

Preliminary Consultation
MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION
STAFF REPORT

Address:	Multiple Addresses, Clarksburg	Meeting Date:	2/12/2020
Resource:	Multiple Resources Clarksburg Historic District	Report Date:	2/5/2020
Applicant:	Montgomery County/MDOT SHA	Public Notice:	1/29/2020
		Tax Credit:	N/A
Review:	Preliminary Consultation	Staff:	Michael Kyne
Case Number:	N/A		
PROPOSAL:	Shared-use path		

STAFF RECOMMENDATION:

Staff recommends that the applicants make any revisions based upon the HPC's comments and return with a HAWP application.

ARCHITECTURAL DESCRIPTION:

SIGNIFICANCE: Multiple Resources within the Clarksburg Historic District
STYLE: Various
DATE: Platted Early 1790s



Fig. 1: Clarksburg Historic District.

HISTORIC CONTEXT:

The following was excerpted from *Places From the Past: The Tradition of Gardez Bien in Montgomery County, Maryland*.

13/10 CLARKSBURG HISTORIC DISTRICT (Platted Early 1790s)

Early in the county's history, Clarksburg was a substantial center of commerce and transportation. John Clark surveyed the land and subdivided lots along Frederick Road in the early 1790s, yet the town's origins extended back to the mid-1700s. Michael Dowden built a hotel and tavern about 1754. A popular stop along the well-traveled Great Road between Frederick and Georgetown, Dowden's Ordinary is said to have provided lodging and entertainment for such well-known travelers as General E. Braddock, George Washington, and Andrew Jackson. According to tradition, John Clark's father William, from Lancaster County, Pennsylvania, had chosen this location, at the intersection of two Indian trails, as early as 1735 as a site for trading with Native Americans. His trading post may have influenced Dowden's choice for locating his ordinary.

John Clark built a general store and became the community's first postmaster. The post office, established 1800, was one of the first in the county. By 1850, the town was the third most populous in the county, and the residents numbered 250 by 1879.

One of the earliest structures in the community is found at the Clark-Waters House, 23346 Frederick Road. According to tradition, John Clark constructed the rear section in 1797. The building was enlarged and updated in the 1840s with the Italianate-style front section, under the ownership of Clark's daughter and son-in-law Mary and William Willson. One of the few remaining log buildings in the community is found at 23415 Frederick Road. Thomas Kirk probably built the John Leaman House (23415), now covered with clapboard siding, in 1801. John Leaman, a carpenter, purchased the house in 1871 and built the substantial rear addition around 1890.

John Clark, a Methodist, was a leader in organizing the Clarksburg Methodist Episcopal Church in 1788. The church has one of the oldest continuous Methodist congregations in the County. A log chapel was built on this site in 1794, a brick structure in 1853, and the present Gothic Revival-style church in 1909. As a major stagecoach stop between Frederick and Georgetown, Clarksburg supported several inns and taverns. By the mid-1800s, the town also included general stores, a tannery and blacksmiths, and wheelwrights. William Willson probably built Willson's Store, 23341 Frederick Road, around 1842. In 1879, Clarksburg had 250 residents, making it the third most populous town in the County. The Queen Anne-style house at 23310 Frederick Road, known as Hammer Hill, as built c.1891-1900 by Clarksburg physician Dr. James Deetz and his wife Sarah. The name, Hammer Hill, comes from the tract name given this land in 1752. The William Hurley Shoe Shop, 23421 Frederick Road, probably built around 1842, is typical of early rural commercial structures in its simplicity and small scale. In the early 20th-century, it housed Helen Hurley's millinery shop. The house, located behind the shop, originally consisted of the rear portion that was built by Arnold Warfield about 1800. The building may contain an early log section. Hurley family owners of the house and shoe shop included shoemaker William Hurley and Clarksburg Brass Band organizer J. Mortimer Hurley.

Clarksburg has historically been a bi-racial town. While many African Americans settled, after the Civil War, in communities separate from white settlements, freed slaves in Clarksburg built houses in and around the town. In 1885, John Henry Wims built his frame house in Clarksburg's center, at 23311 Frederick Road. The location of his dwelling near the post office was a convenience for Wims, one of the few black mail carriers working in the county.

One of the County's last and most elaborate remaining examples of a two-room schoolhouse is the Clarksburg School, 13530 Redgrave Place, built in 1909. One of the County's last and most elaborate remaining examples of the two-room schoolhouse, the Clarksburg School was in continuous use from 1909 to 1972. The cruciform-shaped building has a Colonial Revival-influenced design with pedimented and pilastered doorframe, oversize cornice returns, and gable overhang. Near the school are the sites of the earlier Clarksburg Academy (1833) and a one-room school.

Growth in Clarksburg declined in the late 19th century, when the B & O Railroad bypassed the town for nearby Boyds. The advent of the automobile and improved roads brought something of an economic revival beginning in the 1920s. New boarding houses opened in town to accommodate the new auto tourism.

PROPOSAL:

The applicants propose to construct an 8' wide shared-use path along the east side of MD 355 (Frederick Road) within the Clarksburg Historic District. The proposal also includes intersection improvements, tree removal/planting, and streetlamp installation.

APPLICABLE GUIDELINES:

When reviewing alterations and new construction within the Clarksburg Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include *Montgomery County Code Chapter 24A (Chapter 24A)*, the *Vision of Clarksburg: A Long-Range Preservation Plan (Vision)*, and the *Secretary of the Interior's Standards for Rehabilitation (Standards)*. The pertinent information in these documents is outlined below.

Montgomery County Code; Chapter 24A-8

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:
 - (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
 - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
 - (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
 - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
 - (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or

- (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.
- (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.
- (d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

Secretary of Interior's Standards for Rehabilitation

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
- 8. Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.
- 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

STAFF DISCUSSION:

The applicants contacted the Functional Planning and Policy (FPP) division in 2018 for a Mandatory Referral. In consultation with historic preservation staff, the applicants were instructed to conduct further archaeological investigations, consider additional permeable paving, and to revise their drainage plan to avoid known African American archaeological sites. The applicants have made the requested revisions and are seeking guidance from the Historic Preservation Commission (HPC) regarding the appropriateness of the proposed project.

Proposal

The applicants propose the following work items within the Clarksburg Historic District:

- Shared-Use Path.
 - Construction of an 8’ wide shared-use path along the east side of MD 355 (Frederick Road).
 - The proposed shared-use path will extend from the intersection of MD 355 and Stringtown Road (the approximate southern boundary of the historic district) to the intersection of MD 355 and Snowden Farm Parkway.
 - The path will only be partially within the historic district, as the northern boundary of the historic district terminates over 1,000’ south of Snowden Farm Parkway (the northern boundary of the historic district is the northern property line of 23515 Frederick Road).

- The shared-use path will be constructed from a mix of asphalt and permeable pavement, with concrete and brick driveways/aprons.
- Due to existing retaining walls and grading, several new and/or replacement retaining walls are proposed.

The proposal also includes:

- Intersection improvements.
 - New turn lanes.
 - Bike lanes.
 - Shoulder widening.
 - Sidewalks connections.
- Tree removal.
 - A total of 61 trees will be removed (including trees outside the boundaries of the historic district).
 - 110 trees will be planted to replace the trees being removed.
- Streetlamps
 - 29 new LED streetlamps are proposed.
 - The proposed streetlamps will have fiberglass poles and Colonial-style luminaires.
 - The proposed streetlamps will be approximately 19' tall (16' +/- pole, with 34 11/16" luminaire).

Staff is supportive of the applicant's overall proposal. The *Clarksburg Master Plan and Hyattstown Special Study Area (1994)*, which amended the *Clarksburg and Vicinity Master Plan (1968)*, called for an off-street bike path along the existing road with vegetation against the edges in this location. In addition, the *10 Mile Creek Area Limited Amendment (2014)*, which amended the *Clarksburg Master Plan and Hyattstown Special Study Area (1994)* for the Ten Mile Creek Watershed, recommended a shared-use path in this location.

Most of the proposed work will occur within the public right-of-way, where previous alterations (i.e., road and sidewalk construction, road widening, regrading, landscaping) have occurred. In accordance with *Standards #2 and #9*, the addition of a shared-use path will not remove or alter character-defining features of the historic district. The introduction and/or replacement of modern transportation features and appurtenances within the public right-of-way will not detract from the district's ability to convey its historical significance. Staff finds that increasing the connectedness of the historic district via a shared-use path will create a more cohesive streetscape, with buildings that clearly relate and interact with one another.

Archaeological Investigations within the Project Area

Consistent with *Standard #8*, the proposal will not affect significant archaeological resources. The applicant has conducted archaeological investigations in compliance with Section 106 of the National Historic Preservation Act in consultation with the Maryland Historical Trust (MHT) and with the Montgomery County Historic Preservation Compliance Review Archaeologist. The methods used in investigations were consistent with MHT guidelines and identified five sites within the project area: 18MO742, 18MO743, 18MO744, 18MO745, and 18MO746. Of these, the consultant believed that three (18MO742, 18MO745, and 18MO746) warranted additional testing to determine their eligibility for the National Register of Historic Places (NRHP). Sites 18MO743 (a mid-19th through mid-20th century farmstead) and 744 (a small concentration of late 18th- to 20th-century artifacts associated with the 19th-century residence of John Hurley) were found to have too little material and were too disturbed to retain any archaeological value.

NRHP evaluation testing at 18MO742 (the Neighborhood Site) looked for remains associated with the site of the late 19th-century Clarksburg Methodist Episcopal Church South and parsonage. This site is located on Montgomery County Parks land. The results showed that the site was heavily disturbed, but the consultant did find a small area underneath layers associated with demolition of the church and parsonage that contained early 19th-century artifacts. Based on this finding, the consultant recommended the site eligible for the NRHP. However, the Maryland Historical Trust (MHT) did not concur, finding instead that the site yielded too little material and had too little physical integrity to contribute important information to the history of Clarksburg. Neither the Montgomery County Historic Preservation Compliance Review Archaeologist, nor Montgomery County Parks archaeologists dispute MHT's findings.

NRHP evaluation testing at Site 18MO745 (the Sibley Site) investigated possible remains associated with a 19th-century domestic occupation. Testing showed that the site had been heavily disturbed; however, the archaeologists found an infilled cellar with a possible root cellar at its base. The cellar was part of a house built before 1850 and demolished in the 20th century. The 20th-century fill contained some colonial-era artifacts, and the presence of a possible root cellar at the base of the larger cellar suggested that there might be other early features or artifact deposits buried underneath fill associated with the demolition of the house. Based on that the consultant recommended the site to be eligible for the NRHP; however, the MHT did not agree, arguing that the site is too disturbed and has too little material of interest to be eligible. In any case, the deposits the consultant felt were important are outside the area that would be impacted by construction of the shared use path.

NRHP evaluation testing of Site 18MO746 (the Wims Site) explored remains of a middle 19th-century house occupied by a succession of families including that of John Wims, an African American man who purchased the home in 1892. Testing showed that the site had been too heavily disturbed by demolition in the 20th century to retain any information potential, and the MHT concurred with the consultant's recommendation that the site is not eligible for the NRHP. However, MCDOT has been responsive to staff's concerns that any stormwater management facilities or other construction should avoid this site entirely.

Issues for Consideration

Staff asks that the applicants clarify the materials of the proposed retaining walls. Staff finds that retaining walls with stamped concrete or cultured stone veneers are not successful in most historic districts. Traditional materials – stone, parged concrete block, poured concrete – would be more appropriate for retaining walls within the Clarksburg Historic District. Staff also requests additional information regarding the proposed fiberglass streetlamps. Staff is mainly concerned about the finish of the proposed streetlamps and how the materials will weather/age.

Another area of concern is the removal of mature trees within the historic district. The historic district is characterized by moderate forestation at the front, rear, and sides of the properties. Staff asks for the Commission's guidance regarding tree removal within the historic district and its potential to detract from character-defining features.

Montgomery County Parks staff note that any staging and/or work on Montgomery Parks' land requires a Park Construction Permit and advance discussion with Parks to understand permit conditions. Historic preservation staff will solicit further input from Parks staff as part of the HAWP applications. This case will also be heard by the Planning Commission at a future date as a Mandatory Referral.

Staff seeks any additional guidance from the Commission regarding the appropriateness of the applicants' proposal. Specific feedback is sought regarding the proposed retaining walls and streetlamps.

STAFF RECOMMENDATION:

Staff recommends that the applicants make any revisions based upon the HPC's comments and return with a HAWP application.



HISTORIC PRESERVATION COMMISSION
301/563-3400

APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Email: Yasamin.Esmaili@montgomerycountymd.gov Contact Person: Ms. Yasamin Esmaili
Daytime Phone No.: 240-777-7226
Tax Account No.: _____
Name of Property Owner: Montgomery County / MDOT SHA Daytime Phone No.: 240-777-7226
Address: 100 Edison Park Drive, 4th Floor, Gaithersburg, MD 20878
Street Number City State Zip Code
Contractor: _____ Phone No.: _____
Contractor Registration No.: _____
Agent for Owner: _____ Daytime Phone No.: _____

LOCATION OF BUILDING/PREMISE

House Number: _____ Street: _____
Town/City: _____ Nearest Cross Street: _____
Lot: _____ Block: _____ Subdivision: _____
Liber: _____ Folio: _____ Parcel: _____

PART ONE: TYPE OF PERMIT ACTION AND USE

1A. CHECK ALL APPLICABLE:

☒ Construct ☐ Extend ☐ Alter/Renovate
☐ Move ☒ Install ☐ Wreck/Raze
☐ Revision ☐ Repair ☐ Revocable

CHECK ALL APPLICABLE:

☐ A/C ☐ Slab ☐ Room Addition ☐ Porch ☐ Deck ☐ Shed
☐ Solar ☐ Fireplace ☐ Woodburning Stove ☐ Single Family
☐ Fence/Wall (complete Section 4) ☒ Other: Sidewalk, Shared Use
Path, Stream
Restoration

1B. Construction cost estimate: \$ _____

1C. If this is a revision of a previously approved active permit, see Permit # _____

PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS

2A. Type of sewage disposal: 01 ☐ WSSC 02 ☐ Septic 03 ☐ Other: _____
2B. Type of water supply: 01 ☐ WSSC 02 ☐ Well 03 ☐ Other: _____

PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL

3A. Height _____ feet _____ inches
3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:
☐ On party line/property line ☐ Entirely on land of owner ☐ On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

Signature of owner or authorized agent

Date

Approved: _____ For Chairperson, Historic Preservation Commission

Disapproved: _____ Signature: _____ Date: _____

Application/Permit No.: _____ Date Filed: _____ Date Issued: _____

**THE FOLLOWING ITEMS MUST BE COMPLETED AND THE
REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.**

1. WRITTEN DESCRIPTION OF PROJECT

- a. Description of existing structure(s) and environmental setting, including their historical features and significance:

There are 24 properties listed on the MD Inventory of Historic Properties within a one-mile radius of the Study Area, which includes the Clarksburg Historic District (MO:13-10). The historic district primarily contains a mix of late 18th through 20th century residential and commercial structures, but the majority of historic structures date back to the 19th century of this transportation and trade center. A Historic Built Environment Investigation was conducted and zero properties listed on the MD Inventory of Historic Properties within the proposed project study area would be affected.

- b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:

The proposed improvements include an 8 ft wide shared-use path along the east side of MD 355 from Stringtown Road to Snowden Farm Parkway in Clarksburg, MD. Intersection improvements at Frederick Rd and Clarksburg Rd include new turn lanes, bike lanes, shoulder widening, sidewalk connections and a side path along Frederick Rd. There will be 350 ft of stream restoration along Clarksburg Road. This project is partially in the Clarksburg Historic District. The work is proposed within state and county right-of-way, but may require two small acquisitions of undeveloped land. Most of the area is heavily disturbed due to previous road and intersection construction, widening, grading and landscaping. It is anticipated to remove 61 trees and replace 110 trees, as shown on the attached Tree Survey Plans. A Historic Built Environment Investigation was conducted and zero properties listed on the MD Inventory of Historic Properties within the proposed project study area would be affected.

2. SITE PLAN

Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:

- a. the scale, north arrow, and date;
- b. dimensions of all existing and proposed structures; and
- c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

3. PLANS AND ELEVATIONS

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. *Schematic construction plans*, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

4. MATERIALS SPECIFICATIONS

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

5. PHOTOGRAPHS

- a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

6. TREE SURVEY

If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS

For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question.

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFYING
[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address Ms. Yasamin Esmaili Montgomery County Department of Transportation 100 Edison Park Drive, 4th Floor Gaithersburg, MD 20878	Owner's Agent's mailing address
Adjacent and confronting Property Owners mailing addresses	
Please see attached list.	

Existing Property Condition Photographs (duplicate as needed)

Please see attached photos.

Detail: _____

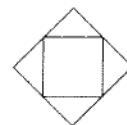
Detail: _____

Applicant: _____

Page: __

Site Plan

Please see attached Site and Roadway Plans.



Shade portion to indicate North

Applicant:_____

Page:___

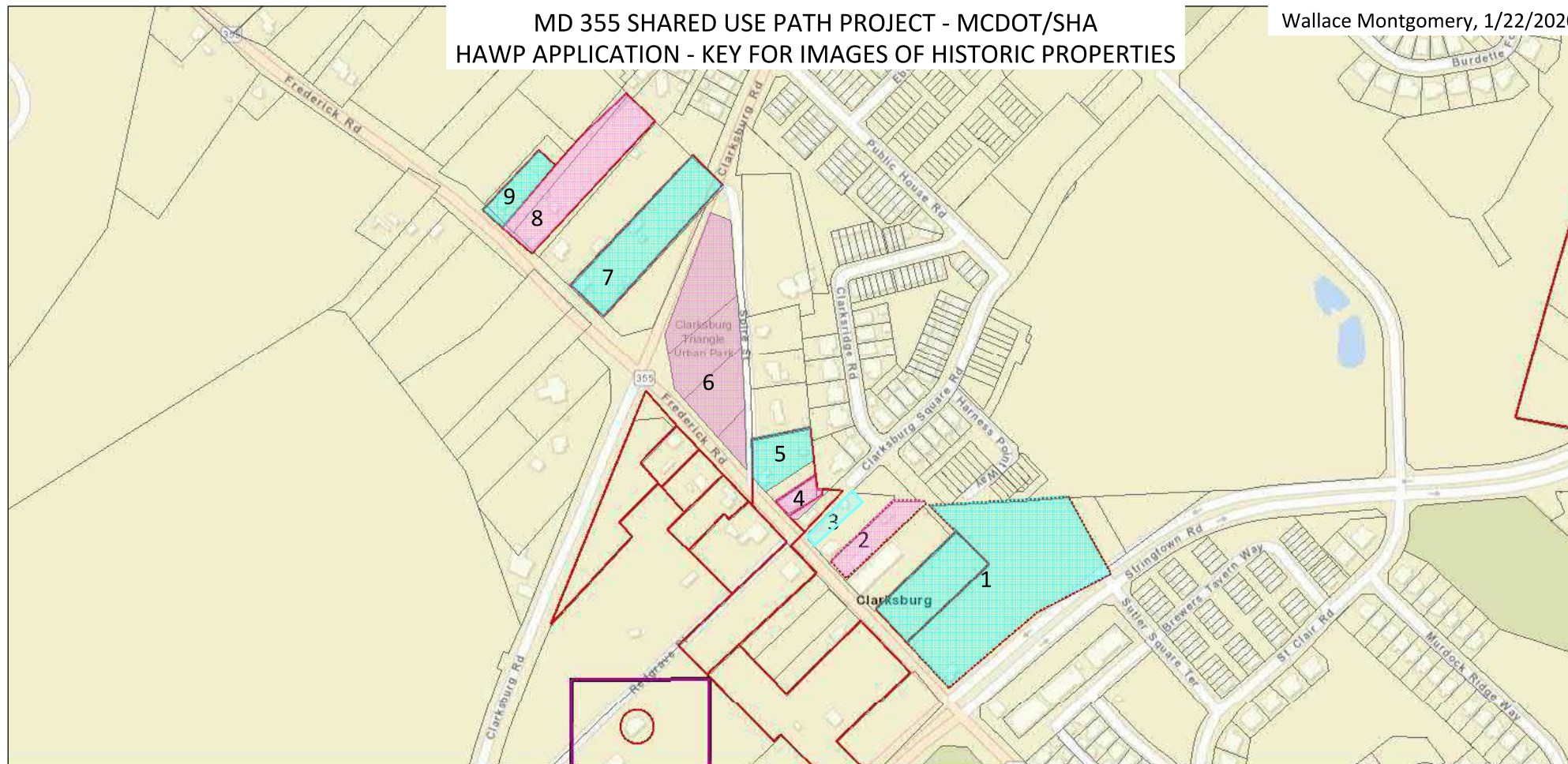
PROJECT: MD 355 FREDERICK ROAD PROJECT No.: 214013.0010 501744 COUNTY: MONTGOMERY							
No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	P983	EW32	Montgomery County, MD	L. 38068 F. 281	101 Monroe St., Rockville, MD. 20850	21411 Spire Rd., Clarksburg, MD. 20871	
	P233	EW31	Montgomery County, MD	L. 33114 F. 763	101 Monroe St., Rockville, MD. 20850	23311 Frederick Rd., Clarksburg, MD. 20871	
	P044	EW31	Montgomery County, MD	L. 35097 F. 511	101 Monroe St., Rockville, MD. 20850	23365 Frederick Rd., Clarksburg, MD. 20871	
1	P340	EW31	Montgomery County, MD	No Deed Ref	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P050	EW31	Montgomery County, MD	L. 39699 F. 391	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P004	EW31	Montgomery County, MD	L. 39699 F. 414	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P888	EW22	Montgomery County, MD	L. 52970 F. 444	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P098	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
	P065	EW31	Montgomery County, MD	L. 34912 F. 616	101 Monroe St., Rockville, MD. 20850	Frederick Rd., Clarksburg, MD. 20871	No Address
3	P257	EW31	Watkins, William K. & B. L.	L. 3919 F. 862	11610 Piedmont Rd., Clarksburg, MD. 20871	23314 Frederick Rd., Clarksburg, MD. 20871	
33	P757	EW32	Vu, Chung D. & Q. T.	L. 10438 F. 755	11700 Weller Hill Rd., Monrovia, MD. 21770	23529 Frederick Rd., Clarksburg, MD. 20871	
35	P730	EW22	Baron Investment Services, LLC	L. 49239 F. 422	12827 Gorman Circle, Boyds, MD. 20841	23543 Frederick Rd., Clarksburg, MD. 20871	
10	P155	EW31	Mullen, Laura L., Etal.	L. 27578 F. 715	1300 Coral Sea Dr., Rockville, MD. 20851	Frederick Rd., Clarksburg, MD. 20871	No Address
5	P228	EW31	Gardner House, LLC	L. 45846 F. 425	1402 Meadowsweet Dr., Sandy Spring, MD. 20860	23330 Frederick Rd., Clarksburg, MD. 20871	
14	P921	EW32	Musser, Lawrence H., Jr., Etal.	L. 15634 F. 644	17120 Longdraft Rd., Gaithersburg, MD. 20878	23506 Frederick Rd., Clarksburg, MD. 20871	
26	P009	EW31	Woojung, Inc	L. 33170 F. 277	18020 Coachmans Rd., Germantown, MD. 20874	Frederick Rd., Clarksburg, MD. 20871	No Address
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Bennett Chase Dr., Gaithersburg, MD. 20879	No Address
36	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Frederick Rd., Clarksburg, MD. 20879	No Address

No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	0000	EW22	Woodcrest at Little Bennett HOA, Inc	L. 34791 F. 167	18401 Woodfield Rd., Suite H, Gaithersburg, MD. 20879	Snowden Farm Pkwy., Clarksburg, MD. 20879	No Address
20	N200	EW31	Buffington Enterprises II, LLC	No Deed Ref	21020 Layton Ridge Rd., Laytonsville, MD. 20882	23315 Frederick Rd., Clarksburg, MD. 20871	
21	P177	EW31	Modjarrad, Amir H., Etal.	L. 24057 F. 61	22222 Creekview Dr., Gaithersburg, MD. 20882	23321 Frederick Rd., Clarksburg, MD. 20871	
7	P153	EW31	Deren, LLC	L. 53331 F. 162	22505 Gateway Center Dr., Clarksburg, MD. 20871	23346 Frederick Rd., Clarksburg, MD. 20871	
25	P120	EW31	Espinoza, Albert M. & Dawn M.	L. 19746 F. 291	22800 W Harris Rd., Dickerson, MD. 20842	23345 Frederick Rd., Clarksburg, MD. 20871	
11	P115	EW31	Cooley, Bonnie W. & J. F.	L. 13354 F. 247	23320 Clarksburg Rd., Clarksburg, MD. 20871	23320 Clarksburg Rd., Clarksburg, MD. 20871	
6	P206	EW31	Randall, Albert B. & L. M.	L. 7817 F. 230	23340 Frederick Rd., Clarksburg, MD. 20871	23340 Frederick Rd., Clarksburg, MD. 20871	
24	P121	EW31	Espinoza, Al	L. 51974 F. 29	23343 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
8	P152	EW31	Zepeda-Barrera, Clarissa & Amadeo Zepeda	L. 48842 F. 190	23356 Frederick Rd., Clarksburg, MD. 20871	23356 Frederick Rd., Clarksburg, MD. 20871	
9	P117	EW31	Amaya, Julio C. & R. L.	L. 16278 F. 8	23360 Frederick Rd., Clarksburg, MD. 20871	23360 Frederick Rd., Clarksburg, MD. 20871	
23	P150	EW31	Njiaju, Joseph	L. 46628 F. 392	23450 Tailor Shop Pl., Clarksburg, MD. 20871	23341 Frederick Rd., Clarksburg, MD. 20871	
13	P975	EW32	L H Musser & Sons, Inc.	L. 21016 F. 666	23506 Frederick Rd., Clarksburg, MD. 20871	23500 Frederick Rd., Clarksburg, MD. 20871	
32	P811	EW32	Le, Duy Cong	L. 35777 F. 102	23521 Frederick Rd., Clarksburg, MD. 20871	23521 Frederick Rd., Clarksburg, MD. 20871	
	P759	EW32	Le, Duy Cong	No Deed Ref	23521 Frederick Rd., Clarksburg, MD. 20871	Frederick Rd., Clarksburg, MD. 20871	No Address
16	P840	EW22	Jackson, Troy & Debra	L. 51650 F. 147	23530 Frederick Rd., Clarksburg, MD. 20871	23530 Frederick Rd., Clarksburg, MD. 20871	
34	P785	EW22	Puckett, John C. & M. E.	L. 10958 F. 160	23535 Frederick Rd., Clarksburg, MD. 20871	23535 Frederick Rd., Clarksburg, MD. 20871	
17	P788	EW22	Culbertson, Colleen L.	L. 36261 F. 1	23540 Frederick Rd., Clarksburg, MD. 20871	23540 Frederick Rd., Clarksburg, MD. 20871	
27	P980	EW32	Conley, Thomas W. & Sally A., Trustees	L. 52902 F. 350	23910 Clarksburg, Rd., #210, Clarksburg, MD. 20871	23407 Frederick Rd., Clarksburg, MD. 20871	
12	N061	EW31	Damascus Community Bank	L. 17110 F. 730	26500 Ridge Rd., Damascus, MD. 20872	23400 Frederick Rd., Clarksburg, MD. 20871	
	P060	EW31	Damascus Community Bank	L. 17110 F. 730	26500 Ridge Rd., Damascus, MD. 20872	Frederick Rd., Clarksburg, MD. 20871	No Address

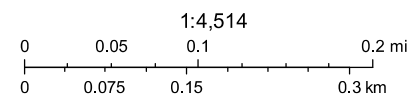
No. of Owners	PAR. No.	TAX MAP	OWNER NAME	DEED LIBER	MAILING ADDRESS	PREMISIS ADDRESS	Comments
	P176	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	23329 Frederick Rd., Clarksburg, MD. 20871	
22	P203	EW31	Aries Investment Group, LLC	L. 29511 F. 579	267 Kentlands Blvd., #1024, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
2	P311	EW31	Jaisai Properties, LLC	L. 49070 F. 436	4007 Broadstone, St., Frederick, MD. 21704	23310 Frederick Rd., Clarksburg, MD. 20871	
29	P912	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
	P860	EW32	Natelli Clarksburg, LLC	L. 21561 F. 443	506 Main St., FL 3, Gaithersburg, MD. 20878	Frederick Rd., Clarksburg, MD. 20871	No Address
15	P033	EW21	Barsanti, Ardwin H. Revocable Trust	L. 46867 F. 7	5113 Philip Rd., Annandale, VA. 22003	Frederick Rd., Clarksburg, MD. 20871	No Address
4	P258	EW31	Darby, Rodney H. & A. T.	L. 2553 F. 388	6125 Tuckerman La., Rockville, MD. 20852	Frederick Rd., Clarksburg, MD. 20871	No Address
	P259	EW31	Darby, Rodney H. & A. T.	No Deed Ref	6125 Tuckerman La., Rockville, MD. 20852	Frederick Rd., Clarksburg, MD. 20871	No Address
31	P814	EW32	Reliance Group, LLC	L. 52617 F. 218	7604 Brickyard Rd., Potomac, MD. 20854	23515 Frederick Rd., Clarksburg, MD. 20871	
19	P198	EW31	Potomac Holdings, LLC	No Deed Ref	7819 Norfolk Ave., Bethesda, MD. 20814	23200 Frederick Rd., Clarksburg, MD. 20871	
	P911	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23415 Frederick Rd., Clarksburg, MD. 20871	
	P913	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23421 Frederick Rd., Clarksburg, MD. 20871	
28	P926	EW32	Ben Lewis Real Estate, LLC	L. 27512 F. 29	P.O. Box 1510, Clarksburg, MD. 20871	23425 Frederick Rd., Clarksburg, MD. 20871	
18	N800	EW22	Mattlyn Enterprises, LLC	No Deed Ref	P.O. Box 178, Clarksburg, MD. 20871	23730 Frederick Rd., Clarksburg, MD. 20871	
30	P914	EW32	Ferguson/Anderson, LLC	L. 14707 F. 355	P.O. Box 42, Dickerson, MD. 20842	Frederick Rd., Clarksburg, MD. 20871	No Address

MD 355 SHARED USE PATH PROJECT - MCDOT/SHA HAWP APPLICATION - KEY FOR IMAGES OF HISTORIC PROPERTIES

Wallace Montgomery, 1/22/2020



January 2, 2020

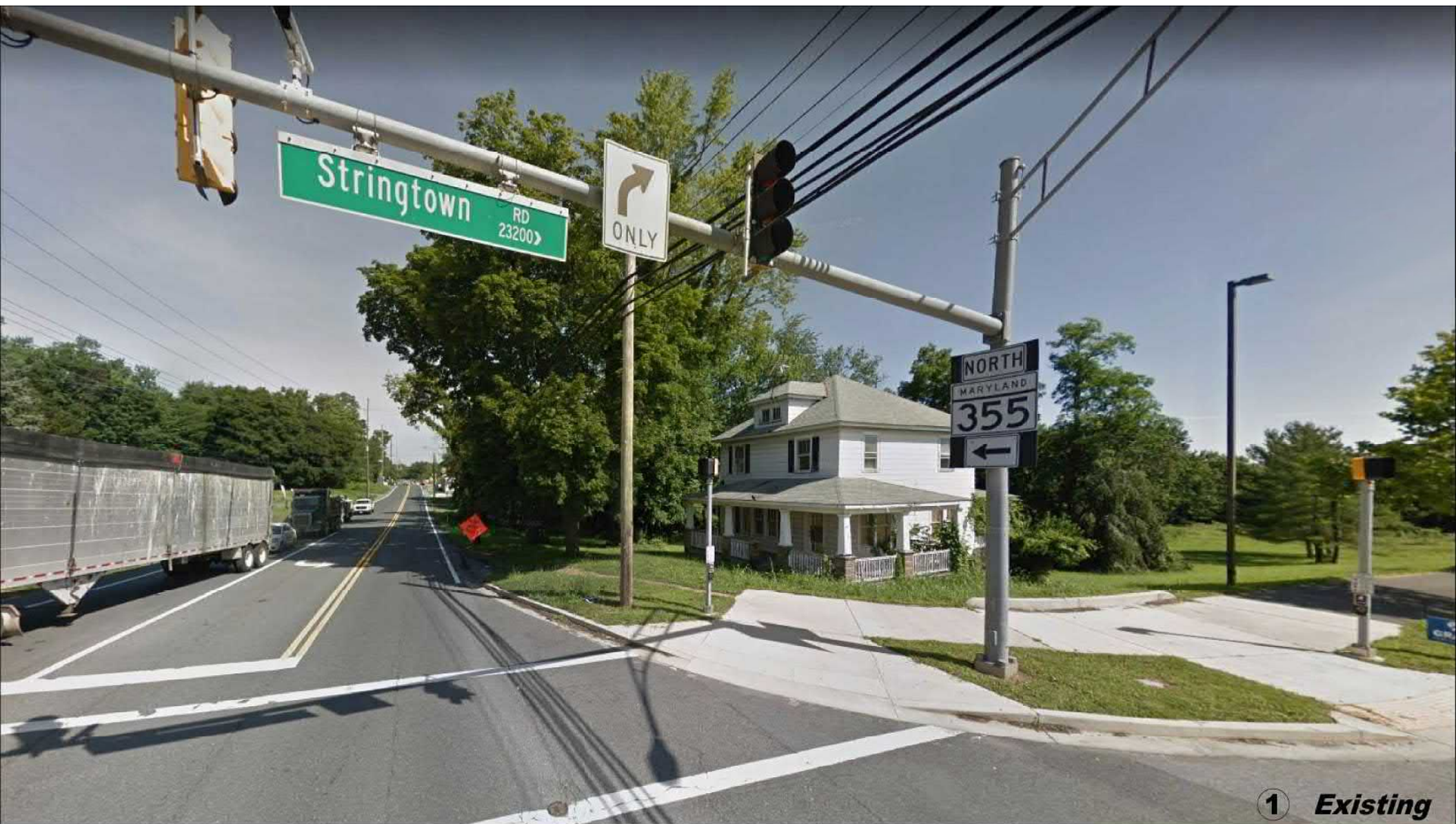


1. 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14
2. 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13
3. 23339 Frederick Road - Horace Wilson House - MIHP No. M: 13-10-3 (relocated)
4. 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4
5. 23345 Frederick Road
6. Triangle Park

7. 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12
8. 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10
9. 23421 Frederick Road - William Hurley House & Shoe Shop - MIHP No. M: 13-10-8

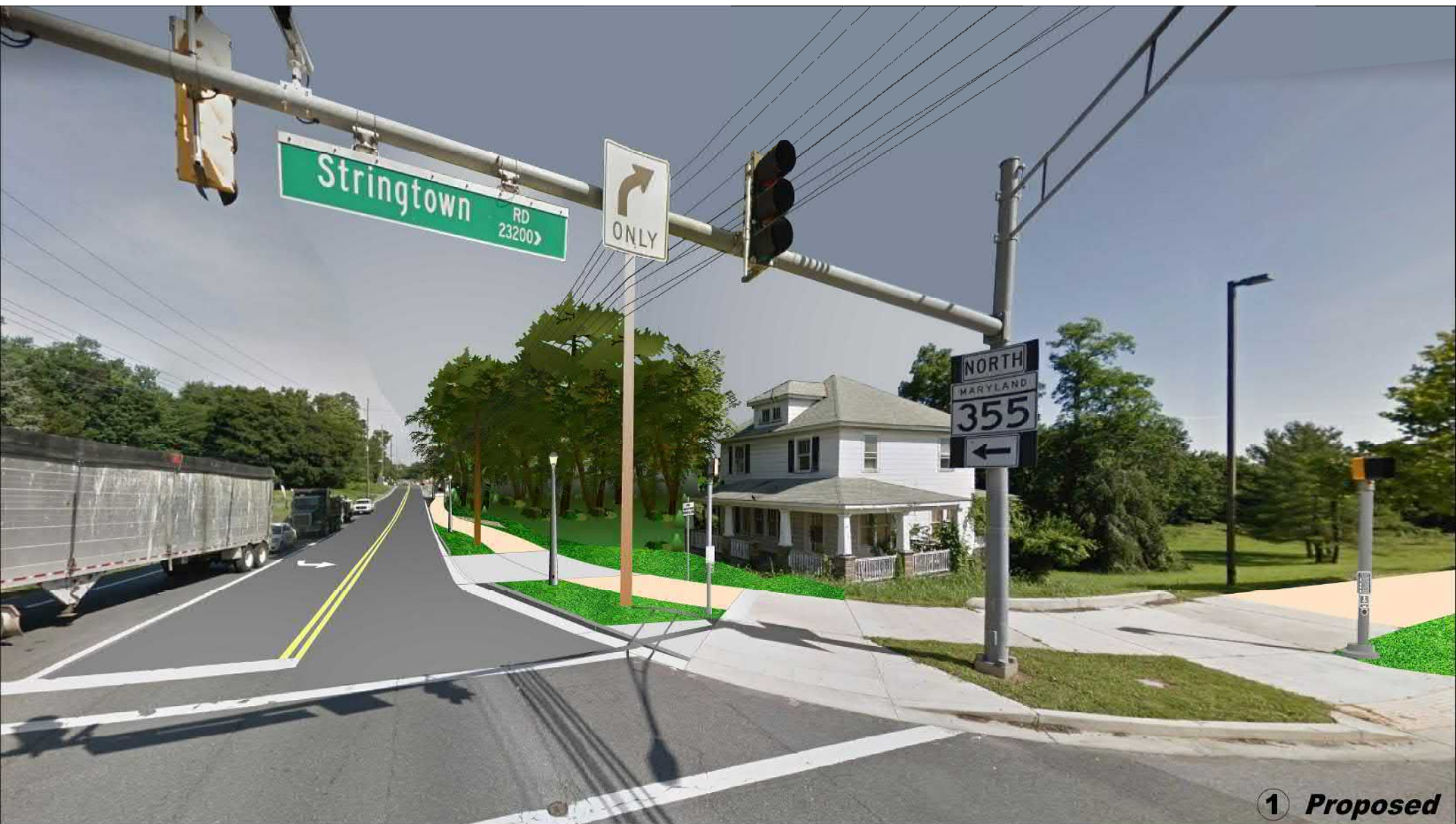
MD IMAP, MDP, SDAT
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Made by: Maryland Historical Trust
MDP



① *Existing*

Station 495+00 to 498+00 - 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14
23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9



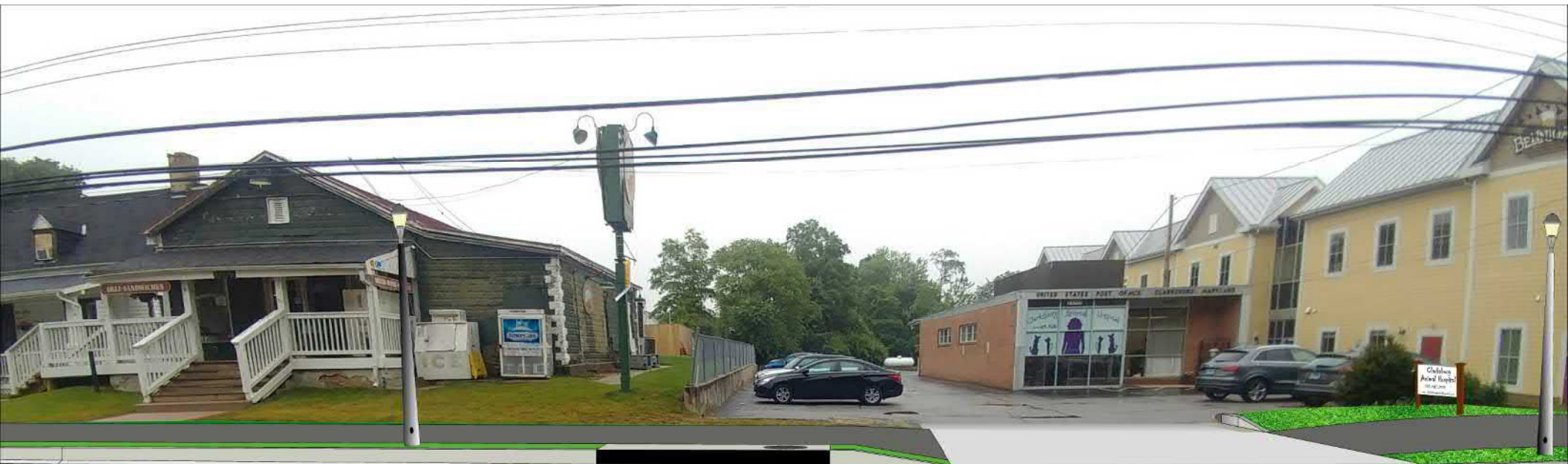
① *Proposed*

Station 495+00 to 498+00 - 23200 Stringtown Road - Day House - MIHP No. M: 13-10-14
23311 Frederick Road - Columbus Woodward House/John Henry Wims House - MIHP No. M: 13-10-9



② Existing

Station 500+00 - 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13



② *Proposed*

Station 500+00 - 23321 Frederick Road - Clarksburg Post Office - MIHP No. M: 13-10-13



**Station 501+00 - 23335 Frederick Road
Horace Wilson House (Relocated) - MIHP No. M: 13-10-3**



**Station 501+00 - 23335 Frederick Road
Horace Wilson House (Relocated) - MIHP No. M: 13-10-3**



Station 502+50 - 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4



Station 502+50 - 23341 Frederick Road - Wilson Store - MIHP No. M: 13-10-4

Google Maps 23345 Frederick Rd



Image capture: Dec 2016 © 2019 Google

Clarksburg, Maryland



Street View - Dec 2016

5 *Existing*

Station 503+50 - 23345 Frederick Road

Google Maps 23345 Frederick Rd



Image capture: Dec 2016 © 2019 Google

Clarksburg, Maryland



Street View - Dec 2016

5 ***Proposed***

Station 503+50 - 23345 Frederick Road



⑥ Existing

Station 504+50 to 506+00 - Triangle Park

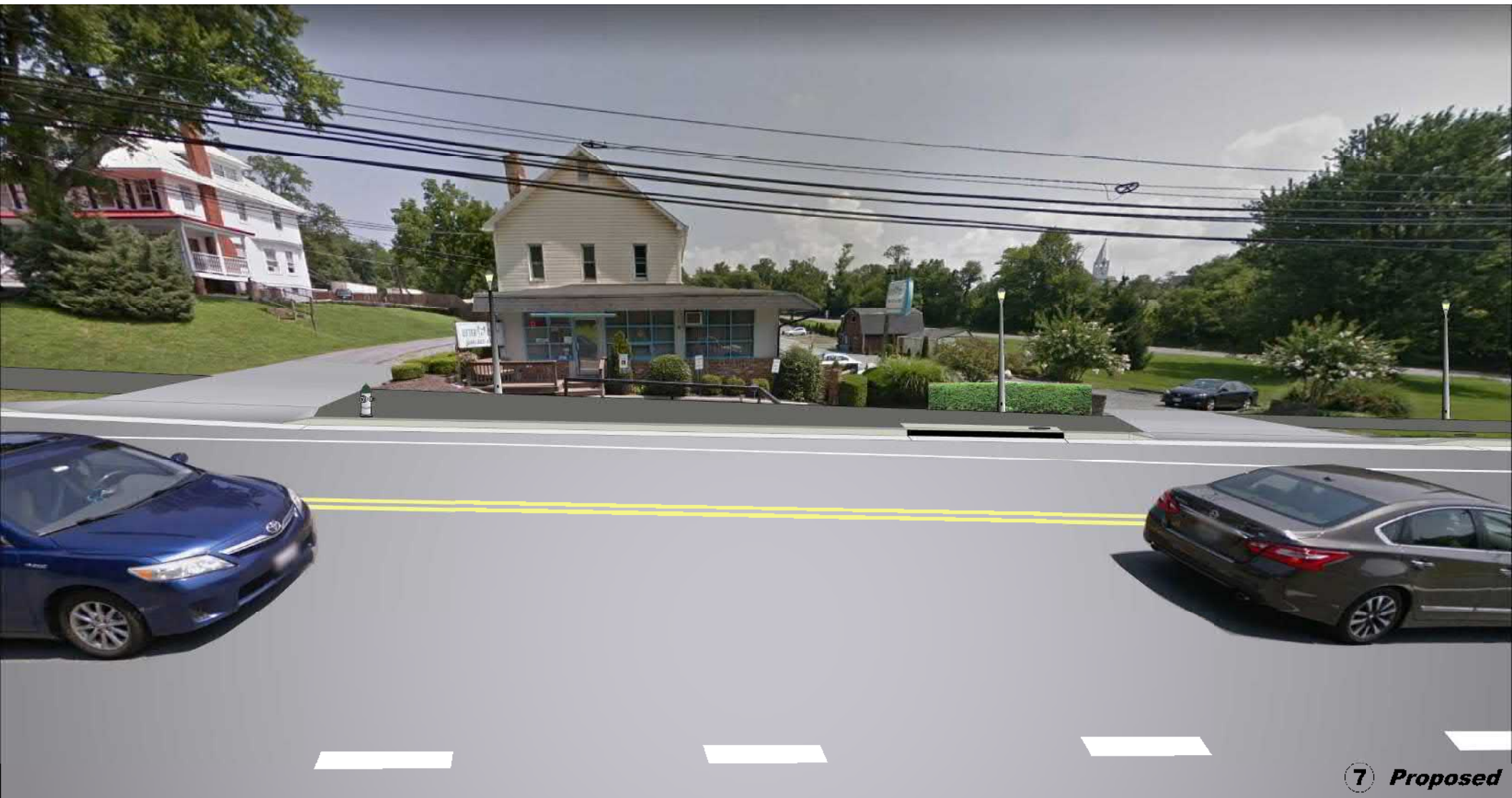


Station 504+50 to 506+00 - Triangle Park



7 Existing

Station 511+00 - 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12



Station 511+00 - 23401 Frederick Road - W.J. Dronenburg House - MIHP No. M: 13-10-12



⑧ Existing

Station 513+00 - 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10



Station 513+00 - 23415 Frederick Road - John Leaman House - MIHP No. M: 13-10-10



Station 514+50 - 23421 Frederick Road
William Hurley House & Shoe Shop - MIHP No. M: 13-10-8



Station 514+50 - 23421 Frederick Road
William Hurley House & Shoe Shop - MIHP No. M: 13-10-8

INDEX OF SHEETS

SEE SHEET 2

GENERAL NOTES

SEE SHEET 3

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION DIVISION OF TRANSPORTATION ENGINEERING MD 355 - CLARKSBURG SHARED USE PATH

STA. 495+29 TO STA. 531+37

C. I. P. PROJECT NO. 501744

90% SUBMITTAL

LIMIT OF WORK

**C.I.P. PROJECT NO. 501744
MD 355 (FREDERICK ROAD)
STA. 531+37**

LIMIT OF WORK

**C.I.P. PROJECT NO. 501744
MD 355 (FREDERICK ROAD)
STA. 515+21 =
C.I.P. PROJECT NO. 508000
CLARKSBURG ROAD
STA. 515+21**

LIMIT OF WORK

**C.I.P. PROJECT NO. 501744
MD 355 (FREDERICK ROAD)
STA. 503+64=
C.I.P. PROJECT NO. 508000
CLARKSBURG ROAD
STA. 503+64**

LIMIT OF WORK

**C.I.P. PROJECT NO. 501744
MD 355 (FREDERICK ROAD)
SHARED USE PATH
STA. 495+29**



SCALE : 1" = 2000' VICINITY MAP PROJECT LENGTH: 0.49 MILES DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL

OWNER'S / DEVELOPER'S 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.

DATE TIMOTHY H. CUPPLES, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE OF AND TRANSPORTATION "DRAINAGE DESIGN" DATED NOVEMBER, 2013 (REV. JUNE 10,2014) REGULATIONS 5-90., 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT

DATE GLENN MARSCHKE, P.E.
SENIOR ASSOCIATE, WALLACE MONTGOMERY

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					
TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain District		X			
WATERWAYS/WETLAND(S)					
a. Corps of Engineers	X				
b. MDE	X				
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
* DPS Roadside Trees Protection Plan	X			APPROVAL DATE	
N.P.D.E.S.					DATE FILED
NOTICE OF INTENT	X				
FEMA LOMR (Required Post Construction)		X			
OTHERS:					
M-NCPPC - CONSTRUCTION	X				
MSHA ACCESS PERMIT	X				
DNR - ROADSIDE TREE PERMIT	X				

* A copy of the approved Roadside Trees Protection Plan must be delivered to the sediment control inspector at the preconstruction meeting.

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
	Reviewed Date	Reviewed Date
Reviewed Date	Approved Date	SEDIMENT CONTROL PERMIT NO.
Approved Date		
SM FILE #		

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.

PLAN LOCATION OF SOIL BORING

SOIL BORING LOG SUMMARY SHEETS ARE INCLUDED IN THE INVITATION FOR BIDS BOOK.

CERTIFICATION OF QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE 7305 CUBIC YARDS OF EXCAVATION AND 400 CUBIC YARDS OF FILL AND THAT THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE XXXX SQUARE FEET.

DATE GLENN MARSCHKE, P.E.
SENIOR ASSOCIATE, WALLACE MONTGOMERY
MONTGOMERY COUNTY DOT MAINTENANCE CERTIFICATION
I HEREBY CERTIFY THAT THE DEPARTMENT OF TRANSPORTATION WILL ASSUME MAINTENANCE RESPONSIBILITIES FOR ALL STORMWATER MANAGEMENT FACILITIES AS LISTED AND SHOWN, HEREON, IN ACCORDANCE WITH THE MEMORANDUM OF UNDERSTANDING BETWEEN THIS DEPARTMENT AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED SEPTEMBER 1, 1986. IF, FOR ANY REASON, FUTURE IMPROVEMENTS TO THE ROADWAY ARE PLANNED THAT WOULD IMPACT ANY OF THE STORMWATER MANAGEMENT FACILITIES INCLUDED HEREIN, THIS DEPARTMENT WILL NOTIFY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DURING THE PLANNING OR EARLY DESIGN STAGE OF SUCH IMPROVEMENTS.

DATE TIMOTHY H. CUPPLES, P.E.
CHIEF, DIVISION OF TRANSPORTATION ENGINEERING

TITLE SHEET	
MD 355 - CLARKSBURG SHARED USE PATH	
<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878</p>	<p>SCALE : NO SCALE 09/2019</p>
<p>RECOMMENDED FOR APPROVAL</p> <p>Chief, Design Section APPROVED</p> <p>Chief, Division of Engineering Services</p> <p>Designed by : J.D.W. Drawn by : J.D.W. Checked by : S.R.R.</p>	<p>Project No. : C.I.P. PR. # 501744 SHEET 35 of 88</p>

TREE CANOPY REQUIREMENTS TABLE	
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 <input type="checkbox"/> No <input type="checkbox"/> If exempt under Section 55-5 of the Code, please check the applicable exemption category below.	
Total Property Area	Total Disturbed Area
square feet	square feet
Shade Trees Required	Shade Trees Proposed to be Planted
Fee In Lieu (Trees Required - Trees Planted) x \$250	\$
Required Number of Shade Trees	
Area (sq. ft.) of the Limits of Disturbance	Number of Shade Trees Required
FROM TO	
1 6,000	3
6,001 8,000	6
8,001 12,000	9
12,001 14,000	12
14,001 40,000	15
If the square footage of the limits of disturbance is more than 40,000, then the number of shade trees required must be calculated using the following formula: (Number of Square Feet in Limits of Disturbance ÷ 40,000) × 15	
EXEMPTION CATEGORIES:	
<input type="checkbox"/> 55-5(a) any activity that is subject to Article II of Chapter 22A; <input type="checkbox"/> 55-5(b) any commercial logging or timber harvesting operation with an approved exemption from Article II of Chapter 22A; <input type="checkbox"/> 55-5(c) any activity conducted by the County Parks Department; <input type="checkbox"/> 55-5(d) routine or emergency maintenance of an existing stormwater management facility, including an existing access road, if the person performing the	<input type="checkbox"/> maintenance has obtained all required permits; <input type="checkbox"/> 55-5(f) any stream restoration project if the person performing the work has obtained all necessary permits; <input type="checkbox"/> 55-5(g) cutting or clearing any tree to comply with applicable provisions of any federal, state, or local law governing safety of dams; <input type="checkbox"/> OTHER: Specify per Section 55-5 of the Code.

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.WallaceMontgomery.com A Limited Liability Partnership

MCDOT
Montgomery County Department of Transportation
100 EDISON PARK DR., 4TH FLOOR GAITHERSBURG, MD 20878
240-777-7224



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4	TS 01 OF 01	TYPICAL SECTIONS
5	DE 01 OF 01	PAVEMENT DETAILS
6	CR 01 OF 01	CURB ELEVATIONS AND OFFSETS
7	GS 01 OF 01	GEOMETRY LAYOUT
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9	PS 02 OF 07	ROADWAY PLAN - STA. 498+00 to STA. 501+50 (MD 355)
10	PS 03 OF 07	ROADWAY PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
11	PS 04 OF 07	ROADWAY PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
12	PS 05 OF 07	ROADWAY PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
13	PS 06 OF 07	ROADWAY PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
14	PS 07 OF 07	ROADWAY PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
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16	SR 02 OF 06	STREAM RESTORATION PROFILE
17	SR 03 OF 06	STREAM RESTORATION TYPICAL SECTIONS
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19	SR 05 OF 06	STREAM RESTORATION DETAILS
20	SR 06 OF 06	STREAM RESTORATION GEOMETRY LAYOUT
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22	DD 01 OF 02	DRAINAGE SCHEDULE AND DETAILS
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26	DP 03 OF 03	DRAINAGE PROFILE
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29	SC 03 OF 19	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
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34	SC 08 OF 19	INITIAL EROSION AND SEDIMENT CONTROL PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
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40	SC 14 OF 19	FINAL EROSION AND SEDIMENT CONTROL PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
41	SC 15 OF 19	FINAL EROSION AND SEDIMENT CONTROL PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
42	SC 16 OF 19	FINAL EROSION AND SEDIMENT CONTROL PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
43	SC 17 OF 19	FINAL EROSION AND SEDIMENT CONTROL PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
44	SC 18 OF 19	FINAL EROSION AND SEDIMENT CONTROL PLAN - STA. 528+00 TO STA. 531+37 (MD 355)
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47	MT 02 OF 02	MAINTENANCE OF TRAFFIC TYPICAL PLAN
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57	LT 04 OF 08	LIGHTING PLAN - STA. 501+50 TO STA. 505+00 (MD 355)
58	LT 05 OF 08	LIGHTING PLAN - STA. 514+50 TO STA. 519+00 (MD 355)
59	LT 06 OF 08	LIGHTING PLAN - STA. 519+00 TO STA. 523+50 (MD 355)
60	LT 07 OF 08	LIGHTING PLAN - STA. 523+50 TO STA. 528+00 (MD 355)
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FOR ALL CONSTRUCTION WITHIN THE STATE OF MD RIGHT-OF-WAY THE CONTRACTOR SHALL REFER TO THE SHA BOOK OF STANDARDS WHICH CAN BE ACCESSED AT:
HTTP://APPS.ROADS.MARYLAND.GOV/BUSINESSWITHSHA/BIZSTDOSPECS/DESMANUALSTOPUB/PUBLICATIONSONLINE/OHD/BOOKSTD/INDEX/ASP.

THE FOLLOWING LIST OF STANDARDS SHALL BE USED WITHIN THIS PROJECT:	
STD. NO.	
MD 356.01	STANDARD TYPE E ENDWALL METAL OR CONCRETE ROUND PIPE
MD 368.01	STANDARD CONCRETE END SECTION ROUND CONCRETE PIPE
MD 374.51	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COG INLETS 5', 10', 15' & 20'
MD 374.55	PRECAST CONCRETE INLET SLABS AND ADJUSTMENT COLLARS FOR COG AND COS INLETS
MD 374.61	PRECAST OR CAST IN PLACE SQUARE AND RECTANGULAR COS INLETS 5', 10', 15' & 20'
MD 374.68	PRECAST OR CAST-IN-PLACE COG/COS OPENING FOR 8" CURB 5' OR 10' ONLY
MD 378.03	STANDARD SINGLE OR DOUBLE OPENING TYPE K INLET OPEN-END GRATE NON-TRAFFIC AREAS
MD 383.00	48" SQUARE STANDARD SHALLOW MANHOLE
MD 578.01	REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
MD 580.03	NEW COMBINATION CURB AND GUTTER PLACEMENT ALONG EXISTING PAVEMENT
MD 580.08	DRIVEWAYS AND BIKE PATHS PAVEMENT SECTIONS
MD 620.02	STANDARD TYPES A & B CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
MD 620.03	DEPRESSED CURB FOR COMBINATION CURB AND GUTTER AND DEPRESSED CURB FOR SIDEWALK RAMPS
MD 630.02	STANDARD ENTRANCE CONSTRUCTION RESIDENTIAL & COMMERCIAL METHOD NO. 2
MD 635.01	MAILBOX PLACEMENT DETAILS
MD 655.11	SIDEWALK RAMPS PERPENDICULAR
MD 655.40	DETECTABLE WARNING SURFACES
MD 657.00	STANDARD STAIRWAYS
SUP-FR(FN)-302	TYPE III CHAIN LINK FENCE
REBAR-BL-101	BAR LAP FOR MIX 3 CONCRETE, GRADE 60 REBAR
REBAR-DL-101	DEVELOPMENT LENGTH FOR MIX 3, GRADE 60 REBAR
REBAR-BB-102	REBAR HOOKS
RW-301	DRAINAGE SYSTEM

NOTE: ALL ITEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT VERSION OF THE REFERENCED STANDARD AT THE TIME OF CONSTRUCTION.




WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
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www.wallacemontgomery.com

A Limited Liability Partnership

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Engineering Services

Date

Designed by : J.D.W. Drawn by : J.D.W. Checked by : S.R.R.

