#### GENERAL NOTES

) the existing topography shown onsite is based on an Aerial topographic survey performed

4.) THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT

5.) WATER IS PUBLIC. THE CONTRACT NUMBER IS 24-4550-D. THE DRAINAGE AREA IS LITTLE PATUXENT. 7) STORMWATER MANAGEMENT QUALITY AND QUANTITY CONTROL IS PROVIDED BY SWMF#2 (EXTENDED DETENTION FACILITY WITH MICROPOOL AND OFFLINE RECHARGE CHAMBER) CONSTRUCTED UNDER PHASE 1 SECTION (F-08-060) AND SWMF#3 (EXTENDED DETENTION FACILITY WITH MICRO-POOL) CONSTRUCTED UNDER UNDER PHASE 2, SECTION 1 (F-08-084). BOTH FACILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED.

10.) NOISE STUDY WAS PREPARED BY POLYSONICS DATED NOVEMBER, 2007 AND REVISED IN MAY, 2008. THE 65 dBA 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 65 dBA NOISE LINE WAS ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.

11.) NO GEOTECHNICAL REPORT IS REQUIRED FOR VILLAGES AT TURF VALLEY, PHASE 3.

12.) THE SUBJECT PROPERTY IS ZONED PGCC PER THE 2-2-2004 COMPREHENSIVE ZONING PLAN AND THE "COMP LITE" ZONING AMENDMENTS EFFECTIVE 7-28-2006.

13.) TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO BURIAL GROUNDS, CEMETERIES OR HISTORIC STRUCTURES LOCATED ON THIS SITE.

15.) THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY

16.) DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW

B) SURFACE — 6" OF COMPACT CRUSHER RUN BASE WITH TAR AND CHIP COATING (1.5" MIN.) C) GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE & MIN. 45' TURNING RADIUS. D) STRUCTURES(CULVERTS/BRIDGES) -- CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOAD) ) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOODPLAIN WITH NO MORE THAN

F) STRUCTURE CLEARANCES - MINIMUM 12 FEET. ) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.

14.) THIS PROJECT IS LOCATED WITHIN THE METROPOLITAN DISTRICT

17.) LANDSCAPING FOR THIS SUBDIMISION IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN INCLUDED WITH THIS ROAD CONSTRUCTION PLAN SET IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$11,250.00 (\$5,700.00 FOR 19

18.) THIS PROJECT IS EXEMPT FROM HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS UNDER SECTION 16.1202(b)(1)(iv) OF THE COUNTY CODE SINCE IT IS A PLANNED UNIT DEVELOPMENT WHICH HAD PRELIMINARY DEVELOPMENT PLAN APPROVAL AND 50% OR MORE OF THE LAND WAS RECORDED AND

SUBSTANTIALLY DEVELOPED BEFORE 12-31-1992. 19.) THERE ARE NO EXISTING STRUCTURES LOCATED WITHIN THE LIMITS OF VILLAGES AT TURF VALLEY, PHASE

20.) RESERVATION OF PUBLIC UTILITY EASEMENTS
DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAN FOR WATER, SEWER, STORM DRAINAGE, OTHER PUBLIC UTILITIES, LOCATED IN, ON, OVER AND THROUGH LOTS 114-172 AND OPEN SPACE LOTS 173-176, ANY CONVEYANCES OF THE AFORESAID LOTS/PARCELS SHALL BE SUBJECT TO THE FASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOT(S)/PARCELS. UPON COMPLETION OF THE PUBLIC UTILITIES THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED(S) OF EASEMENT IN THE LAND RECORDS OF HOWARD COUNTY.

AND/OR SEWER SERVICE HAS BEEN GRANTED UNDER THE TERMS AND PROVISIONS, THEREOF, EFFECTIVE T.B.D. ON WHICH DATE DEVELOPER AGREEMENT #24-4550-D WAS FILED AND ACCEPTED.

22.) THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF

23.) THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.

24.) STREET LIGHT PLACEMENT AND TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." A MINIMUM SPACING OF 20 FEET SHALL BE MAINTAINED BETWEEN

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

26.) ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT-OF-WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE POST (14 GAUGE) INSERTED INTO A 2-1/2" GALVANIZED STEEL, PERFORATED, SQUARE TUBE SLEEVE (12 GAUGE)-3' LONG. A GALVANIZED STEEL POLE CAP

27.) THIS PROJECT IS SUBJECT TO THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS AND THE ZONING REGULATIONS EFFECTIVE APRIL 13, 2004. PER SECTION 126(H)(1), PLANNING BOARD APPROVAL IS REQUIRED FOR THE SITE DEVELOPMENT PLAN FOR THIS PROJECT. 28.) ALL PROPOSED ALLEYS SERVING UNITS WITH REAR LOAD GARAGES (LOTS 131-149, 155-163 & 167-172) ARE PRIVATE. THEY WILL BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.

THIS PROJECT IS SUBJECT TO THE TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, INC. UNDER

PARKING REQUIREMENTS AS PER ZONING SECTION 133.D(3): AND TABLE 2.11 OF DAY III:

2 SPACES PER DWELLING UNIT + 0.3 SPACES PER DWELLING UNIT FOR OVERFEW

REQUIRED: 59 UNITS x 23 = 136
PROVIDED: 59 UNITS X 4 ( DRIVE WAYS & GARAGES) + 16 SPACES ( CROCKED RIVER CANE) = 252 36) THE VILLAGES AT TURF VALLEY SUBDIVISION (PHASES 1-4) CONSTITUTED 220 TOTAL UNITS (145 SFA, 33 SFD, AND 42 CONDOMINIUM), WHICH MEETS THE SKETCH PLAN MILESTONE DATE OF JANUARY 1, 2001 THROUGH JUNE 30, 2002 FOR BOTH PHASE IVA (131 UNITS) & IVB (110 UNITS) AS ESTABLISHED BY THE REVISED PHASING PLAN DATED JUNE 21, 2000. UNDER P-06-013, 42 CONDOMINIUM UNITS WERE APPROVED BUT WERE USED FOR OAKMONT AT TURF VALLEY (F-02-082). THESE 42 CONDOMINIUM UNITS WERE NOT PREVIOUSLY INCLUDED WITH THE OAKMONT AT TURF VALLEY (F-02-82) PLANS. IN ORDER TO RECEIVE BUILDING ALLOCATIONS, THESE 42 CONDOMINIUM UNITS WERE SHOWN AND APPROVED ON THE PRELIMINARY PLAN FOR THE VILLAGES AT TURF VALLEY (P-06-013). THE SECOND AMENDMENT TO THE TURF VALLEY MULTI-USE FINAL DEVELOPMENT PLAN WAS RECORDED ON NOVEMBER 30, 2007 (PLATS 19578-19580), INCREASING THE PROJECTED UNITS IN THE OAKMONT AT TURF VALLEY AREA FROM 150 TO 200. AS A RESULT, THOSE 42 UNITS ARE NO LONGER A PART OF THE VILLAGES AT TURF VALLEY WHICH LEAVES UNIT TOTAL AT 178. HOWEVER, WITH THE APPROVAL OF WP-08-009 AN ADDITIONAL 21 UNITS WERE ADDED TO THE VILLAGES AT TURF VALLEY. THE FINAL UNIT TOTAL FOR THIS SUBDIVISION COMES TO 199.

