FILLET PROFILES

THIS AS-BUILT WAS PERFORMED BY BENCHMARK ENGINEERING, INC.

ROAD CONSTRUCTION PLANS OAKMONT at TURF VAL

RESORT ROAD STA. 13+66.83 THRU 21+26.90

RIGHT-OF-WAY ELEVATION CHART NAVD 88 RW PT. NO. DESCRIPTION ELEVATION 494,46 REBAR & CAP 495.66 REBARE CAP REBARE CAP 496.96 REBARE CAP REBAR & CAP 481.45 REBAR & CAP

AS-BUILT NOTES:

HORIZONTAL DATUM FOR THIS AS-BUILT IS BASED ON THE MARYLAND STATE REFERENCE SYSTEM NAD 83 /ADJOT AS PROJECTED FROM HO.CO. GEODETIC CONTROL STATIONS 16E1 AND 0012. VERTICAL DATUM FOR THE AS-BUILT 15 NORTHAMERICAN VERTICAL DATUM NAVD88 AS PROSECTED FROM THE ABOVE MENTIONED HOWARD COUNTY GEODETIC CONTROL STATIONS,

2.) THE IN STRUMENTS USED IN PERFORMING THIS AS-BUILT WERE A 5" TOTAL STATION AND PRISM AND RTK GPS. 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 INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR

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

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

36.48 ACRES

4. PROJECT BACKGROUND:

AREA OF TRACT :

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

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

POD K POD S POD L

OPEN SPACE/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.

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

STA. No. 3440001 N 534.735.478 836,286,297 STA. No. 3440002 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.

BE MAINTAINED BETWEEN ANY STREET LIGHT AND ANY TREE.

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

21. THE TERM 'POD' USED HEREIN REFERS TO LAND USE AREAS ESTABLISHED IN THE FINAL DEVELOPMENT PLAN

All permitted uses in the PGCC Multi-use Subdistrict All permitted residential uses in the PGCC Multi-use Subdistrict All permitted uses in the PGCC Multi-use Subdistrict

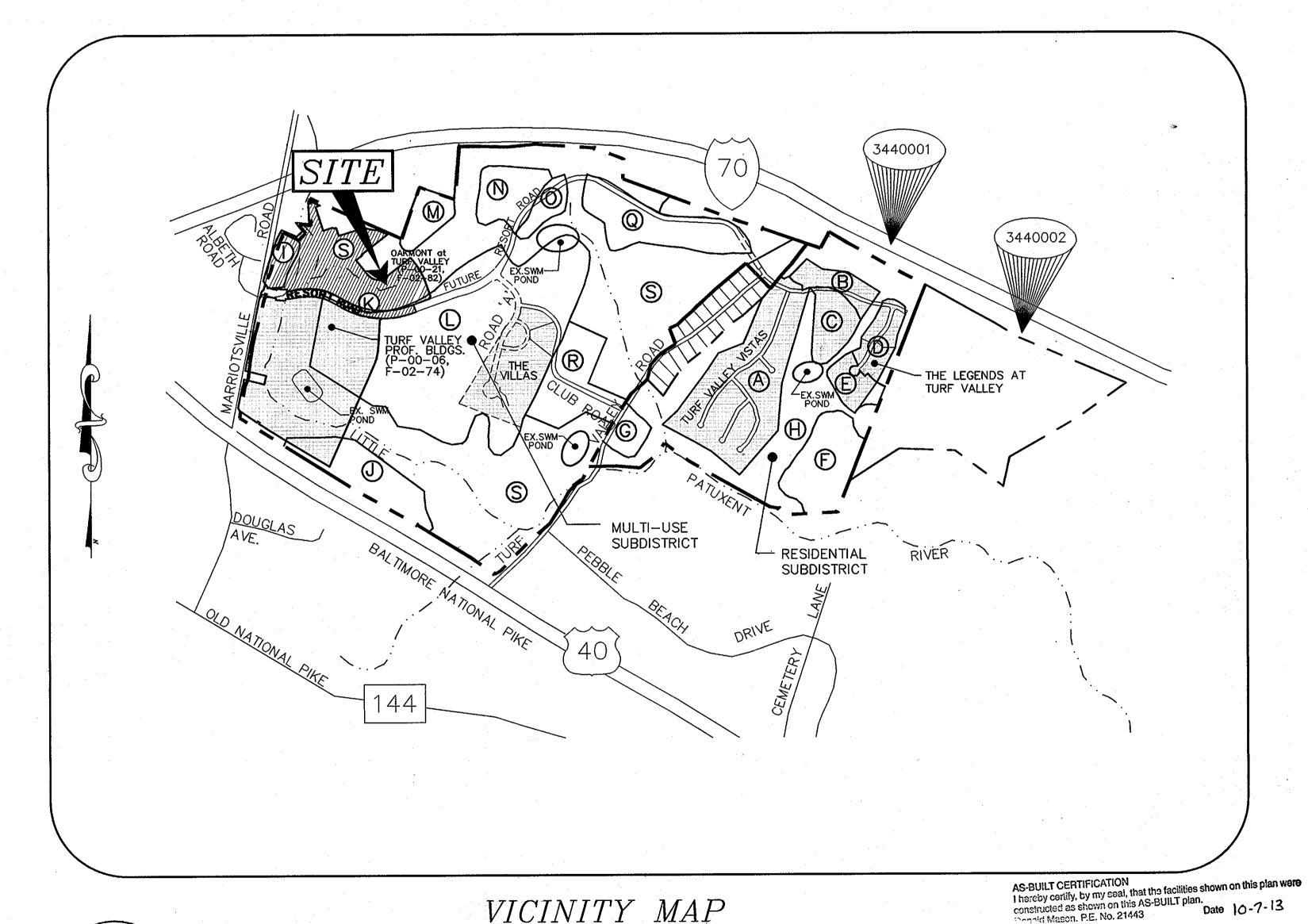
FOR TURF VALLEY. A SUMMARY OF THE APPLICABLE LAND USE AREAS IS SHOWN BELOW:

