GENERAL NOTES

- SUBJECT PROPERTY IS ZONED "PGCC" PER THE 10/6/2013 COMPREHENSIVE ZONING PLAN.
- GROSS AREA OF SITE SUBJECT TO SUBDIVISION = 16.019 AC.± AREA OF PROPOSED PUBLIC R/W: 1.223 AC±
- NUMBER OF PROPOSED BUILDABLE LOTS AND PARCELS: 100
- NUMBER OF OPEN SPACE LOTS: 1
- AREA OF PROPOSED OPEN SPACE LOT: 7.773 AC

AREA OF PROPOSED BUILDABLE LOTS: 7.023 AC±

- OPEN SPACE REQUIRED: (15% OF GROSS AREA OF SITE SUBJECT TO SUBDIVISION): 16.019 AC. x 15% = 2.402 AC. TOTAL OPEN SPACE PROVIDED: 7.773 AC.±

- 2. THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT
- SEWER IS PUBLIC. THE CONTRACT NUMBER IS 24-34-47. THE DRAINAGE AREA IS LITTLE PATUXENT.
- . BOUNDARY SURVEY PREPARED BY MILDENBERG, BOENDER & ASSOCIATES ON OR ABOUT MARCH, 2006.

- EXPLORATION RESEARCH FOR S-86-13 AND VERIFIED BY ECO-SCIENCE PROFESSIONALS, INC. IN FEBRUARY 2017. PREVIOUS HOWARD COUNTY FILE NUMBERS: F-15-056, F-12-055

- UNDER THE 4TH AMENDED COMPREHENSIVE SKETCH PLAN ON APRIL 27, 2006. . A NOISE STUDY FOR THIS PROJECT IS NOT REQUIRED SINCE NONE OF PROPOSED LOTS ARE LOCATED WITHIN 500 FEET INTERSTATE 70 OR ROUTE 40 RIGHT-OF-WAY.
- 5. PARKING REQUIRED: TOWNHOUSE UNITS = 96

TOTAL PARKING SPACES REQUIRED (2.5 SPACES PER UNIT) = 96 X 2.5 = 240 SPACES

THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY TRAFFIC GROUP, DATED JANUARY

PARKING REQUIRED: APARTMENT UNITS = 57

TOTAL PARKING SPACES REQUIRED (2.3 SPACES PER UNIT) = 57 X 2.3 = 131 SPACES

PARKING PROVIDED: SPACES WITHIN GARAGES/DRIVEWAYS OF TOWNHOUSE (2 SPACES EACH TOWNHOUSE) = 2X 96 = 192 SPACES WITHIN THE PARKING LOTS/OFF-STREET PARKING = 49 TOTAL PARKING SPACES PROVIDED = 241 HANDICAP REQUIRED = 7

PARKING PROVIDED: SPACES WITHIN GARAGES OF APARTMENT BLOCKS = 4 X 10 = 40 SPACES WITHIN THE PARKING LOTS/OFF-STREET PARKING = 164 TOTAL PARKING SPACES PROVIDED = 204

HANDICAPPED PROVIDED = 7

HANDICAP REQUIRED = 7

- HANDICAPPED PROVIDED = 7b. THIS PROJECT HAS BEEN DESIGNED IN COMPLIANCE WITH THE THIRD AMENDMENT TO THE TURF VALLEY MULTI-USE
- SUB-DISTRICT FINAL DEVELOPMENT PLAN. APPROVED PHASING CHART FOR THIS DEVELOPMENT IS ON RECORD IN DPZ FILES.

OWNER/DEVELOPER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

MANGIONE ENTERPRISES OF TURF VALLEY, LP

1205 YORK ROAD, PENTHOUSE

LUTHERVILLE, MARYLAND 21093

TVTS RETAIL, LLC.

