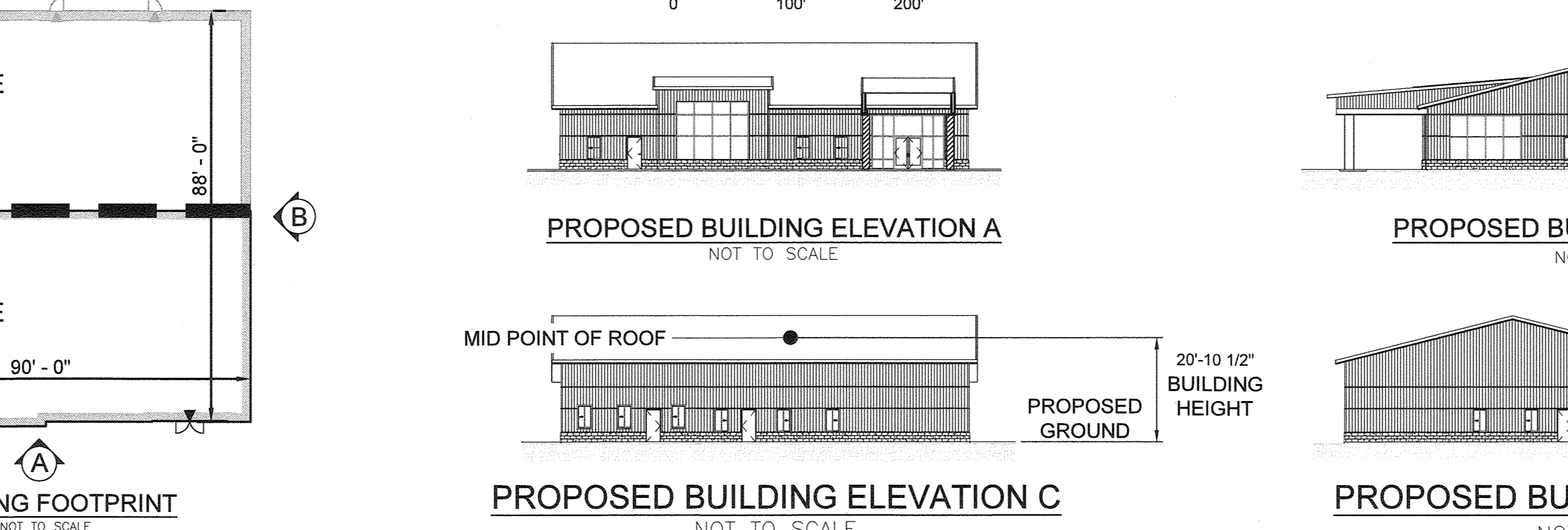
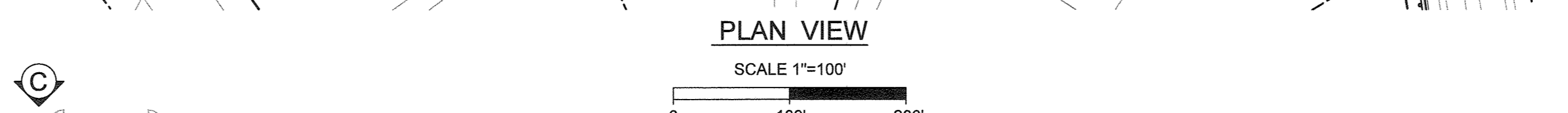
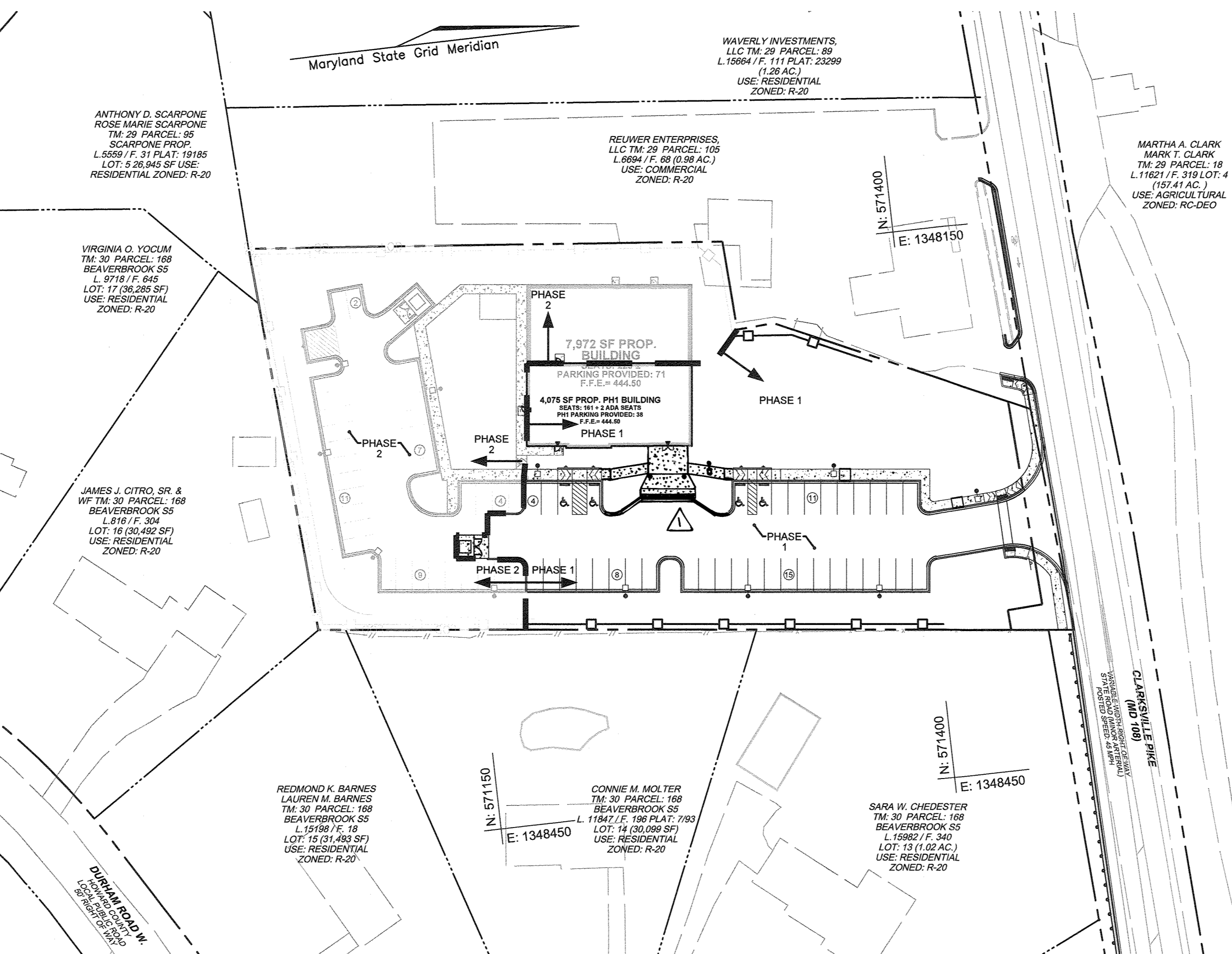


