SHEET INDEX DESCRIPTION COVER SHEET SITE DEVELOPMENT PLAN (GEOMETRY SHEET) SITE DEVELOPMENT PLAN (GRADING) AND SEEDING CHART SITE DEVELOPMENT PLAN (UTILITIES) STORM DRAIN DRAINAGE AREA MAP SEDIMENT AND EROSION CONTROL PLAN SEDIMENT AND EROSION NOTES AND DETAILS STORMWATER MANAGEMENT FACILITY (SAND FILTER) UNDERGROUND SWMF NOTES AND DETAILS LANDSCAPE PLAN STORM DRAIN PROFILES AND DETAILS STORM DRAIN PROFILES AND DETAILS STORM DRAIN PROFILES AND DETAILS; NOTES AND DETAILS ENTRANCE, TRAFFIC CONTROL, STRIPING & SIGNAGE PLAN

EUCLID CORNERS - PARCEL 'A' LOTS 1276 - 1278 & OPEN SPACE LOT 1279

RETAIL/OFFICE BUILDING, AND RESIDENTIAL LOTS PART OF PARCEL: 873, 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND SITE DEVELOPMENT PLAN

ELEV. 193.71 BEING 38.8 SOUTHEAST OF A FIRE HYDRANT, 5.6' NORTH OF THE EXISTING CONCRETE CURB ALONG NORTH SIDE OF WASHINGTON BLVD (RT.1 E 1,386,524.195 ELEV. 175.23 BEING 44' SOUTHWEST OF A LIGHT POLE & 148' NORTH OF THE GATE AT ATLANTIC E 1,384,992.262

* USES PERMITTED SHALL BE AS OUTLINED IN SECTION 127.2
OF THE HOWARD COUNTY ZONING REGULATIONS.

GENERAL NOTES

- 1. THE SUBJECT PROPERTIES ARE ZONED CE/R-12 PER THE 2/02/2004 COMPREHENSIVE ZONING PLAN.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 3. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST (FIVE) 5 WORKING DAYS PRIOR TO THE START OF WORK.
- 4. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK AND RECEIVE CONFORMATION THAT

32. WAIVER PETITION (WP-14-135) WAS APPROVED BY THE

EXTENSION REQUESTS.

DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING

DIRECTOR OF THE DEPARTMENT OF PLANNING AND CONING ON JUNE 12, 2014. IT WAS A REQUEST TO WAIVE SECTIONS 16.156(6)(1) f(2) TO EXTEND THE DEADLINES TO APPLY FOR BUILDING PERMITS. THE WAIVER WAS CONDITIONALLY APPROVED. THE CONDITIONS ARE:

a) COMPLIANCE WITH DED COMMENTS CONCERNING SWM & STATE HIGHWAY PLANS.

b) THE COMMER CIAL AND AT LEAST ONE RESIDENTIAL PERMIT SHAILBE APPLIED FOR ON OF BEFORE JUNE 12, 2013.

THE AMOUNT OF \$507.25 WILL BE PAID

"PROFESSIONAL CERTIFICATION. IHERESY

OR APPROVED BY ME, AND THAT I AM A DULY

THE LAWS OF THE STATE OF HARYLAND,

LICENSE NO. ISZIZ, EXPIRATION DATE:

LICENSED PROPESSIONAL ENGINEER UNDER

12/24/2012." THIS SEAL APPLIES ONLY TO

CERTIFY THAT THESE DOCUMENTS ARE PREPARED

TO THE HOWARD COUNTY FOREST

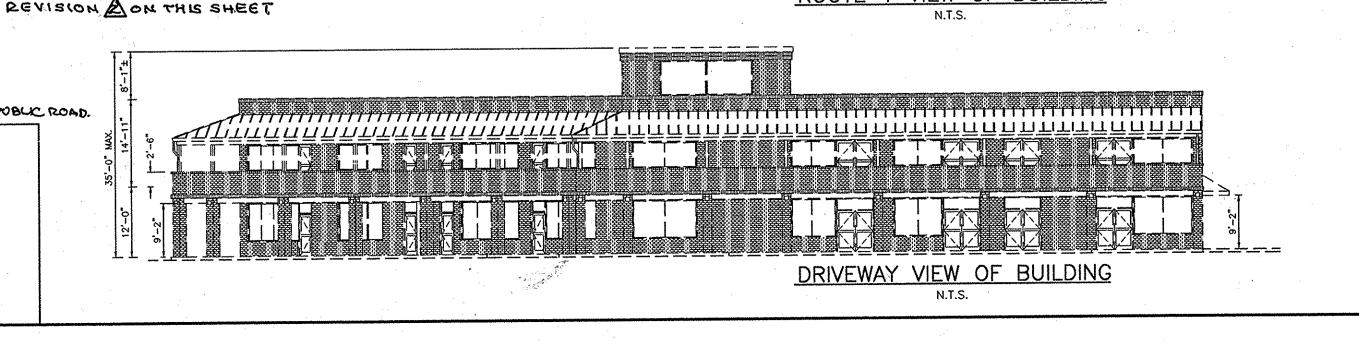
CONSERVATION FUND.

- 5. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF
- 6. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
- 7. THE CONTOURS SHOWN HEREON HAVE BEEN TAKEN FROM FIELD RUN TOPOGRAPHIC SURVEYS AT 2' INTERVAL. THE TOPOGRAPHY WAS PREPARED BY BENCHMARK ENGINEERING, INC. DATED SEPTEMBER 2001.
- 8. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENTS NOS. 38D5 AND 38D6 WERE USED FOR THIS PROJECT.
- 9. BOUNDARY SURVEY FOR THIS PROJECT WAS PERFORMED BY BENCHMARK ENGINEERING, INC. ON OR ABOUT APRIL, 2003.
- 10. WATER AND SEWER FOR THIS SUBDIVISION IS PUBLIC. SEWER & WATER CONTRACT Nos. ARE # 23-5 AND # 44-0906.
- 11. THE WETLANDS DELINEATION FOR THIS PROJECT WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. DATED JANUARY 05, 2001.
- 12. FOREST CONSERVATION OBLIGATION FOR THIS PROJECT WAS ADDRESSED UNDER F-06-46.
- 13. A TRAFFIC STUDY HAS BEEN PREPARED BY TRAFFIC CONCEPTS, DATED FEBRUARY 2005.
- 14. GEOTECHNICAL REPORT HAS BEEN PREPARED BY MARSHALL ENGINEERING, INC.
- 15. EXISTING UTILITIES WERE LOCATED BY RECORD DRAWINGS AND FIELD LOCATIONS BY BENCHMARK ENGINEERING INC., DATED SEPTEMBER, 2001
- 16. UNLESS NOTED AS "PRIVATE" ALL EASEMENTS ARE PUBLIC.
- 17. CONTRACTOR SHALL ADJUST ALL UTILITIES, RIM ELEVATIONS AND INVERT ELEVATIONS
- 18. ALL EXTERIOR LIGHTING SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III (1993), ZONING SECTION 134 AND AS SHOWN ON THESE PLANS.
- 19. ALL HANDICAP RAMPS SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STD. DETAIL
- R 4.01 AND ALL CURRENT ADA REQUIREMENTS. 20. LANDSCAPING SURITY IN THE AMOUNT OF \$13,980.00 HAS BEEN POSTED AS PART OF THE
- THE FLOOD PLAIN LIMITS SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING FLOODPLAIN INFORMATION TAKEN FROM THE HOWARD COUNTY DEEP RUN FLOOD PLAIN STUDY FOR THE AREA OF THIS SHALLOW RUN, TRIBUTARY D-5. GENERAL COUNTY PROJECT GC 0119 WITH REVISION DATED 1/97.
- 22. NO CLEARING GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE WETLANDS, STREAMS OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- 23. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- 23. PROPOSED BUILDING WILL HAVE AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
- 24. IN ACCORDANCE WITH SECTION 128 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD
- 25. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - WIDTH 12' (16' SERVING MORE THAN ONE RESIDENCE); SURFACE 6" OF COMPACTED CRUSHER RUN BASE W/TAR AND CHIP COATING GEOMETRY - MAX. 15% GRADE, MAX, 10% GRADE CHANGE AND MIN, 45' TURNING STRUCTURES - (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE; MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- 26. THE ARTICLES OF INCORPORATION FOR THE HOMEOWNERS ASSOCIATION WERE RECORDED ON 11-11-06 AS NO. D1158.3.770 AMONG THE STATE OF MARYLAND DEPARTMENT OF ASSESSMENT AND TAXATION RECORDS.
- 27. THE FOREST CONSERVATION OBLIGATION FOR THE PROPERTIES SHOWN ON THIS PLAN HAS BEEN PROVIDED BY F-06-046, BY CREATING A 0.40 AC. ONSITE FOREST CONSERVATION EASEMENT CONTAINING 0.30 AC. OF RETENTION AND 0.10 AC. OF REFORESTATION AND A PAYMENT OF \$9583.20 TO THE HOWARD COUNTY CONSERVATION FUND FOR THE REMAINING OBLIGATION OF 0.44 AC./19.166.4 S.F. OF REFORESTATION. SEE F-06-046 FOR THE FOREST CONSERVATION PLAN
- PREVIOUS DEPARTMENT OF PLANNING AND ZONING REFERENCE NUMBERS INCLUDE: F-06-046
- 29. THE 2007 SWM ACT PRACTICES ARE BEING USED FORTHIS SUBDIVISION. LOT 1276 - NON & ROOFTOP DISCONNECTION AND INFILTRATION BERM.