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

THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL

MEETS TECHNICAL REQUIREMENTS.

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

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

BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF BUREAU OF HIGHWAYS

M REV. 2/2010 ONH BENCHMARK ENG, INC. 8480 BACIMORE NATLAKE, SINE 418 ELLICOTT CITY, MD 21043

VICINITY MAP

OWNER

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

Arofessional 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. 21443 Expiration Date: 12-21-14

AS-BUILT

SO

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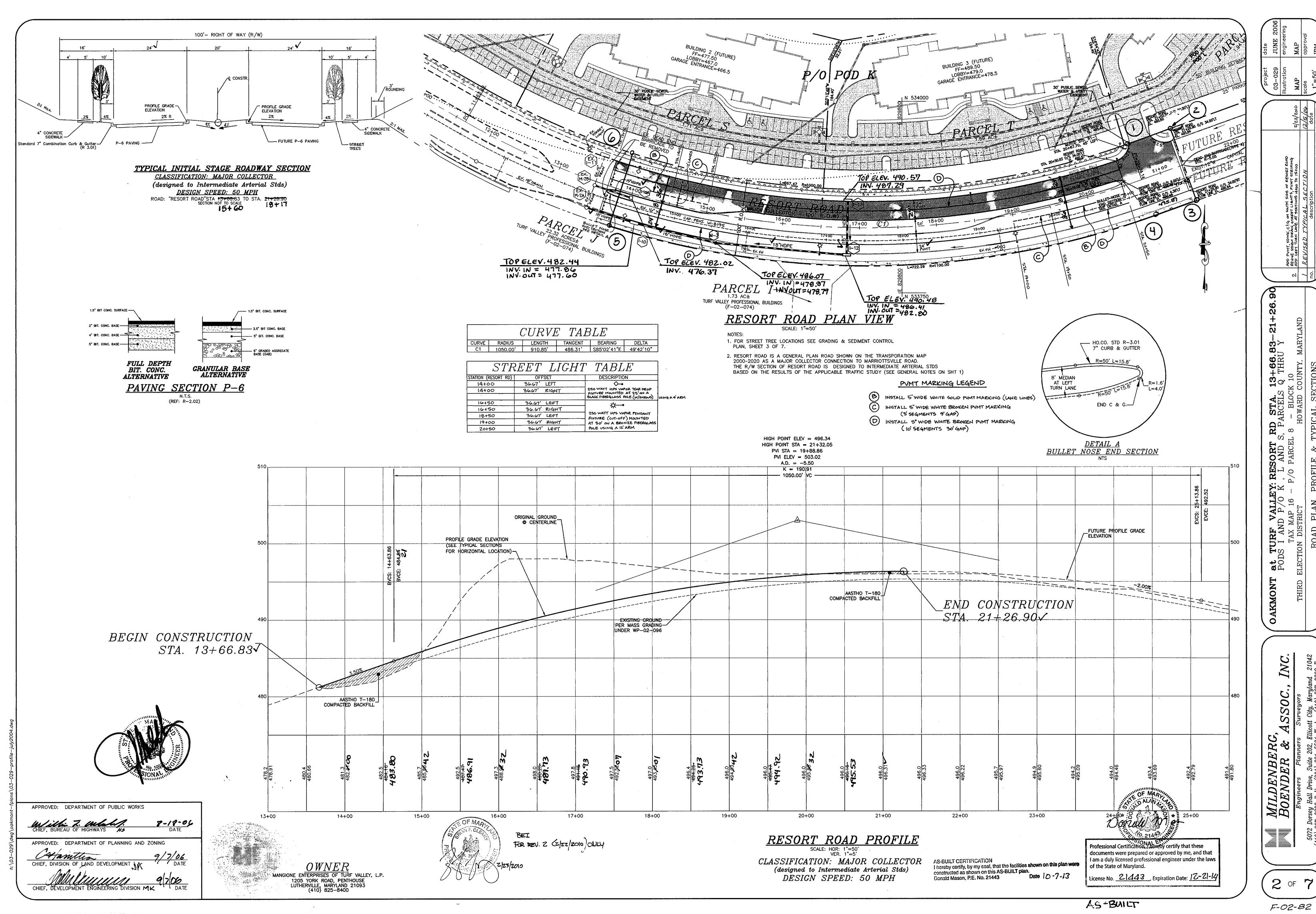
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RD STA.13+66.8
PARCELS Q THRU
S 8 - BLOCK 10
HOWARD COUNTY

