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

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/ BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK

THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT I-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

THE RI-I (STOP) SIGNS AND THE STREET NAME SIGN (SNS) ASSEMBLIES FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED.

) THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2430) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL

SHALL BE IN PLACE PRIOR TO PLACEMENT OF ANY ASPHALT. ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED (QUICK PUNCH), SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2"

ZONING: THE SUBJECT PROPERTIES ARE ZONED R-A-15 PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.

PREVIOUS DEPARTMENT OF PLANNING AND ZONING FILE NUMBERS: S-04-09, F-06-19, F-07-001, F-09-088, F-11-26, S-14-003, F-14-054, P-15-002

TOTAL AREA OF SITE:. AREA OF 100 YR. FLOODPLAIN: 0.00 ACRES± AREA OF STEEP SLOPES (OUTSIDE OF FLOODPLAIN) .. 6.72 ACRES± AREA OF PROPOSED ROADWAY (PUBLIC): 1.42 ACRES± NO. OF SINGLE FAMILY ATTACHED LOTS: AREA OF SINGLE FAMILY ATTACHED LOTS: NO. OF OPEN SPACE LOTS ... AREA OF CREDITED OPEN SPACE: AREA OF NON-CREDITED OPEN SPACE O.I. ACREST TOTAL AREA OF OPEN SPACE: 1,97 ACRES± NO. OF COMMON SPACE LOTS.

AREA OF COMMON OPEN SPACE (ALLEY) TOTAL APPROXIMATE LIMIT OF PROP. SITE DISTURBANCE:..

OPEN SPACE REQUIREMENTS: SEE DEVELOPMENT TRACKING CHART THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.

. THE CEMETERY INVENTORY MAP DOES NOT SHOW ANY CEMETERIES WITHIN THE PROJECT LIMITS (PHASE 8). F. 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).

5. 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 31GA AND 37A4

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 PLANS

20. THE WETLAND DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY BY EXPLORATION RESEARCH, INC. JURISDICTIONAL DETERMINATION AND VERIFICATION OF DELINEATION OF WATERS OF OF ENGINEERS ON 3/28/03. THE STUDY WAS APPROVED WITH S-04-09 ON 2/15/05. THERE ARE NO STREAMS OR WETLANDS WITHIN THE LIMITS OF PHASE 8.

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 FUTURE

23. 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 7 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.

24. THE GEO-TECHNICAL REPORT WAS PROVIDED BY SPECIALIZED ENGINEERING DATED JULY 6, 2015. 25. EXISTING UTILITIES WERE TAKEN FROM AVAILABLE HOWARD COUNTY RECORDS AND PREVIOUS SHIPLEY'S GRANT DEVELOPMENT PLANS

26. THE PROJECT IS WITHIN THE METROPOLITAN DISTRICT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

GLWGUTSCHICK LITTLE & WEBER, P.A

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866

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

\CADD\DRAWINGS\03006\Phase VIII\Finals\13063-CS.dwg DES, dds DRN, dds CHK,

Chief, Bureau of Highways 🛮 💉

Chief, Development Engineering Division

EXISTING CONTRACT NUMBERS: 14-4355-D, 14-4334-D, 14-4484-D, 14-4513-D, 14-4609-D, 44-4740-D & 14-4875-D

8. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, OR PLACEMENT OF NEW STRUCTURES IS PERMITTED WITHIN LIMITS OF WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, AND 100 YEAR FLOODPLAIN AREAS, UNLESS PERMITTED UNDER AN APPROVED WAIVER PETITION OR DETERMINED TO BE ESSENTIAL OR NECESSARY BY DPZ.

9. THE FOREST CONSERVATION REQUIREMENT FOR THIS SUBDIVISION IS PROVIDED BY THE FCP UNDER F-06-019 WHICH WAS AMENDED (BY REDLINE PROCESS) TO RECONFIGURE THE PORTION OF FCE-5 ON BULK PARCEL D-2 FOR

STORMMATER 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 MQ, GPV, 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. THE RECHARGE TRENCH WILL BE PRIVATELY OWNED AND MAINTAINED BY THE HOA

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 CURRENTLY FUNCTIONING AS A BASIN FOR TEMPORARY STORMWATER MANAGEMENT AND ALL CONSTRUCTION FOR FACILITY D WILL BE COMPLETED PRIOR TO MAY 4, 2017.

4. 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 VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS A) WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE)

B) SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (I-I I/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)

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 35. PER ZONING SECTION 112.0.6, 10% OF THE TOTAL NUMBER OF UNITS, 6 UNITS, MUST BE DEDICATED AS MIHU'S. THE MIHU LOTS WILL BE LOTS D-162, D-168, D-171, D-187, D-193: D-194.

SHEET FOR ADDITIONAL INFORMATION 36. THE MINIMUM WIDTH OF COMMON OPEN SPACE LOTS THAT CONTAIN ALLEYS SHALL BE 24 FEET, THE MINIMUM WIDTH OF ALLEY DRIVE LANES SHALL BE 16 FEET,

37. ALL PRIVATE ALLEYS ARE DESIGNED TO SUPPORT 2-WAY TRAFFIC.

38. ALL PUBLIC STREETS WITHIN THIS DEVELOPMENT SHALL HAVE SIDEWALKS ON BOTH SIDES OF THE ROADWAY. SFA LOTS MAY NOT BE ENCUMBERED WITH SIDEWALKS AND/OR SIDEWALK EASEMENTS 39. ON JULY 14, 2004, MP 04-105, A WAIVER OF SECTION 16.120.C.(4) WAS GRANTED WHICH REQUIRES SINGLE FAMILY ATTACHED LOTS TO HAVE AT LEAST 15' OF FRONTAGE ONTO A PUBLIC ROAD RIGHT-OF-WAY; SECTION 16.119.E.(5), WHICH REQUIRES TRUNCATION OF PUBLIC ROAD RIGHT-OF-WAY BOUNDARIES WHERE PUBLIC ROADS INTERSECT (AT CORNER LOTS); AND SECTION 16.116.A.2.(1) WHICH PROHIBITS DISTURBANCE TO STREAMS AND STREAM BUFFERS, TO ALLOW CONSTRUCTION OF TWO PEDESTRIAN BRIDGES TO CROSS THE STREAMS. SUBJECT TO THE FOLLOWING 2 CONDITIONS IN THE APPROVAL LETTER:

I. THE DISTURBANCE TO THE STREAM AND STREAM BUFFER RELATED TO THE PEDESTRIAN BRIDGES SHALL BE MINIMIZED, THE PRELIMINARY PLAN SHALL SHOW THE LIMIT OF DISTURBANCE AND PROPOSED GRADING ASSOCIATED WITH THE BRIDGES, AND SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE SUBDIVISION REVIEW COMMITTEE.

2. IF IT IS DETERMINED BY THE DED THAT SIGHT DISTANCE IS INADEQUATE AT THE INTERSECTIONS FOR WHICH TRUNCATION AS WAIVED, THEN THE APPROPRIATE EASEMENTS MUST BE ADDED TO THE PLAN/PLAT.

40. THE FUTURE POOL SIZE IS 1800 SF, A MAXIMUM OF 5' DEEP, AND CAN ACCOMMODATE A MAXIMUM OF 150 PEOPLE AS CONFIRMED BY AN EMAIL FROM THE HEALTH DEPARTMENT ON OCT. 22-23, 2014. . THE FUTURE POOL BUILDING AS SHOWN ON SHEET 7 IS ASSOCIATED WITH THE POOL USE AND NO ADDITIONAL PARKING IS REQUIRED. IF USES OF THE BUILDING EXTEND BEYOND CHANGING ROOMS FOR THE POOL AND MINOR AMENITIES, SUCH AS: AN AREA OF PUBLIC ASSEMBLY, ADDITIONAL PARKING MAY BE REQUIRED. IN A MEETING ON 1/21/2016, DED DETERMINED THAT THE SMALL SOCIAL AREA (100 SF +/-) SHOWN ON THE PRELIMINARY CLUBHOUSE ARCHITECTURE PLANS DOES NOT QUALIFY AS AN ADDITIONAL USE AND WOULD NOT REQUIRE ANY ADDITIONALLY PARKING.