 LOT 1277 - 2 ROOFTOP DISCONNECTION.

 LOT 1278 - NON-ROOFTOP DISCONNECTION AND INFILTRATION BERM.
- 30. ALL ESD PRACTICES ARE PRIVATELY OWEND AND MAINTAINED.
- 2 31. DISTURBANCE WITHIN THE STREAM BUFFER HAS BEEN ACCEPTED AS NECESSARY DISTURBANCE IN ACCORDANCE WITH SECTION (6.116 (CXI) OF THE SURPIVISION AND LAND DEVELOPMENT REGULATIONS SINCE IT IS NECESSARY FOR CONSTRUCTION OF A PUBLIC ROAD.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CHIEF, DIVISION OF LAND DEVELOPMENT



LEGEND AbC1 SOILS CLASSIFICATION SOILS DELINEATION EXISTING CONTOURS -----999 -----PROPOSED CONTOURS EXISTING WOODS LINE PROPOSED WOODS LINE **EXISTING STRUCTURE** LIMIT OF DISTURBANCE SILT FENCE SUPER SILT FENCE

3 12-16-14 REVISE HOUSE FOOT PRINT TO SHOW BELLE GROVE & MARGATE AND SHOW HOUSES ON COTS 8-6-12 ADD CAPITAL POOLD-1124-03 (BRECHFIELD AYE, IMPROVEMENTS) BY NOLAN ASSOC. 1 10-13-10 ADD ESD/WQV INFORMATION FOR LOTS 1276-1278 NO. DATE **BENCHMARK** NOTIFIED A LAND SURVEYORS ▲ PLANNERS 8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 OWNER:

PROJECT: EUCLID CORNERS PARCEL 'A', LOTS 1276-1278 & OPEN SPACE LOT 1279 TAX MAP: 38, GRID: 13 PART OF PARCEL: 873 LOCATION: BELLE GROVE CORP. 4024 BELLE GROVE ROAD 1st ELECTION DISTRICT BALTIMORE, MD 21225-2657 HOWARD COUNTY, MARYLAND 410-789-7070

> SHEET <u>1</u> OF <u>14</u> SDP - 06 - 22

PROJECT NO. 1465

C) ALL RESIDENTIAL BUILDING PERMITS MUST BE APPLIED FOR ON OR BE FORE APPIL 15, 2016. d) ANOTE SUMMARIZING THE WAIVER SHALL BE ADDED TO THE SDP. LOIS 313-315 L 7440 F. 110 e) THE DEPARTMENT WILL NOT ALLOW FURTHER 19+70 | WS ELEV 133.0 Q= 763 CFS IES E. ROBERIS & JOHN BARAN PARCEL 352 L4125 F.315 -Based on revision 2 0.0093 Ac/405.8 SF OF FOREST CONSERVATION EASEMENT AREA WILL BE ABANDONED, A FEE-IN- LIEU IN 10

ROUTE 1 VIEW OF BUILDING

SCALE: 1"= 30 POVERHANG

BENCH MARKS

STAMPED DISC ON CONCRETE MONUMENT

HO. CO. #38D5 (NAD '83)

HO. CO. #38D6 (NAD '83)

SITE ANALYSIS DATA CHART PARCEL 'A'

LIMIT OF DISTURBANCE AREA:

SITE PER USE:

TOTAL COMMERCIAL PROJECT AREA:

AREA OF PARCEL 'A': AREA OF DEDICATED RIGHT-OF-WAY:

PROPOSED USES FOR SITE AND STRUCTURES:

H.) MAXIMUM NUMBER OF EMPLOYEES, TENANTS ON

RETAIL, 5.0 SPACES PER 1,000 S.F.

K.) TOTAL NUMBER OF SPACES PROVIDED:

THE APPROVAL OF THE DPZ."

LIMIT OF DISTURBED AREA:

TOTAL NUMBER OF UNITS:

OPEN SPACE ON SITE:

PRESENT ZONING:

TOTAL RESIDENTIAL PROJECT AREA: AREA OF PLAN SUBMISSION:

AREA OF LOTS 1274, 1275, & 1276:
AREA OF OPEN SPACE LOT 1277:
AREA OF DEDICATED RIGHT-OF-WAY:

SITE ANALYSIS DATA CHART LOTS 1274 THRU 1277

PROPOSED USES FOR SITE AND STRUCTURES:

AREA OF RECREATION OPEN SPACE REQUIRED BY

SUBDIVISION AND LAND DEVELOPMENT REGULATIONS

NUMBER OF PARKING SPACES REQUIRED:

NUMBER OF PARKING SPACES PROVIDED:

NUMBER OF PARKING SPACES REQUIRED ON SITE:
PARKING IS REQUIRED BASED ON SPECIFIC USES.
NUMBER OF PARKING SPACES REQUIRED BY HOWARD

COUNTY ZONING REGULATIONS (PER SECTION 133.D) GENERAL OFFICE, 3.3 SPACES PER 1,000 S.F.

OFFICE SPACE: 15,020 S.F. REQUIRING 50 SPACES RETAIL SPACE: 2,650 S.F. REQUIRING 14 SPACES

(INCLUDING 3 HANDICAPPED PARKING SPACES)

L.) BUILDING COVERAGE FOR COMMERCIAL PORTION OF SITE: 14% (8,835s.f)

"NO CHANGE IN USE(S) OR THE SQUARE FOOT AREA(S) OF USE(S) IN THE COMMERCIAL BUILDING IS PERMITTED WITHOUT COMPLIANCE WITH THE PARKING REQUIREMENTS OF ZONING SECTION 133 AND

LOT/PARCEL

PARCEL 'A'

OTS1274-1277

EUCLID CORNERS

WATER CODE AO2

GRID No.

13

SUBDIVISION NAME

19263

CHECK: DAM

1.30 AC.± 1.30 AC.±

0.60 AC.±

0.83 AC.±

2 PER DWELLING UNIT 2 PER DWELLING UNIT

SINGLE FAMILY DETACHED RESIDENTIAL

ADDRESS CHART

PARCEL 'A' 6661 WASHINGTON BLVD.

LOT 1270 6326 EUCLID AVENUE LOT 1277 6322 EUCLID AVENUE
LOT 1278 6318 EUCLID AVENUE

USE TABULATION

PERMIT INFORMATION CHART

TAX MAP

SEWER CODE 2152209

USE

SINGLE FAMILY RESIDENTIAL

SITE DEVELOPMENT PLAN

SECTION/AREA

CE/R-12

COMMERCIAL/OFFICE

AREA

1.52 AC.

1.30 AC.

2.82 AC.

LOT/PARCEL#

ELEC. DIST.

