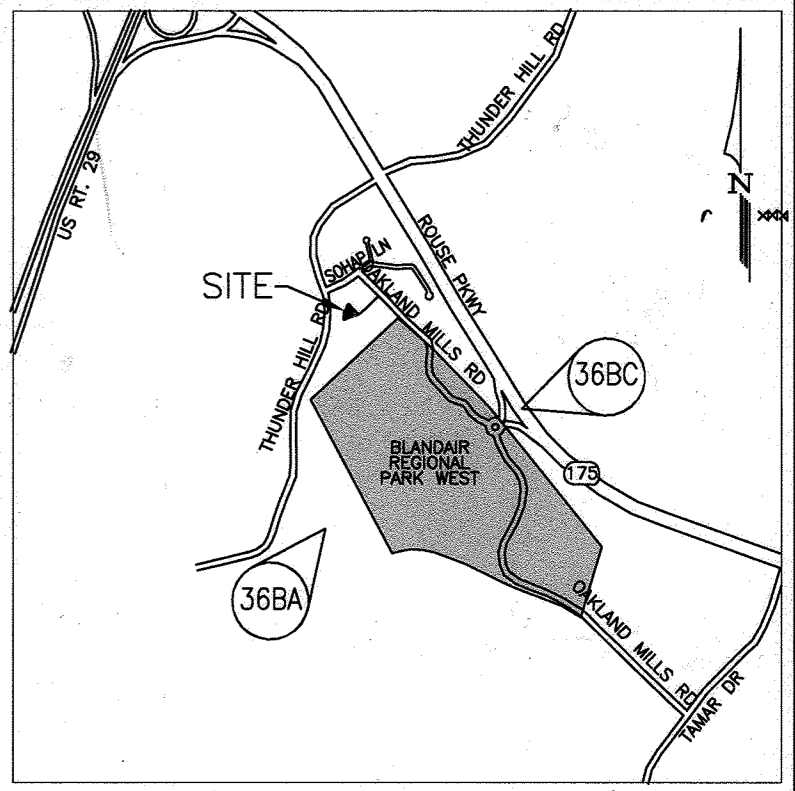


GENERAL NOTES

- 1. THE SUBJECT PROPERTY IS ZONED R-12 PER OCTOBER 2013 COMPREHENSIVE ZONING PLAN.
2. DEED REFERENCE: 2010/5/31
3. GROSS AREA OF PLOT: 14,171 SQ. FT.
4. AREA OF STEEP SLOPES: 0.0 AC.
5. AREA OF PROPOSED PUBLIC ROADS: 0.0 AC.
6. BUILDABLE LOTS: 0.3263 AC.
7. NON-BUILDABLE PRESERVATION PARCELS: 0.00 AC.
8. AREA OF PROPOSED PUBLIC ROADS: 0.0 AC.
9. THIS PROPERTY IS WITHIN THE METROPOLITAN DISTRICT.
10. THIS PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.
11. THE EXISTING TOPOGRAPHY IS SHOWN PER FIELD RUN TOPOGRAPHY PERFORMED BY DDC, INC. IN JULY 2021 AND SUPPLEMENTED WITH SURROUNDING HOWARD COUNTY SITES.
12. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE COORDINATE SYSTEM, HOWARD COUNTY MONUMENT NO'S 368A & 368C WERE USED FOR THIS PROJECT.
13. WATER IS PUBLIC CONTRACT #24-4662-D.
14. SEWER IS PUBLIC CONTRACT #24-4662-D.
15. STORMWATER MANAGEMENT FOR THIS LOT WILL BE PROVIDED BY DRYWELLS AND UNDERGROUND STORAGE. THESE ESD FEATURES WILL BEAT ALL IMPERVIOUS AREAS. THE 10-YEAR STORM IS BEING MANAGED TO REDUCE THE EXISTING DRAINAGE ISSUES IN SURROUNDING AREAS. THE ESD PRACTICES SATISFY THE ESDV REQUIREMENTS AND, THEREFORE, NO ADDITIONAL STRUCTURAL SMM PRACTICES WILL BE REQUIRED.
16. EXISTING UTILITIES SHOWN HEREON ARE BASED ON RECORD DRAWINGS. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THESE UTILITIES IN THE FIELD AT THE TIME OF CONSTRUCTION.
17. THERE ARE NO METLANDS ON THE SITE.
18. NO NOISE STUDY IS REQUIRED FOR THIS PROJECT.
19. LANDSCAPING SURETY HAS BEEN PROVIDED UNDER F-08-121.
20. THE FOREST CONSERVATION OBLIGATION FOR THIS DEVELOPMENT WAS MET BY A PREVIOUS PAYMENT OF A FEE OF \$6,535.00 UNDER F-08-121.
21. BR1 DENOTES THE BUILDING RESTRICTION LINE.
22. SEDIMENT AND EROSION CONTROL MEASURES WILL BE PROVIDED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
23. IN ACCORDANCE WITH SECTION 129.0 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 SETBACK.
24. 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' (6' SERVING MORE THAN ONE RESIDENCE)
- SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH TAR & CHIP COATING (1-1 1/2" MIN GEOMETRY - MAX 1% GRADE CHANGE AND MIN 48" TURNING RADIUS)
- STRUCTURE (SULVERTS / BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING)
- DRAINAGE ELEMENTS SAFELY PASSING 100-YR FLOOD WITH NO MORE THAN 1" DEPTH OVER DRIVEWAY SURFACE
- MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE
25. THERE ARE SIX (6) NEW TREES PROPOSED ON THIS PLAN, TWO (2) 3" CALIPER SWEET GUMS AND FOUR (4) 2-1/2" SHADE TREES WHICH CAN BE REMOVED ONCE PLANTED.
26. FLAG AND PIPESTEM LOTS, FLAG COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
27. NP-04-150, NP-10-046, NP-11-075 AND NP-12-095 WERE APPROVED TO EXTEND TIME TO COMPLETE DEVELOPERS AGREEMENT AND SUBMIT FINAL ORIGINALS FOR SIGNATURE.
28. ON OCTOBER 27, 2016, DESIGN MANUAL WAIVER TO VOLUME III, SECTION 2.6.A WAS APPROVED BY THE CHIEF, DEVELOPMENT ENGINEERING DIVISION, TO ALLOW A 4TH LOT TO USE THE COMMON DRIVEWAY.
29. ON JUNE 10, 2014, THE PLANNING DIRECTOR APPROVED NP-14-133 WHICH GRANTED A WAIVER OF SECTION 16.144(f)(6) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, WHICH REQUIRED SUBMISSION OF THE FINAL PLAT ORIGINAL WITHIN 180 DAYS OF THE FINAL PLAN APPROVAL SUBJECT TO THE FOLLOWING CONDITIONS: (1) APPLICANT MUST HOLD A PRE-SUBMISSION COMMUNITY MEETING PRIOR TO THE SUBMISSION OF THE REVISED FINAL PLANS. (2) APPLICANT MUST SUBMIT A REVISED PLAN FOR REVIEW BY THE SRC AGENCIES WITHIN 6 MONTHS OF THE WAIVER APPROVAL. (3) SIGNED WATER AND SEWER ROAD CONSTRUCTION DRAWINGS MUST BE REVISED REFLECTING ANY CHANGES PROPOSED ON THE FINAL PLAT WITHIN 6 MONTHS OF WAIVER APPROVAL. (4) 1/2 OF THE INITIAL PROCESSING FEE MUST BE PAID AT THE TIME OF SUBMISSION OF THE REVISED FINAL PLAN. (5) PLAN MUST COMPLY WITH ANY FEE CHANGES PER THE COUNTY FEE SCHEDULE. (6) NO NEW LOTS MAY BE CREATED WITH THE RE-ACTIVATION OF F-08-121. (7) FINAL PLAN MUST COMPLY WITH ALL CURRENT COUNTY AND STATE REGULATIONS. (8) ANY REMOVAL OF SPECIFIC TREES WILL REQUIRE THE SUBMISSION AND APPROVAL OF A WAIVER PETITION. (9) AFTER REVIEW AND APPROVAL OF THE FINAL PLAN IS COMPLETE, THE SUBMISSION OF THE REVISED FINAL PLAN MUST BE MADE TO THE PLANNING DIVISION AND THE OPEN/CLOSED SCHOOLS TEST IN ACCORDANCE WITH THE ADEQUATE PUBLIC FACILITIES ORDINANCE.
30. ON MARCH 25, 2008, THE CHIEF DEVELOPMENT ENGINEERING DIVISION APPROVED A DESIGN MANUAL WAIVER OF VOL III, SEC 2.5.B.9 TO ALLOW USE OF INTERSECTION SIGHT DISTANCE REQUIREMENTS INSTEAD OF STOPPING DISTANCE REQUIREMENTS FOR AVAILABILITY OF HOUSING UNIT ALLOCATIONS.
31. ON AUGUST 29, 2008, THE DEVELOPMENT ENGINEERING DIVISION APPROVED DESIGN MANUAL WAIVERS OF VOL III, SECTION 2.5.B.9, VOL III, SECTION 2.4.D, AND VOLUME IV, DETAIL R-1.03.
32. ON AUGUST 3, 2017, THE DEPARTMENT OF PLANNING AND ZONING APPROVED F-17-105 WHICH SUBDIVIDED LOT 6, MILL HAVEN INTO LOTS 6 & 9, MILL HAVEN, CREATING ONE NEW BUILDABLE LOT. PROCESSING OF THE F-17-105 WAS HALTED AT THAT POINT DUE TO THE SUBDIVISION BEING IN A CLOSED SCHOOL DISTRICT AND A PUBLIC SCHOOL DISTRICT. F-18-050 WAS CONSIDERED AS PLATS 24636-7, CREATING NO NEW BUILDABLE LOTS. THE INTENTION WAS TO RE-RECORD NON-BUILDABLE PARCEL A AND WAS RECORDED AS PLATS 24636-7. CREATING NO NEW NON-BUILDABLE PARCEL A PASSES APPO TEST, BOTH OF WHICH HAVE NOW OCCURRED.
33. ACCESS TO EXISTING PROPERTIES IS TO BE MAINTAINED AT ALL TIMES ESPECIALLY WATER AND SEWER TIE IN FOR LOT 9.
34. THE DRIVEWAY IS REQUIRED TO BE REPAIRED IF ANY DAMAGE OCCURS DURING WATER AND SEWER TIE IN CONNECTIONS.
35. PREVIOUS COUNTY FILE NUMBERS: F-86-25, F-90-133, F-08-121, NP-04-150, NP-10-046, NP-11-075, NP-12-095, NP-14-133, SDP-94-74, CONTRACT 24-4662-2, SDP-15-079, ECP-17-039, NP-15-051, NP-16-140, NP-17-065, F-18-050.

SITE DEVELOPMENT PLAN for MILL HAVEN LOT 9

TAX MAP 36, GRID 4, PARCEL 2 6th ELECTION DISTRICT HOWARD COUNTY, MD



BENCHMARK table with columns for BENCHMARK, N, ELEV.N, B.M., STAMPED DISC, ELEV., and ADC MAP MAP/GRID No.

