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	SHEET INDEX
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS & DEMO PLAN
3	SITE DEVELOPMENT PLAN
4	SEDIMENT AND EROSION CONTROL PLAN
5	SEDIMENT AND EROSION CONTROL NOTES & DETAILS
6	LANDSCAPE PLAN AND DETAILS

STORMWATER MANAGEMENT SUMMARY					
AREA ID.	ESDV REQUIRED CU.FT.	ESDV PROVIDED CU.FT.	REMARK5		
SITE	295	439			
TOTAL	295	439			

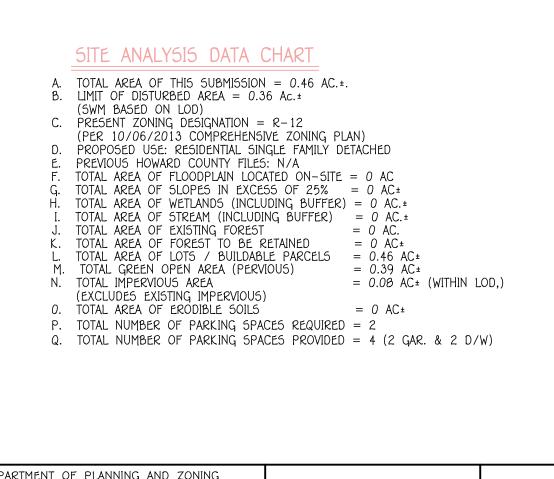
ZONING: R-12 (RESIDENTIAL: SINGLE) DISTRICT TAX MAP No. 38 GRID No. 04 PARCEL No. 572

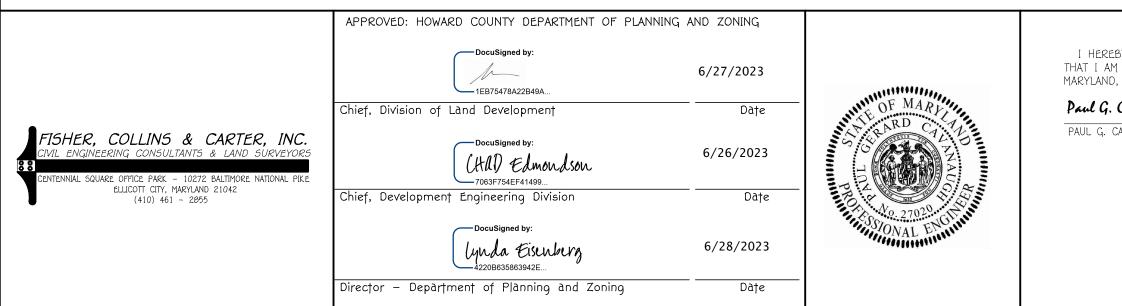
GR055 AREA = 0.46 ACRE LOD = 0.28 ACRES (SITE)RCN = 70TARGET Pe = 1.0REV = 268 cu. ft. OF STORAGE PROVIDED Rev = 8 cu. ft. OF STORAGE REQUIRED

STORMWATER MANAGEMENT PRACTICES							
PARCEL #	PERMEABLE PAVING A-2 (Y/N)	DISCONNECTION OF ROOFTOP RUNOFF N-1 (Y/N)	DISCONNECTION OF NON-ROOFTOP RUNOFF N-2 (Y/N)	FILTERRA INLETS (Y/N)	MICRO BIO-RETENTION M-6 (Y/N)	BIO-RETENTION F-6 (Y/N)	DRYWELL M-5 (Y/N)
572 (5865 MAIN STREET)	YE5	NO	NO	NO	NO	NO	YES - 4

STORMWATER MANAGEMENT INFORMATION								
Parcel No.	Facility Name & Number	Practice Type (Quantity)	Public	Priva†e	Homeowner Maințained	Misc.		
	DW 1			Х	Х			
572	DW 2	M. 5 (4)		Х	Х			
	DW 3	M−5 − (4)		Х	Х	— Standard Dry Well		
	DW 4			Х	Х			
	A2-1	A-2 - (1)		Х	Х	Permeable Paving		

	LEGEND				
5YMBOL	DESCRIPTION				
	EXISTING CONTOUR 2' INTERVAL				
	EXISTING CONTOUR 10' INTERVAL				
	PROPOSED CONTOUR 10' INTERVAL				
	PROPOSED CONTOUR 2' INTERVAL				
×362.2	SPOT ELEVATION				
LOD	LIMIT OF DISTURBANCE				
	EXISTING WATER & SEWER UTILITY EASEMENT				
<u> </u>	EXISTING STORM DRAIN				
<u> </u>	EXISITNG WATER				
<u>8"5</u>	EXISITNG SEWER				
\times	BUILDING AND DRIVES (TO BE REMOVED)				
	SUPER SILT FENCE				
SF	SILT FENCE				
	TYPE 'C' SOIL STABILIZATION MATTING				
	TYPE 'D' SOIL STABILIZATION MATTING				
DF	DIVERSION FENCE				
	A-2 PERMEABLE PAVEMENT				
*	DENOTES EXISTING TREES TO BE REMOVED				
	DENOTES EXISTING TREES TO REMAIN				
	PROPOSED DRAINAGE DIVIDE				
UcD CrD	SOIL BOUNDARIES				

