

SHEET INDEX

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2	ROAD PROFILE AND TYPICAL SECTION
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5	SOIL & DRAINAGE AREA MAP AND STORM DRAIN PROFILES
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7	SWM PLAN AND DETAILS

FINAL ROAD CONSTRUCTION PLAN

SOMERVILLE ESTATES

LOTS 1 THRU 7, AND OPEN SPACE LOTS 8-10

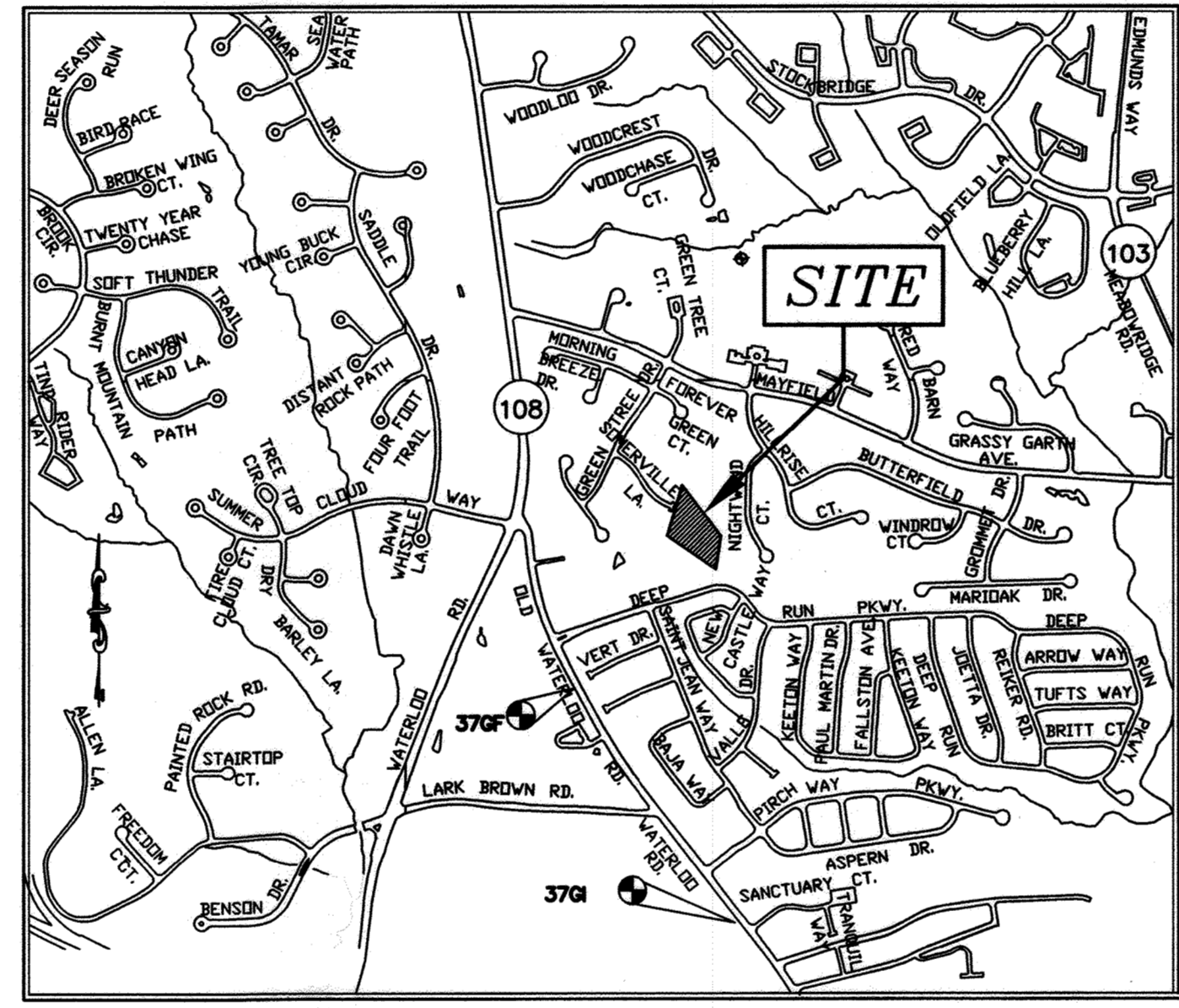
FIRST ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

MINIMUM LOT SIZE CHART			
LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
2	6,680 SQ. FT.	344 SQ.FT.	6,336 SQ. FT.
3	6,587 SQ. FT.	555 SQ.FT.	6,032 SQ. FT.
4	7,021 SQ. FT.	762 SQ.FT.	6,259 SQ. FT.
5	7,302 SQ. FT.	709 SQ.FT.	6,593 SQ. FT.
6	8,022 SQ. FT.	370 SQ.FT.	7,652 SQ. FT.
O/S 9	5,959 SQ. FT.	338 SQ.FT.	5,621 SQ. FT.
O/S 10	12,925 SQ. FT.	911 SQ.FT.	12,014 SQ. FT.

LEGEND

- LOD LIMIT OF DISTURBANCE
- PR. STORM DRAIN PIPE
- PR. STORM DRAIN INLET
- EARTH DIKE
- SUPER SILT FENCE
- DIVERSION FENCE
- TEMPORARY SWALE
- PROPOSED PAVEMENT



VICINITY MAP
SCALE: 1"=1000'

GENERAL NOTES:

- THIS SUBJECT PROPERTY IS ZONED R-SC PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
- TOPOGRAPHY WITHIN 200' OF SITE BOUNDARY SHOWN HEREON IS BASED ON FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS, PERFORMED BY MILDENBERG, BOENDER & ASSOC., INC. ON OR ABOUT FEBRUARY 2016. OTHER TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS.
- BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN MONUMENTED BOUNDARY SURVEY PERFORMED ON OR ABOUT OCTOBER, 2016 BY MILDENBERG, BOENDER & ASSOC INC.
- COORDINATES BASED ON NAD '83 (HORIZONTAL) AND NAVD '88 (VERTICAL) MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS
STA. No. 3761 N 553,697.236 E 1,372,015.045 ELEV. 292.995
STA. No. 376F N 555,222.147 E 1,370,948.649 ELEV. 330.872
- PROJECT BACKGROUND:**
ADDRESS: 8126 FOREVER GREEN CT. ELKRDGE, MD 21075
LOCATION: TAX MAP - 37 PARCEL: 532 GRID: 14
ELECTION DISTRICT: FIRST
DEED REFERENCE :17307/002
PREVIOUS PROJECT NUMBERS: ECP-17-031, SP-17-011, WP-18-024
- SITE AREA TABULATION**
TOTAL AREA: 1.95 AC±
AREA OF 100 YEAR FLOODPLAIN: 0.0 AC±
TOTAL NET AREA: 1.95 AC±
MINIMUM LOT SIZE PROPOSED: 6,000 S.F.
NUMBER OF BUILDABLE LOTS: 7
NUMBER OF OPEN SPACE LOTS: 3
TYPE OF PROPOSED UNIT: SFD
AREA OF BUILDABLE LOTS 1.19 AC±
AREA OF ROAD ROW: 0.16 AC±
AREA OF ROAD DEDICATION: 0.16 AC±
AREA OF OPEN SPACE REQUIRED: (25%) 0.49 AC±
AREA OF OPEN SPACE PROVIDED (CREDITED): (29.6%) 0.58 AC±
AREA OF OPEN SPACE (NON-CREDITED): 1,255 S.F. 0.03 AC± (PIPESTEMS AREA)
EXISTING WATER AND SEWER CONTRACT NO. 14-3588-D.
- WATER IS PUBLIC.
- SEWER IS PUBLIC.
- STORMWATER MANAGEMENT IS PROVIDED BY M-6 MICRO-BIORETENTION FACILITIES IN ACCORDANCE WITH THE 2007 MARYLAND STORMWATER DESIGN MANUAL. ALL FACILITIES WILL BE PRIVATELY OWNED AND MAINTAINED BY SOMERVILLE HOA.
- FOREST STAND DELINEATION WAS PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC. IN OCTOBER, 2016.
- NO WETLAND, STREAM OR ITS BUFFERS EXIST ON-SITE.
- NO FLOODPLAIN EXIST ON-SITE.
- NO STEEP SLOPES EXIST ON-SITE.
- NO HISTORIC STRUCTURES, CEMETERIES, OR GRAVE SITES EXIST ON-SITE.
- SITE IS NOT ADJACENT TO A DESIGNATED SCenic ROAD.
- APFO ROAD TEST WAS PROVIDED BY TRAFFIC GROUP IN JUNE 2017 UNDER SP-17-011.
- NOISE STUDY IS NOT REQUIRED.
- ALL EXISTING STRUCTURES ARE TO BE REMOVED.
- FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION WILL BE FULFILLED BY A PAYMENT OF FEE-IN-LIEU FOR 0.29 ACRES OF AFFORESTATION. FEE-IN-LIEU FOR 0.29 ACRES (12,634 SQ. FT.) OF AFFORESTATION IN THE AMOUNT OF \$ 9,475.00 WILL BE POSTED WITH THIS PLAN.
- IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, ALL LANDSCAPING REQUIREMENTS ARE PROVIDED IN A CERTIFIED LANDSCAPE PLAN WHICH IS INCLUDED WITH THIS FINAL ROAD CONSTRUCTION PLAN SET.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING (18 SHADE AND 6 EVERGREEN TREES) AND AN ADDITIONAL 4 SHADE TREES PROVIDED IN LIEU OF REMOVING 2 SPECIMEN TREES AS A CONDITION OF THE APPROVED WAIVER WP-18-024 IN THE AMOUNT OF \$7,500.00 IS TO BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT.
- PER SECTION 16.121(c) OF THE HOWARD COUNTY SUBDIVISION AND LAND USE REGULATIONS, OPEN SPACE FOR THIS SUBDIVISION HAS BEEN PROVIDED THROUGH THE CREATION OF OPEN SPACE LOTS 8-10.
- A PRE-SUBMISSION COMMUNITY MEETING FOR THIS PROJECT WAS HELD ON OCTOBER 18, 2016 AT 6:00PM AT THE ELKRDGE FIRE HALL.
- THIS DEVELOPMENT PLAN IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL 75-2003. DEVELOPMENT OR CONSTRUCTION ON LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE BUILDING / GRADING PERMIT.
- ALL LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION ARE SUBJECT TO THE MIHU FEE-IN-LIEU REQUIREMENT THAT IS TO BE CALCULATED AND PAID TO THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF BUILDING PERMIT ISSUANCE BY THE PERMIT APPLICANT.
- THE SEPTIC SYSTEM MUST BE PROPERLY ABANDONED WITH DOCUMENTATION SENT TO THE HEALTH DEPARTMENT PRIOR TO HEALTH DEPARTMENT SIGNATURE OF THE FINAL RECORD PLAT.
- A PRIVATE STREET NAME SIGN ASSEMBLY SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT 410-313-2430 FOR DETAILS AND COST ESTIMATES.
- GEOTECHNICAL REPORT WAS PROVIDED BY GEOTECHNICAL ENVIRONMENTAL TESTING CONSULTANTS, INC.
- THIS PLAN IS SUBJECT TO WP-18-024, SEEKING AN ALTERNATIVE COMPLIANCE TO SECTIONS 16.1205(a)(7) WHICH STATES THAT STATE CHAMPION TREES, TREES 75% OF THE DIAMETER OF STATE CHAMPION TREES AND TREES 30" IN DIAMETER OR LARGER SHALL BE LEFT IN AN UNDISTURBED CONDITION DURING CONSTRUCTION. THIS ALTERNATIVE COMPLIANCE WAS APPROVED ON SEPTEMBER 21, 2017, SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE APPROVAL OF THIS ALTERNATIVE COMPLIANCE REQUEST APPLIES ONLY TO THE TWO (2) SPECIMEN TREES AS SHOWN TO BE REMOVED ON THE PLAN EXHIBIT. THE REMOVAL OF ANY OTHER SPECIMEN TREE ON THE SUBJECT PROPERTY IS NOT PERMITTED UNDER THIS REQUEST UNLESS IT CAN BE SUFFICIENTLY DEMONSTRATED BY THE APPLICANT TO BE JUSTIFIED.
 - THE DEVELOPER SHALL PLANT FOUR (4) 2 1/2 INCH MINIMUM CALIPER NATIVE SHADE TREES IN ADDITION TO THE REQUIRED PERIMETER LANDSCAPING TO MITIGATE THE REMOVAL OF THE TWO SPECIMEN TREES. INCLUDE THE ADDITIONAL TREES ON SP-17-011 AND ALL SUBSEQUENT PLANS. THESE TREES WILL BE BONDED ALONG WITH THE REQUIRED PERIMETER LANDSCAPING AS PART OF THE FINAL SUBDIVISION PLAN.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING, CONSTRUCTION INSPECTION DIVISION AT (410)313-1880 AT LEAST FIVE (5) 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 BEING DONE.
- 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 FIXTURES AND POLES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III (2006), SECTION 5.5.A. A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.

ENGINEER'S 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 OF ENGINEER
R. JACOB HIKMAT, PE.
PRINTED NAME OF ENGINEER

8/19/19
DATE

DEVELOPERS CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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. HOWARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUCT PERIODIC ON-SITE INSPECTION.