PLAN SHEET INDX-01
INDEX OF SHEETS
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE : NO SCALE

Project No. : C.I.P. PR. # 501744 SHEET 02 of 88

09/2019

FL01PR 3/16/2019
FILE: H:\PROJECTS\2013\0010\Highways\Cadd\pGN-1001_MD355.dgn

GENERAL NOTES

1. THE SPECIFICATIONS FOR THIS CONTRACT WILL BE THOSE OF THE MARYLAND STATE HIGHWAY ADMINISTRATION DATED JULY 2011, ALL ERRATA AND ADDENDA THERETO. THE MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES, WASHINGTON SUBURBAN SANITARY COMMISSION (W.S.S.C.) STANDARDS, MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION STANDARDS, AND SOIL CONSERVATION SERVICE POND CONSTRUCTION SPECIFICATIONS FOR MARYLAND.
2. FOR CONSTRUCTION, ALL HORIZONTAL CONTROL SHALL BE STATE HIGHWAY ADMINISTRATION NAD 83/91 AND VERTICAL CONTROL NAVD 88.
3. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE LINES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR SIX (6) INCHES, WHICHEVER IS LESS, THE CONTRACTOR SHALL CONTACT THE MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION'S PROJECT INSPECTOR AND THE UTILITY OWNER BEFORE PROCEEDING WITH CONSTRUCTION.
4. CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE. REPAIRS TO UTILITIES OR PROPERTY DAMAGED AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION, MUST BE MADE AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COST TO MONTGOMERY COUNTY BEFORE PROCEEDING WITH CONSTRUCTION.
5. GRADING SHALL BE DONE IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE IN BOTH TEMPORARY AND PERMANENT CONDITIONS.
6. DISTURBED AREAS ADJACENT TO ESTABLISHED LAWNS SHALL BE SODDED. OTHER DISTURBED AREAS SHALL BE SEEDED AND MULCHED.
7. CLEARING TO BE LIMITED TO THE "LIMIT OF DISTURBANCE" AS SHOWN ON THE PLANS.
8. CONTACT THE WASHINGTON SUBURBAN SANITARY COMMISSION SYSTEM MAINTENANCE ENGINEER BEFORE EXCAVATING BENEATH OR IN THE VICINITY OF EXISTING WATER OR SEWER LINES. BACKFILL TO BE DONE UNDER THE SUPERVISION OF W.S.S.C., CALL (301) 699-4420
9. ALL STORM DRAINS SHALL BE INSTALLED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED.
10. ALL UTILITY POLES NOTED FOR RELOCATION SHALL BE PERFORMED BY OTHERS.
11. THE CONTRACTOR SHALL OBTAIN A ROADSIDE TREE PERMIT FOR ANY MAINTENANCE, TREATMENT, PLANTING, REMOVAL OR ROOT CUTTING ON TREES WITHIN THE PUBLIC RIGHT-OF-WAY BEFORE STARTING A JOB. PERMIT REQUIREMENTS MAY BE OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES - MARYLAND FOREST, PARK AND WILDLIFE SERVICE, WHOSE TELEPHONE NUMBER IS (301) 854-6060. THE PERMIT PROCESS TAKES SEVERAL DAYS. TAKE THIS INTO CONSIDERATION BEFORE STARTING A JOB.
12. THE LOCATION OF RIGHT-OF-WAY AND EASEMENT LINES SHOWN ON THE PLANS ARE FOR INFORMATION AND GUIDANCE ONLY. NO GUARANTEE IS MADE AS TO THE ACCURACY OF SAID LOCATIONS. PLEASE REFER TO THE APPROPRIATE RIGHT-OF-WAY PLAT FILES NO. 776 TO 781.
13. CONCRETE DESIGN: SERVICE LOAD DESIGN METHOD.
14. REINFORCING STEEL DESIGN: (f's=24,000 PSI)
15. ALL CONCRETE SHALL BE MIX NO. 2 f'c=3000 psi UNLESS OTHERWISE NOTED.
16. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60. ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER ACI 318 REQUIREMENTS. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERWISE NOTED.
17. WHEN THE DROP OF THE MAIN LINE THROUGH A STRUCTURE IS GREATER THAN THAT WHICH CAN BE ACCOMMODATED BY A SHAPED CHANNEL WITH THE INVERT ON A 1.5 FOOT HORIZONTAL TO 1 FOOT VERTICAL SLOPE, THE BOTTOM OF THE STRUCTURE SHALL BE LINED WITH GRANITE BLOCKS AT LEAST 4 INCHES THICK. NO SHAPED CHANNEL WILL BE REQUIRED FOR THIS TYPE OF CONSTRUCTION, BUT THE BOTTOM OF THE STRUCTURE SHALL SLOPE AT LEAST 1/2 INCH PER FOOT TOWARD THE INVERT OF THE OUTLET PIPE.
18. FOR ADDITIONAL NOTES ON DRAINAGE STRUCTURES AND RETAINING WALLS SEE NOTES ELSEWHERE IN PLANS.
19. WHERE CURB AND GUTTER ENDS ARE EXPOSED, PROVIDE A NOSE DOWN SECTION AT 3:1 SLOPE.
20. DISTURBED AREAS TO BE PERMANENTLY GRASS SHALL RECEIVE 2" OF TOPSOIL.
21. STORM DRAIN AND UTILITY INSTALLATION WITHIN SHA RIGHT-OF-WAY AND IN EXISTING PAVEMENT SHALL BE IN ACCORDANCE WITH MD 578.01. ALL COSTS ASSOCIATED WITH MEETING THE REQUIREMENTS OF MD 578.01 SHALL BE INCIDENTAL TO THE APPLICABLE UTILITIES AND STORM DRAIN ITEMS.
22. SUBSURFACE INVESTIGATION RESULTS (TEST HOLES, SOIL BORINGS, ETC.) WILL BE MADE AVAILABLE TO THE CONTRACTOR.
23. PROPOSED INLETS AND ASSOCIATED PIPE EXTENSIONS SHALL BE CONNECTED TO THE NEAREST SOUND JOINT OF THE EXISTING PIPE AND IN COMPLIANCE WITH THE CONCRETE COLLAR CONNECTION DETAIL SHOWN ON THE STORM DRAIN SCHEDULE SHEET. PIPE CONNECTIONS WHETHER NEW PIPES TO EXISTING PIPES, NEW INLETS TO EXISTING PIPES, OR NEW PIPES TO EXISTING INLETS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO PERTINENT STORM DRAIN ITEMS.
24. NOTIFY MR. TONY GOODMAN (703) 750-4708 OF WASHINGTON GAS, FOR STAND BY, 48 HOURS PRIOR TO ANY EXCAVATION IN THE VICINITY OF NATURAL GAS TRANSMISSION LINES.
25. ANY RELOCATION OF EXISTING NATURAL GAS TRANSMISSION LINES MAY ONLY BE ABLE TO BE PERFORMED DURING THE NON-HEATING SEASON, MAY THROUGH SEPTEMBER.

EXPLANATORY NOTES AND REFERENCES

SIGHT DISTANCES: STOPPING SITE DISTANCES FOR VERTICAL CREST CURVES ARE BASED ON A HEIGHT OF EYE OF 3.5' AND A HEIGHT OF OBJECT OF 2'-0".

PIPE CULVERTS: ALL PIPE LENGTHS AND LOCATIONS SHALL BE VERIFIED IN THE FIELD AND CHECKED BY THE ENGINEER BEFORE ORDERING.

INVERT ELEVATIONS: ALL INVERT ELEVATIONS HAVE BEEN CALCULATED WITH THE MOST RELIABLE DATA AVAILABLE. FIELD CHANGES WILL BE AT THE DIRECTION OF THE ENGINEER.

CONVENTIONAL SIGNS

PROPOSED MEDIAN BARRIER	
ELECTRICAL HAND BOX - SIGNALS	
EXISTING GROUND LINE	
PROPOSED TRAFFIC BARRIER	
EXISTING TRAFFIC BARRIER	
FENCE LINE	
EXISTING RIGHT OF WAY LINE	
PROPOSED RIGHT OF WAY LINE	
EASEMENT	
PROPERTY LINE	
EXISTING ROADWAY.....	
RAILROAD	
BASE OR SURVEY LINE	
FIRE HYDRANT	
PROPOSED CULVERT.....	
EXISTING CULVERT.....	
EXISTING DROP INLET.....	
UTILITY POLE.....	
EXISTING CURB & GUTTER	
WETLAND	
HEDGE	
WATER LINE	
SANITARY SEWER LINE	
GAS LINE.....	
SOIL BORING TARGET.....	
TEST PIT LOCATION	
EXISTING SANITARY MANHOLE	
EXISTING STORM DRAIN MANHOLE	
WATERS OF U.S. (AND ID NUMBERS).....	
STORMDRAIN STRUCTURE IDENTIFICATION.....	

MAINTENANCE OF TRAFFIC NOTES

1. ALL VEHICULAR AND PEDESTRIAN TEMPORARY TRAFFIC CONTROL ACTIVITIES SHALL ADHERE TO THE MARYLAND STATE HIGHWAY ADMINISTRATION'S (MSHA) BOOK OF STANDARDS FOR HIGHWAY, INCIDENTAL STRUCTURES AND TRAFFIC CONTROL APPLICATIONS.
2. CONSTRUCTION ACTIVITIES IMPACTING VEHICULAR TRAVEL ALONG MD 117 (CLOPPER ROAD) SHALL BE PERFORMED USING DAY-TIME STANDARD SHOULDER (AUXILIARY LANE) AND LANE CLOSURE FLAGGING OPERATIONS. REFER TO THE ALLOWABLE LANE CLOSURE SCHEDULE IN THE SPECIAL PROVISIONS FOR SPECIFIC ALLOWABLE WORKING DAYS AND TIMES.
3. EXISTING BUS STOP AND DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH MONTGOMERY COUNTY RIDE-ON TO DETERMINE POSSIBLE TEMPORARY PROVISIONS DURING CONSTRUCTION.
4. ACCESS TO EXISTING PEDESTRIAN FACILITIES SHALL BE MAINTAINED DURING CONSTRUCTION. ONLY ONE CORNER OF AN INTERSECTION AND ONE PEDESTRIAN CROSSING ACCESS MAY BE CLOSED AT A TIME, AND PERMANENT SIDEWALK CLOSURES SHOULD BE MINIMIZED.

FIELD SURVEY NOTES

1. TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED BY WALLACE MONTGOMERY DECEMBER 19-21, 2016. SUPPLEMENTAL SURVEYS WERE PERFORMED JANUARY-MARCH 2017.
2. GANNETT FLEMING TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED BY MERCADO CONSULTANTS APRIL 2017.
3. TOPOGRAPHIC INFORMATION SHOWN ALONG THE NORTHBOUND SIDE OF MD355 FROM STA. 500+10± TO STA 502+10± IS FROM CONSTRUCTION DRAWINGS DATED SEPTEMBER 2015 FOR THE CLARKSBURG CONNECTOR PROJECT AND MAY NOT REPRESENT CURRENT EXISTING CONDITIONS. CONSTRUCTION DRAWINGS DATED SEPTEMBER 2015 FOR THE CLARKSBURG CONNECTOR PROJECT PROVIDED BY MCDOT.

ABBREVIATIONS

ABUT	-	ABUTMENT	P/C	-	POINT OF CROWN
ACCT. NO.	-	ACCOUNT NUMBER	P.C.	-	POINT OF CURVATURE
APPROX.	-	APPROXIMATE	P.C.C.	-	POINT OF COMPOUND CURVATURE
ASPH	-	ASPHALT SURFACE	P/GE	-	PROFILE GRADE ELEVATION
BK.	-	BACK	P.G.L.	-	PROFILE GRADE LINE
BL	-	BASELINE	P/GL	-	PROFILE GROUND LINE
BLVD	-	BOULEVARD	PIE	-	PUBLIC IMPROVEMENT EASEMENT
BRG.	-	BEARING, BORING	P.I.	-	POINT OF INTERSECTION
B.R.L.	-	BUILDING RESTRICTION LINE	PROP.	-	PROPOSED
CATV	-	CABLE TV	P.S.I.	-	POUNDS PER SQUARE INCH
CL	-	CENTERLINE	P.S.F.	-	POUNDS PER SQUARE FOOT
CONC.	-	CONCRETE	P.O.B.	-	POINT OF BEGINNING
CMP	-	CORRUGATED METAL PIPE	P.O.E.	-	POINT OF ENDING
CORR.	-	CORRECTION (V.C.)	P/R	-	POINT OF ROTATION
CSW	-	CONCRETE SIDEWALK	P.P.C.C.	-	PLAIN PORTLAND CEMENT CONCRETE
CSXT	-	CSX RAILROAD	P.T.	-	POINT OF TANGENT
C.Y.	-	CUBIC YARDS	PUE	-	PUBLIC UTILITY EASEMENT
Dc	-	DEGREE OF CURVE	P.V.C.	-	POINT OF VERTICAL CURVE
DELTA	-	CENTRAL ANGLE (CURVE DATA)	P.V.I.	-	POINT OF VERTICAL INTERSECTION
DEV	-	DEVELOPMENT	P.V.R.C.	-	POINT OF VERTICAL REVERSE CURVE
DIA.	-	DIAMETER	PVT.	-	PAVEMENT
DI	-	EXISTING DRAIN INLET	P.V.T.	-	POINT OF VERTICAL TANGENCY
E	-	EXTERNAL DISTANCE (CURVE DATA)	R	-	RADIUS (CURVE DATA)
EA.	-	EACH	R.C.P.	-	REINFORCED CONCRETE PIPE
E.B.R.	-	EAST BOUND ROADWAY	RT.	-	RIGHT
ELEV., EL	-	ELEVATION	R/W	-	RIGHT OF WAY
EX., EXIST.	-	EXISTING	S.B.R.	-	SOUTH BOUND ROADWAY
EXP.	-	EXPANSION	SDWK.	-	SIDEWALK
F.S.	-	FAR SIDE	SC	-	STORMCEPTOR
F/O	-	FIBER OPTIC	SD	-	STORM DRAIN
F.215	-	FOLIO	SF	-	SQUARE FEET
HI	-	HIGH POINT	SHA	-	STATE HIGHWAY ADMINISTRATION
INV.	-	INVERT	S.Y.	-	SQUARE YARDS
L	-	LENGTH OF CURVE (CURVE DATA)	SPP	-	STRUCTURAL PLATE PIPE
LBS	-	POUNDS	STA.	-	STATION
L.F.	-	LINEAR FEET	STD.	-	STANDARD
LO	-	LOW POINT	SSD	-	STOPPING SIGHT DISTANCE
LT.	-	LEFT	SMH	-	SANITARY MANHOLE
L.5660	-	LIBER	SWM	-	STORM WATER MANAGEMENT
MAX.	-	MAXIMUM	SW-I	-	STORM WATER MANAGEMENT BORING
MC	-	MONTGOMERY COUNTY	T	-	TANGENT (CURVE DATA)
MD	-	MARYLAND	TBD	-	TO BE DETERMINED
M.H., MH	-	MANHOLE	TC	-	TOP OF CURB
MIN.	-	MINIMUM	TRANS	-	TRANSFORMER
MOD.	-	MODIFIED	TRAV	-	TRAVERSE POINT
MSE	-	MECHANICAL STABILIZED EARTH	TYP.	-	TYPICAL
N.B.R.	-	NORTH BOUND ROADWAY	UG	-	UNDERGROUND
N.D.C.	-	NOSE DOWN CURB	UTIL.	-	UTILITY STRUCTURE
NO.	-	NUMBER	VC	-	VERTICAL CURVE
NORM.	-	NORMAL	W	-	WATER LINE
NRI	-	NATURAL RESOURCE INVENTORY	W.B.R.	-	WEST BOUND ROADWAY
FSD	-	FOREST STAND DELINEATION	W.P.	-	WORKING POINT
N.S.	-	NEAR SIDE			
NTS	-	NOT TO SCALE			

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Engineering Services

Designed by : J.D.W. Drawn by : J.D.W. Checked by : S.R.R.

PLAN SHEET GN-01
GENERAL NOTES AND DEFINITIONS
MD 355 - CLARKSBURG
SHARED USE PATH

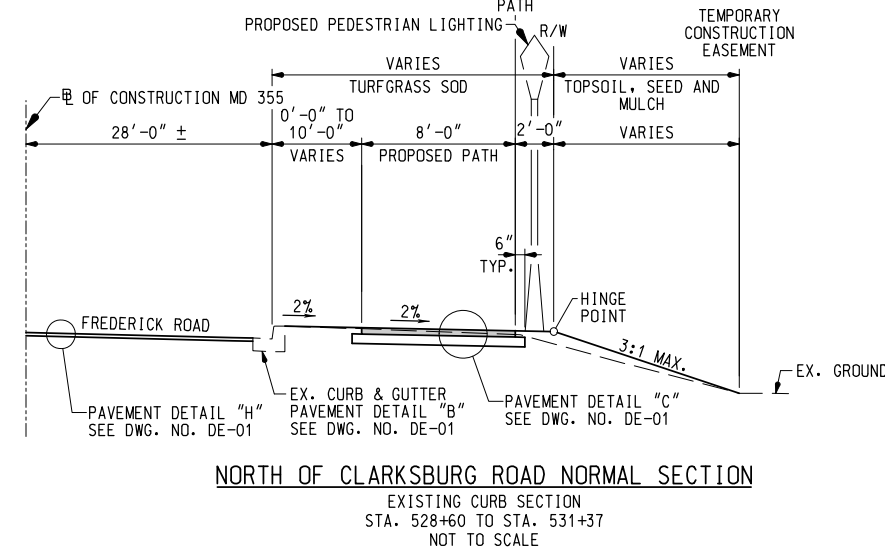
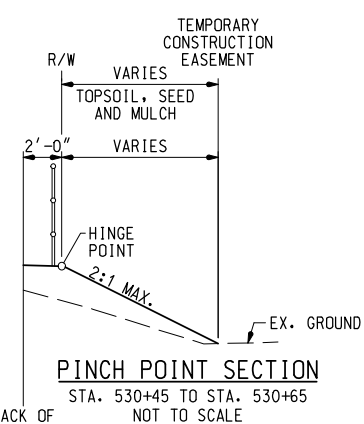
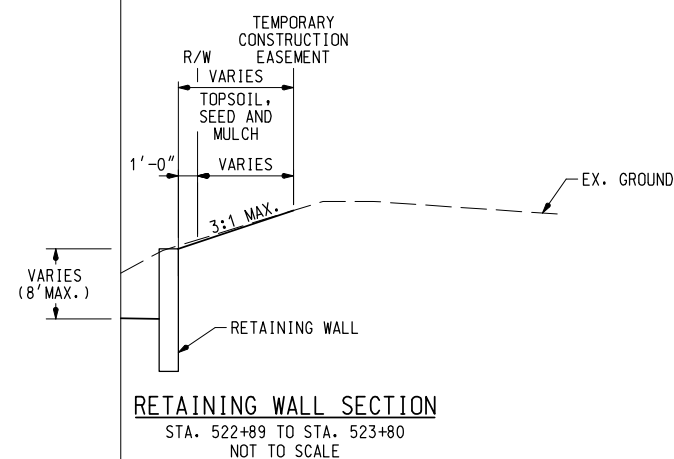
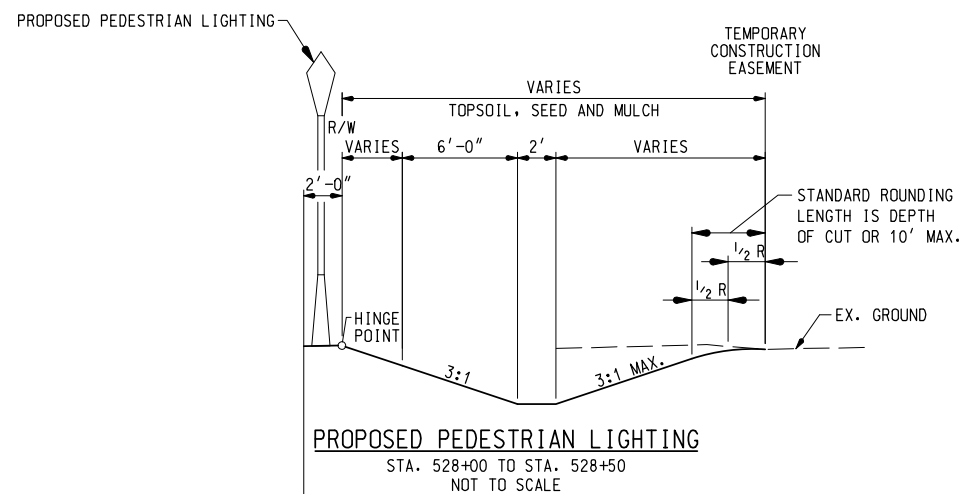
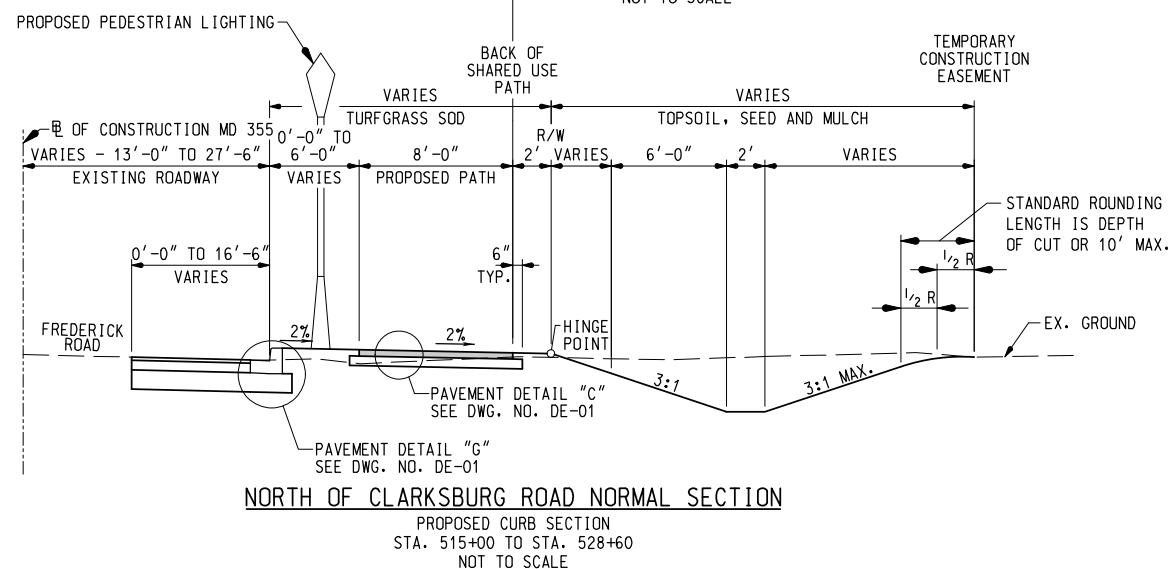
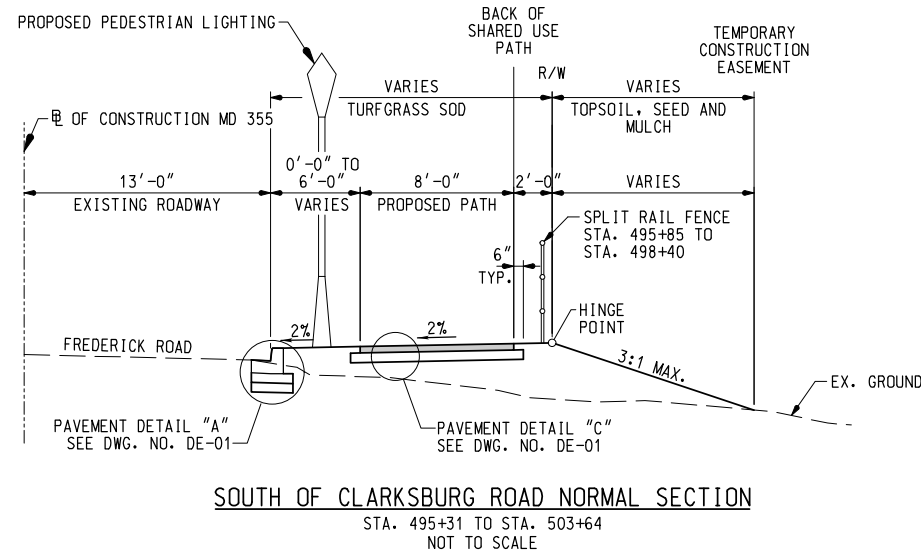
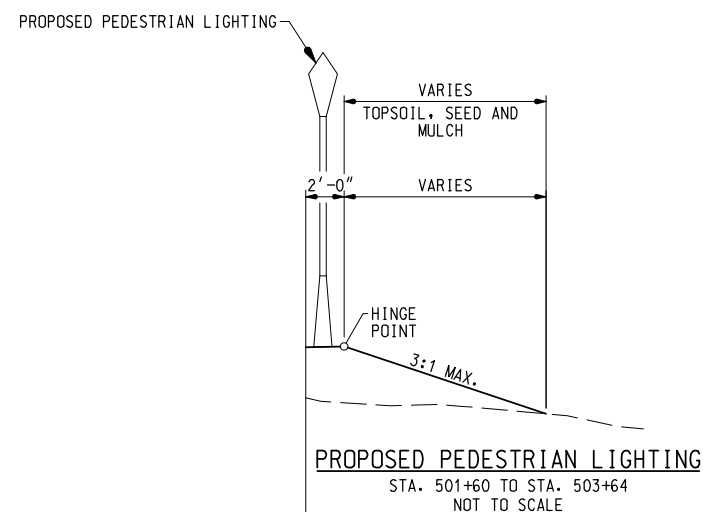
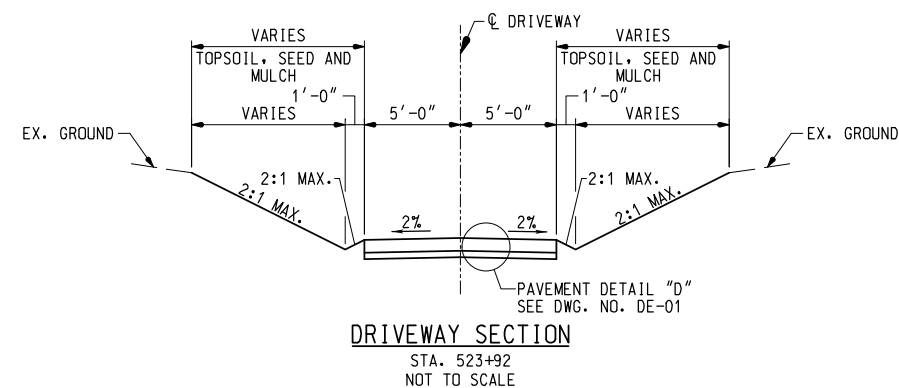
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Project No. : C.I.P. PR. # 501744 SHEET 03 of 88



**WALLACE
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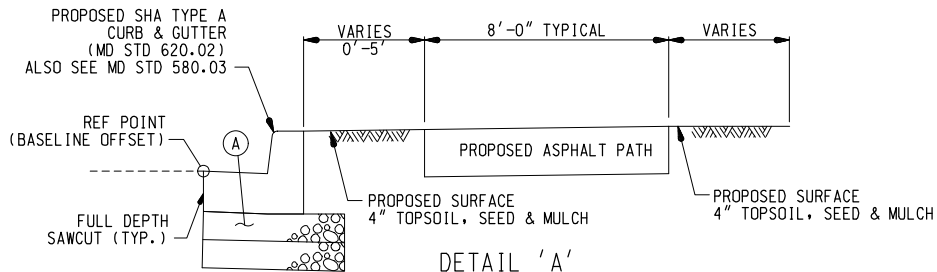


MONTGOMERY COUNTY
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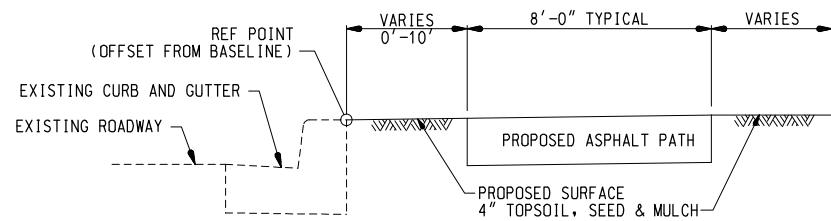
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by : J.D.W.	Drawn by : J.D.W.
Checked by : S.R.R.	

PLAN SHEET TS-01 TYPICAL SECTIONS MD 355 - CLARKSBURG SHARED USE PATH

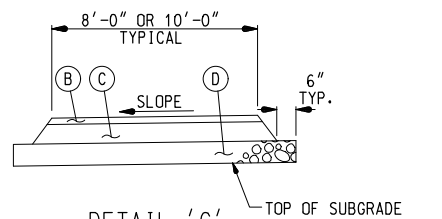
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Project No. : C.I.P. PR. # 501744 SHEET 04 of 88



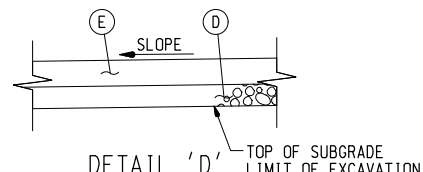
- ① 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)
(INCIDENTAL TO C&G PAYMENT)



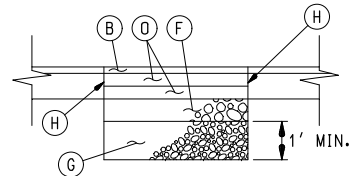
DETAIL 'B'
EXISTING CURBED SECTION
NOT TO SCALE



- ② 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
③ 3.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2
④ 4.0" GRADED AGGREGATE BASE COURSE

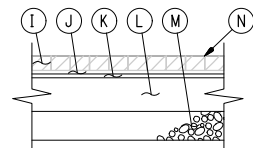


- ⑤ 8.0" PLAIN CEMENT CONCRETE PAVEMENT, MIX 9
⑥ 4.0" GRADED AGGREGATE BASE COURSE



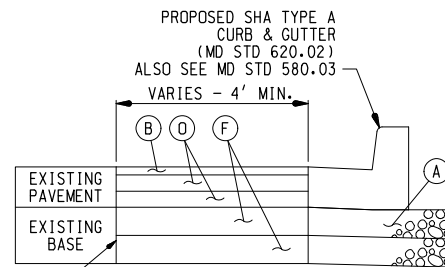
DETAIL 'E'
REPAIRING PAVEMENT OPENINGS FOR UTILITY TRENCHES
NOT TO SCALE

- ⑦ 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
⑧ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2
⑨ 6.0" GRADED AGGREGATE BASE COURSE
⑩ NO. 57 AGGREGATE
⑪ FULL DEPTH SAWCUT (TYP.)

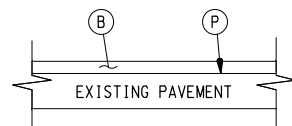


DETAIL 'F'
BRICK DRIVEWAY FOR BENNIGAN'S ENTRANCE
NOT TO SCALE

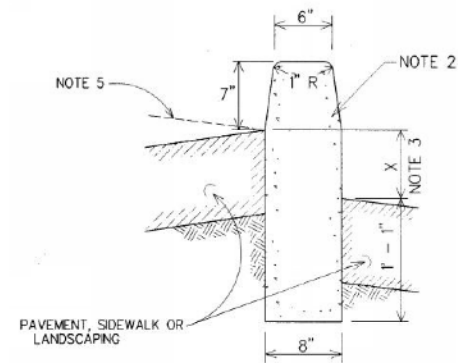
- ⑫ 4"x8"x2 1/4" MIN. BRICK PAVERS WITH HAND TIGHT JOINTS AND 3:1 SAND CEMENT SWEEP
⑬ ADHESIVE COAT - NEOPRENE MODIFIED ASPHALT PRIMECOAT - LOW VISCOSITY LIQUID ASPHALT
⑭ 3/4" BITUMINOUS SETTING BED (ADJUST THICKNESS IF PAVEMENT THICKNESS VARIES)
⑮ 7" POURED CONCRETE BASE, 3500 PSI, 6"x6"x2.1x2.1 WELDED WIRE CONTINUOUS WITHIN SLAB
⑯ 6.0" DENSE GRADED AGGREGATE BASE COURSE
⑰ FINISH GRADE OF PAVEMENT



- ① 12" BASE COURSE USING GRADED AGGREGATE (2-6" LIFTS)
(INCIDENTAL TO C&G PAYMENT)
② 2.0" SUPERPAVE ASPHALT MIX 9.5mm SURFACE, PG 64S-22, L2
③ 4.0" SUPERPAVE ASPHALT MIX 19.0mm BASE, PG 64S-22, L2
④ 6.0" GRADED AGGREGATE BASE COURSE
⑤ FULL DEPTH SAWCUT (TYP.)



- ⑥ 2.0" SUPERPAVE ASPHALT MIX 9.5mm
⑦ TOP OF EXISTING PAVEMENT AFTER 2.0" FINE MILLING

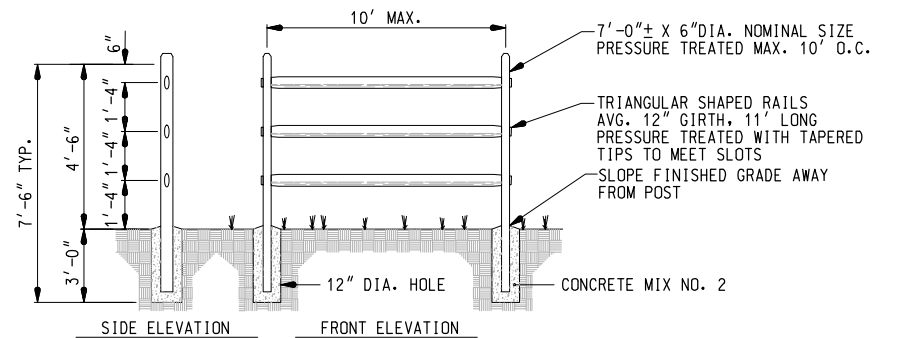


1. CURB & GUTTER TO BE USED WHERE STORM WATER WILL COLLECT AT FACE OF CURB EXCEPT AS DIRECTED BY THE ENGINEER.
2. MIX #2 OR MIX #6 CONCRETE AS DIRECTED ON PLANS.
3. SPECIAL DESIGN AS RETAINING WALL WHERE THIS DIMENSION EXCEEDS 18 INCHES. THIS BARRIER IS FOR USE ONLY IN OFF-STREET AREAS WHERE VEHICLE SPEEDS ARE MINIMAL.

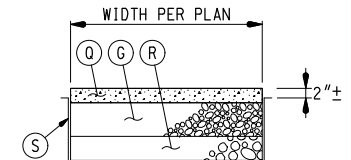
BARRIER CURB DETAIL
NOT TO SCALE

DETAIL 'F' NOTES

- PAVERS SHALL BE WATSON TOWN "GARDEN BLEND" OR APPROVED EQUAL, CLASS SX, TYPE 1, HAVE A COMPRESSIVE STRENGTH OF 10,000 PSI FOR ANY FIVE BLOCK TESTED, SHALL BE CAPABLE OF WITHSTANDING A MIN. OF 100 FREEZE-THAW CYCLES, HAVE AN AVERAGE WATER ABSORPTION RATE OF 4% OR LESS, AND SHALL CONFORM TO ASTM DESIGNATION OF C-902.
- THE BITUMINOUS SETTING SHALL CONSIST OF HOT MIX ASPHALT SUPERPAVE 4.75 MM FOR SURFACE PG58-28 CONFORMING TO AASHTO DESIGNATION M-320.
- A TACK COAT OF 2% NEOPRENE-MODIFIED ASPHALT ADHESIVE SHALL BE USED.
- JOINT FILLER SHALL BE ONE PART PORTLAND CEMENT MIXED WITH THREE PARTS SAND.
- THE 28 DAY COMPRESSIVE STRENGTH FOR THE CONCRETE SUBBASE SHALL BE 3500 PSI.
- PROVIDE 1/2" EXPANSION JOINT WHERE BRICK ABUTS A RIGID STRUCTURE.
- REFER TO MARYLAND SHA SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.



SPLIT RAIL FENCE DETAIL
NOT TO SCALE



PERVIOUS PAVEMENT NOTES

- LOCATIONS PER PLAN.
- SEE SP SECTION XXX "PERVIOUS SIDEWALKS AND BIKE PATHS" FOR MORE INFORMATION.
- ALL RAMPS SHALL BE MIX 3 CONCRETE.

PERVIOUS CONCRETE SIDEWALK/PERVIOUS HMA BIKE PATH DETAIL

- NOT TO SCALE
① 4.0" MIN. PERVIOUS CONCRETE OR
3.0" MIN. HMA SUPERPAVE 19.0MM GAP GRADED
② 2.0" NO. 57 AGGREGATE
③ 6.0" WASHED AASHTO NO. 3 COURSE AGGREGATE
④ PE TYPE 1 GEOTEXTILE

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by : J.D.W.	Drawn by : J.D.W.
Checked by : S.R.R.	

PLAN SHEET DE-01
PAVEMENT DETAILS
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE : NOT TO SCALE 09/2019
Project No. : C.I.P. PR. # 501744 SHEET 05 of 88



PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-01	495+29.11	21.33' RT.	661.41	
PS-01	495+47.30	15.01' RT.	660.85	
PS-01	495+50.00	14.25' RT.	660.73	
PS-01	495+55.28	13.67' RT.	660.61	
PS-01	495+75.00	13.67' RT.	659.59	
PS-01	496+00.00	13.67' RT.	659.27	
PS-01	496+25.00	13.67' RT.	658.54	
PS-01	496+50.00	13.67' RT.	657.88	
PS-01	496+75.00	13.67' RT.	657.43	
PS-01	497+00.00	13.67' RT.	657.28	
PS-01	497+25.00	13.67' RT.	657.35	
PS-01	497+50.00	13.67' RT.	657.51	
PS-01	497+75.00	13.67' RT.	657.76	
PS-01	498+00.00	13.67' RT.	658.06	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-02	498+00.00	13.67' RT.	658.06	
PS-02	498+25.00	13.67' RT.	658.44	
PS-02	498+33.76	13.67' RT.	658.57	
PS-02	498+50.00	18.99' RT.	658.47	
PS-02	498+50.97	20.79' RT.	658.49	
PS-02	498+58.10	38.00' RT.	659.25	
PS-02	498+58.10	47.01' RT.	659.40	
PS-02	498+79.43	49.62' RT.	660.44	
PS-02	498+79.43	38.00' RT.	660.32	
PS-02	498+86.56	20.79' RT.	660.18	
PS-02	499+00.00	13.96' RT.	660.15	
PS-02	499+03.76	13.67' RT.	660.03	
PS-02	499+25.00	13.67' RT.	660.52	
PS-02	499+50.00	13.67' RT.	661.13	
PS-02	499+75.00	13.67' RT.	661.68	
PS-02	500+00.00	13.67' RT.	661.75	
PS-02	500+25.00	13.67' RT.	662.11	
PS-02	500+50.00	13.67' RT.	663.42	
PS-02	500+75.00	13.67' RT.	663.70	
PS-02	501+00.00	13.67' RT.	663.59	
PS-02	501+25.00	13.67' RT.	663.33	
PS-02	501+26.93	13.67' RT.	663.30	
PS-02	501+44.14	20.80' RT.	663.66	
PS-02	501+50.00	29.98' RT.	663.83	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-03	501+50.00	29.98' RT.	663.83	
PS-03	501+51.27	37.92' RT.	664.01	
PS-03	501+51.28	44.03' RT.	664.12	
PS-03	501+78.61	44.07' RT.	664.43	
PS-03	501+78.61	38.00' RT.	664.09	
PS-03	501+85.74	20.79' RT.	662.66	
PS-03	502+00.00	13.84' RT.	661.81	
PS-03	502+02.94	13.67' RT.	661.64	
PS-03	502+25.00	13.67' RT.	661.65	
PS-03	502+50.00	13.67' RT.	661.14	
PS-03	502+75.00	13.67' RT.	659.91	
PS-03	503+00.00	13.67' RT.	659.01	
PS-03	503+20.00	13.67' RT.	658.72	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-04	515+29.85	13.67' RT.	663.29	
PS-04	515+50.00	13.67' RT.	662.23	
PS-04	515+75.00	13.67' RT.	661.05	
PS-04	516+00.00	13.67' RT.	660.01	
PS-04	516+19.00	13.67' RT.	659.23	
PS-04	516+25.00	13.67' RT.	658.99	
PS-04	516+50.00	13.67' RT.	657.97	
PS-04	516+75.00	13.67' RT.	657.09	
PS-04	517+00.00	13.67' RT.	656.21	
PS-04	517+08.15	13.67' RT.	656.01	
PS-04	517+25.00	13.67' RT.	655.49	
PS-04	517+50.00	13.67' RT.	654.77	
PS-04	517+75.00	13.67' RT.	654.23	
PS-04	518+00.00	13.67' RT.	653.82	
PS-04	518+25.00	13.67' RT.	653.52	
PS-04	518+50.00	13.67' RT.	653.34	
PS-04	518+69.97	13.67' RT.	653.22	
PS-04	518+75.00	13.67' RT.	653.23	
PS-04	519+00.00	13.67' RT.	653.33	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-05	519+00.00	13.67' RT.	653.33	
PS-05	519+25.00	13.67' RT.	653.54	
PS-05	519+50.00	13.67' RT.	653.79	
PS-05	519+75.00	13.67' RT.	654.16	
PS-05	520+00.00	13.67' RT.	654.53	
PS-05	520+25.00	13.67' RT.	654.54	
PS-05	520+50.00	13.67' RT.	655.44	
PS-05	520+75.00	13.67' RT.	655.91	
PS-05	521+00.00	13.67' RT.	656.48	
PS-05	521+25.00	13.67' RT.	657.06	
PS-05	521+50.00	13.67' RT.	657.60	
PS-05	521+75.00	13.67' RT.	658.02	
PS-05	521+89.64	13.67' RT.	658.24	
PS-05	522+00.00	13.67' RT.	658.39	
PS-05	522+06.46	13.67' RT.	658.45	
PS-05	522+25.00	13.67' RT.	658.45	
PS-05	522+50.00	13.67' RT.	658.26	
PS-05	522+75.00	13.67' RT.	657.44	
PS-05	522+96.54	13.67' RT.	657.34	
PS-05	523+00.00	13.67' RT.	657.23	
PS-05	523+25.00	13.67' RT.	656.19	
PS-05	523+50.00	13.67' RT.	654.85	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-06	523+50.00	13.67' RT.	654.85	
PS-06	523+75.00	13.67' RT.	653.54	
PS-06	524+00.00	13.67' RT.	652.74	
PS-06	524+03.43	13.67' RT.	652.06	
PS-06	524+25.00	17.56' RT.	650.69	
PS-06	524+50.00	21.83' RT.	649.13	
PS-06	524+74.96	25.86' RT.	647.53	
PS-06	524+96.16	28.34' RT.	646.19	
PS-06	525+00.00	28.61' RT.	645.97	
PS-06	525+17.52	29.17' RT.	644.89	
PS-06	525+25.00	29.17' RT.	644.46	
PS-06	525+50.00	29.17' RT.	643.00	
PS-06	525+75.00	29.17' RT.	641.41	
PS-06	526+00.00	29.17' RT.	639.89	
PS-06	526+02.75	29.17' RT.	639.71	
PS-06	526+25.00	29.17' RT.	638.32	
PS-06	526+50.00	29.17' RT.	636.82	
PS-06	526+75.00	29.17' RT.	635.32	
PS-06	526+87.99	29.17' RT.	634.55	
PS-06	527+00.00	29.17' RT.	634.03	
PS-06	527+10.04	29.17' RT.	633.61	
PS-06	527+15.04	28.84' RT.	633.41	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF CURB OFFSET	EASTBOUND ROADWAY BACK OF CURB ELEVATION	REMARKS
PS-07	528+36.00	28.87' RT.	629.82	
PS-07	528+50.00	28.36' RT.	629.57	
PS-07	528+75.00	27.44' RT.	629.19	
PS-07	529+00.00	26.52' RT.	628.94	
PS-07	529+13.77	26.01' RT.	628.83	
PS-07	529+19.72	25.99' RT.	628.80	
PS-07	529+25.00	26.31' RT.	628.77	
PS-07	529+25.67	26.37' RT.	628.76	
PS-07	529+48.00	28.53' RT.	628.56	
PS-07	529+50.00	28.69' RT.	628.55	
PS-07	529+51.69	28.78' RT.	628.54	
PS-07	529+54.02	28.86' RT.	628.52	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-01	495+34.50	37.62' RT.	661.53	
PS-01	495+36.63	36.12' RT.	661.46	
PS-01	495+50.00	29.44' RT.	661.03	
PS-01	495+50.32	29.33' RT.	661.03	
PS-01	495+65.42	27.00' RT.	660.57	
PS-01	495+60.10	27.00' RT.	660.46	
PS-01	495+73.79	27.26' RT.	660.32	
PS-01	495+75.00	27.42' RT.	660.29	
PS-01	495+78.43	28.05' RT.	660.20	
PS-01	495+84.83	29.13' RT.	660.03	
PS-01	495+91.32	29.50' RT.	659.84	
PS-01	495+94.19	29.50' RT.	659.76	
PS-01	496+00.00	29.21' RT.	659.58	
PS-01	496+00.67	29.13' RT.	659.56	
PS-01	496+07.08	28.05' RT.	659.35	
PS-01	496+11.71	27.26' RT.	659.20	
PS-01	496+16.41	27.00' RT.	659.06	
PS-01	496+25.00	27.00' RT.	658.80	
PS-01	496+48.73	27.00' RT.	658.17	
PS-01	496+50.00	26.98' RT.	658.14	
PS-01	496+58.20	26.22' RT.	657.93	
PS-01	496+67.42	23.91' RT.	657.74	
PS-01	496+74.09	22.23' RT.	657.61	
PS-01	496+75.00	22.09' RT.	657.60	
PS-01	496+80.95	21.67' RT.	657.50	
PS-01	497+00.00	21.67' RT.	657.44	
PS-01	497+25.00	21.67' RT.	657.51	
PS-01	497+50.00	21.67' RT.	657.66	
PS-01	497+75.00	21.67' RT.	657.92	
PS-01	497+93.83	21.67' RT.	658.13	
PS-01	498+00.00	22.12' RT.	658.23	

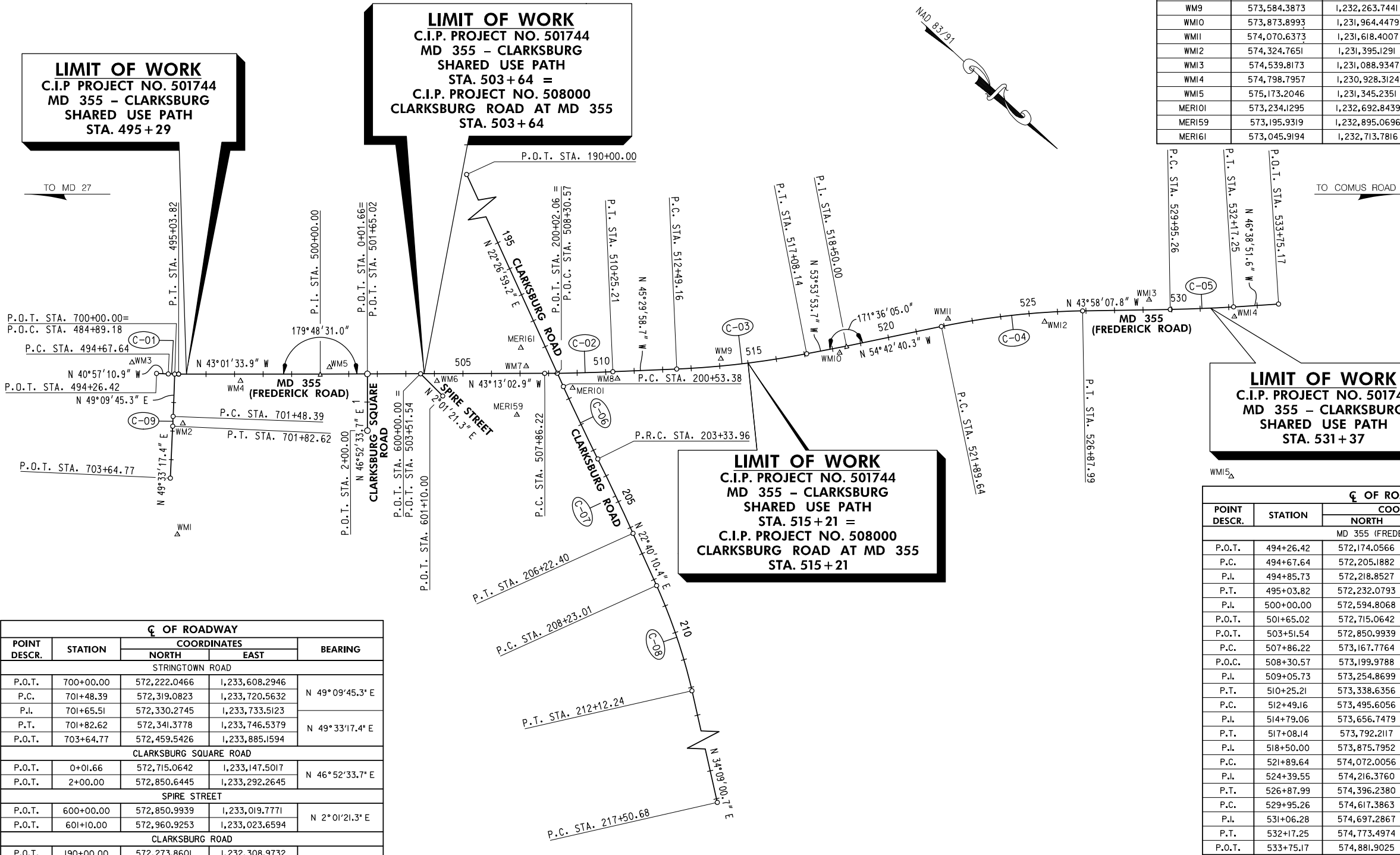
PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-02	498+00.00	22.12' RT.	658.23	
PS-02	498+01.31	22.34' RT.	658.26	
PS-02	498+08.54	24.33' RT.	658.40	
PS-02	498+18.53	27.07' RT.	658.61	
PS-02	498+25.00	27.87' RT.	658.72	
PS-02	498+28.86	28.00' RT.	658.78	
PS-02	498+32.22	28.00' RT.	658.83	
PS-02	498+36.06	27.87' RT.	658.89	
PS-02	498+39.88	27.49' RT.	658.77	
PS-02	498+40.80	27.37' RT.	658.71	
PS-02	498+43.22	27.12' RT.	658.50	
PS-02	498+46.36	27.00' RT.	658.40	
PS-02	498+50.00	27.00' RT.	658.48	
PS-02	498+55.47	27.00' RT.	658.59	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-02	498+82.59	26.00' RT.	659.16	
PS-02	499+00.00	26.00' RT.	660.03	
PS-02	499+25.00	26.00' RT.	660.77	
PS-02	499+31.82	26.00' RT.	660.94	
PS-02	499+39.98	25.35' RT.	661.12	
PS-02	499+47.93	23.44' RT.	661.28	
PS-02	499+50.00	22.83' RT.	661.32	
PS-02	499+53.44	22.11' RT.	661.38	
PS-02	499+59.09	21.67' RT.	661.49	
PS-02	499+62.79	21.67' RT.	661.57	
PS-02	499+68.44	22.11' RT.	661.71	
PS-02	499+73.95	23.44' RT.	661.86	
PS-02	499+75.00	23.77' RT.	661.88	
PS-02	499+81.90	25.35' RT.	662.05	
PS-02	499+90.06	26.00' RT.	662.22	
PS-02	500+00.00	26.00' RT.	662.42	
PS-02	500+25.00	26.00' RT.	663.02	
PS-02	500+50.00	26.00' RT.	663.66	
PS-02	500+75.00	26.00' RT.	663.95	
PS-02	501+00.00	26.00' RT.	663.84	
PS-02	501+25.00	26.00' RT.	663.41	
PS-02	501+25.94	26.00' RT.	663.31	
PS-02	501+36.55	30.39' RT.	663.68	
PS-02	501+40.94	41.00' RT.	664.13	
PS-02	501+40.94	44.00' RT.	664.20	
PS-02	501+39.17	26.00' RT.	663.10	
PS-02	501+48.09	26.00' RT.	662.96	

PLAN SHEET	BASLINE STATION	EASTBOUND ROADWAY BACK OF SHARED USE PATH OFFSET	EASTBOUND ROADWAY BACK OF SHARED USE PATH ELEVATION	REMARKS
PS-03	501+81.78	26.00' RT.	662.00	MIDPOINT OF CURVE
PS-03	501+90.73	26.00' RT.	662.19	
PS-03	501+88.94	44.00' RT.	664.20	
PS-03	501+88.94	41.02' RT.	663.99	
PS-03	501+93.34	30.40' RT.	662.88	
PS-03	502+00.00	26.53' RT.	662.24	
PS-03	502+03.96	26.00' RT.	661.95	
PS-03	502+25.00	26.00' RT.	661.90	
PS-03	502+50.00	26.00' RT.	661.38	
PS-03	502+75.00	26.00' RT.	660.58	
PS-03	503+00.00	26.00' RT.	659.67	
PS-03	503+25.00	26.00' RT.	658.70	
PS-03	503+50.00	26.00' RT.	656.92	
PS-03	503+62.30	26.00' RT.	656.25	


CURVE DATA								
CURVE	BASELINE	DELTA	Dc	RADIUS	TANGENT	LENGTH	CHORD	EXTERNAL
C-01	MD 355 (FREDERICK ROAD)	2°04'23.0" LT.	5°43'55.1"	1,000.00'	18.09'	36.18'	36.18'	0.16'
C-02	MD 355 (FREDERICK ROAD)	2°16'55.8" LT.	0°57'17.8"	6,000.00'	119.51'	238.99'	238.97'	1.19'
C-03	MD 355 (FREDERICK ROAD)	8°23'55.0" LT.	1°49'47.7"	3,131.21'	229.90'	458.98'	458.57'	8.43'
C-04	MD 355 (FREDERICK ROAD)	10°44'32.5" RT.	2°09'20.6"	2,658.00'	249.91'	498.35'	497.62'	11.72'
C-05	MD 355 (FREDERICK ROAD)	2°40'43.8" LT.	1°12'24.3"	4,748.00'	111.02'	221.99'	221.97'	1.30'
C-06	CLARKSBURG ROAD	1°50'45.7" LT.	0°39'28.6"	8,708.41'	140.30'	280.58'	280.57'	1.13'
C-07	CLARKSBURG ROAD	2°03'56.9" RT.	0°42'58.3"	8,000.00'	144.24'	288.44'	288.43'	1.30'
C-08	CLARKSBURG ROAD	11°28'50.3" RT.	2°56'58.6"	1,942.49'	195.27'	389.23'	388.58'	9.79'
C-09	STRINGTOWN ROAD	0°23'32.1" RT.	1°08'45.3"	5,000.00'	17.12'	34.23'	34.23'	0.03'

CONTROL TRAVERSE				
POINT NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTH	EAST		
WM1	572,612.1750	1,234,012.7190	647.365	REBAR & CAP
WM2	572,360.6198	1,233,715.0813	656.216	REBAR & CAP
WM3	572,085.4874	1,233,681.0420	669.500	REBAR & CAP
WM4	572,406.9292	1,233,468.6510	655.793	REBAR & CAP
WM5	572,601.9950	1,233,221.1993	663.426	REBAR & CAP
WM6	572,910.5108	1,232,999.3619	656.127	REBAR & CAP
WM7	573,103.5557	1,232,748.6685	640.521	REBAR & CAP
WM8	573,366.8426	1,232,561.8287	647.495	REBAR & CAP
WM9	573,584.3873	1,232,263.7441	666.701	REBAR & CAP
WM10	573,873.8993	1,231,964.4479	652.919	MAG NAIL
WM11	574,070.6373	1,231,618.4007	658.264	REBAR & CAP
WM12	574,324.7651	1,231,395.1291	642.679	REBAR & CAP
WM13	574,539.8173	1,231,088.9347	626.893	REBAR & CAP
WM14	574,798.7957	1,230,928.3124	636.191	REBAR & CAP
WM15	575,173.2046	1,231,345.2351	657.911	REBAR & CAP
MER101	573,234.1295	1,232,692.8439	640.58	
MER159	573,195.9319	1,232,895.0696	651.80	
MER161	573,045.9194	1,232,713.7816	635.25	



C OF ROADWAY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
STRINGTOWN ROAD				
P.O.T.	700+00.00	572,222.0466	1,233,608.2946	N 49°09'45.3" E
P.C.	701+48.39	572,319.0823	1,233,720.5632	
P.I.	701+65.51	572,330.2745	1,233,733.5123	
P.T.	701+82.62	572,341.3778	1,233,746.5379	N 49°33'17.4" E
P.O.T.	703+64.77	572,459.5426	1,233,885.1594	
CLARKSBURG SQUARE ROAD				
P.O.T.	0+01.66	572,715.0642	1,233,147.5017	N 46°52'33.7" E
P.O.T.	2+00.00	572,850.6445	1,233,292.2645	
SPIRE STREET				
P.O.T.	600+00.00	572,850.9939	1,233,019.7771	N 2°01'21.3" E
P.O.T.	601+10.00	572,960.9253	1,233,023.6594	
CLARKSBURG ROAD				
P.O.T.	190+00.00	572,273.8601	1,232,308.9732	N 22°26'59.2" E
P.O.T.	200+02.06	573,199.9788	1,232,691.6332	
P.C.	200+53.38	573,247.4110	1,232,711.2315	
P.I.	201+93.68	573,377.0795	1,232,764.8088	N 20°36'13.5" E
P.R.C.	203+33.96	573,508.4065	1,232,814.812	
P.I.	204+78.20	573,643.4176	1,232,864.9386	N 22°40'10.4" E
P.T.	206+22.40	573,776.5112	1,232,920.5298	
P.C.	208+23.01	573,961.6211	1,232,997.8474	
P.I.	210+18.28	574,141.8028	1,233,073.1066	N 34°09'00.7" E
P.T.	212+12.24	574,303.4002	1,233,182.7229	
P.C.	217+50.68	573,748.9952	1,233,484.9832	

C OF ROADWAY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
MD 355 (FREDERICK ROAD)				
P.O.T.	494+26.42	572,174.0566	1,233,650.2792	N 40°57'10.9" W
P.C.	494+67.64	572,205.1882	1,233,623.2616	
P.I.	494+85.73	572,218.8527	1,233,611.4029	
P.T.	495+03.82	572,232.0793	1,233,599.0577	N 43°01'33.9" W
P.I.	500+00.00	572,594.8068	1,233,260.4999	
P.O.T.	501+65.02	572,715.0642	1,233,147.5017	N 43°13'02.9" W
P.O.T.	503+51.54	572,850.9939	1,233,019.7771	
P.C.	507+86.22	573,167.7764	1,232,722.1166	
P.O.C.	508+30.57	573,199.9788	1,232,691.6332	N 45°29'58.7" W
P.I.	509+05.73	573,254.8699	1,232,640.2803	
P.T.	510+25.21	573,338.6356	1,232,555.0408	
P.C.	512+49.16	573,495.6056	1,232,395.3090	N 53°53'53.7" W
P.I.	514+79.06	573,656.7479	1,232,231.3315	
P.T.	517+08.14	573,792.2117	1,232,045.5762	
P.I.	518+50.00	573,875.7952	1,231,930.9620	N 54°42'40.3" W
P.C.	521+89.64	574,072.0056	1,231,653.7294	
P.I.	524+39.55	574,216.3760	1,231,449.7432	
P.T.	526+87.99	574,396.2380	1,231,276.2415	N 43°58'07.8" W
P.C.	529+95.26	574,617.3863	1,231,062.9135	
P.I.	531+06.28	574,697.2867	1,230,985.8387	
P.T.	532+17.25	574,773.4974	1,230,905.1137	N 46°38'51.6" W
P.O.T.	533+75.17	574,881.9025	1,230,790.2873	



**WALLACE
MONTGOMERY**
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.WallaceMontgomery.com


A Limited Liability Partnership

200' 0 200' 400'
SCALE: 1" = 200'

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Engineering Services

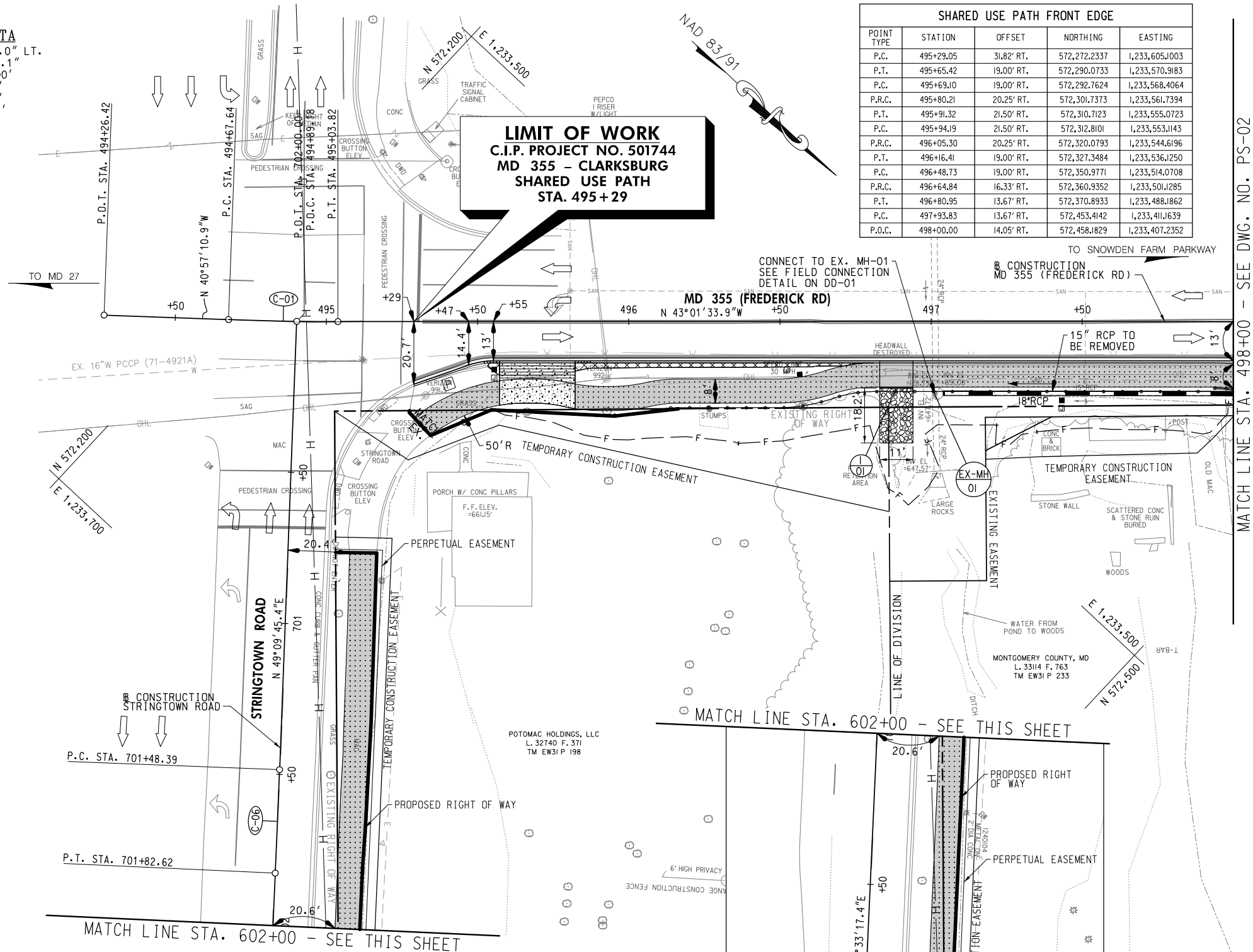
Designed by : J.D.W. Drawn by : J.D.W. Checked by : S.R.R.

