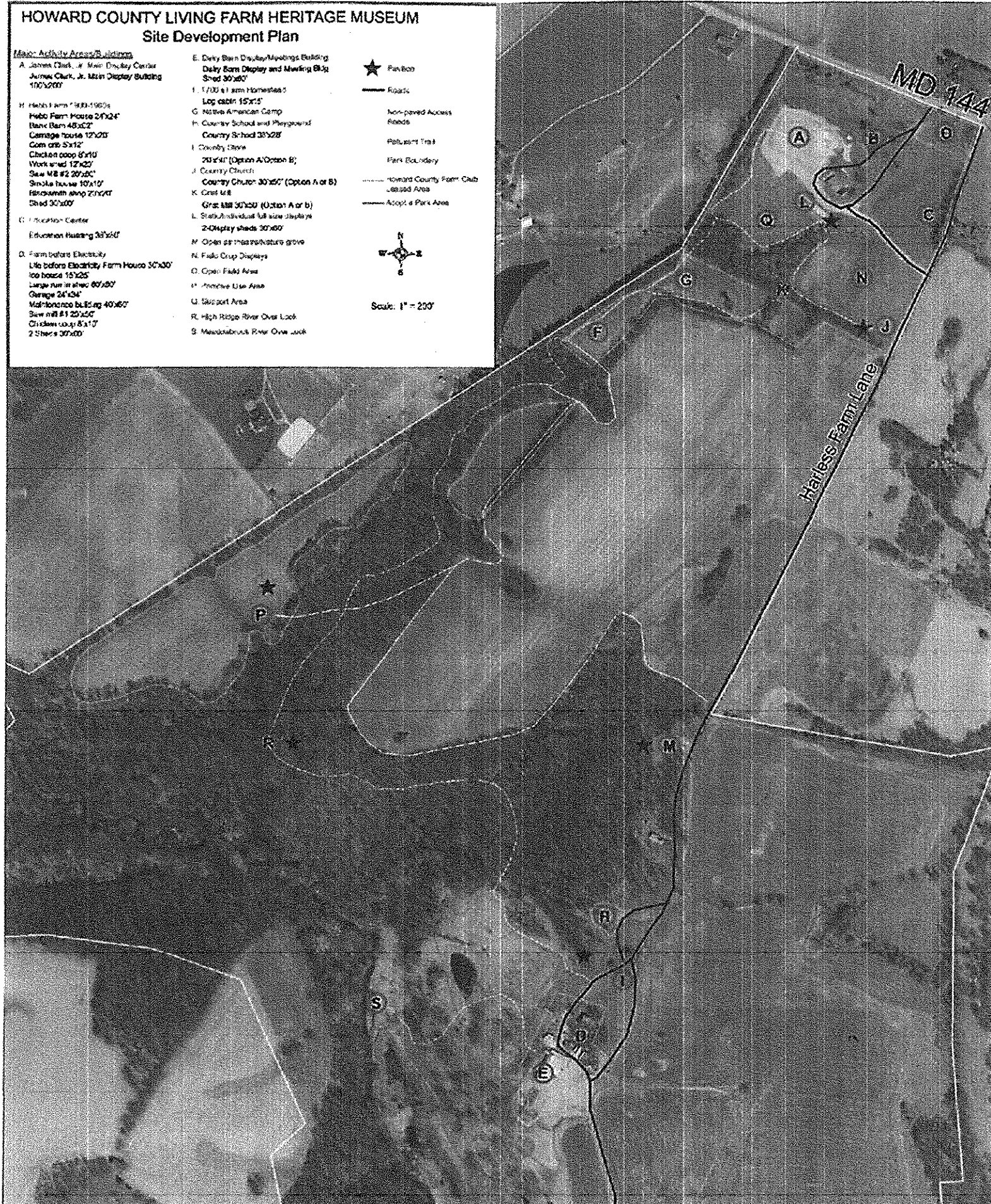
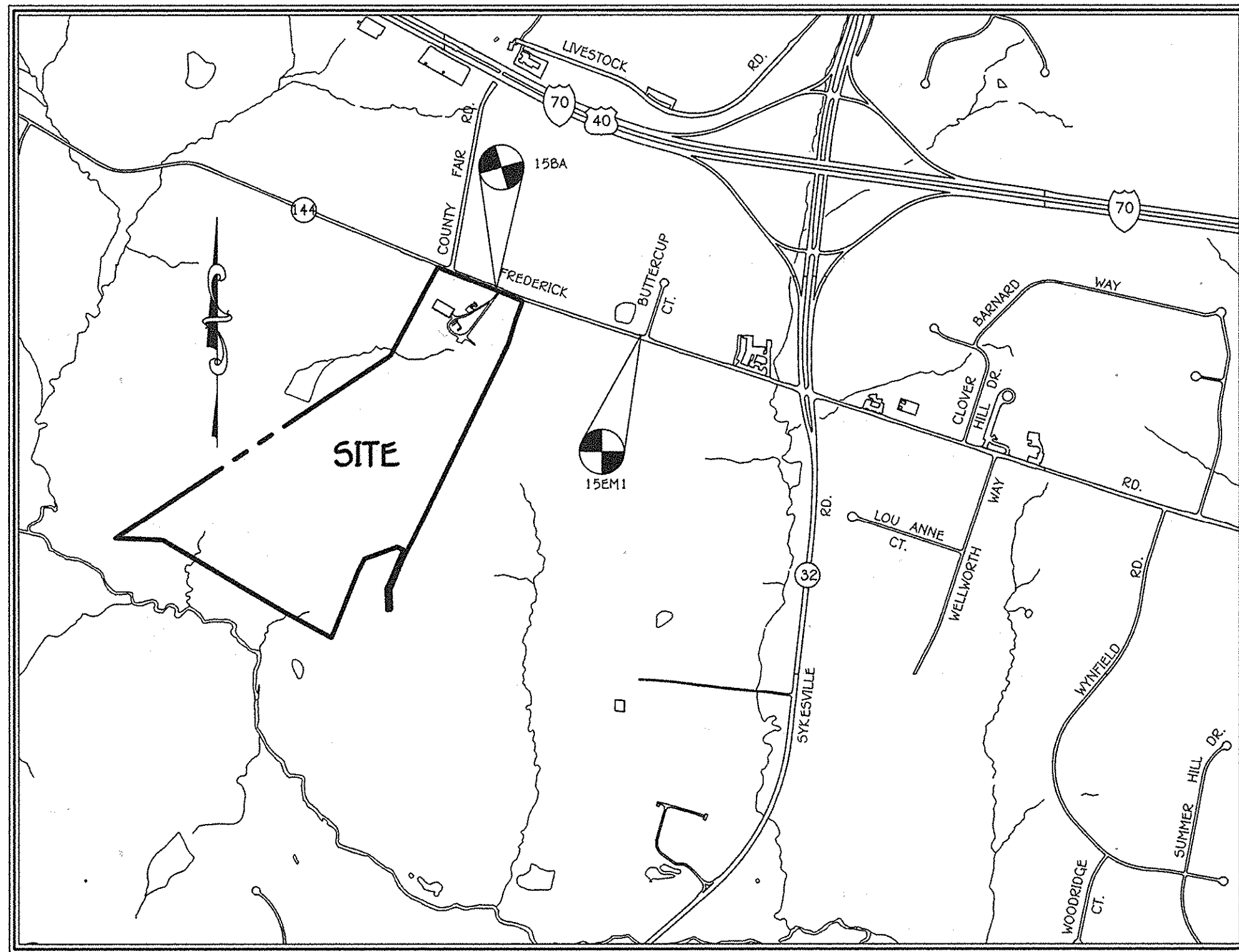


TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142



NOT TO SCALE



VICINITY MAP
SCALE: 1" = 1200'

THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

ALL INFORMATION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.

2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST (3) WORKING DAYS PRIOR TO THE START OF WORK.

3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-297-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

4. THIS SUBDIVISION PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS OF THE 2004 ZONING REGULATORY CODE, ORDINANCE BILL NO. 44-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL NO. 44-2013 AND THE COMPREHENSIVE ZONING REGULATION EFFECTIVE 10/6/13 ADOPTED AS CB 32-2013. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS OR PARCELS MUST COMPLY WITH SETBACKS AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF A BUILDING OR GRADING PERMIT APPLICATION.

5. COORDINATES BASED ON NAD83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO 1504 AND NO. 15241
Station NO. 1504 N 59°22'28 E 1321719 Elev. = 590.20
Station NO. 15241 N 59°41'0 E 1323950 Elev. = 513.20

6. THE SUBJECT PROPERTY IS ZONED RC-OEO PER THE 10/6/13 COMPREHENSIVE ZONING PLAN.

7. BACKGROUND INFORMATION:

A. PROPERTY NAME: HOWARD COUNTY LIVING FARM HERITAGE MUSEUM
B. TAX MAP NO.: 15
C. PARCELS NOS.: 142
D. ZONING: RC-OEO
E. ELECTION DISTRICT: THIRD
F. GEOS AREA OF THIS PROPERTY = 135.4 A.C.
G. NUMBER OF PARCELS: 1
H. NUMBER OF OPEN SPACE LOTS: n/a
I. AREA OF PARCELS: 135.4 A.C.
J. AREA OF NON-CORRECTED OPEN SPACE LOTS = n/a
K. AREA OF PUBLIC ROADWAY TO BE DEDICATED: 0.00 ACRES
L. PREVIOUS FILE NUMBERS: WF-15-125
M. AREA OF FLOODPLAIN = 0.00 AC.
N. AREA OF 25% OR GREATER SLOPE = 0.00 AC.
O. NET AREA OF SUBMISSION = 135.4 A.C.
P. REQUIRED PARKING PER DEPARTMENT OF RECREATION AND PARKS 84.
Q. PROVIDED PARKING FOR THE SITE IS: 6 STANDARD SPACES, 4 HANDICAP SPACES AND 74 GRASS PARKING SPACES = 84 TOTAL.

8. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF ASPHALT T-180.

9. EXISTING WATER IS PRIVATE AND THE EXISTING SEWER IS PRIVATE.

10. BOUNDARY OUTLINE BASED ON MDSAT INFORMATION DATED MAY 15, 2013.

11. TOPOGRAPHIC CONTOURS BASED ON A FIELD RUND SURVEY PERFORMED BY FISHER, COLLINS AND CARTER, INC. DATED AUGUST 16, 2012.

12. EROSION/MATERIAL MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE 2007 MDE, CHAPTER 5 REGULATIONS AND THE LATEST HOWARD COUNTY DESIGN MANUAL, VOL. I, CHAPTER 5 ADOPTED ON OR AROUND MAY 4, 2010. WATER QUALITY AND CHANNEL PROTECTION VOLUME WILL BE PROVIDED BY ROOFTOP DISCONNECTION AREAS AND RAINFALL HARVESTING. WE ARE PROVIDING THE REQUIRED VOLUMES BY A PLANNED CISTERN (M-1) AND A MICRO-BIO RETENTION FACILITY (M-6). THE CISTERN IS TREATING THE ROOFTOP RUNOFF AND THE MICRO-BIO RETENTION FACILITY IS TREATING THE PROPOSED LOTS AND CHIP PAVING AREA. OVERSARE FLOOD PROTECTION VOLUME AND EXTREME FLOOD AREAS ARE NOT REQUIRED FOR THIS SITE. ALL ROOFTOP AND RAIN HARVESTING STORMWATER MANAGEMENT FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY THE H.O.A. OR COMMERCIAL ASSOCIATION.

13. SEVERAL SPECIMEN TREES ARE KNOWN TO BE LOCATED WITHIN THE EXISTING FOREST; HOWEVER THEY WERE NOT SURVEYED BECAUSE THERE WILL BE NO PROPOSED DISTURBANCES WITHIN THE EXISTING FOREST.

14. THERE ARE NO FLOODPLAIN AREAS LOCATED ON THIS PARCEL OF LAND.

15. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT. THE FOREST CONSERVATION EASEMENT IS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT. THE FOREST CONSERVATION OBLIGATION OF 0.32 ACRES HAS BEEN FULFILLED BY THE RETENTION OF 0.64 ACRES LOCATED ON THE WEST FRIENDSHIP PARK SITE OUTSIDE OF THE PROPOSED LIMIT OF DISTURBANCE. NO SURETY IS REQUIRED FOR FOREST RETENTION.