42. ALL UNITS HAVE 2 CAR GARAGES. ALL UNITS WITH DRIVEWAYS LESS THAN 9' IN LENGTH FROM THE BUILDING TO THE SIDEWALK OR CURB MUST ONLY USE THEIR GARAGE FOR THE TWO REQUIRED PARKING SPACES. 43. 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 LESS THAN 9 FEET IN LENGTH FROM THE GARAGE TO THE FLOWLINE OF THE CURB

44. ON MAY 12, 2016 A DESIGN MANUAL MAIVER REQUESTING A WAIVER OF SECTION 5.4 CROSSINGS AND CLEARANCES, PARAGRAPH B.5 OF THE HOWARD COUNTY WATER AND SEWER 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-160 THRU D-177 AND LOTS D-186 THRU D-196. ANY PROPOSED FUTURE DECK FOR LOTS D-178 AND D-179, SHALL BE A MAXIMUM SIZE OF 8 FEET DEEP FROM THE UNIT 5. PRIVATE ROAD STREET NAME SIGN ASSEMBLIES SHALL BE FABRICATED AND INSTALLED BY HOWARD COUNTY BUREAU OF HIGHWAYS AT THE DEVELOPERS/OWNERS EXPENSE. CONTACT HOWARD COUNTY TRAFFIC DIVISION AT

6. ON SEPTEMBER 27, 2016 A DESIGN MANUAL WAIVER REQUESTING A WAIVER OF SECTION 2.5.B.9 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME III, REGARDING THE INTERSECTION SIGHT DISTANCE FOR ALLEY B/CHARLES CROSSING TO ACCEPT 381' OF AVAILABLE SIGHT DISTANCE IN LIEU OF THE 445' REQUIRED, AND ALLEY B/HIGGEN GARDEN & GLEN WILLOW WAY TO ACCEPT 150' OF AVAILABLE SIGHT DISTANCE IN LIEU OF THE 155' REQUIRED

47 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

1241/2016

UNIT TABULATION 🔼 MIHU CONDOMINIUM/ PROPOSED UNIT ON-SITE OFF-SITE APARTMENT UNITS DENSITY MAXIMUM UNITS PERMITTED PROPOSED R-A-15 UNITS MARKET RATE MIHU TAL UNITS REQUIRED ON-SITE MIHU'S @ 10% (15 Units / Net Ac.) SFA UNITS 62 (66) 10.7 (11.4) UNITS/NET AC. PHASE II 5.81 AC 65 (69) PHASE III 12.44 AC. 5.2 (5.5) UNITS/NET AC. 65 (57) 11.3 (9.9) UNITS/ NET AC. PHASE IV 5.77 AC. 6 48 (40) PHASE V 5.50 AC. 10.5 UNITS/ NET AC. PHASE VI 4.20 AC. 19.3 UNITS/ NET AC. PHASE VII 0.75 AC. 17.3 UNITS/ NET AC. PHASE VIII 6.60 AC 10.2 UNITS/ NET AC. SITE TOTAL 53.34 AC. 375 (380) 21 26 68 (72 8.7 UNITS/NET AC.

OF THE 48 MIHU'S THAT ARE REQUIRED, 22 ARE PROVIDED ON-SITE (on Lots B-5, C-3, C-4, C-11, C-12, C-19, C-20, C-32, C-33, D-43, D-44, D-48, D-49, D-127, D-128, D-162, D-168, D-171, D-167, D-193 D-194) AND 26 ARE TO BE PROVIDED OFF-SITE.

THE NUMBERS IN PARENTHESIS ARE THE RESULT OF TRANSFERRING 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.

THE PHASE IV APARTMENTS ARE ON SDP-10-087. PHASE VI LOTS D-124 THRU D-131 WILL BE PART OF A FUTURE SDP (INCLUDED IN UNIT TABULATION).

PHASE V LOT C-337 WAS INCLUDED IN SDP-10-082

2.27.2017 Open apace . MIHU tableareviaed /

THE PHASE VI APARTMENTS ARE ON SDP 12-045 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 LOUNITS, THE TOTAL NUMBER OF MIHUS REQUIRED HAS BEEN REDUCED BY L

PREPARED FOR & OWNER: BA WATERLOO TOWNHOUSES, LLC C/O BOZUTTO HOMES, INC. 6406 IVY LANE, SUITE 700 GREENBELT, MARYLAND 20770 ATTN.: CHRIS BLOCK 301-623-3672

LOCATION

0/5 D-218 1,049

OVERALL PROPERTY OUTLINE

SHEET INDEX

COVER SHEET

ROAD DETAILS

GRADING PLAN

ROAD DETAILS

LOCATION

LOT D-218

LOT D-219

LOT D-220

LOT D-221

TOTALS

0/S D-218

ALLEY GRADING PLAN

SEDIMENT CONTROL PLAN

STORM DRAIN PROFILES

12. CURB RETURN PROFILES

IO. LANDSCAPE PLAN & DETAILS

15. CONTECH RECHARGE DETAILS

16. CONTECH RECHARGE DETAILS

24,680 SF

0 SF

. 0 SF

52,510 SF

77,190, SF

RECREATION OPEN SPACE

TABULATION ,

* SEE DEVELOPMENT TRACKING CHART FOR CUMULATIVE OPEN SPACE TABULATIONS.

24,680 S.F.

Traditional Neighborhood Development (TND)

PERIMETER PUBLIC/PRIV. PUBLIC/PRIV. AREA AREA

ROAD

FRONTAGE

PROPOSED

Open Space Tabulation

262 L.F. (25%) 301 L.F. (28.7%)

*** THE TND AREA REQUIREMENT IS MET FOR SHIPLEY'S GRANT AS AN ENTIRE SUBDIVISION

SEE DEVELOPMENT TRACKING CHART FOR CUMULATIVE OPEN SPACE TABULATIONS.

13. MAINTENANCE OF TRAFFIC PHASE I

14. MAINTENANCE OF TRAFFIC PHASE 2

GLEN WILLOW WAY PLAN AND PROFILE

SEDIMENT CONTROL NOTES AND DETAILS

OPEN SPACE TABULATION* /

CREDITED O.S. NON-CREDITED O.S.

3,182 SF

2,111 SF

469 SF

3.120 SF

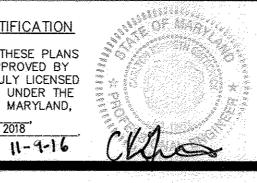
8.882 SF

STORM DRAIN DRAINAGE AREA MAP

PROFESSIONAL CERTIFICATION HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY MF. AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975 EXPIRATION DATE: MAY 26, 2018

FRONTAGE

REQUIRED



TOTAL OS

7.862 SF

2,111 SF

469 SF

55.630 SF

86.072 SF

REQUIRED PROPOSED

24,680 SF

FINAL PLAN

SHIPLEY'S GRANT

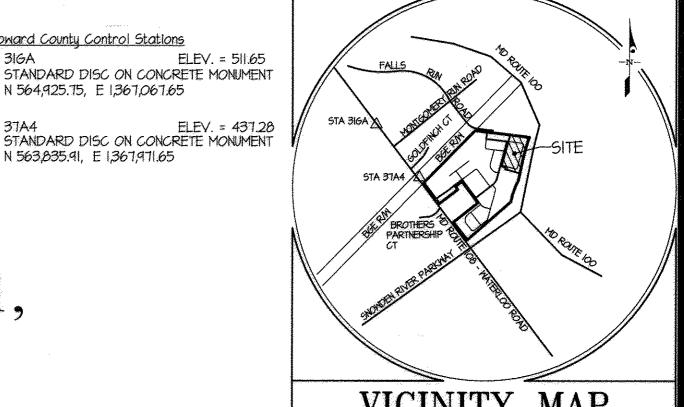
PHASE VIII

LOTS D-151 - D-217, OPEN SPACE LOTS D-218 - D-221,

COMMON OPEN SPACE LOT D-222 & D-223

STANDARD DISC ON CONCRETE MONUMENT

N 564,925.75, E 1367,067.65



ADC MAP PAGE 34 GRID C-I

Pool Parking Calculations: Total number of persons permitted in the pool at one time by the Health Department = 1800 sf x | person / 12 sf = 150 people Pool parking required @ I space / 10 persons permitted in the pool at one time by the Health Department = 15 spaces Parking Required: Standard Units - 60 x 2.0 = 120 spaces - 7 x 2.0 = 14 spaces Guest Parking - 67 x 0.5 = 34 spaces Pool Parking - 15 spaces (See Pool Calculations above)

