ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF INSPECTION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, BUREAU OF UTILITIES AT (410) 313-4900 AT LEAST FIVE WORKING DAYS PRIOR TO STARTING ANY EXCAVATION WORK.
- LOCATION: SEE VICINITY MAP IN THE UPPER RIGHT HAND CORNER OF THIS SHEET

PROJECT BACKGROUND:

ZONING: R-A-15 PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING
THIS PLAN IS GRANDFATHERED TO THE 1/28/06 ZONING REGULATIONS, HOWEVER THE PROJECT IS UTILIZING THE 10/6/2013 ZONING REGULATIONS

AREA OF BUILDABLE LOTS FOR THIS SITE DEVELOPMENT PLAN: 3.24± AC.

FOR OTHER SUBMISSIONS RELATED TO THIS SITE, SEE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS. 5 04-09, WP 04-105, F 06-019, WP 06-045, ZRA-65, F 09-088, P-10-004, F-10-048. SDP-12-45, WP-16-138, F-11-026, F-13-089, F-16-128, WP-04-105,

- THE CEMETERY INVENTORY MAP DOES NOT SHOW ANY CEMETERIES WITHIN THE PROJECT LIMITS (PHASE 8).
- THE SCENIC ROADS MAP DOES NOT INDICATE ANY SCENIC ROADS IN THE VICINITY
- THE HISTORIC SITES MAP DOES NOT SHOW ANY HISTORICAL SITES WITHIN THE PROJECT LIMITS (PHASE 8).
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY BENCHMARKS 3IGA AND 37A4 WERE USED FOR THIS PROJECT.
- . BOUNDARY INFORMATION IS FROM BOUNDARY SURVEYS BY GUTSCHICK, LITTLE, AND WEBER, P.A., DATED MAY, 2003.
- SOILS DATA WAS TAKEN FROM THE SOIL SURVEY OF HOWARD COUNTY, MARYLAND ISSUED MARCH, 2008.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL TOPOGRAPHY PREPARED BY MCKENZIE-SNYDER DURING MARCH, 2003 AND PREVIOUS SHIPLEY'S GRANT DEVELOPMENT
- THE WETLAND DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY BY EXPLORATION RESEARCH, INC. JURISDICTIONAL DETERMINATION AND VERIFICATION OF DELINEATION OF WATERS OF THE U.S. BY U.S. ARMY CORPS OF ENGINEERS ON 3/28/03. THE STUDY WAS APPROVED WITH 5-04-09 ON 2/15/05. THERE ARE NO STREAMS OR
- THE 100-YEAR FLOODPLAIN STUDY FOR THIS PROJECT WAS PREPARED BY GUTSCHICK, LITTLE, & WEBER DATED JUNE 2006, AND WAS APPROVED IN SEPTEMBER 2006 AS PART OF F-06-019. THERE IS NO FLOODPLAIN WITH THE LIMITS OF PHASE 8,
- A NOISE STUDY WAS PREPARED BY ROBERT H. VOGEL ENGINEERING, INC. DATED JULY 9, 2015. THE STUDY WAS APPROVED ON 8/24/2015. THE NOISE IS BEING MITIGATED BY 6' NOISE FENCES TO REDUCE BACKYARD NOISE LEVELS, THE REMAINDER IS MITIGATED BY ARCHITECTURAL MATERIALS OF THE HOMES THEMSELVES. THE 65DBA NOISE CONTOUR LINE DRAWN ON THIS SUBDIVISION PLAN IS ADVISORY AS REQUIRED BY THE HOWARD COUNTY DESIGN MANUAL, CHAPTER 5, REVISED FEBRUARY, 1992 AND CANNOT BE CONSIDERED TO EXACTLY LOCATE THE 65 DBA NOISE EXPOSURE, THE 65DBA NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND
- A TRAFFIC STUDY WAS PREPARED BY THE TRAFFIC GROUP IN A REPORT DATED JANUARY 26, 2004 AND WAS APPROVED ON FEBRUARY 15, 2005 WITH 5-04-09. ALL OF THE REQUIRED OFF SITE IMPROVEMENTS HAVE BEEN COMPLETED WITH PREVIOUS PHASES. A LETTER FROM THE TRAFFIC GROUP DATED JANUARY 23, 2014 STATES THAT THE TOWNHOUSE UNITS SHOWN IN PHASE T AND 8 ON THE FORMER CHAPEL AND OFFICE PARCELS GENERATE LESS TRAFFIC THEN ASSUMED IN THE ORIGINAL TRAFFIC STUDY. THIS LETTER WAS APPROVED ON JANUARY 20, 2015 WITH 5-15-003.
- THE GEO-TECHNICAL REPORT WAS PROVIDED BY SPECIALIZED ENGINEERING DATED JULY 6, 2015.
- 18. EXISTING UTILITIES WERE TAKEN FROM AVAILABLE HOWARD COUNTY RECORDS AND PREVIOUS SHIPLEY'S GRANT DEVELOPMENT PLANS.
- 19. THE PROJECT IS WITHIN THE METROPOLITAN DISTRICT.
- 20. PUBLIC WATER AND SEWER SHALL BE UTILIZED (AS PROVIDED BY W#S CONTRACT Nos. 14-4513-D # 44-4924-D) AND THE WATER METERS IN OUTSIDE VAULTS FOR THE SFA AND INSIDE FOR THE COMMUNITY BUILDING.
- 21. ALL ROADS LABELED AS "PUBLIC" ARE PUBLICLY MAINTAINED ONCE THEY ARE DEDICATED. ALL ROADS LABELED AS "PRIVATE" ARE PRIVATELY MAINTAINED BY
- 22. THE FOREST CONSERVATION REQUIREMENT FOR THIS SDP IS PROVIDED BY F-06-014 (P.N. 18735-18738) AND F-16-116 (P.N. 24.269-24274). FOREST CONSERVATION EASEMENTS HAVE BEEN ESTABLISH TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 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
- 23. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE GRADING PERMIT APPLICATIONS AS NOTED ON THE GRADING PERMIT CHART ON THIS SHEET, SEE SHEETS 6 & 7 FOR MORE INFORMATION. THE TOTAL SURETY IS IN THE AMOUNT OF \$26,940.00. THE LANDSCAPE PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
- 24. A PRE-SUBMISSION COMMUNITY MEETING WAS HELD FOR THIS PROJECT ON 11/26/2013 IN COMPLIANCE WITH SECTION 16.128 OF THE REGULATIONS
- STORMWATER MANAGEMENT FOR THIS THIS PHASE IS PROVIDED BY EXISTING FACILITY 'D' LOCATED ON OPEN SPACE LOT D-1. FACILITY 'D' IS A PERMANENT POOL, WET FACILITY TYPE P-2 PER MDE 2000. THIS FACILITY PROVIDES WQ, CPV, AND SAFE PASSAGE OF THE 100 YEAR STORM. FACILITY 'D' WAS DESIGNED AND APPROVED UNDER F-09-88. FACILITY 'D' IS JOINTLY MAINTAINED BY HOWARD COUNTY AND THE HOA.
- STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II. A STORMWATER MANAGEMENT ADMINISTRATIVE WAIVER DATED JUNE 6, 2012 DETERMINED THAT THE PROJECT MET THE CRITERIA OUTLINED IN THE MDE STORMWATER MANAGEMENT REGULATIONS GUIDELINES FOR IMPLEMENTATION FOR ACCEPTANCE OF THE 2000 DESIGN CRITERIA. STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED BY FACILITY 'D'. FACILITY D WAS PRELIMINARILY APPROVED WITH 5-04-09 ON 2/15/05, AND RECEIVED FINAL APPROVAL WITH F-09-88 ON 10/23/09, FACILITY D IS CURRENTLY FUNCTIONING AS A BASIN FOR TEMPORARY STORMWATER MANAGEMENT AND ALL CONSTRUCTION FOR FACILITY D WILL BE COMPLETED PRIOR TO MAY 4, 2017.
- 27. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY
- A) WIDTH 12' (16' SERVING MORE THAN ONE RESIDENCE
- B) SURFACE 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (I-I 1/2" MIN)
- C) GEOMETRY MAX. 15% GRADE, MAX 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS D) STRUCTURE (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING) E) DRAINAGE ELEMENTS - SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN I FOOT DEPTH OVER DRIVEWAY SURFACE
- F) MAINTENANCE SUFFICIENT TO INSURE ALL WEATHER USE
- 28. ALL OUTSIDE LIGHTING SHALL COMPLY WITH ZONING REGULATION SECTION 134 WHICH REQUIRES LIGHTS TO BE INSTALLED TO DIRECT/REFLECT LIGHT DOWNWARDS AND INMARDS ON SITE AWAY FROM ALL ADJOINING PUBLIC STREETS AND RESIDENTIAL AREAS. NO OUTDOOR PARKING LOT LIGHTING IS
- 29. TRASH FOR THIS SITE SHALL BE COLLECTED BY A PRIVATE REFUSE COLLECTION COMPANY.
- 30. ALL BUILDING FOUNDATIONS MUST BE BRICK POINTED UNLESS NOTED OTHERWISE.
- 31. ANY DAMAGE TO THE ADJACENT COUNTY OWNED RIGHT-OF-WAY AND PROPERTY SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 32. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE REQUIRED WETLANDS, STREAM(S) OR THEIR BUFFERS, FOREST CONSERVATION EASEMENT AREAS AND 100 YEAR FLOODPLAIN.
- 33. BAY WINDOWS, WINDOW WELLS, CHIMNEYS, HEATING OR AIR CONDITIONING UNITS, BALCONIES, ORIELS, VESTIBULES AND EXTERIOR STAIRWAYS IF NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NO MORE THAN 4 FEET INTO ANY REQUIRED SETBACK AREA IN ACCORDANCE WITH SECTION 128.A.I OF THE ZONING
- 34. PER ZONING SECTION 112.0.6, 10% OF THE TOTAL NUMBER OF UNITS, 7 UNITS, MUST BE DEDICATED AS MIHU'S. THE MIHU LOTS WILL BE LOTS D-162, D-168, D-171, D-176, D-167, D-193 & D-194. SEE THE UNIT TABULATION ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 35. ALL UNITS HAVE 2 CAR GARAGES. ALL UNITS WITH DRIVEWAYS LESS THAN 18' IN LENGTH FROM THE BUILDING EDGE TO THE SIDEWALK OR CURB MUST ONLY USE THEIR GARAGE FOR THE TWO REQUIRED PARKING SPACES.
- 36. SHIPLEY'S GRANT PHASE 8 IS GRANDFATHERED TO THE EXCEPTION FOR TRADITIONAL RESIDENTIAL NEIGHBORHOOD DEVELOPMENT NOTED IN SECTION 133.C.4 OF THE 2004 ZONING REGULATIONS WHICH ALLOWS DRIVEWAYS TO BE LESS THAN 9 FEET IN LENGTH FROM THE GARAGE TO THE FLOWLINE OF THE CURB.
- 37. ON MAY 12, 2016 A DESIGN MANUAL WAIVER REQUESTING A WAIVER OF SECTION 5.4 CROSSINGS AND CLEARANCES, PARAGRAPH B.5 OF THE HOWARD COUNTY WATER AND SEMER DESIGN MANUAL, VOLUME II, REQUIRING A MINIMUM IO FOOT HORIZONTAL CLEARANCE BETWEEN ANY PERMANENT STRUCTURE AND THE EDGE OF A PUBLIC UTILITY EASEMENT WAS APPROVED WITH THE FOLLOWING CONDITIONS: REAR DECKS SHALL NOT BE PERMITTED FOR LOTS D-161 THRU D-171 AND LOTS D-186 THRU D-196. ANY PROPOSED FUTURE DECKS FOR LOTS D-178 AND D-179, SHALL BE A MAXIMUM SIZE OF 8 FEET DEEP FROM THE UNIT
- 38, BUILDING CONSTRUCTION MATERIALS MUST BE USED TO REDUCE INTERIOR SOUND TO 45 DBA IN RESIDENTIAL UNITS AS NEEDED WITHIN THE EXISTING 65 DBA NOISE LINE. 39. FOR DRIVEWAY ENTRANCES IN THE PUBLIC RIGHT OF WAY REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME VI, STANDARD DETAIL 6.01.
- 40. BUILDING LENGTH, BUILDINGS EXCEEDING THE 120 FOOT LENGTH LIMIT HAVE BEEN APPROVED BY THE DEPARTMENT OF PLANNING AND ZONING TO SIGNIFICANT BUILDING ARTICULATION IN ACCORDANCE WITH SECTION 112.D.I.e. OF THE ZONING REGULATIONS, SEE BUILDING LENGTH EXHIBIT ON FILE UNDER
- 41. FOR THE RECORDED SHIPLEY'S GRANT COMMUNITY ASSOCIATION COVENANTS SEE LIGTTY F.GTI. SEE SECTION II.I(C) FOR THE BLANKET EASEMENT REGARDING THE REPAIR AND MAINTENANCE OF ALL UTILITIES AND OTHER SHARED FEATURES.

