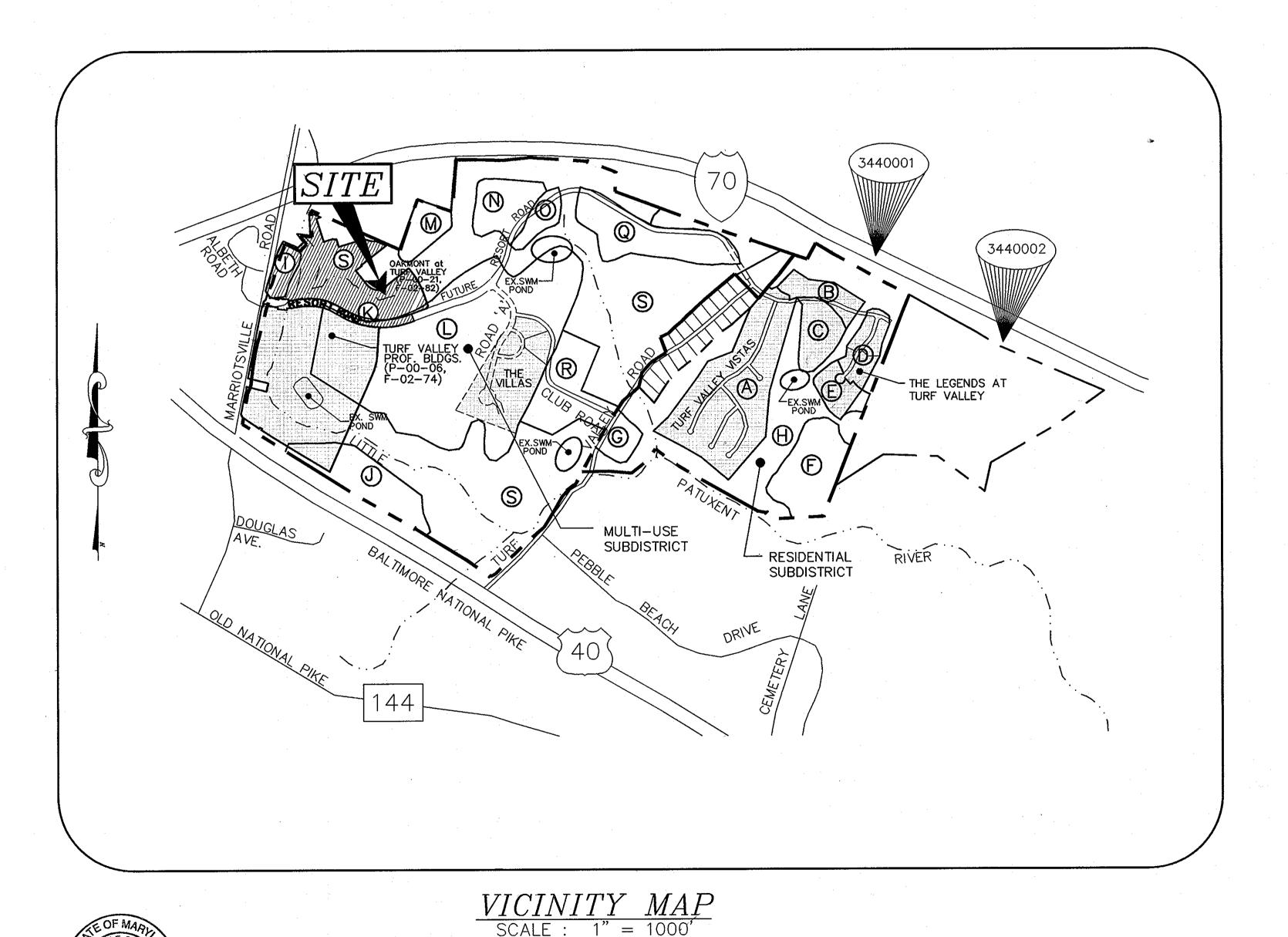
ROAD CONSTRUCTION PLANS OAKMONT at TURF VALLEY:

RESORT ROAD STA. 13+66.83 THRU 21+26.90

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



I/WE CERTIFY THAT ALL DEVELOPMENT AND 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 DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE HOWARD SOIL I HEREBY 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 PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS: THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

APPROVED: DEPARTMENT OF PUBLIC WORKS

FOR ZIM REV. 2/2/2010 ONLY BENCHMARK ENG. INC. 8480 BACTIMORE NATILAKE, SOME 418 ELLICOTT CITY, MD Z1043 410) 465 6105

<u>OWNER</u>

MANGIONE ENTERPRISES OF TURF VALLEY, L.P. 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 (410) 825-8400

GENERAL NOTES:

1. ALL ASPECTS OF THE PROJECT ARE IN CONFORMANCE WITH THE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN BY WAIVERS INDICATED. NOTE THAT THIS PROJECT IS SUBJECT TO THE 4TH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS

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

3. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:

> (410) 725-9976 C&P TELEPHONE COMPANY (410) 313-4900 HOWARD COUNTY BUREAU OF UTILITIES (410) 393-3533 AT&T CABLE LOCATION DIVISION BALTIMORE GAS & ELECTRIC (410) 685-0123 STATE HIGHWAY ADMINISTRATION (410) 531-5533 HOWARD COUNTY DEPT. OF PUBLIC WORKS/ (410) 313-1880 CONSTRUCTION INSPECTION DIVISION

