GENERAL NOTES ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS THE CONTRACTOR SHALL NOTIFY THE 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. SEE VICINITY MAP IN THE TOP RIGHT CORNER OF THIS SHEET TAX MAP: ZONING: MXD-3 PER ZB-995M (APPROVED ON 02-08-01), UNDERLYING ZONING IS RR-DEO AND PER THE 2/02/04 COMPREHENSIVE ZONING PLAN AREA OF BUILDABLE LOTS (Nos. 14, 114-117, 131-136 & 151-153) FOR THIS SITE DEVELOPMENT PLAN: 1.58± ACRES. FOR OTHER SUBMISSIONS RELATED TO THIS SITE, SEE HOWARD COUNTY DEPT. OF PLANNING & ZONING FILE NOS.: 5-01-17, ZB-995M, PB-353, WP-01-III,

WP-03-02, P-03-01, F-03-90, P-04-01, P-05-02, F-04-92, S-06-16, P-01-02, ZB-1039M, PB-378, F-12-30, SDP-12-012, SDP-12-17, SDP-12-51, SDP-12-52,

TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTC). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.

ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED. DIMENSIONS ARE MEASURED PERPENDICULAR OR RADIALLY BETWEEN ITEMS UNLESS OTHERWISE NOTED.

EXISTING TOPOGRAPHY AND FEATURES COMPILED FROM F-06-161, F-08-072 & G.L.W. SURVEY DONE IN MAY/2009.

STORMWATER MANAGEMENT, FOR BOTH QUALITY AND QUANTITY, FOR THE DEVELOPMENT PROPOSED BY THESE PLANS (WHICH IS PART OF A PHASED PROJECT) WILL BE SATISFIED BY AN EXISTING REGIONAL FACILITY CONSTRUCTED UNDER F-12-30. THE EXISTING FACILITY ON OPEN SPACE LOT 87 IS PUBLICLY OWNED AND JOINTLY MAINTAINED BY THE MAPLE LAWN HOA. THE RECHARGE OBLIGATIONS FOR THESE LOTS HAVE BEEN PROVIDED BY EXISTING FACILITIES LOCATED ON OPEN SPACE LOT 85

THE EXISTING UTILITIES SHOWN HEREIN WERE DERIVED FROM AVAILABLE PUBLIC RECORDS. THE CONTRACTOR MUST DIG TEST PITS (BY HAND) AT ALL UTILITY

CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT LOCATION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS. ALL ROADS LABELED AS "PUBLIC" ARE PUBLICLY MAINTAINED ONCE THEY ARE DEDICATED. ALL ROADS LABELED AS "PRIVATE" ARE PRIVATELY MAINTAINED

THERE ARE NO GRAVE SITES, CEMETERIES, WETLANDS, 100-YR FLOODPLAIN OR STREAM ON THE BUILDABLE LOTS SHOWN ON THIS SITE DEVELOPMENT PLAN

THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION. THE FOREST CONSERVATION OBLIGATIONS WERE ADDRESSED UNDER F-11-020 F-12-030 & F-13-007

FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING (AS SHOWN ON SHEET 6 TO SATISFY S-01-17 DEVELOPMENT CRITERIA AND SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL) SHALL BE POSTED AS PART OF THE GRADING PERMIT FOR EACH LOT (WHERE APPLICABLE). FOR ADDITIONAL INFORMATION ON THE LANDSCAPE SURETY SEE SHEET 6 AND THE GRADING PERMIT CHART ON SHEET I

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 WITAR AND CHIP COATING (I-I/2"MIN.)

C. GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 45' TURNING RADIUS. D. STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING)

E. DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YR. FLOOD WITH NO MORE THAN I FOOT DEPTH OVER DRIVEWAY SURFACE. F. MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

BAY WINDOWS, WINDOW WELLS, CHIMNEYS, HEATING OR AIR CONDITIONING UNITS 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 REGULATIONS, EXCEPT FOR THE ITEMS

20. AS A CONSEQUENCE OF THE SKETCH PLAN, S-01-17 APPROYAL PRIOR TO 11-15-01, THIS PROJECT IS GRANDFATHERED TO THE FOURTH EDITION OF THE

THE TWO CAR GARAGES SHALL BE USED FOR PARKING PURPOSES ONLY AND ARE NOT PERMITTED TO BE CONVERTED TO OTHER USES IN ACCORDANCE WITH SECTION 133.D.2.a OF THE ZONING REGULATIONS AND THE APPROVED MLF DEVELOPMENT CRITERIA. UNLESS OTHERWISE PROHIBITED BY POSTED SIGNAGE OR CURB MARKING, ON-STREET PARALLEL PARKING ALONG THE CURB WITHIN THE PUBLIC RIGHTS-OF-WAY IS ALLOWED FOR VISITOR AND OVERFLOW PARKING. THE ON-STREET PARKING AREA WILL NOT BE STRIPED. THE ALLEYS ARE OWNED BY THE HOA AND THEY ENFORCE THE PARKING PROHIBITION IN THEIR ALLEY "RIGHT-OF-WAY" THAT'S IN THE COVENANT FOUND AT L. 8259 F. 305\$3

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.

MINIMUM BUILDING SETBACK RESTRICTIONS FROM PROPERTY LINES AND THE PUBLIC ROAD RIGHTS OF WAY FOR ALL SED AND SEA RESIDENTIAL LOTS WILL BE
PROVIDED IN ACCORDANCE WITH THE COMPREHENSIVE DEVELOPMENT CRITERIA APPROVED FOR THIS PROJECT UNDER 5-01-17, 5-06-16, PB-353, PB 378 AND ZB-995M.

24. PHASING FOR THIS PROJECT IS IN ACCORDANCE WITH THE DECISION AND ORDER FOR ZB-995M AND THE DECISION AND ORDER FOR PB CASE NO. 353 (S-OI-IT) AND PB CASE NO. 378 AND S-O6-I6.

LOT DEVELOPMENT DATA

PRESENT ZONING: MXD-3 PER ZB-995M

B. PROPOSED USE OF SITE: 14 SFD RESIDENTIAL DWELLINGS C. PUBLIC WATER & SEWER TO BE UTILIZED (CONTR. #24-4703-D, 24-4704 & 24-4747-D)

D. PARKING REQUIRED PER Sec.133.D.2.a.: 2 SPACES/UNIT x 14 = 28 SPACES PARKING PROVIDED: 28 GARAGE SPACES (ALL LOTS HAVE AT LEAST A 2-CAR GARAGE. SEE NOTE 21 ABOVE REGARDING PARKING).

E. RECREATION OPEN SPACE FOR THIS SDP IS ADDRESSED UNDER F-06-161 (SEE OVERALL OPEN SPACE PROVISION CHART ON THIS SHEET).

A. AREA OF BUILDABLE LOTS FOR THIS SUBMISSION: 68,759± SF OR 1.58± AC.

B. AREA OF THIS PLAN SUBMISSION: 1.88± ACRES (L.O.D.) C. AREA OF DISTURBANCE BY THIS SDP: 1.88± ACRES

3. LOT DESIGNATION:

MIN. LOT WIDTH AT FRONT BRL MAX. BUILDING HT. COTTAGE 14, 114-117, 131-136 € 151-153 2,500 SQUARE FEET

* EXCEPT FOR LOTS IDENTIFIED ON AMENDED CSP, WHICH SHALL NOT BE LESS THAN 100' AT FRONT BRL

STRUCTURE SETBACKS PER 5-06-16 AND PLAT Nos 21856-21860 & 21994-22001 LOT TYPE FRONT SETBACK SIDE SETBACK MINIMUM REAR SETBACKS

20' TO PRINCIPAL STRUCTURE. 3' FOR REAR (DETACH/ATTACH) GARAGE OR TO ACCESSORY STRUCTURES.

** THERE IS NO SIDE SETBACK (O') FOR A GARAGE.

A. A ZERO LOT LINE DWELLING UNIT MAY BE LOCATED ON ANY PROPERTY LINE WHICH IS NOT A STREET RIGHT-OF-WAY PROVIDED THAT (I) NO PART OF THE DWELLING SHALL ENCROACH ONTO THE ADJOINING LOT: (2) AN ACCESS EASEMENT FOR THE PURPOSE OF MAINTENANCE TO THE SIDE OF THE STRUCTURE SHALL BE INCLUDED IN THE DEED WHERE APPROPRIATE. SPACING BETWEEN DWELLING UNITS SHALL BE A MINIMUM OF 8'. GARAGES HOWEVER, MAY ADJOIN ALONG THE PROPERTY LINE, PROVIDED THEY COMPLY WITH ALL BUILDING AND FIRE CODE REGULATIONS.

OPEN DECKS MUST BE A MINIMUM OF 10' FROM REAR PROPERTY LINE, AND ARE SUBJECT TO SIDE YARD SETBACKS.

C. FACING ACCESSORY STRUCTURES AND DETACHED GARAGES (ACROSS AN ALLEY/LANE R.O.W.) SHALL BE 30' APART.

D. EXCEPTIONS TO FRONT SETBACK REQUIREMENTS. SECTION 128.A.I APPLIES, EXCEPT FOR THE FOLLOWING • PORCHES MAY ENCROACH INTO THE FRONT YARD TO WITHIN 2' FROM THE FRONT PROPERTY LINE OR RIGHT-OF-WAY FOR COTTAGES, MANORS, AND VILLAS. TO WITHIN 12' FOR ESTATES. PORCHES MAY ENCROACH INTO THE SIDE YARD OF CORNER LOTS TO WITHIN 2' FROM THE RIGHT-OF-WAY FOR

TO WITHIN I' FROM THE SIDE PROPERTY LINE FOR COTTAGES, MANORS, AND VILLAS, TO WITHIN 12' FOR ESTATES. STOOPS AND STEPS MAY ENCROACH INTO THE FRONT AND SIDE YARDS TO WITHIN I' FROM THE FRONT PROPERTY LINE.

 GARDEN WALLS, FENCES, PIERS, GATES AND SIMILAR ORNAMENTS MAY BE BUILT IN THE FRONT AND SIDE YARDS NOT CLOSER THAN I' FROM THE FRONT PROPERTY LINE (WALL FOOTING MUST BE OUTSIDE ANY EASMENTS); NOT GREATER THAN 48" IN HEIGHT ALONG THE FRONT PROPERTY LINE AND NOT GREATER THAN 72" IN HEIGHT ALONG THE SIDE AND REAR PROPERTY LINES.