PARCEL 'A'. LOTS 1274-1276

OPEN SPACE LOT 1277

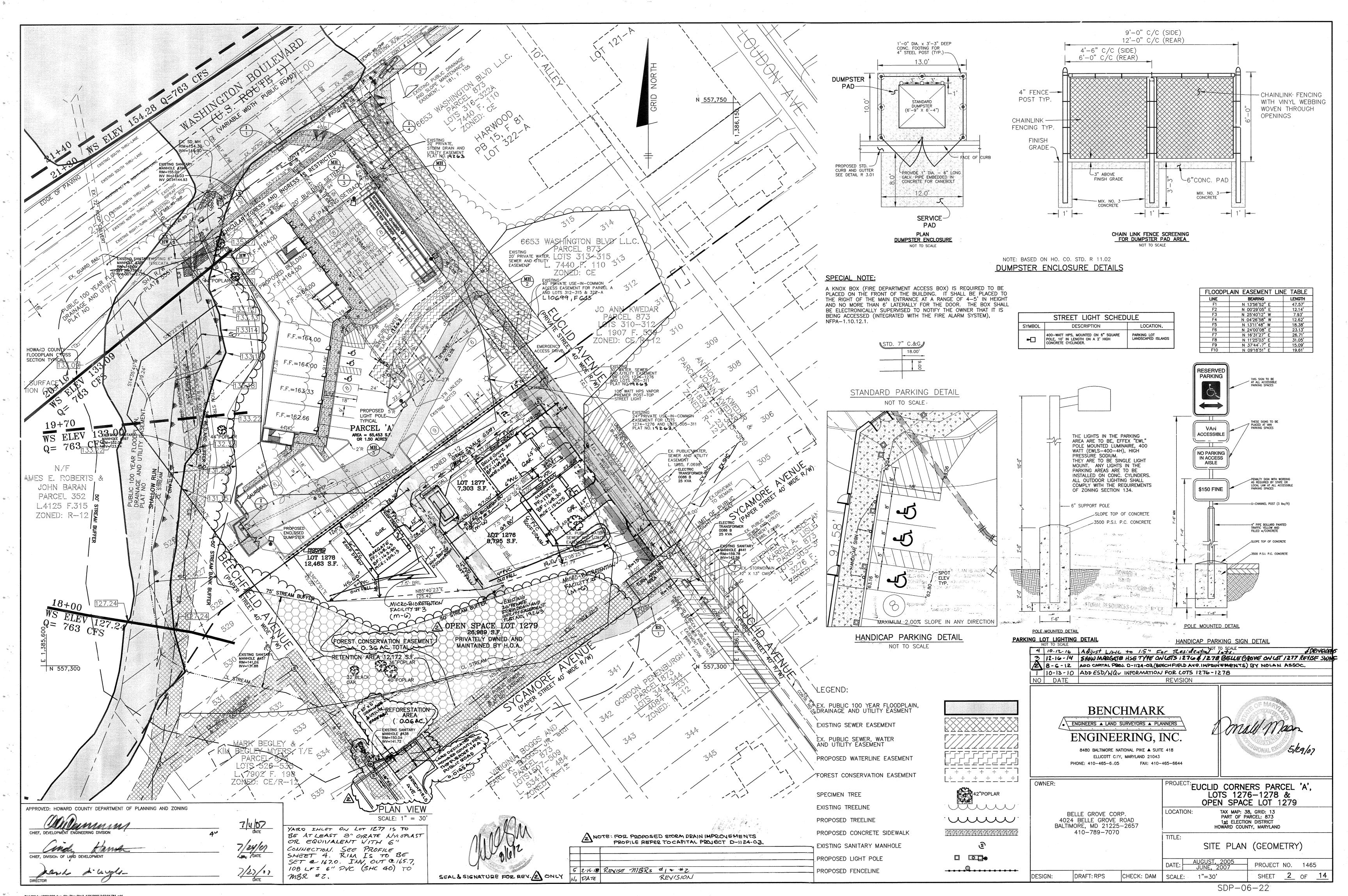
6012.00

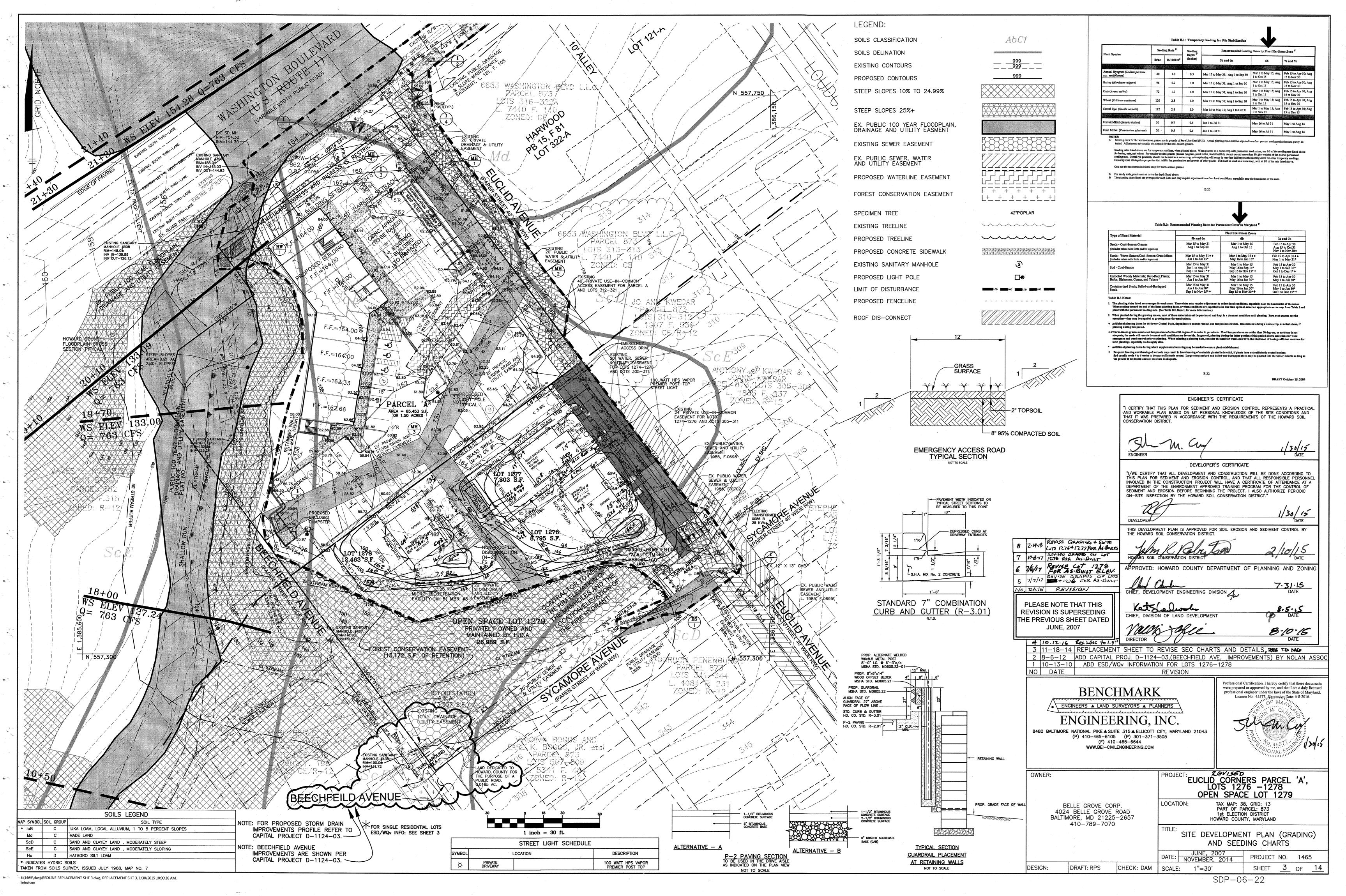
SQUARE FOOT AREA FOR COMMERCIAL USE IN ACCORDANCE WITH ZONING SECTION 127.2.C.1.a ONLY A MAXIMUM OF 15% OF THE BUILDING FLOOR AREA CAN BE DEVOTED TO USES OTHER THAN OFFICE USE:

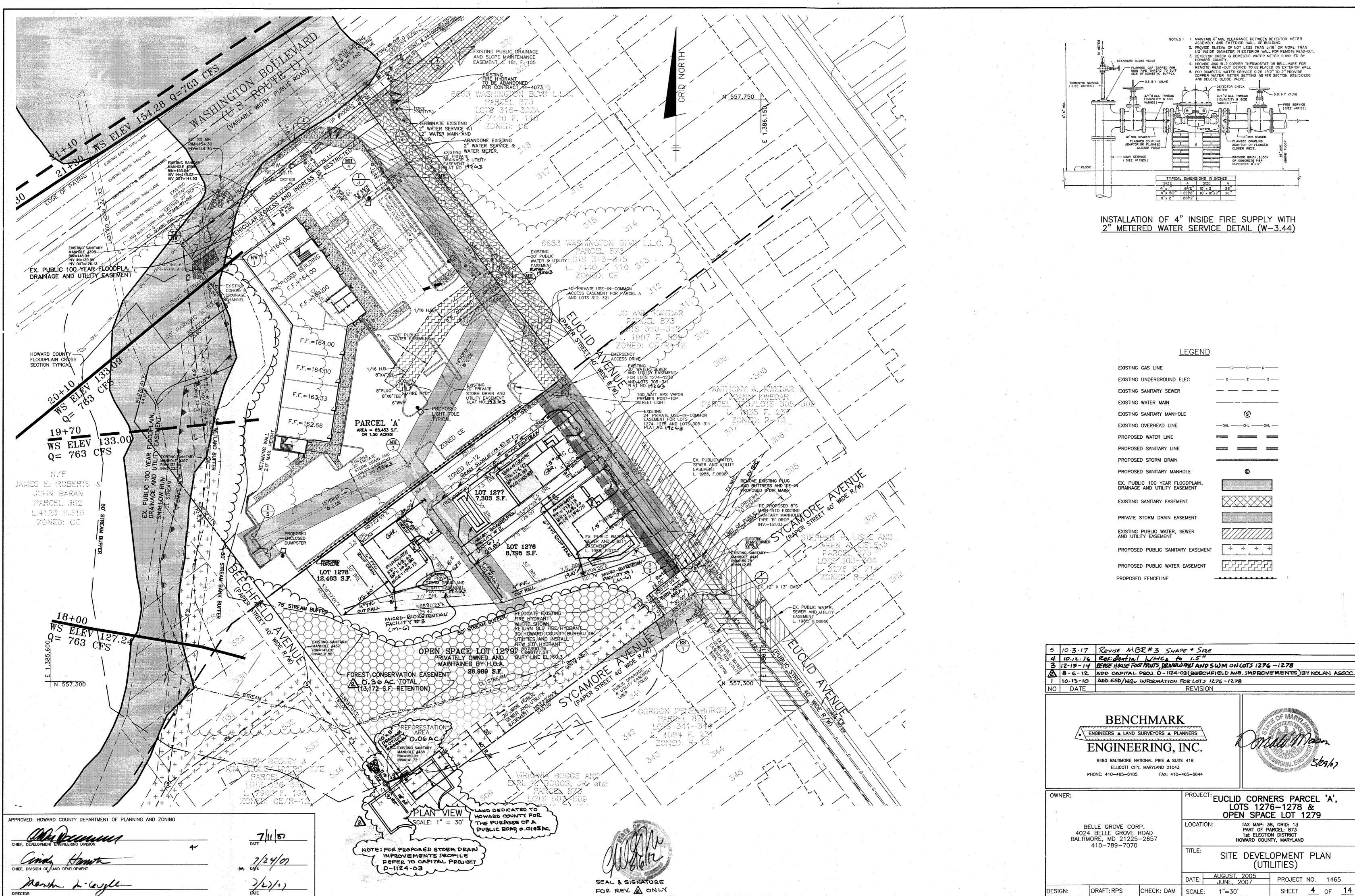
SUPPLY CO.