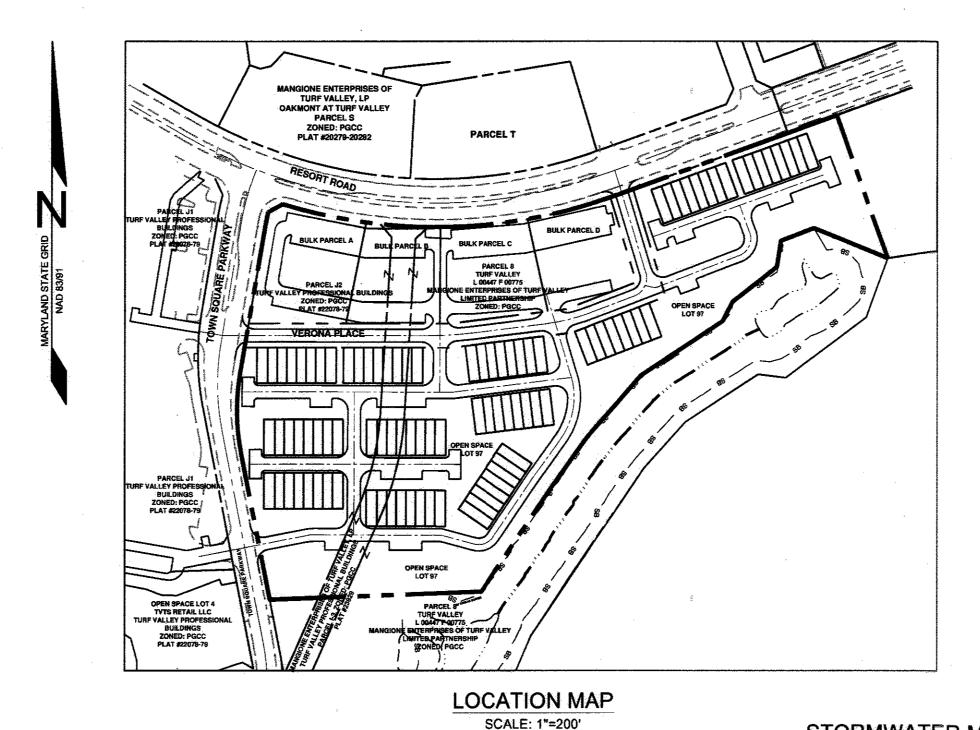
1205 YORK ROAD, PENTHOUSE

LUTHERVILLE, MARYLAND 21093

- 38. APARTMENT BUILDING #1 SHOWS 3 DENSITY UNITS UNDER THIS PLAN. BUILDING #1 WILL BE CONSTRUCTED WHEN ADDITIONAL 5 DENSITY UNITS ARE MADE AVAILABLE
- 9. THE ENVIRONMENTAL CONCEPT PLAN IS FOR STORMWATER MANAGEMENT PURPOSES ONLY. APPROVAL OF THIS ECP DOES NOT CONSTITUTE APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION OR SITE DEVELOPMENT PLANS, REVIEW OF THE PLAN BY THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE HOWARD COUNTY ZONING REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAT AND SITE DEVELOPMENT PLAN STAGES. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVER SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.

ENVIRONMENTAL CONCEPT PLAN THE VILLAGE AT TOWN SQUARE

LOTS 1-96, OPEN SPACE LOT 97, BULK PARCELS A TO D A SUBDIVISION OF PARCEL 8 & A RESUBDIVISION OF TURF VALLEY PROFESSIONAL BUILDINGS PARCELS J2 & I-3 HOWARD COUNTY, MARYLAND



STORMWATER MANAGEMENT NOTES AND DESIGN NARRATIVE

THIS SITE IS PART OF THE PLANNED GOLF COURSE COMMUNITY LOCATED AROUND THE TURF VALLEY GOLF COURSE AND IS ZONED PGCC. 16.02± ACRE PROPERTY WILL BE SUBDIVIDED INTO A TOTAL OF 100 RESIDENTIAL LOTS CONSISTING OF TOWN HOUSES AND APARTMENT DWELLINGS, VERONA PLACE, A PUBLIC ROAD WILL BE EXTENDED THROUGH THE PROPERTY. ALL OTHER PLANNED ROADS WILL BE PRIVATE. PROPOSED LOT 97 WILL BE OPEN SPACE LOT.

NATURAL RESOURCE PROTECTION AND ENHANCEMENT IS BEING ACHIEVED AS NO ENVIRONMENTAL AREAS OR BUFFERS ARE BEING DISTURBED.

NATURAL FLOW PATTERN HAVE BEEN MAINTAINED BY USING ESD PRACTICES AROUND THE SITE WITH ULTIMATE DISCHARGE POINT AT SITE BOUNDARY IN ORDER TO PRESERVE/MIMIC EXISTING CONDITION OF

REDUCTION OF IMPERVIOUS AREA HAVE BEEN ACCOMPLISHED BY AVOIDING STREET LOOPS, NARROWEST POSSIBLE ROAD WIDTHS, MINIMUM DRIVEWAY AND SIDEWALK WIDTHS IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL AND REGULATIONS ALTERNATE ESD PRACTICES ARE NOT PRACTICAL DUE TO EXISTING AND PROPOSED SLOPES. DRIVEWAYS AND SIDEWALKS ARE LOCATED CLOSE TO BUILDING FOUNDATIONS, AND THEREFORE ARE NOT CONDUCIVE TO BE DESIGNED AS PERMEABLE PAVEMENTS.

STORM WATER MANAGEMENT FOR THE PROPOSED DEVELOPMENT IS ADDRESSED BY IMPLEMENTING ENVIRONMENTAL SITE DESIGN (ESD) TO THE MAXIMUM EXTENT PRACTICABLE (MEP) IN ACCORDANCE WITH THE REVISED MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) STORM WATER DESIGN MANUAL CHAPTER 5. ESD CONSISTS OF COMBINATION OF THE FOLLOWING PRACTICES: MICRO-BIORETENION (M-6); BIORETENTION (F-6) AND SUBMERGED GRAVEL WETLAND (M-2).

THE SEDIMENT AND EROSION CONTROL PRACTICES FOR THIS DEVELOPMENT WILL BE DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. AT THE FINAL PLAN STAGE, THE PLANS WILL INCORPORATE SILT FENCE, SUPER SILT FENCE AND EARTH DIKES AROUND THE LIMIT OF DISTURBANCE TO ELIMINATE THE POSSIBILITY OF SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE. THE IMPLEMENTATION OF THIS SEDIMENT AND EROSION CONTROL PLAN WILL ENSURE THE CONSTRUCTION PHASE OF THIS DEVELOPMENT HAS NO NEGATIVE EFFECTS ON THE ADJACENT PARCELS.

UTILIZING THE METHODS DESCRIBED ABOVE, WILL SATISFY REQUIRED STORMWATER MANAGEMENT OBLIGATIONS TO THE MAXIMUM EXTENT PRACTICABLE.

