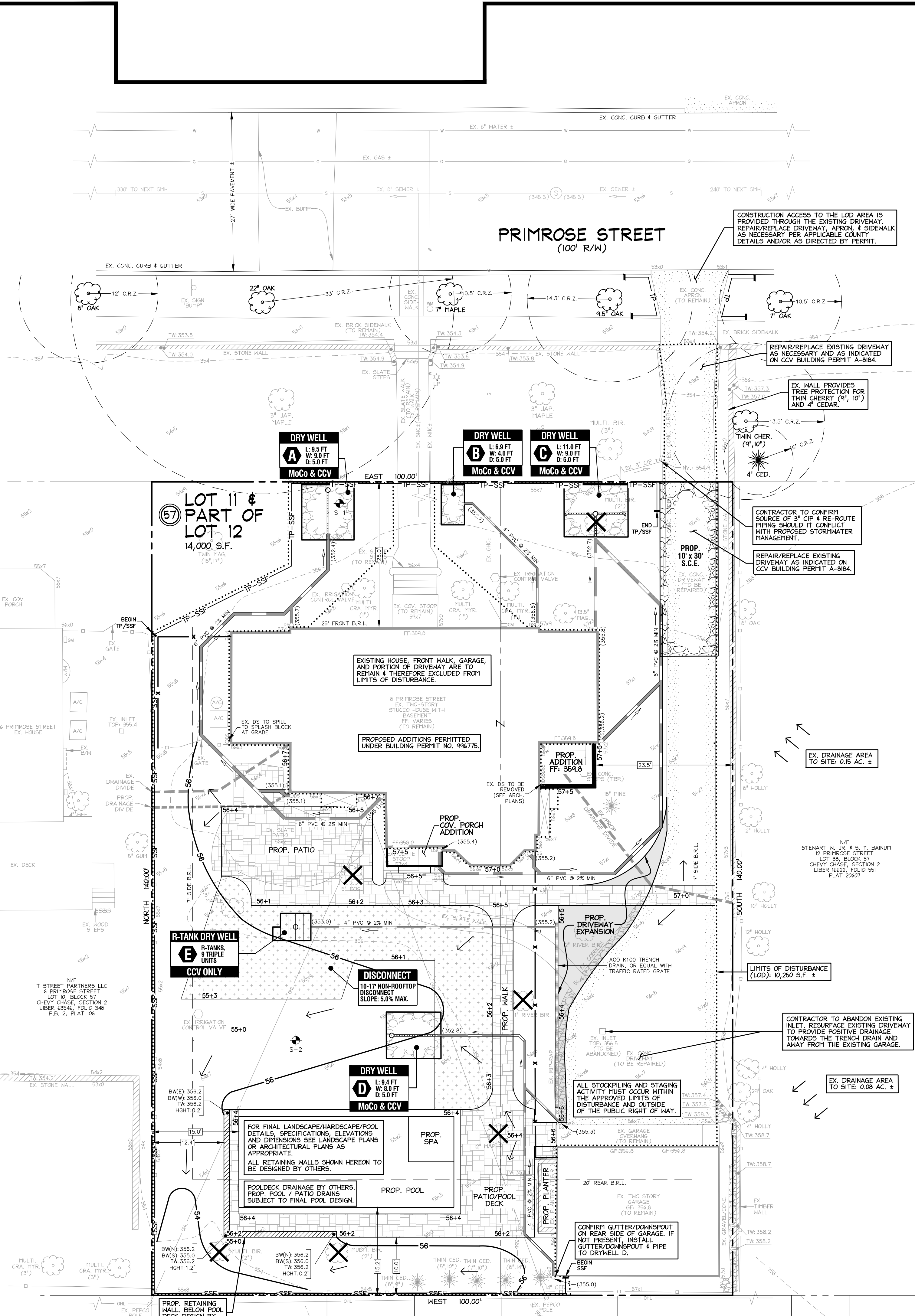
I understand that DPS approval of this sediment control/stormwater management plan is for demonstrated compliance with required environmental runoff treatment standards. This DPS sediment control/stormwater management plan approval does not relieve me of professional responsibility. I have analyzed the proposed design for Sediment Control Permit No. 288826 and hereby state that, based upon my background, training and experience, I have determined that the proposed improvements shown on this plan meet relevant laws and regulations. I further acknowledge that I have analyzed the post development drainage patterns for this project from the standpoint of my responsibilities under current Maryland Law and have determined that a permit is required from adjacent property owners. If these facilities located by the client comply with the above requirements, I have obtained and copies of those permits have been made available to DPS.

UTILITY INFORMATION

EXISTING UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND MUST BE FIELD VERIFIED. UTILITY LOCATIONS ARE BASED UPON AVAILABLE RECORDS AND ARE SHOWN TO THE BEST OF OUR ABILITY. FOR LOCATION OF UTILITIES, CALL "MISS UTILITY" AT 1-800-227-7772. OR LOG ON TO WWW.RESULTS.GOV 48 HOURS IN ADVANCE OF ANY WORK IN THE VICINITY. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITHIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE UNDERGROUND UTILITY LOCATIONS LOCATED BY THE CLIENT COMPARE BEFORE COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 55A OF THE MONTGOMERY COUNTY CODE.

ROADSIDE TREE REQUIREMENTS

Table with columns: TO BE COMPLETED BY THE CONSULTANT AND PLACED ON THE FIRST SHEET OF THE SEDIMENT CONTROL/STORMWATER MANAGEMENT PLAN SET FOR ALL PROJECTS. # of Street Trees Removed, # of Street Trees Planted, Street Tree Removal Fee, Additional Required Fee, Total Fees Required. Includes notes on Major (Shade) Trees, Minor (Shade) Trees, Street Tree Removal Fee, and Additional Required Fee.



CAS JOB NO.: 21-1046
DATE: 03/2023
DATE REVISION: 01/13/23 LAK - SGP Updated for Initial Plan Review by MCDPS-WRS. 03/24/23 LAK - SGP Updated for Second Plan Review by MCDPS-WRS.



PROFESSIONAL ENGINEER CERTIFICATION: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 19588, expiration date 3/30/2024, and that this plan meets MCDPS criteria for building and sediment control permit applications.

Lot 11 & Part of Lot 12, Block 57, Chevy Chase, Section 2
Part Book A, Plat No. 26, Recorded 9/8/1909
Bethesda (7th) Election District, Montgomery County, MD

8 Primrose Street
Chevy Chase, Maryland 20815

OWNER/APPLICANT: Kim Shur, 8 Primrose Street, Chevy Chase, MD 20815
ARCHITECT: Thomson & Cooke Architects PLLC, 5155 MacArthur Blvd., NW, Washington, DC 20016

8 Primrose Street
Lot 11 & Part of Lot 12, Block 57, Chevy Chase, Section 2 -- Chevy Chase Village -- Building Permit Site Plan, Stormwater Management Plan, and Sediment Control Plan
Sediment Control Permit #: 288826

Table with columns: TECHNICAL REVIEW OF SEDIMENT CONTROL, ADMINISTRATIVE REVIEW, TECHNICAL REVIEW OF STORMWATER MANAGEMENT, SMALL LOT DRAINAGE APPROVAL, STORMWATER MANAGEMENT FILE NO. Includes dates and signatures for reviews.

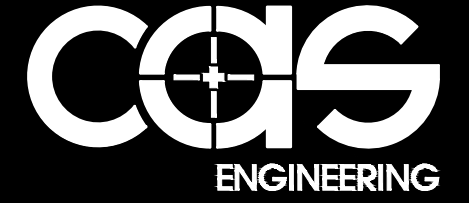


Curt A. Schreffler, PE
3/24/2023

PROFESSIONAL ENGINEER CERTIFICATION:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 19598, expiration date 3/31/2024, and that this plan meets MCDPS criteria for building and sediment control permit applications.

Lot 11 & Part of Lot 12, Block 57, Chevy Chase, Section 2
Part Book A, Plat No. 26, Recorded 9/8/1909
Bethesda (7th) Election District, Montgomery County, MD

8 Primrose Street
Chevy Chase, Maryland 20815



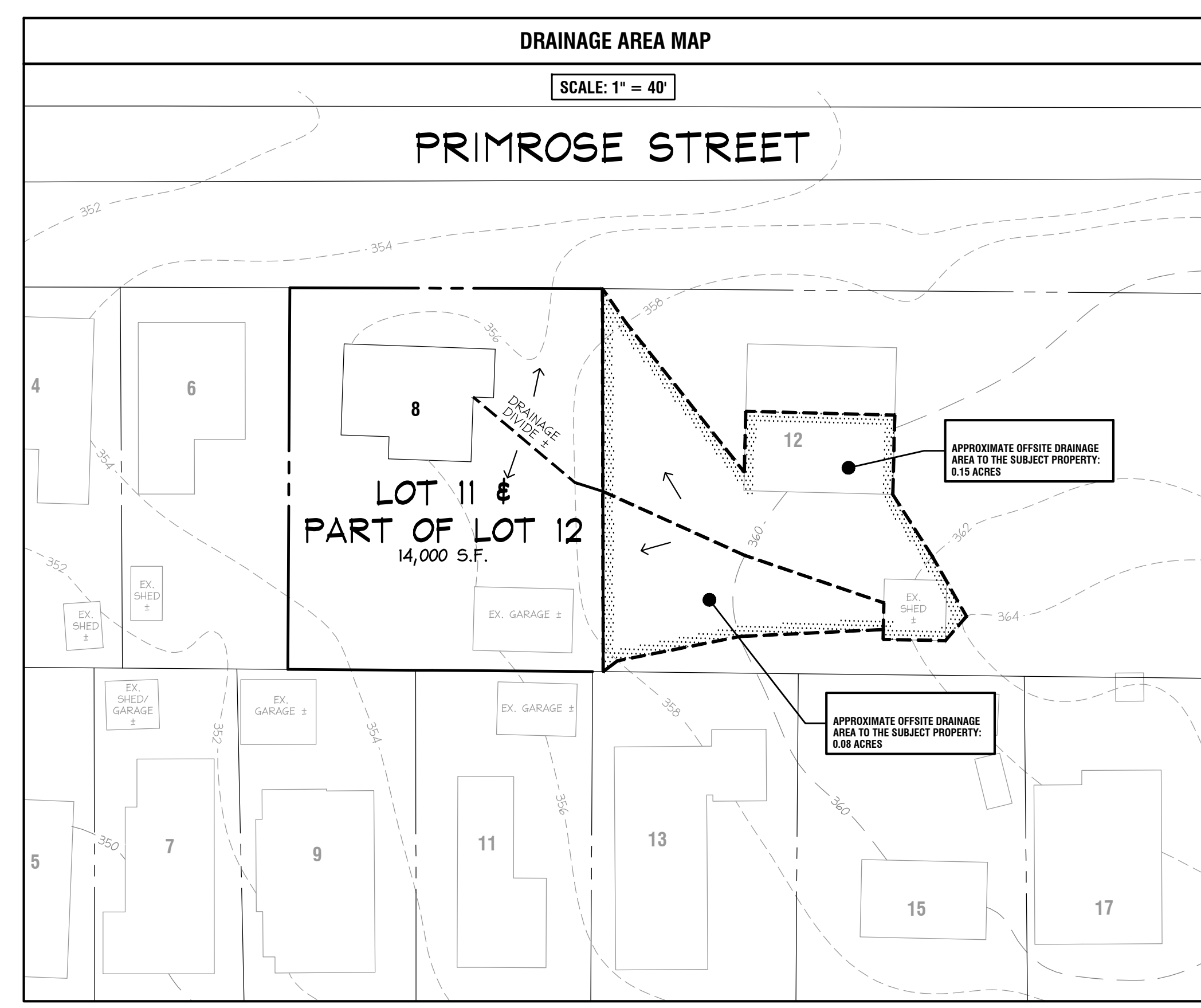
CAS ENGINEERING-MD
10 South Bond Street
Frederick, Maryland 21701
301-607-6031 Phone
info@casengineering.com
www.casengineering.com