PLAN SHEET GS-01
GEOMETRY LAYOUT
**MD 355 - CLARKSBURG
SHARED USE PATH**

SCALE: 1"= 200'

Project No. : C.I.P. PR. # 501744 SHEET 0 of 88

C-01
CURVE DATA
DELTA = 2°04'23.0" LT.
Dc = 5°43'55.1"
R = 1,000.00'
L = 36.18'
T = 18.09'
CH = 36.18'
E = 0.16'



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

LEGEND	
	SHARED USE PATH
	PERMEABLE PAVEMENT
	FULL DEPTH PAVEMENT
	GRINDING & ASPHALT RESURFACING
	CONCRETE DRIVEWAY
	PAVEMENT REMOVAL
	RIPRAP
	TOP OF CUT
	TOE OF FILL
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	CONSTRUCTION
	SPLIT RAIL FENCE
	TRAFFIC BARRIER
	CLARKSBURG HISTORIC DISTRICT BOUNDARY
	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	STORM DRAIN SYMBOLS
	INLET
	MANHOLE
	END WALL

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	495+29.05	31.82' RT.	572,272.2337	1,233,605.1003
P.T.	495+65.42	19.00' RT.	572,290.0733	1,233,570.9183
P.C.	495+69.10	19.00' RT.	572,292.7624	1,233,568.4064
P.R.C.	495+80.21	20.25' RT.	572,301.7373	1,233,561.7394
P.T.	495+91.32	21.50' RT.	572,310.7123	1,233,555.0723
P.C.	495+94.19	21.50' RT.	572,312.8101	1,233,553.1143
P.R.C.	496+05.30	20.25' RT.	572,320.0793	1,233,544.6196
P.T.	496+16.41	19.00' RT.	572,327.3484	1,233,536.1250
P.C.	496+48.73	19.00' RT.	572,350.9771	1,233,514.0708
P.R.C.	496+64.84	16.33' RT.	572,360.9352	1,233,501.1285
P.T.	496+80.95	13.67' RT.	572,370.8933	1,233,488.1862
P.C.	497+93.83	13.67' RT.	572,453.4142	1,233,411.1639
P.O.C.	498+00.00	14.05' RT.	572,458.1829	1,233,407.2352

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

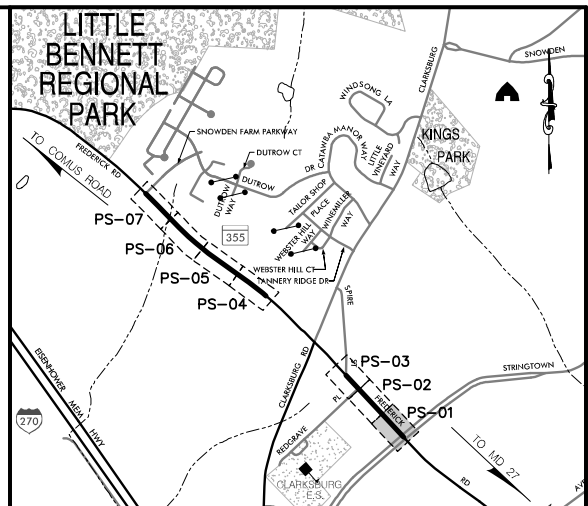
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.



LOCATION MAP
SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

272 L.F. MD 355 (FREDERICK ROAD) - STA. 495+29 TO STA. 498+00, RT.

SPLIT RAIL FENCE

216 L.F. MD 355 (FREDERICK ROAD) - STA. 495+85 TO STA. 498+00, RT.

REMOVAL OF EXISTING PAVEMENT

1 C.Y. MD 355 (FREDERICK ROAD) - STA. 495+53 TO STA. 495+57, RT.
5 C.Y. MD 355 (FREDERICK ROAD) - STA. 495+82 TO STA. 496+81, RT.

REMOVAL OF EXISTING MASONRY

1 C.Y. MD 355 (FREDERICK ROAD) - STA. 496+90, RT. (EXISTING HEADWALL)

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION

22 S.Y. MD 355 (FREDERICK ROAD) - STA. 496+89, RT.

BARRIER CURB (SEE DWG. NO. TS-01)

6 L.F. MD 355 (FREDERICK ROAD) - STA. 497+94 TO STA. 498+00, RT.

PLAN SHEET PS-01
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 495+29 TO STA. 498+00
SCALE 1"=20'

Project No.: C.I.P. PR. # 501744 SHEET 08 of 88 09/2019

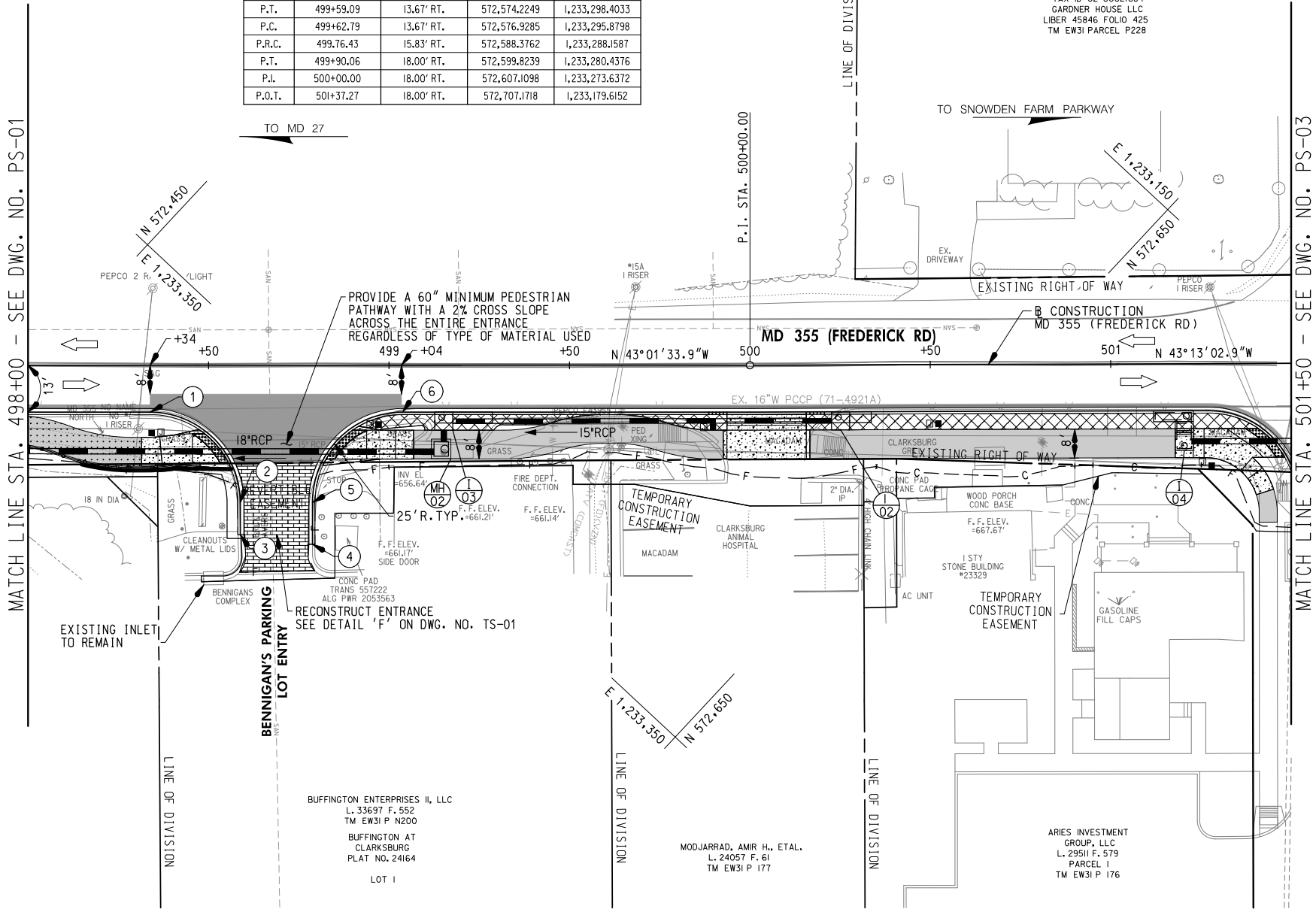
WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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PLT: 9/16/2019
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BENNIGAN'S ENTRANCE WORKING POINTS				
CONTROL POINT	STATION	NORTHING	EASTING	OFFSET
1	498+33.76	572,482.1489	1,233,383.4319	13.00' RT.
2	498+58.76	572,517.4833	1,233,384.6497	38.00' RT.
3	498+58.76	572,523.6301	1,233,391.2354	47.01' RT.
4	498+78.76	572,540.0332	1,233,379.4982	49.62' RT.
5	498+78.76	572,532.1042	1,233,371.0031	38.00' RT.
6	499+03.76	572,533.3220	1,233,335.6687	13.00' RT.

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	498+00.00	14.05' RT.	572,458.1829	1,233,407.2352
P.R.C.	498+11.34	16.83' RT.	572,468.3765	1,233,401.5304
P.T.	498+28.86	20.00' RT.	572,483.3384	1,233,391.8970
P.C.	498+32.22	20.00' RT.	572,485.7967	1,233,389.6026
P.T.	498+38.83	19.56' RT.	572,490.3283	1,233,384.7730
P.C.	498+39.75	19.44' RT.	572,490.9178	1,233,384.0548
P.T.	498+45.51	19.01' RT.	572,494.8371	1,233,379.8064
P.O.T.	498+93.82	18.00' RT.	572,529.4680	1,233,346.1054
P.C.	499+31.82	18.00' RT.	572,557.2429	1,233,320.1813
P.R.C.	499+45.45	15.83' RT.	572,565.7339	1,233,309.2923
P.T.	499+59.09	13.67' RT.	572,574.2249	1,233,298.4033
P.C.	499+62.79	13.67' RT.	572,576.9285	1,233,295.8798
P.R.C.	499.76.43	15.83' RT.	572,588.3762	1,233,288.1587
P.T.	499+90.06	18.00' RT.	572,599.8239	1,233,280.4376
P.L.	500+00.00	18.00' RT.	572,607.1098	1,233,273.6372
P.O.T.	501+37.27	18.00' RT.	572,707.1718	1,233,179.6152

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER LINE (WSSC)	498+21 TO 500+57	11' RT. TO 11' RT.	RELOCATE BY OTHERS
WATER VALVE (WSSC)	499+45	15' RT.	RELOCATE BY OTHERS
WATER HOUSE CONNECTION (WSSC)	499+55	15' RT.	RELOCATE BY OTHERS
FIRE HYDRANT (WSSC)	499+65	18' RT.	RELOCATE BY OTHERS
WATER HOUSE CONNECTION (WSSC)	500+36	18' RT.	RELOCATE BY OTHERS
CURB STOP (WSSC)	500+80	21' RT.	ADJUST TO GRADE



- NOTES:
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 3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

SHARED USE PATH

PERMEABLE PAVEMENT

FULL DEPTH PAVEMENT

GRINDING & ASPHALT RESURFACING

CONCRETE DRIVEWAY

PAVEMENT REMOVAL

RIPRAP

1

C

4

TOP OF CUT

F

1

TOE OF FILL

• • • •

WETLAND

B

WETLAND BUFFER

WUS

WATERS OF THE US

102

+50

CONSTRUCTION

SPLIT RAIL FENCE

TRAFFIC BARRIER

H

CLARKSBURG HISTORIC DISTRICT BOUNDARY

PEDESTRIAN LIGHT POLE AND JUNCTION BOX

PIPE

INLET

END SECTION

STD. MANHOLE

STORM DRAIN SYMBOLS

ENDWALL

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY

DEPARTMENT OF TRANSPORTATION

100 EDISON PARK DRIVE, 4TH FLOOR

GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section

APPROVED

Chief, Division of Engineering Services

DESIGNED BY: J.D.W.

DRAWN BY: J.D.W.

CHECKED BY: S.R.R.

Date

Date

Date

PLAN SHEET PS-02 ROADWAY PLANS MD 355 - CLARKSBURG SHARED USE PATH STA. 498+00 TO STA. 501+50

SCALE 1"=20'
Project No.: C.I.P. PR. # 501744 SHEET 09 of 88
09/2019

WALLACE MONTGOMERY

ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS

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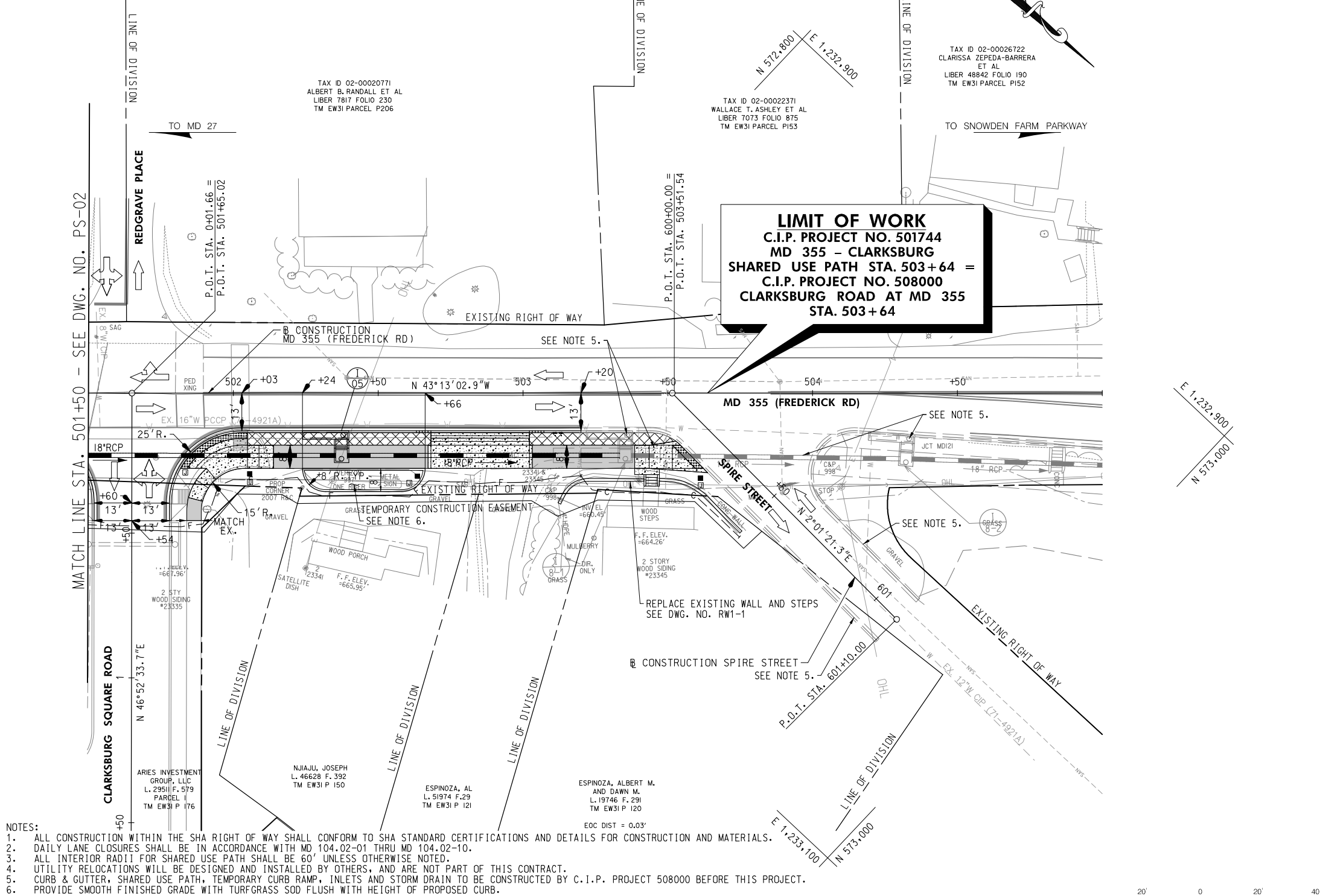
A Limited Liability Partnership

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43

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	501+86.94	26.00' RT.	572,748.8475	1,233,151.4328
P.T.	502+02.94	18.00' RT.	572,755.0295	1,233,134.6463
P.O.T.	503+54.36	18.00' RT.	572,865.3776	1,233,030.9593

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER METER (WSSC)	503+39	30' RT.	RELOCATE BY OTHERS



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 3. ALL INTERIOR RADIUS FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 5. CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 6. PROVIDE SMOOTH FINISHED GRADE WITH TURFGRASS SOD FLUSH WITH HEIGHT OF PROPOSED CURB.

LEGEND	
	SHARED USE PATH
	PERMEABLE PAVEMENT
	FULL DEPTH PAVEMENT
	GRINDING & ASPHALT RESURFACING
	CONCRETE DRIVEWAY
	PAVEMENT REMOVAL
	RIPRAP
	TOP OF CUT
	TOE OF FILL
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	CONSTRUCTION
	SPLIT RAIL FENCE
	TRAFFIC BARRIER
	CLARKSBURG HISTORIC DISTRICT BOUNDARY
	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
	PIPE INLET
	STORM DRAIN
	MANHOLE
	ENDWALL

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

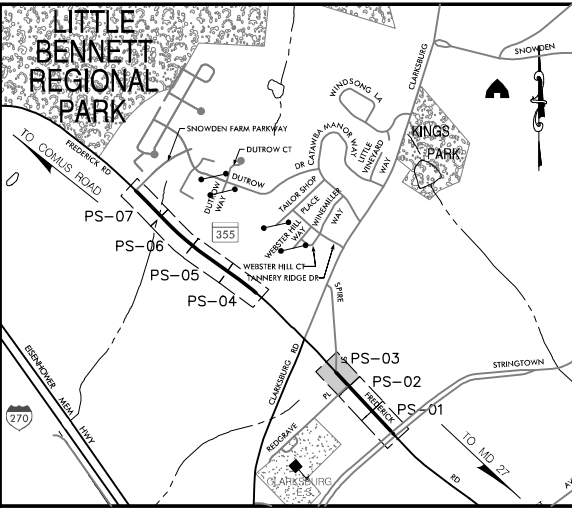


MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by: J.D.W.	Drawn by: J.D.W.
Checked by: S.R.R.	

PLAN SHEET PS-03 ROADWAY PLANS MD 355 - CLARKSBURG SHARED USE PATH STA. 501+50 TO STA. 505+00

SCALE: 1" = 20'
Project No.: C.I.P. PR. # 501744 SHEET 10 of 88 09/2019



LOCATION MAP SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

16 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+50 TO STA. 501+52, RT.
162 L.F.	MD 355 (FREDERICK ROAD) - STA. 501+78 TO STA. 503+20, RT.

STANDARD TYPE 'A' CURB (MD 620.02)

94 L.F.	MD 355 (FREDERICK ROAD) - STA. 502+24 TO STA. 502+66, RT.
---------	---

REMOVAL OF EXISTING PAVEMENT

10 C.Y.	MD 355 (FREDERICK ROAD) - STA. 502+05 TO STA. 502+68, RT.
8 C.Y.	MD 355 (FREDERICK ROAD) - STA. 503+02 TO STA. 503+51, RT.

DETECTABLE WARNING SURFACE FOR CURB RAMPS
(MD 655.40)

60 S.F.	MD 355 (FREDERICK ROAD) - STA. 501+92, RT.
21 S.F.	MD 355 (FREDERICK ROAD) - STA. 503+58, RT.

SIDEWALK RAMP CONSTRUCTION

MD 355 (FREDERICK ROAD) - STA. 501+92, RT.	MD 655.13
MD 355 (FREDERICK ROAD) - STA. 503+58, RT.	MD 655.11

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT
FOR DRIVEWAY MIX NO. 9 (MD 630.02)

48 S.Y.	MD 355 (FREDERICK ROAD) - STA. 502+68 TO STA. 503+02, RT.
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RELOCATE MAILBOX

2 EA.	MD 355 (FREDERICK ROAD) - STA. 503+11, RT.
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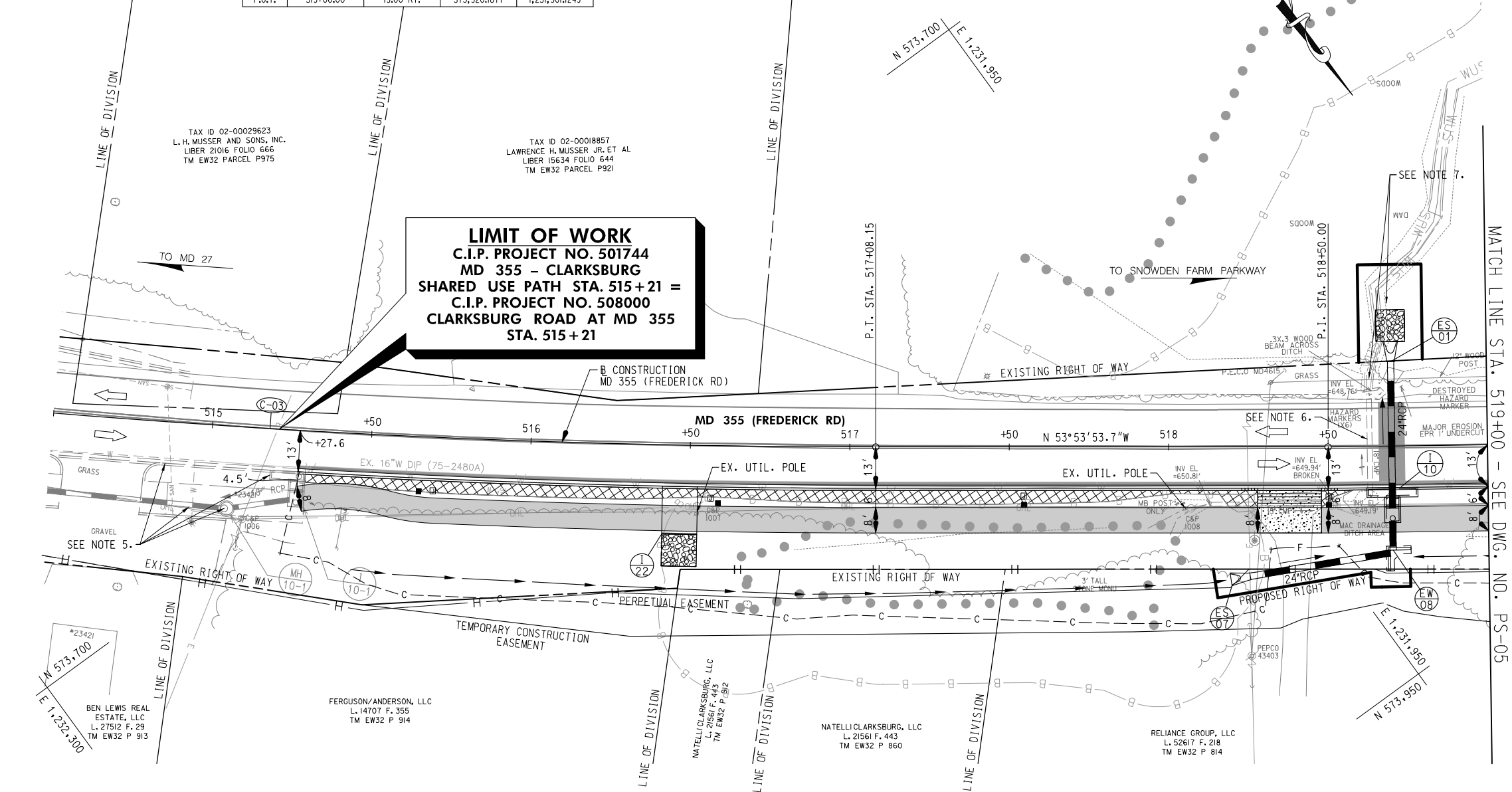
CONCRETE STEPS (MD 657.00)

1 C.Y.	MD 355 (FREDERICK ROAD) - STA. 503+44, RT.
--------	--

C-03
CURVE DATA
DELTA = 8°23'55.0" LT.
Dc = 1°49'47.7"
R = 3,131.21'
L = 458.98'
T = 229.90'
CH = 458.98'
E = 8.43'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.C.	515+27.58	17.52' RT.	573,695.2089	1,232,199.4379
P.R.C.	515+56.56	17.52' RT.	573,713.6047	1,232,176.8347
P.C.C.	515+69.87	19.00' RT.	573,723.1358	1,232,167.3279
P.T.	517+08.15	19.00' RT.	573,807.5622	1,232,056.7704
P.L	518+50.00	19.00' RT.	573,891.2251	1,231,942.0473
P.O.T.	519+00.00	19.00' RT.	573,920.1877	1,231,901.1249

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER LINE (WSSC)	518+27 TO 518+70	12' RT. TO 12' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	518+27	29' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	516+52	21' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	518+05	19' RT.	RELOCATE BY OTHERS



- NOTES:
- ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 - DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 - ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 - UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.
 - CURB & GUTTER, SHARED USE PATH, TEMPORARY CURB RAMP, INLETS, MANHOLE AND STORM DRAIN TO BE CONSTRUCTED BY C.I.P. PROJECT 508000 BEFORE THIS PROJECT.
 - ABANDON EXISTING 18" CMP STORM DRAIN USING FLOWABLE BACKFILL.
 - REGRADE EXISTING CHANNEL. REFER TO RIPRAP CHANNEL DETAIL ON DD-01 AND GRADING ON SC-07.

LEGEND	
	SHARED USE PATH
	PERMEABLE PAVEMENT
	FULL DEPTH PAVEMENT
	GRINDING & ASPHALT RESURFACING
	CONCRETE DRIVEWAY
	PAVEMENT REMOVAL
	RIPRAP
	SPLIT RAIL FENCE
	TRAFFIC BARRIER
	CLARKSBURG HISTORIC DISTRICT BOUNDARY
	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	BASE MOUNTED METERED SERVICE PEDESTAL WITH PHOTOCELL
	PIPE INLET
	STORM DRAIN SYMBOLS
	END SECTION
	STD. MANHOLE
	ENDWALL
	TOP OF CUT
	TOE OF FILL
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	CONSTRUCTION

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL
Chief, Design Section
APPROVED

Date

Chief, Division of Engineering Services

Date

Designed by: J.D.W.

Drawn by: J.D.W.

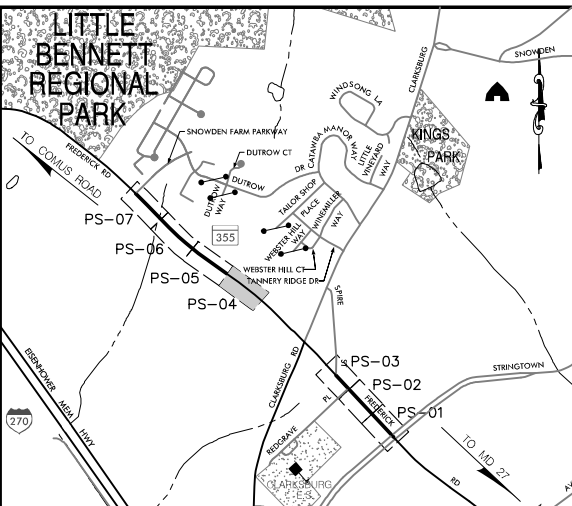
Checked by: S.R.R.

PLAN SHEET PS-04 ROADWAY PLANS MD 355 - CLARKSBURG SHARED USE PATH

STA. 514+50 TO STA. 519+00

SCALE: 1"= 20'

Project No.: C.I.P. PR. # 501744 SHEET 11 of 88



LOCATION MAP

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

371 L.F. MD 355 (FREDERICK ROAD) - STA. 515+28 TO STA. 519+00, RT.

REMOVAL OF EXISTING PAVEMENT

38 C.Y. MD 355 (FREDERICK ROAD) - STA. 515+30 TO STA. 518+28, RT.
1 C.Y. MD 355 (FREDERICK ROAD) - STA. 518+48 TO STA. 518+57, RT.

8 INCH PORTLAND CEMENT CONCRETE PAVEMENT FOR DRIVEWAY MIX NO. 9 (MD 630.02)

34 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+28 TO STA. 518+48, RT.

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION

10 S.Y. MD 355 (FREDERICK ROAD) - STA. 518+70, LT.
12 S.Y. MD 355 (FREDERICK ROAD) - STA. 516+47, RT.

FLOWABLE BACKFILL FOR PIPE ABANDONMENT

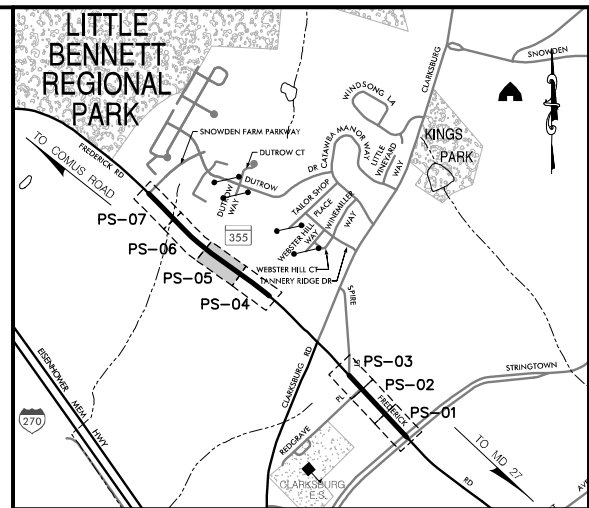
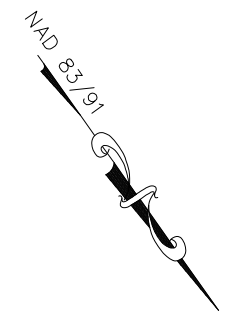
2 C.Y. MD 355 (FREDERICK ROAD) - STA. 518+63, 15' RT. TO 17' LT.

C-04

CURVE DATA
DELTA = 10°44'32.5" RT.
Dc = 2°09'20.6"
R = 2,658.00'
L = 498.35'
T = 249.91'
CH = 497.62'
E = 11.72'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.T.	519+00.00	19.00' RT.	573,920.1877	1,231,901.249
P.C.	519+35.10	19.00' RT.	573,940.4648	1,231,872.4747
P.R.C.	519+49.21	20.43' RT.	573,949.7856	1,231,861.7906
P.R.C.	519+73.39	20.43' RT.	573,963.7548	1,231,842.0531
P.T.	519+87.49	19.00' RT.	573,970.7314	1,231,829.7100
P.C.	520+80.82	19.00' RT.	574,024.6498	1,231,753.5268
P.R.C.	520+89.91	19.69' RT.	574,030.4652	1,231,746.5084
P.T.	521+00.52	20.50' RT.	574,037.2498	1,231,738.3202
P.C.	521+08.02	20.50' RT.	574,041.5826	1,231,732.1984
P.R.C.	521+18.62	19.69' RT.	574,047.0486	1,231,723.0770
P.T.	521+27.71	19.00' RT.	574,051.7338	1,231,715.2587
P.C.	521+59.64	19.00' RT.	574,087.5132	1,231,664.7048
P.R.C.	522+61.83	19.00' RT.	574,129.7094	1,231,606.7691
P.R.C.	522+74.53	17.63' RT.	574,136.1991	1,231,595.8730
P.C.C.	522+89.62	16.00' RT.	574,143.9834	1,231,582.9576
P.O.C.	523+50.00	16.00' RT.	574,181.0132	1,231,535.7227

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
FIRE HYDRANT (WSSC)	519+55	21' RT.	RELOCATE BY OTHERS
WATER HOUSE CONNECTION (WSSC)	520+25	16' RT.	RELOCATE BY OTHERS
WATER METER (WSSC)	520+25	27' RT.	RELOCATE BY OTHERS



LOCATION MAP
SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,
12 INCH UTILITY PAN, 8 INCH MIN. DEPTH (MD 620.02)
449 L.F. MD 355 (FREDERICK ROAD) - STA. 519+00 TO STA. 523+50, RT.

REMOVAL OF EXISTING PAVEMENT
9 C.Y. MD 355 (FREDERICK ROAD) - STA. 519+52 TO STA. 520+11, RT.
1 C.Y. MD 355 (FREDERICK ROAD) - STA. 520+41 TO STA. 520+47, RT.

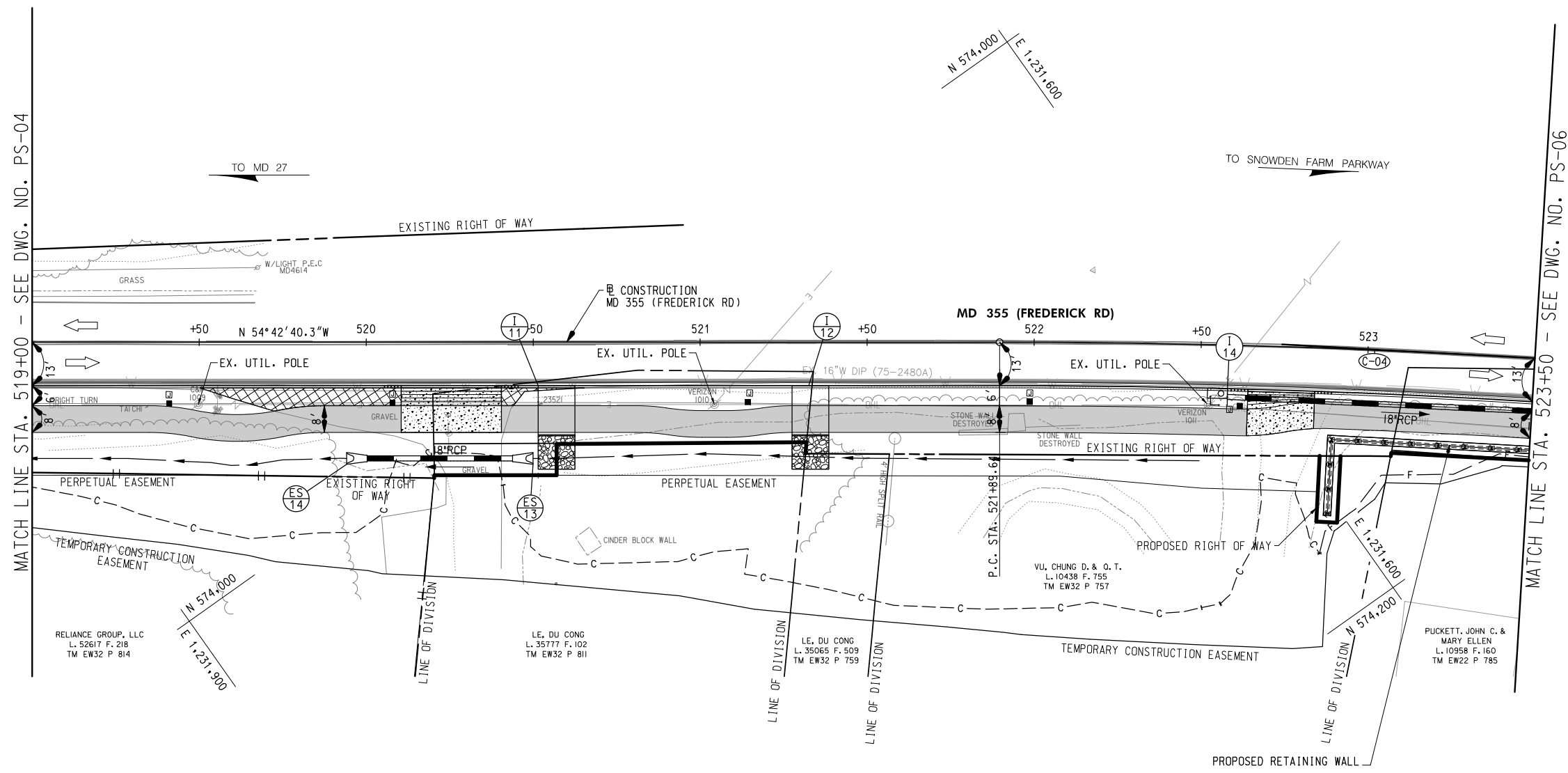
8 INCH PORTLAND CEMENT CONCRETE PAVEMENT
FOR DRIVEWAY MIX NO. 9 (MD 630.02)
51 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+11 TO STA. 520+41, RT.
34 S.Y. MD 355 (FREDERICK ROAD) - STA. 522+64 TO STA. 522+84, RT.

REMOVAL OF EXISTING MASONRY
4 C.Y. MD 355 (FREDERICK ROAD) - STA. 521+90, RT. (STONE WALL)

RELOCATE MAILBOX
1 EA. MD 355 (FREDERICK ROAD) - STA. 520+44, RT.

REMOVE EXISTING FENCE
32 L.F. MD 355 (FREDERICK ROAD) - STA. 521+56 TO STA. 521+58, RT.

CLASS I RIPRAP FOR SLOPE AND CHANNEL PROTECTION
12 S.Y. MD 355 (FREDERICK ROAD) - STA. 520+57, RT.
12 S.Y. MD 355 (FREDERICK ROAD) - STA. 521+33, RT.



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 3. ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

SHARED USE PATH

PERMEABLE PAVEMENT

FULL DEPTH PAVEMENT

GRINDING & ASPHALT RESURFACING

CONCRETE DRIVEWAY

PAVEMENT REMOVAL

RIPRAP

LEGEND

1' C 4' TOP OF CUT

1' F 1' TOE OF FILL

• • • • • WETLAND

— B — WETLAND BUFFER

— WUS — WATERS OF THE US

102 +50

CONSTRUCTION

SPLIT RAIL FENCE

TRAFFIC BARRIER

CLARKSBURG HISTORIC DISTRICT BOUNDARY

PEDESTRIAN LIGHT POLE AND JUNCTION BOX

PIPE INLET

END SECTION

STD. MANHOLE

STORM DRAIN SYMBOLS

ENDWALL

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

Date

Date

S.R.R.

PLAN SHEET PS-05
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 519+00 TO STA. 523+50
SCALE: 1"= 20'

09/2019

12 of 88

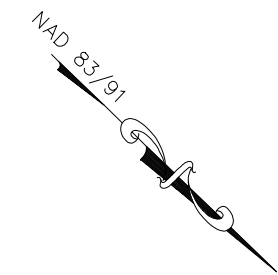
WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.wallacemontgomery.com

C-04

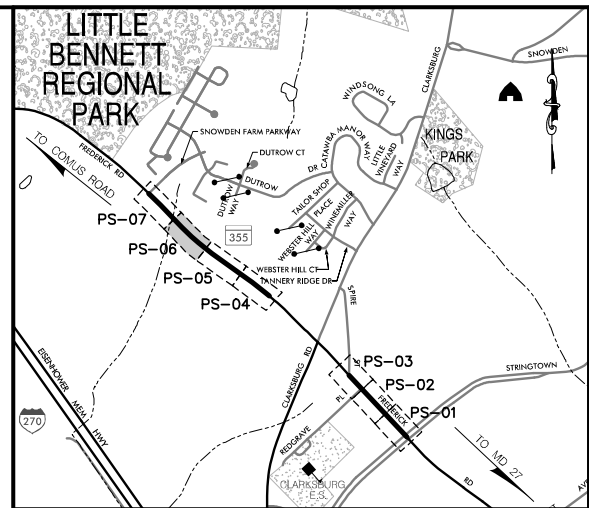
CURVE DATA
DELTA = 10°44'32.5" RT.
Dc = 2°09'20.6"
R = 2,658.00'
L = 498.35'
T = 249.91'
CH = 497.62'
E = 11.72'

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	523+50.00	16.00' RT.	574,181.0132	1,231,535.7227
P.C.C.	523+80.32	16.00' RT.	574,200.0082	1,231,512.3262
P.T.	523+93.40	17.22' RT.	574,209.2231	1,231,503.0813
P.C.	524+44.79	26.37' RT.	574,249.1345	1,231,470.0806
P.R.C.	524+61.94	31.47' RT.	574,264.1040	1,231,460.6110
P.C.C.	525+01.39	39.67' RT.	574,296.0701	1,231,436.9404
P.T.	526+87.99	39.67' RT.	574,423.7763	1,231,304.7893
P.C.	527+88.85	39.67' RT.	574,496.3689	1,231,234.7637
P.O.C.	528+00.00	38.62' RT.	574,503.6670	1,231,226.2721

UTILITY ADJUSTMENTS			
UTILITY	STATION	OFFSET	REMARKS
WATER HOUSE CONNECTION (WSSC)	523+80	12' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+11	21' RT.	RELOCATE BY OTHERS
UTILITY POLE (VERIZON)	524+87	28' RT.	RELOCATE BY OTHERS



N 574+200
E 1,231,300



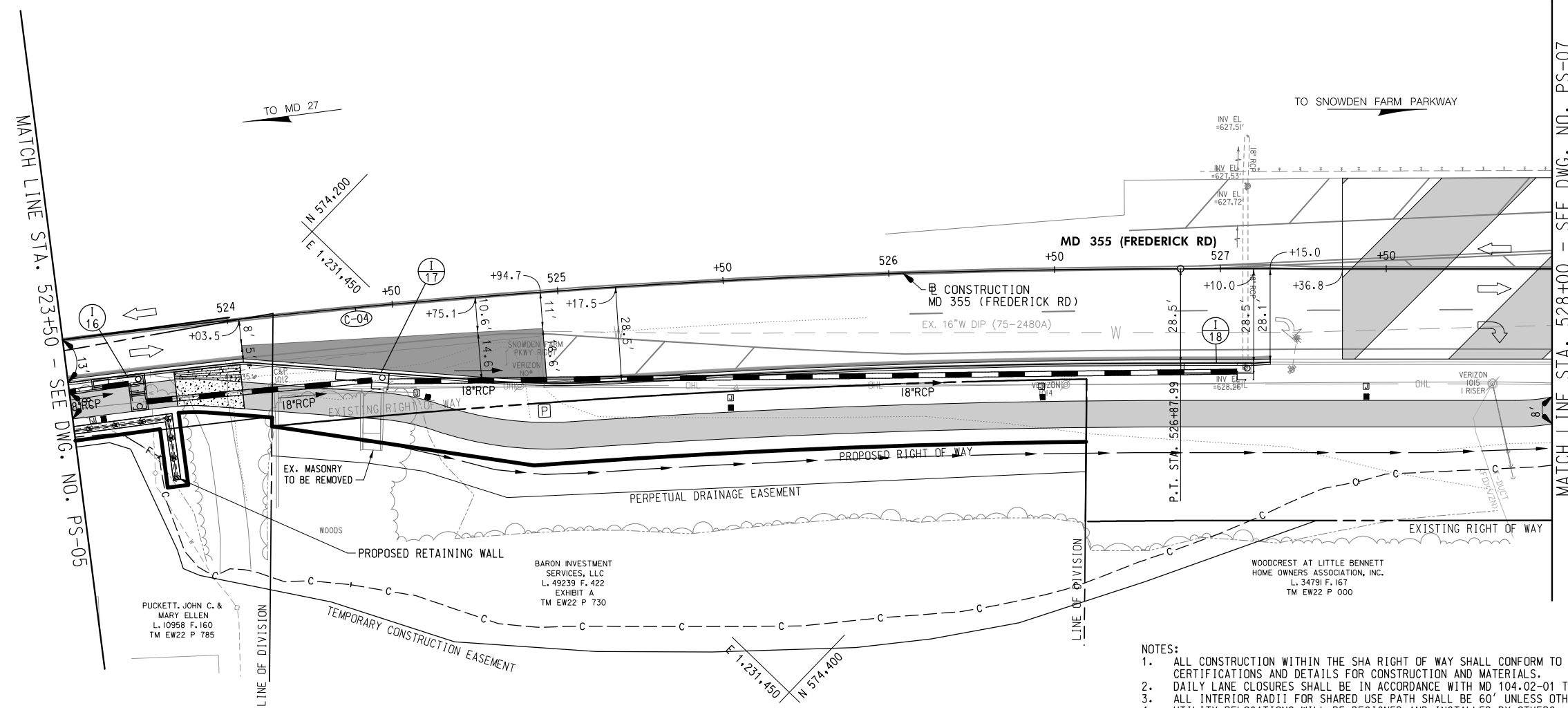
LOCATION MAP
SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,
12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)
364 L.F. MD 355 (FREDERICK ROAD) - STA. 523+50 TO STA. 527+15, RT.

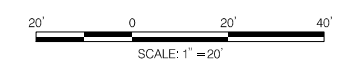
8 INCH PORTLAND CEMENT CONCRETE PAVEMENT
FOR DRIVEWAY MIX NO. 9 (MD 630.02)
39 S.Y. MD 355 (FREDERICK ROAD) - STA. 523+79 TO STA. 523+99, RT.

REMOVAL OF EXISTING MASONRY
20 C.Y. MD 355 (FREDERICK ROAD) - STA. 524+09 TO STA. 524+55, RT.
(STONE WALL AND STEPS)

RELOCATE MAILBOX
1 EA. MD 355 (FREDERICK ROAD) - STA. 524+03, RT.



- NOTES:
1. ALL CONSTRUCTION WITHIN THE SHA RIGHT OF WAY SHALL CONFORM TO SHA STANDARD CERTIFICATIONS AND DETAILS FOR CONSTRUCTION AND MATERIALS.
 2. DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
 3. ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
 4. UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.



LEGEND

— C — TOP OF CUT

— F — TOE OF FILL

• • • • • WETLAND

— B — WETLAND BUFFER

— WUS — WATERS OF THE US

102 +50

CONSTRUCTION

— SPLIT RAIL FENCE

— TRAFFIC BARRIER

— CLARKSBURG HISTORIC DISTRICT BOUNDARY

— PEDESTRIAN LIGHT POLE AND JUNCTION BOX

PIPE INLET END SECTION

STD. MANHOLE

STORM DRAIN SYMBOLS

ENDWALL

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.wallacemontgomery.com

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Chief, Division of Engineering Services

Designed by: J.D.W. Drawn by: J.D.W. Checked by: S.R.R.

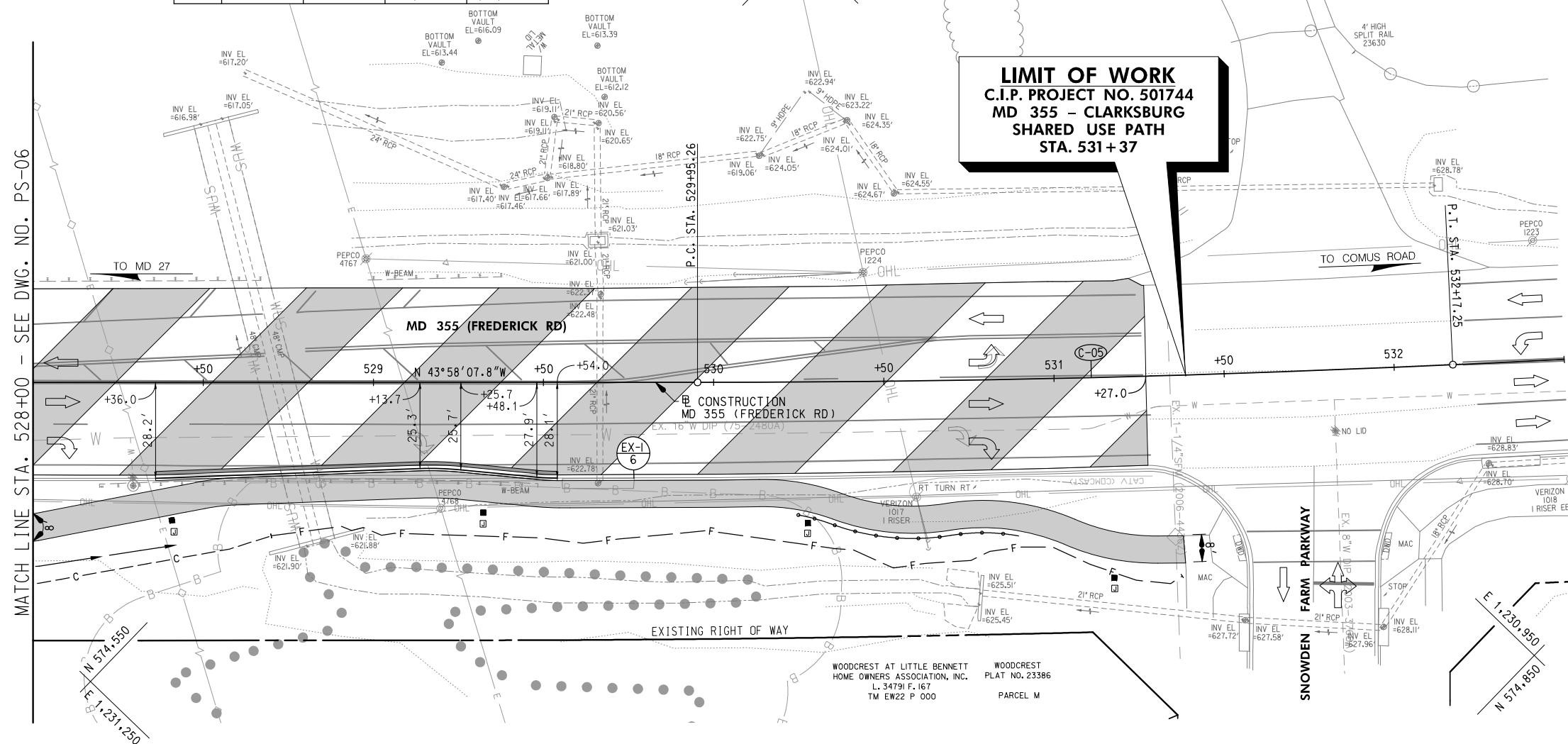
PLAN SHEET PS-06
ROADWAY PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 523+50 TO STA. 528+00
SCALE: 1"= 20'

Project No.: C.I.P. PR. # 501744 SHEET 13 of 88

C-05

CURVE DATA
 $\Delta = 2^\circ 40' 43.9''$ LT.
 $D_c = 1^\circ 12' 24.3''$
 $R = 4,748.00'$
 $L = 221.99'$
 $T = 111.02'$
 $CH = 221.97'$
 $E = 1.30'$

SHARED USE PATH FRONT EDGE				
POINT TYPE	STATION	OFFSET	NORTHING	EASTING
P.O.C.	528+00.00	38.62' RT.	574,503.6670	1,231,226.2721
P.T.	528+00.17	38.59' RT.	574,503.7691	1,231,226.1276
P.C.	528+49.10	29.19' RT.	574,532.4572	1,231,185.3909
P.T.	528+59.44	28.01' RT.	574,539.0779	1,231,177.3709
P.C.	529+13.77	26.01' RT.	574,576.7931	1,231,138.2140
P.T.	529+25.67	26.37' RT.	574,585.6084	1,231,130.2061
P.C.	529+48.33	28.57' RT.	574,603.4436	1,231,116.0548
P.T.	529+54.32	28.85' RT.	574,607.9504	1,231,112.0961
P.L.	530+01.20	28.69' RT.	574,641.6046	1,231,079.4135
P.C.	530+13.29	28.56' RT.	574,650.2415	1,231,070.8483
P.R.C.	530+37.51	32.88' RT.	574,670.6976	1,231,056.9078
P.R.C.	530+67.65	36.14' RT.	574,694.5849	1,231,037.8882
P.R.C.	531+05.11	41.51' RT.	574,725.0592	1,231,014.9417
P.T.	531+29.06	47.01' RT.	574,745.9429	1,231,001.5796
P.O.T.	531+36.60	47.16' RT.	574,751.3704	1,230,996.2392



NOTES:

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- DAILY LANE CLOSURES SHALL BE IN ACCORDANCE WITH MD 104.02-01 THRU MD 104.02-10.
- ALL INTERIOR RADII FOR SHARED USE PATH SHALL BE 60' UNLESS OTHERWISE NOTED.
- UTILITY RELOCATIONS WILL BE DESIGNED AND INSTALLED BY OTHERS, AND ARE NOT PART OF THIS CONTRACT.

	SHARED USE PATH
	PERMEABLE PAVEMENT
	FULL DEPTH PAVEMENT
	GRINDING & ASPHALT RESURFACING
	CONCRETE DRIVEWAY
	PAVEMENT REMOVAL
	RIPRAP

LEGEND

	TOP OF CUT
	TOE OF FILL
	WETLAND
	WETLAND BUFFER
	WATERS OF THE US
	CONSTRUCTION

	SPLIT RAIL FENCE
	TRAFFIC BARRIER
	CLARKSBURG HISTORIC DISTRICT BOUNDARY
	PEDESTRIAN LIGHT POLE AND JUNCTION BOX
	STORM DRAIN SYMBOLS
	PIPE INLET
	END SECTION
	STD. MANHOLE
	ENDWALL

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
 NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
 DEPARTMENT OF TRANSPORTATION
 100 EDISON PARK DRIVE, 4TH FLOOR
 GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section

Date

Chief, Division of Engineering Services

Date

Designed by: J.D.W.

Drawn by: J.D.W.

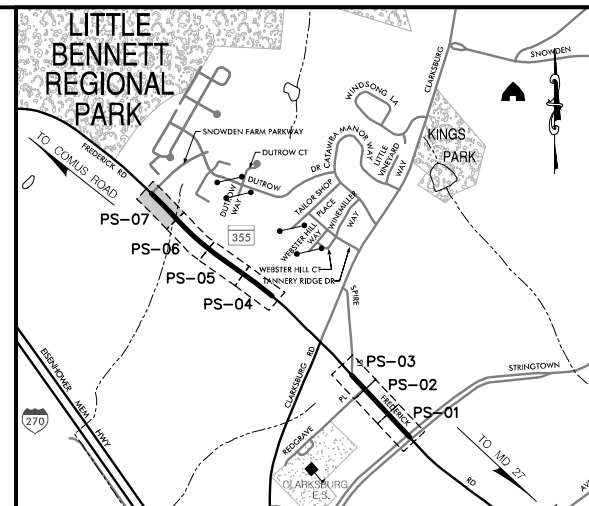
Checked by: S.R.R.

PLAN SHEET PS-07
 ROADWAY PLANS
MD 355 - CLARKSBURG
 SHARED USE PATH

STA. 528+00 TO STA. 531+37

SCALE: 1"=20'

Project No.: C.I.P. PR. # 501744 SHEET 14 of 88



LOCATION MAP

SCALE 1"=1000'

STANDARD TYPE A COMBINATION CURB AND GUTTER,
 12 INCH GUTTER PAN, 8 INCH MIN. DEPTH (MD 620.02)

119 L.F. MD 355 (FREDERICK ROAD) - STA. 528+36 TO STA. 529+54, RT.

REMOVAL AND DISPOSAL OF EXISTING TRAFFIC
 BARRIER W BEAM

134 L.F. MD 355 (FREDERICK ROAD) - STA. 528+20 TO STA. 529+48, RT.

SPLIT RAIL FENCE

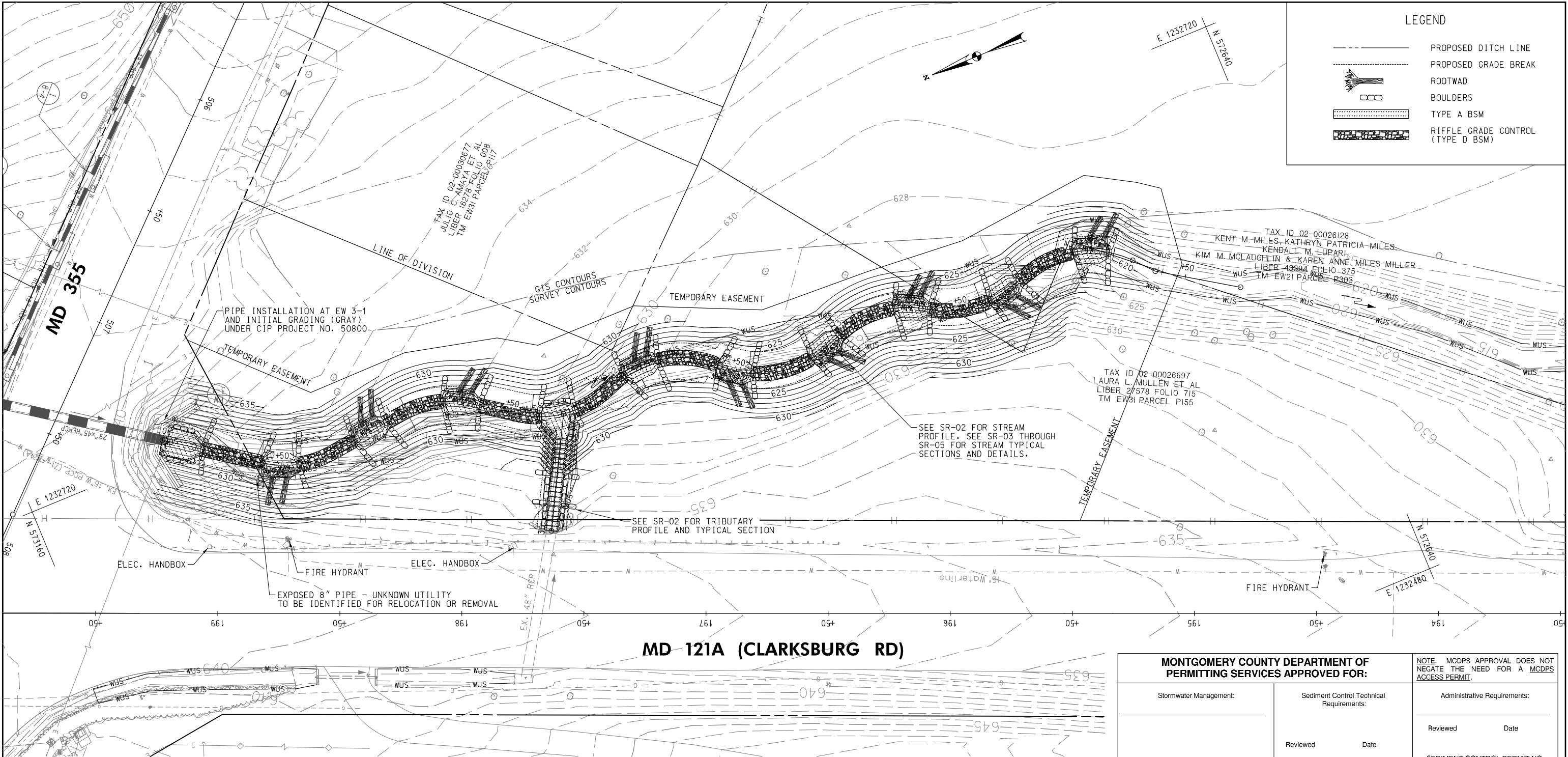
66 L.F. MD 355 (FREDERICK ROAD) - STA. 530+25 TO STA. 530+89, RT.