. 31-18 Add Note # 41 to General Notes

DATE

# APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING Date Chief, Development Engineering Division GLWGUTSCHICK LITTLE &WEBER, P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

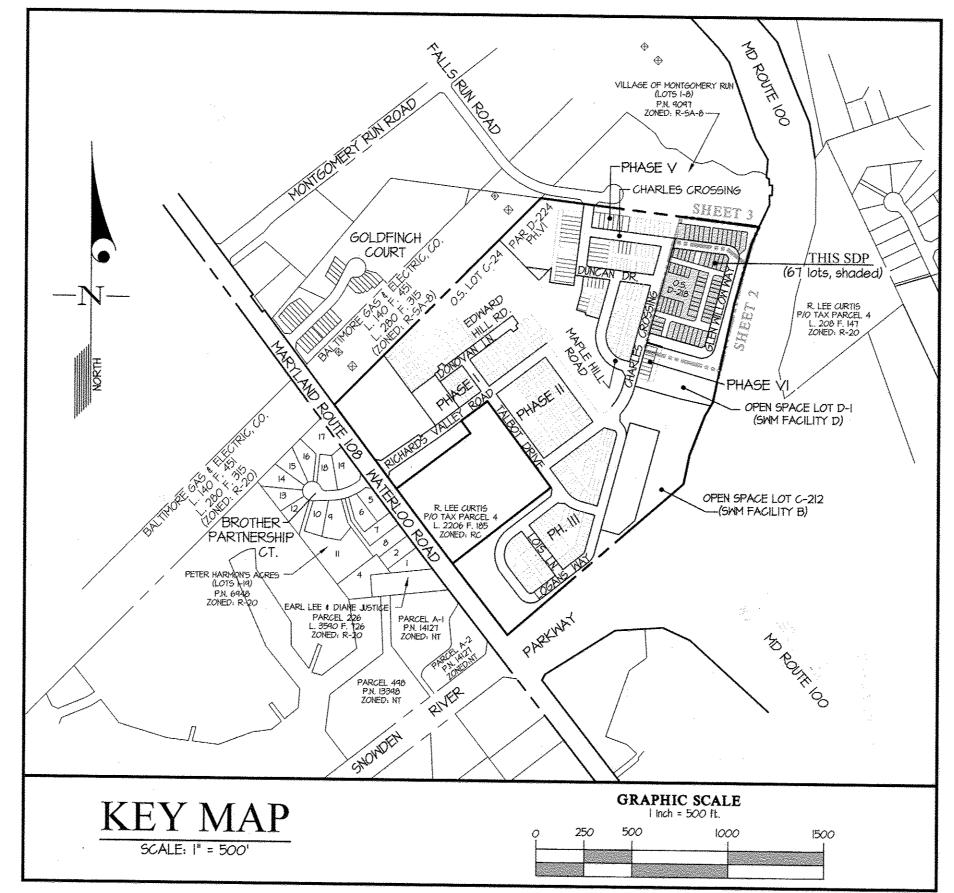
BURTONSVILLE, MARYLAND 20866

:\CADD\DRAMINGS\03006\PHASE VIII\SDP\16021 (01) CS.dwg | DES. dds | DRN. dds | CHK.

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

# HIPIFY'S GR

PHASE VIII - LOTS D-151 thru D-217 and OPEN SPACE LOT D-218



	DEVELOPMENT TRACKI	NG CHAR	T AND SI	TE ANAL)	ISIS FOR	R-A-15 ZON	NE AREAS				
PHASE	PARCEL NUMBER OR HOWARD COUNTY FILE No.	PLAN STATUS	GROSS	100 YR. FLOODPLAIN	NET	MIN. 0/S <sup>1</sup> REQ'D	0/S PROV. <sup>2</sup>	MIN. REC. O/S REQ'D	REC. O/S PROVIDED	MIN. REQ'D. TND. 0/S <sup>4</sup>	TND 0/S PROVIDED
1	F 07-043/SDP-07-047	APPROVED	13.63 AC.	1.36 AC.	12.27 AC.	3.41 AC.	8.26 AC. (60%)			0.68 AC./29,686 S.F.	0.99 AC./43,157 S.F
2	F 07-059/SDP-07-048	APPROVED	5.81 AC.	0.00 AC,	5.81 AC.	1.45 AC.	0.65 AC. (11%)			0.29 AC./12,654 S.F.	· · · · · · · · · · · · · · · · · · ·
3	F 08-006/SDP-10-082	APPROVED	12.94 AC.	0.50 AC.	12.44 AC.	3.24 AC.	6.19 AC. (48%)			0.65 AC./28,183 S.F.	0.85 AC./37,124 S.F
4	F 09-088/SDP-10-082, SDP-10-87	APPROVED	5.77 AC.	0.00 AC.	5.77 AC.	1.44 AC.		26,000 S.F. 3		<del></del>	0.37 AC./16,126 S.F.
5	F 10-048/SDP-12-061	APPROVED	5.50 AC.	0.00 AC.	5.50 AC.	1.38 AC.	0.44 AC. (9%)			0.29 AC./12,567 S.F.	0.15 AC./6,591 S.F.
6	F 11-026/SDP-12-061 & F-16-128/SDP-16-079	APPROVED	4.20 AC.	0.00 AC.	4,20 AC.	1.05 AC.	0.09 AC. (2%)	· · · · · · · · · · · · · · · · · · ·		0.28 AC./11,979 S.F.	0 AC./0 S.F.
	F 14-123/SDP-14-063©	APPROVED	0.75 AC.	0.00 AC.	0.75 AC.	0.19 AC.		9,100 S.F. 5		0.21 AC./9,148 S.F.	0 AC./0 S.F.
8	PARCEL D-2/S-14-003/P-15-002/F-16-116 & THIS SDP	PLANS SUBMITTED	6.60 AC,	0.00 Ac.	6.60 AC.	1.65 AC.				0.04 AC./1,633 S.F.	0 AC./0 S.F.
	AMENITY CREDITS © 8	DUDMITTEL	0.40 No.	U.UU AC.	U.UU AL.	1.05 AC.	1.77 AC. (27%)	46,300 S.F.		0.33 AC./14,375 S.F.	0.57 AC./24,680 S.F
•									45,875 S.F.		
	CUMULAT	IVE TOTAL	55.20 AC,	1.86 AC.	53.34 AC.	13.80 AC.	19.08 AC. (35%)	209,000 S.F.	211.833 S.F.	2.76 AC./120,224 SF	2.93 AC./127,678 S.