CAS ENGINEERING-DC, LLC
4836 MacArthur Boulevard, NW, 2nd Floor
Washington, DC 20007
202-393-7200 Phone
info@cas-dc.com
www.cas-dc.com

OWNER/APPLICANT
Kim Shur
8 Primrose Street
Chevy Chase, MD 20815
(202) 674-8134 Direct
kshur@gmail.com

ARCHITECT
Thomson & Cooke Architects PLLC
5155 MacArthur Blvd, NW
Washington, DC 20016
Attn: Neal Thomson
(202) 686-6883 Direct
(202) 747-4823 Cell
neal@thomsoncooke.com

SHEET TITLE:
SWM Plan & Details



CAS ENGINEERING DRAINAGE NOTES

- All storm drain pipe to be Schedule 40 PVC or of higher quality.
- Triple R-Tank units (Heavy Duty) by ACF Environmental to be used for Drywell E. R-Tanks are for Town of Chevy Chase requirements only, and do not count towards Section 2.
- Downspout leaders originating directly from downspouts to be 4" diameter PVC, unless noted otherwise. Provide 6" PVC for downspouts originating from roof areas 2, 3, 4, 5, 7, 8, & 10.
- Maintain minimum 12" cover over all pipe. Pipe slopes to be 2% minimum.
- All areaway and window well drains to sump pump - by plumber - unless noted otherwise.
- Sump pump discharge to be located so as to avoid impact to the neighboring properties and to avoid recirculation of water.
- The permittee shall install a splash block at the bottom of each downspout.
- Maintenance of gutters, downspouts, leaf filters, inlet drain pipes, drainage swales, drywells and other drainage related items should be performed as needed, but at least twice per year.
- Drainage swales and drainage patterns shall not be impeded with trees, landscaping, fences, etc.
- Window wells shall have a minimum freeboard of 6 inches and should be kept free of leaves and debris.
- Ground cover (seed, sod, etc.) shall be selected based on soil conditions, drainage, sun exposure, final grade slopes, etc. per M.D.E. specifications.
- Multi-Flow™ or equivalent drainage systems are recommended in lawn areas with a 3% slope or less.
- Gutters and downspouts to be installed early as possible, subject to availability of materials and labor.
- Sediment control devices must be inspected daily and with extra care before storm events. On disturbed sites they should be monitored during storm events.
- Areas where construction is complete, such as side and rear yards, should be permanently stabilized as early as possible and in conformance with M.D.E. specifications.
- Sump pumps serving driveways, patios, areaways, and other large open impervious surfaces must be sized for a 100-year storm event.

APPROVED
Montgomery County
Historic Preservation Commission
Robert A. Votaw

REVIEWED
By Dan.Bruechert at 10:50 am, Mar 30, 2023

**8 Primrose Street
Lot 11 & Part of Lot 12, Block 57,
Chevy Chase, Section 2
-- Chevy Chase Village --
Building Permit Site Plan,
Stormwater Management Plan,
and Sediment Control Plan
Sediment Control Permit #: 288826**

ESD COMPUTATIONS - 8 PRIMROSE STREET (HYDROLOGIC SOIL GROUP B)

TOTAL LOT AREA FOR P.DETERMINATION	TOTAL IMPERVIOUS AREA FOR P.DETERMINATION	LOT IMPERVIOUS PERCENTAGE FOR P.DETERMINATION	R ₁ RAINFALL TARGET APPLY IMPERVIOUS COVER PERCENTAGE TO TABLE 5.3
14,000 S.F.	6,877 S.F.	49.1%	1.8 IN.
TOTAL L.O.D. AREA FOR R, ESD, DETERMINATION	TOTAL IMPERVIOUS AREA WITHIN L.O.D. FOR R, DETERMINATION	L.O.D. IMPERVIOUS AREA FOR R, DETERMINATION	R ₁ RUNOFF VOLUME (0.6-0.988)
10,250 S.F.	3,830 S.F.	37.4%	0.59

PER SECTION 5.2.3, THE SIZE OF ANY PRACTICE IS LIMITED TO THE RUNOFF FROM THE 1-YR STORM (Q₁) VOLUME = (2.4)(R₁)(A₁) / 2.4
VOLUME PROVIDED VIA DRYWELLS MAY NOT EXCEED THE Q₁ MAXIMUM (1-YEAR STORM)

DETERMINE ESD REQUIRED (BASED ON THE L.O.D. (LIMIT OF DISTURBANCE))
TARGET ESD₁ = (P₁)(R₁)(A₁) / 12
TOTAL SITE ESD VOLUME REQUIRED: 999.4 CF

DRYWELL STRUCTURE	IMPERVIOUS AREA (SQ. FT.)	DRAINAGE AREA (SQ. FT.)	MINIMUM REQUIRED ESD, (CU FT.)	DRYWELL DIMENSIONS (L x W x D) (FT)	DRYWELL SURFACE AREA (A) (SQ. FT.)	TOTAL DRYWELL VOLUME	Q ₁ MAXIMUM VOLUME DRYWELL (PER YEAR STORM)	VOLUME PROVIDED VIA DRYWELLS
A	2	334 SF	65.0 CF	8.5 (LENGTH) x 4.0 (WIDTH) x 5.0 (DEPTH)	86 SF	171 C.F.	178 C.F.	171 C.F.
	3	265 SF		9.0 (WIDTH) x 5.0 (DEPTH)				
	10	264 SF						
TOTAL	863 SF							
B	9	268 SF	61.0 CF	8.5 (LENGTH) x 4.0 (WIDTH) x 5.0 (DEPTH)	28 SF	55 C.F.	55 C.F.	55 C.F.
	11	22 SF	21.2 CF	4.0 (WIDTH) x 5.0 (DEPTH)				
	12	122 SF						
TOTAL	298 SF							
C	4	427 SF	11.0 (LENGTH) x 9.0 (WIDTH) x 5.0 (DEPTH)	11.0 (LENGTH) x 9.0 (WIDTH) x 5.0 (DEPTH)	99 SF	198 C.F.	203 C.F.	198 C.F.
	5	268 SF		9.0 (WIDTH) x 5.0 (DEPTH)				
	7	17 SF	78.0 CF	5.0 (DEPTH)				
TOTAL	695 SF							
D	15	732 SF	9.4 (LENGTH) x 8.0 (WIDTH) x 5.0 (DEPTH)	9.4 (LENGTH) x 8.0 (WIDTH) x 5.0 (DEPTH)	75 SF	150 C.F.	151 C.F.	150 C.F.
	16	17 SF	58.0 CF	5.0 (DEPTH)				
	17	629 SF						
TOTAL	732 SF							

NON-ROOFTOP DISCONNECTS	IMPERVIOUS AREA NO.	DRAINAGE AREA (SQ. FT.)	CONTRIBUTING IMPERVIOUS LENGTH	DISCONNECT LENGTH PROVIDED (MIN. BE 5'-0")	RE PROVIDED BY DISCONNECT	ESD PROVIDED VIA DISCONNECT	MIN. NON-ROOFTOP DISCONNECT LENGTH (MIN. BE 5'-0")	VOLUME PROVIDED VIA NON-ROOFTOP DISCONNECT
NON-ROOFTOP AREAS TO DISCONNECT CREDITS	13	772 SF	17.0 FT	17.0 FT	1.0	61.1 CF	61.1 CF	61.1 CF
TOTAL		772 SF						

1	178 SF	EX. ROOF AREA - NOT TREATED BY THIS PLAN DUE TO INSUFFICIENT FRONT YARD LOT AREA FOR ADDITIONAL SWM FACILITIES
6	89 SF	EX. ROOF AREA - NOT TREATED BY THIS PLAN. ROOF AREA DOES NOT HAVE A DOWNSPOUT
11	22 SF	EX. ROOF AREA - NOT TREATED BY THIS PLAN. ROOF AREA DOES NOT HAVE A DOWNSPOUT
12	122 SF	EX. WALK - NOT ABLE TO BE TREATED BY THIS PLAN DUE TO INSUFFICIENT FRONT YARD LOT AREA FOR ADDITIONAL SWM FACILITIES
14	1,134 SF	PROP. POOL & POOL DECK - NOT ABLE TO BE TREATED BY THIS PLAN DUE TO INSUFFICIENT FRONT YARD LOT AREA FOR ADDITIONAL SWM FACILITIES
16	1,091 SF	EX. DRIVEWAY & PROP. DRIVEWAY EXPANSION - NOT TREATED PER MCDPS. TREATMENT WILL BE PROVIDED PER TOWN OF CHEVY CHASE REQUIREMENTS AND NO CREDIT IS APPLIED TOWARDS COUNTY ESD REQUIREMENTS
17	629 SF	EX. DRIVEWAY & PROP. DRIVEWAY EXPANSION - NOT ABLE TO BE TREATED BY THIS PLAN DUE TO INSUFFICIENT LOT AREA FOR ADDITIONAL SWM FACILITIES
TOTAL	3,257 SF	

TOTAL SITE IMPERVIOUS AREA	ESD PROVIDED VIA DRYWELLS	ESD PROVIDED VIA DISCONNECTS	ESD PROVIDED VIA MICRO-RELIEF TRENCH	ESD PROVIDED VIA LANDSCAPE INFILTRATION	ESD PROVIDED VIA PERMEABLE PAVEMENTS
6,877 SF	999.4 CF	61.1 CF	9.0 CF	66.0 CF	6.0 CF
TOTAL ESD, PROVIDED	1,135.5 CF	1,135.5 CF	1,135.5 CF	1,135.5 CF	1,135.5 CF
ESD, ADEQUATE	687 CF	> 999.4 CF			
IS A, ADEQUATE	1.91 IN.	> 1.80 IN.			