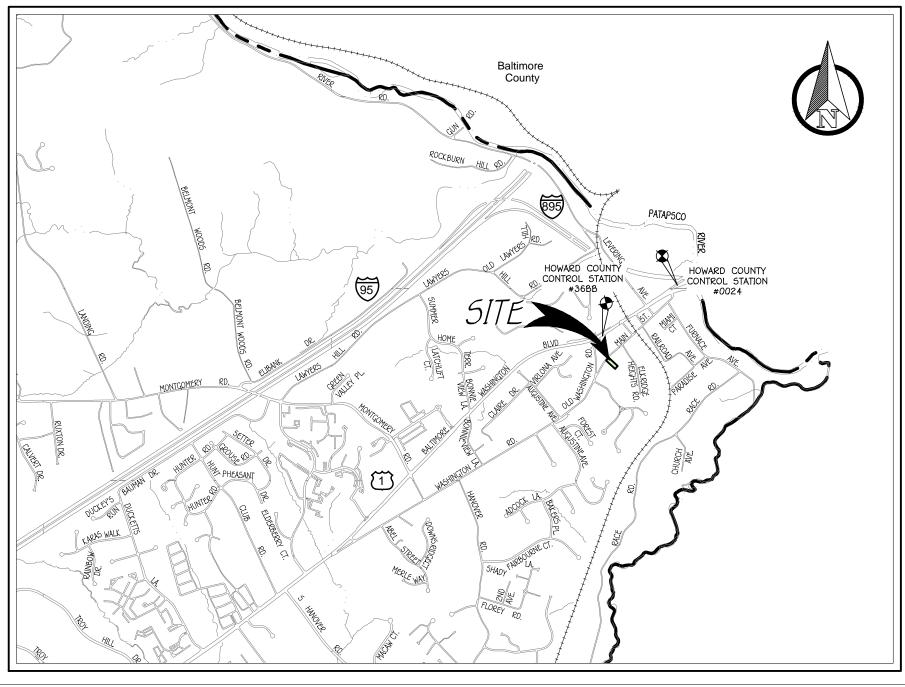




SITE DEVELOPMENT PLAN

MYERS PROPERTY

5865 MAIN STREET



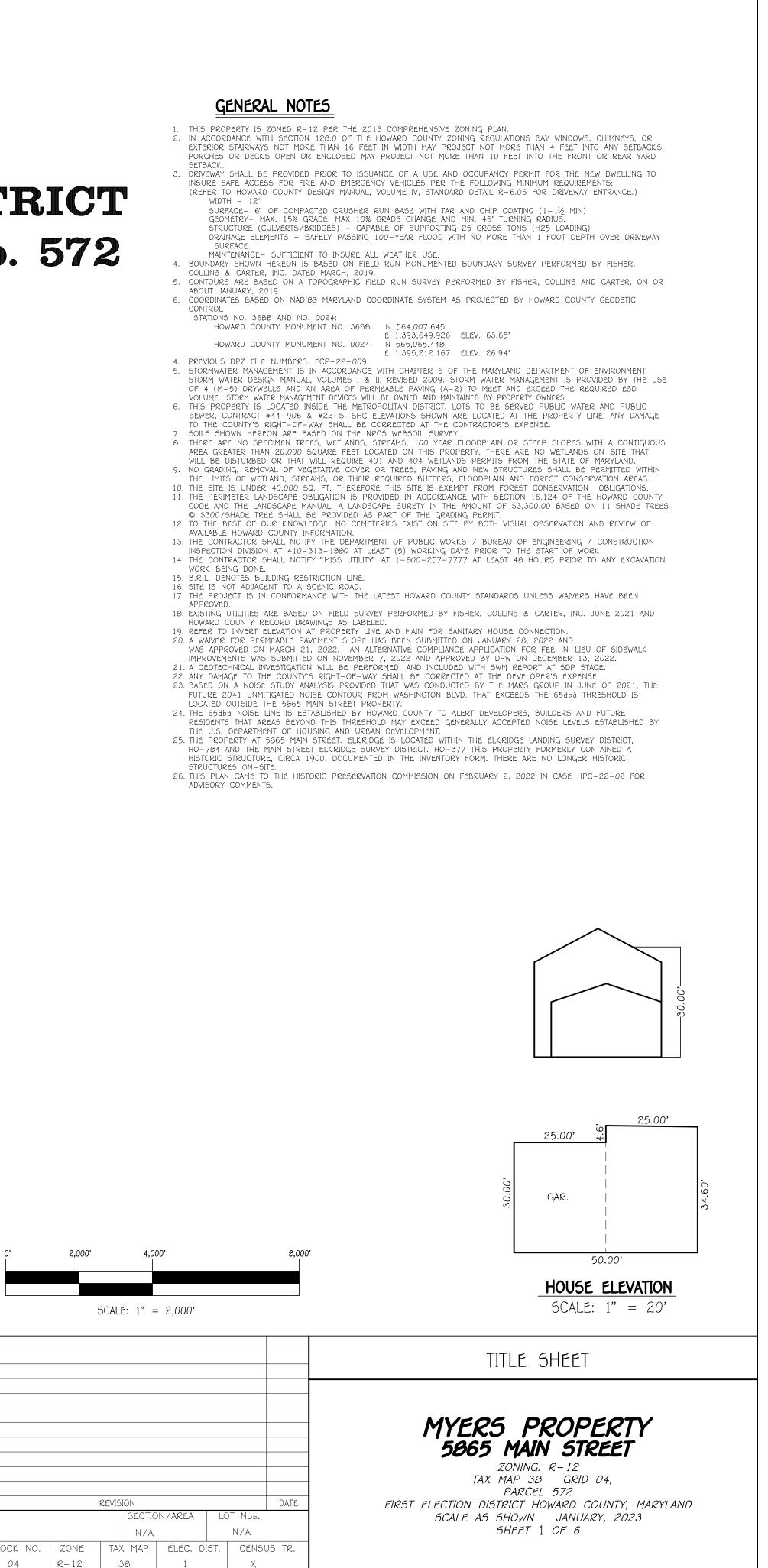
HOWARD COUNTY GEODETIC SURVEY CONTROL NO. 36BB GEODETIC SURVEY CONTROL NO. 0024 N 564.007.645 E 1,393,649.926 N 565,065.448 E 1,395,212.167 ELEVATION: 63.65

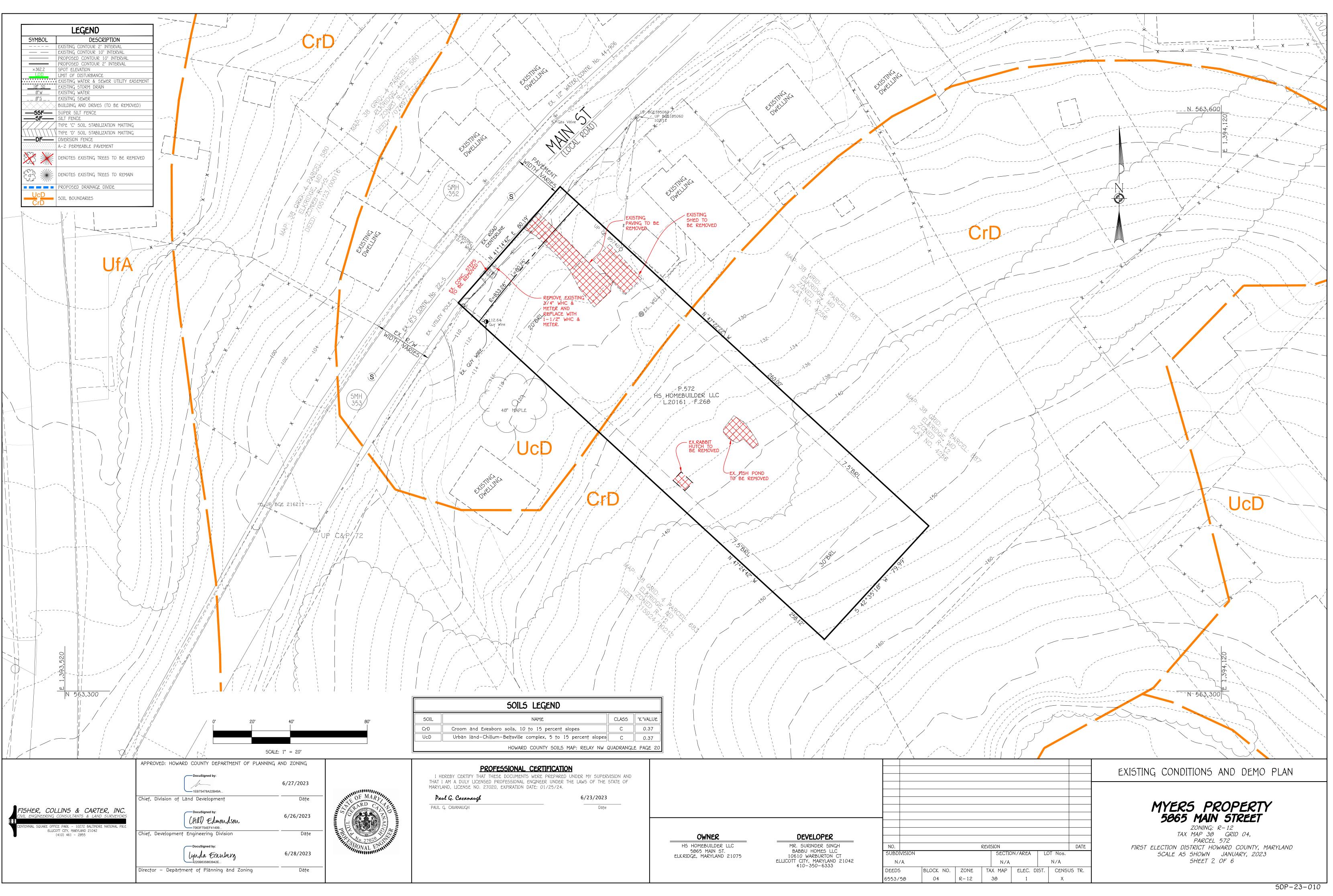
HOWARD COUNTY ELEVATION: 26.94 REFER TO HOWARD CO. ADC MAP 35-F1