SITE DEVELOPMENT PLAN

NEW PATH REFORMED CHURCH

10425 CLARKSVILLE PIKE (MD RTE 108)
HOWARD COUNTY, MD



PROPOSED BUILDING ELEVATION A NOT TO SCALE
 PROPOSED BUILDING ELEVATION B NOT TO SCALE
 PROPOSED BUILDING ELEVATION C NOT TO SCALE
 PROPOSED BUILDING ELEVATION D NOT TO SCALE

GENERAL NOTES (CONT'D...)

- BY LETTER DATED FEBRUARY 4, 2022, PETITIONER NEW PATH REFORMED CHURCH REQUESTED AN EXTENSION OF TIME WITHIN WHICH TO OBTAIN A BUILDING PERMIT PURSUANT TO THE APPROVAL OF BA 19-031C. THE REQUEST FOR AN EXTENSION OF 2 YEARS IN WHICH NEW PATH REFORMED CHURCH MUST OBTAIN A BUILDING PERMIT FOR THE RELIGIOUS FACILITY WAS GRANTED ON FEBRUARY 25, 2022.
- THE REQUEST FOR APPROVAL OF A PARKING PLAN FOR THE RELIGIOUS FACILITY CONDITIONAL USE APPROVED IN BA 19-031C WAS GRANTED AUGUST 30, 2023 SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE FIRST PHASE WILL INCLUDE THE CONSTRUCTION OF (1) 3,896 SQUARE FEET OF THE APPROVED 7,972 SQUARE FOOT RELIGIOUS FACILITY, AND (2) 39 OF THE APPROVED 71 PARKING SPACES, TO BE SUBSTANTIALLY CONSTRUCTED BY FEBRUARY, 2025.
 - THE SECOND PHASE WILL INCLUDE THE 3,896 SQUARE FOOT REMAINDER OF THE APPROVED RELIGIOUS FACILITY, THE REMAINING 33 APPROVED PARKING SPACES, AND THE SMALL PLAYGROUND AREA. THE SECOND PHASE WILL BE SUBSTANTIALLY CONSTRUCTED BY FEBRUARY, 2028.
- AN ALTERNATIVE COMPLIANCE PETITION (WP-24-034) WAS APPROVED ON OCTOBER 25, 2023 WITH RESPECT TO SECTIONS 16.156(a) AND 16.156(b) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO GRANT A 90-DAY EXTENSION TO THE DEADLINE DATE FOR THE COMPLETION OF THE DEVELOPER'S AGREEMENT, PAYMENT OF FEES AND SUBMISSION OF THE SITE DEVELOPMENT PLAN ORIGINALS FOR SIGNATURES. APPROVAL OF THIS ALTERNATIVE COMPLIANCE IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE DEVELOPER AGREEMENT AND PAYMENT OF FEES FOR THE SITE DEVELOPMENT PLAN (SDP-22-007) MUST BE COMPLETED ON OR BEFORE DECEMBER 2, 2023.
 - THE HEARINGS CHAIRMAN APPROVED A 3,896 SQUARE FOOT BUILDING FOR PHASE 1. HOWEVER, THE SDP SHOWS A 4,075 SQUARE FOOT BUILDING. THE CHIEF OF THE ZONING DIVISION CONSIDERED THIS MINOR INCREASE IN THE BUILDING SIZE A MINOR MODIFICATION BECAUSE THE LOCATION OF THE BUILDING DID NOT CHANGE.
 - ON ALL FUTURE PLAN SUBMISSIONS, PROVIDE A BRIEF DESCRIPTION OF ALTERNATIVE COMPLIANCE PETITION, WP-24-034, AS A GENERAL NOTE TO INCLUDE REQUEST(S), SECTION(S) OF THE REGULATIONS, ACTION AND DATE.
- THE HEARINGS CHAIRMAN APPROVED A 3,896 SQUARE FOOT BUILDING FOR PHASE 1. HOWEVER, THE SDP SHOWS A 4,075 SQUARE FOOT BUILDING. THE CHIEF OF THE ZONING DIVISION CONSIDERED THIS MINOR INCREASE IN THE BUILDING SIZE A MINOR MODIFICATION BECAUSE THE LOCATION OF THE BUILDING DID NOT CHANGE.

