

SHEET INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	DEMOLITION PLAN
3	SITE DEVELOPMENT PLAN
4	SEDIMENT AND EROSION CONTROL PLAN
5	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
6	SOILS AND STORMWATER DRAINAGE AREA MAP
7	LANDSCAPE PLAN
8	LANDSCAPE NOTES AND DETAILS
9	STORMWATER PROFILES
10	STORMWATER MANAGEMENT NOTES AND DETAILS

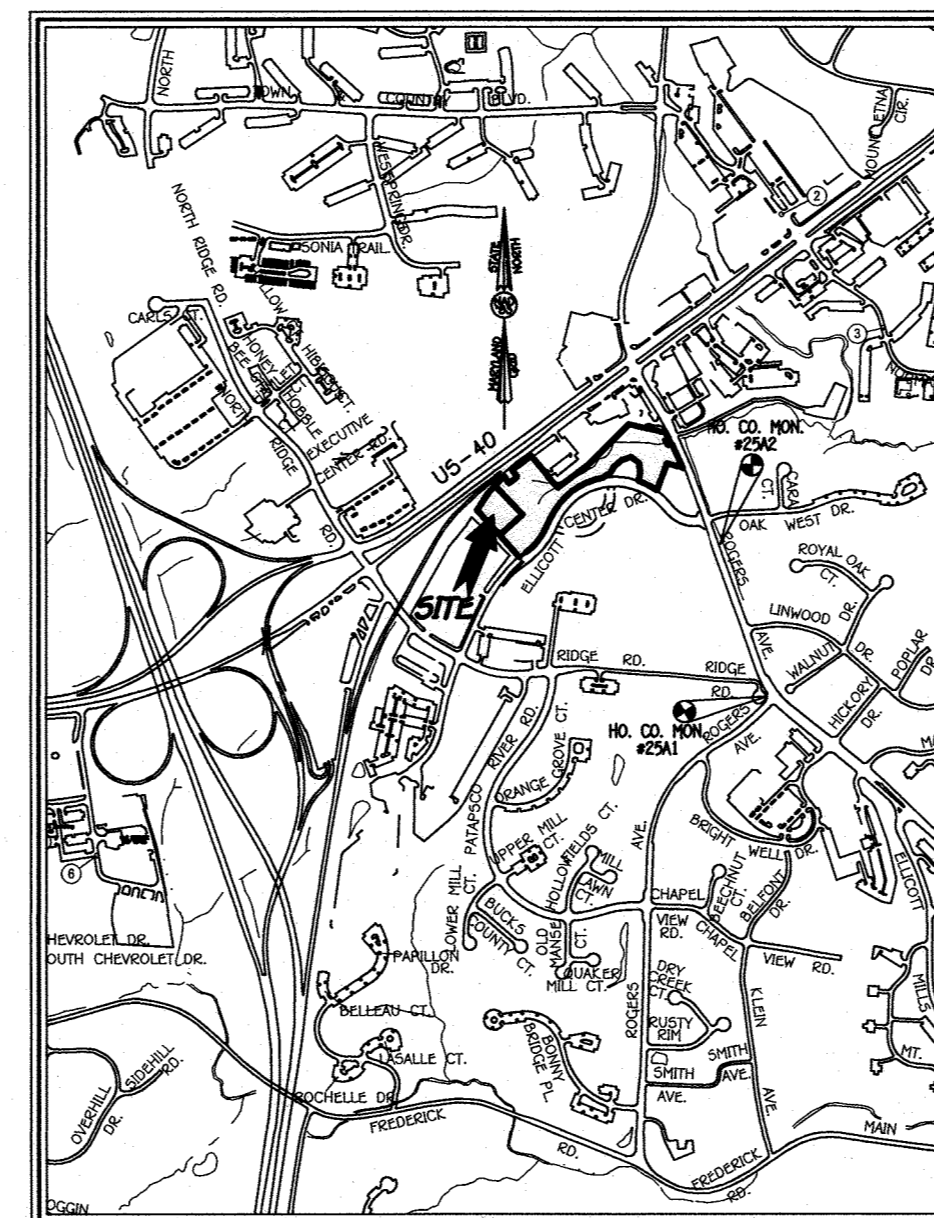
CAPITAL PROJECT C0317 CENTRAL FLEET VEHICLE STORAGE LOT

PARCELS 'A' AND 'E'
ZONING: POR-MXD-6 (PLANNED OFFICE RESEARCH) DISTRICT
TAX MAP No.: 24 GRID No.: 6 PARCEL No.: 852
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
A	3354 ELLICOTT CENTER DRIVE
E	3350 ELLICOTT CENTER DRIVE

GENERAL NOTES

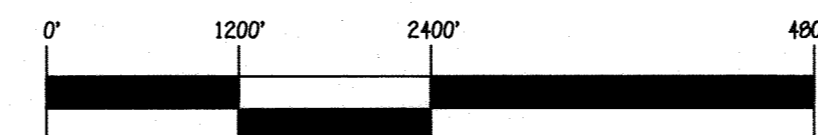
- THE SUBJECT PROPERTY IS POR-MXD-6 (PER 10/06/13 COMPREHENSIVE ZONING PLAN).
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTION DIVISION AT (410)313-1800 AT LEAST (5) FIVE WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THIS PROJECT IS SUBJECT TO HOWARD COUNTY FILES: F-03-021, SDP-03-026, ECP-11-052, ZB 1093M, WP-12-087, PB CASE NO. 391, F-12-014, S-12-001, & ECP-19-044.
- COORDINATES BASED ON NAD'83 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL.
STATIONS NO. 25A1 AND NO. 25A2:
HOWARD COUNTY MONUMENT NO. 25A1 N 966,557.503
E 1,366,847.149 ELEV. 396.349
HOWARD COUNTY MONUMENT NO. 25A2 N 987,502.680
E 1,366,566.401 ELEV. 348.098
- BOUNDARY IS BASED ON A FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS & CARTER ON OR ABOUT MARCH, 2011.
- CONTOURS ARE BASED ON A TOPOGRAPHIC FIELD RUN SURVEY PERFORMED BY FISHER, COLLINS & CARTER, ON OR ABOUT OCTOBER 23, 2010 AND SUPPLEMENTED WITH TOPOGRAPHY TAKEN FROM SDP-03-026 CREATED BY DAFT, MCCUNE, WALKER INC. AND APPROVED BY HOWARD COUNTY IN JULY 2003.
- STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. THIS PLAN PROPOSES THE USE OF ONE (1) M-6 MICRO-BIORETENTION FACILITY AND ONE (1) M-8 BIO SWALE. BOTH DEVICES WILL BE OWNED AND MAINTAINED BY HOWARD COUNTY.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 15.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FOREST CONSERVATION OBLIGATIONS HAVE BEEN PREVIOUSLY FULFILLED UNDER F-12-014.
- A GEOTECHNICAL LETTER WAS GENERATED ON FEBRUARY 20, 2019 DETAILING THE MONITORING AND TESTING SERVICES CONDUCTED FOR CONTROLLED FILL PROVIDED FROM APRIL 5 THROUGH AUGUST 24, 2012.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENT (JUNE 1993)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
- ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE) - 3' LONG. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- LIGHT TRESPASS ONTO A PROPERTY ZONED OR USED FOR RESIDENTIAL PURPOSES IS LIMITED TO 0.5 FOOT CANDLES. PARCEL 'E' IS OPEN SPACE LAND AND IS NOT BEING USED FOR RESIDENTIAL PURPOSES.
- EXCEPT FOR SPOTLIGHTS AND LOW INTENSITY LIGHTS AS DEFINED IN SECTION 134.0, C.2. AND 134.0, C.3., OF THE HOWARD COUNTY ZONING REGULATIONS, ALL LIGHT FIXTURES SHALL BE FULLY OR PARTIALLY SHIELDED.
- THE APFO/TRAFFIC STUDY WAS PREPARED BY THE TRAFFIC GROUP, INC. DATED FEBRUARY 17, 2011.
- WETLAND DELINEATION STUDY PREPARED BY DAFT-MCCUNE-WALKER, INC. AND DATED JUNE 12, 2001 AND APPROVED SEPTEMBER, 2001. WETLAND OUTLINE SHOWN ON PLAT NOS. 15067 THRU 15070.
- FLOODPLAIN SHOWN HEREON IS BASED ON A FLOODPLAIN STUDY PREPARED BY DAFT-MCCUNE-WALKER, INC. DATED JUNE 2002; REVISED OCTOBER 2002 AND APPROVED NOVEMBER 2002. FLOODPLAIN OUTLINE SHOWN ON PLAT NOS. 15067 THRU 15070.



VICINITY MAP

SCALE: 1" = 1200'

ADC MAP
MAP 21 GRID A7



SCALE: 1" = 1200'

SITE ANALYSIS DATA CHART

- PRESENT ZONING DESIGNATION = POR-MXD-6.
- TOTAL AREA OF THIS SUBMISSION = 7.263 AC.±
- LIMIT OF DISTURBED AREA = 1.69 AC.±
- PROPOSED USE: VEHICLE STORAGE.
PREVIOUS HOWARD COUNTY FILES: F-03-021, SDP-03-026, ECP-11-052, ZB 1093M, WP-12-087, PB CASE NO. 391, F-12-014, S-12-001 & ECP-19-044
- TOTAL AREA OF FLOODPLAIN LOCATED ON SITE 1.241 AC. (LOCATED ON PARCEL 'E' ONLY)
- TOTAL AREA OF SLOPES IN EXCESS OF 15% TO 25% = 0.90 AC.± (WITHIN L.O.D. = 0.00 AC.±)
- TOTAL AREA OF SLOPES IN EXCESS OF 25% = 2.34 AC.± (WITHIN L.O.D. = 0.54 AC.±)
- NET TRACT AREA = 7.263 AC. (TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES AREA) (7.263 AC. - (1.241 AC. + 0.90 AC.)) = 5.122 AC.±
- TOTAL AREA OF WETLANDS (INCLUDING BUFFER) LOCATED ON SITE = 1.185 AC.± (LOCATED ON PARCEL 'E' ONLY)
- TOTAL FOREST 2.782 AC.±
- TOTAL GREEN OPEN AREA = 6.62 AC.±
- TOTAL IMPERVIOUS AREA = 0.64 AC.±
- ERODIBLE SOILS = 4.37 AC.± (WITHIN L.O.D. = 0.54 AC.±)

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
-110-	PROPOSED CONTOUR 10' INTERVAL
-112-	PROPOSED CONTOUR 2' INTERVAL
x362.2	SPOT ELEVATION
---	SOILS
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	BIO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
---	DRAINAGE AREA
SB-	STREAM BUFFER
WB-	WETLAND BUFFER
FP-	FLOODPLAIN
---	EXISTING TREELINE
---	FOREST CONSERVATION EASEMENT

STORMWATER MANAGEMENT PRACTICES

AREA ID	LOCATION	DRAINAGE AREA	% IMPERVIOUS	ESDV REQUIRED Cuft.	ESDV PROVIDED Cuft.	DRY WELLS M-5 (Y/N)	MICRO-BIO-RETENTION M-6 (Y/N)	BIO SWALE M-8 (Y/N)	PERMEABLE A-2 (Y/N)
M-6(1)	PARCEL 'A'	37,538	67%	3,277	3,703		Y		
M-8(1)	PARCEL 'E'	5,360	97%	450	950			Y	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *[Signature]* 4/1/2020 Date
Chief, Development Engineering Division: *[Signature]* 3.30.20 Date
Director, Department of Planning and Zoning: *[Signature]* 4.3.2020 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 LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE, 7/14/21.

[Signature]
NAME: *[Name]* DATE: 2/10/20

OWNER/DEVELOPER

HOWARD COUNTY
3430 COURT HOUSE DRIVE
ELICOTT CITY, MARYLAND 21043
ATTN: MR. RICHARD LEE
410-313-7548

TITLE SHEET

CENTRAL FLEET
CAPITAL PROJECT C0317
VEHICLE STORAGE LOT
PARCELS 'A' AND 'E'
ZONED: POR-MXD-6

TAX MAP No.: 24 GRID No.: 6 PARCEL No.: 852
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 2020

SHEET 1 OF 10

SDP-19-062

PROJECT	SECTION	PARCEL No.			
CENTRAL FLEET		852			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	GENSUS TR.
21798-21803	6	POR-MXD-6	24	SECOND	6051.02
PREVIOUS HOWARD COUNTY FILES:					
F-03-021, SDP-03-026, ECP-11-052, ZB 1093M, WP-12-087, PB CASE NO. 391, F-12-014, S-12-001 & ECP-19-044					

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

REVISION	DATE
1	9/9/21

SOILS LEGEND			
SOIL	NAME	CLASS	Kw
BaA	Baile silt loam, 0 to 3 percent slopes	D	0.32
GnB	Glenville-Baile, 0 to 8 percent slopes	C	0.37
MdB	Manor loam, 3 to 8 percent slopes	B	0.24
MdC	Manor loam, 8 to 15 percent slopes	B	0.24
MdD	Manor loam, 15 to 25 percent slopes	B	0.24
UuB	Urban land-Udorthens complex, 0 to 8 percent slopes	X	0.28

SOIL INFORMATION TAKEN FROM WEBSOIL SURVEY
NOTE:
Hydric soils and/or contains hydric inclusions

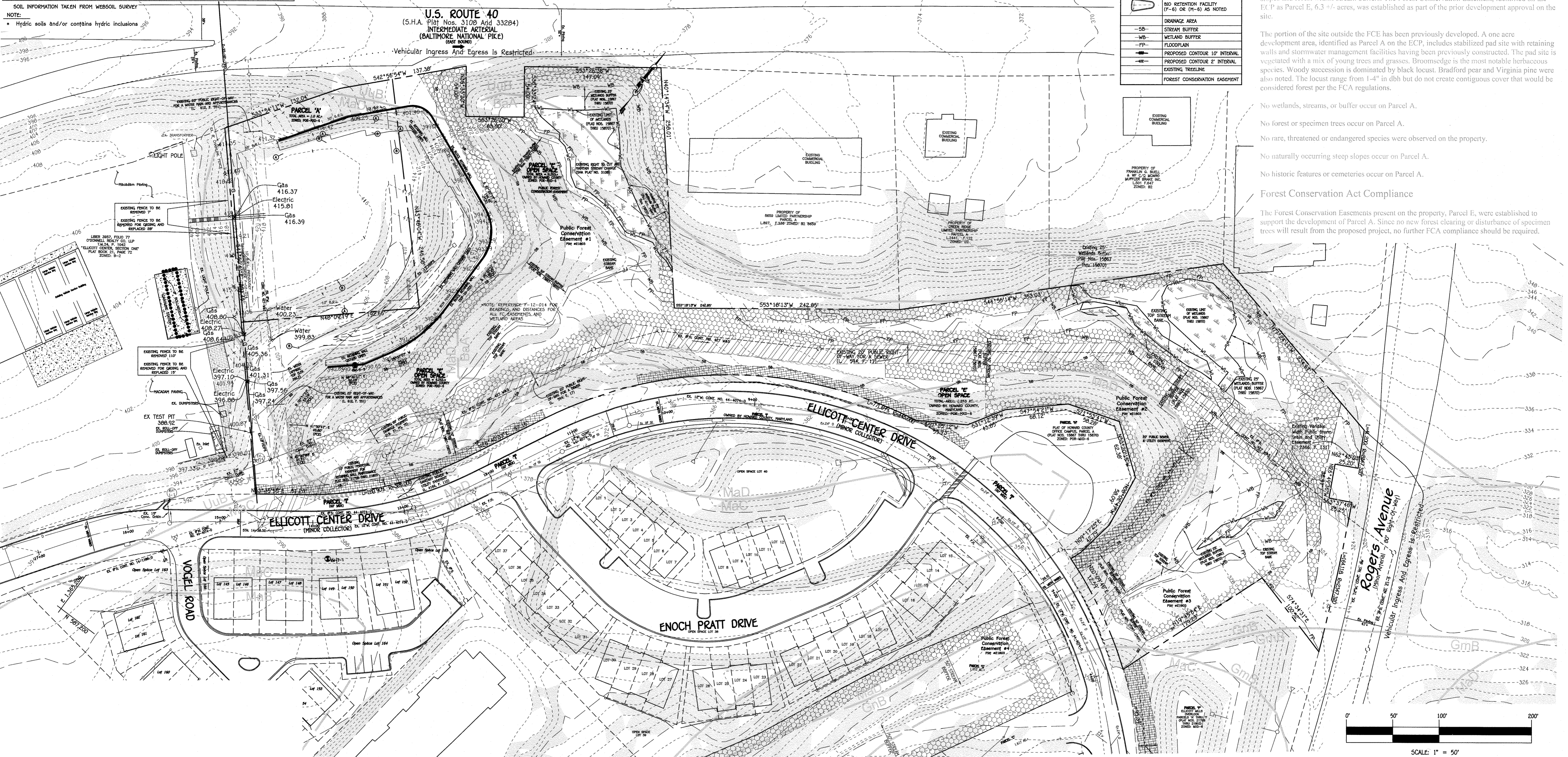
LEGEND	
SYMBOL	DESCRIPTION
(Symbol)	EXISTING CONTOUR 2' INTERVAL
(Symbol)	EXISTING CONTOUR 10' INTERVAL
(Symbol)	PROPOSED CONTOUR 10' INTERVAL
(Symbol)	PROPOSED CONTOUR 2' INTERVAL
(Symbol)	SPOT ELEVATION
(Symbol)	SOILS
(Symbol)	LIMIT OF DISTURBANCE
(Symbol)	FLOODPLAIN
(Symbol)	SUPER SILT FENCE
(Symbol)	NO RETENTION FACILITY (F-6) OR (M-6) AS NOTED
(Symbol)	DRAINAGE AREA
(Symbol)	STREAM BUFFER
(Symbol)	WETLAND BUFFER
(Symbol)	PROPOSED CONTOUR 10' INTERVAL
(Symbol)	PROPOSED CONTOUR 2' INTERVAL
(Symbol)	EXISTING TREELINE
(Symbol)	FOREST CONSERVATION EASEMENT

Existing Conditions Narrative
The site is located off of Ellicott Center Drive in the Ellicott City section of Howard County, Maryland. It is our understanding the project will involve the construction of a parking lot that will be incorporated into the adjacent County facility. The project will occur on a 7.3 +/- acre parcel shown on tax map 24 as parcel 852.

The majority of the site is forested and has been previously encumbered with a Forest Conservation Easement. The FCE includes both upland and wetland forest, forest on steep slopes and forest within stream buffers. The Forest Conservation Easement, identified on the ECP as Parcel E, 6.3 +/- acres, was established as part of the prior development approval on the site.

The portion of the site outside the FCE has been previously developed. A one acre development area, identified as Parcel A on the ECP, includes stabilized pad site with retaining walls and stormwater management facilities having been previously constructed. The pad site is vegetated with a mix of young trees and grasses. Broomsedge is the most notable herbaceous species. Woody succession is dominated by black locust, Bradford pear and Virginia pine were also noted. The locust range from 1-4" in dbh but do not create contiguous cover that would be considered forest per the FCA regulations.