N 557,155.459

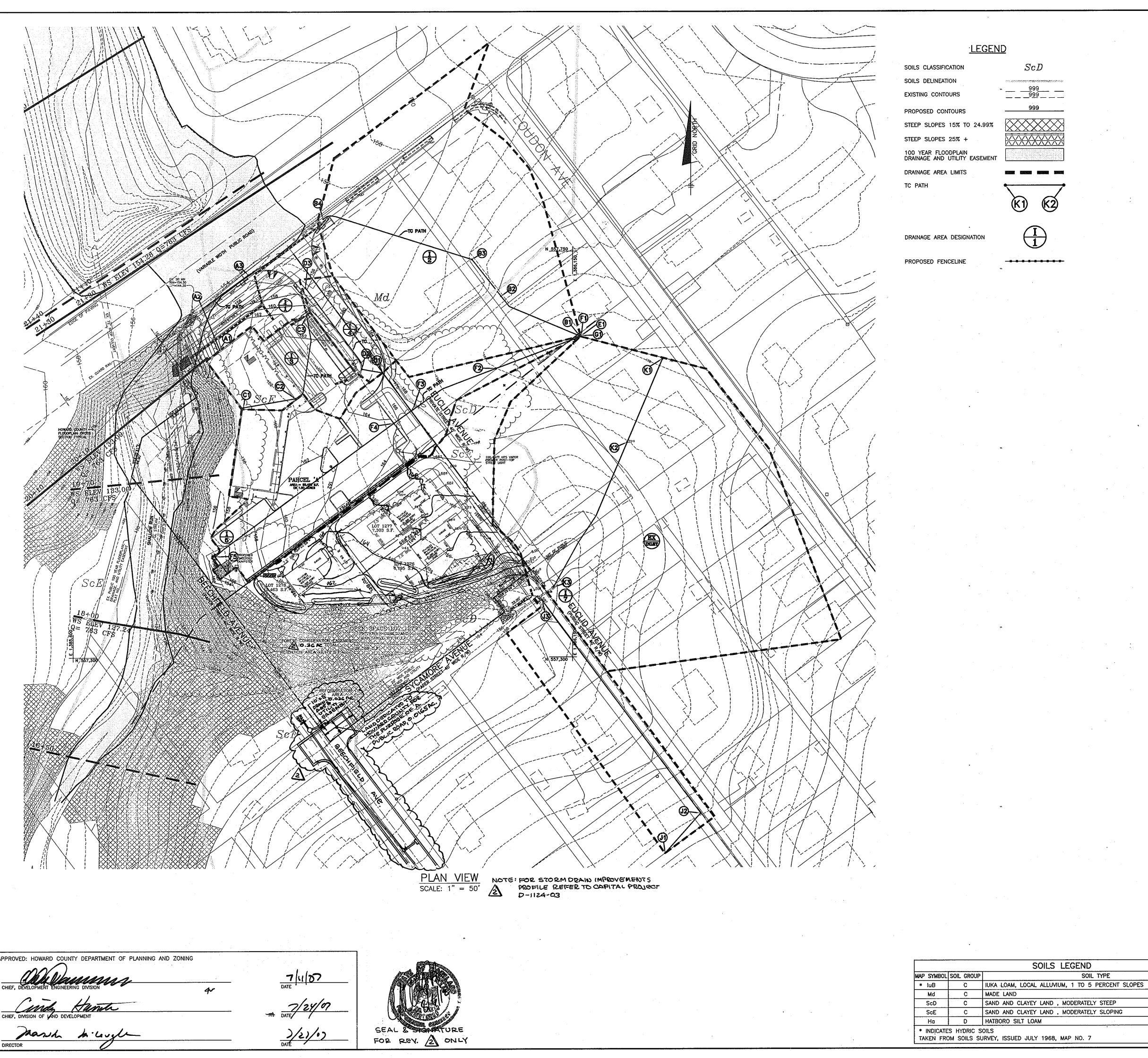
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SDP-06-22



STORM DRAIN RUNOFF

1.42 0.28 0.13 CE 1 - 30.48 2.21

TIME OF CONCENTRATION DRAINAGE AREA I-1:

A1 TO A2 = LAWN, SHEET FLOW, 49', SLOPE 14.0% A2 TO A3 = PAVED, CONCENTRATED FLOW, 63', SLOPE 1.0%

TIME OF CONCENTRATION DRAINAGE AREA 1-2;

B1 TO B2 = LAWN, SHEET FLOW, 100', SLOPE 5.5%
B2 TO B3 = UNPAVED, CONCENTRATED FLOW, 52', SLOPE 9.6%

B3 TO B4 = PAVED, CONCENTRATED FLOW, 172', SLOPE 6.3%

TIME OF CONCENTRATION DRAINAGE AREA 1-3:

C1 TO C2 = ROOF, SHEET FLOW, 58', SLOPE 0.5% C2 TO C3 = PAVED CONCENTRATED FLOW, 97', SLOPE 5.0%

TIME OF CONCENTRATION DRAINAGE AREA 1-4:

D1 TO D2 = PAVED, SHEET FLOW, 24', SLOPE 3.0% D2 TO D3 = PAVED, CONCENTRATED FLOW, 110', SLOPE 8.0%

TIME OF CONCENTRATION DRAINAGE AREA 1-5:

F1 TO F2 = LAWN, SHEET FLOW, 100', SLOPE 2.6% F2 TO F3 = UNPAVED, CONCENTRATED FLOW, 103', SLOPE 5.7% F3 TO F4 = UNPAVED CONCENTRATED FLOW, 26', SLOPE 15.0% F4 TO F5 = PAVED CONCENTRATED FLOW, 241', SLOPE 3.6%

TIME OF CONCENTRATION DRAINAGE AREA 1-7:

J1 TO J2 = LAWN, SHEET FLOW, 60', SLOPE 2.0% J2 TO J3 = PAVED CONCENTRATED FLOW, 298', SLOPE 6.7%

TIME OF CONCENTRATION DRAINAGE AREA EX. INLET:

K1 TO K2 = LAWN, SHEET FLOW, 100', SLOPE 8.0% K2 TO K3 = UNPAVED, CONCENTRATED FLOW, 144, SLOPE 6.4%

2 8-6-12 APD CAPITAL PROJ. D-1124-03 (BEECHFIELD AVE. IMPROVEMENTS) BY NOVAN ASSOC. 1 10-13-10 ADD ESD/WQV INFORMATION FOR LOTS 1276-1278 REVISION