16. THE ENVIRONMENTAL REPORT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JUNE 18, 2013.

17. THIS PROPERTY IS NOT LOCATED WITHIN THE METROPOLITAN DISTRICT.

18. NO CEMETERIES EXISTS ONSITE. HOWEVER THE EXISTING HOUSE WAS BUILT IN THE 1920'S AND IS CONSIDERED AN HISTORIC STRUCTURE WITHIN THIS SUBDIVISION.

19. THIS PROJECT DOES NOT REQUIRE AN APPQ REPORT OR TRAFFIC REPORT.

20. NO GRADING REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS, THEIR BUFFERS, FOREST CONSERVATION EASEMENT OR AREAS OF 100-YEAR FLOODPLAIN.

21. LANDSCAPING HAS BEEN SHOWN IN ACCORDANCE WITH SECTION 16.124 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND LANDSCAPE MANUAL. PERIMETER LANDSCAPING HAS BEEN MET BY TAKING CREDIT FOR EXISTING VEGETATION. NO SURETY IS REQUIRED.

22. THIS PLAN DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT. THE DISPOSITION OF THE DISPOSITION OF ANY SEWAGE IN THIS AREA AREA IS THE RESPONSIBILITY OF THE PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.

23. THIS PLAN IS SUBJECT TO WAIVER PETITION WF-15-125. THIS WAIVER APPROVED ON MAY 5, 2015, PERTAINED TO SUBSECTION 16.1200 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WHICH REQUIRES THAT FOREST CALCULATIONS BE BASED ON "NET AREA". THIS WAIVER IS TO ALLOW THE FOREST CONSERVATION CALCULATIONS TO BE BASED ON THE LIMITS OF DISTURBANCE INSTEAD OF THE NET TRACT AREA. THE WAIVER APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:

1. A GRANT OF EASEMENT TO ESTABLISH A 0.64 ACRE FOREST RETENTION EASEMENT AREA ON THE WEST FRIENDSHIP PARK SITE MUST BE PROCESSED THROUGH THE DEPARTMENT OF PUBLIC WORKS, REAL ESTATE SERVICES DIVISION PRIOR TO SUBMITTING THE ORIGINAL SDP MYLAW FOR FINAL SIGNATURE.

2. COMPLIANCE WITH THE COMMENTS GENERATED WITH THE REVIEW OF SDP-15-079.

24. THE SDA MUST BE FENCED OFF TO PREVENT VEHICLE TRAFFIC FROM DAMAGING THE AREA DAMAGE FROM ADDITIONAL VEHICLE TRAFFIC MAY RENDER THE AREA UNUSABLE THUS PREVENTING THE HEALTH DEPARTMENT FROM SIGNING OFF ON ANY FUTURE BUILDING PERMITS UNTIL A NEW SDA IS ESTABLISHED.

REDLINE	PURPOSE	LIMIT OF DISTURBANCE
1	ADD 6' SIDEWALK, REVISE GRADING & ENLARGE PORCH TO 30'	0 sf
2	ADD ADA RAMP AND 8 PARKING SPACES.	4,316 sf

*WHEN CUMULATIVE LOD EXCEEDS 5000sf, STORM WATER MANAGEMENT WILL BE REQUIRED.



By B. Wilton for Mamma Roszman 9/21/2015
Howard County Health Officer H.O. R Date

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELlicOTT CITY, MARYLAND 21042
(410) 461 - 2895

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 07/14/25.


9/23/20

DATE _____



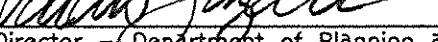
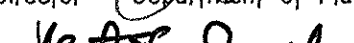
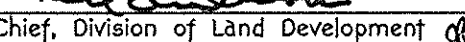
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20740, Expiration Date: March 22, 2015.

0740, Expiration Date: March 22, 2015.



ALDO M. STUCCI, P.E.

8/12/15
DATE

0/20/2024	ADD ADA RAMP AND 8 PARKING SPACES.	
DATE	ADD 6' SIDEWALK, REVISE GRADING & ENLARGE PORCH TO 30'	
	DESCRIPTION	
	REVISION BLOCK	
APPROVED: DEPARTMENT OF PLANNING AND ZONING		
 Director - Department of Planning and Zoning		10-13-15 DATE
 Chief, Division of Land Development		10-13-15 DATE
 Chief, Division of Engineering		10-1-15 DATE

HOWARD COUNTY RECREATION AND PARKS
C/O MR. JOHN R. BYRD, DIRECTOR
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046-1677
PHONE: (410) 313-4640

HOWARD COUNTY LIVING FARM HERITAGE MUSEUM
C/O MR. JOHN FRANK
12985 ROUTE 144.
WEST FRIENDSHIP, MARYLAND 21794
PHONE: (410) 489-2345

Address Chart							
BUILDING NO.		STREET ADDRESS					
		12905 FREDERICK ROAD					
		WEST FRIENDSHIP, MARYLAND 21794					
PROJECT HOWARD COUNTY LIVING FARM HERITAGE MUSEUM		SECTION/AREA —		PARCELS 142		LOT —	
DEED REF.		BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.	
L.635, F.331		9,10,15,16	RC-DEO	15	THIRD	6030	
-----				-----			

**HOWARD COUNTY LIVING FARM
HERITAGE MUSEUM
KNOWN AS WEST FRIENDSHIP PARK
PARKING LOT ADDITION**

TAX MAP No. 15 GRID No. 9, 10, 15, AND 16
PARCEL 142
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: MAY 12, 2015

SHEET 1 OF 7 SDP-14-079

LEGEND

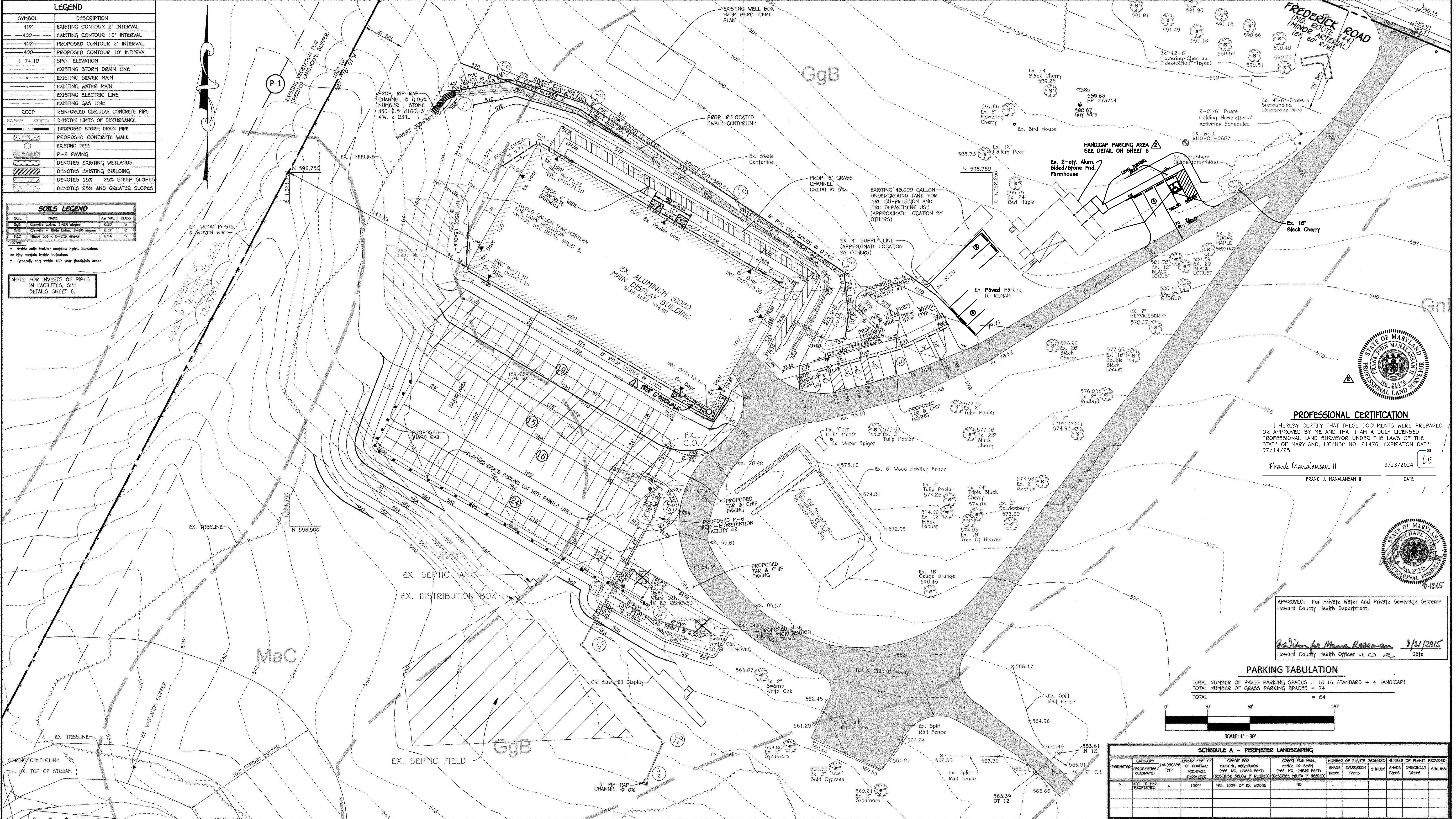
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
+ 74.10	SPOT ELEVATION
---	EXISTING STORM DRAIN LINE
---	EXISTING SEWER MAIN
---	EXISTING WATER MAIN
---	EXISTING ELECTRIC LINE
---	EXISTING GAS LINE
---	RCCP
---	REINFORCED CIRCULAR CONCRETE PIPE
---	PROPOSED STORM DRAIN PIPE
---	PROPOSED CONCRETE WALK
---	EXISTING TREE
---	P-2 PAVING
---	DENOTES EXISTING WETLANDS
---	DENOTES EXISTING BUILDING
---	DENOTES 15% - 25% STEEP SLOPES
---	DENOTES 25% AND GREATER SLOPES

SOILS LEGEND

SOIL	NAME	CL. VAL.	CLASS
Ggb	Glenville Loam, 3-8% slopes	0.20	B
Ggb	Glenville - Balle Loam, 3-8% slopes	0.37	C
Wb	Minor Loam, 8-15% slopes	0.24	B

NOTES:
* Hydric soils and/or contains hydric inclusions
** May contain hydric inclusions
† Generally only within 100-year floodplain areas

NOTE: FOR INVERTS OF PIPES IN FACILITIES, SEE DETAILS SHEET 6.



PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 07/14/25.

Frank J. Manalansan II
9/23/2024

PARKING TABULATION

TOTAL NUMBER OF PAVED PARKING SPACES = 10 (6 STANDARD + 4 HANDICAP)
TOTAL NUMBER OF GRASS PARKING SPACES = 74
TOTAL = 84

SCALE: 1" = 30'

SCHEDULE A - PERIMETER LANDSCAPING											
PERMETER	CATEGORY (PROPERTIES/ROADWAYS)	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL, FENCE OR BURN (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED			NUMBER OF PLANTS PROVIDED		
						SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES	EVERGREEN TREES	SHRUBS
P-1	ADD TO PER- PROPERTIES	A	100%	YES, 100% OF EX. WOODS	NO	-	-	-	-	-	-
			</								

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21046
(410) 461 - 2895

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

Signature of Engineer: *[Signature]* Date: 9-12-15

DEVELOPER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *[Signature]* Date: 8-12-15

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20740, Expiration Date: March 22, 2015.