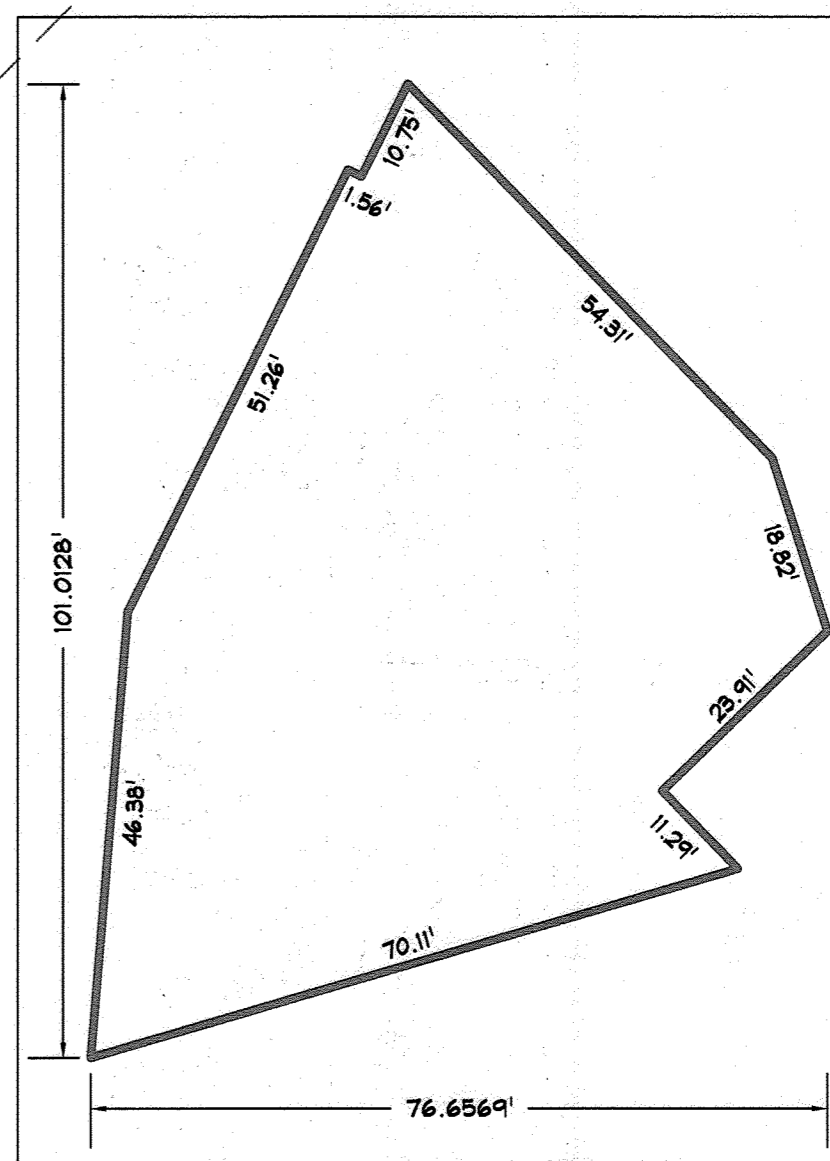
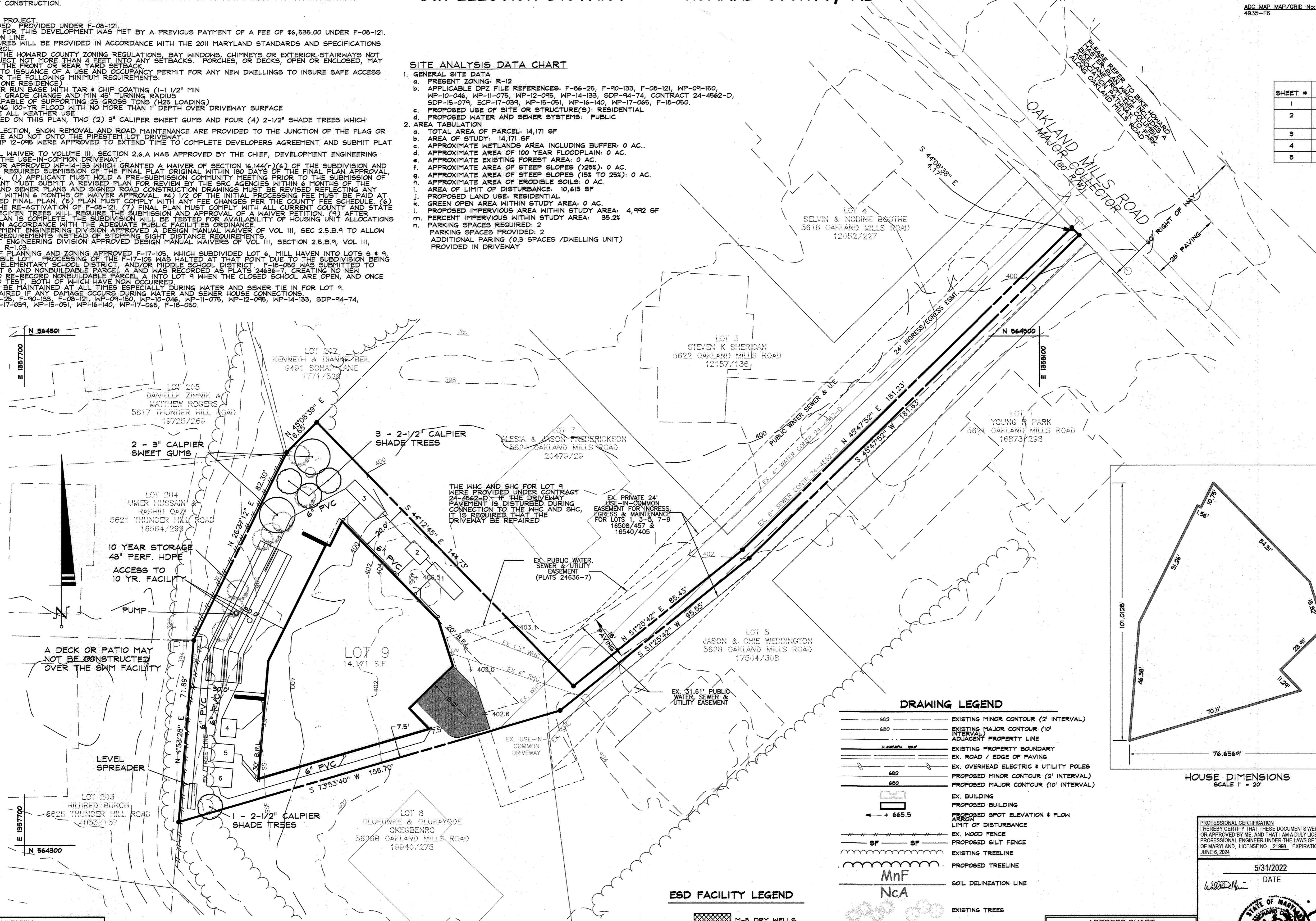
SITE ANALYSIS DATA CHART

- 1. GENERAL SITE DATA
a. PRESENT ZONING: R-12
b. APPLICABLE DPZ FILE REFERENCES: F-86-25, F-90-133, F-08-121, NP-04-150, NP-10-046, NP-11-075, NP-12-095, NP-14-133, SDP-94-74, CONTRACT 24-4662-2, SDP-15-079, ECP-17-039, NP-15-051, NP-16-140, NP-17-065, F-18-050.
c. PROPOSED USE OF SITE OR STRUCTURE(S): RESIDENTIAL
d. PROPOSED WATER AND SEWER SYSTEMS: PUBLIC
2. AREA TABULATION
a. TOTAL AREA OF PARCEL: 14,171 SF
b. AREA OF STUDY: 14,171 SF
c. APPROXIMATE NETLANDS AREA INCLUDING BUFFER: 0 AC.
d. APPROXIMATE AREA OF 100 YEAR FLOODPLAIN: 0 AC.
e. APPROXIMATE EXISTING FOREST AREA: 0 AC.
f. APPROXIMATE AREA OF STEEP SLOPES (25%): 0 AC.
g. APPROXIMATE AREA OF STEEP SLOPES (15% TO 25%): 0 AC.
h. APPROXIMATE AREA OF ERODIBLE SOILS: 0 AC.
i. AREA OF LIMIT OF DISTURBANCE: 10,619 SF
j. PROPOSED LAND USE: RESIDENTIAL
k. GREEN OPEN AREA WITHIN STUDY AREA: 0 AC.
l. PROPOSED IMPERVIOUS AREA WITHIN STUDY AREA: 4,992 SF
m. PERCENT IMPERVIOUS WITHIN STUDY AREA: 35.21
n. PARKING SPACES REQUIRED: 2
o. PARKING SPACES PROVIDED: 2
p. ADDITIONAL PAVING (0.3 SPACES /DWELLING UNIT) PROVIDED IN DRIVEWAY.

SHEET INDEX table with columns for SHEET # and SHEET INDEX.

MIHJ AGREEMENT PLEASE NOTE THAT ALL NEW LOTS/RESIDENTIAL UNITS IN THIS SUBDIVISION (LOT 9) ARE SUBJECT TO THE MIHJ FEE-IN-LIEU REQUIREMENTS THAT IS TO BE CALCULATED AND PAID TO DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS AT THE TIME OF BUILDING PERMIT ISSUANCE BY THE PERMIT APPLICANT.

DATA SOURCES: EXISTING BOUNDARY SHOWN PER BOUNDARY SURVEY BY EXACTA LAND SURVEYORS, LLC DATED 2/10/21. TOPOGRAPHY SHOWN PER FIELD RUN TOPOGRAPHY PERFORMED BY DDC, INC. IN AUGUST 2021 AND SUPPLEMENTED WITH HOWARD COUNTY GIS.



DRAWING LEGEND table listing symbols for contours, boundaries, easements, and structures.

ESD FACILITY LEGEND table listing symbols for dry wells and drywells.

PERMIT INFORMATION CHART table with columns for SUBDIVISION NAME, SECTION/AREA, LOT/PARCEL NO., PLAT # OR L/F, BLOCK#, ZONING, TAX MAP NO., ELECTION DISTRICT, CENSUS TRACT, WATER CODE, and SEWER CODE.

PROFESSIONAL CERTIFICATION section with a signature, date (5/31/2022), and professional seal for W. RICHARD DEMARIO, LICENSE NO. 21998.

APPROVED: DEPARTMENT OF PLANNING AND ZONING section with signature of Chad Edmondson, dated 6/23/2022.

DDC Development Design Consultants contact information, including address (192 East Main Street, Westminister, MD 21157) and phone numbers.

MILL HAVEN LOT 9 SITE DEVELOPMENT PLAN SITE LAYOUT PLAN section with owner (SHARON WALKIN CANNON), developer (SAME), and a table for REVISIONS.

**SCHEDULE A
PERIMETER LANDSCAPE EDGE
PER APPROVED F-17-105**

CATEGORY	ADJACENT TO PERIMETER PROPERTIES
LANDSCAPE TYPE	PERIMETER 'A' TYPE 'A'
NEAR FEET OF ROADWAY FRONTAGE/PERIMETER	154 L.F. TOTAL
CREDIT FOR EXISTING VEGETATION (DESCRIBE BELOW IF NEEDED)	95 L.F.
CREDIT FOR BERM (DESCRIBE BELOW IF NEEDED)	N/A
NUMBER OF PLANTS REQUIRED SHADE TREES	4 AS REQUIRED UNDER F-17-105
NUMBER OF PLANTS PROVIDED SHADE TREES	4 AS REQUIRED UNDER F-17-105
NUMBER OF PLANTS REQUIRED SWEET GUM	2 AS REQUIRED UNDER F-17-105
NUMBER OF PLANTS PROVIDED SWEET GUM	2 AS REQUIRED UNDER F-17-105

NOTES:
 *AT THE TIME OF PLANT INSTALLATION ALL TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENT IN ACCORDANCE WITH THE HOWARD COUNTY LANDSCAPE MANUAL. IN ADDITION NO SUBSTITUTIONS OR RELOCATIONS OF THE REQUIRED PLANTINGS MAY BE MADE WITHOUT PRIOR REVIEW AND APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING. ANY DEVIATIONS FROM THE APPROVED LANDSCAPE PLAN MAY RESULT IN DENIAL OR DELAY IN THE RELEASE OF LANDSCAPE SURETY UNTIL SUCH TIME AS ALL REQUIRED MATERIALS ARE PLANTED AND/OR REVISIONS ARE MADE TO THE SITE DEVELOPMENT PLAN.
 *THE OWNER, TENANTS AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED PERIMETER LANDSCAPING. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION AND, WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION AND, WHEN NECESSARY, REPAIRED OR REPLACED.

PLANTING SPECIFICATIONS

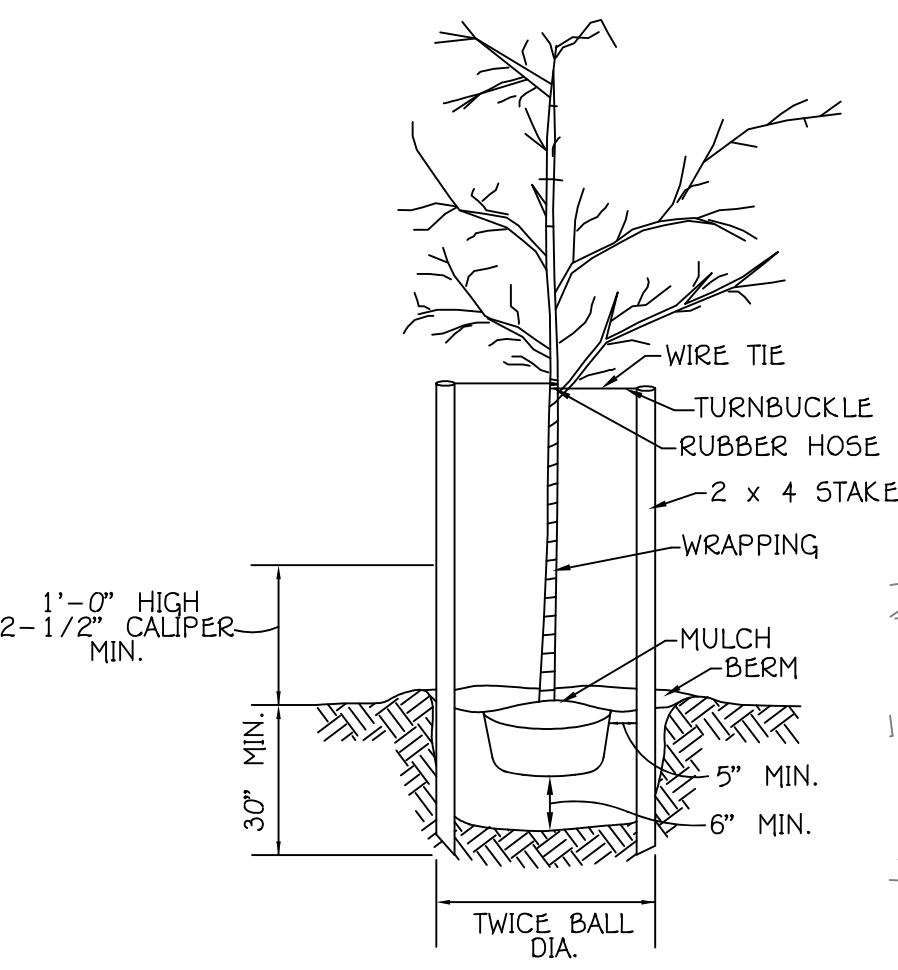
PLANTS, RELATED MATERIAL, AND OPERATIONS SHALL MEET THE DETAILED DESCRIPTION AS GIVEN ON THE PLANS AND DESCRIBED HEREIN.
 ALL PLANT MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE NURSERY GROWN, UNIFORMLY BRANCHED, HAVE A VIGOROUS ROOT SYSTEM, AND SHALL CONFORM TO THE SPECIES, SIZE, ROOT CONTAINMENT AND SHAPE SHOWN ON THE PLANT LIST AND THE AMERICAN NURSERY & LANDSCAPE (ANLA) STANDARDS. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, FREE FROM DEFECTS, DECAY, DISFIGURING ROOTS, SUN SCALD INJURIES, ABRASSION OF THE BARK, PLANT DISEASE, INSECT PEST EGGS, BORERS AND ALL FORMS OF INSECT INFESTATIONS OR OBJECTIONABLE DISFIGUREMENTS. PLANT MATERIAL THAT IS WEAK OR WHICH HAS BEEN CUT BACK FROM LARGER GRADES TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED. TREES WITH FORKED LEADERS WILL NOT BE ACCEPTED. ALL PLANTS SHALL BE FRESHLY DUG. NO HEELED-IN PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
 UNLESS OTHERWISE SPECIFIED, ALL GENERAL CONDITIONS, PLANTING OPERATIONS, DETAILS AND PLANTING SPECIFICATIONS SHALL CONFORM TO "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS," HEREINAFTER "LANDSCAPE GUIDELINES," APPROVED BY THE LANDSCAPE CONTRACTORS ASSOCIATION OF METROPOLITAN WASHINGTON AND THE POTOMAC CHAPTER OF THE AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS, LATEST EDITION, INCLUDING ALL ADDENDA.

