#### SHEET INDEX DESCRIPTION SHEET NO. GEOMETRY PLAN 5ITE DEVELOPMENT PLAN SEDIMENT AND EROSION CONTROL PLAN SEDIMENT AND EROSION CONTROL NOTES AND DETAILS 7 STORMWATER MANAGEMENT NOTES AND DETAILS

#### SITE ANALYSIS DATA CHART

A. TOTAL AREA OF THIS SUBMISSION = 1.73 Ac. ±.

TOTAL CREDITED AREA = 5.567 ACRES

- 3. LIMIT OF DISTURBED AREA = 1.73 Ac. ± C. PRESENT ZONING DESIGNATION =  $R-5A-\theta$  PER 10/6/13 COMPREHENSIVE
- D. PROPOSED USE: RESIDENTIAL (SINGLE FAMILY ATTACHED HOUSING) TOTAL NUMBER OF UNITS PROPOSED: 30 UNITS . OPEN SPACE: 6.268 ACRES (PREVIOUSLY PROVIDED BY F-16-101).
- 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 5Q. FT./L.F.) = 3,476 5Q. FT. X 2 = 6,952 SQ. FT. (SEE NOTE (1)
  - AMENITY CREDITS BASED ON SQUARE FOOTAGE: 2 SQ. FT. OF RECREATIONAL AREA PER 1 SQ. FT. OF
  - 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: 5DP-86-88, 5-94-07, P-95-07, F-95-174, ECP-14-072, 5P-16-001, WP-16-069, WP-18-023 AND
- TOTAL AREA OF FLOODPLAIN LOCATED ON SITE 0.00 Ac+
- TOTAL AREA OF SLOPES IN EXCESS OF 25% = 0.00 Ac+ TOTAL IMPERVIOUS AREA = 1.04 Ac+ NET TRACT AREA = 1.734 Ac.
- (TOTAL SITE AREA FLOODPLAIN STEEP SLOPES IN EXCESS OF 25%)  $(1.734 \text{ Ac.} - 0.00 \text{ Ac.} - 0.00 \text{ Ac.} = 1.734 \text{ Ac} \pm 0.00 \text{ Ac.} = 0.$ M. TOTAL AREA OF WETLANDS (INCLUDING BUFFER) = 0.00 Ac. ±
- BUILDING COVERAGE OF SITE: 49%
- TOTAL GREEN OPEN AREA = 0.49 Ac. ± AREA OF ERODIBLE 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)
- 5. 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

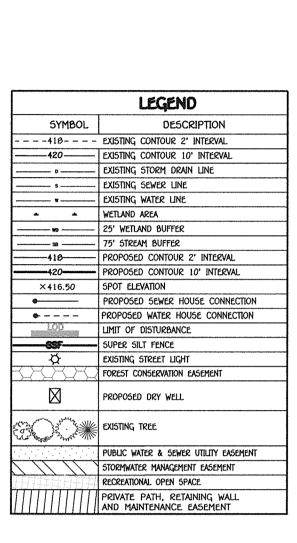
	ADDRESS CHART								
LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS						
1	10512 MY GIRL PLACE	16	10543 MY GIRL PLACE						
2	10514 MY GIRL PLACE	17	10541 MY GIRL PLACE						
3	10516 MY GIRL PLACE	18	10539 MY GIRL PLACE						
4	10518 MY GIRL PLACE	19	10537 MY GIRL PLACE						
5	10520 MY GIRL PLACE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

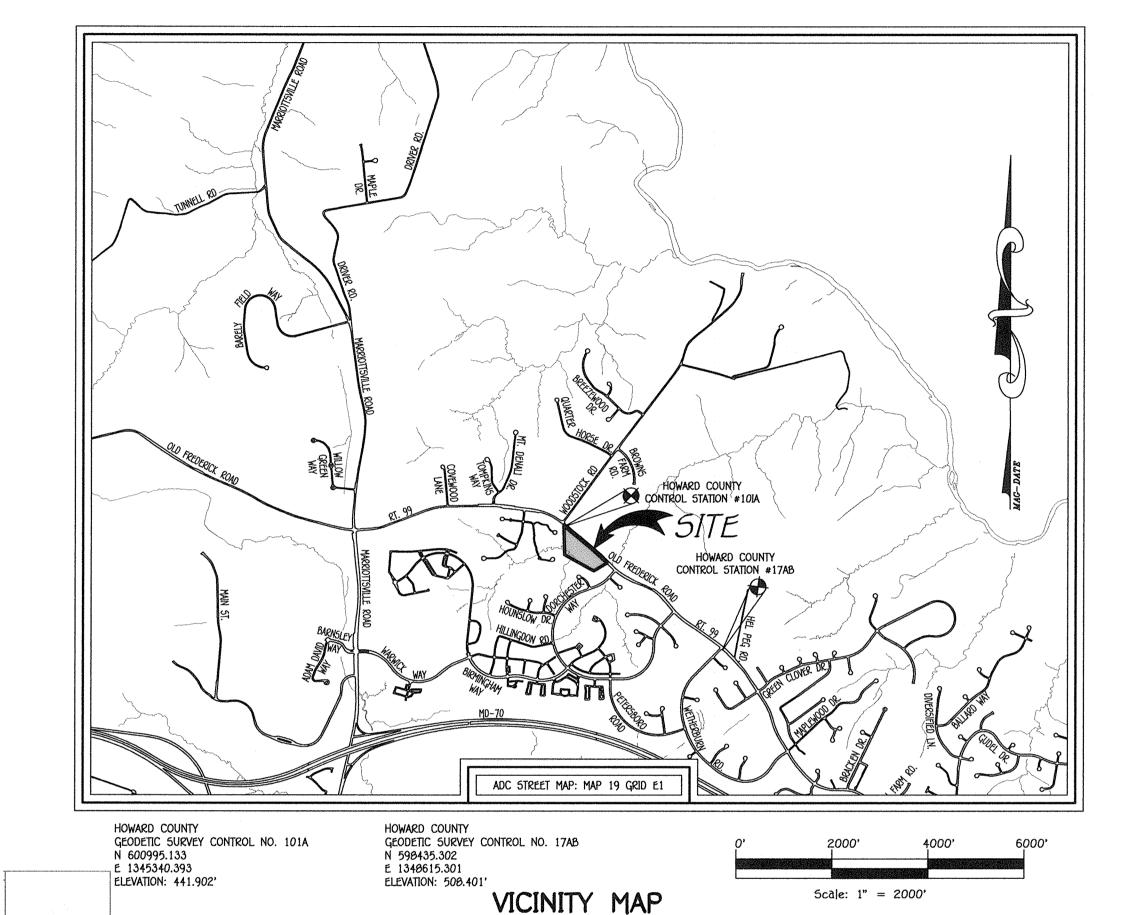
15 10544 MY GIRL PLACE 30 10511 MY GIRL PLACE

# SITE DEVELOPMENT PLAN WAVERLY GROVE

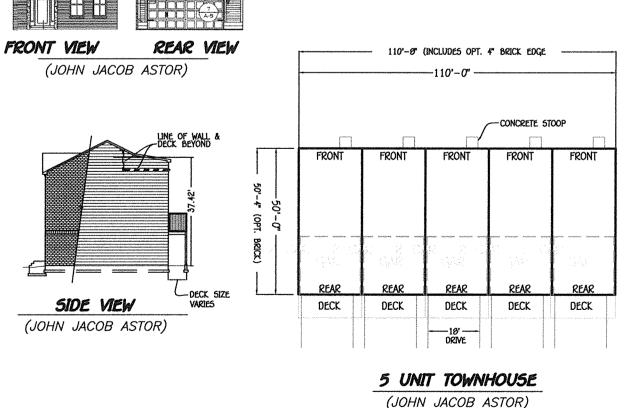
LOTS 1 THRU 30

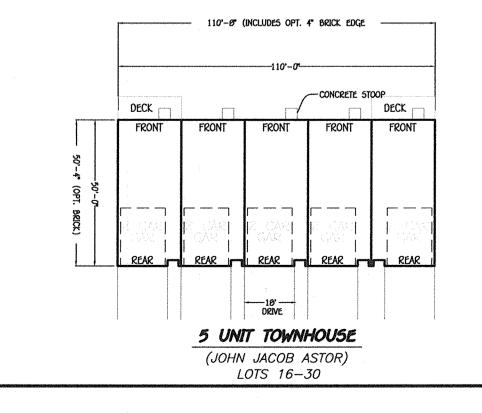
ZONING: R-SA-8 (RESIDENTIAL: SINGLE CLUSTER) DISTRICT TAX MAP No. 16 GRID No. 6 PARCEL No. 25

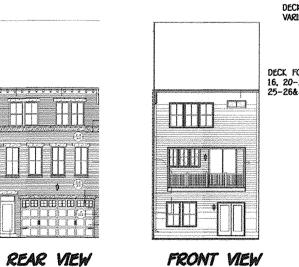




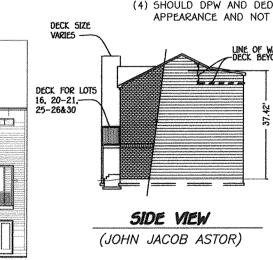
	15 10577 1(1		100   10311 1(1)		
	STORMWATER N	1ANAGEME	ENT PRACTICES		
STREET ADDRESS	AREA ID	DRY WELLS M-5 (Y/N)	MICRO BIO-RETENTION M-6 (Y/N)	BIO-RETENTION F-6 (Y/N)	FILTERRA INLET FIL (Y/N)
10512 MY GIRL PLACE	LOT 1	Υ		Y (PROVIDED BY F-16-101)	Y (PROVIDED BY F-16-101)
10514 MY GIRL PLACE	LOT 2	Υ		Y (PROVIDED BY F-16-101)	Y (PROVIDED BY F-16-101)
10516 MY GIRL PLACE	LOT 3	Υ			Y (PROVIDED BY F-16-101)
10518 MY GIRL PLACE	LOT 4	Y			Y (PROVIDED BY F-16-101)
10520 MY GIRL PLACE	LOT 5	Y			Y (PROVIDED BY F-16-101)
10524 MY GIRL PLACE	LOT 6	Y			Y (PROVIDED BY F-16-101)
10526 MY GIRL PLACE	LOT 7	Υ			Y (PROVIDED BY F-16-101)
10528 MY GIRL PLACE	LOT Ø	Υ			Y (PROVIDED BY F-16-101)
10530 MY GIRL PLACE	LOT 9	Υ			Y (PROVIDED BY F-16-101)
10532 MY GIRL PLACE	LOT 10	Y			Y (PROVIDED BY F-16-101)
10536 MY GIRL PLACE	LOT 11	Y		Y (PROVIDED BY F-16-101)	
10538 MY GIRL PLACE	LOT 12	Y		Y (PROVIDED BY F-16-101)	
10540 MY GIRL PLACE	LOT 13	Y		Y (PROVIDED BY F-16-101)	
10542 MY GIRL PLACE	LOT 14	Υ		Y (PROVIDED BY F-16-101)	
10544 MY GIRL PLACE	LOT 15	Υ		Y (PROVIDED BY F-16-101)	
10543 MY GIRL PLACE	LOT 16			Y (PROVIDED BY F-16-101)	
10541 MY GIRL PLACE	LOT 17			Y (PROVIDED BY F-16-101)	
10539 MY GIRL PLACE	LOT 18			Y (PROVIDED BY F-16-101)	
10537 MY GIRL PLACE	LOT 19			Y (PROVIDED BY F-16-101)	
10535 MY GIRL PLACE	LOT 20			Y (PROVIDED BY F-16-101)	
10531 MY GIRL PLACE	LOT 21			Y (PROVIDED BY F-16-101)	
10529 MY GIRL PLACE	LOT 22			Y (PROVIDED BY F-16-101)	
10527 MY GIRL PLACE	LOT 23			Y (PROVIDED BY F-16-101)	
10525 MY GIRL PLACE	LOT 24			Y (PROVIDED BY F-16-101)	I
10523 MY GIRL PLACE	LOT 25			Y (PROVIDED BY F-16-101)	
10519 MY GIRL PLACE	LOT 26			Y (PROVIDED BY F-16-101)	
10517 MY GIRL PLACE	LOT 27		Y (PROVIDED BY F-16-101)	Y (PROVIDED BY F-16-101)	Y (PROVIDED BY F-16-101)
10515 MY GIRL PLACE	LOT 28		Y (PROVIDED BY F-16-101)	Y (PROVIDED BY F-16-101)	Y (PROVIDED BY F-16-101)
10513 MY GIRL PLACE	LOT 29			Y (PROVIDED BY F-16-101)	
10511 MY GIRL PLACE	LOT 30	<u></u>	1 (PKUVIUEU BY F-16-101)	Y (PROVIDED BY F-16-101)	Y (PKUVIUED BY F-16-101)







