

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	OVERALL PLAN
3	GEOMETRY PLAN
4	SITE DEVELOPMENT PLAN
5	SCEDIMENT AND EROSION CONTROL PLAN
6	SCEDIMENT AND EROSION CONTROL NOTES AND DETAILS
7	STORMWATER MANAGEMENT NOTES AND DETAILS

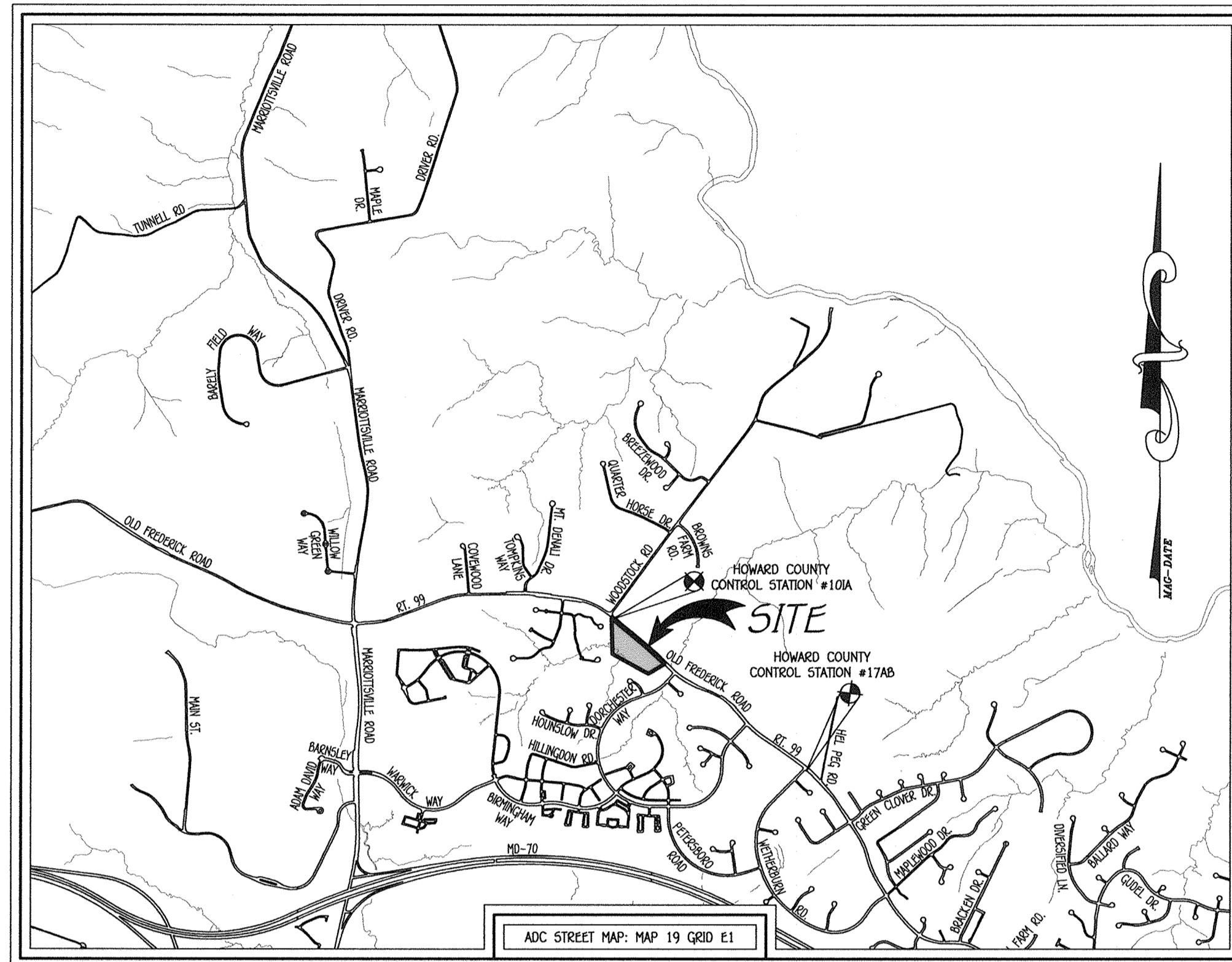
SITE DEVELOPMENT PLAN WAVERLY GROVE LOTS 1 THRU 30

ZONING: R-SA-8 (RESIDENTIAL: SINGLE CLUSTER) DISTRICT TAX MAP No. 16 GRID No. 6 PARCEL No. 25

SITE ANALYSIS DATA CHART

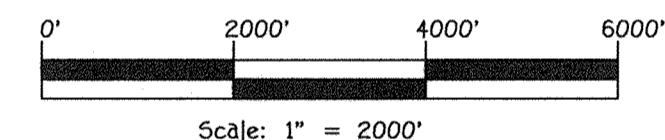
- A. TOTAL AREA OF THIS SUBMISSION = 1.73 AC.
 B. LIMIT OF DISTURBED AREA = 1.73 AC.
 C. PRESENT ZONING DESIGNATION = R-SA-8 PER 10/6/13 COMPREHENSIVE ZONING PLAN
 D. PROPOSED USE: RESIDENTIAL (SINGLE FAMILY ATTACHED HOUSING)
 E. TOTAL NUMBER OF UNITS PROPOSED: 30 UNITS
 F. OPEN SPACE: 6.266 ACRES (PREVIOUSLY PROVIDED BY F-16-101).
 TOTAL CREDITED AREA = 5.567 ACRES
 TOTAL NON-CREDITED AREA = 0.730 ACRES
 G. PROVIDED RECREATIONAL AREA = 16,032 SQUARE FEET (PREVIOUSLY PROVIDED BY F-16-101)
 (1) RECREATIONAL AREA (OPEN SPACE LOT 32) = 7,080 SQ.FT.
 (2) GAZEBO (12" DIAMETER) = 2,000 SQUARE FEET
 (3) PATHWAY
 (869 L.F. X 4 SQ. FT./L.F.) = 3,476 SQ. FT. X 2 = 6,952 SQ. FT. (SEE NOTE (1))
- NOTE: (1)
 AMENITY CREDITS BASED ON SQUARE FOOTAGE:
 2 SQ. FT. OF RECREATIONAL AREA PER 1 SQ. FT. OF MACADAMY PATHWAY
- NOTE: (2)
 A 15' USEABLE REAR YARD HAS BEEN PROVIDED FOR LOTS 1-15 & 21-30. AN ADDITIONAL 1,500 SQ. FT. OF RECREATIONAL OPEN SPACE HAS BEEN PROVIDED FOR THE REMAINING 5 LOTS; 16-20, BASED ON 300 SQ. FT. X 5 = 1,500 SQ. FT. IN ACCORDANCE WITH SECTION 110.0.E OF THE ZONING REGULATIONS.
- H. PREVIOUS HOWARD COUNTY FILES: SDP-86-88, 5-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001, WP-16-069, WP-18-023 AND F-16-101
 I. TOTAL AREA OF FLOODPLAIN LOCATED ON SITE 0.00 AC.
 J. TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.00 AC.
 K. TOTAL IMPERVIOUS AREA = 1.04 AC.
 L. NET TRACT AREA = 1.734 AC.
 (TOTAL SITE AREA - FLOODPLAIN - STEEP SLOPES IN EXCESS OF 25%)
 (1.734 AC. - 0.00 AC. - 0.00 AC. = 1.734 AC.)
 M. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 AC.
 N. TOTAL FOREST 0.00 AC.
 O. BUILDING COVERAGE OF SITE: 49%
 P. TOTAL GREEN OPEN AREA = 0.49 AC.
 Q. AREA OF ESCAPEABLE SOILS = 0.00 AC.
 R. TOTAL NUMBER OF PARKING SPACES REQUIRED = 75 SPACES
 (1) TOWNHOUSE PARKING REQUIRED = 60 SPACES
 (30 SFA X 2 SPACES/UNITS)
 (2) OVERFLOW PARKING REQUIRED = 15 SPACES
 (0.5 SPACES X 30 SFA = 15)
 S. TOTAL NUMBER OF PARKING SPACES PROVIDED = 134 SPACES
 (1) SINGLE FAMILY ATTACHED PARKING AREAS = 116 SPACES
 (2 SPACES IN GARAGE + 2 SPACES ON PAD/LOT X 29 LOTS)
 (2 SPACES IN GARAGE + 1 SPACES ON PAD X 1 LOT)
 (2) ON-STREET PARKING SPACES = 15 SPACES

LEGEND	
SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM DRAIN LINE
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	WETLAND AREA
---	25' WETLAND BUFFER
---	75' STREAM BUFFER
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	SPOT ELEVATION
---	PROPOSED SEWER HOUSE CONNECTION
---	PROPOSED WATER HOUSE CONNECTION
---	LIMIT OF DISTURBANCE
---	SUPER SILT FENCE
---	EXISTING STREET LIGHT
---	FOREST CONSERVATION EASEMENT
---	PROPOSED DRY WELL
---	EXISTING TREE
---	PUBLIC WATER & SEWER UTILITY EASEMENT
---	STORMWATER MANAGEMENT FACILITY
---	RECREATIONAL OPEN SPACE
---	PRIVATE PATH, RETAINING WALL AND MAINTENANCE EASEMENT



HOWARD COUNTY
 GEODETIC SURVEY CONTROL NO. 101A
 N 600995.133
 E 134615.301
 ELEVATION: 441.902'

HOWARD COUNTY
 GEODETIC SURVEY CONTROL NO. 17AB
 N 598435.302
 E 134615.301
 ELEVATION: 508.401'



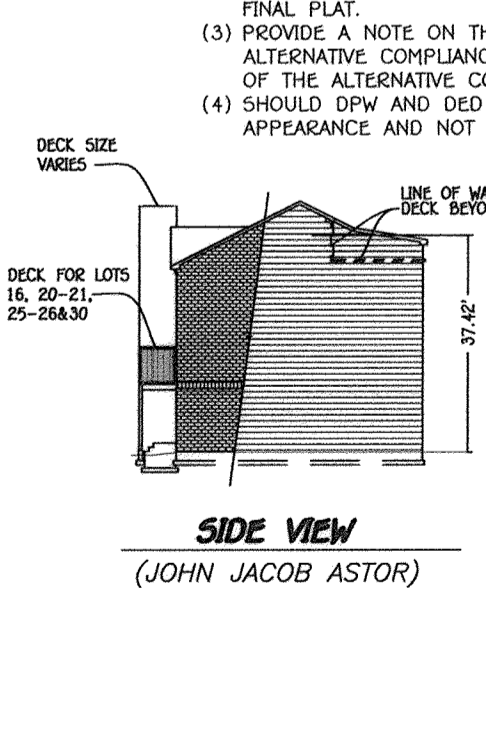
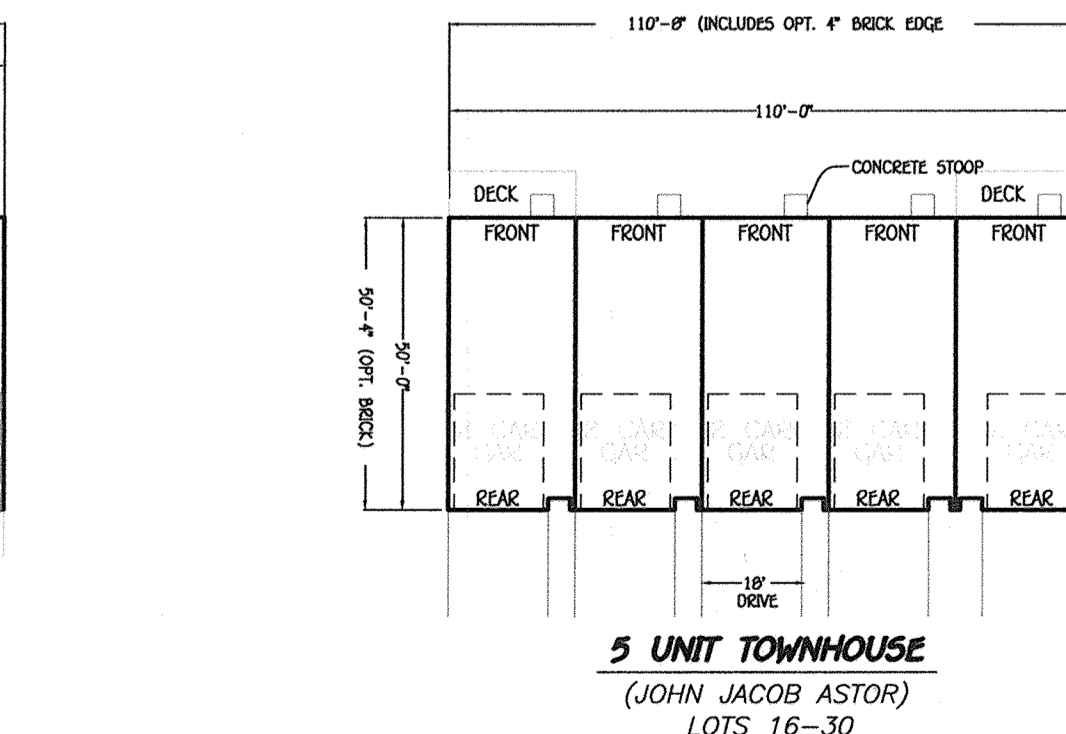
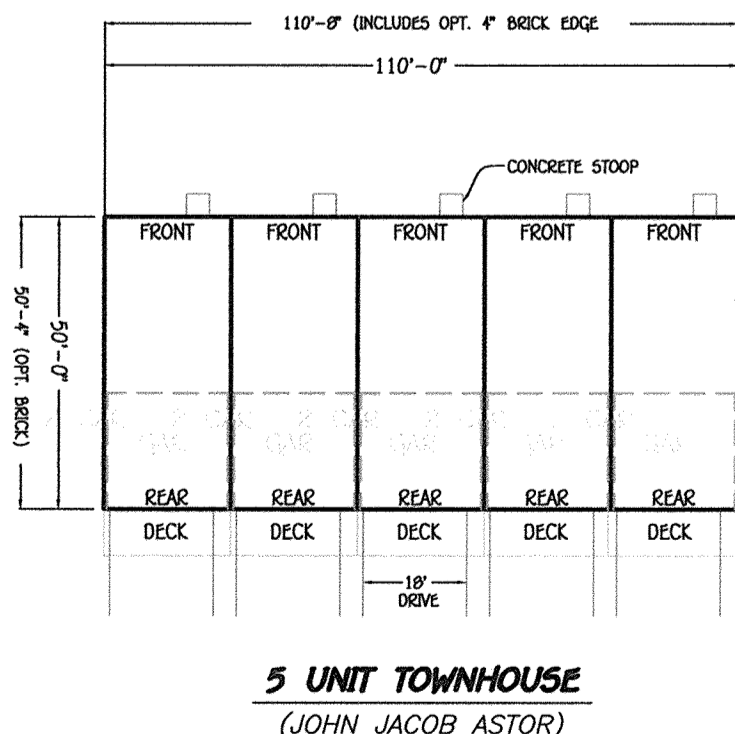
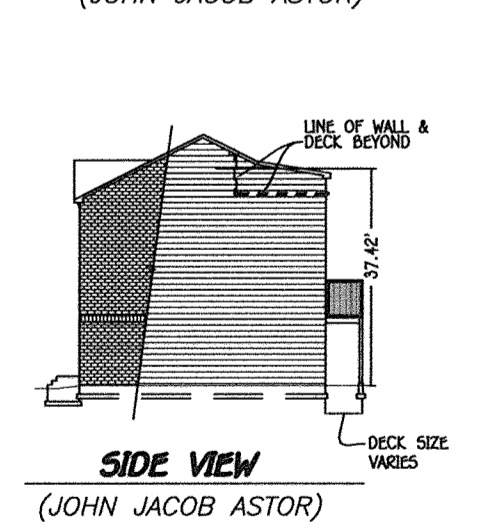
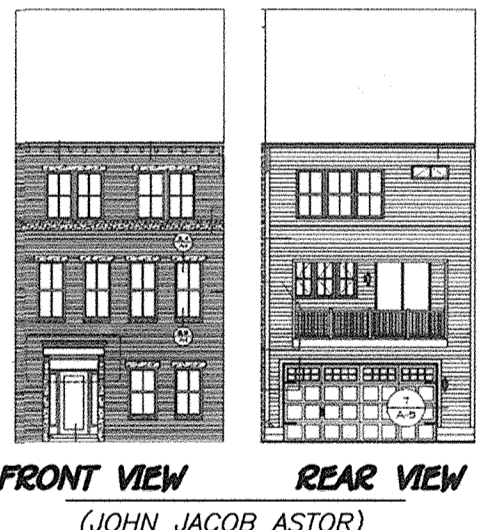
VICINITY MAP
 SCALE: 1" = 2000'