Signature: *[Signature]* Date: 9/15/15
ALDO M. VECCHI, P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: 8/31/15
Howard SCD

DATE	DESCRIPTION	REVISION BLOCK
9/20/2024	ADD ADA RAMP AND 8 PARKING SPACES.	
9/15/15	ADD 6' SIDEWALK, REMOVE GRADING & UNPAVED PORCH TO 90'	
10-13-15		
10-13-15		
10-1-15		

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Director - Department of Planning and Zoning
Chief, Division of Land Development
Chief, Development Engineering Division

OWNER
HOWARD COUNTY RECREATION AND PARKS
C/O MR. JOHN R. BYRD, DIRECTOR
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046-1677
PHONE: (410) 313-4640

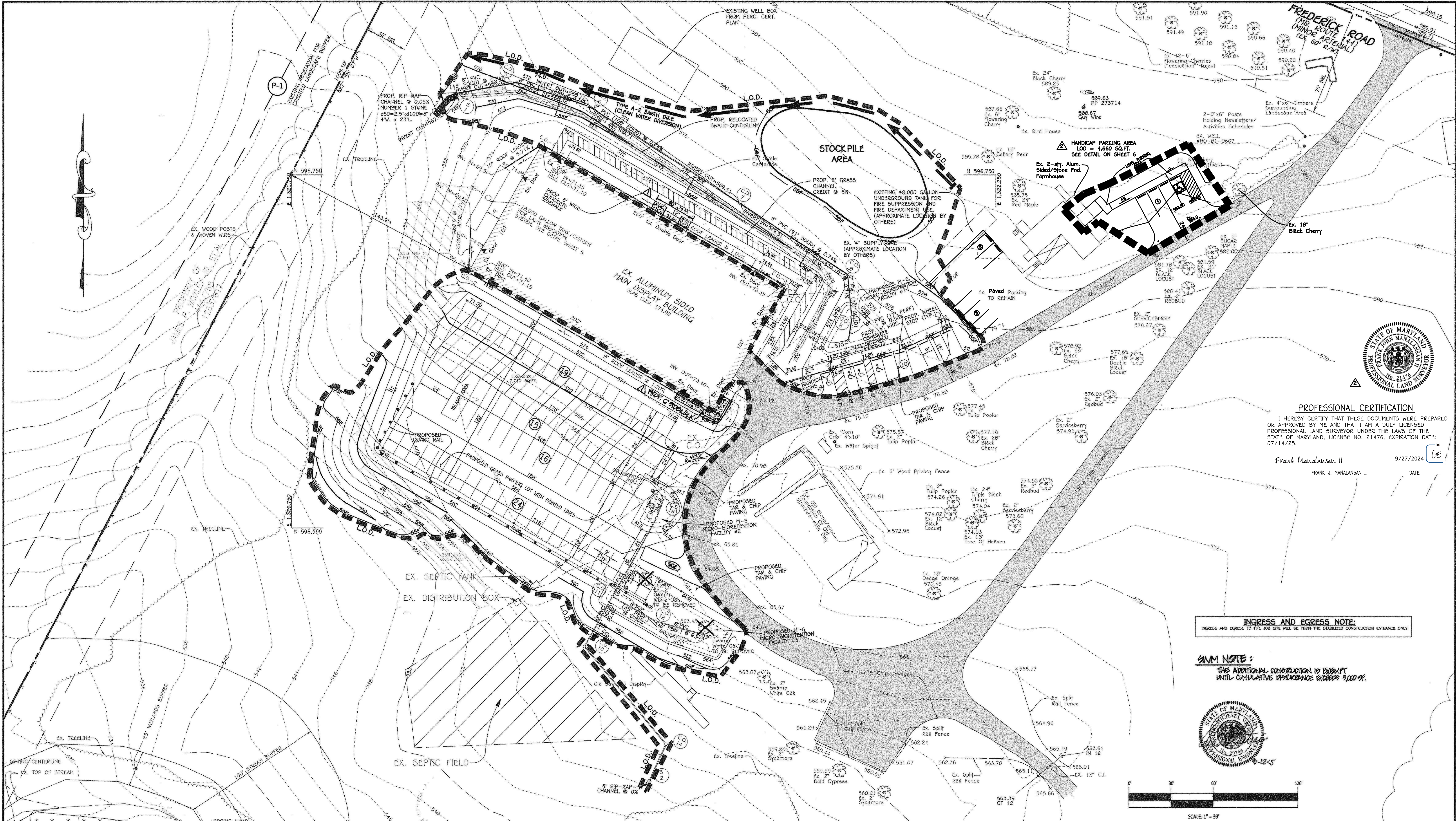
DEVELOPER
HOWARD COUNTY LIVING FARM HERITAGE MUSEUM
C/O MR. JOHN FRANK
12985 ROUTE 144
WEST FRIENDSHIP, MARYLAND 21794
PHONE: (410) 499-2345

Address Chart

BUILDING NO.	STREET ADDRESS
	12985 FREDERICK ROAD
	WEST FRIENDSHIP, MARYLAND 21794

PROJECT: HOWARD COUNTY LIVING FARM HERITAGE MUSEUM
DEED REF. L.635, F.331
BLOCK NO. 9,10,15,16
ZONE RC-DEO
TAX MAP 15
ELEC. DIST. THIRD
CENSUS TR. 6030

SITE DEVELOPMENT, LANDSCAPE AND SOILS MAP
HOWARD COUNTY LIVING FARM HERITAGE MUSEUM
KNOWN AS WEST FRIENDSHIP PARK
PARKING LOT ADDITION
TAX MAP No. 15 GRID No. 9, 10, 15, AND 16
PARCEL 142
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY 13, 2015
SHEET 2 OF 7 SDP-14-079



FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 (410) 441 - 2295	ENGINEER'S CERTIFICATE "I certify that this sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." Signature of Engineer 8-12-15 Date	DEVELOPER'S CERTIFICATE "I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District." Signature of Developer 8-12-15 Date	PROFESSIONAL CERTIFICATION "Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Engineer under the laws of the State of Maryland, License No. 20740, Expiration Date: March 22, 2015." ALDO M. VITUCCI, R.E. 8-12-15 DATE	<table><tr><td>9/20/2024</td><td>ADD ADA RAMP AND 8 PARKING SPACES.</td></tr><tr><td>DATE</td><td>DESCRIPTION</td></tr><tr><td colspan="2">REVISION BLOCK</td></tr><tr><td colspan="2">APPROVED: DEPARTMENT OF PLANNING AND ZONING</td></tr><tr><td> Director - Department of Planning and Zoning</td><td>10-13-15 Date</td></tr><tr><td> Chief, Division of Land Development</td><td>10-13-15 Date</td></tr><tr><td> Chief, Development Engineering Division</td><td>10-1-15 Date</td></tr></table>	9/20/2024	ADD ADA RAMP AND 8 PARKING SPACES.	DATE	DESCRIPTION	REVISION BLOCK		APPROVED: DEPARTMENT OF PLANNING AND ZONING		 Director - Department of Planning and Zoning	10-13-15 Date	 Chief, Division of Land Development	10-13-15 Date	 Chief, Development Engineering Division	10-1-15 Date	OWNER HOWARD COUNTY RECREATION AND PARKS C/O MR. JOHN R. BYRD, DIRECTOR 7120 OAKLAND HILLS ROAD COLUMBIA, MARYLAND 21046-1677 PHONE: (410) 313-4640	DEVELOPER HOWARD COUNTY LIVING FARM HERITAGE MUSEUM C/O MR. JOHN FRANK 12985 ROUTE 144 WEST FRIENDSHIP, MARYLAND 21794 PHONE: (410) 429-2345	<table><tr><td colspan="2">Address Chart</td></tr><tr><td>BUILDING NO.</td><td>STREET ADDRESS</td></tr><tr><td></td><td>12985 FREDERICK ROAD</td></tr><tr><td></td><td>WEST FRIENDSHIP, MARYLAND 21794</td></tr><tr><td colspan="2">PROJECT</td></tr><tr><td>HOWARD COUNTY LIVING FARM HERITAGE MUSEUM</td><td>SECTION/AREA</td></tr><tr><td>DEED REF. L.635, F.331</td><td>142</td></tr><tr><td>BLOCK NO. 9,10,15,16</td><td>PARCELS 142</td></tr><tr><td>ZONE RC-DEO</td><td>LOT 142</td></tr><tr><td>TAX MAP 15</td><td>ELEC. DIST. 6030</td></tr><tr><td>CENSUS TR. 15</td><td></td></tr></table>	Address Chart		BUILDING NO.	STREET ADDRESS		12985 FREDERICK ROAD		WEST FRIENDSHIP, MARYLAND 21794	PROJECT		HOWARD COUNTY LIVING FARM HERITAGE MUSEUM	SECTION/AREA	DEED REF. L.635, F.331	142	BLOCK NO. 9,10,15,16	PARCELS 142	ZONE RC-DEO	LOT 142	TAX MAP 15	ELEC. DIST. 6030	CENSUS TR. 15		SEDIMENT CONTROL PLAN HOWARD COUNTY LIVING FARM HERITAGE MUSEUM KNOWN AS WEST FRIENDSHIP PARK PARKING LOT ADDITION TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: MAY 12, 2015 SHEET 3 OF 7 SDP-14-079
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CENSUS TR. 15																																												

SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)

A. Soil Preparation

1. Temporary Stabilization

a. Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment after the soil is loosened. It must not be rolled or dragged smooth but left in the roughened condition. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.

b. Apply fertilizer and lime as prescribed on the plans.

c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable method.

d. A soil test is required for any earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:

i. Soil pH between 6.0 and 7.0.

ii. Soluble salts less than 500 parts per million (ppm).

iii. Soil contains less than 40 percent clay but enough fine grained material (greater than 30 percent silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception: if lowgrasses will be planted, then a sandy soil (less than 30 percent silt plus clay) would be acceptable.

iv. Soil contains 1.5 percent minimum organic matter by weight.

v. Soil contains sufficient pore space to permit adequate root penetration.

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

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

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

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

B. Topsoiling

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

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

3. Topsoiling is limited to areas having 2:1 or flatter slopes where:

a. The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.

b. The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.

c. The original soil to be vegetated contains material toxic to plant growth.

d. The soil is so acidic that treatment with limestone is not feasible.

e. Areas having slopes steeper than 2:1 require special consideration and design.

5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:

a. Topsoil must be a loam, sandy loam, clay loam, silty loam, sandy clay loam, or loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Topsoil must not be a mixture of contrasting textures and must contain less than 5 percent by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2 inches in diameter.

b. Topsoil must be free of noxious plants or plant parts such as Bermuda grass, quack grass, Johnson grass, nut sedge, poison ivy, yarrow, or others as specified.

c. Topsoil substitutes or amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority, may be used in lieu of natural topsoil.

d. Topsoil Application

a. Erosion and sediment control practices must be maintained when applying topsoil.

b. Uniformly distribute topsoil in a 5 to 8 inch layer and lightly compact to a minimum thickness of 4 inches. Spreading is to be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and ridges. Any irregularities in the surface resulting from topsoiling or other operations must be corrected in order to prevent the formation of depressions or water pockets.

c. Topsoil must not be placed if the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

C. Soil Amendments (Fertilizer and Lime Specifications)

1. Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas of 5 acres or more. Soil analysis may be performed by a recognized private or commercial laboratory. Soil samples taken for engineering purposes may also be used for chemical analyses.

2. Fertilizers must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Fertilizer must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Fertilizer must be uniform in composition, free flowing and suitable for accurate application by appropriate equipment. Fertilizers must all be delivered to the site fully labeled according to the applicable laws and must bear the name, trade name or trademark and warranty of the producer.

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

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

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

TEMPORARY SEEDING NOTES (B-4-4)

Definition

To stabilize disturbed soils with vegetation for up to 6 months.

Purpose

To use fast growing vegetation that provides cover on disturbed soils.

Conditions Where Practice Applies

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

Criteria

1. Select one or more of the species or seed mixtures listed in Table B.1 for the appropriate Plant Hardiness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths. If this Summary is not put on the plan and completed, then Table B.1 plus fertilizer and lime rates must be put on the plan.

2. For sites having soil tests performed, use and show the recommended rates by the testing agency. Soil tests are not required for Temporary Seeding.

3. When stabilization is required outside of a seeding season, apply seed and mulch or straw mulch alone as prescribed in Section B-4-3.1.b and maintain until the next seeding season.