DRYWELL SCHEDULE - 8 PRIMROSE STREET

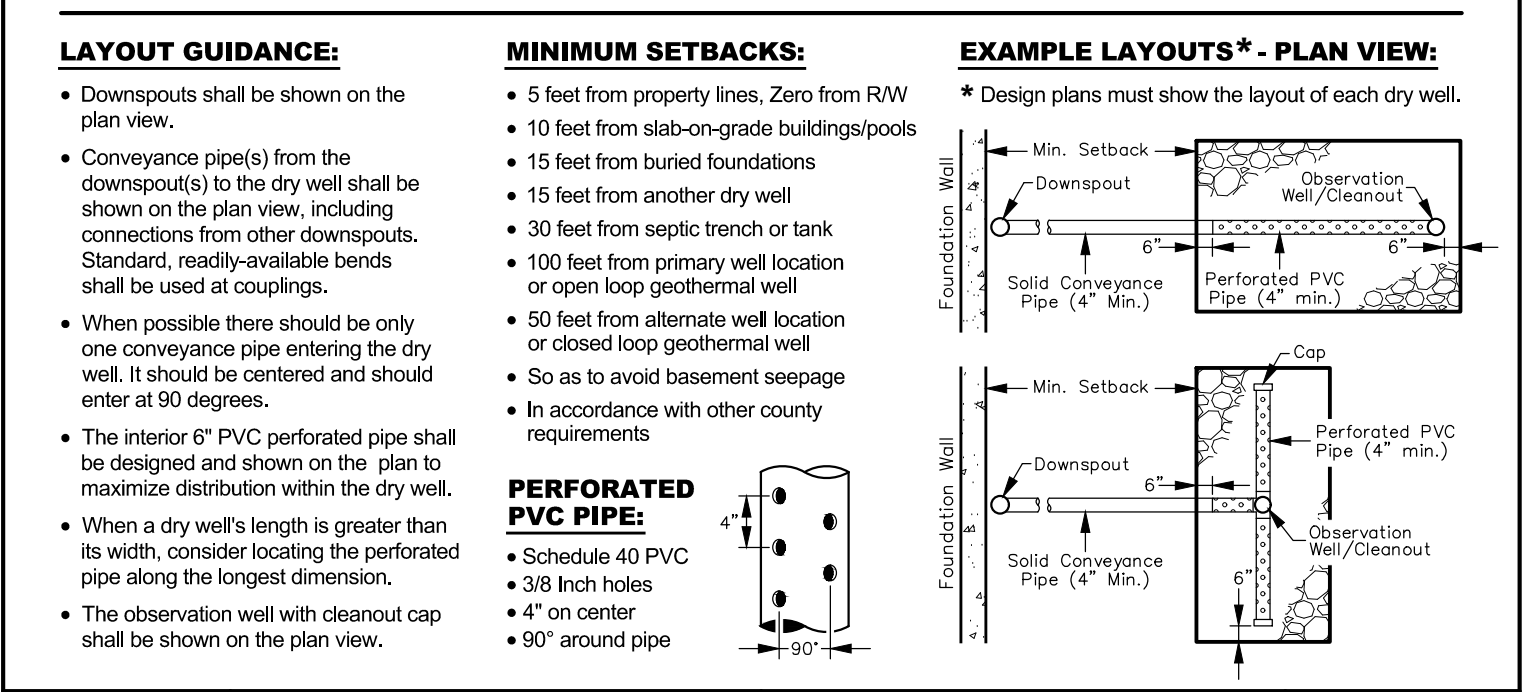
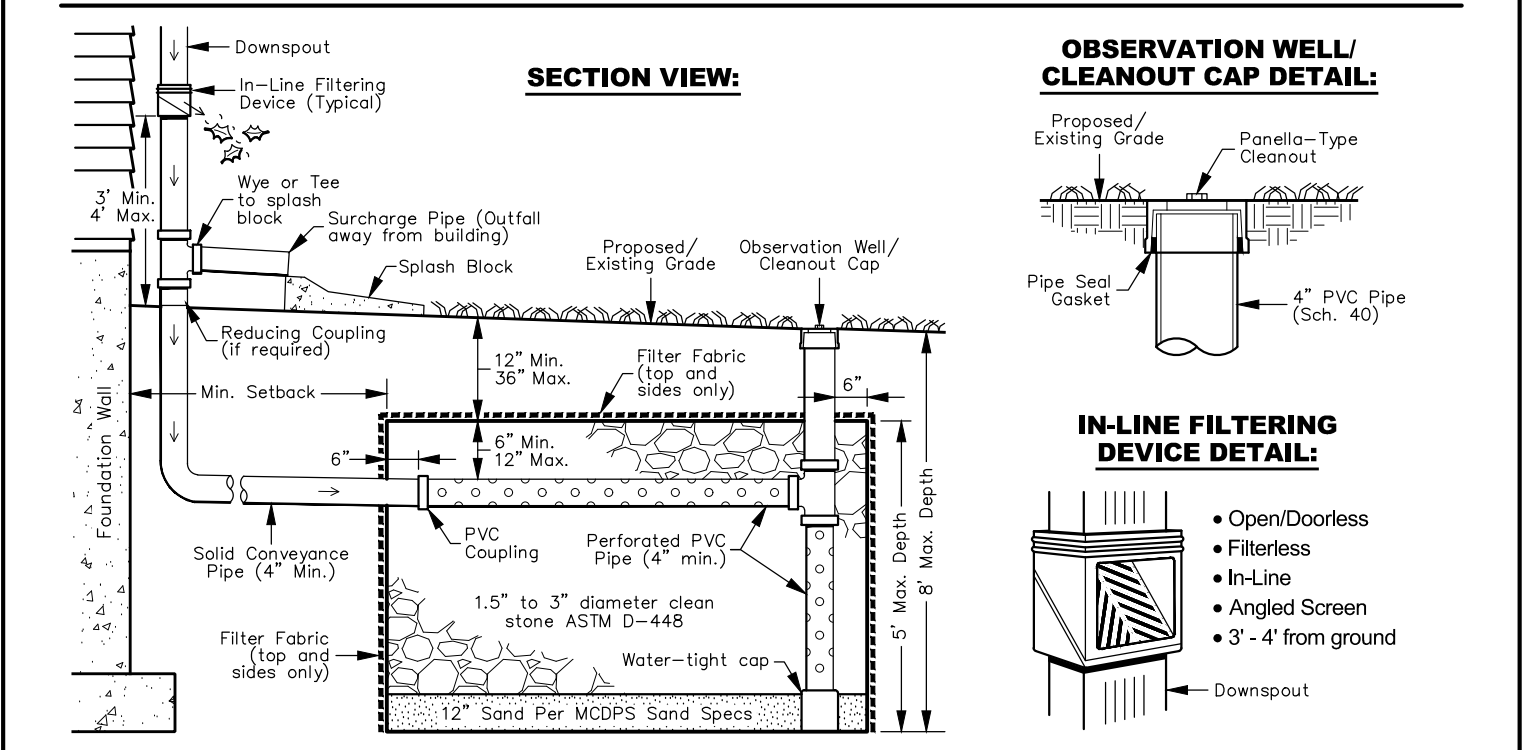
DRYWELL STRUCTURE	FINISHED GRADE (LOW SIDE)	FINISHED GRADE (HIGH SIDE)	ELEVATION AT TOP OF GRAVEL (1'-2" over)	COVER DEPTH OVER DRYWELL (2" MAX)	PIPE INVERT IN FROM DOWNSPOUTS	TOTAL DEPTH OF GRAVEL (5' max. depth)	ELEVATION AT BOTTOM OF SAND	TOTAL DEPTH OF SAND	ELEVATION AT BOTTOM OF SAND	TOTAL DEPTH OF DRYWELL (5' max. depth)	TOTAL DEPTH OF DRYWELL FROM GRADE (5' max. depth)	RECOMMENDED OVERFLOW
A	355.4	355.8	353.4	2.4	352.4	4.0 ft	348.4	1.0 ft	347.4	5.0 ft	7.4 ft	
B	355.7	356.0	353.7	2.3	352.7	4.0 ft	348.7	1.0 ft	347.7	5.0 ft	7.3 ft	POP UP EMITTER AT DRYWELL CLEANOUTS AND A BURCHARGE PIPE AT EACH DOWNSPOUT
C	355.7	355.8	353.7	2.1	352.7	4.0 ft	348.7	1.0 ft	347.7	5.0 ft	7.1 ft	
D	355.8	356.1	353.8	2.3	352.8	4.0 ft	348.8	1.0 ft	347.8	5.0 ft	7.3 ft	

R-TANK SCHEDULE - CHEVY CHASE VILLAGE ONLY

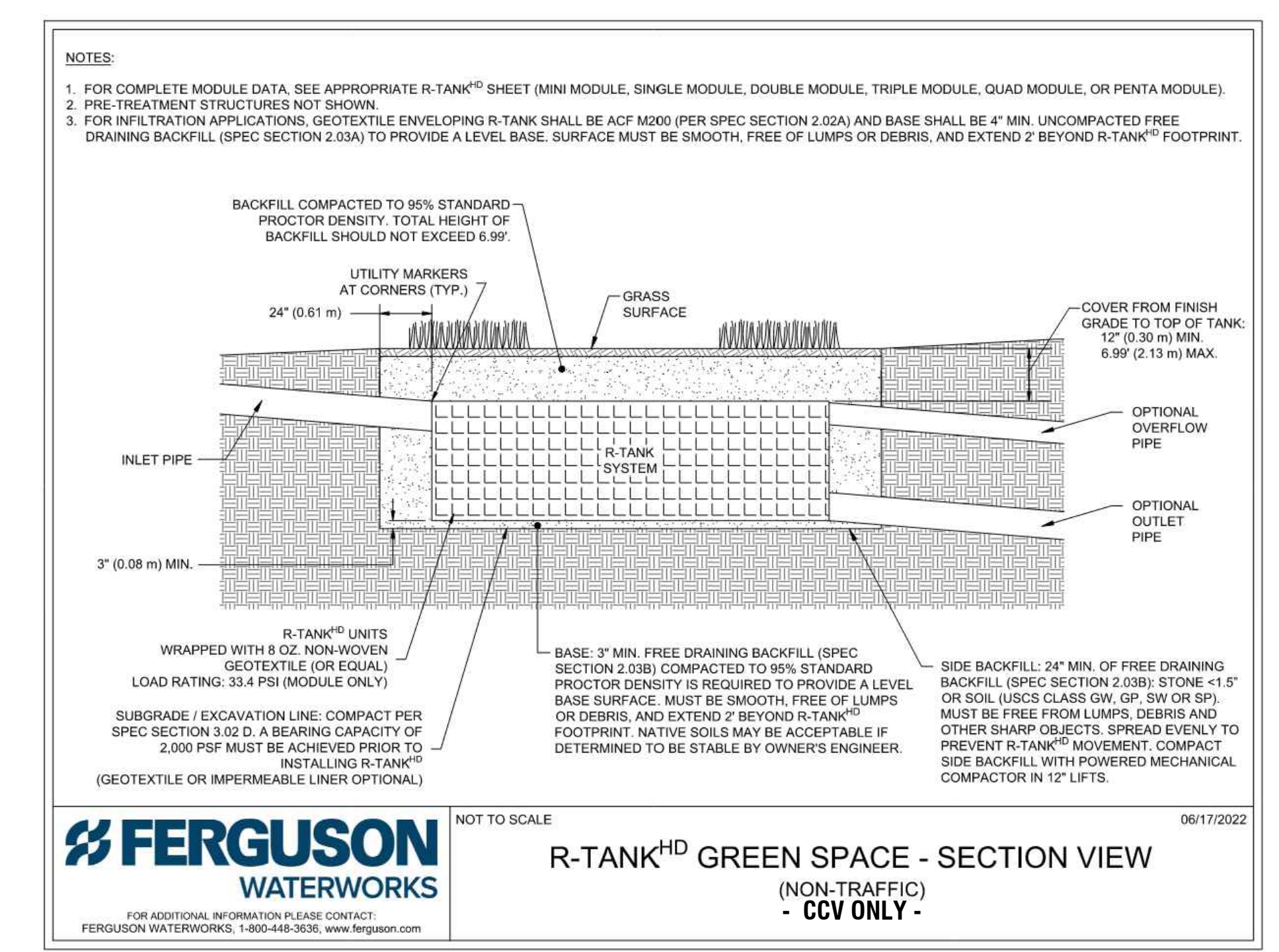
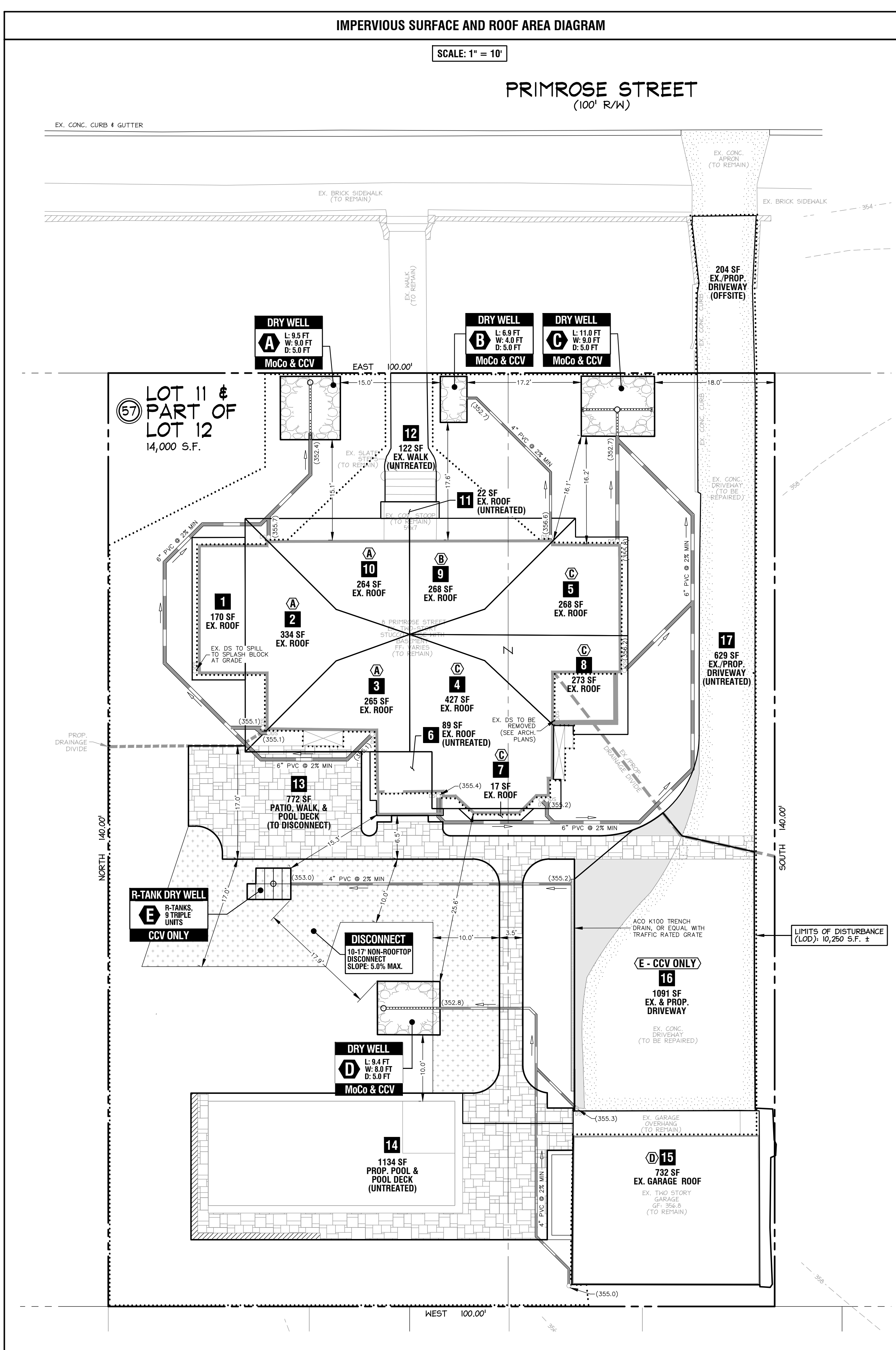
DRYWELL STRUCTURE	FINISHED GRADE (LOW SIDE)	FINISHED GRADE (HIGH SIDE)	ELEVATION AT TOP OF TRENCH (1'-2" over)	PIPE INVERT IN FROM TRENCH DRAIN	DEPTH OF R-TANK FACILITY	ELEVATION OF R-TANK AT BOTTOM OF SUBBASE	TOTAL DEPTH OF SUBBASE	TOTAL DEPTH OF R-TANK (5' max. depth)	TOTAL DEPTH OF DRYWELL FROM GRADE (5' max. depth)	RECOMMENDED OVERFLOW	
E (Triple Unit R-Tank)	356.0	356.1	355.0	353.0	4.2 ft	350.8	0.3 ft	350.5	4.5 ft	5.8 ft	DRYWELL WILL RELEASE AT TRENCH DRAIN