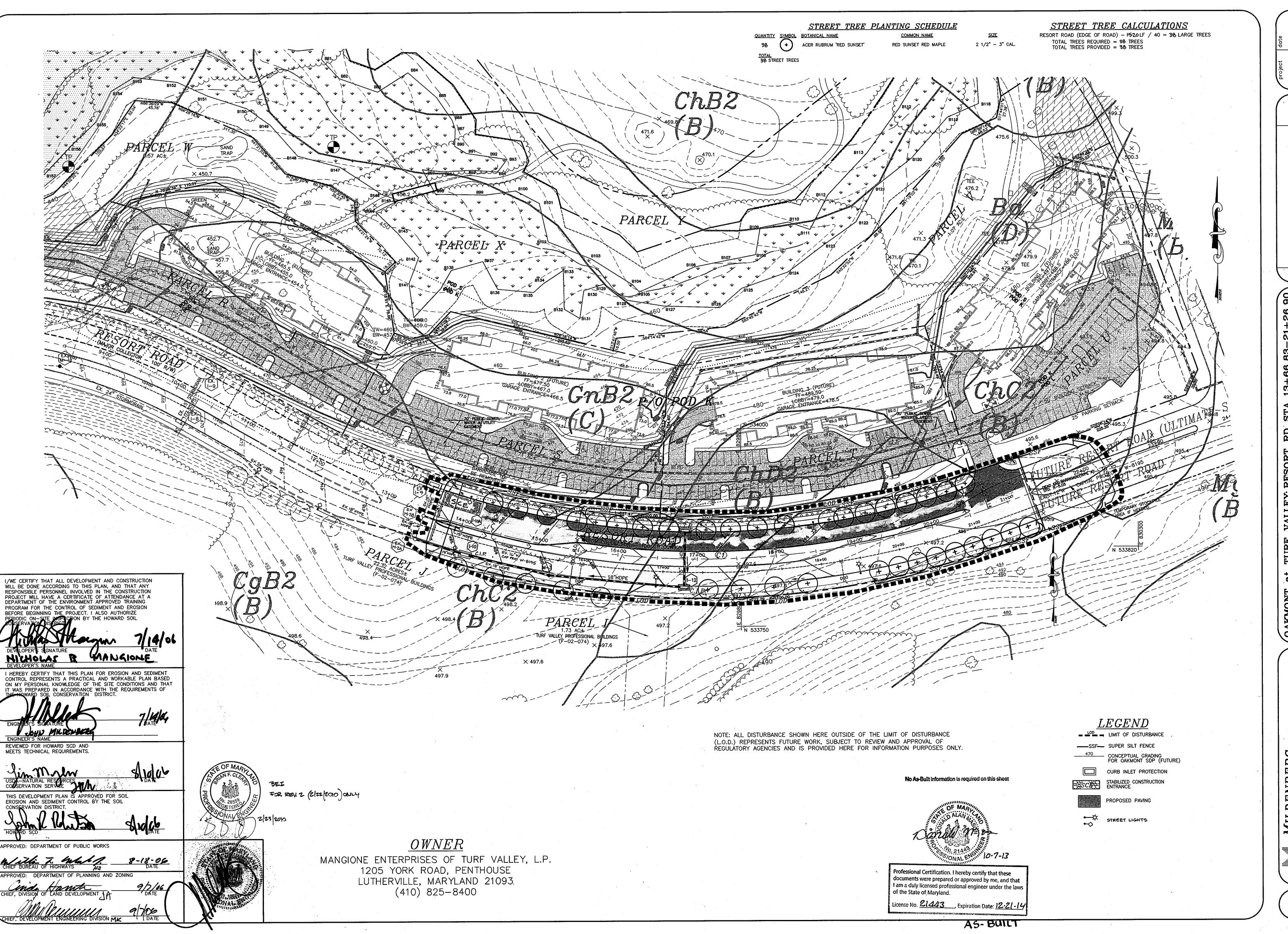
RESORT L AND S, P/O PARCEL

DENBI 'NDER

OF 7



F-02-82



3 OF 7

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 FÉSCUE 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 ACRÉ OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE

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

/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

C ON-SITE INSPECTION BY THE HOWARD SOIL

HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT

CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED

REVIEWED FOR HOWARD SCD AND

CONSERVATION DISTRICT

MEETS TECHNICAL REQUIREMENTS.

JANN JUN JONA-NATURAL RESOURCES MIN JONSERVATION SERVICE MIN

APPROVED: DEPARTMENT OF PUBLIC WORKS

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

ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT

PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF

- 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).
- 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.
- 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 COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 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. 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: _ _ ACRES AREA TO BE ROOFED OR PAVED: ACRES AREA TO BE VEGITATIVELY STABILIZED: __ ACRES TOTAL CUT-__ CU. YDS. 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.