SIGNATURE OF DEVELOPER
W.M. SCOTT GODSLEY
PRINTED NAME OF DEVELOPER

08/18
DATE

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

HOWARD SOIL CONSERVATION DISTRICT

8/28/18
DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF HIGHWAYS

9/13/2018
DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION NY
DATE 9-21-18

CHIEF, DIVISION OF LAND DEVELOPMENT es
DATE 9-25-18

THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET

OWNER
HARMONY BUILDERS INC.
4228 COLUMBIA RD.
ELLCOTT CITY MD, 21042
(410) 461-0833

R. JACOB HIKMAT P.E.
DATE: 8/19/19

date AUG 2018
project 16-015
illustration MAM
scale MAM
AS SHOWN RJH

description
revisions

no. date

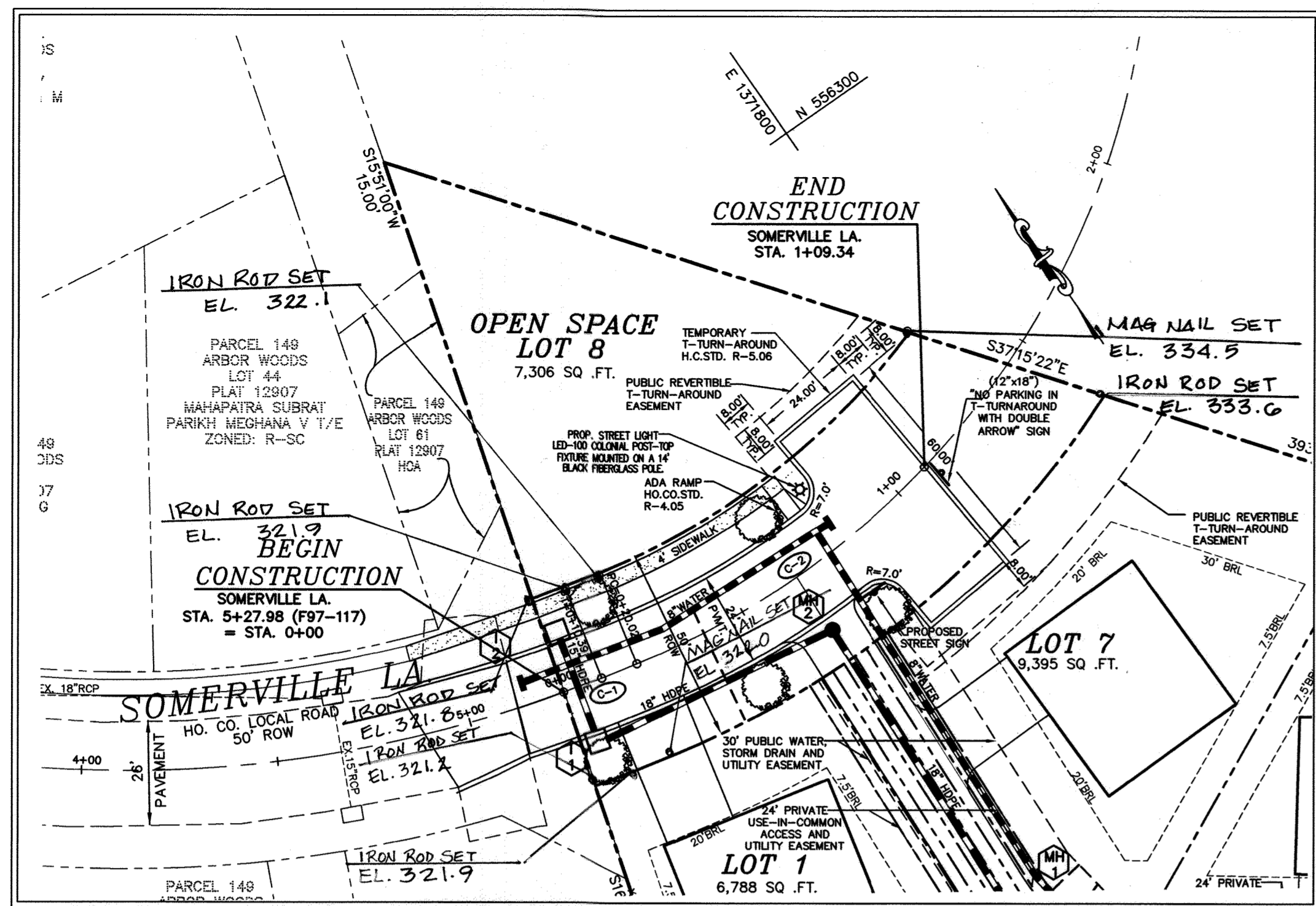
SOMERVILLE ESTATES
LOTS 1-7 AND OPEN SPACE LOTS 8-10
TAX MAP 37, GRID 14, PARCEL 532
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

COVER SHEET

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7350-B Grace Drive, Columbia, Maryland 21044
(410) 997-0296 Tel. (410) 997-0298 Fax

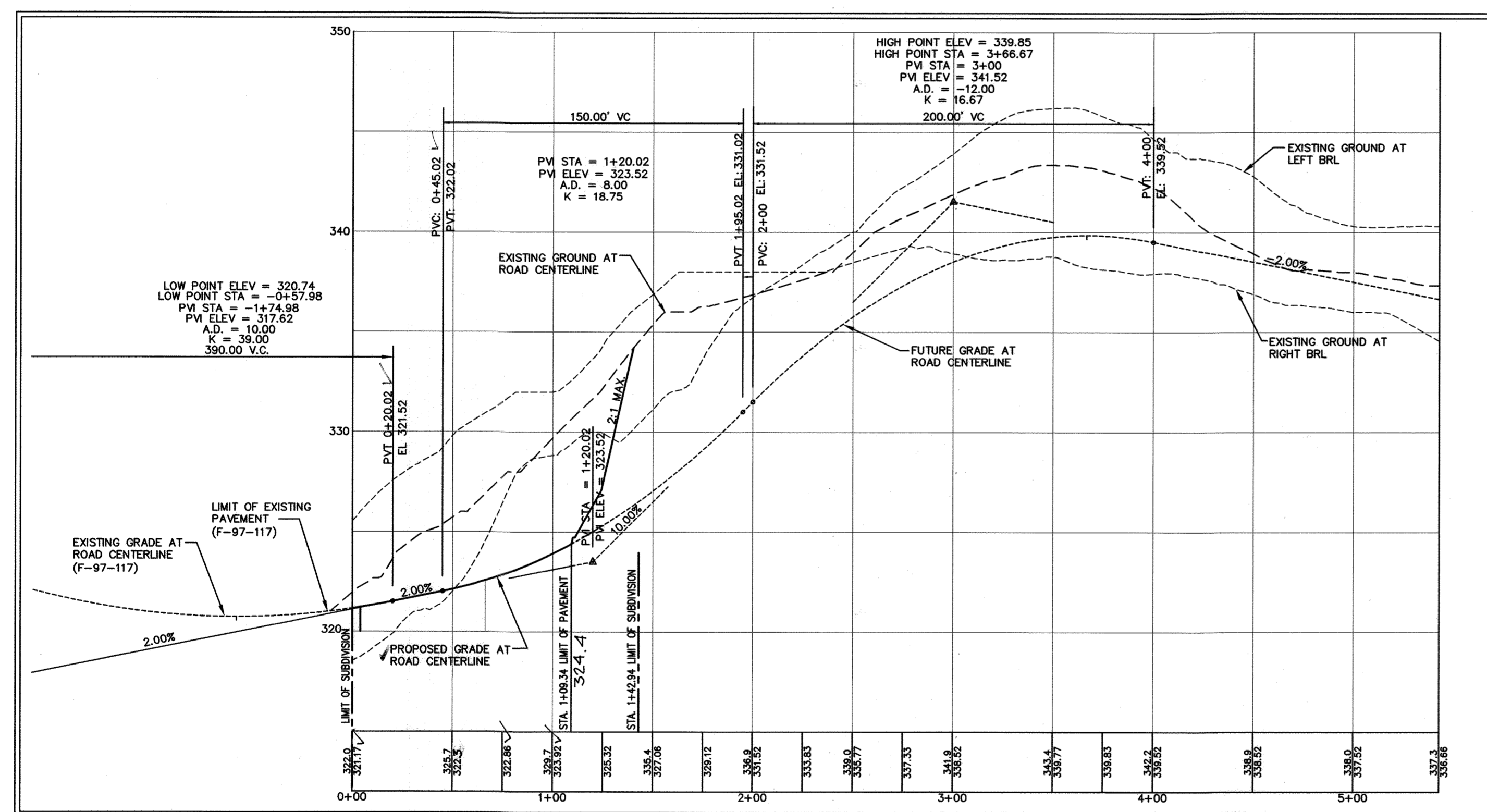
1 OF 7

F-18-070



SOMERVILLE LANE EXTENSION PLAN

SCALE: 1"=30'



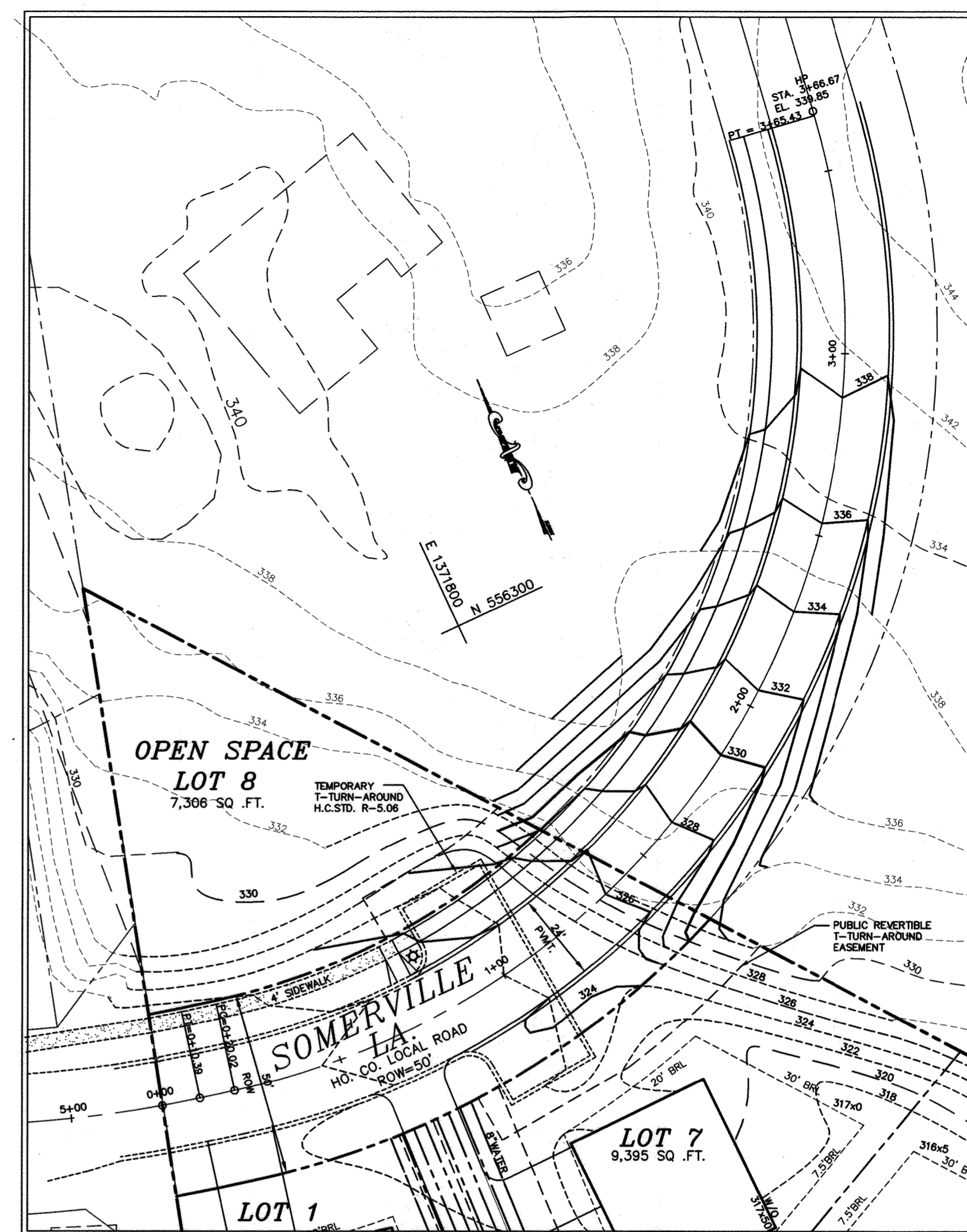
PROFILE - SOMERVILLE LANE EXTENSION

(PUBLIC - LOCAL ROAD, 30 M.P.H. DESIGN SPEED)

SCALE: 1"=50' HOR
1"=5' VER

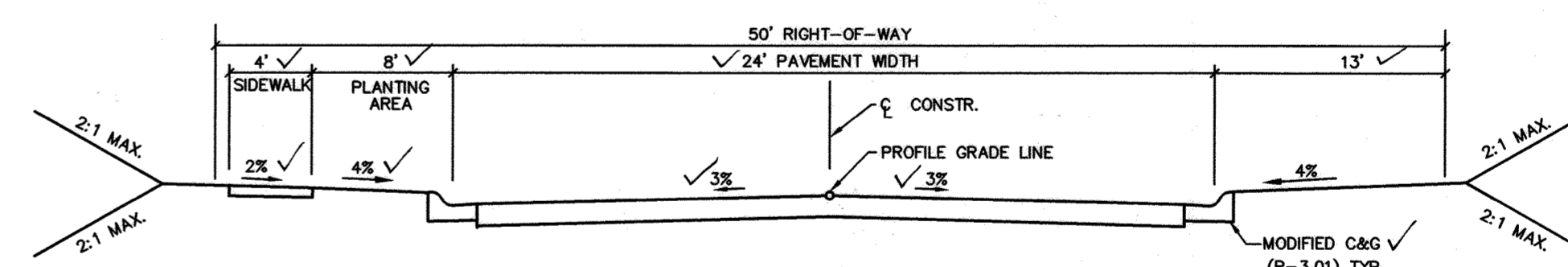
CENTERLINE CURVE TABLE

CURVE	LENGTH (FT)	RADIUS (FT)	DELTA	TANGENT (FT)	CHORD LENGTH (FT)	CHORD DIR
C-1	10.39	320.00	01°51'36"	5.19	10.39	S76°20'15"E
C-2	89.32	210.00	24°22'11"	45.35	80.65	S87°27'09"E



POTENTIAL FUTURE SOMERVILLE LANE EXTENSION

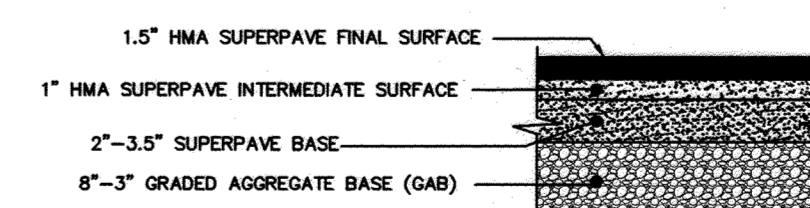
SCALE: 1"=30'



SOMERVILLE LA TYPICAL SECTION

CLASSIFICATION: ACCESS STREET
DESIGN SPEED: 30 MPH

HO.CO.STD.R-1.02
N.T.S.