CONTRACTOR SHALL BE REQUIRED TO GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THE LANDSCAPE GUIDELINES. CONTRACTOR'S ATTENTION IS DIRECTED TO THE MAINTENANCE REQUIREMENTS FOUND WITHIN THE ONE YEAR SPECIFICATIONS INCLUDING, WATERING AND REPLACEMENT OF SPECIFIED PLANT MATERIAL.
 BID SHALL BE BASE ON ACTUAL SITE CONDITIONS. NO EXTRA PAYMENT SHALL BE MADE FOR WORK ARISING FROM SITE CONDITIONS DIFFERING FROM THOSE INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
 ALL SHRUBS SHALL BE PLANTED IN CONTINUOUS TRENCHES OR PREPARED PLANTING BEDS AND MULCHED WITH COMPOSTED HARDWOOD MULCH AS DETAILED AND SPECIFIED, EXCEPT WHERE NOTED ON PLANS.
 POSITIVE DRAINAGE SHALL BE MAINTAINED IN PLANTING BEDS (2 PERCENT SLOPE).
 PLANTING MIX SHALL BE AS FOLLOWS: DECIDUOUS PLANTS - TWO PARTS TOPSOIL, ONE PART WELL-ROTTED COMPOST, HORSE MANURE, 3 LBS. OF STANDARD FERTILIZER PER CUBIC YARD OF PLANTING MIX AND EVERGREEN PLANTS - TWO PARTS TOPSOIL, ONE PART HUMUS OR OTHER APPROVED ORGANIC MATERIAL. ADD 3 LBS. OF EVERGREEN (ACIDIC) FERTILIZER PER CUBIC YARD OF PLANTING MIX. TOPSOIL SHALL CONFORM TO THE LANDSCAPE GUIDELINES.
 WEED CONTROL: INCORPORATE A PRE-EMERGENT HERBICIDE INTO THE PLANTING BED FOLLOWING RECOMMENDED RATES ON THE LABEL. CAUTION: BE SURE TO CAREFULLY CHECK THE CHEMICAL BEING USED TO ASSURE ITS ADAPTABILITY TO THE SPECIFIC GROUND COVER TO BE TREATED.
 ALL AREAS WITHIN CONTRACT LIMITS DISTURBED DURING OR PRIOR TO CONSTRUCTION, NOT DESIGNATED TO RECEIVE PLANTS AND MULCH, SHALL BE FINE GRADED AND SEEDED.
 A MINIMUM OF 20' SHALL BE MAINTAINED BETWEEN ANY STREET LIGHT AND TREE.

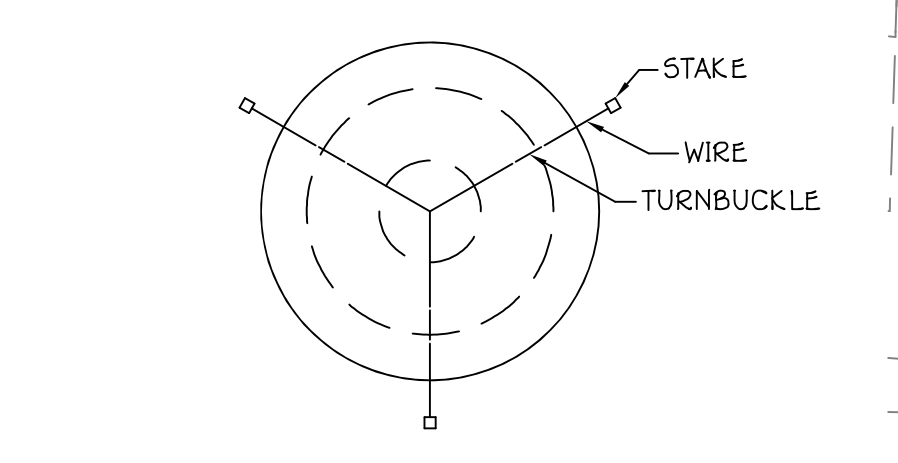
LANDSCAPING PLANT LIST

QTY.	KEY	NAME	SIZE
4	(Symbol)	ACER RUBRUM (OCTOBER GLORY, (OCTOBER RED MAPLE) OR EQUIVALENT)	2 1/2" CALIPER
2	(Symbol)	SWEET GUM	3" CALIPER

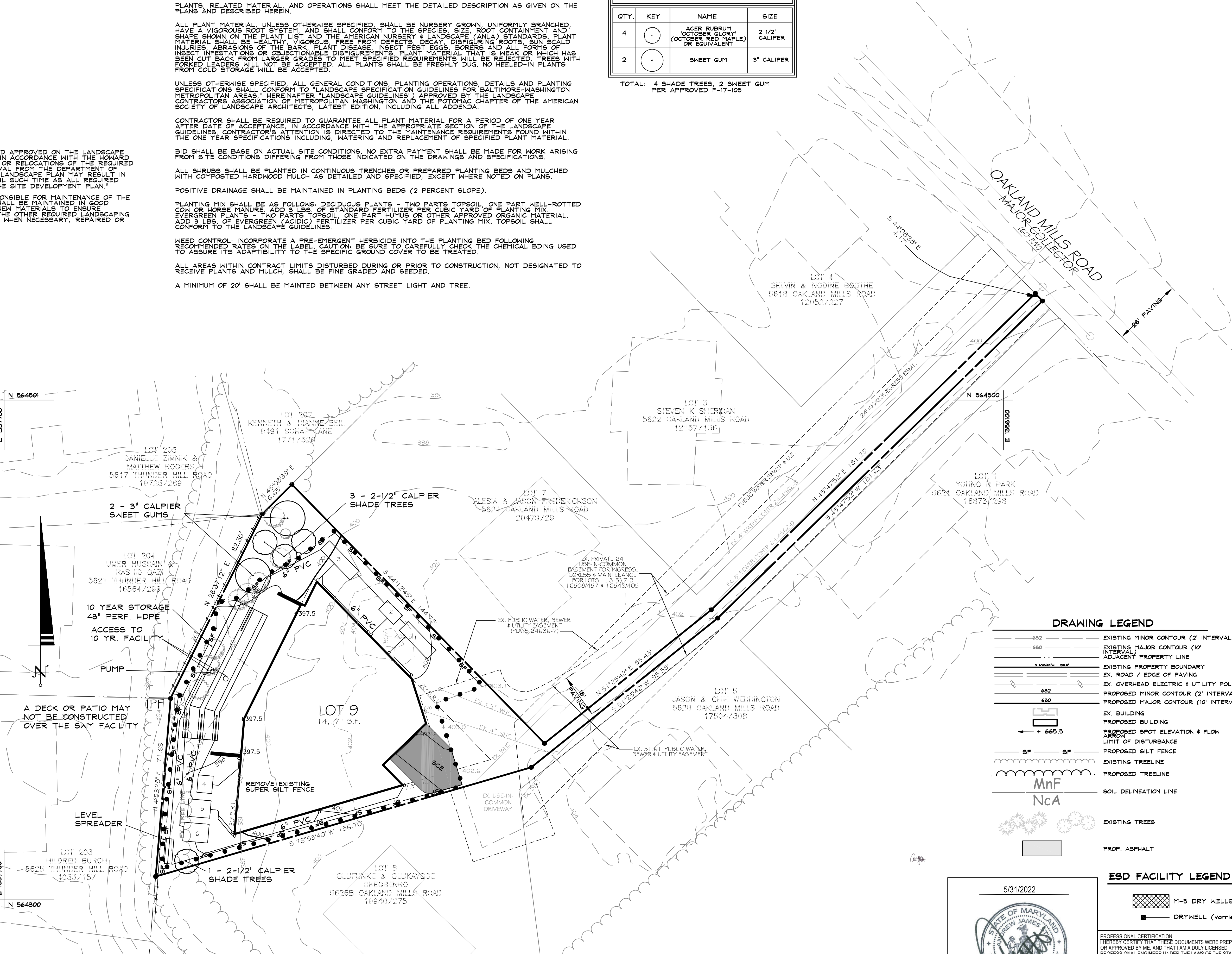
TOTAL: 4 SHADE TREES, 2 SWEET GUM PER APPROVED F-17-105



NOTE: REMOVE BURLAP FROM TOP 1/3 OF BALL.
TREE PLANTING
 NOT TO SCALE



STAKING DETAIL
 NOT TO SCALE



DATA SOURCES:
 EXISTING BOUNDARY SHOWN PER BOUNDARY SURVEY BY EXACTA LAND SURVEYORS, LLC DATED 2/10/21. TOPOGRAPHY SHOWN PER FIELD RUN TOPOGRAPHY PERFORMED BY DDC, INC. IN AUGUST 2021 AND SUPPLEMENTED WITH HOWARD COUNTY GIS.

DRAWING LEGEND

(Symbol)	EXISTING MINOR CONTOUR (2' INTERVAL)
(Symbol)	EXISTING MAJOR CONTOUR (10' INTERVAL)
(Symbol)	ADJACENT PROPERTY LINE
(Symbol)	EXISTING PROPERTY BOUNDARY
(Symbol)	EX. ROAD / EDGE OF PAVING
(Symbol)	EX. OVERHEAD ELECTRIC & UTILITY POLES
(Symbol)	PROPOSED MINOR CONTOUR (2' INTERVAL)
(Symbol)	PROPOSED MAJOR CONTOUR (10' INTERVAL)
(Symbol)	EX. BUILDING
(Symbol)	PROPOSED BUILDING
(Symbol)	PROPOSED SPOT ELEVATION & FLOW
(Symbol)	LIMIT OF DISTURBANCE
(Symbol)	PROPOSED SILT FENCE
(Symbol)	EXISTING TREELINE
(Symbol)	PROPOSED TREELINE
(Symbol)	SOIL DELINEATION LINE
(Symbol)	EXISTING TREES
(Symbol)	PROP. ASPHALT

ESD FACILITY LEGEND

(Symbol)	M-5 DRY WELLS
(Symbol)	DRYWELL (varies)

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. 21998. EXPIRATION DATE: JUNE 8, 2024.
 DATE: 5/31/2022
 W. RICHARD DEMARIO
 PROFESSIONAL ENGINEER NO. 21998

DDC
 Development Design Consultants
 Planners
 Surveyors
 Engineers
 Landscape Architects
 192 East Main Street
 Westminster, MD 21157
 410.386.0560
 410.386.0564 (Fax)
 DDC@DDCinc.us
 www.DDCinc.us

OWNER: SHARON SALKIN CANNON
 6394 LOOKINGGLASS LANE
 COLUMBIA, MD 21045
 402-870-7439
DEVELOPER: SAME

**MILL HAVEN
 LOT 9
 SITE DEVELOPMENT PLAN
 GRADING & SEDIMENT CONTROL
 PLAN & LANDSCAPE PLAN
 & SOILS MAP**

NO.	DESCRIPTION OF CHANGES	DRN.	REV.	DATE

CO. FILE #: F-17-105, ECP-17-033 DES. BY: RML/JC
 TAX MAP ACC. #: 06-600824 DRN. BY: RML/JC
 TAX MAP: 36 CHK. BY: WRD
 BLOCK / GRID: 4 DATE: 5/31/22
 PARCEL #: 2 DDC JOB#: 21021.1
 ZONE / USE: R-12 SHEET NUMBER:
 DWG. SCALE: 1" = 20' **2 of 5**

SOILS CHART

HSG	CODE	NAME	K VALUE
B	GhB	Glenn-Urban Land Complex, 0 to 8 percent slopes	0.28

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT PERMITTING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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/WE ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER:
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL AND CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT

NOTES:
 THE SILT FENCE MAY BE UPGRADED TO SUPER SILT FENCE AT THE DISCRETION OF THE SEDIMENT CONTROL INSPECTOR.