- No wetlands, streams, or buffer occur on Parcel A.
 - No forest or specimen trees occur on Parcel A.
 - No rare, threatened or endangered species were observed on the property.
 - No naturally occurring steep slopes occur on Parcel A.
 - No historic features or cemeteries occur on Parcel A.
- Forest Conservation Act Compliance**
The Forest Conservation Easements present on the property, Parcel E, were established to support the development of Parcel A. Since no new forest clearing or disturbance of specimen trees will result from the proposed project, no further FCA compliance should be required.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/21/21 Date
 Director, Division of Land Development

[Signature] 11/16/21 Date
 Chief, Development Engineering Division

PROJECT: CENTRAL FLEET SECTION: PARCEL No. 852

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
2179B-2180C	6	FOR-MXD-6	24	SECOND	6051.02

PREVIOUS HOWARD COUNTY FILES:
 F-03-021, SDP-03-026, ECP-11-052, ZB 1093M, WP-12-087, PB CASE NO. 391,
 F-12-014, S-12-001 & ECP-19-044

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SERVICE OFFICE: 18272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042 (410) 461-2895



PROFESSIONAL CERTIFICATION
 "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, 7/14/23."
Frank J. Mendenhall, Jr. 10/1/21
 NAME DATE

OWNER/DEVELOPER
 HOWARD COUNTY
 3430 COURT HOUSE DRIVE
 ELICOTT CITY, MARYLAND 21043
 ATTN: MR. RICHARD LEE
 410-313-7548

REVISION	DATE
1 ADD EXIST. ELECTRIC, GAS & WATER SPOT SHOTS	7/2021

EXISTING CONDITIONS & DEMOLITION PLAN

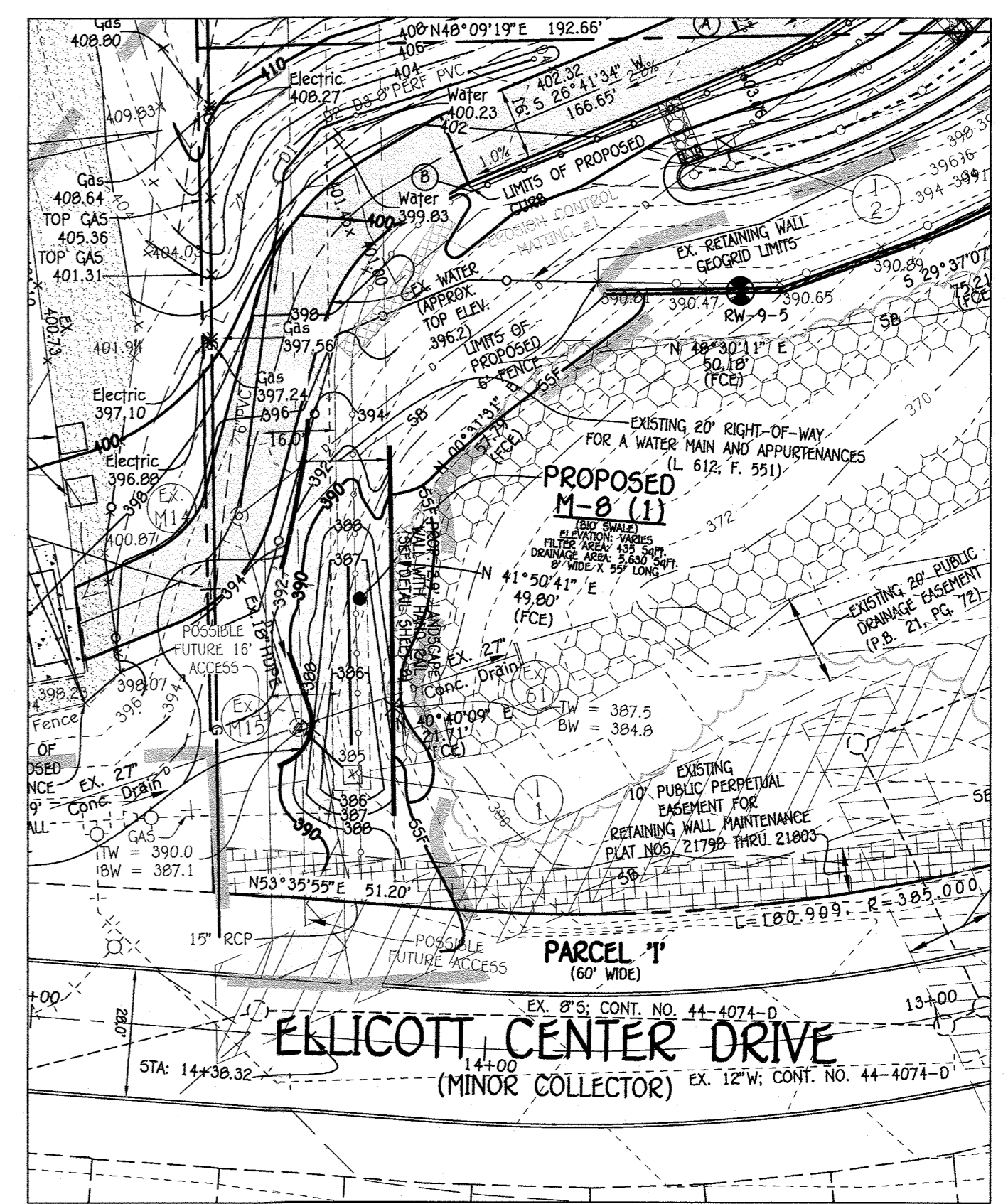
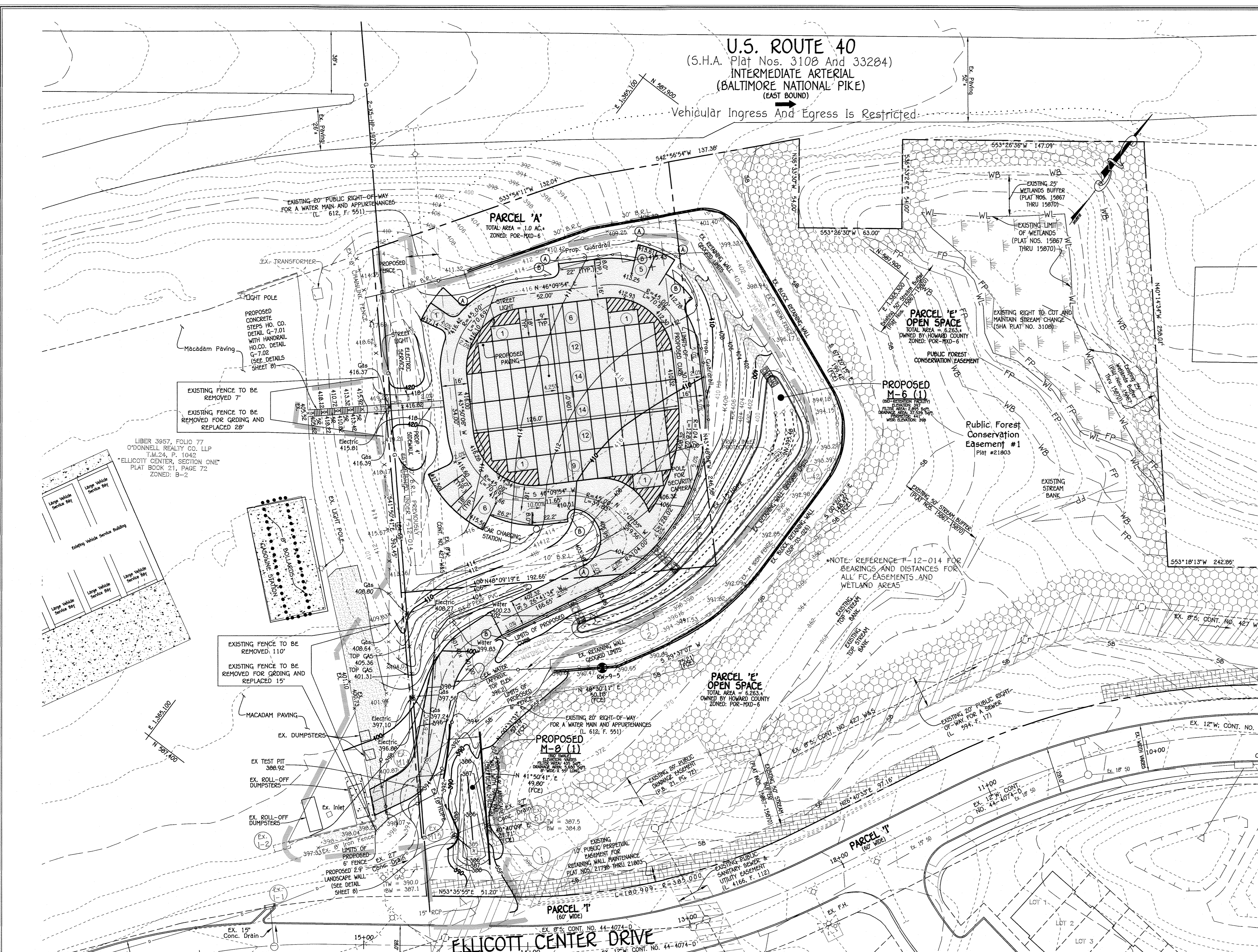
CENTRAL FLEET
 CAPITAL PROJECT C0317
 VEHICLE STORAGE LOT
 PARCELS 'A' AND 'E'
 ZONED: FOR-MXD-6
 TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 852
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: FEBRUARY, 2020
 SHEET 2 OF 10

SDP-19-062

U.S. ROUTE 40
 (S.H.A. Plat Nos. 3108 And 33284)
 INTERMEDIATE ARTERIAL
 (BALTIMORE NATIONAL PIKE)
 (EAST BOUND)

Vehicular Ingress And Egress Is Restricted

- (A) = GUARD RAIL END TREATMENT SHA STD. MD. 605.08
- (B) = GUARD RAIL END TREATMENT SHA STD. MD. 605.20
- (SEE DETAILS SHEET 8)



FUTURE ENTRANCE
 SCALE: 1" = 30'
 (NOT PROPOSED ON THIS PLAN)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/21/21
 Chief, Division of Land Development Date

[Signature] 12-2-21
 Director, Department of Planning and Zoning Date

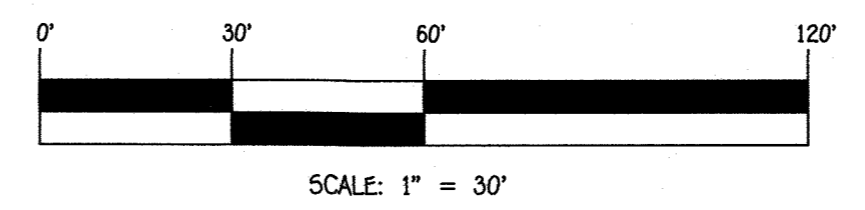
[Signature] 11-16-21
 Chief, Development Engineering Division Date

PROJECT	SECTION	PARCEL NO.
CENTRAL FLEET		852
PLAT	BLOCK NO.	ZONE
21798-21803	6	POR-MXD-6
TAX/ZONE	ELEC. DIST.	CENSUS TR.
24	SECOND	6051.02

PREVIOUS HOWARD COUNTY FILES:
 F-03-021, SDF-03-026, ECP-11-092, ZB 1093M, WP-12-087, PB CASE NO. 391,
 F-12-014, S-12-001 & ECP-19-044



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Frank John Mauldin
 NAME DATE 12/1/21



OWNER/DEVELOPER
 HOWARD COUNTY
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MARYLAND 21043
 ATTN: MR. RICHARD LEE
 410-313-7548

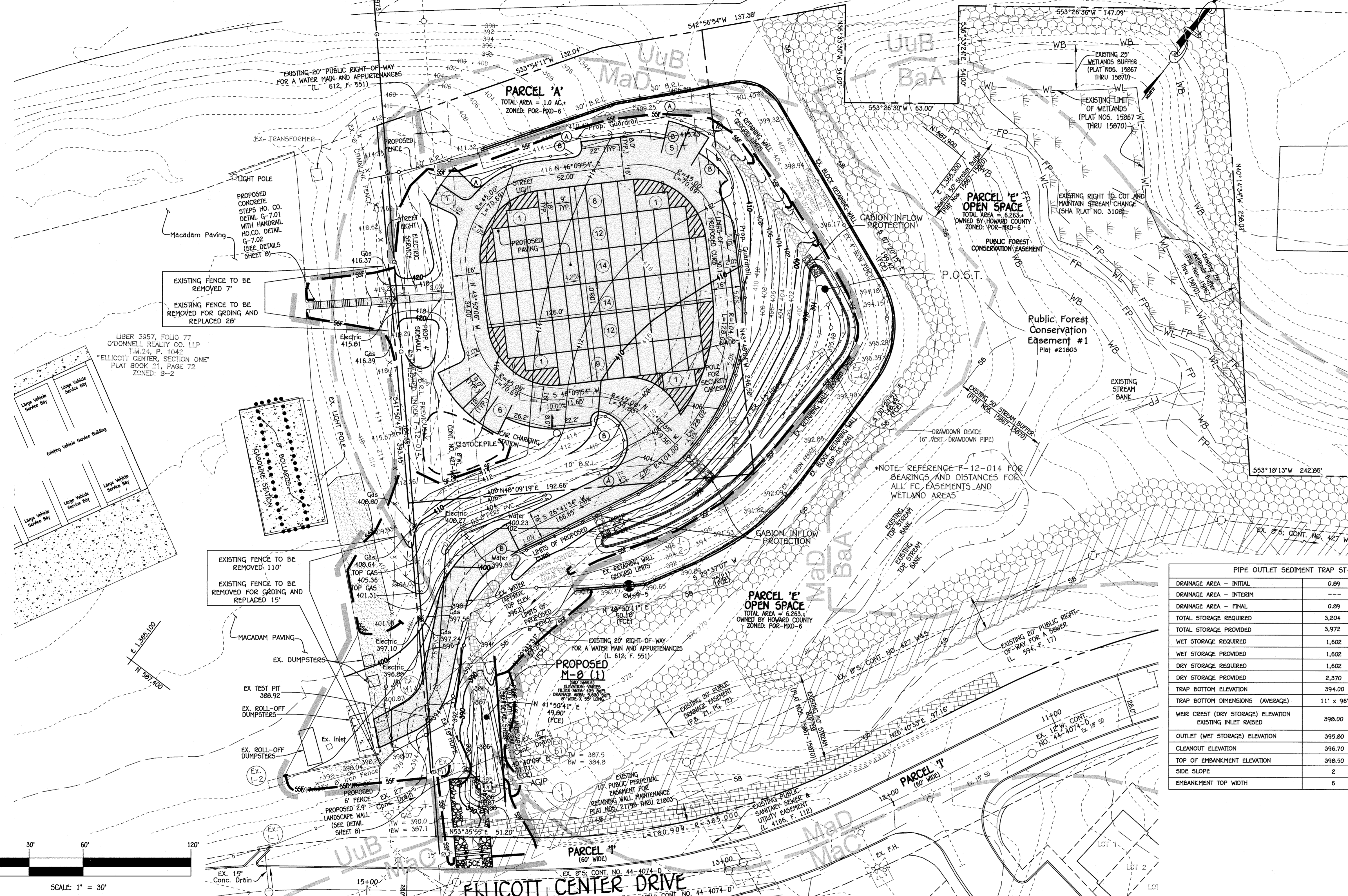
1	ADD EXIST. POINTS, REVISE GRADING, LOD & SWM	7/2021
REVISION	DATE	

SITE DEVELOPMENT PLAN

CENTRAL FLEET
 CAPITAL PROJECT C0317
 VEHICLE STORAGE LOT
 PARCELS 'A' AND 'E'
 ZONED: POR-MXD-6
 TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 852
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: FEBRUARY, 2020
 SHEET 3 OF 10

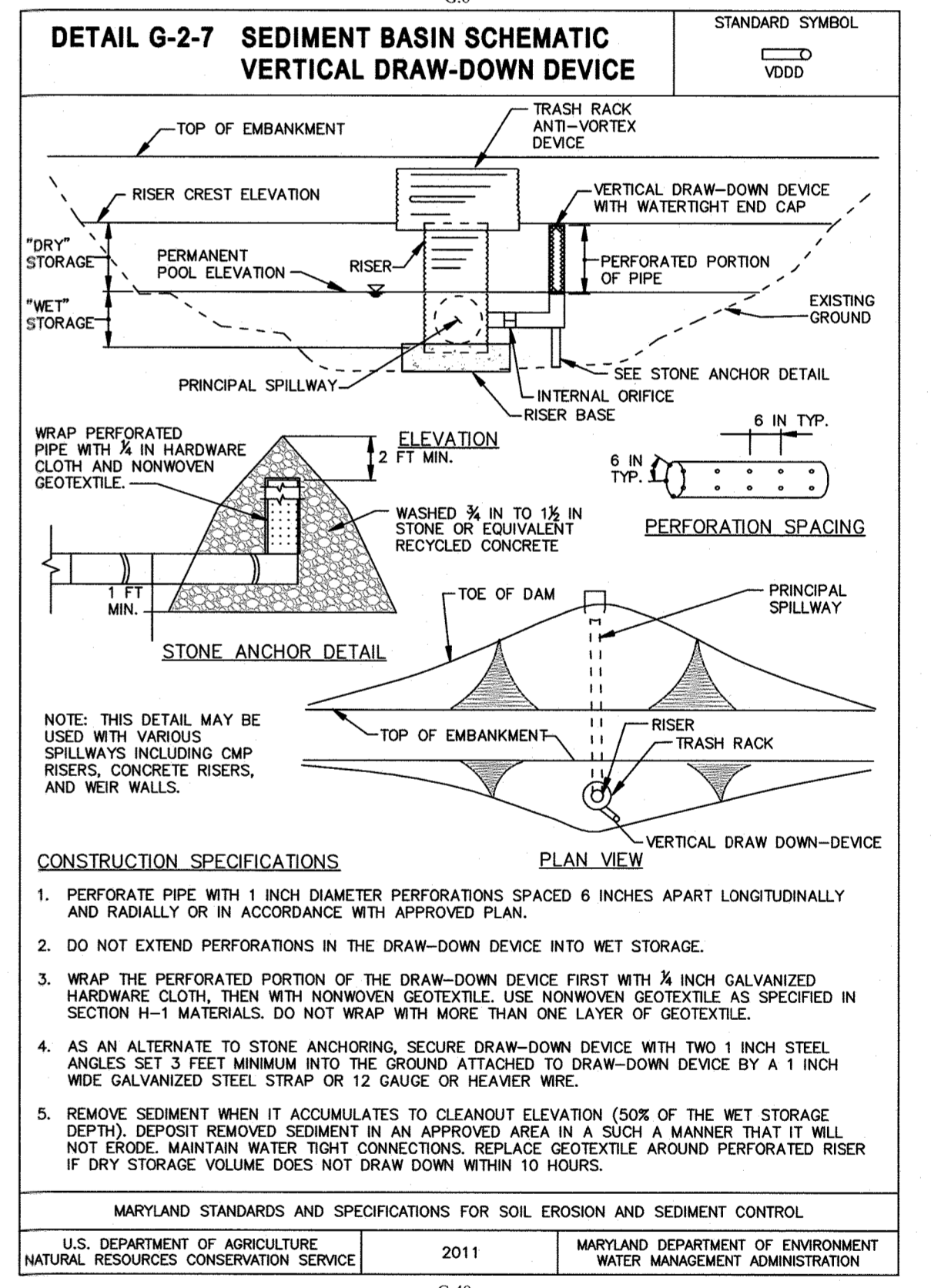
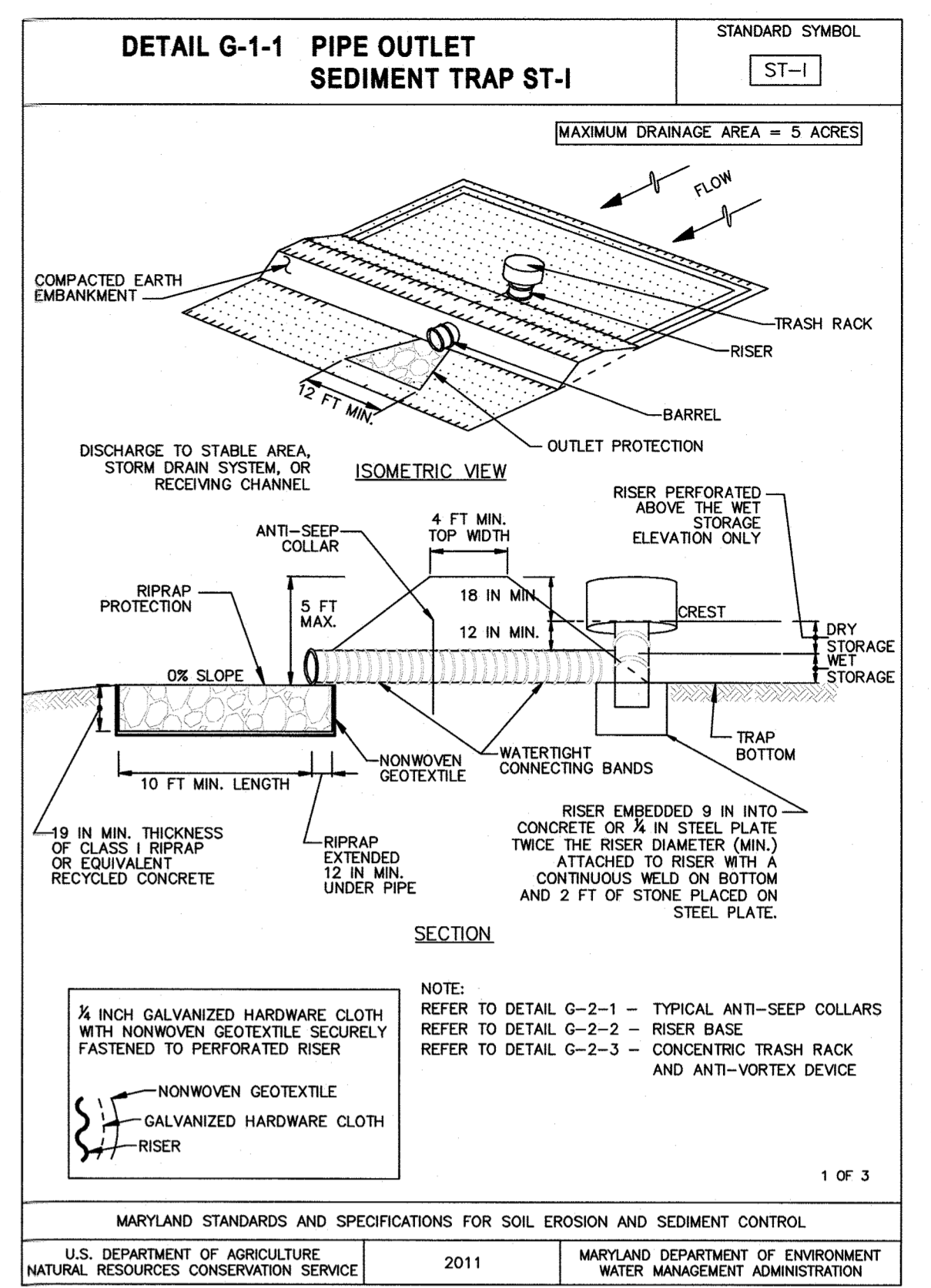
SOILS LEGEND				
SOIL	NAME	CLASS	Kw	
BaA	Baile silt loam, 0 to 3 percent slopes	D	0.32	
GnB	Glenville-Baile, 0 to 3 percent slopes	C	0.37	
MaB	Manor loam, 3 to 8 percent slopes	B	0.24	
MaC	Manor loam, 8 to 15 percent slopes	B	0.24	
MaD	Manor loam, 15 to 25 percent slopes	B	0.24	
UuB	Urban land-Udorthents complex, 0 to 8 percent slopes	D	0.28	