GENERAL NOTES:

- Dry wells may receive water from roof downspouts only.
- Length, width, and depth of each dry well is to be as specified by the design engineer on the approved plan.
- Manufactured sand is not acceptable. Refer to the MCDPS Sand Specifications.
- With the inspector's approval, dry well locations may be field adjusted for site conditions. All adjustments must meet the minimum setbacks.
- Impermeable liners may be used when specified by the design engineer and shown on the plan.
- Overflow pipes may be used when specified by the design engineer and shown on the plan. They shall be set at a minimum 2% slope. If the outlet is to be daylight the outlet invert shall be shown.
- Pop-up emitters may be used when specified by the design engineer and shown on the plan.



MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES
WATER RESOURCES SECTION
DATE: SEPTEMBER 2021
SCALE: NONE



SAND SPECIFICATIONS

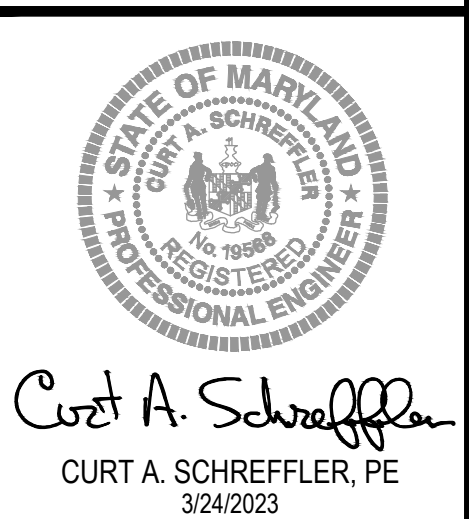
WASHED ASTM C33 FINE AGGREGATE CONCRETE SAND IS UTILIZED FOR STORMWATER MANAGEMENT APPLICATIONS IN MONTGOMERY COUNTY, IN ADDITION TO THE ASTM C33 SPECIFICATION, SAND MUST MEET ALL OF THE FOLLOWING CONDITIONS:

- Sand must meet gradation requirements for ASTM C-33 Fine Aggregate Concrete Sand. ASASTM M-6 gradation is also acceptable.
- Sand must be silica-based, no limestone based products may be used. If the material is white or gray in color, it is probably not acceptable.
- Sand must be clean, natural, unwashed sand deposits may not be used. Likewise, sand that has become contaminated by improper storage or installation practices will be rejected.
- Manufactured sand or stone dust is not acceptable under any circumstance.

OBSERVATION WELL WITH REMOVABLE 6" POP-UP DRAINAGE EMITTER

PART NO.	DESCRIPTION	COLOR	WT. EA. (LBS)	PRODUCT CLASS	SPECIFICATIONS
620	6" Pop-Up Emitter	Green	0.61	10ND	ND# #020, 6" Polyethylene Drainage Pop-Up, 48" Drainage Emitter, Center Spring Loaded Drive Pop-Up with UV Inhibitor, 100 gals./min.

DATE	REVISION
07/13/23	LAK - SCP Updated for Initial Plan Review by MCDPS-WRS.
03/24/23	LAK - SCP Updated for Second Plan Review by MCDPS-WRS.



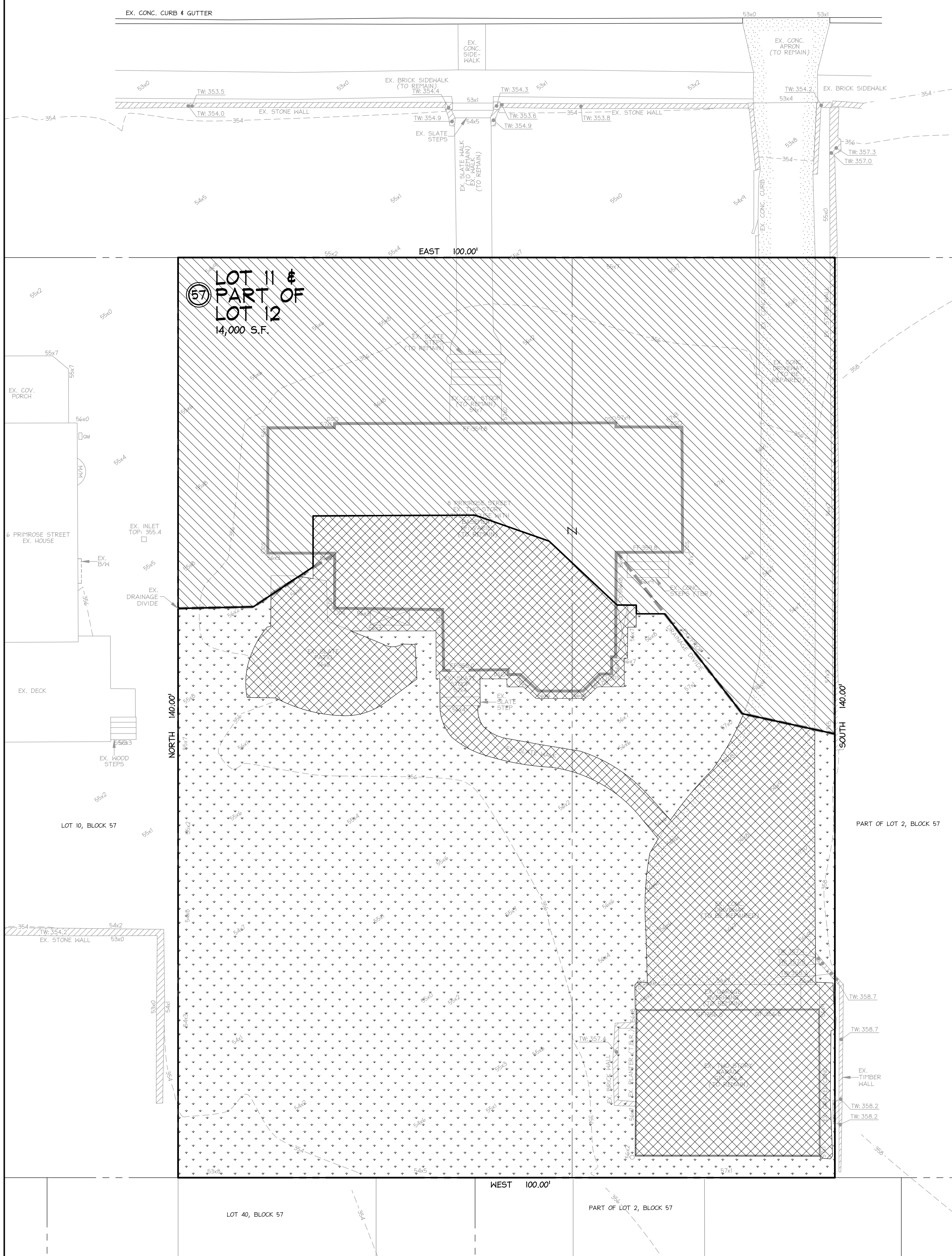
Curt A. Schreffler, PE
CURT A. SCHREFFLER, PE
3/24/2023

PROFESSIONAL ENGINEER CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 19598, expiration date 3/31/2024, and that this plan meets MCDPS criteria for building and sediment control permit applications.