4. PROJECT BACKGROUND:

TAX MAP 16 - PARCEL 8 - BLOCK 10. PGCC MULTI-USE SUBDISTRICT (FDP) ELECTION DISTRICT S- 86-13; P-00-021; PLAT # 3054-A-1510 DPZ REFERENCE : LIBER 0920, FOLIO 250 DEED REFERENCE 36.48 ACRES AREA OF TRACT

OPEN SPACE REQUIRED (15%): 5.47 ACRES OPEN SPACE PROVIDED: 23.22 ACRES±

MAXIMUM NUMBER OF UNITS ALLOWED TOTAL NUMBER OF UNITS PROPOSED:

BULK PARCEL RECORDED FOR DENSITY

5. FLOODPLAIN SHOWN ON THESE PLANS IS FROM FLOODPLAIN STUDY PERFORMED UNDER TURF VALLEY PROFESSIONAL BUILDINGS, F-02-074, AND APPROVED ON JULY 1, 2004

6. WETLAND DELINEATIONS PERFORMED BY B.S. ENVIRONMENTAL, INC. DATED: JUNE 2000. 7. TOPOGRAPHIC INFORMATION IS BASED ON AERIAL TOPOGRAPHIC SURVEY BY WINGS AERIAL

MAPPING CO., INC. DATED FEBRUARY 1999. VERTICAL DATUM IS NAD'27. 8. COORDINATES BASED ON NAD'27 MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO: 3440001 & 3440002

E 836,286.297 N 533,593,800

E 837,983.249 9. BOUNDARY INFORMATION IS BASED ON FINAL DEVELOPMENT PLAN FOR TURF VALLEY, PGCC

DISTRICT, MULTI-USE SUBDISTRICT (PLAT # 3054-A-1510) 10. PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT. WATER AND SEWER ARE PUBLIC. CONTRACT NUMBERS ARE 20-3601-D FOR SEWER AND CAPITAL PROJECT W-8195 FOR WATER. 11. LANDSCAPING FOR PARCELS R THRU U (OAKMONT at TURF VALLEY) AND PARCELS V AND W (SWM) WILL BE PROVIDED AT THE SDP STAGE IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD

COUNTY CODE AND THE LANDSCAPE MANUAL

12. NO CEMETERIES OR HISTORIC STRUCTURES EXIST ON SITE. 13. THIS PROJECT IS SUBJECT TO TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP, INC. UNDER S-86-13. RESORT ROAD IS A GENERAL PLAN ROAD SHOWN ON THE TRANSPORTATION MAP 2000-2020 AS A MAJOR COLLECTOR CONNECTION TO MARRIOTTSVILLE ROAD. THE LATTER IS DESIGNED AS AN INTERMEDIATE ARTERIAL BETWEEN US RTE. 40 AND MD RTE 99. THE R/W SECTION OF RESORT ROAD IS DESIGNED TO INTERMEDIATE ARTERIAL STANDARDS BASED ON THE RESULTS OF THE TRAFFIC STUDY PREPARED BY THE TRAFFIC GROUP ON OR ABOUT MARCH 1986.

14. THIS PROJECT IS EXEMPT FROM HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS UNDER SECTION 16.1202(b) OF THE COUNTY CODE BECAUSE IT IS A PLANNED UNIT DEVELOPMENT WHICH HAS PRELIMINARY DEVELOPMENT PLAN APPROVAL AND 50 % OR MORE OF THE LAND IS RECORDED AND SUBSTANTIALLY DEVELOPED BEFORE DECEMBER 31, 1992.

15. SITE DEVELOPMENT PLANS ARE REQUIRED FOR DEVELOPMENT OF PARCELS R THRU U SHOWN ON THESE PLANS. STORMWATER MANAGEMENT FACILITIES WILL BE REQUIRED AT THE SITE DEVELOPMENT PLAN STAGE. THE DESIGN SHALL BE IN ACCORDANCE WITH HOWARD COUNTY REGULATIONS.

16. WAIVER TO DESIGN MANUAL, VOLUME III, SECTION 2.4.1. FIGURE 2.13. TO MODIFY THE TYPICAL SECTION OF A DIVIDED INTERMEDIATE ARTERIAL ROADWAY TO REDUCE THE WIDTH OF PAVING TO 24 FEET APPROVED ON APRIL 1, 2002.

17. ALL STORM DRAIN PIPES TO BE HDPE PIPES UNLESS OTHERWISE NOTED.

18. COMPACTION IN FILL AREAS TO BE 95% AS DETERMINED PER AASHTO T-180.

19. USE HO. CO. STD. R-3.01 STANDARD 7" COMBINATION CURB AND GUTTER, UNLESS OTHERWISE NOTED. 20. STREETLIGHTS WILL BE REQUIRED IN THIS DEVELOPMENT IN ACCORDANCE WITH THE DESIGN MANUAL. STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SELECTED SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III (1993) AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." THE JUNE 1993 POLICY INCLUDES GUIDELINES FOR LATERAL AND LONGITUDINAL PLACEMENT. A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.