EXISTING SPOT ELEVATION 382.3 PROPOSED SPOT ELEVATION \sim EXISTING TREELINE mPROPOSED TREELINE **EXISTING STREAM BUFFER** PROPERTY BOUNDARY SLOPES 15.00% TO 24.99% SLOPES GREATER THAN 25.00% EXISTING STREAM BANK EX. WATER Actually agencies streets streets believe whether bettern treets from the EX.. SEWER PROP. WATER PROP. SEWER PROP. SEWER MANHOLE PROP. STORM DRAIN LIMIT OF DISTURBANCE SOIL BOUNDARY SOIL BOUNDARY CURB INLET PROTECTION AT GRADE INLET PROTECTION

TYPICAL OUTFALL END SECTION

STABILIZED CONSTRUCTION

WITH RIP-RAP

ENTRANCE

----382

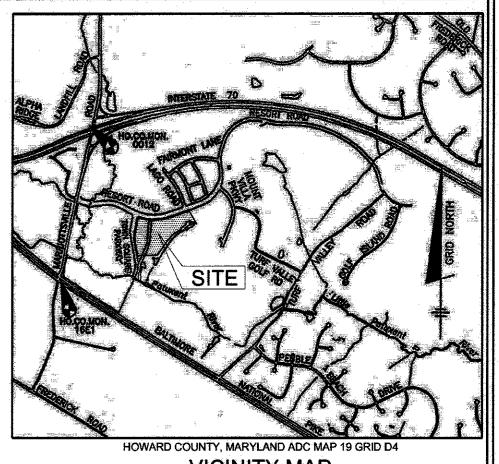
382

LEGEND

EXISTING CONTOUR PROPOSED CONTOUR

SWM Practice Chart Summary Table

	Pe=	2.0 inches	Qe=	1.19 inches	ESDv=	68,139 (ubic Feet	Rv=	0.59			Ш
		DA	DA to	Imp Area to	Af (so	.ft.)	ES	Dv	R	ev	Ournorship	
Practice		#	practice	practice	Provided	2% DA?	Provided	Pe	Required	Provided	Ownership	
(M-6) Micro-Bioretention	#1	1	20,400 Sqft	11,250 Sqft	1,633 Sqft	OK	2,035 cf	2.19		653 cf	Private	
(F-6) Bioretention	#1	2	16,670 Sqft	8,010 Sqft	1,500 Sqft	ОК	1,734 cf	2.6		600 cf	Private	
(M-6) Micro-Bioretention	#2	3	22,115 Sqft	17,300 Sqft	1,260 Sqft	ОК	1,572 cf	1.13086		504 cf	Private	
(F-6) Bioretention	#2	4	66,300 Sqft	51,630 Sqft	6,204 Sqft	ОК	10,774 cf	2.6		2482 cf	Private	
(M-6) Micro-Bioretention	#3	5	17,250 Sqft	11,700 Sqft	1,302 Sqft	ОК	1,623 cf	1.70986		521 cf	Private	
(F-6) Bioretention	#3	6	39,320 Sqft	19,500 Sqft	2,375 Sqft	OK	4,250 cf	2.6		950 cf	Private	
(F-6) Bioretention	#4	7	27,670 Sqft	16,500 Sqft	1,973 Sqft	ОК	3,435 cf	2.6		1244 cf	Private	١Ē
(F-6) Bioretention	#5	8	36,500 Sqft	26,600 Sqft	3,110 Sqft	ОК	5,615 cf	2.6		1244 cf	Private	
(F-6) Bioretention	#6	9	35,800 Sqft	26,500 Sqft	3,130 Sqft	ОК	5,470 cf	2.55		1252 cf	Private	
(M-6) Micro-Bioretention	#4	10	15,500 Sqft	4,900 Sqft	1,691 Sqft	ОК	1,123 cf	2.6		676 cf	Private	
(F-6) Bioretention	#7	11	35,270 Sqft	21,900 Sqft	2,575 Sqft	OK	4,662 cf	2.6		1030 cf	Private	
(F-6) Bioretention	#8	12	26,540 Sqft	17,000 Sqft	3,003 Sqft	OK	3,623 cf	2.6		1201 cf	Private	
(M-6) Micro-Bioretention	#5	13	18,500 Sqft	9,800 Sqft	1,661 Soft	OK	2,013 cf	2.48		664 cf	Private	Ш
(M-6) Micro-Bioretention	#6	14	15,700 Sqft	12,500 Sqft	1,060 Sqft	OK	1,284 cf	1.28		424 cf	Private	
(M-2) Submerged Gravel Wetland		15	226,500 Sqft	148,100 Sqft	16,190 Sqft	OK	25,519 cf	2.16		3484 cf	Private	$\ L$
Total Tr	eated		620,035 Sqft	403,190 Sqft			74,731 cf		9,822 cf	13,446 cf		F



VICINITY MAP

BENCHMARKS							
MBER	NORTHING	EASTING	ELEVATION	DESCRIPTION			
6E1	593,250.960	1,340,192.70	463.981	STAMPED BRASS DISK SET ON TOP OF A 3 FT. DEEP COLUMN OF CONCRETE			
012	596,502.760	1,340,864.37	486.298	STAMPED BRASS DISK SET ON TOP OF A 3 FT. DEEP COLUMN OF CONCRETE			