DRAINAGE DIAGRAM - PRE-DEVELOPMENT CONDITIONS

SCALE: 1" = 10'

**PRIMROSE STREET
(100' R/W)**

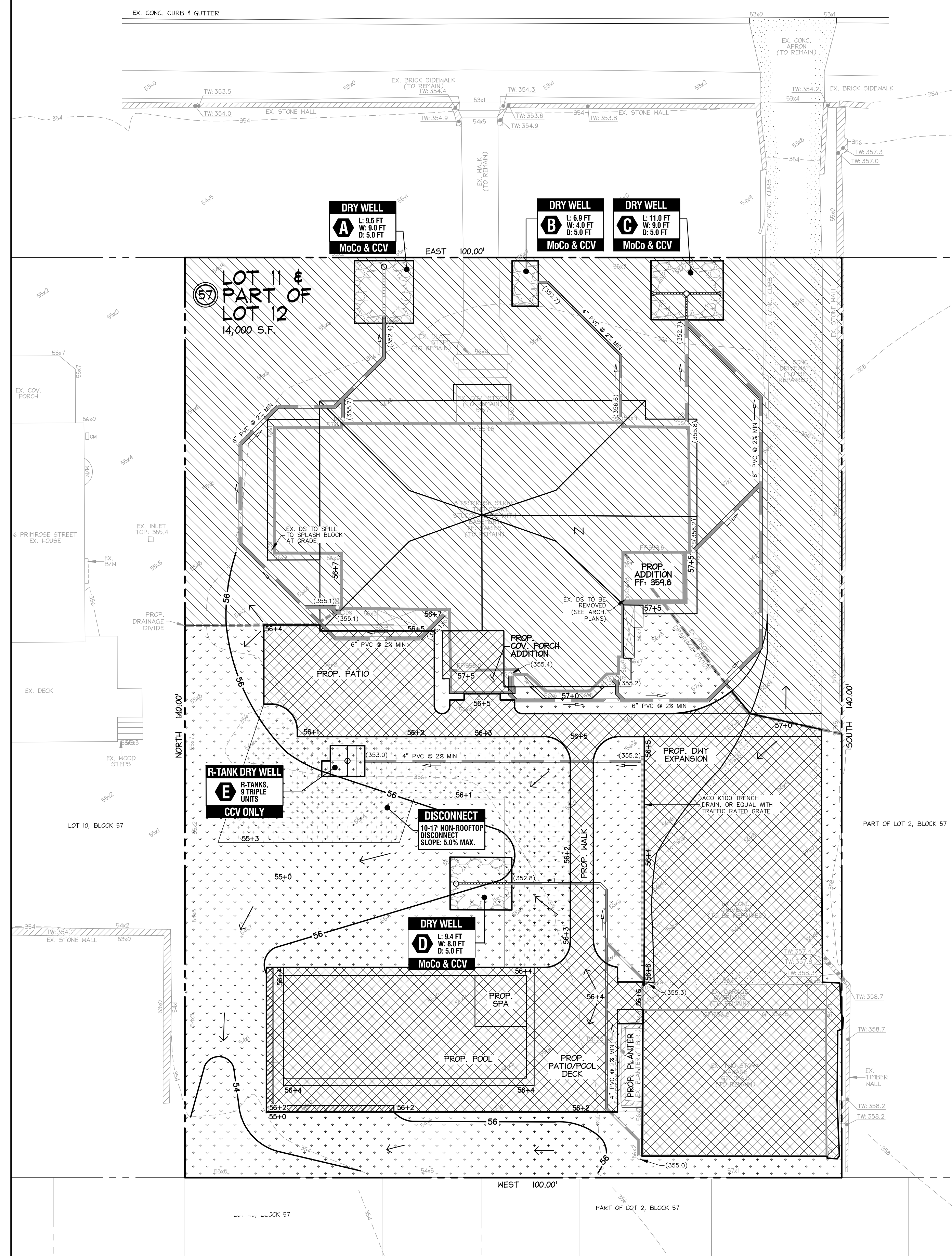


	Existing impervious surfaces draining to adjacent Lots 10 & 40: 3,088 square feet		Existing pervious surfaces draining to adjacent Lot 10 & 40: 5,793 square feet		Existing area draining to the public right-of-way: 5,120 square feet
Total surface area draining to adjacent Lots 10 & 40: 8,889 square feet					

DRAINAGE DIAGRAM - POST-DEVELOPMENT CONDITIONS

SCALE: 1" = 10'

**PRIMROSE STREET
(100' R/W)**



	Proposed impervious surfaces draining to adjacent Lots 10 & 40: 3,779 square feet		Proposed pervious surfaces draining to adjacent Lots 10 & 40: 4,350 square feet		Proposed area draining to the public right-of-way: 6,171 square feet
Total surface area draining to adjacent Lots 10 & 40: 7,829 square feet					

APPROVED
Montgomery County
Historic Preservation Commission
[Signature]

REVIEWED
By Dan.Bruechert at 10:50 am, Mar 30, 2023

CHEVY CHASE VILLAGE DRAINAGE ANALYSIS

8 PRIMROSE STREET - 1 YEAR STORM PRE & POST DEVELOPMENT DRAINAGE ANALYSIS

PRE-DEVELOPMENT CONDITION	POST-DEVELOPMENT CONDITION
DA - (TO LOTS 10 & 40)	DA - (TO LOTS 10 & 40)
ONSITE DRAINAGE AREA = 8,889 S.F.	ONSITE DRAINAGE AREA = 7,829 S.F.
IMPERVIOUS AREA = 3,088 S.F.	IMPERVIOUS AREA = 3,779 S.F.
%IMPERVIOUS = 34.8%	%IMPERVIOUS = 48.2%
$R_p = (0.05 + 0.009 \cdot I_{avg}) = 36.4\%$	$R_p = (0.05 + 0.009 \cdot I_{avg}) = 48.4\%$
$D_{avg} = (0.57 \cdot R_p) A_{imp} / 12 = 693.0 \text{ C.F.}$	$D_{avg} = (0.57 \cdot R_p) A_{imp} / 12 = 813.3 \text{ C.F.}$
	118.3 C.F. INCREASE
	150 C.F. STORAGE PROVIDED BY DRYWELL D
	116 C.F. STORAGE PROVIDED BY R-TANKS
	266 C.F. TOTAL STORAGE PROVIDED

8 PRIMROSE STREET - 10 YEAR STORM PRE & POST DEVELOPMENT DRAINAGE ANALYSIS

PRE-DEVELOPMENT CONDITION	POST-DEVELOPMENT CONDITION
DA - (TO LOTS 10 & 40)	DA - (TO LOTS 10 & 40)
ONSITE DRAINAGE AREA = 8,889 S.F.	ONSITE DRAINAGE AREA = 7,829 S.F.
IMPERVIOUS AREA = 3,088 S.F.	IMPERVIOUS AREA = 3,779 S.F.
%IMPERVIOUS = 34.8%	%IMPERVIOUS = 48.2%
$R_p = (0.05 + 0.009 \cdot I_{avg}) = 36.4\%$	$R_p = (0.05 + 0.009 \cdot I_{avg}) = 48.4\%$
$D_{avg} = (0.77 \cdot R_p) A_{imp} / 12 = 1,286.1 \text{ C.F.}$	$D_{avg} = (0.77 \cdot R_p) A_{imp} / 12 = 1,593.2 \text{ C.F.}$
	226.1 C.F. INCREASE
	150 C.F. STORAGE PROVIDED BY DRYWELL D
	116 C.F. STORAGE PROVIDED BY R-TANKS
	266 C.F. TOTAL STORAGE PROVIDED

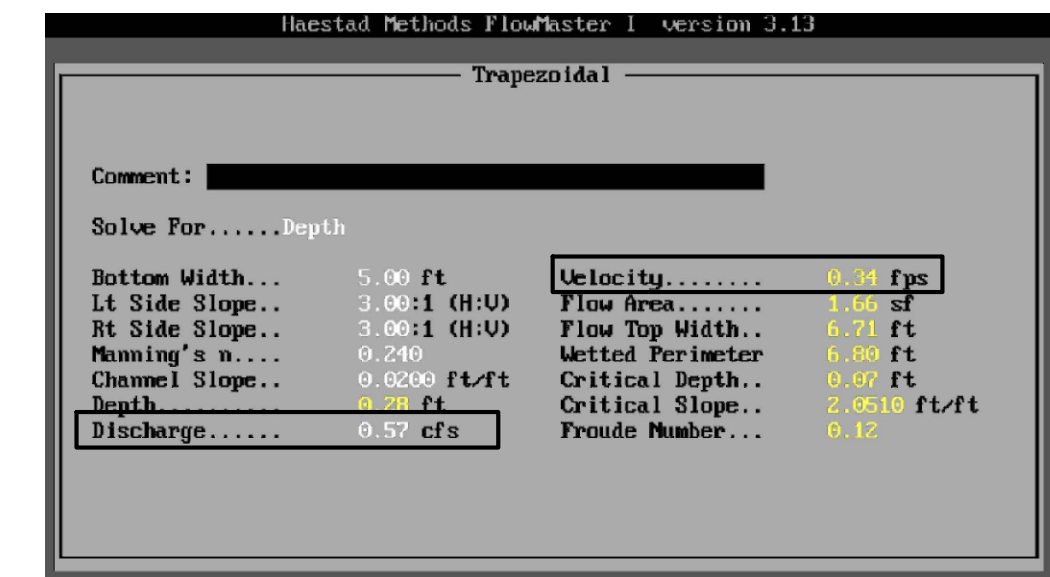
DRAINAGE SUMMARY
THE POST-DEVELOPMENT RUNOFF VOLUME TO LOTS 10 & 40 FOR THE 1-YEAR AND 10-YEAR STORMS IS DECREASED FROM THE EXISTING CONDITION. THIS IS ACCOMPLISHED THROUGH THE USE OF ONE (1) GRAVEL DRYWELL (DRYWELL D) AND NINE (9) TRIPLE UNIT R-TANKS (DRYWELL E) IN THE REAR YARD AS WELL AS PIPING REAR PORTIONS OF THE EXISTING HOUSE ROOF TO DRYWELLS IN THE FRONT YARD WHICH RELEASE TO THE RIGHT-OF-WAY.

AS REQUESTED BY THE COUNTY & CCV, ROOF AREAS BEING PIPED FROM THE REAR YARD TO THE FRONT YARD ARE CONVEYED VIA 6" PVC.

MONTGOMERY COUNTY DRAINAGE ANALYSIS

8 PRIMROSE STREET - 10 YEAR STORM PRE & POST DEVELOPMENT DRAINAGE ANALYSIS, RATIONAL METHOD

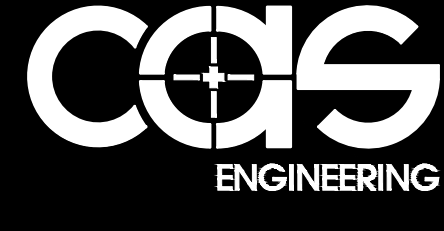
PRE-DEVELOPMENT CONDITION	POST-DEVELOPMENT CONDITION
Drainage Area to Lots 10 & 40 = 8,889 S.F.	Drainage Area to Lots 10 & 40 = 7,829 S.F.
A, A _c = 0.24	A, A _c = 0.16
Impervious Area = 3,088 S.F.	Impervious Area = 3,779 S.F.
Weighted C Factor = 0.65	Weighted C Factor = 0.54
C = 0.21 (Pw MCDOT, open spaces/roofs)	C = 0.21 (Pw MCDOT, open spaces/roofs)
C = 0.9 (Pw MCDOT, impervious)	C = 0.9 (Pw MCDOT, impervious)
T _r (Pw MCDOT) = 10 Minutes	T _r (Pw MCDOT) = 10 Minutes
I _r (Pw MCDOT) = 5.9 in/hr	I _r (Pw MCDOT) = 5.9 in/hr
Q ₁₀ = C x I _r x A = 0.54 CFS	Q ₁₀ = C x I _r x A = 0.57 CFS



DRAINAGE SUMMARY
WITHOUT CONSIDERATION OF STORMWATER MANAGEMENT, THERE IS AN APPROXIMATE 0.03 CFS INCREASE IN FLOW RATE TO LOTS 10 & 40 FROM THE PRE-DEVELOPMENT TO POST-DEVELOPMENT CONDITION FOR THE 10-YEAR DESIGN STORM DUE TO THE INCREASE IN IMPERVIOUS SURFACE ON THE SUBJECT PROPERTY.