21. THE TERM 'POD' USED HEREIN REFERS TO LAND USE AREAS ESTABLISHED IN THE FINAL DEVELOPMENT PLAN FOR TURF VALLEY. A SUMMARY OF THE APPLICABLE LAND USE AREAS IS SHOWN BELOW:

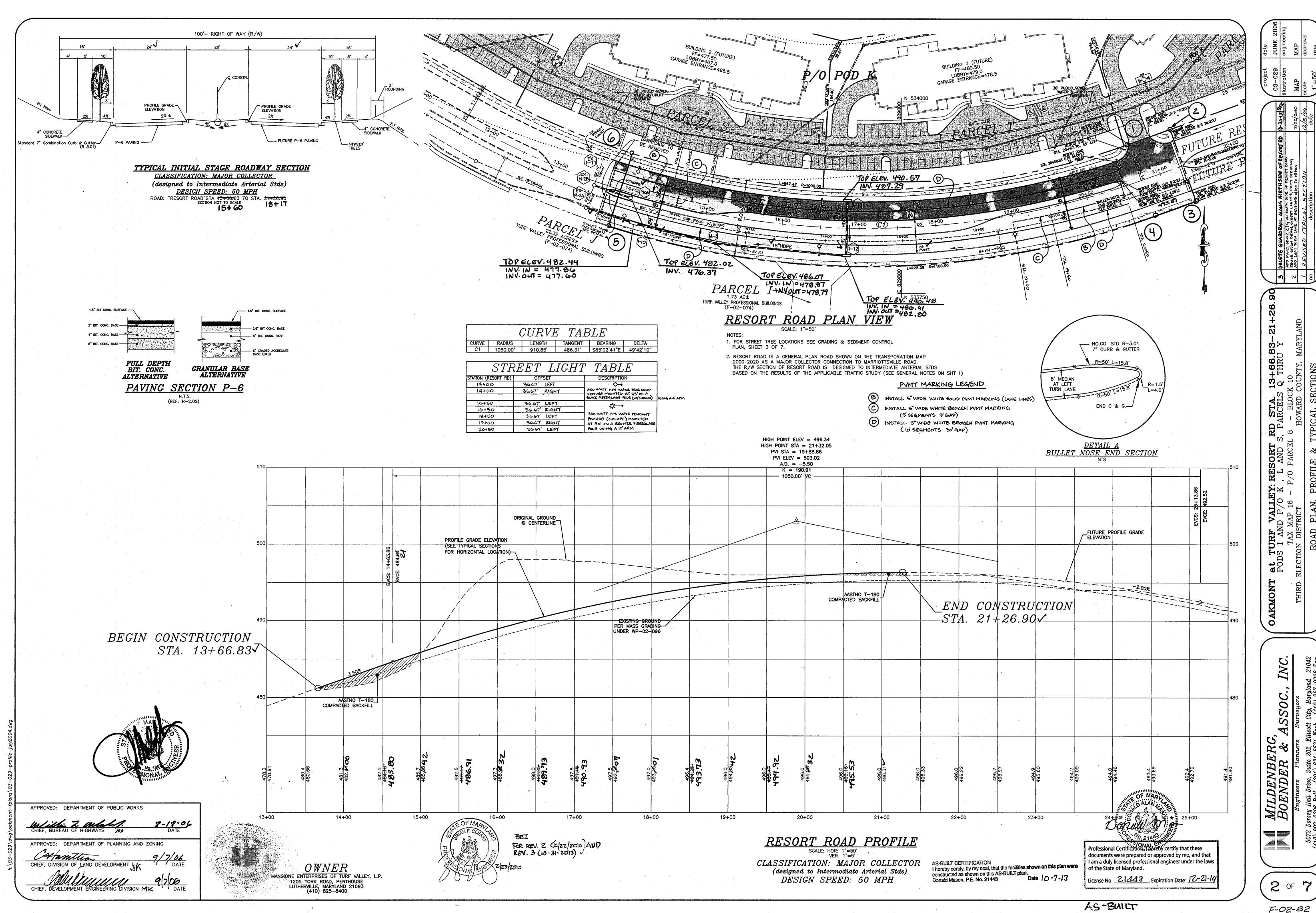
POD NO.	PROJECTED LAND USE
T .	All permitted uses in the PGCC Multi-use Subdistrict
K	All permitted residential uses in the PGCC Multi-use Subdistrict
L	All permitted uses in the PGCC Multi-use Subdistrict
S	Golf and/or Open Space

- 22. AN AMENDMENT TO THE TURF VALLEY FDP MULTI-USE SUBDISTRICT PLAT (PLAT NO. 17359-17360) WAS RECORDED ON APRIL 14.2005, AND INCREASES THE PROJECTED RESIDENTIAL UNITS FOR POD K TO 150 AND MODIFIES THE POD K BOUNDARY.
- 23. WAIVER TO GRADING WITHOUT AN APPROVED SITE PLAN OR F-PLAN APPROVED UNDER WP-02-96 ON NOVEMBER 1, 2002. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS: (1) THE PETITIONER SHALL OBTAIN ALL NECESSARY PERMITS FOR THE PROPOSED WORK, FROM THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AND (2) ON ALL APPLICABLE SUBSEQUENT PLAN SUBMISSIONS, INDICATE THESE PROPOSED GRADE LINES AS THE EXISTING CONDITION. GRADING PLAN GP-02-90 APPROVED IN CONNECTION
- 24. ALL SIGNS SHALL BE MOUNTED ON A 2" GALVANIZED SQUARE METAL TUBE POST (14 GUAGE) INSERTED INTO A 2 1/2" GALVANIZED SQUARE METAL TUBE SLEEVE (3' LONG). THERE SHALL ALSO BE A GALVANIZED STEEL