LOT/PARCEL#	FACILITY NAME & NUMBER	PRACTICE TYPE (QUALITY)	PUBLIC	PRIVATE	MAINTENANCE BY	NOTES
Parcel 106	SWM #1	M-6 Micro-Bioretentation		X	Owner	
Parcel 106	SWM #2	M-6 Micro-Bioretentation		X	Owner	
Parcel 106	SWM #3	M-6 Micro-Bioretentation		X	Owner	
Parcel 106	SWM #4	M-6 Micro-Bioretentation		X	Owner	

ADDRESS CHART					
BUILDING NO.	STREET ADDRESS				
1	10425 CLARKSVILLE PIKE, COLUMBIA, MD 21044				
PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	LOT/PARCEL NUMBER			
---	---	PARCEL "106"			
PLAT OR L/F	GRID NO.	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TR.
L17973/F.380	18	R-20	29	5TH	6055003

APPROVED : PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 Designed by: Michael Davis 2/12/2024
 COUNTY HEALTH OFFICER: HOWARD COUNTY HEALTH DEPARTMENT
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DEVELOPMENT AND ENGINEERING DIVISION: CHAD Edmondson 2/19/2024
 CHIEF, DIVISION OF PLANNING AND ZONING: Linda Eisenberg 2/19/2024
 DIRECTOR: DATE