- 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 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.

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
- 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 MATERIAL 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 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 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
- ii. TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSON-SON GRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.
- 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:
 - o. 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.
- TOPSOIL APPLLICATION
- 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" 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
- 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 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 TO 8.0. IF COMPOST DOES NOT MEET THESE REQUIREMENTS,
- 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

THE APPROPRIATE CONSTITUENTS MUST BE ADDED TO MEET THE REQUIREMENTS PRIOR TO USE.

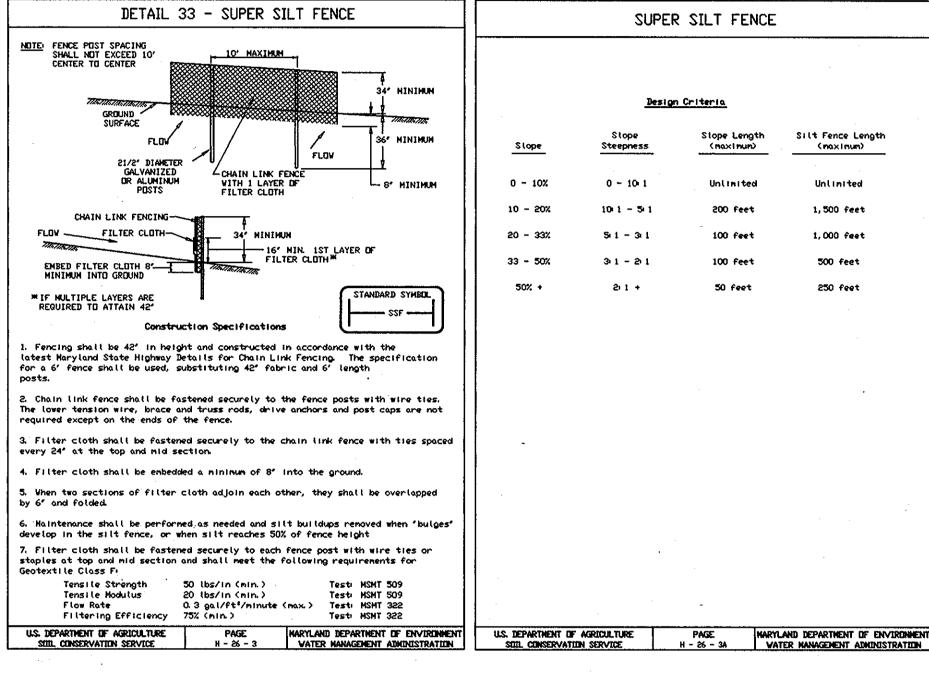
SQUARE FEET, AND 1/3 THE NORMAL LIME APPLICATION RATE. REFERENCES: GUIDELINE SPECIFICATIONS, SOIL PREPARATION AND SODDING. MD-VA, PUB. #1, COOPERATIVE EXTENSION SERVICE, UNIVERSITY OF MARYLAND AND VIRGINIA POLYTECHNIC INSTITUTES. REVISED 1973.