.13+66.83-Q THRU Y CK 10

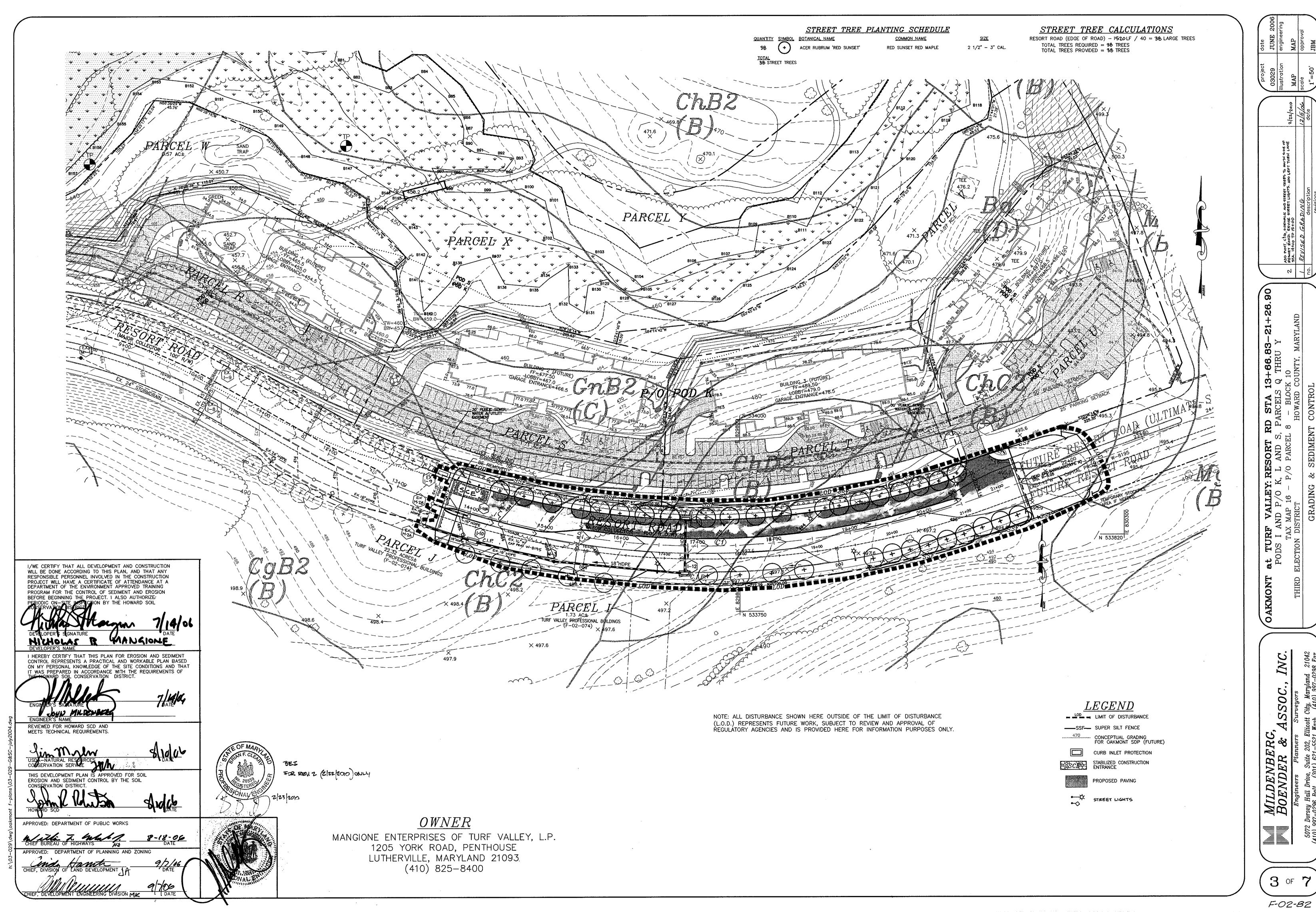
ER(MILDENBI BOENDER

OF 7



F-02-82

PROF



F-02-82

HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

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.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

1) PREFERRED - APPLY 2 TONS PER ACRES 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 DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY

400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).

2) 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 DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING — FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS/1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LOBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU 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) — USE SOD. OPTION (3) — SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONE/ACRE 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 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

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, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 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 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. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STANDARD SEDIMENT CONTROL NOTES

I/WE CERTIFY THAT ALL DEVELOPMENT AND 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

DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE

RIODIC ON-SITE INSPECTION BY THE HOWARD SOIL

HEREBY 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

WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF HE HOWARD SQIL CONSERVATION DISTRICT.

B. MANKIONLE

DEVELOPER'S SIGNATURE

REVIEWED FOR HOWARD SCD AND MEETS TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

EROSION AND SEDIMENT CONTROL BY THE SOIL

APPROVED: DEPARTMENT OF PUBLIC WORKS

ONSERVATION SERVICE

CONSERVATION DISTRICT

- 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 NAY CONSTRUCTION, (313-1855).
- 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 CONTROL", AND REVISIONS THERETO.
- 3) 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.
- 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.
- 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (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.

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:

AREA DISTURBED:

AREA TO BE ROOFED OR PAVED:

AREA TO BE VEGITATIVELY STABILIZED:

TOTAL CUT:

TOTAL FILL:

TOTAL WASTE/BORROW AREA LOCATION: (NOT REQUIRED)

THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY.
CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.

- 8) 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.
- 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 CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

STANDARD AND SPECIFICATIONS FOR TOPSOIL

<u>DEFINITION</u>

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

<u>PURPOSE</u>

TO PROVIDE A SUITABLE SOIL MEDIUM FOR VEGETATIVE GROWT. 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 FLASTER 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.
- 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 MATERIA SPECIFICATIONS

TOPSOIL SALVAGED FROM THE EXISTING SITE MAY BE USED PROVIDED THAT IT MEETS THE STANDARDS AS SET FORTH IN THESE SPECIFICATION. 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.