PERMIT INFORMATION CHART

SUBDIVISION NAME: MILL HAVEN	SECTION/AREA: N/A	LOT/PARCEL NO: LOT 9
PLAT # OR L.F.: 25347-49	BLOCK#: 4	ZONING: R-12
TAX MAP NO.: 36	ELECT. DISTRICT: 6TH	CENSUS TRACT: 8086.03
WATER CODE: N/A	SEWER CODE: N/A	

B-4-2 STANDARDS AND SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, AND SOIL AMENDMENTS

Definition - To process the preparing the soils to sustain adequate vegetative stabilization.

Purpose - To provide a suitable soil medium for vegetative growth.

Conditions Where Practice Applies - Where vegetative stabilization is to be established.

- Criteria
A. Soil Preparation
1. Temporary Stabilization
a. Seeded preparation consists of loosening soil to a depth of 3 to 5 inches by means of suitable agricultural or construction equipment...

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

Definition - The application of seed and mulch to establish vegetative cover.

Purpose - To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies - To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

- Criteria
A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed used must be subject to re-testing by a recognized seed laboratory...

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

Definition - To stabilize disturbed soils with vegetation for up to 6 months.

Purpose - To use fast growing vegetation that provides cover on a disturbed soils.

Conditions Where Practice Applies - Exposed soils where ground cover is needed for a period of 6 months or less.

- Criteria
Select one or more of the species or seed mixtures listed in Table B.3 for the appropriate Plant Hardness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths...

B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition - To stabilize disturbed soils with permanent vegetation.

Purpose - To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies - Exposed soils where ground cover is needed for 6 months or more.

- Criteria
A. Seed Mixtures
1. General
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2...

SEDIMENT CONTROL NOTES

- 1. A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED...

OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

- 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 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL...

Table with 2 columns: AREA, VALUE. Includes TOTAL AREA OF SITE (14,171 sq.ft.), AREA TO BE ROOFED OR PAVED (5,031 sq.ft.), etc.

7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.

EXISTING BOUNDARY SHOWN PER BOUNDARY SURVEY BY EXACTA LAND SURVEYORS, LLC

DATED 2/10/21 TOPOGRAPHY SHOWN PER FIELD RUN TOPOGRAPHY PERFORMED BY DDC, INC. IN AUGUST 2021 AND SUPPLEMENTED WITH HOWARD COUNTY GIS.

DDC Development Design Consultants logo and contact information: 192 East Main Street, Westminister, MD 21157, 410.386.0560

OWNER: SHARON SALKIN CANNON
DEVELOPER: SAME
6394 LOKINGGLASS LANE
COLUMBIA, MD 21045
402-670-7439

SITE ADDRESS: 5626 OAKLAND MILLS ROAD, COLUMBIA, MARYLAND 21045

MILL HAVEN LOT 9 SITE DEVELOPMENT PLAN GRADING, SEC NOTES & DETAILS

6th Election District, Howard County, Maryland

Table with columns: NO., DESCRIPTION OF CHANGES, DRN., REV., DATE. Includes revision 1 for CO. FILE # F-17-105, EOP-17-039.

B-4-3 STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

Definition - The application of seed and mulch to establish vegetative cover.

Purpose - To protect disturbed soils from erosion during and at the end of construction.

Conditions Where Practice Applies - To the surface of all perimeter controls, slopes, and any disturbed area not under active grading.

- Criteria
A. Seeding
1. Specifications
a. All seed must meet the requirements of the Maryland State Seed Law. All seed used must be subject to re-testing by a recognized seed laboratory...

B-4-4 STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

Definition - To stabilize disturbed soils with vegetation for up to 6 months.

Purpose - To use fast growing vegetation that provides cover on a disturbed soils.

Conditions Where Practice Applies - Exposed soils where ground cover is needed for a period of 6 months or less.

- Criteria
Select one or more of the species or seed mixtures listed in Table B.3 for the appropriate Plant Hardness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below along with application rates, seeding dates and seeding depths...

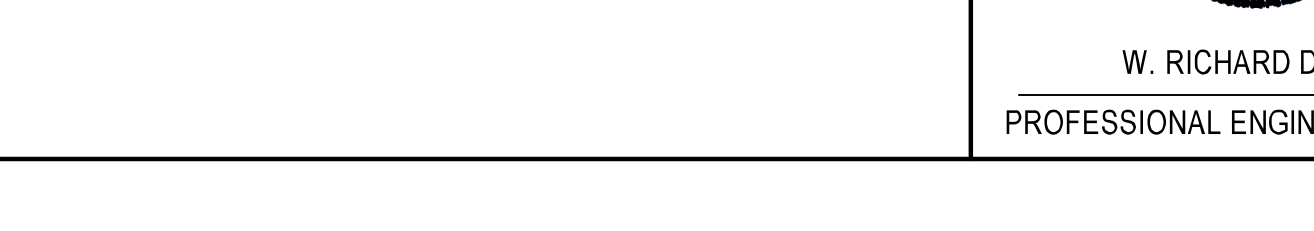
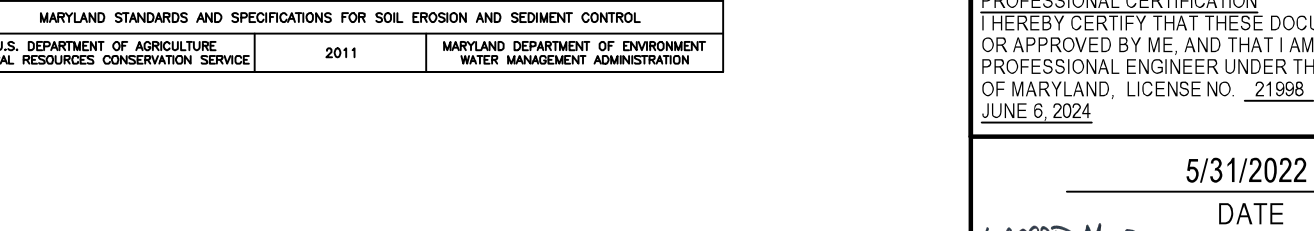
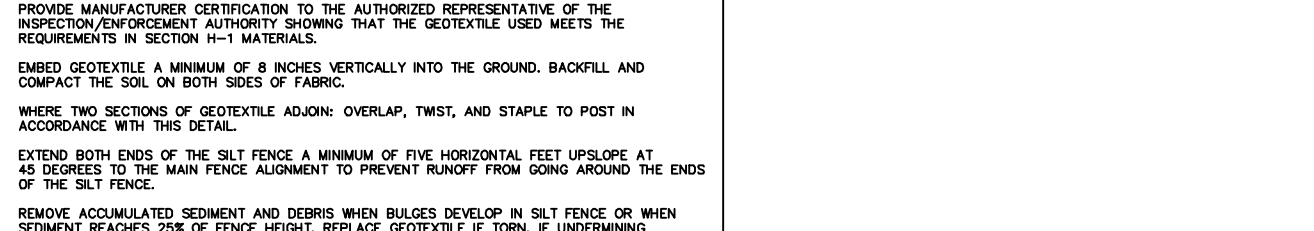
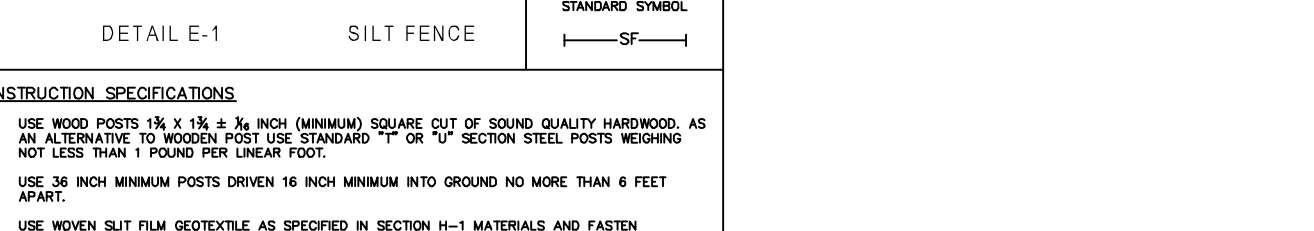
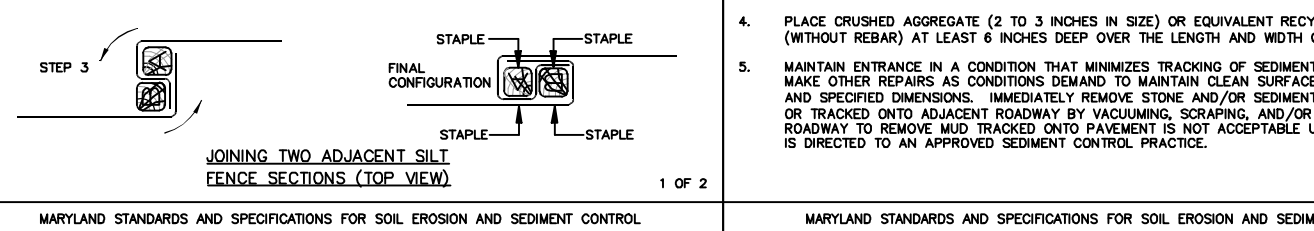
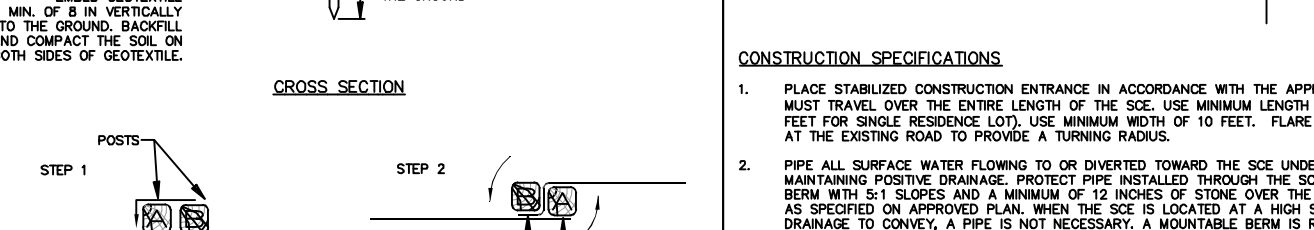
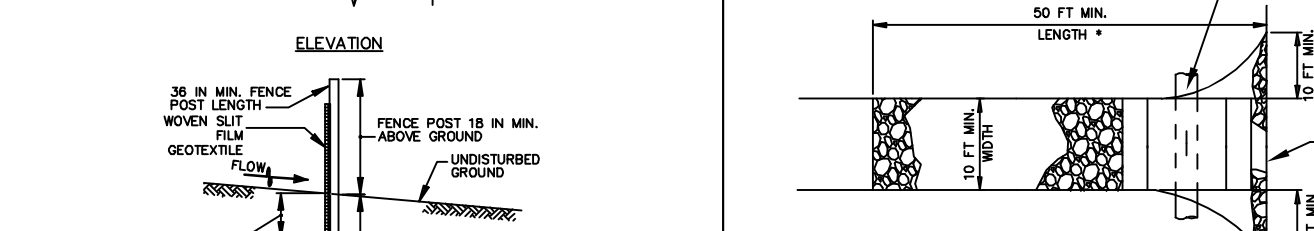
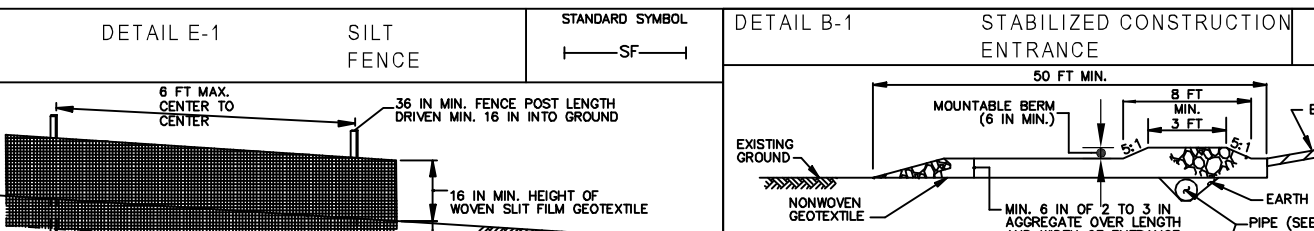
B-4-5 STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

Definition - To stabilize disturbed soils with permanent vegetation.

Purpose - To use long-lived perennial grasses and legumes to establish permanent ground cover on disturbed soils.

Conditions Where Practice Applies - Exposed soils where ground cover is needed for 6 months or more.

- Criteria
A. Seed Mixtures
1. General
a. Select one or more of the species or mixtures listed in Table B.3 for the appropriate Plant Hardness Zone (from Figure B.3) and based on the site condition or purpose found on Table B.2...