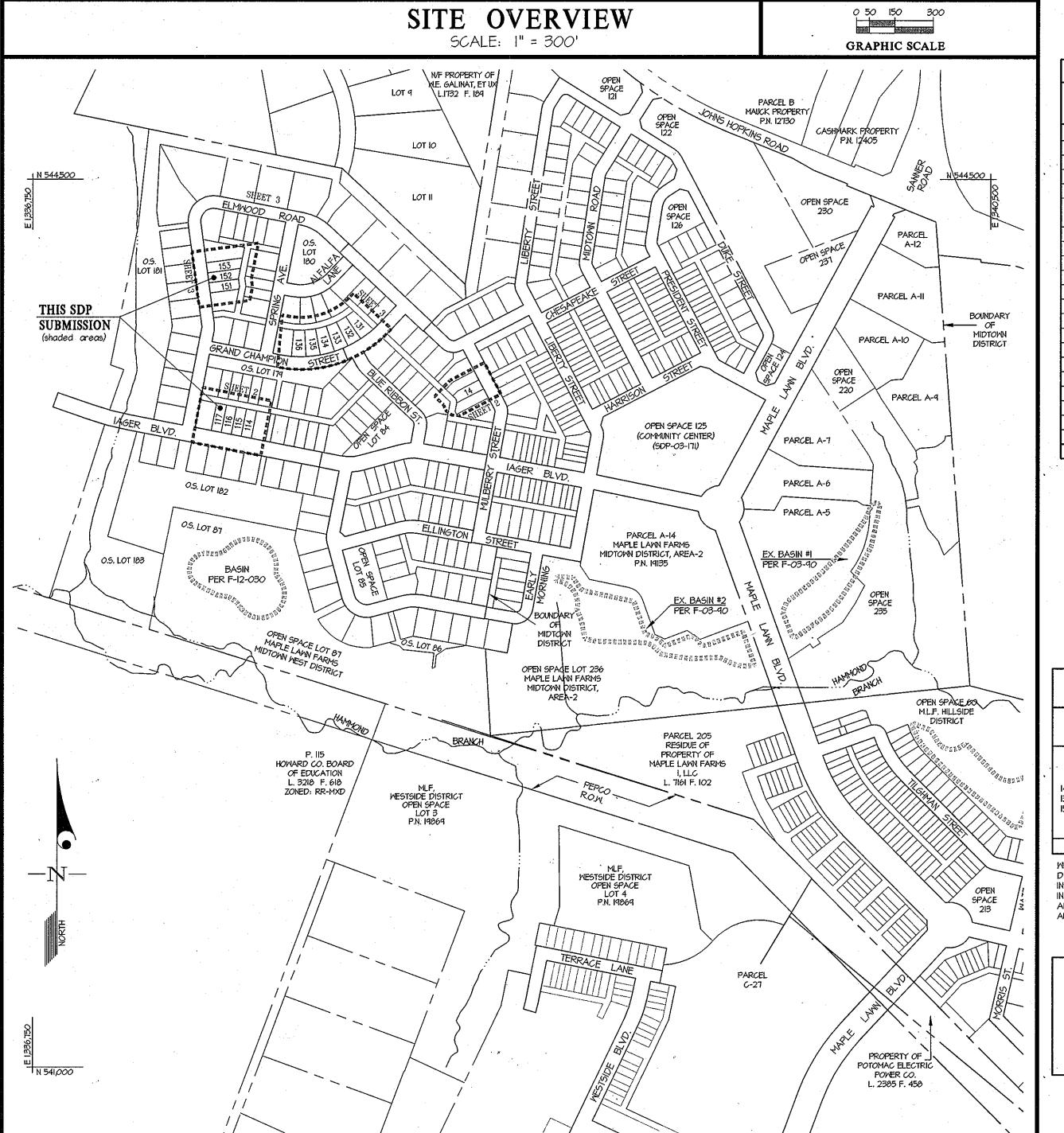
COTTAGES, MANORS, AND VILLAS, TO WITHIN 12' FOR ESTATES. WHERE A SIDE YARD ABUTS AN OPEN SPACE OR PASSAGE, PORCHES MAY ENCROACH

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING nief, Division of Land Development Chief, Development Engineering Division

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12475, EXPIRATION DATE: MAY 26, 2014

MAPLE LAWN FARMS SITE DEVELOPMENT PLAN

MIDTOWN WEST DISTRICT AREA 1: LOT 14 AREA 2: LOT NOS. 114-117, 131-136 & 151-153 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

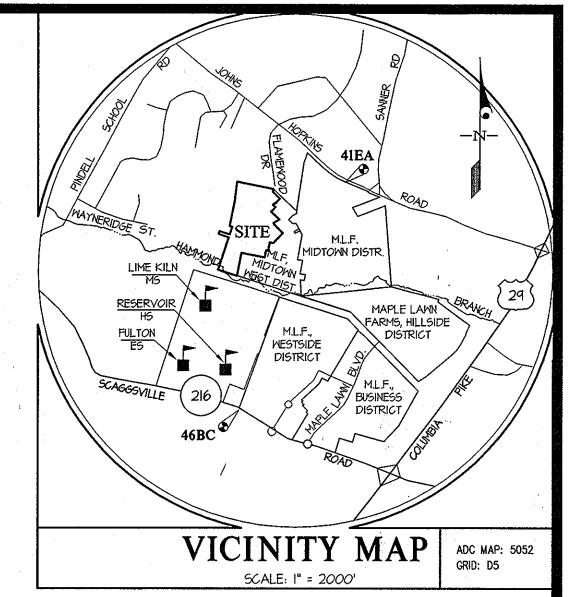


HOWARD COUNTY CONTROI

NAD83 HORIZONTAL DATA & NVD88 VERTICAL DATA

ELEV. = 472.16 N = 539,925.13 E=1,337,205.77 STANDARD DISC ON CONCRETE MONUMENT

> ELEV. = 407.05 N = 544,825.81 E= 1,339,217.44 STANDARD DISC ON CONCRETE MONUMENT



OVERAL	L OPEN SP	ACE PROV	ISION FOR	MAPLE L	AWN FARMS				
PHASE NUMBER (AND NAME)	APPROVED DPZ FILE No.	PHASE AREA GROSS ACREAGE	REQUIRED OPEN SPACE (35% OF GROSS AC.)	OPEN SPACE PROVIDED IN AC. (%) *	REQUIRED ACTIVE OPEN SPACE IN AC.**	ACTIVE RECREATION O.S. PROVIDED IN AC. (%) ***			
I (BUSINESS DISTRICT, AREA-I)	F-03-01	51.98	18.19	21.15 (40.7)	1.82				
2 (MIDTOWN DISTRICT, AREA-I)	F-03-90	37.43	13.10	15.75 (42.1)	1.31	1.52 (47.7)①			
3 (MIDTOWN DISTRICT, AREA-2)	F-04-92	58.80	20.58	22.85 (38.9)	2.06				
4a (HILLSIDE DISTRICT, AREA-I)	F-05-81	15.47	5.41	6.70 (43.3)	0.54	0.29 (4.3) ②			
46 (MIDTOWN DISTRICT, AREA-3)	F-05-134	3.12	1.09	1.23 (39.4)	0.11				
4c (BUSINESS DISTRICT, AREA-2/ HILLSIDE DISTRICT, AREA-2)	F-05-II2/II3	3.00	1.05	0.00	0.11				
5a (HILLSIDE DISTRICT, AREA-I)	F-06-43	0.00	0.00	0.00	0.00				
56 (HILLSIDE DISTRICT, AREA-3)	F-06-161	33.26	11.64	18.50 (55.6)	1.16	1.61 (8.7)			
6a (HILLSIDE DISTRICT, AREA-4)	F-08-072	15.05	5.27	5.50 (36.5)	0.53				
N/A	F-07-183	3.05	1.01	0.00	0.10	,			
66 (WESTSIDE DISTRICT)	F-08-54/F-08-55	90.60	31.71	26.65 (29.4)	3.17	4.76 (17.9) ③ ;			
7 (HILLSIDE DISTRICT, AREA-5)	F-10-61	16.60	5.81	0.94 (5.7)	0.58				
8a (HILLSIDE DISTRICT, AREA-5)	F-II-27	0.00	0.00	0.20 (0.0)	0.00				
86 (WESTSIDE DISTRICT, AREA-2)	F-12-21	0.00	0.00	0.67 (0.0)	0.00	0.67 (100) ④			
& (MIDTOWN WEST DISTRICT)	F-I2-20	1.65	0.58	0.09 (5.5)	0.06				
& (MIDTOWN WEST DISTRICT)	F-12-29	30.22	10.58	13.59 (44.9)	1.06	1.29 (9.5) ⑤			
N/A	F-I2-I5	9.37	3.28	0.00 (0.0)	0.33	0.00 (0.0)			
96 (WESTSIDE DISTRICT, AREA-3)	F-13-03	0.00	0.00	0.69 (0.0)	0.00	0.69 (100)			
9c (MIDTOWN WEST DISTRICT, AREA-2)	F-13-07	34.08	11.93	13.59 (39.9)	1,19	5.05 (31.1) ①			
9d	F-13-08	75.79	26.53	0.00 (0.0)	2.65	0.00 (0.0)			
n/a	F-12-86	15.46	5.41	3.74 (24.2)	0.54	0.00 (0.0) 🕲			
TOTAL		494.93	173.23	151.84 (30.7)	17.32	21.87 (14.4)			

* THE PERCENTAGE OF OPEN SPACE PROVIDED IS BASED ON THE GROSS SITE ACREAGE. ** IO% OF THE OPEN SPACE REQUIRED MUST BE AVAILABLE FOR ACTIVE RECREATION.

*** THE PERCENTAGE OF ACTIVE RECREATION O.S. PROVIDED IS BASED ON THE O.S. PROVIDED (CUMULATIVE TOTAL ACREAGE). 7.52 AC. = COMMUNITY CENTER (O.S. 125 - 5.01 AC.), O.S. 126 (O.55 AC.) AND O.S. 230 (1.96 AC.)

② 0.29 AC. = PATHWAYS 3 4.76 AC. = 05 LOT 4 (4.76 AC.)

(4) 0.67 ACRES = 05 Lot 68 (0.67 Ac.)

(5) 1.29 ACRES = OS Lot 85 (0.63 Ac.), and OS Lot 84 (0.66 Ac.)

(6) 0.69 ACRES = 05 115 (0.69 Ac.)

(7) 5.05 AREAS = 05 179 (0.73 Ac.), 05 180 (0.74 ∞), 05 182 (3.58) (8) 3.74 Ac. = 05 3 (3.74 Ac.)

OPEN SPACE LOTS 126 AND 230 ARE CONSIDERED RECREATIONAL SINCE RESIDENTS WILL BE ABLE TO GATHER AND CHILDREN WILL BE ABLE TO PLAY IN THESE AREAS.

			<u> </u>			
THIS PLAN HAS BEEN SET UP TO ALLOW MULTIPLE GRADING PERMITS IN ACCORDANCE WITH THE APPLICABLE POLICY FOR MLF.						
LOT GROUPS	DISTURBED AREA (Ac.)	LANDSCAPE SURETY AMOUNT	LANDSCAPE INSPECTION FEES PAID			
4, 4- 17, 3 - 36	1,88±	\$9,I5O.OO	\$I3T.25			
TOTAL	1.88±	\$9,150.00	\$137.25			

WITHIN I YEAR OF SIGNATURE APPROVAL OF THIS SOP BY THE DIRECTOR OF DPZ, THE BUILDER SHALL APPLY TO THE DEPT. OF INSPECTIONS, LICENSES AND PERMITS FOR BUILDING PERMITS TO INITIATE THE CONSTRUCTION ON THIS SDP. THE BUILDER SHALL APPLY FOR BUILDING PERMITS FOR ALL CONSTRUCTION AUTHORIZED ON THIS SDP WITHIN 5 YEARS OF ITS APPROVAL.