PAVING SECTION P-2

NOTE: DEPTH OF SUPERPAVE BASE AND GRADED AGGREGATE BASE DEPEND ON CBR.

APPROVED: DEPARTMENT OF PUBLIC WORKS
Melvin 9/13/2018
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Chad Coleman 9-21-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION

T. Munch 9-25-18
CHIEF, DIVISION OF LAND DEVELOPMENT

OWNER
HARMONY BUILDERS INC
4228 COLUMBIA ROAD
ELLCOTT CITY, MD 21042
410-461-0833

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. 17942, EXP DATE 09/03/20

R. JACOB HIRMAT P.E. 9/19/18



I hereby certify that the facility shown on this plan was constructed as shown on the 'As-Built' plans and meets with the approved plans and specifications.

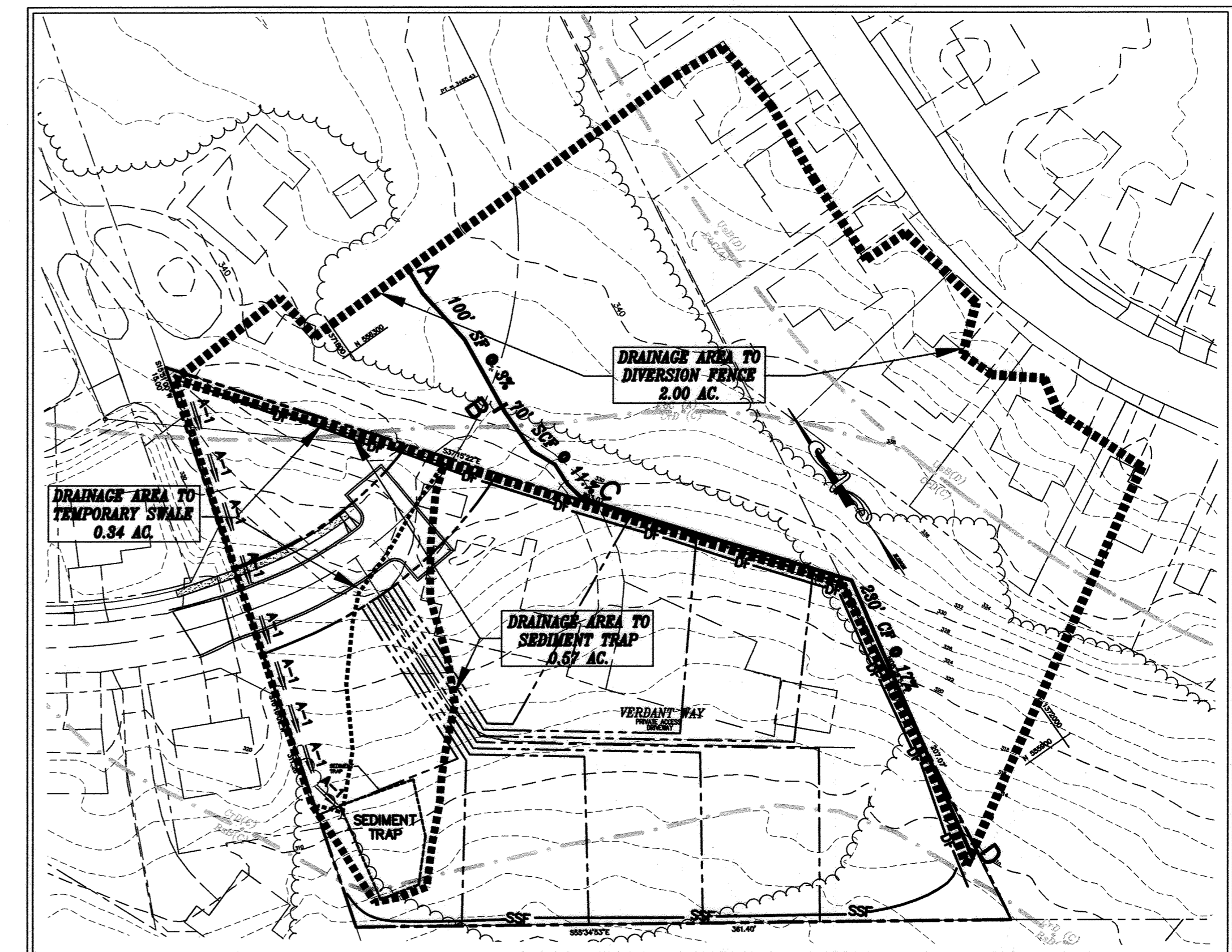
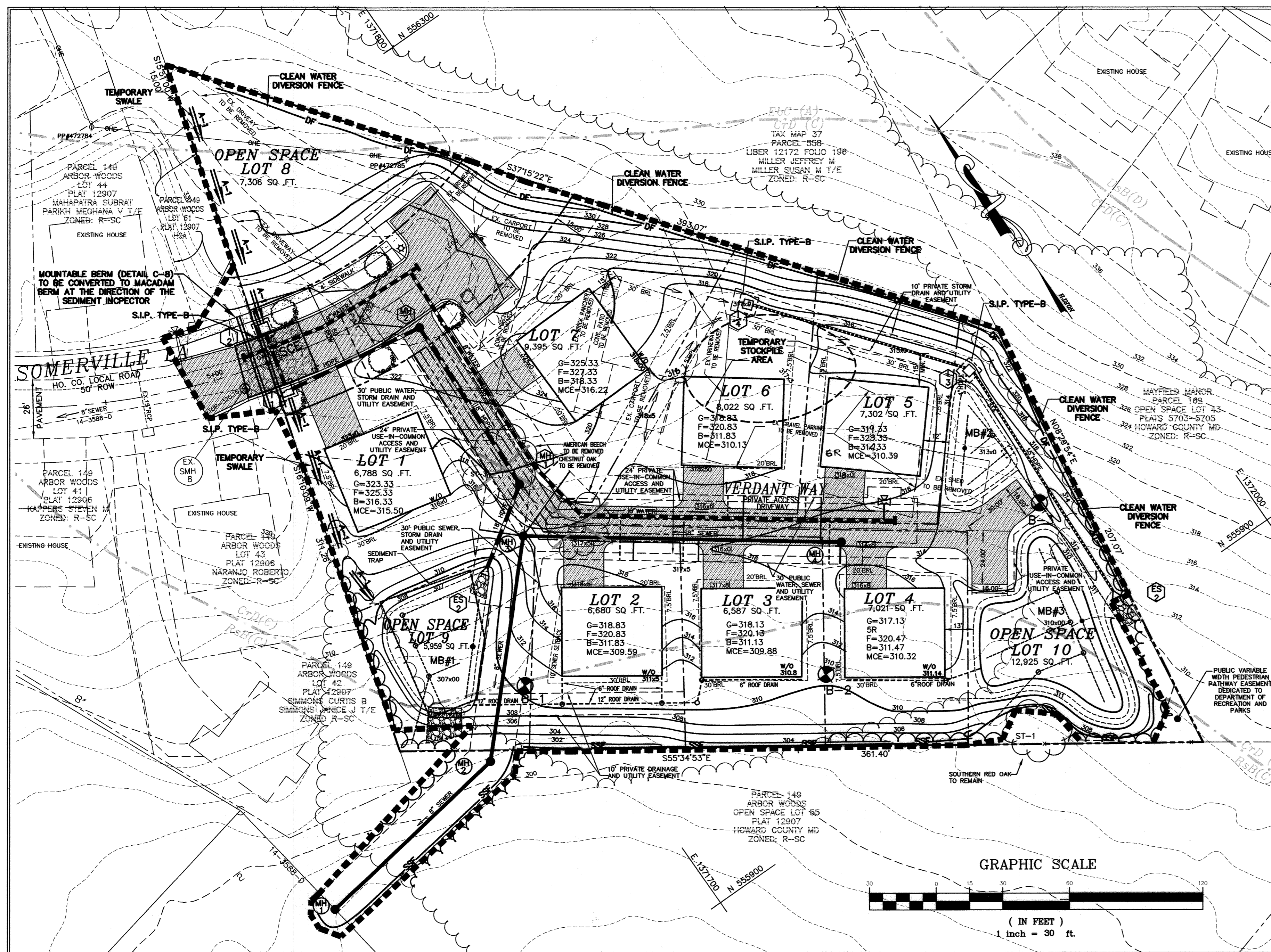


project 18-015
date AUG. 2018
illustration MAM
scale AS SHOWN
approval R.H.

APD AS-BUILT DATA
description
revisions
date 11/17/22

SOMERVILLE ESTATES
LOTS 1-7 AND OPEN SPACE LOTS 8-10
TAX MAP 37, GRID 14, PARCEL 532
FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
FINAL ROAD PLAN, PROFILE AND TYPICAL SECTION

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7350-B Grace Drive, Columbia, Maryland 21044
(410) 997-0296 Tel. (410) 997-0298 Fax.



TEMPORARY SWALE (A-1) DATA

DRAINAGE AREA: 0.34 AC.
 C FACTOR: 0.24
 TIME: 10 MIN.
 I: 6.6
 Q: 0.34x0.24x6.6 = 0.54 CFS
 CHANNEL SLOPE: 8.5%
 MANNING'S N: 0.024
 HEIGHT: 1'
 BOTTOM WIDTH: 4'
 SIDE SLOPES: 2:1
 VELOCITY: 2.5 FPS

DIVERSION FENCE (DF) DATA

DRAINAGE AREA: 2.00 AC.
 C FACTOR: 0.26
 TIME: 19.9 MIN.
 I: 4.7
 Q: 2.0x0.26x4.7 = 2.44 CFS
 CHANNEL SLOPE: 17.0%
 MANNING'S N: 0.075
 HEIGHT: 3'
 BOTTOM WIDTH: 0'
 RIGHT SLOPE: 2:1
 LEFT SLOPE: 5:1
 VELOCITY: 3.08 FPS

SOILS TABLE

SYMBOL	RATING	NAME	K FACTOR	MAP NO.	COMMENTS
CrD	(C)	CROOM AND EVESBORO SOILS, 10-15%	.37	19	HIGHLY ERODIBLE
Ebc	(A)	EVESBORO LOAMY SAND, 2-10% SLOPES.	.17	19	
Rsb	(C)	RUSSETT FINE SANDY LOAM, 2 TO 5% SLOPES	.24	19	

ENGINEER'S 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.

8/14/18
 R. JACOB HIKMAT, PE.
 PRINTED NAME OF ENGINEER

DEVELOPERS CERTIFICATE
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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. HOWARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUCT PERIODIC ON-SITE INSPECTION.