ADDRESS CHART

LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS
1	10512 MY GRL PLACE	16	10543 MY GRL PLACE
2	10514 MY GRL PLACE	17	10541 MY GRL PLACE
3	10516 MY GRL PLACE	18	10539 MY GRL PLACE
4	10518 MY GRL PLACE	19	10537 MY GRL PLACE
5	10520 MY GRL PLACE	20	10535 MY GRL PLACE
6	10524 MY GRL PLACE	21	10531 MY GRL PLACE
7	10526 MY GRL PLACE	22	10529 MY GRL PLACE
8	10528 MY GRL PLACE	23	10527 MY GRL PLACE
9	10530 MY GRL PLACE	24	10525 MY GRL PLACE
10	10532 MY GRL PLACE	25	10523 MY GRL PLACE
11	10536 MY GRL PLACE	26	10519 MY GRL PLACE
12	10538 MY GRL PLACE	27	10517 MY GRL PLACE
13	10540 MY GRL PLACE	28	10515 MY GRL PLACE
14	10542 MY GRL PLACE	29	10513 MY GRL PLACE
15	10544 MY GRL PLACE	30	10511 MY GRL PLACE

STORMWATER MANAGEMENT PRACTICES

STREET ADDRESS	AREA ID	DRY WELLS M-5 (Y/N)	BIO-RETENTION M-6 (Y/N)	BIO-RETENTION F-6 (Y/N)	FILTER/A INLET TIL (Y/N)
10512 MY GRL PLACE	LOT 1	Y	Y	Y	Y
10514 MY GRL PLACE	LOT 2	Y	Y	Y	Y
10516 MY GRL PLACE	LOT 3	Y	Y	Y	Y
10518 MY GRL PLACE	LOT 4	Y	Y	Y	Y
10520 MY GRL PLACE	LOT 5	Y	Y	Y	Y
10524 MY GRL PLACE	LOT 6	Y	Y	Y	Y
10526 MY GRL PLACE	LOT 7	Y	Y	Y	Y
10528 MY GRL PLACE	LOT 8	Y	Y	Y	Y
10530 MY GRL PLACE	LOT 9	Y	Y	Y	Y
10532 MY GRL PLACE	LOT 10	Y	Y	Y	Y
10536 MY GRL PLACE	LOT 11	Y	Y	Y	Y
10538 MY GRL PLACE	LOT 12	Y	Y	Y	Y
10540 MY GRL PLACE	LOT 13	Y	Y	Y	Y
10542 MY GRL PLACE	LOT 14	Y	Y	Y	Y
10544 MY GRL PLACE	LOT 15	Y	Y	Y	Y
10543 MY GRL PLACE	LOT 16	Y	Y	Y	Y
10541 MY GRL PLACE	LOT 17	Y	Y	Y	Y
10539 MY GRL PLACE	LOT 18	Y	Y	Y	Y
10537 MY GRL PLACE	LOT 19	Y	Y	Y	Y
10535 MY GRL PLACE	LOT 20	Y	Y	Y	Y
10531 MY GRL PLACE	LOT 21	Y	Y	Y	Y
10529 MY GRL PLACE	LOT 22	Y	Y	Y	Y
10527 MY GRL PLACE	LOT 23	Y	Y	Y	Y
10525 MY GRL PLACE	LOT 24	Y	Y	Y	Y
10523 MY GRL PLACE	LOT 25	Y	Y	Y	Y
10519 MY GRL PLACE	LOT 26	Y	Y	Y	Y
10517 MY GRL PLACE	LOT 27	Y	Y	Y	Y
10515 MY GRL PLACE	LOT 28	Y	Y	Y	Y
10513 MY GRL PLACE	LOT 29	Y	Y	Y	Y
10511 MY GRL PLACE	LOT 30	Y	Y	Y	Y



M.I.H.U. Note: Please Note that Lots 1 Thru 30 In This Subdivision Are Subject To The Moderate Income Housing Unit (M.I.H.U.) Requirement. The M.I.H.U. Agreement Is Recorded In Liber 17744, Folio 274 Identifying 5 Units.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/19.

Frank J. Hanulansky II
 FRANK J. HANULANSKY II DATE: 2-22-18



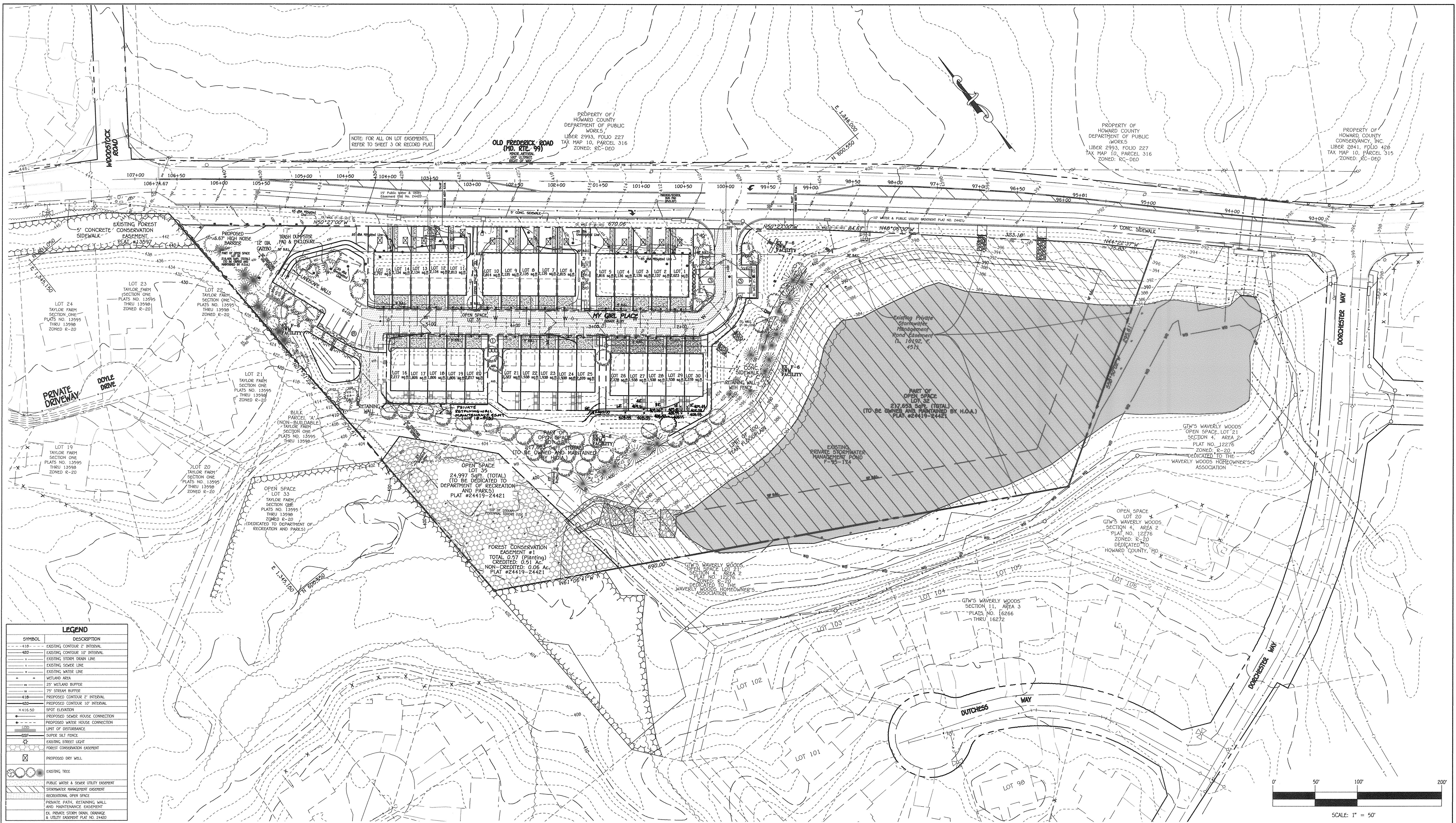
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 1072 BALTIMORE NATIONAL PIKE
 ELKTON, MARYLAND 21940
 (410) 461-2900

NO.	REVISION	DATE
1	Purpose Note Revised	1/14/19

OWNER/DEVELOPER	BUILDER
WARFIELD WOODS LLC C/O KENNARD WARFIELD JR 14451 TRIADDELPHIA ROAD PO BOX 30 GLENELG, MARYLAND 21737 410-442-2337	N.V.HOMES 9720 PATUXENT WOODS DRIVE COLUMBIA, MD 21046 BRENT HANAUER 410-379-3391

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>William L. ...</i> CHIEF, DIVISION OF LAND DEVELOPMENT	3/16/18 DATE
<i>Chad ...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	3-13-18 DATE
<i>Val ...</i> DIRECTOR - DEPARTMENT OF PLANNING AND ZONING	3-19-18 DATE
SUBDIVISION: WAVERLY GROVE	SECTION/AREA: 1 THRU 30
PLAT NO. 24419-24421	BLOCK NO. 6
ZONE R-SA-8	TAX/ZONE 16
ELEC. DIST. 3	CENSUS TR. 6069.02

TITLE SHEET	
WAVERLY GROVE LOTS 1 THRU 30	
PREVIOUS HOWARD COUNTY FILE NUMBERS: SDP-86-88, 5-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001, WP-16-069, WP-18-023, AND F-16-101	
ZONED: R-SA-8	
TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25	
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
SCALE: AS SHOWN DATE: FEBRUARY, 2018	
SHEET 1 OF 7	



LEGEND	
SYMBOL	DESCRIPTION
---410---	EXISTING CONTOUR 2' INTERVAL
---420---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM DRAIN LINE
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	WETLAND AREA
---	25' WETLAND BUFFER
---	75' STREAM BUFFER
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
x416.50	SPOT ELEVATION
---	PROPOSED SEWER HOUSE CONNECTION
---	PROPOSED WATER HOUSE CONNECTION
---	LIMIT OF DISTURBANCE
---	SMOKER SILE FENCE
---	EXISTING STREET LIGHT
---	FOREST CONSERVATION EASEMENT
---	PROPOSED DRY WELL
---	EXISTING TREE
---	PUBLIC WATER & SEWER UTILITY EASEMENT
---	STORMWATER MANAGEMENT EASEMENT
---	RECREATIONAL OPEN SPACE
---	PRIVATE PATH, RETAINING WALL AND MAINTENANCE EASEMENT
---	EX. PRIVATE STORM DRAIN ORNAMENT & UTILITY EASEMENT PLAT NO. 24420

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Handwritten Signature 2-22-18
 DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK • 10272 BALTIMORE NATIONAL PIKE
 GLENELEG, MARYLAND 21046
 (410) 461-2995



NO.	REVISION	DATE
1	ISSUING LANDSCAPE WALL & RETAINING WALL OF LOT 29 AND 30	10/9/19

OWNER/DEVELOPER
 WAVERLY WOODS LLC
 C/O KENNARD WARFIELD JR
 14451 TRIADAPLHIA ROAD
 PO BOX 30
 GLENELEG, MARYLAND 21037
 410-442-2337

BUILDER
 N.Y. HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MD 21046
 BRENT HANAUER
 410-379-3391

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Handwritten Signature 3/16/18
 CHIEF, DIVISION OF LAND DEVELOPMENT DD DATE

Handwritten Signature 3-13-18
 CHIEF, DEVELOPMENT ENGINEERING DIVISION & DATE

Handwritten Signature 3-19-18
 DIRECTOR - DEPARTMENT OF PLANNING AND ZONING DATE

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
24419-24421	6	R-SA-B	16	3	6069.02