SHEET INDEX SITE DEVELOPMENT PLAN SITE DEVELOPMENT PLAN SEDIMENT CONTROL PLAN SEDIMENT CONTROL NOTES and DETAILS

LANDSCAPE PLAN LANDSCAPE PLAN

COVER SHEET

ADDRESS	CHAR	T
STREET ADDRESS		STREET ADDRESS
7614 MULBERRY STREET		7810 GRAND CHAMPION STREET
	132	7812
II472 IAGER BOULEVARD	133	7814
11474	134	7816
11476	135	7818
11478	136	7820
	151	7773 ELMWOOD ROAD
	152	ודוד
	153	7769
	STREET ADDRESS 7614 MULBERRY STREET 11472 IAGER BOULEVARD 11474 11476 11478	7614 MULBERRY STREET 131 132 11472 IAGER BOULEVARD 133 11474 134 11476 135 11478 151 151 152

PERMIT INFORMATION CHART										
WATER CODE: E2I				SEWER CODE: 7695000	s.					
DEVELOPMENT NAME: MAPLE LAWN FARMS				DISTRICT/AREA TOWN WEST District AREAs \$ 2	14 (Are 114-117,	OTS a 1)/ 131-136 & (Area 2)	CENSUS TRACT 6051.02			
PLAT 16764, 21994-22001 \$ 22398-22405	ZONE MXD-3	TAX MAP	GRID 15 & 21	ELEC. DIST. 5	, ,					
				ZONING	54 12	G. L. W. FILE No.				
		AS SH	HOWN	MXD-3		1	3032			
		DA.	TF	TAX MAP -	GRID		SHEET			

HOWARD COUNTY, MARYLAND

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 ..04001\06013\SDP-SFD\HILLSIDE-Area 5\06013-CS (Area5).dwa | DES. mbt | DRN, klp

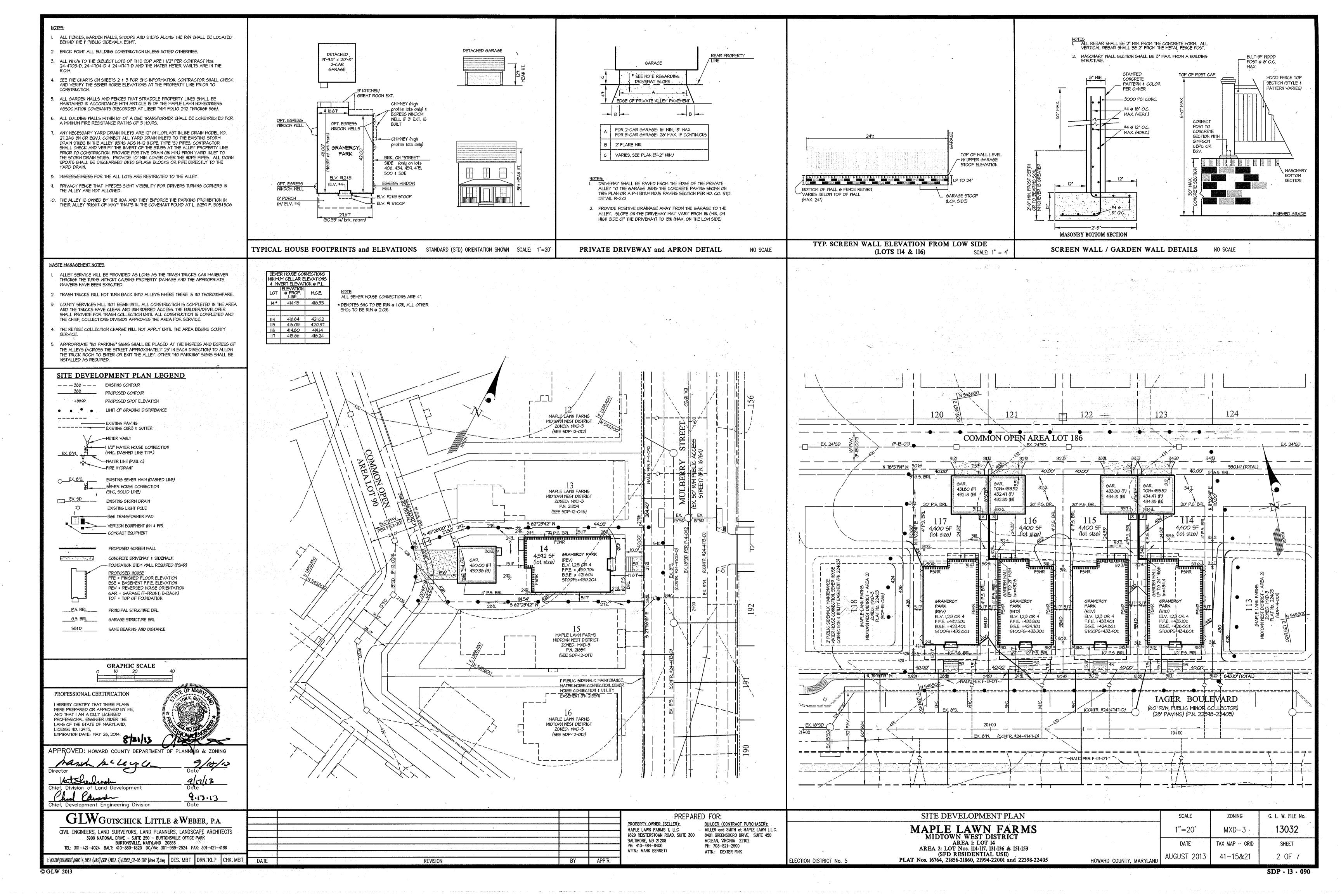
PROPERTY OWNER (SELLER): MAPLE LAWN FARMS 1, LLC 1829 REISTERSTOWN ROAD, SUITE 300 BALTIMORE, MD 21208 PH: 410-484-8400 ATTN.: MARK BENNETT