08/14/18
 W. Scott Godfrey
 SIGNATURE OF DEVELOPER
 PRINTED NAME OF DEVELOPER

8/29/18
 Howard Soil Conservation District
 APPROVED: DEPARTMENT OF PUBLIC WORKS

9/13/2018
 M. Lewis
 CHIEF, BUREAU OF HIGHWAYS

9-21-18
 C. J. Edwards
 CHIEF, DEVELOPMENT ENGINEERING DIVISION NY

9-25-18
 T. M. F. K. S.
 CHIEF, DIVISION OF LAND DEVELOPMENT

8/14/18
 R. JACOB HIKMAT P.E.
 DATE

SEDIMENT TRAP (ST II) DATA

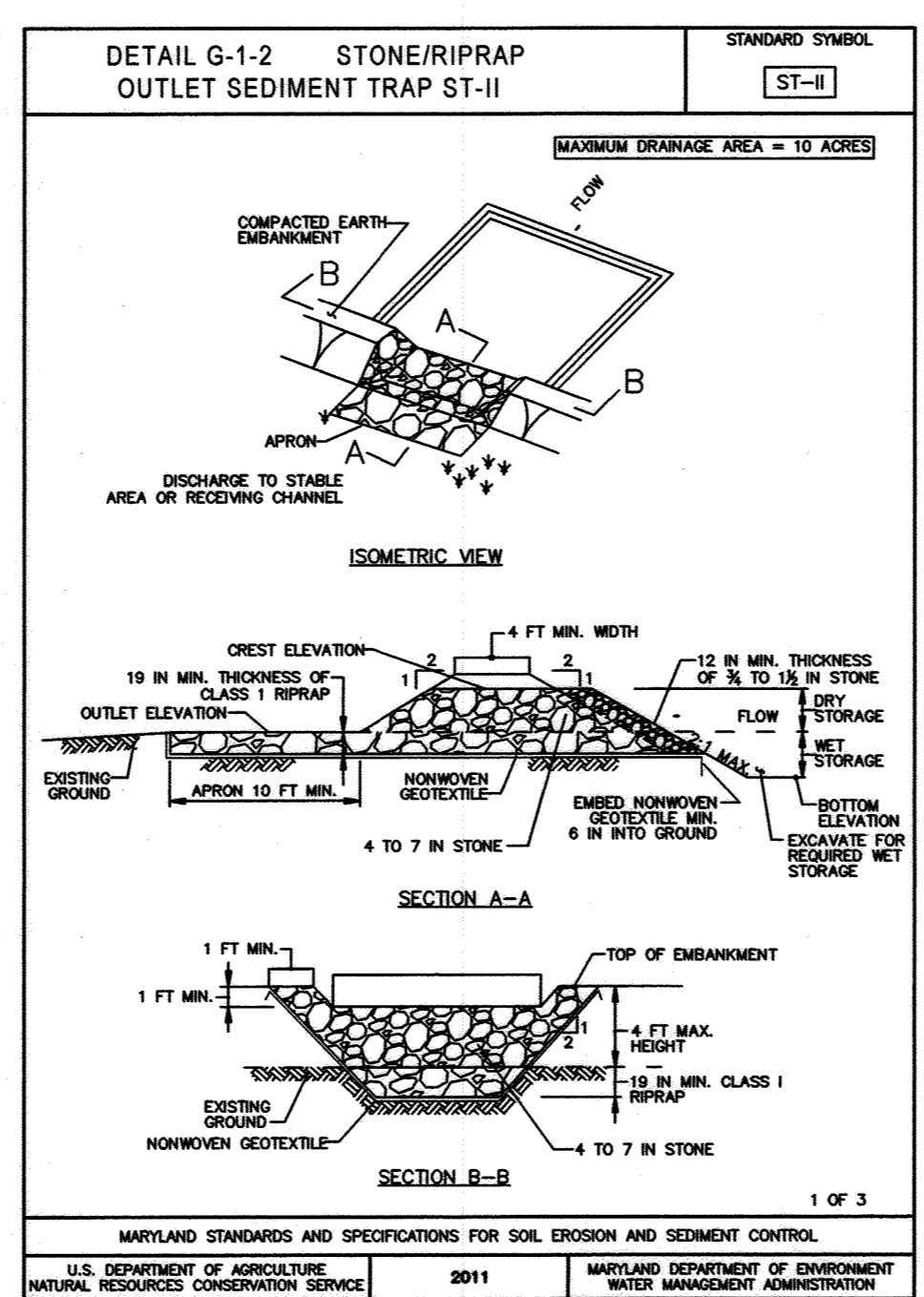
DRAINAGE AREA: 0.57 AC.
 TOTAL STORAGE REQUIRED: 2,052 C.F.
 TOTAL STORAGE PROVIDED: 2,350 C.F.
 WET STORAGE REQUIRED: 1,026 C.F.
 WET STORAGE PROVIDED: 1,035 C.F.
 DRY STORAGE REQUIRED: 1,026 C.F.
 DRY STORAGE PROVIDED: 1,315 C.F.
 EX. GROUND ELEV. @ OUTLET: 304.0
 BOTTOM ELEVATION: 302.0
 BOTTOM DIMENSIONS: 22'x43'
 WEIR LENGTH: 10'
 WEIR CREST ELEV.: 304.0
 TOP OF EMBANKMENT ELEV.: 305.0
 TOP OF EMBANKMENT WIDTH: 4'
 SIDE SLOPE: 2:1
 OUTLET PROTECTION LENGTH: 10'
 OUTLET PROTECTION DEPTH: 9'

OWNER
 HARMONY BUILDERS
 4228 COLUMBIA RD.
 ELLICOTT CITY MD, 21042
 (410) 461-0833

THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET

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. 17942, EXP DATE 09/03/20

8/14/18
 R. JACOB HIKMAT P.E.
 DATE



NOTE:
 EITHER TEMPORARY OR PERMANENT SEEDING AND STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE TIME FRAME IN THE 2011 MARYLAND STANDARDS & SPECIFICATIONS OF SOIL EROSION AND SEDIMENT CONTROL, WHICHEVER IS MORE STRINGENT.

LEGEND

- EX. TREE LINE
- PR. TREE LINE
- SPECIMEN TREE TO BE REMOVED
- 8" SEWER
- 8" WATER
- PR. 8" SEWER MAIN
- PR. SEWER MANHOLE
- PR. 8" WATER MAIN
- PR. STORM DRAIN PIPE
- PR. STORM DRAIN INLET
- PROPOSED PAVEMENT
- LOD
- LIMIT OF DISTURBANCE
- A-1
- TEMPORARY SWALE
- SSF
- SUPER SILT FENCE
- DF
- DIVERSION FENCE

SOMERVILLE ESTATES
 LOTS 1-7 AND OPEN SPACE LOTS 8-10
 TAX MAP 37, GRID 14, PARCEL 532
 HOWARD COUNTY, MARYLAND

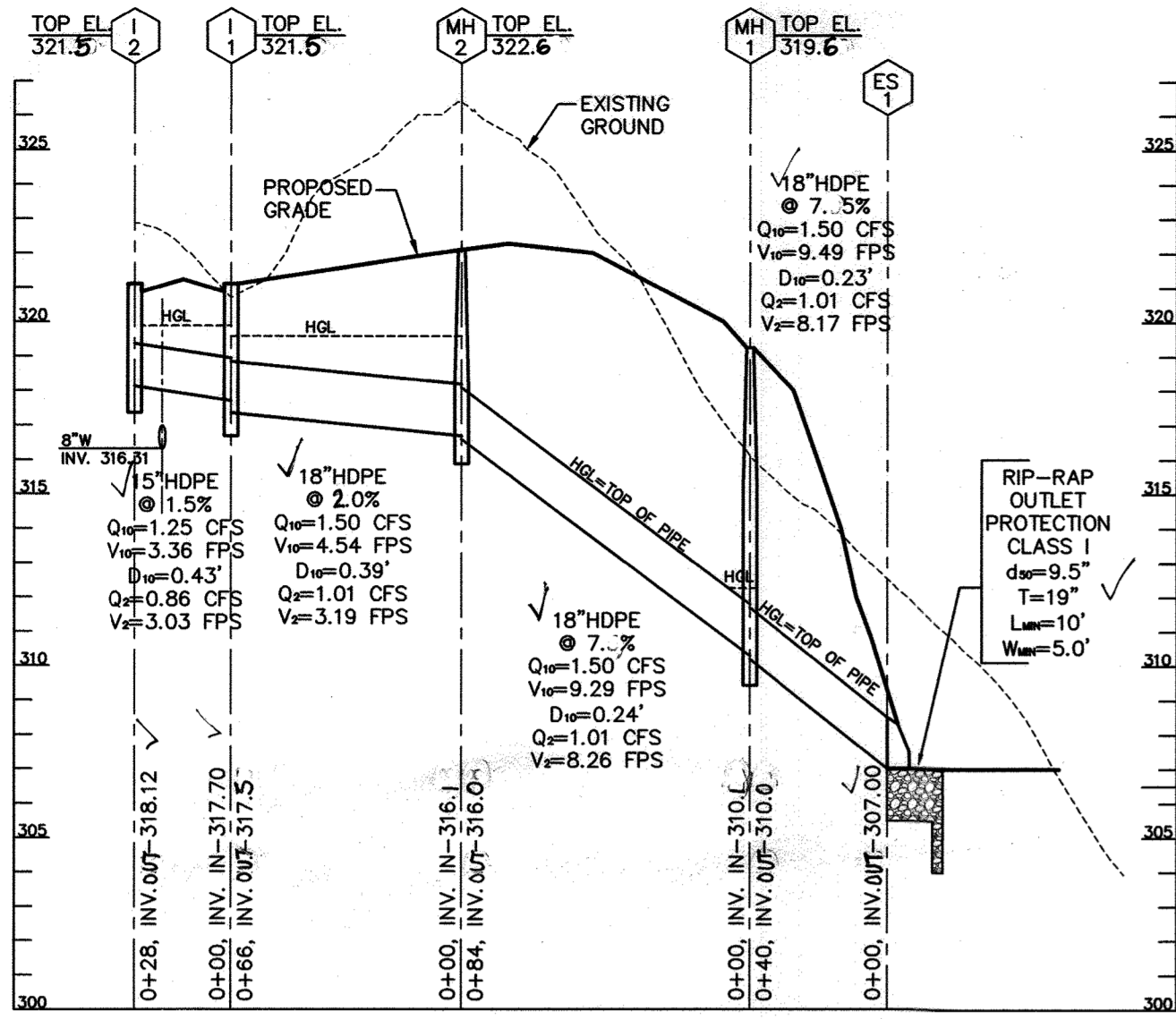
1 Rev 2-2018, Technical for Submission of 1-4
 description
 revisions

1 Rev 2-2018, Technical for Submission of 1-4
 description
 revisions

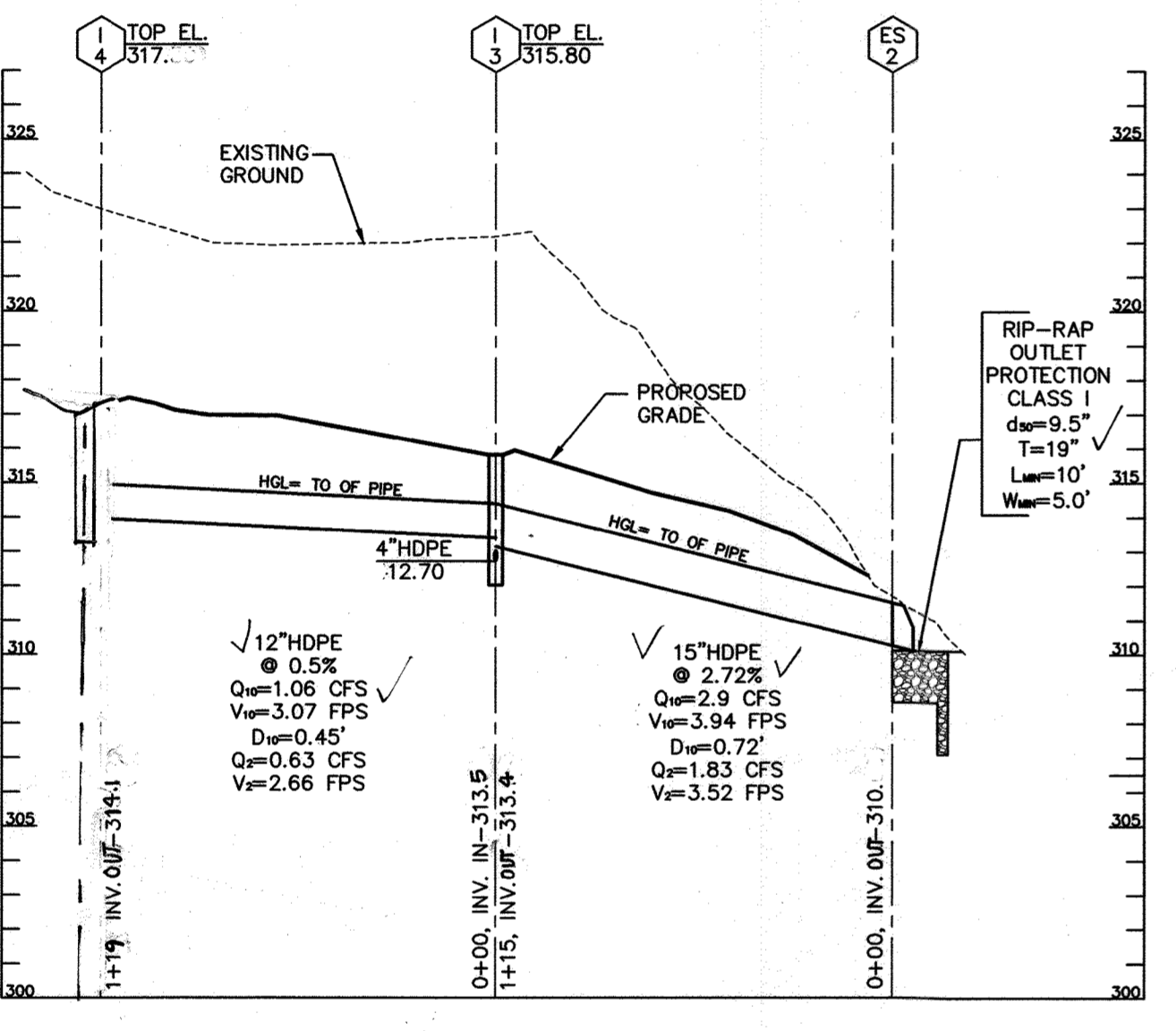
MILDENBERG, BOENDER & ASSOC., INC.
 Surveyors
 Engineers Planners
 7350-B Crace Drive, Columbia, Maryland 21044
 (410) 997-0286 Tel. (410) 997-0288 Fax.