20' 0 20' 40'
 SCALE: 1"=20'

WALLACE MONTGOMERY
 ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
 10150 York Road, Suite 200
 Hunt Valley, Maryland 21030
 410.494.9093 Tel / 410.667.0925 Fax
 www.wallacemontgomery.com

A Limited Liability Partnership

PLANTER: 9/15/2019
 FILE: H:\PROJECTS\10013.0010\Highway\A_Cadd\pHD-P007_MD355.dgn

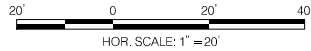


LEGEND

- PROPOSED DITCH LINE
- PROPOSED GRADE BREAK
- ROOTWAD
- BOULDERS
- TYPE A BSM
- RIFFLE GRADE CONTROL (TYPE D BSM)

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed	Reviewed	Reviewed
Approved	Approved	SEDIMENT CONTROL PERMIT NO.
SM FILE #		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.wallacemontgomery.com



90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



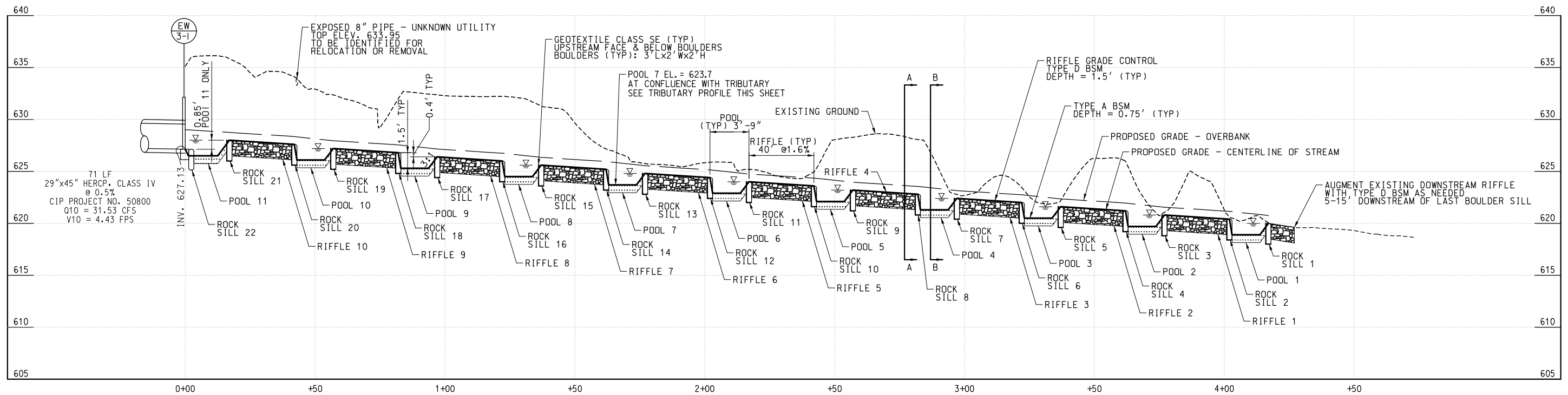
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by : L.E.W.	Drawn by : L.E.W.
Checked by : C.V.M.	

PLAN SHEET SR-01
STREAM RESTORATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE 1"=20' 09/2019
Project No. : C.I.P. PR. # 501744 SHEET 15 of 88

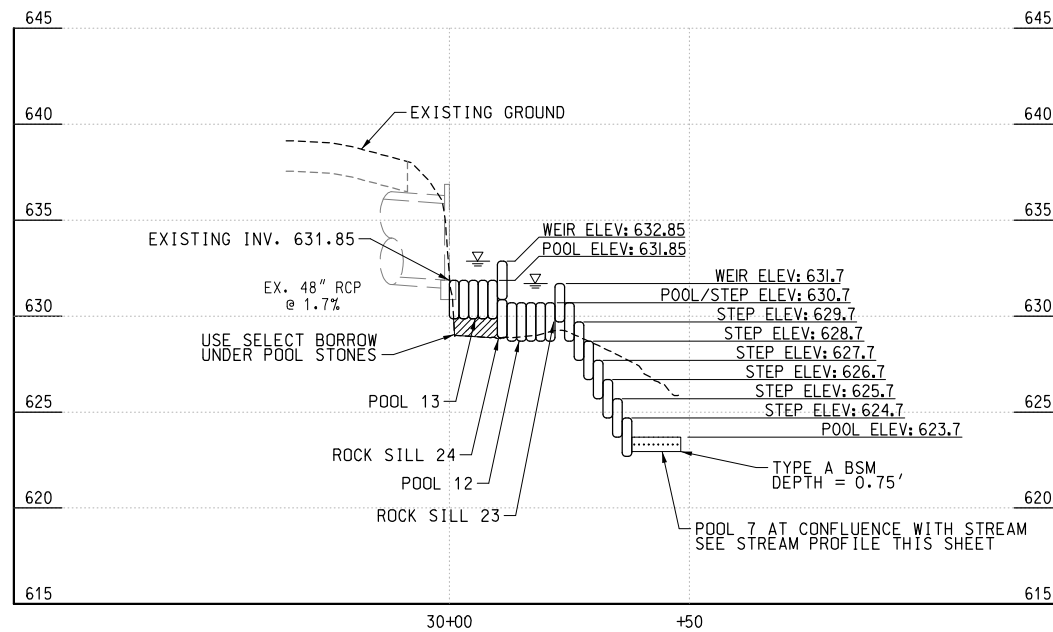
PLOTTER: 3/15/2019
FILE: M:\GIS\2019\13.0010\Highway\Cadd-Drainage\pSR-P001_MD355.dgn



STREAM PROFILE

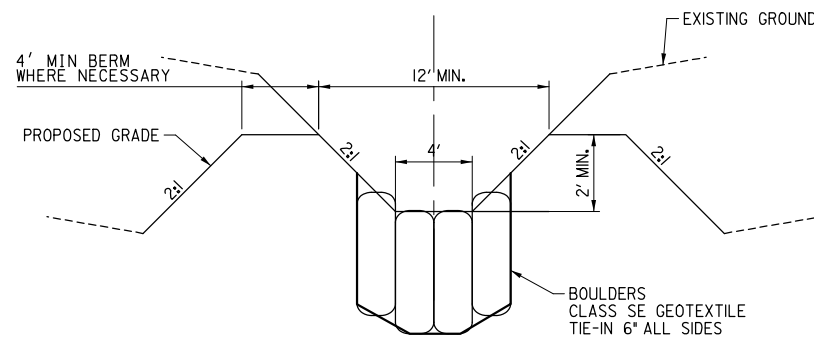
SCALE: HOR. 1"=20'
VERT. 1"=5'

NOTE:
SEE SR-03 THROUGH SR-05 FOR TYPICAL
SECTIONS AND DETAILS. CHANNEL DEPTHS
VARY BETWEEN SECTIONS ACCORDING TO
PROFILE.



TRIBUTARY PROFILE

SCALE: HOR. 1"=20'
VERT. 1"=5'

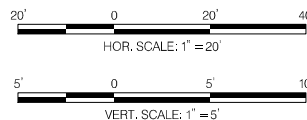


TRIBUTARY TYPICAL SECTION

NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:			NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:	
		Reviewed	Date
		SEDIMENT CONTROL PERMIT NO.	
		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.	
Reviewed	Date	Approved	Date
Approved	Date	SM FILE #	

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.



90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Engineering Services

Date

Designed by : L.E.W.

Drawn by : L.E.W.

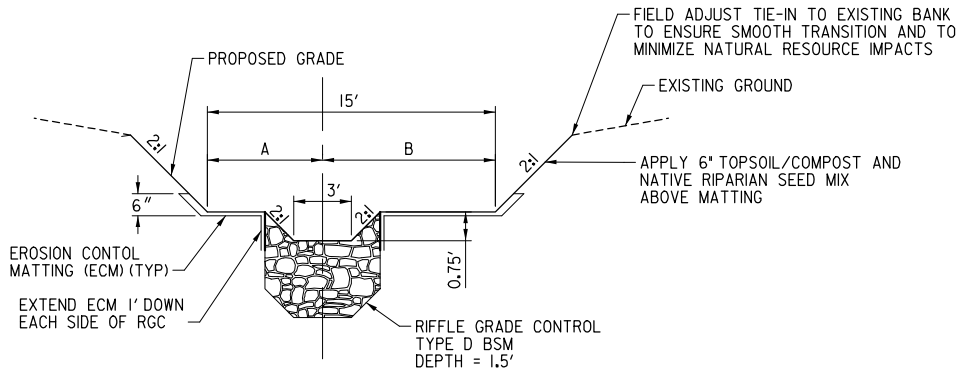
Checked by : C.V.M.

PLAN SHEET SR-02 STREAM RESTORATION PROFILE MD 355 - CLARKSBURG SHARED USE PATH

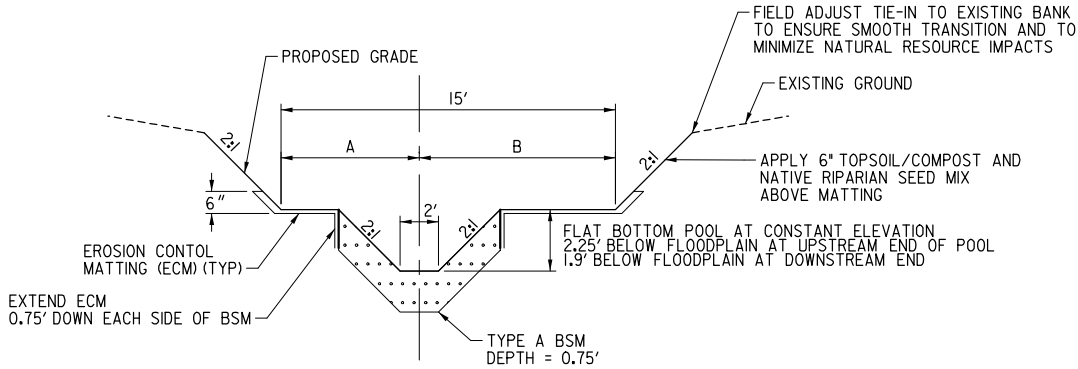
SCALE AS NOTED

09/2019

Project No. : C.I.P. PR. # 501744 SHEET 16 of 88



A-A RIFFLE TYPICAL SECTION
NOT TO SCALE



B-B POOL TYPICAL SECTION
NOT TO SCALE

NOTE:

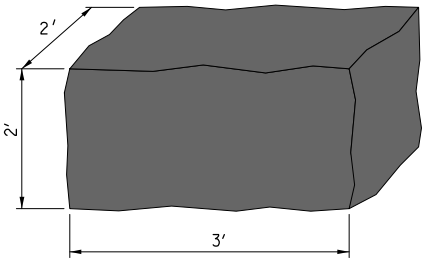
ADD ROOTWADS TO POOL AS SHOWN ON PLANS. PLACE ROOTWADS ON THE SIDE OF POOL WITH 3' FLOODPLAIN

OVERBANK STAKEOUT TABLE

STATION	A	B
0+00	9'	6'
0+70	6'	9'
1+35	9'	6'
1+90	6'	9'
2+40	9'	6'
2+90	6'	9'
3+35	9'	6'
3+70	6'	9'

NATIVE RIPARIAN SEED MIX

PERCENT	COMMON NAME	SCIENTIFIC NAME
25%	VIRGINIA WILD RYE	<i>Elymus virginicus</i>
10%	ANNUAL RYE	<i>Lolium multiflorum</i>
20%	RIVERBANK WILD RYE	<i>Elymus riparius</i>
15%	RED FESCUE	<i>Festuca rubra</i> L.
10%	DEERTONGUE	<i>Dischanthelium clandestinum</i>
20%	BOTTLEBRUSH	<i>Elymus hystrix</i>



TYPICAL BOULDER
NOT TO SCALE

MONTGOMERY COUNTY DEPARTMENT OF
PERMITTING SERVICES APPROVED FOR:

Stormwater Management:

Sediment Control Technical
Requirements:

Administrative Requirements:

Reviewed Date

Reviewed Date

Reviewed Date

Approved Date

Approved Date

SM FILE #

NOTE: MCDPS APPROVAL DOES NOT
NEGATE THE NEED FOR A MCDPS
ACCESS PERMIT.

SEDIMENT CONTROL PERMIT NO.

MCDPS APPROVAL OF THIS PLAN WILL EXPIRE
TWO YEARS FROM THE DATE OF APPROVAL IF
THE PROJECT HAS NOT STARTED.

DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Engineering Services

Date

Designed by : L.E.W.

Drawn by : L.E.W.

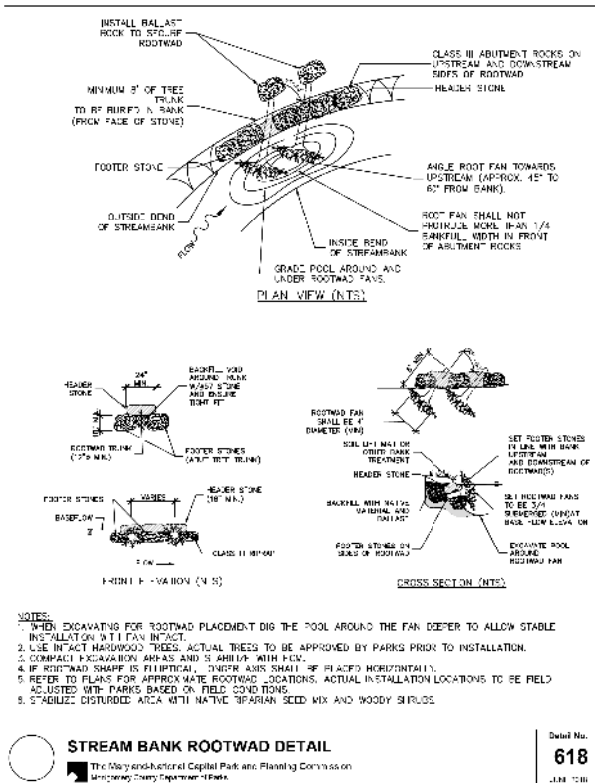
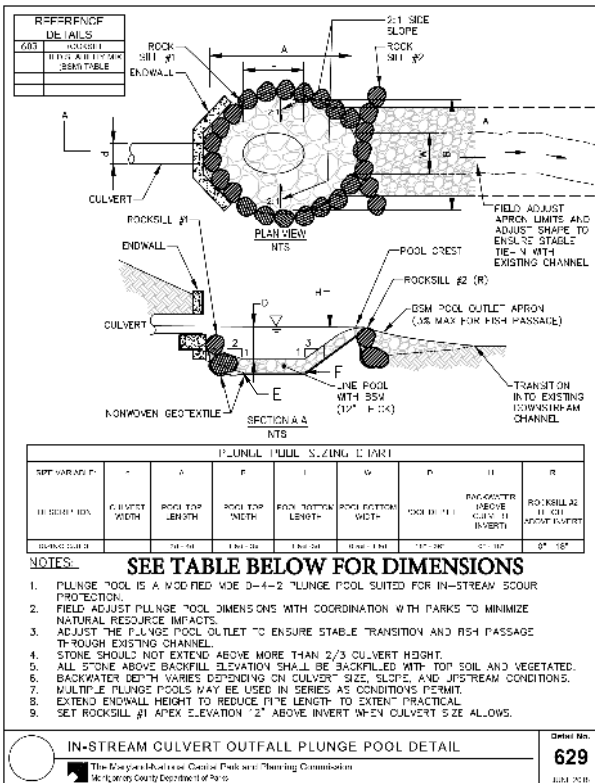
Checked by : C.V.M.

PLAN SHEET SR-03
STREAM RESTORATION TYP. SECTIONS
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE N.T.S.

09/2019

Project No. : C.I.P. PR. # 501744 SHEET 17 of 88

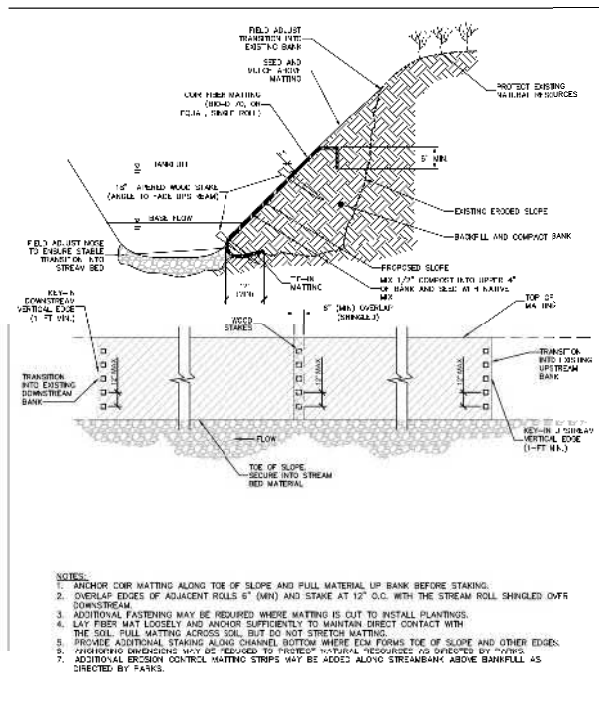


Montgomery Parks Construction Notes for Stream Restoration on Parkland


1. A pre construction meeting with the M NCCPC (Parks) Construction Inspector, Urban Forester, Park Manager, Engineer, Contractor, and applicant's Stream Restoration Professional (SRP) shall occur to ensure full understanding of the project goals, design intent, and field conditions at the time of construction. (The applicant is responsible for coordination with MDE and other regulatory agencies as required by permits.) Contact Jay Childs, Park Construction Manager, at 301.495.2574 to schedule this meeting.
2. Contractor shall be familiar with and implement MDE Waterway Construction Guidelines and MDE Best Management Practices for Working in Nontidal Wetlands, Wetland Buffers, Waterways, and 100-Year Floodplain throughout construction. All in-channel construction shall occur "in the dry" with appropriate pump-around practices.
3. the applicant shall engage a SRP, an individual familiar with stream restoration revegetation design features and waterway construction techniques, to oversee in-stream construction activities to ensure stable channel construction, including appropriate field adjustments and natural resources protection. The applicant shall empower this person to direct Contractor's work as needed to ensure design intent is achieved. This person shall coordinate all adjustments and acceptance of structures with Parks as construction progresses.
4. Parks, in coordination with the SRP and contractor, may require minor adjustments to the layout/elevation of in-stream structures, streambank stabilization, and grading during construction to minimize disturbance to trees/free roots and to ensure functionality of completed construction. Note that the contractor shall take care to protect trunks/roots designated to remain throughout construction.
5. Contractor shall layout critical design points (centerline station, offsets, elevations, structures, etc.) along the stream channel for review prior to structure installation. SRP shall coordinate with Parks to adjust/confirm stakeout to ensure channel stability and protect natural resources. Contractor shall be responsible for maintaining stakeout during construction until final acceptance by Parks. Contractor shall maintain laser level equipment on-site to check grades as construction progresses.
6. Construction of in-stream revegetations, including grade control, bank stabilization and habitat structures, shall be inspected by SRP and Parks under baseflow (not pump-around) conditions to determine any modifications required prior to acceptance. Additional inspections following storm events may result in additional modifications. Contractor is encouraged to utilize construction equipment for compaction of completed structures to ensure stability.
7. Access routes and staging areas shall be field adjusted with Parks to minimize impacts to natural resources. Equipment restrictions (e.g., <8 psi loaded ground pressure) may be required by Parks in sensitive areas. Access routes will be limited to 12' width, unless otherwise approved by Parks.
8. Contractor shall coordinate all tree protection measures and tree removals with Parks prior to construction. Protection measures, such as hardwood mats, tree planting, root aeration matting, equipment restrictions, mulch roads, tree protection fencing, etc. must be installed before equipment enters road areas.

9. Contractor shall coordinate with Sediment Control Inspector and Parks to utilize trenchless sediment controls (i.e. compost socks, trenchless silt fences, etc.) and/or daily stabilization to avoid cutting through mature tree root systems. Where trenching is required, root prune prior to excavation at the direction of Parks.
10. Free trunk/root systems to remain shall not be damaged during placement of riprap, vegetated rock packs, riffle grade controls, rock sills, and other revegetations. Exact extent/orientation of stone placement shall be adjusted in the field, and work completed in a manner that minimizes impacts to terrestrial and aquatic natural resources.
11. Contractor is responsible for control of water throughout construction, including stream flows and runoff through disturbed areas.
12. In-stream areas where pump-around is removed at the end of the workday must be completed and stabilized daily. Disturbed areas above abaseflow shall receive seed/mulch at the end of each workday. Once stream flow is re-established at the end of the workday, the contractor shall allow sufficient time to inspect the new flow pattern and make appropriate adjustments to ensure non-erosive conditions before vacating the site.
13. Contractor is responsible for ensuring smooth transitions at upstream and downstream ends of work areas and between the streambed and its banks.
14. Upon completion of in-stream revegetations and channel grading, thalweg to be reestablished as directed by the SRP and Parks.
15. All exposed stone (including stone toe, imbricated rock walls, rock packs, etc.) above bankfull depth shall be backfilled with topsoil/compost to within 2 inches of rock surface and vegetated with native riparian seed and mulched.
16. Voids should not be left in any completed in-stream structures. Structures should be chinked in with BSM and/or stream bed mix to fill all voids. Constructed riffles and other grade control revegetments will not be accepted by Parks until surficial bioassays is established.
17. Applicant is responsible for completing fish rescues associated with all pump-arounds. Fish rescue teams should consist of properly trained personnel, based on Maryland Biological Stream Survey (MBSS) standards. A list of personnel certified in MBSS protocols can be found at <http://www.dnr.maryland.gov/streams/MBSSgettryst.asp>. Fish rescues require three (3) working days advanced notice to Parks.
18. Where fish pool/aquatic habitat is specified for preservation or enhancement, completed construction should favor the following conditions:
 - Root-water interaction at baseflow
 - Maintaining void space between rocks and undercut banks
 - Restoring post-construction flow patterns to provide adequate scour depth to naturally wash out pools and maintain adequate habitat
19. Completed streambed profile shall not have revegetment drops greater than six inches and constructed riffles shall not be steeper than 3% to ensure fish passage. Contractor will be required to modify/augment constructed revegetments that exceed limits, or otherwise restrict fish passage restrictions at baseflow, as directed by SRP and Parks.

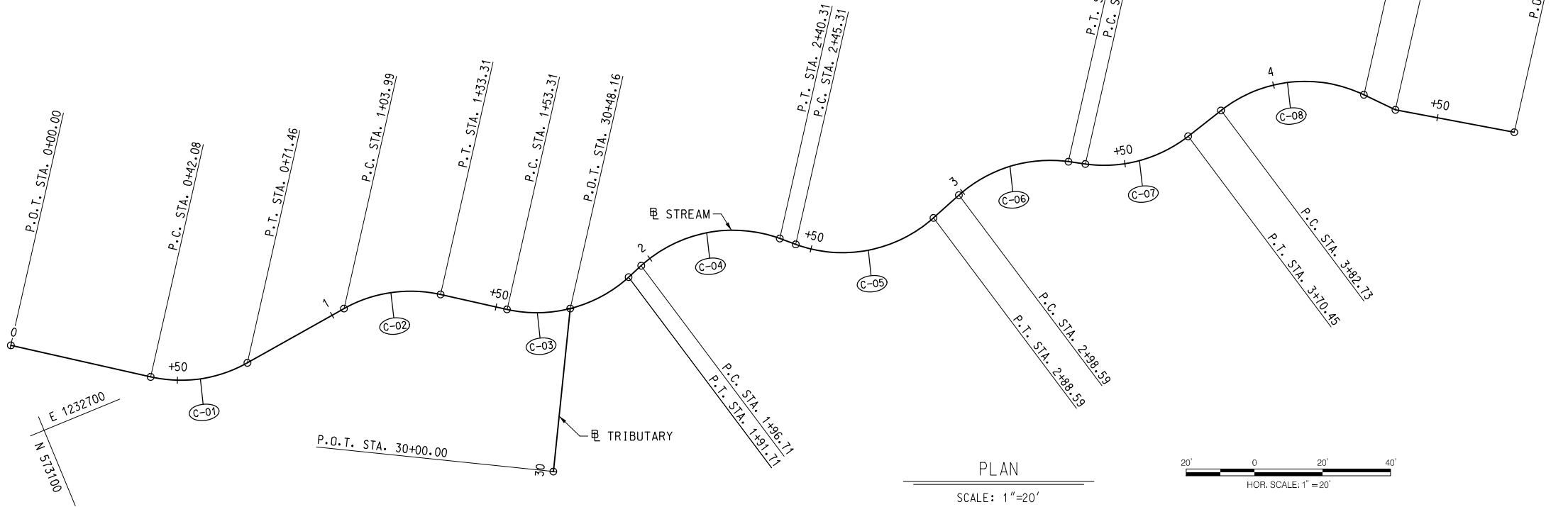
PLUNGE POOL TABLE							
STR #	E STA.	F STA.	POOL ELEV.	POOL BOTTOM LENGTH	POOL BOTTOM WIDTH	POOL DEPTH	BACKWATER ABOVE CULVERT
POOL 11	0+03.3	0+12.5	626.5	11.2'	2'	1.5'	0.87'
POOL 10	0+43.0	0+53.7	626.1	10.7'	2'	1.1'	N/A
POOL 9	0+83.0	0+93.7	625.3	10.7'	2'	1.1'	N/A
POOL 8	1+23.0	1+33.7	624.5	10.7'	2'	1.1'	N/A
POOL 7	1+63.0	1+73.7	623.7	10.7'	2'	1.1'	N/A
POOL 6	2+03.0	2+13.7	622.9	10.7'	2'	1.1'	N/A
POOL 5	2+43.0	2+53.7	622.1	10.7'	2'	1.1'	N/A
POOL 4	2+83.0	2+93.7	621.3	10.7'	2'	1.1'	N/A
POOL 3	3+23.0	3+33.7	620.5	10.7'	2'	1.1'	N/A
POOL 2	3+63.0	3+73.7	619.7	10.7'	2'	1.1'	N/A
POOL 1	4+03.0	4+13.7	618.9	10.7'	2'	1.1'	N/A
POOL 13	30+00	30+10.0	631.85	10.0	4'	1.0'	1.0
POOL 12	30+12.0	30+22.0	630.7	10.0	4'	1.0'	N/A



MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed _____ Date _____	Reviewed _____ Date _____	Reviewed _____ Date _____
Approved _____ Date _____	Approved _____ Date _____	SEDIMENT CONTROL PERMIT NO. _____
SM FILE # _____		MCDPS APPROVAL OF THIS PLAN WILL EXPIRE TWO YEARS FROM THE DATE OF APPROVAL IF THE PROJECT HAS NOT STARTED.
<p>DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.</p>		

<h1>90% SUBMITTAL</h1>								<p>MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878</p>				<p>PLAN SHEET SR-05 STREAM RESTORATION DETAILS MD 355 - CLARKSBURG SHARED USE PATH</p>			
				<p>RECOMMENDED FOR APPROVAL</p>				<p>DATE</p>							
<p>DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL</p>				<p>Chief, Design Section</p>				<p>DATE</p>				<p>SCALE N.T.S.</p>			
<p>APPROVED</p>				<p>Chief, Division of Engineering Services</p>				<p>DATE</p>				<p>09/2019</p>			
<p>NO. REVISION DATE BY</p>				<p>Designed by : L.E.W. Drawn by : L.E.W. Checked by : C.V.M.</p>				<p>Project No. : C.I.P. PR. # 501744 SHEET 19 of 88</p>							

CURVE DATA – STREAM							
CURVE	RADIUS	DELTA	Dc	LENGTH	TANGENT	CHORD	EXTERNAL
C-01	40.00'	42°04'27.23" LT.	143°14'22.02"	29.37'	15.38'	28.72'	2.86'
C-02	40.00'	42°00'01.36" RT.	143°14'22.02"	29.32'	15.35'	28.67'	2.85'
C-03	40.00'	55°00'11.69" LT.	143°14'22.02"	38.40'	20.82'	36.94'	5.10'
C-04	40.00'	62°27'00.87" RT.	143°14'22.02"	43.60'	24.25'	41.47'	6.78'
C-05	40.00'	61°59'36.69" LT.	143°14'22.02"	43.28'	24.03'	41.20'	6.66'
C-06	40.00'	49°46'12.57" RT.	143°14'22.02"	34.75'	18.55'	33.66'	4.09'
C-07	40.00'	46°00'23.16" LT.	143°14'22.02"	32.12'	16.98'	31.26'	3.46'
C-08	40.00'	63°40'58.02" RT.	143°14'22.02"	44.46'	24.84'	42.21'	7.09'



☒ OF CONSTRUCTION STREAM				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.B.	0+00.00	573,099.5030	1,232,726.8023	S 35°11'17.76" W
P.C	0+42.08	573,065.1107	1,232,702.5517	
P.I.	0+57.47	573,052.5376	1,232,693.6862	
P.T.	0+71.46	573,037.2643	1,232,695.5307	S 06°53'09.47" E
P.C	1+03.99	573,004.9690	1,232,699.4309	
P.I.	1+19.34	572,989.7250	1,232,701.2718	
P.T.	1+33.31	572,977.1648	1,232,692.4396	S 35°06'51.90" W
P.C	1+53.31	572,960.8047	1,232,680.9354	
P.I.	1+74.13	572,943.7704	1,232,668.9571	
P.T.	1+91.71	572,924.1884	1,232,676.0414	S 19°53'19.79" E
P.C	1+96.71	572,919.4866	1,232,677.7424	
P.I.	2+20.96	572,896.6841	1,232,685.9917	
P.T.	2+40.31	572,878.8236	1,232,669.5903	S 42°33'41.08" W
P.C	2+45.31	572,875.1408	1,232,666.2084	
P.I.	2+69.34	572,857.4404	1,232,649.9541	
P.T.	2+88.59	572,834.7780	1,232,657.9491	S 19°25'55.60" E
P.C	2+98.59	572,825.3476	1,232,661.2760	
P.I.	3+17.14	572,807.8499	1,232,667.4489	
P.T.	3+33.33	572,791.8360	1,232,658.0769	S 30°20'16.97" W
P.C	3+38.33	572,787.5207	1,232,655.5514	
P.I.	3+55.31	572,772.8645	1,232,646.9740	
P.T.	3+70.45	572,756.5139	1,232,651.5602	S 15°40'06.19" E
P.C	3+82.73	572,744.6858	1,232,654.8779	
P.I.	4+07.58	572,720.7678	1,232,661.5867	
P.T.	4+27.19	572,704.1506	1,232,643.1220	S 48°00'51.83" W
P.I.	4+37.46	572,697.2803	1,232,635.4880	
P.O.E.	4+72.99	572,667.5362	1,232,616.0664	

☒ OF CONSTRUCTION TRIBUTARY				
POINT DESCR.	STATION	COORDINATES		BEARING
		NORTH	EAST	
P.O.B.	30+00.00	572,966.4217	1,232,631.6960	S 61°37'46.28" E
P.O.E.	30+48.16	572,943.5385	1,232,674.0699	

MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES APPROVED FOR:		NOTE: MCDPS APPROVAL DOES NOT NEGATE THE NEED FOR A MCDPS ACCESS PERMIT.
Stormwater Management:	Sediment Control Technical Requirements:	Administrative Requirements:
Reviewed	Reviewed	Reviewed
Date	Date	Date
Approved	Approved	SEDIMENT CONTROL PERMIT NO.
Date	Date	
SM FILE #		
DPS approval of a sediment control or stormwater management plan is for demonstrated compliance with minimum environmental runoff treatment standards and does not create or imply any right to divert or concentrate runoff onto any adjacent property without that property owner's permission. It does not relieve the design engineer or other responsible person of professional liability or ethical responsibility for the adequacy of the drainage design as it affects uphill or downhill properties.		



WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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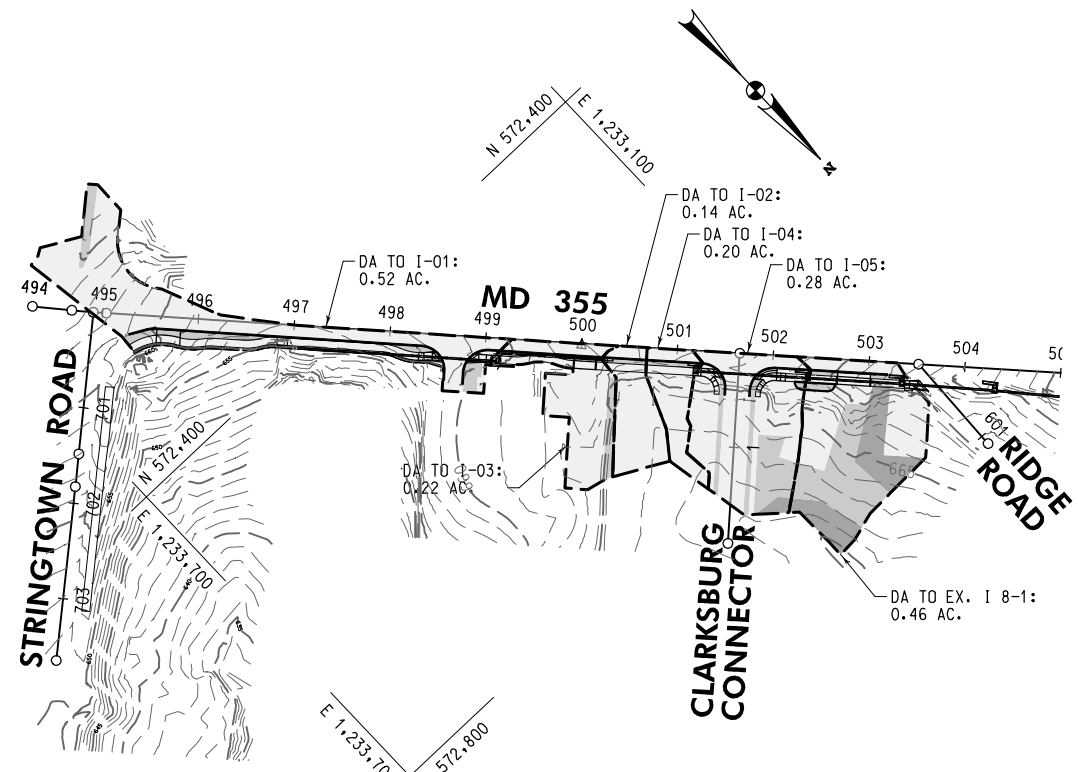
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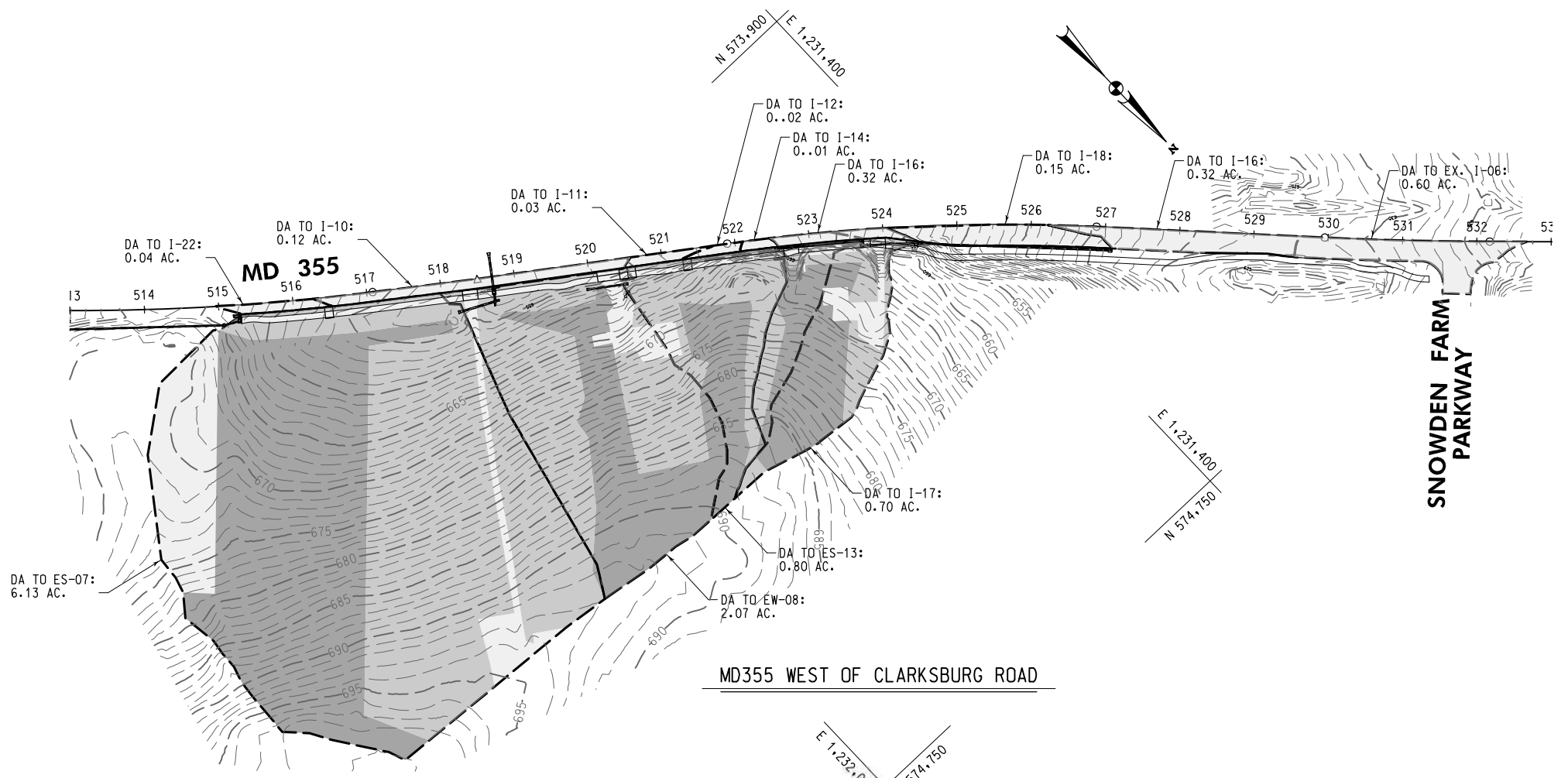
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section APPROVED	Date
Chief, Division of Engineering Services	Date
Designed by : L.E.W.	Drawn by : L.E.W.
Checked by : C.V.M.	

PLAN SHEET SR-06 STREAM RESTORATION GEOM. LAYOUT MD 355 - CLARKSBURG SHARED USE PATH	
SCALE 1"= 20'	09/2019
Project No. : C.I.P. PR. # 501744	SHEET 20 of 88



MD355 EAST OF CLARKSBURG ROAD

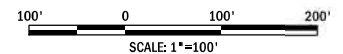


MD355 WEST OF CLARKSBURG ROAD

LEGEND

	IMPERVIOUS AREA
	OPEN SPACE
	WOODED AREA

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ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
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Hunt Valley, Maryland 21030
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90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

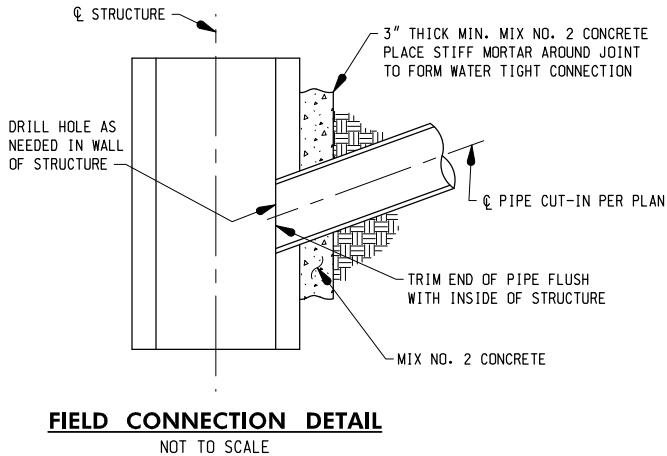
NO.	REVISION	DATE	BY

		MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Engineering Services		Date	
Designed by : J.D.W.		Drawn by : J.D.W.	
Checked by : S.R.R.		Project No. : C.I.P. PR. # 501744	

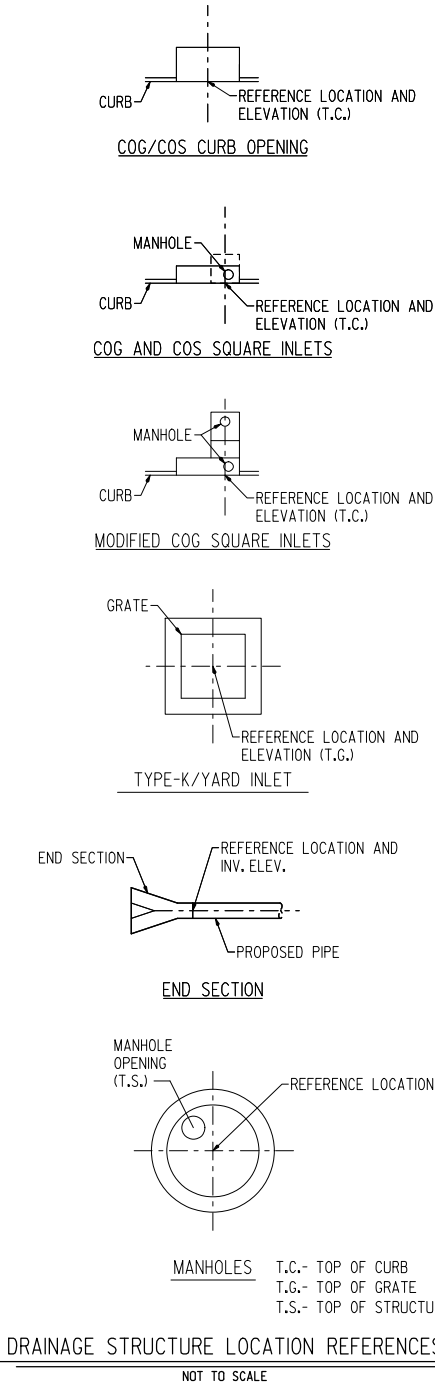
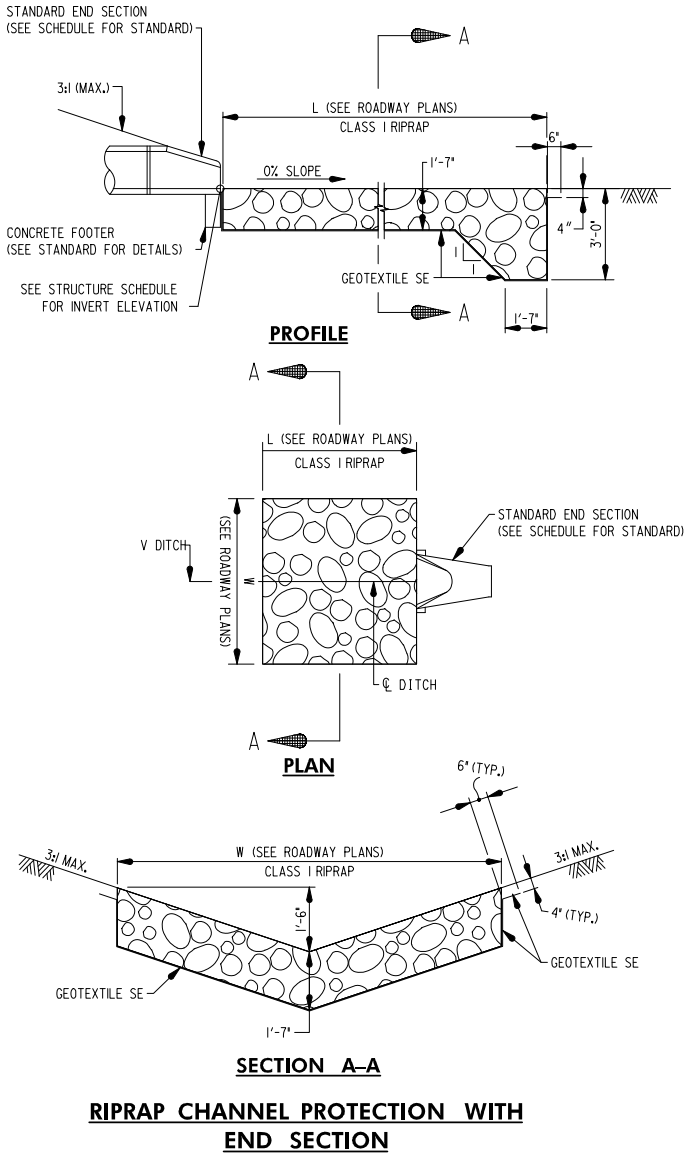
**PLAN SHEET DA-01
DRAINAGE AREA MAP
MD 355 - CLARKSBURG
SHARED USE PATH**

STRUCTURE SCHEDULE								
PLAN SHEET	NUMBER	STATION	OFFSET	TYPE	ELEVATION		STANDARD	VERTICAL DEPTH
					TOP	INV.		
PS-01	I-01	496+88.53	13.00' RT.	10' COG OPENING	N/A	N/A	MD 374.68	N/A
PS-02	I-02	500+25.07	13.00' RT.	STANDARD 10' COG INLET	662.79	656.62	MD 374.51	0.00
PS-02	I-03	499+15.20	13.00' RT.	STANDARD 15' COG INLET	660.41	654.10	MD 374.51	0.14
PS-02	I-04	501+20.27	13.00' RT.	MODIFIED 10' COG INLET	663.40	657.40	SEE SHEET DD-02	0.00
PS-03	I-05	502+37.34	13.00' RT.	MODIFIED 15' COG INLET	661.55	655.55	SEE SHEET DD-02	0.00
PS-04	I-22	516+47.01	13.00' RT.	10' COG OPENING	N/A	N/A	MD 374.68	N/A
PS-04	I-10	518+69.97	13.00' RT.	MODIFIED 15' COS INLET	653.22	647.09	SEE SHEET DD-02	0.00
PS-05	I-11	520+57.00	13.00' RT.	10' COG OPENING	N/A	N/A	MD 374.68	N/A
PS-05	I-12	521+33.00	13.00' RT.	10' COG OPENING	N/A	N/A	MD 374.68	N/A
PS-05	I-14	522+55.72	13.00' RT.	STANDARD 5' COG INLET	658.25	652.08	MD 374.51	0.00
PS-06	I-16	523+70.69	13.00' RT.	MODIFIED 15' COG INLET	653.80	647.63	SEE SHEET DD-02	0.00
PS-06	I-17	524+44.68	20.27' RT.	STANDARD 15' COG INLET	649.51	643.33	MD 374.51	0.00
PS-07	I-18	527+07.54	28.50' RT.	STANDARD 20' COG INLET	633.64	628.26	MD 374.52	0.00
PS-02	ES-01	518+69.97	26.50' LT.	24" STANDARD CONCRETE END SECTION ROUND	N/A	646.03	MD 368.01	N/A
PS-04	ES-07	518+25.62	40.56' RT.	24" STANDARD CONCRETE END SECTION ROUND	N/A	650.83	MD 368.01	N/A
PS-05	ES-13	520+43.81	34.79' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	653.64	MD 368.01	N/A
PS-05	ES-14	520+00.31	34.77' RT.	18" STANDARD CONCRETE END SECTION ROUND	N/A	652.86	MD 368.01	N/A
PS-04	EW-08	518+69.97	32.61' RT.	STANDARD TYPE E ENDWALL FOR 24 INCH PIPE	N/A	650.36	MD 356.01	N/A
PS-02	MH-02	499+14.47	23.22' RT.	48" SQUARE STANDARD SHALLOW MANHOLE	660.49	653.92	MD 383.00	1.15

PIPE SCHEDULE								
PLAN SHEET	STRUCTURE FROM	STRUCTURE TO	SIZE	UPSTREAM INV.	DOWNSTREAM INV.	TYPE	LENGTH	COMMENT
PS-01 & 02	MH-02	EX. MH-01	18"	651.60	648.76	RCP CLASS IV	209'	
PS-02	I-02	I-03	15"	652.97	652.02	RCP CLASS IV	106'	
PS-02	I-03	MH-02	18"	651.77	651.70	RCP CLASS IV	4'	
PS-02 & 03	I-04	I-05	18"	657.40	655.65	RCP CLASS IV	113'	
PS-03	I-05	EX. I 8-1	18"	655.55	652.43	RCP CLASS IV	94'	TIE-IN TO INLET CONSTRUCTED UNDER PROJECT NO. 508000
PS-04	ES-07	EW-08	24"	650.83	650.61	RCP CLASS IV	44'	
PS-04	EW-08	I-10	24"	650.36	649.70	RCP CLASS IV	14'	
PS-04	I-10	ES-01	24"	647.09	646.17	RCP CLASS IV	47'	
PS-05	ES-13	ES-14	18"	653.64	652.86	RCP CLASS IV	44'	
PS-05 & 06	I-14	I-16	18"	652.08	647.73	RCP CLASS IV	111'	
PS-06	I-16	I-17	18"	647.63	643.43	RCP CLASS IV	70'	
PS-06	I-17	I-18	18"	643.33	628.43	RCP CLASS IV	257'	



RIPRAP OUTFALL SCHEDULE										
STRUCTURE ID	L (FT)	W (FT)	T (IN)	H (FT)	CLASS	TYPE	QTY (SY)	CUTOFF WALL (LF)	Q10 (CFS)	V10 (FPS)
ES-01	10.0	9.0	19	1.50	CLASS I	ROP III	10	9.0	17.9	9.0



90% SUBMITTAL				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878			
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				RECOMMENDED FOR APPROVAL Chief, Design Section APPROVED _____ Date _____ Chief, Division of Engineering Services _____ Date _____			
NO.	REVISION	DATE	BY	Designed by : J.D.W.	Drawn by : J.D.W.	Checked by : S.R.R.	

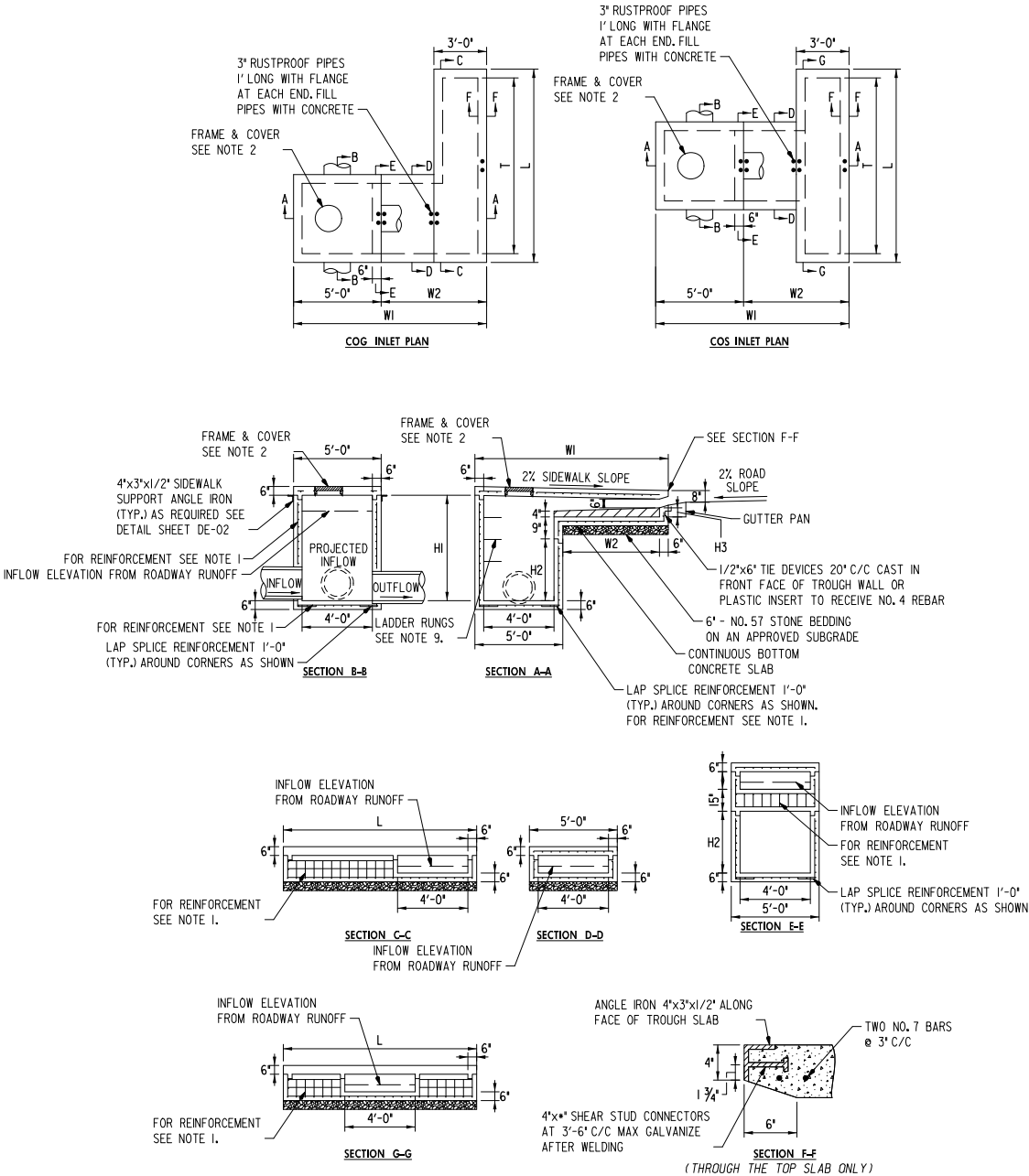
PLAN SHEET DD-01 DRAINAGE SCHEDULE & DETAILS MD 355 - CLARKSBURG SHARED USE PATH			
SCALE : N.T.S.			
Project No. : C.I.P. PR. # 501744	SHEET 22	of 88	09/2019

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-04	513+45.58	42.13' RT.	2'	661.00
PS-04	515+50.00	43.00' RT.	2'	660.33
PS-04	517+50.00	43.80' RT.	2'	658.02
PS-04	516+00.00	44.12' RT.	2'	656.86
PS-04	516+25.00	44.05' RT.	2'	655.84
PS-04	516+50.00	45.19' RT.	2'	654.54
PS-04	516+75.00	45.94' RT.	2'	653.66
PS-04	517+00.00	46.05' RT.	2'	652.37
PS-04	517+25.00	45.61' RT.	2'	651.77
PS-04	517+50.00	44.91' RT.	2'	651.28
PS-04	517+75.00	44.19' RT.	2'	650.97
PS-04	518+00.00	43.29' RT.	2'	650.87
PS-04	518+19.57	41.51' RT.	2'	651.00

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-04	518+75.89	34.82' RT.	2'	651.08
PS-04 & 05	519+00.00	34.83' RT.	2'	651.75
PS-05	519+25.00	34.82' RT.	2'	652.00
PS-05	519+50.00	35.84' RT.	2'	652.22
PS-05	519+75.00	35.23' RT.	2'	652.60
PS-05	519+94.15	34.77' RT.	2'	652.92

GRASS SWALE STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-05	520+50.00	34.79' RT.	2'	653.89
PS-05	520+75.00	34.20' RT.	2'	654.36
PS-05	521+00.00	33.45' RT.	2'	654.95
PS-05	521+25.00	34.07' RT.	2'	655.50
PS-05	521+50.00	34.76' RT.	2'	656.05
PS-05	521+75.00	34.93' RT.	2'	656.48
PS-05	522+00.00	35.08' RT.	2'	656.84
PS-05	522+25.00	35.04' RT.	2'	656.89
PS-05	522+50.00	34.77' RT.	2'	656.94

CONVEYANCE DITCH STAKEOUT				
PLAN SHEET	STATION	OFFSET	WIDTH	ELEVATION
PS-06	524+46.51	42.46' RT.	2'	647.79
PS-06	524+50.00	43.55' RT.	2'	647.57
PS-06	524+75.00	51.67' RT.	2'	645.87
PS-06	525+00.00	55.20' RT.	2'	644.25
PS-06	525+25.00	55.42' RT.	2'	642.81
PS-06	525+50.00	55.46' RT.	2'	641.34
PS-06	525+75.00	55.43' RT.	2'	639.77
PS-06	526+00.00	55.44' RT.	2'	638.23
PS-06	526+25.00	55.47' RT.	2'	636.66
PS-06	526+50.00	55.47' RT.	2'	635.16
PS-06	526+75.00	55.42' RT.	2'	633.66
PS-06	527+00.00	55.43' RT.	2'	632.37
PS-06	527+25.00	55.42' RT.	2'	631.33
PS-06	527+50.00	55.42' RT.	2'	630.43
PS-06	527+75.00	55.61' RT.	2'	629.73
PS-06 & 07	528+00.00	56.11' RT.	2'	629.22
PS-07	528+25.00	51.87' RT.	2'	628.85
PS-07	528+38.61	49.57' RT.	2'	628.67

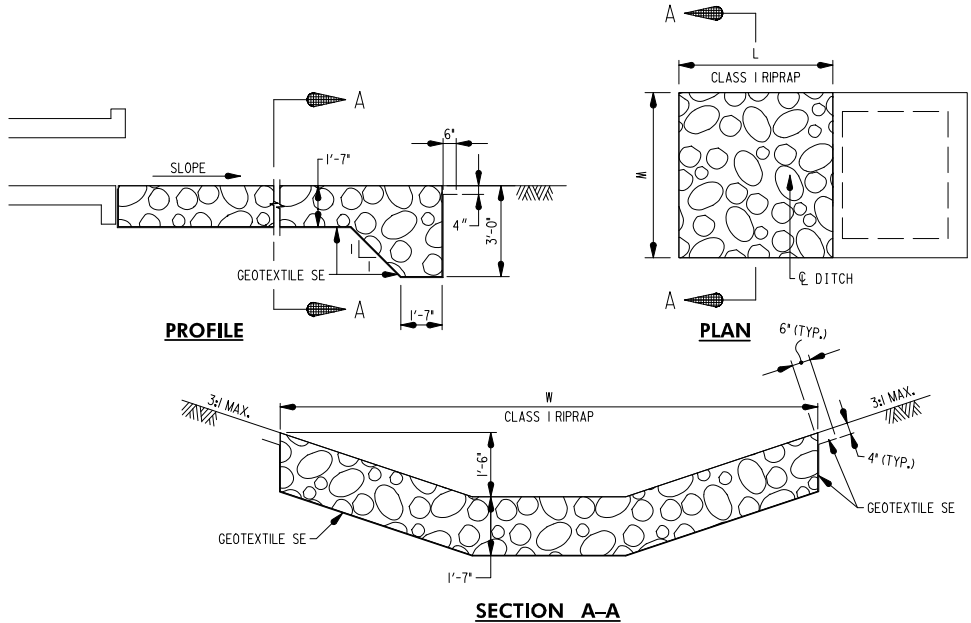


MODIFIED COG INLET DIMENSION TABLE							
INLET	T(FT)	L(FT)	H1(FT)	H2(FT)	H3(IN)	W1(FT)	W2(FT)
I-04	10.0	11.0	5.72	3.25	5.44	11.0	6.0
I-05	15.0	16.0	5.72	3.25	5.44	11.0	6.0
I-16	15.0	16.0	5.72	3.25	5.44	11.0	6.0

MODIFIED COS INLET DIMENSION TABLE							
INLET	T(FT)	L(FT)	H1(FT)	H2(FT)	H3(IN)	W1(FT)	W2(FT)
I-10	15.0	16.0	5.72	3.25	5.44	11.0	6.0

NOTES

- INLET MAY BE PRECAST OR CAST IN PLACE. REINFORCEMENT SHALL BE EPOXY COATED NO. 4 BARS PLACED IN THE CENTER OF TOOLS, AND INCIDENTALS REQUIRED TO SATISFACTORILY CONSTRUCT THE INLET AND COMPLETE THE WORK. INLET WALLS AT 6" C/C TWO WAYS. REINFORCEMENT STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60.
- FOR MANHOLE FRAME AND COVER SEE MD 383.61.
- CONCRETE SHALL BE MIX NO. 3.
- CURB OPENINGS SHALL NOT ENCR OACH ON CROSSWALK AREAS.
- A CONCRETE OR BRICK CHANNEL WHICH SLOPES AT LEAST 2 IN/FT TOWARD THE OUTLET SHALL BE PROVIDED IN THE FIELD.
- GRADE AND SLOPE ADJUSTMENTS SHALL BE COMPLETED IN THE FIELD USING PRECAST ADJUSTMENT COLLAR AND MORTAR.
- SLOPED TROUGH FLOOR TO BE CAST IN THE FIELD AND USED ONLY WHEN ROAD GRADE IS 1.5% OR LESS. WHEN SLOPED TROUGH FLOOR IS USED, ROUGHEN PRECAST TROUGH FLOOR.
- PRECAST INLET JOINTS - THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR OWN DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING THE MANUFACTURER'S RECOMMENDED ASTM OR AASHTO APPROVED SEALANT.
- LADDER RUNGS SHALL BE PLACED IN VERTICAL ALIGNMENT AT 1'-3" C/C. RUNGS ARE INCIDENTAL TO THE COST OF THE INLET.
- ANGLE IRON AND SHEAR STUD CONNECTORS SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH ASTM A 123. SEE STDS. MD 374.55 & MD 374.64.
- SEE STANDARD MD 374.65 FOR DEPRESSED GUTTER PAN.
- CUSTOM COG/COS INLET SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH CUSTOM COG/COS INLET. PAYMENT WILL BE FULL COMPENSATION FOR ALL CONCRETE, REINFORCEMENT, LADDER RUNGS, EXCAVATION, LABOR, EQUIPMENT.