(JOHN JACOB ASTOR)



- THE SUBJECT PROPERTY IS ZONED R-SA-Ø PER 10/6/13 COMPREHENSIVE ZONING PLAN. THE CONSTRUCTION SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINNER/CONSTRUCTION INSPECTION DIVISION AT (410)313-1000 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 40 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE. BOUNDARY INFORMATION IS BASED ON A SURVEY PERFORMED ON OR ABOUT MAY, 2014 BY FISHER, COLLINS & CARTER, INC. THE EXISTING TOPOGRAPHY IS TAKEN FROM A FIELD RUN SURVEY WITH 2' CONTOURS INTERVALS PREPARED BY FISHER, COLLINS & CARTER,
- INC. DATED MAY, 2014 AND SUPPLEMENTED WITH FINAL ROAD CONSTRUCTION, GRADING AND STORM WATER MANAGEMENT PLAN F-16-101. 6. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. MONUMENT NOS. 101A AND 17AB WERE USED FOR THIS PROJECT:
  - E 1.345340.393 FT ELEV. 441.902' HOWARD COUNTY GEODETIC CONTROL MONUMENT NO. 17AB N 598,435.302 FT E 1,348,615.301 FT

HOWARD COUNTY GEODETIC CONTROL MONUMENT NO. 101A N 600,995.133 FT

GENERAL NOTES

- ELEV. 508.401' 7. STORM WATER MANAGEMENT IS IN ACCORDANCE WITH THE M.D.E. STORM WATER DESIGN MANUAL, VOLUMES I & II, REVISED 2009. STORM WATER MANAGEMENT FOR THIS SITE DEVELOPMENT PLAN WILL BE PROVIDED BY DRY WELLS (M-5) TO BE OWNED AND MAINTAINED BY THE LOT OWNER WHERE THAT PARTICULAR DRY WELL IS LOCATED. ALL OTHER STORM WATER MANAGEMENT OBLIGATIONS HAVE BEEN MET THROUGH PREVIOUSLY APPROVED F-16-101.
- 8. EXISTING UTILITIES ARE BASED ON CONTR. NO. 24-4944-D. 9. ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- 10. SHC ELEVATIONS SHOWN ARE LOCATED AT THE PROPERTY LINE. 11. FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD DETAILS R-6.05. 12. THIS PLAN IS IN COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS PER COUNCIL BILL 45-2003 AND THE 10/06/13 COMPREHENSIVE ZONING PLAN. DEVELOPMENT OR CONSTRUCTION ON THESE LOTS MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION.
- 13. THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT AND IS SERVED BY PUBLIC WATER AND SEWER. 14. A NOISE STUDY DATED SEPTEMBER, 2015 HAS BEEN PERFORMED BY MARS GROUP INC. AND APPROVED ON 3/14/16 WITH SP-16-001. NOISE MITIGATION FOR THIS PROJECT WAS PREVIOUSLY PROVIDED ON F-16-101 BY A NOISE WALL ALONG MARYLAND ROUTE 99 (OLD
- 15. THE 65DBA NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN
- 16. THE TRAFFIC STUDY DATED JUNE, 2015 FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP AND APPROVED ON 3/14/16 WITH
- 17. FOREST STAND DELINEATION PREPARED BY ECO-SCIENCE PROFESSIONALS, INC MARCH, 2015 AND APPROVED ON 3/14/16 WITH 5P-16-001. 18. AN ENVIRONMENTAL STUDY DETAILING THE STREAMS, WETLANDS AND OTHER ENVIRONMENTAL FEATURES FOR THE OVERALL WAVERLY GROVE PROJECT WAS CONDUCTED BY ECO-SCIENCE PROFESSIONALS INC. DATED MARCH 2015 AND APPROVED ON 3/14/16.
- 19. THE FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION ACT FOR THIS PROJECT WERE MET UNDER F-16-101 BY PROVIDING ON-SITE AFFORESTATION OF 0.51 ACRES AND A FEE-IN-LIEU PAYMENT OF \$13,060.00 FOR THE REMAINING 0.40 ACRES.
- 20. NO CEMETERIES ARE LOCATED ON THIS PROPERTY NO HISTORIC STRUCTURES EXIST ON-SITE. 21. IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL, F-16-101 INCLUDES PLANTINGS AND CREDIT TO SATISFY REQUIRED PLANTINGS FOR PERIMETER, INTERNAL, AND PRIVATE STREET TREES (53 SHADE TREES AND 9 EVERGREENS).
- ALSO, THE 30 REQUIRED PUBLIC STREET TREES ARE INCLUDED WITH F-16-101. 22. THIS PLAN IS SUBJECT TO WP-16-069 WHICH THE PLANNING DIRECTOR ON DECEMBER 17, 2015 APPROVED AN ALTERNATIVE COMPLIANCE TO SECTION 16.120(c)(4) REQUIRING SINGLE-FAMILY ATTACHED (SFA) LOTS HAVE A MINIMUM OF 15' OF FRONTAGE ON A PUBLIC ROAD, SFA LOTS MAY BE APPROVED WITHOUT PUBLIC ROAD FRONTAGE PROVIDED THEY FRONT ON A COMMONLY OWNED AREA CONTAINING A PARKING AREA OR PRIVATE ROAD NOT EXCEEDING A LENGTH OF 200' MEASURED FROM THE EDGE OF THE PUBLIC RIGHT-OF-WAY ALONG THE
- CENTERLINE OF THE PRIVATE ROAD. APPROVAL IS SUBJECT TO: (1) THE INTERIOR PRIVATE STREET AND PARKING AREAS SHALL BE PRIVATELY OWNED AND MAINTAINED BY A HOMEOWNERS ASSOCIATION FOR THE WAVERLY GLEN (NOW WAVERLY GROVE) SUBDIVISION. (2) THE LENGTH OF EACH DRIVEWAY FOR ALL SINGLE FAMILY DETACHED DWELLING UNITS IN THE WAVERLY GLEN (NOW WAVERLY GROVE)
- TOWNHOUSE DEVELOPMENT SHALL BE A MINIMUM OF 18' FROM THE FRONT OF THE GARAGE TO SIDEWALK OR CURB LINE OF THE INTERIOR PRIVATE ROAD IF NO SIDEWALK IS PROVIDED. (3) THE PRIVATE ROADWAY SHALL BE CONSTRUCTED TO COUNTY DESIGN STANDARDS AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION FOR THIS DEVELOPMENT.
- (4) COMPLIANCE WITH SUBDIVISION REVIEW COMMITTEE AGENCY COMMENTS FOR SP-16-001/WAVERLY GLEN (NOW WAVERLY GROVE) 23. REFUSE COLLECTION. SNOW REMOVAL AND ROAD MAINTENANCE FOR PRIVATE ROADS ARE PROVIDED BY THE WAVERLY GLEN HOMEOWNERS ASSOCIATION, INC. FOR THE TOWNHOUSE LOTS FRONTING PRIVATE STREETS.
- 24. IN ACCORDANCE WITH SECTION 128.0.A.1. OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES, OR DECKS, OPEN OR ENCLOSED, MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACK.
- 25. DISTANCES SHOWN ARE BASED ON SURFACE MEASUREMENT AND NOT REDUCED TO NAD '83 GRID MEASUREMENT 26. PREVIOUS HOWARD COUNTY FILE NUMBERS: 5DP-66-00, 5-94-07, P-95-07, F-95-174, ECP-14-072, 5P-16-001, WP-16-069,
- 27. NO GRADING, REMOVAL OF VEGETATIVE COVER, OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAM(5), OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS EXCEPT AS PROVIDED BY
- 28. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS: a. WIDTH-12' (16' SERVING MORE THAN ONE RESIDENCE);
- SURFACE-6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING (1-1/2"MIN.); GEOMETRY-MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS;
- STRUCTURES (CULVERTS/BRIDGES)-CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING); DRAINAGE ELEMENTS-CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN I FOOT DEPTH OVER DRIVEWAY SURFACE; STRUCTURE CLEARANCES - MINIMUM 12 FEET;
- MAINTENANCE-SUFFICIENT TO INSURE ALL WEATHER USE. 29. ARTICLES OF INCORPORATION FOR THE WAVERLY GROVE HOMEOWNERS ASSOCIATION, INC. HAVE BEEN FILED WITH THE STATE DEPARTMENT OF ASSESSMENTS AND TAXATION, RECEIPT No. D18238899, AT THE TIME OF RECORDATION OF THE FINAL PLAT #24419-24421.
- 30. A MODERATE INCOME HOUSING UNIT (MIHU) AGREEMENT HAS BEEN RECORDED SIMULTANEOUSLY WITH THE FINAL PLAT #24419-24421. 31. THE EXISTING LOTS SHOWN ON THIS PLAN ARE SUBJECT TO A FEE OR ASSESSMENT TO COVER OR DEFRAY ALL OR PART OF THE DEVELOPER'S COST OF THE INSTALLATION OF THE WATER AND SEWER FACILITIES, PURSUANT TO THE HOWARD COUNTY CODE SECTION 18.112 THIS FEE OR ASSESSMENT, WHICH RUNS WITH THE LAND, IS A CONTRACTUAL OBLIGATION BETWEEN THE DEVELOPER AND EACH OWNER OF
- THIS PROPERTY AND IS NOT IN ANY WAY A FEE OR ASSESSMENT OF HOWARD COUNTY. 32. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL. THE REQUIREMENTS OF SECTION 15.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- 33. A PRE-SUBMISSION COMMUNITY MEETING WAS HELD ON SEPTEMBER 10, 2014. DATA RELATING TO THIS MEETING WAS SUBMITTED WITH 34. THIS PLAT IS SUBJECT TO WP-18-023 WHICH ON SEPTEMBER 20, 2017 THE PLANNING DIRECTOR APPROVED A REQUEST FOR
- ALTERNATIVE COMPLIANCE TO SECTION 16.116(A)(2)(II) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS (AMENDED FIFTH EDITION) - GRADING REMOVAL OF VEGETATIVE COVER AND TREES. PAVING AND NEW STRUCTURES SHALL NOT BE PERMITTED WITHIN 75 FEET OF A PERENNIAL STREAM FOR USE I STREAMS. APPROVAL IS SUBJECT TO THE FOLLOWING FOUR (4) CONDITIONS:
- (1) NO ADDITIONAL DISTURBANCE OR GRADING SHALL OCCUR WITHIN THE 75-FOOT STREAM BUFFER OF OPEN SPACE LOT 32 THAN THAT WHAT'S DETAILED FOR THE RETAINING WALL EASEMENT ON THE ALTERNATIVE COMPLIANCE PETITION. (2) A REDLINE REVISION TO THE FINAL CONSTRUCTION PLANS (F-16-101) MUST BE SUBMITTED FOR REVIEW TO DETAIL THE LOCATION OF THE
- RETAINING WALL, ITS LIMIT OF DISTURBANCE (IF APPLICABLE) AND THE WALLS MAINTENANCE EASEMENT PRIOR TO THE RECORDATION OF THE
- (3) PROVIDE A NOTE ON THE FINAL PLAT (F-16-101) THE CONSTRUCTION PLANS AND THE SITE DEVELOPMENT PLAN REGARDING THIS ALTERNATIVE COMPLIANCE PETITION APPROVAL. THIS NOTE SHALL INCLUDE THOSE SUBDIVISION REGULATION SECTION PETITIONED, THE DATE
- OF THE ALTERNATIVE COMPLIANCE APPROVAL, AND THE CONDITIONS OF APPROVAL. (4) SHOULD DPW AND DED REQUIRE A PROTECTION FENCE ABOVE THE RETAINING WALL, THE FENCE MUST BE METAL DECORATIVE IN APPEARANCE AND NOT HAVE A CHAIN-LINK FENCE APPEARANCE.