# VILLAGES AT TURF VALLEY

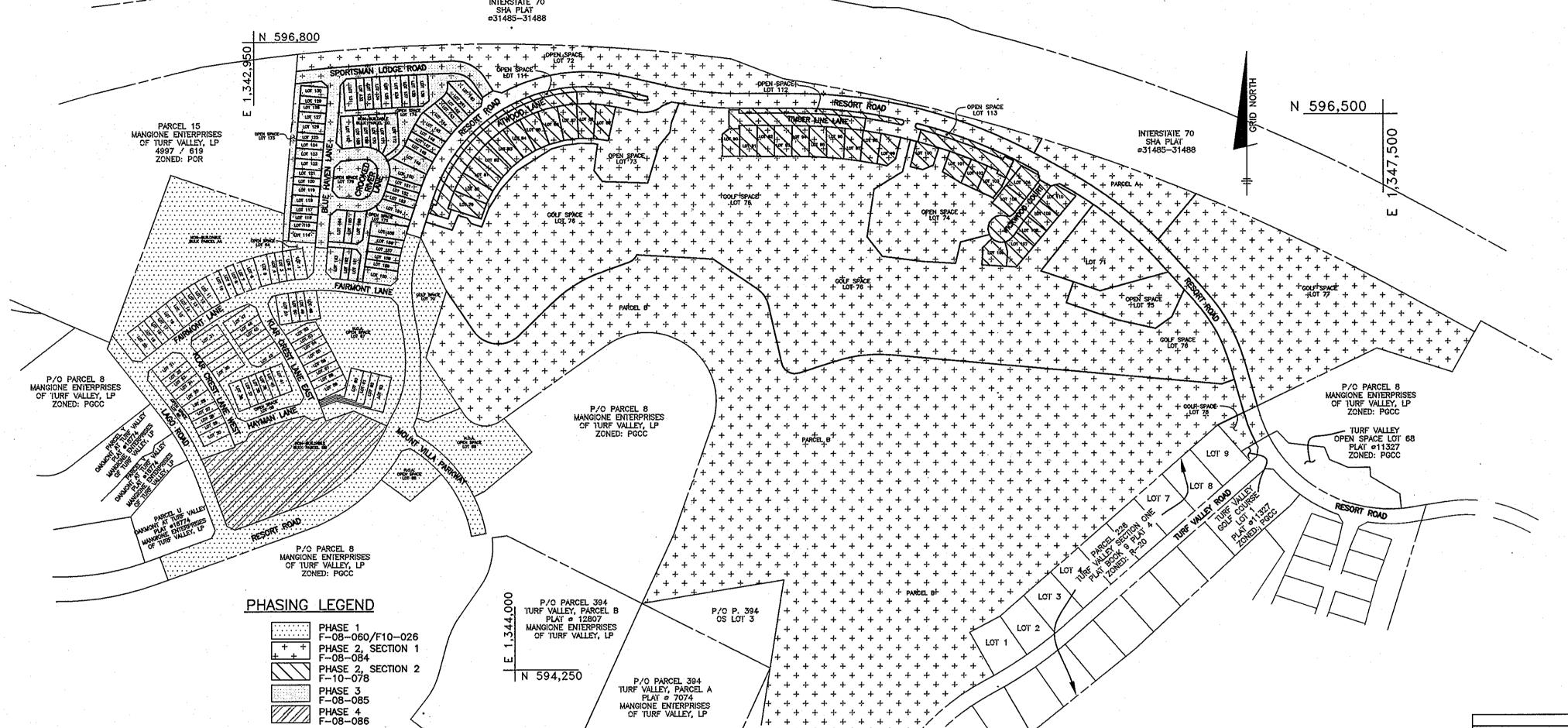
# PHASE 3

# ROADS, STORMWATER MANAGEMENT AND STORM DRAIN CONSTRUCTION PLANS

BENCHMARKS NAD'83 HORIZONTAL HO. CO. #16E1 (AKA: 3438001) STAMPED BRASS DISK SET ON TOP OF A 3 DEEP COLUMN OF CONCRETE. N 593250.960' E 1340192.70' ELEVATION: 463.981' HO. CO. #0012 (AKA: 3439001) STAMPED BRASS DISK SET ON TOP OF A 3' DEEP COLUMN OF CONCRETE. N 596502.760' E 1340864.37'

**ELEVATION: 486.298'** 

SCALE: 1" = 2000'



**OPEN SPACE CALCULATIONS** Phase 1 Phase 1 Phase 2
Section 1 Section 2\* Section 1\*\* Total 27.75 157.59 191.59 Gross Area 28.74 0.94 4.16 23.64 15% of gross Open Space Provided 2.58 59.82 2.11 71.55 Non-Credited (less than 35' in width) 0.00 0.86 0.35 1.09 3.85 2.58 59.47 0.00 67.70 Total Credited Open Space Provided 38.96 1.64 0.93 35.83 0.00 0.56 Above Requirement

5.) TOTAL NUMBER OF LOTS ALLOWED PER ZONING....... N/A

SITE ANALYSIS DATA CHART

GENERAL SITE DATA

AREA TABULATION

1.) GROSS TRACT AREA .

7.) AREA OF BUILDABLE LOTS

\*\* This includes area for Phase 2, Section2 (Non-Builable Bulk Parcels DD, EE & FF,

**BENCHMARK** 

ENGINEERS A LAND SURVEYORS A PLANNERS

ENGINEERING, INC.

(P) 410-465-6105 (F) 410-465-6644

50 THOMAS JOHNSON DRIVE A FREDERICK, MARYLAND 21702

WWW.BEI-CIVILENGINEERING.COM

SCALE:

and area for Phase 3 (Non-Buildable Bulk Parcel CC)

AREA OF OPEN SPACE LOTS \_

1.) PRESENT ZONING:\_

3.) PROPOSED USE OF SITE:\_

2.) APPLICABLE DPZ FILE REFERENCES:

2.) AREA WITHIN 100-YEAR FLOODPLAIN.

6.) TOTAL NUMBER OF RESIDENTIAL UNITS/LOTS

AREA OF NON-BUILDABLE BULK PARCELS\_\_\_

AREA OF PUBLIC RIGHT-OF-WAY \_\_\_\_\_

4.) PROPOSED WATER AND SEWER SYSTEMS: \_\_

P/O PARCEL 394

TURF VALLEY, PARCEL E PLAT # 12988 MANGIONE ENTERPRISES

24') PRIOR TO GRADING PERMIT APPLICATION, THE PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 16.129 OF THE HOWARD COUNTY CODE.

NOISE WALLS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOMEOWNERS

VILLAGES	AT TURF	VALLEY PHA	SING CHART	
PHASE	S.F.A.	S.F.D.	CONDOMINIUM	TOTAL
1 (F10-026)	0	0	0	0
1 (F-08-060)	63	0	0	63
2 (F-08-084)	<sup>*</sup> 0	0 .	42	42
2 (F-10-078)	0	32	0	32
3 (F-08-085)	59	0	0	59
4 (F-08-086)	23	0	0	23
MAINT SHOP (SDP-08-096)	0	0	1 (Access. Apt.)	1
TOTAL	145	32	43	220

NO.	TITLE
. 1	TITLE SHEET
2	ROAD PLAN AND PROFILE - BLUE HAVEN LANE/CROOKED RIVER LANE
3	ROAD PLAN AND PROFILE - SPORTSMAN LODGE ROAD
4	CURB RETURN FILLET PROFILES
5	GRADING, SEDIMENT AND EROSION CONTROL PLAN
6	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
7	LANDSCAPE AND STREET TREE PLAN
8	STORM DRAIN PROFILES & DETAILS
9	STORM DRAIN DRAINAGE AREA MAP
10	STREET LIGHT, SIGNAGE AND STRIPING PLAN
11 -	NOISE WALL PLAN AND PROFILE

ALL USES AS PER TURF VALLEY PGCC DISTRICT, MULTI-USE SUBDISTRICT FINAL DEVELOPMENT PLAN, SECOND AMENDMENT, PLATS 19578-19580. (46 USES OUTLINED FROM RESIDENTIAL USES TO SPECIALTY STORES) PERMITTED USES : PERMITTED HEIGHT: SINGLE-FAMILY DETACHED AND ATTACHED - 34 FEET

APARTMENT BUILDINGS - 80 FEET

OTHER - IS FEET

ACCESSORY STRUCTURES - 15 FEET MAXIMUM DENSITY FOR TOTAL PGCC DISTRICT IS 2.0 DWELLING UNITS PER ACRE. MAXIMUM UNITS PER STRUCTURE:

1. SINGLE FAMILY ATTACHED 8 UNITS PER STRUCTURE

2. APARTMENTS LESS THAN 40 FEET IN HEIGHT 24 UNITS PER STRUCTURE

BULK REGULATIONS

REAR TO FACE \_\_\_

APARTMENTS 40 FEET OR GREATER IN HEIGHT 120 UNITS PER STRUCTURE MINIMUM LOT SIZE REQUIREMENTS: LOTS 115-117\ SINGLE FAMILY DETACHED EXCEPT ZERO LOT LINE DWELLINGS 4,000 SQ.FT.
SINGLE FAMILY SEMI-DETACHED 4,000 SQ.FT. LOTS 120-121 \ MINIMUM LOT SIZE PROPOSED (SINGLE FAMILY ATTACHED: 3,520 SQ. FT, COTS 128-129) MAXIMUM BUILDING LENGTH FOR RESIDENTIAL STRUCTURE = 120 FEET, UNLESS APPROVED BY PLANNING BOARD TO A MAXIMUM OF 300 FEET. PERMITTED SETBACKS: FROM ARTERIAL ROADS:

RESIDENTIAL STRUCTURES\_\_\_\_\_50 FEET ACCESSORY USES......30 FEET FROM COLLECTORS AND LOCAL STREETS: RESIDENTIAL AND NON-RESIDENTIAL STRUCTURES\_\_\_ FROM NON-PGGC ADJACENT PROPERTIES: FROM RESIDENTIAL DISTRICTS 75 FEET FROM ALL OTHER DISTRICTS 30 FEET

FROM LOT LINES WITHIN PGCC MULTI-USE SUBDISTRICT ZERO LOT LINE AND ALL OTHER USES - SIDE \_\_\_\_\_\_\_ O FEET A MINIMUM OF 15 FEET MUST BE PROVIDED BETWEEN STRUCTURES SINGLE-FAMILY DETACHED - SIDE 7.5 F
BETWEEN ATTACHED DWELLING UNITS AND APARTMENT BUILDINGS: FACE TO FACE \_\_\_\_\_\_\_ 30 FEET FACE TO SIDE/REAR TO SIDE\_\_\_\_ 30 FEET SIDE TO SIDE REAR TO REAR ... \_\_\_ 60 FEET

THERE IS A 60% MAXIMUM LOT COVERAGE REQUIREMENT FOR SFA LOTS AND NO SPECIFIED COVERAGE REQUIREMENT FOR APARTMENTS.