SITE ANALYSIS [DATA SHEET
ENVIRONMENTAL AREA	SIZE OR USE
TOTAL PROJECT AREA	16.019 ACRES±
LIMIT OF DISTURBANCE	16.019 ACRES±
GREEN OPEN AREA (LAWN)	6.47 ACRES±
IMPERVIOUS AREA	9.55 ACRES±
PROPOSED SITE USES	RESIDENTIAL
WETLANDS	0.00 ACRES±
WETLAND BUFFERS	0.00 ACRES±
FLOODPLAINS	0.00 ACRES±
FLOODPLAIN BUFFERS	0.00 ACRES±
EXISTING FOREST	0.00 ACRES±
SLOPES GREATER THAN 15%	4.46 ACRES±
HIGHLY ERODIBLE SOILS	8.10 ACRES±

SC	OIL C	ONDIT	TIONS
HSG	RCN	AREA	PERCENT
Α	38	10.17 AC.	63%
Ç	70	5.85 AC.±	37%

TOTAL SITE AREA = 16.019 AC.±

HOUSING TYPE CHART

	CENT	ERLIN	VE RO	AD CURVE	DATA
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH
C1	101.10'	810.00"	07°09'05"	N 86°34'25" E	101.03'
C2	100.43'	410.00'	14°02'03"	N 75°58'51" E	100.18'
C3	59.98'	40.00	85°54'42"	N 26°00'28" E	54.52'

.i	ROAD CLASSIFICATION					
ROAD NAME	CLASSIFICATION	PAVING TYPE	DESIGN SPEED	R/W		
VERONA PLACE	ACCESS STREET	P-2	30	50'		
CAPULET LANE	PRIVATE STREET	P-2	25	-		
MONTAGUE LANE	PRIVATE STREET	P-2	25			
TREVISO LANE	PRIVATE STREET	P-2	25	-		
PARMA LANE	PRIVATE STREET	P-2	25	-		
LUCCA LANE	PRIVATE STREET	P-2	25	-		
DANTE LANE	PRIVATE STREET	P-2	25	-		

SHEET INDEX			
SHEET NO.	DESCRIPTION		
1	COVER SHEET		
2	ENVIRONMENTAL CONCEPT PLAN	-	
3	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS		

COVER SHEET THE VILLAGE AT TOWN SQUARE

LOTS 1-96, OPEN SPACE LOT 97, BULK PARCELS A TO D A SUBDIVISION OF PARCEL 8 & A RESUBDIVISION OF TURF VALLEY PROFESSIONAL **BUILDINGS PARCELS J2 & I-3**