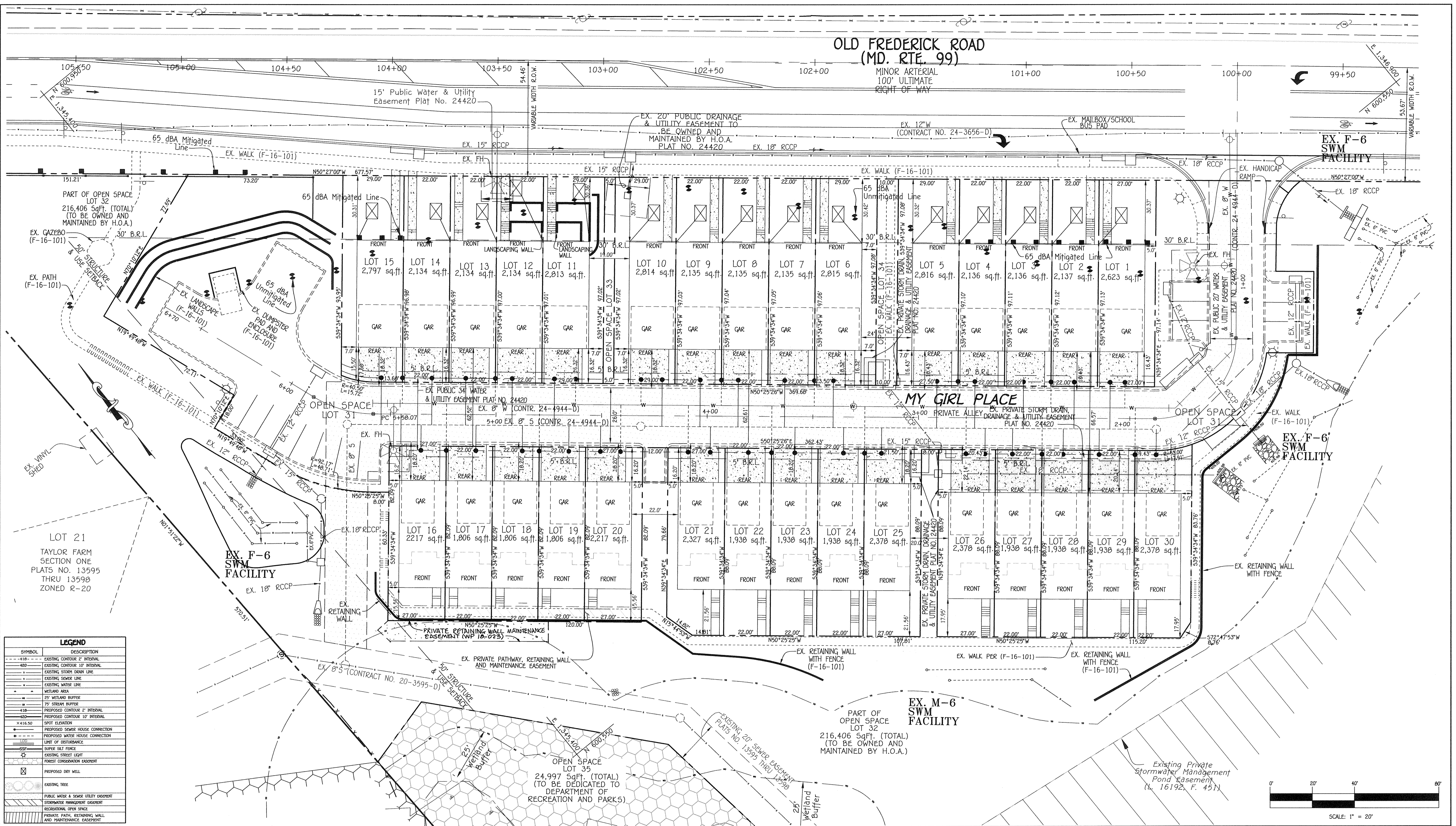
OVERALL PLAN

WAVERLY GROVE
 LOTS 1 THRU 30

PREVIOUS HOWARD COUNTY FILE NUMBERS:
 SDP-86-08, S-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001,
 WP-16-069, WP-18-023, AND F-16-101
 ZONED: R-SA-B
 TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE: FEBRUARY, 2018
 SHEET 2 OF 7

OLD FREDERICK ROAD
(MD. RTE. 99)

MINOR ARTERIAL
100' ULTIMATE
RIGHT OF WAY



LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM SEWER LINE
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	WETLAND AREA
---	25' WETLAND BUFFER
---	75' STREAM BUFFER
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	SPOT ELEVATION
---	PROPOSED SEWER HOUSE CONNECTION
---	PROPOSED WATER HOUSE CONNECTION
---	LIMIT OF DISTURBANCE
---	SUPER SALT FENCE
---	EXISTING STREET LIGHT
---	FOREST CONSERVATION EASEMENT
---	PROPOSED DRY WELL
---	EXISTING TREE
---	PUBLIC WATER & SEWER UTILITY EASEMENT
---	STORMWATER MANAGEMENT EASEMENT
---	RECREATION OPEN SPACE
---	PRIVATE PATH, RETAINING WALL AND MAINTENANCE EASEMENT

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Frank J. Hanalangan II 2-22-18 DATE

FRANK J. HANALANGAN II

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
ELKTON, MD 21828
(410) 461-2995

NO.	REVISION	DATE
1	REMOVE LANDSCAPE WALL	10/9/18

OWNER/DEVELOPER
WARFIELD WOODS LLC
C/O KENNARD WARFIELD JR
14451 TRIADAPHA ROAD
PO BOX 30
GLENELG, MARYLAND 21737
410-442-2337

BUILDER
N.V. HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
BRENT HANAUER
410-379-3391

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Julian Haney 3/16/18 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

Chris Elmer 3-13-18 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Valeria Zylina 3-19-18 DATE
DIRECTOR - DEPARTMENT OF PLANNING AND ZONING

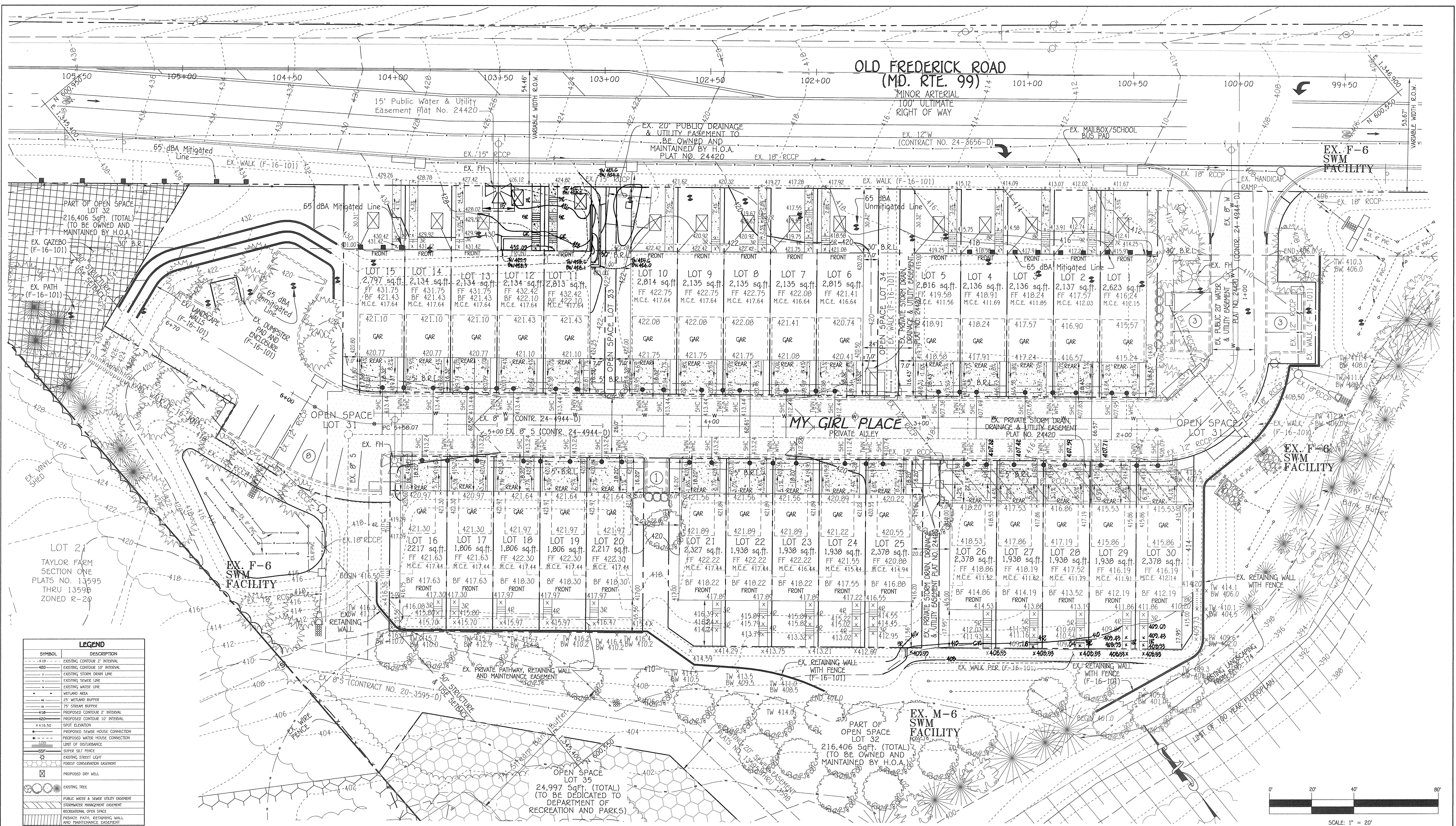
SUBDIVISION	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
WAVERLY GROVE	6	R-SA-B	16	3	6069.02

GEOMETRY PLAN

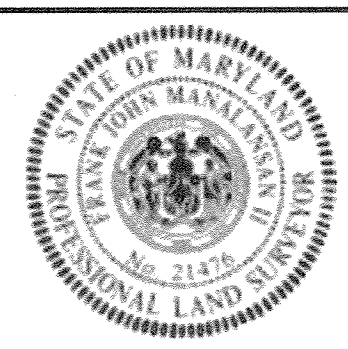
**WAVERLY GROVE
LOTS 1 THRU 30**

PREVIOUS HOWARD COUNTY FILE NUMBERS:
SOP-86-08, S-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001,
WP-16-069, WP-18-023, AND F-16-101

ZONED: R-SA-B
TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25
THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
SCALE: 1" = 20' DATE: FEBRUARY, 2018
SHEET 3 OF 7



PROFESSIONAL CERTIFICATION
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Frank Manalangan II 2-22-18
 DATE



NO.	REVISION	DATE
2	REMOVE LANDSCAPE WALL & ASPHALT, LOTS 11 & 12	3/19/18
1	REMOVE LANDSCAPE WALL & RECONSTRUCT REAR OF LOTS 19 THRU 30	10/19/18

OWNER/DEVELOPER
 WARFIELD WOODS LLC
 C/O KENNARD WARFIELD JR
 14451 TRIADPHIA ROAD
 PO BOX 30
 GLENELG, MARYLAND 21737
 410-442-2337

BUILDER
 N.V. HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MD 21046
 BRENT HANAUER
 410-379-3391

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Director of Land Development
 3/16/18
 DATE

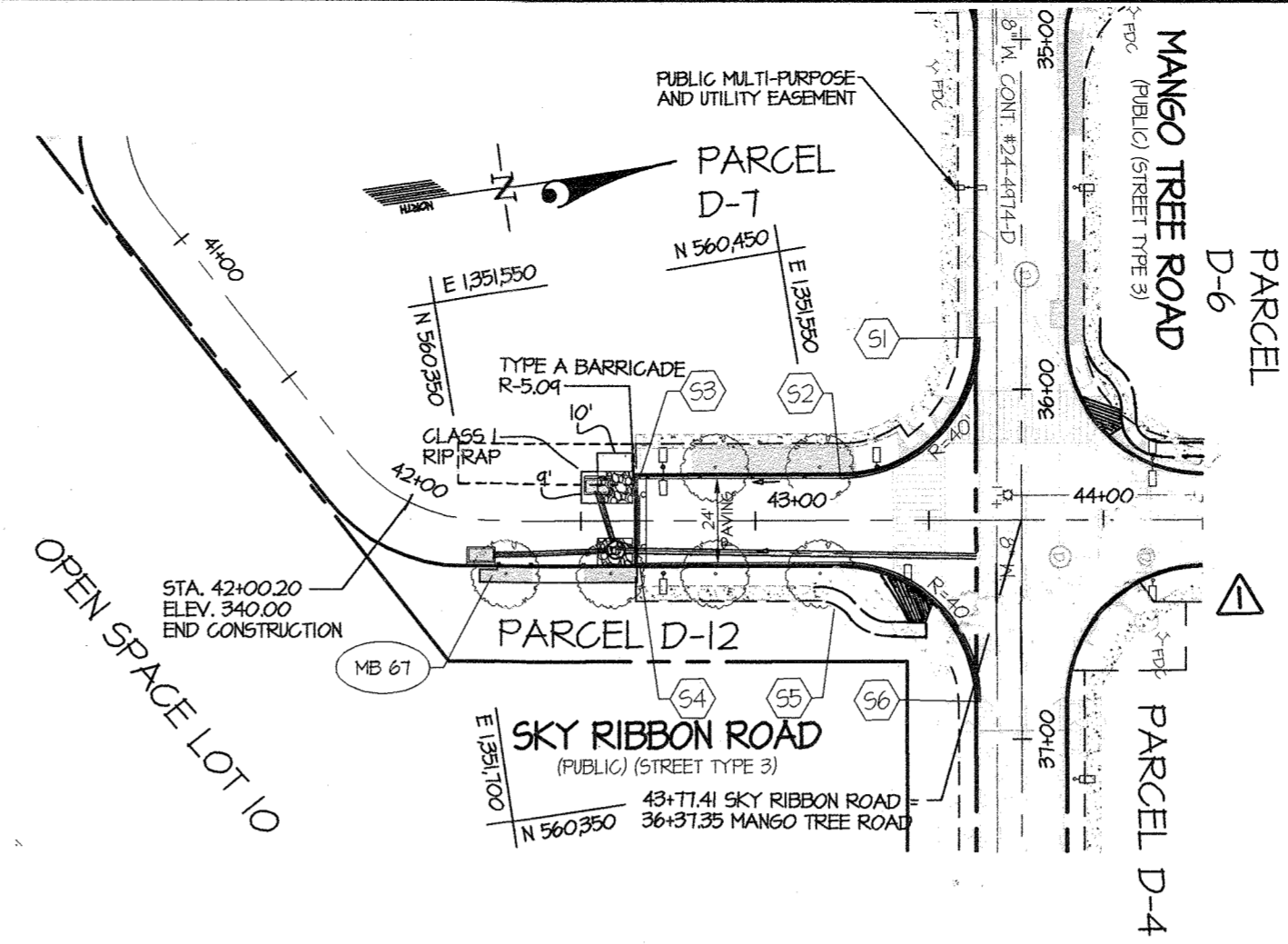
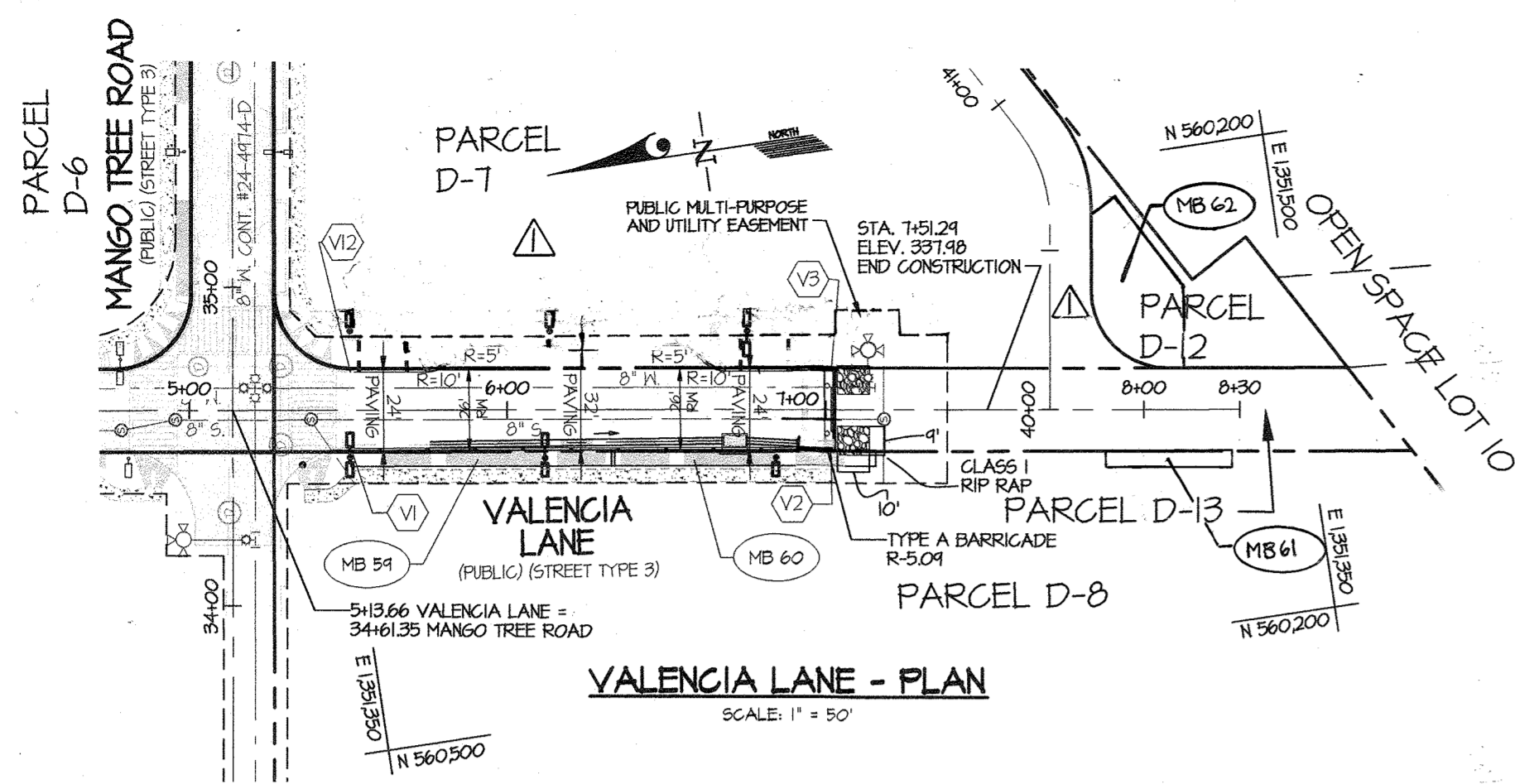
Chief, Development Engineering Division
 3-13-18
 DATE