NO. DATE

MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 410-825-8400

DEVELOPER: MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP 1205 YORK ROAD, PENTHOUSE

LUTHERVILLE, MARYLAND 21093

410-825-8400

REVISION were prepared or approved by me, and that I am a duly licensed professional engineerings file anys of the State of Maryland, License No. 0143 Estate of Date: 12-21-2010. 8480 BALTIMORE NATIONAL PIKE & SUITE 418 & ELLICOTT CITY, MARYLAND 21043

S-86-13, P-06-13, S-03-001, SP-05-074 WP-05-074, WP-08-009, F-08-060, F-08-084, F-10-026,

F-10-078

\_\_\_\_\_ 2.11± AC.

\_\_\_\_ 2.40± AC.

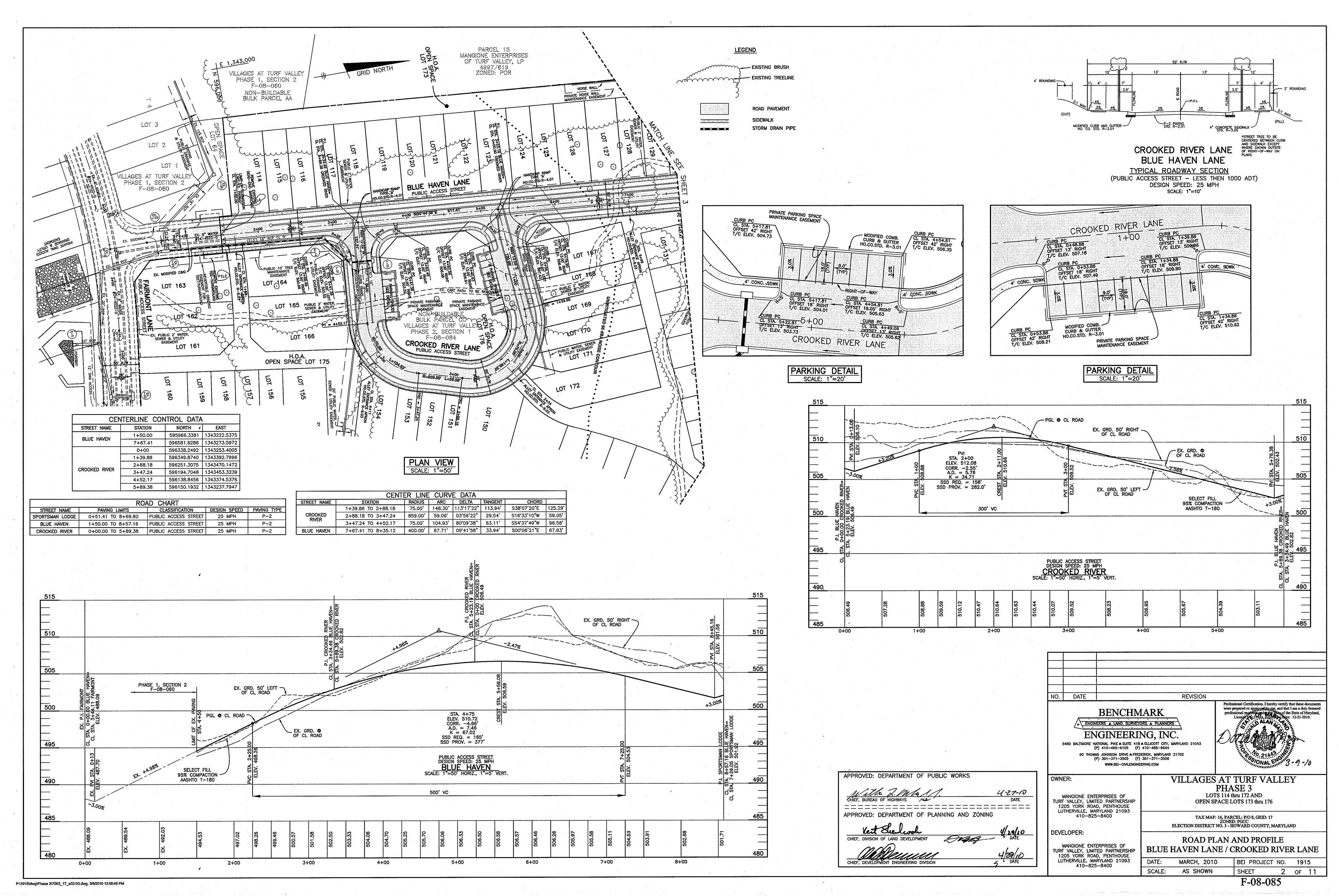
VILLAGES AT TURF VALLEY PHASE 3 LOTS 114 thru 172 AND OPEN SPACE LOTS 173 thru 176

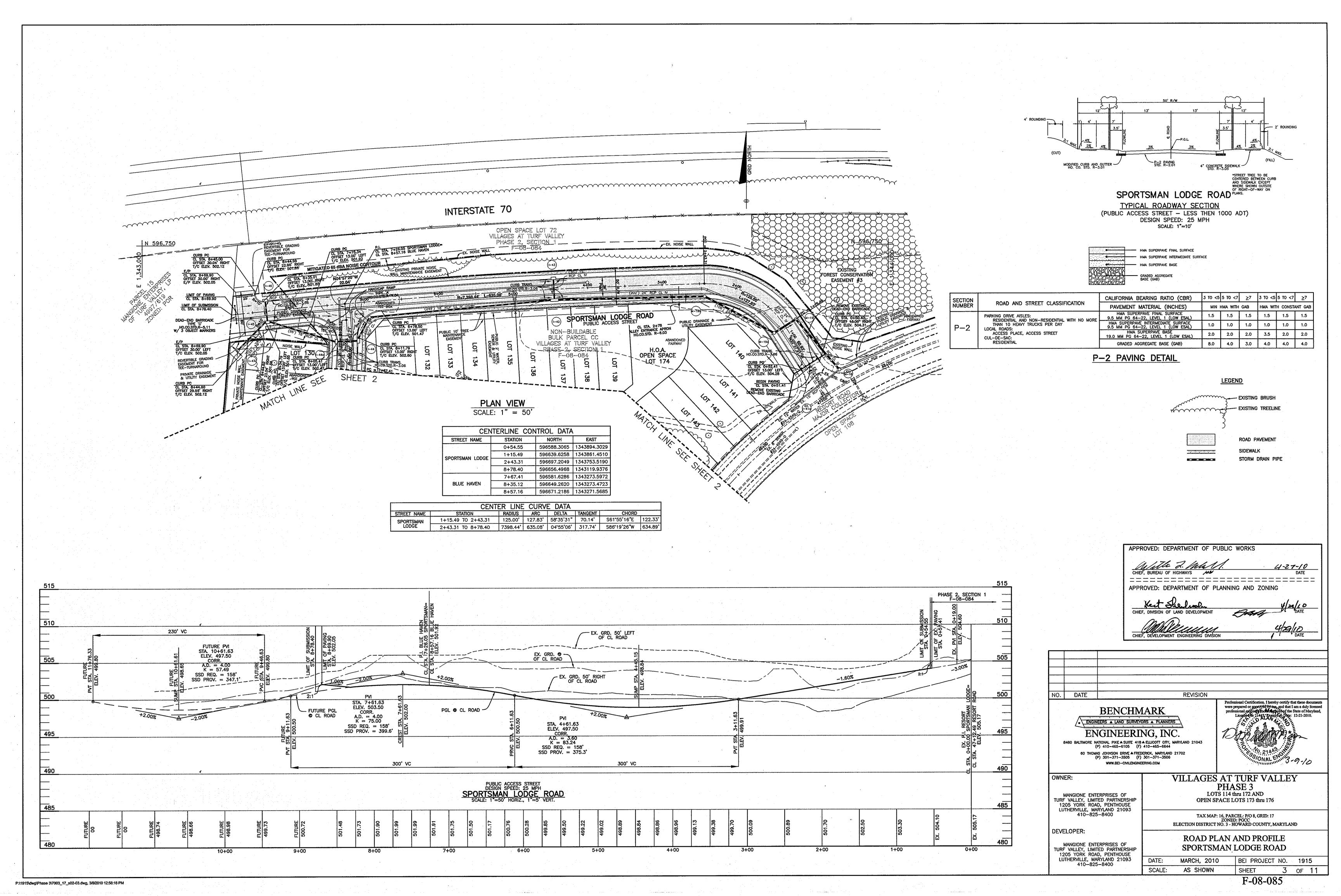
TAX MAP: 16, PARCEL: P/O 8, GRID: 17 ZONED: PGCC ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND

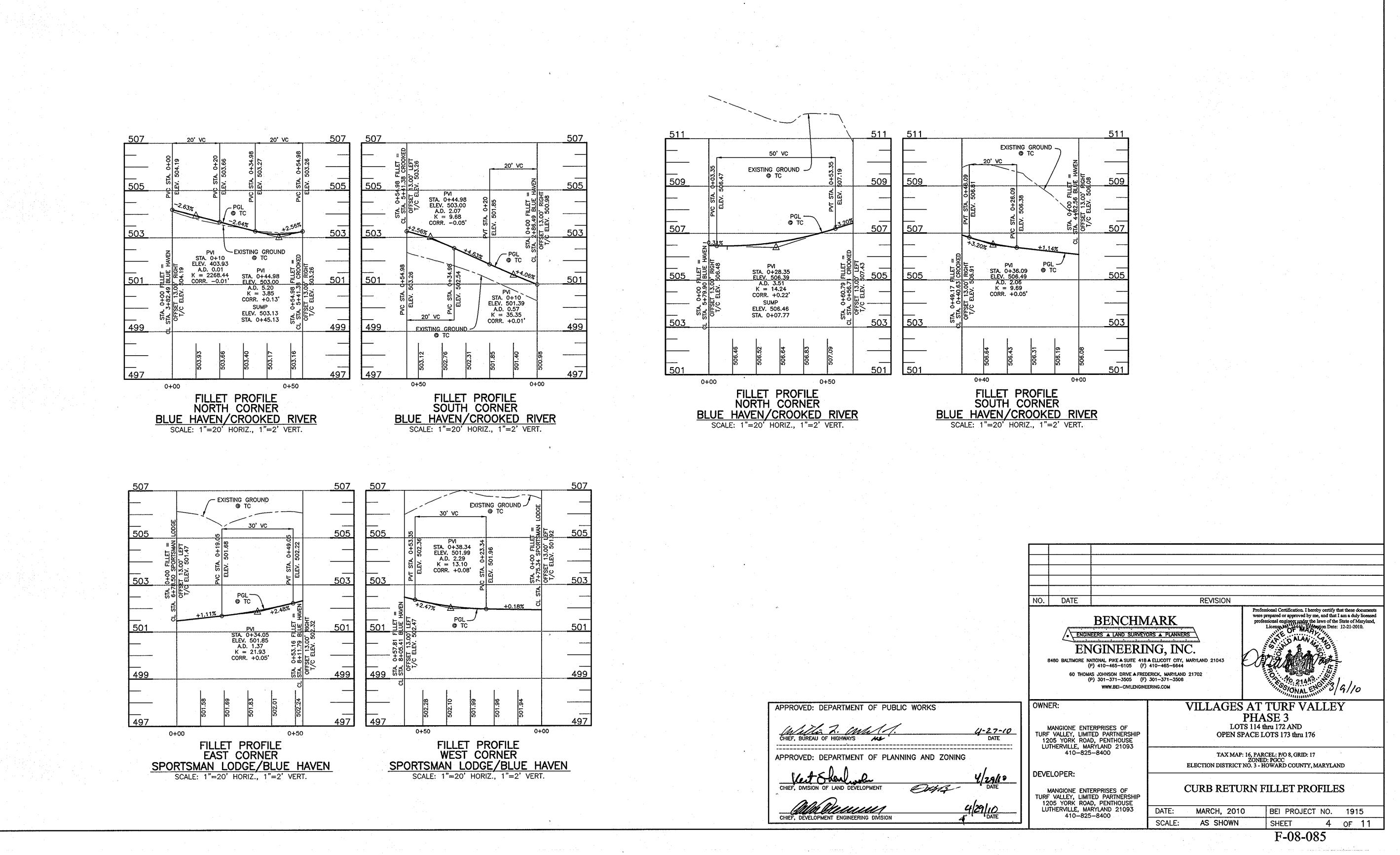
TITLE SHEET BEI PROJECT NO. 1915 MARCH, 2010 AS SHOWN SHEET 1 OF 11

F-08-085

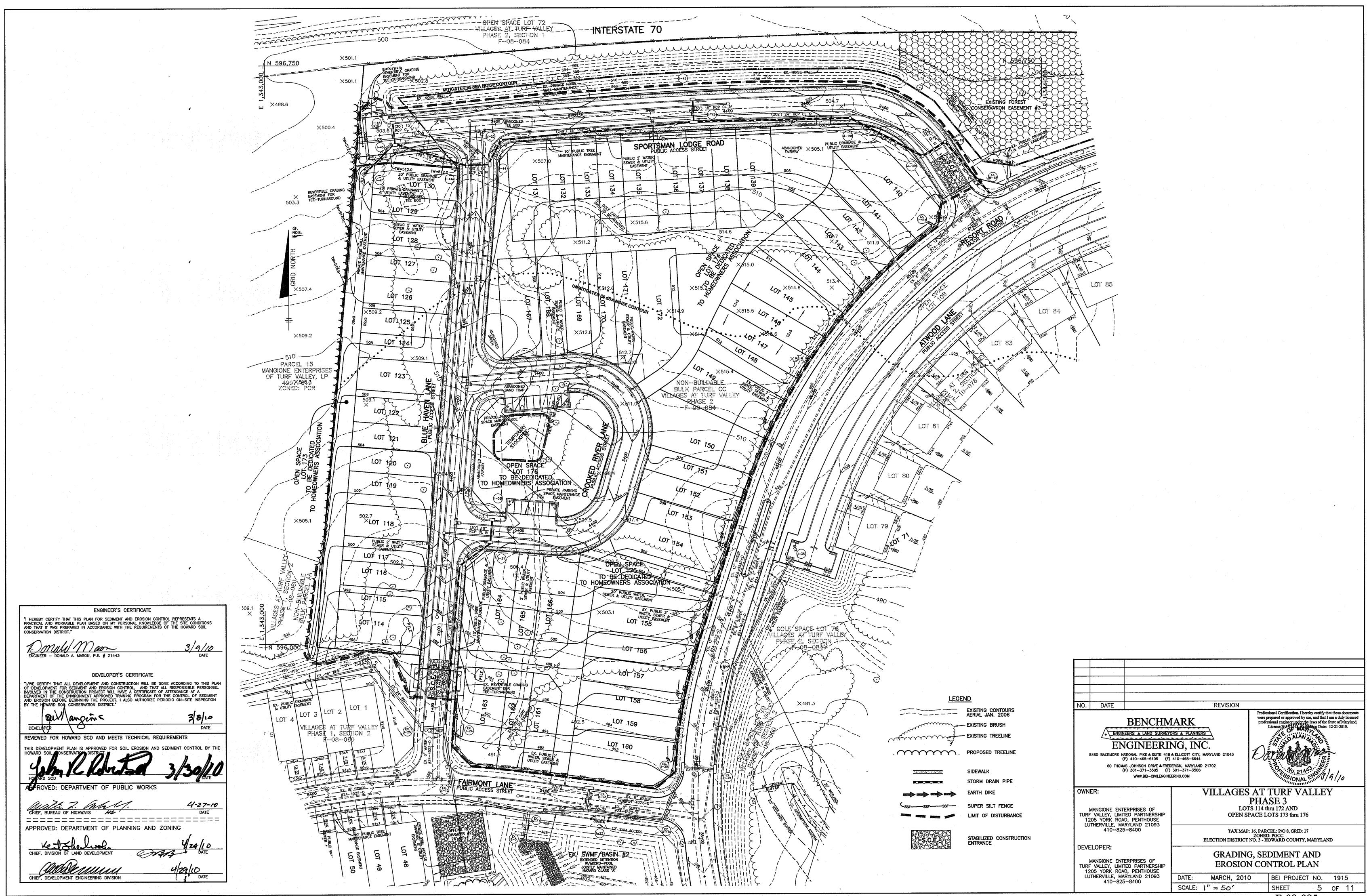
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#### SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 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, (313-1850).
- 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 SPECIFICATION FOR SOIL EROSION AND SEDIMENT
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 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
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). 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.

#### 7. SITE ANALYSIS:

TOTAL AREA OF SITE	11.38 ACRES
AREA DISTURBED	11.67 ACRES
AREA TO BE ROOFED OR PAVED	2.40 ACRES
AREA TO BE VEGETATIVELY STABILIZED	9.27 ACRES
TOTAL CUT	69,061 <sub>CY</sub>
TOTAL FILL	11,363 <sub>CY</sub>
OFFSITE WASTE AREA LOCATION	N/A

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.

INSPECTION AGENCY IS MADE.

- 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
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY,

## TEMPORARY SEEDBED PREPARATIONS

APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED, SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES, 8 FT, OR HIGHER, USE 348 GÁLLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

# PERMANENT SEEDBED PREPARATIONS

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED. SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

- PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER
- ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) LISE SOD, OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GÁLLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND

#### TOPSOIL SPECIFICATIONS

Topsoil salvaged from the existing site may be used provided that it meets that 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: 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 soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting texture subsoils and shall contain less than 5% by
- ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quack grass, Johnson grass, 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
- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization Section I Vegetative Stabilization Methods and Materials.

### IV. For sites having disturbed areas over 5 acres:

III. For sites having disturbed areas under 5 acres:

- 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 of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
- b. Organic content or topsoil shall be not less than 1.5 percent by weight.
- Topsoil having soluble solt content greater than 500 parts per million shall not be used.
- d. No sod or seed shall 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.