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY, PLUS MOST SDA STANDARDS AND SPECIFICATIONS, IF APPLICABLE. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 - MISS UTILITY: 1-800-257-7777
 - VERIZON: 1-800-743-0033
 - BUREAU OF UTILITIES: 410-313-4800
 - AT&T: 1-800-252-1133
 - B.G.A.E. (CONSTRUCTION SERVICES): 410-637-8713
 - B.G.A.E. (EMERGENCY): 410-685-0123
 - STATE HIGHWAY ADMINISTRATION: 410-531-5533
 - COLUMBIA FIRELINE CO.: 410-795-1300
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR AND DEVELOPER OR A REPRESENTATIVE SHALL HAVE, ON THE JOB SITE, THE LATEST EDITION OF ALL APPLICABLE STANDARDS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV, S.H.A., SPECIFICATION BOOK, AND LATEST MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL.
- ANY DAMAGE TO PUBLIC RIGHT-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- TRAFFIC CONTROL DEVICES:
 - THE R1-1 SIGN AND THE STREET NAME SIGN (SNS) ASSEMBLY FOR THIS DEVELOPMENT MUST BE INSTALLED BEFORE THE BASE PAVING IS COMPLETED.
 - THE TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MUST BE FIELD APPROVED BY HOWARD COUNTY TRAFFIC DIVISION (410-313-2420) PRIOR TO THE INSTALLATION OF ANY OF THE TRAFFIC CONTROL DEVICES.
 - ALL TRAFFIC CONTROL DEVICES AND THEIR LOCATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUMUCD).
 - ALL SIGN POSTS USED FOR TRAFFIC CONTROL SIGNS INSTALLED IN THE COUNTY RIGHT OF WAY SHALL BE MOUNTED ON A 2" GALVANIZED STEEL, PERFORATED SQUARE TUBE POST (14 GAUGE) INSERTED IN TO A 2-1/2" GALVANIZED STEEL, PERFORATED SQUARE TUBE SLEEVE (12 GAUGE)-J LONG. THE ANCHOR SHALL NOT EXTEND MORE THAN TWO QUICK PUNCH HOLES ABOVE GROUND LEVEL. A GALVANIZED STEEL POLE CAP SHALL BE MOUNTED ON TOP OF EACH POST.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOIL TEST PRIOR TO CONSTRUCTION.
- THE COORDINATES AND ELEVATIONS SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM - NAD83(1991). HOWARD COUNTY MONUMENT NUMBERS 29IF AND 30DC WERE USED FOR THIS PROJECT.
- THE PROPERTY LINES SHOWN HEREON IS BASED ON A BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH 22, 2018.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD TOPOGRAPHICAL SURVEY WITH 2'-FOOT CONTOUR INTERVALS, PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JANUARY 25, 2018. OFFSITE AND SUPPLEMENTAL TOPOGRAPHY FROM HOWARD COUNTY GIS.
- GEOTECHNICAL TEST REPORT PREPARED BY VOGEL ENGINEERING + TIMMONS GROUP, DATED JULY 25, 2021.
- THE GEOTECHNICAL ENGINEER TO REFORM PAVING SECTION PRIOR TO CONSTRUCTION. REFER TO SHEET 04 FOR PAVING SECTIONS.
- ALL CURB AND GUTTER TO BE HOWARD COUNTY STANDARD DETAIL 3.01 UNLESS OTHERWISE NOTED.
- WHERE DRAINAGE FLOWS AWAY FROM CURB, CONTRACTOR TO REVERSE THE GUTTER PAN.
- ALL ELEVATIONS ARE TO FINISH/TOP OF CURB UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- CONTRACTOR RESPONSIBLE FOR CONSTRUCTING ALL HANDICAP RAMPS AND HANDICAP ACCESS IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
- ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3,500 P.S.I.
- ALL STORMDRAIN PIPE BEDDING IS TO BE CLASS "C", AS REQUIRED BY AGSD-180.
- ALL BUILDINGS TO HAVE ROOF LEADERS WHICH EMPTY INTO STORM DRAIN SYSTEM.
- THIS PROJECT IS SUBJECT TO COMPLIANCE WITH THE AMENDED FIFTH EDITION OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS. DEVELOPMENT OR CONSTRUCTION ON THIS PROPERTY MUST COMPLY WITH SETBACK AND BUFFER REGULATIONS IN EFFECT AT THE TIME OF SUBMISSION OF THE SITE DEVELOPMENT PLAN. ALTERNATIVE COMPLIANCE APPLICATION OR BUILDING/GRADING PERMIT APPLICATION.
- AFPO TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, DATED JUNE 16, 2022, AND WAS APPROVED ON JULY 21, 2022. SUMMARY OF FINDINGS FOR AFPO TRAFFIC ANALYSIS:
 - DATE OF REPORT: DATED AUGUST 23, 2021 & REVISED JUNE 16, 2022
 - DATE OF COUNTY(S): BETWEEN THE HOURS OF 10:00 AM TO 2:00 PM ON SUNDAY, AUGUST 1, 2021
 - REPORT SUBMITTED AS PART OF PLAN NUMBER: SDP-22-007
 - PROVIDE STATEMENT THAT SCHOOLS WERE IN SESSION ON THAT DATE(S)
 - SCHOOLS WERE NOT IN SESSION ON AUGUST 1, 2021
 - LIST INTERSECTIONS STUDIED, IDENTIFY JURISDICTION, AND LABEL LOS FOR THE HORIZON YEAR OF EACH INTERSECTION:
 - MD 108 (STATE JURISDICTION) AND CENTENNIAL LANE (COUNTY JURISDICTION), LOS "A" FOR 2025
 - PROVIDE A STATEMENT AS TO WHETHER MITIGATION IS REQUIRED AND OBTAIN THE METHOD OF MITIGATION/IN LIEU FEE:
 - THE RESULTS OF THE CAPACITY ANALYSES FOR THE STUDY INTERSECTIONS SHOW GOOD LEVEL OF SERVICE "A" CONDITIONS CAN BE MAINTAINED THROUGHOUT THE STUDY AREA DURING SUNDAY PEAK HOUR UNDER TOTAL PROJECTED TRAFFIC VOLUMES. THEREFORE, MITIGATION IS NOT REQUIRED FOR THE PROPOSED DEVELOPMENT OF THE NEW PATH REFORMED CHURCH.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN.
- THERE ARE NO WETLANDS/BUFFERS, STEEP SLOPES, FLOODPLAINS, OR STREAMS LOCATED WITHIN THE LIMIT OF DISTURBANCE.
- A SITE EVALUATION FOR THE PRESENCE OF WETLANDS AND STREAMS WAS PERFORMED BY ECO-DESIGN PROFESSIONALS, INC., DATED AUGUST 11, 2020. IT WAS DETERMINED THAT NO WETLANDS, STREAMS OR BUFFERS ARE PRESENT ON THE PROPERTY.
- NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE WETLANDS, STREAMS, OR OTHER REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
- IN ACCORDANCE WITH SECTION 16.120 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THIS PROJECT IS SUBJECT TO FOREST CONSERVATION. THE TOTAL AFFORESTATION REQUIREMENT OF 0.30 ACRES HAS BEEN FULFILLED THROUGH THE PURCHASE OF CREDITS FROM THE HMBL PROPERTY RETENTION BANK (SPP-05-132).