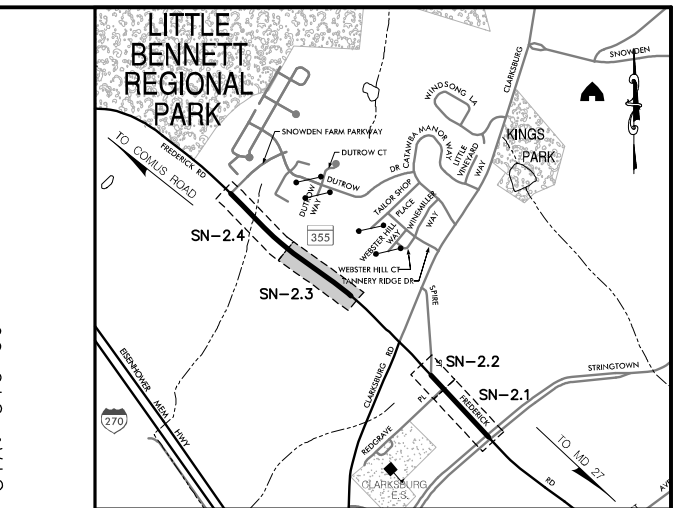
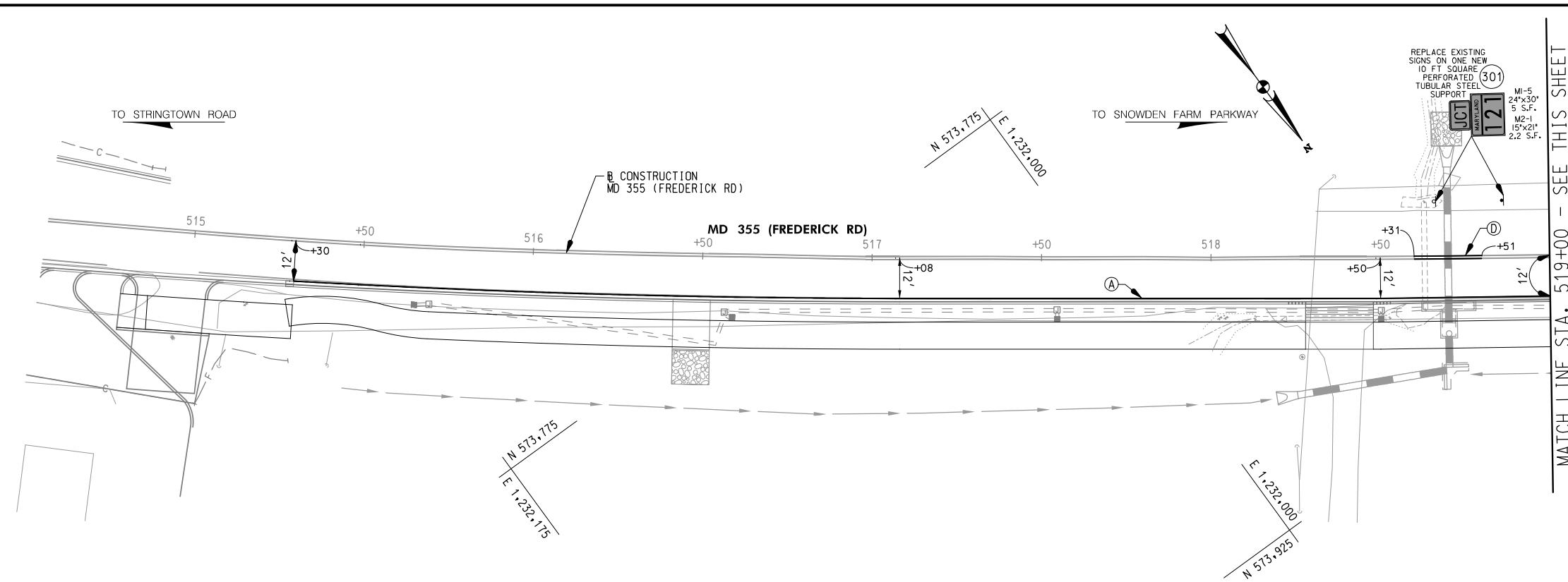


RIPRAP CHANNEL PROTECTION WITH END SECTION

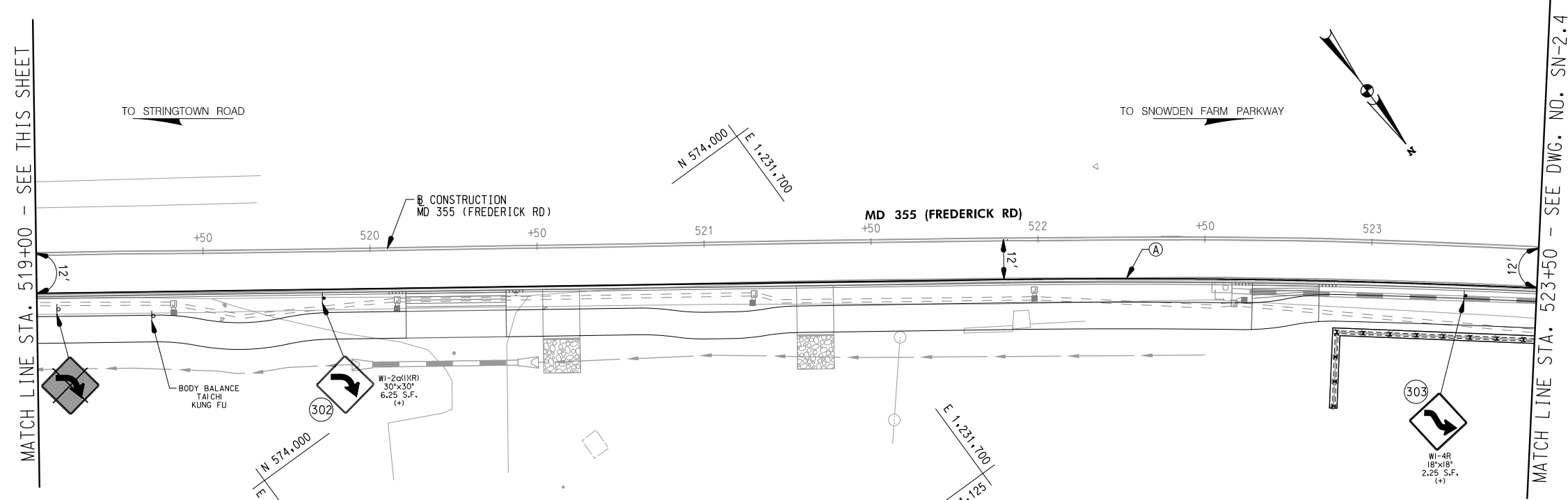
COG OPENING OUTFALL PROTECTION SCHEDULE										
STRUCTURE ID	Lg (FT)	W (FT)	T (IN)	H (FT)	CLASS	SLOPE	QTY (SY)	CUTOFF WALL (LF)	Q10 (CFS)	V10 (FPS)
I-01	18.2	11.0	19	1.50	CLASS I	33%	23	11.0	2.8	0.3
I-11	10.0	11.0	19	1.50	CLASS I	33%	13	11.0	0.2	0.02
I-12	10.0	11.0	19	1.50	CLASS I	33%	13	11.0	0.1	0.01
I-22	10.0	11.0	19	1.50	CLASS I	33%	13	11.0	0.9	0.09

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				RECOMMENDED FOR APPROVAL				PLAN SHEET DD-02 DRAINAGE DETAILS MD 355 - CLARKSBURG SHARED USE PATH	
				Chief, Design Section APPROVED			Date	09/2019	Project No. : C.I.P. PR. # 501744 SHEET 23 of 88
				Chief, Division of Engineering Services			Date		
NO.	REVISION	DATE	BY	Designed by : J.D.W.	Drawn by : J.D.W.	Checked by : S.R.R.			



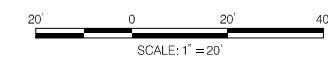
LOCATION MAP
SCALE 1"=1000'



LEGEND

	PROPOSED SIGN & SUPPORT
	EXISTING SIGN & SUPPORT
	EXISTING SIGN & SUPPORT TO BE REMOVED
	LANE USE ARROW

(A)	5" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(B)	5" SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(C)	5" DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
(D)	5" SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(E)	10" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(F)	12" SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
(G)	24" INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
(H)	THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
(I)	EXISTING PAVEMENT MARKINGS TO REMAIN
(J)	EXISTING PAVEMENT MARKINGS TO BE REMOVED
+	INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT



APPROVALS		REVISIONS	
TEAM LEADER			
ASST. DIR. CHIEF			
DIVISION CHIEF			
OFFICE DIRECTOR			

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date

Designed by : J.D.W. Drawn by : J.D.W. Checked by : J.L.R.

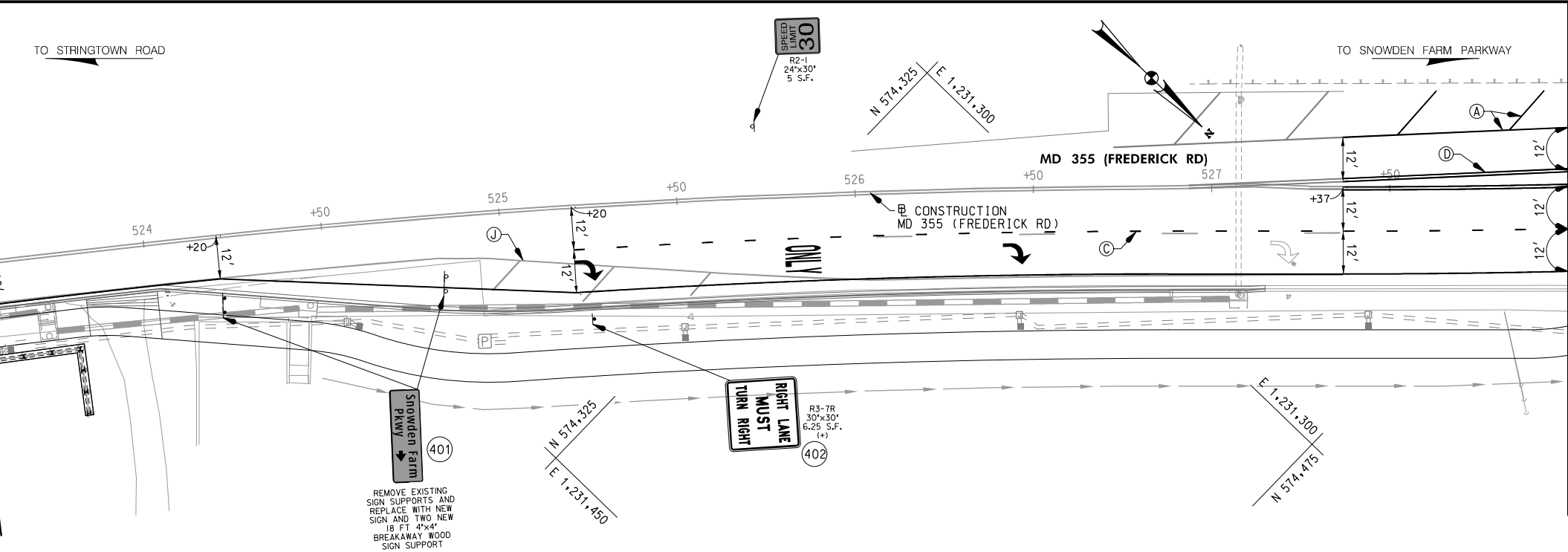
PLAN SHEET SN-2.3
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
STA. 514+50 TO STA. 523+50

Project No. : C.I.P. PR. # 501744 SHEET 51 of 88

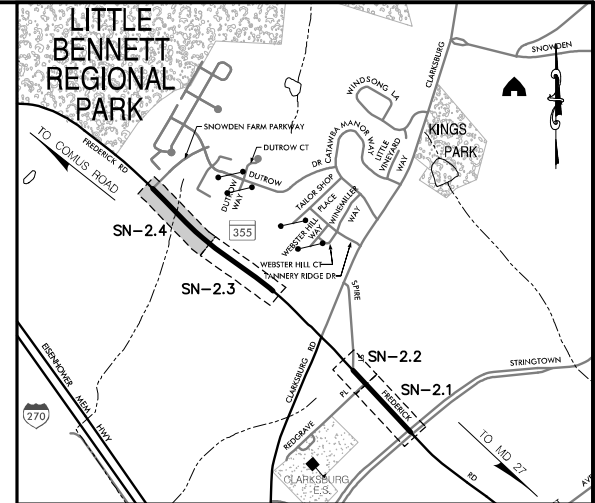
WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
www.wallacemontgomery.com



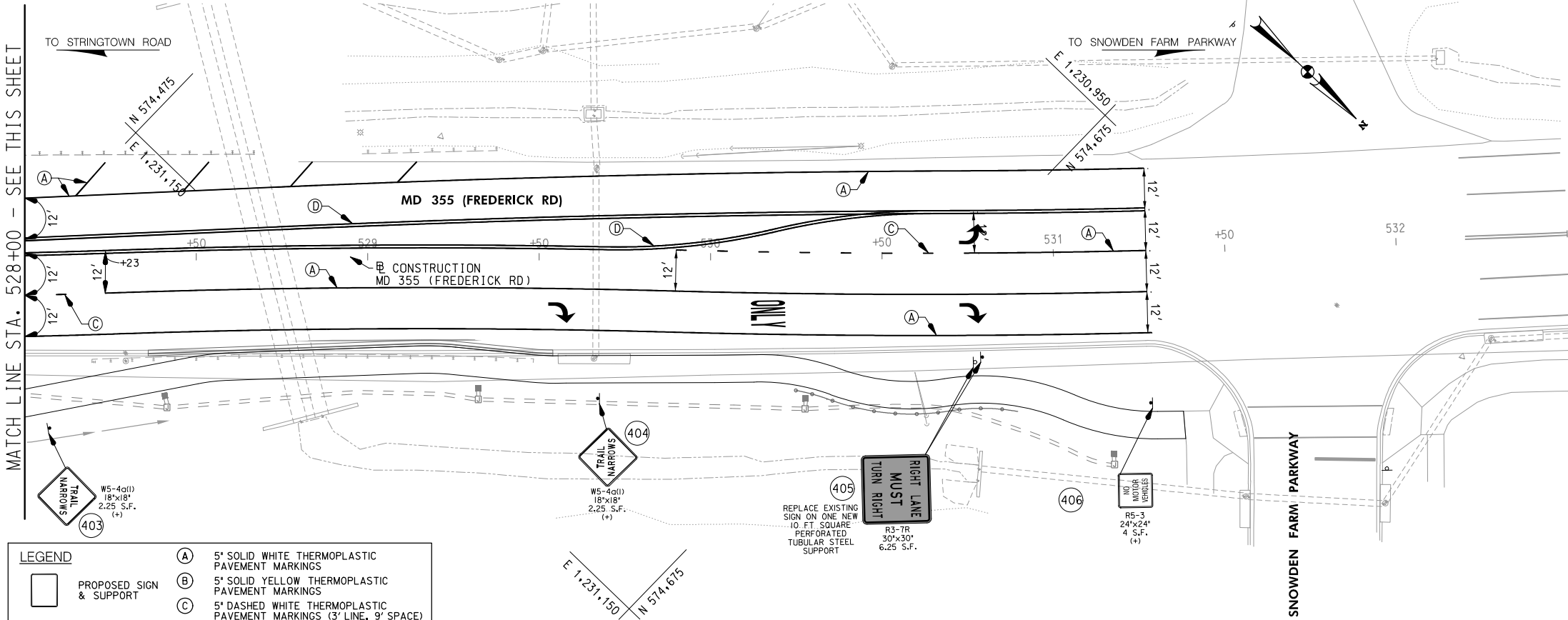
MATCH LINE STA. 523+50 - SEE DWG. NO. SN-2.3



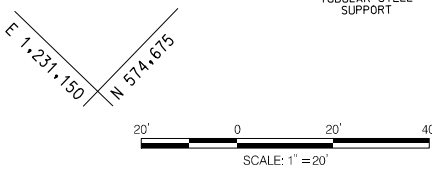
MATCH LINE STA. 528+00 - SEE THIS SHEET



LOCATION MAP
SCALE 1"=1000'



LEGEND	
	PROPOSED SIGN & SUPPORT
	EXISTING SIGN & SUPPORT
	EXISTING SIGN & SUPPORT TO BE REMOVED
	LANE USE ARROW
(A)	5' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(B)	5' SOLID YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(C)	5' DASHED WHITE THERMOPLASTIC PAVEMENT MARKINGS (3' LINE, 9' SPACE)
(D)	5' SOLID DOUBLE YELLOW THERMOPLASTIC PAVEMENT MARKINGS
(E)	10' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(F)	12' SOLID WHITE THERMOPLASTIC PAVEMENT MARKINGS
(G)	24 INCH WHITE THERMOPLASTIC PAVEMENT MARKINGS (STOP LINE)
(H)	THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS
(I)	EXISTING PAVEMENT MARKINGS TO REMAIN
(J)	EXISTING PAVEMENT MARKINGS TO BE REMOVED
+	INSTALL ON ONE SQUARE PERFORATED TUBULAR STEEL SUPPORT



APPROVALS		REVISIONS	
TEAM LEADER			
ASST. DIV. CHIEF			
DIVISION CHIEF			
OFFICE DIRECTOR			

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by : J.D.W.	Drawn by : J.D.W.
Checked by : J.L.R.	

PLAN SHEET SN-2.4 SIGNING & PAVEMENT MARKING PLANS MD 355 - CLARKSBURG SHARED USE PATH STA. 523+50 TO STA. 532+50

Project No. : C.I.P. PR. # 501744 SHEET 52 of 88

SIGN NO.	REMARKS		CODE NUMBERS*												
			1	2	3	4	5	6	7	8	9	10	11	12	13
101	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1										
102	RELOCATE R2-1 (24"x30") 'SPEED LIMIT 30'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5									
103	RELOCATE M3-1 (12"x18") 'NORTH', M1-5 (24"x30") 'MARYLAND 355'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	6.5									
104	RELOCATE MONTGOMERY COUNTY CORRECTIONAL FACILITY SIGN	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	2									
105	R7-4(2) (24"x30") 'NO STOPPING ANY TIME'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	5	1	1										
106	RELOCATE W16-9 (24"x12") 'AHEAD', S1-1 (36"x36") SCHOOL	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	5									
	PAVEMENT MARKINGS							503		61		13			
201	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1										
202	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										
203	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										
204	S4-3P (12"x4") 'SCHOOL' (2), R1-6(a)1 (12"x36") IN-STREET PEDESTRIAN CROSSING (2)		6.67												
205	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1										
206	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1										
207	S1-1 (36"x36") SCHOOL (2), W16-7pR (24"x12") ARROW PLAQUE, W16-7pL (24"x12") ARROW PLAQUE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	22	1	1										
208	W3-3 (30"x30") SIGNAL AHEAD	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1										
209	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1										
210	R1-1 (18"x18") 'STOP'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										
	PAVEMENT MARKINGS							213		154					
301	RELOCATE M2-1 (15"x21") 'JCT', M1-5 (24"x30"), 'MARYLAND 121'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT		1	1	7.19									
302	W1-2a(1)(R) (30"x30") CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1										
303	W1-4R (18"x18") REVERSE CURVE	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										
	PAVEMENT MARKINGS							820	40						
401	RELOCATE EXISTING SIGN	TWO 4"x4" WOOD SUPPORT													36
402	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1										
403	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										
404	W5-4a(1) (18"x18") 'TRAIL NARROWS'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	2.25	1	1										
405	R3-7R (30"x30") 'RIGHT LANE MUST TURN RIGHT'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	6.25	1	1										
406	D11-1 (18"x24") 'BIKE ROUTE', R5-3 (24"x24") 'NO MOTOR VEHICLES'	ONE SQ PERFORATED TUBULAR STEEL SUPPORT	7	1	1										
	PAVEMENT MARKINGS							1384					126		
	SUBTOTAL THIS SHEET		129.17	23	23	25.69		2920	40	215		13	126		

* CODE NUMBER DESCRIPTION & UNIT		
CODE NUMBERS	DESCRIPTION	UNIT
1	SHEET ALUMINUM SIGNS	SF
2	SQUARE PERFORATED TUBULAR STEEL SIGN POSTS	EA
3	SQUARE TUBULAR STEEL ANCHOR BASES	EA
4	RELOCATE EXISTING GROUND MOUNTED SIGNS	SF
5	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS	SF
6	5 INCH WHITE THERMOPLASTIC PAVEMENT MARKING LINES	LF
7	5 INCH YELLOW THERMOPLASTIC PAVEMENT MARKING LINES	LF
8	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
9	16 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
10	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF
11	WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS	SF
12	BIKE LANE PREFORMED THERMOPLASTIC PAVEMENT MARKING WITH ARROW	SF
13	4"x4" WOOD SUPPORT	LF

REVISIONS			

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Engineering Services

Date

Designed by : J.D.W. Drawn by : J.D.W. Checked by : J.L.R.

PLAN SHEET SN-11.1
SIGNING & PAVEMENT MARKING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
INDEX OF QUANTITIES

09/2019

Project No. : C.I.P. PR. # 501744 SHEET 53 of 88



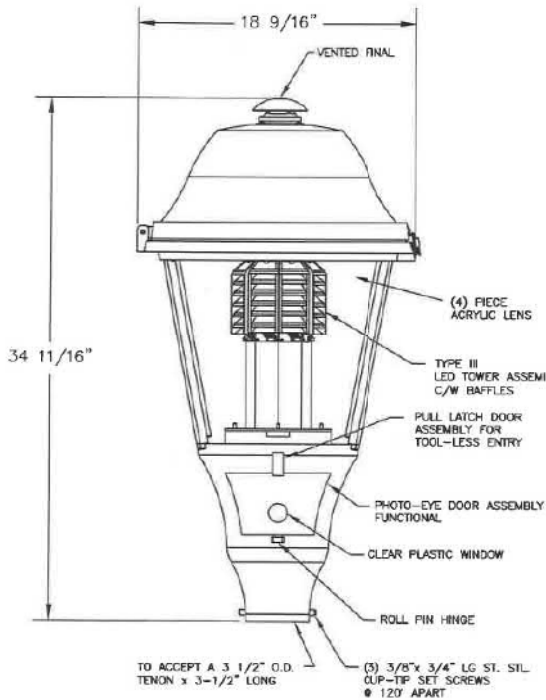
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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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POLE SCHEDULE

POLE NUMBER	TYPE OF POLE	POLE OFFSET FROM TRAVEL LANE **	STATION AND OFFSET	LUMINAIRE / WATTAGE	TYPE OF BASE	DRAWING NUMBER
22243	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	495+64, 17' RT	LED/53W	Breakaway	LT-02
22245	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	5'	496+57, 16' RT	LED/53W	Breakaway	LT-02
22247	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	14'	497+43, 26' RT	LED/53W	Breakaway	LT-02
22249	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	5'	498+35, 16' RT	LED/53W	Breakaway	LT-03
22251	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	498+97, 17' RT	LED/53W	Breakaway	LT-03
22253	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	499+90, 17' RT	LED/53W	Breakaway	LT-03
22255	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	500+52, 17' RT	LED/53W	Breakaway	LT-03
22257	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	501+28, 28' RT	LED/53W	Breakaway	LT-03
22259	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	502+06, 28' RT	LED/53W	Breakaway	LT-04
22261	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	17'	502+64, 29' RT	LED/53W	Breakaway	LT-04
22263	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	18'	503+61, 29' RT	LED/53W	Breakaway	LT-04
22265	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	515+65, 17' RT	LED/53W	Breakaway	LT-05
22267	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	516+59, 18' RT	LED/53W	Breakaway	LT-05
22269	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	517+55, 18' RT	LED/53W	Breakaway	LT-05
22271	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	518+50, 18' RT	LED/53W	Breakaway	LT-05
22273	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	519+41, 19' RT	LED/53W	Breakaway	LT-06
22275	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	520+08, 18' RT	LED/53W	Breakaway	LT-06
22277	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	521+14, 18' RT	LED/53W	Breakaway	LT-06
22279	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	521+99, 18' RT	LED/53W	Breakaway	LT-06
22281	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	522+62, 18' RT	LED/53W	Breakaway	LT-06
22283	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	7'	523+59, 18' RT	LED/53W	Breakaway	LT-07
22285	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	6'	524+57, 28' RT	LED/53W	Breakaway	LT-07
22287	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	8'	525+50, 36' RT	LED/53W	Breakaway	LT-07
22289	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	8'	526+45, 35' RT	LED/53W	Breakaway	LT-07
22291	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	10'	527+44, 36' RT	LED/53W	Breakaway	LT-07
22293	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	17'	528+41, 44' RT	LED/53W	Breakaway	LT-08
22295	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	16'	529+32, 43' RT	LED/53W	Breakaway	LT-08
22297	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	15'	530+27' 42' RT	LED/53W	Breakaway	LT-08
22299	16' BLACK FIBERGLASS WITH COLONIAL POST TOP	33'	531+16, 59' RT	LED/53W	Breakaway	LT-08

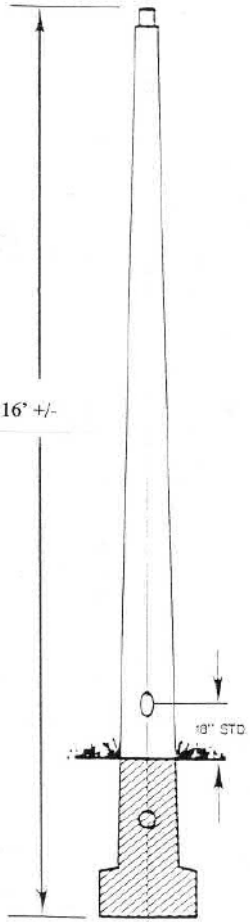
** - POLE OFFSET MEASURED TO THE CENTER OF THE POLE

LUMINAIRE DETAIL



COLONIALPOST-TOP LED LUMINAIRE

SCALE: N.T.S.



DIRECT BURIAL FIBERGLASS POLE

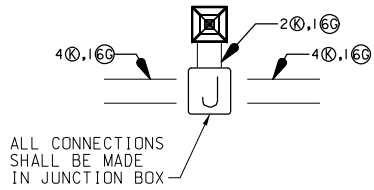
SCALE: N.T.S.

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING AND PROPOSED UTILITIES, LIGHTING CONDUITS, AND CIRCUITS PRIOR TO COMMENCING WORK.
2. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN CASE OF DAMAGE TO AN EXISTING FACILITY.
3. ALL SOIL REMOVED FOR HANDHOLE INSTALLATION MUST BE COVERED TO PREVENT EROSION. ALL SOIL NOT USED FOR BACKFILL MUST BE REMOVED ON THE SAME WORKING DAY.
4. ALL CONDUIT AND CABLE CONNECTIONS MUST MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
5. ALL TESTING SPECIFIED IN SECTION 820 OF THE SHA STANDARD SPECIFICATIONS MUST BE PREFORMED.
6. ALL CONNECTIONS BETWEEN GROUND RODS AND GROUND CABLE SHALL BE EXOTHERMIC WELDS.
7. CONDUCTORS SHALL NOT BE SPLICED EXCEPT IN STRUCTURES AND MANHOLES. ALL MANHOLES, CONDUITS UNDER PAVEMENTS, LIGHTING STRUCTURES, ETC, SHALL BE STAKED OUT AND EVERY LOCATION APPROVED BY THE ENGINEER BEFORE ANY WORK IS COMPLETED.
8. ALL TRENCHING MUST BE BACKFILLED AND RESTORED TO ITS ORIGINAL CONDITION ON THE SAME WORKING DAY ON WHICH IT WAS OPENED. AREAS WHICH ARE NOT RESEEDDED, MULCHED OR SODDED MUST BE COVERED TO PREVENT EROSION. ALL SOIL NOT USED FOR BACKFILL MUST BE REMOVED ON THE SAME WORKING DAY.
9. UPON RECEIVING NOTICE TO PROCEED THE CONTRACTOR SHALL ARRANGE A MEETING WITH THE LOCAL UTILITY COMPANY (POTOMAC EDISON POWER), THE PROJECT ENGINEER TO DETERMINE THE LOCATION OF AVAILABLE POWER AND ENSURE THAT POWER IS AVAILABLE WHEN REQUIRED.
10. ALL HANDHOLES BETWEEN LIGHTING FIXTURES AND/OR ROADWAY CROSSINGS SHALL HAVE 5 FEET OF SLACK WIRING FOR FUTURE MAINTENANCE.
11. BASE MOUNTED PEDESTAL SHALL HAVE A SPLIT PANEL TO PROVIDE PHOTO CELL CONTROL FOR THE 240V LIGHTING CIRCUITS, BUT NO PHOTO CELL CONTROL FOR THE 120V GFI CIRCUITS.
12. GFI RECEPTACLES SHALL BE WIRED WITH #10 AWG WIRE BETWEEN THE CONNECTOR KIT AND THE RECEPTACLE.

PAY ITEMS

CATEGORY CODE NO.	DESCRIPTION	UNIT	QUANTITY
800000	PEDESTRIAN POLE AND LUMINAIRE	EA	29
801003	CONCRETE FOR LIGHT FOUNDATION	CY	40
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	2400
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	2270
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	LF	120
832016	CABLE - 1 CONDUCTOR, NO 6 AWG, TYPE USE, 600V	LF	8890
832019	CABLE - 1 CONDUCTOR, NO 10 AWG, TYPE THWN/THHN, 600V	LF	1400
834002	CONNECTOR KIT - TYPE II	EA	18
834003	CONNECTOR KIT - TYPE III	EA	40
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	29



LIGHT INSTALATION DETAIL

NOT TO SCALE



APPROVALS	REVISIONS
TEAM LEADER	
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

Date

Chief, Division of Engineering Services

Date

Designed by : J.D.W.

Drawn by : J.D.W.

Checked by : S.R.R.

PLAN SHEET LT-01
LIGHTING PLANS
MD 355 - CLARKSBURG
SHARED USE PATH
NOTES AND SCHEDULES

09/2019

Project No. : C.I.P. PR. # 501744 SHEET 54 of 88

PLOTTER: 3/16/2019
FILE: M:\PROJECTS\2010\13.0010\Traffic_Cadd\pLT-0001_MD355.dgn

DRILL HOLES

DRILL HOLES

DRILL HOLES

Sequence of Events for Property Owners Required to Comply With Forest Conservation and/or Tree-Save Plans

Pre-Construction

1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged, but before any clearing or grading begins. The property owner should contact the Montgomery County Planning Department inspection staff before construction to verify the limits of disturbance and discuss tree protection and tree care measures. The developer's representative, construction superintendent, ISA certified arborist or Maryland-licensed tree expert that will implement the tree protection measures, forest conservation inspector, and Department of Permitting Services (DPS) sediment control inspector should attend this pre-construction meeting.

2. No clearing or grading shall begin before stress-reduction measures have been implemented. Appropriate measures may include, but are not limited to:

- a. Root pruning
- b. Crown reduction or pruning
- c. Watering
- d. Fertilizing
- e. Vertical mulching
- f. Root aeration matting

Measures not specified on the forest conservation plan may be required as determined by the forest conservation inspector in coordination with the arborist.

3. A Maryland-licensed tree expert or an International Society of Arboriculture-certified arborist must perform all stress reduction measures. Documentation of stress reduction measures must be either observed by the forest conservation inspector or sent to the inspector at 8787 Georgia Avenue, Silver Spring, MD 20910. The forest conservation inspector will determine the exact method to convey the stress reductions measures during the pre-construction meeting.

4. Temporary tree protection devices shall be installed per the Forest Conservation Plan/Tree Save Plan and prior to any construction activities. Tree protection fencing locations should be staked prior to the pre-construction meeting. The forest conservation inspector, in coordination with the DPS sediment control inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan. Temporary tree protect devices may include:

- a. Chain link fence (four feet high)
- b. Super silt fence with wire strung between support poles (minimum 4 feet high) with high visibility flagging
- c. 14 gauge 2 inch x 4 inch welded wire fencing supported by steel T-bar posts (minimum 4 feet high) with high visibility flagging.

5. Temporary protection devices shall be maintained and installed by the contractor for the duration of construction project and must not be altered without prior approval from the forest conservation inspector. No equipment, trucks, materials, or debris may be stored within the tree protection fence areas during the entire construction project. No vehicle or equipment access to the fenced area will be permitted. Tree protection shall not be removed without prior approval of forest conservation inspector.

6. Forest retention area signs shall be installed as required by the forest conservation inspector, or as shown on the approved plan.

7. Long-term protection devices will be installed per the Forest Conservation Plan/Tree Save Plan and attached details. Installation will occur at the appropriate time during the construction project. Refer to the plan drawing for long-term protection measures to be installed.

During Construction

8. Periodic inspections by the forest conservation inspector will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the forest conservation inspector, must be made within the timeframe established by the inspector.

Post-Construction

9. After construction is completed, an inspection shall be requested. Corrective measures may include:

- a. Removal and replacement of dead and dying trees
- b. Pruning of dead or declining limbs
- c. Soil aeration
- d. Fertilization
- e. Watering
- f. Wound repair
- g. Clean up of retention areas

10. After inspection and completion of corrective measures have been undertaken, all temporary protection devices shall be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both the Department of Permitting Services and the forest conservation inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.

LEGEND



FOREST TREELINE



SCRUB AREA/SCREENING TREES/
NON-FOREST CANOPY



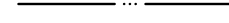
LIMITS OF DISTURBANCE



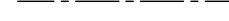
PROPERTY BOUNDARY



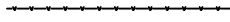
EX. CONTOUR



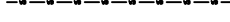
EXISTING STREAM



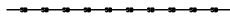
EASEMENT



WETLANDS



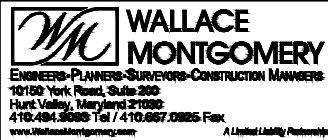
100' WETLANDS BUFFER



125' STREAM BUFFER



HISTORIC DISTRICT

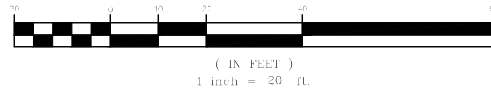


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WATER CLASS	I, P/IV, P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	200 SHEET	233NW13, 233NW12	ADC MAP PAGE	9
TAX MAP	EW341, EW121	GRID	B-3, C-3, 4		
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.1A

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOC LINE

GRAPHIC SCALE



CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

09-27-19
DATE

Michael A. Norton
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

PLAN SHEET L-1.1A
FINAL FOREST
CONSERVATION PLAN OVERALL
MD 355 - CLARKSBURG
SHARED USE PATH

07/2018

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

Project No. : C.J.P. PR. #501744

SHEET 62 of 88

DRILL HOLES

DRILL HOLES

DRILL HOLES


FOREST CONSERVATION WORKSHEET						
MD 355 - CLARKSBURG SHARED USE PATH						
5-Aug-02						
NET TRACT AREA:						
A. Total tract area ...	3.58					
B. Land dedication acres (parks, county facility, etc.) ...	0.00					
C. Land dedication for roads or utilities (not being constructed by this plan) ...	0.00					
D. Area to remain in commercial agricultural production/use ...	0.00					
E. Other deductions (specify) ...	0.00					
F. Net Tract Area	3.58					
LAND USE CATEGORY: (from Trees Technical Manual)						
Input the number "1" under the appropriate land use, limit to only one entry.						
ARA	MDR	IDA	HDR	MPD	CIA	
0	0	1	0	0	0	
G. Afforestation Threshold ...						
				15%	x F =	0.54
H. Conservation Threshold ...						
				20%	x F =	0.72
EXISTING FOREST COVER:						
I. Existing forest cover	1.18					
J. Area of forest above afforestation threshold	0.64					
K. Area of forest above conservation threshold	0.46					
BREAK EVEN POINT:						
L. Forest retention above threshold with no mitigation	0.81					
M. Clearing permitted without mitigation	0.37					
PROPOSED FOREST CLEARING:						
N. Total area of forest to be cleared	1.18					
O. Total area of forest to be retained	0.00					
PLANTING REQUIREMENTS:						
P. Reforestation for clearing above conservation threshold	0.12					
Q. Reforestation for clearing below conservation threshold	1.43					
R. Credit for retention above conservation threshold	0.00					
S. Total reforestation required	1.55					
T. Total afforestation required	0.00					
U. Credit for landscaping (may not exceed 20% of "S")	0.00					
V. Total reforestation and afforestation required	1.55					

SITE TABULATIONS:	
ACREAGE OF TRACT:	3.58
ACREAGE OF TRACT REMAINING IN AGRICULTURE:	0
ACREAGE OF ROAD AND UTILITY R/W WHICH WILL NOT BE IMPROVED AS PART OF DEV. APPLICATION:	0
ACREAGE OF EX. FOREST:	1.18
ACREAGE OF TOTAL FOREST RETENTION:	0.00
ACREAGE OF TOTAL FOREST CLEARED:	1.18
LAND USE CATEGORY:	IDA
AFFORESTATION THRESHOLD	0.59
CONSERVATION THRESHOLD	0.77
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN WETLANDS	0.00/0.02/0.00
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN 100-YEAR FLOODPLAIN	0.00/0.00/0.00
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITHIN STREAM BUFFERS	0.00/0.76/0.00
ACREAGE OF FOREST RETAINED, CLEARED, AND PLANTED WITH PRIORITY AREAS	0.00/0.00/0.00
LINEAR EXTENT & AVERAGE WIDTH OF STREAM BUFFER	342'/200'

TOTAL DBH INCHES OF SPECIMEN TREES REMOVED (OUTSIDE FOREST)
311 x 0.25 = 78 REQUIRED CALIPER INCHES MITIGATION
TOTAL DBH INCHES OF SPECIMEN TREE REMOVED ÷ 3" CALIPER TREES
= TOTAL TREES REQUIRED TO BE PLANTED
26 TOTAL 3" CALIPER TREES REQUIRED TO BE PLANTED

**WALLACE MONTGOMERY**
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21036
410.484.3600 Tel / 410.667.0825 Fax
www.wallacemontgomery.com

A Limited Liability Partnership

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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	233NW13,233NW12	ADC MAP PAGE	9
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.1

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

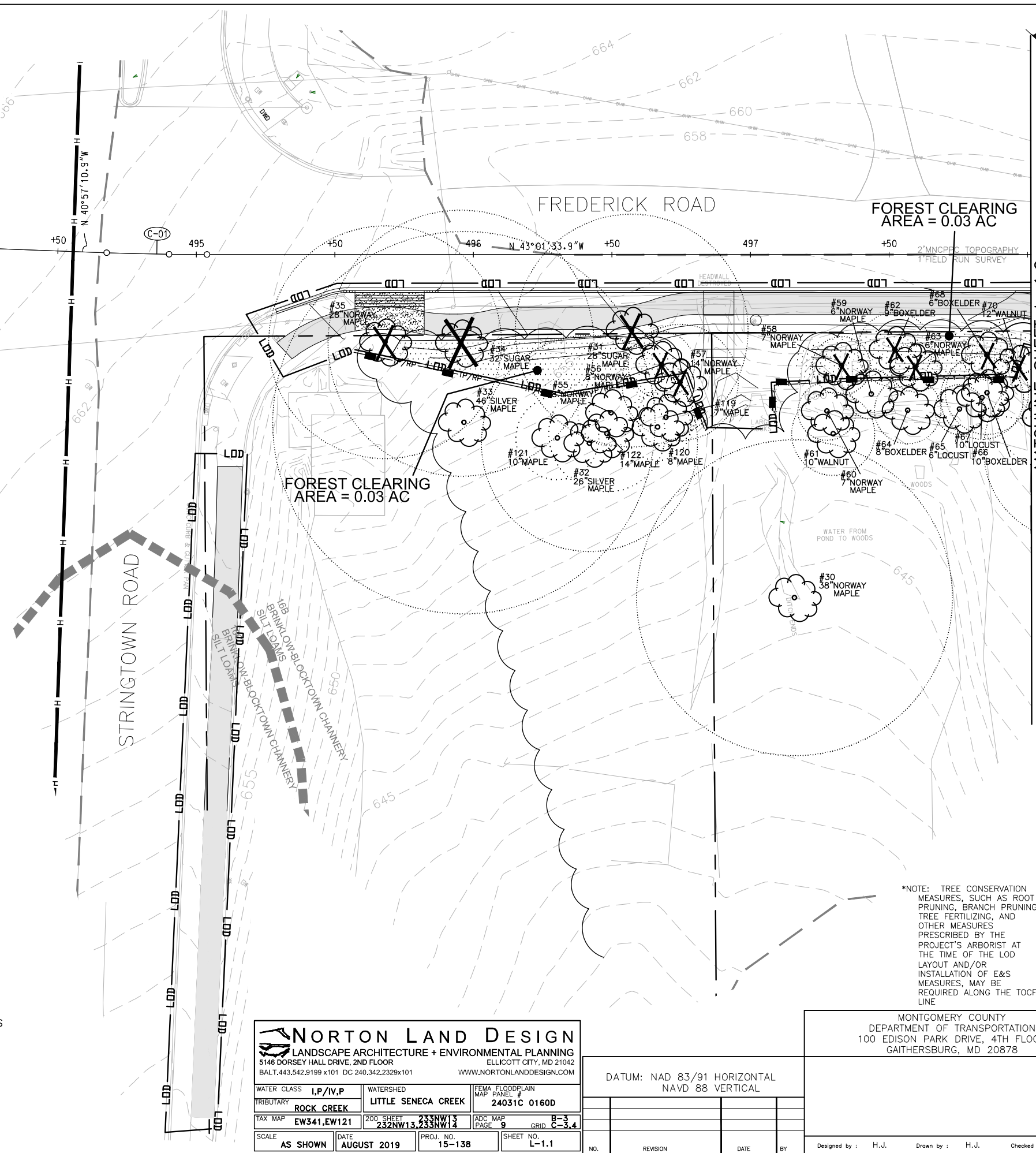
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
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GAITHERSBURG, MD 20878

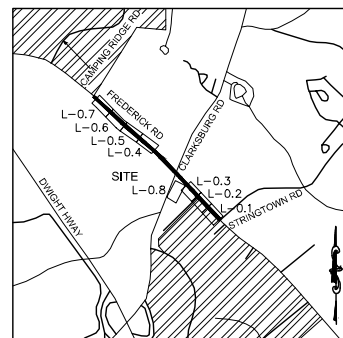
Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-1.1
FINAL FOREST CONSERVATION PLAN
MD 355 - CLARKSBURG SHARED USE PATH

Project No. : C.I.P. PR. #501744 SHEET 63 of 88

07/2018





VICINITY MAP
1"=2000'

LEGEND

- EXISTING TREE >6" AND <24"DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30"DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30"DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- HISTORIC DISTRICT
- TREE TO BE REMOVED
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- PROPOSED LIGHT POLES
- SOIL BOUNDARY

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft

CERTIFICATION OF QUALIFIED PROFESSIONAL
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9-27-2019
DATE

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

Michael A. Norton
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

DRILL HOLES


DRILL HOLES

DRILL HOLES



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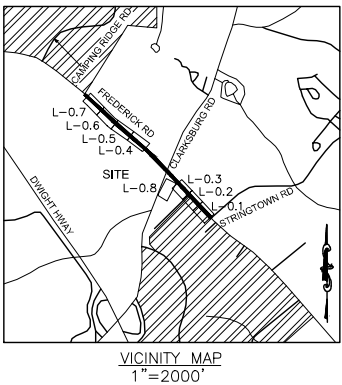
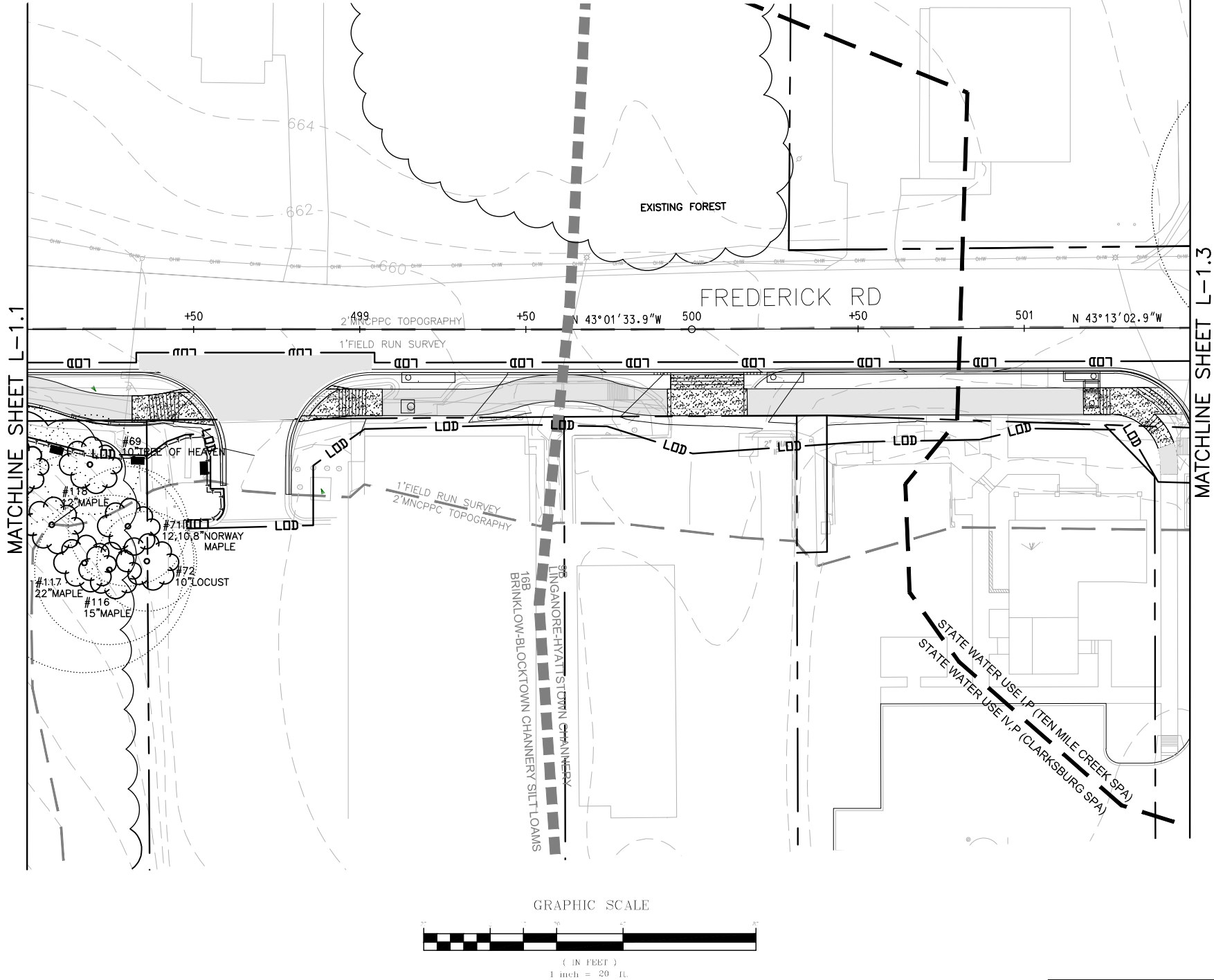
*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE



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WATER CLASS TRIBUTARY	I,P/IV,P ROCK CREEK	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TAX MAP	EW341,EW121	200 SHEET 232NW13,233NW12	ADC MAP PAGE 9 GRID B-3,4
SCALE	AS SHOWN	DATE AUGUST 2019	PROJ. NO. 15-138
		SHEET NO. L-1.2	

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878		PLAN SHEET L-1.2 FINAL FOREST CONSERVATION PLAN MD 355 - CLARKSBURG SHARED USE PATH	
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL		07/2018	
NO.	REVISION	DATE	BY
Designed by : H.J.		Drawn by : H.J.	Checked by : M.N.
Project No. : C.I.P. PR. #501744		SHEET	64 of 88



LEGEND

- EXISTING TREE >6" AND <24"DBH AND CRITICAL ROOT ZONE
- 14"RED OAK
- #1 26"RED OAK EXISTING SIGNIFICANT TREE >24" AND <30"DBH WITH TAG NUMBER
- #2 32"RED OAK EXISTING SPECIMEN TREE ≥30"DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LDD LDD LDD LIMITS OF DISTURBANCE
- 652 PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- X TREE TO BE REMOVED
- T—T—T—T—T— TREE PROTECTION FENCE (TEMPORARY)
- TP/RP— TP/RP— TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED SHARED USE PATH
- PROPOSED LIGHT POLES

CERTIFICATION OF QUALIFIED PROFESSIONAL
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9-27-2019
DATE
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL



EXISTING SPECIMEN TREE $\geq 30"$ DBH
WITH TAG NUMBER

SCRUB AREA/SCREENING TREES/
NON-FOREST CANOPY

—LDD —LDD —LDD — LIMITS OF DISTURBANCE

PROPOSED GRADE

PROPERTY BOUNDARY

EX. CONTOUR

EXISTING STREAM

EASEMENT

HISTORIC DISTRICT

TREE TO BE REMOVED

—T—T—T—T—T—T—T— TREE PROTECTION
FENCE (TEMPORARY)

————TP/RP———— TP/RP———— TEMPORARY COMBINED ROOT PRUNE
TRENCH/TREE PROTECTION FENCE

TEMPORARY TREE PROTECTION
SIGNAGE (APPROX. 20' O.C.)

FOREST CLEARING AREA

PROPOSED SHARED USE PATH

PROPOSED LIGHT POLES

16D
BRINKLOW

2UB
GLENELG

SOIL BOUNDARY

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCP&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9-27-2019
DATE

NEA

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

PLAN SHEET L-1.3
FINAL FOREST
CONSERVATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

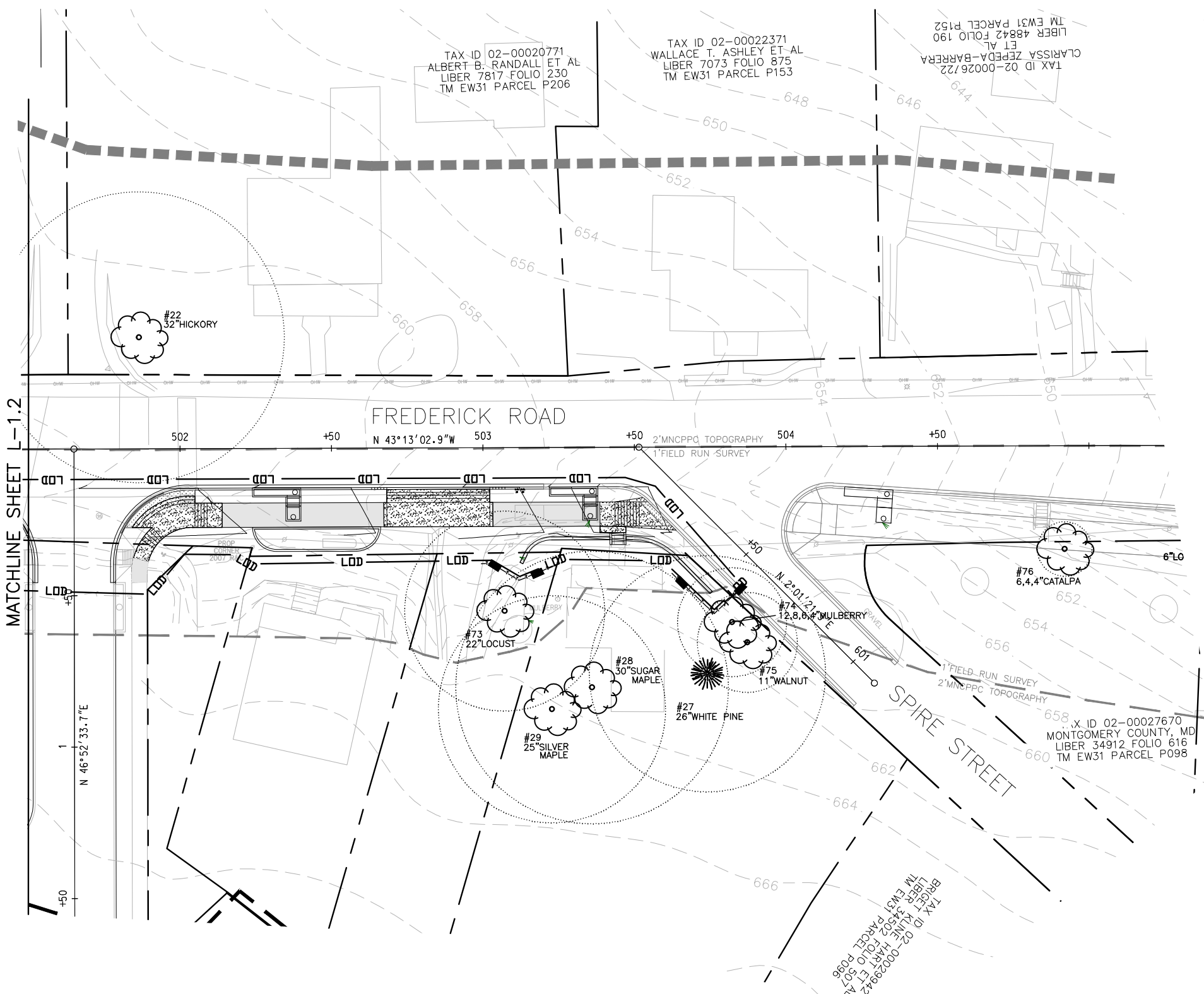
7/2018

Project No. : C.I.P. PR. #501744

SHEET 65

88

65



GRAPHIC SCALE



(IN FEET)
inch = 20 ft.

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WWW.NORTONLANDDESIGN.COM

WATER CLASS I,P,IV,P		WATERSHED LITTLE SENECA CREEK		FEMA FLOODPLAIN MAP PANEL # 24031C 0160D	
TRIBUTARY ROCK CREEK					
TAX MAP EW341,EW121		200 SHEET 232NW13,233NW14		ADC MAP PAGE 9 GRID B-3 C-3.4	
SCALE AS SHOWN		DATE AUGUST 2019		SHEET NO. L-1.3	
		PROJ. NO. 15-138			

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

Project No. : C.I.P. PR. #501744

SHEET 65

88

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

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DRILL HOLES

DRILL HOLES

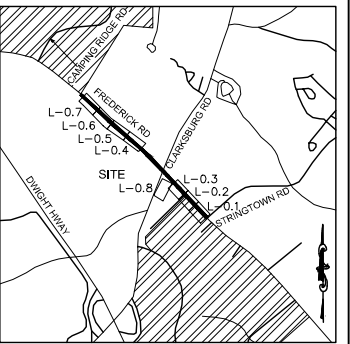
DRILL HOLES

LEGEND

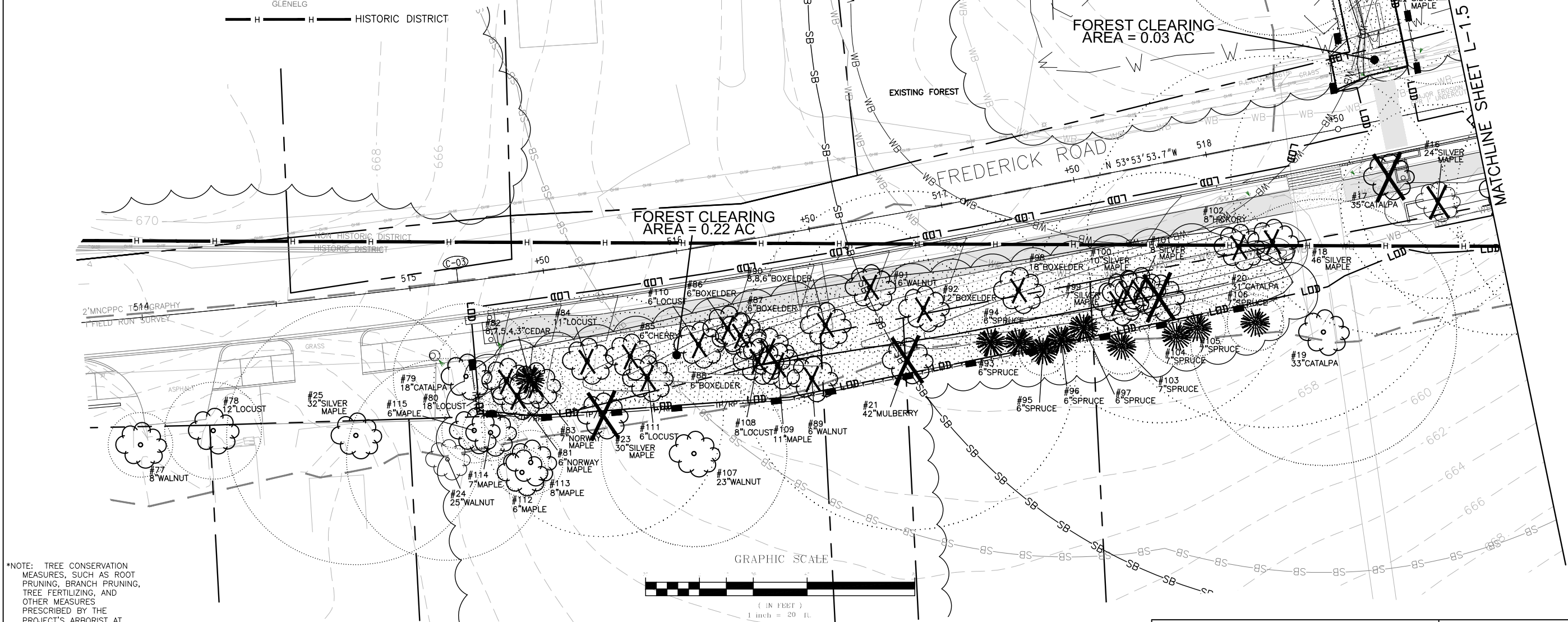
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TREE TO BE REMOVED
- SOIL BOUNDARY
- HISTORIC DISTRICT

- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)
- FOREST CLEARING AREA
- PROPOSED TRAIL
- HISTORIC DISTRICT
- 25' STATE REGULATED WETLAND BUFFER
- 75' SPA WETLAND BUFFER
- STREAM BUFFER
- EXISTING WETLAND

PROPOSED LIGHT POLES



VICINITY MAP
1"=2000'



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE.