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

# Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization — Section I — Vegetative Stabilization Methods and Materials. V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, grade stabilization structures, earth dikes, slope silt fence and 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 elevation.
- 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 a minimum of 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
- 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.
- VI. Alternative for Permanent Seeding Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
  - Composted Sludge Material for use as a soil conditioner for sites having distributed areas over 5 acres shall be tested to prescribe amendments and for sites having disturbed areas under 5 acres shall conform to the following requirements:
  - a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
  - b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
  - c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- iv. Composted sludge shall be amended with a potassium fertilizer applied at the rate References: Guidelines Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1973.

# 30.0 DUST CONTROL

**Definition** 

Controlling dust blowing and movement on construction sites and roads. <u>Purpose</u>

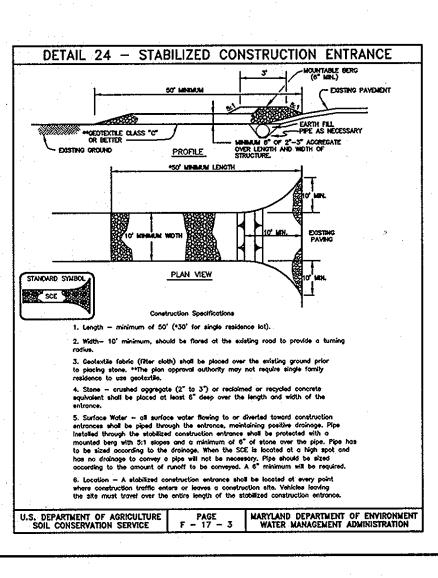
To prevent blowing and movement of dust from exposed soil surfaces, reduce on and off-site damage, health hazards, and improve traffic safety. Conditions Where Practice Applies

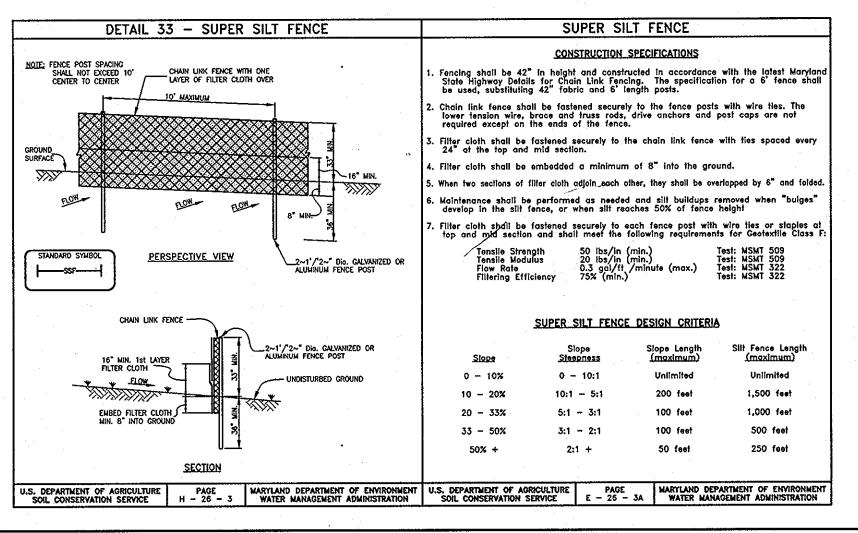
This practice is applicable to areas subject to dust blowing and movement where on and off-site damage is likely without treatment.

#### Temporary Methods 1. Mulches — See standards for vegetative stabilization with mulches only. Mulch should be crimped or tracked to prevent blowing.

- 2. Vegetative Cover See standards for temporary vegetative cover.
  - 3. Tillage To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel—type plows spaced about 12 apart, spring—toothed harrows, and similiar plows are examples of equipment which may produce the desired effect.
  - Irrigation This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point that runoff begins to flow.
- 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. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.
- 6. Calcium Chloride Apply at rates that will keep surface moist. May need retreatment.
- Permanent Methods

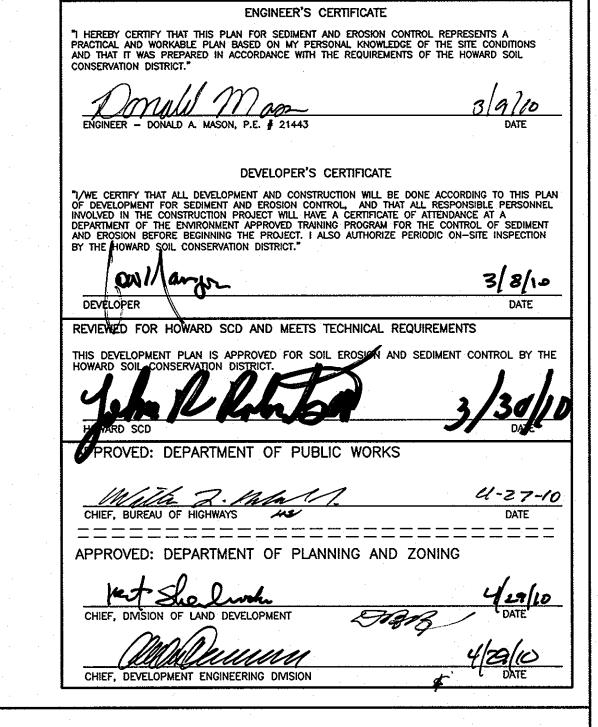
  1. Permanent Vegetation See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
  - 2. Topsoiling Covering with less erosive soil materials. See standards for topsoiling. 3. Stone - Cover surface with crushed stone or coarse gravel.
- Agriculture Handbook 346. Wind Erosion Forces in the United States and Their Use in Predicting Soil Loss.
- 2. Agriculture Information Bulletin 354. How to Control Wind Erosion, USDA-ARS.