Director - Department of Planning and Zoning
 3-19-18
 DATE

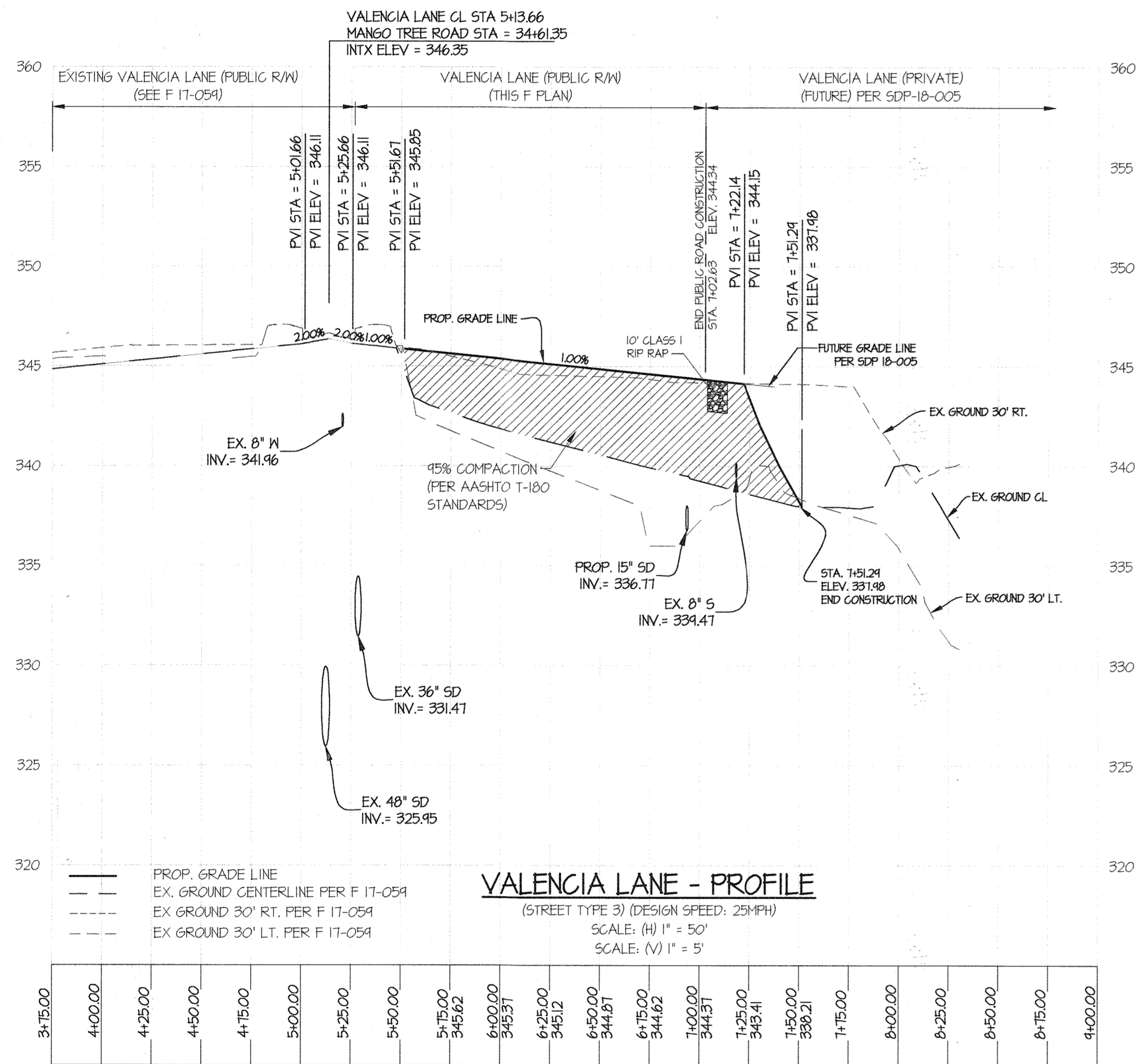
PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
24419-24421	6	R-SA-B	16	3	6069.02

SITE DEVELOPMENT PLAN
WAVERLY GROVE
 LOTS 1 THRU 30

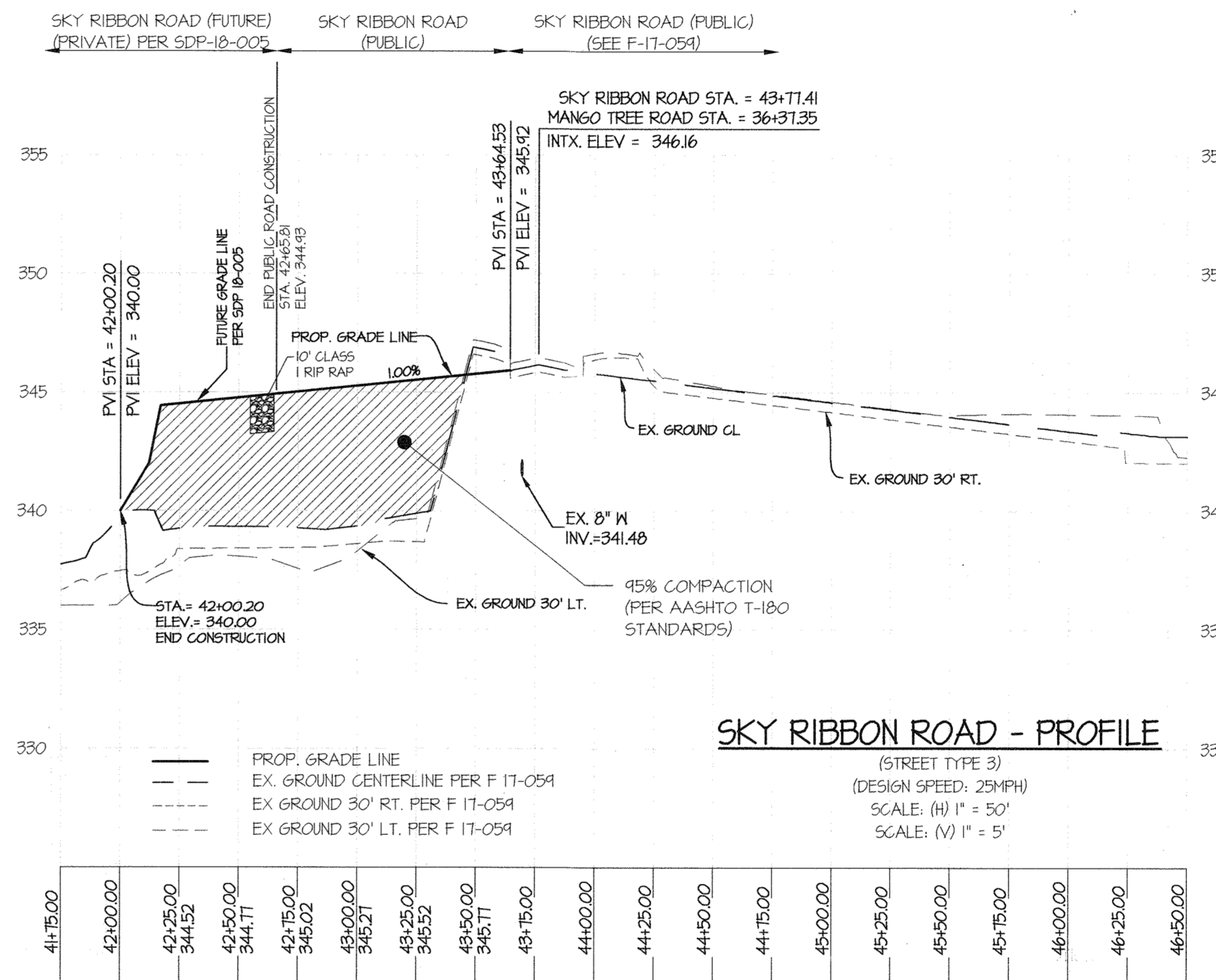
PREVIOUS HOWARD COUNTY FILE NUMBERS:
 SDP-86-88, S-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001,
 WP-16-069, WP-18-023, AND F-16-101
 ZONED: R-SA-B
 TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 20' DATE: FEBRUARY, 2018
 SHEET 4 OF 7



SKY RIBBON ROAD - PLAN
SCALE: 1" = 50'



VALENCIA LANE - PROFILE
(STREET TYPE 3) (DESIGN SPEED: 25MPH)
SCALE: (H) 1" = 50'
SCALE: (V) 1" = 5'



SKY RIBBON ROAD - PROFILE
(STREET TYPE 3)
(DESIGN SPEED: 25MPH)
SCALE: (H) 1" = 50'
SCALE: (V) 1" = 5'

GENERAL NOTES:

- SEE SHEET 3 FOR EXISTING ITEMS TO BE REMOVED AND BEARINGS AND DISTANCES.
- SEE SHEET 6 FOR TYPICAL ROAD SECTIONS.
- SEE SHEET 6 FOR CURB DETAILS.
- SEE SHEET 12 FOR FLOODPLAIN CROSS SECTION AND WSEL'S.
- SEE SHEETS 7-8 FOR STORM DRAIN INFORMATION.
- SEE SHEETS 10 FOR STREET TREES AND STREET LIGHTS.
- ON MAY 9, 2016 HOWARD COUNTY DEPT. OF PLANNING & ZONING DETERMINED THAT THE DISTURBANCES TO ENVIRONMENTAL SENSITIVE AREAS FOR THE IMPROVEMENTS SHOWN WITHIN THIS FINAL PLAN ARE ESSENTIAL AND NECESSARY.
- TRAFFIC BARRICADES AND CLASS 1 RIP RAP SHOWN AT END OF PUBLIC ROAD CONSTRUCTION SHALL NOT BE REQUIRED IF THE CONSTRUCTION OF SKY RIBBON ROAD (PUBLIC), VALENCIA LANE (PUBLIC), AND THEIR CORRESPONDING PRIVATE ROAD EXTENSIONS AS A PART OF SDP 18-005 OCCUR CONCURRENTLY.
- SEE SDP 18-005 FOR THE SPOT ELEVATIONS TO CONSTRUCT THE HANDICAP RAMPS AT THE INTERSECTION OF MANGO TREE ROAD AND SKY RIBBON ROAD AND THE INTERSECTION OF MANGO TREE ROAD AND VALENCIA LANE.
- CURB CUTS ON EAST SIDE OF DOVE SAIL LANE TO BE COORDINATED WITH SRM DEVICES BEING CONSTRUCTED UNDER SDP 17-021.
- ALL EX. 8" WATER AND SEWER PER CONTRACT #24-4414-D.
- ALL EX. STORM DRAIN PER F-11-054.

BOND NOTES:

THE STREET TREES, STREET LIGHTS, 4' CONCRETE SIDEWALKS, AND SIDEWALK RAMPS (PER HOWARD COUNTY DETAIL R-4.03) ARE SHOWN FOR BONDING PURPOSES ONLY. THE IMPROVEMENTS ALONG THE ROAD FRONTAGE ARE TO BE CONSTRUCTED AS PART OF SDP 17-021 AND SDP 18-005. THEY WILL ONLY BE CONSTRUCTED AS A PART OF THESE PLANS IF NEEDED PRIOR TO THE COMPLETION OF THE STREETScape ASSOCIATED WITH SDP 17-021 AND SDP 18-005.