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&P AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9-27-2019
DATE

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

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LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
5146 DORSEY HALL DRIVE, 2ND FLOOR
BALT. 443.542.9199 x101 DC 240.342.2329x101
ELLICOTT CITY, MD 21042
WWW.NORTONLANDDESIGN.COM

WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	232NW13,233NW12	ABC MAP PAGE	9 GRID B-3, C-3,4
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.4

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

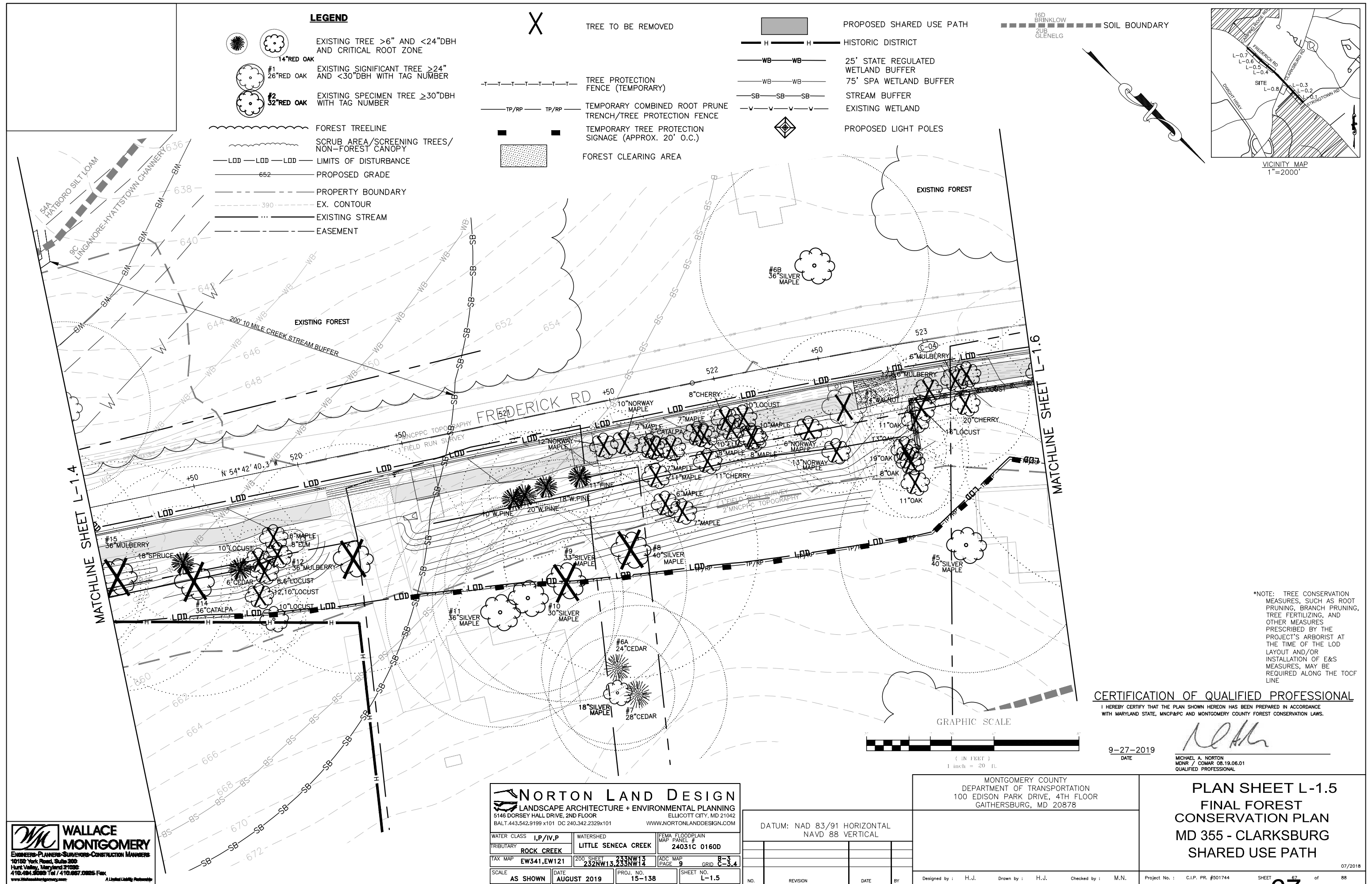
Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-1.4
FINAL FOREST
CONSERVATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744

SHEET 66 of 88

DRILL HOLES



LEGEND

- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
- EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER
- EXISTING SPECIMEN TREE ≥30" DBH WITH TAG NUMBER
- FOREST TREELINE
- SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT



TREE TO BE REMOVED

TREE PROTECTION FENCE (TEMPORARY)

TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE

TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

FOREST CLEARING AREA



PROPOSED SHARED USE PATH

HISTORIC DISTRICT

25' STATE REGULATED WETLAND BUFFER

75' SPA WETLAND BUFFER

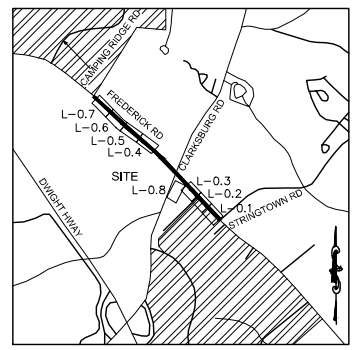
STREAM BUFFER

EXISTING WETLAND



PROPOSED LIGHT POLES

16D BRINKLOW
2UB GLENELG
SOIL BOUNDARY



VICINITY MAP
1"=2000'

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCP&C AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9-27-2019
DATE

Michael A. Norton

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 200
Hunt Valley, Maryland 21036
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NORTON LAND DESIGN
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
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BALT. 443.542.9199 x101 DC 240.342.2329x101
ELLICOTT CITY, MD 21042
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WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK		
TAX MAP EW341,EW121	200 SHEET 232NW13,233NW12	ADC MAP PAGE 9 GRID B-3,4
SCALE AS SHOWN	DATE AUGUST 2019	PROJ. NO. 15-138
		SHEET NO. L-1.5

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

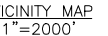
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-1.5
FINAL FOREST
CONSERVATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.J.P. RP. #501744 SHEET 67 of 88

DRILL HOLES



14"RED OAK

#1
26"RED OAK

#2
32"RED OAK

EXISTING SPECIMEN TREE $\geq 30"$ DBH
WITH TAG NUMBER

SCRUB AREA/SCREENING TREES/
NON-FOREST CANOPY


EASEMENT

X

—T—T—T—T—T—T—T—

_____TP/RP_____ TP/RP_____

— 100 —



Page 10

WP WP

IND IND

—SB—SB—SB—

$$\text{---W---W---W---W---}$$

16D
BRINKLOW
2UB
GLENELG

2018

SHEET 68

of 88

68



(IN FEET)
1 inch = 20 ft.

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCP&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

WATER CLASS I,P/IV,P		WATERSHED LITTLE SENECA CREEK		FEMA FLOODPLAIN MAP PANEL # 24031C 0160D	
TRIBUTARY ROCK CREEK					
TAX MAP EW341,EW121		200 SHEET 232NW13, 233NW14, 232NW15, 233NW14		ADC MAP PAGE 9	
SCALE AS SHOWN		DATE AUGUST 2019		SHEET NO. L-1.6	

NO	REVISION	DATE	BY
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Designed by : H.J. Drawn by : H.J. Checked by : M.N.

DRILL HOLES

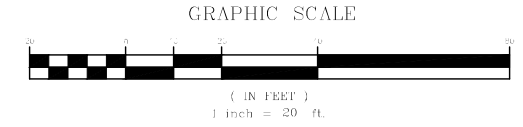
MATCHLINE SHEET L-1.6

*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE




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www.wallacemontgomery.com

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CERTIFICATION OF QUALIFIED PROFESSIONAL
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9-27-2019
DATE


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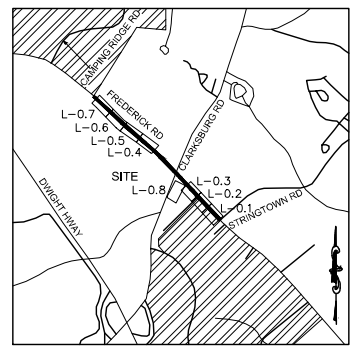
WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	233NW13, 232NW13, 233NW12	ADC MAP PAGE	9 GRID B-3, 4
SCALE	AS SHOWN	DATE	AUGUST 2019	PROJ. NO.	15-138
				SHEET NO.	L-1.7

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878


PLAN SHEET L-1.7
FINAL FOREST CONSERVATION PLAN
MD 355 - CLARKSBURG SHARED USE PATH

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL	Designed by : H.J.	Drawn by : H.J.	Checked by : M.N.	Project No. : C.I.P. PR. #501744	SHEET 69 of 88
NO. REVISION DATE BY					


07/2018




LEGEND




EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE




#1 26" RED OAK
EXISTING SIGNIFICANT TREE >24" AND <30" DBH WITH TAG NUMBER




#2 32" RED OAK
EXISTING SPECIMEN TREE >=30" DBH WITH TAG NUMBER




FOREST TREELINE




SCRUB AREA/SCREENING TREES/ NON-FOREST CANOPY




LOD LOD LOD LIMITS OF DISTURBANCE




652 PROPOSED GRADE




PROPERTY BOUNDARY




390 EX. CONTOUR



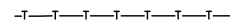
EXISTING STREAM



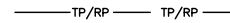
EASEMENT




TREE TO BE REMOVED




TREE PROTECTION FENCE (TEMPORARY)



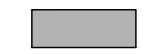
TP/RP TP/RP TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE



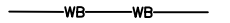
TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)



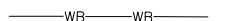
FOREST CLEARING AREA



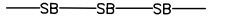
PROPOSED SHARED USE PATH



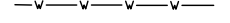
WB WB 25' STATE REGULATED WETLAND BUFFER




WB WB 75' SPA WETLAND BUFFER




SB SB STREAM BUFFER



EXISTING WETLAND

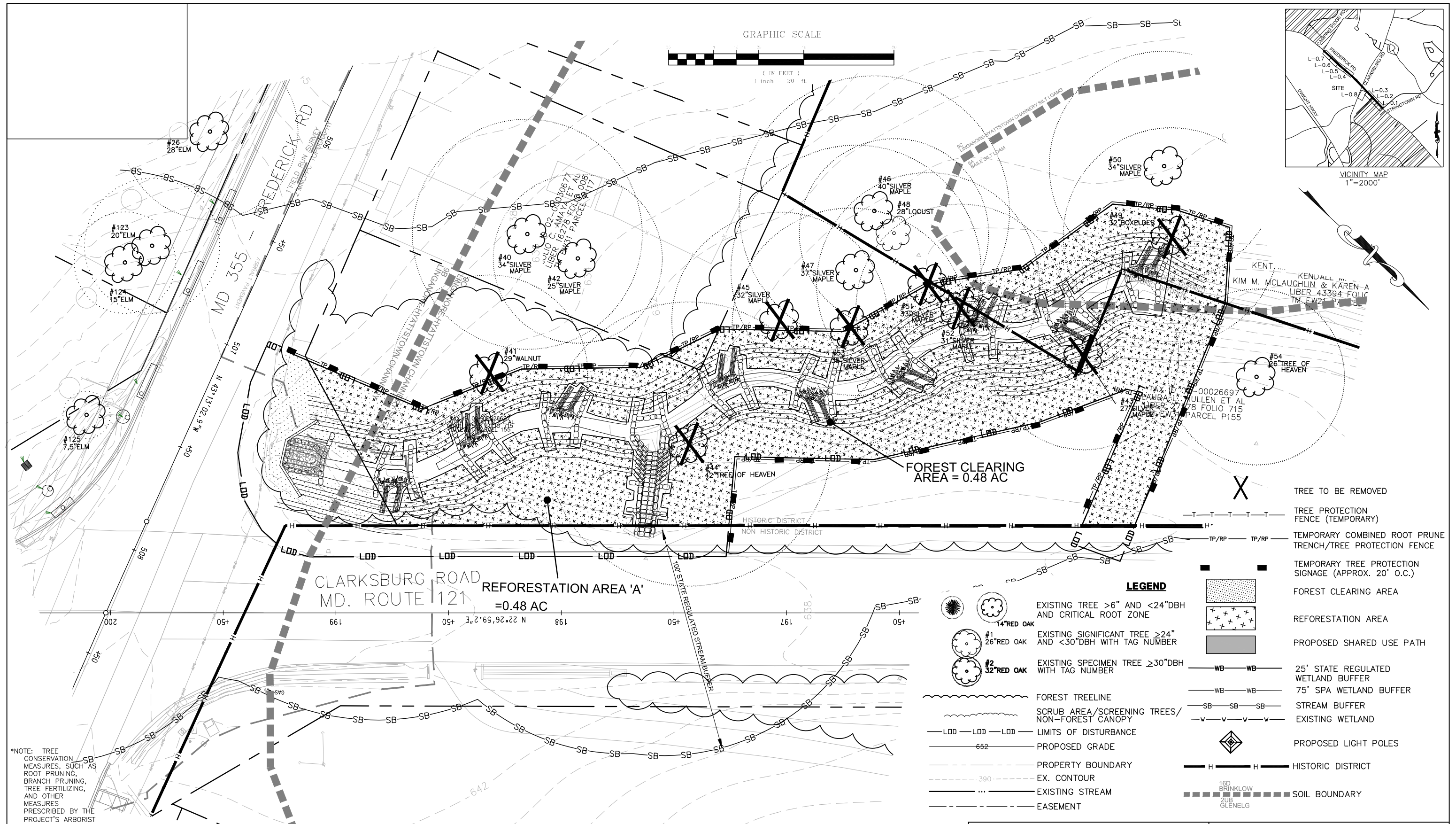


PROPOSED LIGHT POLES



16D BRINKLOW
2UB GLENELG
SOIL BOUNDARY

DRILL HOLES



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

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9-27-19
DATE

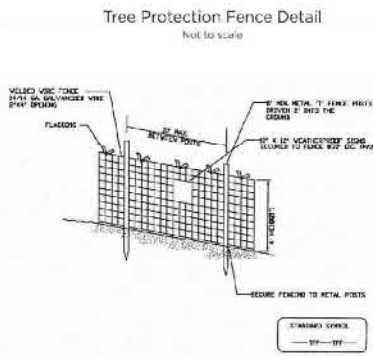
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
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NORTON LAND DESIGN
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WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK		
TAX MAP EW341,EW121	200 SHEET 232NW13,233NW12	ADC MAP PAGE 9 GRID B-3, C-3,4
SCALE AS SHOWN	DATE AUGUST 2019	PROJ. NO. 15-138
		SHEET NO. L-1.8

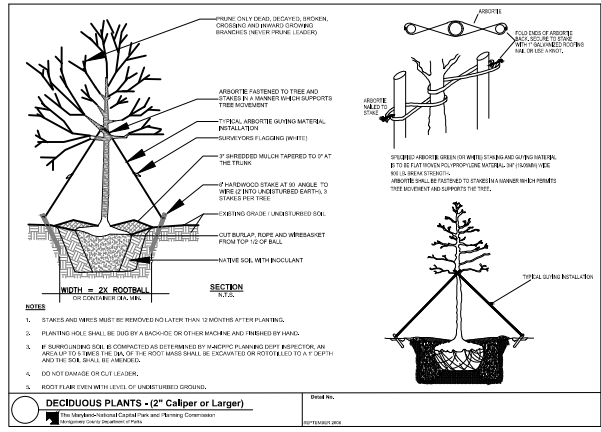
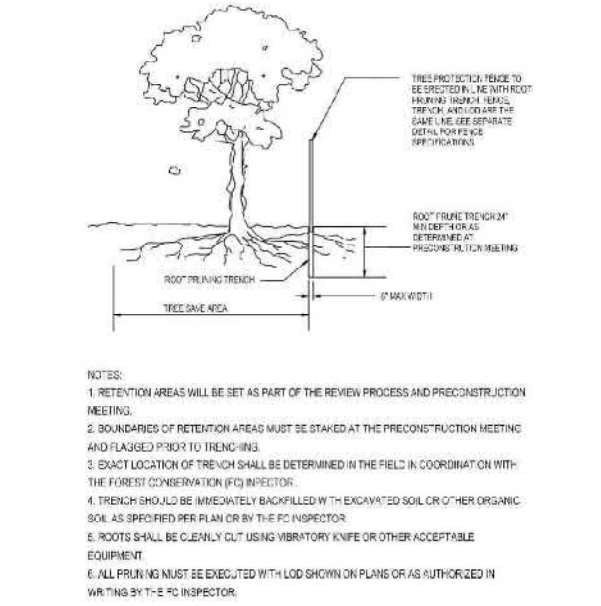
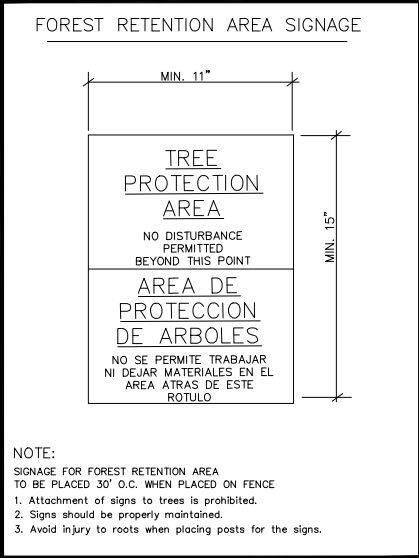
MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878			PLAN SHEET L-1.8 FINAL FOREST CONSERVATION PLAN MD 355 - CLARKSBURG SHARED USE PATH	
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			Project No.: C.I.P. PR. #501744 SHEET 70 of 88	
Designed by: H.J. Drawn by: H.J. Checked by: M.N.			07/2018	

Significant/Specimen Tree Summary 24"									
Tree #	Species	Species	D.B.H.	Critical Root Zone	Critical Root Zone	Percent of CRZ	Tree	Comments	Status
Scientific Name	Common Name	(Inches)	Zone (Sq.Ft)	Impacts	Impacted (Sq.Ft)	Condition			Variance
1	PRUNUS SEROTINA	BLACK CHERRY	30	6362	897	14%	POOR	VINE BROKEN BRANCHES/ SPLIT @ 2'	SAVE AND PROTECT
2	CATALPA SPECIOSA	CATALPA	26	4778	4778	100%	POOR	VINE COVERED, DEAD BRANCHES	TO BE REMOVED
3	ROBINIA PSEUDOACACIA	BLACK LOCUST	25	4778	4778	100%	POOR	VINE COVERED, DEAD BRANCHES	TO BE REMOVED
4	ACER SA COCHARNUM	SILVER MAPLE	49	18972	18972	100%	FAIR	VINE COVERED	TO BE REMOVED
5	ACER SA COCHARNUM	SILVER MAPLE	40	11310	3300	29%	GOOD		SAVE AND PROTECT
6A	ULMUS SP.	ELM	21	4072	0	0%	FAIR		SAVE AND PROTECT
6B	ACER SA COCHARNUM	SILVER MAPLE	36	9161	292	3%	FAIR		SAVE AND PROTECT
7	JUNIPERUS SP.	CEDEAR SP.	28	5542	0	0%	GOOD	SPLIT @ 3'	SAVE AND PROTECT
8	ACER SA COCHARNUM	SILVER MAPLE	40	11310	11310	100%	POOR	VINE COVERED, DEAD BRANCHES	TO BE REMOVED
9	ACER SA COCHARNUM	SILVER MAPLE	33	7888	7888	100%	GOOD	SPLIT @ 5'	TO BE REMOVED
10	ACER SA COCHARNUM	SILVER MAPLE	30	6362	2570	40%	GOOD		SAVE AND PROTECT
11	ACER SA COCHARNUM	SILVER MAPLE	36	9161	3279	36%	GOOD		SAVE AND PROTECT
12	MORUS SP.	MULBERRY SP.	24	4072	0	0%	POOR	TRUNK DAMAGED	TO BE REMOVED
13	JUGLANS NIGRA	BLACK WALNUT	24	4072	4072	100%	FAIR	MAJOR PRUNING, CHW	TO BE REMOVED
14	CATALPA SPECIOSA	CATALPA	36	9161	9161	100%	FAIR	18" LEADER SPLITS @ 2'	TO BE REMOVED
15	MORUS SP.	MULBERRY SP.	36	9161	9161	100%	POOR	PRUNED LEADER, VINES	TO BE REMOVED
16	ACER SA COCHARNUM	SILVER MAPLE	24	4072	4072	100%	POOR	TRUNK DAMAGED, BROKEN LEADER, DEAD BRANCHES	TO BE REMOVED
17	CATALPA SPECIOSA	CATALPA	36	8859	8859	100%	POOR	VINE COVERED, PRUNED, CHW	TO BE REMOVED
18	ACER SA COCHARNUM	SILVER MAPLE	46	14857	14857	100%	POOR	MAJOR PRUNING, CHW	TO BE REMOVED
19	CATALPA SPECIOSA	CATALPA	33	7688	2774	37%	FAIR	MAJOR LEADER PRUNED, HEAVY PRUNING CHW	SAVE AND PROTECT
20	CATALPA SPECIOSA	CATALPA	31	6783	6783	100%	FAIR		TO BE REMOVED
21	MORUS SP.	MULBERRY SP.	42	12469	12469	100%	FAIR	SPLIT @ 2', 30" LEADER, 42" LEADER	TO BE REMOVED
22	CARYA SP.	HICKORY SP.	32	7238	16	<1%	GOOD	OFF SITE	SAVE AND PROTECT
23	ACER SA COCHARNUM	SILVER MAPLE	30	6362	6362	100%	POOR	TRUNK DAMAGED, VINE, BROKEN BRANCHES	TO BE REMOVED
24	JUGLANS NIGRA	BLACK WALNUT	25	4418	204	5%	FAIR	VINES	SAVE AND PROTECT
25	ACER SA COCHARNUM	SILVER MAPLE	32	7238	4	0%	FAIR	MIDDLE LEADER PRUNED 10' UP, CHW	SAVE AND PROTECT
26	ULMUS SP.	ELM	25	5542	0	0%	GOOD		SAVE AND PROTECT
27	PRUNUS SIBIRICA	WHITE PINE	36	4778	238	5%	FAIR	VINES, BROKEN BRANCHES	SAVE AND PROTECT
28	ACER SA COCHARNUM	SILVER MAPLE	30	6362	87	1%	GOOD	SPLITS @ 5'	SAVE AND PROTECT
29	ACER SA COCHARNUM	SILVER MAPLE	35	4418	0	0%	GOOD		SAVE AND PROTECT
30	ACER PLATANOIDES	NORWAY MAPLE	38	10207	0	0%	POOR	SPLITS @ 8', BROKEN BRANCHES, VINES, LITTLE GROWTH	SAVE AND PROTECT
31	ACER SA COCHARNUM	SILVER MAPLE	38	5542	5542	100%	POOR	VINE, CHW	TO BE REMOVED
32	ACER SA COCHARNUM	SILVER MAPLE	46	4778	859	17%	FAIR	SPLITS @ 5'	SAVE AND PROTECT
33	ACER SA COCHARNUM	SILVER MAPLE	46	14857	14857	100%	POOR	COVERED IN VINES, BROKEN BRANCHES	SAVE AND PROTECT
34	ACER SA COCHARNUM	SILVER MAPLE	32	7238	7238	100%	FAIR	BROKEN BRANCHES, CHW, VINES	TO BE REMOVED
35	ACER PLATANOIDES	NORWAY MAPLE	38	5542	5542	100%	POOR	DEAD LIMBS	TO BE REMOVED
36	ACER PLATANOIDES	NORWAY MAPLE	36	4778	4778	100%	FAIR	SPLIT @ 4', 14", 12"	TO BE REMOVED
37	ACER SA COCHARNUM	SILVER MAPLE	27	5153	153	3%	GOOD	SPLIT @ 2', 8", 17"	SAVE AND PROTECT
38	ACER SA COCHARNUM	SILVER MAPLE	27	5153	732	14%	GOOD	VINE, SPLIT @ 4', 12", 12"	SAVE AND PROTECT
39	VOID	VOID	1000	1000	1000	100%	VOID	VOID	VOID
40	ACER SA COCHARNUM	SILVER MAPLE	34	8171	0	0%	GOOD		SAVE AND PROTECT
41	JUGLANS NIGRA	BLACK WALNUT	26	5542	2847	51%	POOR	VINE	TO BE REMOVED
42	ACER SA COCHARNUM	SILVER MAPLE	26	4418	0	0%	GOOD		SAVE AND PROTECT
43	ACER SA COCHARNUM	SILVER MAPLE	26	5542	5542	100%	POOR		TO BE REMOVED
44	AILANTHUS ALTISSIMA	TREE OF HEAVEN	42	12469	12469	100%	POOR	MISSING BARK, VINE	TO BE REMOVED
45	ACER SA COCHARNUM	SILVER MAPLE	32	7238	3200	44%	GOOD		TO BE REMOVED
46	ACER SA COCHARNUM	SILVER MAPLE	40	11310	11310	100%	GOOD	SPLIT @ 4', 18", 20"	SAVE AND PROTECT
47	ACER SA COCHARNUM	SILVER MAPLE	37	18972	18972	100%	GOOD	COVERED IN VINES, BROKEN BRANCHES	SAVE AND PROTECT
48	ROBINIA PSEUDOACACIA	BLACK LOCUST	26	5542	542	10%	GOOD		SAVE AND PROTECT
49	ACER NEGUNDO	BOXELDER	32	7238	7238	100%	GOOD		TO BE REMOVED
50	ACER SA COCHARNUM	SILVER MAPLE	34	8171	1736	21%	GOOD	SPLIT @ 1', 12", 18"	SAVE AND PROTECT
51	ACER SA COCHARNUM	SILVER MAPLE	33	7888	7888	100%	GOOD		TO BE REMOVED
52	ACER SA COCHARNUM	SILVER MAPLE	31	6783	6783	100%	GOOD		TO BE REMOVED
53	ACER SA COCHARNUM	SILVER MAPLE	35	8659	8659	100%	POOR	MISSING BARK	TO BE REMOVED
54	AILANTHUS ALTISSIMA	TREE OF HEAVEN	26	4778	254	5%	GOOD		SAVE AND PROTECT
55	ACER SA COCHARNUM	SILVER MAPLE	8	452	452	100%	GOOD		TO BE REMOVED
56	ACER SA COCHARNUM	NORWAY MAPLE	14	1385	848	61%	GOOD		TO BE REMOVED
57	ACER SA COCHARNUM	NORWAY MAPLE	7	346	346	100%	GOOD		TO BE REMOVED
58	ACER SA COCHARNUM	NORWAY MAPLE	6	254	30	12%	GOOD		SAVE AND PROTECT
59	ACER SA COCHARNUM	NORWAY MAPLE	7	346	0	0%	GOOD		SAVE AND PROTECT
60	JUGLANS NIGRA	BLACK WALNUT	10	707	0	0%	GOOD		SAVE AND PROTECT
61	ACER NEGUNDO	BOXELDER	5	573	573	100%	GOOD		TO BE REMOVED
62	ACER NEGUNDO	BOXELDER	6	254	254	100%	GOOD		TO BE REMOVED
63	ACER NEGUNDO	BOXELDER	6	452	0	0%	GOOD		SAVE AND PROTECT
64	ACER NEGUNDO	BOXELDER	6	452	0	0%	GOOD		SAVE AND PROTECT
65	ROBINIA PSEUDOACACIA	BLACK LOCUST	6	254	0	0%	GOOD		SAVE AND PROTECT
66	ACER NEGUNDO	BOXELDER	10	707	158	22%	GOOD		SAVE AND PROTECT
67	ROBINIA PSEUDOACACIA	BLACK LOCUST	10	707	120	17%	GOOD		SAVE AND PROTECT
68	ACER NEGUNDO	BOXELDER	6	254	254	100%	GOOD		TO BE REMOVED
69	AILANTHUS ALTISSIMA	TREE OF HEAVEN	10	707	231	33%	GOOD		SAVE AND PROTECT
70	JUGLANS NIGRA	BLACK WALNUT	12	1018	1018	100%	GOOD		TO BE REMOVED
71	ACER SA COCHARNUM	NORWAY MAPLE	12	1018	0	0%	GOOD		SAVE AND PROTECT
72	ROBINIA PSEUDOACACIA	BLACK LOCUST	10	707	0	0%	GOOD		SAVE AND PROTECT
73	ROBINIA PSEUDOACACIA	BLACK LOCUST	22	3421	719	21%	GOOD		SAVE AND PROTECT
74	MORUS SP.	MULBERRY SP.	12	1018	128	12%	GOOD		SAVE AND PROTECT
75	JUGLANS NIGRA	BLACK WALNUT	11	855	0	0%	GOOD		SAVE AND PROTECT
76	CATALPA SPECIOSA	CATALPA	5	254	0	0%	GOOD		SAVE AND PROTECT
77	JUGLANS NIGRA	BLACK WALNUT	8	452	0	0%	GOOD		SAVE AND PROTECT
78	ROBINIA PSEUDOACACIA	BLACK LOCUST	12	1018	0	0%	GOOD		SAVE AND PROTECT
79	CATALPA SPECIOSA	CATALPA	18	2290	783	34%	GOOD		SAVE AND PROTECT
80	ROBINIA PSEUDOACACIA	BLACK LOCUST	18	2290	2290	100%	GOOD		TO BE REMOVED
81	ACER SA COCHARNUM	NORWAY MAPLE	8	254	254	100%	GOOD		TO BE REMOVED
82	JUNIPERUS SP.	CEDEAR SP.	8	452	452	100%	GOOD		TO BE REMOVED
83	ACER SA COCHARNUM	NORWAY MAPLE	7	346	346	100%	GOOD		TO BE REMOVED
84	ROBINIA PSEUDOACACIA	BLACK LOCUST	11	855	855	100%	GOOD		TO BE REMOVED
85	PRUNUS SP.	CHERRY SP.	6	254	254	100%	GOOD		TO BE REMOVED
86	ACER NEGUNDO	BOXELDER	6	254	254	100%	GOOD		TO BE REMOVED
87	ACER NEGUNDO	BOXELDER	6	254	254	100%	GOOD		TO BE REMOVED
88	ACER NEGUNDO	BOXELDER	6	254	254	100%	GOOD		TO BE REMOVED
89	JUGLANS NIGRA	BLACK WALNUT	8	254	254	100%	GOOD		TO BE REMOVED
90	ACER NEGUNDO	BOXELDER	8	452	452	100%	GOOD		TO BE REMOVED
91	JUGLANS NIGRA	BLACK WALNUT	16	1810	1810	100%	GOOD		TO BE REMOVED
92	ACER NEGUNDO	BOXELDER	12	1018	1018	100%	GOOD		TO BE REMOVED
93	PICCA SP.	SPRUCE	6	254	254	100%	GOOD		TO BE REMOVED
94	PICCA SP.	SPRUCE	6	254	254	100%	GOOD		TO BE REMOVED
95	PICCA SP.	SPRUCE	6	254	254	100%	GOOD		TO BE REMOVED
96	PICCA SP.	SPRUCE	6	254	254	100%	GOOD		TO BE REMOVED
97	PICCA SP.	SPRUCE	6	254	254	100%	GOOD		TO BE REMOVED
98	ACER NEGUNDO	BOXELDER	18	2290	2290	100%	GOOD		TO BE REMOVED
99	ACER SA COCHARNUM	SILVER MAPLE	7	346	346	100%	GOOD		TO BE REMOVED
100	ACER SA COCHARNUM	SILVER MAPLE	10	707	707	100%	GOOD		TO BE REMOVED
101	ACER SA COCHARNUM	SILVER MAPLE	8	452	452	100%	GOOD		TO BE REMOVED
102	CARYA SP.	HICKORY SP.	8	452	452	100%	GOOD		TO BE REMOVED
103	PICCA SP.	SPRUCE	7	346	62	18%	GOOD		SAVE AND PROTECT
104	PICCA SP.	SPRUCE	7	346	53	15%	GOOD		SAVE AND PROTECT
105	PICCA SP.	SPRUCE	7	346	80	23%	GOOD		SAVE AND PROTECT
106	PICCA SP.	SPRUCE	7	346	55	16%	GOOD		SAVE AND PROTECT
107	JUGLANS NIGRA	BLACK WALNUT	23	3739	668	18%	GOOD		SAVE AND PROTECT
108	ROBINIA PSEUDOACACIA	BLACK LOCUST	8	452	452	100%	GOOD		TO BE REMOVED
109	ACER SP.	MAPLE SP.	11	855	855	100%	GOOD		TO BE REMOVED
110	ROBINIA PSEUDOACACIA	BLACK LOCUST	6	254	254	100%	GOOD		TO BE REMOVED
111	ROBINIA PSEUDOACACIA	BLACK LOCUST	6	254	254	100%	GOOD		TO BE REMOVED
112	ACER SP.	MAPLE SP.	7	346	0	0%	GOOD		SAVE AND PROTECT
113	ACER SP.	MAPLE SP.	6	452	0	0%	GOOD		SAVE AND PROTECT
114	ACER SP.	MAPLE SP.	7	346	24	7%	GOOD		SAVE AND PROTECT
115	ACER SP.	MAPLE SP.	6	254	24	9%	GOOD		SAVE AND PROTECT
116	ACER SP.	MAPLE SP.	18	1018	0	0%	GOOD		SAVE AND PROTECT
117	ACER SP.	MAPLE SP.	22	3421	0	0%	GOOD		SAVE AND PROTECT
118	ACER SP.	MAPLE SP.	12	1018	0	0%	GOOD		SAVE AND PROTECT
119	ACER SP.	MAPLE SP.	7	346	0	0%	GOOD		SAVE AND PROTECT
120	ACER SP.	MAPLE SP.	6	452	0	0%	GOOD		SAVE AND PROTECT
121	ACER SP.	MAPLE SP.	10	707	0	0%	GOOD		SAVE AND PROTECT
122	ACER SP.	MAPLE SP.	14	1385	68	5%	GOOD		SAVE AND PROTECT
123	ULMUS SP.	ELM	30	2827	0	0%	GOOD		SAVE AND PROTECT
124	ULMUS SP.	ELM	15	1080	0	0%	GOOD		SAVE AND PROTECT
125	ULMUS SP.	ELM	7	346	0	0%	GOOD		SAVE AND PROTECT



- NOTES:
- Practice may be combined with sediment control fencing.
 - Location and limits of fencing should be coordinated in field with arborist.
 - Boundaries of protection area should be staked prior to installing protective device.
 - Root damage should be avoided.
 - Protection signage is required.
 - Fencing shall be maintained throughout construction.

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org



CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&P&C AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

9-27-19
DATE

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

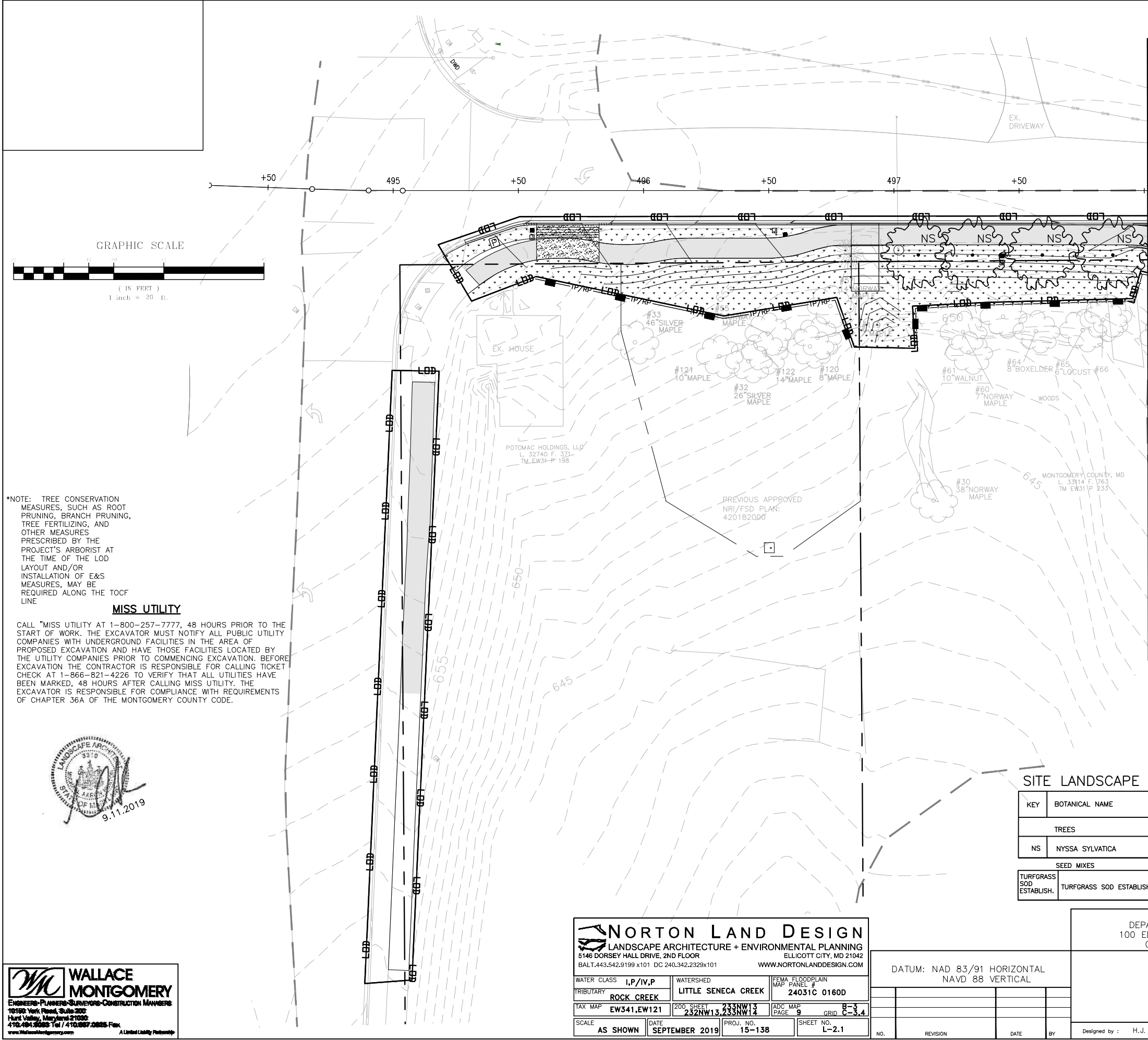
PROPOSED LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY
TREES						
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	13
PA	PLATANUS X ACERIFOLIA	LONDON PLANETREE	2" CAL.	B&B	SHOWN	12
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL	B&B	SHOWN	1

DRILL HOLES

DRILL HOLES

DRILL HOLES



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

MISS UTILITY

CALL "MISS UTILITY AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.



WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 300
Hunt Valley, Maryland 21036
410-484-5555 Tel / 410-667-2825 Fax
www.wallacemontgomery.com A Limited Liability Partnership

NORTON LAND DESIGN
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
5146 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042
BALT.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	ADC MAP PAGE	9	GRID	B-3, C-3,4
TAX MAP	EW341,EW121	200 SHEET	232NW13,233NW14	SCALE	AS SHOWN
DATE	SEPTEMBER 2019	PROJ. NO.	15-138	SHEET NO.	L-2.1

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

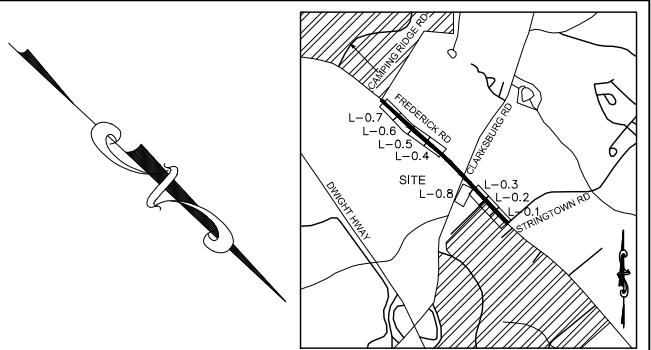
Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-2.1
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

07/2018

Project No. : C.J.P. PR. #501744 SHEET 72 of 88



LEGEND

- 14"RED OAK EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
SEE FOREST CONSERVATION PLAN FOR FOREST
CLEARING & REFORESTATION INFORMATION.

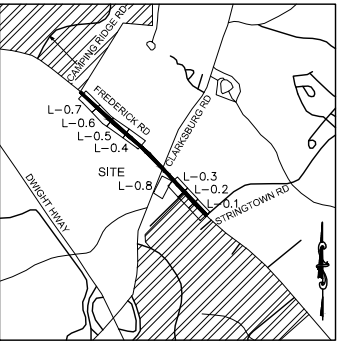
SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	4	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS			TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226 STABILIZATION

DRILL HOLES

SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES						
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION

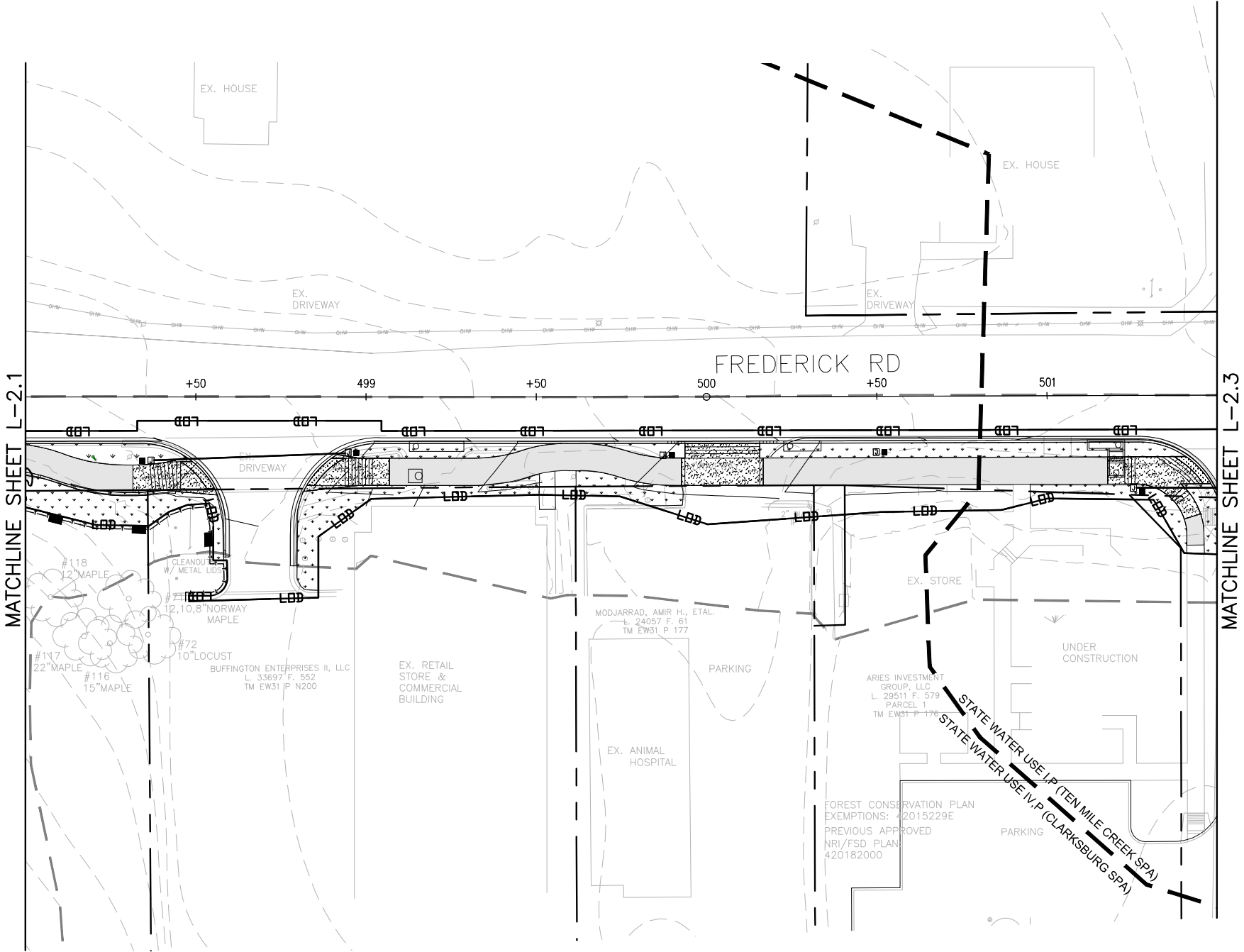


VICINITY MAP
1"=2000'

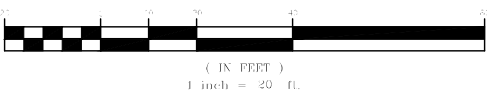
LEGEND

- 14"RED OAK EXISTING TREE
- LDD LDD LDD LIMITS OF DISTURBANCE
- 652 PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
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CLEARING & REFORESTATION INFORMATION.



GRAPHIC SCALE



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

MISS UTILITY

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BALt.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM

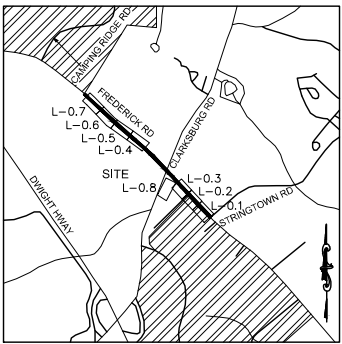
WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	232NW13,233NW12	ADC MAP PAGE	9 GRID B-3, C-3,4
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.2

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878		PLAN SHEET L-2.2 LANDSCAPE PLAN	
						MD 355 - CLARKSBURG SHARED USE PATH	
						07/2018	
NO.	REVISION	DATE	BY	Designed by :	H.J.	Drawn by :	H.J.
				Checked by :	M.N.	Project No. :	C.J.P. PR. #501744
						SHEET	73 of 88

DRILL HOLES

DRILL HOLES

DRILL HOLES



VICINITY MAP
1"=2000'

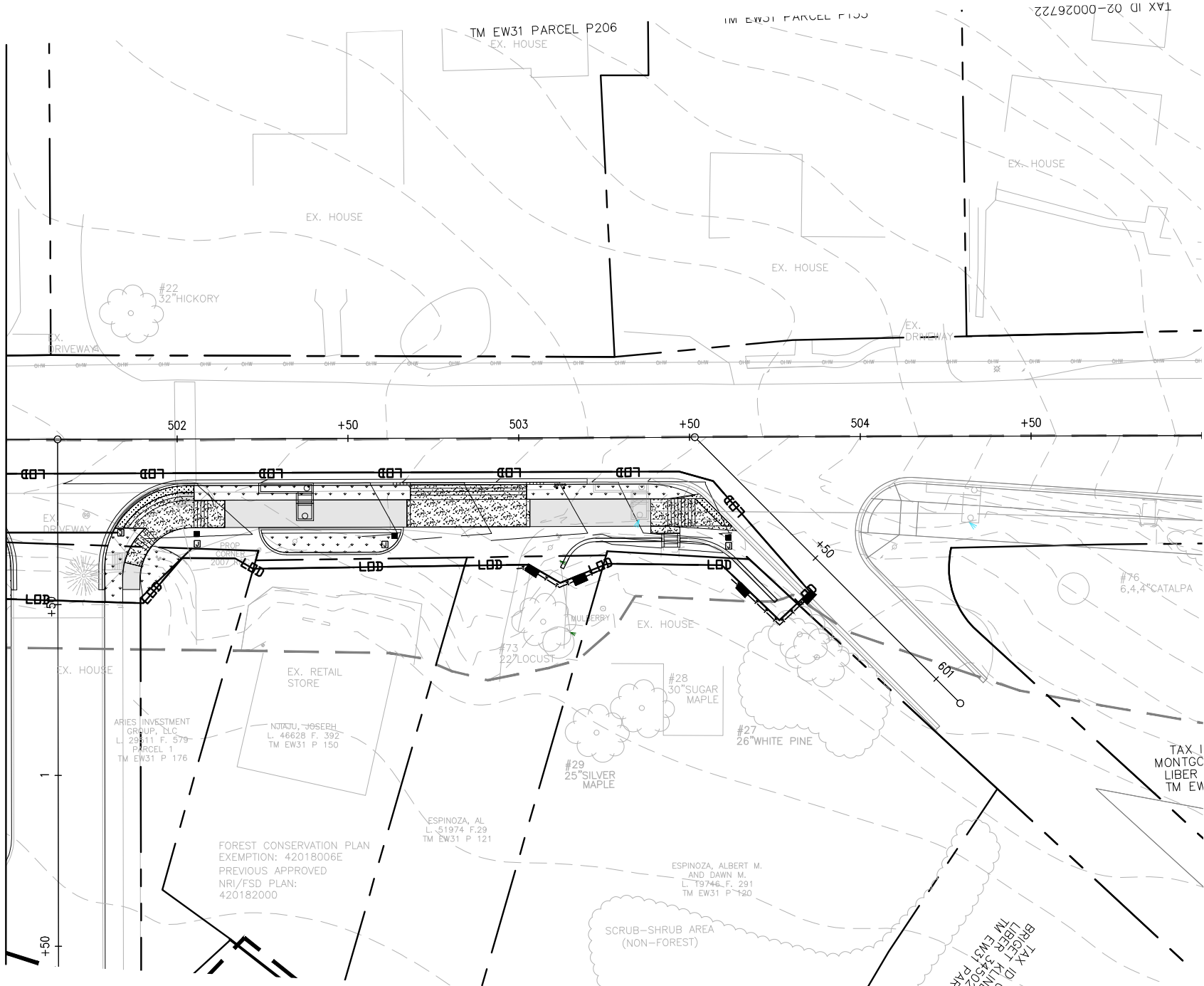
LEGEND

- 14" RED OAK EXISTING TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
SEE FOREST CONSERVATION PLAN FOR FOREST
CLEARING & REFORESTATION INFORMATION.



MATCHLINE SHEET L-2.2



SITE LANDSCAPE PLANT SCHEDULE

SEED MIXES					
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226
					STABILIZATION

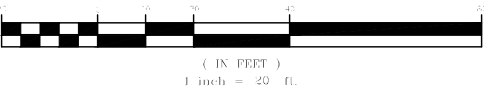
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MISS UTILITY

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GRAPHIC SCALE



NORTON LAND DESIGN LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5146 DORSEY HALL DRIVE, 2ND FLOOR ELLEICOTT CITY, MD 21042 BALT.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM					
WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK			ADC MAP PAGE	9 GRID B-3, 4
TAX MAP	EW341,EW121	200 SHEET	232NW13,233NW12		
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.3

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878				PLAN SHEET L-2.3 LANDSCAPE PLAN			
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				MD 355 - CLARKSBURG SHARED USE PATH			
NO.	REVISION	DATE	BY	Designed by :	H.J.	Drawn by :	H.J.
				Checked by :	M.N.	Project No. :	C.J.P. PR. #501744
						SHEET	74 of 88

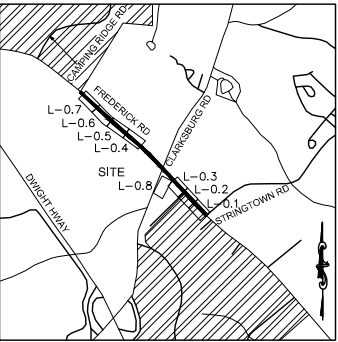
DRILL HOLES

DRILL HOLES

DRILL HOLES

SITE LANDSCAPE PLANT SCHEDULE

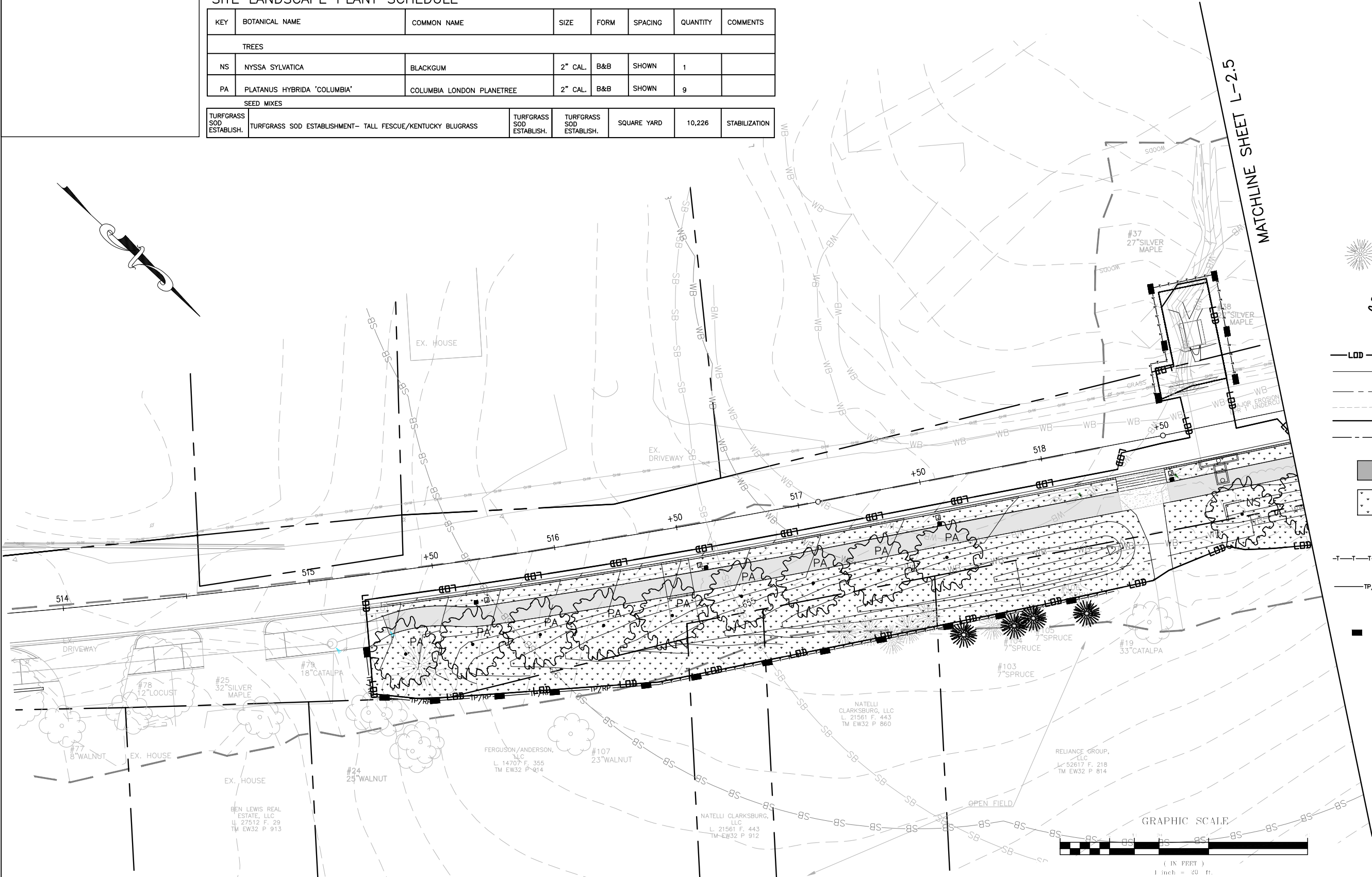
KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	1	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	9	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



VICINITY MAP
1"=2000'

LEGEND

- EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

MISS UTILITY

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FOREST CONSERVATION PLAN EXEMPTION: 4

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ELLICOTT CITY, MD 21042
WWW.NORTONLANDDESIGN.COM

WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	232NW13,233NW12	ADC MAP PAGE	9 GRID B-3,4
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.4

NOTE: SEE FOREST CONSERVATION PLAN FOR FOREST CLEARING & REFORESTATION INFORMATION.

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-2.4
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.J.P. PR. #501744

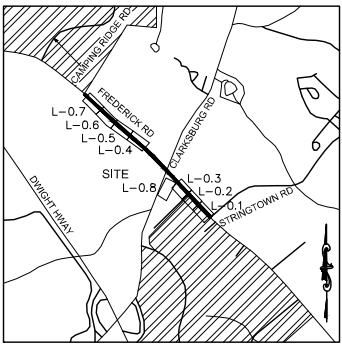
SHEET 75 of 88



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SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	5	
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	5	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



VICINITY MAP
1"=2000'

LEGEND

- EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE PATH
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
SEE FOREST CONSERVATION PLAN FOR FOREST
CLEARING & REFORESTATION INFORMATION.



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOC LINE



MISS UTILITY
CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET CHECK AT 1-866-821-4226 TO VERIFY THAT ALL UTILITIES HAVE BEEN MARKED, 48 HOURS AFTER CALLING MISS UTILITY. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

NORTON LAND DESIGN
LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING
5146 DORSEY HALL DRIVE, 2ND FLOOR
BALT. 443.542.9199 x101 DC 240.342.2329x101
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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	ADC MAP PAGE	9	GRID	B-3
TAX MAP	EW341,EW121	200 SHEET	232NW13	233NW12	
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.5

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

PLAN SHEET L-2.5
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

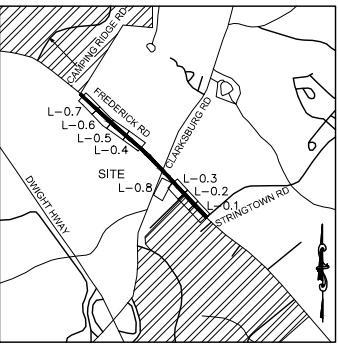
Project No. : C.J.P. PR. #501744 SHEET 76 of 88

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

9/11/2019

SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	4	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	1	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUEGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



VICINITY MAP
1"=2000'

LEGEND

- 14" RED OAK
- EXISTING TREE
- PROPOSED CANOPY TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- PROPOSED SHARED USE TRAIL
- TURFGRASS SOD ESTABLISHMENT
- PROPOSED LIGHT POLES
- TREE PROTECTION FENCE (TEMPORARY)
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

NOTE:
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*NOTE: TREE
CONSERVATION
MEASURES, SUCH AS
ROOT PRUNING, BRANCH
PRUNING, TREE
FERTILIZING, AND OTHER
MEASURES PRESCRIBED
BY THE PROJECT'S
ARBORIST AT THE TIME
OF THE LOD LAYOUT
AND/OR INSTALLATION
OF E&S MEASURES, MAY
BE REQUIRED ALONG
THE TOC LINE

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PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY
THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. BEFORE
EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CALLING TICKET
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EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS
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ELLICOTT CITY, MD 21042
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WATER CLASS	I,P/V,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK	ADC MAP	233NW13	ADC MAP	233NW14
TAX MAP	EW341,EW121	200 SHEET	232NW13	PAGE	9
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15-138
				SHEET NO.	L-2.6

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-2.6
LANDSCAPE PLAN

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.J.P. PR. #501744 SHEET 77 of 88

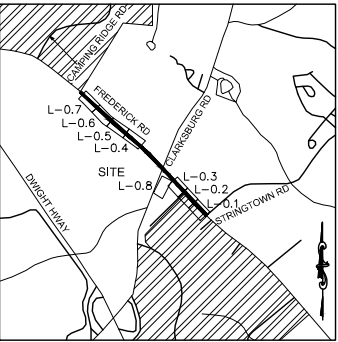
DRILL HOLES

DRILL HOLES

DRILL HOLES

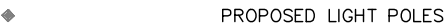
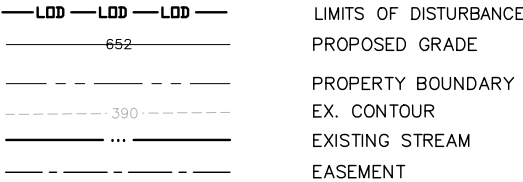
SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CR	CHIONANTHUS REFUSUS	CHINESE FRINGETREE	7'-8'	B&B	SHOWN	4	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	8	
SEED MIXES							
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT- TALL FESCUE/KENTUCKY BLUGRASS		TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



VICINITY MAP
1"=2000'

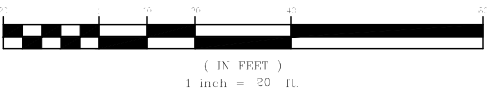
LEGEND



NOTE:
SEE FOREST CONSERVATION PLAN FOR FOREST
CLEARING & REFORESTATION INFORMATION.



GRAPHIC SCALE



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE.