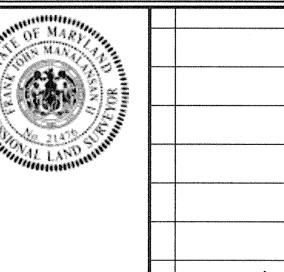
M.I.H.U. Note: Please Note That Lots 1 Thru 30 In This Subdivision Are Subject To The Moderate Income Housing Unit (M.I.H.U.) Requirement. The M.I.H.U.

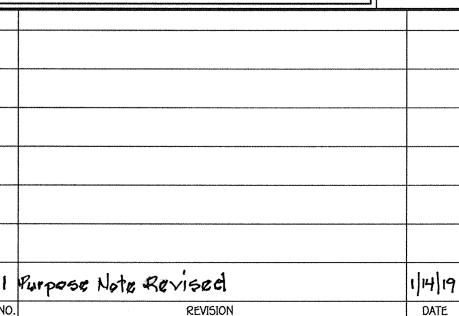
## PROFESSIONAL CERTIFICATION

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:









OWNER/DEVELOPER WARFIELD WOODS LLO C/O KENNARD WARFIELD JR 14451 TRIADELPHIA 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 3.13.18 3 1 9-18 1 THRU 30 WAVERLY GROVE BLOCK NO. ZONE CENSUS TR. TAX/ZONE | ELEC. DIST. 24419-24421 6 R-5A-8

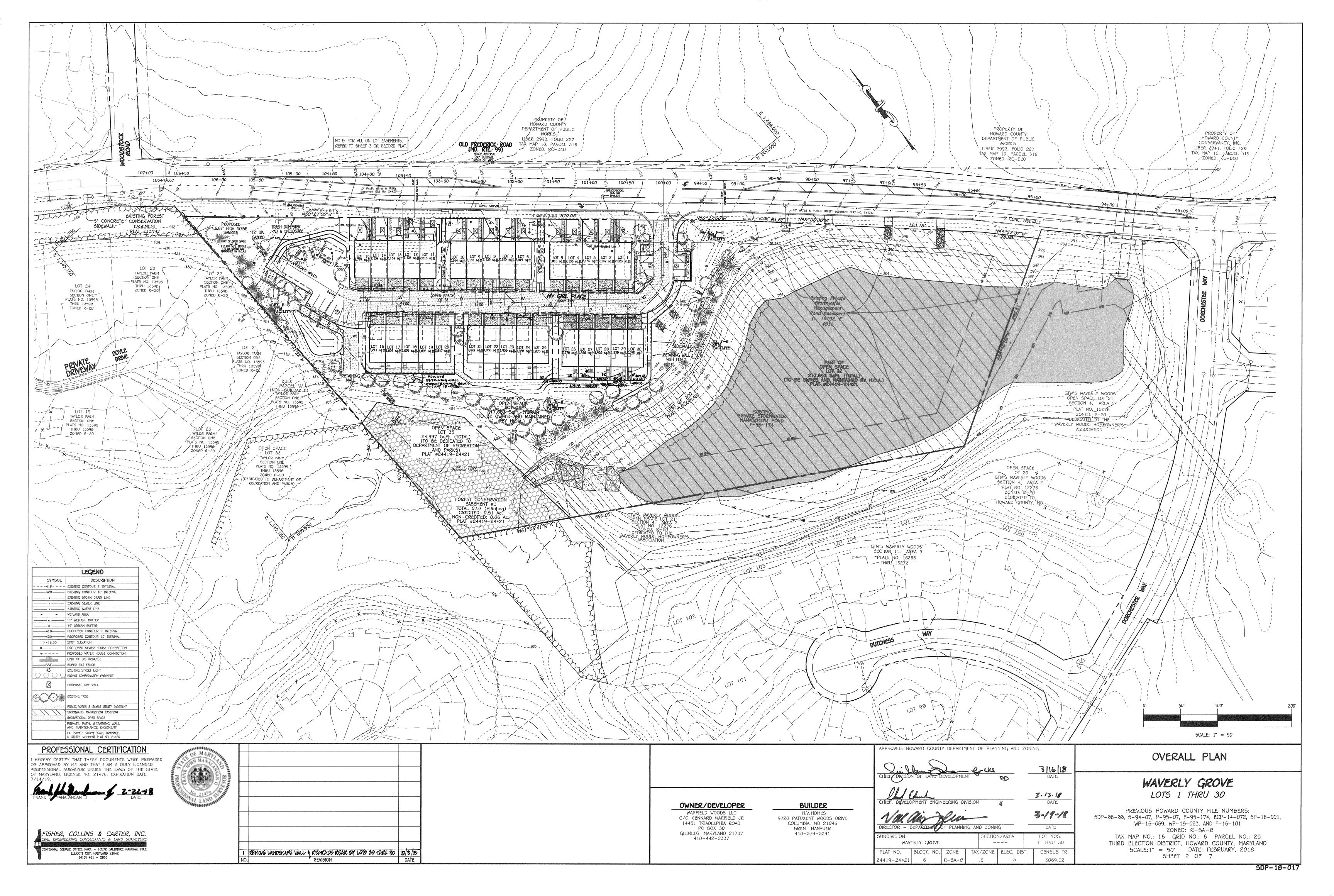
TITLE SHEET

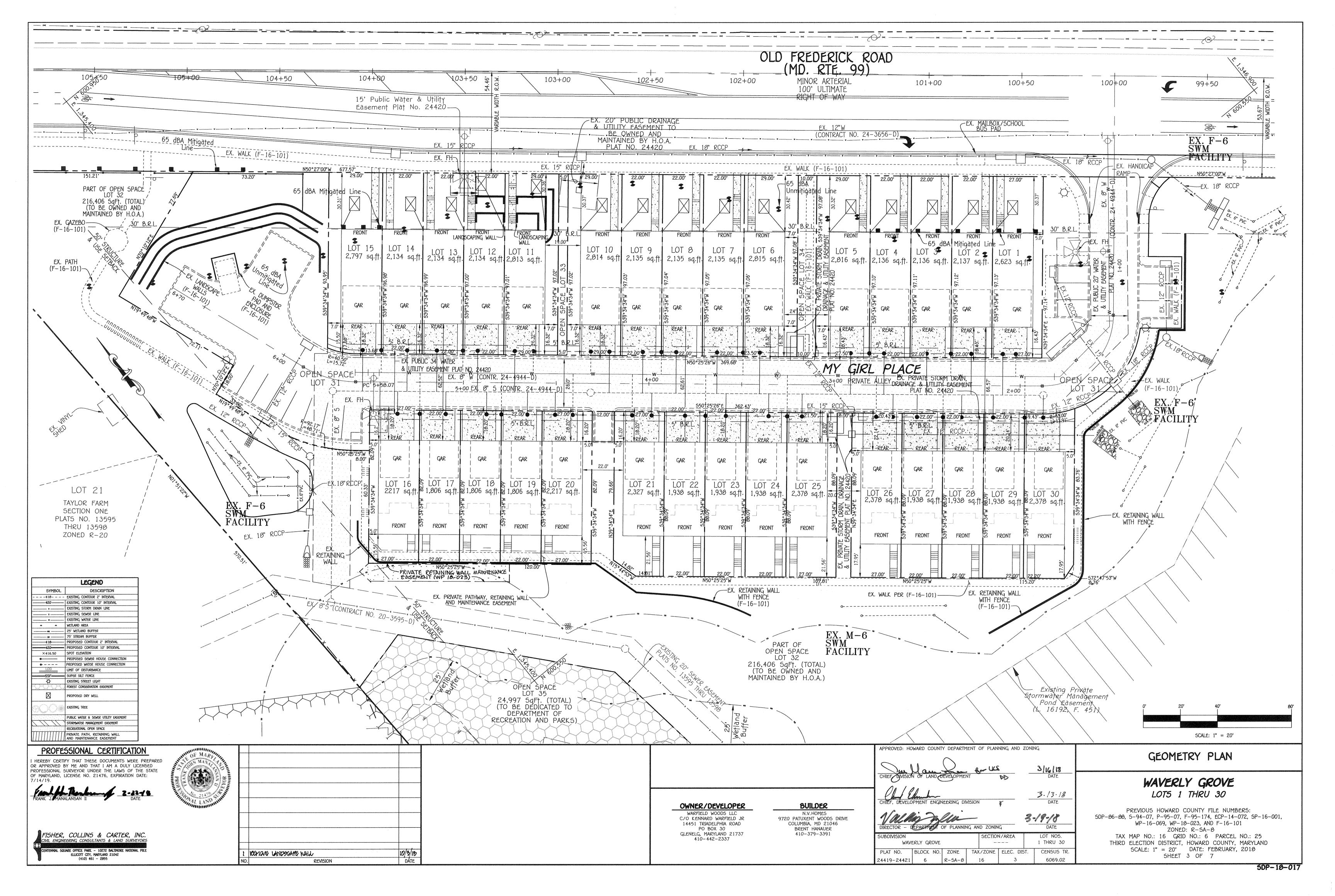
Agreement Is Recorded In Liber 17914 Folio 279 Identifying