LEGEND

- SB 50' STREAM / BANK BUFFER
- WB 25' WETLAND BUFFER
- FLOODPLAIN
- CONCRETE WALKS
- ASPHALT PATH
- PLANTER
- TREE PIT (M-6)
- ERL-1 2014 ENVIRONMENTAL RESTORATION LIMITS
- ERL-2 2016 ENVIRONMENTAL RESTORATION LIMITS
- BOND NOTE REFERENCE

PT. NO.	STATION	OFFSET	ELEV.
(V1)	---	---	MATCH EX.
(V2)	7+01.66	12.0' R	344.04
(V3)	7+01.66	12.0' L	344.04
(V4)	---	---	MATCH EX.

PT. NO.	STATION	OFFSET	ELEV.
(S1)	---	---	MATCH EX.
(S2)	43+24.5	12.0' L	345.26
(S3)	42+66.8	12.0' R	344.68
(S4)	42+66.8	12.0' L	344.68
(S5)	43+24.5	12.0' R	345.26
(S6)	---	---	MATCH EX.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] *[Signature]*
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] *[Signature]*
 Chief, Division of Land Development Date
[Signature] *[Signature]*
 Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/WA: 301-989-2524 FAX: 301-421-4186

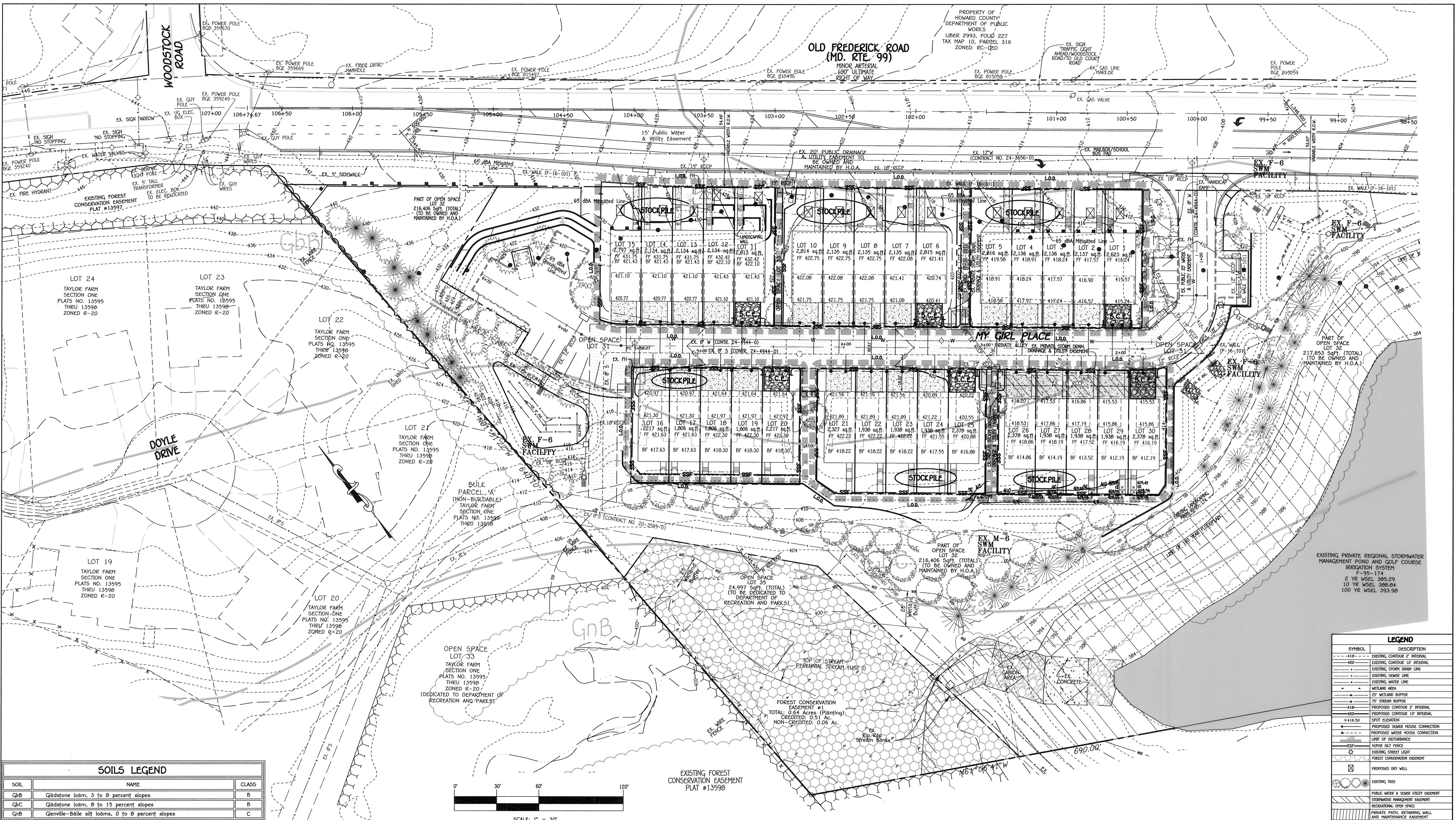
NO.	DATE	REVISION	BY	APP'R.
1	7-29-19	REV FLOW LINE, REMOVED EX. PLANTER, CROSSWALKS, RAMPS, ADDED EX. MICRO-DIOTS	3+	DEV.

PREPARED FOR:
 THE HOWARD HUGHES CORPORATION
 10480 LITTLE PATUXENT PARKWAY
 SUITE 400
 COLUMBIA, MARYLAND 21044
 ATTN: BILL ROWE
 410-964-4987

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS 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. 12975
 EXPIRATION DATE: MAY 26, 2018
[Signature]
 5/3/18

SKY RIBBON ROAD and VALENCIA LANE - PLAN and PROFILE
DOWNTOWN COLUMBIA
CRESCENT NEIGHBORHOOD
DOVE SAIL LANE, SKY RIBBON ROAD and VALENCIA LANE
 ELECTION DISTRICT No. 5
 HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=50'	NT	11071
DATE	TAX MAP - GRID	SHEET
MAY, 2018	36 - 01	5 OF 24



SOIL	NAME	CLASS
GbB	Gladstone loam, 3 to 8 percent slopes	B
GbC	Gladstone loam, 8 to 15 percent slopes	B
GnB	Glenville-Balle silt loams, 0 to 8 percent slopes	C

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/19.
 Frank J. Manalangan II 2/21/18
 FRANK J. MANALANGAN II DATE



FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10722 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2295

SURVEYOR'S CERTIFICATE
 "I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 Frank J. Manalangan II 2/21/18
 SIGNATURE DATE

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
 Brady Post 2/21/18
 SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 John K. Roberts 2/21/18
 SIGNATURE DATE

OWNER/DEVELOPER
 WARFIELD WOODS LLC
 C/O KENNARD WARFIELD JR
 14451 TRIADAPHA ROAD
 PO BOX 30
 GLENELG, MARYLAND 21737
 410-442-2337

BUILDER
 N.V.HOMES
 9720 PATUXENT WOODS DRIVE
 COLUMBIA, MD 21046
 BRENT HANAUER
 410-379-3391

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Land Development 3/16/18
 DATE
 Chief, Development Engineering Division 3-13-18
 DATE
 Director - Department of Planning and Zoning 3-15-18
 DATE

PLAT NO.	BLOCK NO.	ZONE	TAX/ZONE	ELEC. DIST.	CENSUS TR.
24419-24421	6	R-SA-B	16	3	6069.02

SEDIMENT AND EROSION CONTROL PLAN AND SOILS MAP
WAVERLY GROVE
 LOTS 1 THRU 30

PREVIOUS HOWARD COUNTY FILE NUMBERS:
 SDP-86-00, S-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-1001,
 WP-16-069, WP-18-023, AND F-16-101
 ZONED: R-SA-B
 TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: 1" = 30' DATE: FEBRUARY, 2018
 SHEET 5 OF 7

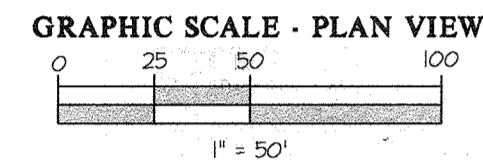
LEGEND

SYMBOL	DESCRIPTION
--- 418' ---	EXISTING CONTOUR 2' INTERVAL
--- 420' ---	EXISTING CONTOUR 10' INTERVAL
---	EXISTING STORM DRAIN LINE
---	EXISTING SEWER LINE
---	EXISTING WATER LINE
---	WETLAND AREA
---	25' WETLAND BUFFER
---	75' STREAM BUFFER
---	PROPOSED CONTOUR 2' INTERVAL
---	PROPOSED CONTOUR 10' INTERVAL
---	SPOT ELEVATION
---	PROPOSED SEWER HOUSE CONNECTION
---	PROPOSED WATER HOUSE CONNECTION
---	LIMIT OF DISTURBANCE
---	SUPER SALT FENCE
---	EXISTING STREET LIGHT
---	FOREST CONSERVATION EASEMENT
---	PROPOSED DRY WELL
---	EXISTING TREE
---	PUBLIC WATER & SEWER UTILITY EASEMENT
---	STORMWATER MANAGEMENT EASEMENT
---	RECREATIONAL OPEN SPACE
---	PRIVATE PATH, RETAINING WALL AND MAINTENANCE EASEMENT

FROM NO.	TO NO.	DIA. (IN) & TYPE OF PIPE	L (FT)
I-36	I-35	15" HDPE	32'
I-35	I-34	15" HDPE	74'
I-34	I-33	15" HDPE	28'
I-33	I-32	15" HDPE	88'
I-32	I-31	18" HDPE	55'
I-31	M-22	24" HDPE	78'
M-22	M-20	24" RCP CL.V	102'
I-31	M-22	15" HDPE	23'
M-23	M-23	30" HDPE	12'
M-23	M-23	30" HDPE	21'
I-24	M-23	15" HDPE	36'
STUB-Q	M-20	15" HDPE	12'
M-20	I-24	15" HDPE	46'
I-24	M-21	18" HDPE	44'
M-21	M-20	18" HDPE	80'
M-20	STUB-P	36" RCP CL.V	15'
I-30	M-20	15" HDPE	24'
STUB-R	M-14	24" HDPE	11'
I-4	STUB-I	24" HDPE	94'
I-12	M-14	15" HDPE	24'
M-14	STUB-J	18" HDPE	78'
I-22	M-14	15" HDPE	33'
I-23	M-14	15" HDPE	15'

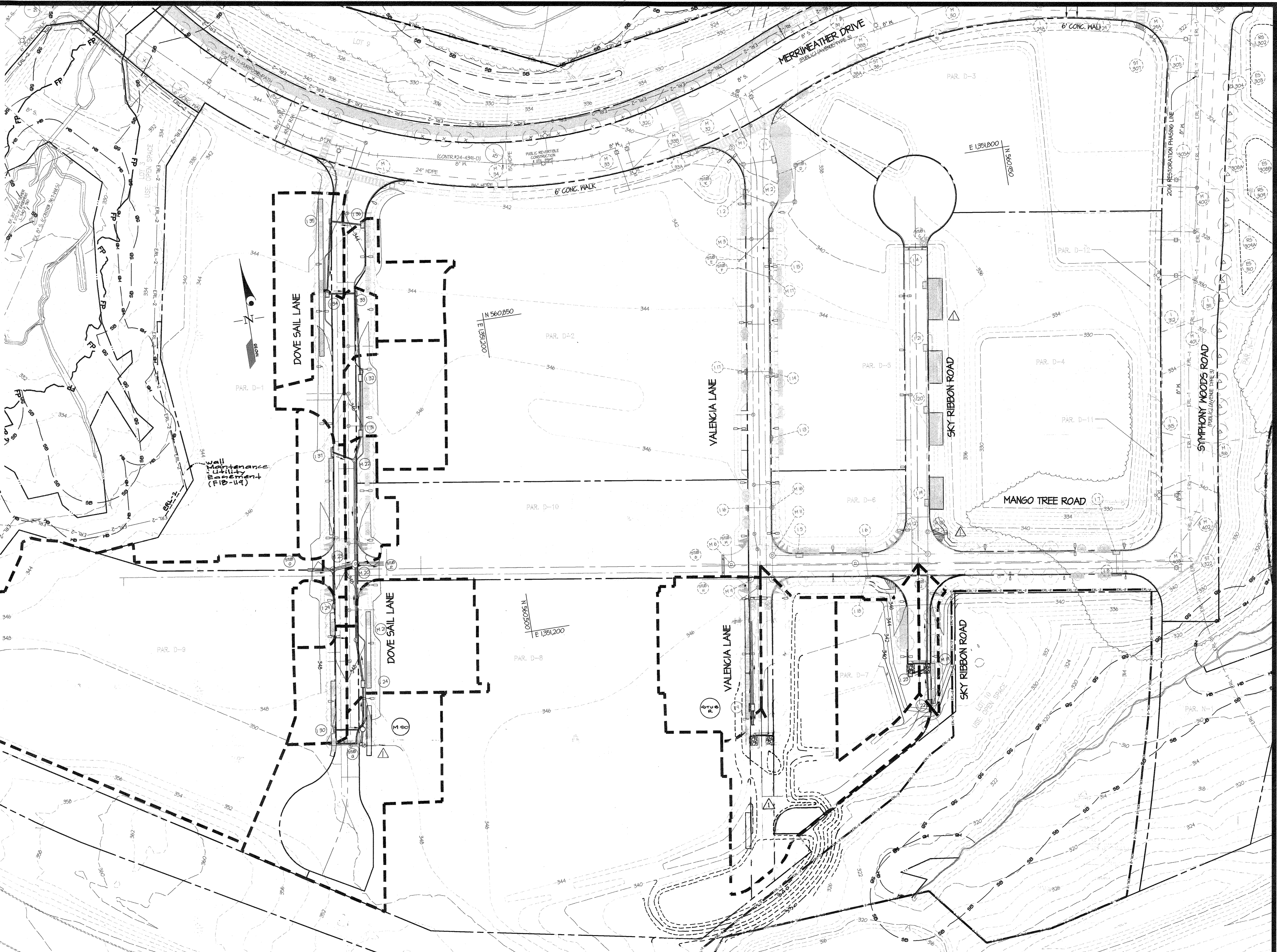
C FACTOR COMPUTATIONS			
STRUCTURE	AREA (AC.)	C'	IMPERVIOUS
I-35	0.24	0.84	90 %
I-36	0.23	0.84	91 %
I-34	0.15	0.84	90 %
I-33	0.06	0.86	100 %
I-32	0.33	0.85	91 %
I-31	0.14	0.83	95 %
I-31	0.20	0.84	90 %
I-24	0.04	0.83	96 %
I-24	0.42	0.84	90 %
I-23	0.15	0.84	90 %
I-30	0.15	0.84	90 %
STUB-Q	0.09	0.85	94 %
STUB-Q	2.00	0.83	96 %
STUB-R	2.00	0.86	100 %
I-4	0.44	0.84	90 %
I-12	0.09	0.84	90 %
I-23	0.35	0.84	90 %
I-22	0.07	0.84	91 %

NOTE: DRAINAGE DIVIDES SHOWN AND DRAINAGE AREA INFORMATION PROVIDED REFLECT FUTURE DEVELOPMENT CONDITIONS AS SHOWN ON SDP 17-021 AND SDP 18-005.