- DEVELOPMENT TRACKING CHART AND SITE ANALYSIS NOTES:
  (I.) MINIMUM REQUIRED OPEN SPACE (O/S) IS CALCULATED AS 25% OF THE GROSS AREA.
- PERCENT OPEN SPACE PROVIDED IS OF THE GROSS AREA.
- (3) MINIMUM REQUIRED RECREATION OPEN SPACE (ROS) FOR PHASE I-VI IS CALCULATED AS 400 SF PER UNIT.
- 4) MINIMUM REQUIRED TRADITIONAL NEIGHBORHOOD O/S IS CALCULATED AS 20% OF THE REQUIRED OPEN SPACE.

PREPARED FOR:

BA Waterloo Townhomes, LLC (Lots D—151 thru D—217)

NVR INC.

9720 Patuxent Woods Dr

Columbia, MD 21046

Phone: 410-379-5956

Attn.: Robert Grothmann

- MINIMUM REQUIRED RECREATION OPEN SPACE FOR PHASE VII (PER THE 2013 COMPREHENSIVE ZONING PLAN WHICH REQUIRES AN ADDITIONAL 300 SF ROS PER LOT FOR LOTS WITHOUT A 15 FT
- MINIMUM REQUIRED RECREATION OPEN SPACE FOR PHASE VIII (PER THE 2013 COMPREHENSIVE ZONING REGULATIONS EFFECTIVE 10/06/13 WHICH REQUIRES AN ADDITIONAL 300 SF ROS PER LOTS WHICH DO NOT HAVE A 15 FT USABLE YARD): 65 LOTS x 100 SF = 45,500 SF + 2 LOTS x 400 SF = 800 SF FOR A TOTAL OF 46,300 SF. SEE REQUIRED RECREATION OPEN SPACE CALCULATIONS IN SITE ANALYSIS ABOVE. THE 2 LOTS WITH A 15' USABLE YARD ARE SHOWN ON SHEET 3 WITH AN ASTERISK (\*) NEXT TO THE LOT NUMBER. THE OTHER 65 DON'T HAVE A SECTION 112E USEABLE REAR YARD (assuming all front load garage lots will get an optional rear extension).
- 13520 SF OF RECREATION OPEN SPACE HAS BEEN INCLUDED USING AMENITY FEATURE AREA CREDITS APPROVED BY DPZ (PER THE 6/15/2012 POLICY MEMO), INCLUDING 3,960 SF FOR A COMMUNITY CENTER, 3,960 SF FOR A COMMUNITY POOL, 2,000 SF FOR A GAZEBO, 2000SF FOR A TOT LOT, AND 1,600 SF FOR BENCHES AS OUTLINED IN A LETTER TO DPZ DATED 1/17/2013. CREDITS FOR THE COMMUNITY CENTER AND POOL MAY BE INCREASED IF A REGULATION OR A DPZ POLICY INCREASES THE VALUE FOR THESE MAJOR RECREATIONAL FACILITIES. IF A CREDIT VALUE IS INCREASED, A REDLINE TO THIS PLAN WILL BE REQUIRED TO UPDATE THE CHART AND THE CREDIT VALUES.
- 32,355 SF OF RECREATION OPEN SPACE HAS BEEN INCLUDED USING AMENITY FEATURE AREA CREDITS APPROVED BY DPZ (PER THE 6/15/2012 POLICY MEMO), INCLUDING 5,520 SF FOR A COMMUNITY CENTER, 5,520 SF FOR A COMMUNITY POOL (4,140 SF EACH FOR THE POOL AND COMMUNITY CENTER IN PHASE & AND 180 SF EACH WAS ADDED FOR THE COMMUNITY CENTER AND POOL ON LOT C-135 FOR THE 18 LOTS IN PHASES 1 & 8 THAT WERE NOT INCLUDED IN THE ORIGINAL CREDIT), AND 21,315 SF FOR ASPHALT PATHWAYS AS OUTLINED IN A LETTER TO DPZ DATED 10/1/2014 CREDITS FOR THE COMMUNITY CENTER AND POOL MAY BE INCREASED IF A REGULATION OR A DPZ POLICY INCREASES THE VALUE FOR THESE MAJOR RECREATIONAL FACILITIES. IF A CREDIT VALUE IS INCREASED, A REDLINE TO THIS PLAN WILL BE REQUIRED TO UPDATE THE CHART AND THE CREDIT VALUES.

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE

AM A DULY LICENSED PROFESSIONAL ENGINEER

EXPIRATION DATE: MAY 26, 2018

LICENSE NO. 12975

PREPARED OR APPROVED BY ME, AND THAT I

UNDER THE LAWS OF THE STATE OF MARYLAND,

(9) INCLUDES ADDITIONAL THO O/S ADDED BY REDLINE TO SDP-07-047 IN JANUARY 2013.

c/o Bozzuto Homes, Inc.

6406 lvy Lane, Suite 700

Greenbelt, MD 20770

301-220-0100

BY APP'R

Attn.: Chris Block

(i) INCLUDES ADDITIONAL THO 0/5 ADDED BY REDLINE TO SDP-10-082 IN JANUARY 2013.

# SITE DEVELOPMENT PLAN

### LOT DEVELOPMENT DATA . GENERAL SITE ANALYSIS DATA

- A. PRESENT ZONING: R-A-15 B. PROPOSED USE OF SITE: 67 TOWNHOUSE (SFA) UNITS and COMMUNITY BUILDING
- PUBLIC WATER AND PRIVATE SEWER TO BE UTILIZED (CONTR. Nos. 14-4513-D 4 44-4924-D). ). PARKING REQUIRED PER ZONING AND DMV III (table 2.11):
- POOL PARKING CALCULATIONS:
  TOTAL NUMBER OF PERSONS PERMITTED IN THE POOL AT ONE TIME BY THE HEALTH DEPARTMENT = 1800 SF x 1 PERSON / 12 SF = 150 PEOPLE (\*SEE NOTE RIGHT) POOL PARKING REQUIRED @ I SPACE / IO PERSONS PERMITTED IN THE POOL AT ONE TIME BY THE HEALTH DEPARTMENT = 15 SPACES
- PARKING REQUIRED A. SFA UNITS : 134 PARKING SPACES (61 UNITS x 2.0)
- B. GUEST PARKING: 34 PARKING SPACES (61 UNITS x 0.5 (per F-16-116)) POOL PARKING: + 15 PARKING SPACES (SEE POOL PARKING CALCULATIONS ABOVE)
  TOTAL REQUIRED FOR GUEST & POOL = 49 PARKINGS SPACES

A. SFA UNITS : 134 GARAGE PARKING SPACES (2 spaces in each unit/garage x 67 units) + 66 DRIVEWAY PARKING SPACES (2 spaces x 33 units widniveways that are atleast 18' deep from back of walk or curb flow line) (THOSE w/atleast 18' D/Ms MAY USE THESE SPACES AS GUEST PARKING)
TOTAL PROPOSED FOR SFA UNITS = 200 PARKING SPACES

SHEET INDEX COVER SHEET

LANDSCAPE PLAN

LANDSCAPE PLAN

SITE DEVELOPMENT PLAN SITE DEVELOPMENT PLAN SEDIMENT CONTROL PLAN

SEDIMENT CONTROL NOTES and DETAILS

THE POOL SIZE IS 1800 SF. A MAXIMUM OF 5' DEEP, AND CAN ACCOMMODATE A

MAXIMUM OF 150 PEOPLE AS CONFIRMED

NOTE, THE COMMUNITY BUILDING IS TO USED

PRIMARILY AS A POOL FACILITY AND DOES

BY AN EMAIL FROM THE HEALTH

NOT REQUIRE ADDITIONAL PARKING

DEPARTMENT ON OCT. 22-23, 2014.