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F-18-070



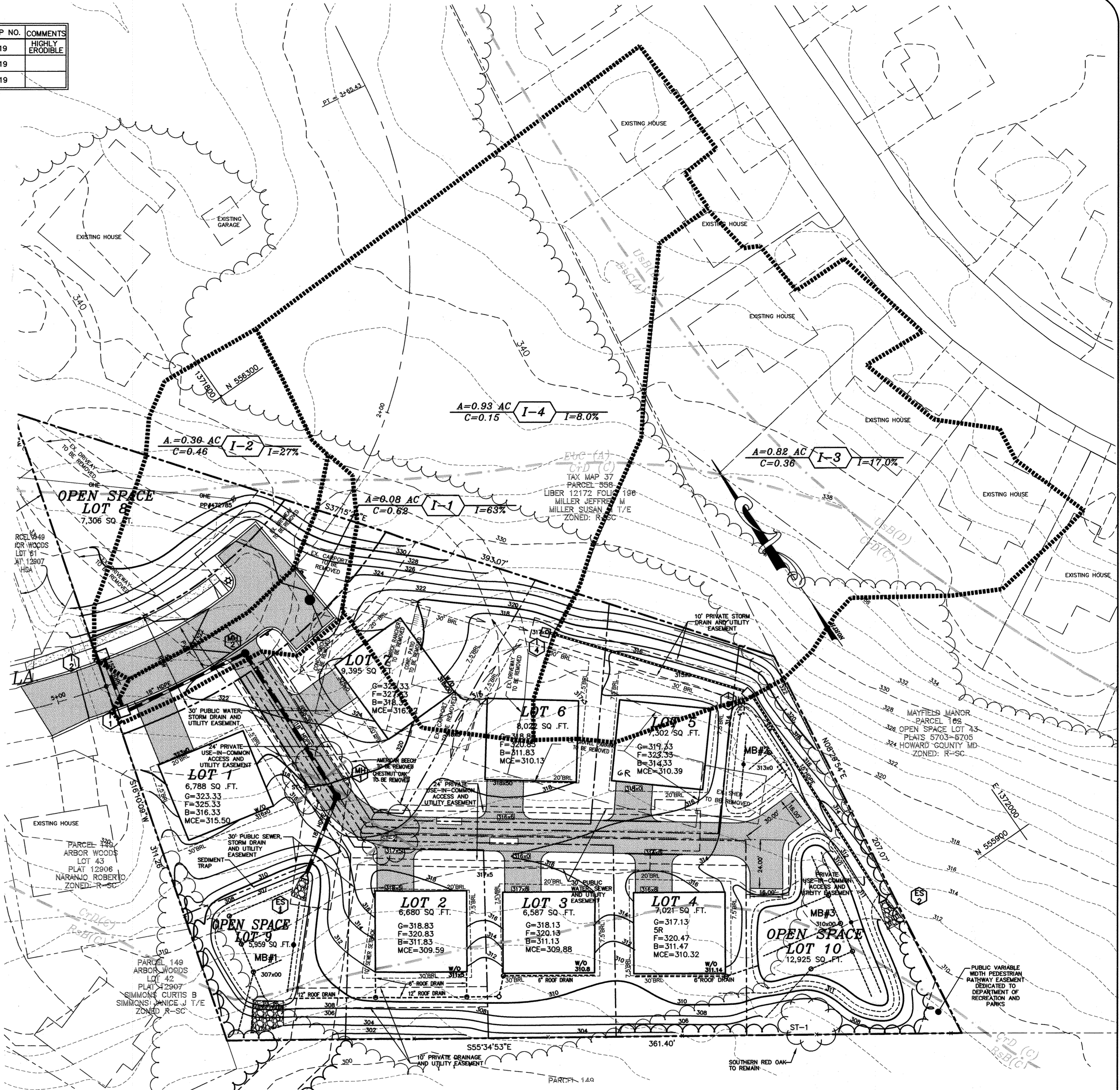
STORM DRAIN PROFILE I-2 TO ES-1
SCALE: HOR. 1"=50'
VER. 1"=5'



STORM DRAIN PROFILE I-3 TO ES-2
SCALE: HOR. 1"=50'
VER. 1"=5'

SOILS TABLE

SYMBOL	RATING	NAME	K FACTOR	MAP NO.	COMMENTS
CrD	(C)	CROOM AND EVESBORO SOILS, 10-15%	.37	19	HIGHLY ERODIBLE
Ebc	(A)	EVESBORO LOAMY SAND, 2-10% SLOPES.	.17	19	
Rsb	(C)	RUSSETT FINE SANDY LOAM, 2 TO 5% SLOPES	.24	19	



STRUCTURE SCHEDULE

NO.	LOCATION*	TOP**	INV. IN	INV. OUT	COMMENTS
I-1	SOMERVILLE LANE STA. 0+04.00 OFFSET 12.43 RT.	321.5	317.70	317.5	TYPE A-5 INLET (HO. CO. STD D-4.01)
I-2	SOMERVILLE LANE STA. 0+04.00 OFFSET 12.43 LT.	321.5	-	318.1	TYPE A-5 INLET (HO. CO. STD D-4.01)
I-3	N 556,031.923 E 1,371,928.615	315.80	313.5	312.70	YARD INLET (HO. CO. STD D-4.14)
I-4	N 556,084.283 E 1,371,884.588	317.1	-	314.1	YARD INLET (HO. CO. STD D-4.14)
MH-1	N 556,106.125 E 1,371,734.027	319.6	310.1	310.0	STANDARD MH (HO. CO. STD G-5.12)
MH-2	SOMERVILLE LANE STA. 0+66.18 OFFSET 16.20 RT.	322.6	316.1	316.0	STANDARD MH (HO. CO. STD G-5.12)
ES-1	N 556,083.957 E 1,371,700.725	-	307.00	-	18" HDPE END SECTION
ES-2	N 555,927.992 E 1,371,927.118	-	310.2	-	15" HDPE END SECTION

PIPE SCHEDULE

PIPE SIZE	QUANTITY
12" HDPE	42 L.F.
15" HDPE	28 L.F.
18" HDPE	248 L.F.

NOTES:

1. LOCATION GIVEN TO CENTER OF THE FACE OF INLET AT TOP OF CURB FOR INLETS LOCATED WITHIN THE ROAD RIGHT-OF-WAY.
2. STATIONS FOR YARD INLETS TO CENTER OF INLET.
3. LOCATION OF END SECTION GIVEN TO THE CENTERLINE OF PIPE AT THE CONNECTION OF THE STORM DRAIN PIPE TO THE END SECTION.
4. ELEVATIONS MEASURED TO CENTER OF ALL INLETS.

ENGINEER'S 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 OF ENGINEER: *R. JACOB HIKMAT* DATE: 8/14/18
R. JACOB HIKMAT, PE.
PRINTED NAME OF ENGINEER

DEVELOPERS CERTIFICATE
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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. HOWARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUCT PERIODIC ON-SITE INSPECTION.

SIGNATURE OF DEVELOPER: *W.M. SCOTT GODFREY* DATE: 8/14/18
W.M. SCOTT GODFREY
PRINTED NAME OF DEVELOPER

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

SIGNATURE: *Jacob H. Hinton* DATE: 8/28/18
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS
SIGNATURE: *M. Lewis* DATE: 9/13/2018
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
SIGNATURE: *Chad Edman* DATE: 9-21-18
CHIEF, DEVELOPMENT ENGINEERING DIVISION

SIGNATURE: *J. W. Anderson* DATE: 9-25-18
CHIEF, DIVISION OF LAND DEVELOPMENT

LEGEND

- DRY-WELL (M-5)
- EX. TREE LINE
- PR. TREE LINE
- SPECIMEN TREE TO BE REMOVED
- PR. STORM DRAIN PIPE
- PR. STORM DRAIN INLET
- PROPOSED PAVEMENT
- LIMIT OF DRAINAGE AREA

OWNER
HARMONY BUILDERS
4228 COLUMBIA RD.
ELLCOTT CITY MD, 21042
(410) 461-0833

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. 17942, EXP DATE 09/03/20

SIGNATURE: *R. JACOB HIKMAT* DATE: 8/14/18
R. JACOB HIKMAT P.E.

date: AUG. 2018
project: 18-015
illustration: MAM
scale: 1/4"=1'-0"
description: SOILS, DRAINAGE AREA MAP AND STORM DRAIN PROFILES
revisions: AS SHOWN R/H

APP. AS-BUILT DATA
REV. GRANVILLE LAMBERT
DATE: 1/1/12
NO. 2

SOMERVILLE ESTATES
LOTS 1-7 AND OPEN SPACE LOTS 8-10
TAX MAP 37, GRID 14, PARCEL 592
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SOILS, DRAINAGE AREA MAP AND STORM DRAIN PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Surveyors
7850-B Crues Drive, Columbia, Maryland 21044
(410) 997-0286 Tel. (410) 997-0288 Fax.

SOILS TABLE

SYMBOL	RATING	NAME	K FACTOR	MAP NO.	COMMENTS
Crd	(C)	CROOM AND EVESBORO SOILS, 10-15%	.37	19	HIGHLY ERODIBLE
Ebc	(A)	EVESBORO LOAMY SAND, 2-10% SLOPES.	.17	19	
Rsb	(C)	RUSSETT FINE SANDY LOAM, 2 TO 5% SLOPES	.24	19	

STREET TREE CALCULATIONS

SOMERVILLE LANE - 200 / 40 = 5

STREET TREE PLANTING SCHEDULE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
5	(Symbol)	PRUNUS SARGENTII OR EQUIVALENT	SARGENT CHERRY OR EQUIVALENT	2 1/2" - 3" CAL.
TOTAL				5 STREET TREES

FOREST CONSERVATION WORKSHEET

NET TRACT AREA:
 A. Total tract area.....=1.96
 B. Area within 100 year floodplain.....=0.00
 C. Area to remain in agricultural production.....=0.00
 D. Net tract area.....=1.96

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)
 Input the number "1" under the appropriate land use zoning, and limit to only one entry.

ARA MOR IDA HDR MPO CIA
 0 0 0 1 0 0

E. Afforestation Threshold..... 15% x D = 0.29
 F. Conservation Threshold..... 20% x D = 0.39

EXISTING FOREST COVER:
 G. Existing forest cover (excluding floodplain).....=0.00
 H. Area of forest above afforestation threshold.....=0.00
 I. Area of forest above conservation threshold.....=0.00

BREAK EVEN POINT
 J. Forest retention above threshold with no mitigation.....=0.00
 K. Clearing permitted without mitigation.....=0.00

PROPOSED FOREST CLEARING:
 L. Total area of forest to be cleared.....=0.00
 M. Total area of forest to be retained.....=0.00

PLANTING REQUIREMENTS:
 N. Reforestation for clearing above conservation threshold.....=0.00
 O. Reforestation for clearing below conservation threshold.....=0.00
 P. Total reforestation required.....=0.00
 Q. Credit for retention above conservation threshold.....=0.00
 R. Total reforestation required.....=0.00
 S. Total afforestation required.....=0.29
 T. Total reforestation and afforestation required.....=0.29

SCHEDULE A: PERIMETER LANDSCAPED EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES					TOTAL
	A (PERIMETER 1)	A (PERIMETER 2)*	A (PERIMETER 3)	A (PERIMETER 4)	A (PERIMETER 5)	
LANDSCAPE TYPE	393.94 LF	117.12 LF	159.49 LF	361.35 LF	207.18 LF	
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	NO	NO	NO	
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	NO	NO	
NUMBER OF PLANTS REQUIRED	7 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	2 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS	21 SHADE TREES 0 EVERGREEN TREES 0 SHRUBS
NUMBER OF PLANTS PROVIDED	4 SHADE TREES 6 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS (10-1 SUBSTITUTION)	6 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	6 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	3 SHADE TREES 0 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS	22 SHADE TREES 6 EVERGREEN TREES 0 SUBSTITUTION TREES 0 SHRUBS

* PERIMETER 2- THE ADDITIONAL 4 SHADE TREES PROVIDED IN LIEU OF REMOVAL OF 2 SPECIMEN TREES HAVE BEEN ADDED TO PERIMETER 2.

LANDSCAPE REQUIREMENT PLANTING SCHEDULE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
5	(Symbol)	ACER RUBRUM 'RED SUNSET' OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	RED SUNSET RED MAPLE OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	2 1/2" - 3" CAL.
10	(Symbol)	GLEDTISIA TRIACANTHOS INERMIS 'IMPERIAL', OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	IMPERIAL THORNLESS HONEYLOCUST OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	2 1/2" - 3" CAL.
3	(Symbol)	FAGUS GRANDIFOLIA OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	AMERICAN BEECH OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	2 1/2" - 3" CAL.
6	(Symbol)	THUJA PLICATA OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	GREEN GIANT OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	6'-8" HEIGHT
TOTAL				24 TREES (18 SHADE AND 6 EVERGREEN TREES)

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
4	(Symbol)	ACER RUBRUM 'RED SUNSET' OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	RED SUNSET RED MAPLE OR EQUIVALENT AS OUTLINED IN THE HOWARD COUNTY LANDSCAPE MANUAL	2 1/2" - 3" CAL.
TOTAL				4 TREES (4 SHADE TREES)

NOTE- AN ADDITIONAL 4 SHADE TREES HAVE BEEN PROVIDED IN LIEU OF 2 SPECIMEN TREES REMOVED.