LEGEND

- DRAINAGE DIVIDE FOR PROPOSED STRUCTURES
- EXISTING STORM DRAIN STRUCTURE
- PROPOSED STORM DRAIN STRUCTURE



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] 6/11/18
 Chief, Bureau of Highways Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
[Signature] 7-02-18
 Chief, Division of Land Development Date

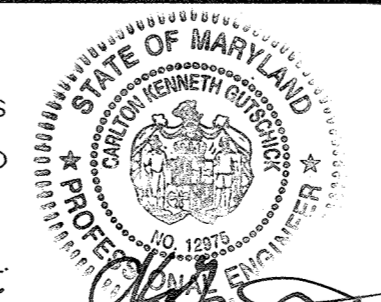
[Signature] 5-29-18
 Chief, Development Engineering Division Date

GLWGUTSCHICK LITTLE & WEBER, P.A.
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
 BURTONSVILLE, MARYLAND 20866
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

DATE	REVISION	BY	APP'R
7-29-18	Revised Curb, Edge, Inlet to M.D. Drainage Area, and Storm Ramps	Woj	DE

PREPARED FOR:
 THE HOWARD HUGHES CORPORATION
 10480 LITTLE PATUXENT PARKWAY
 SUITE 400
 COLUMBIA, MARYLAND 21044
 ATTN: BILL ROWE
 410-964-4987

PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE PLANS 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. 12975
 EXPIRATION DATE: MAY 26, 2018
 5/31/18



STORM DRAIN - DRAINAGE AREA MAP

**DOWNTOWN COLUMBIA
 CRESCENT NEIGHBORHOOD
 DOVE SAIL LANE, SKY RIBBON ROAD and VALENCIA LANE**

HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT No. 5

SCALE	ZONING	G. L. W. FILE No.
1" = 50'	NT	11071
DATE	TAX MAP - GRID	SHEET
MAY, 2018	36 - 01	7 OF 24

L:\CAD\DRAWINGS\11071\11071-AREA_S\PLANS BY GUYE 18-017\11071-AREA_38-F-07 - SD DAM.dwg
 DATE: 5/27/2018 3:22 PM, LAST SAVED: 5/27/2018 2:45 PM, PLOTTED BY: User
 © GLW 2018

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

- A. SOIL PREPARATION
1. TEMPORARY STABILIZATION
2. PERMANENT STABILIZATION
3. TOPSOILING
4. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS)

TEMPORARY SEEDING NOTES (B-4-4)

DEFINITION
TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.
DEFINITION
TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

Table with 4 columns: SPECIES, APPLICATION RATE (LB./AC.), SEEDING DATES, SEEDING DEPTH. Lists species like BARLEY, OATS, RYE with application rates and seeding instructions.

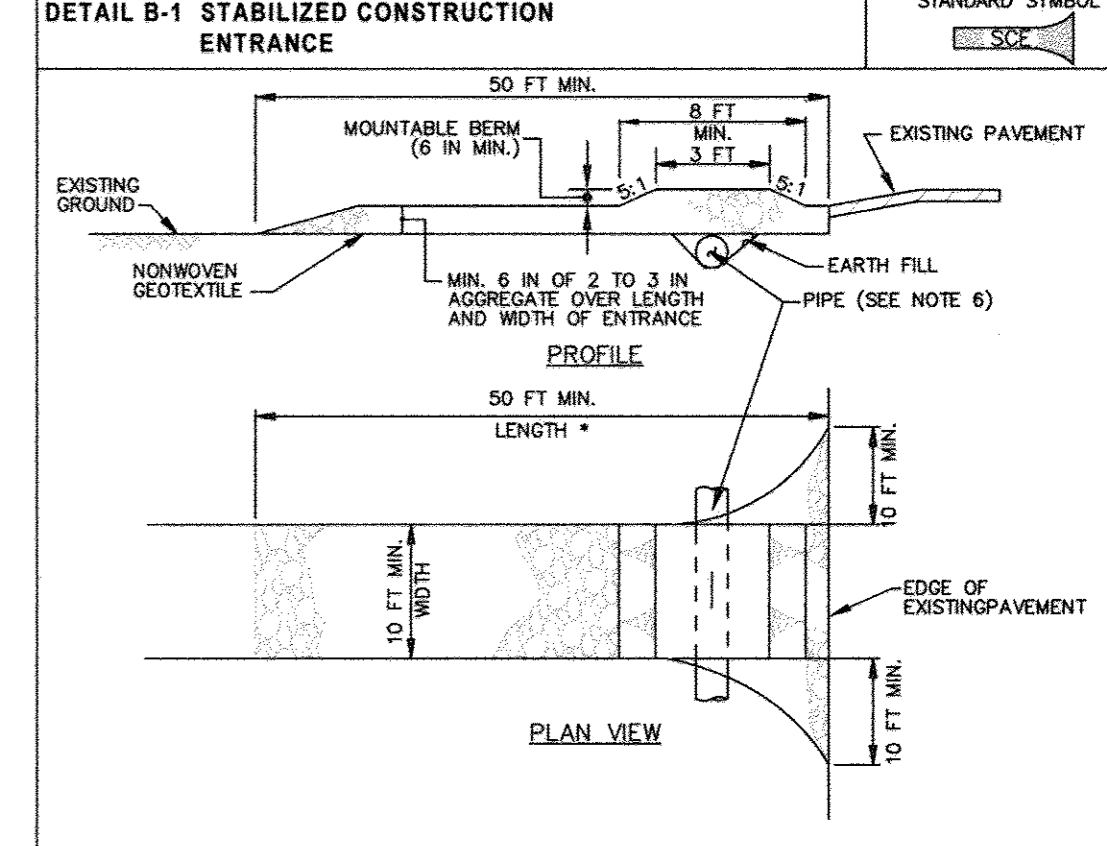
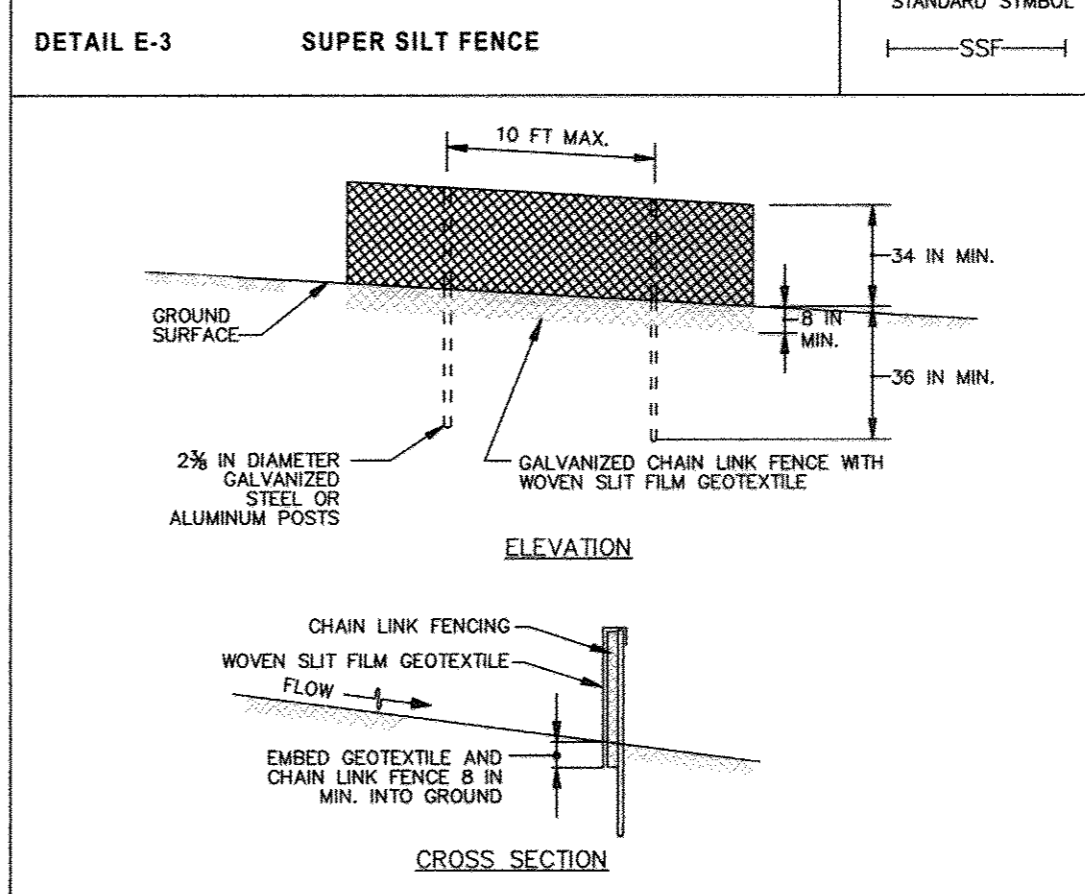
PERMANENT SEEDING NOTES (B-4-5)

A. SEED MIXTURES

- 1. GENERAL USE
2. TURFGRASSES MIXTURES
3. TURFGRASSES MIXTURES
4. TURFGRASSES MIXTURES

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

- 1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS...
2. PRIOR TO THE START OF EARLY DISTURBANCE...
3. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS...
4. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT...
5. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...
6. SITE ANALYSIS



CONSTRUCTION SPECIFICATIONS

- 1. INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.085 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART...
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE...
3. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HILD RINGS...
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEPARATION BY PASS.

CONSTRUCTION SPECIFICATIONS

- 1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (+30 FEET FOR SINGLE RESIDENCE LOTS)...
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE...
3. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HILD RINGS...
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEPARATION BY PASS.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE 2011

STANDARD STABILIZATION NOTE

- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:
A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DITCHES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL...
B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

DUST CONTROL

- DEFINITION
CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.
PURPOSE
TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS AND IMPROVE TRAFFIC SAFETY.
CONDITIONS WHERE PRACTICE APPLIES
THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

SPECIFICATIONS

- TEMPORARY METHODS
1. MULCHES - SEE STANDARDS FOR VEGETATIVE STABILIZATION WITH MULCHES ONLY. MULCH SHOULD BE COMPACTED OR TACKED TO PREVENT BLOWING.
2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER.
3. TIEBACK - TO STRENGTHEN SURFACE AND BOND CLAYS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLACING ON WINDWARD SIDE OF THE SITE. CHESEL-TYPE PLUMS SPACED ABOUT 12' APART. SPRING-TOOTHED HARROWS AND SIMILAR PLUMS ARE EXAMPLES OF EQUIPMENT WHICH MAY PROVIDE THE DESIRED EFFECT.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR (14 DAYS)
2. NOTIFY "HES UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-297-7777. (7 DAYS)
3. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION AT 410-313-1330 AT LEAST 74 HOURS BEFORE STARTING WORK. (2 DAYS)
4. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE AND SUPER-SILT FENCE. (2 DAYS)
5. ROUGH GRADE AROUND HOUSE SITE AND INSTALL TEMPORARY SEEDING IF REQUIRED. (2 MONTHS)
6. COMPLETE TOWNING CONSTRUCTION. (2 MONTHS)
7. INSTALL DRYWELLS. (1 WEEK)
8. FINISH GRADE SITE AND INSTALL PERMANENT SEEDING. (3 DAYS)
9. ALL FINAL GRADING AND STABILIZATION SHOULD BE COMPLETED BEFORE ANY REMOVAL OF CONTROLS. WHEN ALL CONTRIBUTING AREAS TO THE SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED AND WITH THE PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, THE SEDIMENT CONTROL DEVICES MAY BE REMOVED. (3 DAYS)
NOTE: THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE EACH RAINFALL AND ON A DAILY BASIS.

PROFESSIONAL CERTIFICATION

Professional certification section for Frank J. Hanalansan II, dated 2/21/18. Includes the seal of the State of Maryland and the Professional Engineer's seal for Fisher, Collins & Carter, Inc.

DEFINITION

Table with 3 columns: NO., REVISION, DATE. Contains a list of revisions for the plan.

SURVEYOR'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Frank J. Hanalansan II, dated 2/21/18.

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES 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 OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Signature of Bradley, dated 2/21/18.

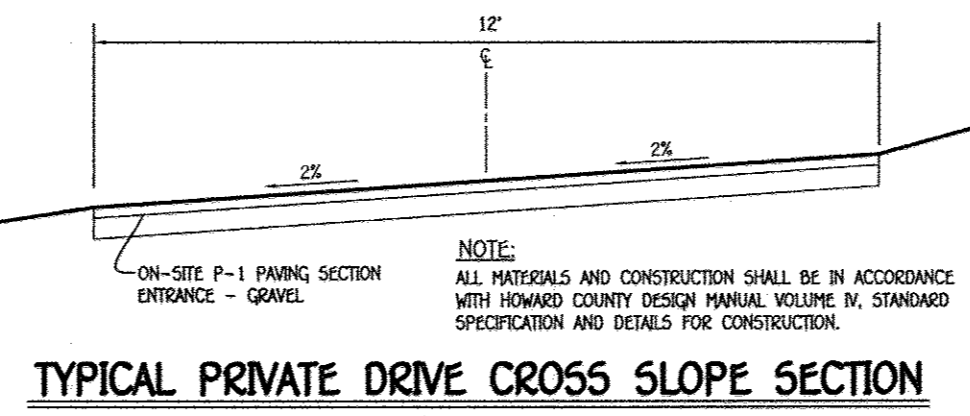


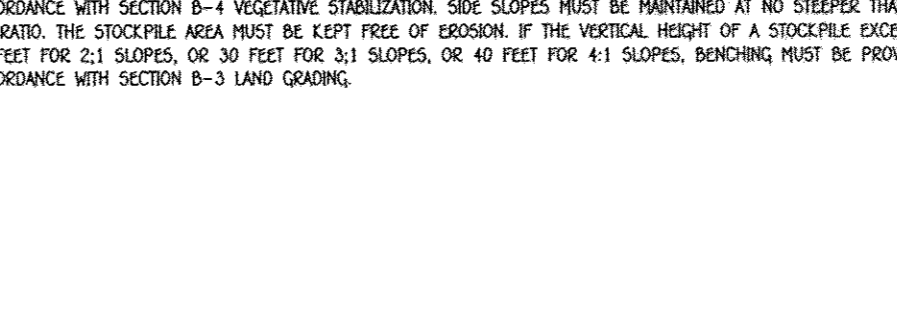
TABLE B.1 TEMPORARY SEEDING FOR SITE STABILIZATION

Table with columns: PLANT SPECIES, SEEDING RATE (LB./AC. and LB./1000 FT.2), SEEDING DEPTH (INCHES), and RECOMMENDED SEEDING DATES BY PLANT HARDINESS ZONE (5b AND 6a, 6b, 7a AND 7b).