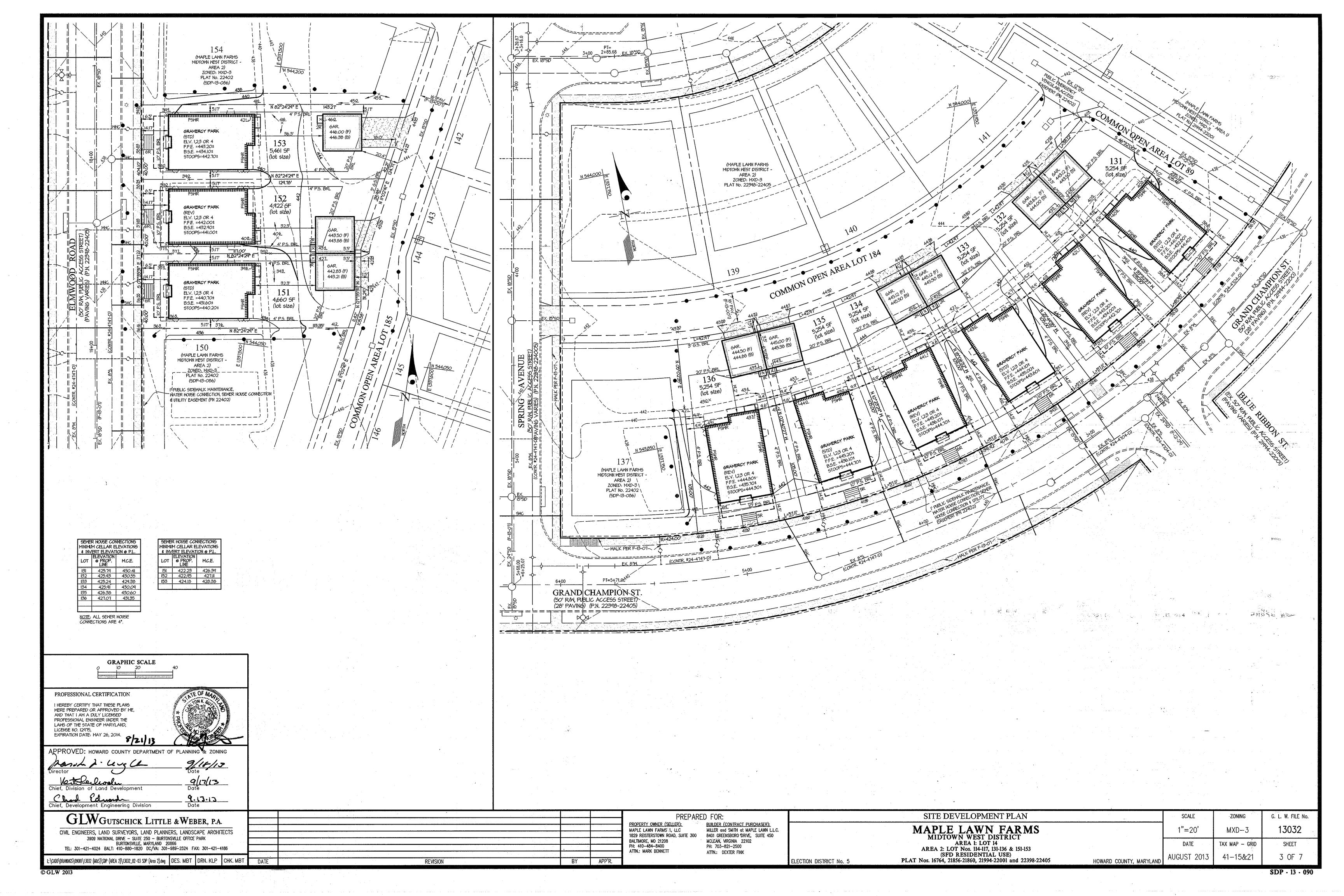
BY

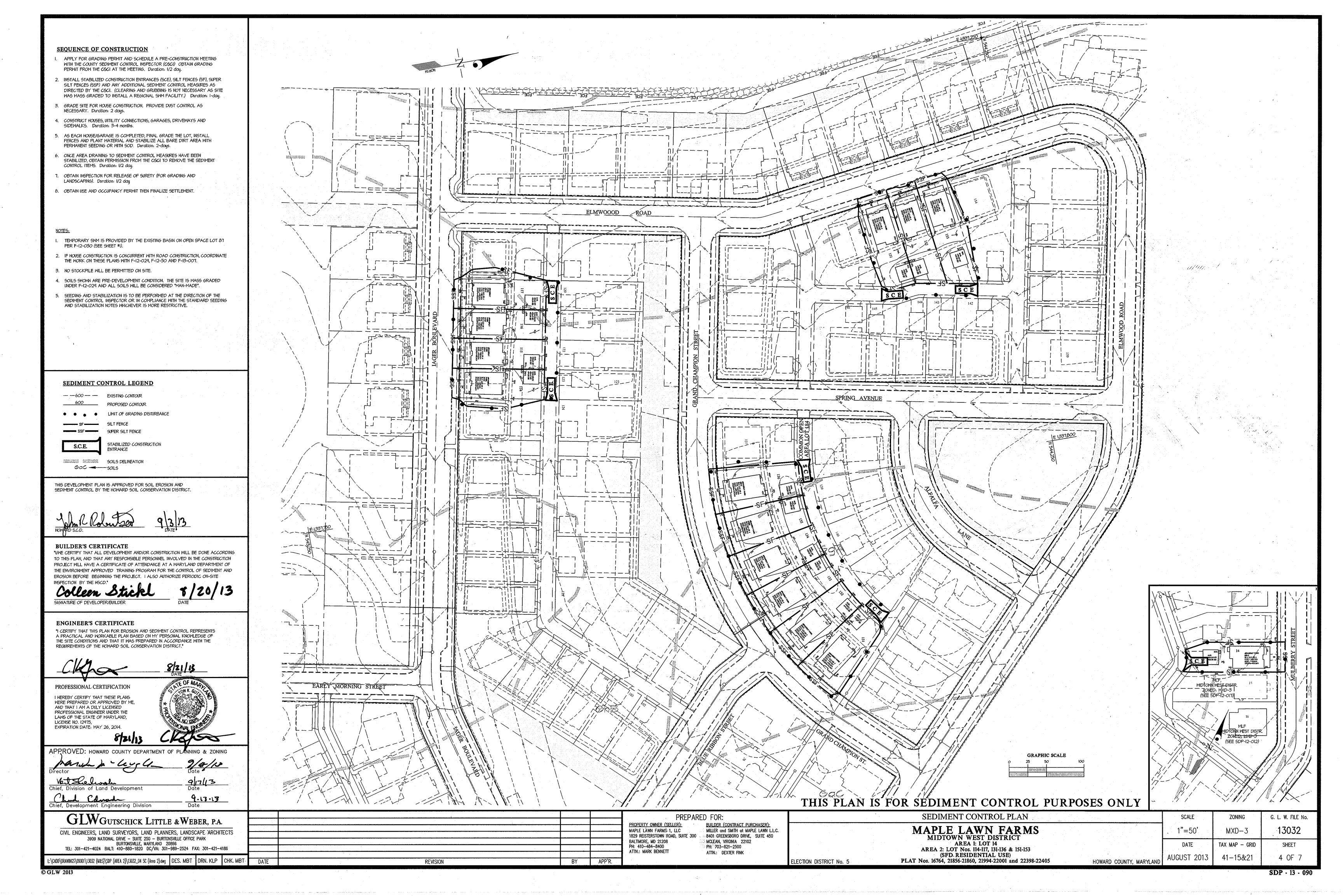
PREPARED FOR: **BUILDER (CONTRACT PURCHASER):** MILLER and SMITH at MAPLE LAWN L.L.C. 8401 GREENSBORO DRIVE, SUITE 450 MCLEAN, VRGINIA 22102 PH: 703-821-2500 ATTN.: DEXTER FINK

ELECTION DISTRICT No. 5

MAPLE LAWN FARMS MIDTOWN WEST DISTRICT AREA 1: LOT 14 AREA 2: LOT Nos. 114-117, 131-136 & 151-153 (SFD RESIDENTIAL USE) PLAT Nos. 16764, 21856-21860, 21994-22001 and 22398-22405







B-4-2 STANDARD AND SPECIFICATIONS FOR SOIL AND SOIL AMENDMENTS TAIN ADEQUATE VEGETATIVE STABILIZATION. UM FOR VEGETATIVE GROWTH. RACTICE APPLIES on is to be established. . TO A DEPTH OF 3 TO 5 INCHES BY MEANS OF TER THE SOIL IS LOOSENED, IT MUST NOT BE IGHENED CONDITION. SLOPES 3:1 OR FLATTER ARE THE CONTOUR OF THE SLOPE. TO 5 INCHES OF SOIL BY DISKING OR OTHER ANCE OF 5 ACRES OR MORE. THE MINIMUM SOIL ESTABLISHMENT ARE: ION (PPM). IT ENOUGH FINE GRAINED MATERIAL (GREATER THAN PACITY TO HOLD A MODERATE AMOUNT OF PLANTED, THEN A SANDY SOIL (LESS THAN 30 IATTER BY WEIGHT. IT ADEQUATE ROOT PENETRATION. RED IF ON-SITE SOILS DO NOT MEET THE ABOVE DEVEN GRADE AS SPECIFIED ON THE APPROVED a depth of 3 to 5 inches. PROVED PLAN OR AS INDICATED BY THE RESULTS S OF SOIL BY DISKING OR OTHER SUITABLE MEANS. VE LARGE OBJECTS LIKE STONES AND BRANCHES EN SURFACE SOIL BY DRAGGING WITH A HEAVY ACE WHERE SITE CONDITIONS WILL NOT PERMIT OR FLATTER WITH TRACKED FOUIPMENT LEAVING RUNNING PARALLEL TO THE CONTOUR OF THE SE AND FRIABLE. SEEDBED LOOSENING MAY BE TO ESTABLISHMENT OF PERMANENT VEGETATION UM FOR VEGETATIVE GROWTH. SOILS OF CONCERN .S, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR USED PROVIDED IT MEETS THE STANDARDS AS SET PTH OF TOPSOIL TO BE SALVAGED FOR A GIVEN SOIL PROFILE SECTION IN THE SOIL SURVEY LATTER SLOPES WHERE: ATERIAL IS NOT ADEQUATE TO PRODUCE VEGETATIVE ING ZONE IS NOT DEEP ENOUGH TO SUPPORT TURE AND PLANT NUTRIENTS. TONE IS NOT FEASIBLE. SPECIAL CONSIDERATION AND DESIGN. SOIL MUST MEET THE FOLLOWING CRITERIA: A, SILT LOAM, SANDY CLAY LOAM, OR LOAMY SANI ANT PARTS SUCH AS BERMUDA GRASS, QUACK THISTLE, OR OTHERS AS SPECIFIED. ENDED BY A QUALIFIED AGRONOMIST OR SOIL PROVAL AUTHORITY, MAY BE USED IN LIEU OF AYER AND LIGHTLY COMPACT TO A MINIMUM ormed in such a manner that sodding or DESCRING OR OTHER OPERATIONS MUST BE OF DEPRESSIONS OR WATER POCKETS. SUBSOIL IS IN A FROZEN OR MUDDY CONDITION INDITION THAT MAY OTHERWISE BE DETRIMENTAL TO EXACT RATIOS AND APPLICATION RATES FOR BOTH AREAS OF 5 ACRES OR MORE. SOIL ANALYSIS MAY MERCIAL LABORATORY. SOIL SAMPLES TAKEN FOR HEMICAL ANALYSES. MAY BE SUBSTITUTED FOR FERTILIZER WITH PRIOR ORITY. FERTILIZERS MUST ALL BE DELIVERED TO CABLE LAWS AND MUST BEAR THE NAME, TRADE RATED OR BURNT LIME MAY BE SUBSTITUTED LEAST 50 PERCENT TOTAL OXIDES (CALCIUM OXIDE IND TO SUCH FINENESS THAT AT LEAST 50 ND 98 TO 100 PERCENT WILL PASS THROUGH A ED AND INCORPORATED INTO THE TOP 3 TO 5 EANS, WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC LIMESTONE AT THE AT THE RATE OF 4 TO 8 FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. IMENT OF PLANNING & ZONING LITTLE &WEBER, P.A.