SOIL INFORMATION TAKEN FROM WEBSOIL SURVEY



U.S. ROUTE 40
(S.H.A. Plat Nos. 3108 And 33284)
INTERMEDIATE ARTERIAL
(BALTIMORE NATIONAL PIKE)
(EAST BOUND)

Vehicular Ingress And Egress Is Restricted



PARAMETER	VALUE	UNIT
DRAINAGE AREA - INITIAL	0.89	ACRES
DRAINAGE AREA - INTERIM	---	ACRES
DRAINAGE AREA - FINAL	0.89	ACRES
TOTAL STORAGE REQUIRED	3,204	CF
WET STORAGE REQUIRED	1,602	CF
WET STORAGE PROVIDED	1,602	CF
DRY STORAGE REQUIRED	1,602	CF
DRY STORAGE PROVIDED	2,370	CF
TRAP BOTTOM ELEVATION	394.00	FT
TRAP BOTTOM DIMENSIONS (AVERAGE)	11' x 96'	FT x FT
WEIR CREST (DRY STORAGE) ELEVATION	398.00	FT
CLEANOUT ELEVATION	395.00	FT
TOP OF EMBANKMENT ELEVATION	398.50	FT
SIDE SLOPE	2	HV RATIO
EMBANKMENT TOP WIDTH	6	FT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/21/21
Date
Chief, Division of Land Development

[Signature] 12/21/21
Date
Director, Department of Planning and Zoning

[Signature] 11/16/21
Date
Chief, Development Engineering Division

PROJECT	SECTION	PARCEL NO.
CENTRAL FLEET		852

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
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FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461-2895

PROFESSIONAL CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT 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] 11/3/21
DATE
SIGNATURE OF LICENSED PROFESSIONAL FRANK JOHN MANALANSAN II

BUILDER/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 ANY 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] 11-03-21
DATE
SIGNATURE OF DEVELOPER

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 11/03/21
DATE
SIGNATURE OF RICHARD LEE
HOWARD SOIL CONSERVATION DISTRICT

OWNER/DEVELOPER

HOWARD COUNTY
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043
ATTN: MR. RICHARD LEE
410-313-7548

SEDIMENT EROSION CONTROL PLAN

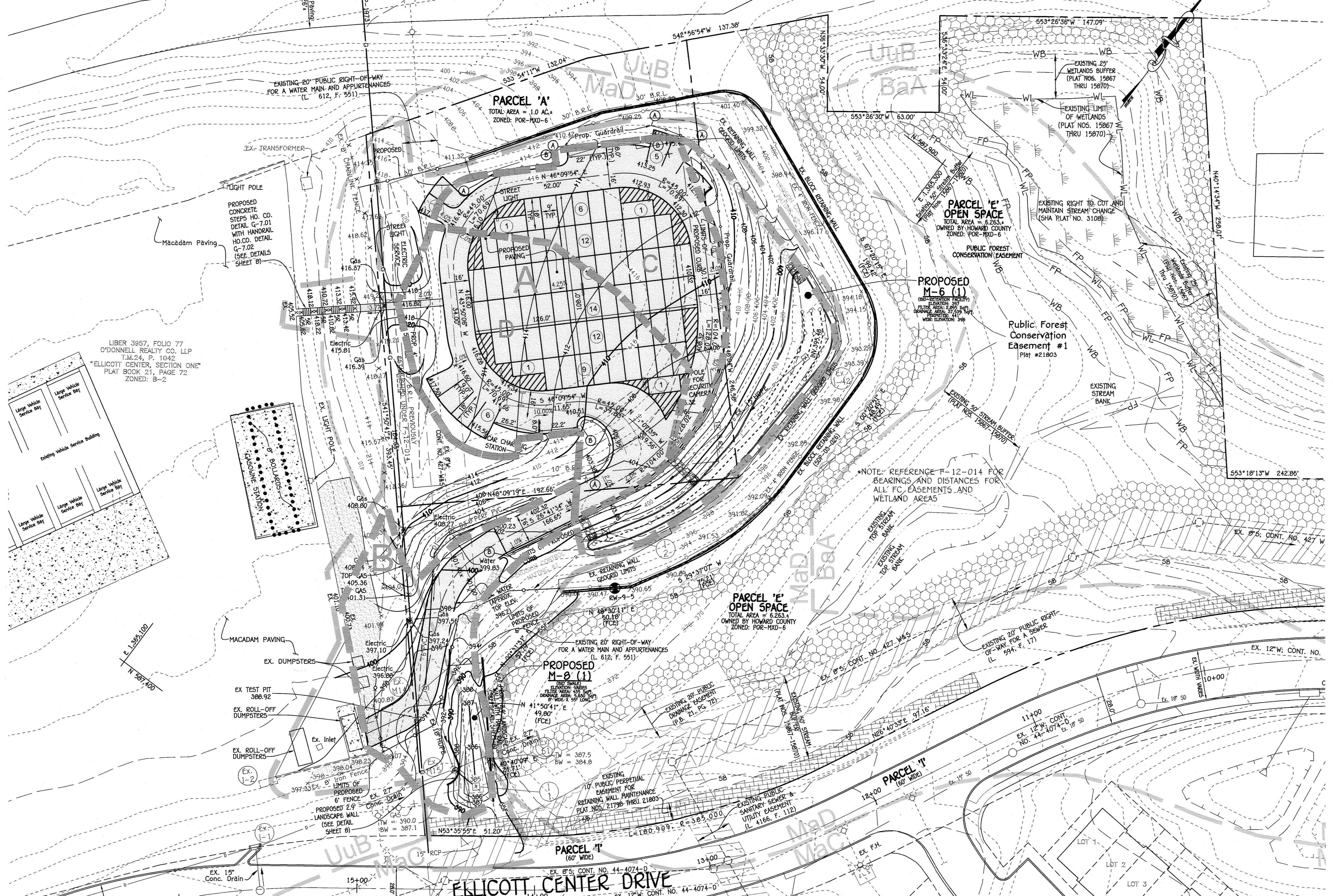
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TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 852
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 2020

1 ADD POINTS, REVISE GRADING, LOD, S5F & SWM 7/2021
REVISION DATE

SHEET 4 OF 10
SDP-19-062

U.S. ROUTE 40
 (5.H.A. Plat Nos. 3108 And 33284)
 INTERMEDIATE ARTERIAL
 (BALTIMORE NATIONAL PIKE)
 (EAST BOUND)
 Vehicular Ingress And Egress Is Restricted



DRAINAGE AREA DATA			
DRAINAGE AREA	STRUCTURE NO.	AREA (AC.)	% IMP.
A	Ex. 1-42 & 1-2	0.06	0.67
B	1-1	0.23	0.36
C	CURB OPENING #1	0.26	0.93
D	CURB OPENING #2	0.37	0.81

SOILS LEGEND			
SOIL	NAME	CLASS	Kw
BaA	Baile silt loam, 0 to 3 percent slopes	D	0.32
MaC	Minor loam, 0 to 15 percent slopes	B	0.24
MaD	Minor loam, 15 to 25 percent slopes	B	0.24
UuB	Urban land-Udorthents complex, 0 to 8 percent slopes	X	0.28

NOTE:
 * Hydric soils and/or contains hydric inclusions

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
x362.2	SPOT ELEVATION
SOILS	SOILS
LOD	LIMIT OF DISTURBANCE
SSF	SUPER SILT FENCE
NO RETENTION FACILITY	NO RETENTION FACILITY (F-3 OR (F-4) AS NOTED)
SB	STREAM BUFFER
WB	WETLAND BUFFER
FP	FLOODPLAIN
---	PROPOSED CONTOUR 10' INTERVAL
---	PROPOSED CONTOUR 2' INTERVAL
---	EXISTING TREELINE
---	FOREST CONSERVATION EASEMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/2/21
 Chief, Division of Land Development Date

[Signature] 11/11/21
 Director, Department of Planning and Zoning Date

[Signature] 11/11/21
 Chief, Development Engineering Division Date

PROJECT	SECTION	PARCEL No.
CENTRAL FLEET		052
PLAT	BLOCK NO.	ZONE
21790-21803	6	POR-MXD-6
TAX/ZONE	ELEC. DIST.	CENSUS TR.
24	SECOND	6051.02

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

PROFESSIONAL CERTIFICATION

"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, 7/14/23.

[Signature] 10/1/21
 NAME DATE

STATE OF MARYLAND
 PROFESSIONAL LAND SURVEYOR
 LICENSE NO. 21476

0' 30' 60' 120'

SCALE: 1" = 30'

OWNER/DEVELOPER

HOWARD COUNTY
 3430 COURT HOUSE DRIVE
 ELICOTT CITY, MARYLAND 21043
 ATTN: MR. RICHARD LEE
 410-313-7548

1	ADD POINTS, REV. GRADING, LOD, SWM & DRAINAGE	7/2021
	REVISION	DATE

SOILS AND STORMDRAIN DRAINAGE AREA MAP

CENTRAL FLEET
 CAPITAL PROJECT C0317
 VEHICLE STORAGE LOT
 PARCELS 'A' AND 'E'
 ZONED: POR-MXD-6
 TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 052
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: FEBRUARY, 2020
 SHEET 6 OF 10

SDP-19-062

DEVELOPER'S / BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Sharon Walsh
SHARON WALSH

9-24-21
DATE

U.S. ROUTE 40
(S.H.A. Plat Nos. 3108 And 33284)
INTERMEDIATE ARTERIAL
(BALTIMORE NATIONAL PIKE)
(EAST BOUND)

Vehicular Ingress And Egress Is Restricted

PLANTING SPECIFICATIONS

PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND AS DESCRIBED HEREIN.

ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD INJURIES, ABRASIONS OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISTURBANCES. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG; NO HEALED-IN PLANTS FROM COLD STORAGE WILL BE ACCEPTED.

UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATION SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS" (HEREINAFTER "LANDSCAPE GUIDELINES") APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECT, LATEST EDITION, INCLUDING ALL AGENDA.

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL.

BID SHALL BE BASE ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS AND SPECIFICATIONS.

ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILS AND SPECIFIED EXCEPT WHERE NOTED ON PLANS.

POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS 2 PERCENT SLOPE.

PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COW OR HORSE MANURE. ADD 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX. EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL, ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.

WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL USAGE TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.

ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION NOT DESIGNATED TO RECEIVE PLANTS AND MULCH SHALL BE FINE GRADED AND SEEDED.

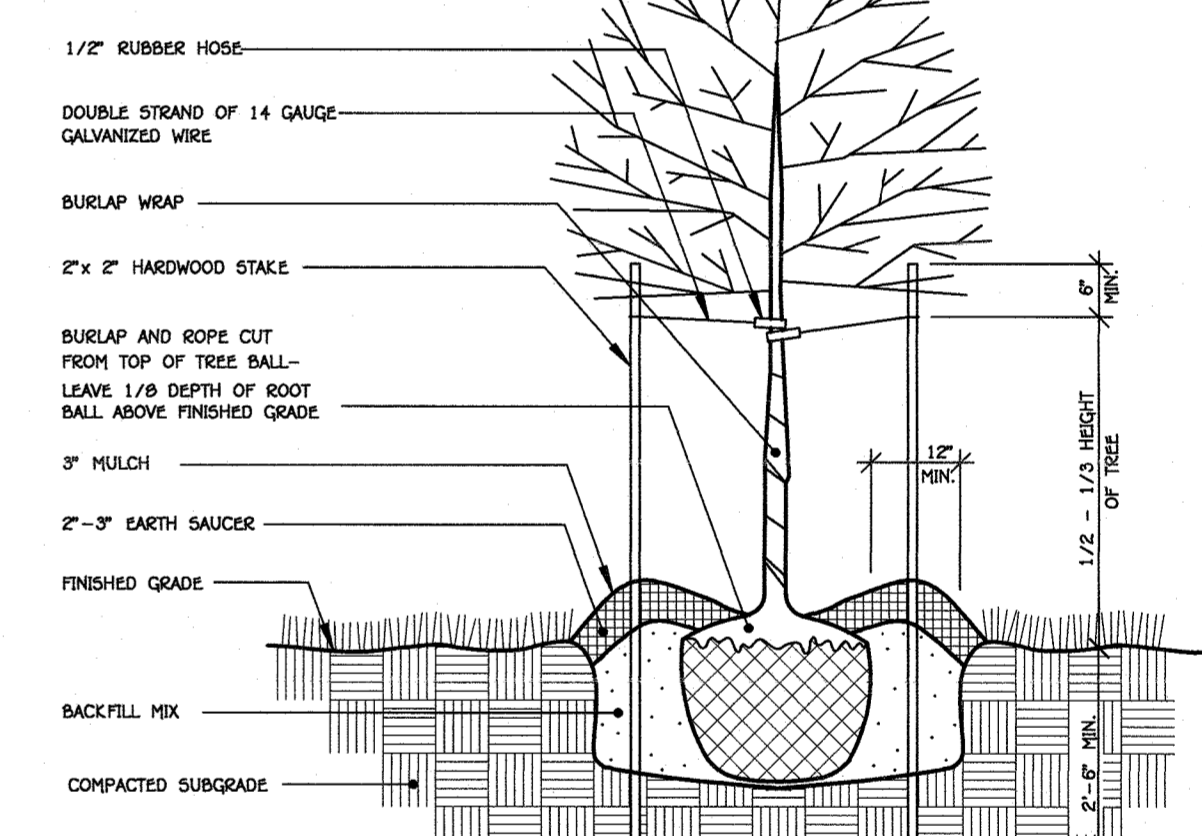
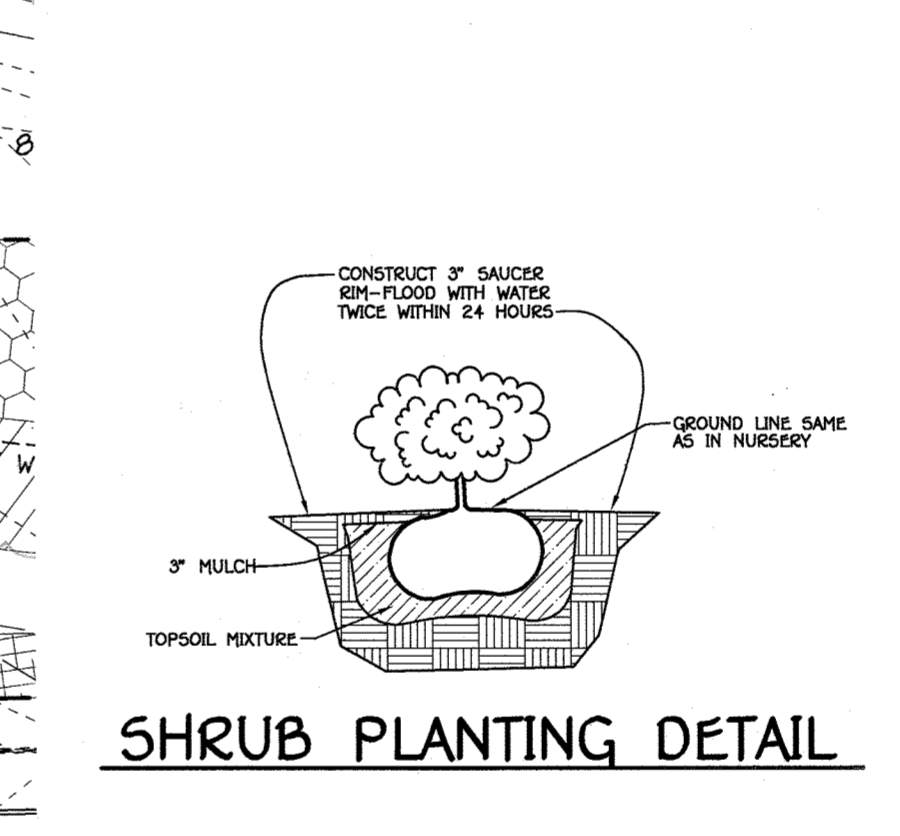
*At the time of plant installation, all trees listed and approved on the Landscape Plan, shall comply with the proper height requirement in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocations of the required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviations from the approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to the road drawing plans.

*The Owner, tenants and/or their agents shall be responsible for maintenance of the required perimeter landscaping. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All the other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.

NOTE: P5 AND P6 ARE ALONG THE OUTER BOUNDARY OF PARCEL 'A' AND THEREFORE ARE THE ONLY PERIMETERS REQUIRED TO ADDRESS LANDSCAPING. THE EASTERN AND SOUTHERN BOUNDARIES OF PARCEL 'A' ARE ADJACENT TO FOREST EASEMENTS AND ARE INTERNAL TO THE ORIGINAL SUBDIVISION.