- NOTES:
1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING WEIGHTS SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED.
2. SEEDING DATES LISTED ARE AVERAGES FOR EACH ZONE AND MAY REQUIRE ADJUSTMENT TO REFLECT LOCAL CONDITIONS, ESPECIALLY NEAR THE BOUNDARIES OF THE ZONE.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS

- DEFINITION
A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES.
PURPOSE
TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION AND CHANGES TO DRAINAGE PATTERNS.
CONDITIONS WHERE PRACTICE APPLIES
STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.
CRITERIA
1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SAFE SLOPE RATIO NO STEEPER THAN 2:1 BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.
3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A STABLE SEDIMENT CONTROL PRACTICE.
4. ACCESS TO THE STOCKPILE AREA FROM THE UPRIDE SIDE.
5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE PREVENTED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH LEVEE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE MANNER.
6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERRUPT THE DISCHARGE.
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD B-4-1 INCORPORATING STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.
8. IF THE STOCKPILE IS LOCATED ON AN IMPROVISED SURFACE, A LEAKS BARRIER IS PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

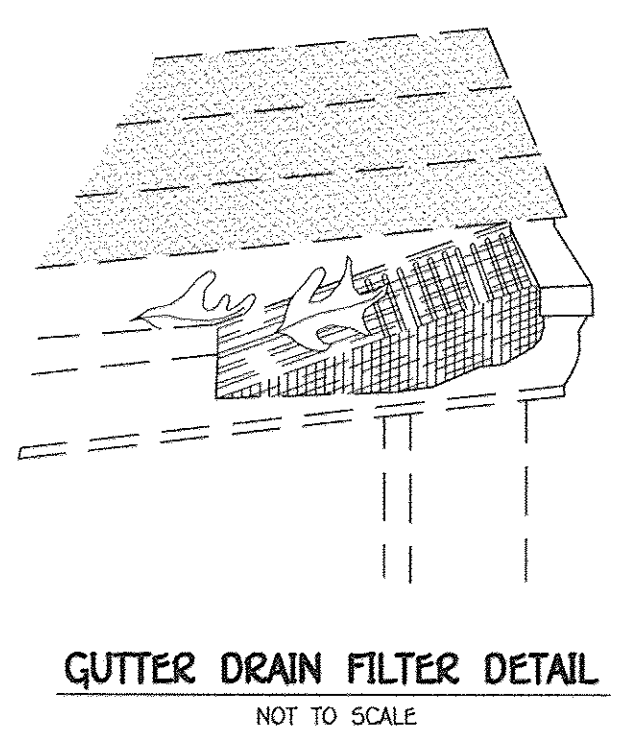
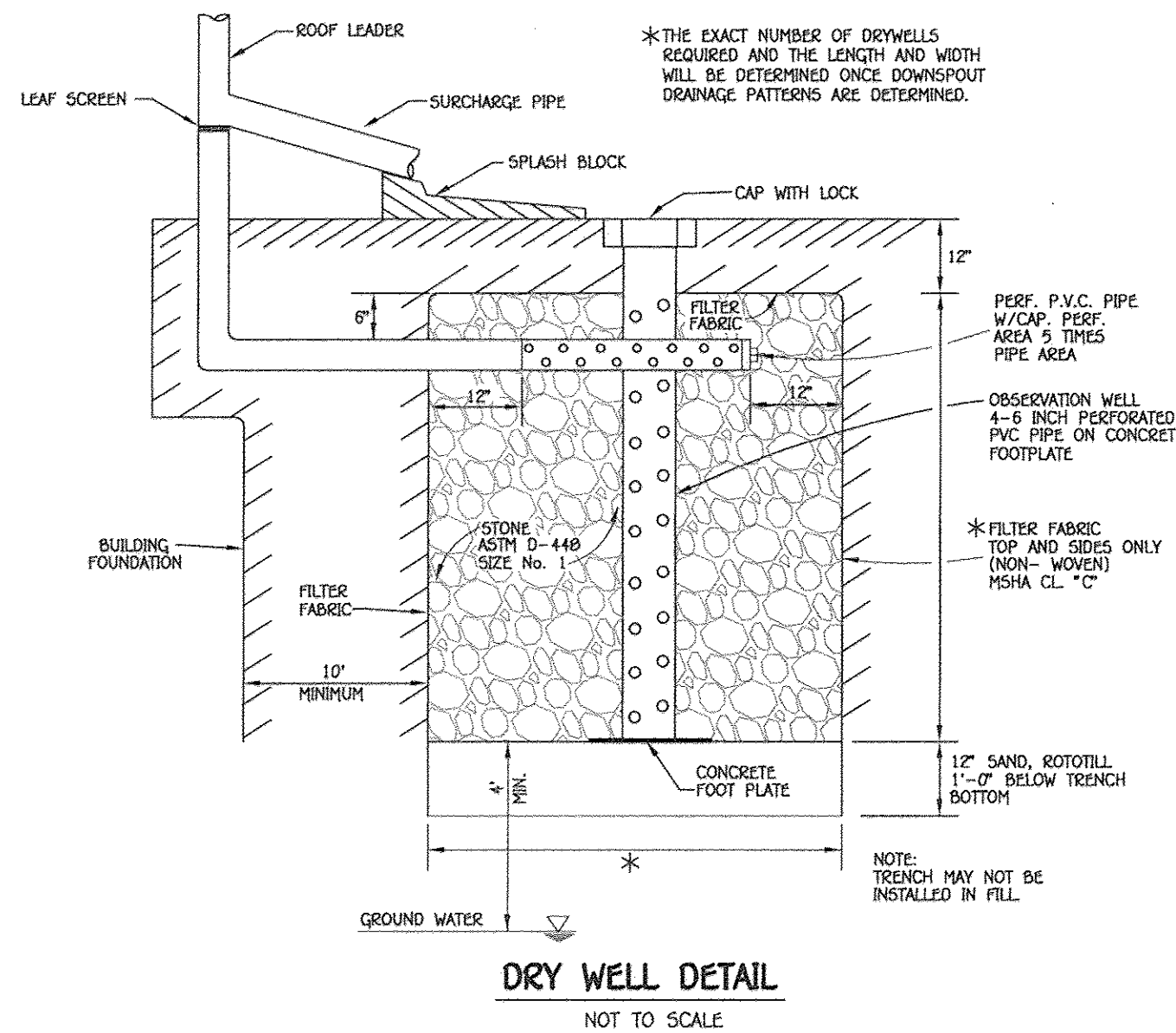


APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Approval signatures and dates for Chief of Division of Land Development (3/16/18) and Chief of Development Engineering Division (3-13-18). Includes the Director's signature and date (3-19-18).

SEDIMENT & EROSION CONTROL NOTES AND DETAILS

Waverly Grove Lots 1 thru 30. Previous Howard County file numbers: SOP-06-00, 5-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001, WP-16-069, WP-16-023, AND F-16-101. Tax map NO: 16 GRID NO: 6 PARCEL NO.: 25 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND. Scale: AS SHOWN DATE: FEBRUARY, 2018 SHEET 6 OF 7.

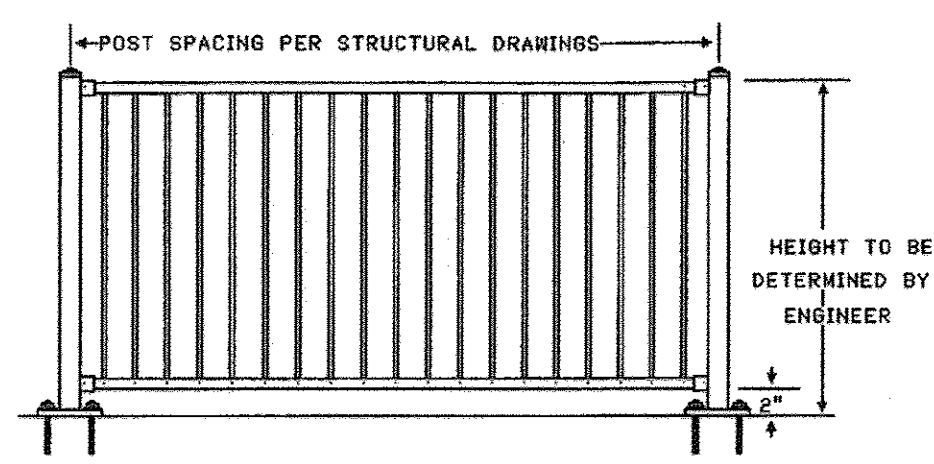


DRY WELL CHART

LOT NO.	NO. OF DOWNSPOUTS	AREA OF ROOF	VOLUME REQUIRED	VOLUME PROVIDED	AREA OF STORAGE	AREA OF TREATMENT	NO. OF DRYWELLS	DIMENSIONS OF DRYWELLS
10512 MY GRL PLACE LOT 1	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10514 MY GRL PLACE LOT 2	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10516 MY GRL PLACE LOT 3	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10518 MY GRL PLACE LOT 4	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10520 MY GRL PLACE LOT 5	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10524 MY GRL PLACE LOT 6	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10526 MY GRL PLACE LOT 7	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10528 MY GRL PLACE LOT 8	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10530 MY GRL PLACE LOT 9	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10532 MY GRL PLACE LOT 10	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10536 MY GRL PLACE LOT 11	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10538 MY GRL PLACE LOT 12	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10540 MY GRL PLACE LOT 13	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10542 MY GRL PLACE LOT 14	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'
10544 MY GRL PLACE LOT 15	2	550 Sq Ft	79 Cu Ft	83 Cu Ft	100%	100%	1	7.5' X 5.5' X 5'

NOTES:
 1) A MODIFICATION TO THE STORAGE REQUIREMENT (DRYWELL SIZE) MAY BE DETERMINE WHEN THE ACTUAL HOUSE TYPE IS SITED ON THE INDIVIDUAL LOT.