TOPSOIL SPECIFICATIONS — SOIL TO BE USED AS TOPSON. 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 SOIL SCIENTIST AND APPROVED

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 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 1/2" IN DIAMETER

- TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARCS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- i. 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 SITES HAVING DISTURBED AREAS UNDER 5 ACRES:
 - 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:
 - 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 topsoils shall be between 6.0 and 7.5. If the tested soil demonstrates a ph of less than 6.0, sufficient lime shall be perscribed 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 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 NATURAL

- ii. PLACE TOPSOIL (IF REQUIRED) AND APPLY SOIL AMENDMENTS AS SPECIFIED IN 20.0 VEGETATIVE STABILIZATION SECTION I VEGETATIVE STABILIZATION METHODS AND MATERIALS.
- V. TOPSOIL APPLLICATION
- I. 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 MAVE BEEN PREVIOUSLY ESTABLISHED, SHALL BE MAINTAINED, ALBEIT 4" − 8" HIGHER IN ELEVATION
- iii. TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED IN A 4° TO 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 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.
- 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:
- i. COMPOSTED SLUDGE MATERIAL FOR USE AS A SOIL CONDITIONER FOR SITES HAVING DISTURBED AREAS OVER 5 ACRES SHALL BE TESTED TO PRESCRIBE AMENDMENTS AND FOR SITES HAVING AREAS UNDER 5 ACRES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
- a. COMPOSTED SLUDGE SHALL BE SUPPLIED BY, OR ORIGINATE FROM, A PERSON OR PERSONS WHO 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 LEASE 1 PERCENT NITROGEN, 1.5 PERCENT PHOSPHOURUS, AND 0.2 PERCENT POTASSIUM AND HAVE A Ph OF 7.0 0 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 FERTILLIZER APPLIED AT THE RATE OF 4 LB/1,000 SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE.

REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

OWNER

MANGIONE ENTERPRISES OF TURF VALLEY, L.P.

1205 YORK ROAD, PENTHOUSE

LUTHERVILLE, MARYLAND 21093

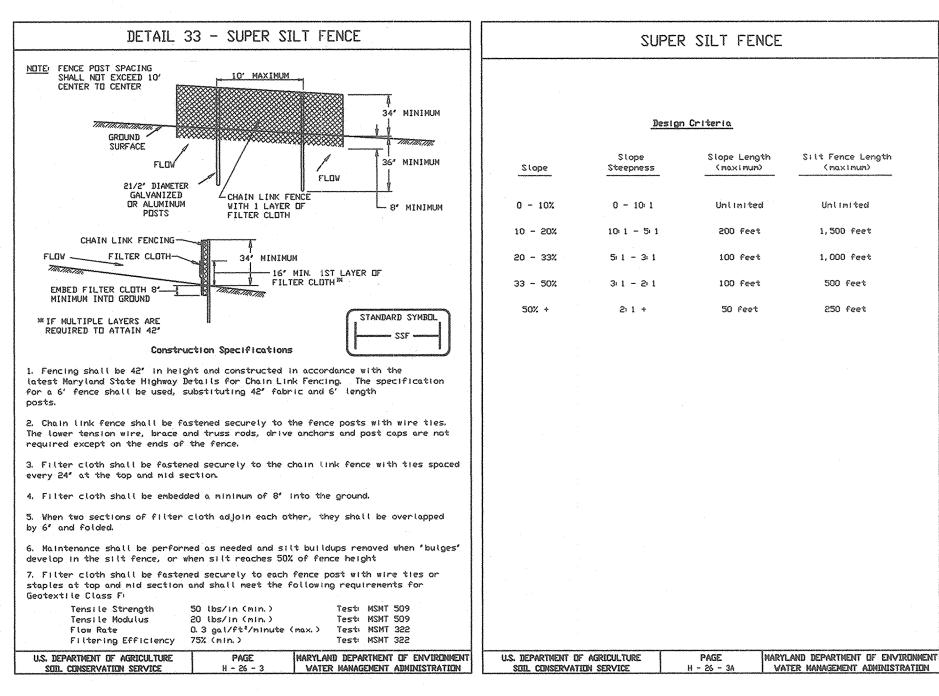
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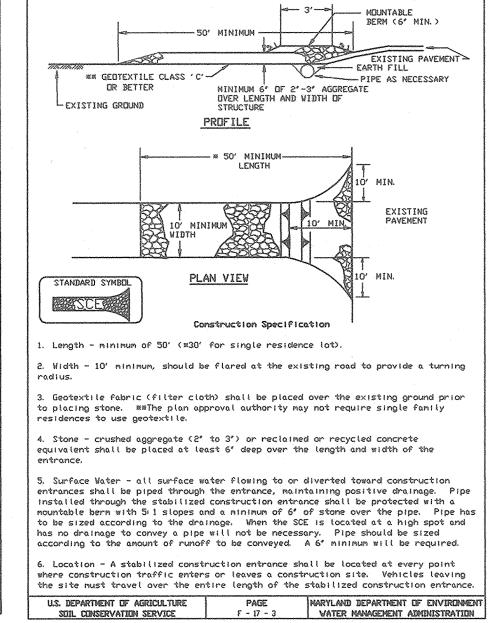
SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT
- OBTAIN GRADING PERMIT
 CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE, WITH MOUNTABLE BERM (1 DAY)
- 3. CONSTRUCT SUPER SILT FENCES AND REQUEST PERMISSION TO PROCEED FROM THE SEDIMENT CONTROL INSPECTOR (2 DAYS).
- 4. BRING RESORT ROAD TO GRADE (15 DAYS)
- 5. CONSTRUCT STORM DRAIN AND INSTALL INLET PROTECTION AT ALL INLETS
- AS SHOWN ON SHEET 3 OF THESE PLANS. (10 DAYS)