NOTE: THE DEPARTMENT OF PLANNING AND ZONING APPROVES THE LANDSCAPE ALTERNATIVE OF PLACING SOME OF THE REQUIRED P6 SHADE TREES AROUND THE EASTERN AND SOUTHERN BOUNDARIES OF PARCEL 'A' AS SHOWN.

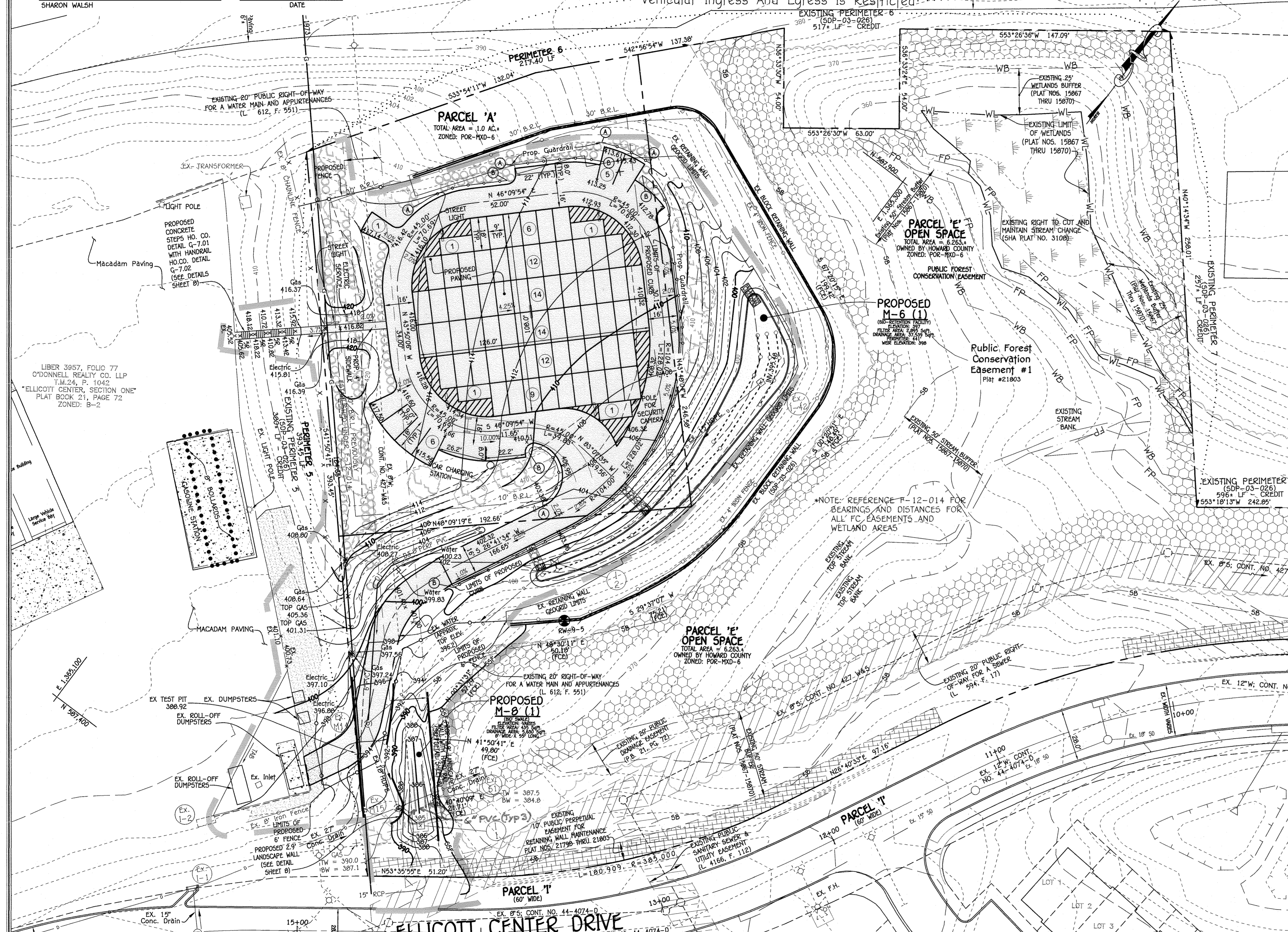
LANDSCAPING PLANT LIST				
SYMBOL	QUANTITY	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
☉	21	ACER RUBRUM "OCTOBER GLORY" RED MAPLE	2 1/2" - 3" CAL.	
○	154	CLETHRA ALNIFOLIA SUMMERSWEET CLETHRA	2 1/2" - 3" HGT.	



SCHEDULE A PERIMETER LANDSCAPE EDGE			
PERIMETER	P5 *See Note Below	P6	
CATEGORY	BUFFER - PARKING ADJACENT TO ROUTE 40	BUFFER - PARKING ADJACENT TO ROUTE 40	
LANDSCAPE TYPE	E	E	
LINEAR FEET OF PERIMETER	393.45'	217.40'	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE IF NEEDED)	NO	NO	
NUMBER OF PLANTS REQUIRED			
SHADE TREES	10		6
EVERGREEN TREES	39		55
SHRUBS	99		55
NUMBER OF PLANTS PROVIDED			
SHADE TREES	10		6
EVERGREEN TREES	-		-
OTHER TREES (2:1 SUBSTITUTION)	99		55
SHRUBS (10:1 SUBSTITUTION)	-		-
(DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED)			

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	NON-RESIDENTIAL PARKING LOT
87	5

*A TYPE 'E' LANDSCAPE PERIMETER HAS BEEN SUBSTITUTED FOR TYPE 'C' PROVIDED ON PERIMETER 5 TO ALLOW FOR GREATER BLOCKING OF HEADLIGHTS TOWARDS ROUTE 40 (BALTIMORE NATIONAL PIKE) AND TO REDUCE THE DEPTH OF ROOTS IN THE VICINITY OF EXISTING PUBLIC CONTRACT #427 W&S



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

Chief, Division of Land Development: *[Signature]* 12/2/21
Director, Department of Planning and Zoning: *[Signature]* 12/2/21

Chief, Development Engineering Division: *[Signature]* 11/16/21

PROJECT	SECTION	PARCEL NO.			
CENTRAL FLEET		852			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
21798-21803	6	POR-MXD-6	24	SECOND	6051.02

PREVIOUS HOWARD COUNTY FILES:
F-03-021, S0P-03-026, ECP-11-092, ZB 1093M, WP-12-087, PB CASE NO. 391,
F-12-014, S-12-001 & ECP-19-044

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

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[Signature]
NAME: *[Name]* DATE: 12/2/21

SCALE: 1" = 30'

OWNER/DEVELOPER

HOWARD COUNTY
3430 COURT HOUSE DRIVE
ELLICOTT CITY, MARYLAND 21043
ATTN: MR. RICHARD LEE
410-313-7548

REVISION	DATE
1 ADD EXIST. POINTS, REVISE GRADING, LOD & SWM	7/2021

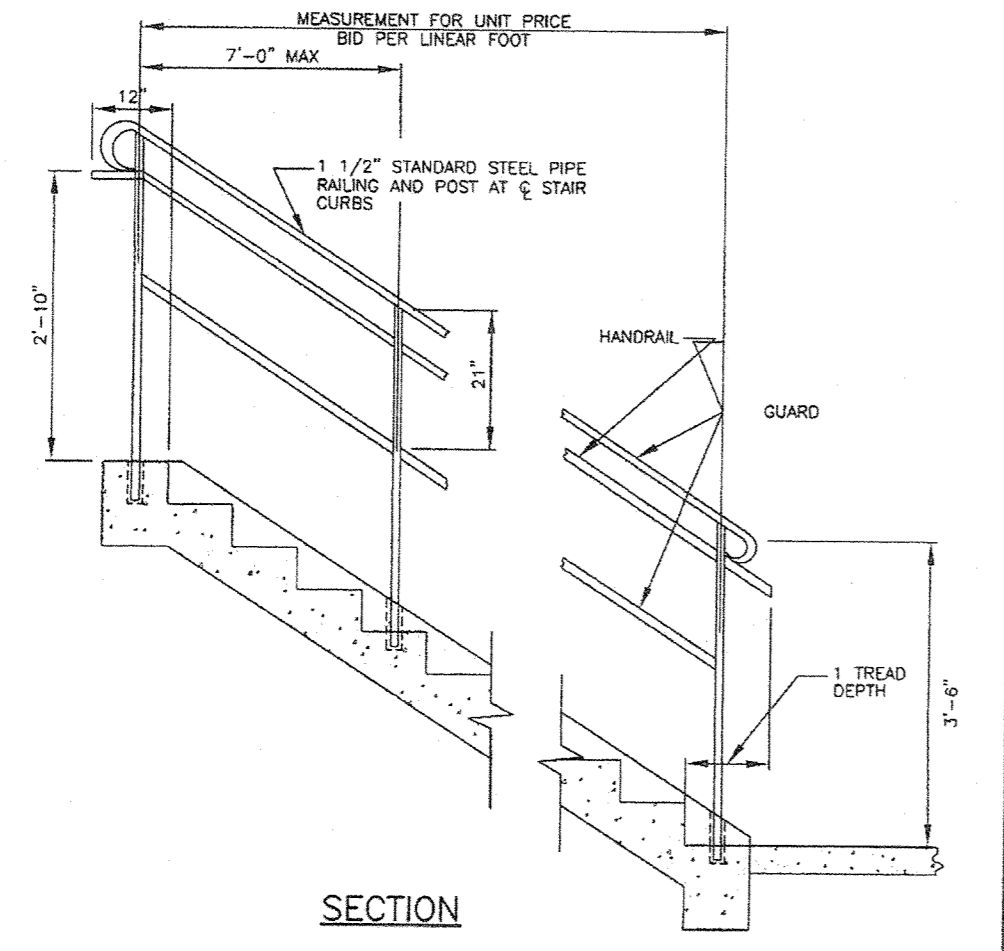
LANDSCAPE PLAN

CENTRAL FLEET
CAPITAL PROJECT C0317
VEHICLE STORAGE LOT
PARCELS 'A' AND 'E'
ZONED: POR-MXD-6
TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 852
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 2020
SHEET 7 OF 10

50P-19-062

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BEARING RATIO (CBR)					
		3 TO <5	5 TO <7	>7	3 TO <5	5 TO <7	>7
P-2	PARKING DRIVE ASIDES, RESIDENTIAL AND NON-RESIDENTIAL WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY LOCAL ROADS: ACCESS PLACE, ACCESS STREET CUL-DE-SACS: RESIDENTIAL	PAVEMENT MATERIAL (INCHES)					
		HMA SUPERPAVE FINAL SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)					
		HMA SUPERPAVE INTERMEDIATE SURFACE 9.5 MM, PG 64-22, LEVEL 1 (ESAL)					
		HMA SUPERPAVE BASE 19.0 MM, PG 64-22, LEVEL 1 (ESAL)					
		GRADED AGGREGATE BASE (GAB)					
		1.5	1.5	1.5	1.5	1.5	1.5
		1.0	1.0	1.0	1.0	1.0	1.0
		2.0	2.0	2.0	3.5	2.0	2.0
		8.0	4.0	3.0	4.0	4.0	4.0

- NOTES:**
- UNLESS OTHERWISE NOTED, PAINTED RAILINGS SHALL BE FURNISHED.
 - RAILING AND POSTS TO BE PAINTED SHALL CONFORM TO ASTM A120 STANDARD HEIGHT.
 - RAILING AND POSTS TO BE GALVANIZED SHALL CONFORM TO ASTM A441 SEE SPECIFICATIONS.
 - UNLESS OTHERWISE NOTED, RAILINGS SHALL BE FURNISHED FOR BOTH SIDES OF STAIRS AND ON ALL STAIRS HAVING 4 RIGIDERS AND OVER.
 - RAILING SHALL BE ALL WELDED WITH ITS JOINTS GROUND SMOOTH AND FREE OF BURRS.
 - RAILING POSTS SHALL BE SET IN METAL SLEEVES, 6" DEEP AND FILLED WITH HOT POURED LEAD OR HOT POURED SULFUR OR AN EQUIVALENT EPOXY COMPOUND.
 - GALVANIZED RAILINGS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - PAINTED RAILINGS SHALL BE PAINTED IN ACCORDANCE WITH SECTION 912 OF THE SPECIFICATIONS.
 - THIS HANDRAIL IS TO BE USED ONLY AS A PROTECTION FOR PEDESTRIANS AND SHOULD NOT BE PLACED IN ANY LOCATION WHERE IT MIGHT BE SUBJECT TO VEHICULAR IMPACT. FOR VEHICULAR PROTECTION, STANDARD GUARD RAIL SHOULD BE USED.
 - THE RAILING SHALL BE PAID FOR AT THE UNIT PRICE BID PER LINEAR FOOT, MEASURED HORIZONTALLY, FOR "CONCRETE STAIRS PIPE RAILING" COMPLETE IN PLACE, OR ITS COST SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "CONCRETE STAIRS", COMPLETE IN PLACE.
 - THIS DETAIL IS APPLICABLE ONLY IN INDUSTRIAL SETTINGS WITH NO PUBLIC ACCESS. (EXAMPLE: PUMP STATIONS)