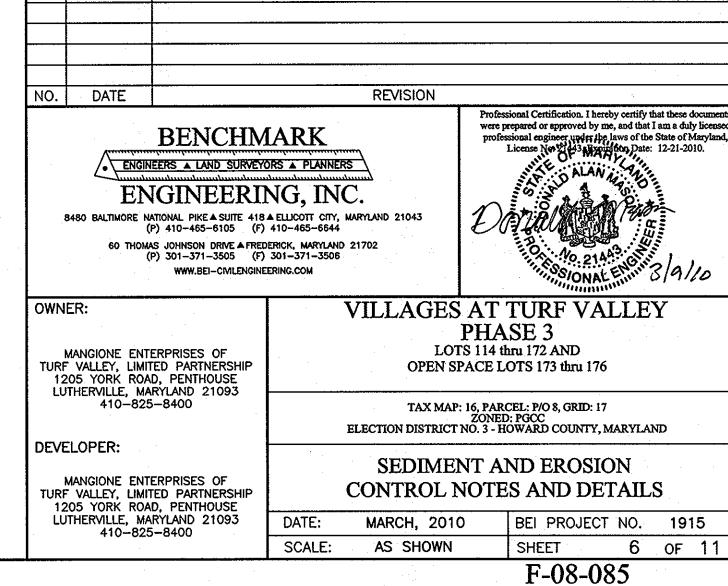




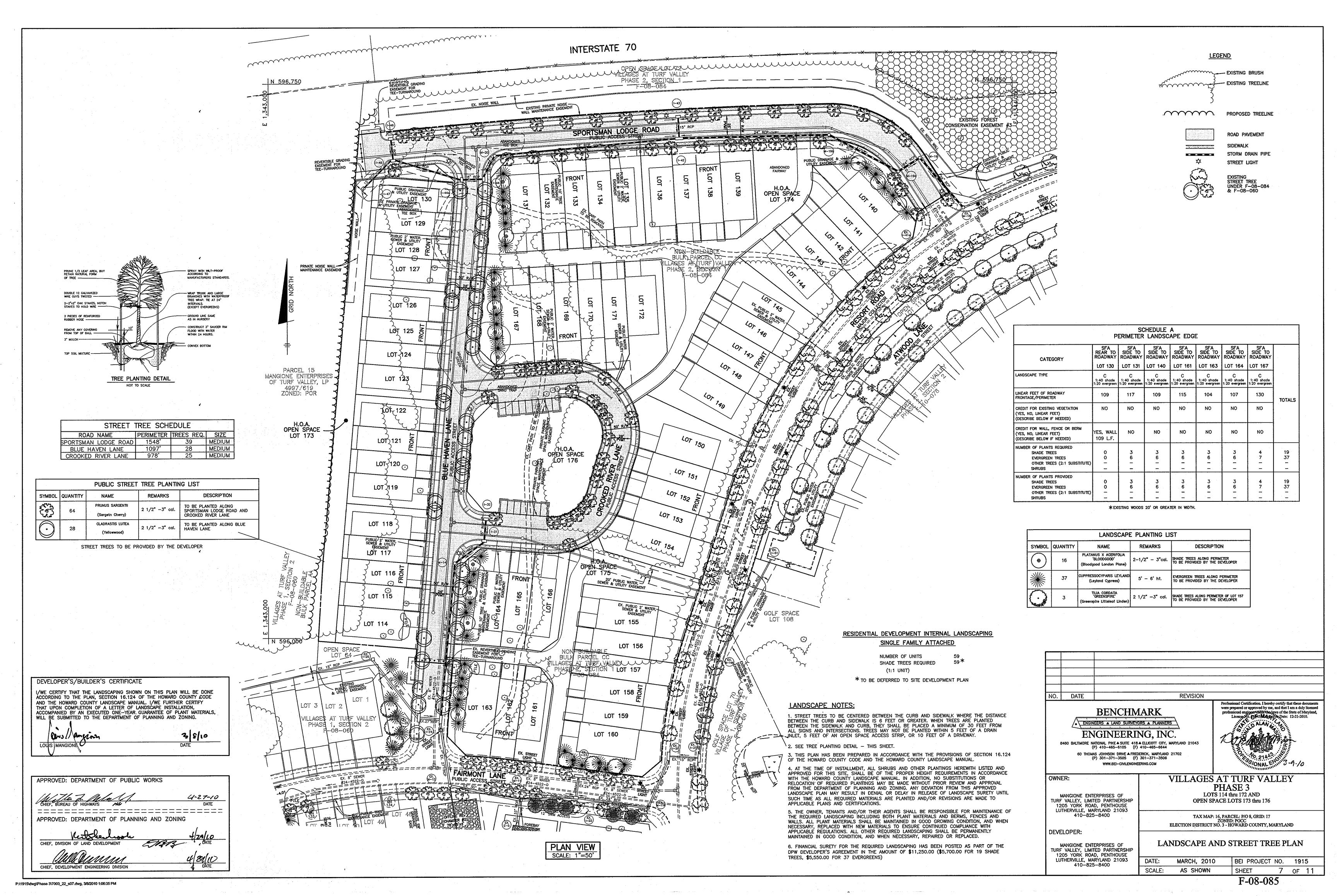
## SEQUENCE OF CONSTRUCTION

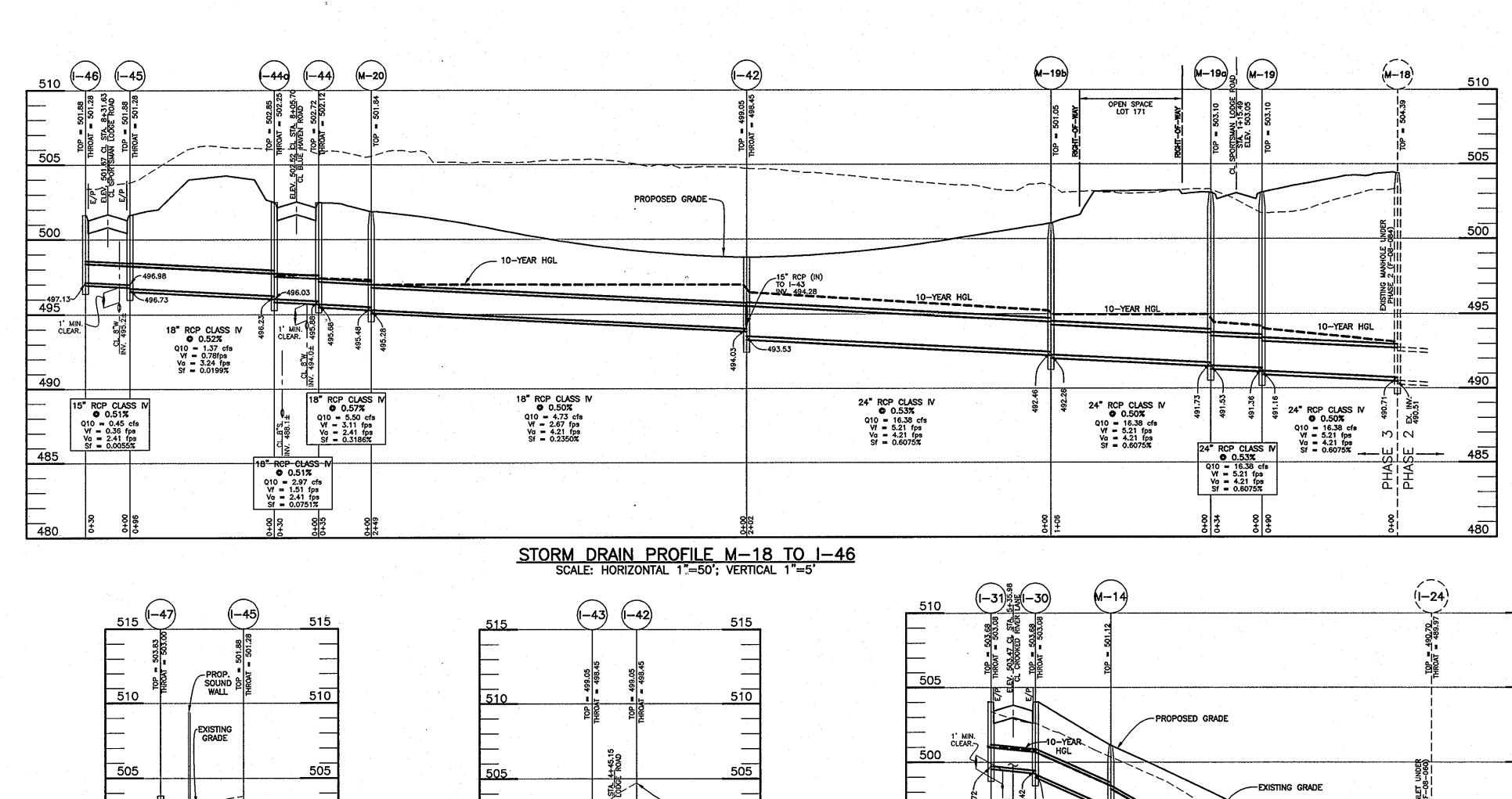
- NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION 1. OBTAIN GRADING PERMIT. (DAY 1)
- 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SUPER SILT FENCES. (DAY 2-10)
- 3. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, BRING ROAD BEDS TO SUBGRADE AND STABILIZE SLOPES IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES. UTILIZE DUST CONTROL METHODS. NO MORE THAN 20 AC. MAY BE UNSTABILIZED AT ANY TIME. (DAY 11-21)
- 4. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, INSTALL STORM DRAINS, WATER MAINS, SEWER MAINS AND NOISE WALL. (DAY 22-43)
- 5. PAVE ROADWAYS. (DAY 44-54)
- 6. COMPLETE MASS GRADING OF SITE AND STABLIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES. (DAY 55-65)
- 7. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. REMOVE SEDIMENT CONTROL DEVICES, AND STABILIZED DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES. (DAY 66-70)



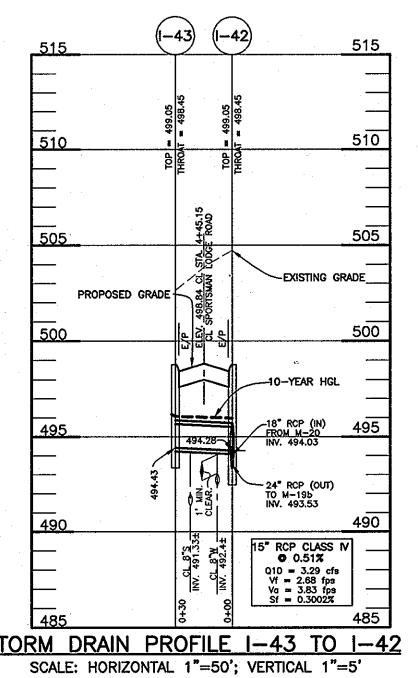


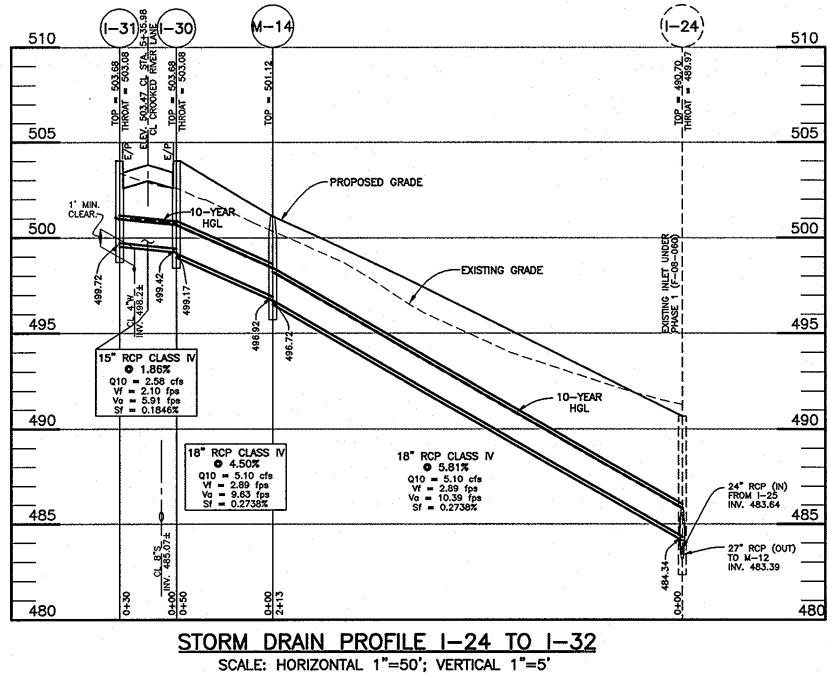
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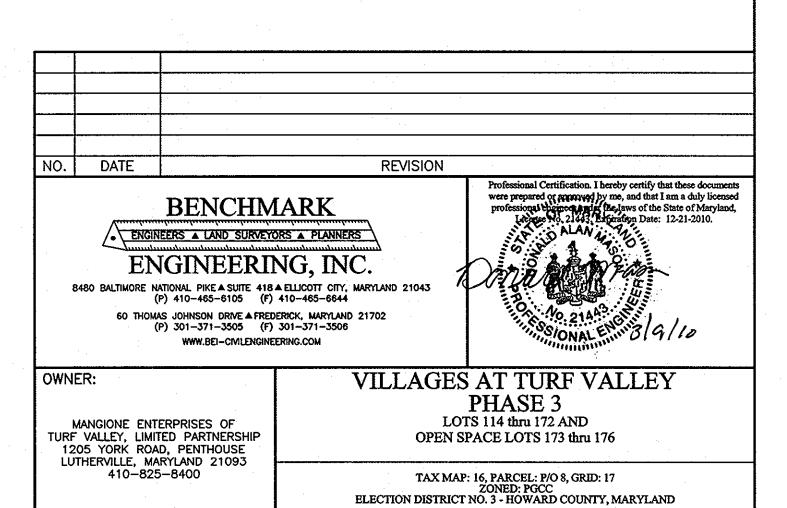