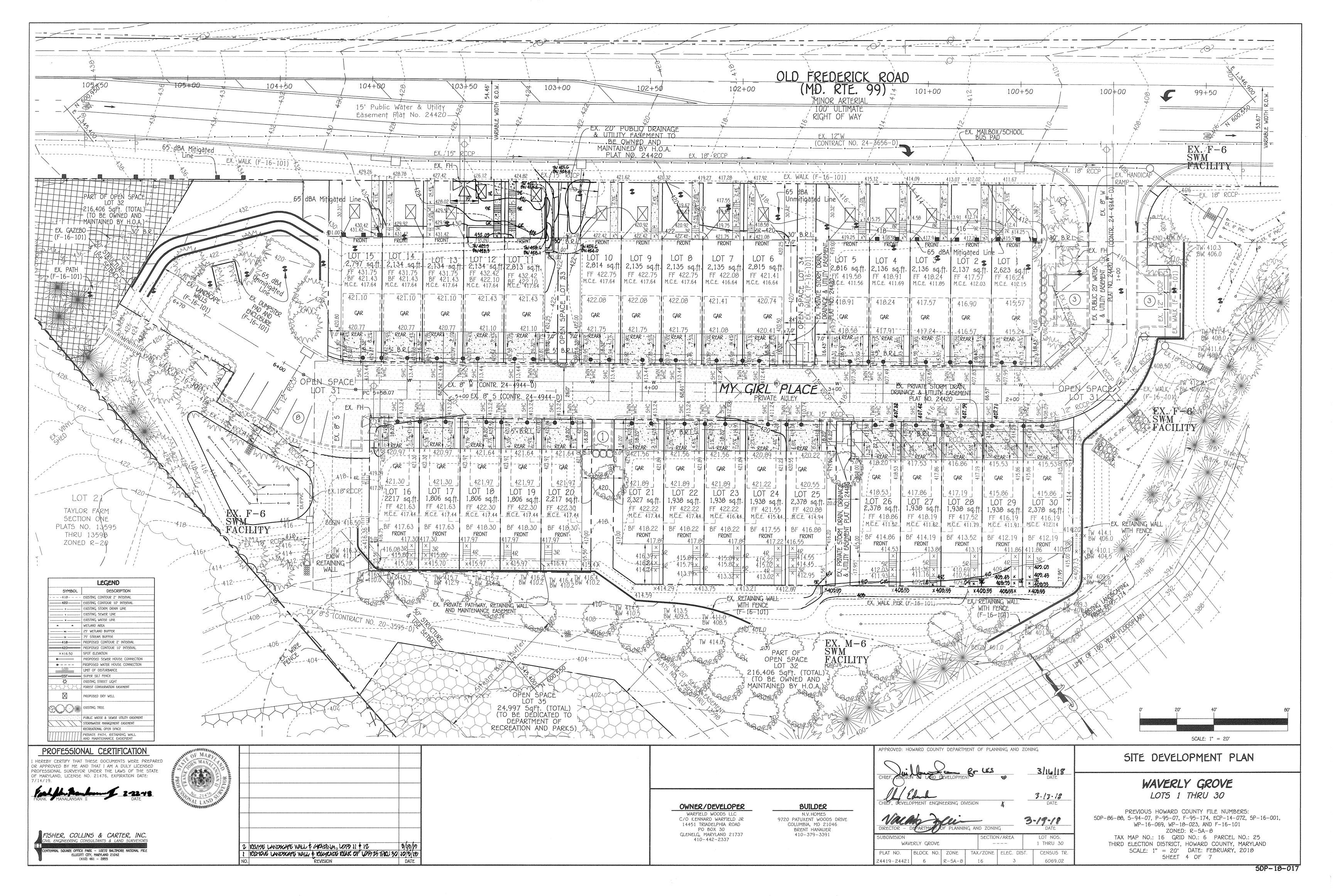
#### WAVERLY GROVE LOTS 1 THRU 30

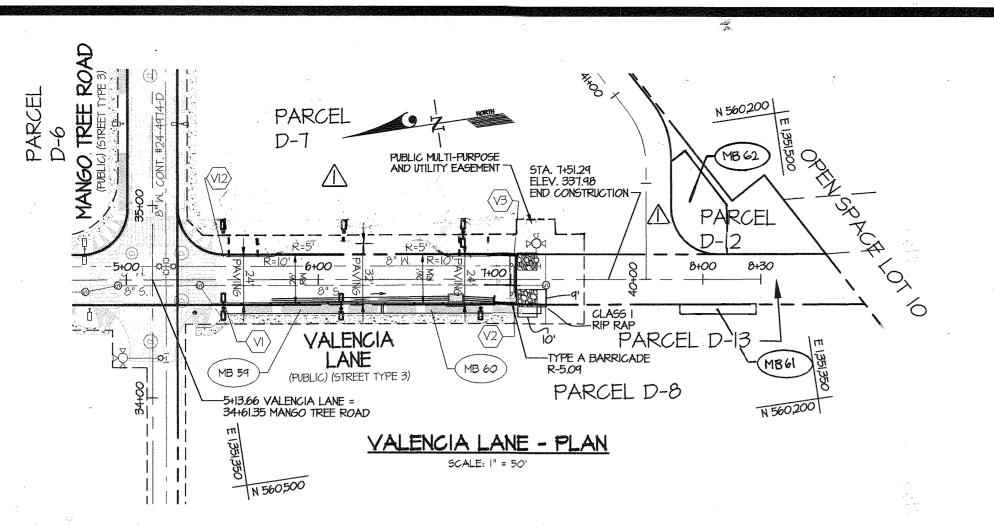
PREVIOUS HOWARD COUNTY FILE NUMBERS: 5DP-66-66, 5-94-07, P-95-07, F-95-174, ECP-14-072, 5P-16-001, WP-16-069, WP-10-023, AND F-16-101 ZONED: R-5A-8

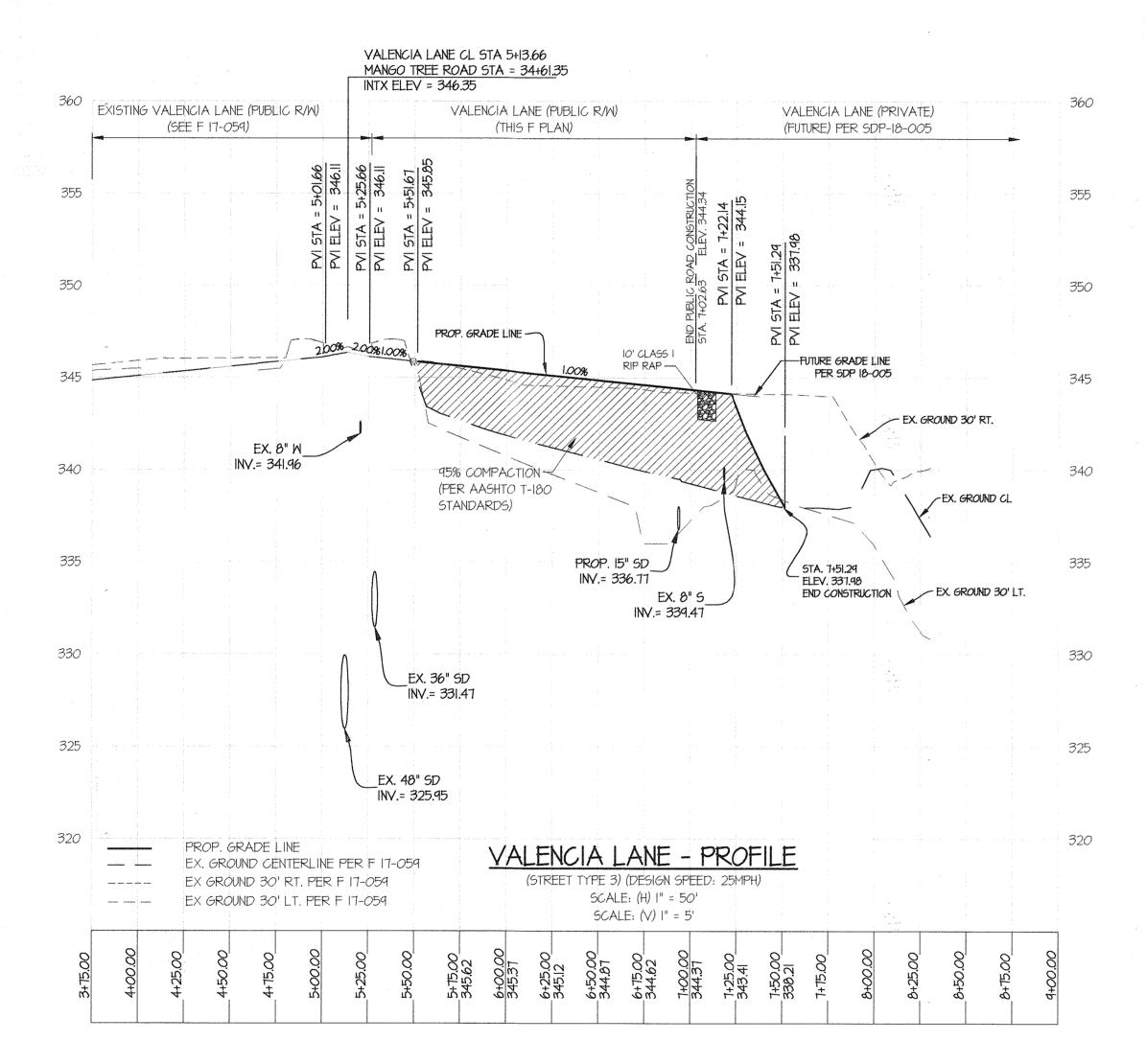
TAX MAP NO.: 16 GRID NO.: 6 PARCEL NO.: 25 THIRD ELECTION DISTRICT. HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: FEBRUARY, 2018 SHEET 1 OF 7