ZONED: PGCC

TAX MAP 16 GRID 16 & 17 ND ELECTION DISTRICT

CONSTRUCTION MANAGERS 3300 NORTH RIDGE ROAD

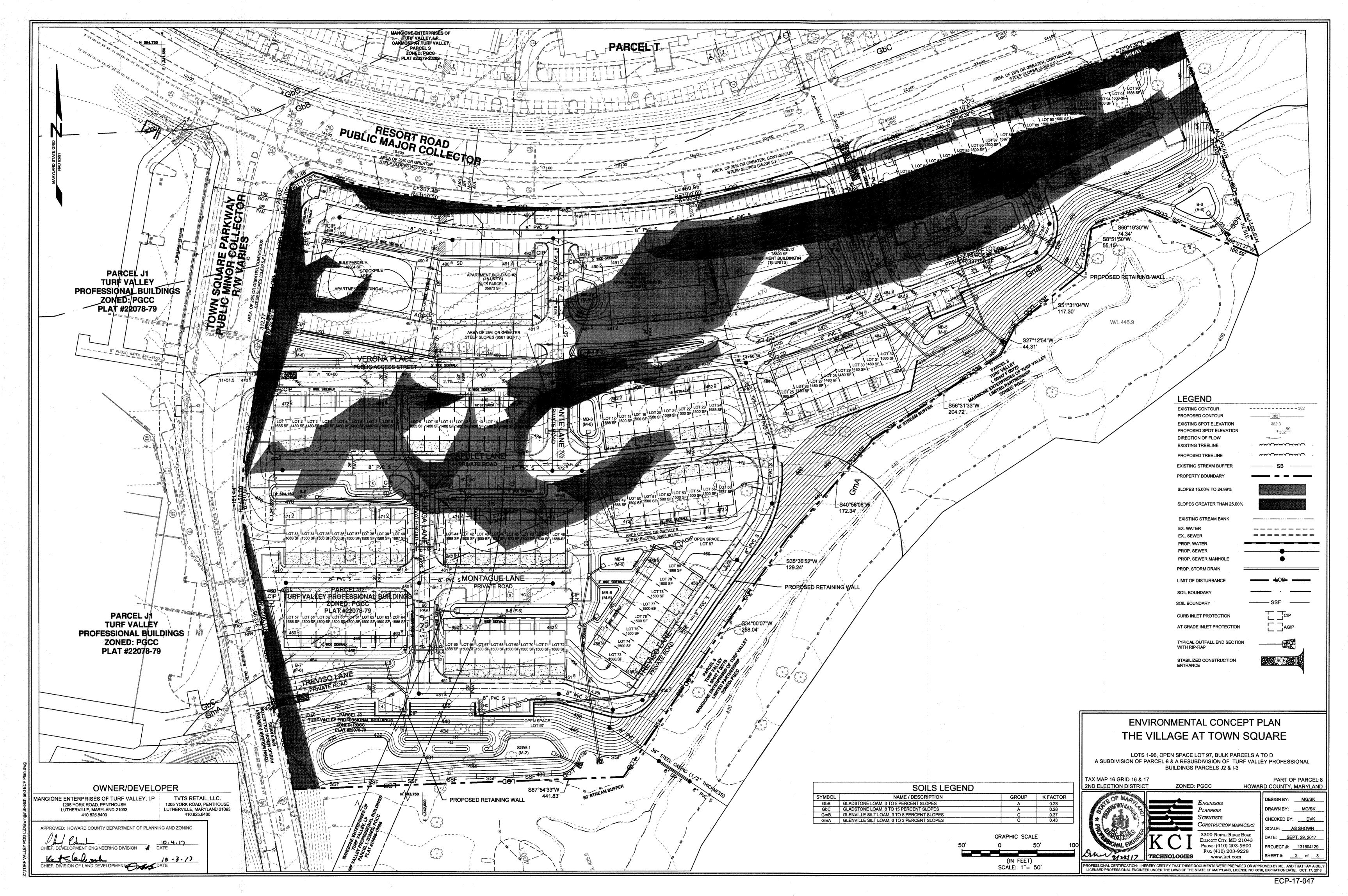
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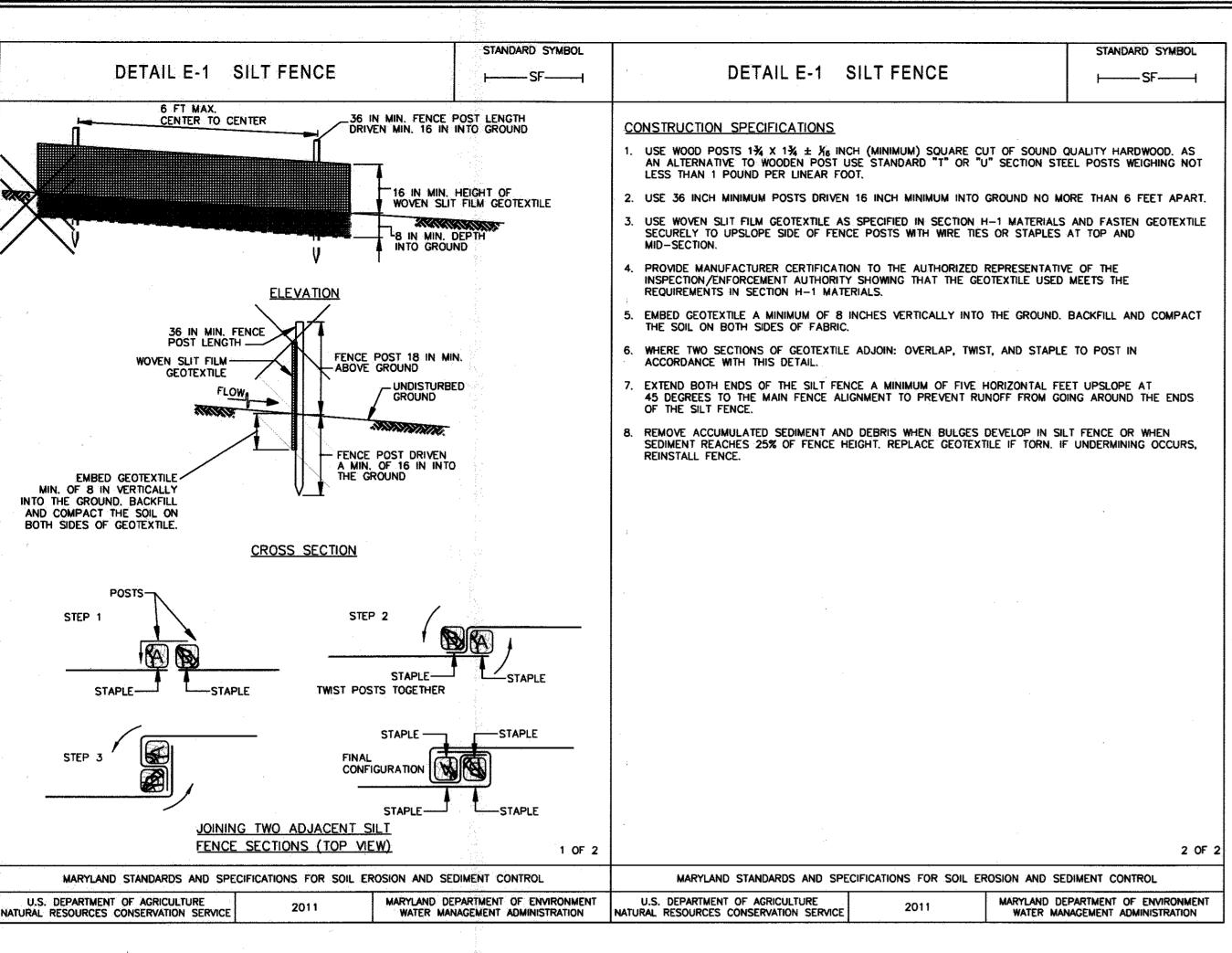
DATE: SEPT. 29, 2017 ELLICOTT CITY, MD 21043 PHONE: (410) 203-9800 PROJECT #: 131604129 Fax: (410) 203-9228