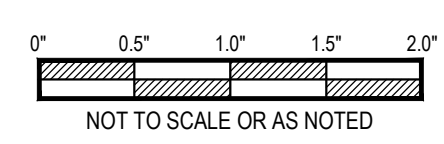
A 0.03 CFS INCREASE IS NEGLIGIBLE. TO BE CONSERVATIVE, THE Q(10) POST-DEVELOPMENT RUNOFF (0.57 CFS) WAS MODELLED IN A 5-FOOT WIDE TRAPEZOIDAL CHANNEL. THE Q(10) DISCHARGES AT 0.34 FPS WHICH IS A NON-EROSIVE VELOCITY.

Lot 11 & Part of Lot 12, Block 57, Chevy Chase, Section 2
Part Book A, Plat No. 26, Recorded 9/8/1909
Bethesda (7th) Election District, Montgomery County, MD
**8 Primrose Street
Chevy Chase, Maryland 20815**



CAS ENGINEERING-MD
10 South Barns Street
Frederick, Maryland 21701
301-507-6031 Phone
info@casengineering.com
www.casengineering.com

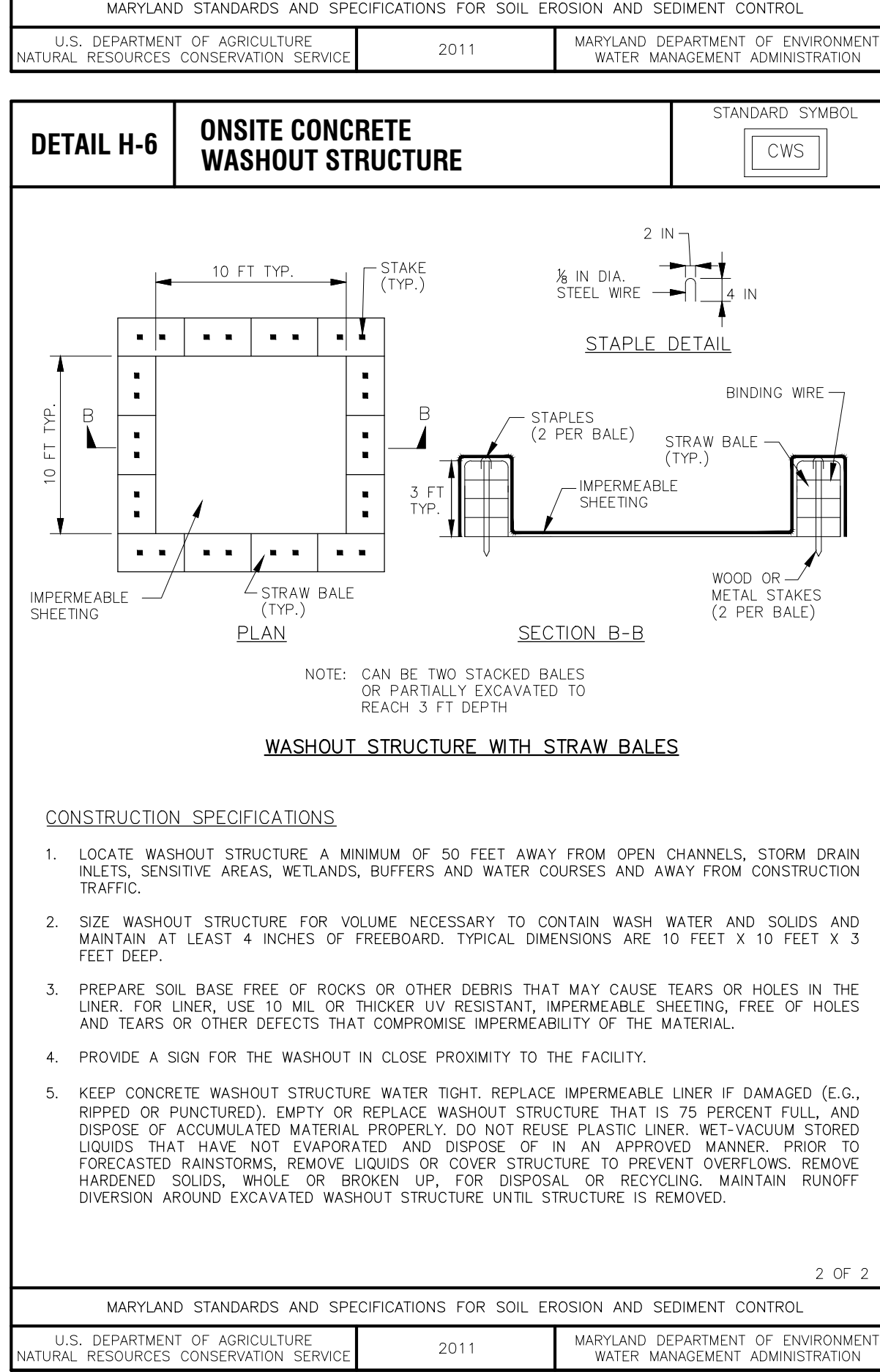
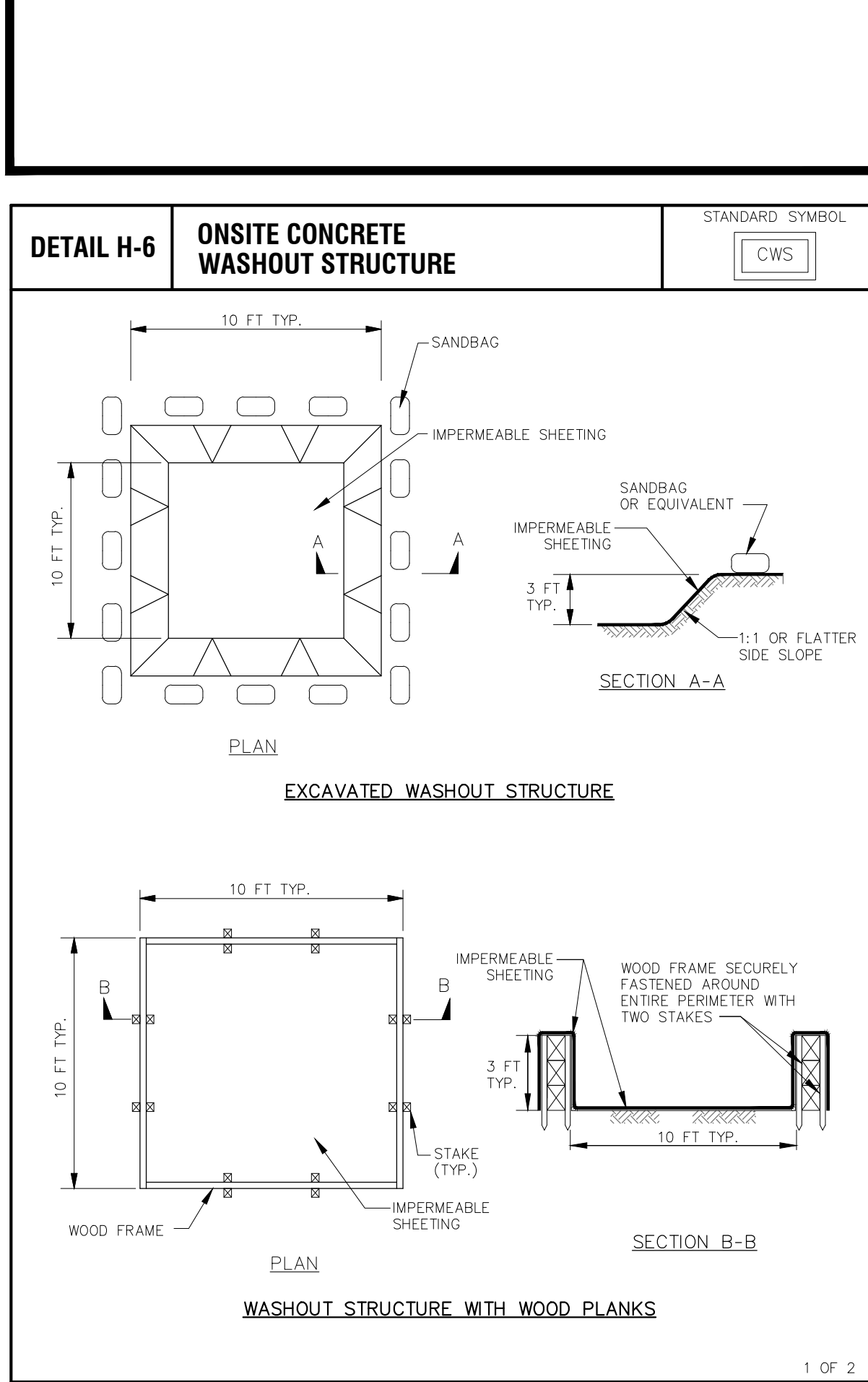
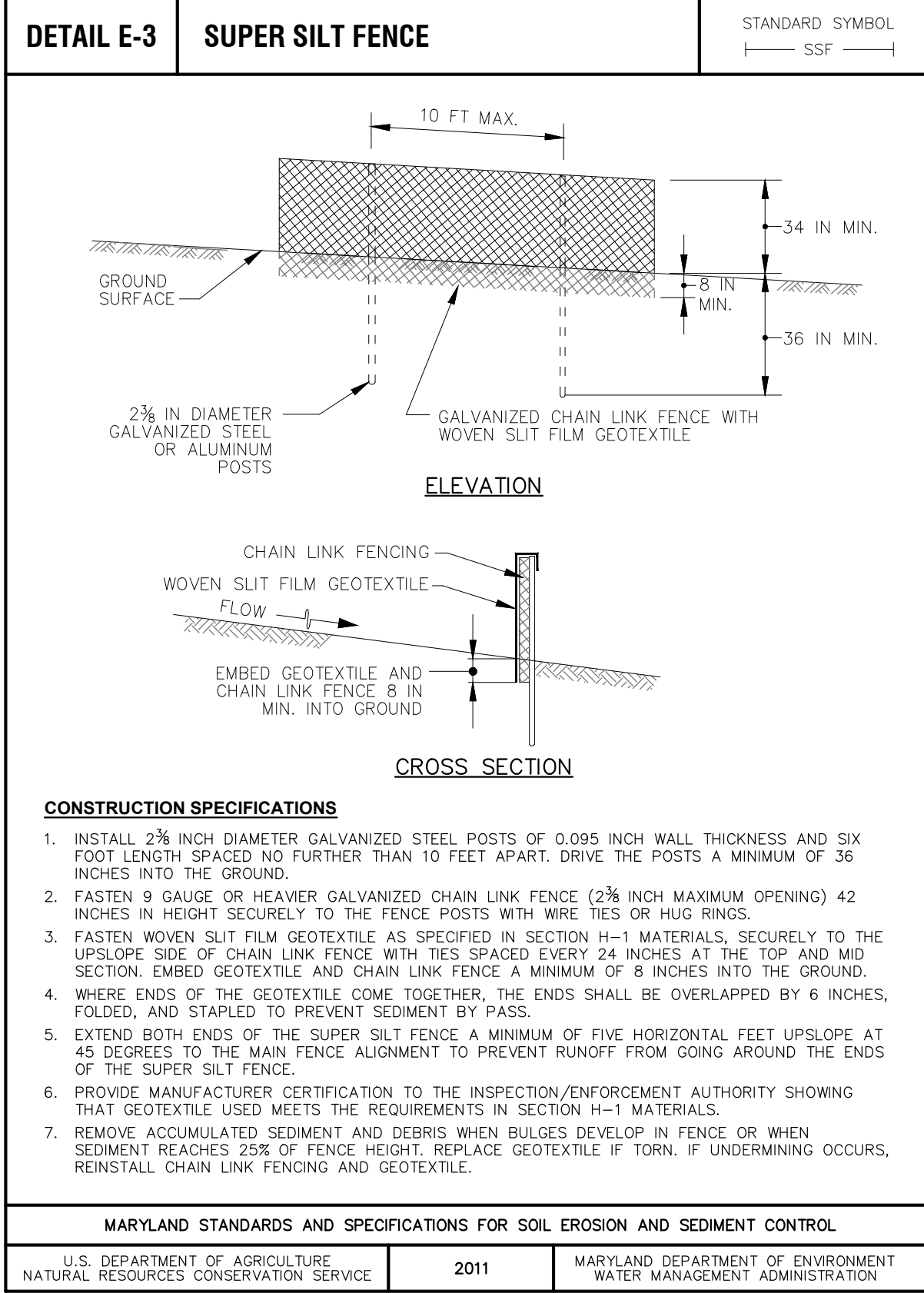
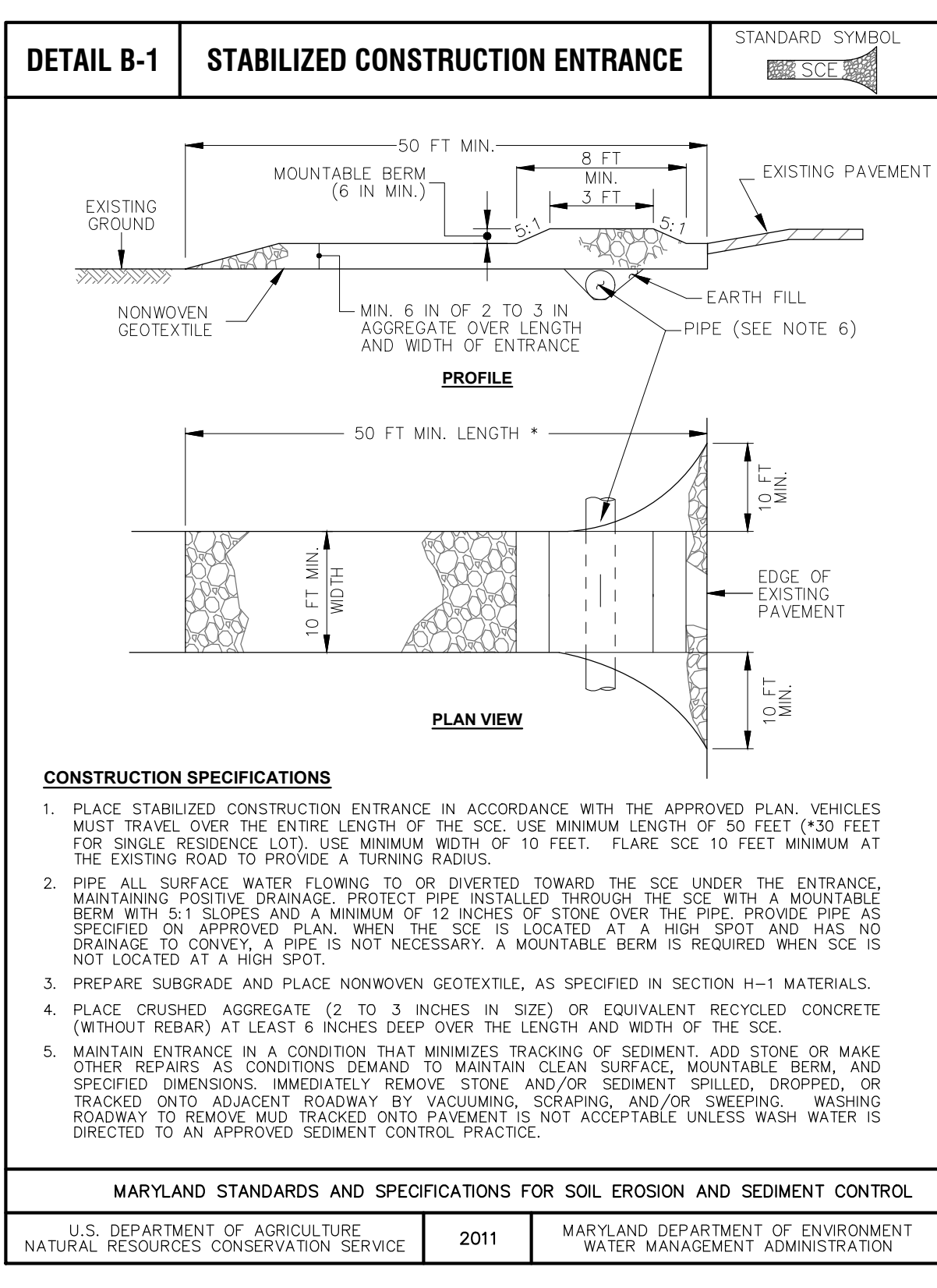
CAS ENGINEERING-DC, LLC
4836 MacArthur Boulevard, NW, 2nd Floor
Washington, DC 20007
202-393-7200 Phone
info@cas-dc.com
www.cas-dc.com