Total - 183 spaces Parking Proposed: Standard Units - 60 x 2 Sp / Garage = 120 spaces - 7 x 2 Sp / Garage = 14 spaces Guest and Pool - 43 parallel spaces on Gler Willow Way

7 spaces on Sweet Corn Drive 2 spaces on Hidden Garden Lane Total - 186 spaces The pool size is 1,800 sf, a maximum of 5' deep, and can accommodate a maximum of 150 people as confirmed by an email from the Health Department on Oct. 22-23, 2014.

SETBACK REQUIREMENTS PER 112.D.4 (R-A-15) AND 126.G.4 (TRADITIONAL RESIDENTIAL)	_ NEI <i>GHBORHOOD</i> S)
SETBACK TYPE	SETBACK SINGLE FAMILY ATTACHED
FROM EXTERNAL ARTERIAL OR MAJOR COLLECTOR PUBLIC STREET RIGHT OF WAY	
(I) STRUCTURES (a) FRONT OR SIDE	30' 50' 30'
FROM OTHER EXTERNAL PUBLIC STREET RIGHT OF WAY (1) STRUCTURES (b) SFA FRONT OR SIDE	20' 40' 20'
FROM INTERNAL PUBLIC STREET RIGHT OF WAY FRONT OR SIDE	0'
FROM INTERNAL ALLEY RIGHT OF WAY SIDE OR REAR	.0'
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 (c) OTHER STRUCTURE OR USES	75' 50' 25' 20'
BUILDING TO BUILDING FACE TO FACE	30' 30' 15' 60'

400	EXISTING CONTOUR		PROPOSED EASEME
400	PROPOSED CONTOUR	25' BRL	
	EXISTING TREE LINE	25 DR	PROPOSED BUILDING RESTRICTION LINE
EX. 8"5S	EXISTING SANITARY SEMER		
<u>8*5.</u>	PROPOSED SANITARY SEWER		PROPOSED PAVING
EX. 8"W.	EXISTING WATERLINE		PROPOSED BUILDING
8" <u>W</u>	PROPOSED WATERLINE		
	- PROPOSED FIRE HYDRANT		
	EXISTING STORM DRAIN		EXISTING BUILDING
	PROPOSED STORM DRAIN	L	EXISTING WILDING
(202)	STRUCTURE NUMBER		COU POSSIDADO
	LIMIT OF SITE	GnA -	SOIL BOUNDARY SOIL TYPE
	CONCRETE SIDEWALK	• • • •	LIMIT OF DISTURBAN
etrato indicato, retritorio, appirores dimensos uniquestas.	EXISTING CURB AND GUTTER	\Phi	PROPOSED STREET LIG
and the second s	EXISTING EDGE OF PAVEMENT		PROPOSED NOISE WALL
	PROPOSED CURB AND GUTTER		CTOE AND DANK
FP FP FP	100 YEAR FLOODPLAIN	5750- 50500 Vienne	— STREAM BANK CENTERLINE OF STR
	-LIMIT OF WETLAND		-STEEP SLOPES - 259 AND GREATER
***	WETLAND AREA		(PER 16.108 b.55)
—— S88 —— S88 ——	STREAM BANK BUFFER		FOREST CONSERVATION
WB	WETLAND BUFFER	FCE	EASEMENT

STORMWATER MANAGEMENT INFORMATION

(QUANTITY)

PRIVATE MAINTAINS

INFILTRATION (I) PRIVATE | ALL

LOT/PARCEL FACILITY NAME | PRACTICE TYPE | PUBLIC / | HOA |

& NUMBER

FACILITY I

NUMBER

LOT D-22

-	PARCEL NUMBER OR HOWARD COUNTY FILE No.		DEVELOPMENT TRACKING CHART AND SITE ANALYSIS FOR R-A-15 ZONE AREAS								
PHASE		PLAN STATUS	GROSS	100 YR. FLOODPLAIN	NET	MIN. 0/S ¹ REQ'D	0/s PROV. ²	MIN. REC. O/S REQ'D	REC. O/S PROVIDED	MIN. REQ'D. TND O/S ⁴	TND O/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%)	24,800 S.F. ³	5 7,503 S.F.	0.68 AC./29,686 S.F.	0.99 AC./43,157 S.F. ⁹
2	F 07-059/SDP-07-048	APPROVED	5.81 AC.	0.00 AC.	5.81 AC.	1.45 AC.	0.65 AC. (11%)	24,800 S.F. ³	28,248 S.F.	0.29 AC./12,654 S.F.	0.85 AC./37,124 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%)	26,000 S.F. ³	27,840 S.F.	0.65 AC./28,183 S.F.	0.37 AC./16,126 S.F. ¹⁰
4	F 09-088/SDP-10-082, SDP-10-87	APPROVED	5.77 AC.	0.00 AC.	5.77 AC.	1.44 AC.	1.68 AC. (30%)	26,000 S.F. ³	6,591 S.F.	0.29 AC./12,567 S.F.	0.15 AC./6,591 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%)	23,600 S.F. ³	0 S.F.	0.28 AC./11,979 S.F.	0 AC./0 S.F.
6	F 11-026/SDP-12-061, SDP-12-045 , SDP-16-079	APPROVED	4.20 AC.	0.00 AC.	4.20 AC.	1.05 AC.	0.09 AC. (2%)	28,400 S.F. ³	21,146 S.F.	0.21 AC./9,148 S.F.	0 AC./0 S.F.
7	F 14-123/SDP-14-063 ⁵	APPROVED	0.75 AC.	0.00 AC.	0.75 AC.	0.19 AC.	0.0 AC.	9,100 S.F. ⁵	0 S.F.	0.04 AC./1,633 S.F.	0 AC./0 S.F.
8	PARCEL D-2/S-14-003/P-15-002/F-16-116	PLANS SUBMITTED	6.60 AC.	0.00 Ac.	6.60 AC.	1.65 AC.	1.77 AC. (27%)	4 6,300 S.F. ⁶	24,680 S.F.	0.33 AC./14,375 S.F.	0.57 AC./24,680 S.F.
	AMENITY CREDITS 7 8								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.F.

100'

DEVELOPMENT TRACKING CHART AND SITE ANALYSIS NOTES:

1. MINIMUM REQUIRED OPEN SPACE (O/S) IS CALCULATED AS 25% OF THE GROSS AREA.

REAR TO REAR ACROSS AN ALLEY

REAR TO FACE.

2. 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.