- B. GUEST & POOL: 43 PARALLEL SPACES ON GLEN WILLOW WAY + 7 PARKING SPACES ON SMEET CORN DRIVE + 3 PARKING SPACES ON HIDDEN GARDEN LANE TOTAL PROPOSED FOR GUEST & POOL = 53 PARKING SPACES
- E. OPEN SPACE: SEE DEVELOPMENT TRACKING CHART ON THIS SHEET
- A. AREA OF BUILDABLE LOTS FOR THIS SUBMISSION: 3.241 AC. (PLAT No. 24269 24-274)
- B. AREA OF THIS PLAN SUBMISSION: 3.581 ACRES (L.O.D.)
  C. AREA OF DISTURBANCE BY THIS SDP: 3.581 ACRES
- 3. LOT DESIGNATION: DEVELOPMENT TYPE MAX BUILDIN

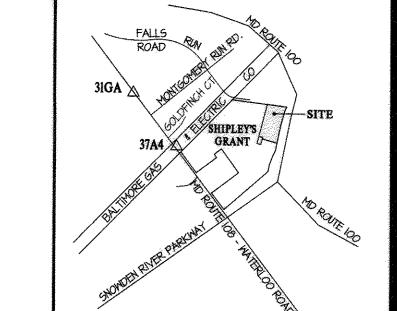
DEVELOPMENT ITHE	MAX, BUILDING HT.	MINIMUM LOT SIZE	MIN. LOT WIDTH AT FROM BI
PRINCIPAL STRUCTURES	55'	N/A	NA
ACCESSORY STRUCTURES	15'	N/A	NA

PER II2.D.4 (R-A-I5) AND I28.6.4 (TRADITIONAL RESIDENTIAL	SETBACK
SETBACK TYPE	SINGLE FAMIL
FROM EXTERNAL ARTERIAL OR MAJOR COLLECTOR PUBLIC STREET RIGHT OF WAY	
(i) STRUCTURES (a) FRONT OR SIDE	30'
(b) REAR	50'
(2) USES	30'
FROM OTHER EXTERNAL PUBLIC STREET RIGHT OF WAY	
(I) STRUCTURES	
(b) SFA FRONT OR SIDE	20'
(c) REAR(2) USES	40'
	20'
FROM INTERNAL PUBLIC STREET RIGHT OF WAY FRONT OR SIDE	0'
FROM INTERNAL ALLEY RIGHT OF WAY	
SIDE OR REAR	Ο,
FROM VICINAL PROPERTIES - FOR ALL STRUCTURES AND USES IN A SFA DEVELOPMENT PROJECTS	
I. FROM RC, RR, R-20, R-12, R-ED or R-SC DISTRICT OR A SINGLE FAMILY AREA OF A PGCC, NT OR MXD DISTRICT	
(a) SFA	75'
(c) OTHER STRUCTURE OR USES	50'
2. FROM R-A-15 AND OTHER ZONING DISTRICT	
(b) SFA	25'
(c) OTHER STRUCTURE OR USES	20'
BUILDING TO BUILDING	**************************************
FACE TO FACE	30'
FACE TO SIDE/ REAR TO SIDE	30'
SIDE TO SIDE	5
REAR TO REAR ACROSS AN ALLEY	60'
DEAD TO EACE	30'

REAR TO FACE.....

ELECTION DISTRICT No. 1

LOT GROUPS	DISTURBED AREA (Ac.)	LANDSCAPE SURETY AMOUNT	LANDSCAPI INSPECTION FEES PAID
SFA LOTS D-151 thru D-217	3.J5±	\$25,740.00	\$193,05
0.5. LOT D-218 (Community Bldg.)	0.43±	\$1,200.00	\$100.00
TOTAL	3.58±	\$26,940.00	\$293.05



VICINITY MAP SCALE: 1" = 2000

### **Howard County Control Stations**

31GA STANDARD DISC ON CONCRETE MONUMENT N 564,925.75, E 1367,067.65 ELEV. = 511.65

37A4 STANDARD DISC ON CONCRETE MONUMENT N 563,835.91, E 1367,971.65 ELEV. = 437.26

ADC MAP PAGE: 28 GRID A-8

	•			UN.	IT TABULA	ION				
		Units Permitted		PROPOSED R-A-15 UNITS						
SE No.	NEI (1	AX. UNIT DENSITY 5 Units / Net Ac.)	TOTAL UNITS ON-SITE	REQUIRED MIHU's @ 10%	MARKET RATE SFA UNITS	MIHU ON-SITE	OFF-SITE	CONDOMINIUM/ APARTMENT UNITS	PROPOSED UNIT DENSITY	
SE I	12.27 AC.	184	62	6	54	8	0	0	5.1 UNITS/NET AC.	
SE II	5.81 AC.	87	66 <sup>2</sup>	6	66 <sup>2</sup>	0	8	0	10.7 (11.4) UNITS/NET A	
SE III	12.44 AC.	186	69 <sup>2</sup>	7	69 <sup>2</sup>	0	-6	0	5.2 (5.5) UNITS/NET AC.	
SE IV	5.77 AC.	86	57 <sup>2</sup>	7.	17	0	-6	40.2	11.3 (9.9) UNITS/ NET A	
SE V	5.50 AC.	82	59	6	55	4	4	0	10.5 UNITS/ NET AC.	
SE VI	4.20 AC.	63	714:5	7	49	2	2	2045	19.3 UNITS/ NET AC.	
A	0.75 AC.	11	13	1	12	1	0	0	17.3 UNITS/ NET AC.	
	6.60 AC.	98	674	7	61	6	0	ő	10.2 UNITS/ NET AC.	
TOTAL	53.34 AC.	797	464	47	383	21	26		8.7 UNITS/NET AC.	

- D-127, D-128, D-162, D-168, D-171, D-187, D-193 & D-194) AND 26 ARE TO BE PROVIDED OFF-SITE.
- 2. AFTER THE TRANSFER OF 8 ALLOCATION UNITS FROM THE PHASE IV APARTMENTS TO 8 SFA UNITS IN PHASES II AND III (each with 4 additional SFA units). THE 8 ADDITIONAL SFA LOTS IN PHASE II AND III ARE CREATED BY PLAT Nos. 21038-41. 3. THE PHASE IV APARTMENTS ARE ON SDP-10-087.
- 4. 2 UNITS WERE TRANSFERRED FROM PHASE 6 (CONDO UNITS) TO PHASE 8 WITH THE SUBMISSION OF THE PHASE 8 FINAL PLANS ON 5/16/2016
- IO UNITS WERE FORFEITED WITH THE APPROVAL OF SDP-16-079 WHEN THE MULIT FAMILY CONDO UNITS IN PHASE 6 WERE REVISED TO SINGLE FAMILY ATTACHED CONDO UNITS. AS A RESULT OF FORFEITING IO UNITS, THE TOTAL NUMBER OF MIHUS REQUIRED HAS BEEN REDUCED BY I

		1	ADDR	ESS CHART			
LOT No.	STREET ADDRESS	LOT No.		STREET ADDRESS	LOT No.		STREET ADDRESS
D-151	5970 CHARLES CROSSING	D-175	5985	GLEN WILLOW WAY	D-199	5921	GLEN WILLOW WAY
D-l52	5972 CHARLES CROSSING	D-176	5983	GLEN WILLOW WAY	D-200	5919	GLEN WILLOW WAY
D-153	5974 CHARLES CROSSING	D-177	5981	GLEN WILLOW WAY	D-201	5917	GLEN WILLOW WAY
D-154	5976 CHARLES CROSSING	D-178	5979	GLEN WILLOW WAY	D-202	5915	GLEN WILLOW WAY
D-155	5901 SWEET GORN DRIVE	D-179	5977	GLEN WILLOW WAY	D-203	5913	GLEN WILLOW WAY
D-156	5903 SMEET CORN DRIVE	D-180	5971	GLEN WILLOW WAY	D-204	5911	GLEN WILLOW WAY
D-157	5905 SMEET CORN DRIVE	D-181	5969	GLEN WILLOW WAY	D-205	5984	GLEN WILLOW WAY
D-158	5907 SWEET GORN DRIVE	D-182	5967	GLEN WILLOW WAY	D-206	5982	GLEN WILLOW WAY
D-159	5909 SWEET CORN DRIVE	D-183	5965	GLEN WILLOW WAY	D-207	5980	GLEN WILLOW WAY
D-160	5911 SWEET CORN DRIVE	D-184	5963	GLEN WILLOW WAY	D-208	5978	GLEN WILLOW WAY
D-161	6003 PRAIRIE LANDING WAY	D-185	5961	GLEN WILLOW WAY	D-204	5976	GLEN WILLOW WAY
D-162	6005 PRAIRIE LANDING WAY	D-186	5953	GLEN WILLOW WAY	D-210	5974	GLEN HILLOW WAY
D-163	6007 PRAIRIE LANDING WAY	D-187	5951	GLEN WILLOW WAY	D-2ll	5970	GLEN MILLOW WAY
D-164	6009 PRAIRIE LANDING WAY	D-188	5949	GLEN WILLOW WAY	D-2l2	5968	GLEN WILLOW WAY
D-165	6011 PRAIRIE LANDING WAY	D-189	5947	GLEN WILLOW WAY	D-2l3	5966	GLEN WILLOW WAY
D-166	6015 PRAIRIE LANDING WAY	D-190	5945	GLEN WILLOW WAY	D-2 4	5964	GLEN WILLOW WAY
D-167	6017 PRAIRIE LANDING WAY	D-191	5941	GLEN WILLOW WAY	D-215	5962	GLEN WILLOW WAY
D-168	6019 PRAIRIE LANDING WAY	D-192	5939	GLEN WILLOW WAY	D-2l6	5960	GLEN MILLOW MAY
D-169	602I PRAIRIE LANDING WAY	D-193	5937	GLEN WILLOW WAY	D-2l7	5958	GLEN WILLOW WAY
D-170	5910 HIDDEN GARDEN LANE	D-194	5935	GLEN WILLOW WAY			
D-171	5908 HIDDEN GARDEN LANE	D-145	5933	GLEN WILLOW WAY			
D-172	5906 HIDDEN GARDEN LANE	D-196	5931	GLEN WILLOW WAY			
D-173	5904 HIDDEN GARDEN LANE	D-197	5925	GLEN WILLOW WAY		····	
D-174	5902 HIDDEN GARDEN LANE	D-198	5923	GLEN WILLOW WAY			
		<b></b>	· · · · · · · · · · · · · · · · · · ·				