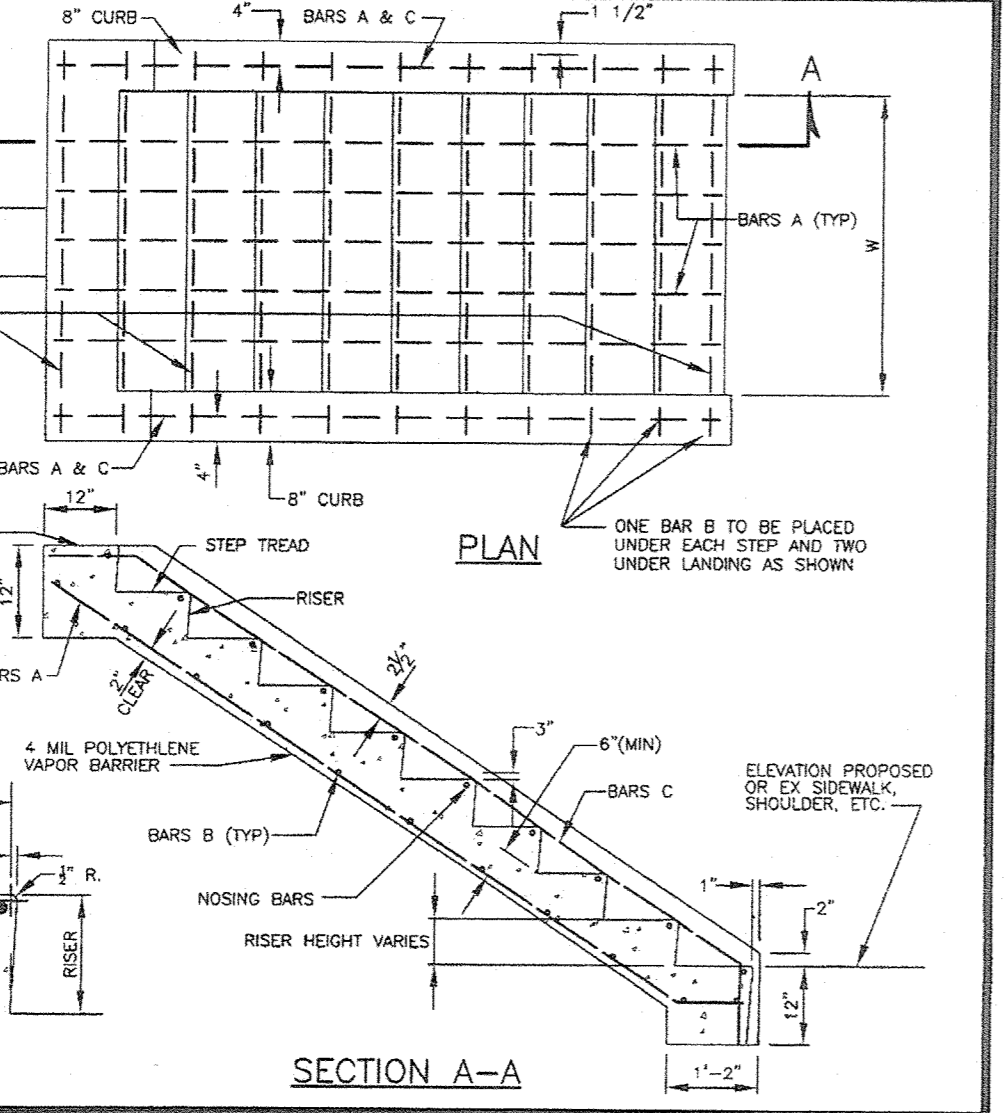


Howard County, Maryland
Department of Public Works

Concrete Stairs
Pipe Railing

Detail
G-7.02

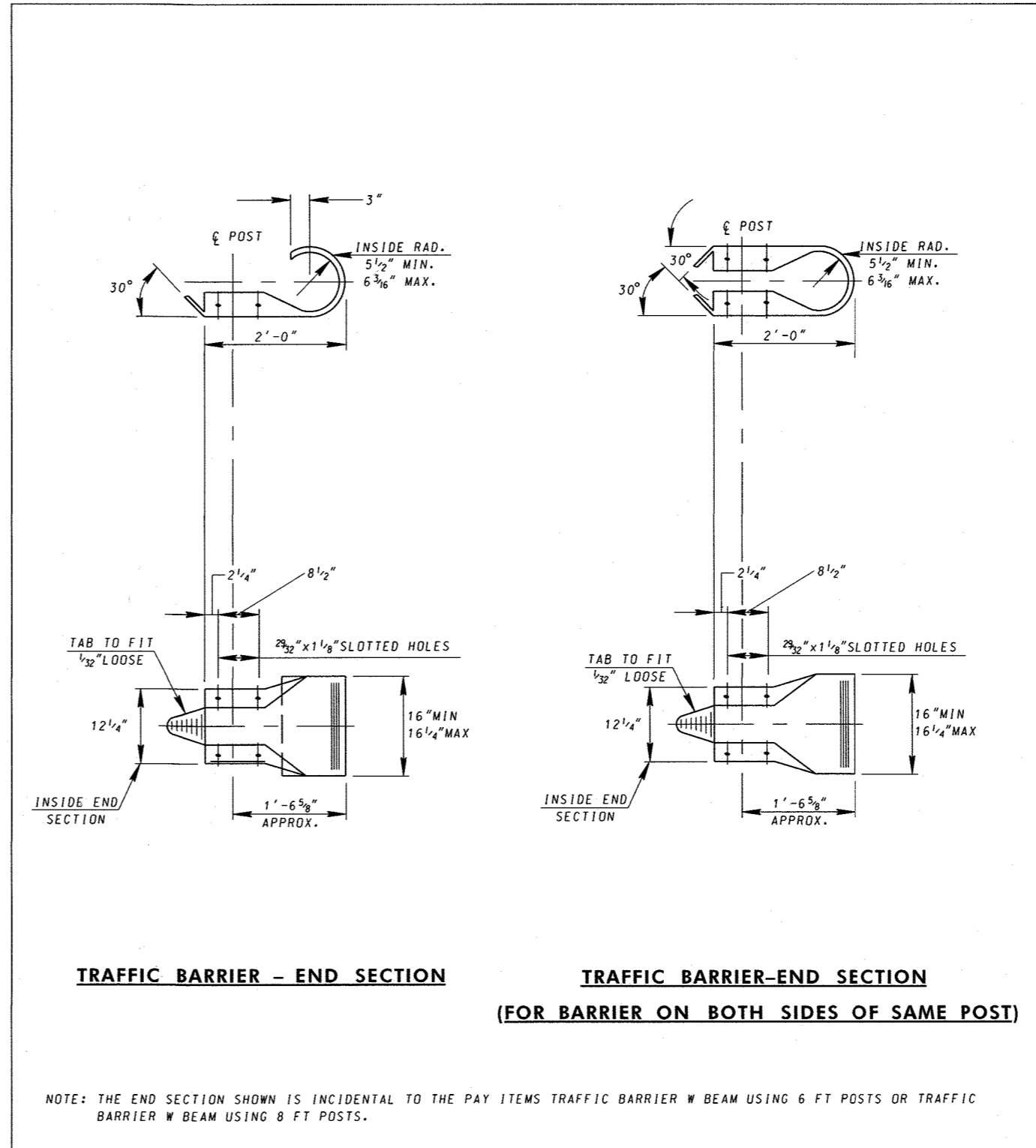
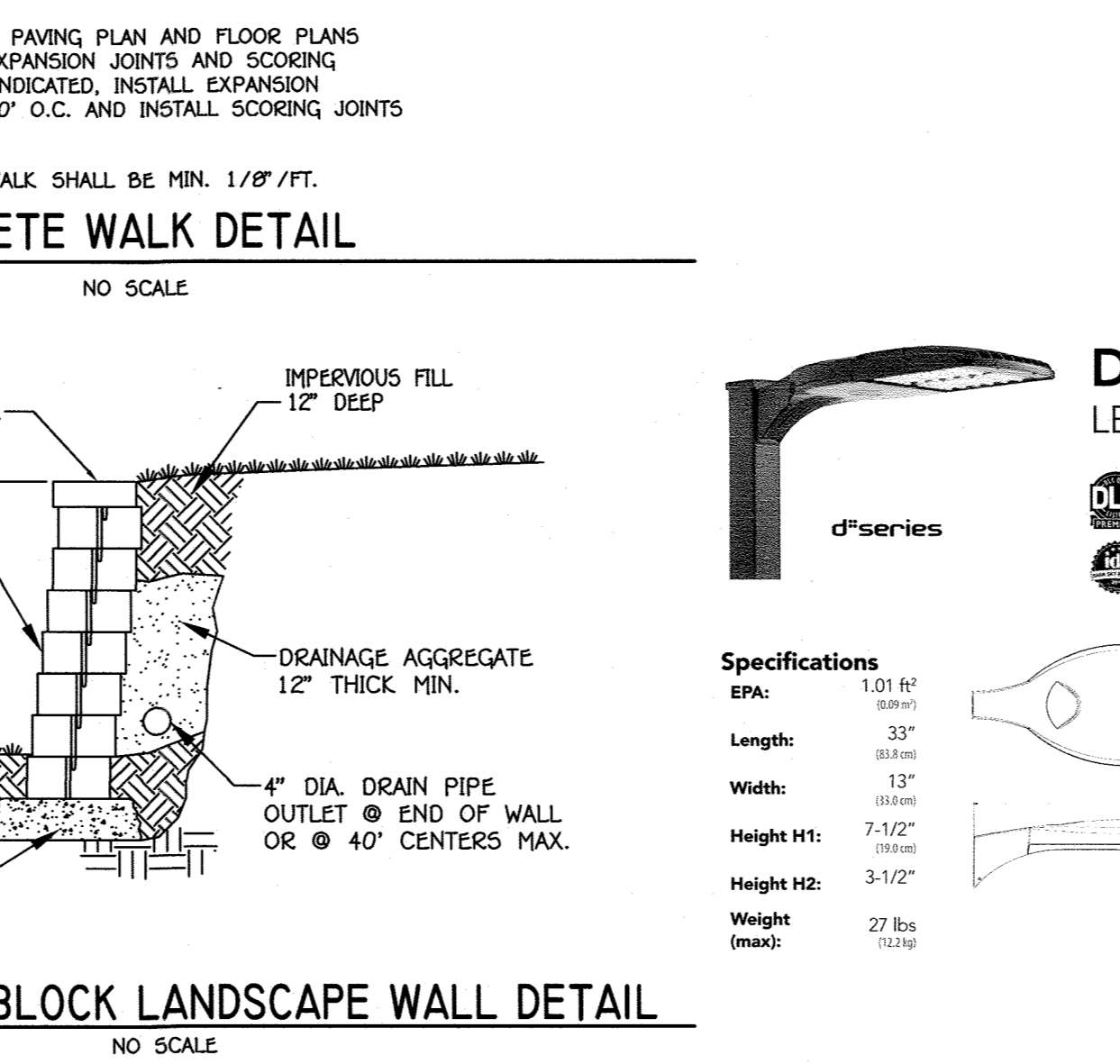
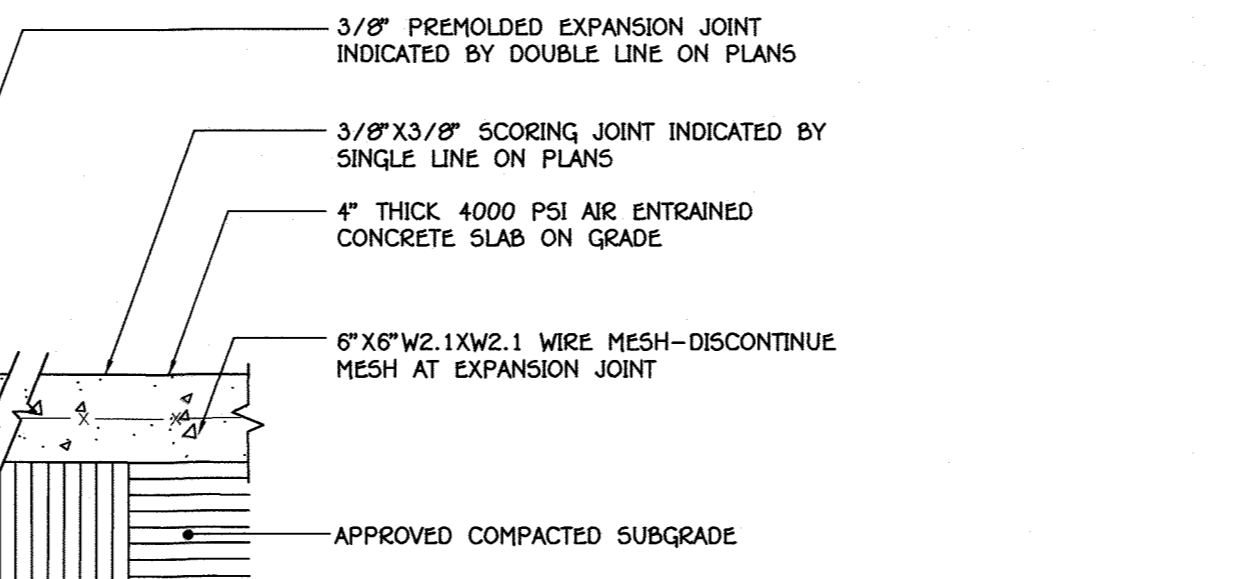
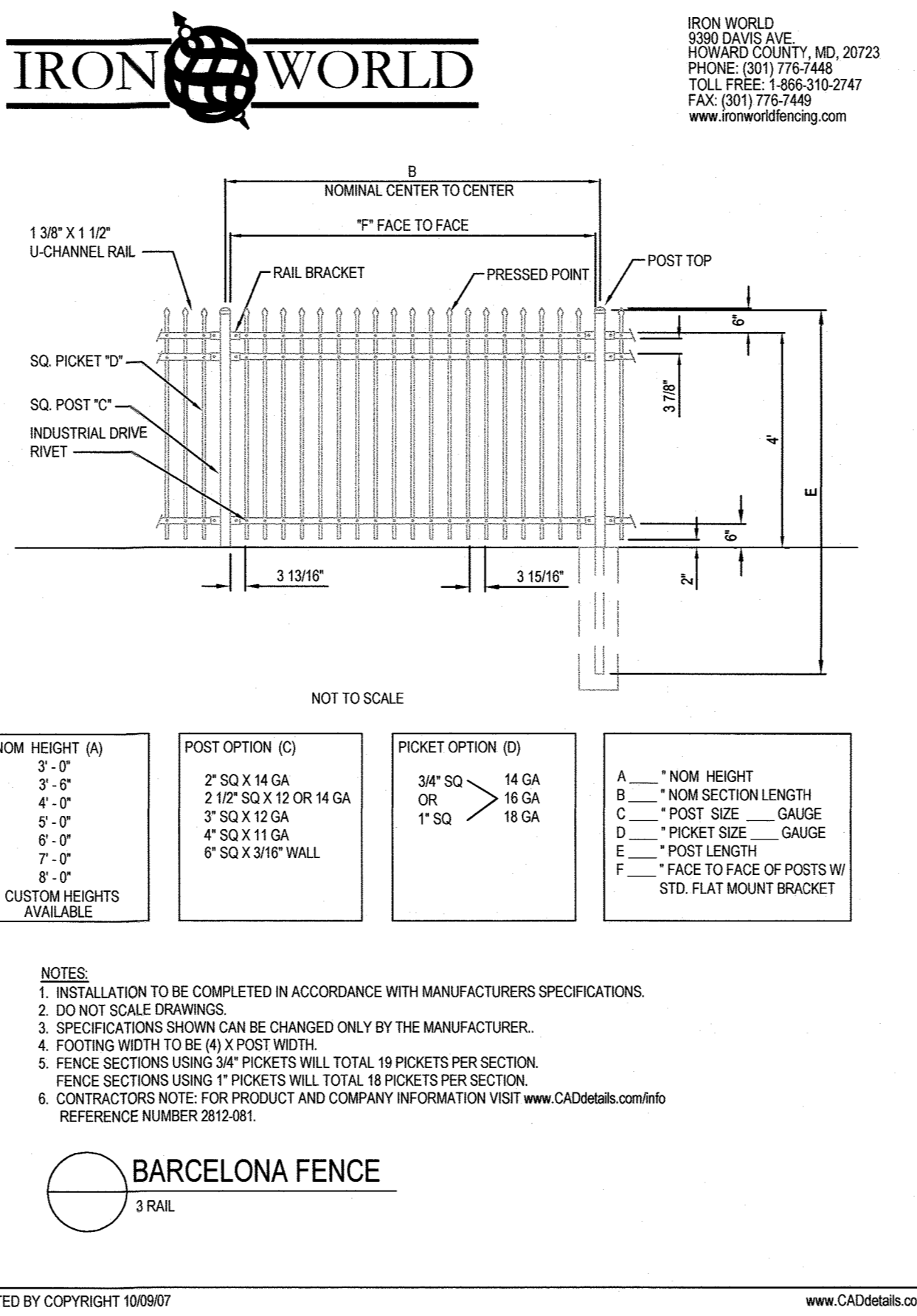
- NOTES:**
- CONCRETE: MIX NO.2
 - CHAMBERS: 3/4"x3/4"
 - EXPOSED SURFACES: CLASS 1 SURFACE FINISH.
 - REINFORCING STEEL: A-15 WITH A-305 DEFORMATIONS.
 - ALL REINFORCING BARS SHALL BE NO.4 BARS EXCEPT NOSING BARS.
 - A, B, AND C BARS SHALL BE USED IN THE INSTALLATIONS OF SIX OR MORE STEPS.
 - NOSING BARS SHALL BE NO.2 BARS AND PLACED IN ALL STEPS REGARDLESS OF STAIR LENGTH. MINIMUM COVER 2 INCHES.
 - UNLESS OTHERWISE NOTED, ALL TREADS SHALL BE FINISHED WITH A LIGHTLY-BROOMED SURFACE. PROVIDE MAXIMUM 2% WASH AT EXTERIOR LOCATIONS.
 - FOR RAILING DETAILS, SEE G-7.02 AND G-7.03.
 - THE STAIRS SHALL BE PAID FOR ON THE UNIT PRICE BID PER CUBIC YARD FOR MIX NO.2 CONCRETE IN PLACE OR ON A LUMP SUM BID FOR EACH "CONCRETE STAIRS", COMPLETE IN PLACE.



Howard County, Maryland
Department of Public Works

Concrete Stairs

Detail
G-7.01



Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

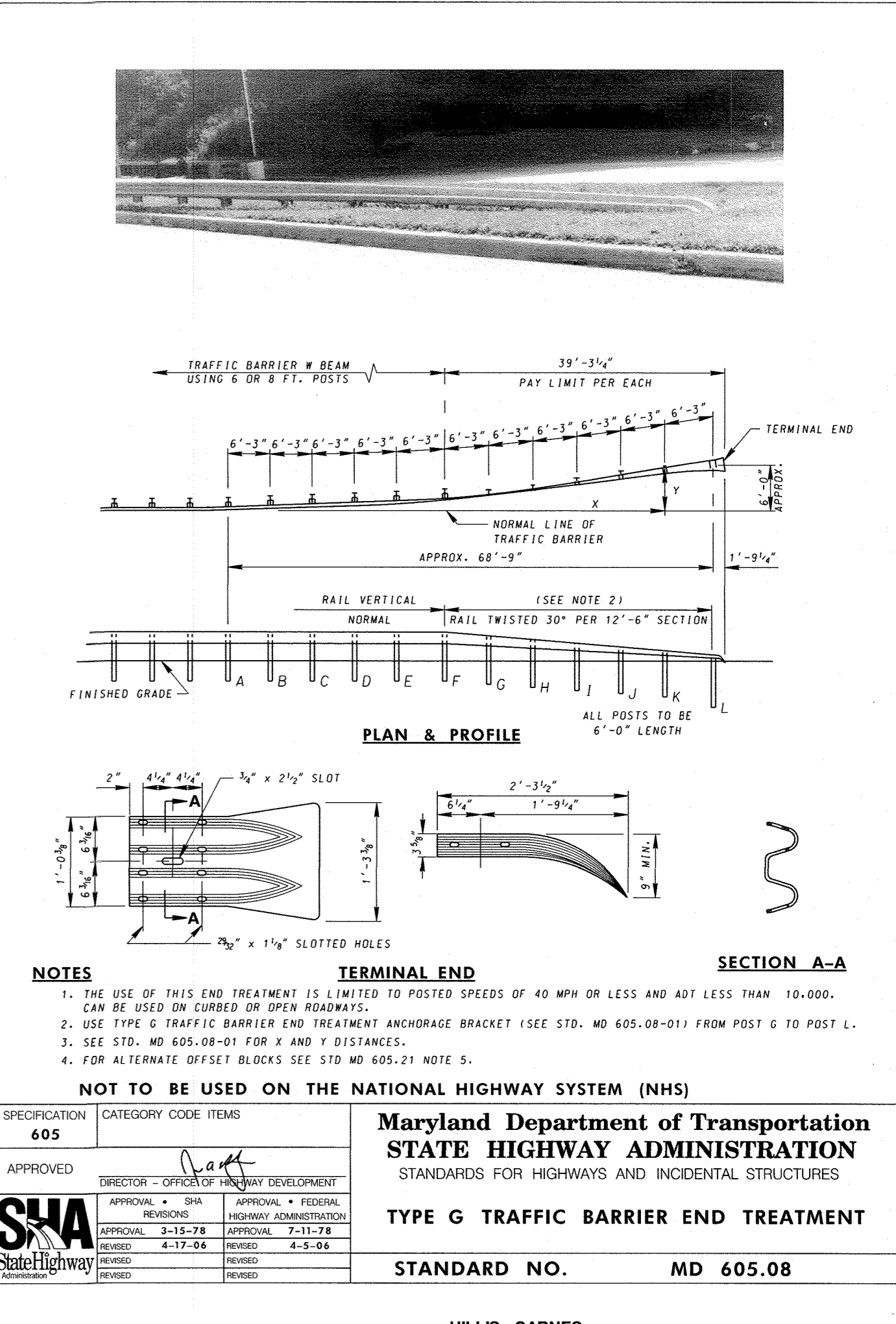
TRAFFIC BARRIER W BEAM END SECTIONS

STANDARD NO. MD 605.20

OR APPROVED EQUAL

HILLIS - GARNES
ENGINEERING ASSOCIATES, INC.
RECORD OF SOIL EXPLORATION

Elevation/Depth	SOIL SYMBOLS/ SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Rec. N/M/S	SPT Blows	SPT Blows/Foot
380	D	Topsoil-1"			4-4.5	9
375	D	18"	No groundwater encountered while drilling		4-6.7	13
370	D	18"			7-7.9	16
365	D	18"			9-11-13	24
360	D	18"			17-22-26	48
355	D	18"			8-13-50.5"	100+
350	D	Bottom of Boring at 14.9'				



Elevation/Depth	SOIL SYMBOLS/ SAMPLE CONDITIONS	Description	Boring and Sampling Notes	Rec. N/M/S	SPT Blows	SPT Blows/Foot
380	D	Topsoil-1"			1-1-1	2
375	D	18"	No groundwater encountered while drilling		2-1-2	3
370	D	4"			6-5-6	11
365	D	4"	Brown to tan, moist, very dense to dense, micaceous silty sand, some rock fragments (SM)		50.5"	100+
360	D	18"			18-14-19	33
355	D	18"			27-40-26	66
350	D	18"			18-17-23	40

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: *[Signature]* 4/1/2020
Date: 4/1/2020

Chief, Development Engineering Division: *[Signature]* 3/30/20
Date: 3/30/20

Director, Department of Planning and Zoning: *[Signature]* 4/3/2020
Date: 4/3/2020

PROJECT: CENTRAL FLEET
SECTION: -
PARCEL NOs.: 052

FLAT: 21799-21903
BLOCK NO.: 6
ZONE: POR-MXD
TAX/ZONE: 24
ELEC. DIST.: SECOND
CENSUS TR.: 6051.02

PREVIOUS HOWARD COUNTY FILES:
F-03-021, 50P-03-026, ECP-11-052, 26 1093M, WP-12-087, PB CASE NO. 391.
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[Signature]
NAME: *[Name]* DATE: 2/18/20