TO PROVIDE A SUITABLE SOL MEDIUM FOR MEGLIAITIKE GROWTH. CONDITIONS WHERE PRACTICE APPLIES WHERE VEGETATIVE STABILIZATION IS TO BE ESTABLISHED. CRITERIA A. SOL PEPEARATION 1. TEMPORARY STABILIZATION 3. SECRET PERPARATION CONSISTS OF LOCKSHIMM SUPL 10. A REPTH 07.5 TO 5. INCIRES BY 12. STABLES ARROUNDED OF CONSTRUCTION EQUIPMENT, SOLD A BERTH 07.5 TO 6. INCIRES BY 12. STABLES ARROUNDED OF CONSTRUCTION EQUIPMENT, SOLD A BERTH 07.5 TO 6. INCIRES BY 17. STABLES ARROUNDED OF CONSTRUCTION EQUIPMENT, SOLD A BERTH 07.5 TO 6. INCIRES BY 17. STABLES ARROUNDED OF CONSTRUCTION EQUIPMENT, SOLD BY 10. SOLD SOLD SOLD SOLD SOLD SOLD SOLD SOLD	l	THE PROCESS OF PREPARING THE SOILS T		EGETATIVE STABILIZATI
CRITERIA A. SOR PREPARATION I. TUROCORAY STABILIZATION SEEDING PEPARATION CONSISTS OF LOSSINING SUIL TO A DEPTH OF 3 TO 5 INCHES BY STABILIZATION SEEDING PEPARATION CONSISTS OF LOSSINING SUIL TO A DEPTH OF 3 TO 5 INCHES BY STABILIZATION SEEDING PEPARATION CONSISTS OF LOSSINING SUIL TO A DEPTH OF 3 TO 5 INCHES BY STABILIZATION SEEDING PEPARATION CONSISTS OF LOSSINING SUIL TO THE REPORT OF SUID SERVICE OF PROPERTY OF THE PROPERTY OF LOSSINING SUPERIOR OF CONSISTS OF THE REPORT OF LOSSING SUIL TO SUIL THE REPORT OF SUIL BY DISCHING SUIL TO SUIL BY DISCHING SUIL TO SUIL THE SUIL THE SUIP SUIL TO SUIL THE SUIP SUIL THE SUI	j		<u>Purpose</u> Il medium for vegetati	VE GROWTH.
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OF A SOUL TEST. 6. MIX SOIL AMENDMENTS INTO THE TOP 3 TO 5 INCHES OF SOIL BY DISKING OR OTHER SUITA RAKE LAWN AREAS TO SUCOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND AND READY THE AREA FOR SEED APPLICATION. LOSSEN SURFACE SOIL BY DRAGGING WITH CHAN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE SOIL BY DRAGGING WITH CHAN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE SOIL BY DRAGGING WITH NORMAL SEDDED PREPARATION. TRACK SLOPES 3:1 OR PLATTER WITH TRACKED EQUIPMENT THE SOIL IN AN IRREGULAR COMDITION WITH SOIS RUMBING PARALLE. SEEDBED LOOSENING UNNECESSARY ON NEWLY DISTURBED AREAS. 8. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VE THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VECETATIVE GROWTH. SOILS OF HAVE LOW MOSITURE CONTENT, LOW MUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLAN UNACCEPTABLE SOIL GRADATION. 2. TOPSOIL SALVAGED FROM AN EXISTING EMAY BE USED PROVIDED IT MEETS THE STANDA FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROVIDED IT MEETS THE STANDA FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROVIDED IT MEETS THE STANDA FOR HUMBLE BY USDA-ANEXS. 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: 4. THE IEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE GROWTH. 5. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROCOTING ZONE IS NOT DEEP ENOUGH TO SU PLANTS OR FURINGSH CONTINUING SUPPLIES OF MOSTING AND PLANT IS OFT PEASES. 6. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC OP PLANT GROWTH. 6. THE SOIL MATERIAL IS SO SHALLOW THAT THE AIRCRIFE IS THAT USED THE FELLOWING CRITER 7. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC OF PLANT GROWTH. 6. THE SOIL SEALCH SHALLOW SOIL TO BE SECRED TO SOIL TO PLANT GROWTH. 7. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS ANTERIAL TOXIC OF PLANT GROWTH. 8. TOPSOIL MUST BE A LOAM, SANDY LAWNS	¢.			
RAKE LAWN AREAS TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND AND READY THE AREA FOR SEED APPCAINED, LOSS NUFFACE SURF OR TORGONG WITH CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT MORAL SEDEBED PERPARATION. TRACK SLOPES 3.1 OR FLATTER WITH TRACKED EQUIPMENT THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF SLOPE. LEAVE THE TOP 1 TO 3 INCHES SLOPES 3.1 OR FLATTER WHIT TRACKED EQUIPMENT THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF UNINECESSARY ON NEWLY DISTURBED AREAS. 8. TOPSOILING 1. TOPSOIL IS PLACED OVER PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VET THE PURPOSE IS TO PROVIDE A SUITABLE SOIL MEDIUM FOR VECETATIVE GROWTH SOILS OF HAVE LOW MOISTURE CONTENT. LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLAN UNACCEPTABLE SOIL GRADATION. 2. TOPSOIL SALVAGED FROM AN EXISTING SITE MAY BE USED PROVIDED IT MEETS THE STANDAFORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED FOR SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SUB-RIVEY AND THE MET SOIL SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE GROWTH. 3. TOPSOILING IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE: 4. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE GROWTH. 5. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEED ENOUGH TO SUPLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT NUTRIENTS. 6. THE SOIL MATERIAL IS SO SHALLOW THAT THE REMEMBENCE BY AN AGRONOMIST OR SOIL SOLETIST AND APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR IN THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST MEET THE FOLLOWING CRITER OTHER SOILS SO ADDITE THAT TERMEMBENDED BY AN AGRONOMIST OR SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	đ.		HE APPROVED PLAN OR	as indicated by the
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 a. TOPSOIL MUST BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, OR OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND BY THE APPROPRIATE APPROVAL AUTHORITY. TOPSOIL MUST NOT BE A MIXTURE OF CONTRY TEXTURED SUBSOILS AND MUST CONTAIN LESS THAN 5 PERCENT BY VOLUME OF CINCERS, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER INCHES IN DIAMETER. b. TOPSOIL MUST BE FREE OF NOXIOUS PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, GRASS, JOHNSON GRASS, NUT SEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED. c. TOPSOIL SUBSTITUTES OR AMENDMENTS, AS RECOMMENDED BY A QUALIFIED AGRONOMIST OF SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY, MAY BE USED IN LINATURAL TOPSOIL. d. TOPSOIL APPLICATION d. EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED WHEN APPLYING TOPSOIL IN INFORMLY DISTRIBUTE TOPSOIL IN A 5 TO 8 INCH LAYER AND LIGHTLY COMPACT TO A MIN THICKNESS OF 4 INCHES. SPREADING IS TO BE PERFORMED IN SUCH A MANNER THAT SODD SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL SOIL PREPARATION AND TILLAGE. A IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS MUST CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. c. TOPSOIL MUST NOT BE PLACED IF THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDLY COWNER THE SUBSOIL IS EXCESSIVELY WET OR IN A CONDITION THAT MAY OTHERWISE BE DET PROPER GRADING AND SEEDBED PREPARATION. C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS) 1. SOIL TESTS MUST BE PERFORMED TO DETERMINE THE EXACT RATIOS AND APPLICATION RATE LIME AND FERTILIZER ON SITES HAVING DISTURBED AREAS OF 5 ACRES OR MORE. SOIL AND BE PERFORMED BY A RECOGNIZED PRIVATE OR COMMERCIAL LABORATORY. SOIL SAMPLES TO ENGINEERING PURPOSES MAY ALSO BE USED FOR CHEMICAL ANALYSES. c. FERTILIZERS MUST BE GENORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR ACCURA APPUCAL TION BY APPROPRIATE EQUIPMENT. MANURE MAY BE SUBSTITU				•
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B-4-3 STANDARDS AND SPECIFICATIONS FOR **B-4-4 STANDARDS AND SPECIFICATIONS** FOR TEMPORARY STABILIZATION SEEDING and MULCHING DEFINITION <u>DEFINITION</u> THE APPLICATION OF SEED AND MULCH TO ESTABLISH VEGETATIVE COVER. TO STABILIZE DISTURBED SOILS WITH VEGETATION FOR UP TO 6 MONTHS.

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

NOT UNDER ACTIVE GRADING

CRITERIA

SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW

ALL SEED MUST BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY

ALL SEED USED MUST HAVE BEEN TESTED WITHIN THE 6 MONTHS IMMEDIATELY

PRECEDING THE DATE OF SOWING SUCH MATERIAL ON ANY PROJECT, REFER 1

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 RA

ONLY IF THE GROUND IS FROZEN. THE APPROPRIATE SEEDING MIXTURE MUST BE

INCORPORATE SEED INTO THE SUBSOIL AT THE RATES PRESCRIBED ON

TEMPORARY SEEDING TABLE B.1, PERMANENT SEEDING TABLE B.3, OR

WEIGHTED ROLLER TO PROVIDE GOOD SEED TO SOIL CONTACT.

D. DRILL OR CULTIPACKER SEEDING: MECHANIZED SEEDERS THAT APPLY AND COVER

CULTIPACKING SEEDERS ARE REQUIRED TO BURY THE SEED IN SUCH A

HYDROSEEDING: APPLY SEED UNIFORMLY WITH HYDROSEEDER (SLURRY INCLUDES

FASHION AS TO PROVIDE AT LEAST 1/4 INCH OF SOIL COVERING. SEEDBED

APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY

i. IF FERTILIZER IS BEING APPLIED AT THE TIME OF SEEDING, THE APPLICATION RATES SHOULD NOT EXCEED THE FOLLOWING: NITROGEN, 100 POUNDS PER ACRE

TOTAL OF SOLUBLE NITROGEN; P205 (PHOSPHOROUS), 200 POUNDS PER ACRE;

II. LIME: USE ONLY GROUND AGRICULTURAL LIMESTONE (UP TO 3 TONS PER ACF

iii. MIX SEED AND FERTILIZER ON SITE AND SEED IMMEDIATELY AND WITHOUT

STRAW CONSISTING OF THOROUGHLY THRESHED WHEAT, RYE, OAT, OR BARLEY AN REASONABLY BRIGHT IN COLOR. STRAW IS TO BE FREE OF NOXIOUS WEED SEEDS

DECAYED, OR EXCESSIVELY DUSTY. NOTE: USE ONLY STERILE STRAW MULCH IN

. WOOD CELLULOSE FIBER MULCH (WCFM) CONSISTING OF SPECIALLY PREPARED WOO!

III. WCFM MATERIALS ARE TO BE MANUFACTURED AND PROCESSED IN SUCH A

MUICH MATERIAL MUST FORM A BLOTTER-LIKE GROUND COVER. ON

WCFM MATERIAL MUST NOT CONTAIN ELEMENTS OR COMPOUNDS AT

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

MULCH TO ACHIEVE A UNIFORM DISTRIBUTION AND DEPTH SO THAT THE SOIL

OF 2 TONS PER ACRE TO A UNIFORM LOOSE DEPTH OF 1 TO 2 INCHES, APPLY

SURFACE IS NOT EXPOSED. WHEN USING A MULCH ANCHORING TOOL, INCREASE TO

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

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. THIS PRACTICE IS MOST EFFECTIVE ON LARGE AREAS, BUT IS LIMITED TO FLATTER SLOPES WHERE EQUIPMENT CAN OPERATE SAFELY. IF USED ON SLOPING LAND,

FIBER BINDER AT A NET DRY WEIGHT OF 750 POUNDS PER ACRE. MIX THE WOOD

ii. SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRO-TACK), DCA-70, PETROSET, TERRA TAX II, TERRA MANUFACTURER. APPLICATION OF LIQUID BINDERS

CATCHES MULCH, SUCH AS IN VALLEYS AND ON CRESTS OF BANKS. USE OF ASPHALT BINDERS IS STRICTLY PROHIBITED.

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

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."

CELLULOSE FIBER WITH WATER AT A MAXIMUM OF 50 POUNDS OF WOOD

WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. APPLY THE

WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDLINGS.

CONCENTRATION LEVELS THAT WILL BE PHYTO-TOXIC.

HOLDING CAPACITY OF 90 PERCENT MINIMUM.

APPLICATION RATE TO 2.5 TONS PER ACRE.

HIS PRACTICE SHOULD FOLLOW THE CONTOUR.

CELLULOSE FIBER PER 100 GALLONS OF WATER.

NEEDS TO BE HEAVER AT THE EDGES WHERE WIND

PER 100 GALLONS OF WATER.

PROFESSIONAL CERTIFICATION

HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT HAM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 12975, EXPIRATION DATE: MAY 26, 2014.

ENGINEER'S CERTIFICATE

AND MUST COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL

WCFM IS TO BE DYED GREEN OR CONTAIN A GREEN DYE IN THE PACKAGE

WCFM, INCLUDING DYE, MUST CONTAIN NO GERMINATION OR GROWTH INHIBITING

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

APPLICATION, HAVING MOISTURE ABSORPTION AND PERCOLATION PROPERTIES

WCFM MUST CONFORM TO THE FOLLOWING PHYSICAL REQUIREMENTS: FIBER

APPROXIMATELY 10 MILLIMETERS. DIAMETER APPROXIMATELY 1 MILLIMETER. PH RANGE OF 4.0 TO 8.5, ASH CONTENT OF 1.6 PERCENT MAXIMUM AND WATER

APPROPRIATE COLOR TO FACILITATE VISUAL

AS SPECIFIED IN THE MARYLAND SEED LAW AND NOT MUSTY, MOLDY, CAKED

CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE.

THAT WILL PROVIDE AN APPROPRIATE INSPECTION OF THE UNIFORMLY SPREAD SLURRY.

iv. WHEN HYDROSEEDING DO NOT INCORPORATE SEED INTO THE SOIL.

MAY BE APPLIED BY HYDROSEEDING). NORMALLY, NOT MORE THAN 2 TONS ARE

APPLIED BY HYDROSEEDING AT ANY ONE TIME. DO NOT USE BURNT OR HYDRATED

APPLY SEED IN TWO DIRECTIONS, PERPENDICULAR TO EACH OTHER. APPLY HALF THE SEEDING RATE IN EACH DIRECTION. ROLL THE SEEDED AREA WITH A

a. DRY SEEDING: THIS INCLUDES USE OF CONVENTIONAL DROP OR BROADCAST

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

APPLIED WHEN THE GROUND THAWS.

SITE-SPECIFIC SEEDING SUMMARIES

MUST BE FIRM AFTER PLANTING.

K20 (POTASSIUM), 200 POUNDS PER ACRE

SEED AND FERTILIZER).

LIME WHEN HYDROSEEDING

I. MULCH MATERIALS (IN ORDER OF PREFERENCE)

AREAS WHERE ONE SPECIES OF GRASS IS DESIRED

INTERRUPTION.