		PERMIT INFO	ORMATION	CHART		
SUBDIVISION NAME: SHIPLEY'S GRANT		<i>y</i>		TION/AREA HASE VIII	LOTS 0.5. LOT 218 & D-151 thru D-217	
PLAT No. 242169-24274	<i>ZO</i> NE R-A-15	TAX MAP 37	BLOCK   \$ 2	ELEC, DIST.	CENSUS TRACT 6011.02	
WATER CODE:	D07		SEWER (	* ** *	Manager 1	
			SCALE	ZONING	G. L. W. FILE No.	

SHIPLEY'S GRANT PHASE VIII - LOTS D-151 thru D-217 (SFA RESIDENTIAL USE) and OPEN SPACE LOT D-218 (Community Building)

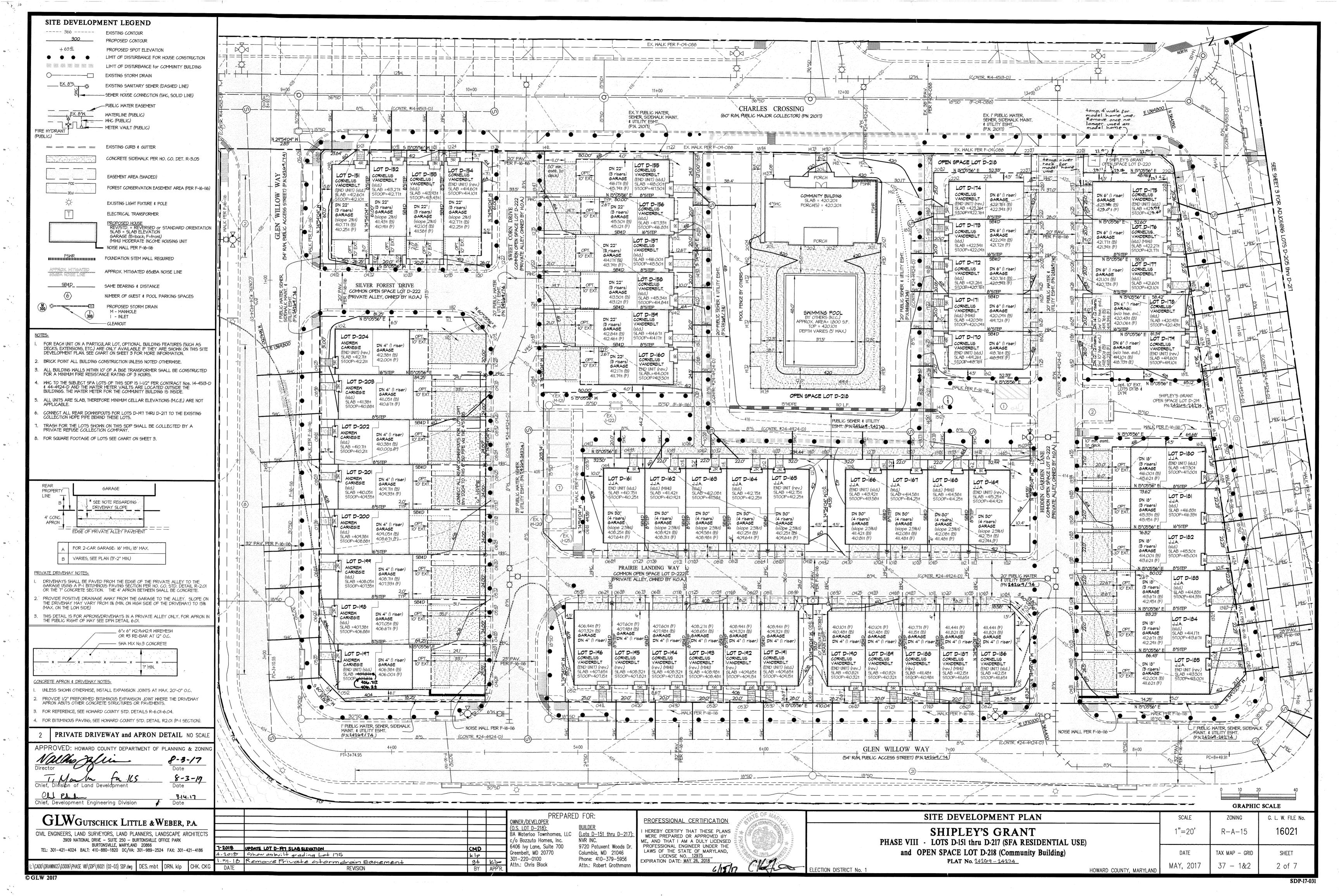
COVER SHEET

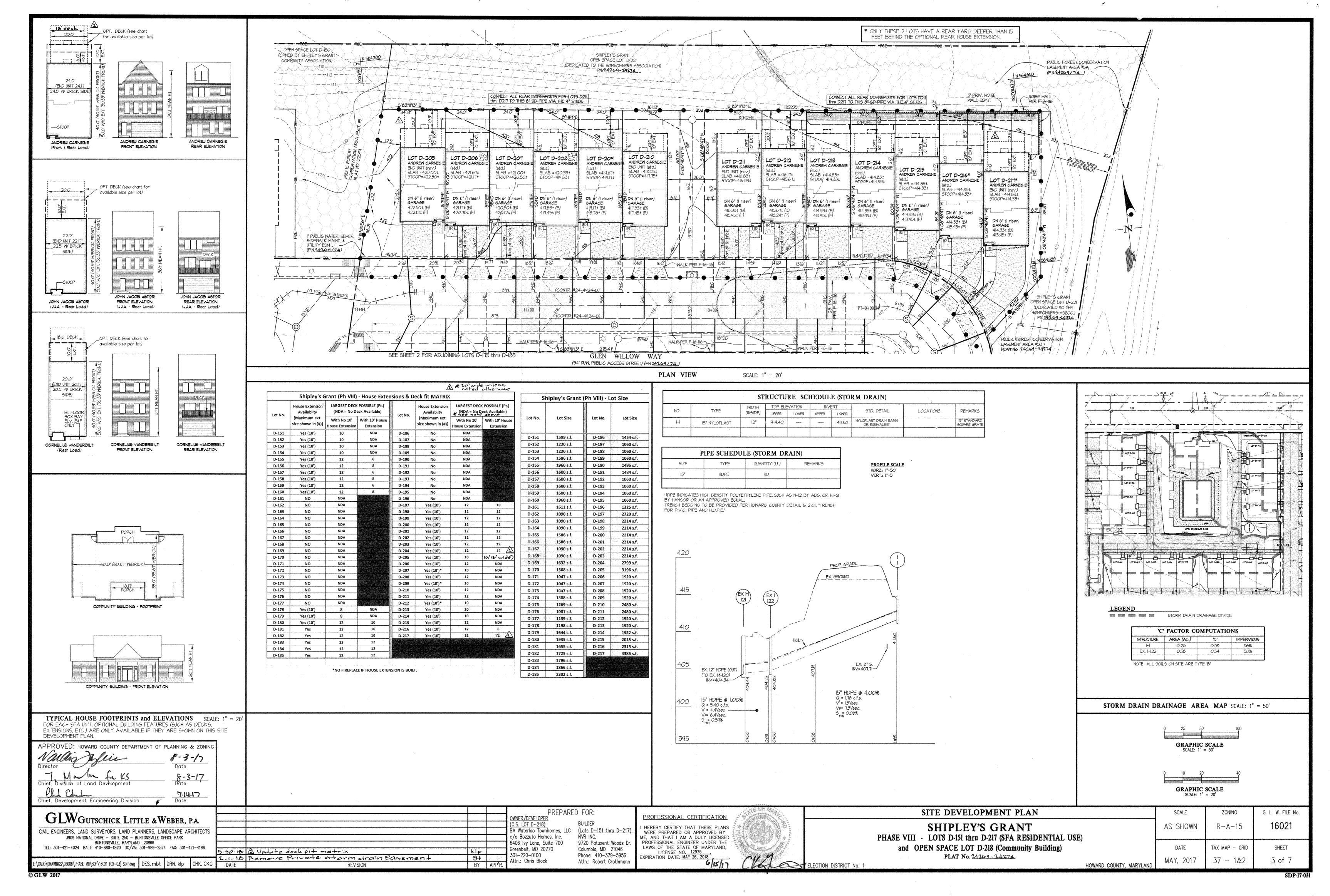
PLAT No. 24269-24274

D-218 6000 Charlen Cronsing

100'