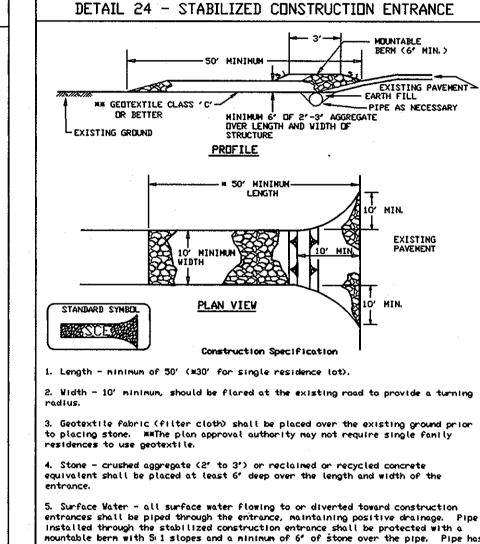
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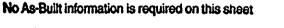
MANGIONE ENTERPRISES OF TURF VALLEY, L.P. 1205 YORK ROAD, PENTHOUSE LUTHERVILLE, MARYLAND 21093 (410) 825-8400

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT
- 2. 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 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.









Professional Certification. I hereby certify that these documents were prepared or approved by me, and that tam a duly licensed professional engineer under the laws of the State of Maryland. License No. 21443 ____ Expiration Date: 12-21-14