DEVELOPER:

MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 410-825-8400

	PIPE	SCHEDULE	
PIPE SIZE	LENGTH	TYPE	MAINTENANCE
15"	90'	RCP CLASS IV	PUBLIC
18"	687'	RCP CLASS IV	PUBLIC
24"	432'	RCP CLASS IV	PUBLIC
15"	55'	RCP CLASS IV	PRIVATE

NO.	TYPE	LOCATION	PIPE INV. IN	PIPE INV. OUT	TOP ELEV.	THROAT ELEV.	HO. CO. STD.	OWNERSHIP
<u> </u>		INLETS						
1-30	A5	CL STA. 5+35.98 CROOKED RIVER LANE OFFSET 13.00' LEFT	499.42	499.17	503.68	503.08	D-4.02 (width=2.5')	PUBLIC
I-31	A-5	CL STA. 5+35.98 CROOKED RIVER LANE OFFSET 13.00' LEFT		499.72	503.68	503.08	D-4.02 (width=2.5')	PUBLIC
I-42	A-10	CL STA, 4+45.15 SPORTSMAN LODGE ROAD OFFSET 13.00' LEFT	494.03 (18") 494.28 (15")	493.53	499.05	498.45	D-4.03 (width=3.0')	PUBLIC
1-43	A-5	CL STA. 4+45.15 SPORTSMAN LODGE ROAD OFFSET 13.00' RIGHT		494.43	499.05	498.45	D-4.02 (width=2.5')	PUBLIC
1-44	A-10	CL STA. 8+06.89 OFFSET 13.43' RIGHT BLUE HAVEN LANE	495.88	495.68	502.72	502.12	D-4.03 (width=2.5')	PUBLIC
I-44a	A5	CL STA. 8+06.27 OFFSET 13.43' LEFT BLUE HAVEN LANE	496.23	496.03	502.85	502.25	D-4.03 (width=2.5')	PUBLIC
I-45	A-5	CL STA. 8+31.63 SPORTSMAN LODGE ROAD OFFSET 13.00' LEFT	496.98	496.73	501.88	501.28	D-4.02 (width=2.5')	PUBLIC
I-46	A-5	CL STA. 8+31.63 SPORTSMAN LODGE ROAD OFFSET 13.00' RIGHT		497.13	501.88	501.28	D-4.02 (width=2.5')	PUBLIC
1-47	'D' INLET	CL STA. 8+75.58 SPORTSMAN LODGE ROAD OFFSET 48.22' LEFT		497.88	503.83	503.00	D-4.11	PRIVATE
		MANHOLE	ES					
M-19	4'-0" MANHOLE	CL STA. 1+15.49 SPORTSMAN LODGE ROAD OFFSET 17.10' RIGHT	491.36	491.16	503.10	NA	G-5.11 & G-5.12	PUBLIC
1-19a	4'-0" MANHOLE	CL STA. 1+15.49 SPORTSMAN LODGE ROAD OFFSET 17.10' LEFT	491.73	491.53	503.10	NA	G-5.11 & G-5.12	PUBLIC
/-19b	4'-0" MANHOLE	CL STA. 2+43.31 SPORTSMAN LODGE ROAD OFFSET 17.10' LEFT	492.46	492.26	501.05	NA	G-5.11 & G-5.12	PUBLIC
M-20	4'-0" MANHOLE	CL STA. 6+94.83 SPORTSMAN LODGE ROAD OFFSET 21.02' LEFT	495.48	495.28	501.84	NA NA	G-5.11 & G-5.12	PUBLIC
M-14	4'-0" MANHOLE	CL STA. 2+86.49 BLUE HAVEN LANE OFFSET 16.50' RIGHT	496.92	496.72	501.12	NA	G-5.11 & G-5.12	PUBLIC
1) 2)	STRUCTURE LOCATION	FOR MANHOLES IS AT THE CENTER OF THE MANHOLE. FOR INLETS IS AT THE MIDPOINT OF THE FRONT OF THE INLET I AND LOCATION FOR ENDSECTIONS IS AT THE MIDPOINT OF THE		CTURE.				



DATE:

SCALE:

APPROVED: DEPARTMENT OF PUBLIC WORKS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT

CHIEF, DEVELOPMENT ENGINEERING DIVISION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