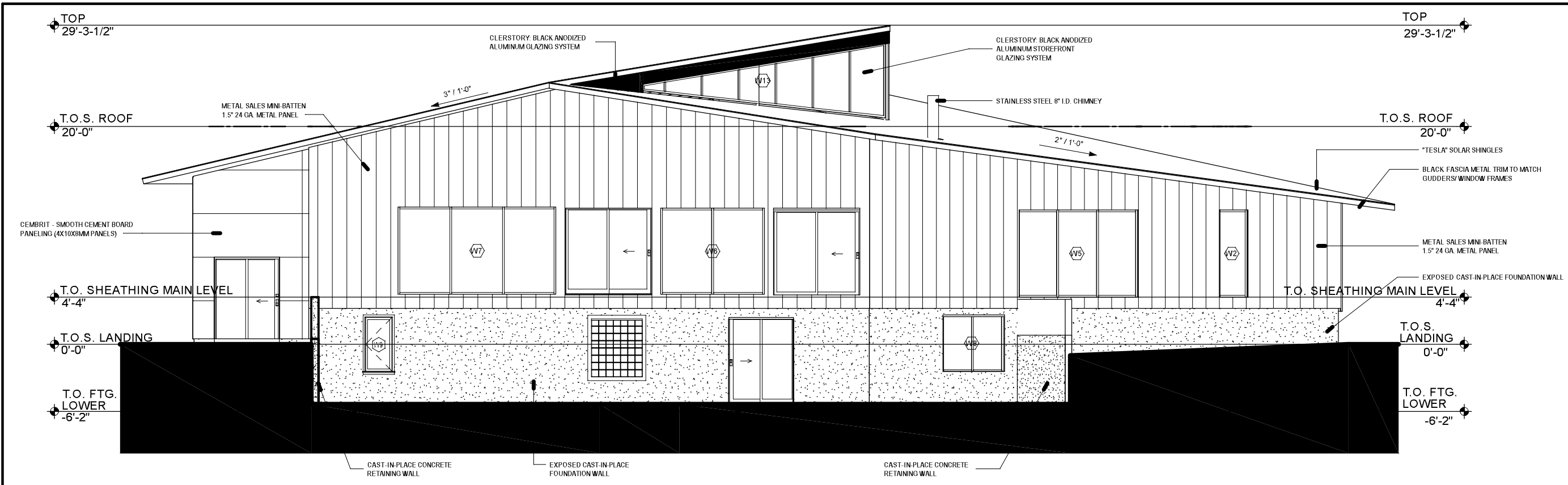
APPROVED: DEPARTMENT OF PLANNING AND ZONING, CHIEF DEVELOPER OF PERMITS DIVISION, CHIEF DIVISION OF PLANNING AND DEVELOPMENT, DIRECTOR

BY THE DEVELOPER: I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL...

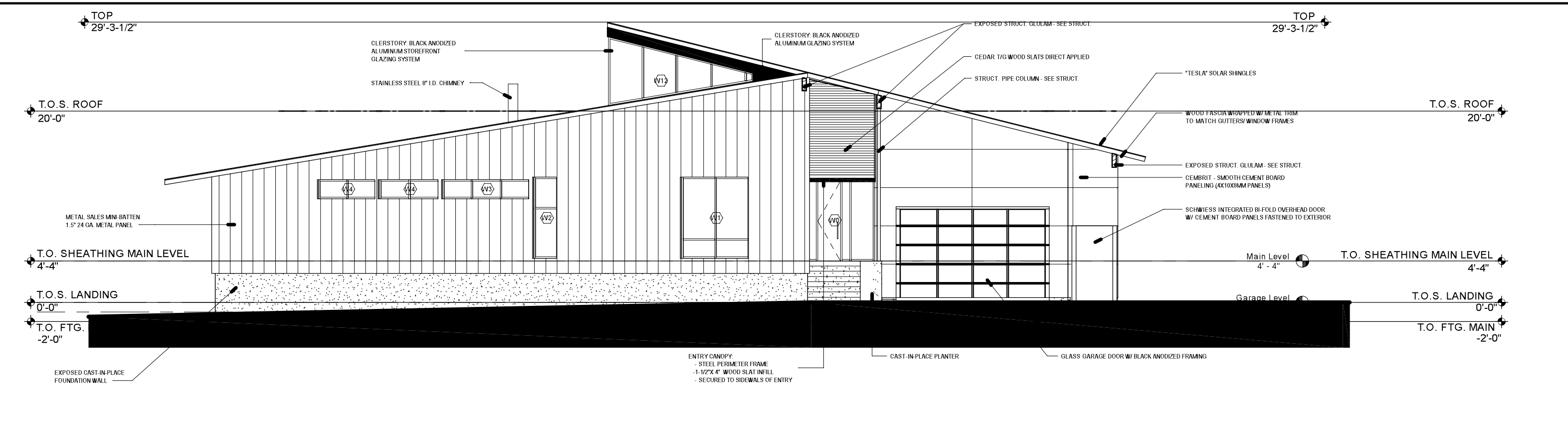
HOWARD SOIL CONSERVATION DISTRICT, THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL AND CONSERVATION DISTRICT.

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...

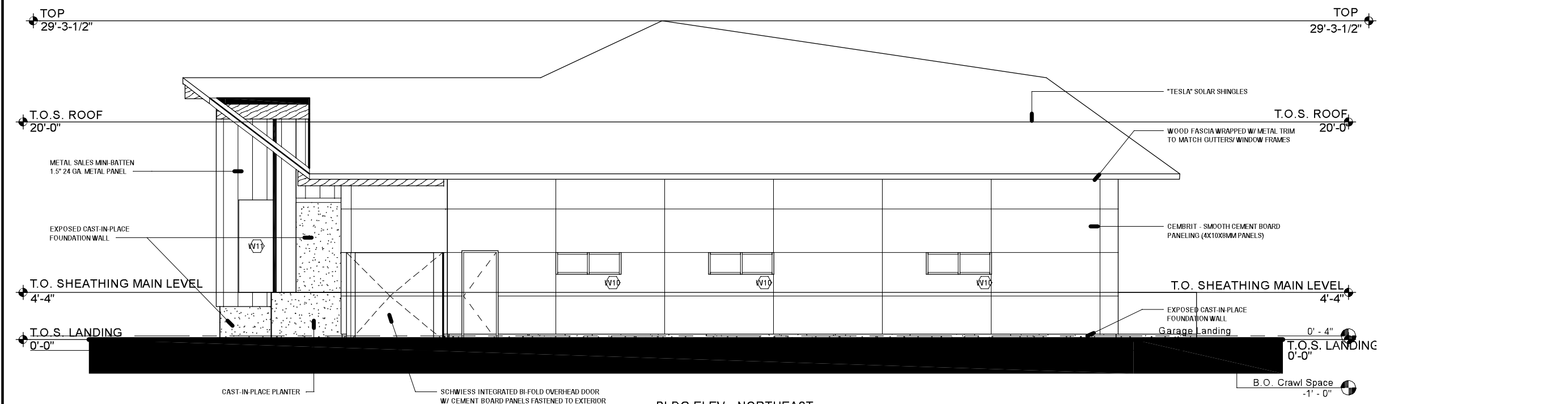
REVISIONS table with columns for NO., DESCRIPTION OF CHANGES, DRN., REV., DATE.



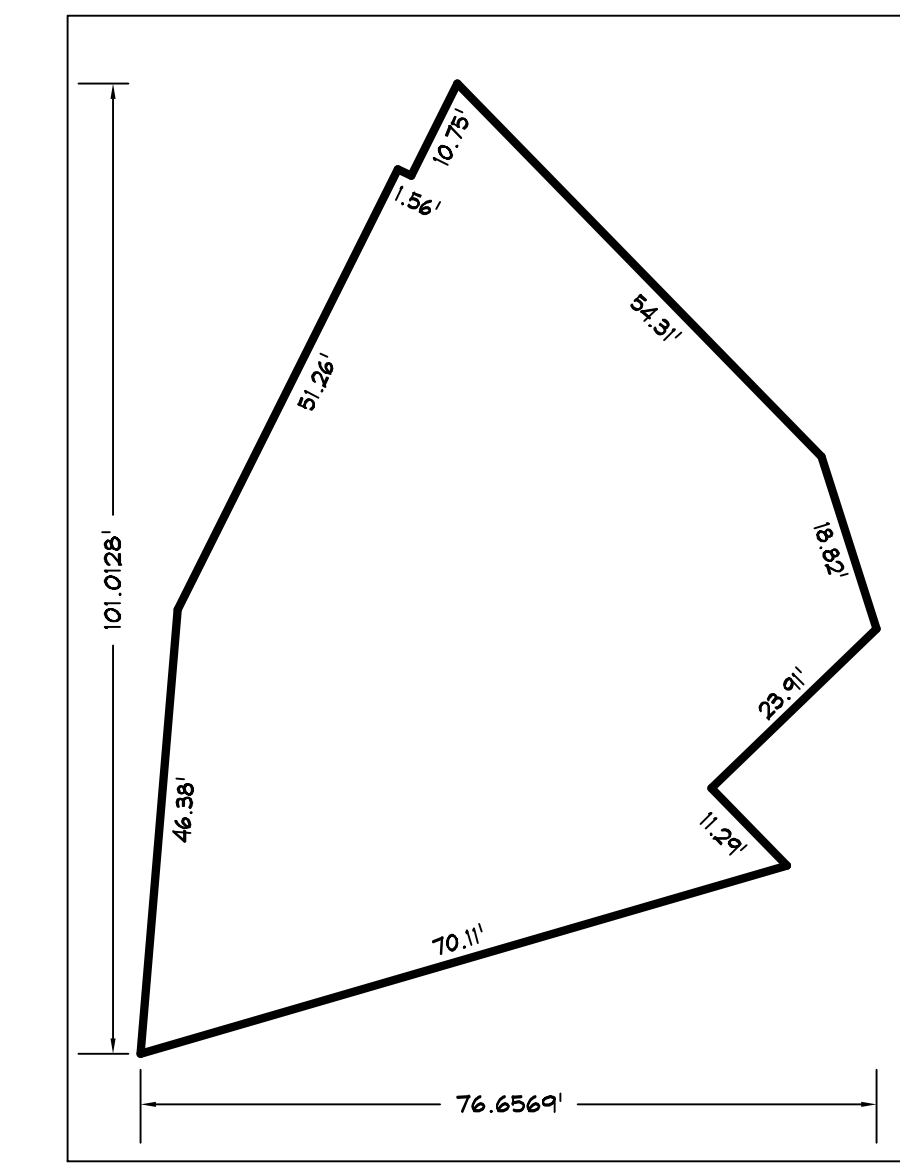
BLDG ELEV - NORTHWEST
1" = 10'



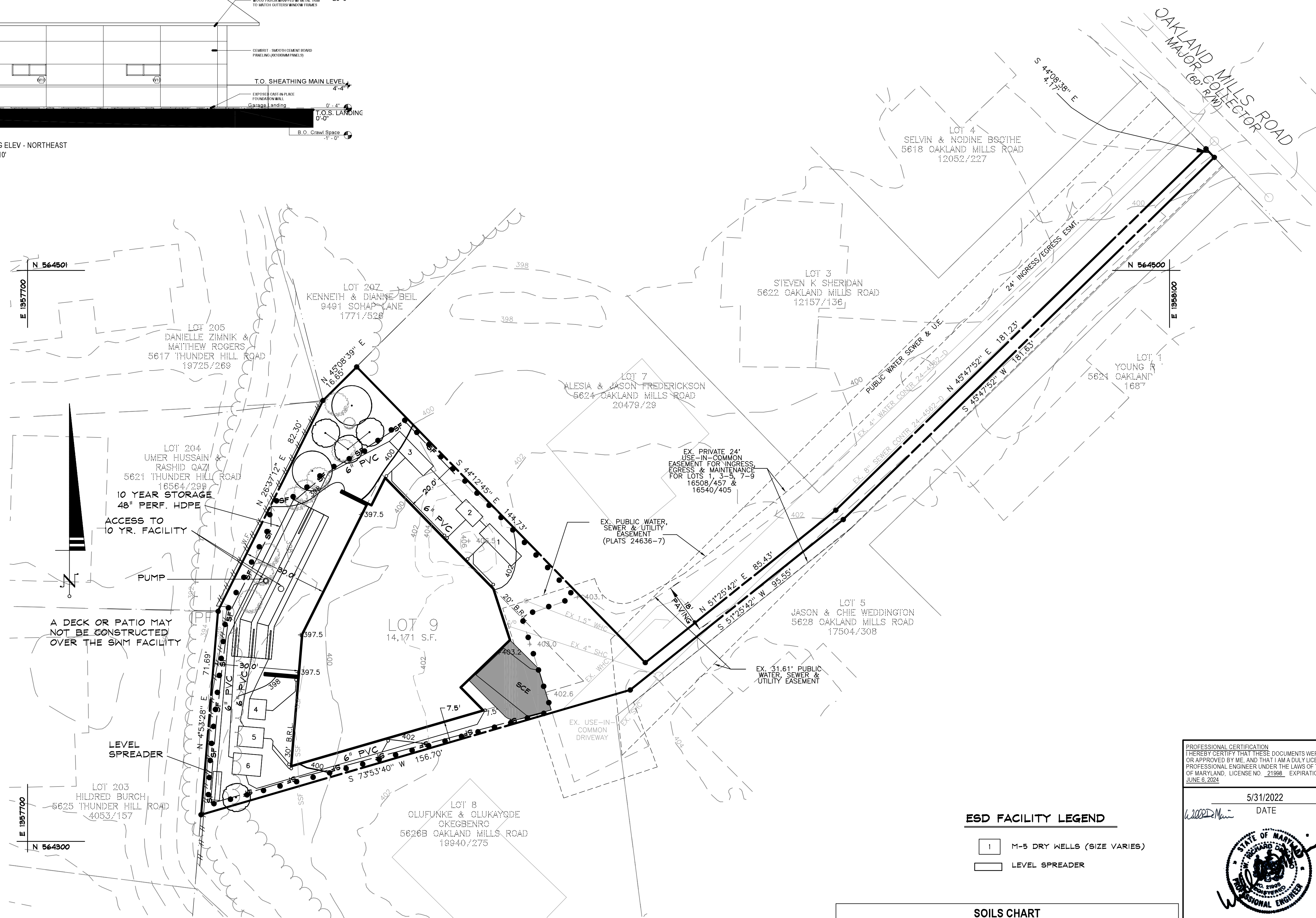
BLDG ELEV - SOUTHEAST
1" = 10'



BLDG ELEV - NORTHEAST
1" = 10'



HOUSE DIMENSIONS
SCALE 1" = 20'



PLAN
SCALE: 1" = 20'



ESD FACILITY LEGEND

- 1 M-5 DRY WELLS (SIZE VARIES)
- LEVEL SPREADER

SOILS CHART

HSG	CODE	NAME	K VALUE
B	GHB	Glenelg-Urban Land Complex, 0 to 8 percent slopes	0.28

DATA SOURCES:
EXISTING BOUNDARY SHOWN PER BOUNDARY SURVEY BY EXACTA LAND SURVEYORS, LLC DATED 2/10/21. TOPOGRAPHY SHOWN PER FIELD RUN TOPOGRAPHY PERFORMED BY DDC, INC. IN AUGUST 2021 AND SUPPLEMENTED WITH HOWARD COUNTY GIS.