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL.
- FINANCIAL SURETY FOR THE PROPOSED LANDSCAPING AND VINYL FENCE HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR THIS SITE DEVELOPMENT PLAN IN THE AMOUNT OF \$49,090.00 FOR THE PROPOSED 45 SHADE TREES, 166 EVERGREEN TREES, 49 SHRUBS, AND 922 LF OF VINYL FENCE.
- ANY EXISTING STREET TREES DAMAGED OR DESTROYED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR.
- LANDSCAPING NOT PERMITTED WITHIN 7'-1/2' OF EACH SIDE OF THE FIRE DEPARTMENT CONNECTION. PROVIDE A CLEAR UNOBSTRUCTED ACCESS PATH TO THE FIRE DEPARTMENT CONNECTION. NFPA-1 13.1.4
- FIRE LINES SHOULD BE PROVIDED IN THIS SITE TO ALLOW EMERGENCY VEHICLE ACCESS. EITHER FIRE LANE SIGNAGE SHOULD BE INSTALLED, OR THE CURBS SHOULD BE PAINTED IN RED AND STEEPED TO IDENTIFY THE ROAD AS A FIRE LANE.
- A FIRE DEPARTMENT CONNECTION FOR FIRE PROTECTION SYSTEMS SHALL BE LOCATED:
 - ON THE SIDE OF THE STRUCTURE DISPLAYING THE ADDRESS (UNLESS OTHERWISE APPROVED BY THE AHJ) AND BE CLEARLY VISIBLE TO THE RESPONDING UNITS.
 - WITHIN 100 FT. OF A FIRE HYDRANT;
 - THE APPROPRIATE SIGN SHALL BE MOUNTED ON THE BUILDING'S WALL BETWEEN 8 AND 12 FEET ABOVE THE FIRE DEPARTMENT CONNECTION.
 - A FREE-STANDING FIRE DEPARTMENT CONNECTION SHALL HAVE THE SIGN MOUNTED ON A POLE DIRECTLY BEHIND THE CONNECTION APPROXIMATELY 6 FEET HIGH.
 - SIGNS SHALL HAVE A WHITE REFLECTIVE BACKGROUND WITH A RED REFLECTIVE BORDER, RED REFLECTIVE LETTERS AND A RED REFLECTIVE ARROW. THE BORDER SHALL HAVE A 3/8" STROKE. THE LETTERS SHALL BE 6" HIGH WITH A 1" STROKE. THE ARROW SHALL HAVE A STROKE NOT LESS THAN 2". THE OVERALL SIGN MEASUREMENTS SHALL BE 12" BY 18".
 - ANY OBSTRUCTION OR CONDITION THAT DETERS OR HINDERS ACCESS TO A FDC IS PROHIBITED. A MINIMUM CLEAR SPACE OF 15 FEET (7.5 FEET ON ALL SIDES) SHALL BE MAINTAINED.
- A KNOX BOX IS REQUIRED TO BE PLACED ON THE FRONT OF THE BUILDING. IT SHALL BE LOCATED TO THE RIGHT OF THE MAIN ENTRANCE AT A RANGE OF 4'-5" IN HEIGHT AND NO MORE THAN 6' LATEROFF FROM THE DOOR. ITS LOCATION IS SHOWN ON THESE PLANS. THE BOX SHALL BE ELECTRONICALLY SUPERSEDED TO NOTIFY THE OWNER THAT IT IS BEING ACCESS (INTEGRATED WITH THE FIRE ALARM SYSTEM). PRIOR TO GRABBING AND PLACING KNOX BOXES, IT IS RECOMMENDED THAT THE CONTRACTOR CONTACT THE OFFICE OF THE FIRE MARSHAL TO DETERMINE THE REQUIRED NUMBER AND PLACEMENT OF KNOX BOXES.
- THE PROPOSED BUILDING WILL HAVE AN INSECT METER SETTING, AND AN AUTOMATIC FIRE PROTECTION SPRINKLER SYSTEM.
- PUBLIC WATER AVAILABLE THROUGH CONTRACT NO. 127-W, PUBLIC SEWER AVAILABLE FOR THIS PROJECT THROUGH CONTRACT NO. 356-S.
- THERE ARE NO BURIAL GROUNDS, CEMETERIES, OR HISTORIC STRUCTURES LOCATED ON THIS PROPERTY.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- EXISTING CLARKSVILLE PIKE (MD 108) IS A STATE ROAD CLASSIFIED AS A MAJOR ARTERIAL.
- ALL EXTERIOR LIGHTING TO COMPLY WITH THE REQUIREMENTS FOUND IN ZONING SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
- TRASH AND RECYCLING COLLECTION TO BE PRIVATE.
- STORMWATER MANAGEMENT TO BE DESIGNED IN ACCORDANCE WITH THE 2007 MDC STORMWATER DESIGN MANUAL, CHAPTER 5, ENVIRONMENTAL SITE DESIGN. STORMWATER MANAGEMENT IS BEING PROVIDED FOR A LARGE MAJORITY OF THE IMPERVIOUS SURFACES. THE PRACTICES USED FOR STORMWATER MANAGEMENT FOR THIS PROJECT INCLUDES MICRO-BIORETENTION (M-6). ALL SWM FACILITIES TO BE PRIVATELY OWNED AND MAINTAINED.
- THE OFFICIAL PRE-SUBMISSION COMMUNITY MEETING FOR THIS PROJECT WAS HELD VIRTUALLY ON NOVEMBER 23, 2021 (REF: WP-22-037, NEW PATH REFORMED CHURCH).
- STREET LIGHT PLACEMENT AND THE TYPE OF FIXTURE AND POLE SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME III AND AS MODIFIED BY "GUIDELINES FOR STREET LIGHTS IN RESIDENTIAL DEVELOPMENTS (JUNE 1993)." A MINIMUM SPACING OF 20' SHALL BE MAINTAINED BETWEEN ANY STREETLIGHT AND ANY TREE.
- BA-19-031C SPECIAL EXCEPTION GRANTED FOR A RELIGIOUS FACILITY CONDITIONAL USE IN AN R-20 (RESIDENTIAL- SINGLE) ZONING DISTRICT WAS GRANTED FEBRUARY 26, 2020 SUBJECT TO:
 - THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE USES AS DESCRIBED IN THE PETITION AND DEPICTED ON THE CONDITIONAL USE PLAN (JUNE 2019) AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY.
 - PETITIONER SHALL COMPLY WITH ALL AGENCY COMMENTS.
 - LIGHTING SHALL BE RESIDENTIAL IN CHARACTER AND ORIENTED AWAY FROM AREA RESIDENCES AND IN COMPLIANCE WITH COUNTY LIGHTING REGULATIONS.
 - PETITIONER SHALL OBTAIN ALL REQUIRED PERMITS.
 - PETITIONER SHALL COMPLY WITH ALL FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS.
- THE PROJECT IS SUBJECT TO WP-23-029. ON JANUARY 24, 2023, THE DIRECTOR OF THE DEPARTMENT OF PLANNING AND ZONING, DIRECTOR OF THE RECREATION AND PARKS AND ADMINISTRATOR OF THE OFFICE OF COMMUNITY SUSTAINABILITY APPROVED AN ALTERNATIVE COMPLIANCE TO SECTION 16.120(c)(3) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO REMOVE A SPECIMEN TREES. APPROVAL IS SUBJECT TO THE FOLLOWING CONDITIONS:
 - THE ALTERNATIVE COMPLIANCE APPROVAL IS TO REMOVE EIGHT (8) SPECIMEN TREES AS DEPICTED ON THE EXHIBIT.
 - A MINIMUM OF 16 (SIXTEEN) NATIVE SHADE TREES WITH A 3" DBH SHALL BE PROVIDED ON-SITE AS MITIGATION FOR THE REMOVAL OF THE EIGHT (8) SPECIMEN TREES FROM THE PROPERTY. THE MITIGATION FOR THESE TREES MUST BE PROVIDED ON SDP-22-007 AND WILL BE BONDED AS PART OF THE LANDSCAPING SURETY.