OWNER/DEVELOPER

HOWARD COUNTY
3430 COURT HOUSE DRIVE
ELICOTT CITY, MARYLAND 21043
ATTN: MR. RICHARD LEE
410-313-7548

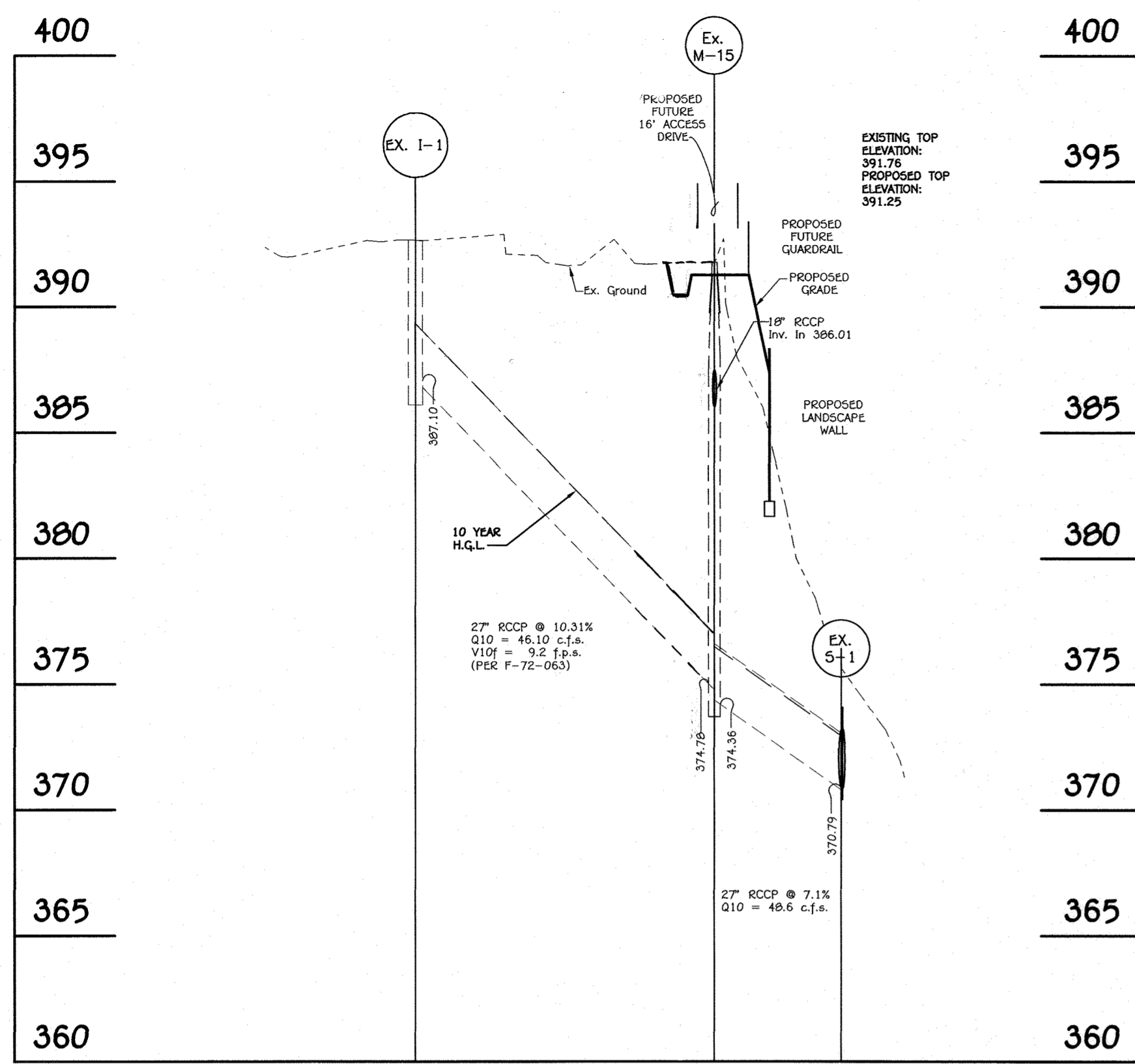
REVISION	DATE

NOTES AND DETAILS

**CENTRAL FLEET
CAPITAL PROJECT C0317
VEHICLE STORAGE LOT
PARCELS 'A' AND 'E'
ZONED: POR-MXD-6**

TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 052
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: FEBRUARY, 2020

SHEET 8 OF 10
50P-19-062

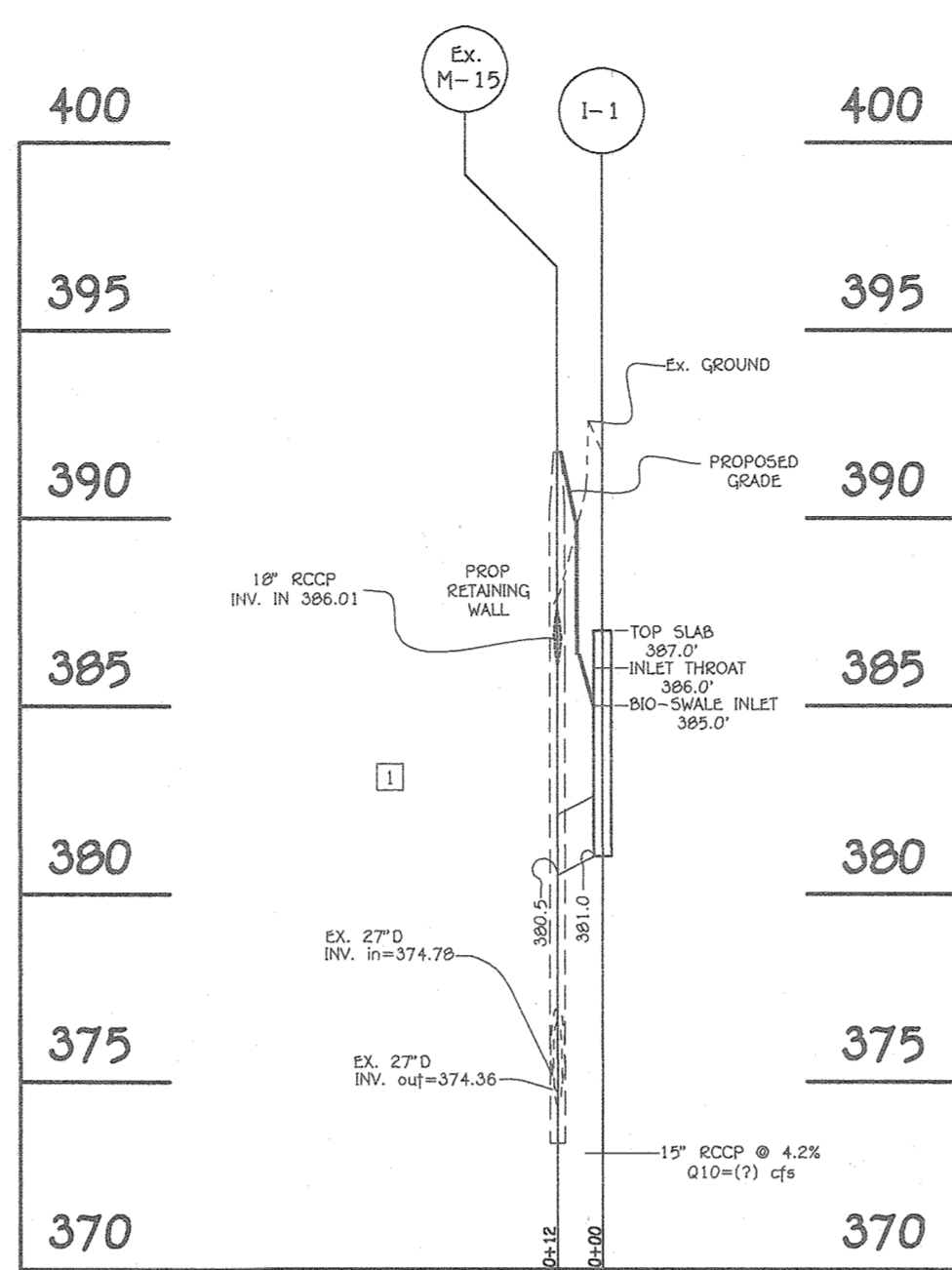


PROFILE STORM DRAIN 1
SCALE HORZ. 1" = 50'
VERT. 1" = 5'

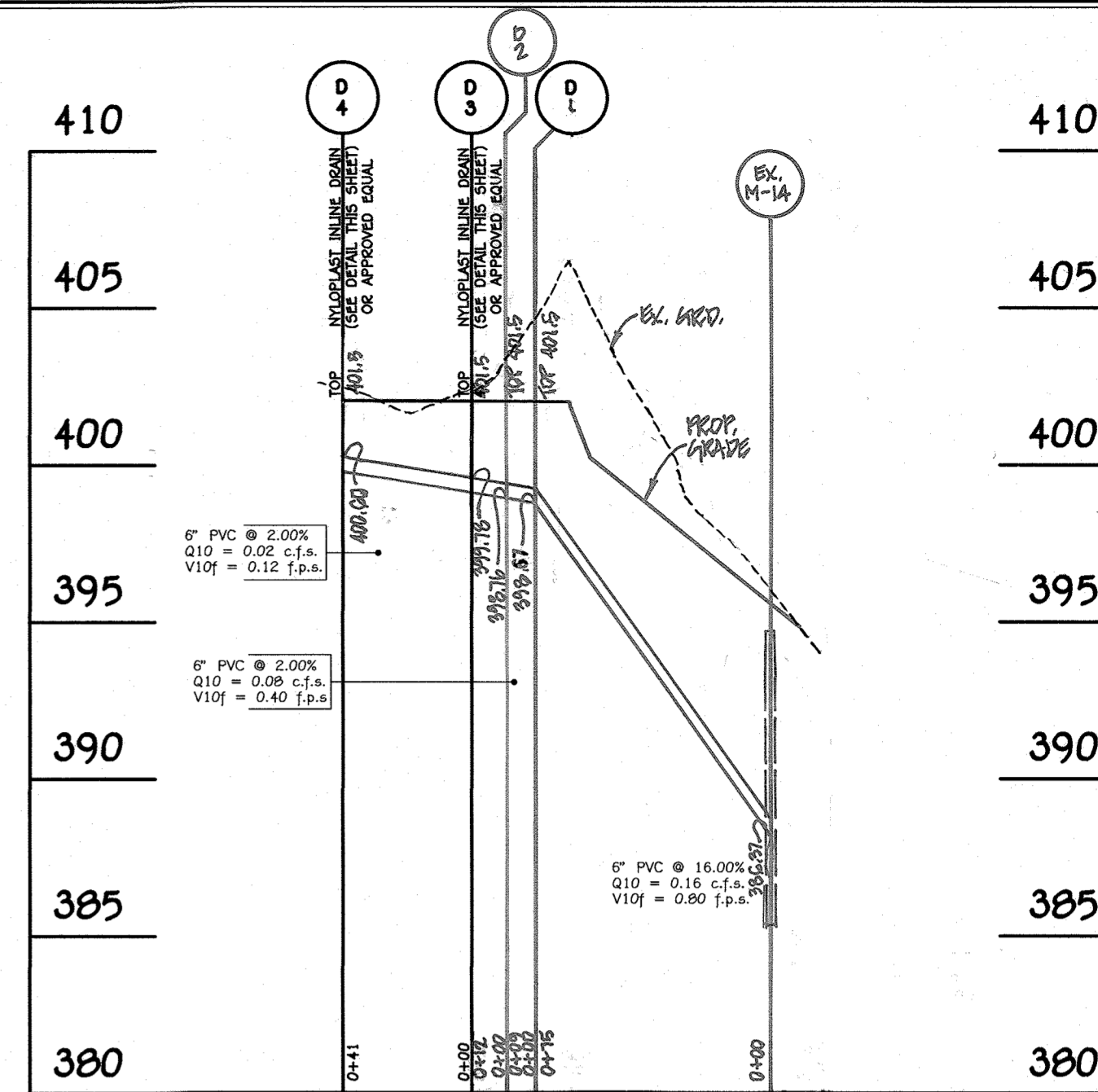
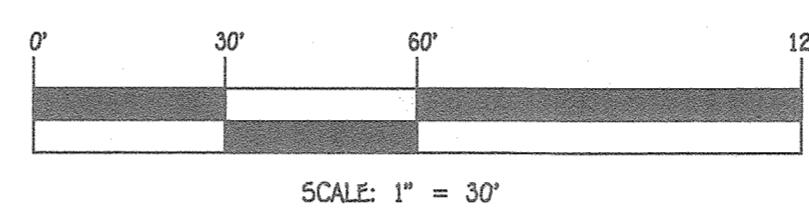
STRUCTURE SCHEDULE						
STRUCTURE NO.	OWNERSHIP AND MAINTENANCE	TOP ELEVATION	INV IN	INV OUT	LOCATION	TYPE
** 1-1	PUBLICLY OWNED AND MAINTAINED	390.43	387.35 4" PVC	375.94	N 587452.48 E 1365303.61	'D' INLET
** 1-2	PUBLICLY OWNED AND MAINTAINED	398.00	388.76	388.76	N 587621.72 E 1365272.42	'D' INLET

** DENOTES THROAT OPENING

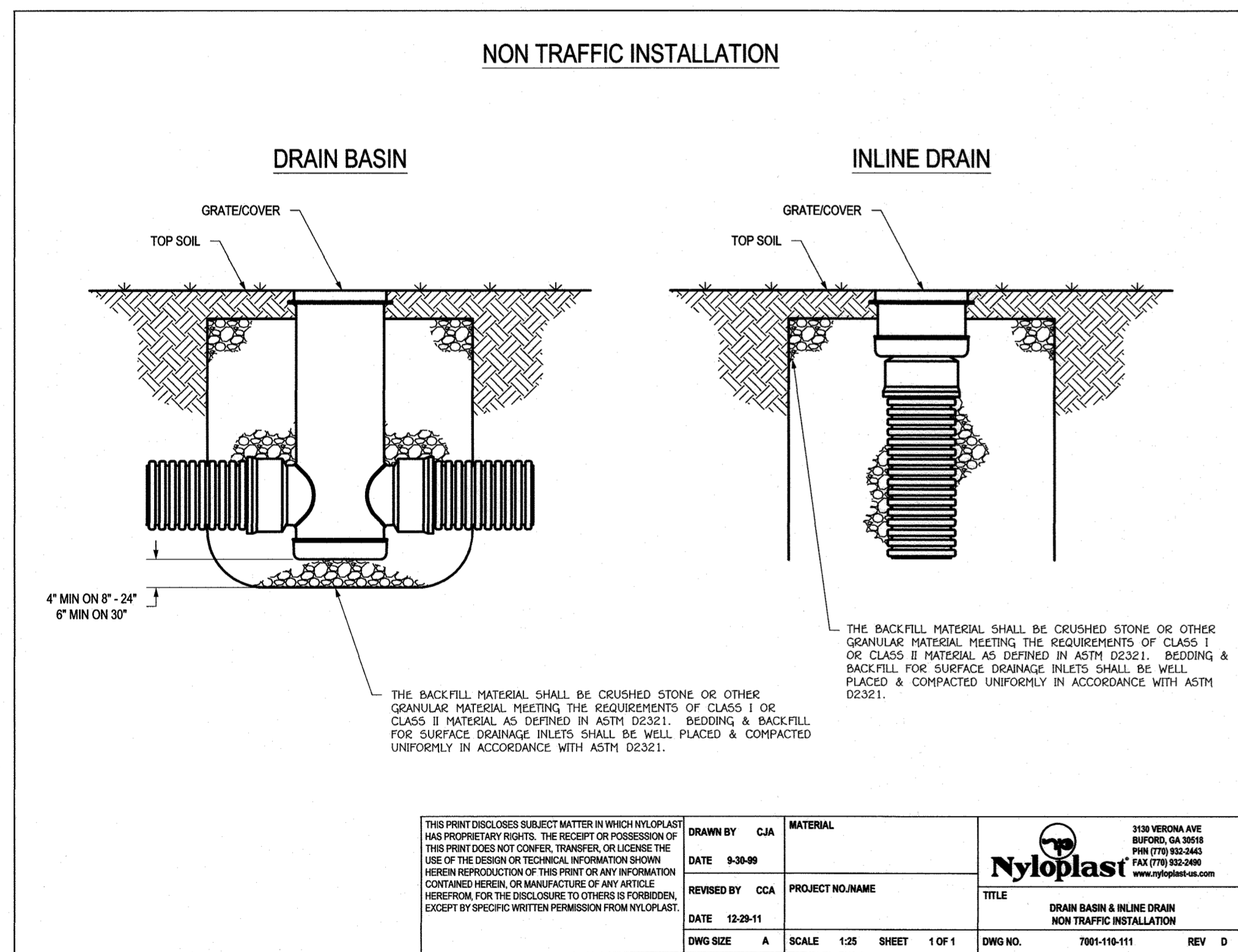
PIPE SCHEDULE		
SIZE	CLASS	LENGTH
6"	PERFORATED PVC, SCH.40	294 L.F.
6"	PVC, SCH.40	150 L.F.
4"	PERFORATED PVC, SCH.40	70 L.F.



PROFILE EX. 15 TO 11
SCALE HORZ. 1" = 50'
VERT. 1" = 5'



PROFILE ALIGNMENT NYLOPLAST
SCALE HORZ. 1" = 50'
VERT. 1" = 5'



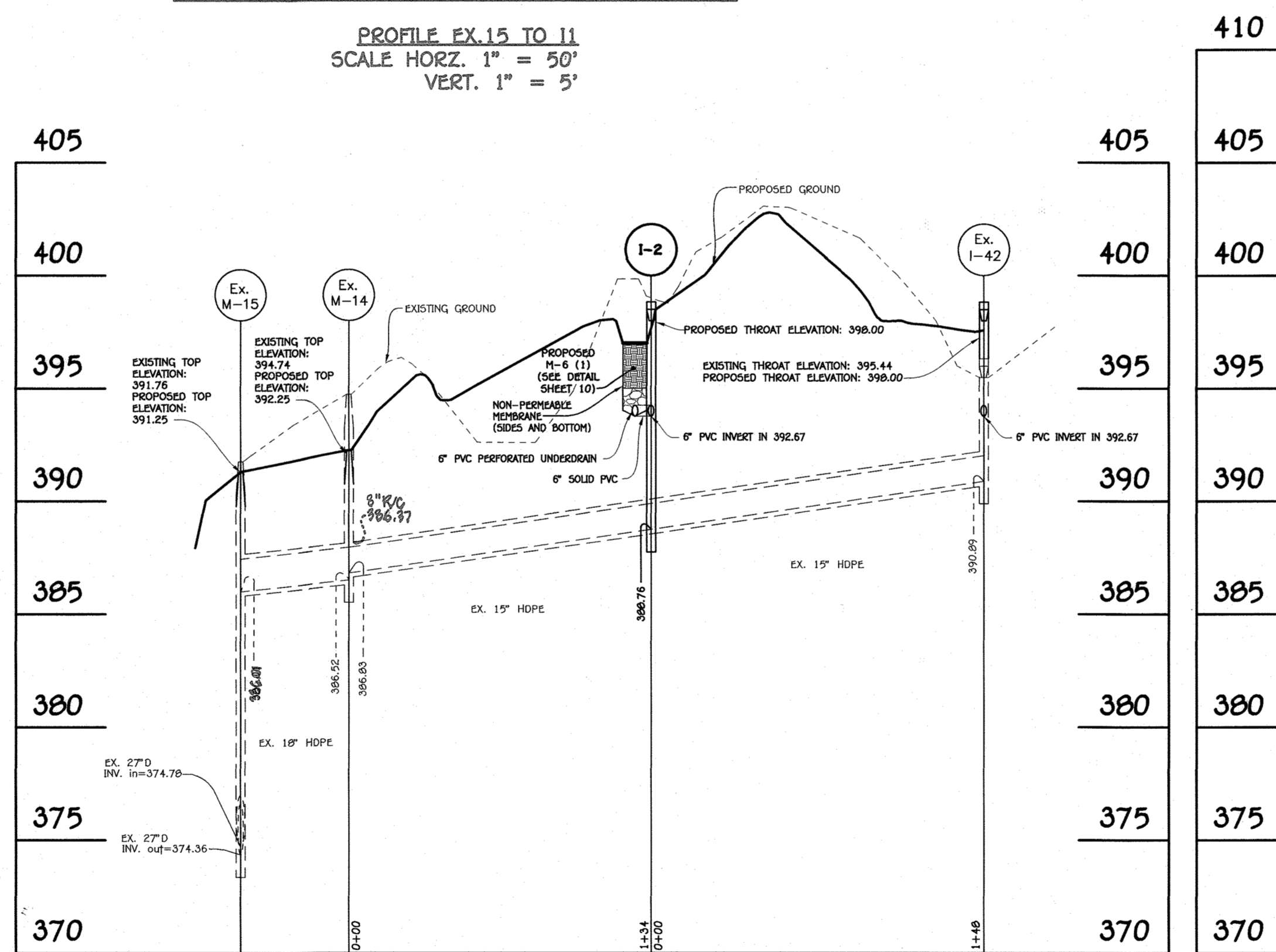
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I OR CLASS II MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE WELL PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN OR MANUFACTURE OF ANY ARTICLE HEREFROM FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