AS-BUILT

က် DETAILS

83 | Y **66.**E HRU STA. ARCELS

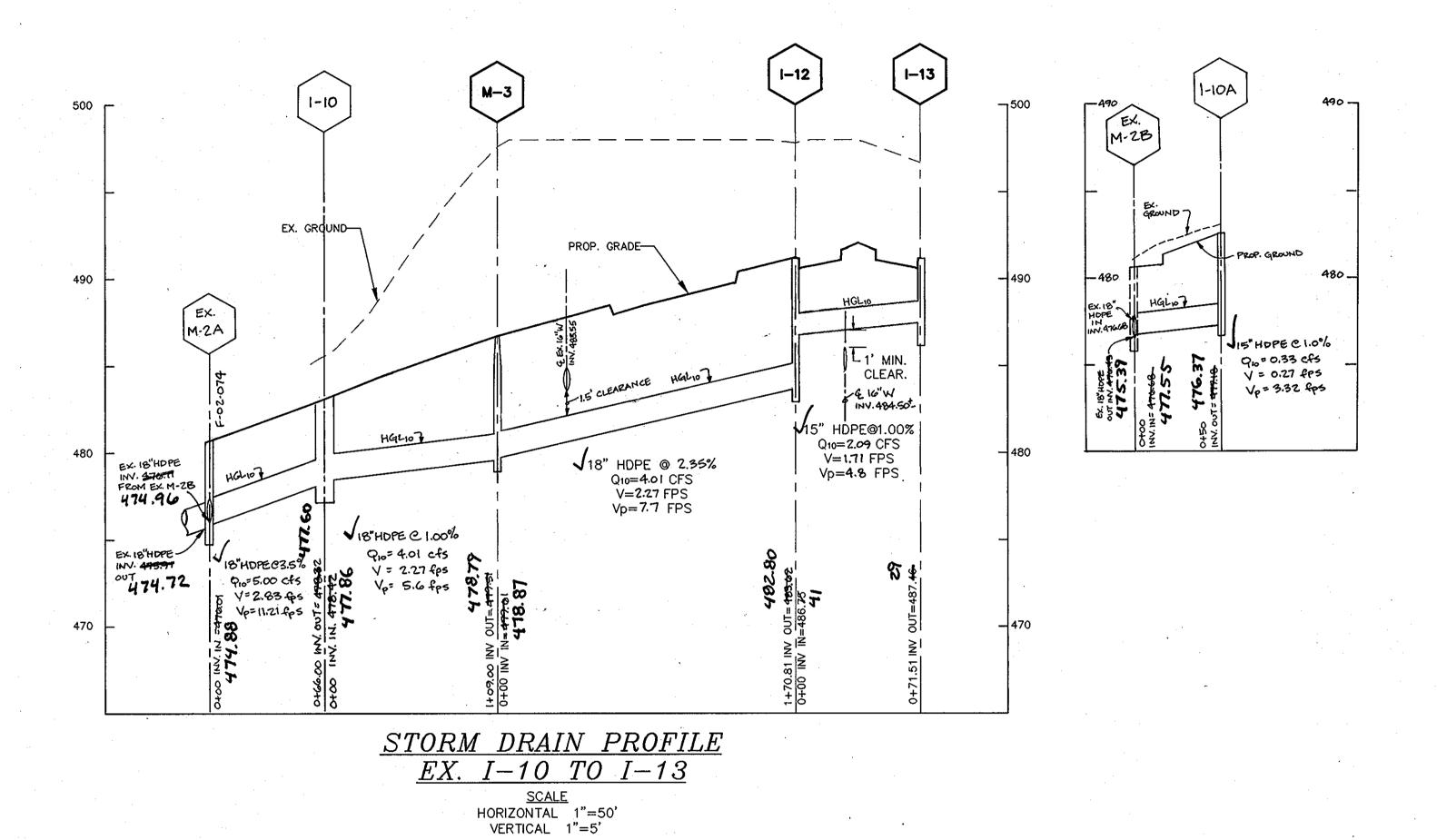
RD P ∞ ORT

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT VATER MANAGEMENT ADMINISTRATION SUIL CONSERVATION SERVICE

to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized

according to the amount of runoff to be conveyed. A 6' minimum will be required.

4 of a



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 07	479.61 478.87		BRICK MANHOLE, STD. G 5.01
I-12	RESORT ROAD STA. 16+84.17, RT. 34.0'	491.18 490.49	486.75 41		TYPE "A-10" INLET STANDARD SD 4.02
I13	RESORT ROAD STA. 16+84.14, LT. 34.0'	4 91.18 490·57		487.46 29	TYPE "A-10" INLET STANDARD SD 4.02
1-10	RESORT ROAD STA. 14+13.74, RT. 34.1'	48289 44	478.42477.86		TYPE "A-10" INLET STANDARD SD 4.02
1-10A	RESORT ROAD STA. 14+00.00, RT. 6.00'	482.8002		497.78 476.37	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 SCHEDULE

15"HDPE 122 L.F. 18"HDPE 346 L.F.	PIPE SIZE	LENGTH		
18"HDPE 346 L.F.	15"HDPE	122 L.F.		
	18"HDPE	346 L.F.		
	,			

OWNER

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

AS-BUILT CERTIFICATION
I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this AS-BUILT plan.
Donald Mason, P.E. No. 21443

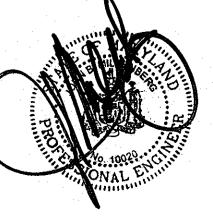
Date 10-7-13



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. 21443 Expiration Date: 12-21-14