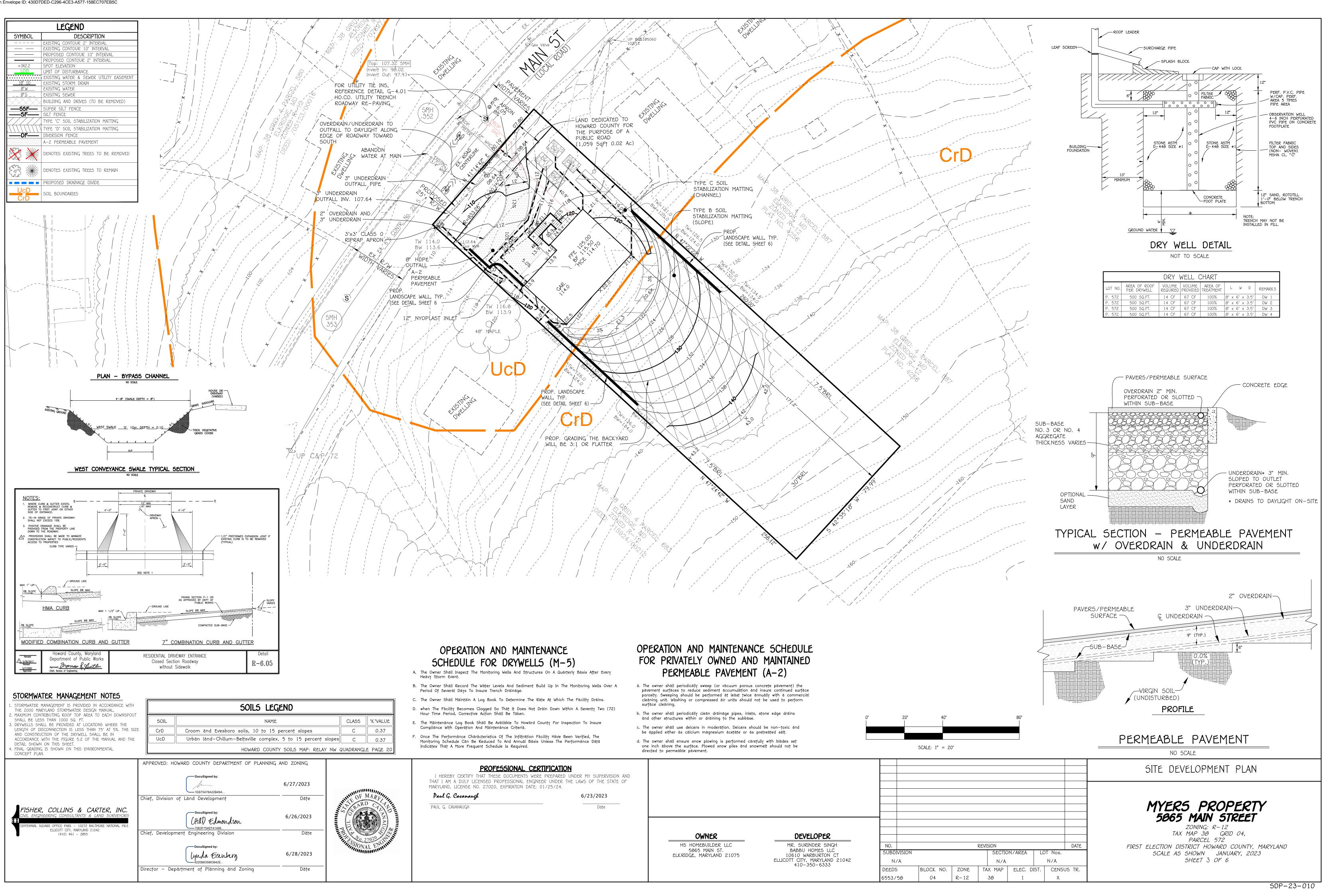


FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

	WERE PREPARED UNDER MY SUPERVISION AND NGINEER UNDER THE LAWS OF THE STATE OF				
Cavanauçh	6/23/2023				
AVANAUGH	Dațe				
		OWNER H5 HOMEBUILDER LLC 5865 MAIN 5T. ELKRIDGE, MARYLAND 21075	DEVELOPER MR. SURINDER SINGH BABBU HOMES LLC 10610 WARBURTON CT ELLICOTT CITY, MARYLAND 21042 410-350-6333	NO. SUBDIVI N/A	
				DEEDS 6553/58	BL