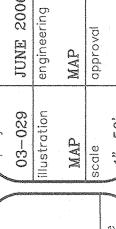
 6. CONSTRUCT CURB AND GUTTER, SIDEWALK AND PAVEMENT PER TYPICAL SECTION FOR INITIAL PHASE
- OF RESORT ROAD CONSTRUCTION (20 DAYS)

 7. STABILIZE REMAINING DISTURBED AREAS (10 DAYS)
- 8. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN
- B. WHEN ALL CONTRIBUTING DRAINAGE AREAS TO SEDIMENT CONTROL DEVICES HAVE BEEN STABILIZED, AND WITH PERMISSION OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTRUBED AREAS. (5 DAYS)
- 9. CONTRACTOR SHALL REMOVE SEDIMENT AND FLUSH STORM DRAIN SYSTEM AT END OF CONSTRUCTION PERIOD.





DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



OAKMONT At TURF VALLEY: RESORT RD ST.
PODS I AND P/O K, L AND S, PARCE
TAX MAP 16 - P/O PARCEL 8 - B
THIRD ELECTION DISTRICT
HOWA

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13+66.6 Q THRU

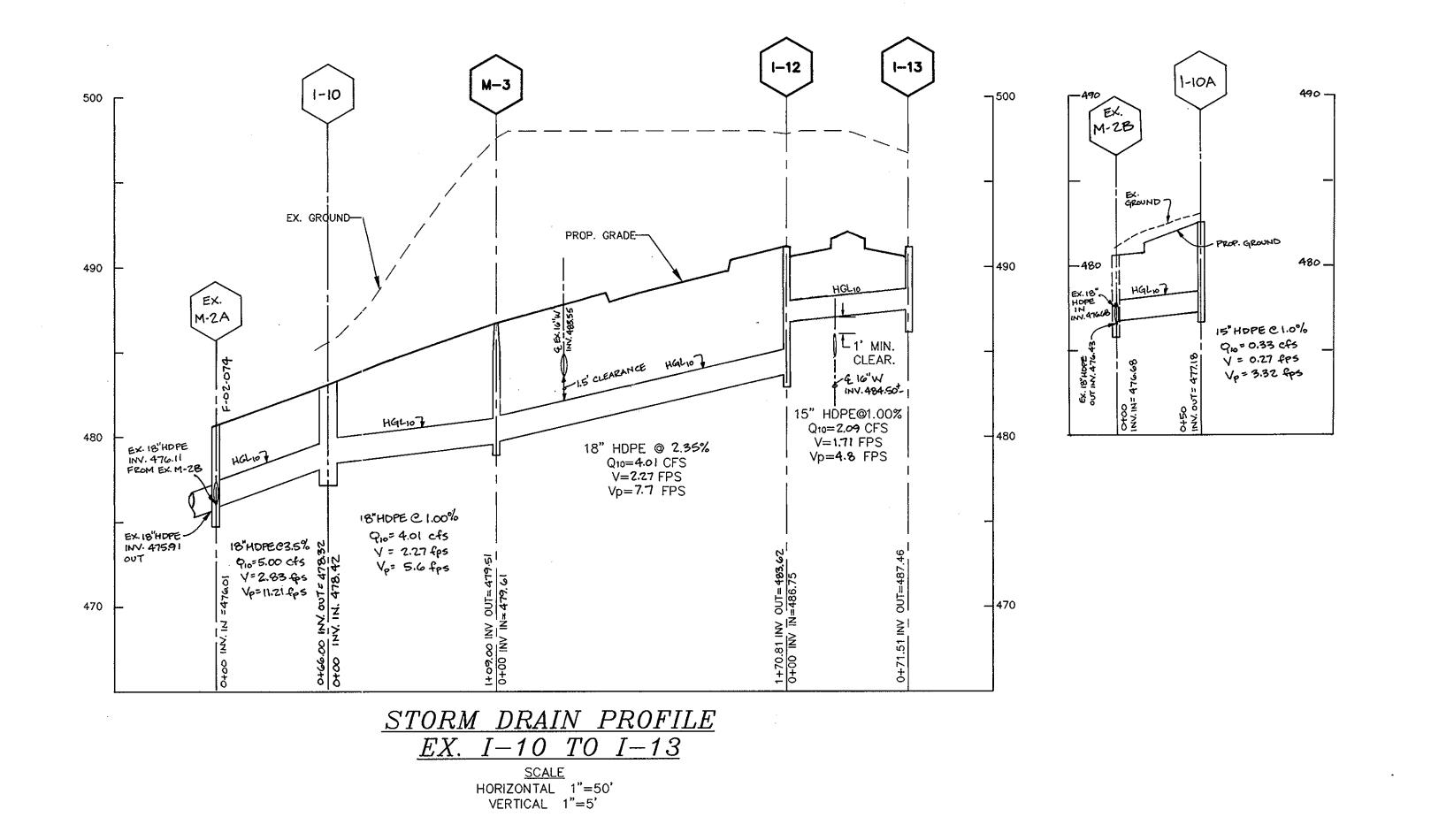
anners Surveyors
202, Ellicott City, Maryland 21042

ILDENBERG,
NOENDER & ASSO
Engineers Planners Surveyor
y Hall Drive, Suite 202, Ellicott City, Iv

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F-02-82



STRUCTURE SCHEDULE

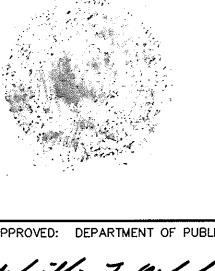
NOTE WDTH OF ALL "A" TYPE INLETS IS 2'6" UNLESS OTHERWISE NOTED.