BENCHMARK ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644

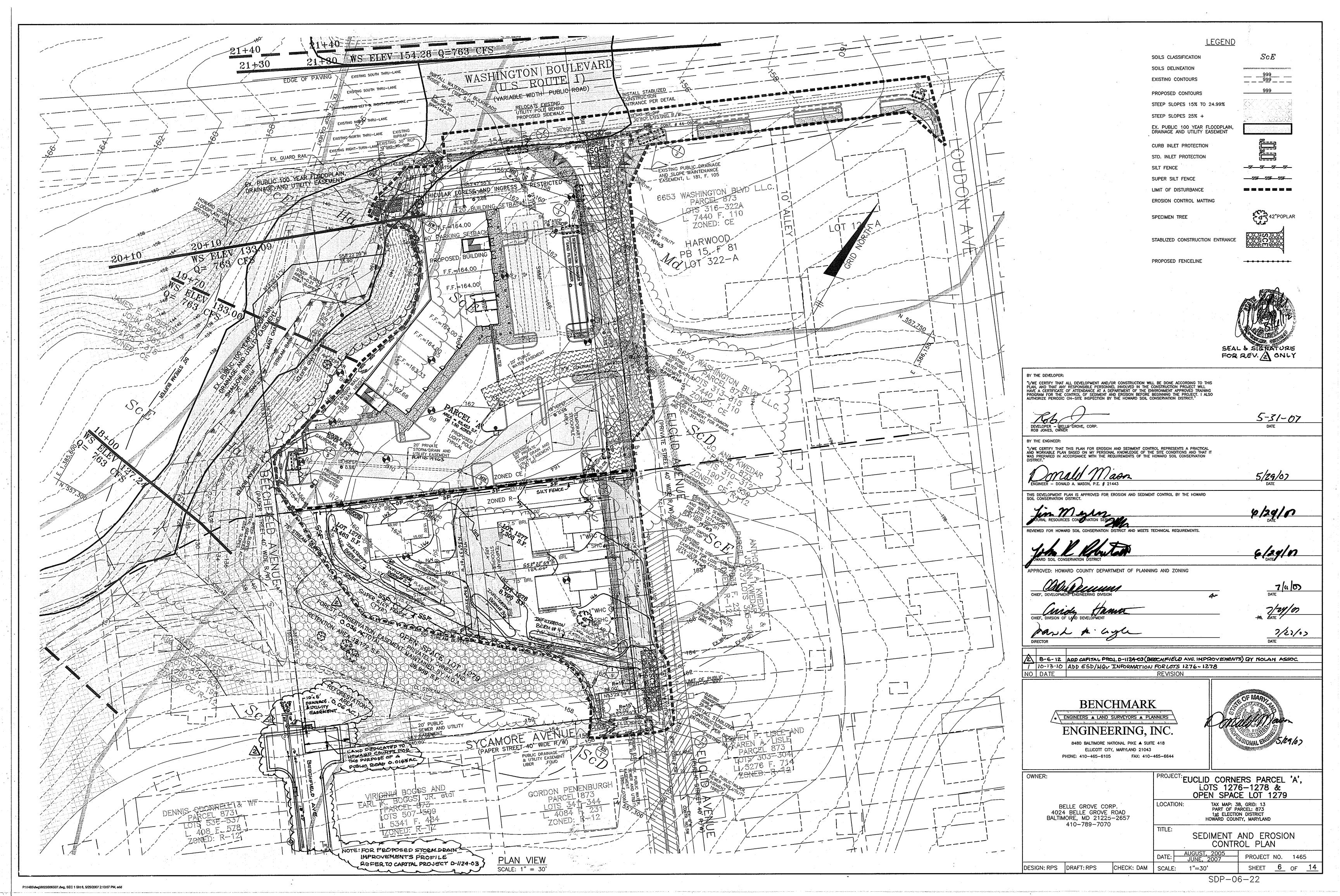


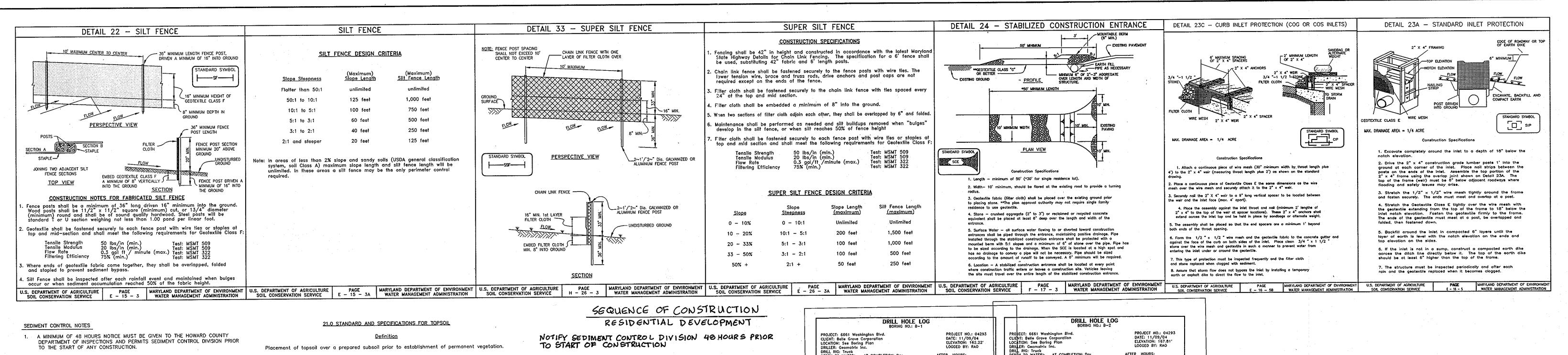
PROJECT: EUCLID CORNERS PARCEL 'A', LOTS 1276-1278 & OPEN SPACE LOT 1279 BELLE GROVE CORP. 4024 BELLE GROVE ROAD BALTIMORE, MD 21225-2657 LOCATION: 410-789-7070

DRAFT: RPS

TAX MAP: 38, GRID: 13
PART OF PARCEL: 873
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND STORM DRAIN, DRAINAGE AREA MAP

PROJECT NO. 1465 CHECK: DAM | SCALE: AS SHOWN SHEET <u>5</u> OF <u>14</u>





- 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 1994 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
- 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 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). TEMPÒRARY 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.
- RES. ICOMM, TOTAL 7. SITE ANALYSIS: ACRES TOTAL AREA OF SITE 0.81/0.95 ACRES TOTAL AREA DISTURBED AREA TO BE ROOFED OR PAVED ACRES 0.20/0.84 AREA TO BE VEGETATIVELY STABILIZED 0.61/0.11 ACRES 2787/3277 927/1088 TOTAL CUI TOTAL FILL
- OFFSITE HAUL 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 CONTROLS 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

APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE

OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION

- 11. TRENCHES FOR THE CONSTRUCTION OF UTILITIES ARE LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE
- * IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AN OFF-SITE FILL AREA WITH AN APPROVED SEDIMENT & EROSION CONTROL PLAN.

TEMPORARY SEEDBED PREPARATION

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

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

INSPECTION AGENCY IS MADE.

WORKING DAY, WHICHEVER IS SHORTER.

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 GALLONS 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 PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY

- 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 (9 LBS/1000 SQ 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

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 THE 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) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL

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 SEEDED AREAS AND MAKE NEEDED REPAIRS,

Purpose

To provide a suitable 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. II. 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 stangards as set forth in these specifications. Typically, the depth of topsail 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 g 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 ½
- 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 as described in the

III. For sites having disturbed areas under 5 acres:

following procedures.

- i. 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:
- 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 of 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 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. 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 amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

- i. When topsoiling, maintain needed erosion and sediment control practices such as diversion, 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 preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation
- 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. G-21-2
- 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: i. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribed 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 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.

OBTAIN GRADING PERMIT

CLEAR & GRUB RESIDENTIAL AREA CLOTS 1276-1278); INSTALL SEDIMENT CONTROLS AS SHOWN ON THIS SDP

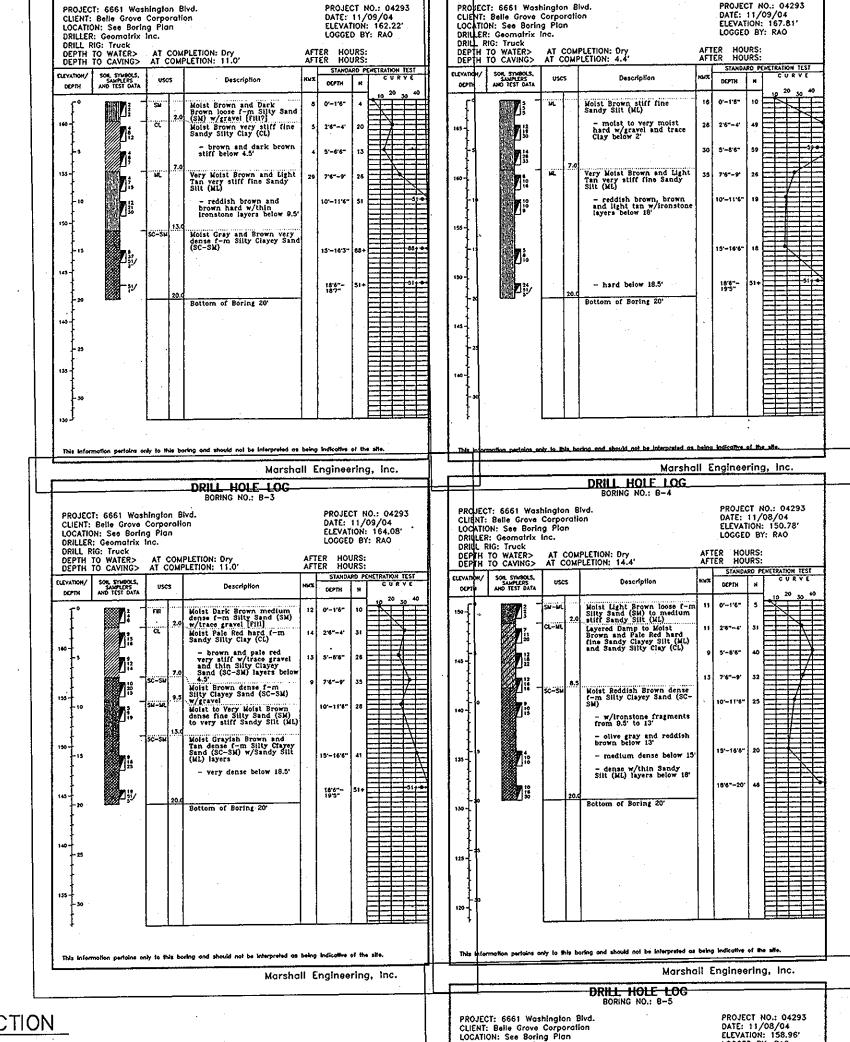
DAY 9-20 UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR BEGIN GRADING OF SITE; UPON COMPLETION IMMEDIATELY STABILIZE DISTURBED AREAS IN ACCORDANCE WITH TEMPORARY SEED BED NOTES.

*DAY 21-100 EXCAVATE FOR FOUNDATION, CONSTRUCT HOUSE, BACK FILL, CONSTRUCT DRIVEWAY, ESD; FINAL GRADE AND STABILIZE IN ACCORDANCE WITH PERMANENT SEED BED NOTES.