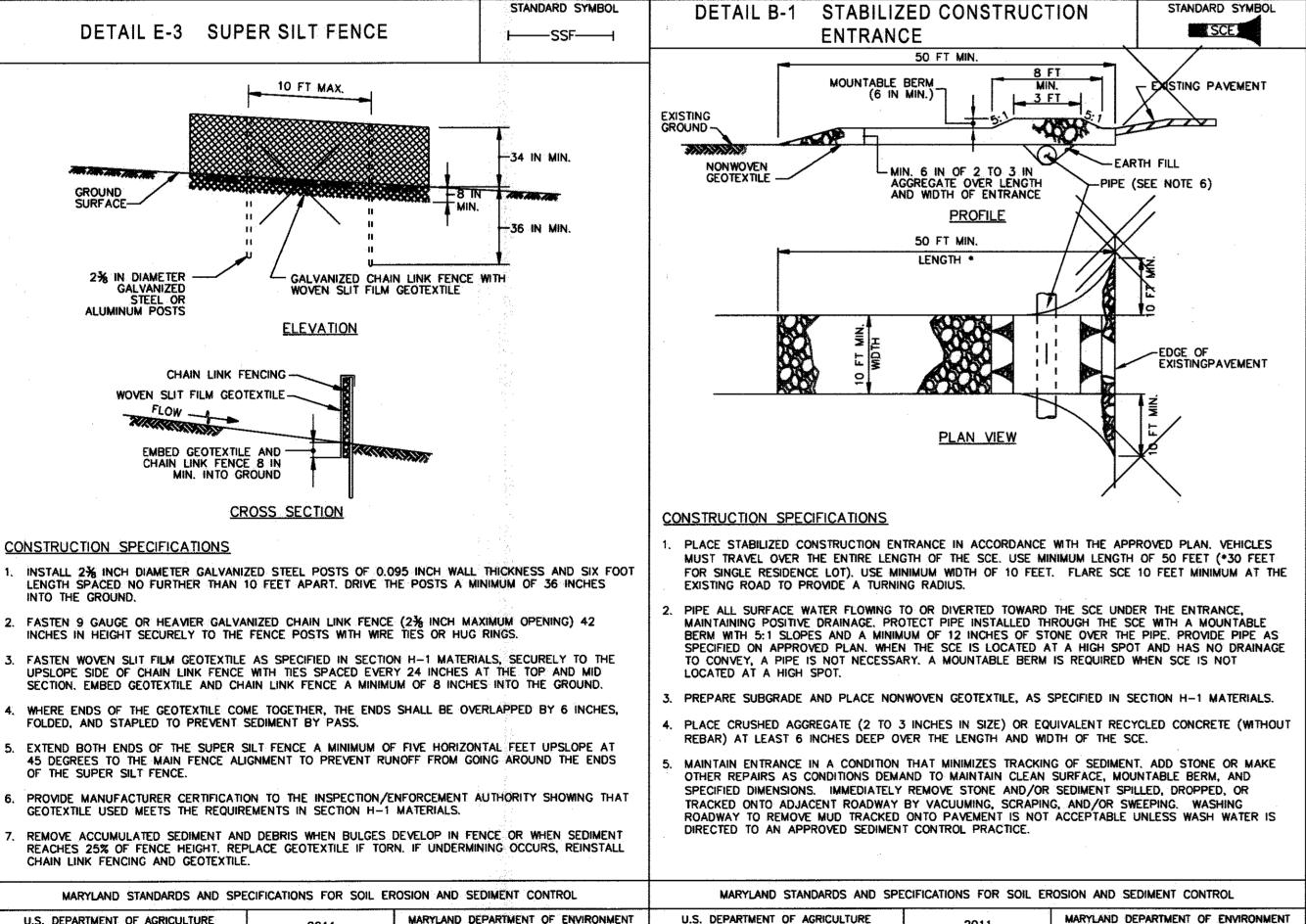
OFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DUL ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 8818, EXPIRATION DATE: OCT. 17, 2018

PART OF PARCEL 8

HOWARD COUNTY, MARYLAND







WATER MANAGEMENT ADMINISTRATION

NATURAL RESOURCES CONSERVATION SERVICE

IATURAL RESOURCES CONSERVATION SERVICE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

STANDARDS AND SPECIFICATIONS FOR TOPSOIL

DEFINITION

PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWTH. SOILS OF CONCERN HAVE LOW MOISTURE CONTENT, LOW NUTRIENT LEVELS, LOW PH, MATERIALS TOXIC TO PLANTS, AND/OR UNACCEPTABLE SOIL GRADATION.

CONDITIONS WHERE PRACTICE APPLIES

- THIS PRACTICE IS LIMITED TO AREAS HAVING 2:1 OR FLATTER SLOPES WHERE:
- A. THE TEXTURE OF THE EXPOSED SUBSOIL/PARENT MATERIAL IS NOT ADEQUATE TO PRODUCE: VEGETATIVE GROWTH.
- B. THE SOIL MATERIAL IS SO SHALLOW THAT THE ROOTING ZONE IS NOT DEEP ENOUGH TO SUPPORT PLANTS OR FURNISH CONTINUING SUPPLIES OF MOISTURE AND PLANT
- **NUTRIENTS** C. THE ORIGINAL SOIL TO BE VEGETATED CONTAINS MATERIAL TOXIC TO PLANT GROWTH.
- D. THE SOIL IS SO ACIDIC THAT TREATMENT WITH LIMESTONE IS NOT FEASIBLE.