B. MULCHING

HALF THE SEEDING RATE IN EACH DIRECTION.

A. SEEDING

2. APPLICATION

t, such as disc harrows or chisel plows of

L:\CADD\DRAHHNS\09901\13032 (N&S)\SDP (AREA 2)\13032_05 SC DET (Areo 2).dwg | DES. MBT | DRN. KLP | CHK. MBT

TO USE FAST GROWING VEGETATION THAT PROVIDES COVER ON DISTURBED SOILS. CONDITIONS WHERE PRACTICE APPLIES EXPOSED SOILS WHERE GROUND COVER IS NEEDED FOR A PERIOD OF 6 MONTHS OR LESS. FOR LONGER DURATION OF TIME, PERMANENT STABILIZATION

PRACTICES ARE REQUIRED.

B-4-5 STANDARDS AND SPECIFICATIONS

FOR PERMANENT STABILIZATION

TO STABILIZE DISTURBED SOILS WITH PERMANENT VEGETATION.

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.

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

BE PLACED ON THE PLAN.

- CRITICAL AREA PLANTING.

RECOMMENDED BY THE SOIL TESTING AGENCY.

PERCENT OF THE TOTAL MIXTURE BY WEIGHT.

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

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

a. AREAS WHERE TURFGRASS MAY BE DESIRED INCLUDE LAWNS, PARKS, PLAYGROUNDS, AND COMMERCIAL SITES WHICH WILL RECEIVE A MEDIUM TO HIGH LEVEL OF MAINTENANCE.

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

CONDITIONS OR PURPOSE. ENTER SELECTED MIXTURE(S), APPLICATION RATES, AND SEEDING DATES IN THE PERMANENT SEEDING SUMMARY. THE SUMMARY IS TO BE PLACED

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

INTENSIVE MANAGEMENT. IRRIGATION REQUIRED IN THE AREAS OF CENTRAL MARYLAND

AND FASTERN SHORE, RECOMMENDED CERTIFIED KENTUCKY BLUEGRASS CULTIVARS

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

AREAS WHERE RAPID ESTABLISHMENT IS NECESSARY AND WHEN TURF WILL RECEIVE

CULTIVARS/CERTIFIED KENTUCKY BLUEGRASS SEEDING RATE: 2 POUNDS MIXTURE PEF 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.

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

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

iii. TALL FESCUE/KENTUCKY BLUEGRASS: FULL SUN MIXTURE: FOR USE IN DROUGHT

iv. KENTUCKY BLUEGRASS/FINE FESCUE: SHADE MIXTURE: FOR USE IN AREAS WITH SHADE IN BLUEGRASS LAWNS. FOR ESTABLISHMENT IN HIGH QUALITY, INTENSIVELY

MANAGED TURF AREA. MIXTURE INCLUDES; CERTIFIED KENTUCKY BLUEGRASS

SELECT TURFGRASS VARIETIES FROM THOSE LISTED IN THE MOST CURRENT

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

CHOOSE CERTIFIED MATERIAL. CERTIFIED MATERIAL IS THE BEST GUARANTEE OF

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

CENTRAL MD: MARCH 1 TO MAY 15, AUGUST 15 TO OCTOBER 15 (HARDINESS ZONE:

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 O

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

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

PLANT GROWTH (1/2 TO 1 INCH EVERY 3 TO 4 DAYS DEPENDING ON SOIL TEXTURE) UNTIL

LATE IN THE PLANTING SEASON, IN ABNORMALLY DRY OR HOT SEASONS, OR ON ADVERSE

DATES

FERTILIZER

| (10-20-20) | LIME RATE

RATE

(45 lb/acre)

SEEDING

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

DEPTHS

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

THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE.

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

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

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 MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.

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

SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT

(EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.

SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 3/4 INCH. PLUS OR MINUS

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

SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS

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 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.

IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS

DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN 1/3 OF THE GRASS LEAF AUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A

8401 GREENSBORO DRIVE, SUITE 450

MCLEAN, VIRGINIA 22102

PH: 703-821-2500

ATTN.: DEXTER FINK

OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4

AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN

INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.

GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED

SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR

WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM

1/4 INCH. AT THE TIME OF CUTTING, MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP

APPLICATION

RATE

1000 s.f.

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

GRASP ON THE UPPER 10 PERCENT OF THE SECTION

SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

CULTIVAR PURITY. THE CERTIFICATION PROGRAM OF THE MARYLAND DEPARTMENT OF

AGRICULTURE, TURF AND SEED SECTION, PROVIDES A RELIABLE MEANS OF CONSUMER

SEEDING RATE: 11/2 TO 3 POUNDS PER 1000 SQUARE FEET.

CULTIVAR RECOMMENDATIONS FOR MARYLAND"

PROTECTION AND ASSURES A PURE GENETIC LINE

IDEAL TIMES OF SEEDING FOR TURF GRASS MIXTURES

HARDINESS ZONE: 6

SPECIES

*Certified Toll Fescue blend

(95% by weight): Falcon IV

Penn 1901 & Rebel Exeda

Certified Kentucky Bluegrass

Courtyard, Raven & Yankee

blend (5% by weight):

GENERAL SPECIFICATIONS

ACCEPTABLE.

SOD INSTALLATION

SOD MAINTENANCE

BY I APP'R.

ADEQUATE MOISTURE CONTENT.

MAPLE LAWN FARMS 1, LLC

BALTIMORE, MD 21208

PH: 410-484-8400

ATTN.: MARK BENNETT

1829 REISTERSTOWN ROAD, SUITE 300

SEED MIXTURE: #9 (Tail Fescue/ Kentucky Bluegrass)

CULTIVARS 30 TO 40 PERCENT AND CERTIFIED FINE FESCUE AND 60 TO 70 PERCENT.

MEDIUM TO INTENSIVE MANAGEMENT. CERTIFIED PERENNIAL RYEGRASS

THREE KENTUCKY BLUEGRASS CULTIVARS WITH EACH RANGING FROM 10 TO 35

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

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

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

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

SELECT ONE OR MORE OF THE SPECIES OR SEED MIXTURES LISTED IN TABLE B.1 FOR TH 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 B 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 SEASON.

TEMPORARY SEEDING SUMMARY.

^	INOCULANTS: THE INOCULANT FOR TREATING LEGUME SEED IN THE SEED MIXTURES								0.	1/2 DOLLING DEL
۷.	MUST BE A PURE CULTURE OF NITROGEN FIXING BACTERIA PREPARED SPECIFICALLY FOR THE SPECIES, INOCULANTS MUST NOT BE USED LATER THAN THE DATE		HARDINESS				FERTILIZER			1/2 POUNDS PER IN ADDITION TO T
	INDICATED ON THE CONTAINER. ADD FRESH INOCULANTS AS DIRECTED ON THE		SEED MIXTUR	₹Ŀ:			RATE	LIME RATE	2. TURF	GRASS MIXTURES
	PACKAGE. USE FOUR TIMES THE RECOMMENDED RATE WHEN HYDROSEEDING. NOTE: IT IS VERY IMPORTANT TO KEEP INOCULANT AS COOL AS POSSIBLE UNTIL USED. TEMPORATIONS AROUS JE TO SO DECREES EAUDENLIST CAN INCAVEN DACTEDIA	No.	SPECIES	APPLICATION RATE (lb/ac.)	SEEDING DATES	SEEDING DEPTHS	(10-10-10)	CIIIIC TOTTO	G.	AREAS WHERE TU
d.	TEMPERATURES ABOVE 75 TO 80 DEGREES FAHRENHEIT CAN WEAKEN BACTERIA AND MAKE THE INOCULANT LESS EFFECTIVE. SOD OR SEED MUST NOT BE PLACED ON SOIL WHICH HAS BEEN TREATED WITH SOIL	1	ANNUAL RYEGRASS	40 lb/ac	Mar. 1 to May 15, Aug. 1 to Oct. 15	0.5 INCHES	436 lb./ac.	2 tons/ac	b.	COMMERCIAL SITE SELECT ONE OR:
	STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14 DAYS MIN.) TO PERMIT DISSIPATION OF PHYTO-TOXIC MATERIALS.		PEARL MILLET	20 lb/ac	May 16 to July 31	!	(10 lb./ 1,000 sf)	(90 lb./ 1,000 sf)	ÿ.	CONDITIONS OR P SEEDING DATES II ON THE PLAN.
AP	PLICATION			'		I.				

SEDIMENT CONTROL NOTES A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE

START OF ANY CONSTRUCTION. (410-313-1855). ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO TH PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "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: A. 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B. 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 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 PERMANENT SEEDING (Sec. B-4-5). TEMPORAR

SEEDING (Sec. B-4-4) AND MULCHING (Sec. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES. 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 HOWARD COUNTY SEDIMENT CONTROL INSPECTOR

SITE ANALYSIS: 1.58± AC. TOTAL AREA OF SITE 1.88± AC. AREA DISTURBED 0.76± AC. AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED : 1.12± AC. 2,965± CY 2,965± CY OFF-SITE WASTE/BORROW AREA LOCATION : NONE

ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE

HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION

TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO 3 PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED BY THE END OF EACH WORK DAY, WHICHEVER IS SHORTER.

ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH A PROJECT IS TO BE SEQUENCED SO THAT THE 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 ENFORCEMENT AUTHORITY, UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY

MAY BE DISTURBED AT A GIVEN TIME.

STANDARDS AND SPECIFICATIONS FOR DUST CONTROL OFFINITION

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 HEALTH AND TRAFFIC HAZARDS. CONDITIONS WHERE PRACTICE APPLIES

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

MULCHES: SEE SECTION B-4-2 SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS, SECTION 8-4-3 SEEDING AND MULCHING, AND SECTION 8-4-4 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 IRRIGATION: SPRINKLE SITE WITH WATER UNTIL THE SURFACE IS MOIST, REPEAT AS NEEDED. THE SITI 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.

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

BUILDER'S CERTIFICATE "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

REVISION.