SHEET TITLE:
Drainage Analysis and Calculations

STANDARD EROSION AND SEDIMENT CONTROL NOTES

- The permittee shall notify the Department of Permitting Services (DPS) forty-eight (48) hours before commencing any land disturbing activity and, unless waived by the Department, shall be required to hold a pre-construction meeting between them or their representative, their engineer and an authorized representative of the Department.
- The permittee must obtain inspection and approval by DPS at the following points:
 - At the required pre-construction meeting.
 - Following installation of sediment control measures and prior to any other land disturbing activity.
 - During the installation of a sediment basin or stormwater management structure at the required inspection points (see inspection checklist on plan). Notification prior to commencing construction is mandatory.
- Prior to removal or modification of any sediment control structures).
- Prior to final acceptance.
- The permittee shall construct all erosion and sediment control measures per the approved plan and construction sequence, shall have them inspected and approved by the Department prior to beginning any other land disturbing activity, shall ensure that all runoff from disturbed areas is directed to the sediment control devices, and shall not remove any erosion or sediment control measure without prior permission from the Department.
- The permittee shall protect all points of construction ingress and egress to prevent the deposition of materials onto traversed public thoroughfare(s). All materials deposited onto public thoroughfare(s) shall be removed immediately.
- The permittee shall inspect periodically and maintain continuously in effective operating condition, all erosion and sediment control measures until such time as they are removed with prior permission from the Department. The permittee is responsible for immediately repairing or replacing any sediment control measures which have been damaged or removed by the permittee or any other person.
- Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:
 - Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3 horizontal to 1 vertical (3:1), and
 - Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.
 All areas disturbed outside of the perimeter sediment control system must be minimized and stabilized immediately. Maintenance must be performed as necessary to ensure continued stabilization.
- The permittee shall apply sod, seed, and anchored straw mulch, or other approved stabilization measures to all disturbed areas within seven (7) calendar days after stripping and grading activities have ceased on that area. Maintenance shall be performed as necessary to ensure continued stabilization. Active construction areas such as borrow or stockpile areas, roadway improvements, and areas within fifty (50) feet of a building under construction may be exempt from this requirement, provided that erosion and sediment control measures are installed and maintained to protect those areas.
- Prior to removal of sediment control measures, the permittee shall stabilize all contributory disturbed areas with required soil amendments and topsoil, using sod or an approved permanent seed mixture and an approved anchored mulch. Wood fiber mulch may only be used in seeding season when the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized within seven (7) calendar days of establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, an approved temporary seed and straw anchored mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be completed prior to the following April 15.
- The site permit, work, materials, approved SCSWV plans, and test reports shall be available at the site for inspection by duly authorized officials of Montgomery County.
- Surface drainage flows over unestablished cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing mechanical devices to lower the water down slope without causing erosion. Dikes shall be installed and maintained at the top of cut or fill slopes until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Mechanical devices must be provided at points of concentrated flow where erosion is likely to occur.
- Permanent swales or other points of concentrated water flow shall be stabilized within 3 calendar days of establishment with sod or seed with an approved erosion control matting or by other approved stabilization measures.
- Sediment control devices shall be removed, with permission of the Department, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.
- No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas or on residential lots. A slope gradient of up to 2:1 will be permitted in non-maintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.
- The permittee shall install a splashblock at the bottom of each downspout unless the downspout is connected by a drain line to an acceptable outlet.
- For finished grading the permittee shall provide adequate gradients so as to prevent water from standing on the surface of lawns more than twenty-four (24) hours after the end of a rainfall, except in designated drainage courses and swale flow areas, which may drain as long as forty-eight (48) hours after the end of a rainfall.
- Sediment traps or basins are not permitted within 20 feet of a building which is existing or under construction. No building may be constructed within 20 feet of a sediment trap or basin.
- All inlets in non-sump areas shall have asphalt berms installed at the time of base paving establishment.
- The sediment control inspector has the option of requiring additional sediment control measures, as deemed necessary.
- All trap elevations are relative to the outlet elevation, which must be on existing undisturbed ground.
- Vegetative stabilization shall be performed in accordance with the standards and specifications for soil erosion and sediment control.
- Sediment trap(s)/basin(s) shall be cleaned out and restored to the original dimensions when sediment has accumulated to the point of one-half (1/2) the wet storage depth of the trap/basin (1/4 the wet storage depth for ST-III) or when required by the sediment control inspector.
- Sediment removed from traps/basins shall be placed and stabilized in approved areas, but not within a floodplain.
- All sediment basins and traps must be surrounded with a welded wire safety fence. The fence must be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater than two inches in width and four inches in height, with a minimum of 14 gauge wire. Safety fence must be maintained in good condition at all times.
- No excavation in the areas of existing utilities is permitted unless their location has been determined. Call "Miss Utility" at 1-800-257-7777, 48 hours prior to the start of work.
- Off-site spoil or borrow areas must have prior approval by DPS.
- Sediment trap/basin dewatering for cleanup or repair may only be done with the DPS inspector's permission. The inspector must approve the dewatering method for each application. The following methods may be considered:
 - Pump discharge may be directed to another on-site sediment trap or basin, provided it is of sufficient volume and the pump intake is floated to prevent agitation or suction of deposited sediments, or
 - The pump intake may utilize a removable pumping station and must discharge into an undisturbed area through a non-erosive outlet, or
 - The pump intake may be floated and discharge into a dirt bag (12 oz. non-woven fabric), or approved equivalent, located in an undisturbed buffer area.
 Remember: Dewatering operation and method must have prior approval by the DPS inspector.
- The permittee must notify the Department of all utility construction activities within the permitted limits of disturbance prior to the commencement of those activities.
- Topsoil must be applied to all pervious areas within the limits of disturbance prior to permanent stabilization in accordance with MDE "Standards and Specifications for Soil Preparation, Topsoiling, and Soil Amendments".



APPROVED
Montgomery County
Historic Preservation Commission

REVIEWED
By Dan.Bruechert at 10:50 am, Mar 30, 2023

DESIGN CERTIFICATION

I hereby certify that this plan has been prepared in accordance with the "2011 Maryland Standards and Specification for Soil Erosion and Sediment Control," Montgomery County Department of Permitting Services Executive Regulations 5-90, 7-02AM and 36-90, and Montgomery County Department of Public Works and Transportation "Storm Drain Design Criteria" dated August 1980.