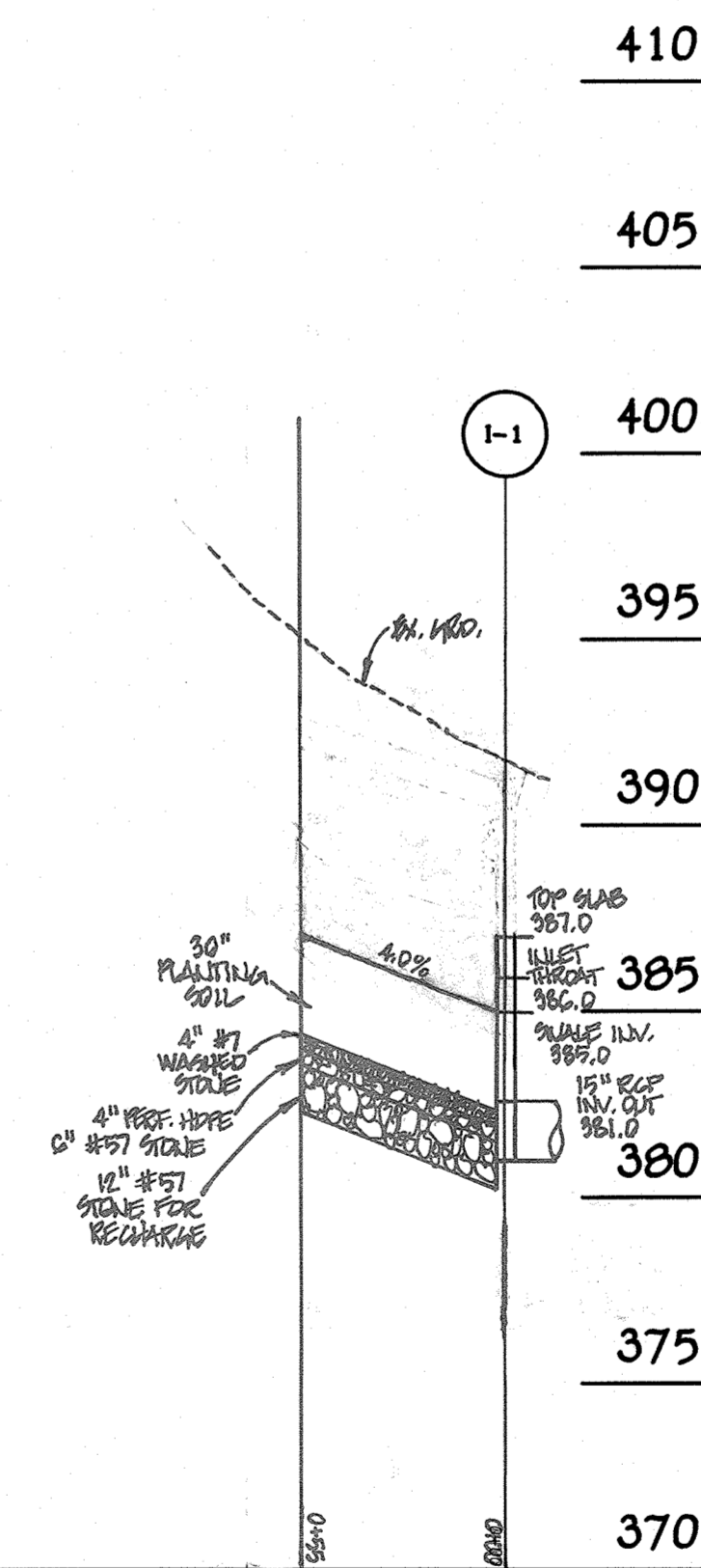
DRAWN BY: CIA
 DATE: 9-30-09
 REVISIONS BY: CCA
 DATE: 12-29-11
 DWG SIZE: A
 SCALE: 1/2" = 1'-0"
 SHEET: 1 OF 1
 DWG NO.: 7001-110-111
 REV: D

Nyloplast
3130 VERONA AVE
DUNEDIN, GA 30115
PH: (770) 952-2442
WWW.NYLOPLAST.COM

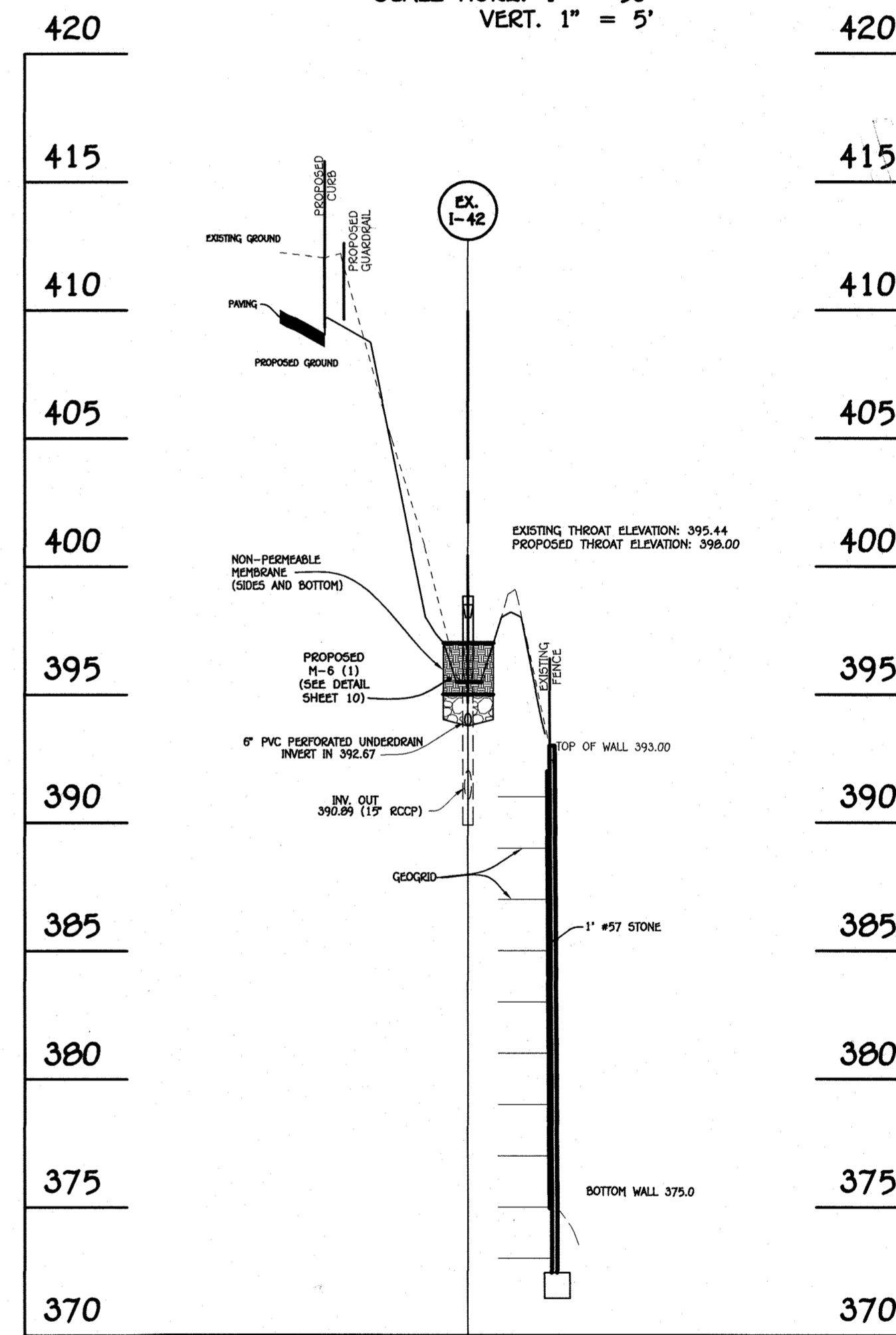
PROJECT NO: NAME
TITLE: DRAIN BASIN & INLINE DRAIN NON TRAFFIC INSTALLATION



PROFILE
SCALE: 1" = 50' HOR.
1" = 5' VERT.



PROFILE BIO-SWALE
SCALE HORZ. 1" = 50'
VERT. 1" = 5'



PROFILE ALIGNMENT WALL GUARDRAIL & BIO
SCALE HORZ. 1" = 50'
VERT. 1" = 5'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: *[Signature]* Date: 4/1/2020
 Director, Department of Planning and Zoning: *[Signature]* Date: 4-3-2020



PROFESSIONAL CERTIFICATION
 "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, 7/14/21."

[Signature]
 NAME: *[Name]* DATE: 2/18/20

OWNER/DEVELOPER

HOWARD COUNTY
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MARYLAND 21043
 ATTN: MR. RICHARD LEE
 410-313-7548

STORMDRAIN PROFILES

CENTRAL FLEET
 CAPITAL PROJECT C0317
 VEHICLE STORAGE LOT
 PARCELS 'A' AND 'E'
 ZONED: POR-MXD-6

TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 052
 SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: FEBRUARY, 2020
 SHEET 9 OF 10

PROJECT	SECTION	PARCEL No.			
CENTRAL FLEET		052			
PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
21798-21803	6	POR-MXD-6	24	SECOND	6051.02

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SOURCE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995

REVISION	DATE
1 REVISE PROFILES	9/9/21

Infiltration and Filter System Construction Specifications

Infiltration and filter systems either take advantage of existing permeable soils or create a permeable medium such as sand for WC, and Re v. In some instances where permeability is great, these facilities may be used for Qp as well. The most common systems include infiltration trenches, infiltration basins, and filters, and organic filters. When properly planted, vegetation will thrive and enhance the functioning of these systems. For example, pre-treatment buffers will trap sediments that often are bound with phosphorous and metals. Vegetation planted in the facility will aid in nutrient uptake and water storage. Additionally, plant roots will provide aeration for stormwater to permeate soil for groundwater recharge. Finally, successful plantings provide aesthetic value and wildlife habitat making these facilities more desirable to the public.

Design Constraints:

- > Planting buffer strips of at least 20 feet will cause sediments to settle out before reaching the facility, thereby reducing the possibility of clogging.
- > Determine areas that will be saturated with water and water table depth so that appropriate plants may be selected (hydrology will be similar to bioretention facilities, see figure A.5 and Table A.4 for planting material guidance).
- > Plants known to send down deep roots should be avoided in systems where filter fabric is used as part of facility design.
- > Test soil conditions to determine if soil amendments are necessary.
- > Plants shall be located so that access is possible for structure maintenance.
- > Stabilize heavy flow areas with erosion control mats or soil.
- > Temporarily divert flows from seeded areas until vegetation is established.
- > See Table A.5 for additional design considerations.

Bio-retention

Soil Bed Characteristics

The characteristics of the bioretention facility are perhaps as important as the location, size, and treatment volume. The soil must be permeable enough to allow runoff to filter through the media, while having characteristics suitable to promote and sustain a robust vegetative cover crop. In addition, much of the nutrient pollutant uptake (nitrogen and phosphorus) is accomplished through absorption and microbial activity within the soil profile. Therefore, soils must balance their chemical and physical properties to support biotic communities above and below ground.

The planting soil should be a sandy loam, loamy sand, loam (USDA), or a loam/sand mix (should contain a minimum 35 to 60% sand, by volume). The clay content for these soils should be less than 25% by volume (Environmental Quality Resources (EQR), 1996; Engineering Technology Inc. and Biohabitats, Inc. (ETAB), 1993). Soils should fall within the SP, ML, SC classifications of the Unified Soil Classification System (USCS). A permeability of at least 1.0 feet per day (0.5"/hr) is required (a conservative value of 0.5 feet per day is used for design). The soil should be free of stones, stumps, roots, or other woody material over 1" in diameter. Brush or seeds from noxious weeds (e.g., Johnson Grass, Mugwort, Nutsedge, and Canada Thistle or other noxious weeds as specified under COMAR 15.08.01.05) should not be present in the soils. Placement of the planting soil should be in 12 to 18 lifts that are loosely compacted (tamped lightly with a backhoe bucket or traversed by dozer tracks). The specific characteristics are presented in Table A.3.

Table A.3 Planting Soil Characteristics

Parameter	Value
pH range	5.2 to 7.00
Organic matter	1.5 to 4.0% (by weight)
Magnesium	35 lbs. per acre, minimum
Phosphorus (phosphate - P205)	75 lbs. per acre, minimum
Potassium (potash - K2O)	85 lbs. per acre, minimum
Soluble salts	500 ppm
Clay	10 to 25 %
Silt	30 to 55 %
Sand	35 to 60%

Mulch Layer

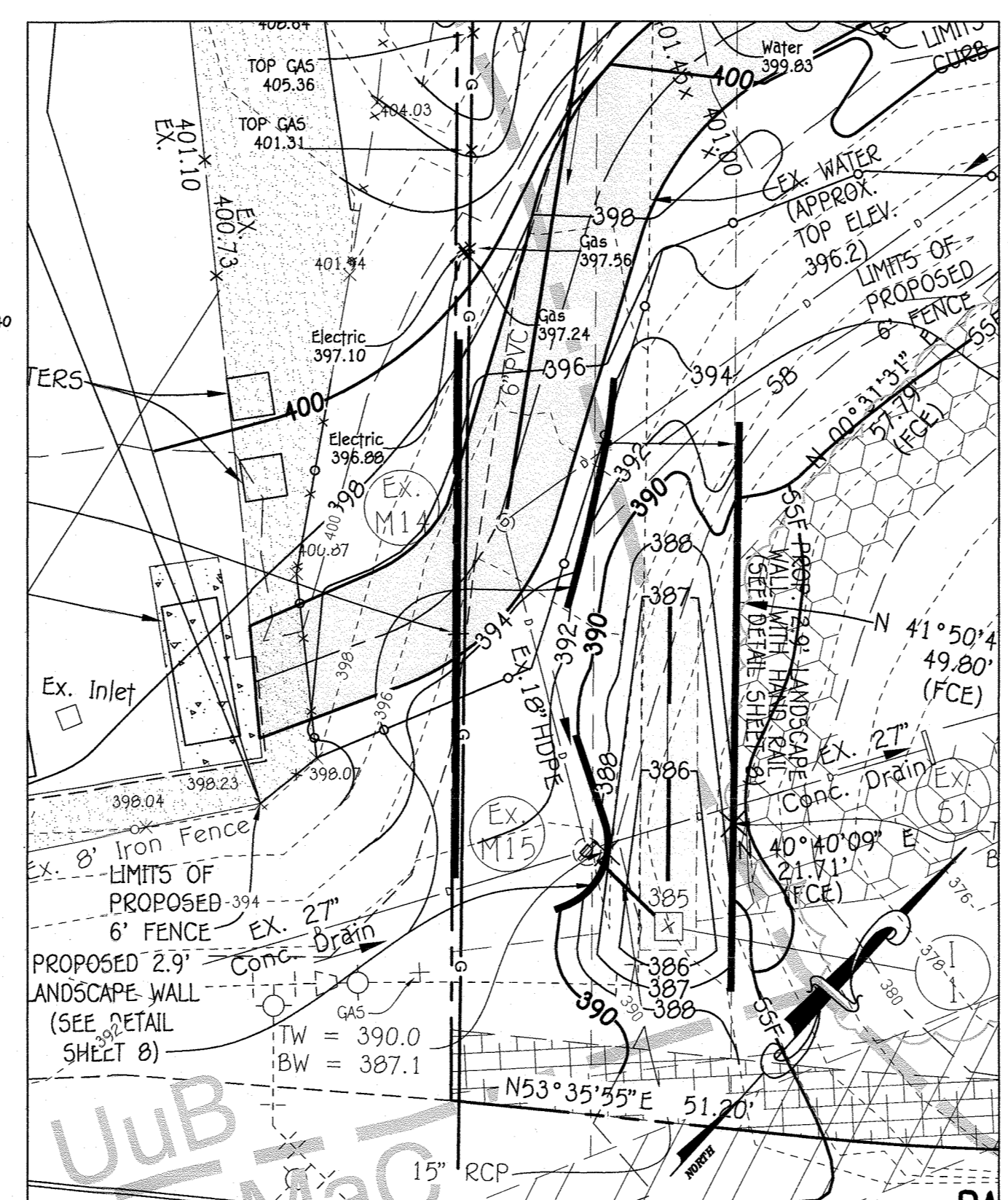
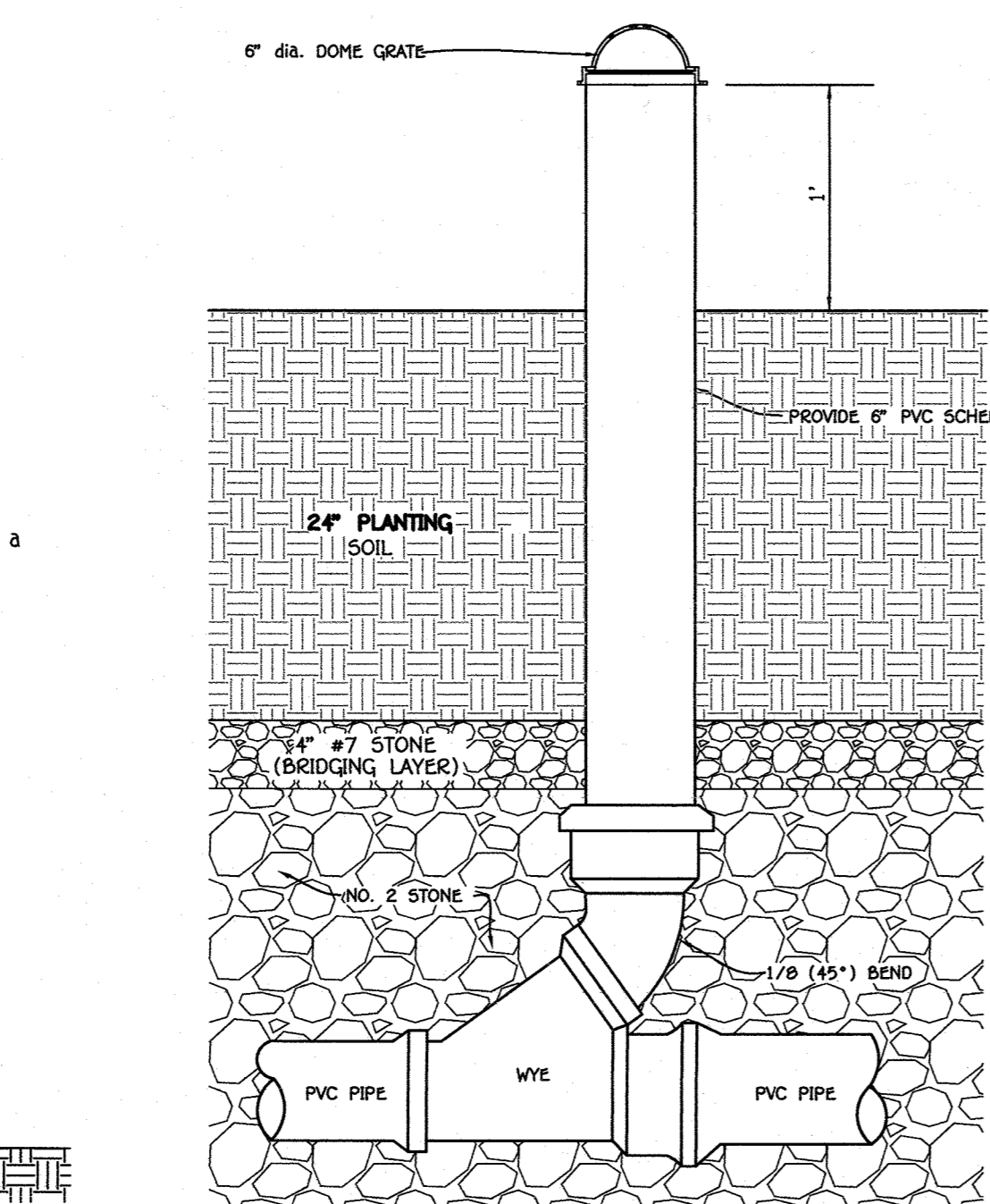
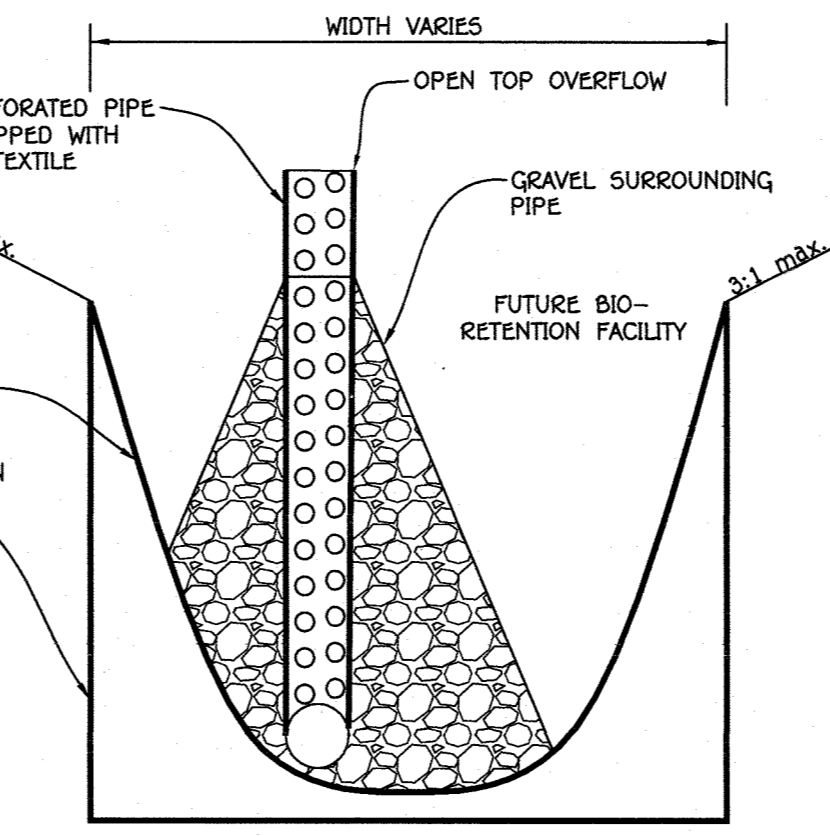
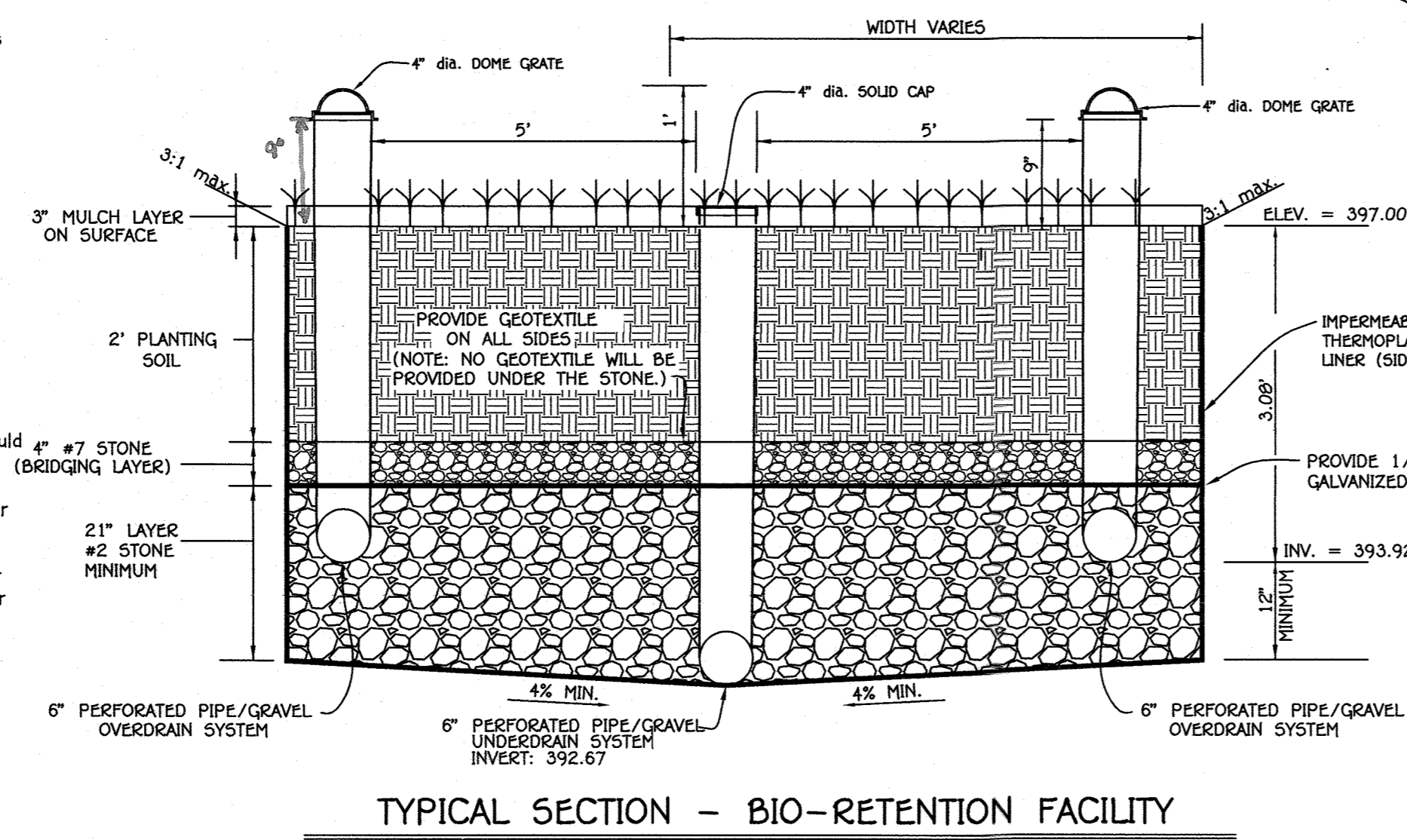
The mulch layer plays an important role in the performance of the bioretention system. The mulch layer helps maintain soil moisture and avoids surface sealing, which reduces permeability. Mulch helps prevent erosion, and provides a microenvironment suitable for soil biota at the mulch/soil interface. It also serves as a pretreatment layer, trapping the finer sediments, which remain suspended after the primary pretreatment. The mulch layer should be standard landscape style, single or double shredded hardwood mulch or chips. The mulch layer should be well aged (stockpiled or stored for at least 12 months), uniform in color, and free of other materials, such as weed seeds, soil, roots, etc. The mulch should be applied to a maximum depth of three inches. Grass clippings should not be used as a mulch material.