DETAIL B-1 STABILIZED CONSTRUCTION * SCE X **ENTRANCE** EXISTING PAVEMENT - KKKKKKK EARTH FIL -PIPE (SEE NOTE 6) **PROFILE** 50 FT MIN. LENGTH * EDGE OF EXISTINGPAVEMENT PLAN VIEW CONSTRUCTION SPECIFICATIONS PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN, VEHICLES

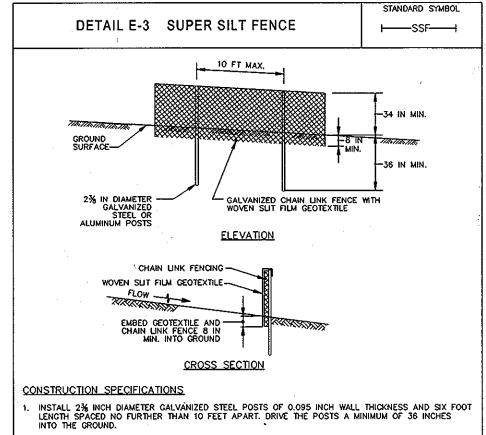
MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS. 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

. Prepare subgrade and place nonwoven geotextile, as specified in section H-1 materials . 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. MAINTAIN 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, IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

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

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION 2011

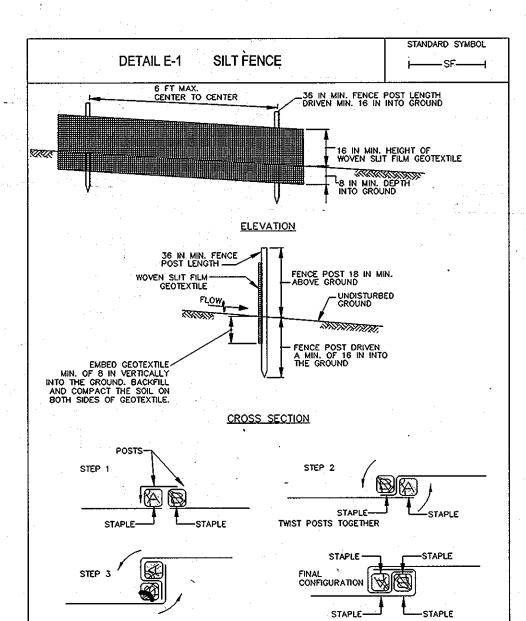


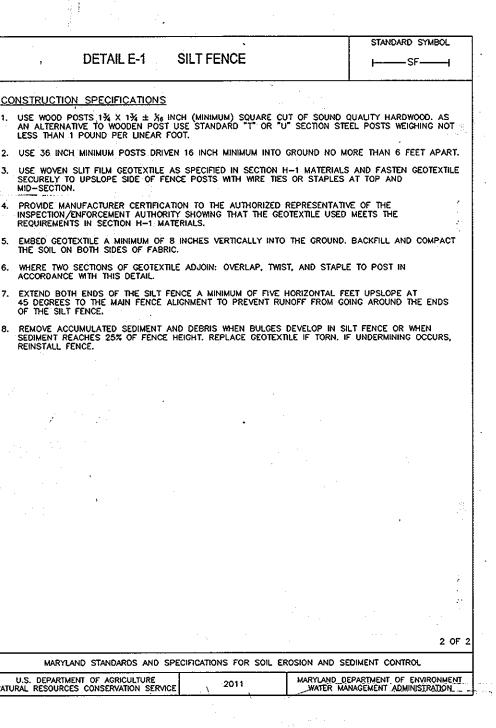
FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2% INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HUG RINGS. FASTEN WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION, EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.

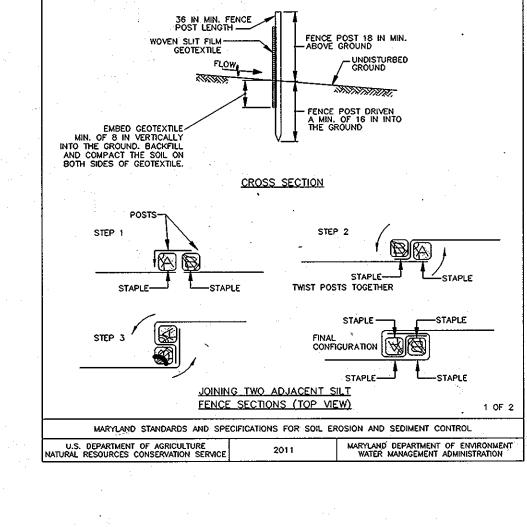
WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.

PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN, IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL U.S. DEPARTMENT OF AGRICULTURE TURAL RESOURCES CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION 2011







THIS PLAN IS FOR SEDIMENT CONTROL PURPOSES ONLY

SEDIMENT CONTROL NOTES and DETAILS G. L. W. FILE No. SCALE ZONING MAPLE LAWN FARMS NO SCALE MXD-3MIDTOWN WEST DISTRICT SHEET AREA 1: LOT 14 TAX MAP - GRID DATE AREA 2: LOT Nos. 114-117, 131-136 & 151-153 (SFD RESIDENTIAL USE) AUGUST 2013 41-15&21 5 OF 7 PLAT Nos. 16764, 21856-21860, 21994-22001 and 22398-22405 HOWARD COUNTY MARYLAND

PREPARED FOR: PROPERTY OWNER (SELLER): BUILDER (CONTRACT PURCHASER): MILLER and SMITH at MAPLE LAWN L.L.C.

ELECTION DISTRICT No. 5

SDP - 13 - 090

LANDSCAPE NOTES

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE 4 CHAPTER VI OF THE HOWARD COUNTY LANDSCAPE MANUAL (ALTERNATIVE COMPLIANCE) PLUS THE LANDSCAPE DESIGN CRITERIA OF S-06-16 AND PB CASE No. 378.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST (5) FIVE DAYS BEFORE STARTING WORK. ALL GENERAL NOTES, ESPECIALLY THOSE REGARDING UTILITIES, ON SHEET NO. I SHALL APPLY.
- FIELD VERIFY UNDERGROUND UTILITY LOCATIONS AND EXISTING CONDITIONS BEFORE STARTING PLANTING
- WORK. CONTACT CONSTRUCTION MANAGER OR OWNER IF ANY RELOCATIONS ARE REQUIRED. PLANT QUANTITIES SHOWN ON THE PLANT LIST ARE PROVIDED FOR THE CONVENIENCE OF THE
- CONTRACTOR ONLY. IF DISCREPANCIES EXIST BETWEEN QUANTITIES SHOWN ON THE PLAN AND THOSE SHOWN ON THE PLANT LIST, THE QUANTITIES ON THE PLAN SHALL TAKE PRECEDENCE. ALL PLANT MATERIAL SHALL BE FULL, HEAVY, WELL FORMED, SYMMETRICAL, AND CONFORM TO THE A.A.N. SPECIFICATIONS. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT
- NO SUBSTITUTION SHALL BE MADE WITHOUT PRIOR APPROVAL FROM HOWARD COUNTY DPZ AND THE OWNER OR HIS REPRESENTATIVE.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES BUT NOT OTHERWISE PLANTED, PAVED, OR MULCHED SHALL BE SODDED OR SEEDED IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATION. A MINIMUM OF 4" OF TOPSOIL SHALL BE PROVIDED TO ALL PLANTING AREAS (FOR TOPSOIL SPEC. SEE
- 8. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING IF HE/SHE ENCOUNTERS SOIL DRAINAGE CONDITIONS THAT MAY BE DETRIMENTAL TO THE GROWTH OF THE PLANTS.
- ALL EXPOSED EARTH WITHIN THE LIMITS OF PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH PER THE PLANTING DETAILS.
- 10. DO NOT PLANT WITHIN THE PUBLIC WATER, SEWER AND UTILITY EASEMENT.
- "SCHEDULE-C" IS PROVIDED FOR LANDSCAPE SURETY CALCULATION PURPOSES. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING SHALL BE POSTED WITH THE GRADING PERMIT FOR HOUSE CONSTRUCTION IN THE AMOUNT OF \$ 9,150.00 FOR THE LOTS PER THIS SDP AS FOLLOWS:

165 SHRUBS AT \$30/SHRUB 14 TREES AT \$300.00/TREE = \$ 4,200.00

FOR LANDSCAPE INSPECTION TO OBTAIN THE RELEASE OF THE SURETY, CONTACT HOWARD COUNTY DEPT. OF PLANNING & ZONING AT 410-313-2350. SEE THE CHART BELOW THIS SHEET FOR THE BREAK DOWN OF THE SURETY ON A PER LOT BASIS.

AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION, NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATION FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE APPLICABLE PLANS.

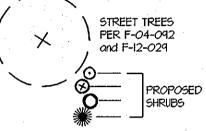
THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIAL TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.

		PLANT	LIST	
SYMBOL	QUANT.	SIZE	NAME (BOTANICAL/COMMON) OF PLANTS FOR SELECTION BY OWNER/BUYER	COMMENTS
AA Bernara	4	ALL SHADE TREES SHALL BE 2.5"-3" CAL.	ACER X FREEMANII 'ARMSTRONG' / ARMSTRONG MAPLE	ALL B#B
\$ QR	Ю	AND 12' MIN, HT.	QUERCUS ROBUR X Q. ALBA 'CRIMSCHMIDT' / CRIMSON SPIRE OAK	
0	40	ALL 18" - 24" SPREAD	AZALEA VAR.: 'GUMPO PINK', 'GUMPO WHITE', 'KAEMPO' COTONEASTER DAMMERII 'CORAL BEAUTY' / CORAL BEAUTY COTONEASTER COTONEASTER HORIZONTALIS 'TOM THUMB' / TOM THUMB COTONEASTER JUNIPERUS HORIZONTALIS VAR. / JUNIPER VAR.: 'BAR HARBOR', 'ANDORRA', 'WILTONI BLUE RUG' JUNIPERUS PROCUMBENS 'NANA' / DWARF JAPANESE GARDEN JUNIPER LONICERA NITIDA 'BRILONI' / EDMEE GOLD (TM) HONEYSUCKLE PPI5234	ALL CONTAINERIZED
⊗	24	ALL 24" - 30" SPREAD	AZALEA VAR.: 'DELAWARE VALLEY WHITE', 'HERSHEY RED', 'HINO CRIMSON' DEUTZIA GRACILIS/ SLENDER DEUTIZIA ILEX CRENATA 'HELLEI' / DWARF JAPANESE HOLLY ILEX GLABRA 'COMPACTA' / DWARF INKBERRY MAHONIA AQUIFOLIUM / OREGON GRAPE HOLLY SPIREA NIPPONICA 'SNOWMOUND' / SNOWMOUND SPIREA BUXUS SEMPERVIRENS 'SUFFRUTICOSA' / DWARF ENGLISH BOXWOOD	ALL CONTAINERIZED
0	}	ALL 24" - 30" SPREAD & 2.5' - 3' HT.	EUONYMUS KIAUTSCHOVICUS 'MANHATTAN' / MANHATTAN EUONYMUS MAHONIA BEALEI / LEATHERLEAF MAHONIA OSMANTHUS HETEROPHYLLUS 'GULFTIDE' / SWEET HOLLY RHODODENDRON HYBRID VAR. (CAT. ALBUM, CAT. GRANDIFLORA, 'ENGLISH ROSEUM', 'ROSEUM ELEGANS') RHODODENDRON 'PJM' PJM RHODODENDRON TAXUS CUSPIDATA 'NANA' / DWARF JAPANESE YEW VIBURNUM CALESI / KOREAN SPICE VIBURNUM	ALL CONTAINERIZED
**	31	ALL 3' -4' HT.	ILEX VERTICILLATA VAR./ MINTERBERRY HOLLY VAR. ('CARDINAL', 'JIM DANDY', ' RED SPRITE', 'MINTER RED' or 'SPARKLEBERRY') JUNIPERUS CHINENSIS 'BLUE POINT' / BLUE POINT JUNIPER TAXUS MEDIA 'HICKSII' / HICKS YEW TAXUS CUSPIDATA 'FLUSHING' / FLUSHING YEW TAXUS MEDIA 'VIRIDIS' / VIRIDIS YEW THUJA OCCIDENTIALIS 'EMERAL GREEN' / EMERAL GREEN ARBORVITAE BUXUS MICROPHYLLA / MINTERGREEN BOXWOOD	ALL CONTAINERIZED