5. 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 USABLE YARD) - 13 LOTS x 700 SF = 9,100 SF. 6. 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 700 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. LOTS WITHOUT A 15' USUABLE YARD ARE SHOWN ON SHEET

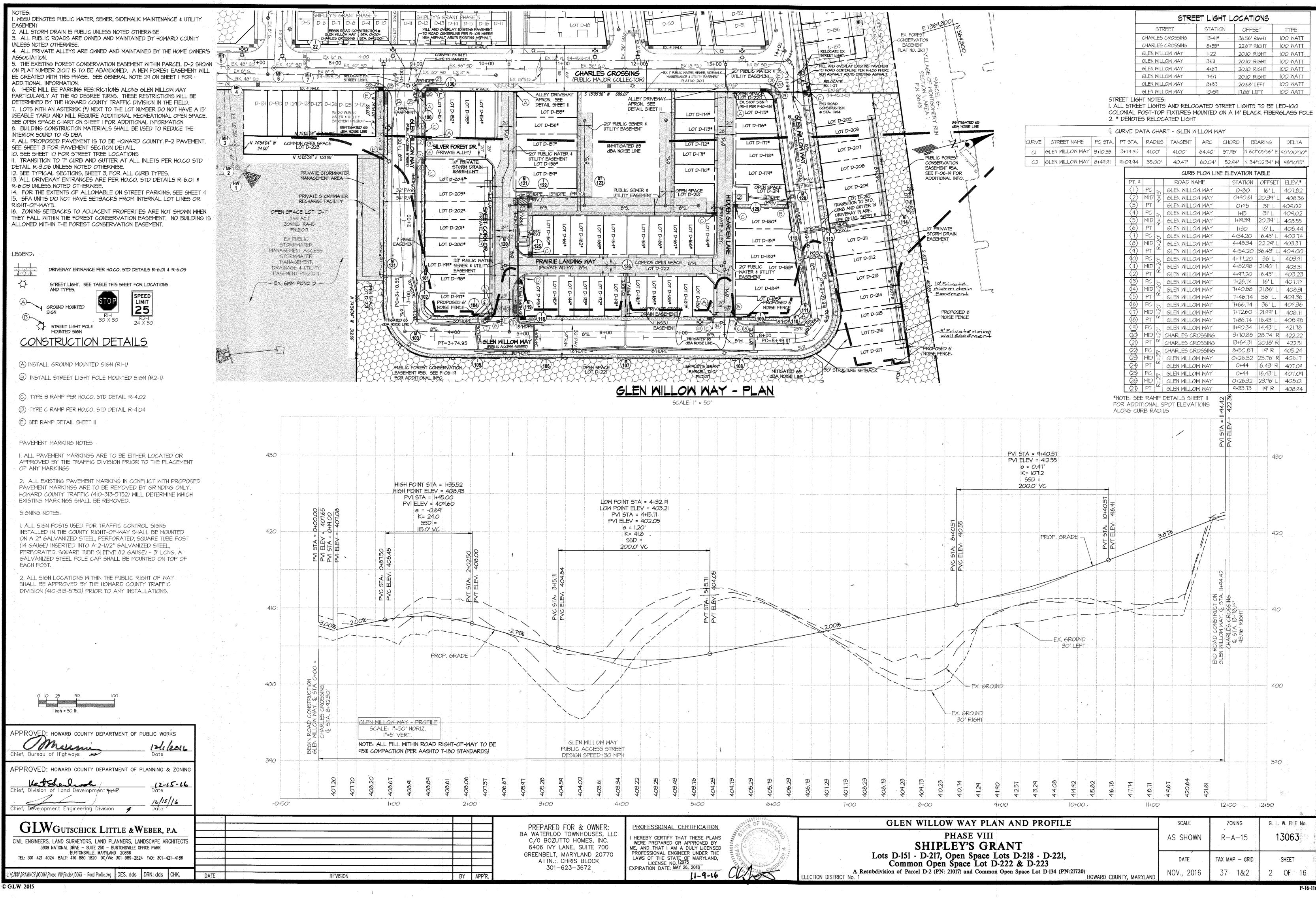
2 WITH A (*) NEXT TO THE LOT NUMBER 7. 13,520 SF OF RECREATION OPEN SPACE HAS BEEN INCLUDED USING AMENITY FEATURE AREA CREDITS APPROVED BY DPZ (PER THE 6/15/2012 POLICY MEMO), INCLUDING 3,960 SF FOR A COMMUNITY CENTER, 3,960 SF FOR A COMMUNITY POOL 2,000 SF FOR A GAZEBO. 2000SF FOR A TOT LOT. AND 1,600 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 REDUNE TO THIS PLAN WILL BE REQUIRED TO UPDATE THE CHART AND THE CREDIT VALUES. 8. 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 (4.740 SF EACH FOR THE POOL AND COMMUNITY CENTER IN PHASE 8 AND 780 SF EACH WAS ADDED FOR THE COMMUNITY CENTER AND POOL ON LOT C-135 FOR THE 78 LOTS IN PHASES 7 & 8 THAT WERE NOT INCLUDED IN THE

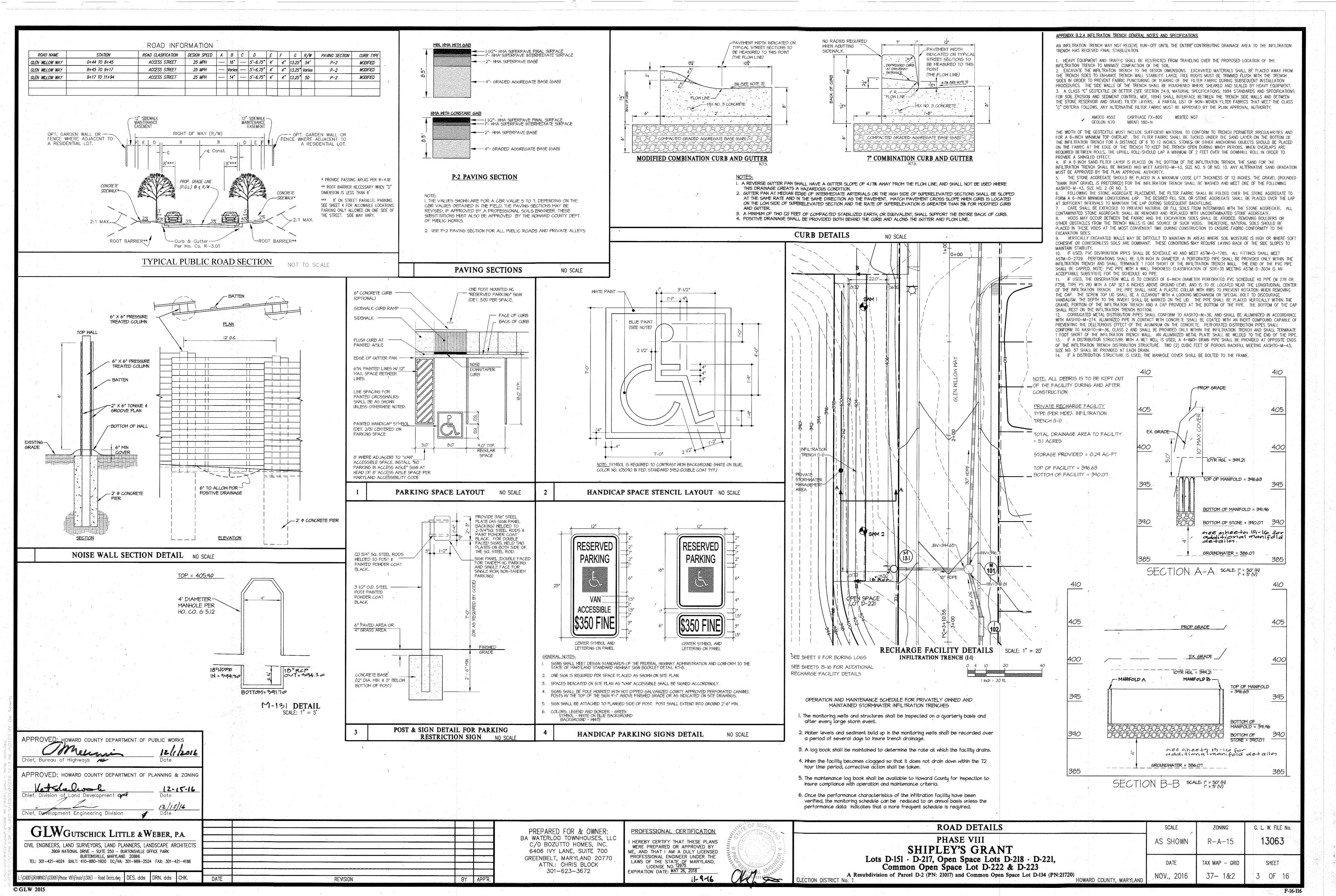
ORIGINAL CREDIT), AND 21,315 SF FOR ASPHALT PATHWAYS AS OUTLINED IN A LETTER TO DPZ DATED 10/1/2014 CREDITS FOR THE COMMUNITY CENTER AND POOL MAY BE INCREASED IF A REGULATION OR A DPZ POLICY INCREASES THE VALUE FOR THESE MAJOR RECREATIONAL FACILITIES. IF A CREDIT VALUE IS INCREASED, A REDLINE TO THIS PLAN WILL BE REQUIRED TO UPDATE THE CHART AND THE CREDIT VALUES.