TOTAL FOR THE PROJECT
 25 SHADE TREES

APPROVED: DEPARTMENT OF PUBLIC WORKS
 [Signature] 9/13/2018
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] 9-21-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 9-25-18
 CHIEF, DIVISION OF LAND DEVELOPMENT

DEVELOPER'S/OWNER'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 CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

[Signature] 8/14/18
 OWNER

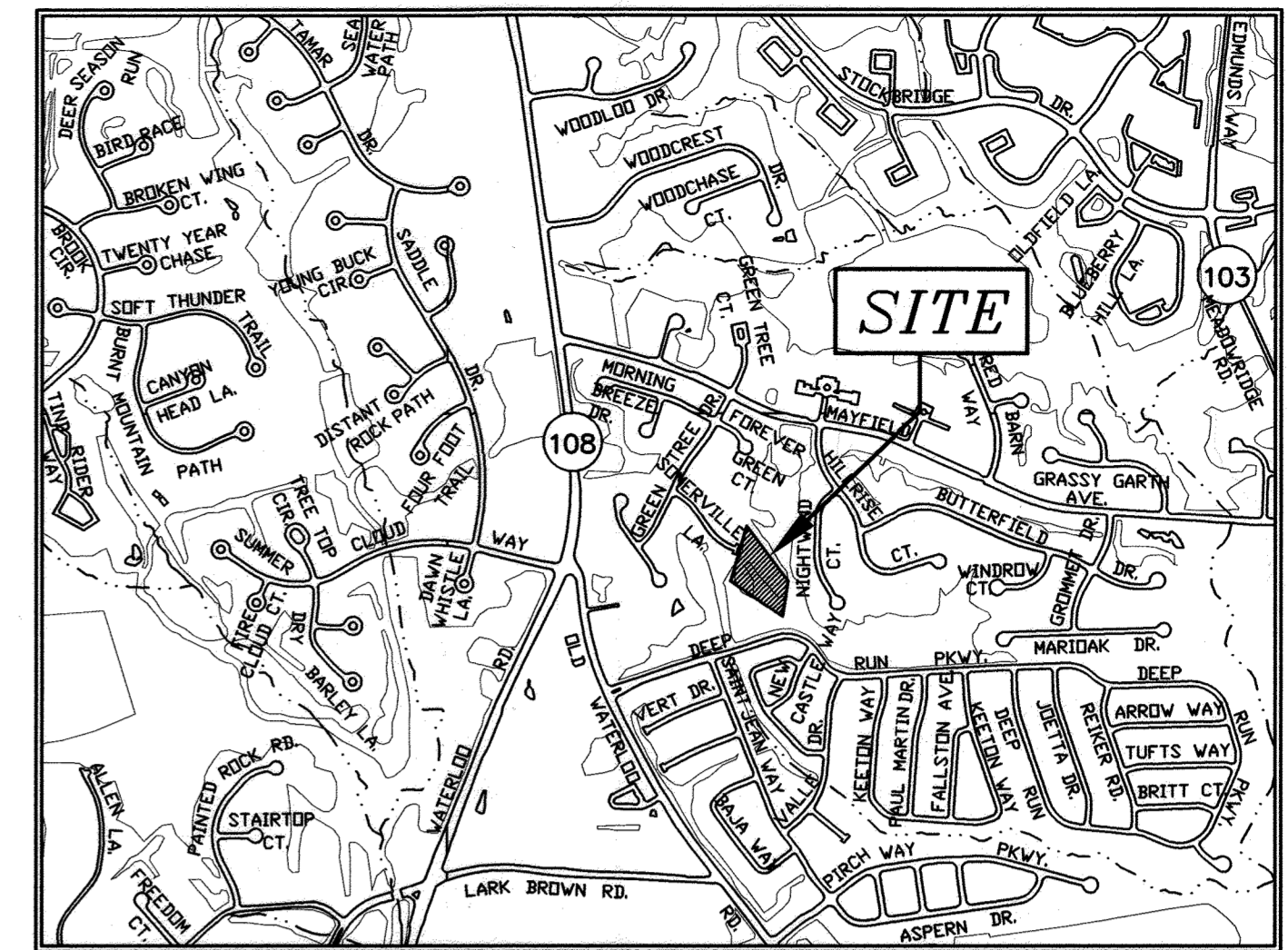
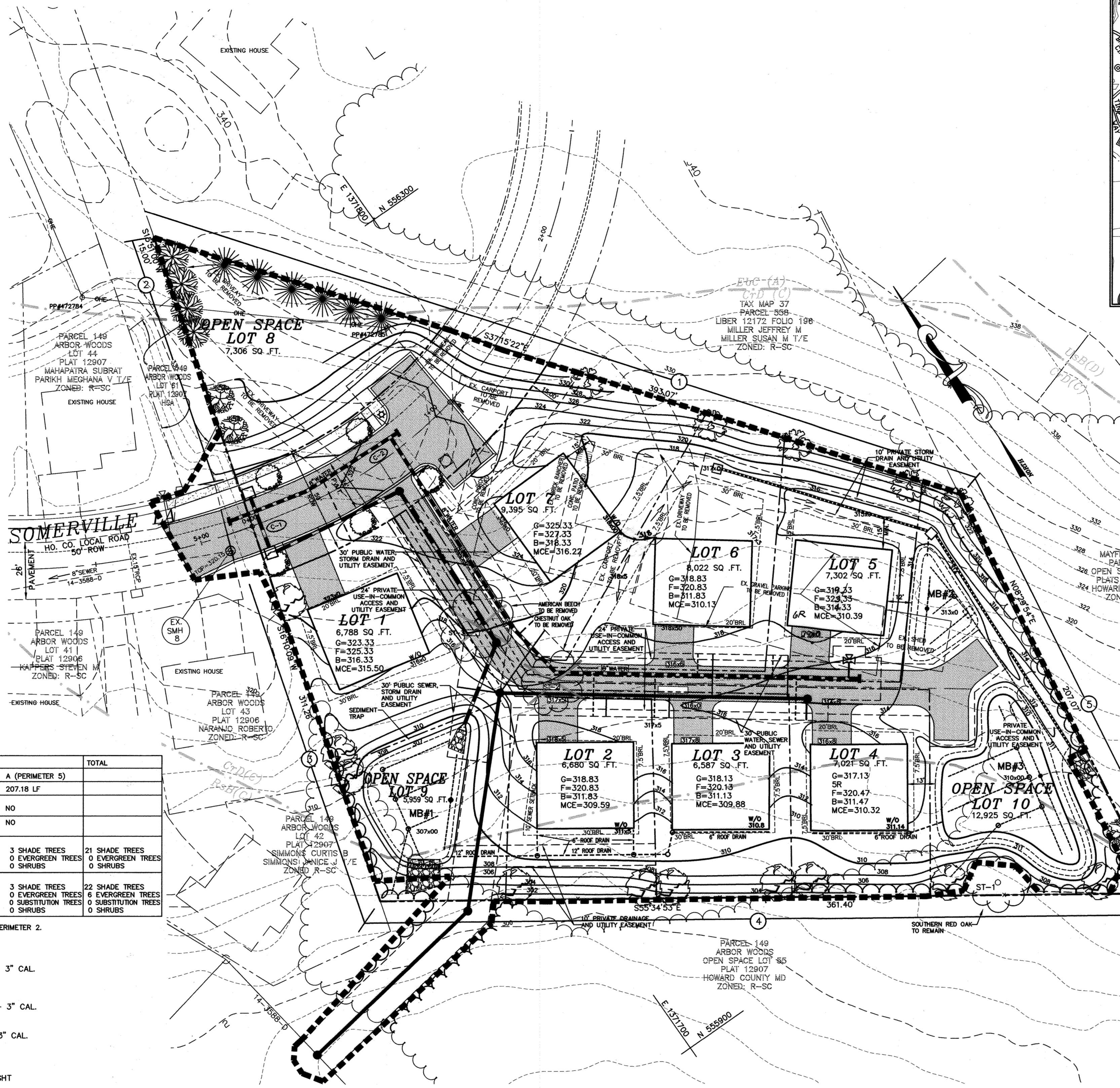
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17942, EXP DATE 09/03/20

[Signature] 8/14/18
 R. JACOB HIKMAT P.E.

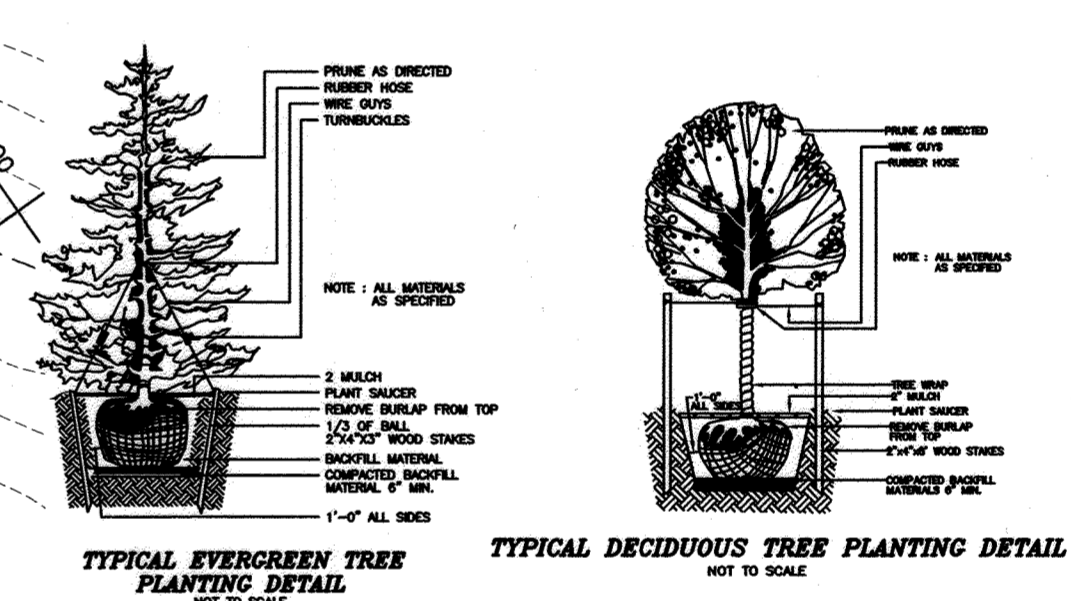


MD DNR QUALIFIED PROFESSIONAL

[Signature] 8/14/18
 MASHID TRINGA

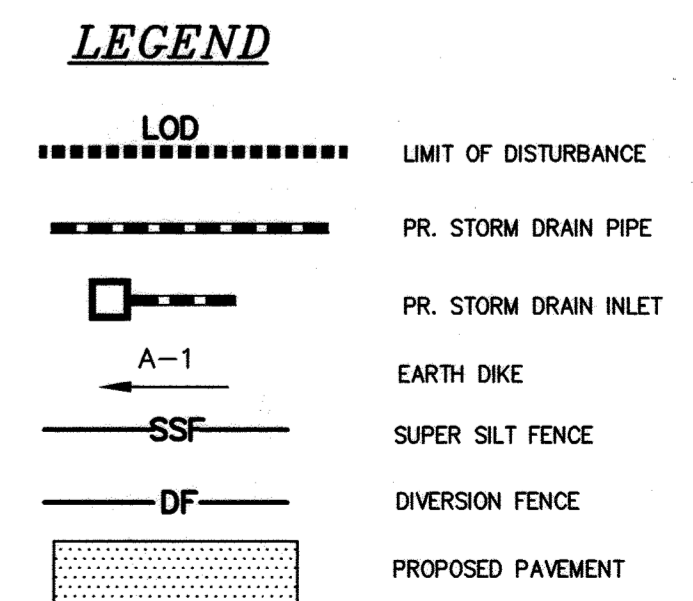
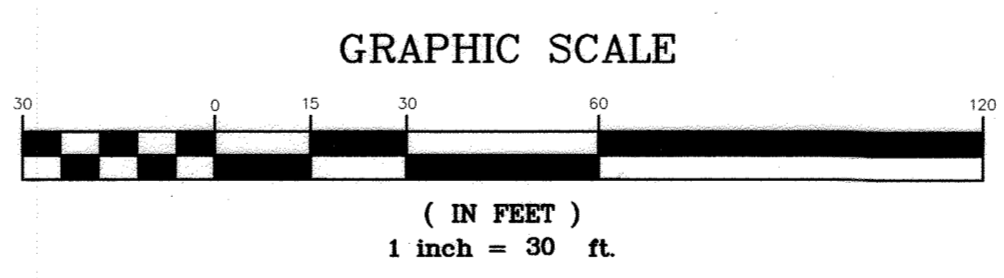


- FSD NOTES:**
- NO RARE, THREATENED OR ENDANGERED SPECIES OR THEIR HABITATS WERE OBSERVED ON THE PROPERTY.
 - SURROUNDING LAND USE IS PRIMARILY HIGH-DENSITY RESIDENTIAL DEVELOPMENT.
 - THE SITE IS LOCATED WITHIN THE DEEP RUN SECTION OF THE PATAPSCO RIVER WATERSHED (02-13-09). THIS SECTION OF THE WATERSHED IS CLASSIFIED AS USE I. NO WETLANDS, STREAMS OR BUFFERS ARE PRESENT ON THE SITE.
 - NO HISTORIC ELEMENTS OR CEMETERIES ARE KNOWN TO OCCUR ON THE PROPERTY.
 - NO STEEP SLOPES (25% AND GREATER) ARE PRESENT ON THE SITE.
 - APPROXIMATELY 1.8 ACRES OF FOREST IS PRESENT WITHIN 100 FEET OF THE SITE.
 - FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT FOR THIS SUBDIVISION WILL BE FULFILLED BY A PAYMENT OF FEE-IN-LIEU FOR 0.29 ACRES OF AFFORESTATION. FEE-IN-LIEU FOR 0.29 ACRES (12,634 SQ. FT.) OF AFFORESTATION IN THE AMOUNT OF \$ 9,475.00 WILL BE POSTED WITH THIS PLAN.