BENCHMARKS

HOWARD COUNTY BENCHMARK 29F
N 571309.766 E 1345093.245 ELEV. 444.45

HOWARD COUNTY BENCHMARK 300C
N 571937.682 E 1349599.155 ELEV. 421.40

LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- EXISTING PAVING
- PROPOSED SIDEWALK
- PHASING LIMITS

VICINITY MAP

SCALE: 1"=200'
ADC MAP COORDINATE: 4935-A3

SITE DATA:

LOCATION: COLUMBIA, MD, TAX MAP 29, BLOCK 18, PARCEL 106
 5TH ELECTION DISTRICT
 PRESENT ZONING: R-20
 TOTAL PROJECT AREA: 77,145 SF OR 1.771 AC.
 MINIMUM LOT SIZE: 1.0 AC.
 DEED REFERENCE: L17973/F.380
 DEED FILE REFERENCES: BA 19-031C; EEP-21-003 & WP-23-029
 PROPOSED USE OF STRUCTURE: RELIGIOUS FACILITY
 A 2,387 SF SANCTUARY; A 2,158 SF FELLOWSHIP AREA, OFFICES & CLASSROOM SPACE W/IN THE 7,972 SF PROPOSED BUILDING
 19,286 SF OR 0.443 AC. (25% OF GROSS AREA)
 7,972 SF OR 0.183 AC. (10.3% OF GROSS AREA)
 34 FT.
 21.96 FT.
 39,360 SF OR 0.904 AC.
 37,385 SF OR 0.867 AC.
 LIMIT OF DISTURBED AREA (LOD): 78,036 SF OR 1.791 AC.
 0.00 AC.
 AREA OF WETLANDS & WETLAND BUFFERS: 0.00 AC.
 STREAMS AND THEIR BUFFERS WITHIN LOD: 0.00 AC.
 AREA OF ON-SITE 100 YEAR FLOODPLAIN: 0.00 AC.
 AREA OF EXISTING FOREST WITHIN LOD: 0.00 AC.
 AREA OF STEEP SLOPES 15% AND GREATER: 0.00 AC.
 AREA OF EXPOSURE SOILS: 0.00 AC.
 AREA MANAGED BY ESOW: 62,281 SF OR 1.430 AC.
 IMPERVIOUS AREA MANAGED BY ESOW: 34,839 SF OR 0.800 AC.
 GREEN AREA MANAGED BY ESOW: 27,442 SF OR 0.630 AC.
 AREA UNMANAGED BY ESOW: 14,864 SF OR 0.341 AC.
 CUT: 8,444 CY FILL: 185 CY

PARKING TABULATION

REQUIRED PARKING:

ASSEMBLY AREA (SANCTUARY + FELLOWSHIP)	4,545 SF
SANCTUARY	2,387 SF
FELLOWSHIP	2,158 SF
10 SPACES PER 1,000 SF OF ASSEMBLY AREA	46 SPACES
ACCESSIBLE PARKING SPACES REQUIRED	3 SPACES (1 VAN)

PROVIDED PARKING:

STANDARD PARKING (8' X 18')	67 SPACES
ACCESSIBLE SPACES PROVIDED	4 SPACES (1 VAN)
TOTAL PARKING PROVIDED	71 SPACES

SHEET INDEX

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SITE DETAILS	4 OF 13
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SEDIMENT AND EROSION CONTROL NOTES & DETAILS	6 OF 13
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OWNER/DEVELOPER

NEW PATH REFORMED CHURCH INC.
 8074 TROTTERS CHASE
 ELLICOTT CITY, MD 21043
 410-829-8829
 CONTACT: TAEBOCK LEE
 EMAIL: nprchurch@gmail.com

SITE DEVELOPMENT PLAN

COVER SHEET

NEW PATH REFORMED CHURCH
 10425 CLARKSVILLE PIKE (MD RTE 108)
 ELLICOTT CITY, MD ZONED: R-20
 PARCEL 106
 HOWARD COUNTY, MARYLAND

L 20171 / F. 20
 TAX MAP 29 BLOCK 18
 5TH ELECTION DISTRICT

VOGEL ENGINEERING

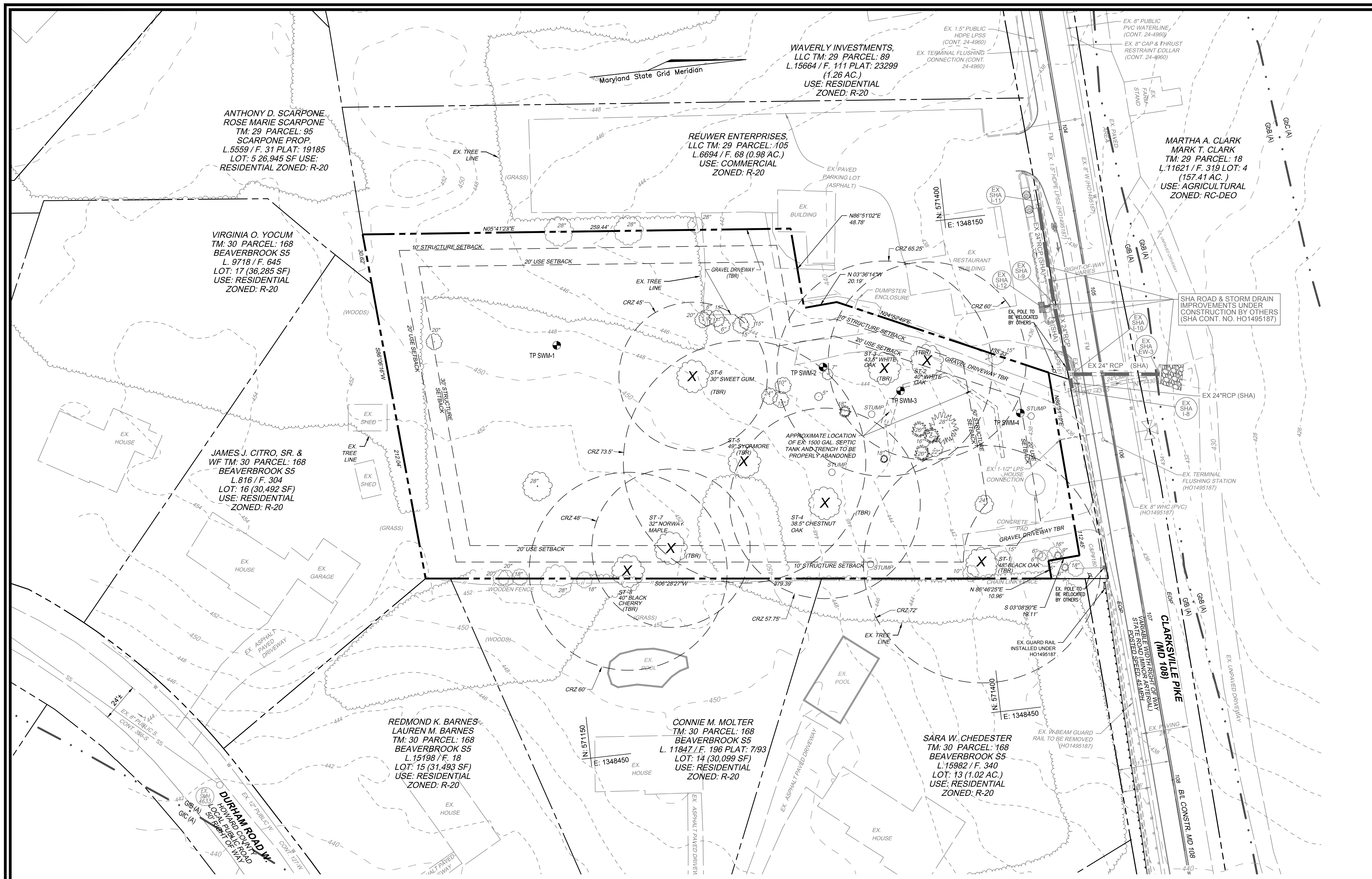
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