DAY 101-105 UPON APPROVAL OF THE HOWARD COUNTY SED MENT CONTROL INSPECTOR REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE ANY REMAINING DISTURBED AREAS.

NOTE; 1) SEDIMENT CONTROL LOCATION AND IMPLEMENTATION SHOWN ON THESE PLANS IS SUBSECT TO REVISION INTHE FEILD AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.

*- INDICATES SINGLE HOUSE CONSTRUCTION



SEQUENCE OF CONSTRUCTION RETAIL DEVELOPMENT

NOTIFY SEDIMENT CONTROL DIVISION 48 HOURS PRIOR TO START OF CONSTRUCTION

OBTAIN GRADING PERMIT.

INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCES, AND SUPER SILT FENCES. INSTALL I-7 TO ES-1 DAY 8-10 INSTALL SAND FILTER AND UNDERGROUND SWMF AND SITE STORM DRAIN SYSTEM, PLACE DAY 11-40 INLET PROTECTION AROUND INSTALLED INLETS. PROVIDE WATERTIGHT BULKHEADS AT MH4 FROM RECEIVING/SENDING FLOW TO HW1 UNTIL EXISTING SITE IS PERMANENTLY STABLE, AND AND PERMISSION GRANTED FROM INSPECTOR

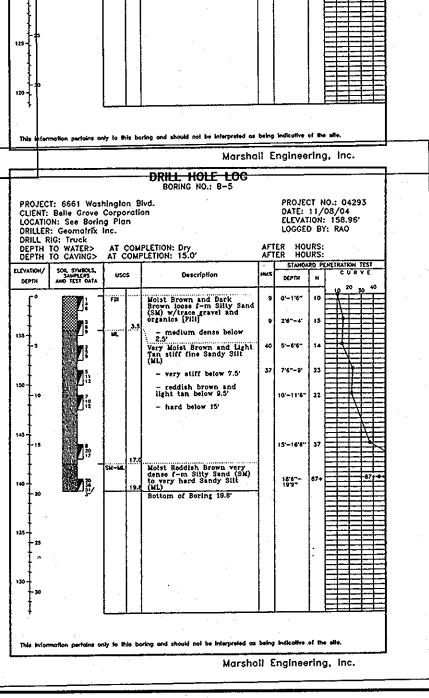
UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, BRING DRIVEWAY AND PARKING AREA TO SUBGRADE AND STABILIZE SLOPES IN ACCORDANCE WITH TEMPORARY

UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, INSTALL WATER, SEWER AND UTILITY LINES.

UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, CONSTRUCT BUILDING, AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES. DAY 145-160 UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, INSTALL CURB AND GUTTER, PAVING, AND CONCRETE SIDEWALK.

DAY 161-165 COMPLETE GRADING OF SITE AND STABLIZE DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES.

DAY 166-170 UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE REMAINING SEDIMENT CONTROL DEVICES, AND STABILIZED DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDBED NOTES. REMOVE BULKHEADS AT MH4 AND REMOVE ANY AND ALL JUNK, TRASH AND DEBRIS FROM THE STREAMS, WETLANDS, FLOODPLAINS, BUFFERS AND FOREST CONSERVATION AREAS.



BY THE DEVELOPER: "I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO 5-31-07 BY THE ENGINEER "I/WE 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 THE HOWARD SOIL CONSERVATION THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING 1 10-13-10 ADD ESD/WQV INFORMATION TO LOTS 1276-1278 NO DATE

BENCHMARK ENGINEERS & LAND SURVEYORS A PLANNERS ENGINEERING, INC.

DESIGN: RPS | DRAFT: RPS |

8480 BALTIMORE NATIONAL PIKE A SUITE 418 ELLICOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 FAX: 410-465-6644

CHECK: DAM



PROJECT: EUCLID CORNERS PARCEL 'A' OWNER: LOTS 1276-1278 & OPEN SPACE LOT 1279 LOCATION: TAX MAP: 38, GRID: 13 BELLE GROVE CORP. PART OF PARCEL: 873 4024 BELLE GROVE ROAD 1st ELECTION DISTRICT BALTIMORE, MD 21225-2657 HOWARD COUNTY, MARYLAND 410-789-7070 SEDIMENT AND EROSION CONTROL NOTES AND DETAIL PROJECT NO. 1465

SCALE:

1"=30'