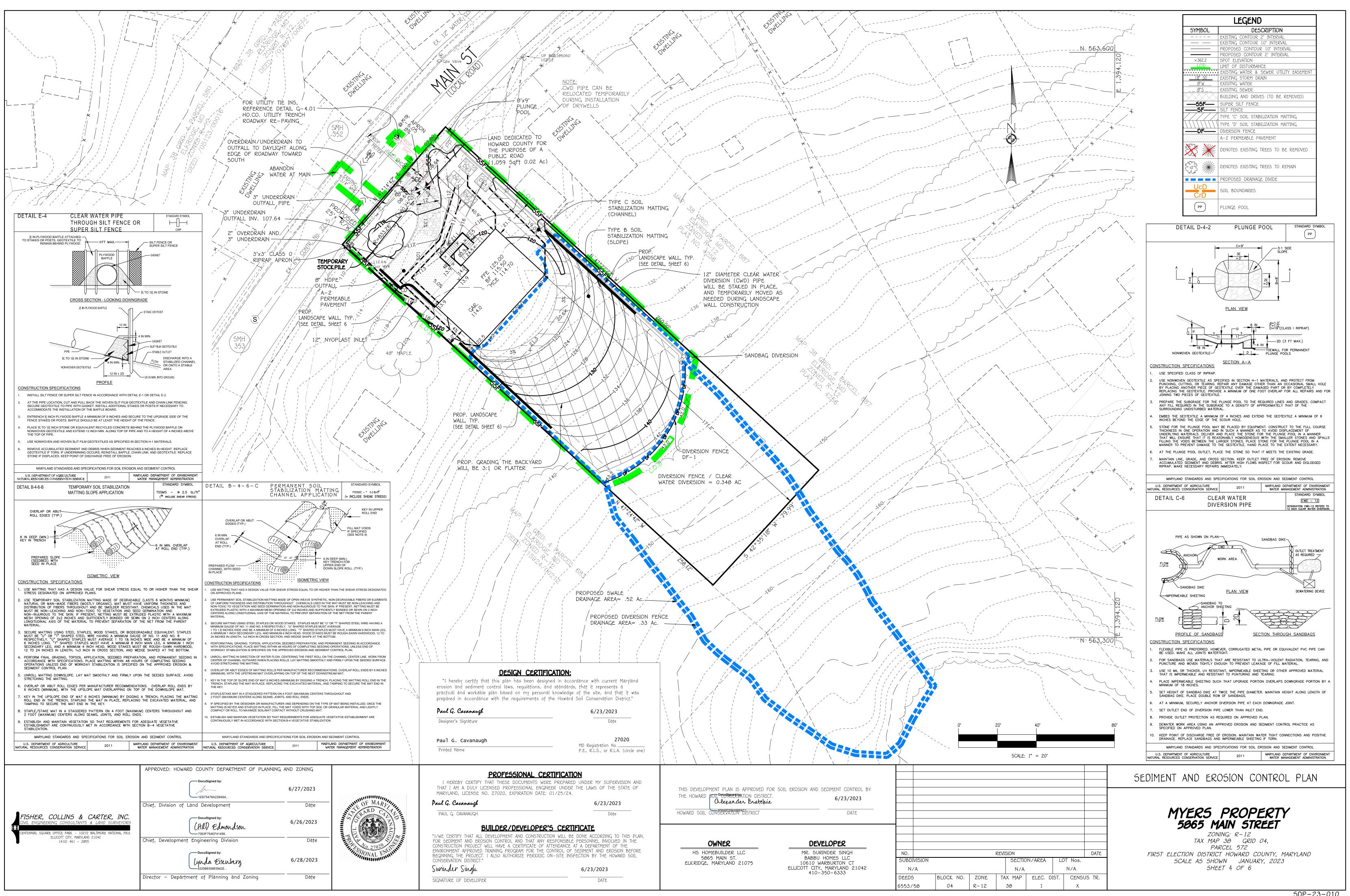




I NOI LUUIVINL OLNIII	
Y CERTIFY THAT THESE DOCUMENTS WERE PRE A DULY LICENSED PROFESSIONAL ENGINEER U LICENSE NO. 27020. EXPIRATION DATE: 01/2/	NDER THE LAWS OF THE STATE OF
Cavanaugh	6/23/2023

OWNER					
H5 HOMEBUILDER LLC					
5865 MAIN ST.					
ELKRIDGE, MARYLAND 2107					

			SCALE
	NO.		
	SUBDI		
	N7	ΥA	
	DEEDS)	BLO



5DP-23-010

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2) A. Soil Preparation 1. Temporary Stabilization a. Seedbed preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened, it must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope. b. Apply fertilizer and lime as prescribed on the plans. c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means. Permanent Stabilization a. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are: . Soil pH between 6.0 and 7.0. ii. Soluble salts less than 500 parts per million (ppm). iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lovegrass will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable. iv. Soil contains 1.5 percent minimum organic matter by weight. v. Soil contains sufficient pore space to permit adequate root penetration. b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions. c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches. d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test. e. Mix soil amendments into the top 3 to 5 inches of soil by disking or other suitable means. Rake lawn areas to smooth the surface, remove large objects like stones and branches, and ready the area for seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the surface where site conditions will not permit normal seedbed preparation. Track slopes 3:1 or flatter with tracked equipment leaving the soil in an irregular condition with ridges running parallel to the contour of the slope. Leave the top 1 to 3 inches of soil loose and friable. Seedbed loosening may be unnecessary on newly disturbed areas. **B.** Topsoiling 1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation. 2. Topsoil salvaged from an existing site may be used provided it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-NRCS. 3. Topsoiling is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients. c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible. 4. Areas having slopes steeper than 2:1 require special consideration and design. 5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria: a. Topsoil must be a loam, sandy loam, clay loam, silt loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textured subsoils and must contain less than 5 percent by volume of cinders. stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter. b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, thistle, or others as specified. c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil 6. Topsoil Application a. Erosion and sediment control practices must be maintained when applying topsoil. b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets. c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. C. Soil Amendments (Fertilizer and Lime Specifications) 1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses. 2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer. 3. Lime materials must be ground limestone (hydrated or burnt lime may be substituted except when hydroseeding) which contains at least 50 percent total oxides (calcium oxide plus magnesium oxide). Limestone must be ground to such fineness that at least 50 percent will pass through a #100 mesh sieve and 98 to 100 percent will pass through a #20 mesh sieve.

- 4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means. 5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to
- 8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

The application of seed and mulch to establish vegetative cover.