I. FOR THE PURPOSE OF THESE STANDARDS AND SPECIFICATIONS, AREAS HAVING SLOPES STEEPER THAN 2:1 REQUIRE SPECIAL CONSIDERATION AND DESIGN FOR ADEQUATE STABILIZATION. AREAS HAVING SLOPES STEEPER THAN 2:1 SHALL HAVE THE APPROPRIATE STABILIZATION SHOWN ON THE PLANS.

CONSTRUCTION AND MATERIAL SPECIFICATIONS

TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATIONS. TYPICALLY, THE DEPTH OF TOPSOIL TO BE SALVAGED. FOR A GIVEN SOIL TYPE CAN BE FOUND IN THE REPRESENTATIVE SOIL PROFILE SECTION IN THE SOIL SURVEY PUBLISHED BY USDA-SCS IN COOPERATION WITH MARYLAND AGRICULTURAL EXPERIMENTAL STATION.

- II. TOPSOIL SPECIFICATIONS SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:
- i. TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR A SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURED SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS, TRASH, OR OTHER MATERIALS LARGER THAN 1.5-INCH IN DIAMETER.
- II. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS, SUCH AS BERMUDA GRASS QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- iii. WHERE THE SUBSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.
- III. FOR THIS SITE, WHICH HAS A DISTURBED AREA UNDER 5 ACRES:
- i. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION - SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- IV. FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES: I. ON SOIL MEETING TOPSOIL SPECIFICATIONS, OBTAIN TEST RESULTS DICTATING FERTILIZER AND LIME AMENDMENTS
- REQUIRED TO BRING THE SOIL INTO COMPLIANCE WITH THE FOLLOWING: A. PH FOR TOPSOIL SHALL BE BETWEEN 6.0 AND 7.5. IF THE TESTED SOIL DEMONSTRATES A PH PF LESS THAN 6.0. SUFFICIENT LIME SHALL BE PRESCRIBED TO RAISE THE PH TO 6.5 OR HIGHER.
- B. ORGANIC CONTENT OF TOPSOIL SHALL BE NOT LESS THAN 1.5 PERCENT BY WEIGHT. C. TOPSOIL HAVING SOLUBLE SALT CONTENT GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED. D. NO SOD OR SEED SHALL BE PLACED ON SOIL. SOIL WHICH HAS BEEN TREATED WITH SOIL STERILANTS OR CHEMICALS USED FOR WEED CONTROL UNTIL SUFFICIENT TIME HAS ELAPSED (14DAYS MIN.) TO PERMIT DISSIPATION OF
- NOTE: 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.
- II. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMMENDMENTS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION-SECTION I-VEGETATIVE STABILIZATION METHODS AND METERIALS.

V. TOPSOIL APPLICATION

WATER MANAGEMENT ADMINISTRATION

PHYTO-TOXIC MATERIALS.

- I. WHEN TOPSOILING, MAINTAIN NEEDED EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, SILT FENCE, SEDIMENT TRAPS AND BASINS.
- ii. GRADES ON THE AREAS TO BE TOPSOILED, WHICH HAVE BEEN PREVIOUSLY ESTABLISHED. SHALL BE MAINTAINED. ALBEIT 4" - 8" HIGHER IN FLEVATION.
- iii. Topsoil shall be uniformly distributed in a 4" 8" layer and lightly COMPACTED TO A MINIMUM THICKNESS OF 4". SPREADING SHALL BE PERFORMED IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH MINIMUM ADDITIONAL SOIL PREPARATION AND TILLAGE. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.
- iv. Topsoil shall not be placed while 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.

PERMANENT SEEDING NOTES

following schedules:

Ryegrass 25 lbs PLS/acre.

ft.) for anchoring.

lbs/1000 sq. ft.).

or use sod.

anchorina.

covered.

replacements and reseedings.

short-term vegetative cover is needed

seed - Redtop 3 lbs PLS/gcre.

Supplemental seed - Redtop 3 lbs PLS/acre.

mixture during the spring seeding season.

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

1. Preferred - Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq.

ft.) and 600 lbs/acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of

seeding, apply 400 lbs/acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.

2. Acceptable - Apply 2 tons/acre dolomitic limestone (92 lbs/1000 sq.

ft.) and 1000 lbs/acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before

Seeding - For the periods March 1 - April 20, and August 1 - October

Seed Mixture No. 1 - (relatively flat areas regularly mowed and exposed

to normal conditions) with 192 lbs PLS/acre of 85% certified turf-type

Ibs PLS/acre of 5% Perennial Ryegrass. Supplemental seed - Annual

Fescue and 7 lbs PLS/acre of 5% Kentucky Bluegrass. Supplemental

Tall Fescue, 28 lbs PLS/acre of 10% certified Kentucky Bluegrass and 14

Seed Mixture No. 2 - (sloped areas not subject to regular mowing) with

85 lbs PLS/acre of 75% Hard Fescue, 23 lbs PLS/acre of 20% Chewings

Seed Mixture No. 3 - (wetland areas and their associated buffer zones)

with 83 lbs PLS/acre of 60% Fowl Meadow Grass, 34 lbs PLS/acre of

30% Chewings Fescue and 14 lbs PLS/acre of 10% Perennial Ryegrass.