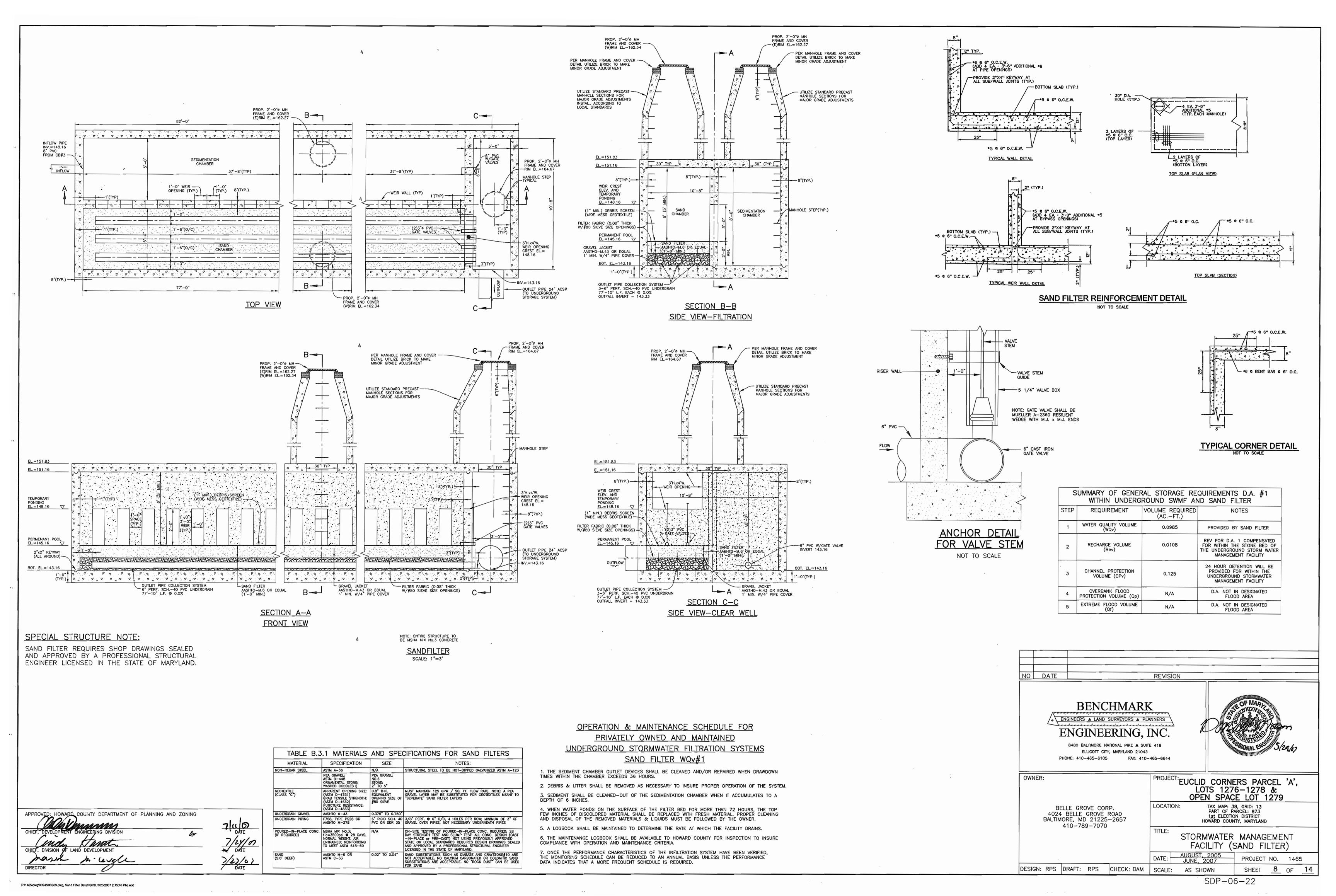
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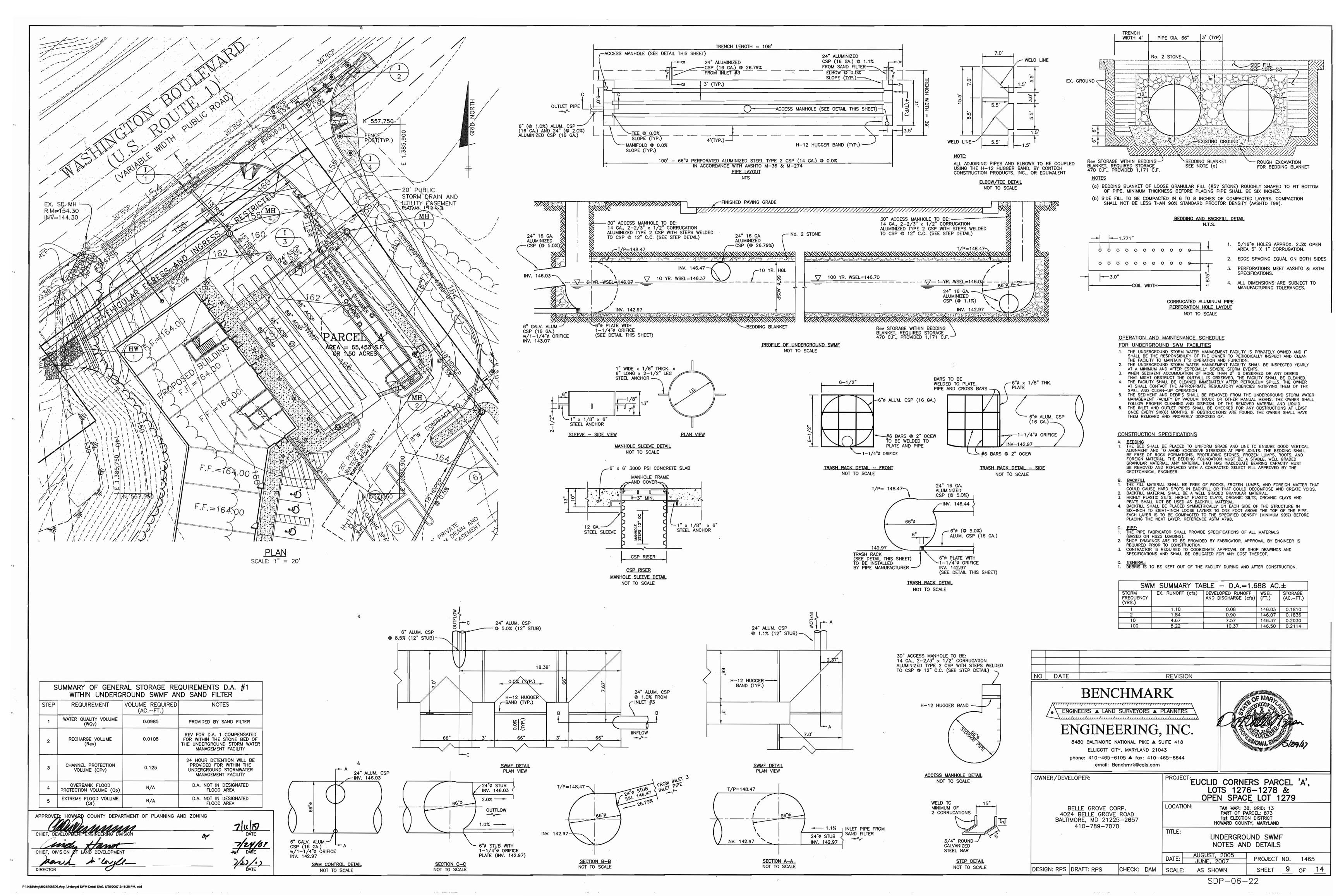
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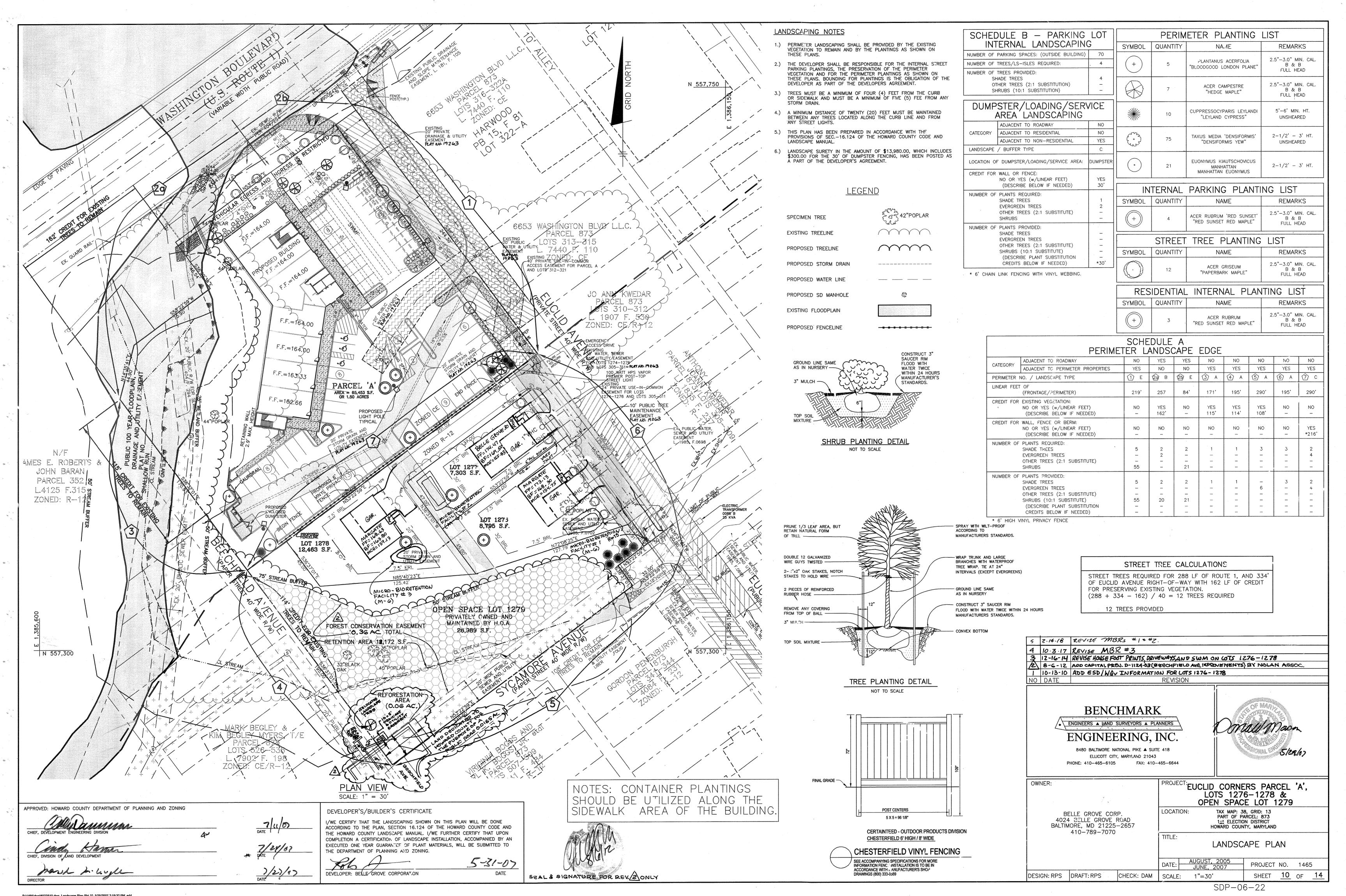
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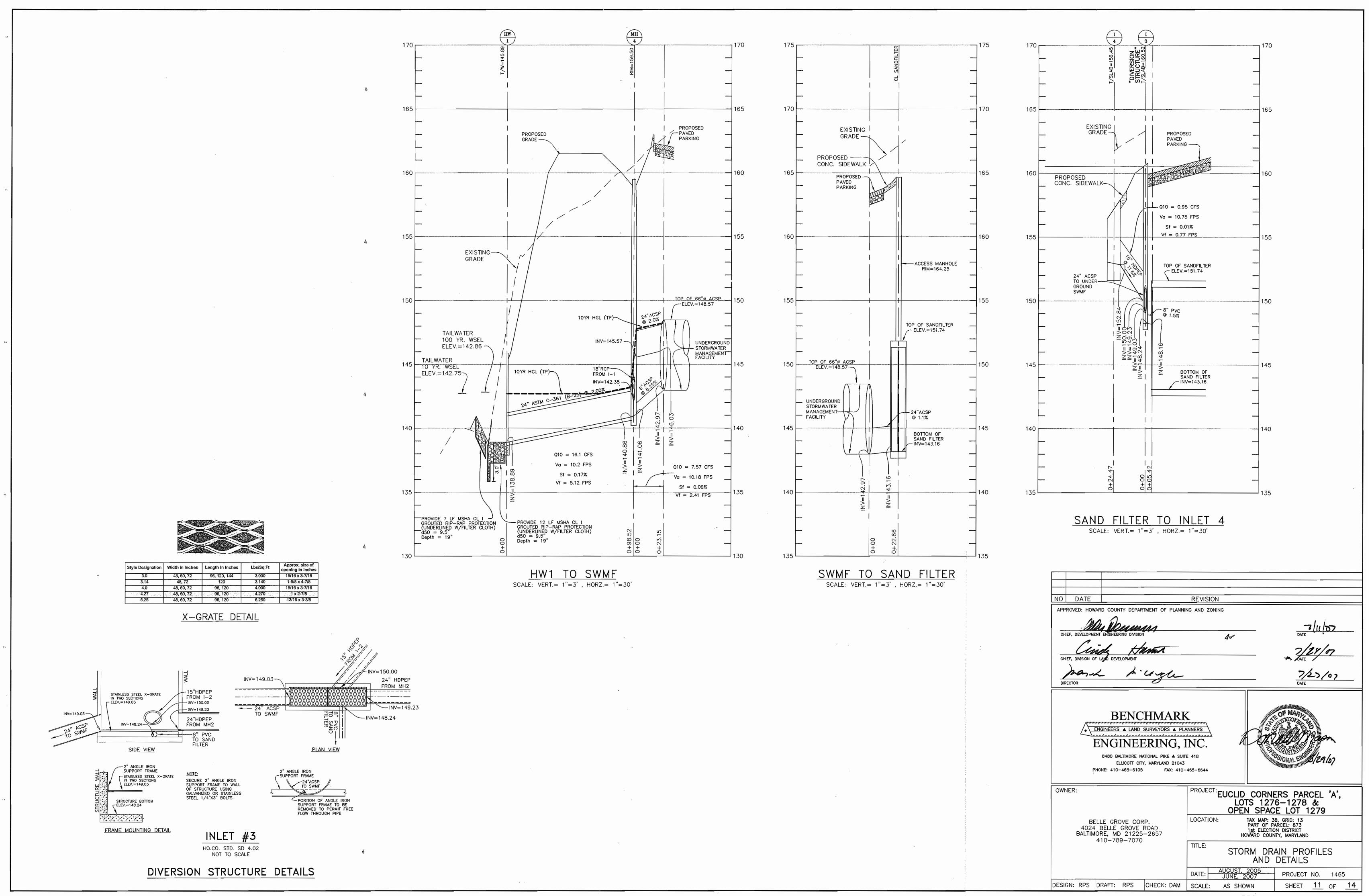
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REPLACEMENTS AND RESEEDINGS.