Temporary Seeding Summary					
Hardiness Zone (from Figure B.3):		Seed Mixture (from Table B.1):		Fertilizer Rate (10-20-20)	
Species	Application Rate (lb/acre)	Seeding Dates	Seeding Depth		
BARLEY	96	3/1 - 5/15	1"	436 lb/ac (10 lb/1000 sf)	2 tons/ac (50 lb/1000 sf)
OATS	72	8/15 - 10/15	1"		
RYE	112		1"		

PERMANENT SEEDING NOTES (B-4-5)

A. Seed Mixtures

1. General Use

a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardiness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.3. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding Summary. The Summary is to be placed on the plan.

b. Additional planting specifications for exceptional sites such as shorelines, stream banks, or dunes or for special purposes such as wildlife or aesthetic treatment may be found in USDA-NRCS Technical Field Office Guide, Section 345 - Critical Area Planning - Critical Area Planting.

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

2. Turfgrass Mixtures

a. Areas where turfgrasses may be desired include lawns, parks, playgrounds, and commercial sites which will require a medium to high level of maintenance.

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

i. Kentucky Bluegrass: Full Sun Mixture: For use in areas that receive intensive management, irrigation required in the areas of central Maryland and Eastern Shore. Recommended Certified Kentucky Bluegrass Cultivars Seeding Rate: 15 to 20 pounds per 1000 square feet. Choose a minimum of three Kentucky bluegrass cultivars with each ranging from 10 to 35 percent of the total mixture by weight.

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

iii. Tall Fescue/Kentucky Bluegrass: Full Sun Mixture: For use in drought prone areas and/or for areas receiving low to medium management in full sun to medium shade. Recommended mixture includes: Certified Tall Fescue Cultivars 95 to 100 percent, Certified Kentucky Bluegrass Cultivars 0 to 5 percent. Seeding Rate: 5 to 8 pounds per 1000 square feet. One or more cultivars may be blended.

iv. Kentucky Bluegrass/Fine Fescue: Shade Mixture: For use in areas with shade in Bluegrass lawns. For establishment in high quality, intensively managed turf area. Mixture includes: Certified Kentucky Bluegrass Cultivars 30 to 40 percent and Certified Fine Fescue and 60 to 70 percent. Seeding Rate: 1 1/2 to 3 pounds per 1000 square feet.

Notes

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

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

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

d. Till areas to receive seed by disking or other approved methods to a depth of 2 to 4 inches, level and rake the areas to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will pose no difficulty.

e. If soil moisture is deficient, supply new seedlings with adequate water for plant growth (1/2 to 1 inch every 3 to 4 days depending on soil texture) until they are firmly established. This is especially true when seedlings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

PERMANENT SEEDING SUMMARY

Hardiness Zone (from Figure B.3):	6b	Fertilizer Rate (10-20-20)	Lime Rate				
Seed Mixture (from Table B.3):	Seeding Dates	Seeding Depth	N	P ₂ O ₅	K ₂ O		
No. Species	Application Rate (lb/acre)						
B	TALL FESCUE	100	Mar. 1-May 15 Aug. 15-Oct. 15	1/4"-1/2" (2 lb/1000 sf)	45 lb/acre (10 lb/1000 sf)	90 lb/acre (20 lb/1000 sf)	2 tons/ac (50 lb/1000 sf)

DETAIL B-4-6-C PERMANENT SOIL STABILIZATION MATTING CHANNEL APPLICATION

6 IN MIN. OVERLAP AT ROLL END (TYP.)

6 IN MIN. OVERLAP AT ROLL END (TYP.)

6 IN DEEP (MIN.) KEEP TRENCH FOR UPPER END OF DOWN-SLOPE ROLL. (TYP.)

KEY IN UPPER ROLL END

IF SPECIFIED (SEE NOTE 9)

ISOMETRIC VIEW

CONSTRUCTION SPECIFICATIONS

1. USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DISSEMINATED ON APPROVED PLANS.

2. USE PERMANENT SOIL STABILIZATION MATTING MADE OF OPEN WEAVE SYNTHETIC, NON-DEGRADABLE FIBERS OR ELEMENTS OF UNIFORM THICKNESS AND DISTRIBUTION THROUGHOUT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTENDED PLASTIC WITH A MAXIMUM TENSILE STRENGTH OF 200 LBS PER INCH AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXES OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.

3. SECURE MATTING USING STEEL STAPLES OR WOOD STAPLES. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE MINIMUM 8 INCH WIDE LEGS, A MINIMUM 1 INCH SECONDARY LEG, AND MINIMUM 4 INCH HEAD. WOOD STAPLES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1 1/2 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.

4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDING PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS, PLACING MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS. SEEDING END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

5. UNROLL MATTING IN DIRECTION OF WATER FLOW, CENTERING THE FIRST ROLL ON THE CHANNEL CENTER LINE. WORK FROM CENTER OF CHANNEL OUTWARD WHEN PLACING ROLLS. LAY MATTING SMOOTHLY AND FIRMLY UPON THE SECOND SURFACE. AVOID STRETCHING THE MATTING.

6. OVERLAP OR ABUT EDGES OF MATTING ROLLS PER MANUFACTURER'S RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSTREAM MAT OVERLAPPING ON TOP OF THE NEXT DOWNSTREAM MAT.

7. KEY IN THE TOP OF SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.

8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON A FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.

9. IF SPECIFIED BY THE DESIGNER OR MANUFACTURER AND DEPENDING ON THE TYPE OF MAT BEING INSTALLED, OBTAIN THE MATTING IS COVERED AND STAPLED IN PLACE, FILL THE MAT VOIDS WITH TOP SOIL OR GRANULAR MATERIAL, AND LOOSELY COMPACT OR ROLL TO IMPROVE SOIL-MAT CONTACT WITHOUT CRUSHING MAT.

10. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

ENGINEER'S CERTIFICATE

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

Signature of Engineer: *[Signature]* Date: *8-12-15*

DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Sediment and Erosion Control Training Program before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: *[Signature]* Date: *8-12-15*

Professional Certification

"Professional Certification. I certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20748, Expiration Date: 12/31/2022."

Signature: *[Signature]* Date: *8/12/15*

ALDO M. VIGORELLI, P.E.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

Signature: *[Signature]* Date: *8/31/15*

Howard SCD

DETAIL E-1 SILT FENCE

6 FT MAX. CENTER TO CENTER

36 IN MIN. FENCE POST LENGTH DRIVEN MIN. 16 IN INTO GROUND

16 IN MIN. HEIGHT OF WOVEN SILT FENCE FILM GEOTEXTILE

8 IN MIN. DEPTH INTO GROUND

ELEVATION

CROSS SECTION

MIN. OF 8 IN VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF GEOTEXTILE.

STEP 1

STEP 2

STEP 3

JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1/4" X 1/4" X 1/4" INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.

2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.

3. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.

4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.

6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN, OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.

7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.

8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL			
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SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT. (1 DAY)
- NOTIFY MASS UTILITY (1-800-257-7777) 48 HOURS BEFORE STARTING WORK. NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1855) 24 HOURS BEFORE STARTING WORK, AND NOTIFY THE BALTIMORE GAS ELECTRIC CO. (410-291-5739) FIVE (5) WORKING DAYS PRIOR TO STARTING WORK. (1 WEEK)
- CLEAR AND GRUB FOR SEDIMENT CONTROL MEASURES ONLY. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SUPER SILT FENCE & CLEAN WATER DIVERSION EARTH DIKE. (1 DAY)
- BEGIN GRADING OF PARKING AREAS. (2 WEEKS)
- INSTALL TAP & CHIP PAVING. (1 WEEK)
- INSTALL ROOF LEADER SYSTEM AND ASSOCIATED CLEANOUTS CO-1 THRU CO-4. INSTALL UNDERGROUND CISTERN FOR RAIN WATER HARVESTING AND CONNECT THE ROOF LEADER SYSTEM TO THE CISTERN. INSTALL STORM DRAIN SYSTEM FROM BIO-RETENTION FACILITY #1 FROM THE OUTFALL AT S-1 THRU CO-8. GRADE IN THE PROPOSED SWALE & STABILIZE THE AREA WITH PERMANENT SEEDING (6 WEEKS)
- INSTALL SIDEWALKS. (1 WEEK)
- INSTALL MICRO BIO-RETENTION FACILITIES #1, #2 AND #3 AND ASSOCIATED UNDERDRAIN SYSTEMS INCLUDING CLEANOUTS CO-9 AND CO-10 THRU 13. IN ADDITION INSTALL THE PROPOSED OBSERVATION WELLS FOR ALL 3 BIO-RETENTION FACILITIES. (2 WEEKS)
- STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS. (1 DAY)
- WITH APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS, FINE GRADE ALL DISTURBED AREAS AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS. (1 WEEK)

EROSION AND SEDIMENT CONTROL NOTE:

THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON ALL SEDIMENT CONTROL DEVICES/PRACTICES ON A DAILY BASIS, AND IMMEDIATELY AFTER EACH RAINFALL.

DETAIL E-3 SUPER SILT FENCE

10 FT MAX.

34 IN MIN.

36 IN MIN.

GROUND SURFACE

2 1/2 IN DIAMETER GALVANIZED STEEL OR ALUMINUM POSTS

CHAIN LINK FENCING

WOVEN SILT FILM GEOTEXTILE

EMBED GEOTEXTILE AND CHAIN LINK FENCE 8 IN MIN. INTO GROUND

ELEVATION

CROSS SECTION

CONSTRUCTION SPECIFICATIONS

1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.

2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS.

3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 4 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASSES.

5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

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DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

50 FT MIN.

8 FT MIN.

3 FT MIN.

EXISTING PAVEMENT

EXISTING PAVEMENT

NONWOVEN GEOTEXTILE

MIN. 6 IN OF 2 TO 3 IN AGGREGATE OVER LENGTH AND WIDTH OF ENTRANCE

50 FT MIN. LENGTH

10 FT MIN. WIDTH

PIPE (SEE NOTE 6)

EDGE OF EXISTING PAVEMENT

PLAN VIEW

CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (+30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. PLACE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 2:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH POINT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADDED STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ON ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (+30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. PLACE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 2:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH POINT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.

4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADDED STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ON ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

STANDARD STABILIZATION NOTE

FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

a) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DICES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1; AND

b) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

0' 20' 40' 60'

SCALE: 1" = 20'

DETAIL C-1 EARTH DIKE

2:1 SLOPE OR FLATTER

EXISTING GROUND

CROSS SECTION

DIKE TYPE

18 IN MIN. DIKE WIDTH

24 IN MIN. DIKE WIDTH

36 IN MIN. DIKE WIDTH

4 FT MIN. FLOW WIDTH

6 FT MIN. FLOW WIDTH

12 IN MIN. DIKE DEPTH

24 IN MIN. DIKE DEPTH

FLOW CHANNEL STABILIZATION

A-1 OVERSEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.)

A-2/B-2 SEED WITH SOIL STABILIZATION MATTING OR LIME WITH SOD.

A-3/B-3 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL. A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND.

CONSTRUCTION SPECIFICATIONS

1. REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBSTRUCTIONABLE MATERIAL. SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE.

2. EXCAVATE OR SHAVE EARTH DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROTECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED.

3. COMPACT FILL.

4. CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN PROPOSED GRADE.

5. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN.

6. STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION.

7. MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

8. UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN.

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B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

Definition

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

Purpose

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

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to minimize and store soil for later use.

Criteria

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.

2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Batching must be provided in accordance with Section B-3 Land Grading.

3. Runoff from the stockpile area must drain to a suitable sediment control practice.

4. Access the stockpile area from the updrift side.

5. Clear water runoff from the stockpile must be minimized by use of a diversion device such as an earth dike, temporary wall or diversion fence. Provisions must be made for discharging concentrated flow in a non-erodible material.

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

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

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained or no steeper than a 2:1 slope. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, batching must be provided in accordance with Section B-5 Land Grading.

HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. FOR PERMANENT SEEDING (SEC. B-4-4), TEMPORARY SEEDING (SEC. B-4-4-1) AND MULCHING (SEC. B-4-3), TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL AREA OF SITE 135.4 ACRES
AREA DISTURBED 2.10 ACRES
AREA TO BE ROOFED OR PAVED 0.16 ACRES
AREA TO BE VEGETATIVELY STABILIZED 1.94 ACRES
TOTAL CUT 8,584 CU.YDS.
TOTAL FILL 4,729 CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION N/A
- ANY SEDIMENT CONTROL PRACTICE THAT IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
- APPROVAL BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.
- APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
- ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.
- A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 ACRE PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.

SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

HOWARD COUNTY LIVING FARM HERITAGE MUSEUM

KNOWN AS WEST FRIENDSHIP PARK PARKING LOT ADDITION

TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: MAY 12, 2019

SHEET 4 OF 7 SDP-14-079

FISHER, COLLINS & CARTER, INC.

CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461 - 2099

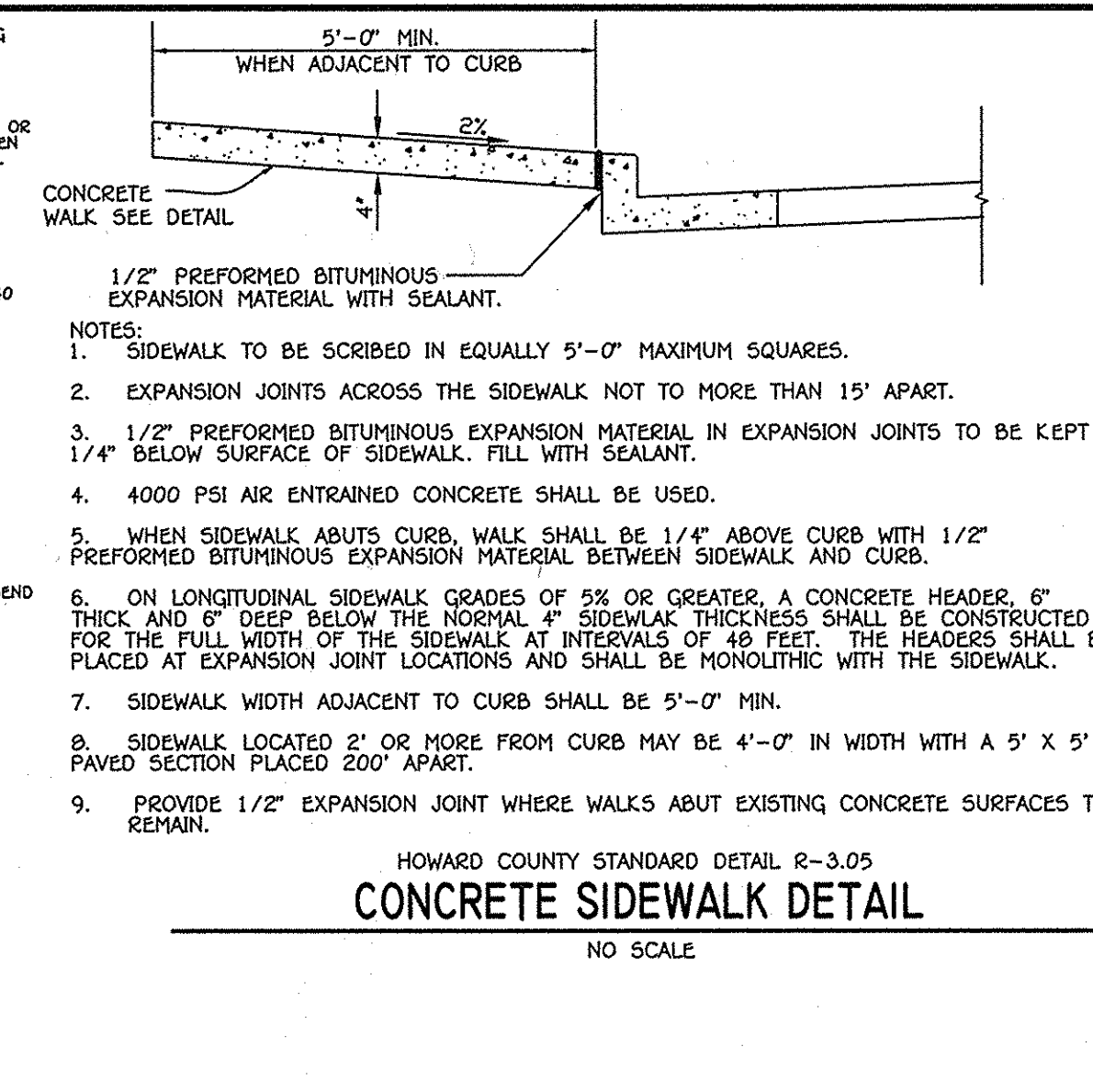
"I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Signature of Engineer: *[Signature]* Date: *8-12-15*

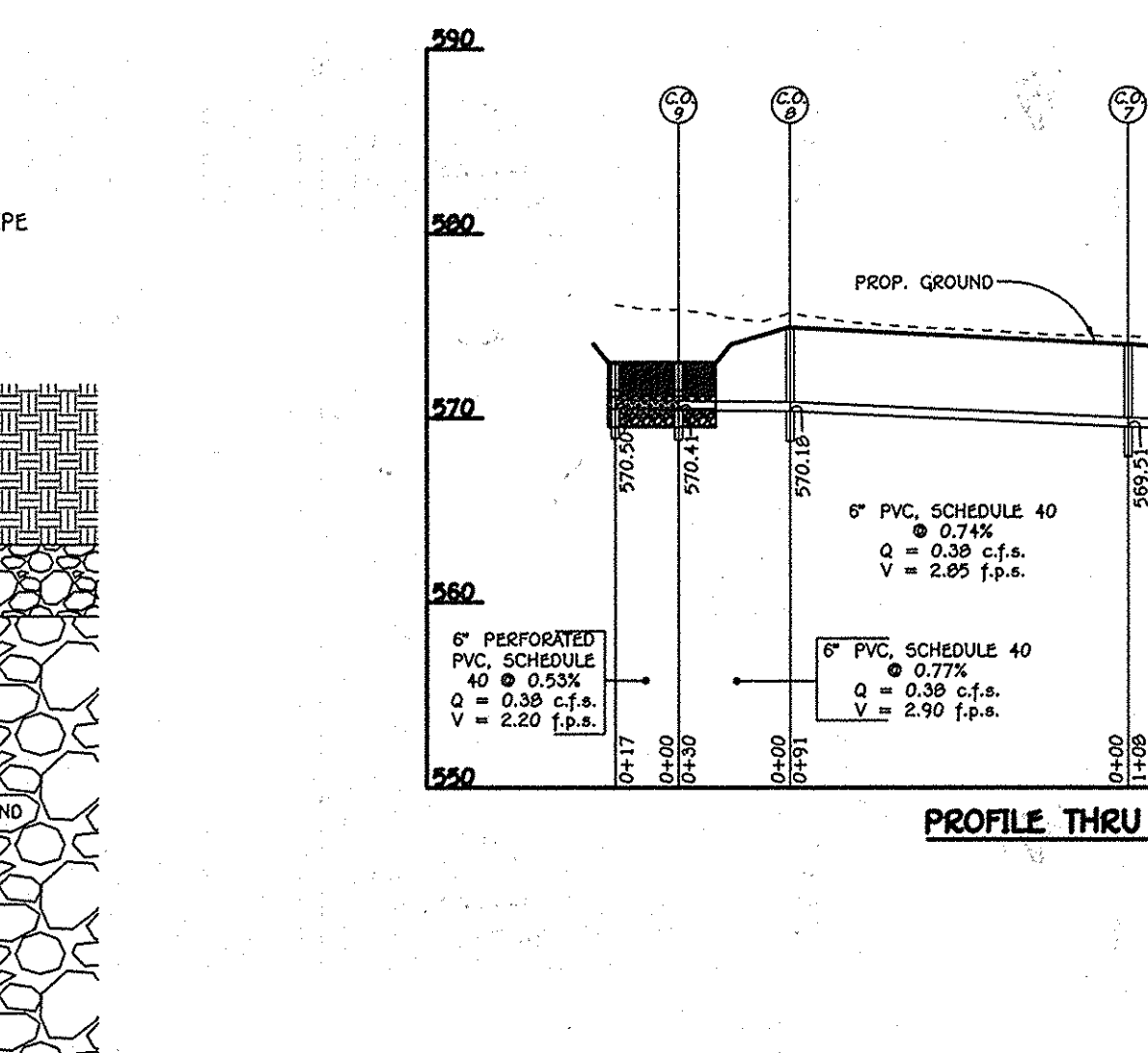
DEVELOPER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Sediment and Erosion Control Training Program before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

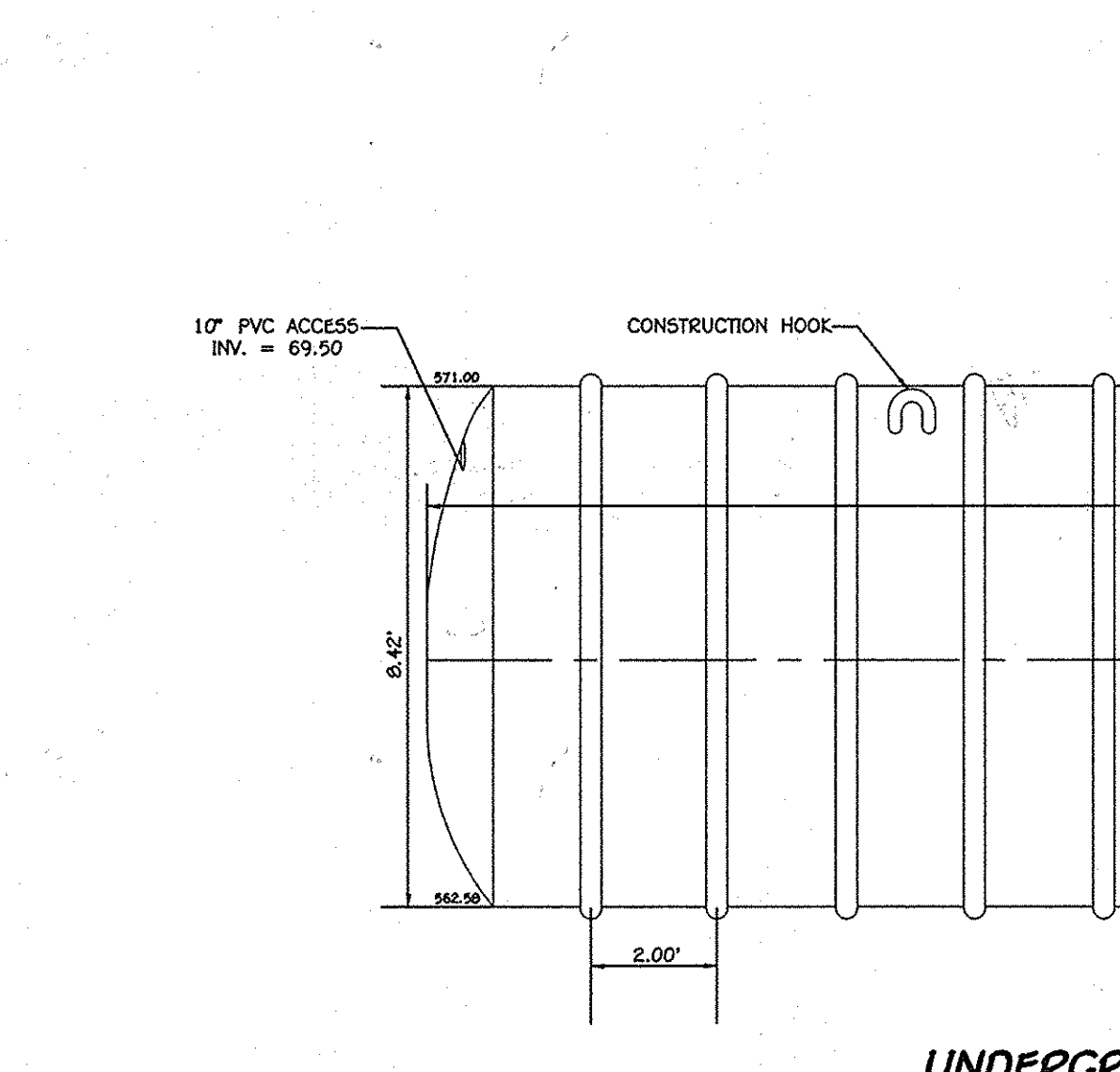
Signature of Developer: *[Signature]* Date: *8-12-15*