DDC inc.
Development Design Consultants

Planners
Surveyors
Engineers
Landscape Architects

192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (fax)
DDC@DDCinc.us
www.DDCinc.us

OWNER:
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DEVELOPER:
SAME

SITE ADDRESS:
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COLUMBIA, MARYLAND 21045

**MILL HAVEN
LOT 9
SITE DEVELOPMENT
PLAN
STORMWATER
MANAGEMENT
PLAN
& ELEVATIONS**

6th Election District Howard County, Maryland

NO.	DESCRIPTION OF CHANGES	DRN	REV.	DATE

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. 21998, EXPIRATION DATE: JUNE 8, 2024.

5/31/2022
DATE

W. Richard Demario

W. RICHARD DEMARIO
PROFESSIONAL ENGINEER NO. 21998

APPROVED: DEPARTMENT OF PLANNING AND ZONING
6/23/2022

DocuSigned by:
CHAD Edmondson

CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 6/23/2022

CHIEF, DIVISION OF PLANNING AND DEVELOPMENT
DATE: 6/23/2022

DocuSigned by:
Amy Goman

DIRECTOR
DATE: 6/23/2022

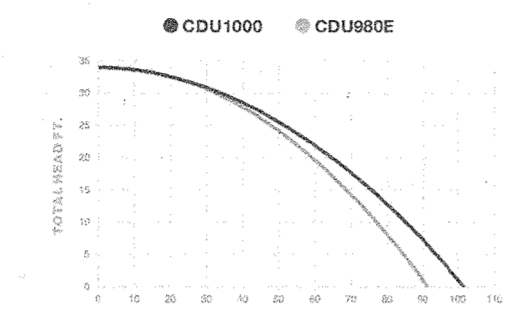
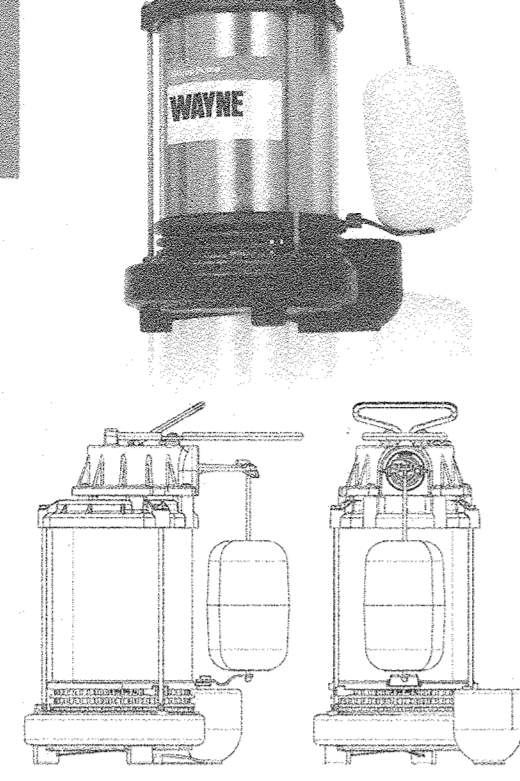
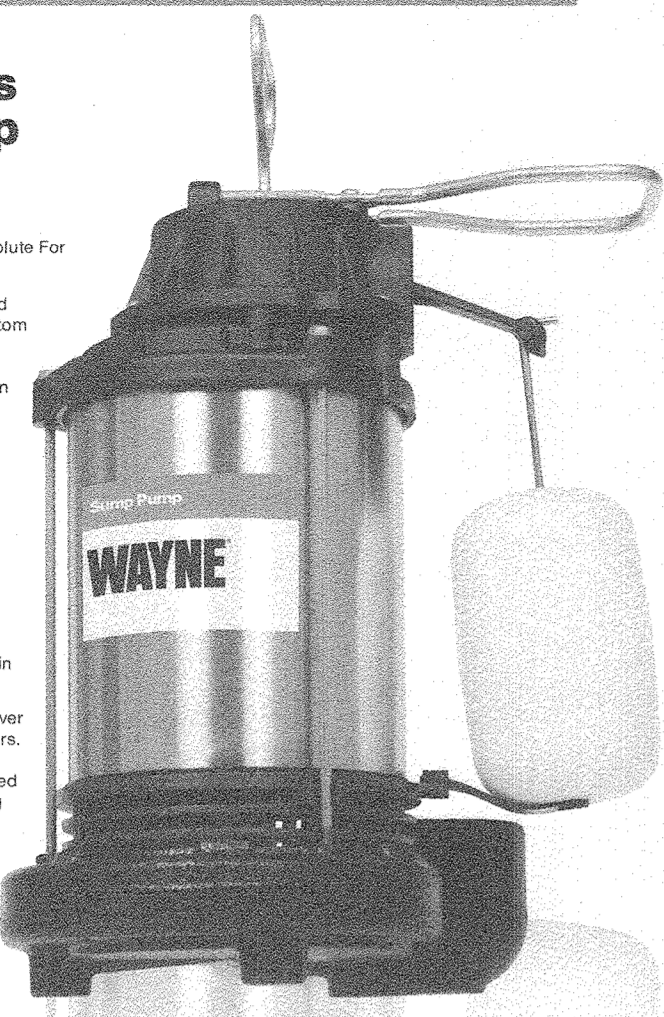
WAYNE

MODEL: CDU900E, 3/4 HP | CDU1000, 1HP

WAYNE Stainless Steel Sump Pump

- CONSTRUCTION**
- Corrosion Resistant Stainless Steel Motor Housing and Fasteners With A Cast Iron Volute For Long Life In Tough Sump Applications
 - Top Suction Design Eliminates Air Lock and Prevents Clogging From Debris in the Bottom of the Sump Pit
 - 1-1/2 in. NPT Discharge for Easy Installation and Compliance with Building Codes
 - Reliable Thermoplastic Impeller for Maximum Water Flow
 - For Use In 11 in. Diameter or Larger Sump Basins
 - 8 Ft. SJTW Power Cord

- BENEFITS**
- This pump is easy to install. Start to finish in about 15 minutes. No welds needed.
 - This pump is assembled in the USA to deliver dependable performance that lasts for years.
 - This Ultra Quiet pump is expertly engineered and assembled to be The Hardest Working Pump You'll Never Hear!
 - Quality and Reliability. Warranted.
 - CDU900E Pump Part # 58321-MVNS
 - CDU1000 Pump Part # 58321-MVNZ



WAYNE STAINLESS STEEL SUMP PUMP

MODEL: CDU900E, 3/4 HP | CDU1000, 1HP

- PUMP SNAPSHOT**
- HP - CDU900E, 3/4 HP | CDU1000, 1 HP
 - Construction - Stainless Steel & Cast Iron Bottom
 - Switch Type - Integrated Vertical Float Switch
 - Motor - 120V PSC O5-Fixed
 - Impeller - Centrifugal
 - Intake - Top Suction
 - Discharge - 1 1/2 in.
 - Submersible - Fully Submersible
 - CDU900E UPC - 040066214744
 - CDU1000 UPC - 040066214836

- PUMP SPECIFICATIONS**
- Length - 10 1/2 in.
 - Width - 9 in.
 - Height - 11 in.
 - Weight - 22 Lbs.
 - Power Cord - 8 Ft.

- PERFORMANCE**
- CDU900E - 3/4 HP - Max Flow 92 GPM @ 6' M @ 5'
 - CDU1000 - 1 HP - Max Flow 102 GPM @ 6' M @ 5'

FLOW RATE: GALLONS PER MINUTE

Model	Head (ft)	Flow (GPM)
CDU900E - 3/4 HP	0	92
	5	77
	10	66
	15	58
CDU1000 - 1 HP	0	102
	5	85
	10	76
	15	64

- 5 YEAR LIMITED WARRANTY**
- Assembled in USA with Foreign and Domestic Parts
 - 9 in. ON level, 4 in. OFF level.

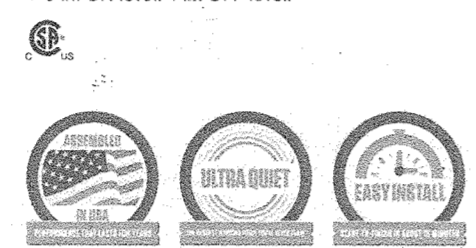
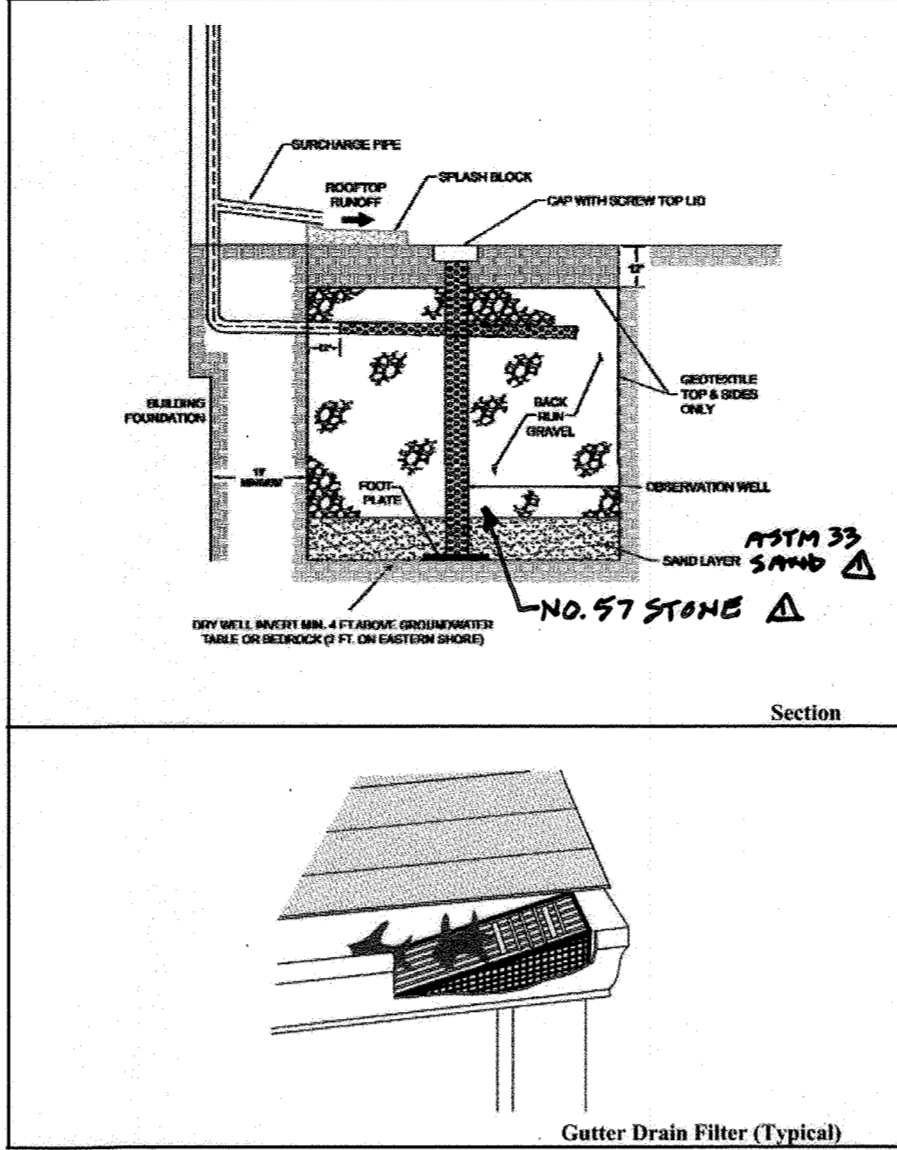