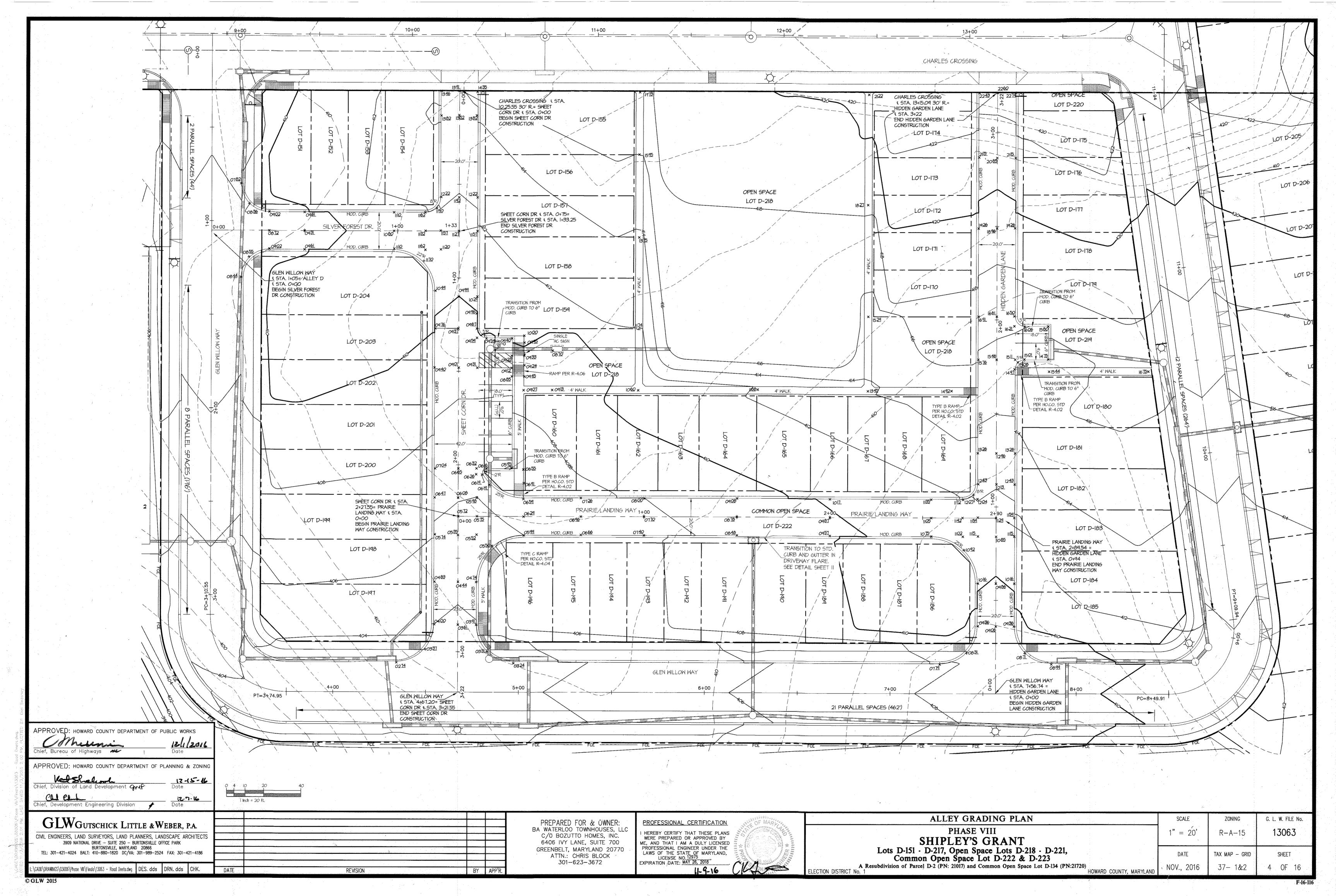
9. INCLUDES ADDITIONAL TND OS ADDED BY REDLINE TO SDP-07-047 IN JANUARY 2013

10. INCLUDES ADDITIONAL TND OS ADDED BY REDLINE TO SDP-10-082 IN JANUARY 2013

The state of the s			
COVER SHEET	SCALE	ZONING	G. L. W. FILE No.
PHASE VIII SHIPLEY'S GRANT	AS SHOWN	R-A-15	13063
Lots D-151 - D-217, Open Space Lots D-218 - D-221, Common Open Space Lot D-222 & D-223	DATE	TAX MAP — GRID	SHEET
A Resubdivision of Parcel D-2 (PN: 21017) and Common Open Space Lot D-134 (PN:21720) HOWARD COUNTY, MARYLAND	NOV., 2016	37- 1&2	1 OF 16









B-4-2 STANDARD AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

THE PROCESS OF PREPARING THE SOILS TO SUSTAIN ADEQUATE VEGETATIVE STABILIZATION. TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH.

A. SOIL PREPARATION

PARALLEL TO THE CONTOUR OF THE SLOPE.

. TEMPORARY STABILIZATION

SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF SHITARI 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 UT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE TO BE TRACKED WITH RIDGES RUNNING

. 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 OTHER SUITABLE

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.

II. 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)

- IV. SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
- V. SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADÉQUATE ROOT PENETRATION. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON—SITE SOILS DO NOT MEET THE ABOVE
- 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.
- APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL

MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. RAP LAWN AREAS TO SMOOTH THE SURFACE. REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES AND READ AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMEN TO ROUGHEN THE SURFACE 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 RIDGE RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE, LEAVE THE TOP 1 TO 3 INCHES OF SOIL LOOSE AND FRIABLE: SEEDBED LOOSENING MAY BE UNNECESSARY ON NEWLY DISTURBED AREAS.

. TOPSOILING

- TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION. THI 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
- 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.
- TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- EXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE GROWTI IE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR JRNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN.

THE SOIL IS SO ACIDIC THAT! TREATMENT WITH LIMESTONE IS NOT FEASIBLE

- TOPSOIL SPECIFICATIONS: SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING CRITERIA
- TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SAND. OTHE 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, CRAVEL, STICKS, 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,
- TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LIEU OF NATURAL TOPSOIL.
- TOPSOIL APPLICATION
- EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL. 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
- OPSOIL 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.

SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL.

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

Development Engineering Division

- 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 ANALYSES. FERTILIZERS MUST BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURATE APPLICATION BY PPROPRIATE 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 LIME MATERIALS MUST BE GROUND LIMESTONE (HYDRATED OR BURNT LIME MAY BE 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. ME 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 RATE OF 4 TO 8 TONS/ACRE (200-400 POUNDS.

H-5 STANDARDS AND SPECIFICATIONS FOR DUST CONTROL CONTROLLING THE SUSPENSION OF DUST PARTICLES FROM CONSTRUCTION ACTIVITIES.