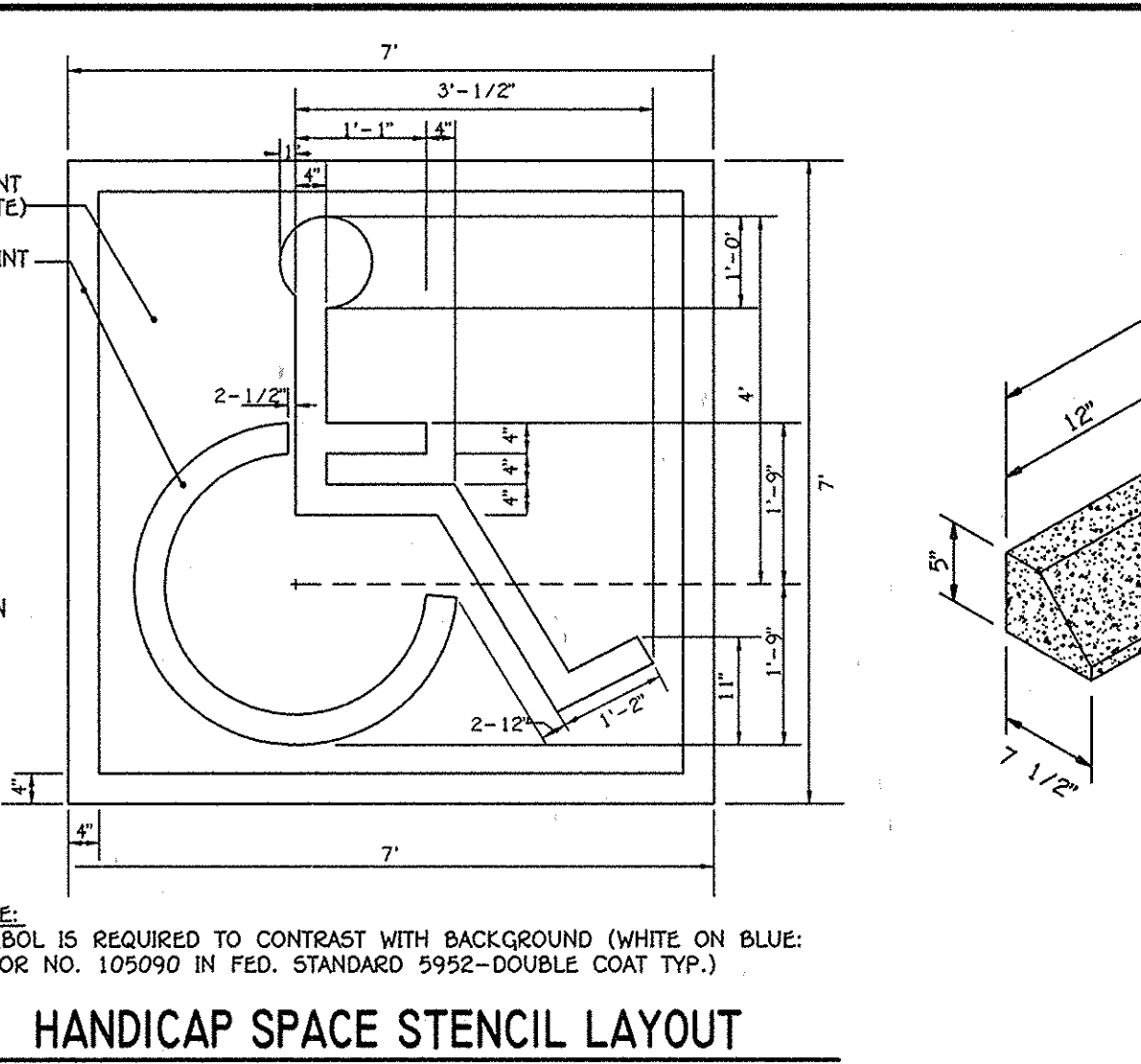
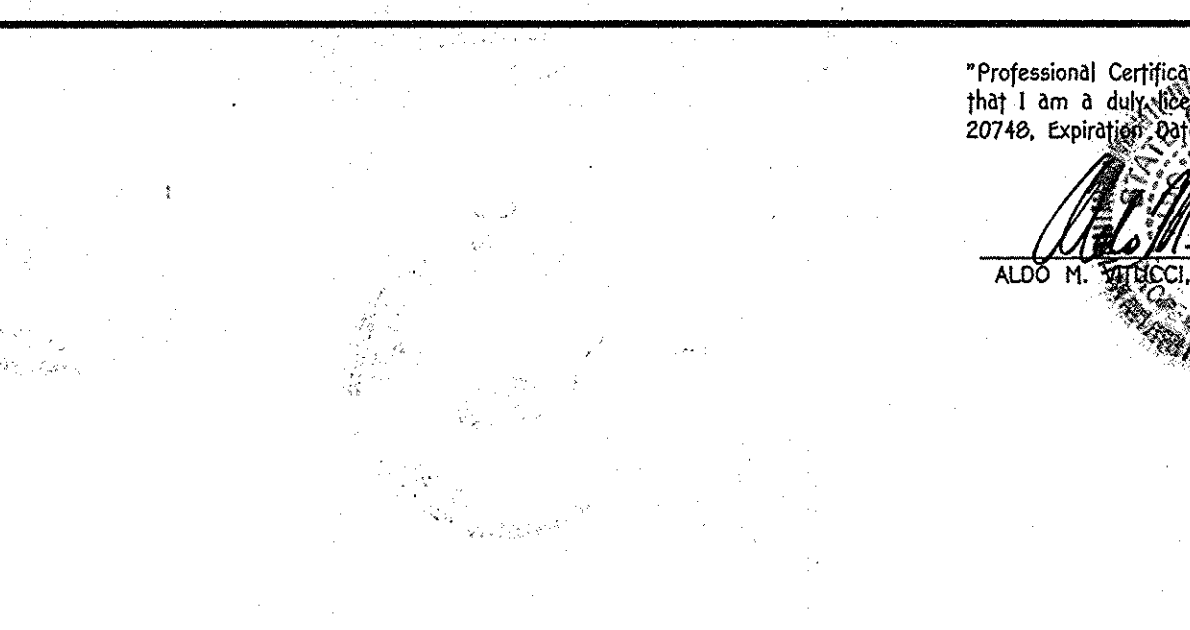
NO SCALE



NO SCALE



SCALE: 1" = 50' HOR.





WHEEL STOP DETAIL

1'-10"

1'-0"

3/8"

3/4"

1/8"

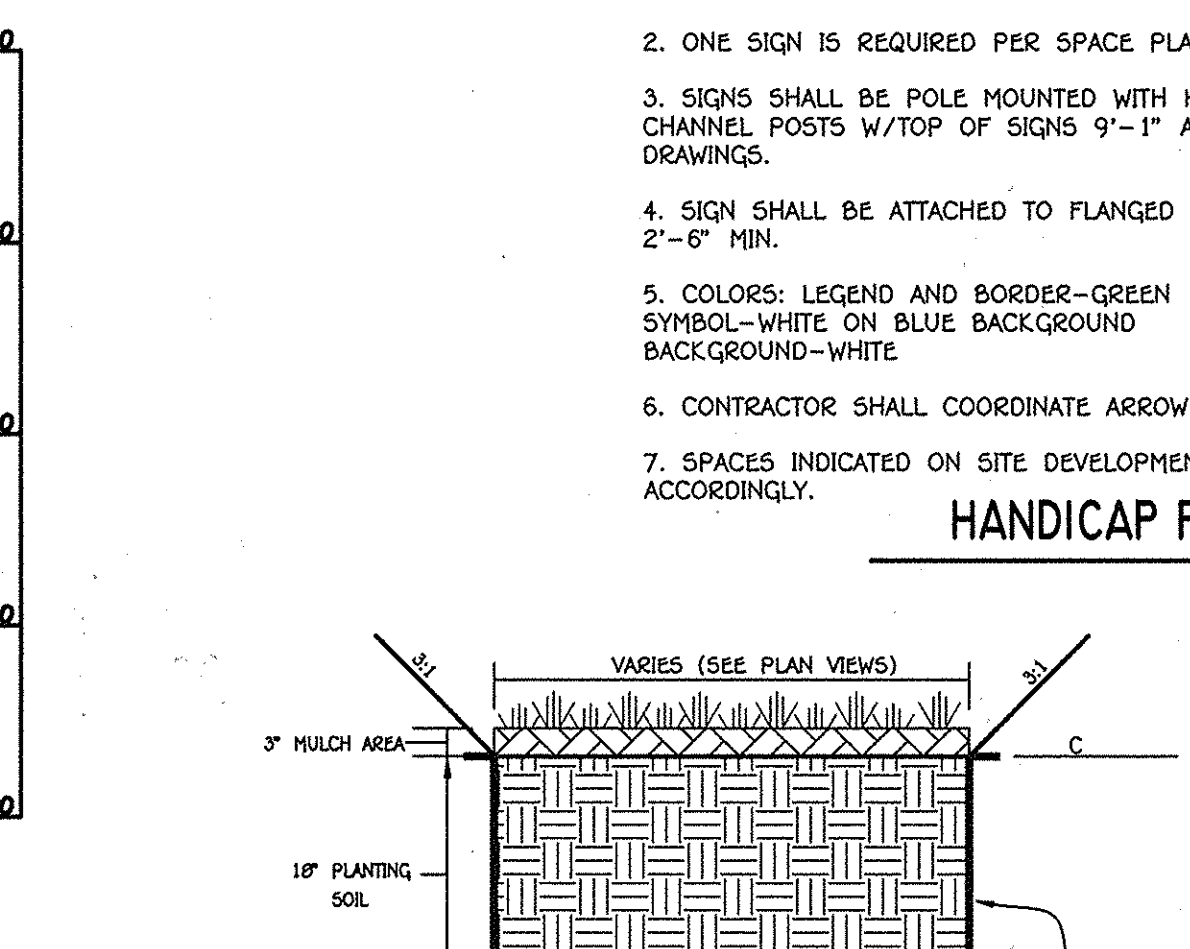
3/8"

1'-0"

3/8"

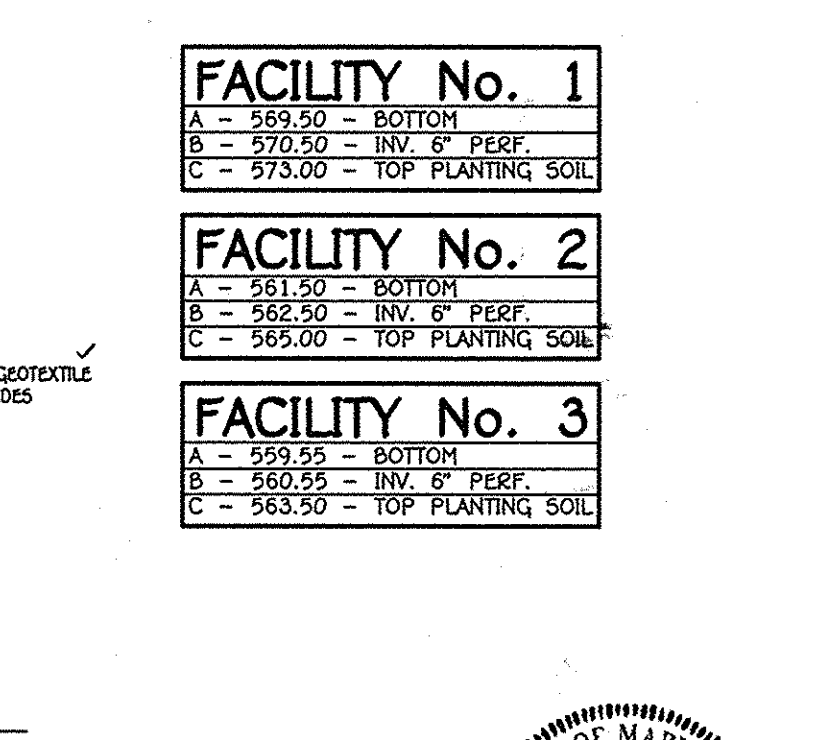
**PARKING
IN
ACCESS
AISLE**

GENERAL NOTES:

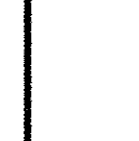


1. The owner shall maintain the plant material, mulch layer and soil layer annually. maintain

-
- 12" NO. 2
WASHED STONE
FOR 2' DEEP
- 6" PERFORATED PIPE/GRAVEL
UNDERDRAIN SYSTEM (WRAP THE
PERF. PIPE W/ 1/2" MESH (4 x
4) OR SMALLER GALVANIZED
HARDWARE CLOTH.
- NOTE: PERFORATIONS SHOULD
BE 3/4" DIAMETER LOCATED 5"
OF
CENTER WITH A MINIMUM OF
FOUR HOLES PER ROW.
- (FACILITY Nos. 1, 2 & 3)
MICRO BIO-RETENTION (M-6) SECTION



NO SCALE



DATE	DESCRIPTION
	REVISION BLOCK
APPROVED: DEPARTMENT OF PLANNING AND ZONING	

10-12-15

Date 10-13-15

Date
10.1.15

Address Chart	
BUILDING NO.	STREET ADDRESS
	12905 FREDERICK ROAD
	WEST FRIENDSHIP, MARYLAND 21794

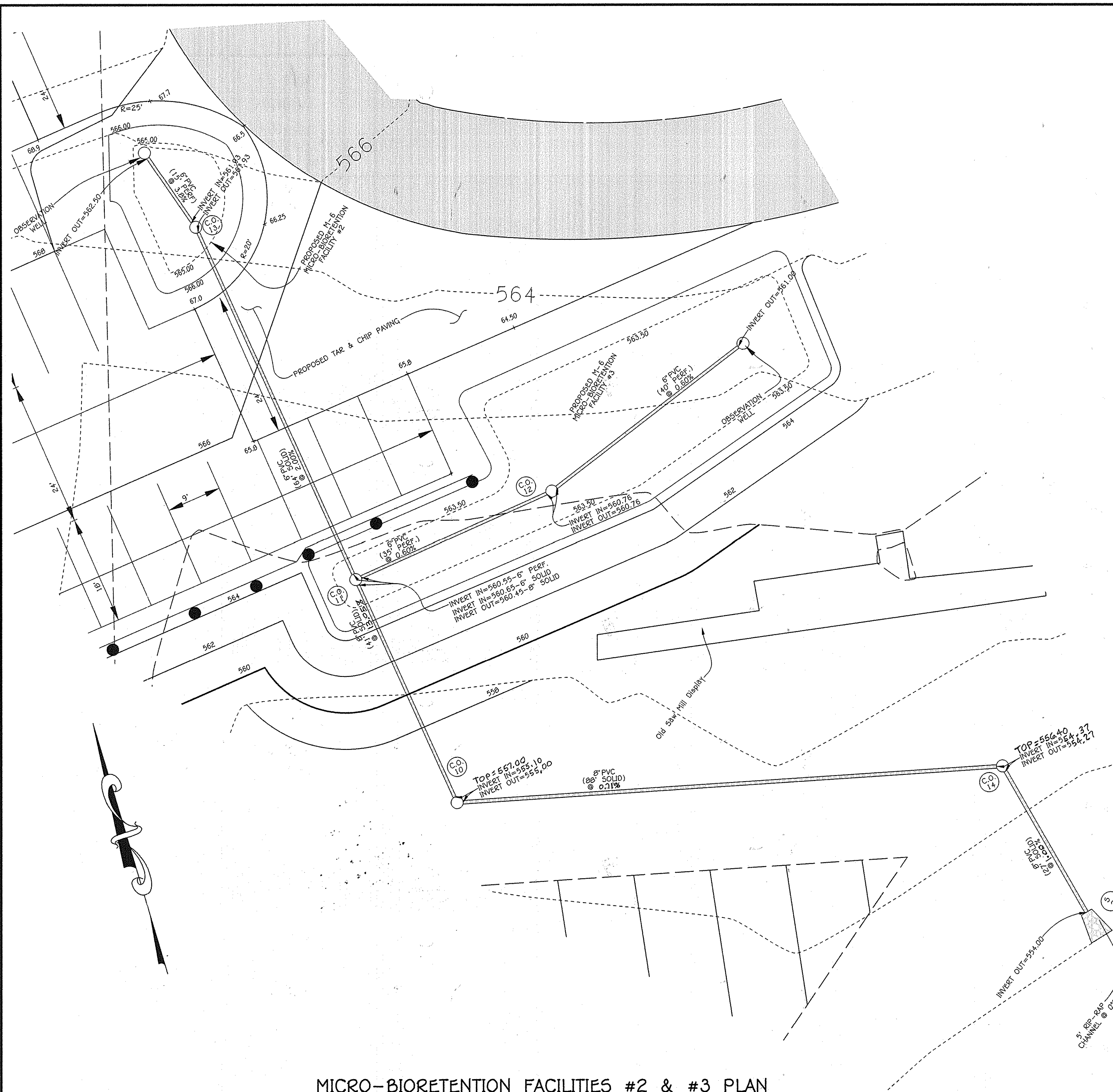
PROJECT HOWARD COUNTY LIVING FARM HERITAGE MUSEUM		SECTION/AREA -		PARCELS 142		LOT -	
DEED REF.	BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR		
L.635, F.331	9,10,15,16	RC-DEO	15	THIRD	6030		

DETAIL SHEET

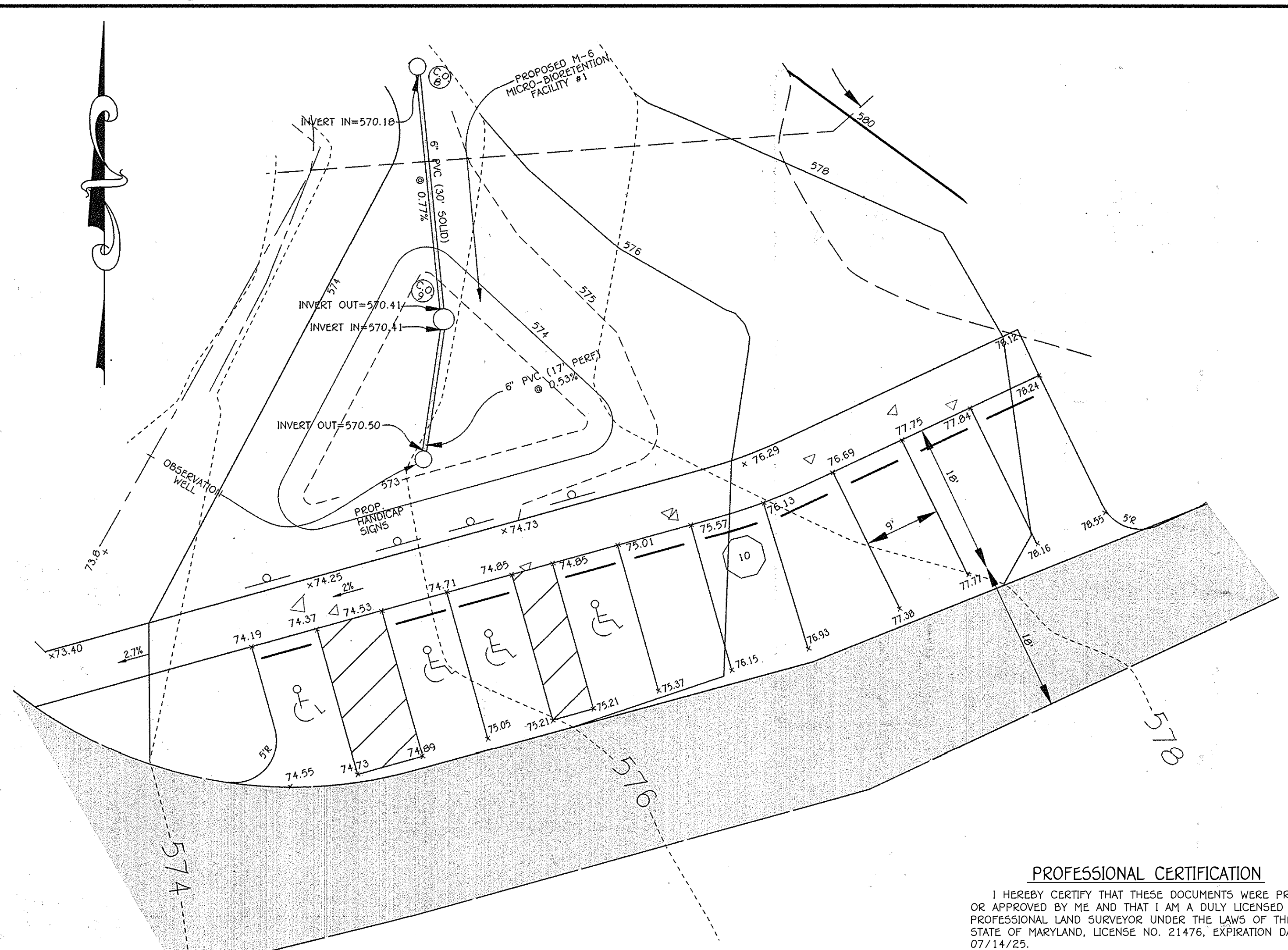
HOWARD COUNTY LIVING FARM
HERITAGE MUSEUM
KNOWN AS WEST FRIENDSHIP PARK

KNOWN AS WEST FRIENDSHIP PARK
PARKING LOT ADDITION
TAX MAP No. 15 GRID No. 9, 10, 15, AND 16
PARCEL 142
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: MAY 13, 2015

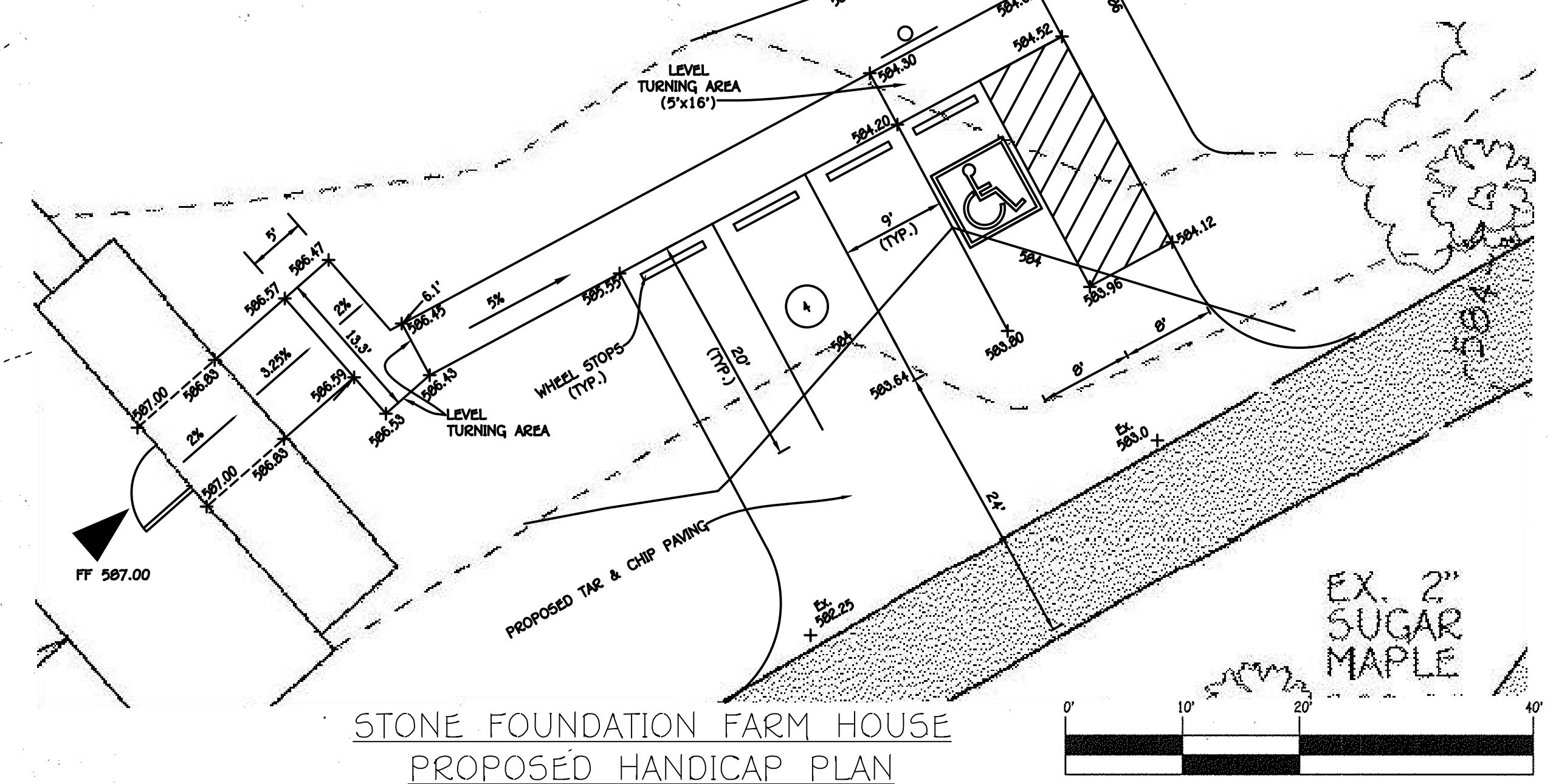
1



MICRO-BIORETENTION FACILITIES #2 & #3 PLAN
SCALE: 1" = 10'