CHIEF, DIVISION OF LAND DEVELOPMENT JA DATE CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE



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

AS-BUILT

5 of 7

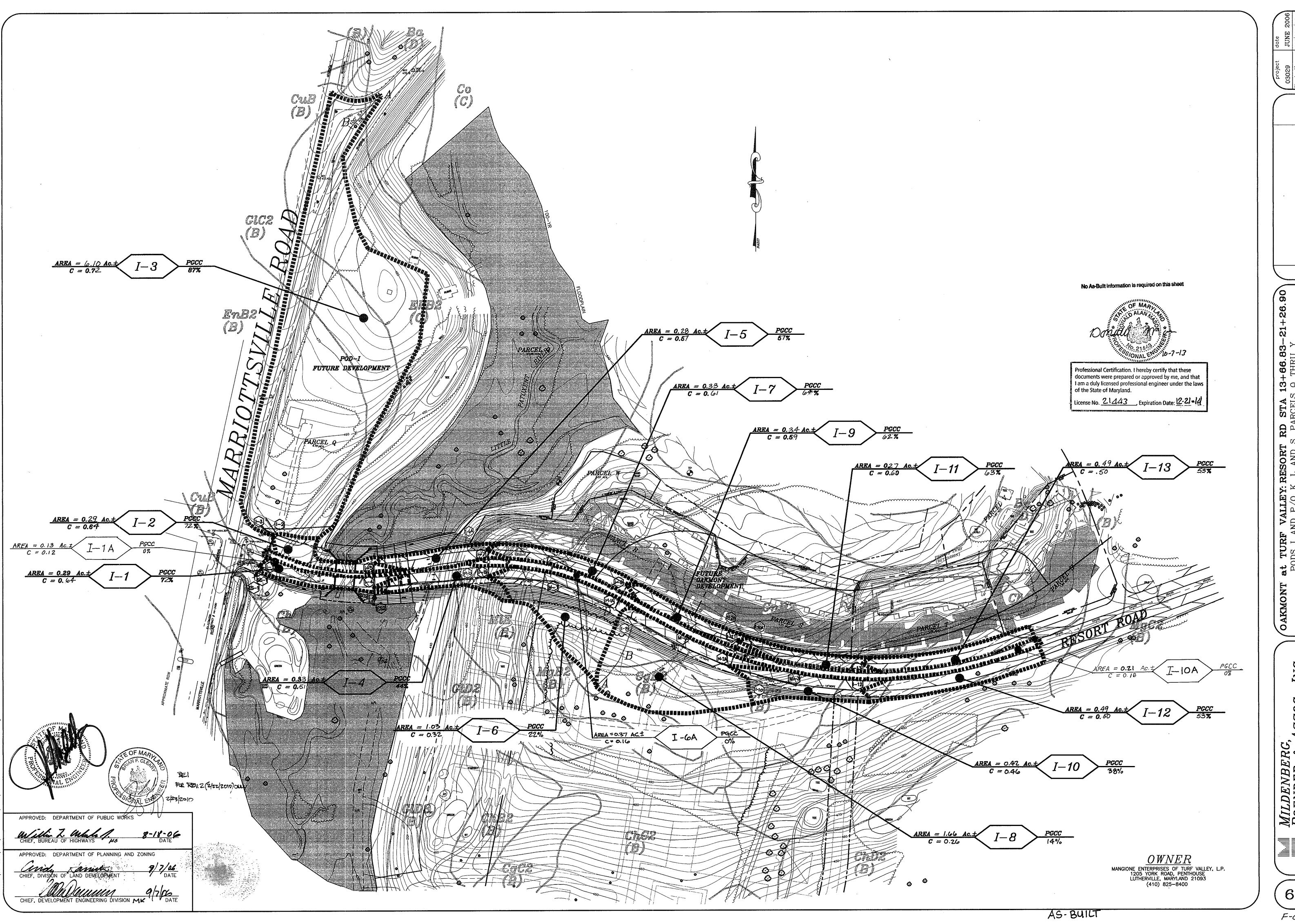
at TURF VALLEY: RESORT RD STA 13+66.83-21+26.90

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

TAX MAP 16 - P/O PARCEL 8 - BLOCK 10

HOWARD COUNTY, MARYLAND

STORM DRAIN PROFILES



RESORT F L AND S,

SSOC.

MILDENBERG, BOENDER & A

6 of 7

500 500 PROFILE @ FLOW LINE 34.6 490 490 490 490 480 480 480 OAKMONT ENTRANCE RIGHT TURN TO RESORT ROAD RIGHT TURN TO $\frac{RESORT\ ROAD}{SCALE:\ HOR.\ 1"\ =\ 20',\ VER\ 1"\ =\ 2'}$ OAKMONT ENTRANCE

SCALE: HOR. 1" = 20', VER 1" = 2'

AS-BUILT CERTIFICATION
I hereby certify, by my seal, that the facilities shown on this plan were constructed as shown on this AS-BUILT plan.
Densit Mason. P.E. No. 21443

Date 10-7-13



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.

7 OF 7

AS-BUILT

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

<u>OWNER</u>