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES TO REDUCE ON AND OFF-SITE DAMAGE INCLUDING

CONDITIONS WHERE PRACTICE APPLIES

AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT.

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.

- 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.

CHEMICAL TREATMENT: USE OF CHEMICAL TREATMENT REQUIRES APPROVAL BY THE APPROPRIATE PLAN REVIEW AUTHORITY.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS					
Omneunie Velilais					
Chief, Bureau of Highways 🐠 Date					
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING					
Ketsherwell 12-15-16					
Chief, Division of Land Development Om Date	ŀ				

GLWGUTSCHICK LITTLE &WEBER, P.A

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS

3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK

BURTONSVILLE, MARYLAND 20866

E:\CADD\DRAWINGS\03006\Phase VIII\Finals\13063-SNE.dwg | DES. dds | DRN. dds | CHK.

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

12-7-16

ENGINEER'S CERTIFICATE FEERTIFY 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 SOIL CONSERVATION DISTRICT "

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING and MULCHING

THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER.

TO PROTECT DISTURBED SOILS FROM EROSION DURING AND AT THE END OF CONSTRUCTION. CONDITIONS WHERE PRACTICE APPLIES

TO THE SURFACE OF ALL PERIMETER CONTROLS, SLOPES, AND ANY DISTURBED AREA NO UNDER ACTIVE GRADING

SPECIFICATIONS

SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. D MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY / SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY PRECEDIN DATE OF SOWING SUCH MATERIAL ON ANY PROJECT, REFER TO 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
ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE APPLIED WHEN THE GROUND THAWS. INOCULATES: THE INOCULATE FOR TREATING LEGUME SEED IN THE SEED MIXTURES MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALL FOR THE SPECIES. INOCULATES MUST NOT BE USED LATER THAN THE DATE INDICAT ON THE CONTAINER, ADD FRESH INOCULATES AS DIRECTED ON THE PACKAGE, USE

FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING, NOTE: IT IS VERY IMPORTANT TO KEEP INOCULATE AS COOL AS POSSIBLE UNTIL USED. TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE 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

ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS. APPLICATION

- DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST
- 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.
- DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A 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
- HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES SEED) IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRI TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE; K20 (POTASSIUM), 200 POUNDS PER ACRE. 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 HYDRATE

THE SEEDING RATE IN EACH DIRECTION.

JME WHEN HYDROSFFDING MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

MULCH MATERIALS (IN ORDER OF PREFERENCE)

- STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AN REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS A 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.
- WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOOD CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE. WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE THA APPROPRIATE COLOR TO FACILITATE VISUAL INSPECTION OF THE UNIFORMLY SPREAD SLURR
- WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A MANNER THAT THE WOOD CELEULOSE FIBER MULCH WILL REMAIN IN UNIFORM SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED MULCH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER. ON

APPLICATION HAVING MOISTURE ARSORPTION AND PERCOLATION PROPERTIES

- MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL WITHOUT NHIBITING THE GROWTH OF THE GRASS SEEDLINGS. WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC
- WOFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER APPROXIMATELY 10 MILLIMETERS, DIAMETER APPROXIMATELY 1 MILLIMETER, P RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER

APPLICATION

- APPLY MULCH TO ALL SEEDED AREAS IMMEDIATELY AFTER SEEDING. WHEN STRAW MULCH IS USED, SPREAD IT OVER ALL SEEDED AREAS AT THE RATE (2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES. APPLY 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 WEIGH 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 PE

ANCHORING

- PERFORM MULCH ANCHORING IMMEDIATELY FOLLOWING APPLICATION OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS (LISTED BY PREFERENCE), DEPENDING UPON THE SIZE OF THE AREA AND A MULCH ANCHORING TOOL IS A TRACTOR DRAWN IMPLEMENT DESIGNED TO
- PUNCH AND ANCHOR MULCH INTO THE SOIL SURFACE A MINIMUM OF 2 INCHES PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER LOPES WHERE EQUIPMENT CAN OPERATE SAFELY, IF USED ON SLOPING LAND, PRACTICE SHOULD FOLLOW THE CONTOUR WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE IBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE, MIX THE WOOD ELULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD CELLULO
- FIBER PER 100 GALLONS OF WATER. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROS ERRA TAX II, TERRA MANUFACTURER. APPLICATION OF LIQUID BINDERS NEEDS T E HEAVIER AT THE EDGES WHERE WIND CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE O ASPHALT BINDERS IS STRICTLY PROHIBITED LIGHTWEIGHT PLASTIC NETTING MAY BE STAPLED OVER THE MULCH ACCORDIN O MANUFACTURER RECOMMENDATIONS, NETTING IS USUALLY AVAILABLE IN ROLLS

DEVELOPER'S/BUILDER'S CERTIFICATE

TO 15 FEET WIDE AND 300 TO 3,000 FEET LONG.

/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL

IVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF RAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFOR BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION SIGNATURE OF DEVELOPER/BUILDER DATE

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD

REVISION

PREPARED FOR & OWNER BA WATERLOO TOWNHOUSES, LLC C/O BOZUTTO HOMES, INC. 6406 IVY LANE, SUITE 700 GREENBELT, MARYLAND 20770 ATTN.: CHRIS BLOCK 301-623-3672

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. 1297

EXPIRATION DATE: MAY 26, 2018 11-9-16

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

O 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

a. SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED IN TABLE B.3 FOR THE

FOR SITES HAVING DISTURBED AREA OVER 5 ACRES, USE AND SHOW THE RATES

RECOMMENDED BY THE SOIL TESTING AGENCY.

OF THE TOTAL MIXTURE BY WEIGHT.

to 3 pounds per 1000 square feet.

RECOMMENDATIONS FOR MARYLAND"

PROTECTION AND ASSURES A PURE GENETIC LINE

IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES

SEED MIXTURE: #9 (Tall Fescue/ Kentucky Bluegrass),

1000 s.f.

. SOD: TO PROVIDE QUICK COVER ON DISTURBED AREAS (2:1 GRADE OR FLATTER).

MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.

GRASP ON THE UPPER 10 PERCENT OF THE SECTION.

DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL

SCIENTIST PRIOR TO ITS INSTALLATION:

WOULD CAUSE AIR DRYING OF THE ROOTS.

HARDINESS ZONE: 6b

*Certified Tall Fescue blend

(95% by weight): Falcon IV

Penn 1901 & Rebel Exeda

Certified Kentucky Bluegrass

Courtyard, Raven & Yankee

blend (5% by weight):

2. SOD INSTALLATION

APPROPRIATE PLANT HARDINESS ZONE (FROM FIGURE B.3) AND BASED ON THE SITE

CONDITION OR PURPOSE FOUND ON TABLE B.2. ENTER SELECTED MIXTURE(S), APPLICATION

ADDITIONAL PLANTING SPECIFICATIONS FOR EXCEPTIONAL SITES SUCH AS SHORELINES, STREAM BANKS, OR DUNES OR FOR SPECIAL PURPOSES SUCH AS WILDLIFE OR AESTHETIC

. FOR AREAS RECEIVING LOW MAINTENANCE, APPLY UREA FORM FERTILIZER (46-0-0) AT 3

ADDITION TO THE SOIL AMENDMENTS SHOWN IN THE PERMANENT SEEDING SUMMARY.

AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND

COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

SELECT ONE OR MORE OF THE SPECIES OR MIXTURES LISTED BELOW BASED ON THE SITE

KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN AREAS THAT RECEIVE

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

INTENSIVE MANAGEMENT, IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND

AND EASTERN SHORE. RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS

KENTUCKY BLUEGRASS/PERENNIAL RYE: FULL SUN MIXTURE: FOR USE IN FULL SUN

MEDIUM TO INTENSIVE MANAGEMENT, CERTIFIED PERENNIAL RYEGRASS

AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE

CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PER

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

00 SQUARE FEET. CHOOSE A MINIMUM OF THREE KENTUCKY BLUEGRASS CULTIVARS

AREAS AND/OR FOR AREAS RECEIVING LOW TO MEDIUM MANAGEMENT IN FULL SUN TO

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.