Curt A. Schreffler 3/24/23
DESIGN ENGINEER SIGNATURE DATE
CURT A. SCHREFFLER, P.E. No. 19568
PRINTED NAME AND TITLE REGISTRATION NUMBER

CERTIFICATION OF THE QUANTITIES

I hereby certify that the estimated total amount of excavation and fill as shown on these plans has been computed to 20 cubic yards of excavation, 30 cubic yards of fill and the total area to be disturbed as shown on these plans has been determined to be 9,800 square feet.

Curt A. Schreffler 3/24/23
DESIGN ENGINEER SIGNATURE DATE
CURT A. SCHREFFLER, P.E. No. 19568
PRINTED NAME AND TITLE REGISTRATION NUMBER

OWNER/DEVELOPER CERTIFICATION

I/We hereby certify that all clearing, grading, construction, and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.

Curt A. Schreffler 3/24/23
SIGNATURE DATE
KIM SHUR 3/24/23
PRINTED NAME AND TITLE REGISTRATION NUMBER
CHEVY CHASE, MD, 20815

**8 Primrose Street
Lot 11 & Part of Lot 12, Block 57,
Chevy Chase, Section 2
-- Chevy Chase Village --
Building Permit Site Plan,
Stormwater Management Plan,
and Sediment Control Plan
Sediment Control Permit #: 288826**

CAS JOB NO.: 21-1046
DATE: 03/2023

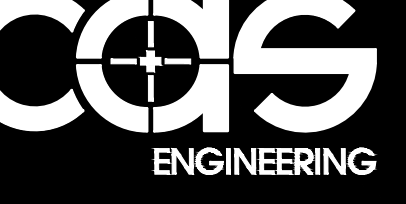
DATE REVISION
07/19/23 LAK - SCP Updated for Initial Plan Review by MCDPS-WRS.
03/24/23 LAK - SCP Updated for Second Plan Review by MCDPS-WRS.



Curt A. Schreffler
CURT A. SCHREFFLER, PE
3/24/2023

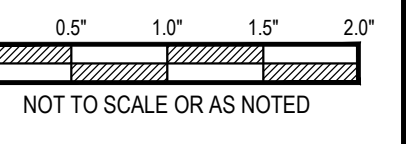
PROFESSIONAL ENGINEER CERTIFICATION:
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 19568, expiration date 3/30/2024, and that this plan meets MCDPS criteria for building and sediment control permit applications.

Lot 11 & Part of Lot 12, Block 57, Chevy Chase, Section 2
Plat Book A, Plat No. 26, Recorded 9/8/1909
Bethesda (7th) Election District, Montgomery County, MD
8 Primrose Street
Chevy Chase, Maryland 20815



CAS ENGINEERING-MD
10 South Davis Street
Frederick, Maryland 21701
301-607-6031 Phone
info@casengineering.com
www.casengineering.com

CAS ENGINEERING-DC, LLC
4836 MacArthur Boulevard NW, 2nd Floor
Washington, DC 20007
202-393-7200 Phone
info@cas-dc.com
www.cas-dc.com



SHEET TITLE:
Sediment Control Details
and Certifications

REVISIONS	DATE	DESCRIPTION
1	2022.08.19	HAWP SUBMISSION
2	2022.10.17	CCV SPECIAL PERMIT
3	2023.05.15	CCV FENCE PERMIT REV 1
4	2023.05.15	CCV FENCE PERMIT REV 2
5	2023.06.15	TREE RELOCATION
6	2023.09.14	HAWP RE-SUBMISSION

PROJECT NARRATIVE:

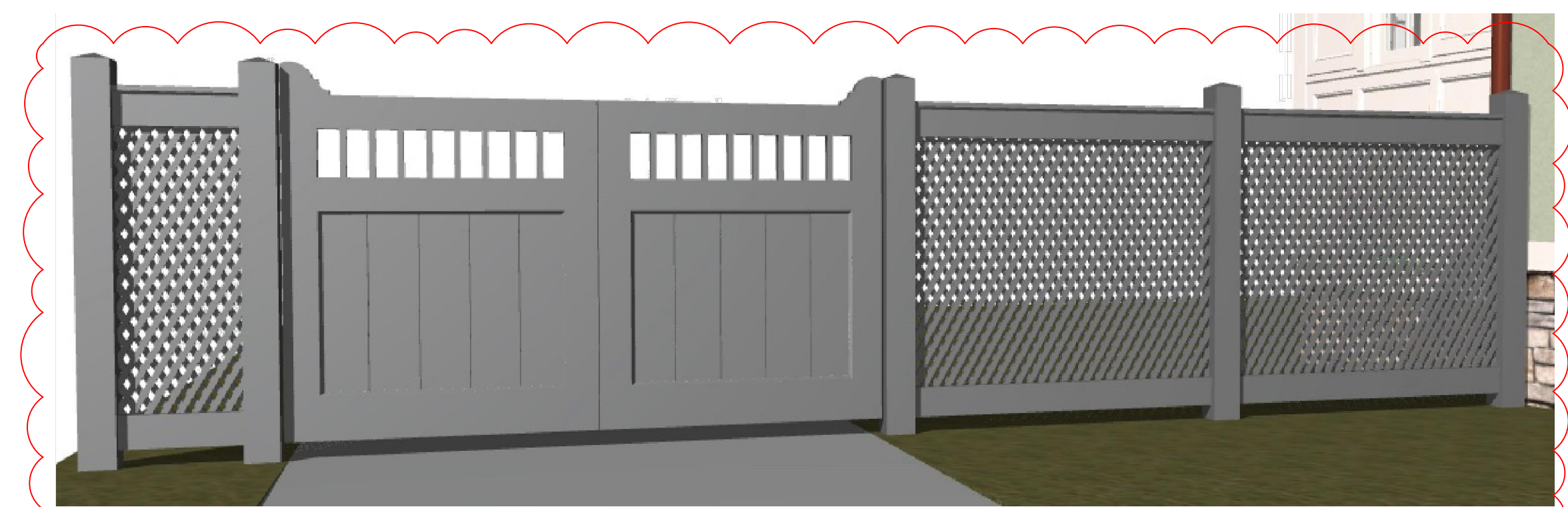
THE SCOPE OF WORK 8 PRIMROSE STREET IS TO INCLUDE THE FOLLOWING:

PROPOSED STONE WALKWAY TO BE ADDED LEADING FROM GARAGE, TO POOL DECK AND HOUSE.

PROPOSED STONE POOL DECK TO BE ADDED TO REAR YARD.

PROPOSED STONE TERRACE TO BE ADDED TO REAR OF HOUSE.

PROPOSED 60" MIN., 72" MAX. HIGH DOUBLE GATE AND FENCING TO BE ADDED BETWEEN HOUSE AND PERIMETER FENCE.



DOUBLE GATE AND FENCE
(60" MIN, 72" MAX HEIGHT, PAINTED WOOD)



POOL COPING EXAMPLE
(THERMAL BLUESTONE)



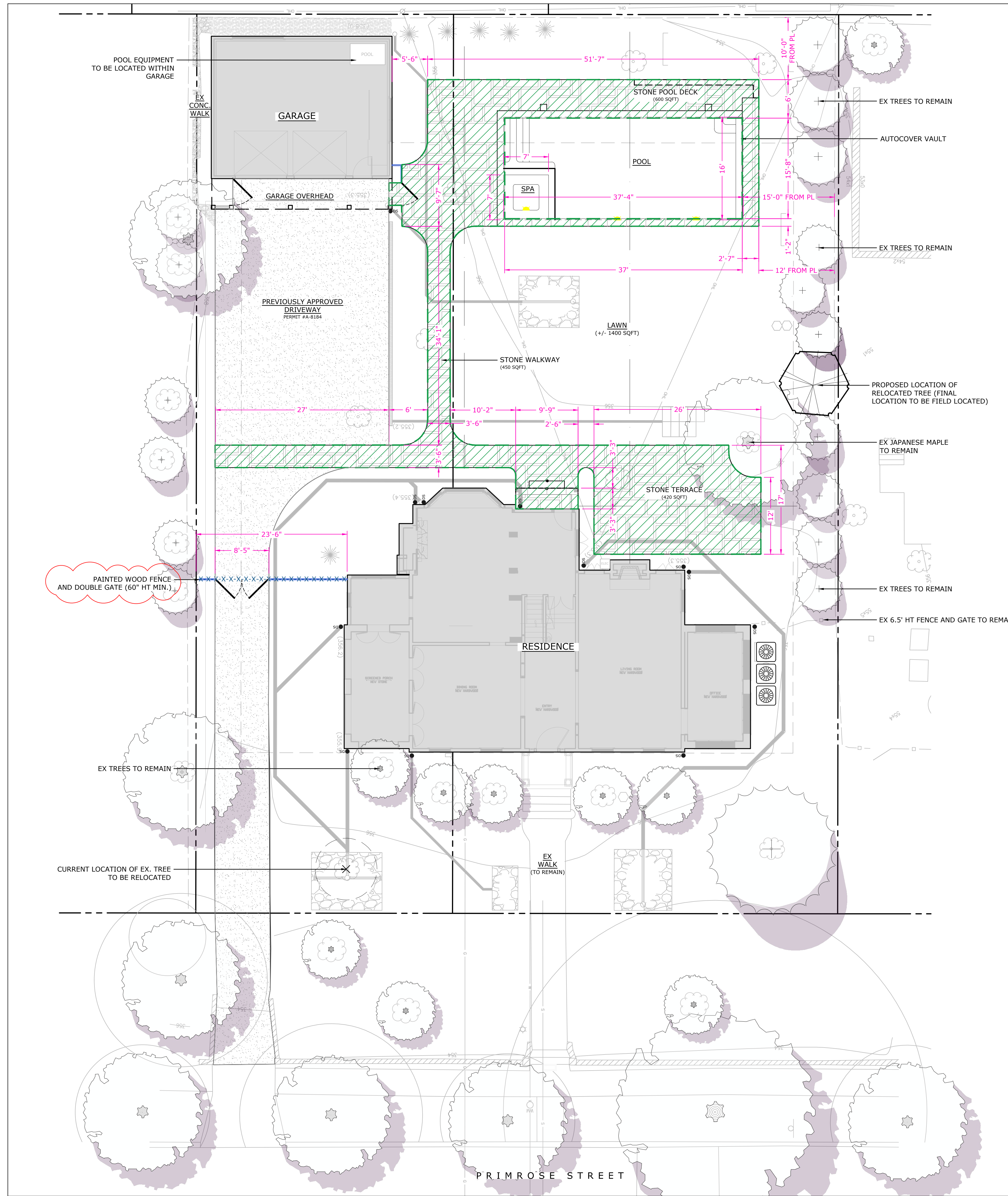
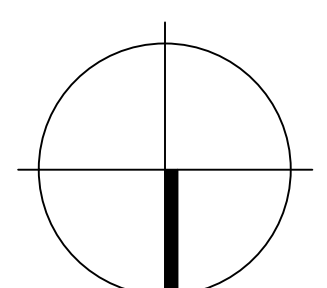
STONE POOL DECK, TERRACE AND WALKWAYS EXAMPLE
(PENNSYLVANIA BLUESTONE W/NATURAL CLEFT & FULL RANGE COLOR)

APPROVED
Montgomery County
Historic Preservation Commission

REVIEWED
By Dan.Bruechert at 11:19 am, Sep 27, 2023

SHUR RESIDENCE
8 PRIMROSE STREET, CHEVY CHASE, MD
SITE PLAN

DATE: JULY 2022
SCALE: 1/8" = 1'-0"
SHEET NUMBER: L.101



PAINTED WOOD FENCE AND DOUBLE GATE (60" HT MIN.)

CURRENT LOCATION OF EX. TREE TO BE RELOCATED

PRIMROSE STREET