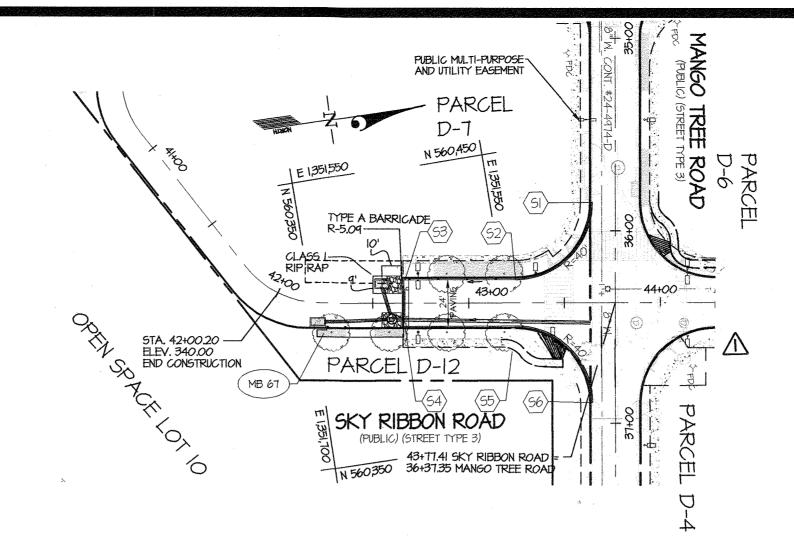




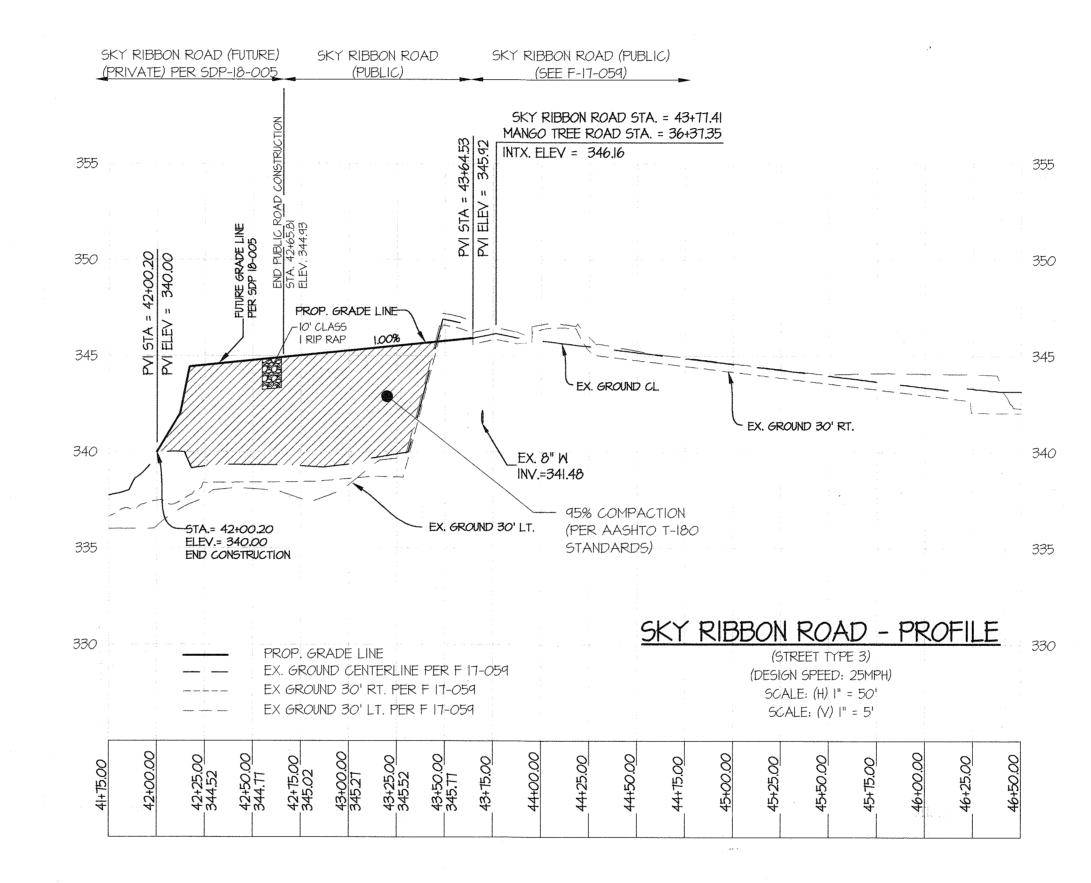








#### SKY RIBBON ROAD - PLAN SCALE: |" = 50'



	VALENCIA LANE							
	CURB FLOW LINE ELEVATION TABLE							
	PT. NO	STATION	OFFSET	ELEV.				
	(VI)			MATCH EX.				
	· (V2)	7+01.66	12.0' R	344.09				
	⟨V3⟩	7+01.66	12.0' L	344.09				
$\wedge$		, .						
<u> </u>			->					
*								
				N. Carlotte				
		V + + 1		, week, and				
	⟨V12⟩			MATCH EX.				

Sk	Y RIBE	BON RO	DAD
CURB	FLOW LINE	ELEVATION	ON TABLE
PT. NO	STATION	OFFSET	ELEV.
(SI)			MATCH EX.
(52)	43+24.5	12.0' L	345.26
(53)	42+66.8	12.0' L	344.68
(54)	42+66.8	12.1' R	344.68
(55)	43+24.5	12.0' R	345.26
(56)			MATCH EX.

## GENERAL NOTES:

- I. SEE SHEET 3 FOR EXISTING ITEMS TO BE REMOVED AND BEARINGS
- AND DISTANCES. 2. SEE SHEET 6 FOR TYPICAL ROAD SECTIONS.
- 3. SEE SHEET 6 FOR CURB DETAILS.
- 4. SEE SHEET 12 FOR FLOODPLAIN CROSS SECTION AND WSEL'S. 5. SEE SHEETS 7-8 FOR STORM DRAIN INFORMATION.
- 6. SEE SHEET IO FOR STREET TREES AND STREET LIGHTS. 7. 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. 8. TRAFFIC BARRICADES AND CLASS I 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. 9. 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. 10. CURB CUTS ON EAST SIDE OF DOVE SAIL LANE TO BE COORDINATED
- WITH SWM DEVICES BEING CONSTRUCTED UNDER SDP 17-027. 11. ALL EX. 8" WATER AND SEWER PER CONTRACT #24-4974-D. ALL EX. STORM DRAIN PER F-17-059.

#### **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 17-027 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 17-027 AND SDP 18-005.

## **LEGEND**

EXISTING PAVING

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  Chief, Bureau of Highways  Date	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  Vertilized 7-02-18  Chief, Division of Land Development Date	
Chief, Development Engineering Division Bote	
GLWGUTSCHICK LITTLE &WEBER, P.A.	

BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

L'(2000)(BRANNKS)(11071/11071-AREA 3)(PLANS BY CLW)F 18-017 Procs\(11071\_AREA 38-F-04-65 - Rood Floolung | DES. DMW DRN. LAG CHK. DEV

© GLW 2018

Chlef, Bureau of Highways	Date	CONCRETE WALKS		FLOODPLAIN		
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APPROVED: HOWARD COUNTY DEPARTMENT OF	PLANNING & ZONING	ASPHALT PATH	ERL-1	2014 ENVIRONMENTAL REST	TORATION LIMIT	S
Kent Stenlingh	7-02-18	PLANTER	ERL-2	2016 ENVIRONMENTAL REST	TORATION LIMIT	5
Chief, Division of Land Development	Date		#	BOND NOTE REFERENCE		
Chief, Development Engineering Division	<b>5.29.18</b> Date	TREE PIT (M-6)				
CT T T T T						
GLWGUTSCHICK LITTLE &	WEBER, P.A.	::				_
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, L	ANDSCAPE ARCHITECTS					
3909 NATIONAL DRIVE — SUITE 250 — BURTONSVILLE	OFFICE PARK					SHEET

----- SB ----- 50' STREAM / BANK BUFFER

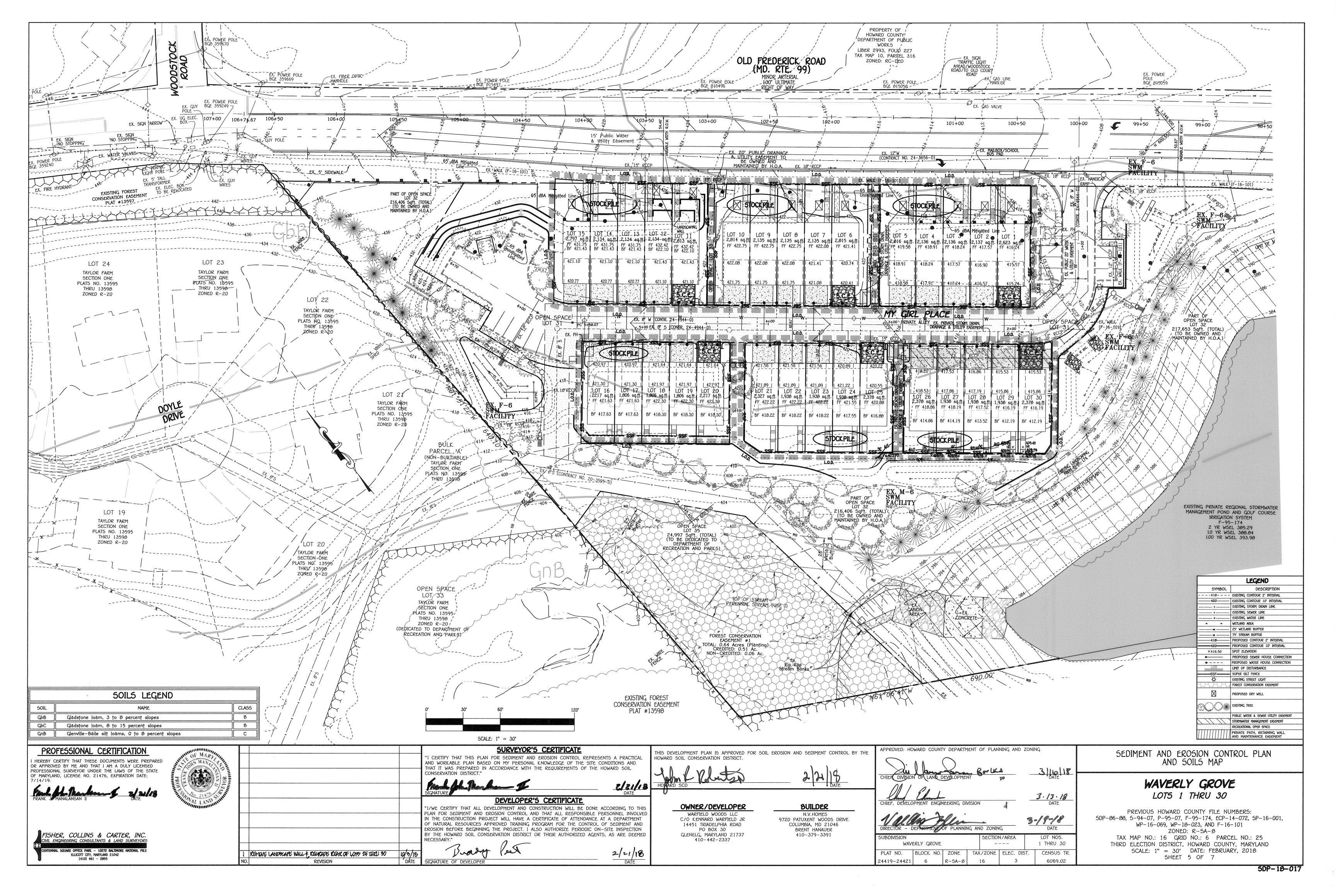
---- WB ---- 25' WETLAND BUFFER

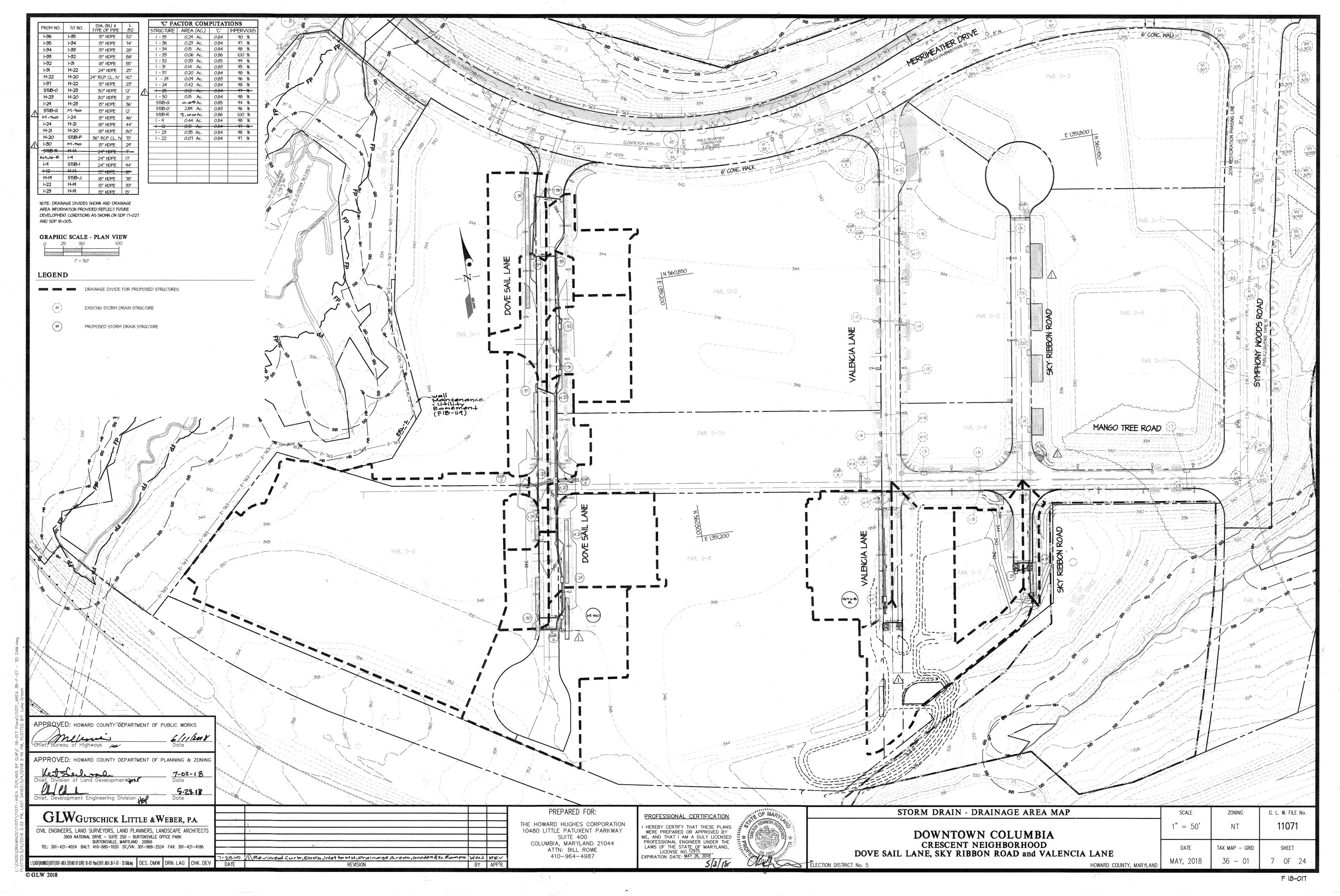
				PREPARED FOR:
		<b></b>	·	THE HOWARD HUGHES CORPORATION
		<b>-</b>	<b> </b>	10480 LITTLE PATUXENT PARKWAY SUITE 400
		1		COLUMBIA, MARYLAND 21044
				ATTN: BILL ROWE
7-29-19	NEV. FLOW LINE, REMOVED EX. PLANTER, CROSSWALKS, RAMPS, ADDED EX. MICRO-BIOG	9+	DEV.	410-964-4987
DATE	REVISION	BY	APP'R.	<u>\$</u> .