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; CERTIFIED KENTUCKY BLUEGRASS CULTIVARS 30 TO 40

PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT. SEEDING RATE: 11/2

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT UNIVERSITY

OF MARYLAND PUBLICATION, AGRONOMY MEMO #77, "TURFGRASS CULTIVAR

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF

CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER

WESTERN MD: MARCH 15 TO JUNE 1, AUGUST 1 TO OCTOBER 1 (HARDINESS ZONES: 5B,

SOUTHERN MD, EASTERN SHORE: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15

TILL AREAS TO RECEIVE SEED BY DISKING OR OTHER APPROVED METHODS TO A DEPTH OF 2

AND DEBRIS OVER 1 1/2 INCHES IN DIAMETER. THE RESULTING SEEDBED MUST BE IN

TO 4 INCHES, LEVEL AND RAKE THE AREAS TO PREPARE A PROPER SEEDBED. REMOVE

. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT

PERMANENT SEEDING SUMMARY

* Other cultivars listed as "proven" in the most current UMD TT-77 may also be used

CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED, SOD LABELS MUST BE

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

STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN

DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL,

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 OF

OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH

WHEREVER POSSIBLE, LAY SOD WITH THE LONG EDGES PARALLEL TO THE CONTOUR AND WITH

TAGGERING JOINTS. ROLL AND TAMP, PEG OR OTHERWISE SECURE THE SOD TO PREVENT

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

SLIPPAGE ON SLOPES. ENSURE SOLID CONTACT EXISTS BETWEEN SOD ROOTS AND THE

WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF

LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED

LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.

GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE

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.

SEEDING DATES

6-8 lb/ Mar. 1 to May 15, 1/4 - 1.0 lb/ 1000 90 lb/

Aug. 15 to Oct. 15 1/2 IN. s.f. 1000 s.f.

SUCH CONDITION THAT FUTURE MOWING OF GRASSES WILL POSE NO DIFFICULTY.

MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE: 6B)

FERTILIZER !

DEPTHS (10-20-20) RATE

(45 lb/acre)

LECTION DISTRICT No.

RATE LIME

SEEDING RATE: 1.5 TO 2.0 POUNDS PER 1000 SQUARE FEET. CHOOSE A MINIMUM OF

HREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35 PERCENT

1/2 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE) AT THE TIME OF SEEDING IN

TREATMENT MAY BE FOUND IN USDA—NRCS TECHNICAL FIELD OFFICE GUIDE, SECTION 342

RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE

SEED MIXTURES

TURFGRASS MIXTURES

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. 2. FOR SITES HAVING SOIL TESTS PERFORMED, USE AND SHOW THE RECOMMENDED RATES B

B-4-4 STANDARDS AND SPECIFICATIONS

FOR TEMPORARY STABILIZATION

TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS.

CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A

PÉRIÓD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION

PRACTICES ARE REQUIRED.

THE 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 B-4-3.A.1.B AND MAINTAIN

<u></u>		TEMP	ORARY SEEDING SU	MMARY		
	HARDINESS : SEED MIXTUR	FERTILIZER RATE				
No.	SPECIES	APPLICATION RATE (lb/ac.)	SEEDING DATES	SEEDING DEPTHS	(10-10-10)	LIME RATE
1	ANNUAL RYEGRASS	40 lb/ac	Mar. 1 to May 15, Aug. 1 to Oct. 15		436 lb./ac.	2 tons/ac (90 lb./
2	PEARL MILLET	20 lb/ac	May 16 to July 31	0.5 INCHES	1,000 sf)	1,000 sf)

HOWARD SOIL CONSERVATION DISTRICT (HSCD) STANDARD SEDIMENT CONTROL NOTES

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:

- 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, 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

- 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 I VERTICAL (3:1); AND SEVEN (1) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
- 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-I) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEF SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-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	:	6.72± AC.	
	AREA DISTURBED	:	7.1± AC.	
	AREA TO BE ROOFED OR PAVED	:	2.0± AC.	# For Estillation
	AREA TO BE VEGETATIVELY STABILIZED	`;	5,1± AC.	* FOR ESTIMATING PURPOSES ONLY.
	TOTAL CUT	:	35,000± CY*	CONTRACTOR TO VERIFY
	TOTAL FILL	:	35,000± CY*	ACTUAL VALUES.

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE
- 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:

*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

FF-SITE WASTE/BORROW

AREA LOCATION

SEDIMENT CONTROL, AND REVISIONS THERETO.

- *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 * PHOTOGRAPHS * MONITORING/SAMPLING * MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
- *OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION 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. IO. 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 CID PER THE LIST OF
- HSCD-APPROVED FIELD CHANGES. 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 THE CID, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME
- 12. 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.

6. A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT

STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE). * USE | AND IP MARCH | - JUNE 15 * USE III AND IIIP OCTOBER I - APRIL 30 * USE IV MARCH I - MAY 3

CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.

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 PREVENT WILTING. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT DO NOT MOW UNTIL THE SOD 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 OTHERWISE SPECIFIED.