AS SHOWN R-A-15TAX MAP - GRID 37 - 1&2 1 of 7 HOWARD COUNTY, MARYLAND





# SEQUENCE OF CONSTRUCTION APPLY FOR GRADING PERMIT AND SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE COUNTY SEDIMENT CONTROL INSPECTOR (CSCI) OBTAIN GRADING PERMIT FROM THE CSCI AT THE MEETING. Duration: 1/2 day. INSTALL STABILIZED CONSTRUCTION ENTRANCES (SCE), SILT FENCES (SF), SUPER SILT FENCES (SSF) AND ANY ADDITIONAL SEDIMENT CONTROL MEASURES AS DIRECTED BY THE CSCI. (CLEARING AND GRUBBING IS NOT NECESSARY AS SITE WAS MASS GRADED TO INSTALL A REGIONAL SWIM FACILITY) Duration: 1-day. GRADE SITE FOR HOUSE CONSTRUCTION. PROVIDE DUST CONTROL AS NECESSARY. Duration: 2 days. CONSTRUCT HOUSES, UITILITY CONNECTIONS, GARAGES, DRIVEWAYS AND SIDEWALKS. Duration: 3-4 months. AS EACH HOUSE/GARAGE IS COMPLETED, FINAL GRADE THE LOT, INSTALL FENCES AND PLANT MATERIAL AND STABILIZE ALL BARE DIRT AREA WITH PERMANENT SEEDING OR WITH SOD. Duration: 2-days. ONCE AREA DRAINING TO SEDIMENT CONTROL MEASURES HAVE BEEN STABILIZED, OBTAIN PERMISSION FROM THE CSCI TO REMOVE THE SEDIMENT CONTROL ITEMS. Duration: 1/2 day. OBTAIN INSPECTION FOR RELEASE OF SURETY (FOR GRADING AND LANDSCAPING). Duration: 1/2 day OBTAIN USE AND OCCUPANCY PERMIT THEN FINALIZE SETTLEMENT.

NOTES:

I. TEMPORARY SWM IS PROVIDED BY EXISTING FACILITY 'D' ON OPEN SPACE LOT D-I PER F-09-088 (SEE SHEET #I).

2. IF HOUSE CONSTRUCTION IS CONCURRENT WITH ROAD CONSTRUCTION, COORDINATE THE WORK ON THESE PLANS WITH F-16-116. 3. SOILS SHOWN ARE PRE-DEVELOPMENT CONDITION. THE SITE IS MASS GRADED UNDER F-16-116 AND ALL SOILS WILL BE CONSIDERED

SEEDING AND STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR IN COMPLIANCE WITH THE STANDARD SEEDING AND STABILIZATION NOTES WHICHEVER IS MORE RESTRICTIVE.

## SEDIMENT CONTROL LEGEND

-----600 ----- EXISTING CONTOUR LIMIT OF GRADING DISTURBANCE FOR HOUSE CONSTRUCTION SUPER SILT FENCE STABILIZED CONSTRUCTION S.C.E.

SOILS DELINEATION ⊖aG <del>-----</del>soils

	SOILS (or Map Unit	<u>i site)</u> Map Unit Name	Туре	K Fact
. ,,	.6gC	Glenelg loam, 8 to 15 percent slopes	B	0.20
	SaB HOWARD	Sassafras Ioam, 2 to 5 percent slopes COUNTY SOIL MAP NUMBER: 19 - SAVAGE NE	В	0.37

ENTRANCE

BUILDER'S CERTIFICATE (SFA LOTS D-151 thru D-217) "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED. IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING

PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD."

BUILDER'S CERTIFICATE (0.S. LOT D-218, Community Bldg.) "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD."

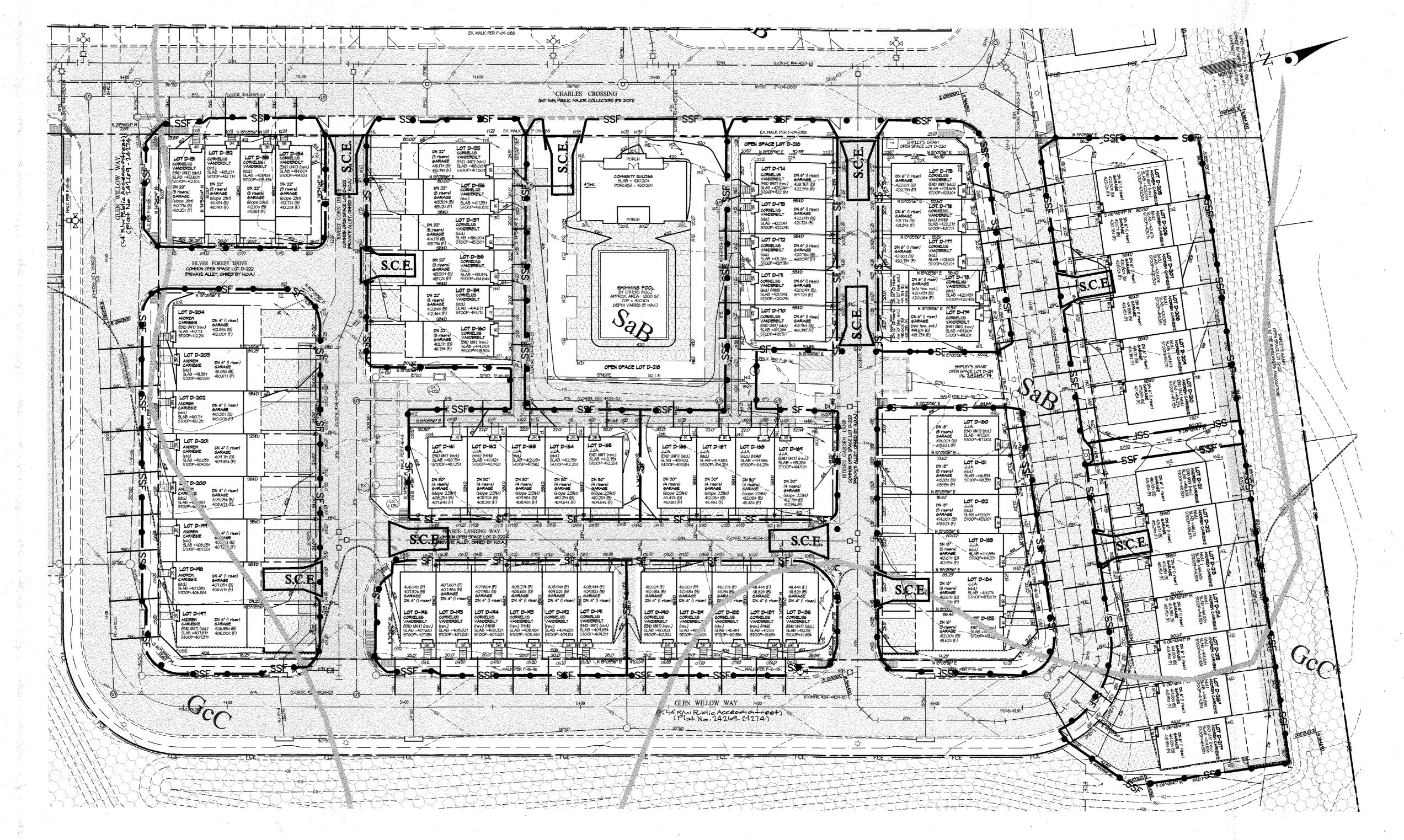
5.12.1

## ENGINEER'S CERTIFICATE

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

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND

Development Engineering Division



NO STOCKPILING PERMITTED ON SITE

# THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY

GRAPHIC SCALE

GLWGUTSCHICK LITT	
T W GUTCOHOV LITT	IE & WEDED DA
O LIV GUISCHICK LIII	LE & WEDER, F.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

:\CADD\DRAWINGS\03006\PHASE VIII\SDP\16021 (04-05) SC.dwg | DES. mbt | DRN. klp | CHK. CKG

OWNER/DEVELOPER (O.S. LOT D-218): BA Waterloo Townhomes, LLC c/o Bozzuto Homes, Inc. 6406 lvy Lane, Suite 700 Greenbelt, MD 20770 301-220-0100 Attn.: Chris Block REVISION

PREPARED FOR: (Lots D-151 thru D-21 NVR INC. 9720 Patuxent Woods D Columbia, MD 21046 Phone: 410-379-5956 Attn.: Robert Grothmann

PROFESSIONAL CERTIFICATION 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



ECTION DISTRICT No. 1

SEDIMENT CONTROL PLAN SHIPLEY'S GRANT PHASE VIII - LOTS D-151 thru D-217 (SFA RESIDENTIAL USE) and OPEN SPACE LOT D-218 (Community Building) PLAT No. 24269-24274