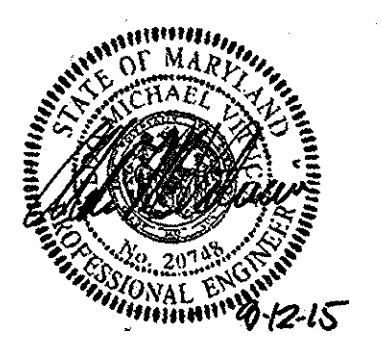


MICRO-BIORETENTION FACILITY #1 PLAN - HANDICAP PLAN
SCALE: 1" = 10'



STONE FOUNDATION FARM HOUSE
PROPOSED HANDICAP PLAN
SCALE: 1" = 10'

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 07/14/25.
Frank Mandalusan II
9/23/2024
DATE



FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELLSWORTH CITY, MARYLAND 21042 (410) 461-2200	ENGINEER'S CERTIFICATE "I certify that this plan for sediment and erosion control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." Signature of Engineer: <i>[Signature]</i> Date: 9-12-15	Professional Certificate "I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20748, Expiration Date: March 22, 2015." Signature: <i>[Signature]</i> Date: 9-12-15	8/20/2024 ADD ADA RAMP AND 8 PARKING SPACES. REVISION BLOCK APPROVED: DEPARTMENT OF PLANNING AND ZONING Director - Department of Planning and Zoning: <i>[Signature]</i> 10-13-15 Date: 10-13-15 Chief, Division of Land Development: <i>[Signature]</i> 10-8-15 Date: 10-8-15	OWNER HOWARD COUNTY RECREATION AND PARKS C/O MR. JOHN R. BYRD, DIRECTOR 7120 OAKLAND MILLS ROAD COLUMBIA, MARYLAND 21046-1677 PHONE: (410) 313-4640	DEVELOPER HOWARD COUNTY LIVING FARM HERITAGE MUSEUM C/O MR. JOHN FRANK 12905 ROUTE 144 WEST FRIENDSHIP, MARYLAND 21794 PHONE: (410) 489-2345	Address Chart BUILDING NO. STREET ADDRESS 12905 FREDERICK ROAD WEST FRIENDSHIP, MARYLAND 21794 PROJECT: HOWARD COUNTY LIVING FARM HERITAGE MUSEUM SECTION/AREA: 142 PARCELS: 142 LOT: - DEED REF. L.635, F.331 BLOCK NO. 9,10,15,16 ZONE RC-DEO TAX MAP 15 ELEC. DIST. THIRD CENSUS TR. 6030'	SWM DETAILS REVISED HOWARD COUNTY LIVING FARM HERITAGE MUSEUM KNOWN AS WEST FRIENDSHIP PARK PARKING LOT ADDITION TAX MAP No. 15 GRID No. 9, 10, 15, AND 16 PARCEL 142 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: MAY 13, 2015 SHEET 6 OF 7 SDP-14-079
	DEVELOPER'S CERTIFICATE "I/we certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District." Signature of Developer: <i>[Signature]</i> Date: 8-12-15	This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT. Signature: <i>[Signature]</i> Date: 8-13-15					

PROJECT: HOWARD COUNTY LIVING FARM HERITAGE MUSEUM
DATE: FEBRUARY 25, 2015

NET TRACT AREA	ACRES
A. TOTAL TRACT AREA	2.1
B. DEDUCTIONS (AREA WITHIN 100 YEAR FLOODPLAIN)	0.0
C. AREA TO REMAIN IN AGRICULTURAL PRODUCTION	0.0
D. NET TRACT AREA	2.10
LAND USE CATEGORY: MEDIUM DENSITY RESIDENTIAL	
E. AFFORESTATION THRESHOLD (NET TRACT AREA [D] x 15%)	0.32
F. CONSERVATION THRESHOLD (NET TRACT AREA [D] x 20%)	0.42
EXISTING FOREST COVER	
G. EXISTING FOREST COVER WITHIN THE NET TRACT AREA	0
H. AREA OF FOREST ABOVE AFFORESTATION THRESHOLD	0
I. AREA OF FOREST ABOVE CONSERVATION THRESHOLD	0
BREAK-EVEN POINT	
J. FOREST RETENTION ABOVE THRESHOLD WITH NO MITIGATION	0
BREAK-EVEN POINT	
K. CLEARING PERMITTED WITHOUT MITIGATION	0
PROPOSED FOREST CLEARING	
L. TOTAL AREA OF FOREST TO BE CLEARED OR RETAINED OUTSIDE FCE	0
M. TOTAL AREA OF FOREST TO BE RETAINED	0
PLANTING REQUIREMENTS	
N. REFORESTATION FOR CLEARING ABOVE THE CONSERVATION THRESHOLD	0
P. REFORESTATION FOR CLEARING BELOW THE CONSERVATION THRESHOLD	0
Q. CREDIT FOR RETENTION ABOVE THE CONSERVATION THRESHOLD	0
R. TOTAL REFORESTATION REQUIRED	0
S. TOTAL AFFORESTATION REQUIRED	0.32
T. TOTAL PLANTING REQUIREMENT	0.32

8. Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the FCS boundary, whichever is greater.
9. No clearing, grading, construction, or disturbance of vegetation in the forest conservation easement, except as permitted by Howard County.
10. No clearing, grading, construction, or disturbance of vegetation within areas designated as forest conservation easements.
11. Where necessary, measures will be used to protect forest resources during construction. Fencing shall be installed within the limits of a disturbance occurring within 50 feet of the proposed FCS line. Permanent signage will be posted at 50-100 foot intervals along all FCS limits, as shown herein.
12. The applicant agrees to provide a detailed map showing the location of the proposed FCS and the net tract area of the site, for forest conservation calculation purposes.
13. The applicant agrees to comply with the requirements of Section 16.10.002 of the Howard County Code and Forest Act. No clearing, grading or construction is permitted within the forest conservation easement; however, forest management practices as defined in the Deed of Forest Conservation Easement may be performed within the forest conservation easement, subject to approval by the retention of 0.64 acres located on the West Friendship Park site outside of the proposed limit of disturbance.
14. Since the forest conservation easement is on County Parkland, the forest conservation easement shall be recorded via a Grant of Easement from DPHL Real Estate Services (instead of a formal record plat).



FOREST CONSERVATION EASEMENT		
POINT #	NORTH	EAST
1	595,483.94	1,320,509.37
2	595,637.00	1,320,022.61

15" MINIMUM

**FOREST
RETENTION
AREA**

**MACHINERY, DUMPING
OR STORAGE OF
ANY MATERIALS IS
PROHIBITED**

VIOLATORS ARE SUBJECT TO
FINES AS IMPOSED BY THE
MARYLAND FOREST
CONSERVATION ACT OF
1991

11" MINIMUM

A. Forest Protection Techniques

1. Soil Protection Area (Critical Root Zone):

The soil protection area, or critical root zone, of a tree is that portion of the soil column where most of its roots may be found. The majority of roots responsible for water and nutrient uptake are located just below the soil surface. Temporary fencing shall be placed around the critical root zone of the forest in areas where the forest limits occur within 50 feet of the limits of disturbance.

- ## 2. Fencing and Signage:

Existing forest limits occurring within 50 feet of the limits of disturbance shall be protected using temporary protective fencing.

- ### 3. Pre-Construction Meeting:

Upon staking the limits of disturbance a pre-construction meeting shall be held between the developer, contractor and appropriate county inspector. The purpose of the meeting will be to verify that all sediment control is in order, and to notify the contractor of possible penalties for non-compliance with the FCP.

4. Storage facilities/Equipment Cleaning:

All equipment storage, parking, sanitary facilities, material stockpiling, etc. associated with the construction of the project will be restricted to those areas outside of the proposed forest conservation easement. Cleaning of equipment will be limited to area within the LOD of the proposed site. Wastewater resulting from equipment cleaning will be controlled to prevent runoff into environmentally sensitive areas.

- ### 5. Sequence of Construction:

The following timetable represents the proposed timetable for construction of the subject property. The items outlined in the forest conservation plan will be enacted within (2) years of plan approval:

- Install all signage and sediment control devices.
- Hold pre-construction meeting between developer, contractor and County inspector.
- Build access roads, install water and sewer, and construct improvements. Stabilize all disturbed areas according to.
- Remove sediment control.
- Hold post-construction meeting with County inspectors to assure compliance with FCP. Submit certification of retention.

6. Construction Monitoring:

A qualified professional designated by the developer, will monitor construction of the project to ensure that all activities are in compliance with the Forest Conservation Plan.

7. Education:

The developer will provide appropriate materials to property owners informing them of the location and purpose of the forest conservation easement. Materials may include site plans and information explaining the intent of the forest conservation law.

- ### 8. Forest Conservation Easements:

Easements are a legal means of providing permanent protection of forest, farmland and open space. In accordance with the criteria outlined in the Howard County Forest Conservation Manual, a forest conservation easement, via a Grant of Easement, will be prepared by DPW, Real Estate Services prior to commencement of construction activities.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2855

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

Signature of Engineer _____ Date 9.12.15

"I/We certify that all development and construction will be done according to this plan for sediment and erosion control, and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer: John Wesley Frank Date: 8-12-15

"Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 20740, Expiration Date: March 22, 2015."

[Signature] 9-12-15

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT.

John R. [Signature]
Howard SCD
8/31/15
Date

[illegible]

OWNER

HOWARD COUNTY RECREATION AND PARKS
C/O MR. JOHN R. BYRD, DIRECTOR
7120 OAKLAND MILLS ROAD
COLUMBIA, MARYLAND 21046-1677
PHONE: (410) 313-4640

DEVELOPER

OWARD COUNTY LIVING FARM HERITAGE MUSEUM
C/O MR. JOHN FRANK
12985 ROUTE 144
WEST FRIENDSHIP, MARYLAND 21794
PHONE: (410) 489-2345

Address Chart							
PROJECT NO.		STREET ADDRESS					
		12985 FREDERICK ROAD					
		WEST FRIENDSHIP, MARYLAND 21794					
PROJECT COUNTY		COUNTY LIVING FARM		SECTION/AREA		PARCELS	LOT
HOWARD				-		142	-
HERITAGE MUSEUM							
DEED REF.		BLOCK NO.	ZONE	TAX MAP	ELEC. DIST.	CENSUS TR.	
L.635, F.331		9,10,15,16	RC-DEO	15	THIRD	6030	
		-----			-----		

**HOWARD COUNTY LIVING FARM
HERITAGE MUSEUM
KNOWN AS WEST FRIENDSHIP PARK
PARKING LOT ADDITION**

TAX MAP No. 15 GRID No. 9, 10, 15, AND 16
PARCEL 142

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: MAY 13, 2015

SHEET 7 OF 7 SDP-14-079