					•	
No.	LOCATION	TOP OF STRUCTURE	INVERT IN	INVERT OUT	COMMENTS	
MH-3	RESORT ROAD STA. 15+18.97 RT. 37.67'	486.72	479.61	479.51	BRICK MANHOLE, STD. G 5.01	
I -1 2	RESORT ROAD STA. 16+84.17, RT. 34.0'	491.18	486.75	483.62	TYPE "A-10" INLET STANDARD SD 4.02	
I-13	RESORT ROAD STA. 16+84.14, LT. 34.0'	491.18		487.46	TYPE "A-10" INLET STANDARD SD 4.02	
1-10	RESORT ROAD STA. 1413.74, RT. 34.1'	482.99	478.42	478.32	TYPE "A-10" INLET STANDARD SD 4.02	
1-10A	RESORT ROAD STA. 14+00.00, RT. 6.00'	482.50		477.18	YARD INLET STD. SD 4.14	
· ·						

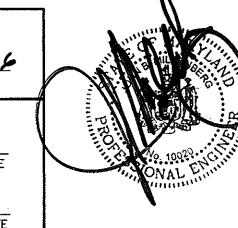
NOTES:
1. HORIZONTAL LOCATION OF INLETS IS CENTER OF STRUCTURE, AT FLOW LINE.
2. HGL IS EQUAL TO TOP OF PIPE UNLESS OTHERWISE NOTED.
3. 'TOP OF STRUCTURE' IS SHOWN AT TOP OF SLAB, CENTER OF INLET AT FLOW LINE.

PIPE SCHEDIILE

	LENGTH
15"HDPE	122 L.F.
18"HDPE	346 L.F.



APPROVED: DEPARTMENT OF PLANNING AND ZONING





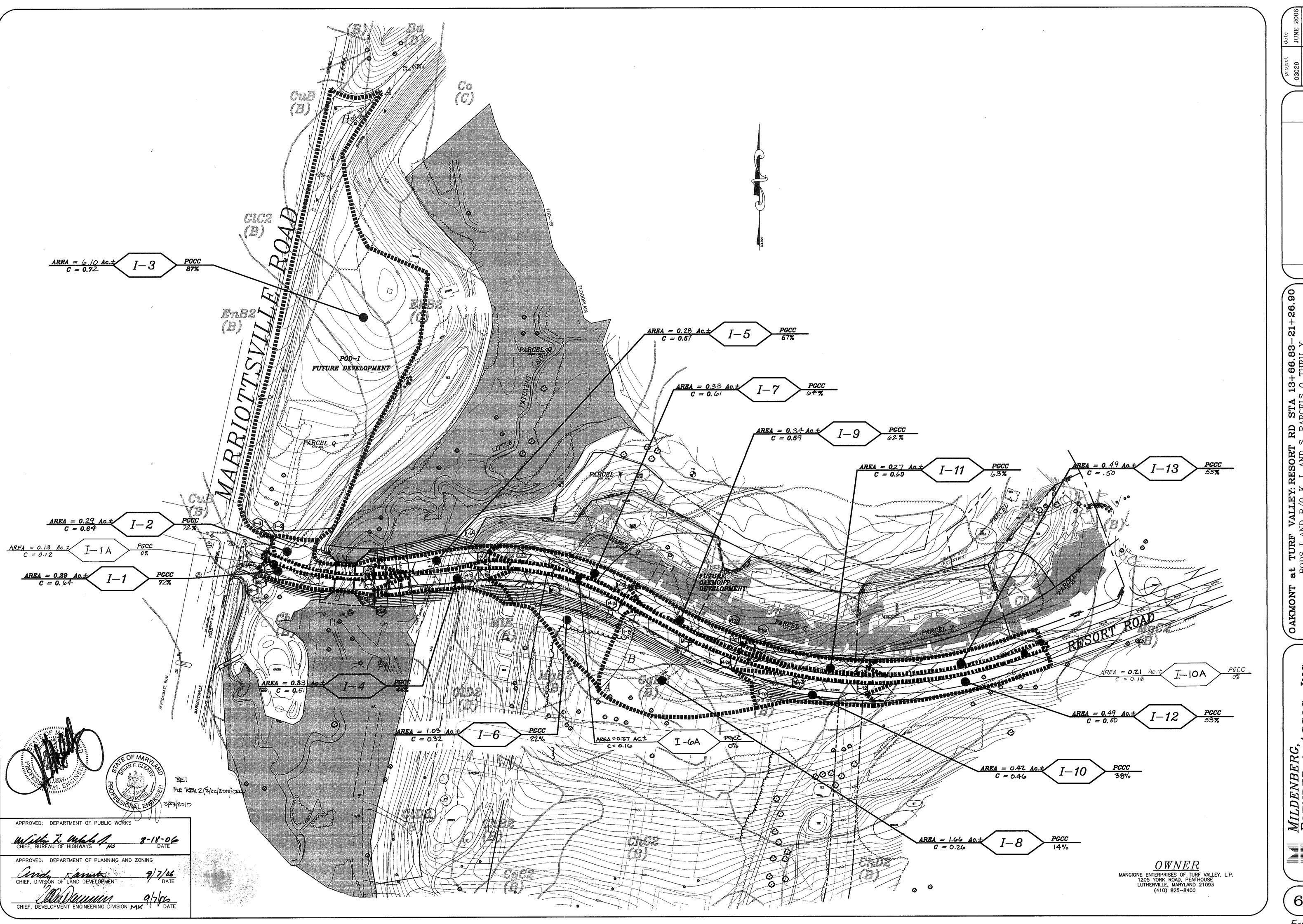
FOR REV. 2 (2/22/2010) ONLY

OWNER

MANGIONE ENTERPRISES OF TURF VALLEY, L.P. 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 (410) 825-8400