SPECIMEN TREE CHART

KEY	SPECIES	SIZE (IN DBH)	COMMENTS	COMMENTS
1	RED OAK	30.5"	FAR CONDITION, LIMB DAMAGE NOTED.	TO REMAIN
2	CHESNUT OAK	31"	GOOD CONDITION.	TO BE REMOVED
3	BEECH	31.5"	GOOD CONDITION.	TO BE REMOVED



OWNER
 HARMONY BUILDERS
 4228 COLUMBIA RD.
 ELLICOTT CITY MD, 21044
 (410) 461-0833

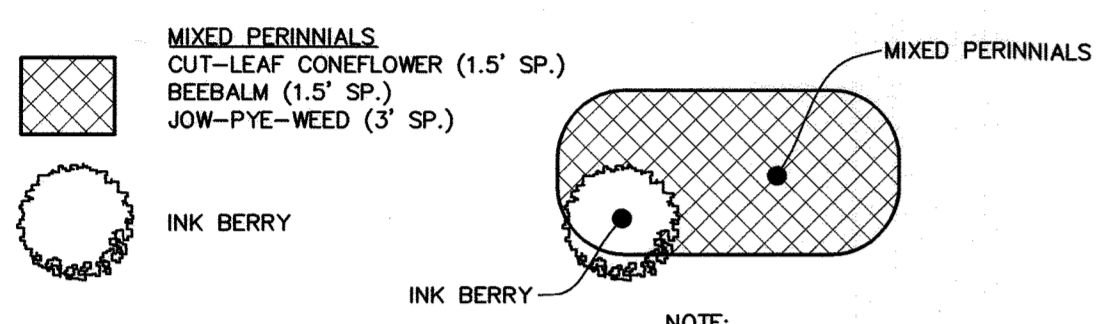
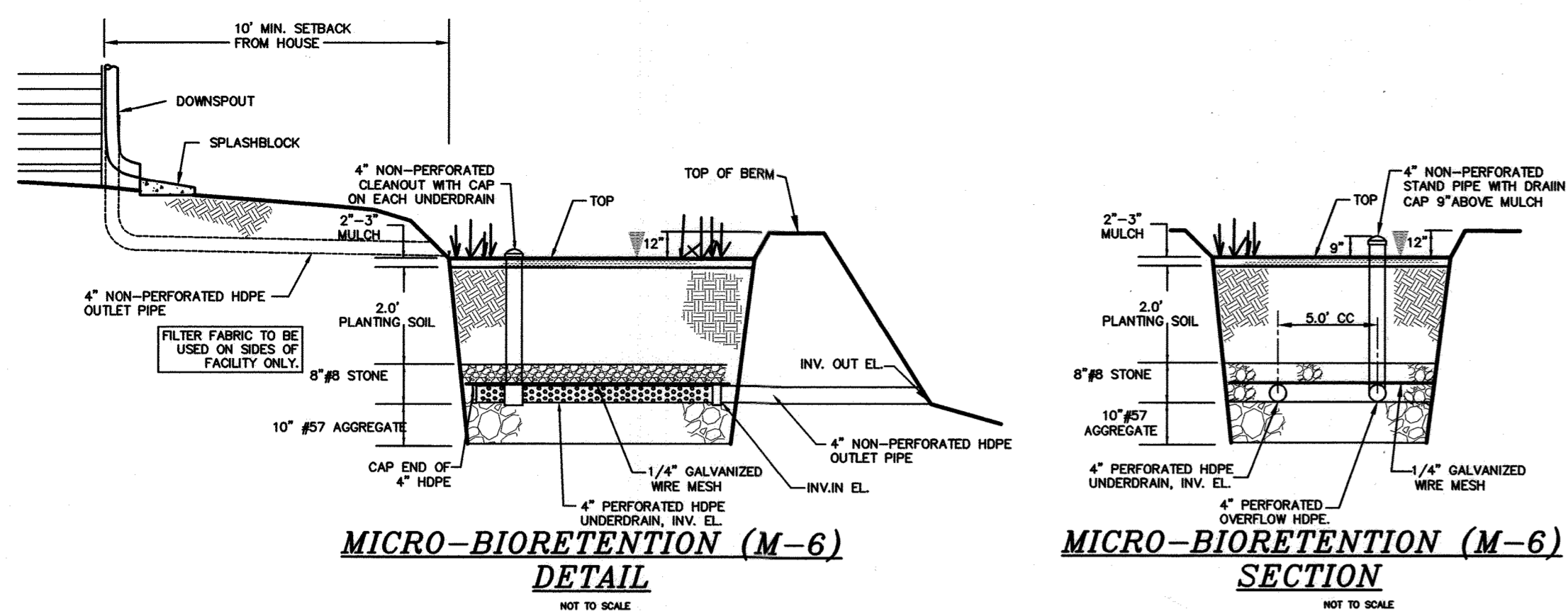
THERE IS NO AS-BUILT INFORMATION PROVIDED ON THIS SHEET

project	16-015	date	AUG. 2018
illustration	MMM	engineering	MMM
scale	1"=30'	approval	RHF

REV	DESCRIPTION	DATE
1	REV. GRADING LOCATION TO THE RIVER, ET. AL.	

SOMERVILLE ESTATES
 LOTS 1-7 AND OPEN SPACE LOTS 8-10
 TAX MAP 37, GRID 14, PARCEL 532
 FIRST ELECTION DISTRICT
 LANDSCAPE AND FOREST CONSERVATION PLAN
 HOWARD COUNTY, MARYLAND

MILDENBERG, BOENDER & ASSOC., INC.
 Surveyors
 Engineers
 Planners
 7350-B Crues Drive, Columbia, Maryland 21044
 (410) 997-0296 Tel. (410) 997-0288 Fax.



TYP. MICRO-BIORETENTION (M-6) DETAIL
SCALE: NTS

OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)

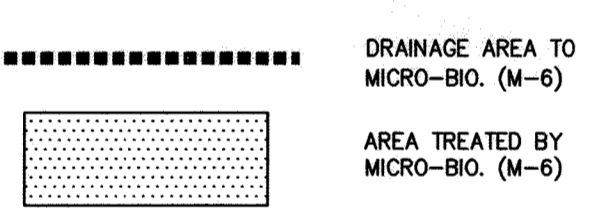
ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING. ACCEPTABLE REPLACEMENT PLANT MATERIAL IS LIMITED TO THE FOLLOWING: 2000 MARYLAND STORMWATER DESIGN MANUAL VOLUME II, TABLE A.4.1 AND 2.

SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.

MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.

SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

LEGEND



MICRO-BIORETENTION SCHEDULE

FACILITY	TOP EL.	TOP OF BERM	INV. IN	INV. OUT	AREA AT TOP EL.
MB #1	√307.00	√508.00	√304.08	303.2	22.0 D SF
MB #2	√313.00	√314.00	√310.08	√309.50	√715 SF
MB #3	√310.00	√311.00	√307.08	302.00	237.0 SF

SWM PRACTICES SCHEDULE

PROPOSED PRACTICES	AREA	REQUIRED ESDV	PROVIDED ESDV
MB#1	LOT 1, P/O LOT 2, 3, 7, ROW	1,526 CF	3,288 CF
MB#2	P/O LOT 5-7	418 CF	1,315 CF
MB#3	UNC D-WAY, P/O LOT 2-7	1,385 CF	4,780 CF
TOTAL		7,562 CF	9,343 CF

* BY DESIGNING ESD MEASURES FOR "WOODS IN GOOD CONDITION", WD, R6, AND C2 REQUIREMENTS ARE MET.

* STORMWATER MANAGEMENT QUANTITY CONTROL FOR THE 10- AND 100-YEAR (Qp, Q1) STORM EVENTS ARE MET.

GEOTECHNICAL CONSULTANTS, INC.
PO Box 2071
Columbia, MD 21045-2071
Phone: (410) 381-5330
Fax: (410) 351-1064
e-mail: moenir54@yahoo.com

President: Moenir Aboukhatir, M.S.E., P.E.
CONSULTANTS: Edward De Santis, Reg. CE, PE • Dr. Kamel Tawfik, Ph.D., PE

May 7, 2017

Mildenberg, Boender & Associates, Inc.
7350-B Grace Drive
Columbia, Maryland 21044

Attn: Mr. Moenir M. Aboukhatir
Vice President

Ref: Limited Subsurface Exploration
Proposed Development:
7126 Forever Green Court
Elkridge
Howard County, Maryland 21075
Tax Map 37, Grid 14, Parcel 532,
GE&T Project No. G-251

Dear Mr. Mildenberg:

On May 7, 2017, GE&T Consultants, Inc. utilized a Geoprobe 7822SD to bore three (3) soil borings (B-1 through B-3) to a depth of 10 ft below existing site grades at the locations shown on the attached Borehole Location Map. The purpose of the study was to evaluate the presence/absence of bedrock and local groundwater at the locations shown, within the depths required. The number, location, and depth of the borings were determined by others and the borings were marked-out in the field by others.

No groundwater or bedrock was encountered in any of the borings to a depth of 10 ft below existing site grades during our drilling operations.

Our field observations are listed in Table 1 below:

Boring No.	Depth to Groundwater (ft)	Depth to Geoprobe Refusal (ft)
B-1	N/A	N/A
B-2	N/A	N/A
B-3	N/A	N/A

Note: All depths are below existing site grades.

It should be noted that the actual level of groundwater and the amount and level of perched water should be anticipated to fluctuate through the year, depending on variations in precipitation, surface run-off, infiltration, site topography, drainage, and other factors not evident at the time of our exploration. GE&T can not be responsible for changes in groundwater conditions at the site due to seasonal variations and changes caused by other factors such as grading operations at the site. It should also be noted that soil description listed in the boring logs was based on visual classification and no laboratory testing was performed.

GE&T appreciates the opportunity to provide this geotechnical engineering service to you. Should you have any questions regarding this letter report, or require additional services, please feel free to contact our office.

Sincerely,
Moenir Aboukhatir, PE

GE&T Consultants, Inc.

ENGINEER'S 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 OF ENGINEER: *R. Jacob Hikmat*
DATE: 8/14/18

R. JACOB HIKMAT, PE.
PRINTED NAME OF ENGINEER

DEVELOPERS CERTIFICATE

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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. HOWARD SOIL CONSERVATION DISTRICT IS AUTHORIZED TO CONDUCT PERIODIC ON-SITE INSPECTION.