G. L. W. FILE No. SCALE 1"=30' 16021 R-A-15DATE TAX MAP - GRID SHEET MAY, 2017 4 of 7 HOWARD COUNTY, MARYLAND

**B-4-3 STANDARDS AND SPECIFICATIONS FOR B-4-5 STANDARDS AND SPECIFICATIONS** SEDIMENT CONTROL NOTES B-4-2 STANDARD AND SPECIFICATIONS FOR SOIL SEEDING and MULCHING FOR PERMANENT STABILIZATION A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC PREPARATION. TOPSOILING, AND SOIL AMENDMENTS STANDARD SYMBOL DETAIL B-1 STABILIZED CONSTRUCTION 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 DETAIL E-1 SILT FENCE DETAIL E-1 SILT FENCE THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. SCE DETAIL E-3 SUPER SILT FENCE ı—SF— -----SF------THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION. ENTRANCE BE GIVEN AT THE FOLLOWING STAGES:

G. 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,

c. PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING. TO USE LONG-LIVED PERENNIAL GRASSES AND LEGUMES TO ESTABLISH PERMANENT GROUND COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES

EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR 6 MONTHS OR MORE. CENTER TO CENTER 36 IN MIN. FENCE POST LENGTH DRIVEN MIN. 18 IN INTO GROUND CONSTRUCTION SPECIFICATIONS MOUNTABLE BERM (6 IN MIN.) TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF PURPOSE

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. USE WOOD POSTS 1% X 1%  $\pm$   $\chi_c$  inch (Minimum) square cut of sound quality hardwood. As an alternative To wooden post use standard "1" or "u" section steel posts weighing not less than 1 point per linear foot. CONSTRUCTION. -4854PK1 CONDITIONS WHERE PRACTICE APPLIES
TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA 16 IN MIN. HEIGHT OF WOVEN SLIT FILM GEOTEXTILE USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART. -EARTH FILL MONWOVEN COTEXTILE MIN. 6 IN OF 2 TO 3 IN
AGGREGATE OVER LENGTH
AND WIDTH OF ENTRANCE SEED MIXTURES USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECORELLY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION. -PIPE (SEE NOTE 6) d. PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES. 8 IN MIN. DEPTH INTO CROUND GROUND SURFACE— PROFILE PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. 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. a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE ELEVATION APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE CONDITION EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND, BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC. OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED ON THE 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 CONTROLS OF THE LOOPE 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. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. FENCE POST 18 IN MIN.

ABOVE GROUND THE REQUIREMENTS OF THE MARYLAND STATE SEED LAY WOVEN SLIT FILM ———— GEOTEXTILE ED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY.
ED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY 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 -UNDISTURBED GROUND EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. THE CONTOUR OF THE SLOPE.

APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.

INCORPORATE LIME AND FERTILIZER INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR TABLE B.4 REGARDING THE QUALITY OF SEED. SEED TAGS MUST BE AVAILABLE UPON REQUEST TO THE INSPECTOR TO VERIFY TYPE OF SEED AND SEEDING RATE.

MULCH ALONE MAY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES

AND THE THE COURT OF THE APPROPRIED BETWEEN THE FALL AND SERVING SEEDING DATES. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT, REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTAIL FENCE c. FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES RECOMMENDED FENCE POST DRIVEN A MIN. OF 16 IN INTO THE GROUND PLAN VIEW BY THE SOIL TESTING AGENCY. ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST B APPLIED WHEN THE GROUND THAWS. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION d. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3 1/2 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 APPLIEU WHEN THE GROUND THAWS.

C. INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES. INOCULANTS MUST NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE PACKAGE, USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING, NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE. POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY. CONSTRUCTION SPECIFICATIONS a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 5 ACRES OR MORE. THE MINIMUM 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 SMOLE FEEDBENCE, COT). USE MINIMUM WITH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. CROSS SECTION 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. SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE: TURFGRASS MIXTURES INSTALL 2% INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH. WALL THICKNESS AND SIX FO LENGTH SPACED NO FURTHER THAN 10 FEET APART, DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE CORD UP. 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, WARRENBING POSITIVE DRAINAGE. PROTECT PIPE. INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5 I 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 DRAINA TO COMPAY, A HIGH SPOT AND HAS NO DRAINA TO COMPAY. A HIGH SPOT AND MECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. 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 I. SOIL PH BETWEEN 6.0 AND 7.0. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE. 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. II. SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM). FOR TOPSOIL (Sec. B-4-2), PERMANENT SEEDING (Sec.B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND FASTEN WOVEN SUIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THUS UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MIB SECTION. EMBED GEOTEXTILE AND CHAIN-LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND. 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 b. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS III. SOIL CONTAINS LESS THAN 40 PERCENT CLAY BUT ENOUGH FINE GRAINED MATERIAL 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. . PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS, (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 (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15'OF CUT AND/OR FILL 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. ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE, AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE. KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS SEEDING RATE: 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 5. MANTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT: ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS, MAMEDIATELY REMOVE STONE AND/OR SEDIMENT SPULED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACCIJUNING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVENENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE. SANDY SOIL (LESS THAN 30 PERCENT SILT PLUS CLAY) WOULD BE ACCEPTABLE, DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST SPREADERS. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT. 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. INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR SITE—SPECIFIC SEEDING SUMMARIES.

APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT. 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. IOINING TWO ADJACENT SILT V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE SITE ANALYSIS: KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN AREA WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE MEDIUM TO O.S. LOT D218 0.64± AC. U.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DEPARTMENT OF ENVIRONMEN NATURAL RESOURCES CONSERVATION SERVICE 2011 WATER MANAGEMENT ADMINISTRATION D151 thru D217 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 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. AREA DISTURBED 3.15± AC. 0.43± AC. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER SEED WITH SOIL.

L. CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A AREA TO BE ROOFED OR PAVED 2.1± AC. 0.19± AC. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST. 1.05± AC. AREA TO BE VEGETATIVELY STABILIZED 0.24± AC. FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED MUST BE FIRM AFTER PLANTING.
APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. 366± CY i. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT PRONE 495± CY 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 AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO MEDIUM SHADE. 495± CY 366± CY 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. OFF-SITE WASTE/BORROW AREA LOCATION : NONE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE LEAVE THE TOP 1 TO 3 INCHES ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED AND FERTILIZER).

i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE. iv. KENTÜCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY MANAGED TURF AREA: MIXTURE INCLUDES; CERTIFIED KENTÜCKY BLUEGRASS CULTIVARS 30, TO 40 PERCENT ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID. THE SITE AND ALL CONTROLS SHALL 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: SOIL LOOSE AND FRIABLE. SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 11/2 TO 3 POUNDS PER 1000 SQUARE FEET. K20 (POTASSIUM), 200 POUNDS PER ACRE TOPSOILING
TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT
VEGETATION. THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. ii. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACRE MAY BE APPLIED BY HYDROSEEDING), NORMALLY, NOT MORE THAN 2 TONS ARE APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR INSPECTION TYPE (ROUTINE, PRE-STORM EVENT, DURING RAIN EVENT)
 NAME AND TITLE OF INSPECTOR SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, HYDRATED LIME WHEN HYDROSEEDING.

ii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT SELECT TUREGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY OF WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION. MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR RECOMMENDATIONS 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. • BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
• EVIDENCE OF SEDIMENT DISCHARGES iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL. CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURE AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER PROTECTION AND IDENTIFICATION OF PLAN DEFICIENCIES IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
 IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
 COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS. MULCH MATERIALS (IN ORDER OF PREFERENCE) TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: D. STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AND REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED, DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN AREAS WHERE ONE SPECIES OF GRASS IS DESIRED. ASSURES A PURE GENETIC LINE THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES MONITORING / SAMPLIN MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
 OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B, 6A VEGETATIVE GROWTH.

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.

THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.

THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE. CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)
SOUTHERN MD. EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 CONSTRUCTION ACTIVITIES (NPDES, MDE). WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

i. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THAT WILL PROVIDE AN APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPEED SLURRY. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTH'S OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER. 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 AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN. 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. WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA: 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 FACTORS.

WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELLULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER ACITATION AND WILL BLEND WITH SEED, FERTILIZER AND OTHER ADDITIVES TO FORM A HOMOGENEOUS SLURRY. THE MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER, ON APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

IV. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO—TOXIC.

V. WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER LENGTH OF 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 FRACMENTS, GRAVEL, STICKS, ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES. 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. 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 CID. UNLESS OTHERWISE SPECIFIED AND APPROVED BY HSCD, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME. ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1.5 INCHES IN DIAMETER. 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. HARDINESS ZONE: 6b SEED MIXTURE: #9 (Tall Fescue/Kentucky Bluegrass) FERTILIZER WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN RATE APPLICATION (10-20-20) LIME RAT SPECIES APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER HOLDING CAPACITY OF 90 PERCENT MINIMUM. DATES DEPTHS TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE. \*Certified Tall Fescue blend 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. (95% by weight): Falcon IV, . EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL. Penn 1901 & Rebel Exeda | 6-8 lb/ | Mar. 1 to May 15, | 1/4 - | 1.0 lb/ 1000 | 90 lb/ a. APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING.
b. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY 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 OF WATER POCKETS. STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS Aug. 15 to Oct. 15 1/2 IN. 1000 s.f. s.f. 1000 s.f. (INCLUSIVE):

• USE I AND IP MARCH 1 — JUNE 15

• USE III AND IIIP OCTOBER 1 — APRIL 30 Certified Kentucky Bluegrass MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE THE APPLICATION RATE TO 2.5 TONS PER ACRE.

WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1500 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER DEP 100 CALLONS OF WATER blend (5% by weight): Courtyard, Raven & Yankee OR WATER POCKETS.

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 PREPARATION. . 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. \* Other cultivars listed as "proven" in the most current UMD TT-77 may also be used SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER). PER 100 GALLONS OF WATER. GENERAL SPECIFICATIONS SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATES
FOR BOTH LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE.

SOIL ANALYSIS MAY BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY.

SOIL SAMPLES TAKEN FOR ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED, SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR. PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 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 SOD MUST BE STRONG ENOUGH 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. METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND EROSION HAZARD: ANALYSES.
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. EROSION HAZARD:

i. A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2. INCHES. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND, THIS PRACTICE SHOULD FOLLOW THE CONTOUR.

ii. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULOSE FIBER PER 100 GALLONS OF WATER.

iii. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO—TACK) DCA—70 **B-4-4 STANDARDS AND SPECIFICATIONS** FOR TEMPORARY STABILIZATION SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS. OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NO
TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE 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 SUBSTITUTED EXCEPT WHEN HYDROSEEDING) WHICH CONTAINS AT LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE PLUS MAGNESIUM OXIDE). LIMESTONE MUST BE GROUND TO SUCH FINENESS THAT AT LEAST 50 PERCENT WILL PASS THROUGH A #100 MESH SIEVE AND 98 TO 100 PERCENT WILL PASS THROUGH A #20 MESH SIEVE.

LIME AND FERTILIZER ARE TO BE EVENLY DISTRIBUTED AND INCORPORATED INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, SPREAD GROUND LIMESTONE AT THE AT THE PRIOR TO ITS INSTALLATION. SOD INSTALLATION iii. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS TO BE HEAVIER AT THE EDGES WHERE WIND.

CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD 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 SLIPPAGE ON SLOPES, ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE UNDERLYING SOIL SURFACE.

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 IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS. 1. SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR THE APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3), AND ENTER THEM IN THE TEMPORARY SEEDING SUMMARY BELOW ALONG WITH APPLICATION RATES, SEEDING DATES AND SEEDING DEPTHS. IF THIS SUMMARY IS NOT PUT ON THE PLAN AND COMPLETED, THEN TABLE B.1 PLUS FERTILIZER AND LIME RATES MUST BE PUT ON THE PLAN.

FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES BY THE TESTING AGENCY SOIL TESTS ARE NOT REQUIRED FOR TEMPORARY SEEDING.

WHEN STABILIZATION IS REQUIRED OUTSIDE OF A SEEDING SEASON, APPLY SEED AND MULCH OR STRAW MULCH ALONE AS PRESCRIBED IN SECTION B-4-3.A.1.B AND MAINTAIN UNTIL THE NEXT SEEDING. RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. IV. LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER RECOMMENDATIONS. NETTING IS USUALLY AVAILABLE IN ROLLS 4 TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG. STANDARDS AND SPECIFICATIONS FOR DUST CONTROL BUILDER'S CERTIFICATE (SFA LOTS D-151 thru D-217) CONTROLLING THE SUSPENSION OF DUST PARTICLES FROM CONSTRUCTION ACTIVITIES. "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED TEMPORARY SEEDING SUMMARY IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE ON AND OFF-SITE DAMAGE INCLUDING HEALTH AND TRAFFIC HAZARDS. A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING HARDINESS ZONE: 6b FERTILIZER PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING SEED MIXTURE AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. RATE | LIME RATE THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD." SEEDING SPECIES RATE (lb/ac.) 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 PREVENT WILTING.
 b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE (10-10-10) DATES SPECIFICATIONS

MULCHES: SEE SECTION B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS, SECTION B-4-3 SEEDING AND MULCHING, AND SECTION B-4-4 TEMPORARY STABILIZATION. MULCH MUST BE ANCHORED TO PREVENT BLOWING.

VEGETATIVE COVER: SEE SECTION B-4-4 TEMPORARY STABILIZATION.

TILLAGE: TILL TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, SPRING-TOOTHED HARROWS, AND SIMILAR PLOWS ARE EXAMPLES OF EQUIPMENT THAT MAY PRODUCE THE DESIRED EFFECT.

IRRIGATION: SPRINKLE SITE WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. THE SITE MUST NOT BE IRRIGATED TO THE POINT THAT RUNOFF OCCURS. BARRIERS: SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND. SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. 40 lb/ac Aug. 1 to Oct. 15 0.5 INCHES 436 lb./ac. 2 tons/ac RYEGRASS (10 lb./\ (90 lb./ PEARL MILLET 20 lb/ac May 16 to July 31 0.5 INCHES 1,000 sf) 1,000 sf) DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF MUSBE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED. GNATURE OF BUILDER (SFA LOTS D-151 thru D-217) DATE **B-4-8 STANDARDS AND SPECIFICATIONS** BUILDER'S CERTIFICATE (0.S. LOT D-218, Community Bldg.) FOR STOCKPILE AREA "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED A MOUND OR PILE OF SOIL PROTECTED BY APPROPRIATELY DESIGNED EROSION AND SEDIMENT CONTROL MEASURES. IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT 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. CHEMICAL TREATMENT: USE OF CHEMICAL TRÉATMENT REQUIRES APPROVAL BY THE APPROPRIATE PLAN REVIEW AUTHORITY. A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HSCD." THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT CRITERIA

1. THE STOCKPILE LOCATION AND ALL RELATED SEDIMENT CONTROL PRACTICES MUST BE CLEARLY INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN.

2. THE FOOTPRINT OF THE STOCKPILE MUST BE SIZED TO ACCOMMODATE THE ANTICIPATED VOLUME OF MATERIAL AND BASED ON A SIDE SLOPE RATIO NO STEEPER THAN 2:1. 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-EROSIVE 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 B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION.

8. IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE, A LINER SHOULD BE PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING. NO STOCKPILING PERMITTED ON SITE SIGNATURE OF DEVELOPER/BUILDER (O.S.LOT D-218) DATE APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING **ENGINEER'S CERTIFICATE** 'I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL Date KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN Chief Division of Land Development of Development ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL MAINTENANCE

THE STOCKPILE AREA MUST CONTINUOUSLY MEET THE REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. SIDE SLOPES MUST BE MAINTAINED 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, 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. CONSERVATION DISTRICT." 7.14.17 THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY Chief, Development Engineering Division SATE OF L SEDIMENT CONTROL NOTES and DETAILS PREPARED FOR: SCALE GLWGUTSCHICK LITTLE &WEBER, P.A. PROFESSIONAL CERTIFICATION OWNER/DEVELOPER (O.S. LOT D-218): SHIPLEY'S GRANT NO SCALE HEREBY CERTIFY THAT THESE PLANS BA Waterloo Townhomes, LLC (Lots D-151 thru D-217 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS WERE PREPARED OR APPROVED BY PHASE VIII - LOTS D-151 thru D-217 (SFA RESIDENTIAL USE) c/o Bozzuto Homes, Inc. NVR INC. 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK ME, AND THAT I AM A DULY LICENSED . PROFESSIONAL ENGINEER UNDER THE 6406 lvy Lane, Suite 700 9720 Patuxent Woods Di BURTONSVILLE, MARYLAND 20866 and OPEN SPACE LOT D-218 (Community Building) TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186 LAWS OF THE STATE OF MARYLAND,

Columbia, MD 21046

Phone: 410-379-5956

Attn.: Robert Grothmann

LICENSE NO. 12975 EXPIRATION DATE: MAY 26, 2018

Greenbelt, MD 20770

301-220-0100

BY APP'R.

REVISION

:\CADD\DRAWNGS\03006\PHASE VIII\SDP\16021 (04-05) SC.dwg | DES. mbt | DRN. klp | CHK. CKG |

Attn.: Chris Block

G. L. W. FILE No.

16021

SHEET

5 of 7

ZONING

R-A-15

TAX MAP - GRID

37 - 1&2

MAY, 2017

HOWARD COUNTY, MARYLAND

PLAT No. \_\_\_\_\_

ELECTION DISTRICT No. 1

STANDARD SYMBOL

----SSF-----I

10 FT MAX.

ELEVATION

CROSS SECTION

CHAIN LINK FENCING -WOVEN SLIT FILM GEOTEXTILE

TURING TOWN

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

GALVANIZED CHAIN LINK FENCE WITH WOVEN SLIT FILM GEOTEXTILE