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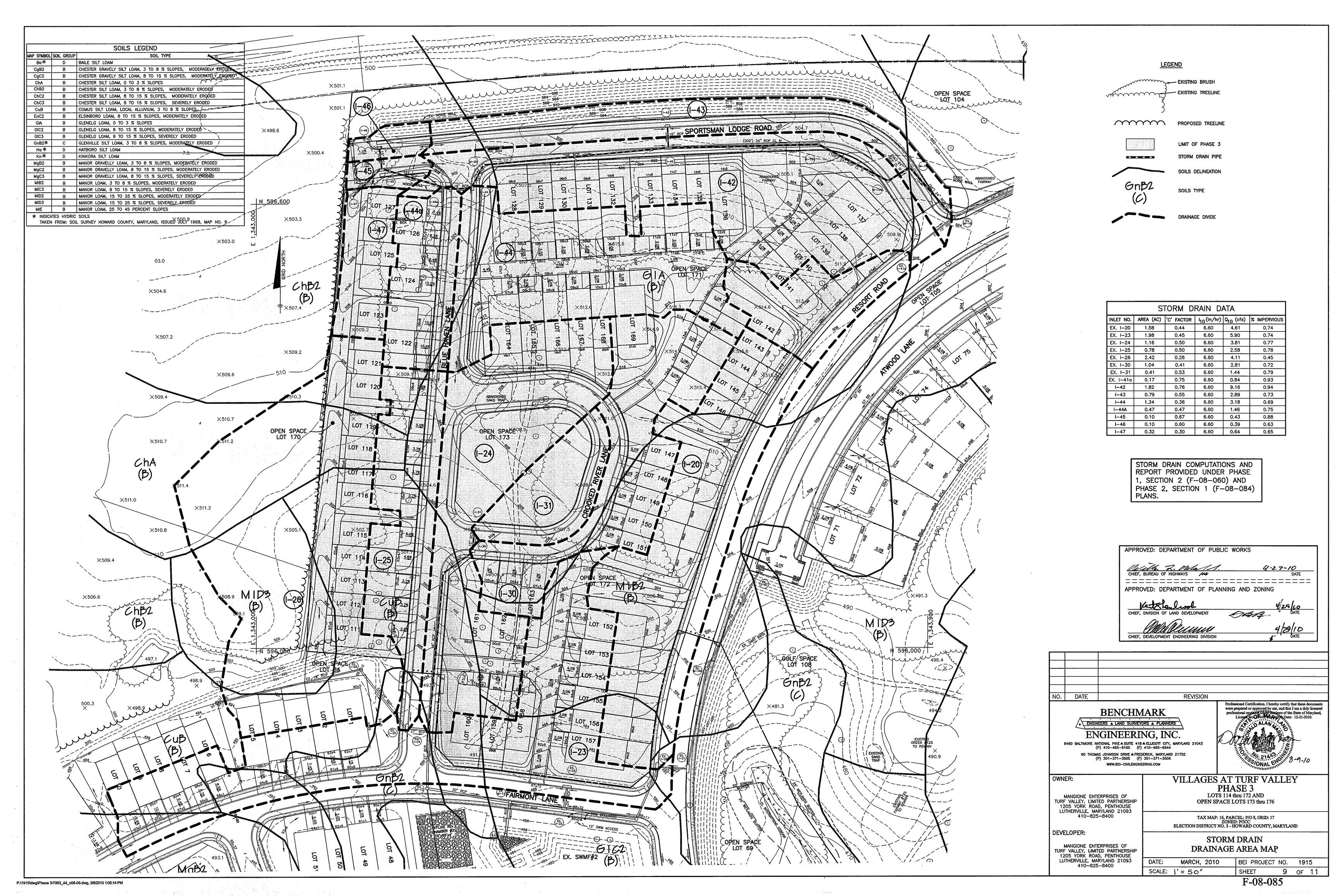
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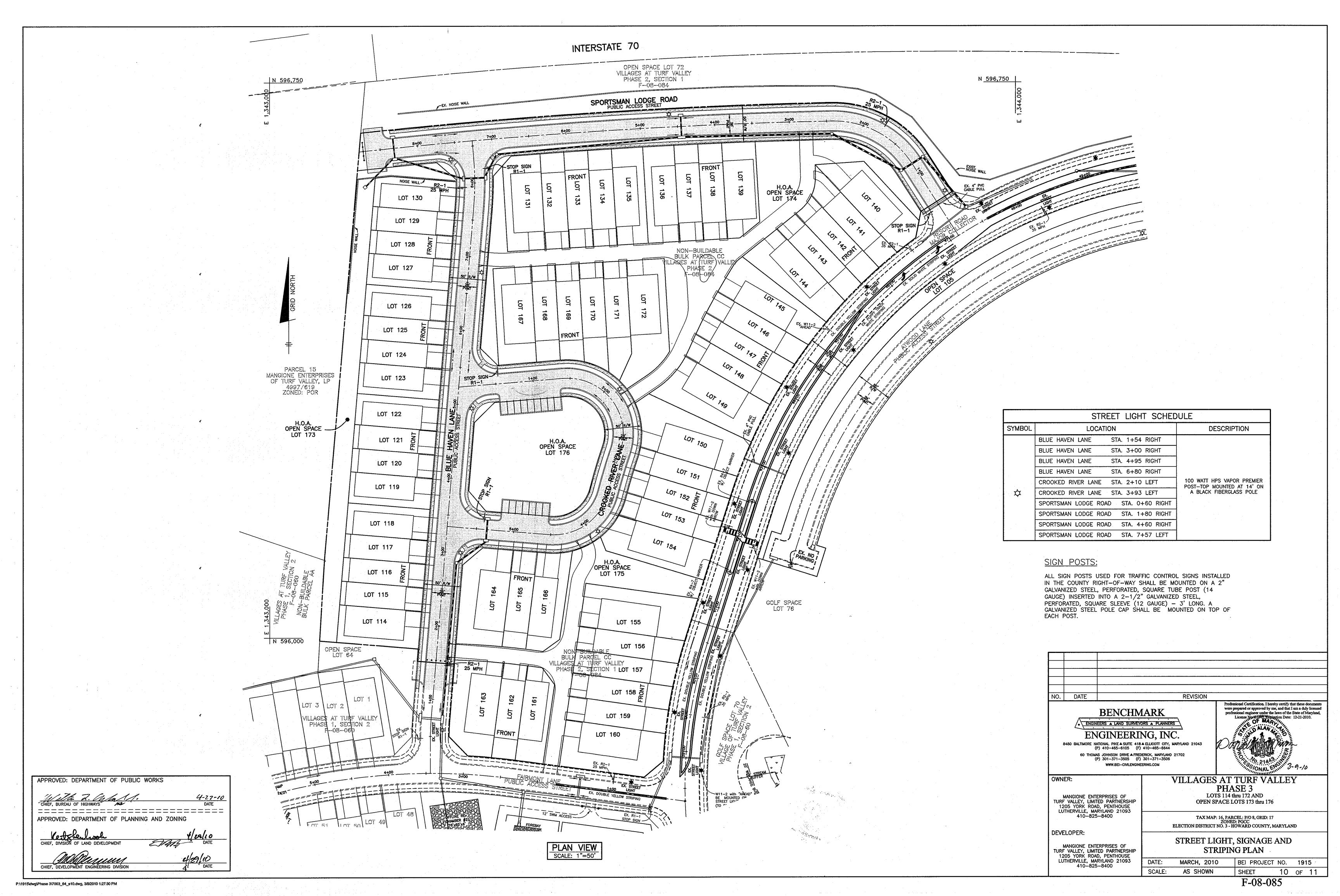
STORM DRAIN PROFILES

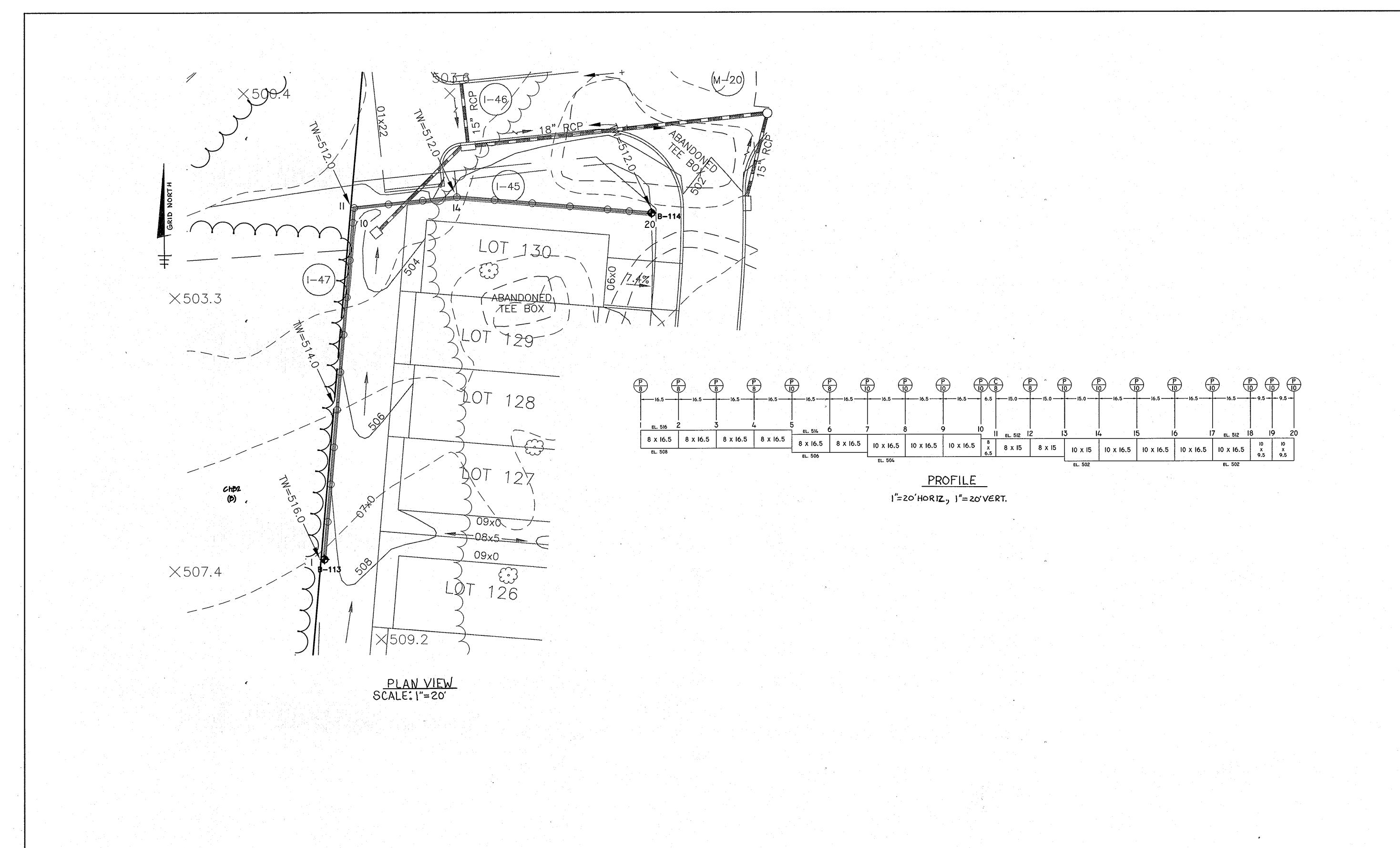
AND DETAILS

MARCH, 2010

AS SHOWN







Professional Certification. I hereby certify that these documents 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. 8818 Expiration Date: 10/17/10

3515 KINGS HIGHWAY DOWNINGTOWN, PA 19335

Mitta 2. Mmss.	4-27-10
CHIEF, BUREAU OF HIGHWAYS	DATE
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5/13/08 ---

OWNER:
 MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 410-825-8400
DEVELOPER•

DRAWING NO.

TV2-01

VILLAGES AT TURF VALLEY
PHASE 3
LOTS 114 thru 172
OPEN SPACE LOTS 173 thru 176 TAX MAP: 16, PARCEL: P/O 8, GRID: 17
ELECTION DISTRICT NO. 3 - HOWARD COUNTY, MARYLAND - ZONED: PGCC MANGIONE ENTERPRISES OF TURF VALLEY, LIMITED PARTNERSHIP 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 410-825-8400

NOISE WALL

PLAN AND PROFILE DATE: MARCH, 2010 BEI PROJECT NO. 1915 SHEET 11 OF 11 SCALE: AS SHOWN

F-08-085