Planting Guidance

Plant material selection should be based on the goal of simulating a terrestrial forested community of native species. Bioretention simulates an upland-species ecosystem. The community should be dominated by trees, but have a distinct community of understory trees, shrubs and herbaceous materials. By creating a diverse, dense plant cover, a bioretention facility will be able to treat stormwater runoff and withstand urban stresses from insects, disease, drought, temperature, wind, and exposure. The proper selection and installation of plant materials is key to a successful system. There are essentially three zones within a bioretention facility (Figure A.5). The lowest elevation supports plant species adapted to standing and fluctuating water levels. The middle elevation supports plants that like drier soil conditions, but can still tolerate occasional inundation by water. The outer edge is the highest elevation and generally supports plants adapted to drier conditions. A sample of appropriate plant materials for bioretention facilities are included in Table A.4. The layout of plant material should be flexible, but should follow the general principals described in Table A.5. The objective is to have a system, which resembles a random, and natural plant layout, while maintaining optimal conditions for plant establishment and growth. For a more extensive bioretention plan, consult ETAB, 1993 or Clayton and Schueler, 1997.

OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (M-6) AND (F-6)

1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDER BEYOND TREATMENT. TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE EXCESSIVE MULCH LAYER BEFORE APPLYING NEW LAYERS ONCE EVERY 2 TO 3 YEARS.
4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.



B.4.C Specifications for Micro-Bioretention, Rain Gardens, Landscape Infiltration & Infiltration Berms

1. Material Specifications: The allowable materials to be used in these practices are detailed in Table B.4.1.
2. Filtering Media or Planting Soil: The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the micro-bioretention practice that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of Bermuda grass, Quackgrass, Johnson grass, or other noxious weeds as specified under COMAR 15.08.01.05.

The planting soil shall be tested and shall meet the following criteria:
 Soil Component - Loamy Sand or Sandy Loam (USDA Soil Textural Classification)
 Organic Content - Minimum 10% by dry weight (ASTM D 2974). In general, this can be met with a mixture of loamy sand (60%-65%) and compost (35% to 40%) or sandy loam (30%), coarse sand (30%), and compost (40%).
 Clay Content - Media shall have a clay content of less than 5%.
 pH Range should be between 5.5 - 7.0. Amendments (e.g., lime, iron sulfate plus sulfur) may be mixed into the soil to increase or decrease pH. There shall be at least one soil test per project. Each test shall consist of both the standard soil test for pH, and additional tests of organic matter, and soluble salts. A textural analysis is required from the site stockpiled topsoil. If topsoil is imported, then a texture analysis shall be performed for each location where the topsoil was excavated.
 3. Compaction: It is very important to minimize compaction of both the base of bioretention practices and the required backfill. When possible, use excavation hoses to remove original soil. If practices are excavated using a loader, the contractor should use wide track or marsh track equipment, or light equipment with turf type tires. Use of equipment with narrow tracks or narrow tires, rubber tires with large lugs, or high-pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

Compaction can be alleviated at the base of the bioretention facility by using a primary filling operation such as a chisel plow, ripper, or subsoiler. These filling operations are to restructure the soil profile through the 12 inch compaction zone. Substitute methods must be approved by the engineer. Rototillers typically do not till deep enough to reduce the effects of compaction from heavy equipment.
 Rototill 2 to 3 inches of sand into the base of the bioretention facility before backfilling the optional sand layer. Pump any ponded water before preparing (rototilling) base.

When backfilling the topsoil over the sand layer, first place 3 to 4 inches of topsoil over the sand, then rototill the sand/topsoil to create a gradation zone. Backfill the remainder of the topsoil to final grade.

When backfilling the bioretention facility, place soil in lifts 12" to 16". Do not use heavy equipment within the bioretention basin. Heavy equipment can be used around the perimeter of the basin to supply soils and sand. Grade bioretention materials with light equipment such as a compact loader or a dozer/loader with marsh tracks.

4. Plant Material: Recommended plant material for micro-bioretention practices can be found in Appendix A, Section A.2.5.

5. Plant Installation: Compost is a better organic material source, is less likely to float, and should be placed in the invert and other low areas. Mulch should be placed in surrounding to a uniform thickness of 2" to 3". Shredded or chipped hardwood mulch is the only accepted mulch. Fine mulch and wood chips will float and move to the perimeter of the bioretention area during a storm event and are not acceptable. Shredded mulch must be well aged (6 to 12 months) for acceptance.

Rootstock of the plant material shall be kept moist during transport and on-site storage. The plant root ball should be planted so 1/8 th of the ball is above final grade surface. The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball. Set and maintain the plant straight during the entire planting process. Thoroughly water ground bed cover after installation.

Trees shall be braced using 2" by 2" stakes only as necessary and for the first growing season only. Stakes are to be equally spaced on the outside of the tree ball.
 Grasses and legume seeds should be drilled into the soil to a depth of at least one inch. Grass and legume plugs shall be planted following the non-grass ground cover planting specifications.

6. Underdrains: Underdrains must meet the following criteria:
 Pipe - should be 4" to diameter, slotted or perforated rigid plastic pipe (ASTM F 750, Type PS 26, or AASHTO-M-278) in a gravel layer. The preferred material is slotted, 4 rigid pipe (e.g., PVC or HDPE).
 Perforations - If perforated pipe is used, perforations should be 3/8" diameter located 6" on center with a minimum of four holes per row. Pipe shall be wrapped with a 1/4"(10.4 or 4x4) galvanized hardware cloth.
 Gravel - The gravel layer(10.57 stone preferred) shall be at least 3" thick above and below the underdrain.
 The main collector pipe shall be at a minimum 0.5% slope.
 A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.

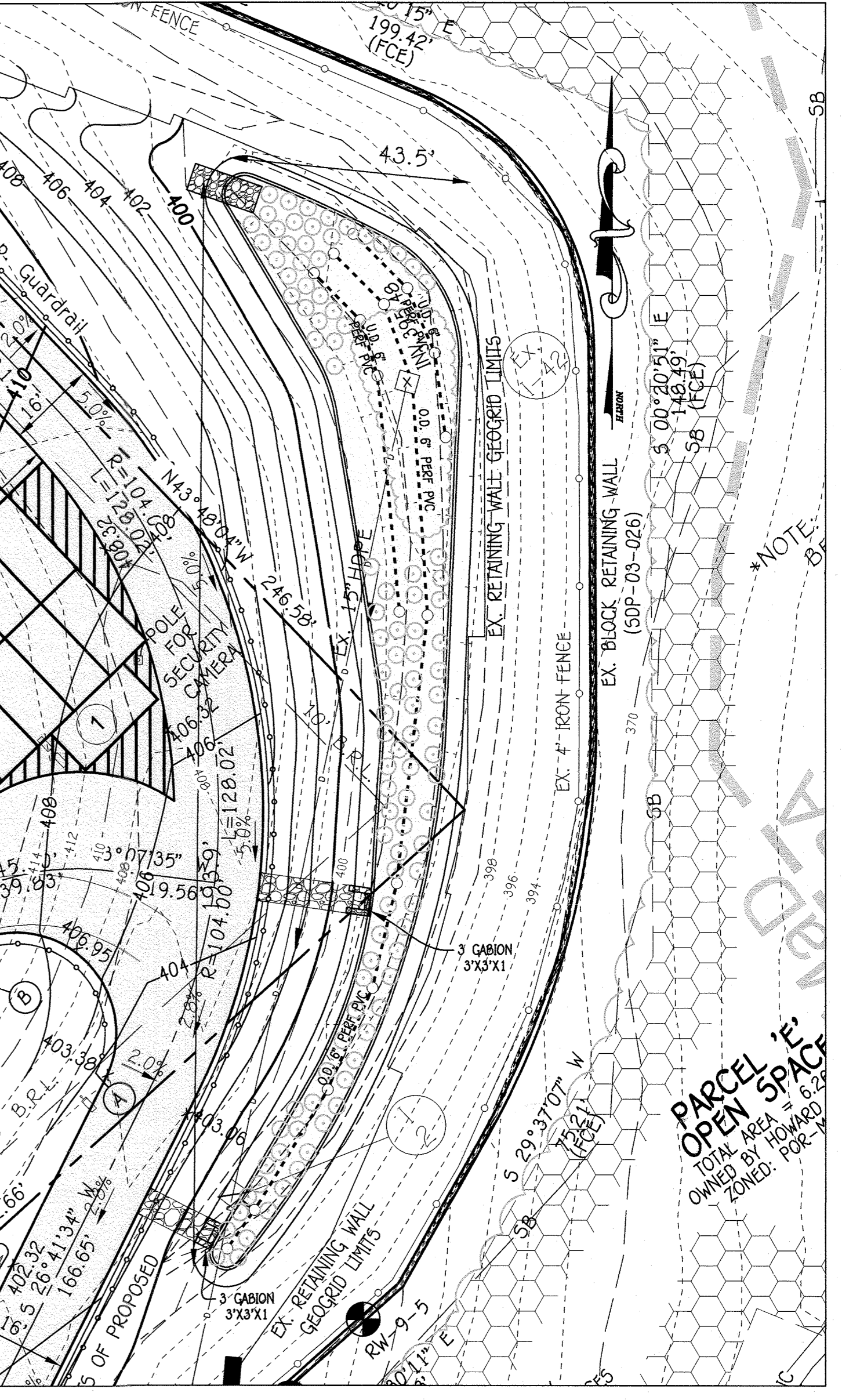
A 4" layer of pea gravel (1/4" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".
 The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1,000 square feet of surface area).

7. Miscellaneous: These practices may not be constructed until all contributing drainage area has been stabilized.

Gravel - The gravel layer(10.57 stone preferred) shall be at least 3" thick above and below the underdrain.
 The main collector pipe shall be at a minimum 0.5% slope.
 A rigid, non-perforated observation well must be provided (one per every 1,000 square feet) to provide a clean-out port and monitor performance of the filter.

A 4" layer of pea gravel (1/4" to 3/8" stone) shall be located between the filter media and underdrain to prevent migration of fines into the underdrain. This layer may be considered part of the filter bed when bed thickness exceeds 24".
 The main collector pipe for underdrain systems shall be constructed at a minimum slope of 0.5%. Observation wells and/or clean-out pipes must be provided (one minimum per every 1,000 square feet of surface area).

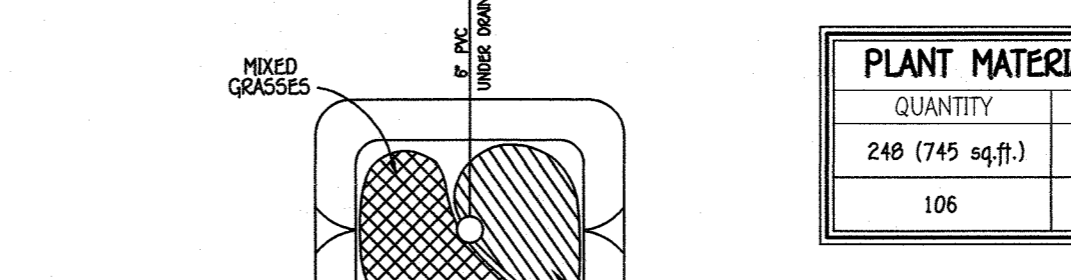
7. Miscellaneous: These practices may not be constructed until all contributing drainage area has been stabilized.



PLANT MATERIAL- BIO-RETENTION M-6 (1)

QUANTITY	NAME	MAXIMUM SPACING (FT.)
240 (745 sq.ft.)	GRASSES	36" o.c.
106	SHRUBS	36"-40" o.c.

- SHRUBS**
- BAYBERRY
 - SPECIERSH
 - SPICEBUSH
 - WINTERBERRY
 - INKBERRY
 - WITCH HAZEL
 - BUTTERNUT
 - BUCKLEYE
 - BOTTLEBRUSH
 - BUCKLEYE
- ANY OF THE SHRUBS LISTED MAY BE USED
- GRASS**
- SWITCHGRASS
 - HEAVY METAL SWITCHGRASS
- ANY OF THE GRASS LISTED MAY BE USED



PROPOSED M-8 (1)

SCALE: 1" = 20'

ELEVATION VARIES

PLANTING DETAIL

STORMWATER MANAGEMENT NOTES

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL EFFECTIVE MAY 4, 2010.
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
3. DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75 FT. 5% THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
4. FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

SWM NOTES & DETAILS

CENTRAL FLEET CAPITAL PROJECT C0317 VEHICLE STORAGE LOT PARCELS 'A' AND 'E'

ZONED: POR-MXD-6

TAX MAP NO.: 24 GRID NO.: 6 PARCEL NO.: 052

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN DATE: FEBRUARY, 2020

SHEET 10 OF 10

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/2/21 Date
 Chief, Division of Land Development

[Signature] 12/2/21 Date
 Director - Department of Planning and Zoning

[Signature] 11/16/21 Date
 Chief, Development Engineering Division

PROJECT	SECTION	PARCEL NOs.
CENTRAL FLEET		052

PLAT	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
21798-21803	6	POR-MXD-6	24	SECOND	6051.02

PREVIOUS HOWARD COUNTY FILES:
 F-03-021, S0P-03-026, ECP-11-052, ZB 1093M, WP-12-087, PB CASE NO. 391, F-12-014, S-12-001 & ECP-19-044

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 10021 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21114
 (410) 461-2895



PROFESSIONAL CERTIFICATION

"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, 7/14/23.

[Signature] 12/1/21 DATE
 NAME

OWNER/DEVELOPER

HOWARD COUNTY
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MARYLAND 21043
 ATTN: MR. RICHARD LEE
 410-313-7548

REVISION	DATE
1 ADD EXIST. POINTS, REVISE GRADING, LOD & SWM	7/2021