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WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK		
TAX MAP EW341,EW121	200 SHEET 232NW13,233NW12	ADC MAP PAGE 9 GRID 8-3,4
SCALE AS SHOWN	DATE SEPTEMBER 2019	PROJ. NO. 15-138
		SHEET NO. L-2.7

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

Project No. : C.J.P. PR. #501744 SHEET 78 of 88

PLAN SHEET L-2.7
LANDSCAPE PLAN

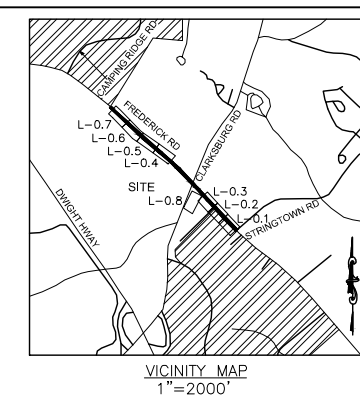
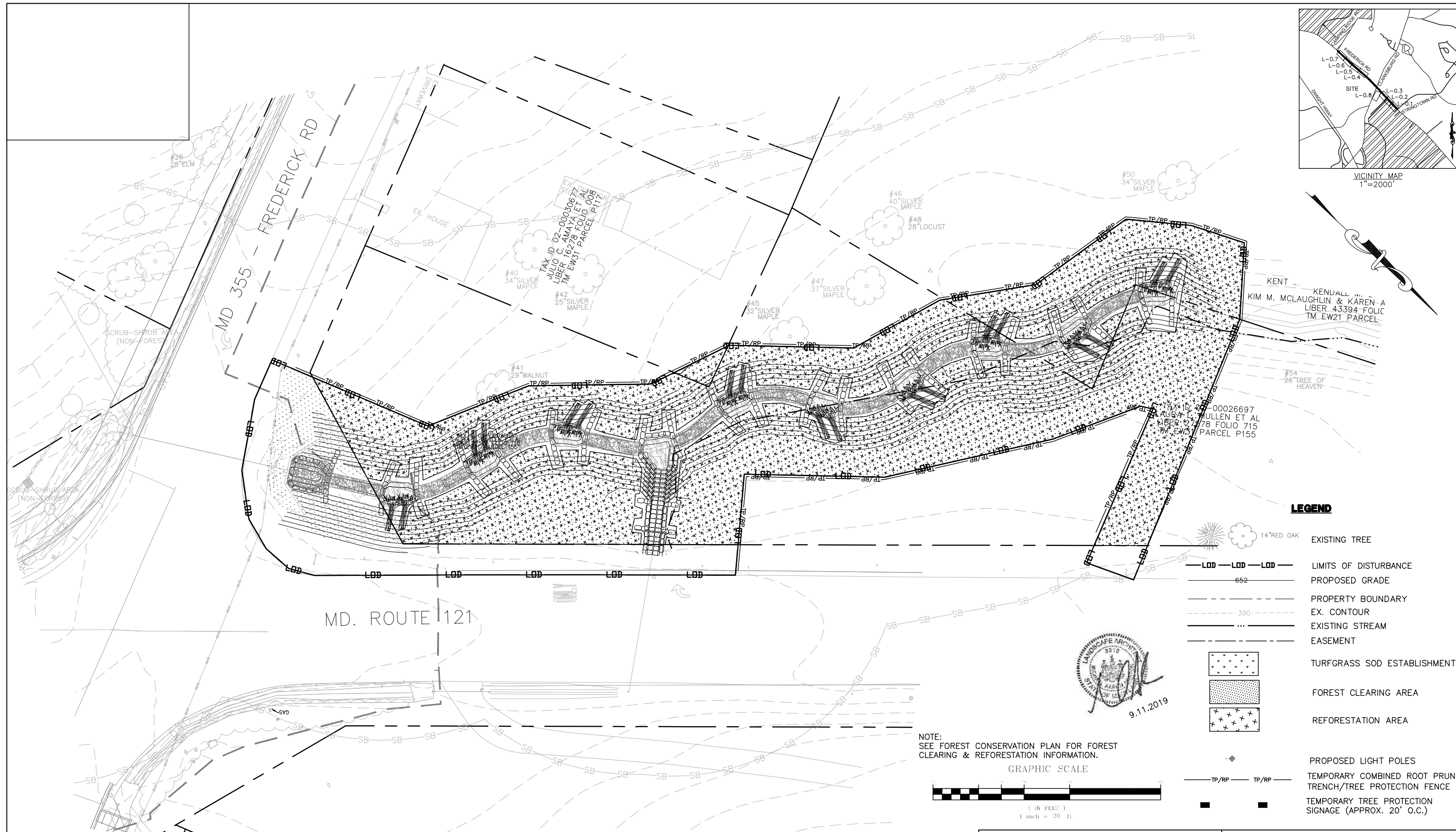
MD 355 - CLARKSBURG
SHARED USE PATH

07/2018

DRILL HOLES

DRILL HOLES

DRILL HOLES

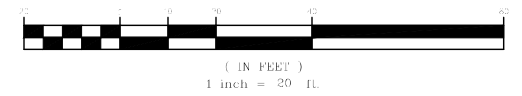


LEGEND

- EXISTING TREE
- LIMITS OF DISTURBANCE
- PROPOSED GRADE
- PROPERTY BOUNDARY
- EX. CONTOUR
- EXISTING STREAM
- EASEMENT
- TURFGRASS SOD ESTABLISHMENT
- FOREST CLEARING AREA
- REFORESTATION AREA
- PROPOSED LIGHT POLES
- TEMPORARY COMBINED ROOT PRUNE TRENCH/TREE PROTECTION FENCE
- TEMPORARY TREE PROTECTION SIGNAGE (APPROX. 20' O.C.)

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GRAPHIC SCALE



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WATER CLASS I,P/IV,P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D
TRIBUTARY ROCK CREEK	200 SHEET 232NW13, 233NW12	ADC MAP PAGE 9 GRID 8-3, 4
TAX MAP EW341,EW121	SCALE AS SHOWN	DATE SEPTEMBER 2019
PROJ. NO. 15-138	SHEET NO. L-2.8	

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-2.8
LANDSCAPE PLAN - MD 121

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.J.P. PR. #501744 SHEET 79 of 88

WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 300
Hunt Valley, Maryland 21036
410.484.5655 Tel / 410.667.0825 Fax
www.wallacemontgomery.com

A Limited Liability Partnership

7.1 SHA LANDSCAPE NOTES:
Landscape construction within rights of way of the Maryland State Highway Administration (SHA) and within SHA property, easement areas and lands to be conveyed to SHA shall conform to these Notes. For guidance regarding design modifications during construction, refer to SHA Landscape Design Guide, SHA Landscape Estimating Manual, and SHA Environmental Guide for Access and District Permit Applicants at <http://www.roads.maryland.gov/index.aspx?PageId=25>

7.2 SHA Standard Specifications:
Landscape construction shall conform to Sections 701 through 716, and landscape materials shall conform to Section 920 of the most recent revision of SHA Standard Specifications for Construction and Materials, including all revisions and supplements, and as specified in these notes. These requirements shall supersede all other specifications for work on SHA property. All SHA specifications for landscaping and landscape materials published in 2008 have been replaced. Current Specifications are at <http://www.roads.maryland.gov/Index.aspx?PageId=44>.

7.3 Erosion and Sediment Control Manager (ESCM):
Soil disturbance such as grading, excavation, soil placement or other activities that involve soil disturbance shall be supervised by an ESCM Manager with a valid "SHA Yellow Card" in conformance with SHA Standard Specifications and any applicable Erosion and Sediment Control Permit.

7.4 SHA Standard Details for Trees, Shrubs and Planting Beds:
The installation of trees, shrubs, planting beds and other landscape construction related to Section 710 of the SHA Standard Specifications shall conform to the "SHA Book of Standards for Highway & Incidental Structures – Category 7" at <http://apps.roads.maryland.gov/BusinessWithSHA/bizStdSpecs/desManualStdPub/publicationsonline/ohd/bookstd/tocc/at7.asp>.

7.5 Temporary Stabilization:
Shall be installed in conformance with Section 704 to ensure that areas of soil disturbance are protected from wind, rainfall and flowing water until permanent stabilization is installed:
1. Temporary Mulch, either as temporary straw mulch or temporary matting mulch, shall be installed at the end of each working day to provide "same day stabilization" unless other approved stabilization is installed.
2. Temporary straw mulch shall be installed on areas and slopes flatter than 4:1; temporary matting mulch shall be applied on slopes 4:1 and steeper, and to areas within channels.
3. Temporary Seed shall be installed in lieu of Temporary Mulch when soil redisturbance is expected more than 30 days after soil disturbance. The required application rate shall be 100 lbs per acre of 37–0–0 (SCU) fertilizer.

7.6 Roadway Pavement Removal:
Areas of roadway pavement removal shall be excavated to remove pavements, aggregate base, and compacted soil to a minimum depth of 10 inches below the pavement surface, or as necessary to remove all materials unsuitable for landscaping. The excavated areas shall be restored with subsoil and topsoil as part of Soil Restoration.

7.7 Excavation and Debris Removal:
Debris related to the demolition of sidewalks, driveways, curbs, trees, stumps, roots, fencing, pipes, and other materials that may interfere with landscape installation or future maintenance shall be excavated as necessary for their complete removal and disposal.

7.8 Soil Restoration:
Areas of pavement removal, excavation or drilling in landscaped areas shall remove excavated debris and restore the subgrade with approved subsoil and topsoil placed in conformance with Section 701 of the SHA Standard Specifications.
1. A layer of approved topsoil of at least a 4–inch depth shall be placed on all disturbed areas flatter than 2:1 and in all channels prior to seeding, sodding or other landscaping, unless otherwise specified.
2. A layer of approved topsoil of at least a 2–inch depth shall be placed on all disturbed areas 2:1 and steeper prior to seeding, sodding or other landscaping, unless otherwise specified.
3. Bioretention Soil Mix (BSM) and other materials installed in conjunction with SPI 316 – Stormwater Filtration Facilities and SHA stormwater details shall be installed in conformance with SHA Landscape Notes and landscape plans. Plant materials and mulch shall be installed in BSM in conformance with stormwater details, Section 710 or other SHA Specifications.

7.9 Turfgrass Sod Establishment:
Shall be performed in all disturbed areas, or within the areas indicated in the plans, in conformance with Section 708 of the SHA Standard Specifications. The required application rate of 20–16–12 fertilizer shall be 200 lbs per acre, and no fertilizer shall be applied from November 15 to March 1.

7.11 Soil Stabilization Matting:
Shall be installed in conformance with Section 709 of the SHA Standard Specifications, in conjunction with Turfgrass Establishment per Section 705 or Meadow Establishment per Section 707 as follows:
1. Areas Flatter than 6:1. Type A or Type E matting may be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment.
2. Areas Steeper than 6:1 and Flatter than 4:1. Type A or Type E matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.
3. Channels, Stormwater Management Facilities, and Slopes 4:1 and Steeper Type A Soil Stabilization Matting shall be installed in lieu of straw mulch and hydromulch binder in conjunction with Turfgrass Establishment, unless delineated and noted otherwise.

7.13 Tree Preservation Areas:
Temporary Orange Construction Fence (TOCF) shall be installed in locations delineated on the plans as Tree Preservation Areas (TPA) in conformance with Section 120 of the SHA Standard Specification to protect existing trees and other vegetation during construction. Areas within TOCF shall be protected from all prohibited and restricted activities, per Section 120.

7.14 Roadside Tree Permit:
Tree removal, tree installation, tree root and branch pruning, and other regulated impacts to trees in the SHA right of way shall conform to the requirements of the Roadside Tree Permit (RTP) issued by the Maryland Department of Natural Resources, or the approved Forest Conservation Plan (FCP) of the local authority.
1. A copy of the RTP or FCP shall be submitted to the SHA Office of Environmental Design before work is performed, and a copy of the RTP or FCP shall be reproduced in the plans or be in possession of the applicant at the project site when the permitted work is performed.
2. A Maryland Licensed Tree Expert shall perform the specified tree operations in conformance with the SHA Standard Specifications and ANSI A300 Standards for Tree Care Operations.

7.15 Trees and Other Plant Material Installation:
Trees, shrubs, perennials, annuals, bulbs, landscape beds, bark mulch and similar materials shall be installed in conformance with Section 710 and 711 of the SHA Standard Specifications. Tree and shrubs shall be pruned at the time of installation to ensure sidewalk clearance for pedestrians is maintained to a height of 8 feet. No tree or shrub shall be installed within 3 feet of curbs, sidewalks, or pavement edges

7.21 Tree Branch Pruning:
Shall be performed or directly supervised by a Maryland Licensed Tree Expert in conformance with ANSI A300 standards per Section 712 as necessary for any of the following: To install Temporary Orange Construction Fence (TOCF) along delineations on plans; to perform Tree Root Pruning along delineations on plans; to provide 8–foot clearance above sidewalk pavements and 16–foot clearance above roadway pavements; to repair tree wounds; and to perform other recommended cleaning, thinning, reducing, and pruning necessary to accommodate utilities. All debris shall be removed from SHA property

7.22 Tree Root Pruning:
Shall be performed along the line shown on the plans in conformance with Section 715. Tree Root Pruning shall be completed before beginning excavation or construction adjacent to trees to be preserved.

7.23 Tree Fertilizing:
Shall be performed in conformance with Operation 3 – Broadcast Fertilizing per Section 716. 20–16–12 fertilizer shall be applied to the soil surface under the dripline of trees at the rate of 200 lbs. per acre.

7.25 Future Maintenance:
Additional maintenance that may be required after hardscape, street furniture or plant materials are installed and accepted by SHA such as replacement, watering, weeding, mulching or pest control may be provided by the applicant when a permit for the proposed work is issued by the SHA District Office.

SITE LANDSCAPE PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE	FORM	SPACING	QUANTITY	COMMENTS
TREES							
CR	CHIONANTHUS REFUSUS	CHINESE FRINGETREE	7'–8'	B&B	SHOWN	4	
NS	NYSSA SYLVATICA	BLACKGUM	2" CAL.	B&B	SHOWN	18	
PA	PLATANUS HYBRIDA 'COLUMBIA'	COLUMBIA LONDON PLANETREE	2" CAL.	B&B	SHOWN	18	
QR	QUERCUS RUBRA	NORTHERN RED OAK	2" CAL.	B&B	SHOWN	5	

SEED MIXES						
TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISHMENT– TALL FESCUE/KENTUCKY BLUGRASS	TURFGRASS SOD ESTABLISH.	TURFGRASS SOD ESTABLISH.	SQUARE YARD	10,226	STABILIZATION



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WALLACE MONTGOMERY
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 300
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410-484-5655 Tel / 410-957-0825 Fax
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WATER CLASS	I,P/IV,P	WATERSHED	LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TRIBUTARY	ROCK CREEK				
TAX MAP	EW341,EW121	200 SHEET	233NW13	ADC MAP PAGE	9 GRID 8-3, 8-3.4
SCALE	AS SHOWN	DATE	SEPTEMBER 2019	PROJ. NO.	15–138
				SHEET NO.	LS–2.9

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

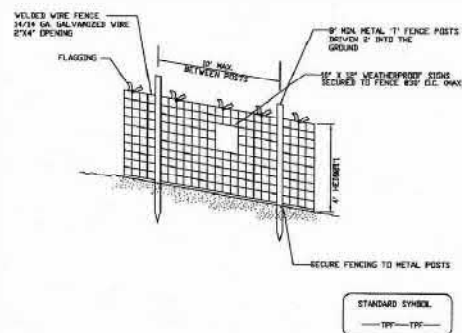
PLAN SHEET L-2.9
LANDSCAPE - NOTES

MD 355 - CLARKSBURG
SHARED USE PATH

07/2018

Project No. : C.J.P. PR. #501744 SHEET 80 of 88

Not to scale



NOTES

1. Practice may be combined with sediment control fencing.
2. Location and limits of fencing should be coordinated in field with arborist.
3. Boundaries of protection area should be staked prior to installing protective device.
4. Root damage should be avoided.
5. Protection signage is required.
6. Fencing shall be maintained throughout construction.

Montgomery County Planning Department • M-NCPPC
MontgomeryPlanning.org

MIN. 11"

TREE
PROTECTION
AREA

NO DISTURBANCE
PERMITTED
BEYOND THIS POINT

MIN. 15"

AREA DE
PROTECCION
DE ARBOLES

NO SE PERMITE TRABAJAR
NI DEJAR MATERIALES EN EL
AREA ATRAS DE ESTE
ROTULO

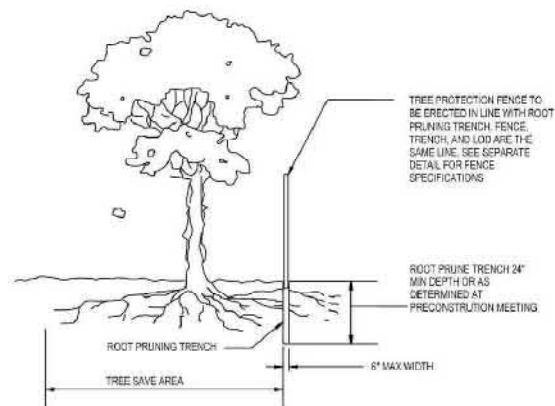
NOTE:

SIGNAGE FOR FOREST RETENTION AREA
TO BE PLACED 30' O.C. WHEN PLACED ON FENCE

1. Attachment of signs to trees is prohibited.
2. Signs should be properly maintained.
3. Avoid injury to roots when placing posts for the signs.

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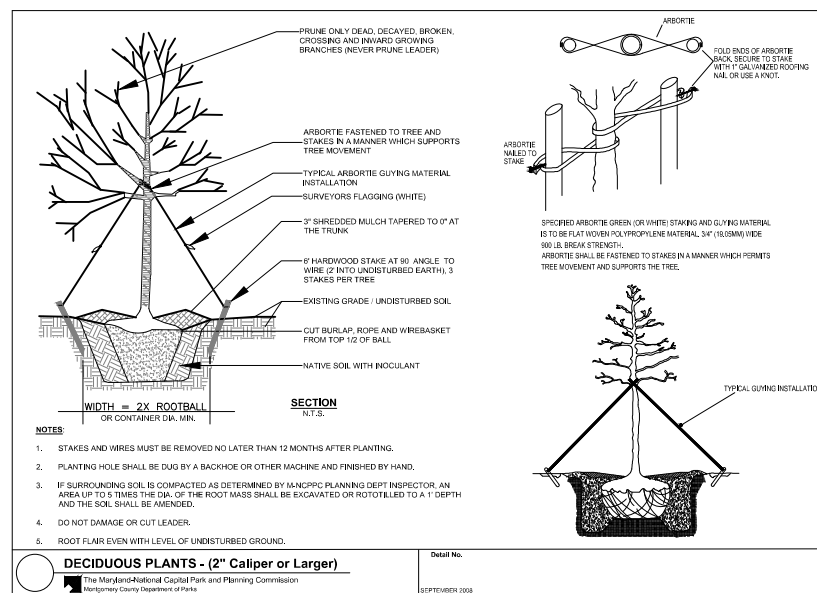


NOTES

1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL

NTS



*NOTE: TREE CONSERVATION MEASURES, SUCH AS ROOT PRUNING, BRANCH PRUNING, TREE FERTILIZING, AND OTHER MEASURES PRESCRIBED BY THE PROJECT'S ARBORIST AT THE TIME OF THE LOD LAYOUT AND/OR INSTALLATION OF E&S MEASURES, MAY BE REQUIRED ALONG THE TOCF LINE

 **WALLACE
MONTGOMERY**
ENGINEERS-PLANNERS-SURVEYORS-CONSTRUCTION MANAGERS
10150 York Road, Suite 300
Hunt Valley, Maryland 21030
410.494.5000 Tel / 410.667.0825 Fax
www.WallaceMontgomery.com *A Limited Liability Partnership*

 NORTON LAND DESIGN LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5146 DORSEY HALL DRIVE, 2ND FLOOR ELLICOTT CITY, MD 21042 BALD.443.542.9199 x101 DC 240.342.2329x101 WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I,P/W,P	WATERSHED	FEMA FLOODPLAIN MAP PANEL #
TRIBUTARY	ROCK CREEK	LITTLE SENECA CREEK	24031C 0160D
TAX MAP	EW341,EW121	200 SHEET 232NW13, 233NW13, 233NW14	ADC MAP PAGE 9 B-3 GRID C-3,4
SCALE	AS SHOWN	DATE	SHEET NO.
		SEPTEMBER 2019	LS-2.10
		PROJ. NO.	
		15-138	

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

LANDSCAPE — NOTES &
DETAILS

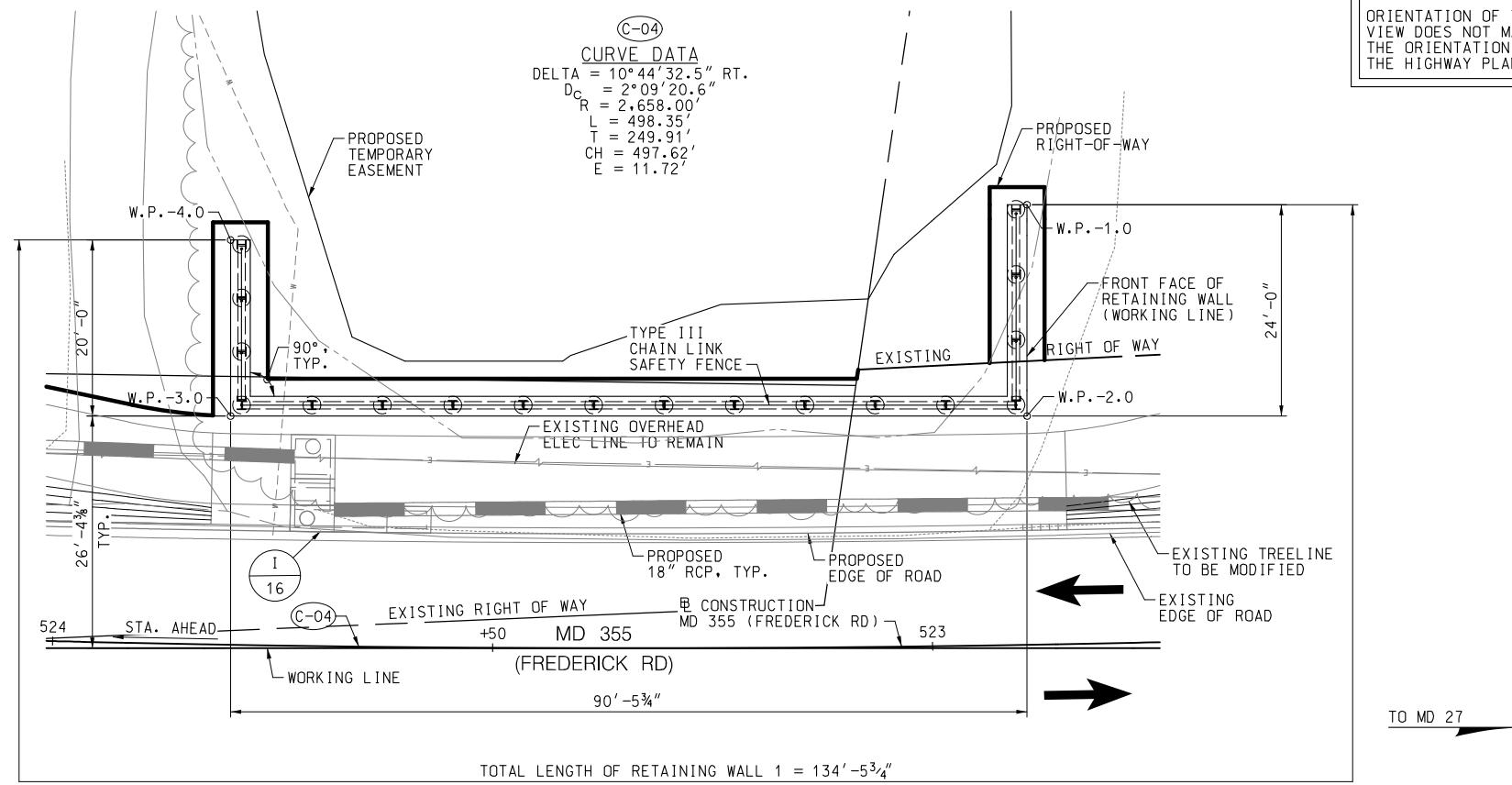
Designed by : H.J. Drawn by : H.J. Checked by : M.N.

PLAN SHEET L-2.10
LANDSCAPE - DETAILS

MD 355 - CLARKSBURG
SHARED USE PATH

Project No. : C.I.P. PR. #501744

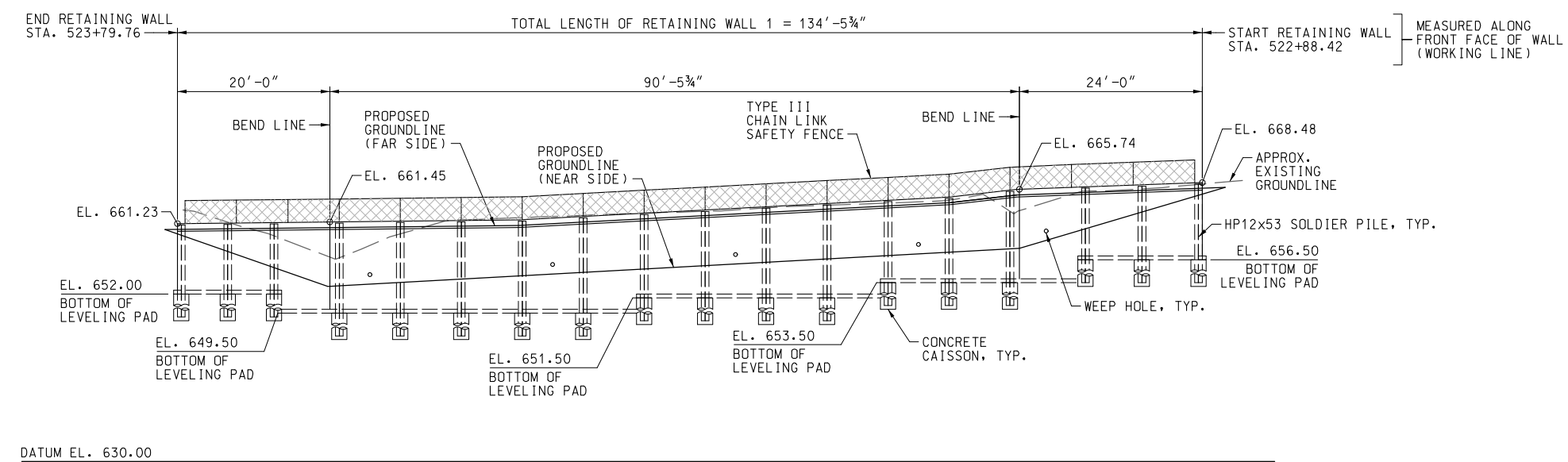
SHEET 81 of 8



NOTE:
ORIENTATION OF THIS
VIEW DOES NOT MATCH
THE ORIENTATION OF
THE HIGHWAY PLANS.

- GENERAL NOTES:**
- SPECIFICATIONS:** MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, DATED JULY 2018.
- DESIGN:** AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2017.
- CONCRETE:** ALL CONCRETE SHALL BE MIX NO. 3 (3500 PSI).
- REINFORCING STEEL:** REINFORCING STEEL SHALL CONFORM TO A615, GRADE 60, WITH A YIELD STRENGTH FOR DESIGN OF $f_y = 60000$ PSI.
- ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS.
- STRUCTURAL STEEL:** REINFORCING STEEL SHALL BE EPOXY COATED AS NOTED WITH AN EP IN THE PLANS.
- MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE 2" EXCEPT FOR THE FOLLOWING LOCATIONS:
- FOR TIES AND STIRRUPS, STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACI BENDING TOLERANCES.
- NEW STRUCTURAL STEEL SHALL CONFORM TO A709, GRADE 50. INCLUDING THE ADDITIONAL REQUIREMENTS FOR CHARPY V-NOTCH TESTING OF M270, FOR PRIMARY LOAD CARRYING MEMBERS. REFER TO SECTION 909.01.

P L A N
SCALE: 1" = 10'



ELEVATION
SCALE: 1" = 10'
(DEVELOPED ALONG FRONT FACE OF WALL)

- NOTES:**
- FOR GEOMETRIC AND FOOTING LAYOUT, SEE DRAWING RW1-2.
 - FOR RETAINING WALL TYPICAL SECTION, SEE DRAWING RW1-3.

WALLACE MONTGOMERY
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10150 York Road, Suite 200
Hunt Valley, Maryland 21030
410.494.9093 Tel / 410.667.0925 Fax
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90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section APPROVED	
Chief, Division of Engineering Services	Date
Designed by : M.E.P.	Drawn by : C.N.W.
Checked by : D.A.L.	

**RETAINING WALL 1
GENERAL PLAN AND ELEVATION
MD 355 - CLARKSBURG
SHARED USE PATH**

SCALE: AS NOTED 09/2019

Project No. : C.I.P. PR. # 501744 SHEET 83 of 88

NOTE:
ORIENTATION OF THIS
VIEW DOES NOT MATCH
THE ORIENTATION OF
THE HIGHWAY PLANS.

CAISSON SCHEDULE					
CAISSON NUMBER	STATION	OFFSET	WALL SECTION	TOP OF CAISSON ELEV.	BOTTOM OF CAISSON ELEV.
1	522+89.69	49.50 RT.	HP12x53	656.50	644.50
2	522+89.81	42.09 RT.	HP12x53	656.50	644.50
3	522+89.94	34.67 RT.	HP12x53	656.50	644.50
4	522+90.06	27.25 RT.	HP12x53	653.50	641.50
5	522+98.15	27.37 RT.	HP12x53	653.50	641.50
6	523+06.23	27.47 RT.	HP12x53	653.50	641.50
7	523+14.31	27.54 RT.	HP12x53	651.50	639.50
8	523+22.40	27.59 RT.	HP12x53	651.50	639.50
9	523+30.48	27.62 RT.	HP12x53	651.50	639.50
10	523+38.56	27.62 RT.	HP12x53	651.50	639.50
11	523+46.65	27.59 RT.	HP12x53	649.50	637.50
12	523+54.73	27.54 RT.	HP12x53	649.50	637.50
13	523+62.82	27.47 RT.	HP12x53	649.50	637.50
14	523+70.90	27.37 RT.	HP12x53	649.50	637.50
15	523+78.98	27.25 RT.	HP12x53	649.50	637.50
16	523+79.11	33.33 RT.	HP12x53	652.00	640.00
17	523+79.24	39.42 RT.	HP12x53	652.00	640.00
18	523+79.38	45.50 RT.	HP12x53	652.00	640.00

CAISSON INSTALLATION NOTES:

- EXCAVATED SHAFTS FOR CAISSONS BY AUGURING TO A MINIMUM EMBEDMENT OF 12'-0", WITH A MINIMUM ROCK SOCKET OF 5'-0". SEE SECTION ON SHEET RW1-3. ROCK SHALL BE DEFINED AS MATERIAL THAT CAN NOT BE DRILLED WITH A CME 75 DRILL RIG (OR EQUIVALENT) AND HOLLOW STEM AUGERS. WHEN ROCK IS ENCOUNTERED, CORE-DRILLING PROCEDURES WILL BE REQUIRED.
- INSTALL STEEL CASINGS AS EXCAVATION PROCEEDS. CASINGS SHALL BE FULL LENGTH AND WATER TIGHT AND SHALL BE SUFFICIENT TO WITHSTAND ALL STRESSES AND MAINTAIN THE SHAFT WALLS.
- WITHDRAW CASINGS PREGRESSIVELY AS CONCRETE IS PLACED.
- HOLES FOR SUCCESSIVE DRILLED SHAFTS SHALL NOT BE EXCAVATED UNTIL ADJACENT SHAFTS ARE FILLED WITH CONCRTE AND ALLOWED TO SET.
- DRILLED SHAFT TOLERANCES SHALL BE IN ACCORDANCE WITH SECTION 412.

NOTE:
FOR GENERAL PLAN AND
ELEVATION, SEE DRAWING RW1-1

RW1-2

RETAINING WALL 1
GEOMETRIC AND FOOTING LAYOUT
MD 355 - CLARKSBURG
SHARED USE PATH

SCALE: AS NOTED 09/2019
Project No. : C.I.P. PR. # 501744 SHEET 84 of 88

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

NO.	REVISION	DATE	BY



MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL

Chief, Design Section
APPROVED

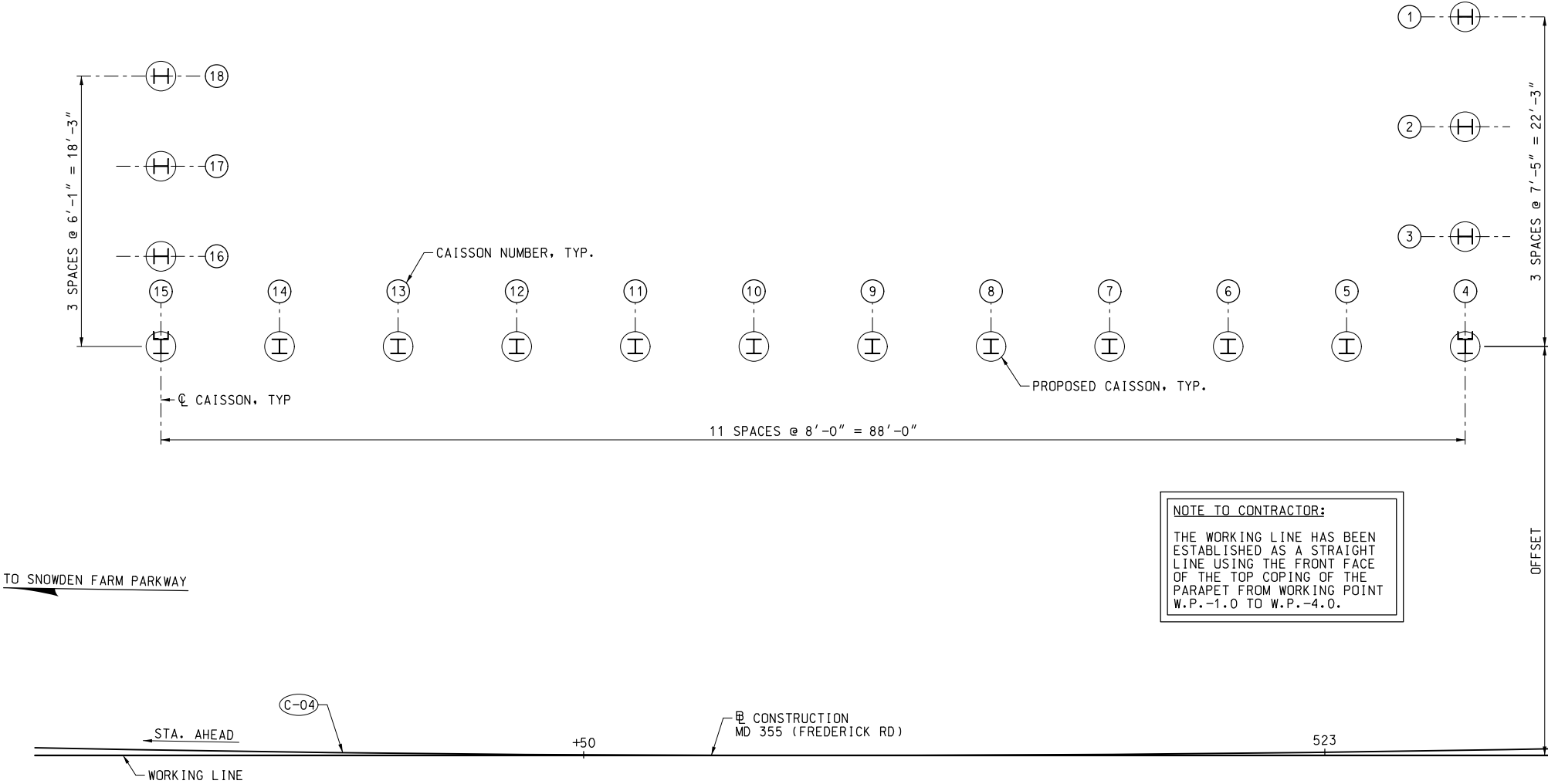
Date

Chief, Division of Engineering Services

Date

Designed by : M.E.P. Drawn by : C.N.W. Checked by : D.A.L.

GEOMETRIC AND FOOTING LAYOUT
SCALE: 1" = 5'

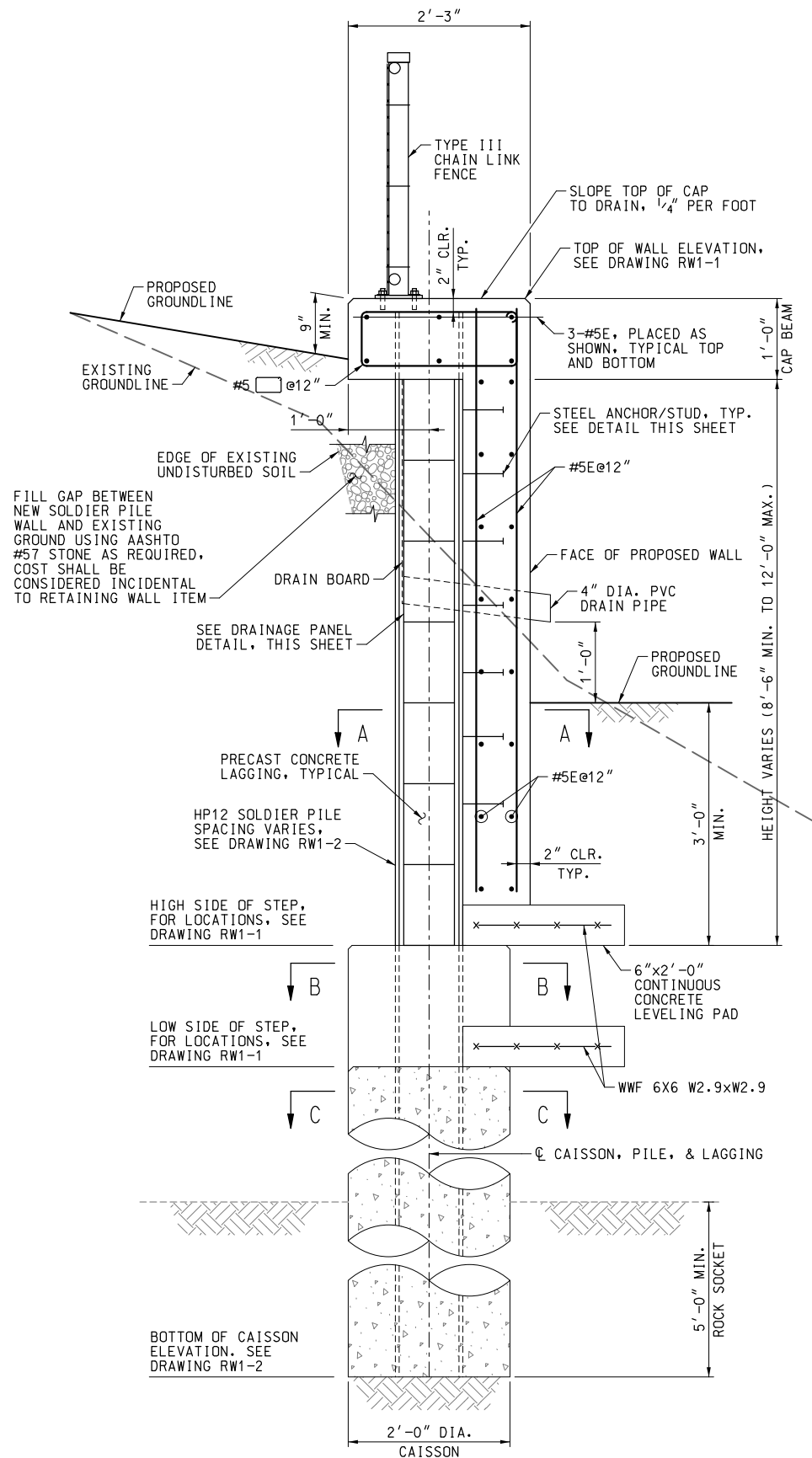


NOTE TO CONTRACTOR:

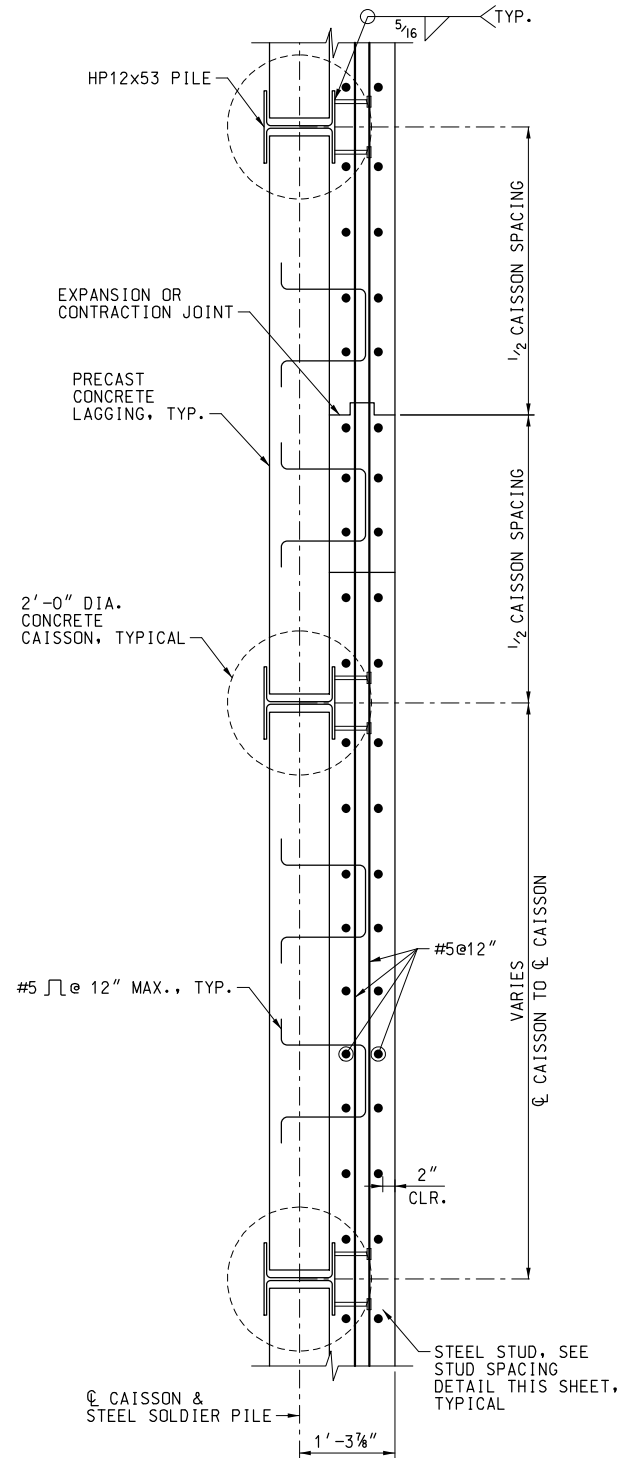
THE WORKING LINE HAS BEEN
ESTABLISHED AS A STRAIGHT
LINE USING THE FRONT FACE
OF THE TOP COPING OF THE
PARAPET FROM WORKING POINT
W.P.-1.0 TO W.P.-4.0.

CURVE DATA

DELTA = 10° 44' 32.5" RT.
DC = 2° 09' 20.6"
R = 2,658.00'
L = 498.35'
T = 249.91'
CH = 497.62'
E = 11.72'

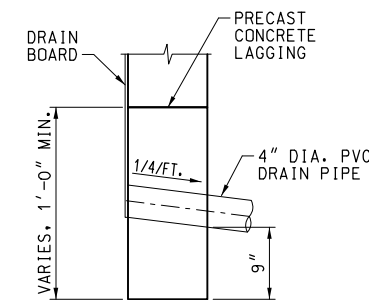


SOLDIER PILE RETAINING WALL TYPICAL SECTION
SCALE: 1" = 1'-0"



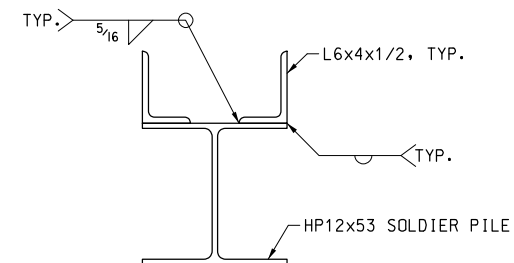
SECTION A-A
SCALE: 3/4" = 1'-0"

- NOTES:
1. DRAIN PIPES NOT SHOWN FOR CLARITY. ALL REINFORCING IN FASCIA SHALL BE PLACED TO MISS DRAIN PIPES.
 2. FOR PRECAST LAGGIN DETAILS, SEE SHEET RW1-4.



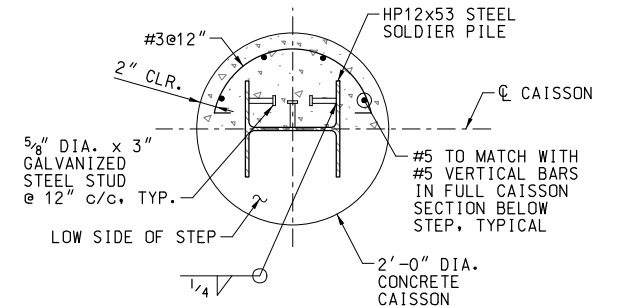
DRAINAGE PANEL DETAIL
SCALE: 1" = 1'-0"

NOTE:
DETAILS FOR ATTACHING DRAIN BOARD TO PVC DRAIN SHALL BE PREPARED BY CONTRACTOR AND SUBMITTED FOR APPROVAL.

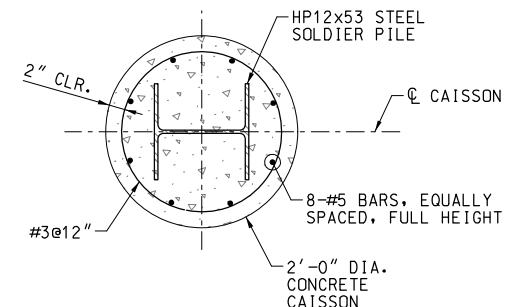


PILES 4 AND 15 ONLY
LAGGING CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"

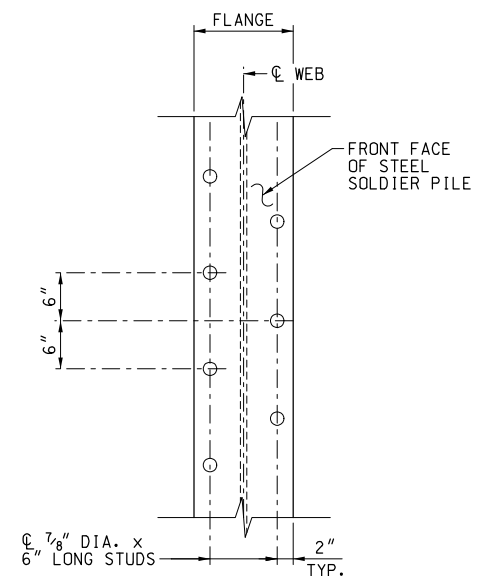
- RETAINING WALL SEQUENCE OF CONSTRUCTION:**
1. AUGUR HOLES FOR PROPOSED CAISSONS. ROCK SOCKETS SHALL BE PROVIDED WHERE INDICATED BY CORING INTO EXISTING ROCK. SEE CAISSON INSTALLATION NOTES ON SHEET RW1-2. ALL DRILLING SHALL BE COMPLETED FROM THE EXISTING ROADWAY.
 2. INSTALL STEEL SOLDIER PILES AND PLACE CONCRETE IN CAISSON TO THE SPECIFIED ELEVATION.
 3. POUR REMAINDER OF CONCRETE FACING AND CAP FOR THE WALL.
 4. INSTALL NEW RAILING ON TOP OF RETAINING WALL.



SECTION B-B
CAISSON STEP REINFORCEMENT
SCALE: 1" = 1'-0"



SECTION C-C
CAISSON REINFORCEMENT DETAIL
SCALE: 1" = 1'-0"



STUD SPACING DETAIL
SCALE: 1" = 1'-0"

90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

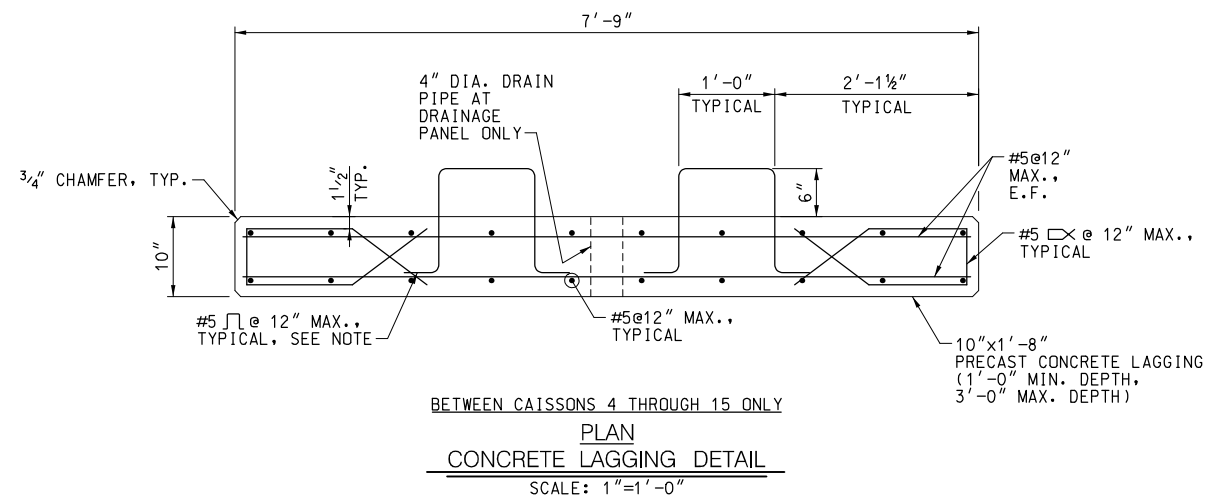
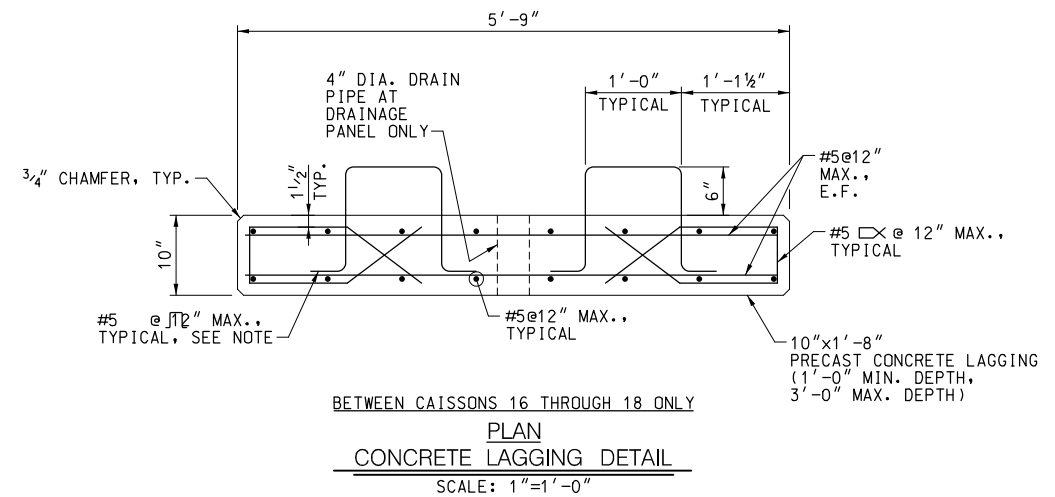
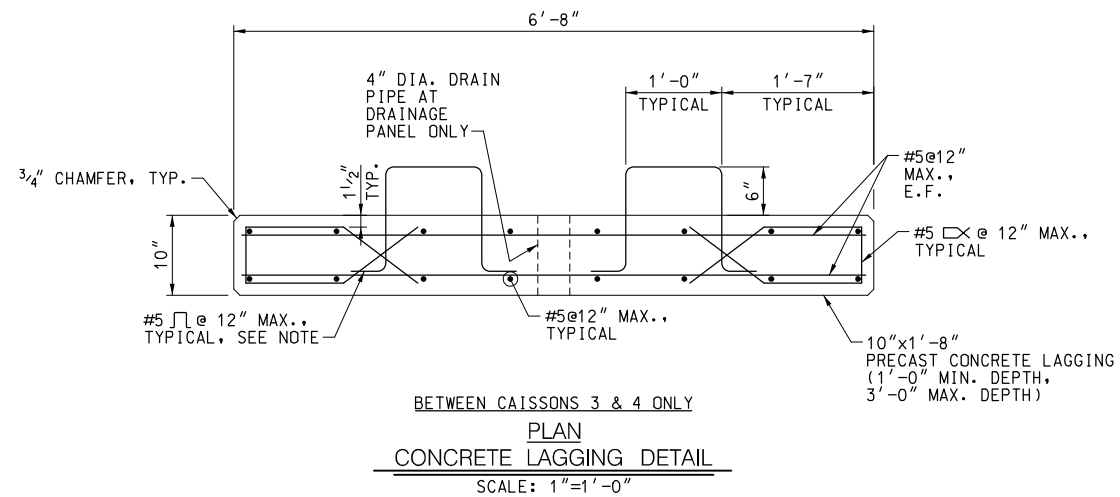
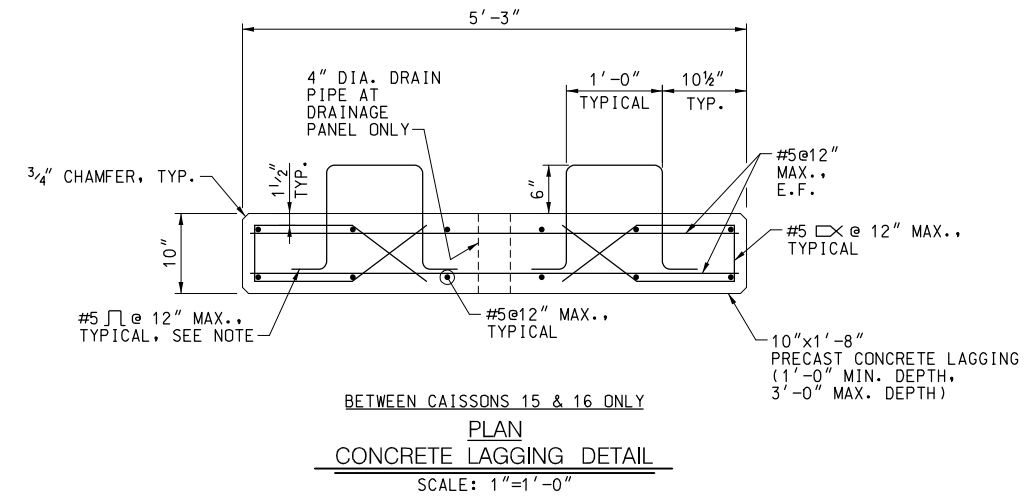
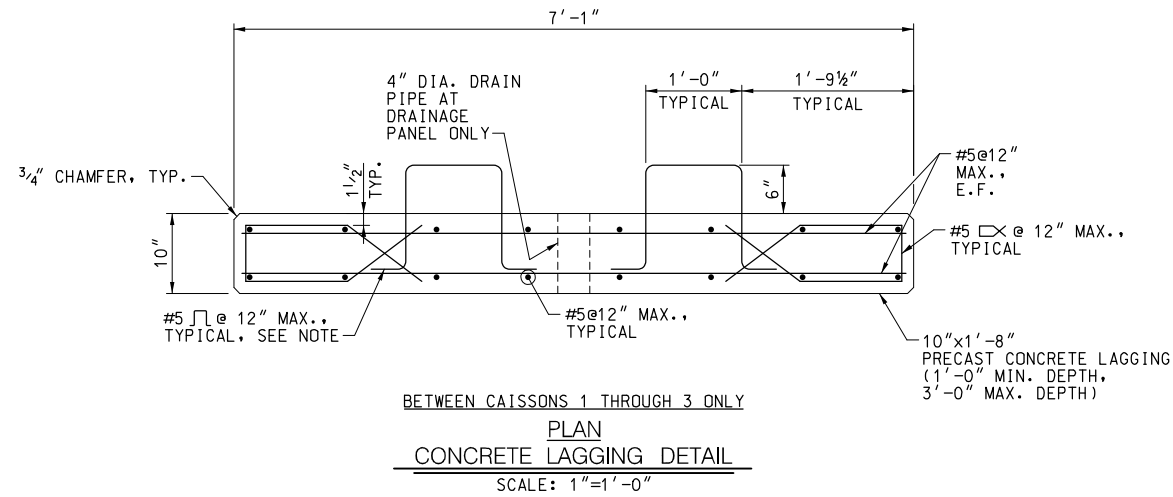
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

RECOMMENDED FOR APPROVAL	
Chief, Design Section	Date
APPROVED	
Chief, Division of Engineering Services	Date
Designed by : M.E.P.	Drawn by : C.N.W.
Checked by : D.A.L.	

RETAINING WALL 1 TYPICAL SECTION AND DETAILS MD 355 - CLARKSBURG SHARED USE PATH

SCALE: AS NOTED 09/2019
Project No. : C.I.P. PR. # 501744 SHEET 85 of 88



NOTE:

STIRRUPS SHALL NOT BE USED IN LAGGING AT CONTRACTION AND EXPANSION JOINT LOCATIONS.