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

- Conditions Where Practice Applies To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.
- <u>Criteria</u>
- A. Seeding 1. Specifications
 - a. All seed must meet the requirement of the Maryland State Seed Law. All seed must be subject to re-testing by a recognized seed laboratory. All seed used must have been tested within the 6 months immediately preceding the date of sowing such material on any project. Refer to Table B.4 regarding the quality of seed. Seed tags must be available upon request to the inspector to verify type of seed and seeding rate.
 - b. Mulch alone may be applied between the fall and spring seeding dates only if the ground is frozen. The appropriate seeding mixture must be applied when the around thaws. c. Inoculants: The inoculant for treating legume seed in the seed mixtures must be a pure culture of nitrogen fixing bacteria prepared specifically for the species. Inoculants must not be used later than the date indicated on the container. Add fresh inoculants as directed on the package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as
 - cook as possible until used. Temperatures above 75 to 80 degrees Fahrenheit can weaken bacteria and make the inoculant less d. Sod or seed must not be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phyto-toxic materials.
- Application
- a. Dry Seeding: This includes use of conventional drop or broadcast spreaders. Incorporate seed into the subsoil at the rates prescribed on Temporary Seeding Table B.1, Permanent Seeding Table B.3, or site-specific seeding summaries.
- ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed to soil contact.
- b. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil. Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting
- ii. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. . Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
- i. If fertilizer is being applied at the time of seeding, the application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P 0 (phosphorus), 200 pounds per acre; K 0 (potassium), 200 pounds per acre. ii. Lime: Use only ground agricultural limestone (up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding.
- iii. Mix seed and fertilizer on site and seed immediately and without interruption. iv. When hydroseeding do not incorporate seed into the soil.
- B. Mulching 1. Mulch Materials (in order of preference)
 - a. Straw consisting of thoroughly threshed wheat, rye, oat, or barley and reasonably bright in color. Straw is to be free of noxious weed seeds as specified in the Maryland Seed Law and not musty, moldy, caked, decayed, or excessively dusty.
 - Note: Use only sterile straw mulch in areas where one species of grass is desired. b. Wood Cellulose Fiber Mulch (WCFM) consisting of specially prepared wood cellulose processed into uniform fibrous physical

stute.						LACH KAINFALL AND ON A DAILT DADID.		
	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNI	NG AND ZONING 6/27/2023		PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED UNDER MY SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 27020, EXPIRATION DATE: 01/25/24.		THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL E THE HOWARD SOIL CONSERVANDAN DISTRICT. 6/23/2023		
	Chief, Division of Land Development	Dațe	DROF MAR THE OF MAR TRD CT THE TRUE TO THE TO THE OF MAR THE OF THE	Paul G. Cavanaugh	6/23/2023			
FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21042 (410) 461 - 2855	DocuSigned by: CHAD Edmondson 7063F754EF41499	6/26/2023		PAUL G. CAVANAUGH Date Date <u>BUILDER/DEVELOPER'S CERTIFICATE</u> "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN,		HOWARD SOIL CONSERVATION DISTRICT DATE		
	Chief, Development Engineering Division DocuSigned by: Lynda Eisenburg 4220B635863942E	Dațe 6/28/2023		FOR SEDIMENT AND EROSION CONTROL AND THAT ANY RE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF AT ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CO BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC OF CONSERVATION DISTRICT."	ESPONSIBLE PERSONNEL INVOLVED IN THE TTENDANCE AT A DEPARTMENT OF THE ONTROL OF SEDIMENT AND EROSION BEFORE	OWNER H5 HOMEBUILDER LLC 5865 MAIN ST. ELKRIDGE, MARYLAND 21075	DEVELOPER MR. SURINDER SINGH BABBU HOMES LLC 10610 WARBURTON CT ELLICOTT CITY, MARYLAND 21042 410-350-6333	NO. SUBDIVISION N/A
	Director – Department of Planning and Zoning	Dațe	-	SIGNATURE OF DEVELOPER	DATE		410-350-6333	DEED5 BL 6553/58

water. a. Perform mulch anchoring immediately following application of mulch to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon the size of the area and erosion hazard: . A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of 2 inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. If used on sloping land, this practice should follow the contour. ii. Wood cellulose fiber may be used for anchoring straw. Apply the fiber binder at a net dry weight of 750 pounds per acre. Mix the wood cellulose fiber with water at a maximum of 50 pounds of wood cellulose fiber per 100 gallons of iii. Synthetic binders such as Acrylic DLR (Agro-Tack), DCA-70, Petroset, Terra Tax II, Terra Tack AR or other approved equal may be used. Follow application rates as specified by the manufacturer. Application of liquid binders needs to be heavier at the edges where wind catches mulch, such as in valleys and on crests of banks. Use of asphalt binders is strictly prohibited. iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3,000 feet long. TEMPORARY SEEDING NOTES (B-4-4) Definition To stabilize disturbed soils with vegetation for up to 6 months. Purpose To use fast growing vegetation that provides cover on disturbed soils.

visual inspection of the uniformly spread slurry.

a. Apply mulch to all seeded areas immediately after seeding.

growth of the grass seedlings.

90 percent minimum.

Application

3. Anchoring

Conditions Where Practice Applies Exposed soils where ground cover is needed for a period of 6 months or less. For longer duration of time, permanent stabilization practices are required.

WCFM is to be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate

- 1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate
- along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan. 2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.
- mulch alone as prescribed in Section B-4-3.A.1.b and maintain until the next seeding season. Temporary Seeding Summary

Hardiness Zone Seed Mix†ure (e (from Figure B. from Table B.1):	Ferțilizer Rațe (10-20-20)	Lime Rațe					
Species	Application Rate (Ib/ac)	Seeding Dațes	Seeding Dep†hs					
BARLEY	96	3/1 - 5/15,	1"	436 b/ac	2 †ons/ac			
OATS	72	8/1 - 10/15	1"	(10 lb/ 1000 sf)	(90 lb/ 1000 sf)			
RYE	112		1"					

PERMANENT SEEDING NOTES (B-4-5) A. Seed Mixtures

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan. b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 342 - Critical Area Planting.

c. For sites having disturbed area over 5 acres, use and show the rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary

2. Turfgrass Mixtures

receive a medium to high level of maintenance. b. Select one or more of the species or mixtures listed below based on the site conditions or purpose. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The summary is to be placed on the plan.

i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management. Irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 1.5 to 2.0 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

ii. Kentucky Bluearass/Perennial Rye: Full Sun Mixture: For use in full sun areas where rapid establishment is necessary and when turf will receive medium to intensive management. Certified Perennial Ryegrass Cultivars/Certified Kentucky Bluegrass Seeding Rate: 2 pounds mixture per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes; Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended. iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes; Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.

Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Cultivar Recommendations for Maryland"

Choose certified material. Certified material is the best guarantee of cultivar purity. The certification program of the Maryland Department of Agriculture, Turf and Seed Section, provides a reliable means of consumer protection and assures a pure genetic line

c. Ideal Times of Seeding for Turf Grass Mixtures Western MD: March 15 to June 1, August 1 to October 1 (Hardiness Zones: 5b. 6a) Central MD: March 1 to May 15. August 15 to October 15 (Hardiness Zone: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardiness Zones: 7a, 7b)

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty. e. If soil moisture is deficient, supply new seedings with adequate water for plant growth (1/2 to 1 inch

every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

)				
			Permanen†	Seeding Sum	n
		e (from Figure B. from Table B.3):	3): <u>6b</u> 8	-	
No.	Species	Application Rate (Ib/ac)	Seeding Dațes	Seeding Dep†hs	
	TALL		Ma. 1 May 1	E 1/4 1/2	Ē

i. WCFM, including dye, must contain no germination or growth inhibiting factors. iii. WCFM materials are to be manufactured and processed in such a manner that the wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material must form a blotter-like ground cover, on application, having moisture absorption and percolation properties and must cover and hold grass seed in contact with the soil without inhibiting the iv. WCFM material must not contain elements or compounds at concentration levels that will by phyto-toxic. v. WCFM must conform to the following physical requirements: fiber length of approximately 10 millimeters, diameter

approximately 1 millimeter, pH range of 4.0 to 8.5, ash content of 1.6 percent maximum and water holding capacity of b. When straw mulch is used, spread it over all seeded areas at the rate of 2 tons per acre to a uniform loose depth of

1 to 2 inches. Apply mulch to achieve a uniform distribution and depth so that the soil surface is not exposed. When using a mulch anchoring tool, increase the application rate to 2.5 tons per acre. c. Wood cellulose fiber used as mulch must be applied to a net dry weight of 1500 pounds per acre. Mix the wood cellulose fiber with water to attain a mixture with a maximum of 50 pounds of wood cellulose fiber per 100 gallons of

Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw

a. Areas where turfgrass may be desired include lawns, parks, playgrounds, and commercial sites which will

ndry Fertilizer Rate (10-20-20) Lime Rate

Ν	P205	K ₂ 0	
45 bs. per acre (1.0 b/ 1000 sf)	90 b/ac (2 b/ 1000 sf)	90 b/ac (2 b/ 1000 sf)	2 tons/ac (90 lb/ 1000 sf)

B. Sod: To provide quick cover on disturbed areas (2:1 grade or flatter).

1. General Specifications a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and

- b. Sod must be machine cut at a uniform soil thickness fo ¾ inch, plus or minus ¼ inch, at the time of cutting. Measurement for thickness must exclude top growth and thatch. Broken pads and torn or uneven ends will not be
- acceptable. c. Standard size sections of sod must be strong enough to support their own weight and retain their size and shape when
- suspended vertically with a firm grasp on the upper 10 percent of the section.
- d. Sod must not be harvested or transplanted when moisture content (excessively dry of wet) may adversely affect its survival. e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period must be
- approved by an agronomist or soil scientist prior to its installation. Sod Installation
- a. During periods of excessively high temperature or in areas having dry subsoil, lightly irrigate the subsoil immediately prior to laying the sod.
- b. Lay the first row of sod in a straight line with subsequent rows placed parallel to it and tightly wedged against each other. Stagger lateral joints to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots. c. Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. Roll and tamp, peg or
- otherwise secure the sod to prevent slippage on slopes. Ensure solid contact exists between sod roots and the underlying soil surface. d. Water the sod immediately following rolling and tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Complete the operations of laying, tamping, and irrigating for any piece of sod within eight hours.
- 3. Sod Maintenance a. In the absence of adequate rainfall, water daily during the first week or as often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the heat of the day to prevent wilting.
- b. After the first week, sod watering is required as necessary to maintain adequate moisture content c. Do not mow until the sod is firmly rooted. No more than $\frac{1}{3}$ of the grass leaf must be removed by the initial cutting or subsequent cuttings. Maintain a grass height of at least 3 inches unless otherwise specified.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

A mound or pile of soil protected by appropriately designed erosion and sediment control measures. Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

<u>Criteria</u> 1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan. 2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading. 3 Runoff from the stockpile area must drain to a suitable sediment control practice

4. Access the stockpile area from the upgrade side. 5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.

6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.

7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization. 8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

<u>Maintenance</u> The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1

slopes, benching must be provided in accordance with Section B-3 Land Grading. HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in the field. A minimum of 48 hour notice to CID must be given at the following stages: Prior to the start of earth disturbance,

b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading,

Prior to the start of another phase of construction or opening of another grading unit, d. Prior to the removal or modification of sediment control practice

Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan. . All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.

3. Following initial soil disturbance or re-disturbance, permanent or temporary stabilization is required within three (3) calendar days as to the surface of all perimeter controls. 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 areas on the project site except for those areas under active grading.

4. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with >15 of cut and/or fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6). All sediment control structures are to remain in place, and are to be maintained in operative condition until permission for their removal has been obtained from the CID.

- Site Analysis: Total Area of Site: _____ 0.46 Acres 0.36 Acres Area Disturbed: ____ <u>0.08</u> Acres
- ____ Acres Total Cut: Cu. Yds.
- Offsite waste/borrow area location: LOCATION WITH ACTIVE GRADING PERMIT OR LANDFILL.
- Super Silt Fence: 398 L Quantities provided are for the reviewing agency only.
- Contractor is responsible for performing construction take-offs. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- 8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly; and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include: Inspection date Inspection type (routine, pre-storm event, during rain event)
- Name and title of inspector weather information (current conditions as well as time and amount of last recorded precipitation)
- Brief description of projects status (e.g., percent complete) and/or current activities Evidence of sediment discharges Identification of plan deficiencies
- identification of sediment controls that require maintenance Identification of missing or improperly installed sediment controls
- Compliance status regarding the sequence of construction and stabilization requirements Photographs
- Monitoring/sampling Maintenance and/or corrective action performed
- Other inspection items as required by the General Permit for Stormwater Associated with Construction Activities (NPDES, MDE). 9. Trenches for the construction of utilities is limited to three pipe lengths or that which can and shall be back-filled and stabilized by the end of each workday, whichever is
- 10. Any major changes or revisions to the plan or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may allowed by the CID per the list of HSCD-approved field changes.
- 11. Disturbance shall not occur outside the LO.D. A project is to be sequenced so that aradina activities begin on one aradina unit (maximum acreace of 20 ac. per oradina unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.

(2 DAY5)

(7 DAYS)

(8 MONTHS)

(3 DAY5)

(3 DAY5)

- 12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved washout structure Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.
- 14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbricated at 25 minimum intervals, with lower ends curled uphill by 2 in elevation.
- 15. Stream channels must not be disturbed during the following restricted time periods (inclusive): Use I and IP March 1 - June 15