CENTER TO CENTER 36 IN MIN. FENCE POST LENGTH DRIVEN MIN. 16 IN INTO GROUND ONSTRUCTION SPECIFICATIONS USE WOOD POSTS 1% X.1% ± 1% INCH (MINIMUM) SQUARE CUT OF SQUAD QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS, WEIGHING NO LESS THAN 1 POUND PER LINEAR POOT. 2:1 SLOPE OR FLATTER-16 IN MIN. HEIGHT OF WOVEN SLIT FILM GEOTEXTIL DIKE TYPE 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. ELEVATION a - DIKE HEIGHT 18 IN MIN. 30 IN MIN. A A A A A A A A EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACTHE SOIL ON BOTH SIDES OF FABRIC. b - DIKE WIDTH 24 IN MIN, 36 IN MIN. c - FLOW WIDTH 4 FT MIN. 6 FT MIN. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL. d - FLOW DEPTH 12 IN MIN. 24 IN MIN. FENCE POST 18 IN MIN.
-ABOVE GROUND PLAN MEW WOVEN SLIT FILM— GEOTEXTILE SEED WITH STRAW MULCH AND TACK. (NOT ALLOWED FOR CLEAR WATER DIVERSION.) A-2/8-2 SEED WITH SOIL STABILIZATION MATTING OR LINE WITH SOD. 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE PRESSED INTO SOIL A MINIMUM OF 7 INCHES AND FLUSH WITH GROUND. CONSTRUCTION SPECIFICATIONS REMOVE AND DISPOSE OF ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SO AS NOT TO INTERFERE WITH PROPER FUNCTION OF EARTHDIKE. CROSS SECTION EXCAVATE OR SHAPE EARTH-DIKE TO LINE, GRADE, AND CROSS SECTION AS SPECIFIED. BANK PROJECTIONS OR OTHER IRREGULARITIES ARE NOT ALLOWED. CONSTRUCT FLOW CHANNEL ON AN UNINTERRUPTED, CONTINUOUS GRADE, ADJUSTING THE LOCATION DUE TO FIELD CONDITIONS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE. 5. PROVIDE OUTLET PROTECTION AS REQUIRED ON APPROVED PLAN TWIST POSTS TOGETHER STABILIZE EARTH DIKE WITHIN THREE DAYS OF INSTALLATION. STABILIZE FLOW CHANNEL FOR CLEAR WATER DIVERSION WITHIN 24 HOURS OF INSTALLATION. MAINTAIN LINE, GRÁDE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS, AND MAINTAIN POSITIVE DRAINAGE. KEEP EARTH DIKE AND POINT OF DISCHARGE FREE OF EROSION, AND CONTINUOUSLY MEET REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION. UPON REMOVAL OF EARTH DIKE, GRADE AREA FLUSH WITH EXISTING GROUND. WITHIN 24 HOURS OF REMOVAL STABILIZE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED ON APPROVED PLAN. STAPLE-FENCE SECTIONS (TOP VIEW) MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL PROSION AND SEDIMENT CONTROL MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE
VATURAL RESOURCES CONSERVATION SERVICE DETAIL B-1 STABILIZED CONSTRUCTION DETAIL D-3-1 RIPRAP INFLOW PROTECTION RRP FNTRANCE MOUNTABLE BERM (6 IN MIN.) - EXISTING PAVEMENT COMPACTED EMBANKMENT -PIPE (SEE NOTE 6) GROUND SURFACE---**PROFILE** LENGTH GALVANIZED CHAIN LINK FENCE WITH-WOVEN SLIT FILM GEOTEXTILE ISOMETRIC VIEW CHAIN LINK FENCING -WOVEN SLIT FILM GEOTEXTILE -FLOW JUPY DEKK PLAN VIEW EMBED GEOTEXTILE AND -CHAIN LINK FENCE 8 IN MIN. INTO GROUND CROSS SECTION CROSS SECTION PROFILE ALONG CENTERUNI PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET. (*30 FEET FOR SINGLE RESIDENCE LOT), USE MINIMUM MOTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. INSTALL 2% INCH DIAMETER GALMANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND. 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSTITVE DRAINAGE, PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERN WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE, PROVIDE PIPE A SPECIFIED ON APPROVED PLAN, WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINA TO CONVEY, A PIPE IS NOT NECESSARY, A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT. INSTRUCTION SPECIFICATIONS 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. PROVIDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL RIPRAP. CONSTRUCT INFLOW CHANNEL WITH CLASS I RIPRAP OR EQUIVALENT RECYCLED CONCRETE LINING TO A MINIMUM DEPTH OF 19 INCHES (2 \times D₅₀) AND A 1 FOOT DEEP FLOW CHANNEL INFLOW RIPRAP PROTECTION CHANNEL MUST HAVE A TRAPEZOIDAL CROSS SECTION WITH 2:1 OR FLATTER SIDE SLOPES AND A 4 FOOT MINIMUM BOTTOM WIDTH. . 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. 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. 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. 5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT, ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MCUNTABLE BERM, AND SPECIFIED DIMENSIONS, IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING; SCRAPING, AND/OR SWEEPING, WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AM APPROVED SEDIMENT CONTROL PRACTICE. BLEND RIPRAP INTO EXISTING GROUND MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. KEEP POINTS OF INFLOW AND OUTFLOW FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BUILDES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 28% 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION U.S. DEPARTMENT OF AGRICULTURE 2011 MARYLAND DEPARTMENT OF ENVIRONMEN TURAL RESOURCES CONSERVATION SERVICE 2011 WATER MANAGEMENT ADMINISTRATION 2011 MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

-----SF----

- I. STANDARD SILT FENCE MAY BE REPLACED WITH SUPER SILT FENCE AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.). WHEN SUPER SILT FENCE IS RUNNING AT A SLOPE GREATER THEN 5% FOR A DISTANCE OVER 50' , CURL FENCE UP 2' FOR EVERY 2' OF
- 3. SEDIMENT CONTROL INSPECTOR MAY RELOCATE STABILIZED CONSTRUCTION ENTRANCES.
- 4. ANY EARTH DIKE INTERRUPTED BY THE INSTALLATION OF A STORM DRAIN IS TO BE REPAIRED IMMEDIATELY.
- 5. THE STANDARD SEDIMENT CONTROL PLAN MAY NOT BE USED TO OBTAIN GRADING PERMITS FOR THIS PROJECT
- 6. HOUSES MAY NOT BE CONSTRUCTED USING THIS PLAN.

DETAIL C-1 EARTH DIKE

STANDARD STABILIZATION NOTE:

ELEVATION CHANGE ALONG SILT FENCE.

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 I VERTICAL (3:1); AND

B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

DEFINITION

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

TO PROVIDE A DESIGNATED LOCATION FOR THE TEMPORARY STORAGE OF SOIL THAT CONTROLS THE POTENTIAL FOR EROSION, SEDIMENTATION, AND CHANGES TO DRAINAGE PATTERNS. CONDITIONS WHERE PRACTICE APPLIES

WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM STOCKPILE AREAS ARE UTILIZED WHEN IT IS NECESSARY TO SALVAGE AND STORE SOIL FOR SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD IOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL

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

- RUNOFF FROM THE STOCKPILE AREA MUST DRAIN TO A SUITABLE SEDIMENT CONTROL ACCESS THE STOCKPILE AREA FROM THE UPGRADE SIDE. CLEAR WATER RUNOFF INTO THE STOCKPILE AREA MUST BE MINIMIZED BY USE OF A DIVERSION DÉVICE SUCH AS AN EARTH DIKE, TEMPORARY SWALE OR DIVERSION FENCE PROVISIONS MUST BE MADE FOR DISCHARGING CONCENTRATED FLOW IN A NON-EROSIVE
- WHERE RUNOFF CONCENTRATES ALONG THE TOE OF THE STOCKPILE FILL. AN APPROPRIATE EROSION/SEDIMENT CONTROL PRACTICE MUST BE USED TO INTERCEPT THE STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 3/7 DAY STABILIZATION. REQUIREMENT AS WELL AS STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD R-4-4 TEMPORARY STARILIZATION IF THE STOCKPILE IS LOCATED ON AN IMPERVIOUS SURFACE. A LINER SHOULD BE

CONTAMINATED MATERIAL MUST BE COVERED WITH IMPERMEABLE SHEETING.

PROVIDED BELOW THE STOCKPILE TO FACILITATE CLEANUP. STOCKPILES CONTAINING

HE 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.

SEDIMENT CONTROL NOTES AND DETAILS

PHASE VIII

SHIPLEY'S GRANT

Lots D-151 - D-217, Open Space Lots D-218 - D-221, Common Open Space Lot D-222 & D-223

A Resubdivision of Parcel D-2 (PN: 21017) and Common Open Space Lot D-134 (PN:21720)

DETAIL D-3-2 GABION INFLOW PROTECTION GP 🔂 ISOMETRIC VIEW MALESO PROFILE ALONG CENTERLINE CROSS SECTION CONSTRUCTION SPECIFICATIONS

STANDARD SYMBOL

-----SF-------

DETAIL E-1 SILT FENCE

PROMDE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, UNDER THE BOTTOM AND ALONG SIDES OF ALL GABION BASKETS. 2. USE BASKETS MADE OF MINIMUM 11 GAUGE WIRE. CONSTRUCT GABION INFLOW PROTECTION BY ARRANGING 9 X.3 X 1 FOOT GABION BASKETS TO FORM A TRAPEZOIDAL SECTION WITH A 3 FOOT BOTTOM WIDTH, 1 FOOT MINIMUM DEPTH, 3 FOOT SIDE WALLS, AND 2:1 OR FLATTER SIDE SLOPES, FILL GABION BASKETS WITH 4 TO 7 INCH STONE OR EQUIVALENT RECYCLED CONCRETE WITHOUT REBAR OR WEIR MESH.

4. INSTALL ENTRANCE AND EXIT SECTIONS AS SHOWN ON THE PROFILE. 5. INSTALL GABIONS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS 6. BLEND GABIONS INTO EXISTING GROUND.

MAINTAIN LINE, GRADE, AND CROSS SECTION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. KEEP POINTS OF INFLOW AND OUTFLOW FREE OF EROSION. MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL 2011 WARYLAND DEPARTMENT OF ENVIRONMEN
WATER MANAGEMENT ADMINISTRATION

> THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY

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

ZONING G. L. W. FILE No. 13063 AS SHOWN R - A - 15

SHEET DATE TAX MAP - GRID 37- 1&2 HOWARD COUNTY, MARYLAND

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