RESORT RD STA 13+66.83-2, L AND S, PARCELS Q THRU Y
P/O PARCEL 8 - BLOCK 10
HOWARD COUNTY, MARY

5 of 7



NT at TURF VALLEY: RESORT RD STA 13+66.83-21+26.90

PODS I AND P/O K, L AND S, PARCELS Q THRU Y

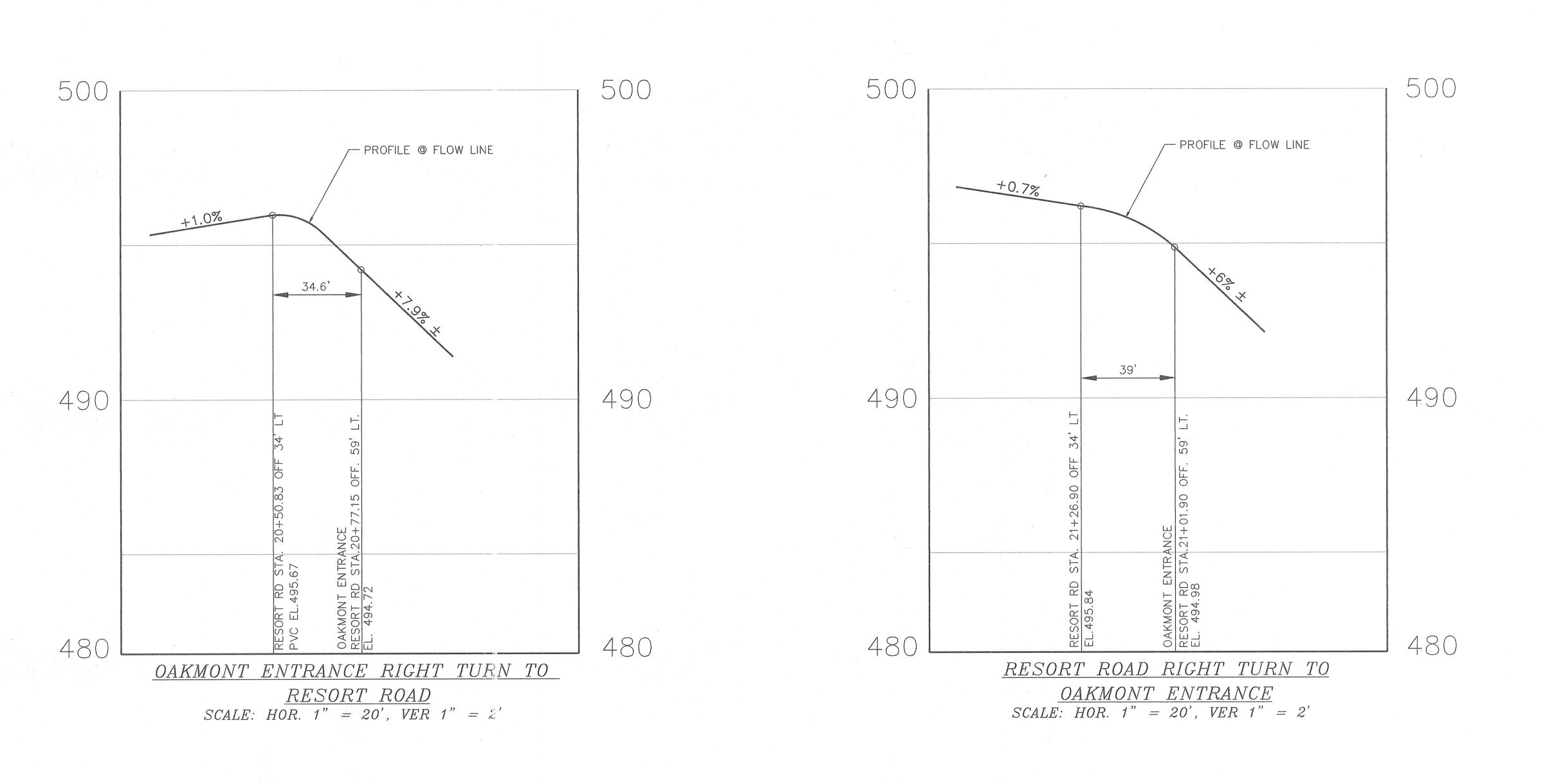
TAX MAP 16 - P/O PARCEL 8 & 50 - BLOCKS 10 & 16

IRD ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

6 of 7

F-02-82



PPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF BUREAU OF HIGHWAYS

PPROVED: DEPARTMENT OF PLANNING AND ZONNING

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE

OWNER

MANGIONE ENTERPRISES OF TURF VALLEY, L.P.

1205 YORK ROAD, PENTHOUSE

LUTHERVILLE, MARYLAND 21093

(410) 825-8400

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-02-82