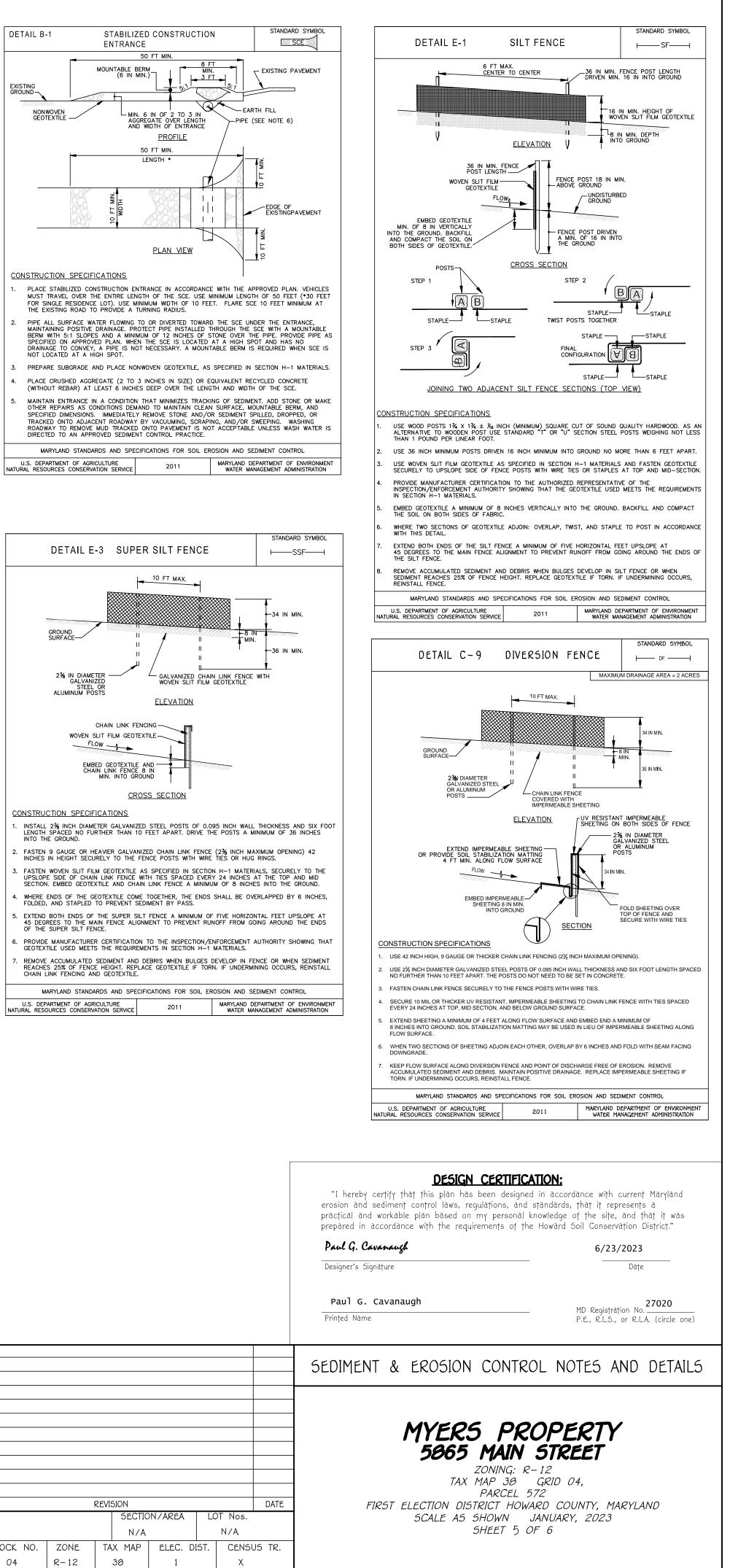
NOTE

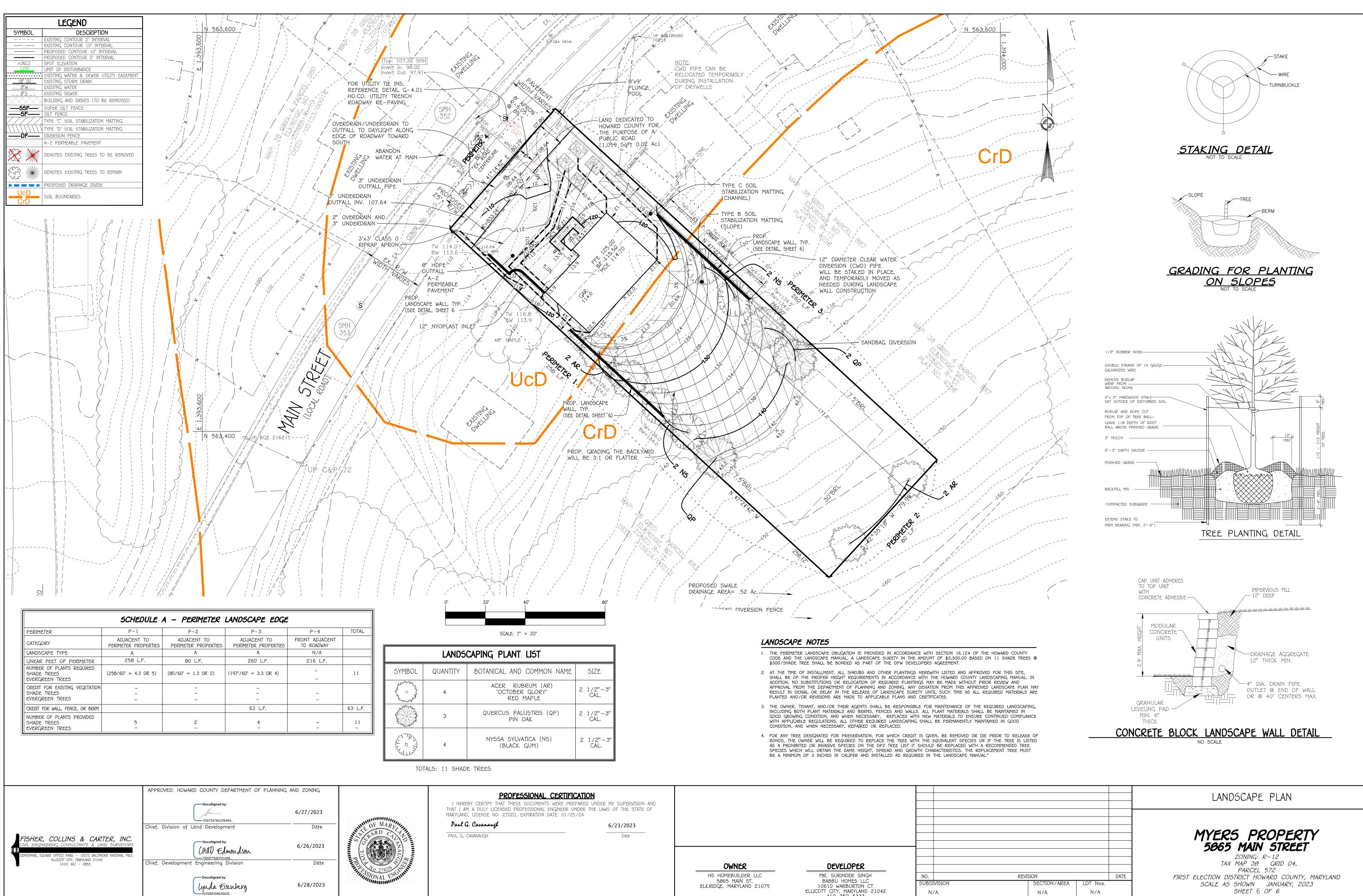
- Use III and IIIP October 1 April 30 Use IV March 1 - May 31 16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION
- AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. (14 DAY5) 2. NOTIFY "MISS UTILITY" AT LEAST 40 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. (7 DAY5)
- NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION / INSPECTION AT 410-313-1330 AT LEAST 24 HOURS BEFORE STARTING WORK. 3. CLEAR AND GRUB AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
- 4. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE, DIVERSION FENCE & CLEAN WATER DIVERSION.
- 5. WITH PERMISSION FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, BEGIN ROUGH GRADE DRIVEWAY, ROUGH GRADE AROUND HOUSE SITE AND INSTALL TEMPORARY SEEDING, IF REQUIRED. BEGIN SLOPE STABILIZATION, AND CONSTRUCTION OF BUILDING, DRIVEWAY, UTILITIES AND STORM WATER FEATURES.
- NOTE THAT ALL CONTRIBUTING DRAINAGE AREAS SHALL BE STABILIZED PRIOR TO INSTALLATION OF DRYWELLS AND PERMEABLE PAVEMENT.
- 5a. CONSTRUCTION ASSOCIATED WITH UTILITY SERVICES TIE-IN SHALL BE PERFORMED UNDER SAME DAY STABILIZATION WITH IN MAIN STREET PAVING. 6. FINE GRADE SITE AND INSTALL PERMANENT SEEDING.
- 8. ALL FINAL GRADES AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS. WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES AND DIVERSION FENCING MAY BE REMOVED.