LOT	ì	REQUIRED FF SHRUBS AT I	RONT YARD PLANTINGS: 14 OF LOT WIDTH AT BRL	REQUIRED SIDE & REAR Y/ COTTAGE LOTS: I SHADE T NO SHRUBS REQUIRED				PLANTINGS PROVIDED		COMMENTS
TYPE	NO.	LOT WIDTH	SHRUBS REQUIRED	BLDG. LENGTHS (S)	SHRUBS REQUIRED	SHD. TREE	SHRUBS	OTHERS (AS SUBSTITUTIONS)		
COTTAGE	14	40.0'	IO	₩A	N/A	1	10			
,	114	40.0'	10	N/A	N/A	1	10			
	115	40.0'	· 10	WA	N/A	1	10			
	116	40.0'	10	₩A	N/A	1	10	e e		
	117	40.0'	10	N/A	N/A	-	10		*	
	131	61.95'	15	, N/A	N/A	1	15			
	132	57.11'	14	· WA	N/A	ı	14	•		
	133	57.11'	14	WA	N/A	ı	14			
	134	57.11'	14	₩A	N/A	I	14			
	135	57.11'	14	₩A	N/A	l	14			·
	136	57.11'	14	, NA	N/A	I	14 .			
.	151	40.0'	10	WA	N/A	1	10			
	152	40.0'	IO	WA	N/A	l l	10			
	153	40.0'	10	N/A	N/A	1	10			

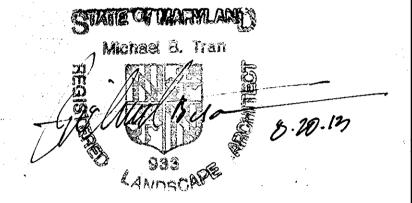
LANDSCAPE SURETY PER LOT								
BUILDER	LOT No.	PLANT QUAI	YTITY	SURETY AMOUNT				
		SHADE TREE	SHRUBS					
MILLER & SMITH at	14	. 1	10	\$600.00				
MAPLE LAWN L.L.C.	114	1	10	\$600.00				
	115	I	10	\$600.00				
	116	1	10	\$600.00				
	117	1	0	\$600.00				
	131	1	15	\$750.00				
	132	I	14	\$720.00				
	133	ı	14	\$720.00				
	134	1	14	\$720.00				
	135	· I	14	\$720.00				
	136	l	14	\$720.00				
	151	1	10	\$600.00				
	152	i	0	\$600.00				
	153	ı	10	\$600.00				
TOTAL		14	165	\$4,150.00				

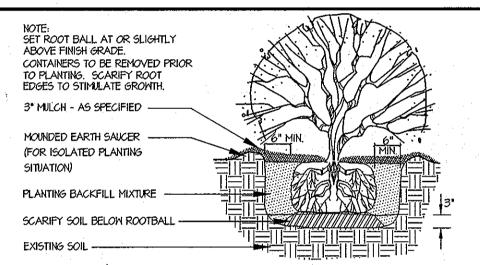
PLANTING LEGEND



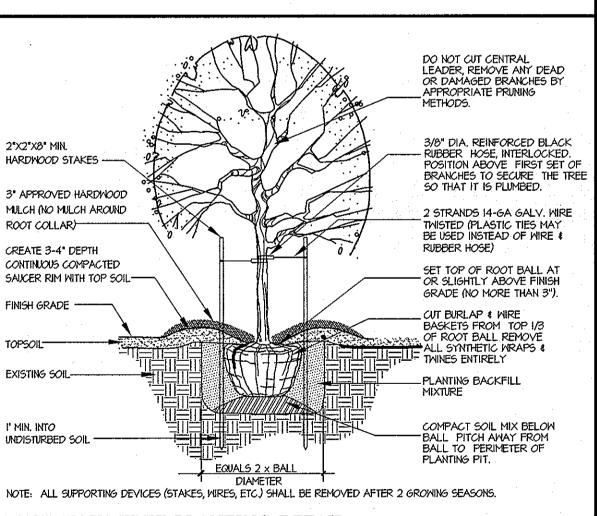


REVISION





SHRUB PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL FOR PLANTING MATERIAL UP TO 3 1/2" CALIPER

GRAPHIC SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING Markh Solvey 10 9/15/15 Director Date VetSelvel 9/15/15 Chief, Division of Land Development Date Chief, Development Engineering Division Date	O 10 20	40	
Director Date Vetteleval Chief, Division of Land Development Chief August 9.15.13	\	FOF PLANNING & ZONING	
Chief, Division of Land Development Chief August Chief August 1015-13		9/15/13	
Charl & Anad 9.15.13	Vert Element	عارباري	
Chief, Development Engineering Division Date	Chief, Division of Land Development	Date	
	Chief, Development Engineering Division	Date	

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

L:\CADD\DRAMMGS\09001\13032 (M&S)\SDP (AREA 2)\13032_06-07 LS (Areo 2).dwg | DES: MBT | DRN: KLP | CHK. MBT

MAPLE LAWN FARMS MIDTOWN WEST DISTRICT ZONED: MXD-3 (SEE SDP-12-012) 13 MAPLE LAWN FARMS MIDTOWN WEST DISTRICT ZONED: MXD-3 P.N. 21859 (SEE SDP-12-046) S 62°23'42" W 94.05' 5 62°23'42" W MAPLE LAWN FARMS MIDTOWN WEST DISTRICT ZONED: MXD-3 P.N. 21859 (SEE SDP-12-017) I' PUBLIC SIDEWALK MAINTENANCE, MATER HOUSE CONNECTION, SEMER HOUSE CONNECTION & UTILITY EASEMENT (PN 21859) MAPLE LAWN FARMS MIDTOWN WEST DISTRICT ZONED: MXD-3 (SEE SDP-12-012)

PREPARED FOR:

BUILDER (CONTRACT PURCHASER):

8401 GREENSBORO DRIVE, SUITE 450

MCLEAN, VIRGINIA 22102

PH: 703-821-2500

ATTN.: DEXTER FINK

MILLER and SMITH at MAPLE LAWN L.L.C.

PROPERTY OWNER (SELLER):

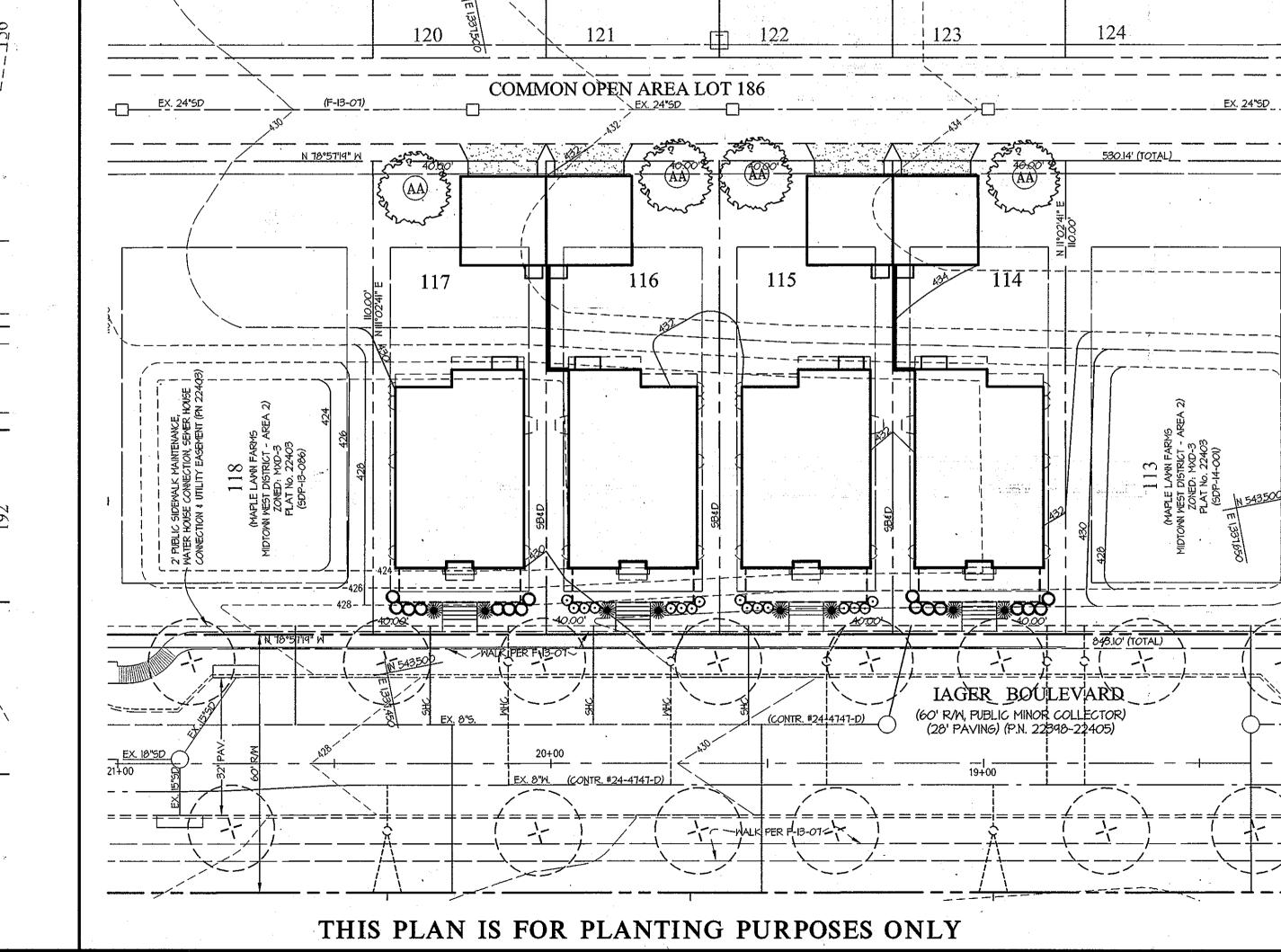
1829 REISTERSTOWN ROAD, SUITE 300

MAPLE LAWN FARMS 1, LLC

BALTIMORE, MD 21208

ATIN.: MARK BENNETT

PH: 410-484-8400



THIS PLAN IS FOR PLANTING PURPOSES ONLY LANDSCAPE PLAN G. L. W. FILE No. SCALE 'ZONING MAPLE LAWN FARMS 13032 1"=20' MXD-3MIDTOWN WEST DISTRICT AREA 1: LOT 14 DATE TAX MAP - GRID SHEET AREA 2: LOT Nos. 114-117, 131-136 & 151-153 (SFD RESIDENTIAL USE) AUGUST 2013 41-15&21 6 OF 7 PLAT Nos. 16764, 21856-21860, 21994-22001 and 22398-22405 HOWARD COUNTY, MARYLAND

ELECTION DISTRICT No. 5

IAGER BOULEVARD

(60' R/W. PUBLIC MINOR COLLECTOR)

(28' PAVING) (P.N. 22398-22405)