SIGNATURE OF DEVELOPER: *W.M. Scott Goodstrey*
DATE: 09/14/18

W.M. SCOTT GOODSTREY
PRINTED NAME OF DEVELOPER

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

APPROVED: DEPARTMENT OF PUBLIC WORKS
8/28/18

APPROVED: DEPARTMENT OF PLANNING AND ZONING
9/13/2017

APPROVED: DEPARTMENT OF PLANNING AND ZONING
9-21-18

CHIEF, DEVELOPMENT ENGINEERING DIVISION
7 Mamhardt, P.A.K.S.
CHIEF, DIVISION OF LAND DEVELOPMENT
9-25-18

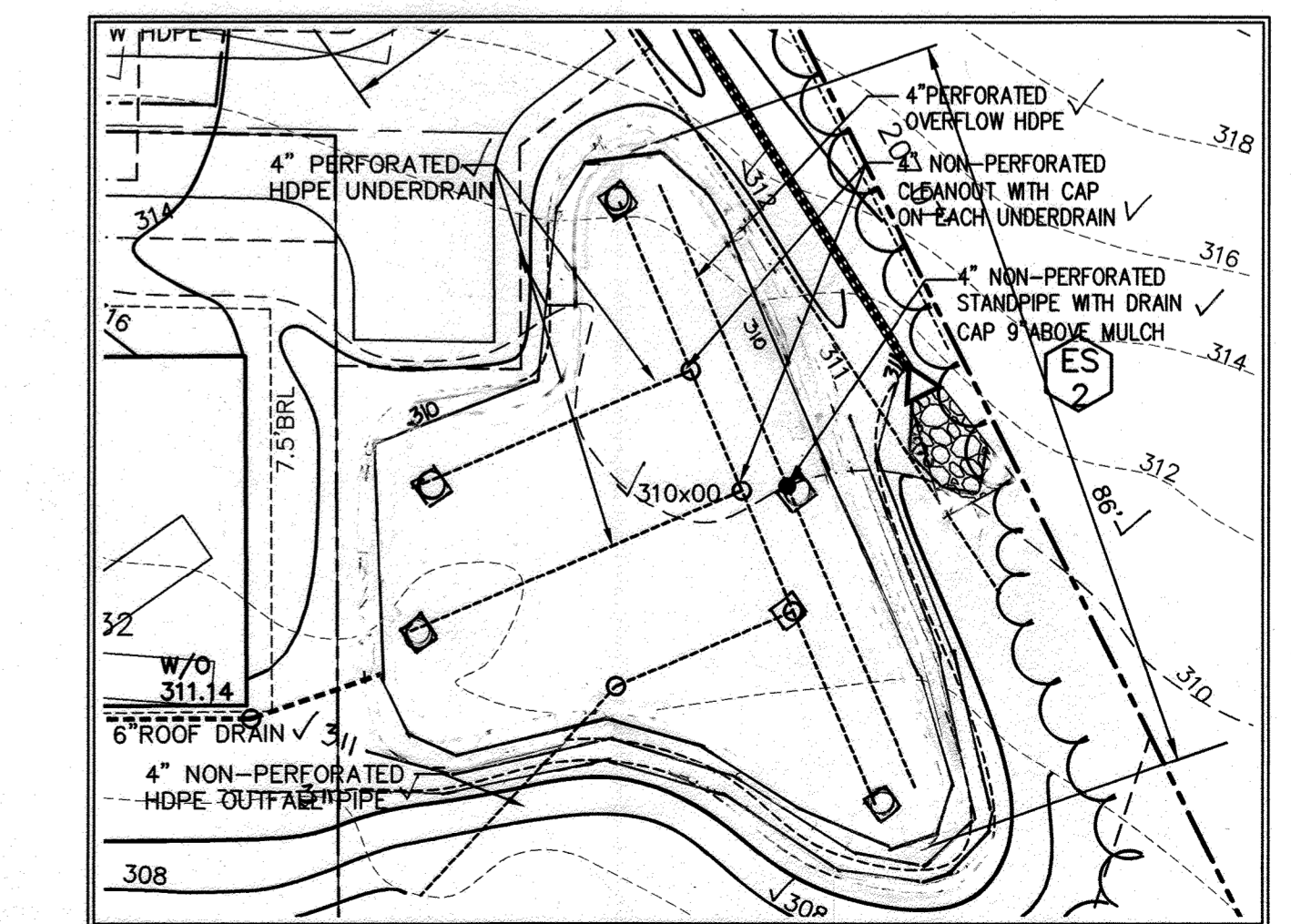
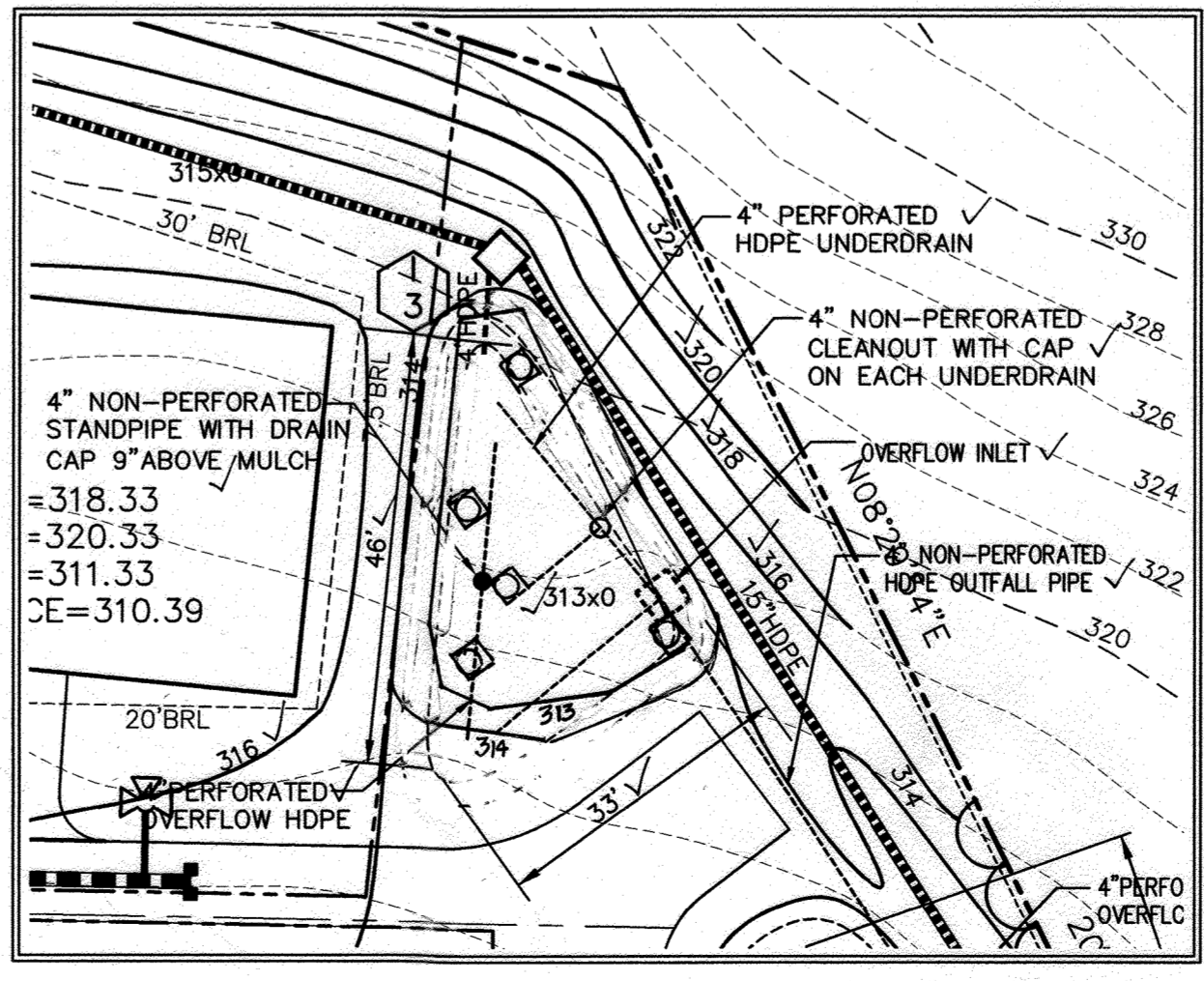
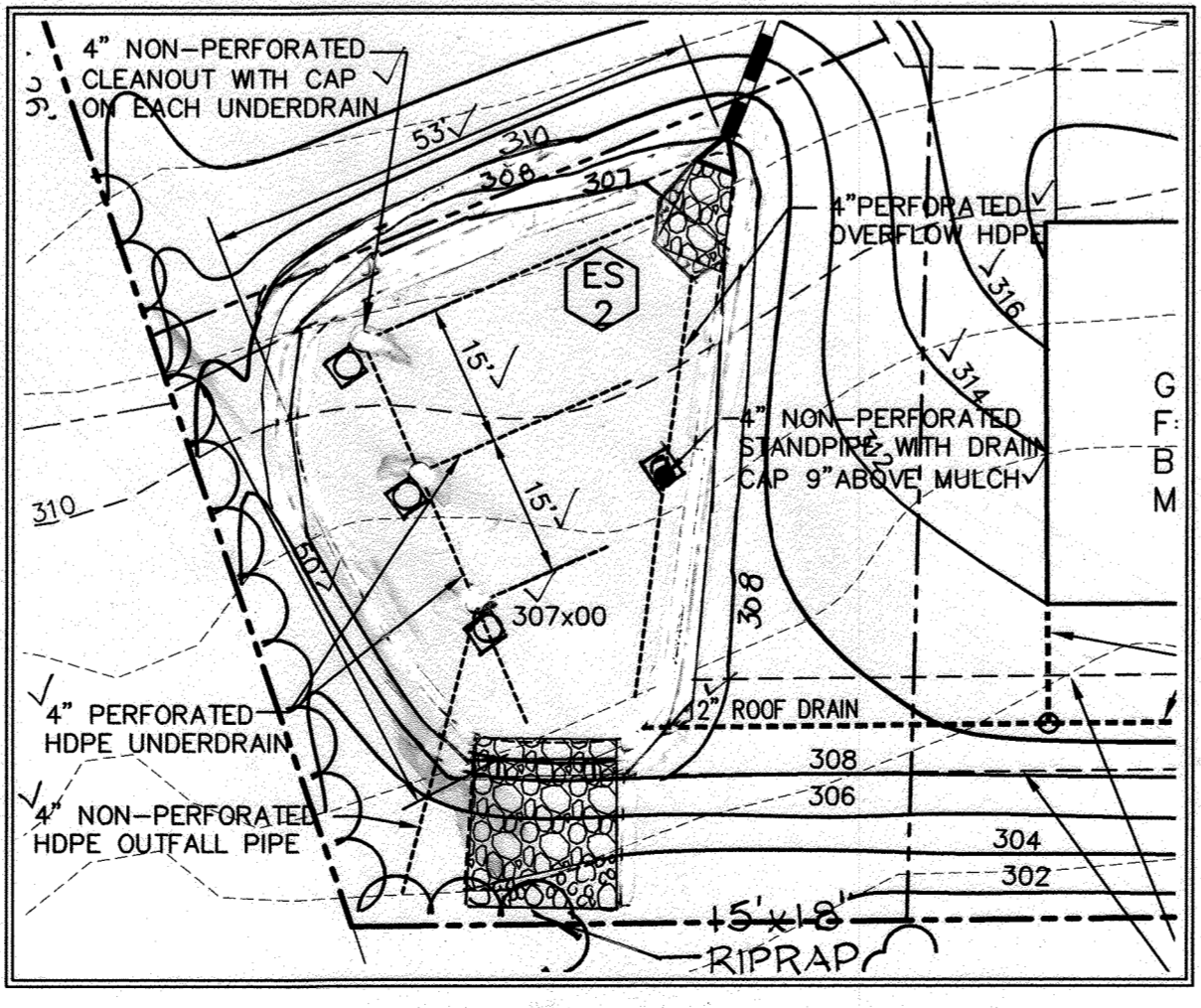
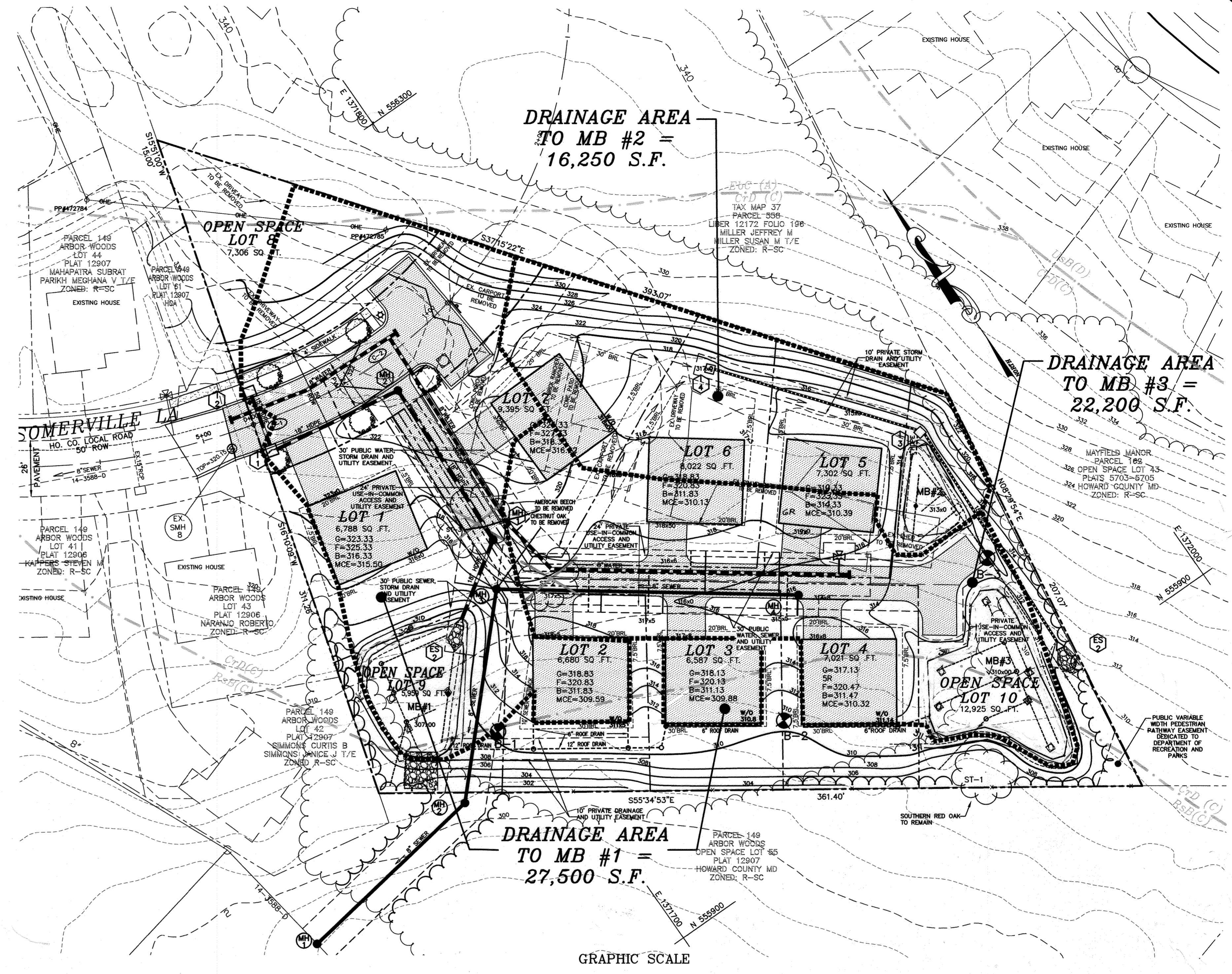
OWNER
HARMONY BUILDERS
4222 COLUMBIA RD.
ELLCOTT CITY, MD, 21042
(410) 461-0833

I hereby certify that the facility shown on this plan was constructed as shown on the 'As-Built' plans and meets with the approved plans and specifications.

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. 17942, EXP DATE 09/03/20

8/14/18

R. JACOB HIKMAT, P.E.



P: 12004116-015 FOREVER GREEN (DWC) ROAD PLANS.dwg

date	AUG. 2018
project	16-015
illustration	MMM
scale	1"=30'
revision	1
description	Rev. 01/28/18
no.	2
date	JAN 28 2018
description	ADD AS-BUILT DATA
revisions	1
no.	1
description	Rev. 01/28/18
no.	2
description	Rev. 01/28/18

SOMERVILLE ESTATES
LOTS 1-7 AND OPEN SPACE LOTS 8-10
TAX MAP 37, GRID 14, PARCEL 532
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SWM PLAN AND DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
7350-B Grace Drive, Columbia, Maryland 21044
(410) 997-0296 Tel. (410) 997-0298 Fax.