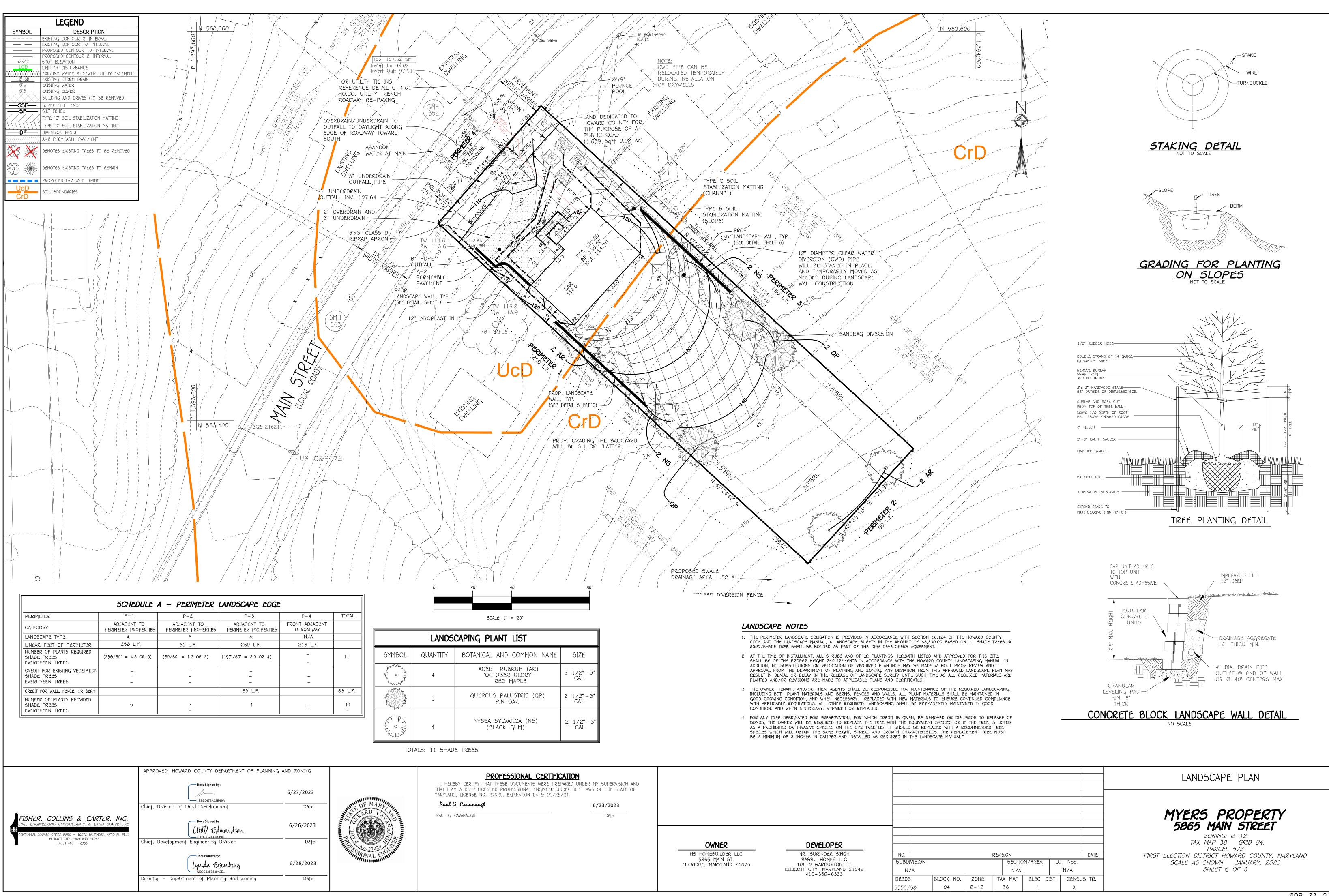
1) THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON AENT CONTROLS AFTER EACH RAINEALL AND ON A DAILY BASIS





SCHEDULE A - PERIMETER LANDSCAPE EDGE					
PERIMETER	P-1	P-2	P-3	P-4	TOTAL
CATEGORY	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	ADJACENT TO PERIMETER PROPERTIES	FRONT ADJACENT TO ROADWAY	
LANDSCAPE TYPE	A	A	A	N/A	
LINEAR FEET OF PERIMETER	258 L.F.	80 L.F.	260 L.F.	216 L.F.	
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES	(258/60' = 4.3 OR 5)	(80/60' = 1.3 OR 2)	(197'/60' = 3.3 OR 4)		11
CREDIT FOR EXISTING VEGETATION SHADE TREES EVERGREEN TREES	- - -				
CREDIT FOR WALL, FENCE, OR BERM			63 L.F.		63 L.F.
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES	5	2	4		11

LANDSC				
SYMBOL	QUANTITY			
and a start of the	4			
	3			
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	LANDSCAPE PLAN
REVISION	MYERS PROPERTY 5865 MAIN STREET ZONING: R-12 TAX MAP 38 GRID 04, PARCEL 572 DATE
SECTION/AREA LOT Nos. N/A N/A	SCALE AS SHOWN JANUARY, 2023 SHEET 6 OF 6
NO. ZONE TAX MAP ELEC. DIST. CENSU	US TR.