Seeding performed after October 20 should be a temporary cover of

annual ryearass and followed by overseeding of the appropriate seed

Mulching - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq.

mulch immediately after application using mulch anchoring tool or 218

On slope 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.

Maintenance - Inspect all seeding areas and make needed repairs,

Apply to graded or cleared areas likely to be re-disturbed where a

Seedbed preparation: - Loosen upper three inches of soil by raking.

disking or other acceptable means before seeding, if not previously

Soil Amendments: - Apply 600 lbs/acre 10-10-10 fertilizer (14

Seeding: - For periods March 1 - April 30 and from August 1 -

November 30, inclusive, seed with 2-1/2 bushel per acre of Annual

Rye/Redtop (3.2 lbs/1000 sq. ft.). For the period May 1 - July 31.

November 16 - February 28, protect site by applying 2 tons/acre of

inclusive, seed with 13.6 lbs PLS/ocre of Little Bluestern. For the period

Mulching: - Apply 1-1/2 to 2 tons/acre (70 to 90 lbs/1000 sq. ft.) of

On slope 8 ft. or higher, use 348 gol. per acre (8 gol/1000 sq. ft.) for

Refer to the "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

EROSION AND SEDIMENT CONTROL" for additional rates and methods not

unrotted weed-free, small grain straw immediately after seeding. Anchor

mulch immediately after application using mulch anchoring tool or 218

gal. per acre (5 gal/1000 sq. ft.) of emulsified asphalt on flat areas.

TEMPORARY SEEDING NOTES

gallons per ocre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas.

ft.) of unrotted small grain straw immediately after seeding. Anchor

seeding. Harrow or disk into upper three inches of soil.

20, inclusive, seed the appropriate seed mixtures:

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 most current MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT Soil Amendments: In lieu of soil test recommendations, use one of the CONTROL and revisions thereto.

> 3. 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.

1. A minimum of 48 hours notice must be given to the Howard County Department

of Inspections, Licenses and Permits, Sediment Control Division prior to the start of

4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol 1. Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.

SEDIMENT CONTROL NOTES

any construction (313-1855).

5. 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), temporary 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.

6. 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.

7. Site Analysis: Total Area of Site 16.019 Acres Area Disturbed: 16.019 Acres Area to be roofed or paved: 9.55 Acres Area to be vegetatively stabilized: 6.47 Acres Total Cut: TBD Cu. Yds Total Fill: TBD Cu. Yds.

Excess/Borrow material to be hauled to/from an approved site.

8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

9. Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.

10. 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 agency is made.

11. Trenches for the construction of utilities is limited to three pipe lengths or that which shall be back-filled and stabilized by the end of each work day, whichever is

12. Any changes or revisions to the sequence of construction must be reviewed and approved by the plan approval authority prior to proceeding with construction.

13. 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 be 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.

SEQUENCE OF CONSTRUCTION Obtain grading permit. 1 DAY Notify Howard County Bureau of Inspections and Permits (313-1880) at least 48 hours before starting any work Construct stabilized construction entrance 1 DAY Install super silt fence as shown on the drawing 2 DAY

Construct roads and storm drain structures Install inlet protections as shown on the drawings Construct all improvements

Rough grade site.

11. With approval of Inspector, remove sediment control devices.

10. Stabilize all disturbed areas with seed and mulch

With Inspector's approvals, clear and grub site to LOD.

OWNER/DEVELOPER

MANGIONE ENTERPRISES OF TURF VALLEY, LP 1205 YORK ROAD, PENTHOUSE **LUTHERVILLE, MARYLAND 21093**

410.825.8400

TVTS RETAIL, LLC. 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 410.825.8400

DURATION

1 DAY

3 WEEK

6 WEEK

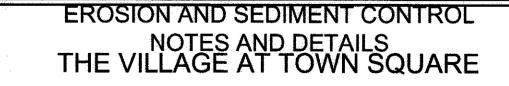
15 WEEKS

40 WEEKS

2 WEEKS

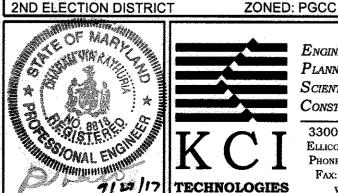
1 WEEK

1 DAY



LOTS 1-96, OPEN SPACE LOT 97, BULK PARCELS A TO D A SUBDIVISION OF PARCEL 8 & A RESUBDIVISION OF TURF VALLEY PROFESSIONAL

BUILDINGS PARCELS J2 & I-3 TAX MAP 16 GRID 16 & 17 PART OF PARCEL 8



CONSTRUCTION MANAGERS 3300 NORTH RIDGE ROAD ELLICOTT CITY, MD 21043 PHONE: (410) 203-9800 Fax: (410) 203-9228

CHECKED BY: DVK SCALE: AS SHOWN www.kci.com

DATE: <u>SEPT. 29, 2017</u> PROJECT#: 131604129 SHEET #: 3 of 3

HOWARD COUNTY, MARYLAND

DESIGN BY: MG/SK

DRAWN BY: MG/SK

ICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 8818, EXPIRATION DATE: OCT. 17, 2018

GRAPHIC SCALE

(IN FEET) SCALE: 1"= 50'