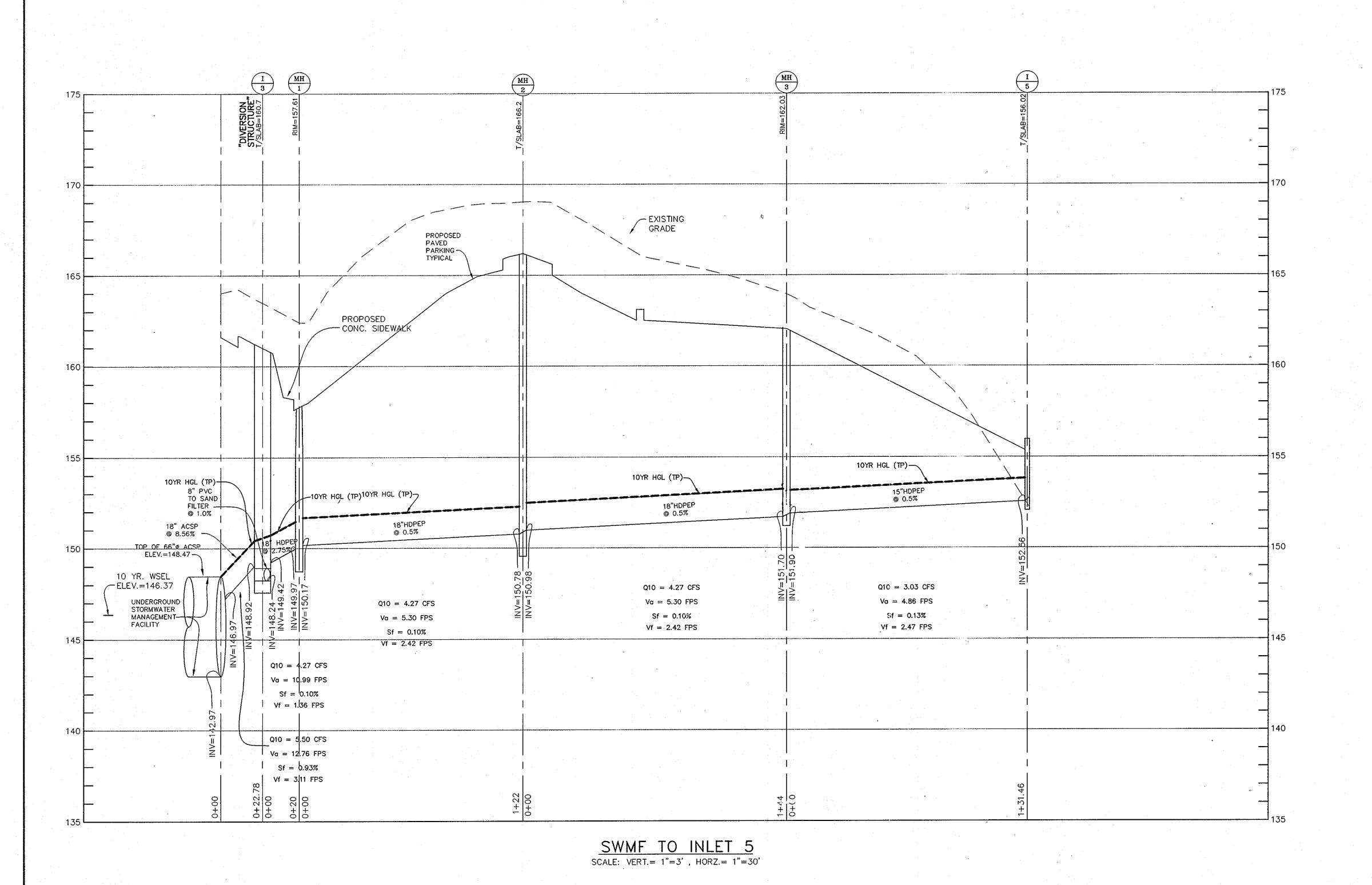








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STRUCTURE SCHEDULE STORM INLETS INV. OUT TOP ELEV. HO. CO. STD. LOCATION INV. IN COS-15 N 557717.7801, E 1385785.1075 143.26 143.06 154.71 SHA, MD 374.61 1-2 N 557780.0468, E 1385872.8599 148.36 155.44 SHA, MD 374.61 COG-20 1–3 A-10 N 557678.8461 E 1385857.1304 149.42 150.00/149.23 160.52 SD-4.02 152.84 SD-4.02 1-4 A-10 CL STA. 0+44.50 O/S 12.50' RIGHT (ENTRANCE DRIVE) 156.45 N 557408.8232 E 1385759.4016 152.56 156.02 SD-4.02 A-10

STORM MANHOLES

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	HO. CO. STD.
M-1	4'-0" MANHOLE	CL STA. 0+73.86 O/S 10.00' LEFT (ENTRANCE DRIVE)	150.17	149.97	157.61	G - 5.12
M-2	4'-0" MANHOLE	N 557594.1542 E 1385944.2486	150.98	150.78	166.2	G - 5.12
M-3	4'-0" MANHOLE	N 557467.1144 E 1385876.6875	151.90	151.70	162.03	G - 5.12
M-4	4'-0" MANHOLE	N 557690.8026 E 1385808.5712	142.74/141.06	140.86	159.50	G - 5.12
		HFADWALLS				

		TILAUWALLS				·		
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	HO. CO. STD.		
HW1	TYPE 'C' HEADWALL	N 55/632.1175 E 1385729.4634	-	138.89	145.89	MD 354.01 (NOTE 8)		
END SECTIONS								
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV.	HO. CO. STD.		

1) STRUCTURE ELEVATION AND LOCATION FOR MANHOLES IS AT THE TOP AND CENTER OF RIM.

PVC = POLYVINYL CHLORIDE PIPE

- STRUCTURE ELEVATION AND LOCATION FOR CURB INLETS IS AT THE TOP OF CURB AT MIDPOINT OF THE INLET AT THE FACE.

 STRUCTURE ELEVATION AND LOCATION FOR TYPE "D" AND "WR" INLETS IS AT THE TOP OF SLAB/GRATE AT CENTER OF THE INLET.

- PRECAST STRUCTURES MEETING HS-20 LOADING MAY BE USED.

 ALL STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE (CLASS IV) UNLESS OTHERWISE NOTED.

 STRUCTURE ELEVATION AND LOCATION FOR HEADWALL IS AT THE TOP CENTER AT DOWN STREAM FACE OF WALL.

 STRUCTURE ELEVATION AND LOCATION FOR END SECTION IS AT THE INVERT WHERE PIPE JOINS END SECTION

 HEADWALL TO BE CONSTRUCTED UTILIZING THE 72" PIPE SIZE DIMENSIONS.

TYPE & CLASS	SIZE	LENGTH
RCP CLASS IV	24"	35'
RCP CLASS IV	15"	95'
ACSP	24"	46'
ACSP	18"	23'
ACSP	6"	23'
HDPEP	18"	286'
HDPEP	15"	165'
RCP ASTM C-361	24"	99'

1 10-13-10 ADD ESD/WQ INFORMATION FOR LOTS 1276-1278
NO DATE REVISION APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

7/23/07 DATE

BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE A SUITE 418



PROJECT: EUCLID CORNERS PARCEL 'A', LOTS 1274-1276 & OPEN SPACE LOT 1277 OWNER: TAX MAP: 38, GRID: 13
PART OF PARCEL: 873
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND BELLE GROVE CORP. 4024 BELLE GROVE ROAD BALTIMORE, MD 21225-2657 LOCATION: 410-789-7070 STORM DRAIN PROFILES AND DETAILS PROJECT NO. 1465 DESIGN: RPS DRAFT: RPS CHECK: DAM SCALE: AS SHOWN

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SDP-06-22

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