Figure 5.13 Dry Well



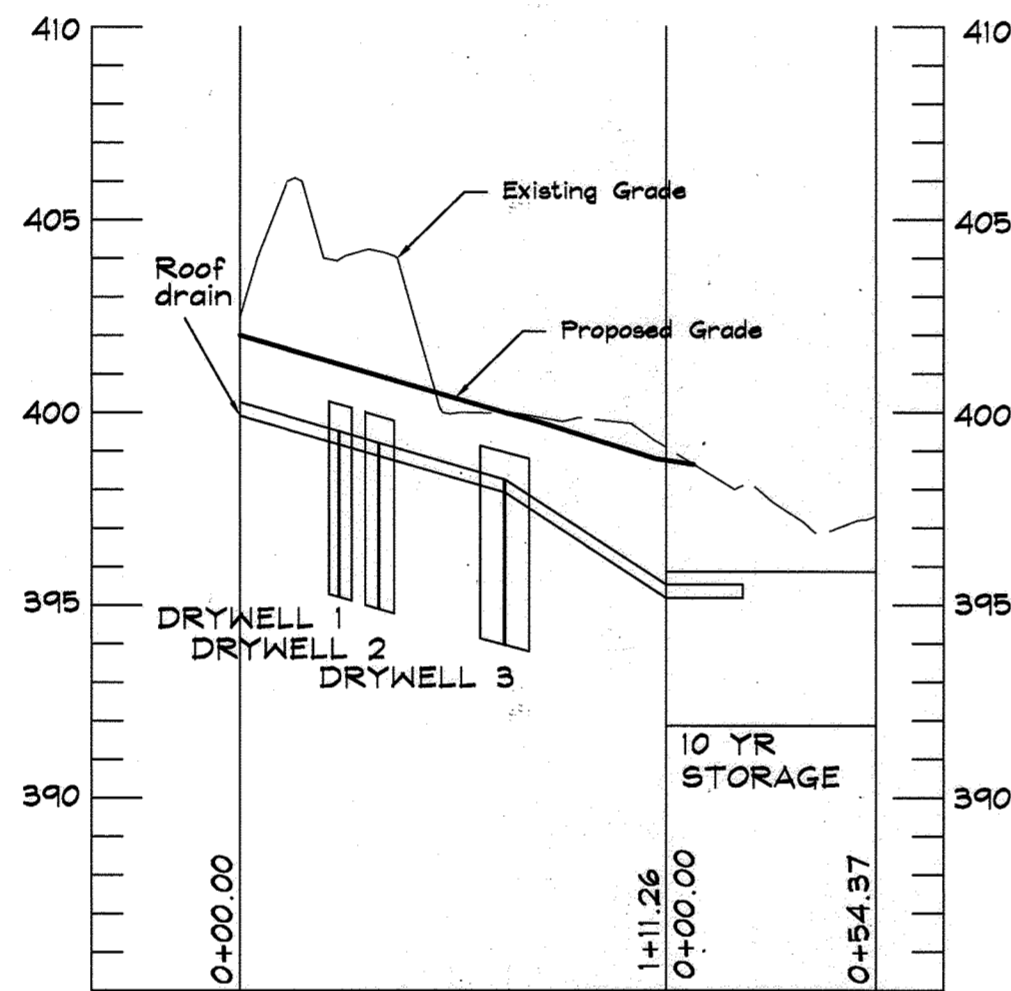
Gutter Drain Filter (Typical)

A WAYNE CDU 900E, 3/4 HP SUBMERSIBLE PUMP WITH AUTOMATIC SWITCH (OR EQUIVALENT) SHALL BE INSTALLED ON A CPU IN THE 48" 10 YEAR STORAGE PIPE NEAR THE MIDDLE OF THE 10 YR FACILITY. THE OUTFLOW OF THE PUMP SHALL ALWAYS HAVE A POSITIVE SLOPE UNTIL IT ENTERS THE LEVEL SPREADER.

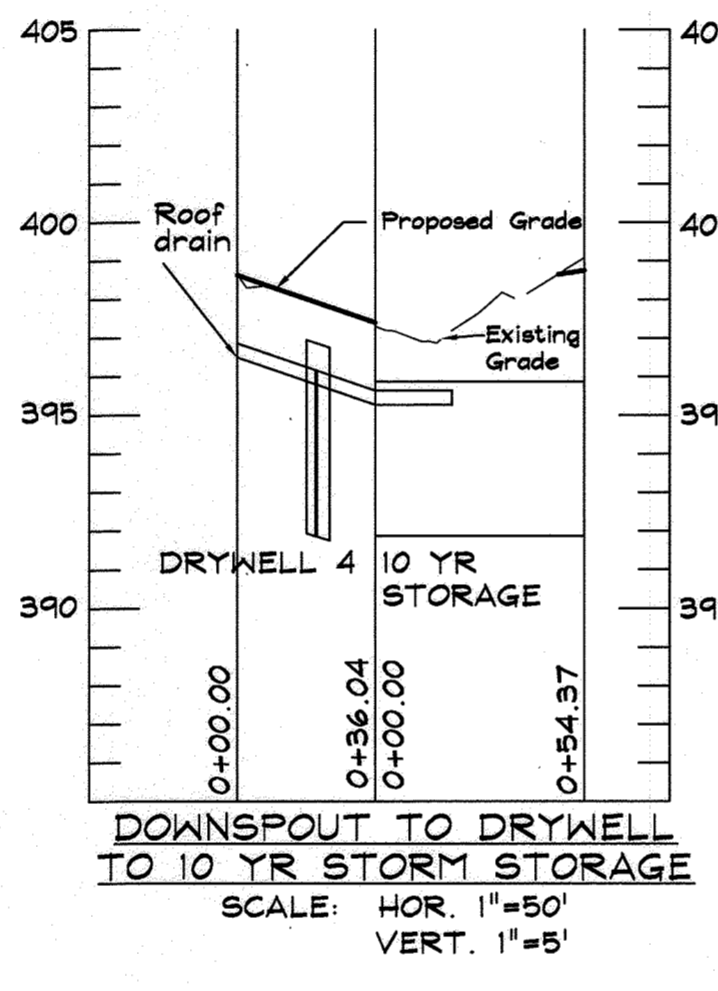
NOTE: SWITCH ON PUMP SHOULD BE DESIGNED TO EMPTY THE STORAGE PIPES BETWEEN STORMS.

DESIGN NARRATIVE

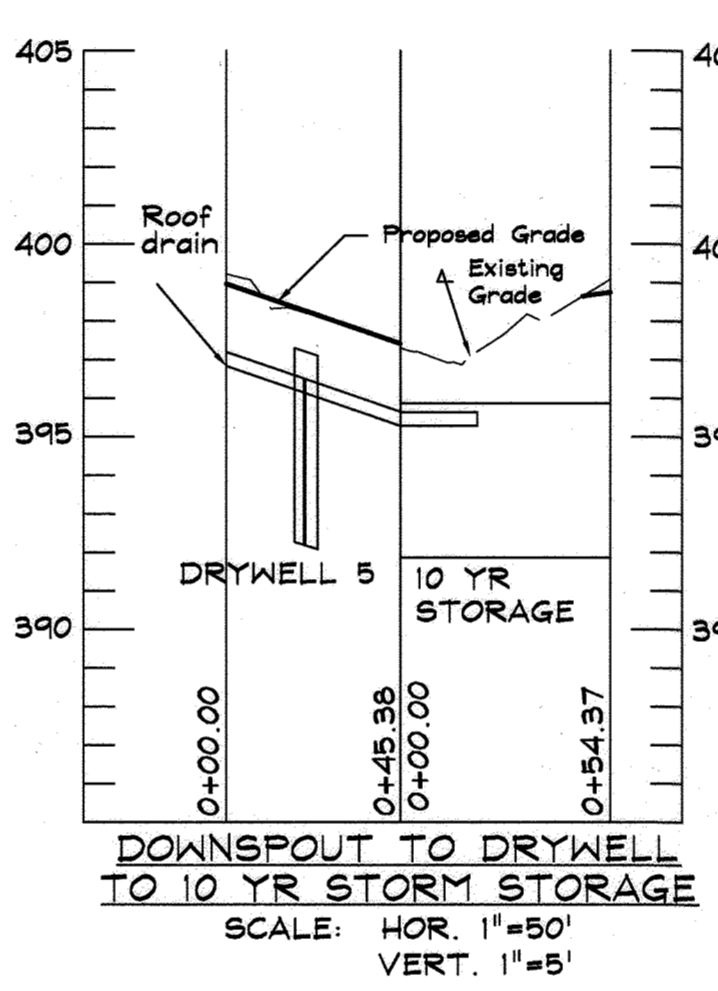
- THE PARCEL HAS BEEN INVESTIGATED AND NO WETLANDS OR FOREST RETENTION / REFORESTATION AREAS OF INTEREST WERE FOUND.
- THE NATURAL FLOW PATTERNS ARE MAINTAINED.
- THE SITE IS WITHIN A RESIDENTIAL AREA AND THE USE IN COMMON DRIVEWAY IS EXISTING. STORM WATER MANAGEMENT FOR THE USE IN COMMON DRIVEWAY HAS PROVIDED BY SDP-17-105.
- NONE OF THE FILTERING PRACTICES WILL BE INSTALLED PRIOR TO THE DRAINAGE AREA BEING STABILIZED.
- THE HYDROLOGY HAS BEEN DEVELOPED BASED ON THE PROPOSED IMPROVEMENTS. THE ESD PRACTICES TO BE UTILIZED WILL BE DRYWELLS (M-5). THE FACILITIES HAVE BEEN SIZED TO TREAT 100% OF THE NEAR IMPERVIOUS AREAS.
- DRY WELLS (M-5) WILL BE CONNECTED TO THE PROPOSED HOUSE VIA 6 INCH ROOF DRAINS. THE DRY WELLS PROVIDE AN EFFICIENT OPTION FOR TREATING ROOF RUNOFF ON-SITE. PRETREATMENT FOR THE DRY WELLS WILL BE PROVIDED BY A GUTTER DRAIN FILTER IN ORDER TO BLOCK SEDIMENT, LEAVES, OR OTHER DEBRIS FROM ENTERING THE SYSTEM.
- THE DRYWELLS ARE CONNECTED TO THE UNDERGROUND STORAGE VIA 6" PVC. WHERE THE PIPES ENTER THE FACILITY THEY WILL EXTEND FOR 20 FT AND THOSE 20FT SHALL BE PERFORATED OR SLOTTED. THE FACILITY IS DESIGNED TO CAPTURE AND STORE THE 10 YR STORM EVENT UNTIL IT CAN INFILTRATE.
- A WAYNE CDU 900E, 3/4 HP SUBMERSIBLE PUMP WITH AUTOMATIC SWITCH (OR EQUIVALENT) SHALL BE INSTALLED ON A CPU IN THE 48" 10 YEAR STORAGE PIPE NEAR THE MIDDLE OF THE 10 YR FACILITY. THE OUTFLOW OF THE PUMP SHALL ALWAYS HAVE A POSITIVE SLOPE UNTIL IT ENTERS THE LEVEL SPREADER.
- THE LEVEL SPREADER SHALL BE 10 FT LONG, 3 FT WIDE, AND 2 1/2 FT DEEP. A 6" PERFORATED PIPE WILL BE INSTALLED IN THE UPPER THIRD OF THE STONE AND RUN THE LENGTH OF THE LEVEL SPREADER.
- THERE WILL BE NO REQUEST FOR DESIGN MANUAL WAIVERS FOR THE STORM WATER DESIGN.
- THE ESD VOLUME CAN BE FULLY COLLECTED AND TREATED WITHIN THE PROPOSED FACILITIES. SINCE ESDV GOALS ARE MET, NO ADDITIONAL SWM PRACTICES ARE REQUIRED.



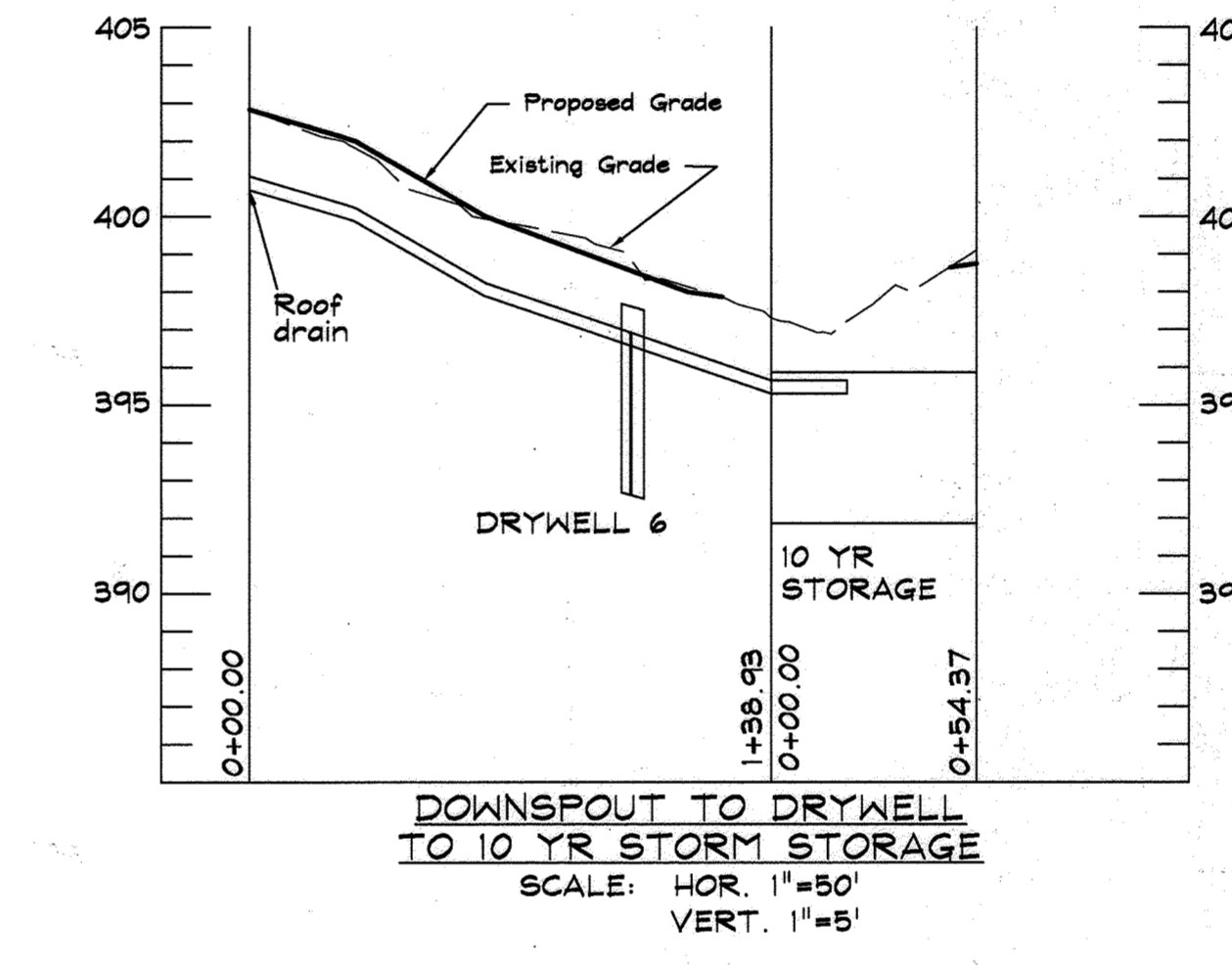
DOWNSPOUT TO DRYWELL TO 10 YR STORM STORAGE
SCALE: HOR. 1"=50'
VERT. 1"=5'