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	A PRO
EXPIRATION DATE: MAY 26, 2018	
5/3/18	C

LANS BY NSED THE AND,	OF MAR SIENNETHOUSE * PROCESSION AND THE PROCESSION
18	CALENCIA

SKY RIBBON ROAD and VALENCIA LANE - PLAN and PROFILE		SCALE	ZONING	G. L. W. FILE No
DOWNTOWN COLUMBIA		1"=50'	NT	11071
CRESCENT NEIGHBORHOOD DOVE SAIL LANE, SKY RIBBON ROAD and VALENCIA LANE	M	DATE AY, 2018	TAX: MAP — GRID  36 — 01	SHEET 5 OF 24
ELECTION DISTRICT No. 5 HOWARD COUNTY,	MARYLAND IVI	71, 2010	50 - 01	J UF 22





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

#### A. SOIL PREPARATION

- 1. TEMPORARY STABILIZATION A SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT. SUCH AS DISC HARROWS OR CHISEL PLOWS OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT, AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH BUT LEFT IN THE ROUGHENED CONDITION, SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.
- B. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS. C. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. PERMANENT STABILIZATION
- A. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: I, SOIL PH BETWEEN 6.0 AND 7.0.
- IL SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM). III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL (GREATER THAN 30 PERCENT
- SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE. IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
- V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. B. APPLICATION OF AMENOMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS. ). Graded areas must be maintained in a true and even grade as specified on the approved plan, then
- SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3 TO 5 INCHES D. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST E. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR seed application. Loosen surface soil by dragging with a heavy chain or other equipment to roughen the SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEPORED PREPARATION, TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE, LEAVE THE TOP I TO 3 INCHES OF SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE ecessary on newly disturbed areas

BE USED FOR CHEMICAL ANALYSES.

ACTIVE GRADING.

1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS LOW PH. MATERIALS TOXIC TO PLANTS AND/OR UNACCEPTABLE SOIL CRADATION. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDARDS AS SET FORTH IN

THESE SPECIFICATIONS, TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL TYPE CAN BE FOUND

- IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-NRCS. 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: A THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTH.
- B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS.
- C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. 4. AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

OR OTHER MATERIALS LARGER THAN 1 1/2 INCHES IN DIAMETER

- 5. TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA A TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND, OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, TOPSOIL MUST NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH,
- B. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACK GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. C. TOPSOIL SUBSTITUTES OR AMENOMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND
- APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL 6. TOPSOIL APPLICATION
- A EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL B. UNIFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MINIMUM THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF additional soil preparation and tillage, any irregularities in the surface resulting from topsoiling or OTHER OPERATIONS MUST BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. C. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED
- C. SOIL AMENDMENTS (FERTILIZER & LIME SPECIFICATIONS) 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO
- 2. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR APPROVAL FROM THE APPROPRIATE APPROVAL AUTHORITY. FERTILIZERS MUST ALL BE DELIVERED TO THE SITE FULLY LABELED ACCORDING TO THE APPLICABLE LAWS AND MUST BEAR THE NAME, TRADE NAME OR
- TRADEMARK AND WARRANTY OF THE PRODUCER. 3. LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE SUBSTITUTED EXCEPT WHEN HYDROSEPDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MACNESIUM OXIDE) LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE
- AND 90 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE. 4. LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY
- S. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL

#### 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 DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1). 8.) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER

#### 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 HAZAROS AND IMPROVE TRAFFIC SAFETY.

<u>CONDITIONS WHERE PRACTICE APPLIES</u> 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 CRIMPED
- OR TACKED TO PREVENT BLOWING. 2. VEGETATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER. 3. TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERGENCY MEASURE WHICH A DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE
- PLOWS SPACED ABOUT 12" APART, SPRING-TOOTHED HARROWS AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT
- 4. IRRIGATION THIS IS GENERALLY DONE AS AN EMERGENCY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW.
- 5. BARRIPPS SOLID BOARD FENCES SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALE DIKES AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CONTROLLING SOIL BLOWING. CURRENTS AND SOIL BLOWING. CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS
- OF ABOUT TO TIMES THEIR HEIGHT ARE EFFECTIVE IN 6. CALCIUM CHLORIDE - APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT PERMANENT METHODS
- 1. PERMENENT VEGETATION SEE STANDARDS FOR PERMANENT VEGETATIVE COVER AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE. 2. TOPSOILING - COVERING WITH LESS EROSIVE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING. 3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL

#### SEQUENCE OF CONSTRUCTION

(14 DAYS)

(7 DAYS)

(3 DAY5)

(6 MONTHS)

- 1. OBTAIN A GRADING PERMIT AND HOLD PRE-CONSTRUCTION MEETING WITH COUNTY INSPECTOR. 2. NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION/ INSPECTION AT 410-313-1330 AT LEAST
- 24 HOURS BEFORE STARTING WORK. INSTALL THE STABILIZED CONSTRUCTION ENTRANCE, AND SUPER-SILT FENCE. 4. ROUGH GRADE AROUND HOUSE SITE AND INSTALL TEMPORARY SEEDING, IF REQUIRED. 5. COMMENCE TOWNHOUSE CONSTRUCTION
- 6. BOTALL STREET AND INSTALL PERMANENT SEEDING.
  7. FINE GRADE SITE AND INSTALL PERMANENT SEEDING.
  8. ALL FINAL GRADES 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

## TEMPORARY SEEDING NOTES (B-4-4)

- TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. PURPOSE
- TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION PRACTICES ARE REQUIRED.
- CRITERIA 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE 8.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.
- 2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY TH TESTING AGENCY. SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING. 3. WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION 8-4-3.4.1.8 AND MAINTAIN UNTIL THE NEXT SEEDING SEASON.

	TEMP	ORARY SEEDI	NG SUMM	IARY	
Hardiness Seed Mixtu	ZONE (FROM FIGURE RE (FROM TABLE B.1	8.3): <u>68</u> ):		FERTILIZER RATE (10-20-20)	LIME RATE
5PECIE5	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
BARLEY	96		1"	130 10/10	a TONE INC
OATS	72	3/1 - 5/15, 8/15 - 10/15	. 1"	436 LB/AC (10 LB/ 1000 5F)	2 TONS/AC (90 LB/ 1000 SF)
RYE	112		Į"	1000 31 /	1000 51)

#### PERMANENT SEEDING NOTES (B-4-5)

#### A. SEED MIXTURES

- A SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE 8.3) AND BASED ON THE SITE CONDITION OR PURPOSE FOUND ON TABLE 8.2. ENTER SELECTED MIXTURE(5), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN.
- B. ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC TREATMENT MAY BE FOUND IN USDA-NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342 - CRITICAL AREA PLANTING. C. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED BY THE SOIL TESTING AGENCY. D. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO
- THE SOIL AMENOMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY 2 THREGRASS MIXTURES A. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES
- WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. B. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE PLAN. I. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT.
- IRRICATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE, RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. IL KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO INTENSIVE MANAGEMENT.
- CERTIFIED PERENNIAL RYEGRASS CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER 1000 SQUARE FEET, CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT OF THE TOTAL MIXTURE BY WEIGHT. III. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. RECOMMENDED MIXTURE INCLUDES; CERTIFIED TALL FESCUE CULTIVARS 95 TO 100 PERCENT, CERTIFIED KENTUCKY
- BLUEGRASS CULTIVARS 0 TO 5 PERCENT. SEEDING RATE: 5 TO 8 POUNDS PER 1000 SQUARE FEET. ONE OR MORE CULTIVARS MAY BE BLENDED. IV. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA. MIXTURE INCLUDES; ERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60
- TO 70 PERCENT. SEEDING RATE: 1 1/2 TO 3 POUNDS PER 1000 SQUARE FEE SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS FOR MARYLAND" CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. TH CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND ASSURES A PURE GENETIC LINE
- . IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES WESTERN MD: MARCH 15 TO JUNE 1. AUGUST 1 OCTOBER 1 (HARDINESS ZONES: 58, 6A) CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 1 (HARDINESS ZONE: 68) SOUTHERN MD, EASTERN SHORE; MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONES: 7A, 78) D. TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2 TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE STONES AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER THE RESULTING SEEDBED MUST BE IN SUCH CONDITION THAT FUTURE MOWING OF
- GRASSES WILL POSE NO DIFFICULTY. E. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES

#### PERMANENT SEEDING SUMMARY HARDINESS ZONE (FROM FIGURE B.3): \_\_\_\_68\_\_\_ FERTILIZER RATE (10-20-20) LIME RATE NO. SPECIES APPLICATION RATE SEEDING (LB/AC) DATES (LB/AC) 1/4-1/2 PER ACRE (2 LB/ (2 LB/ (90 LB/AC 1000 SF) 1000 SF)

#### B. 50D: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

- 1. GENERAL SPECIFICATIONS A CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. 8. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS TO 3/4 INCH, PLUS OR MINUS 1/4 INCH, AT THE TIME OF cutting, measurement for thickness must exclude top growth and thatch, broken pads and torn or UNEVEN ENDS WILL NOT BE ACCEPTABLE. STANDARD SIZE SECTIONS OF SOO MUST BE STRONG PROJECT TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION. D. 50D MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OF WET) MAY ADVERSELY AFFECT ITS SURVIVAL E. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED
- within this period must be approved by an agronomist or soil scientist prior to 115 installation. 2. SOD INSTALLATION SUBSOIL IMMEDIATELY PRIOR TO LAYING THE 500. SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF THE SITE. CHISEL-TYPE B. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED ACAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH.
  - ensure that 500 is not stretched or overlapped and that all joints are butted tight in order to PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS, . Wherever possible, lay sod with the long edges parallel to the contour and with staggering joints. roll and tamp, peg or otherwise secure the sod to prevent suppage on slopes, ensure solid contact
  - EXISTS BETWEEN 500 ROOTS AND THE UNDERLYING SOIL SURFACE. D. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING, AND irricating for any piece of 500 within eight hours. 3. SOD MAINTENANCE
  - A. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES, WATER SOD DURING THE HEAT OF THE DAY TO B. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT. C. DO NOT MOW UNTIL THE 500 IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS

#### HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

- 1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
- A. PRIOR TO THE START OF EARTH DISTURBANCE.
- B. UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING,
- PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT,
- D. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE. OTHER RELATED STATE AND FEDERAL PERMITS SHALL BE REFERENCED, TO ENSURE COORDINATION AND TO AVOID CONFLICTS WITH THIS PLAN.
- 2. 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. AND REVISIONS THERETO.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3/1), AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING. 4. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011
- MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL STOCKPILES (SEC. 8-4-9) IN EXCESS OF 20 FT, MUST BE BENCHED WITH STABLE OUTLET. ALL
- CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. 8-4-6). 5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.
- 6. SITE ANALYSIS: TOTAL AREA OF SITE 1.73 ACRES 1.73 ACRES AREA DISTURBED: AREA TO BE ROOFED OR PAVED: 1.04 ACRES AREA TO BE VEGETATIVELY STABILIZED: 0.69 ACRES 1,629 CU, Y05 TOTAL CUT:

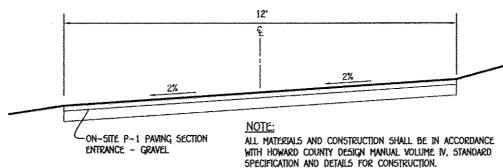
TOTAL FILL:

OFFSITE WASTE/BORROW AREA LOCATION: N/A 7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE 6. ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND A11 CONTROLS SHALL

354 CU. YDS.

- BE INSPECTED BY THE CONTRACTOR WEEKLY: AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
- . INSPECTION DATE · INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT) NAME AND TITLE OF INSPECTOR
- WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION) BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES EVIDENCE OF SEDIMENT DISCHARGES
- IDENTIFICATION OF PLAN DEFICIENCIES IDENTIFICATION OF SEDIMENT CONTROLS THAT RECUIRE MAINTENANCE IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
- COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS MONITORING/SAMPLIN
- MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, MDE) ). TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE
- BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER. 10. ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE HSCD PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
- 11. DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE HSCD. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
- 2. WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE. 13. TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.
- 14. ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION.
- 5. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS
- · USE I AND IP MARCH 1 JUNE 15 . USE III AND IIIP OCTOBER 1 - APRIL 30 · USE IV MARCH 1 - MAY 31
- 16. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

FOR STANDARDS AND SPECIFICATION FOR SEED AND MULCHING (SECTION (b) AND PLANT HARDINESS ZONES DELINEATE AREAS WHERE A SPECIES CAN BE SUCCESSFULLY ESTABLISHED BASED ON AVERAGE ANNUAL MINIMUM TEMPERATURES (FIGURE B.3) PLEASE REFER TO 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL



TYPICAL PRIVATE DRIVE CROSS SLOPE SECTION NOT TO SCALE

HIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY

HOWARD SOIL CONSERVATION DISTRICT

OWNER/DEVELOPER

WARFIELD WOODS LLC

C/O KENNARD WARFIELD JR

14451 TRIADELPHIA ROAD

PO BOX 30

GLENELG, MARYLAND 21737

410-442-2337

#### TABLE B.1 TEMPORARY SEEDING FOR SITE STABILIZATION

DIANT COCCC	SEED	ING RATE 1/	SEEDING DEPTH 2/	RECOMMENDED SEEDING DATES BY PLANT HARDINESS ZONE 3/			
PLANT SPECS	LB./AC.	LB./1000 FT. <sup>2</sup>	(121011-0)	5b AND 6a	6b	7a AND 7b	
COOL-SEASON GRASSES							
ANNUAL RYEGRASS (LOLIUM PERENNE 55P, MUTIFLORUM)	40	1.0	0.5	MAR. 15 TO MAY 31; AUG. 1 TO SEPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
BARLEY (HORDEUM VULGARE)	96	2.2	1.0	MAR. 15 TO MAY 31; AUG. 1 TO SEPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
OATS (AVENA SATIVA)	72	1.7	1.0	MAR. 15 TO MAY 31; AUG. 1 TO SEPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15.	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
WHEAT (TRITICUM AESTIVUM)	120	2.8	1,0	MAR. 15 TO MAY 31; AUG. 1 TO SEPT. 30	MAR. 1 TO MAY 15; AUG. 1 TO OCT. 15	FEB. 15 TO APR. 30; AUG. 15 TO NOV. 30	
CEREAL RYE (SECALE CEREALE)	112	2.8	1.0	MAR. 15 TO MAY 31; AUG. 31 TO OCT. 31	MAR. 1 TO MAY 15; AUG. 1 TO NOV. 15	FEB. 15 TO APR. 30; AUG. 15 TO DEC. 15	
WARM-SEASON GRASSES		•					
FOXTAIL MILLET (SETARIA ITALICA)	30	0.7	0.5	JUNE 1 TO JULY 31	MAY 16 TO JULY 31	MAY 1 TO AUGUST 14	
PEARL MILLET (PENNISETUM GLAUCUM)	20	0.5	0.5	JUNE 1 TO JULY 31	MAY 16 TO JULY 31	MAY 1 TO AUGUST 14	

1. SEEDING RATES FOR THE WARM-SEASON GRASSES ARE IN POUNDS OF PURE LIVE SEED (PLS). ACTUAL PLANTING RATES SHALL BE ADJUSTED TO REFLECT PERCENT SEED GERMINATION AND PURITY, AS TESTED. ADJUSTMENTS ARE USUALLY NOT NEEDED FOR THE COOL-SEASON GRASSES.

SEEDING RATES LISTED ABOVE ARE FOR TEMPORARY SEEDINGS, WHEN PLANTED ALONE. WHEN PLANTED AS A NURSE CROP WITH PERMANENT SEED MIXES, USE 1/3 OF THE SEEDING RATE LISTED ABOVE FOR BARLEY, DATS AND WHEAT, FOR SMALLER-SEEDED GRASSES (ANNUAL RYEGRASS, PEARL MILLET, FOXTAIL MILLET), DO NOT EXCEED MORE THAN 5% (BY WEIGHT) OF THE OVERALL PERMANENT SEEDING MIX. CEREAL RYE GENERALLY SHOULD NOT BE USED AS A NURSE CROP, UNLESS PLANTING WILL OCCUR IN VERY LATE FALL BEYOND THE SEEDING DATES FOR OTHER TEMPORARY SEEDINGS. CEREAL RYE HAS ALLELOPATHIC PROPERTIES that inhibit the germination and growth of other plants, if it must be used as a nurse crop, seed at 1/3 of the rate listed above.

OATS ARE THE RECOMMENDED NURSE CROP FOR WARM-SEASON GRASSES. 2. FOR SANDY SOILS, PLANT SEEDS AT TWICE THE DEPTH LISTED ABOVE.

3. THE PLANTING 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

TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR

DEFINITION A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. PURPOSE

STANDARD SYMBOI

----SSF-------

-34 IN MIN

-36 IN MIN.

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

**DETAIL E-3** 

GROUND SURFACE-

STEEL OR ALUMINUM POSTS

CONSTRUCTION SPECIFICATIONS

OF THE SUPER SUT FENCE.

U.S. DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

SUPER SILT FENCE

CHAIN LINK FENCING-

WOVEN SLIT FILM GEOTEXTILE-

CHAIN LINK FENCE 8 IN MIN. INTO GROUND

FLOW -

10 FT MAX.

**ELEVATION** 

CROSS SECTION

INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX

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 HUG RINGS.

FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID

SECTION, EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES,

EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT

45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS

PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT

REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT

REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.

FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART, DRIVE THE POSTS A MINIMUM OF 36

GALVANIZED CHAIN LINK FENCE WITH WOVEN SLIT FILM GEOTEXTILE

DETAIL B-1 STABILIZED CONSTRUCTION

ENTRANCE

CONSTRUCTION SPECIFICATIONS

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

EXISTING ROAD TO PROVIDE A TURNING RADIUS.

DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

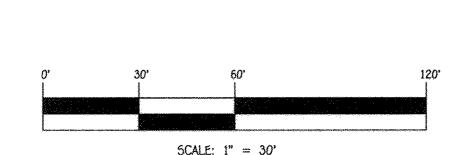
FROSION, SEDIMENTATION AND CHANGES TO DRAINAGE PATTERNS. CONDITIONS WHERE PRACTICE APPLIES STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR LATER USE.

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN. 2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1 BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING. 3. RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL PRACTICE.

4. ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. 5. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DEVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE. PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-FROSIVE MANNER. 6. WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL, AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE DISCHARGE.

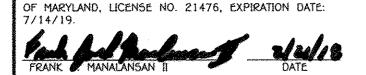
7. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION REQUIREMENT AS WELL AS STANDARD 8-4-1 INCREMENTAL STABILIZATION AND STANDARD 8-4-4 TEMPORARY STABILIZATION. 8, IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING. MAINTENANCE

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN accordance with section 8–4 vegetative stabilization, side slopes must be maintained at no steeper than a 2:1 RATIO, THE STOCKPILE AREA MUST BE KEPT FREE OF EROSION. IF THE VERTICAL HEIGHT OF A STOCKPILE EXCEEDS 20 FEET FOR 2;1 SLOPES, OR 30 FEET FOR 3;1 SLOPES, OR 40 FEET FOR 4:1 SLOPES, BENCHING MUST BE PROVIDED IN ACCORDANCE WITH SECTION B-3 LAND GRADING.



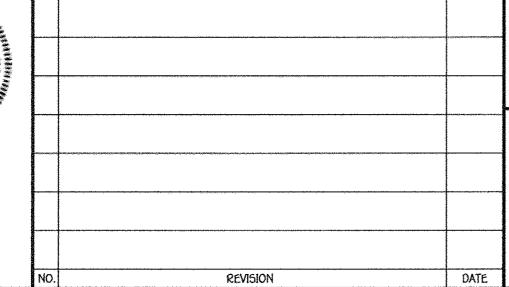
#### PROFESSIONAL CERTIFICATION

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





(410) 461 - 2855



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

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 N THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT F 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 50IL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED IECESSARY."

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

24419-24421

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 3-/9-/9 SECTION/AREA SUBDIVISION LOT NO5. WAVERLY GROVE 1 THRU 30 TAX/ZONE | ELEC. DIST. CENSUS TR. PLAT NO. BLOCK NO. ZONE

R-5A-8

6069.02

SEDIMENT & EROSION CONTROL NOTES AND DETAILS

#### WAVERLY GROVE LOTS 1 THRU 30

PREVIOUS HOWARD COUNTY FILE NUMBERS: 5DP-86-88, 5-94-07, P-95-07, F-95-174, ECP-14-072, 5P-16-001. WP-16-069, WP-18-023, AND F-16-101

ZONED: R-5A-8 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

5DP-18-017

STANDARD SYMBOL

SCE

- EXISTING PAVEMENT

-EDGE OF EXISTINGPAVEMENT

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

-EARTH FILL

PROFILE

PLAN VIEW

PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES

PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE,

TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT

L. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE

(WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (\*30 FEET

MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS

SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE

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

MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE

ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS

OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

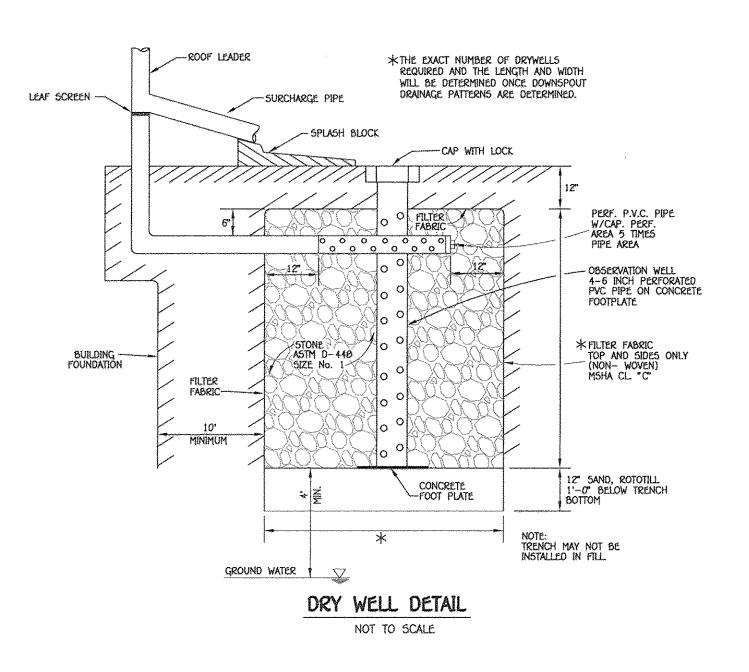
SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR

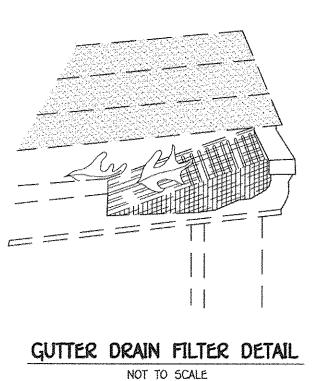
TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING

FOR SINGLE RESIDENCE LOT), USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE

50 FT MIN.

-PIPE (SEE NOTE 6)





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 GIRL PLACE	LOT 1	2	550 SqFt	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10514 MY GIRL PLACE	LOT 2	2	550 5qF†	79 Cuft	Ø3 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10516 MY GIRL PLACE	LOT 3	2	550 SqF†	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10518 MY GIRL PLACE	LOT 4	2	550 SqF†	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10520 MY GIRL PLACE	LOT 5	2	550 SqFt	79 CuF†	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10524 MY GIRL PLACE	LOT 6	2	550 SqFt	79 CuFt	83 CuFt	100%	100%		7.5' X 5.5' X 5'		
10526 MY GIRL PLACE	LOT 7	2	550 SqF†	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10528 MY GIRL PLACE	LOT 8	2	550 SqFt	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10530 MY GIRL PLACE	LOT 9	2	550 SqF†	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10532 MY GIRL PLACE	LOT 10	2	550 5qF†	79 CuF†	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10536 MY GIRL PLACE	LOT 11	2	550 S4F†	79 CuFt	83 CuFt	100%	100%	1	7.5' X 5.5' X 5'		
10538 MY GIRL PLACE	LOT 12	2	550 SqFt	79 CuFt	83 CuFt	100%	100%	1	7.5' X 5.5' X 5'		
10540 MY GIRL PLACE	LOT 13	2	550 SqF†	79 CuF†	93 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10542 MY GIRL PLACE	LOT 14	2	550 5qF†	79 CuFt	83 CuF†	100%	100%	1	7.5' X 5.5' X 5'		
10544 MY GIRL PLACE	LOT 15	2	550 SqF†	79 CuFt	83 CuF†	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.

(PROVIDED UNDER
F-16-101)

+POST SPACING PER STRUCTURAL DRAWINGS

HEIGHT TO BE DETERMINED BY ENGINEER

BLACK ALUMINUM POWDER

COATED ORNAMENTAL FENCE

ON CONCRETE WALL

# OPERATION AND MAINTENANCE SCHEDULE FOR DRYWELLS (M-5)

a. The owner shall inspect the monitoring wells and structures on a quarterly basis and after every heavy storm event.

b. 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.

c. The owner shall maintain a log book to determine the rate at which the facility drains.

d. 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.

e. The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.

f. 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.

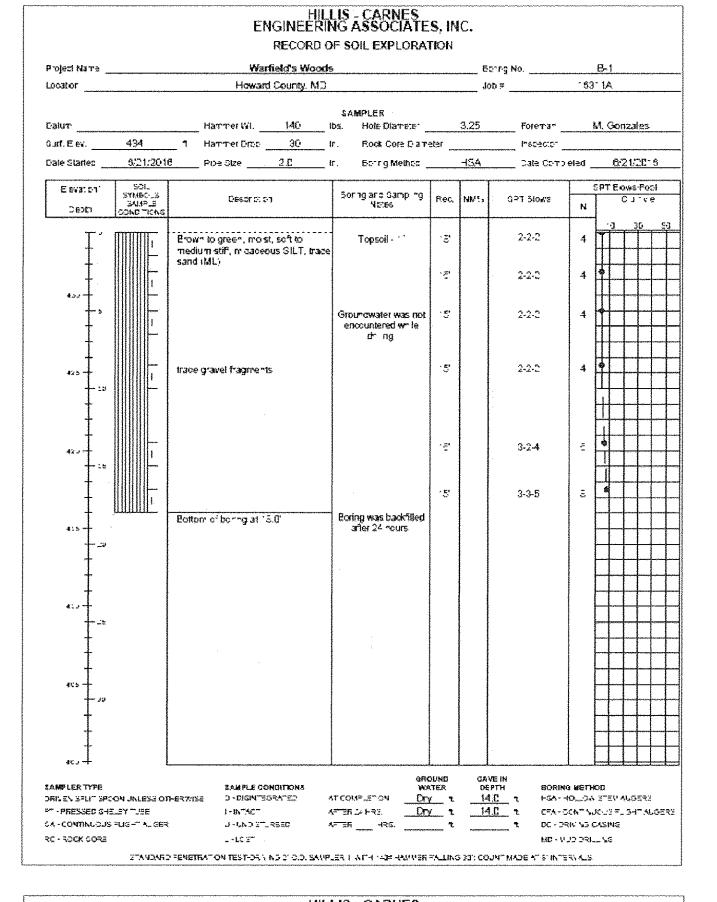
#### STORMWATER MANAGEMENT NOTES

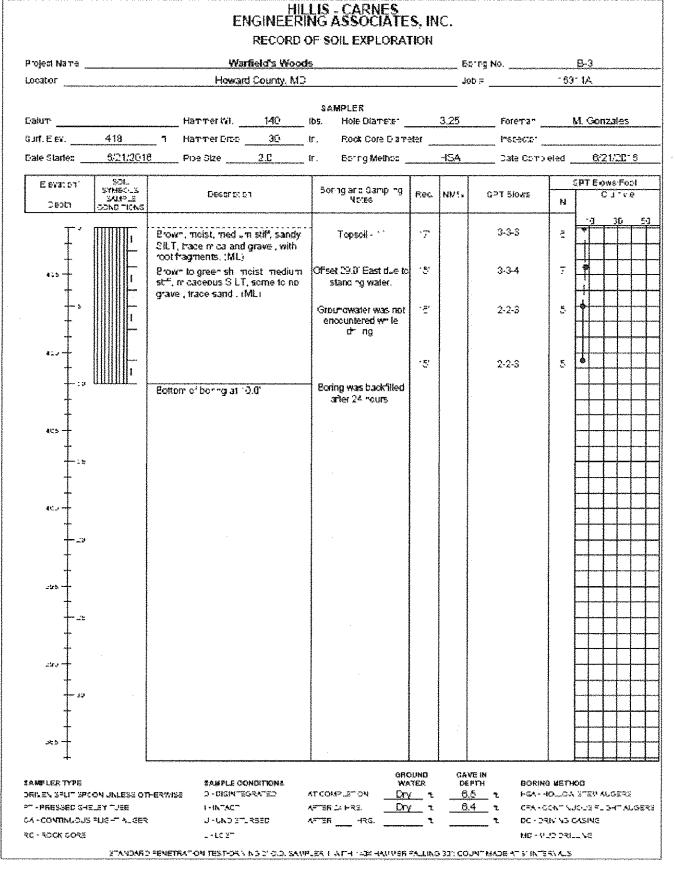
1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.

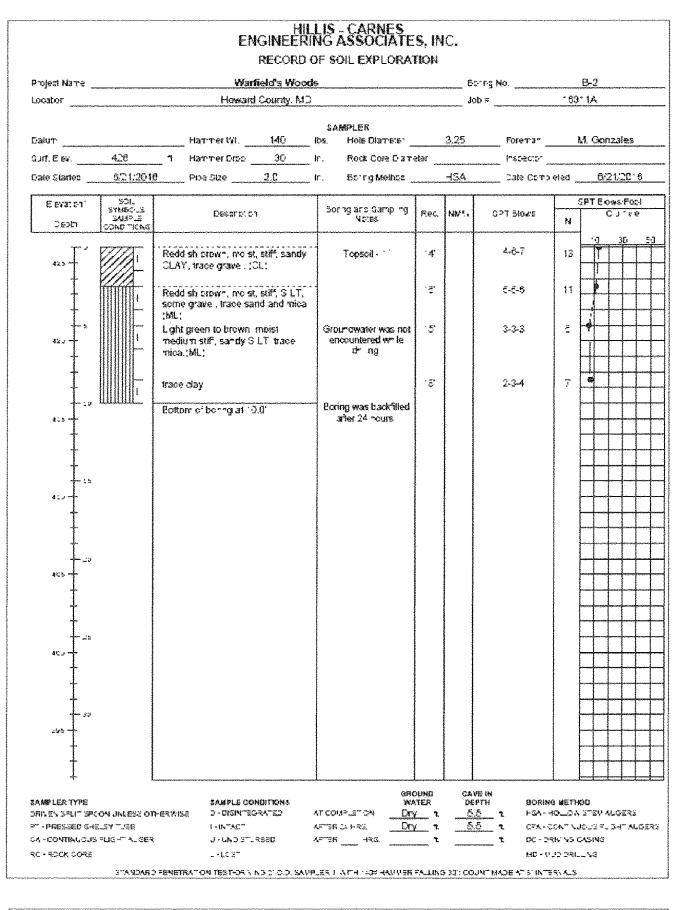
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL
BE 1.000 SQ. FT. OR LESS.

3. DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 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.







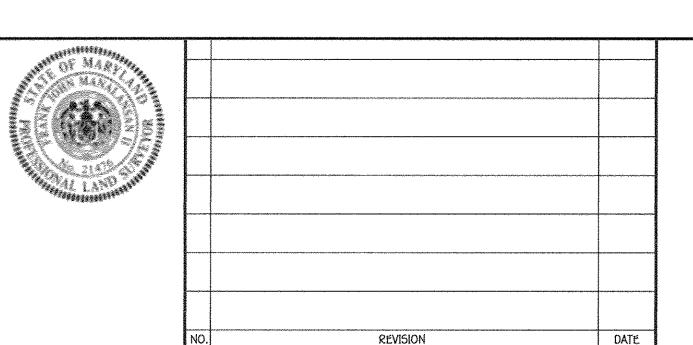
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# PROFESSIONAL CERTIFICATION HEREN CERTIFY THAT THESE DOCUMENTS WERE DOED!

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:







# OWNER/DEVELOPER WARFIELD WOODS LLC C/O KENNARD WARFIELD JR 14451 TRIADELPHIA 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

CHIEF, DEVELOPMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DIRECTOR DEPARTMENT OF PLANNING AND ZONING

DIRECTOR DEPARTMENT OF PLANNING AND ZONING

DATE

SUBDIVISION

WAVERLY GROVE

PLAT NO. BLOCK NO. ZONE TAX/ZONE ELEC, DIST. CENSUS TR.

R-5A-8

24419-24421

STORMWATER MANAGEMENT NOTES AND DETAILS

# WAVERLY GROVE LOTS 1 THRU 30

5CALE: 1" = 30"

PREVIOUS HOWARD COUNTY FILE NUMBERS: 50P-86-88, 5-94-07, P-95-07, F-95-174, ECP-14-072, 5P-16-001, WP-16-069, WP-18-023, AND F-16-101 ZONED: R-5A-8

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