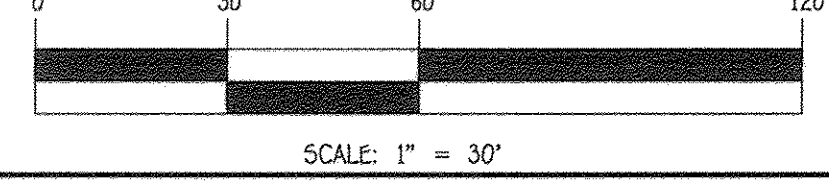
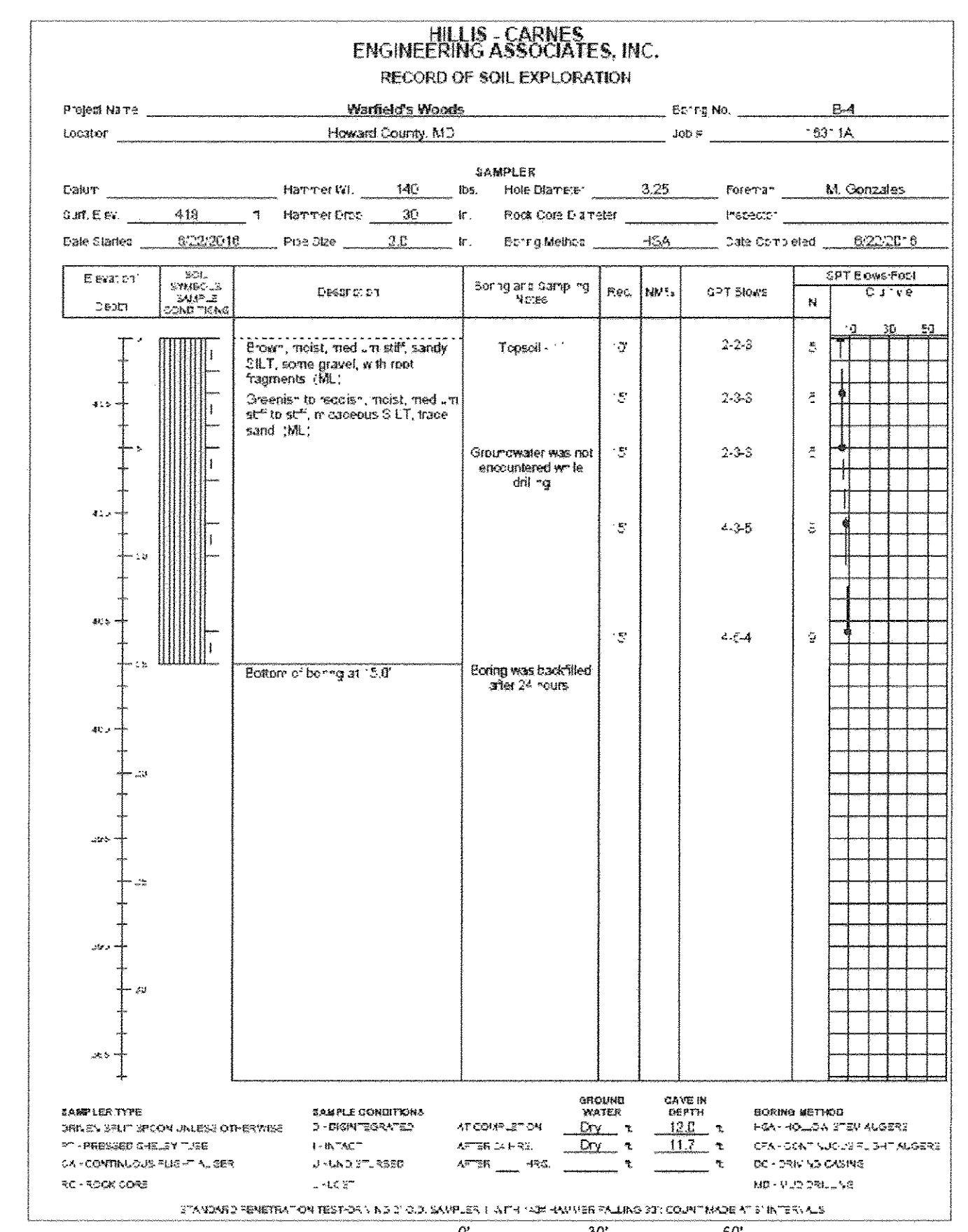
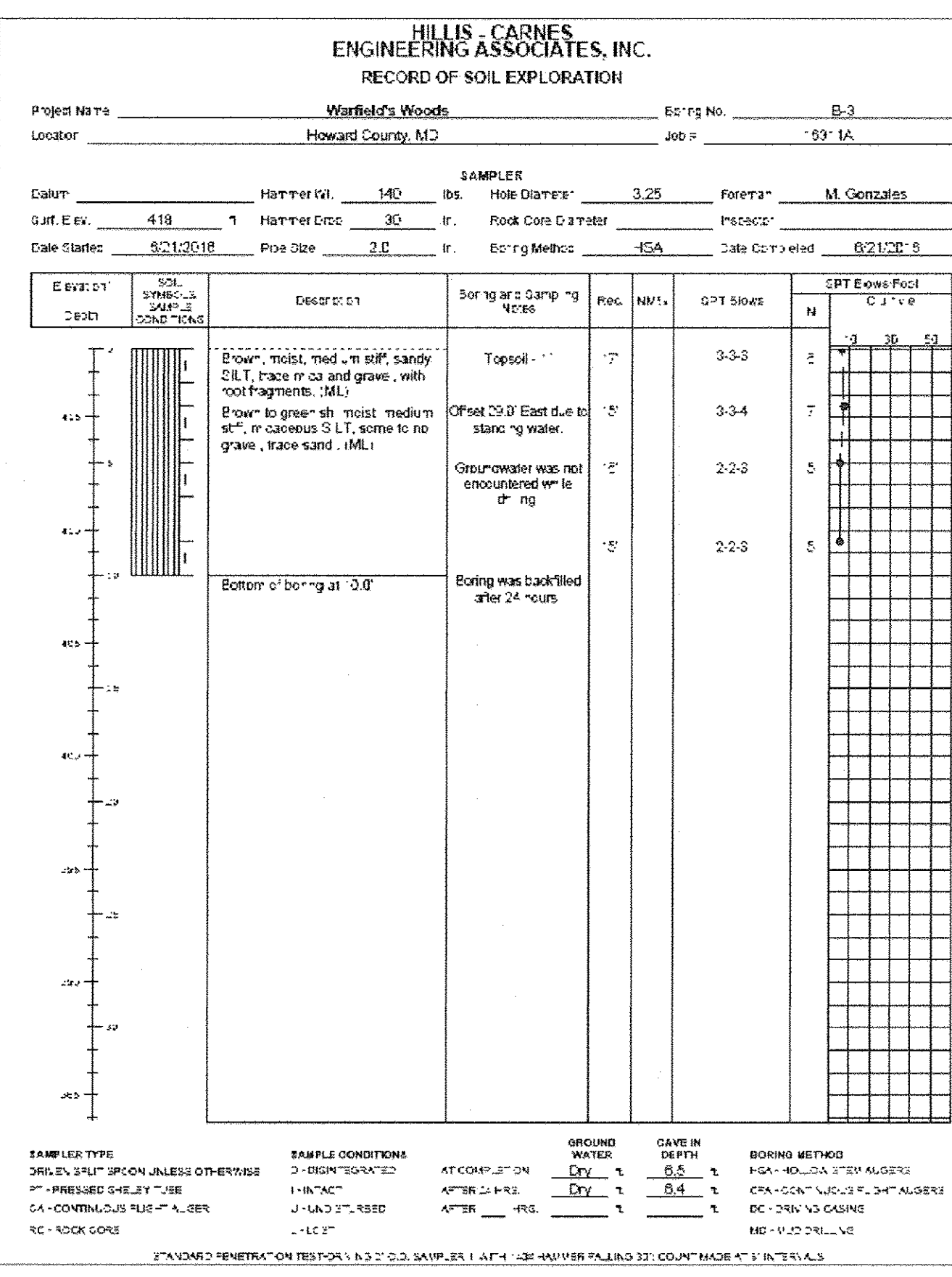
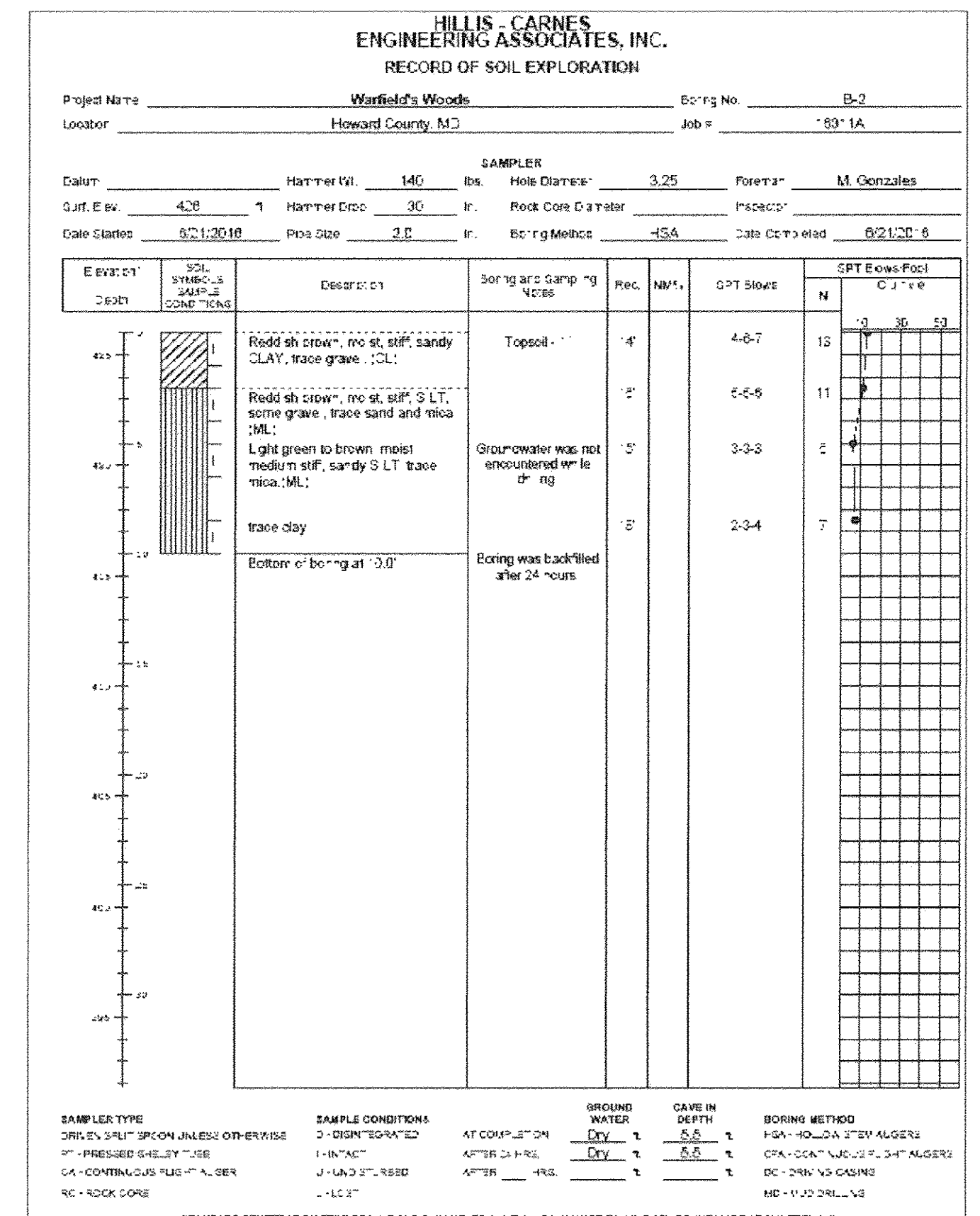
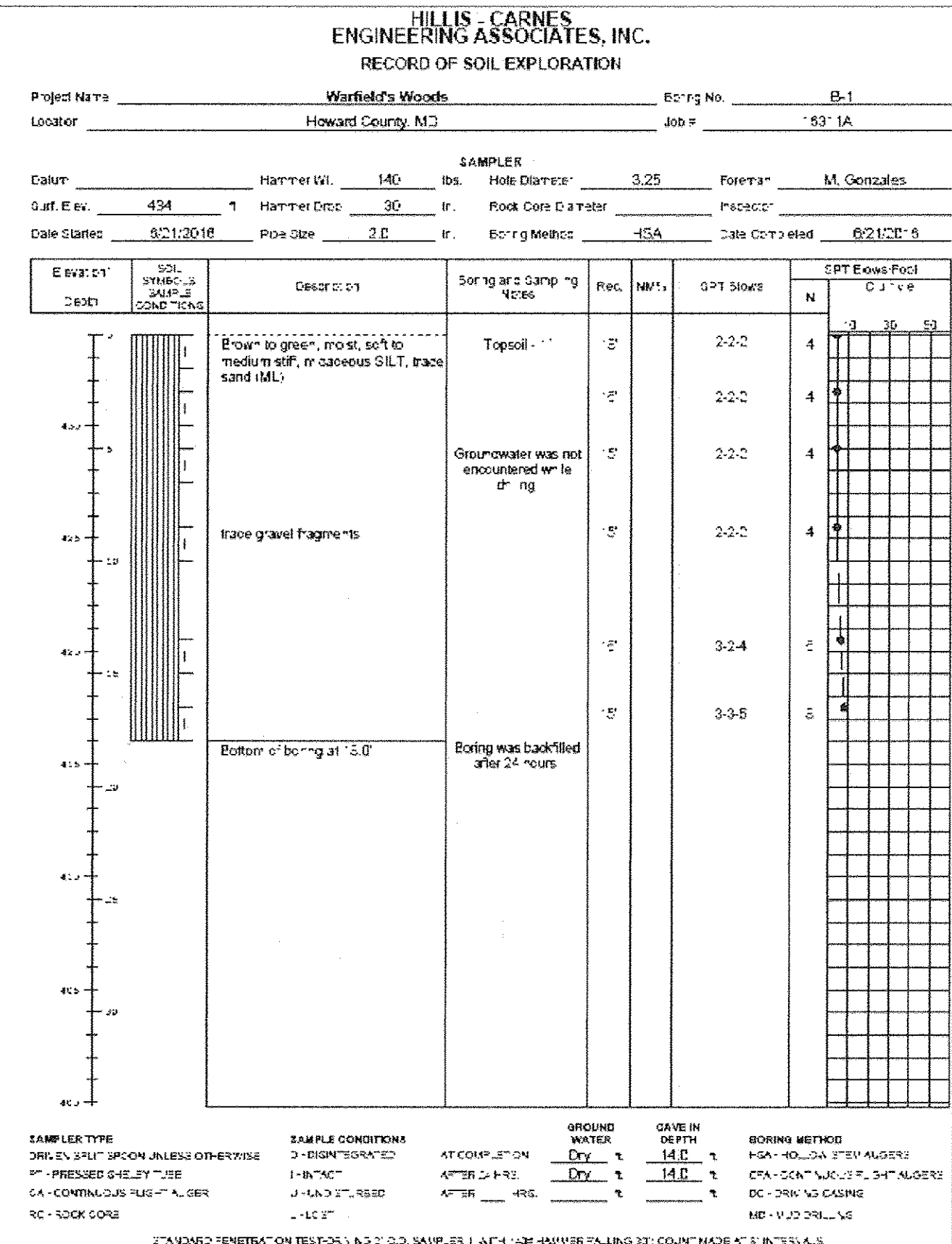
BLACK ALUMINUM POWDER COATED ORNAMENTAL FENCE ON CONCRETE WALL (PROVIDED UNDER F-16-101)



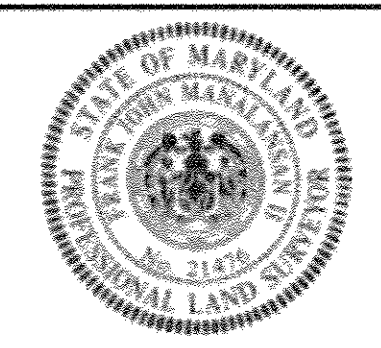
OPERATION AND MAINTENANCE SCHEDULE FOR DRYWELLS (M-5)

- The owner shall inspect the monitoring wells and structures on a quarterly basis and after every heavy storm event.
- The owner shall record the water levels and sediment build up in the monitoring wells over a period of several days to insure trench drainage.
- The owner shall maintain a log book to determine the rate at which the facility drains.
- When the facility becomes clogged so that it does not drain down within a seventy two (72) hour time period, corrective action shall be taken.
- The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.
- Once the performance characteristics of the infiltration facility have been verified, the monitoring schedule can be reduced to an annual basis unless the performance data indicates that a more frequent schedule is required.

- STORMWATER MANAGEMENT NOTES**
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 9, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
 - MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
 - DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% THE SIZE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
 - FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21476, EXPIRATION DATE: 7/14/19.
 Frank J. Anderson, 2/24/18
 FRANK J. ANDERSON II



NO.	REVISION	DATE

OWNER/DEVELOPER
 WARFIELD WOODS LLC
 C/O KENNED WAREFIELD JR
 14451 TRADELPHIA ROAD
 PO BOX 30
 GLENGLG, MARYLAND 21737
 410-442-2337

BUILDER
 N.V. HOMES
 9720 PATRIOT WOODS DRIVE
 COLUMBIA, MD 21046
 BRENT HANAUER
 410-379-3391

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Division of Land Development: 3/16/18
 Chief, Development Engineering Division: 7-17-18
 Director, Department of Planning and Zoning: 3-19-18

SUBDIVISION	SECTION/AREA	LOT NOS.
WAVELY GROVE	---	1 THRU 30
PLAT NO. 24419-24421	BLOCK NO. 6	ZONE R-SA-B
TAX/ZONE 16	ELEC. DIST. 3	CENSUS TR. 6069.02

STORMWATER MANAGEMENT NOTES AND DETAILS

WAVELY GROVE LOTS 1 THRU 30

PREVIOUS HOWARD COUNTY FILE NUMBERS:
 S0P-06-06, 5-94-07, P-95-07, F-95-174, ECP-14-072, SP-16-001, WP-16-069, WP-18-023, AND F-16-101
 ZONED: R-SA-B
 TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25
 THIRD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND
 SCALE: AS SHOWN DATE: FEBRUARY, 2018
 SHEET 7 OF 7