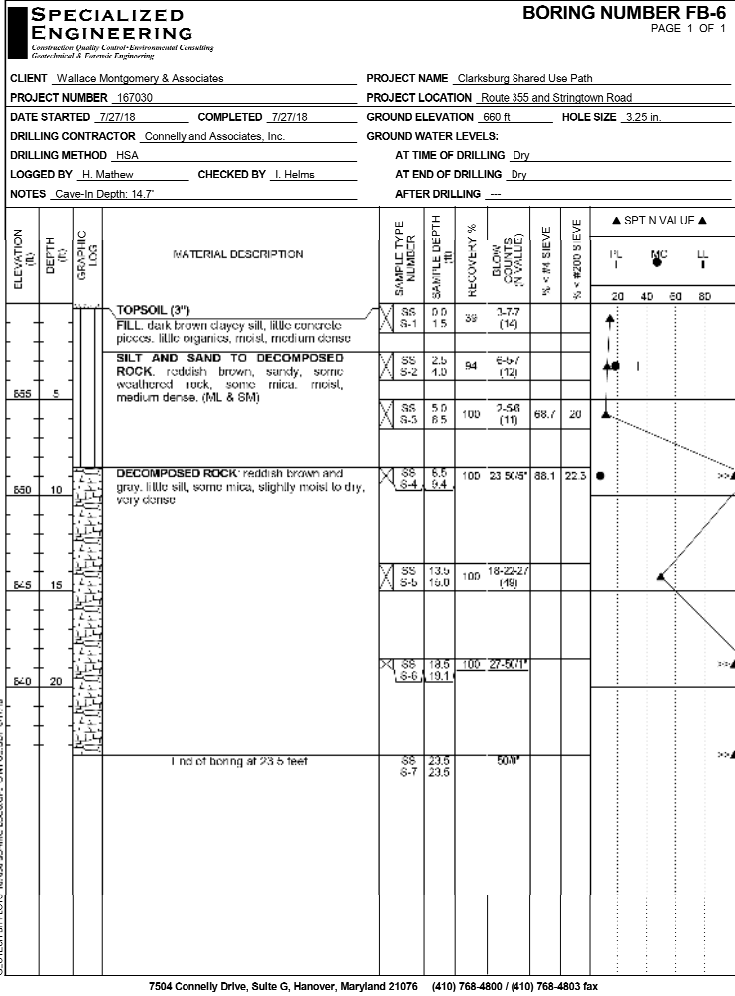
90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

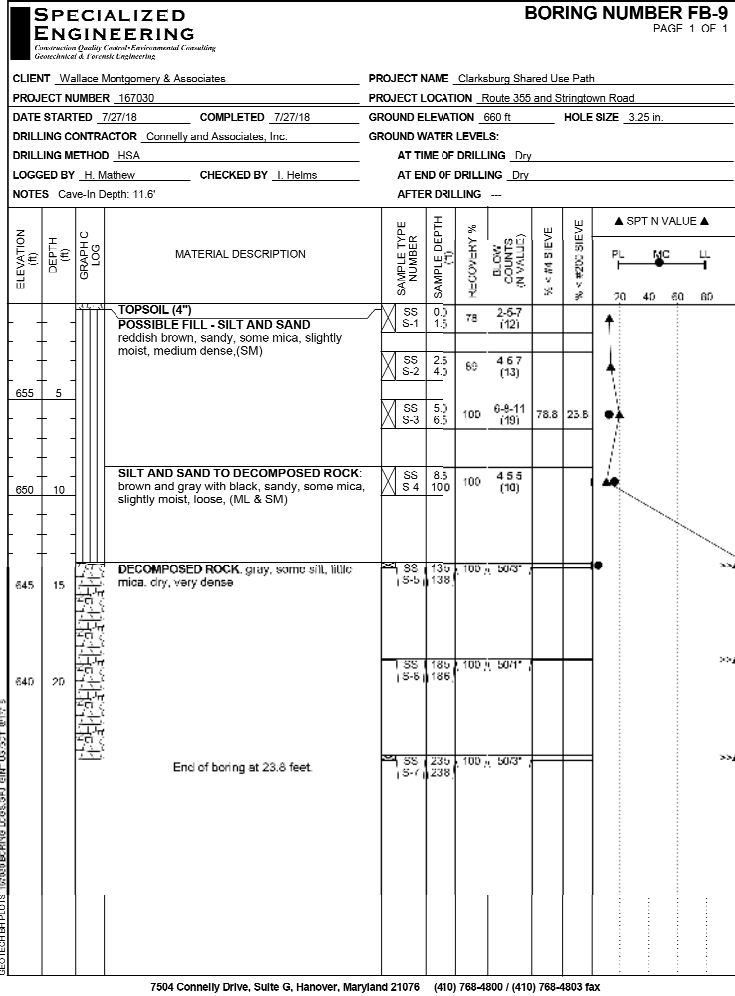
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878			
RECOMMENDED FOR APPROVAL			
Chief, Design Section		Date	
APPROVED			
Chief, Division of Engineering Services		Date	
Designed by : M.E.P.	Drawn by : C.N.W.	Checked by : D.A.L.	

RETAINING WALL 1 PRECAST LAGGING DETAILS MD 355 - CLARKSBURG SHARED USE PATH



BORING FB-6



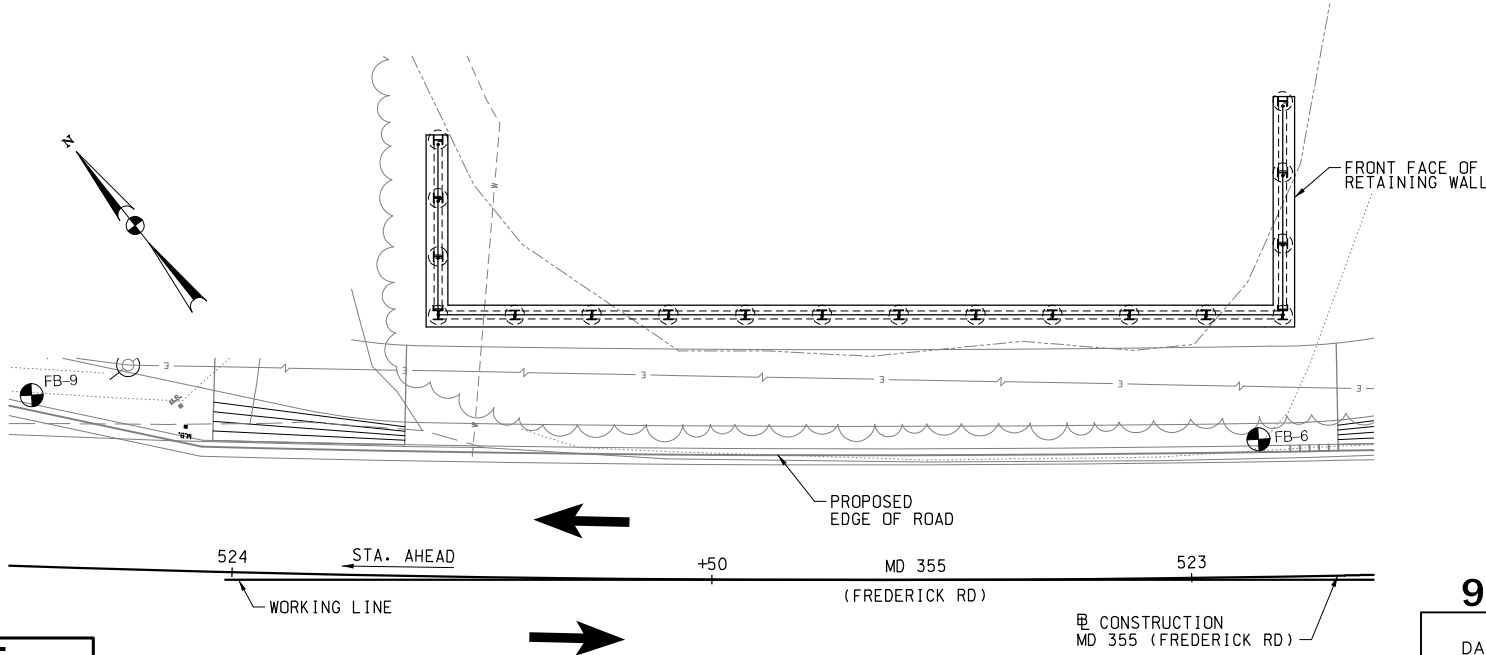
BORING FB-9

DATUM EL. 620.00

DATUM EL. 620.00

BORINGS AND DRIVE TESTS

SCALE: 1" = 5'



BORING LOCATION PLAN

SCALE: 1" = 10'

BORING LOCATION DATA					
BORING NUMBER	STATION	OFFSET	NORTHING	EASTING	DEPTH (FT)
FB-6	522+92.83	14.33' RT.	574,144.6029	1,231,579.4088	25.00
FB-9	524+21.47	17.84' RT.	574,227.6146	1,231,482.1133	25.00

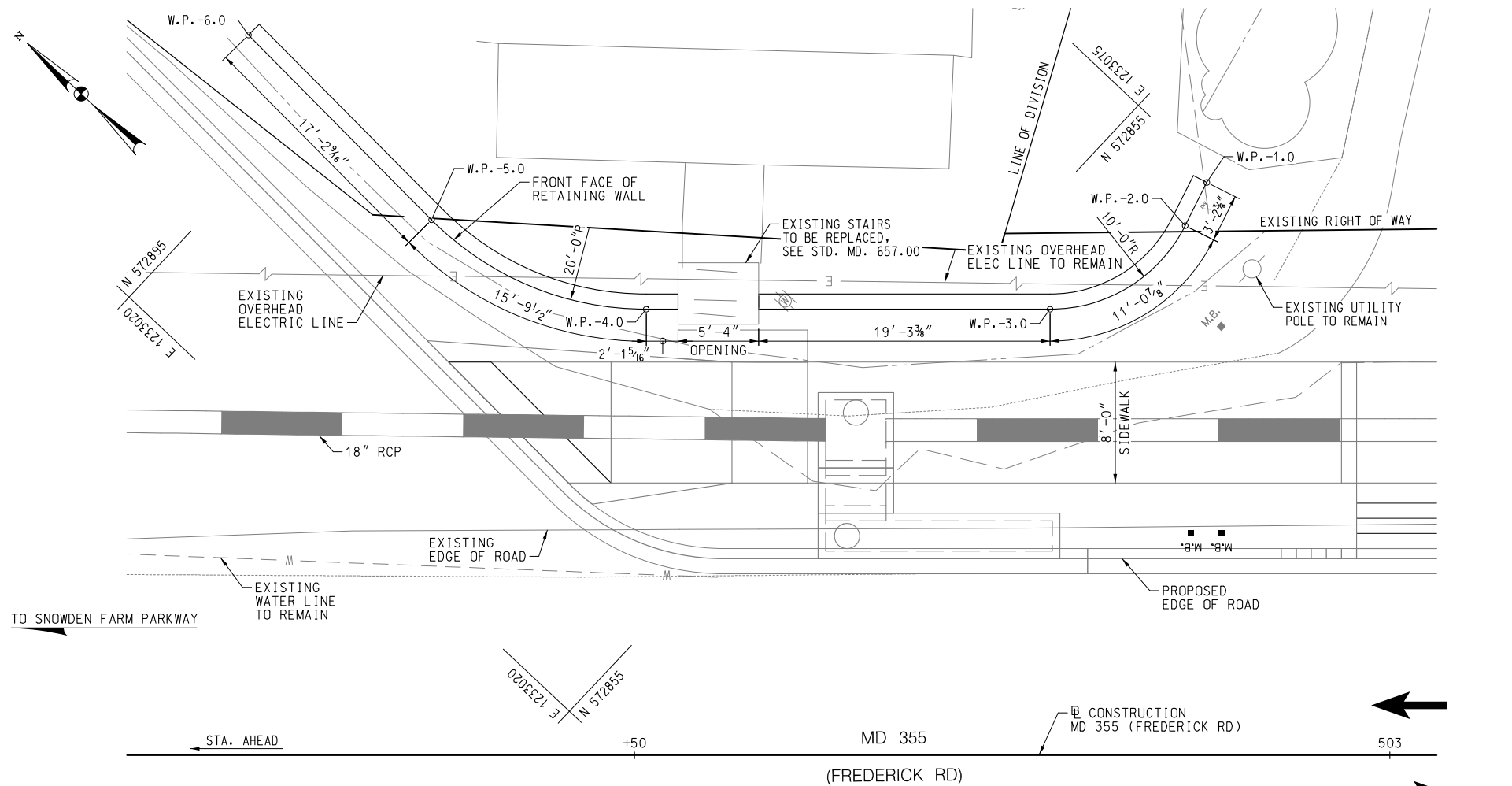
90% SUBMITTAL

DATUM: NAD 83/91 HORIZONTAL
NAVD 88 VERTICAL

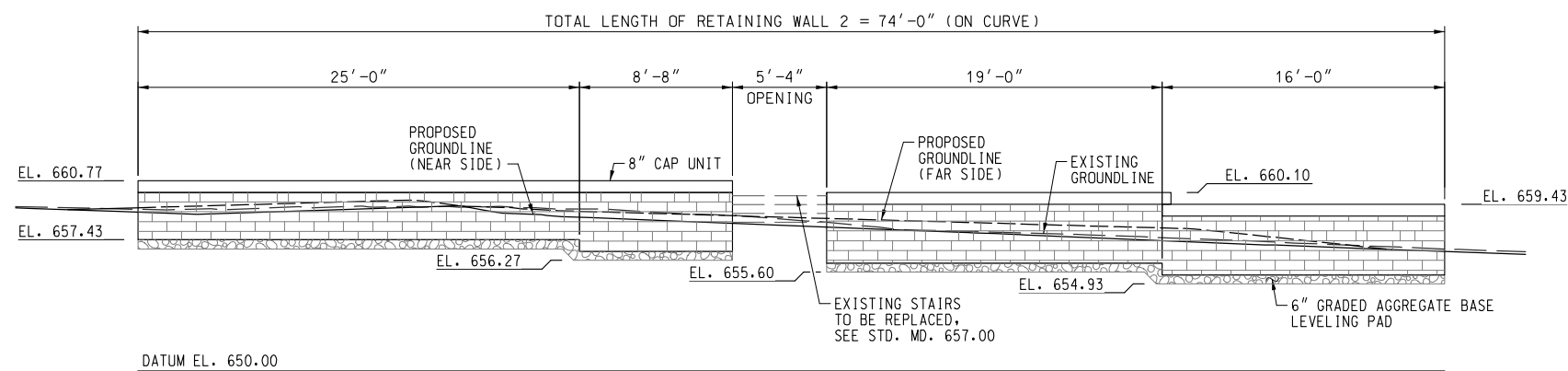
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878	
RECOMMENDED FOR APPROVAL	Date
Chief, Design Section APPROVED	
Chief, Division of Engineering Services	Date
Designed by : M.E.P.	Drawn by : C.N.W.
Checked by : D.A.L.	

BORING LOCATION PLAN
MD 355 - CLARKSBURG
SHARED USE PATH



P L A N
SCALE: 1" = 5'



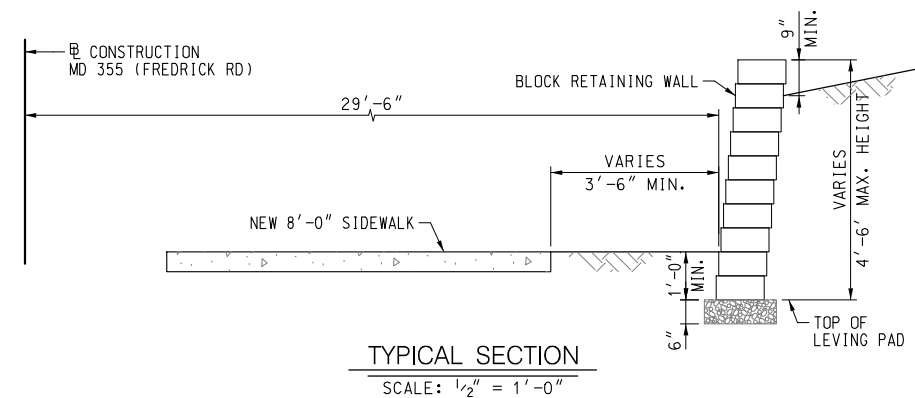
ELEVATION
SCALE: 1" = 5'

GENERAL NOTES:

- SPECIFICATIONS:**
- SHA SPECIFICATIONS DATED JULY 1, 2018
 - REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS FOR MATERIALS AND CONSTRUCTION
- AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DATED 2014 FOR DESIGN INCLUDING ALL INTERIM SPECIFICATIONS THROUGH 2016.
- CONCRETE DESIGN:** LOAD AND RESISTANCE FACTOR DESIGN METHOD
f'c = 3,000 PSI.
- CONCRETE:** ALL CONCRETE SHALL BE MIX NO. 3 (3,500 PSI).
- KEYS:** ALL KEYS ARE NOMINAL SIZE.

WORKING POINT DATA				
MARK	STATION	OFFSET	NORTHING	EASTING
W.P.-1.0	503+12.12	37.89' RT.	572,848.2137	1,233,074.3800
W.P.-2.0	503+13.55	35.03' RT.	572,847.2967	1,233,071.3143
W.P.-3.0	503+22.50	29.50' RT.	572,850.0296	1,233,061.1610
W.P.-4.0	503+49.22	29.50' RT.	572,869.5041	1,233,042.8621
W.P.-5.0	503+63.42	35.42' RT.	572,883.9054	1,233,037.4497
W.P.-6.0	503+75.54	47.64' RT.	572,901.1082	1,233,038.0572

NOTE:
SOIL SHALL HAVE A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.



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

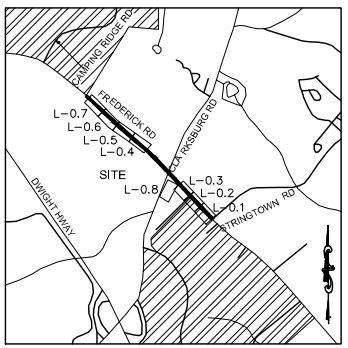
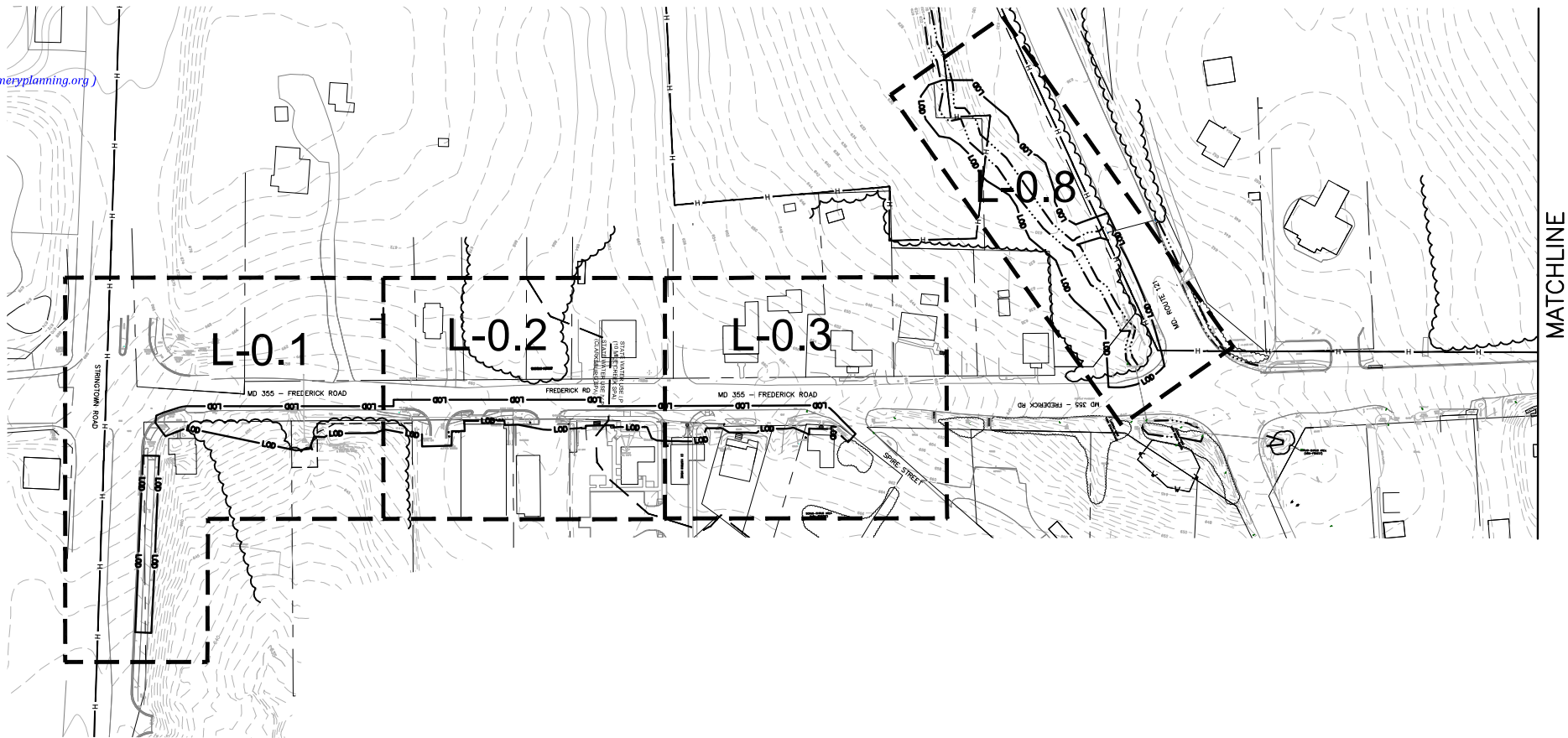
- NOTES:**
1. FOR ROADWAY PLANS, SEE DRAWING NO. PS-03.
 2. SEE SPECIAL PROVISIONS FOR PRE-APPROVED ALTERNATE WALL SYSTEMS.

90% SUBMITTAL

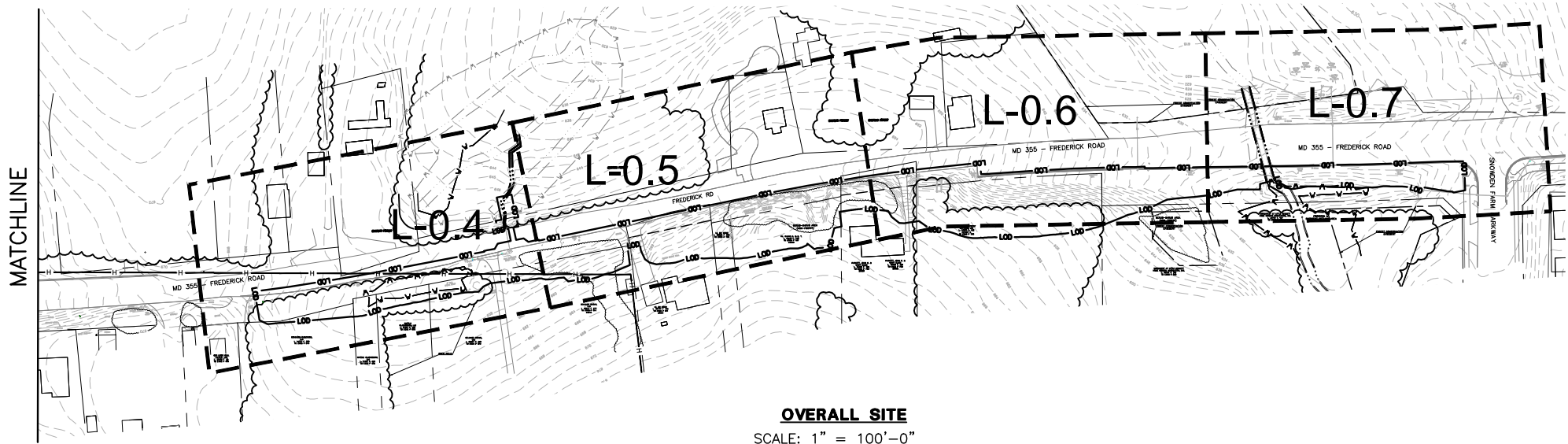
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878			
RECOMMENDED FOR APPROVAL			
Chief, Design Section APPROVED		Date	
Chief, Division of Engineering Services		Date	
Designed by :	M.E.P.	Drawn by :	C.N.W.
Checked by :	D.A.L.		

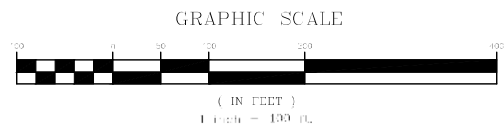
**RETAINING WALL 2
GENERAL PLAN AND ELEVATION
MD 355 - CLARKSBURG
SHARED USE PATH**



VICINITY MAP
1"=2000'



- LEGEND**
- L-0 — L-0 — PROPOSED LIMITS OF DISTURBANCE
 - — — — — PROPERTY BOUNDARY
 - ~~~~~ EXISTING FOREST AREA
 - ~~~~~ EXISTING SCRUB-SHRUB AREA
 - . . . — EXISTING FIELD DELINEATED STREAM
 - W — W — W — EXISTING FIELD DELINEATED WETLAND
 - . . . — STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
 - W — W — W — WETLAND BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
 - H — H — HISTORIC DISTRICT
 - S STATE WATER USE (P) / S STATE WATER USE (P) — STATE WATER USE (SPA) DIVIDE LINE
 - — — — — FOREST CONSERVATION EASEMENT

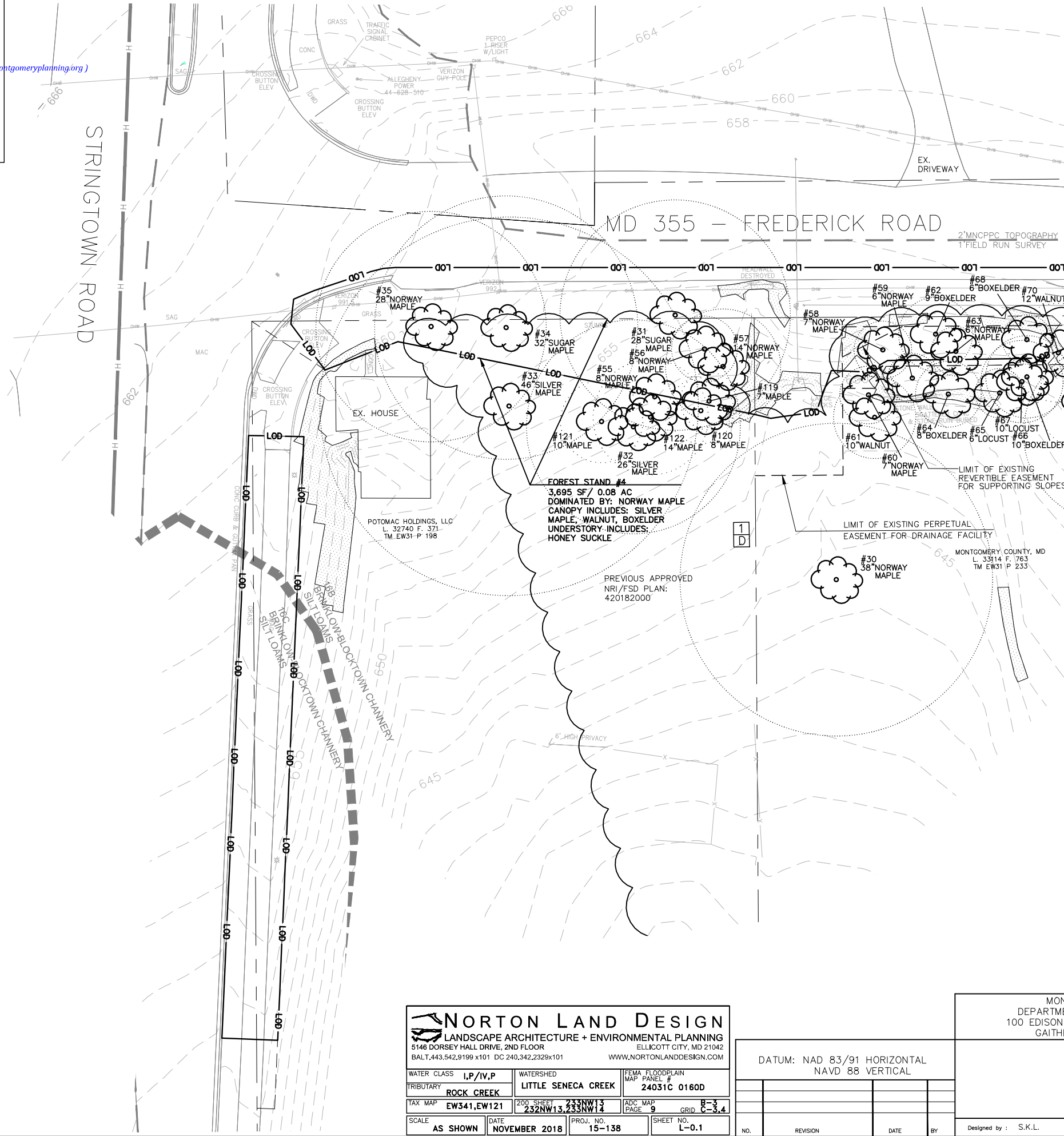
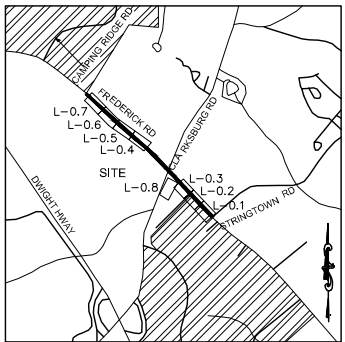


CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE
ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18
DATE

Michael A. Norton
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

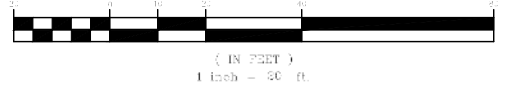


LEGEND

- #1 26" RED OAK EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
- #2 32" RED OAK EXISTING SPECIMEN TREE >30" DBH * OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
- 16D 2UB SOIL BOUNDARY
- LOD PROPOSED LIMITS OF DISTURBANCE
- 1" SURVEY TOPO 2" MNCPPC TOPO LIMITS OF SURVEY
- MODERATE SLOPES 15% - 25%
- STEEP SLOPES ≥ 25%
- PROPERTY BOUNDARY
- EXISTING FOREST AREA
- EXISTING SCRUB-SHRUB AREA
- 1 A FOREST SAMPLE PLOT
- H H HISTORIC DISTRICT
- TEMPORARY EASEMENT

* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

GRAPHIC SCALE

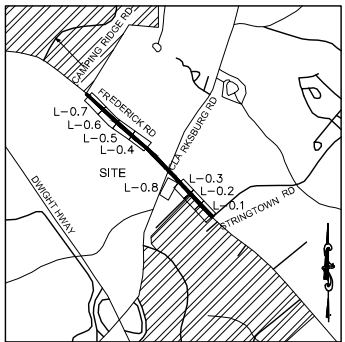


CERTIFICATION OF QUALIFIED PROFESSIONAL

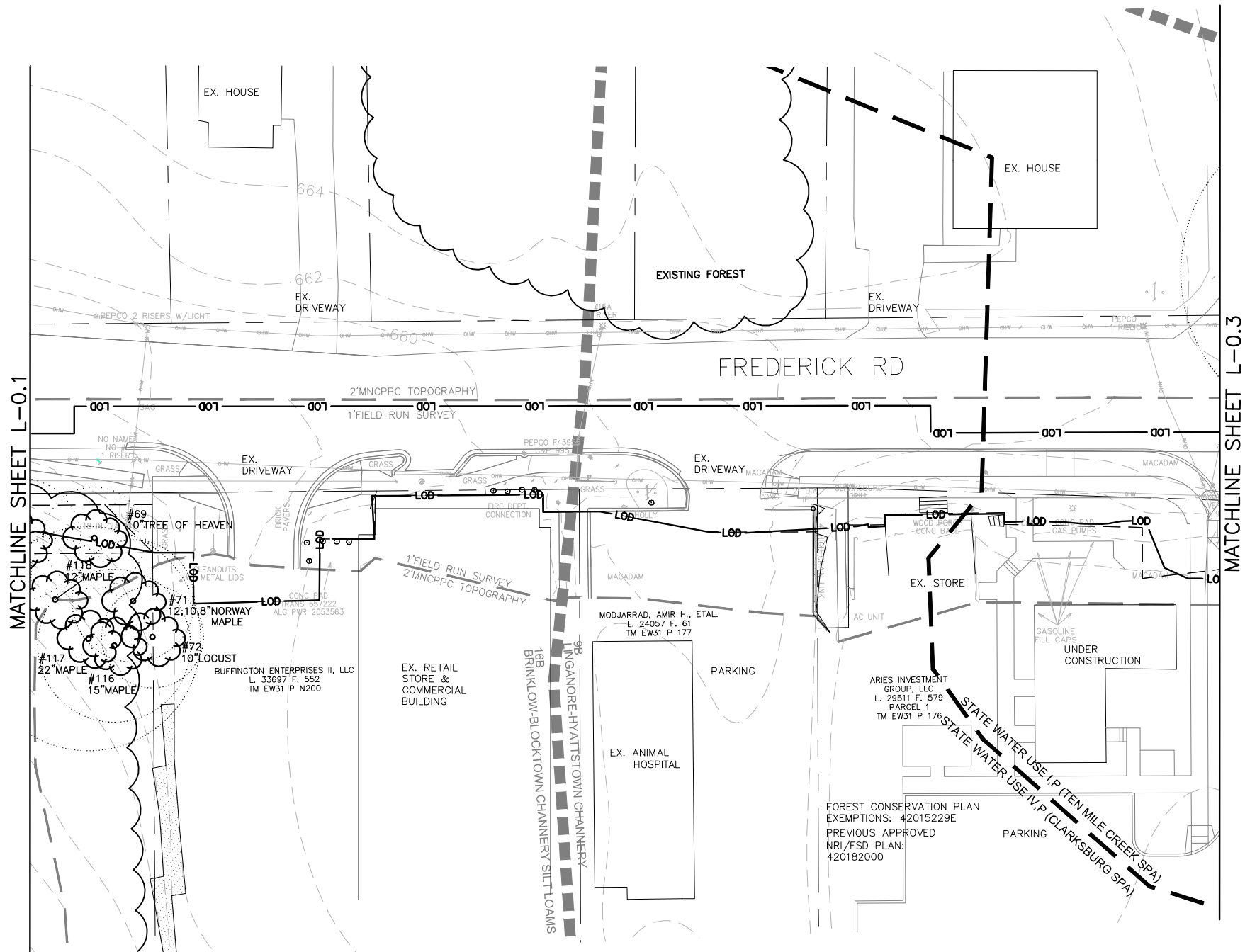
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18
DATE

Michael A. Norton
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL



VICINITY MAP
1"=2000'



- LEGEND**
- #1 26" RED OAK** EXISTING SIGNIFICANT TREE $\geq 24"$ AND $< 30"$ DBH AND CRITICAL ROOT ZONE
 - #2 32" RED OAK** EXISTING SPECIMEN TREE $\geq 30"$ DBH * OR $> 6"$ WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
 - SOIL BOUNDARY**
 - LOD** PROPOSED LIMITS OF DISTURBANCE
 - 1' SURVEY TOPO** **2' MNCPPC TOPO** LIMITS OF SURVEY
 - MODERATE SLOPES 15% - 25%**
 - STEEP SLOPES $\geq 25\%$**
 - PROPERTY BOUNDARY**
 - EXISTING FOREST AREA**
 - STATE WATER USE (SPA) DIVIDE LINE**
 - TEMPORARY EASEMENT**

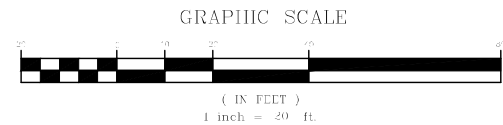
* EXISTING TREE $> 1"$ WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

CERTIFICATION OF QUALIFIED PROFESSIONAL

I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

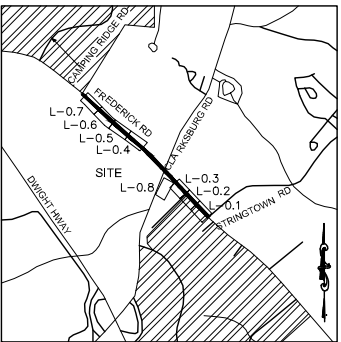
11.30.18
DATE

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

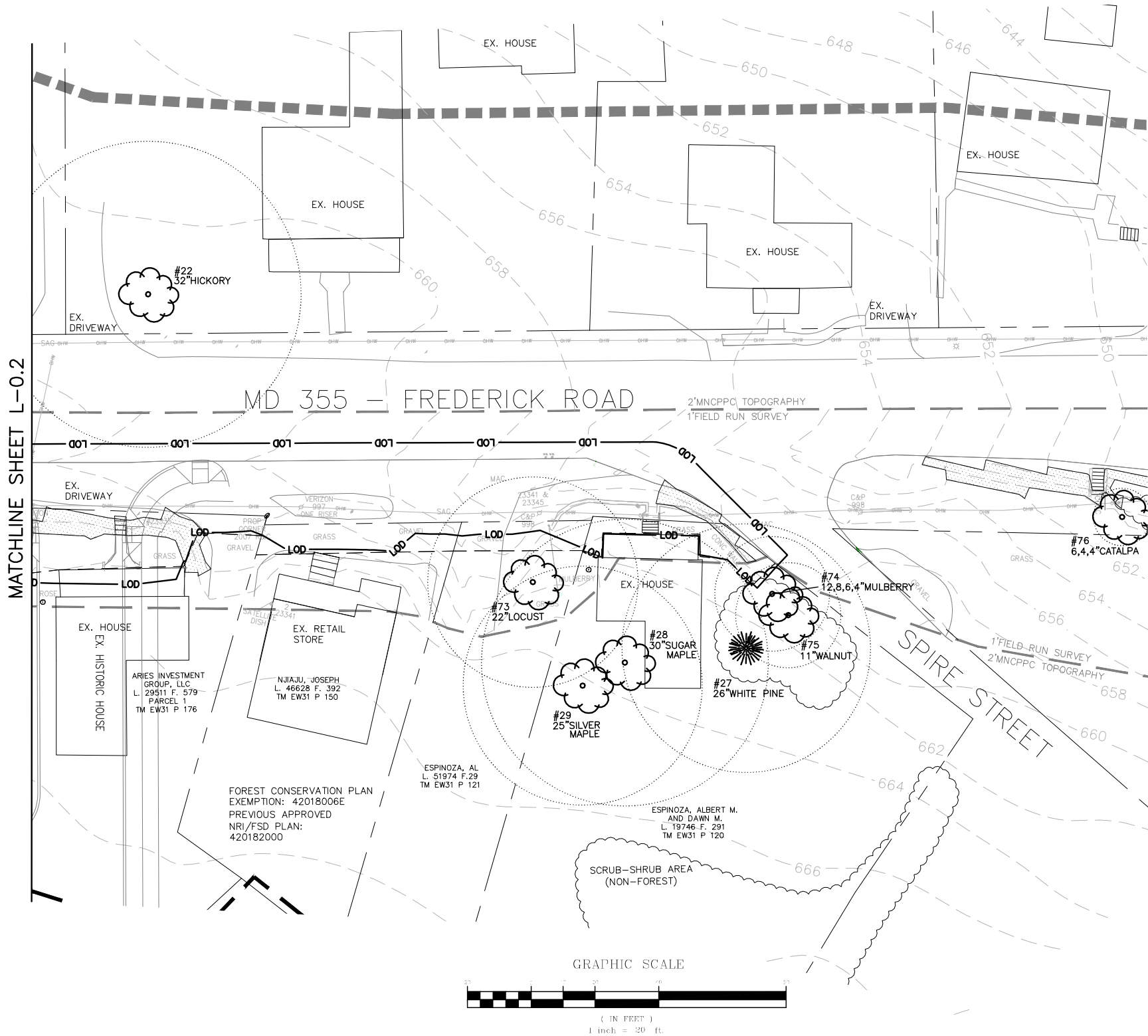


NORTON LAND DESIGN LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5146 DORSEY HALL DRIVE, 2ND FLOOR BALTIMORE, MD 21204 BALT. 443.542.9199 x101 DC 240.342.2329 x101 WWW.NORTONLANDDESIGN.COM			
WATER CLASS I, P, IV, P	WATERSHED LITTLE SENECA CREEK	FEMA FLOODPLAIN MAP PANEL # 24031C 0160D	
TRIBUTARY ROCK CREEK			
TAX MAP EW341, EW121	200 SHEET 232NW13, 233NW14	ADC MAP PAGE 9	GRID B-3 C-3, 4
SCALE AS SHOWN	DATE NOVEMBER 2018	PROJ. NO. 15-138	SHEET NO. L-0.2

MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION 100 EDISON PARK DRIVE, 4TH FLOOR GAITHERSBURG, MD 20878				PLAN SHEET L-0.2 NRI/FSD PLAN			
DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL				MD 355 - CLARKSBURG SHARED USE PATH NO. 420182000			
NO.	REVISION	DATE	BY	Designed by : S.K.L.	Drawn by : H.J.	Checked by : M.N.	Project No. : C.I.P. PR. # 501744
							SHEET 62 of 96



VICINITY MAP
1"=2000'



LEGEND

- EXISTING SIGNIFICANT TREE >24" DBH AND <30" DBH AND CRITICAL ROOT ZONE
- EXISTING SPECIMEN TREE >30" DBH * OR >6" WITHIN HISTORIC DISTRICT AND CRITICAL ROOT ZONE
- SOIL BOUNDARY
- PROPOSED LIMITS OF DISTURBANCE
- LIMITS OF SURVEY
- MODERATE SLOPES 15% - 25%
- STEEP SLOPES ≥ 25%
- PROPERTY BOUNDARY
- EXISTING FOREST AREA
- EXISTING SCRUB-SHRUB AREA
- TEMPORARY EASEMENT

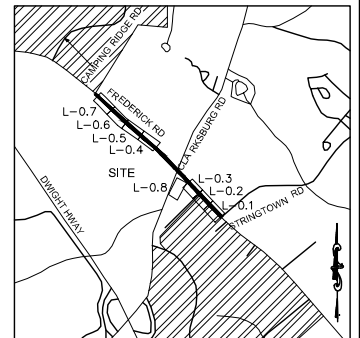
* EXISTING TREE >1" WITHIN HISTORIC DISTRICT WILL BE DELINEATED DURING FOREST CONSERVATION PLAN

CERTIFICATION OF QUALIFIED PROFESSIONAL

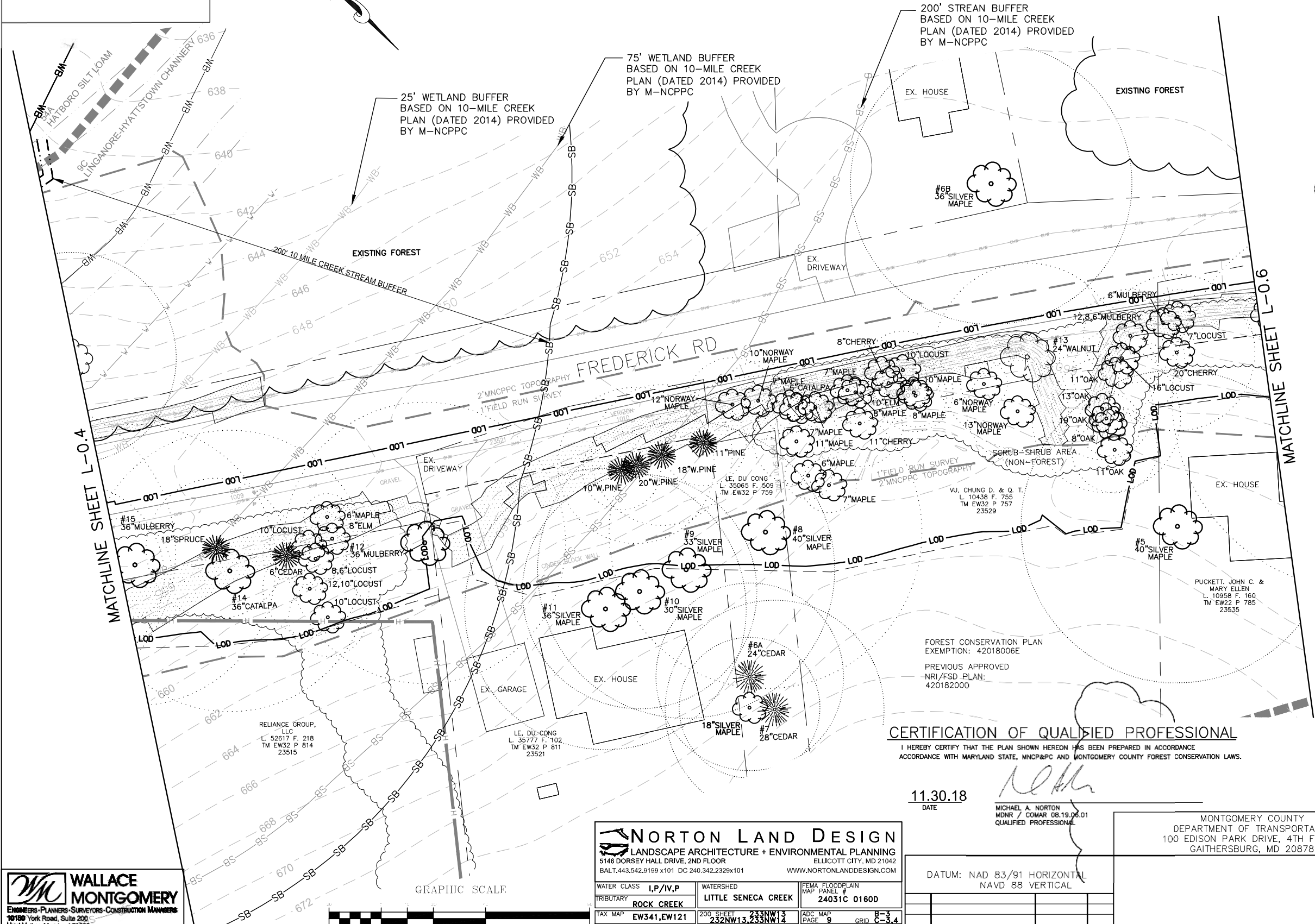
I HEREBY CERTIFY THAT THE PLAN SHOWN HEREON HAS BEEN PREPARED IN ACCORDANCE WITH MARYLAND STATE, MNC&PC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18
DATE

MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL



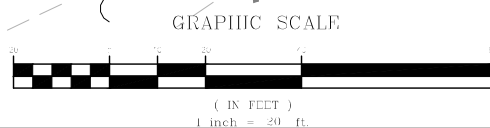
- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
 - EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
 - EXISTING SPECIMEN TREE >30" DBH OR >6" AND CRITICAL ROOT ZONE
 - SOIL BOUNDARY
 - PROPOSED LIMITS OF DISTURBANCE
 - LIMITS OF SURVEY
 - MODERATE SLOPES 15% - 25%
 - STEEP SLOPES ≥ 25%
 - PROPERTY BOUNDARY
 - EXISTING FOREST AREA
 - EXISTING SCRUB-SHRUB AREA
 - FOREST SAMPLE PLOT
 - HISTORIC DISTRICT
 - TEMPORARY EASEMENT
 - EXISTING FIELD DELINEATED STREAM
 - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
 - EXISTING FIELD DELINEATED WETLAND
 - 25' STATE REGULATED WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
 - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
 - WETLAND BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
 - 25' STATE REGULATED WETLAND BUFFER BASED ON M-NCPPC RESOURCE
 - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON M-NCPPC RESOURCE
 - STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
 - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCPPC RESOURCE



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ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

11.30.18
DATE
MICHAEL A. NORTON
MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL

NORTON LAND DESIGN LANDSCAPE ARCHITECTURE + ENVIRONMENTAL PLANNING 5146 DORSEY HALL DRIVE, 2ND FLOOR BALT. 443.542.9199 x101 DC 240.342.2329 x101 ELLIOTT CITY, MD 21042 WWW.NORTONLANDDESIGN.COM			
WATER CLASS	I, P/IV, P	WATERSHED	LITTLE SENeca CREEK
TRIBUTARY	ROCK CREEK	FEMA FLOODPLAIN MAP PANEL #	24031C 0160D
TAX MAP	EW341, EW121	200' SHEET	233NW13, 233NW14
SCALE	AS SHOWN	DATE	NOVEMBER 2018
PROJ. NO.	15-138	SHEET NO.	L-0.5



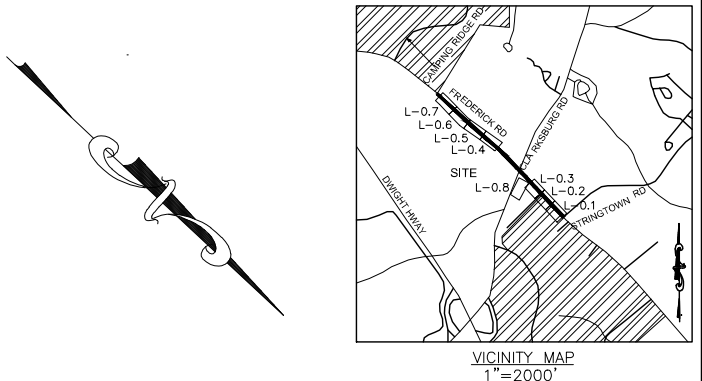
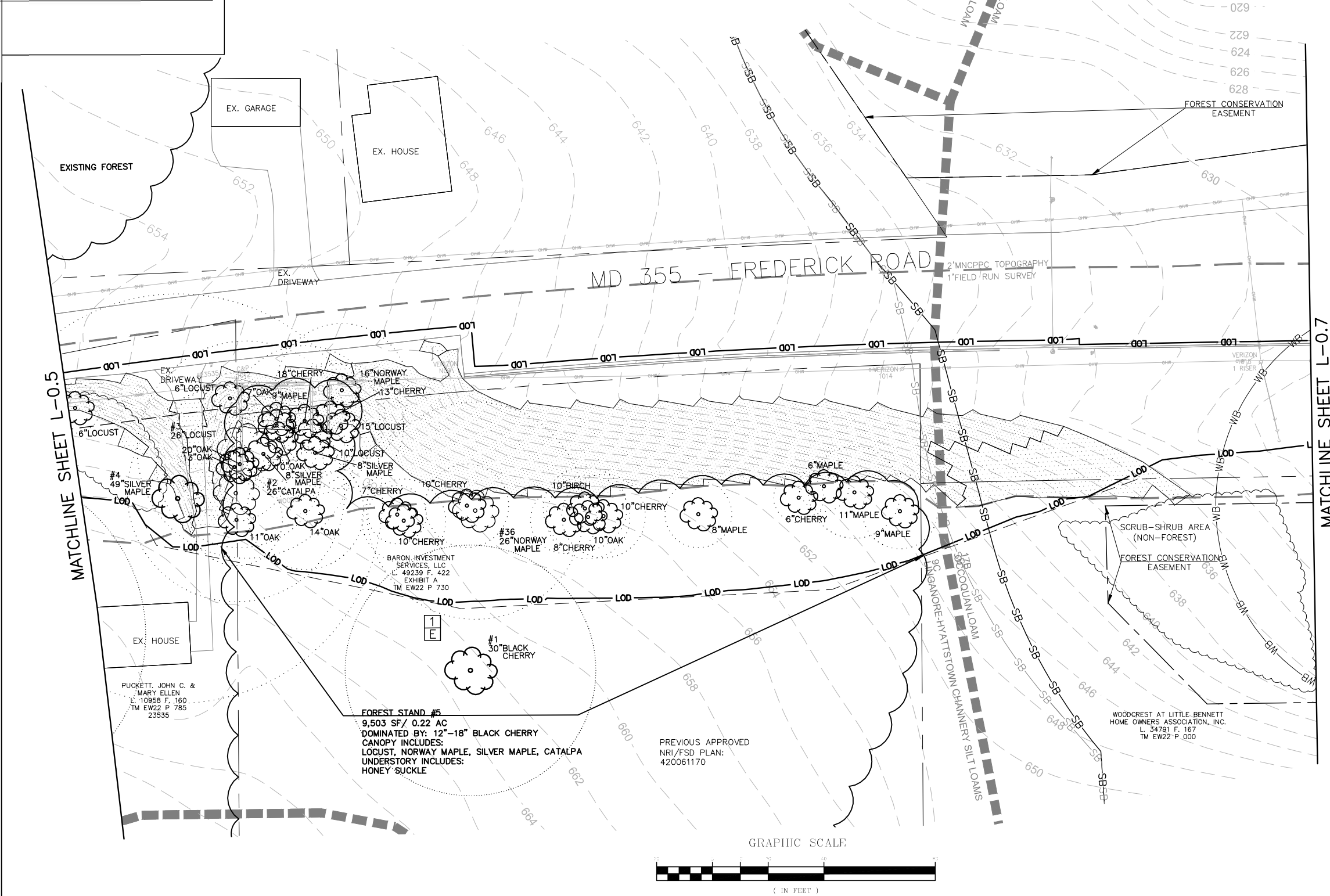
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE, 4TH FLOOR
GAITHERSBURG, MD 20878

**PLAN SHEET L-0.5
NRI/FSD PLAN**
**MD 355 - CLARKSBURG
SHARED USE PATH**
NO. 420182000

DATUM: NAD 83/91 HORIZONTAL NAVD 88 VERTICAL			
NO.	REVISION	DATE	BY

Designed by : S.K.L. Drawn by : H.J. Checked by : M.N.

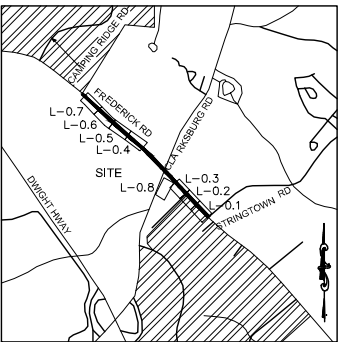
Project No. : C.I.P. PR. # 501744 SHEET 65 of 96



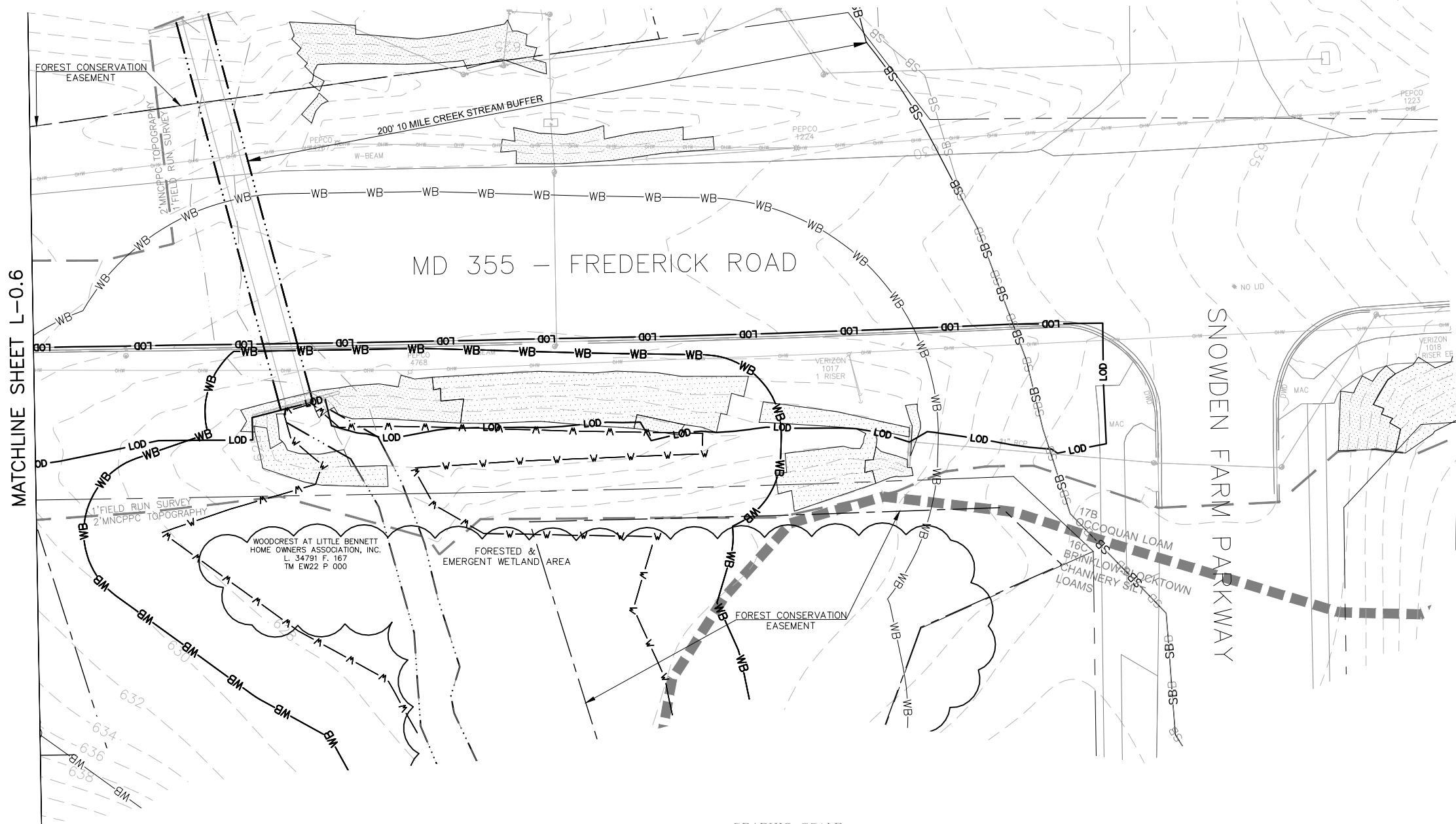
- LEGEND**
- EXISTING TREE >6" AND <24" DBH AND CRITICAL ROOT ZONE
 - EXISTING SIGNIFICANT TREE >24" AND <30" DBH AND CRITICAL ROOT ZONE
 - EXISTING SPECIMEN TREE ≥30" DBH AND CRITICAL ROOT ZONE
 - SOIL BOUNDARY
 - PROPOSED LIMITS OF DISTURBANCE
 - LIMITS OF SURVEY
 - MODERATE SLOPES 15% - 25%
 - STEEP SLOPES ≥ 25%
 - PROPERTY BOUNDARY
 - EXISTING FOREST AREA
 - EXISTING SCRUB-SHRUB AREA
 - FOREST CONSERVATION EASEMENT
 - TEMPORARY EASEMENT
 - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
 - 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCPPC RESOURCE
 - 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND

CERTIFICATION OF QUALIFIED PROFESSIONAL
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ACCORDANCE WITH MARYLAND STATE, MNCPPC AND MONTGOMERY COUNTY FOREST CONSERVATION LAWS.

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QUALIFIED PROFESSIONAL



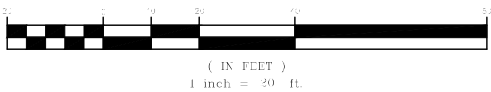
VICINITY MAP
1"=2000'



LEGEND

- 16D 2UB SOIL BOUNDARY
- LOD PROPOSED LIMITS OF DISTURBANCE
- 1' SURVEY TOPO 2' MNCPPC TOPO LIMITS OF SURVEY
- MODERATE SLOPES 15% - 25%
- STEEP SLOPES \geq 25%
- PROPERTY BOUNDARY
- EXISTING FOREST AREA
- EXISTING SCRUB-SHRUB AREA
- FOREST CONSERVATION EASEMENT
- TEMPORARY EASEMENT
- EXISTING FIELD DELINEATED STREAM
- 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON FIELD DELINEATED STREAM
- STREAM BOUNDARY PROVIDED BY M-NCPPC BASED ON 10-MILE CREEK PLAN (DATED 2014)
- 200' 10 MILE CREEK SPA STREAM BUFFER BASED ON M-NCPPC RESOURCE
- EXISTING FIELD DELINEATED WETLAND
- 25' STATE REGULATED WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND
- 75' 10 MILE CREEK SPA WETLAND BUFFER BASED ON FIELD DELINEATED WETLAND

GRAPHIC SCALE



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11.30.18
DATE

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MDNR / COMAR 08.19.06.01
QUALIFIED PROFESSIONAL



11.30.18
DATE

 <h1>NORTON LAND DESIGN</h1>			
<p>LANDSCAPE ARCHITECTURE & ENVIRONMENTAL PLANNING</p> <p>5146 DORSEY HALL DRIVE, 2ND FLOOR ELICOTT CITY, MD 21042</p> <p>BALT.443.542.9199 x101 DC.240.342.2329x101 WWW.NORTONLANDDESIGN.COM</p>			
WATER CLASS		WATERSHED	
I,P/IV,P			
TRIBUTARY		LITTLE SENECA CREEK	
ROCK CREEK			
TAX MAP		200 SHEET	
EW341,EW121		233NW13, 233NW14, 233NW15	
		ADC MAP	
		PAGE 9	
		GRID	
		B-3 C-3,4	
SCALE		DATE	
AS SHOWN		NOVEMBER 2018	
		PROJ. NO.	
		15-138	
		SHEET NO.	
		L-0.8	

NO.	REVISION	DATE	BY
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Designed by : S.K.L. Drawn by : H.J. Checked by : M.N.

11/2018

96

TRANSMITTAL LETTER

TO :
Maryland National Capitol Parks and
Planning Commission
8787 Georgia Ave
Silver Spring MD 20910
United States
ATTENTION: Rebecccah Ballo

DATE: 8/15/2019

PROJ NO: 214013.0010

RE: MD 355 Clarksburg Shared
Use Path

QTY	DATED	DESCRIPTION
1	8/12/2019	2019-08-12_MHTSubmittal
1	8/15/2019	2019-08-15_MHTSubmDocsToMNCPPC

REMARKS: Rebecccah,

Click on the link to download for your records documents, including the
Phase II report, we delivered to MHT on 8/13/19.

Thanks.

Scott

Yasamin Esmaili	(Montgomery County Government)
Daniel Sheridan	(Montgomery County Government)
Jeanne Ward	(Applied Archaeology and History Assoc. Inc.)
Mark Bodmann	(WM&A)
Timothy Connor	(Gannett Fleming)
Ying Liu	(Gannett Fleming)
Jessica Klinefelter	(WM&A)
Jessica Shearer	(WM&A)

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Users of this digital information must check and verify compliance with the sealed original plans, as variances may result due to the

Transmittal

DATE: 8/15/2019
TRANSMITTAL ID: 00019

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