DOWNSPOUT TO DRYWELL TO 10 YR STORM STORAGE
SCALE: HOR. 1"=50'
VERT. 1"=5'



DOWNSPOUT TO DRYWELL TO 10 YR STORM STORAGE
SCALE: HOR. 1"=50'
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VERT. 1"=5'

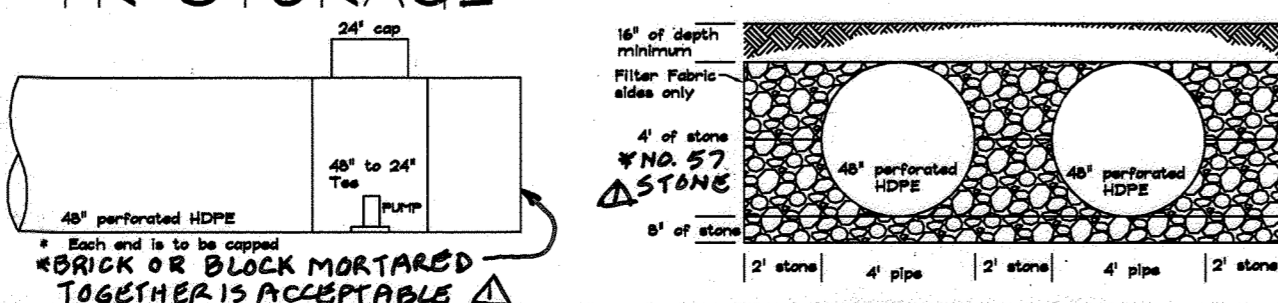
OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED STORM WATER MANAGEMENT (MINIMUM ANNUAL INSPECTIONS)

- INSPECT LEVEL SPREADERS FOR SIGNIFICANT CORROSION, CRACKS, SPALLING AND SEPARATION. REMOVE AND PROPERLY DISPOSE OF DEBRIS, SILT, OR PLANTS. REPAIR STRUCTURES TO GOOD CONDITION PER THE APPROVED PLANS AND SPECIFICATIONS. REPLACE ANY MISSING GRAVEL.
- ROOF DRAINS AND ROOF GUTTERS SHALL BE INSPECTED AND CLEANED ANNUALLY.
- DRY WELLS SHALL BE INSPECTED AND CLEANED ANNUALLY. THIS INCLUDES PIPES, GUTTERS, DOWNSPOUTS AND ALL FILTERS. PONDING, STANDING WATER OR ALGAE GROWTH ON THE TOP OF A DRY WELL MAY INDICATE FAILURE DUE TO SEDIMENTATION IN THE GRAVEL MEDIA. IF WATER PONDING FOR MORE THAN 48 HOURS AFTER A MAJOR STORM OR MORE THAN 6" OF SEDIMENT HAS ACCUMULATED, THE GRAVEL MEDIA SHOULD BE EXCAVATED AND REPLACED.
- THE UNDERGROUND STORM WATER MANAGEMENT FACILITY SHALL BE INSPECTED YEARLY. A MINIMUM AND AFTER SEVERE STORM EVENTS, THE FACILITY SHALL BE CLEANED WHEN BEDDING HAS ACCUMULATED TO THE POINT THE PIPE INVERT AND JOINTS CANNOT BE PROPERLY INSPECTED. WHEN ANY DEBRIS THAT MIGHT OBSTRUCT THE OUTFALL IS OBSERVED, THE FACILITY SHALL BE CLEANED. THE INLET AND OUTLET PIPES SHALL BE CHECKED FOR ANY OBSTRUCTIONS AT LEAST ONCE EVERY (6) MONTHS. IF OBSTRUCTIONS ARE FOUND, THE OWNER SHALL HAVE THEM REMOVED AND PROPERLY DISPOSED OF. ALL SPOILS/DEBRIS FROM THE UNDERGROUND STORAGE SHALL BE HAULED TO AN APPROVED MARYLAND DEPARTMENT OF THE ENVIRONMENT DISPOSAL SITE. CONTRACTORS MAY BE REQUIRED TO PROVIDE DUMP TICKETS SHOWING DUMP SITE, DATE, AMOUNT DUMPED AND CONTRACTOR TO THE ENVIRONMENTAL GATEWAY DRIVEWAY SUITE 210, COLUMBIA, MD 21046.
- IF ALARM FOR PUMP SOUNDS, THE PUMP SHALL BE INSPECTED AND THE ISSUE RESOLVED.

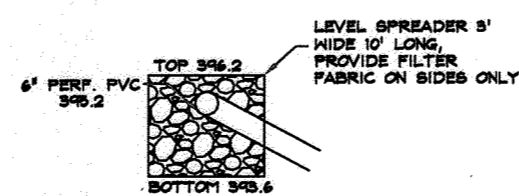
SEQUENCE OF CONSTRUCTION FOR 10 YR FACILITY

- CONTACT THE CERTIFYING PROFESSIONAL ENGINEER /PROFESSIONAL LAND SURVEYOR (DDC, INC.). ONCE THE CERTIFYING PROFESSIONAL HAS GIVEN HIS/HER APPROVAL IN ACCORDANCE WITH INSPECTION CHART.
- EXCAVATE FOR 10 YR FACILITY, LEVEL SPREADER AND PUMP.
- INSTALL FILTER FABRIC ON THE SIDES.
- INSTALL THE PUMP.
- INSTALL 8" STONE BASE, THEN INSTALL THE 4 FT. PIPES. NEXT INSTALL THE INFLOW PIPE FOR THE PUMP TOWARDS THE MIDDLE OF THE FACILITY (5 FT LENGTH OF PERFORATED PIPE THAT IS WRAPPED IN NON-WOVEN FILTER FABRIC). ENSURE THAT THE TEE'S FOR ENTERING THE 4 FT PIPE ARE INSTALLED THEN THE NEXT STEP CAN BEGIN.
- INSTALL THE OUTFALL PIPE IS INSTALLED TO THE LEVEL SPREADER AND THE INFLOW PIPES FROM THE DRYWELLS ARE INSTALLED. FILL THE 10 YR FACILITY WITH STONE. IN 6" LIFTS. COVER THE TOP OF THE FACILITY WITH FILTER FABRIC BEFORE BACKFILLING.
- ONCE LEVEL SPREADER AND 10 YR FACILITY IS INSTALLED, SUBMIT AS-BUILT CERTIFICATION FOR BOND RELEASE.

ACCESS TO 10 YR STORAGE



1/2" HOLES WILL BE DRILLED IN THE BOTTOM 3/8" OF THE PIPE FOR PERFORATIONS



APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE: 6/23/2022

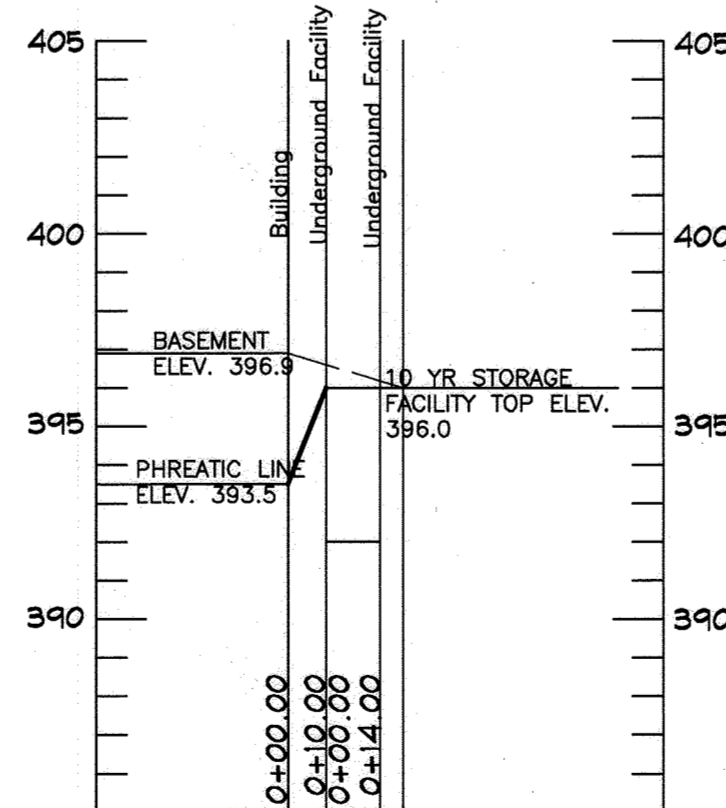
CHIEF DEVELOPMENT ENGINEERING DIVISION

DATE: 6/23/2022

CHIEF DIVISION OF PLANNING AND DEVELOPMENT

DATE: 6/23/2022

DIRECTOR

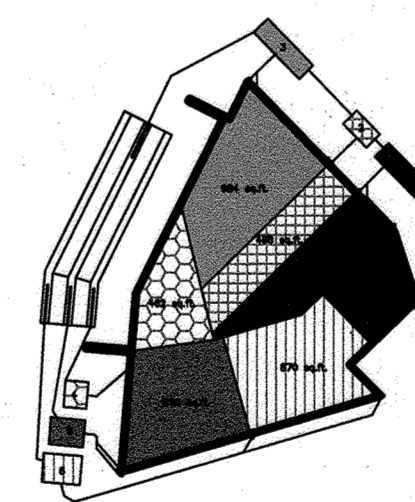


PHREATIC LINE FOR 10 YR STORM EVENT
SCALE: HOR. 1"=50'
VERT. 1"=5'



SOILS CHART

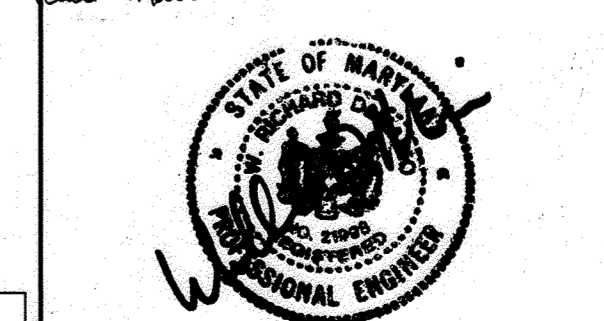
HSG	CODE	NAME	K VALUE
B	GbB	Glenn-Urbn Land Complex, 0 to 8 percent slopes	0.28



SWM DRAINAGE AREAS TO DRYWELLS

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21998. EXPIRATION DATE: JUNE 5, 2024.

5/31/2022
DATE



W. RICHARD DEMARIO
PROFESSIONAL ENGINEER NO. 21998

ENVIRONMENTAL SITE DESIGN SUMMARY TABLE

DRYWELLS	PROVIDED ESD VOL	REQUIRED ESD VOL
DRYWELL 1 5'X16'X5'	160 CF	160 CF
DRYWELL 2 5'X8.5'X5'	90 CF	85 CF
DRYWELL 3 5'X17'X5'	178 CF	168 CF
DRYWELL 4 7'X6'X5'	84 CF	79 CF
DRYWELL 5 7'X10'X5'	140 CF	140 CF
DRYWELL 1 7.5'X10'X5'	150 CF	148 CF
TOTAL	797 CF	780 CF

*DRYWELLS MUST BE 10' FROM HOUSE
EXISTING BOUNDARY SHOWN PER BOUNDARY SURVEY BY EXACTA LAND SURVEYORS, LLC DATED 2/10/21. TOPOGRAPHY SHOWN PER FIELD RUN TOPOGRAPHY PERFORMED BY DDC, INC. IN AUGUST 2021 AND SUPPLEMENTED WITH HOWARD COUNTY GIS.

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**MILL HAVEN LOT 9
SITE DEVELOPMENT PLAN
STORM WATER MANAGEMENT NOTES AND DETAILS**

6th Election District Howard County, Maryland

NO.	DESCRIPTION OF CHANGES	DRN	REV.	DATE
1	UPDATED 10 YR STORAGE	LC	RAM	ZJES

TAX ACC. #:	DES. BY:	DRN. BY:	CHK. BY:	DATE:	SHEET NUMBER:
06-600824	RM	RML/JC	WRD	5/31/22	5 of 5

DWG. SCALE: 1" = 20'