TIMMONS GROUP

PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. EXPIRATION DATE: 05-27-2024

DESIGN BY: RHV/ACS
 DRAWN BY: ACS
 CHECKED BY: RHV
 DATE: JANUARY 2024
 SCALE: AS SHOWN
 W.C. NO.: 41079

1 SHEET OF 13



EXISTING UTILITIES NOTE:
 EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN FIELD FROM EXISTING SITE DEVELOPMENT PLANS, SURVEYS, PUBLIC WATER AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTORS INFORMATION ONLY.
 CONTRACTOR SHALL TEST PIT TO VERIFY EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES. TO MAINTAIN UNINTERRUPTED SERVICE AND TO PROVIDE REQUIRED CLEARANCES FOR ALL PROPOSED UTILITIES. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

EXISTING WELL & SEPTIC NOTE:
 THE EXISTING WELL AND SEPTIC FROM THE PREVIOUS PROPERTY'S RESIDENTIAL STRUCTURE, BACK IN 2010, NEEDS TO BE ABANDONED.
 A. CONTRACTOR TO VERIFY LOCATION OF EXISTING WELL PRIOR TO CONSTRUCTION. WELL WILL NEED TO BE ABANDONED BY A MASTER WELL DRILLER, AND AN ABANDONMENT REPORT MUST BE SUBMITTED TO THE HEALTH DEPARTMENT. THE EXISTING LOCATION OF THE WELL COULD NOT BE DETERMINED AT THE TIME OF THIS SDP.
 B. THE PREVIOUS SEPTIC, SHOWN PER AVAILABLE HEALTH DEPARTMENT RECORDS, TO BE PROPERLY ABANDONED.

LEGEND:

---	PROPERTY LINE
---	RIGHT-OF-WAY LINE
---	ADJACENT PROPERTY LINE
---	EXISTING PAVING
---	EXISTING CONC. CURB & GUTTER (INSTALLED UNDER HO1495187)
---	EXISTING 10' CONTOUR
---	EXISTING 2' CONTOUR
---	SOILS
---	EXISTING TREELINE
---	EXISTING OVERHEAD LINE
---	EXISTING MAILBOX
---	EXISTING JUNCTION BOX
---	EXISTING SIGN
---	EXISTING UTILITY POLE
---	EXISTING STORM DRAIN
---	EXISTING STORM DRAIN (INSTALLED UNDER HO1495187)
X	EXISTING SPECIMEN TREE TO BE REMOVED
X	EXISTING SPECIMEN TREE CRITICAL ROOT ZONE
●	TEST PIT LOCATION

OWNER/DEVELOPER
 NEW PATH REFORMED CHURCH INC.
 8074 TROTTERS CHASE
 ELLICOTT CITY, MD 21043
 410-829-8829
 CONTACT: TAEBOX LEE
 EMAIL: nprchurch@gmail.com

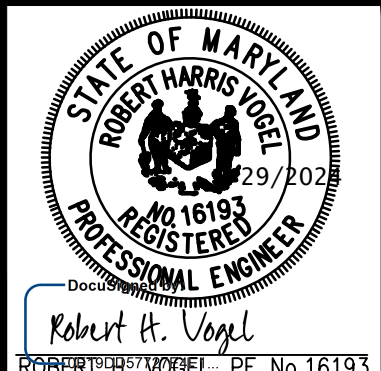
NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
EXISTING CONDITIONS & DEMOLITION PLAN

NEW PATH REFORMED CHURCH
 10425 CLARKSVILLE PIKE (MD RTE 108)
 ELLICOTT CITY, MD

L. 20171 / F. 20 ZONED: R-20
 TAX MAP 29 BLOCK 18 PARCEL 106
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
 +
TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com



PROFESSIONAL CERTIFICATE
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 02-27-2024

DESIGN BY: RHW/ACS
 DRAWN BY: ACS
 CHECKED BY: RHW
 DATE: JANUARY 2024
 SCALE: AS SHOWN
 W.O. NO.: 41079

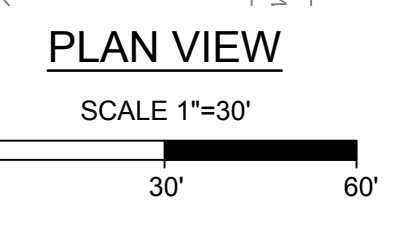
MAPPED SOILS TYPES - HOWARD COUNTY, MARYLAND

SYMBOL	NAME/DESCRIPTION	GROUP	HYDRIC	Kw RANGE	HIGHLY ERODIBLE
GB	GLAUSTONE-URBAN LAND COMPLEX, 0 TO 8% SLOPES	A	NO	0.28	NO

NOTE:
 TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, AND HOWARD COUNTY SOIL CONSERVATION DISTRICT WEBSITE DOCUMENTS
 HTS://WWW.HOWARDSCD.ORG/DOCUMENTS
 HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR, K, GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

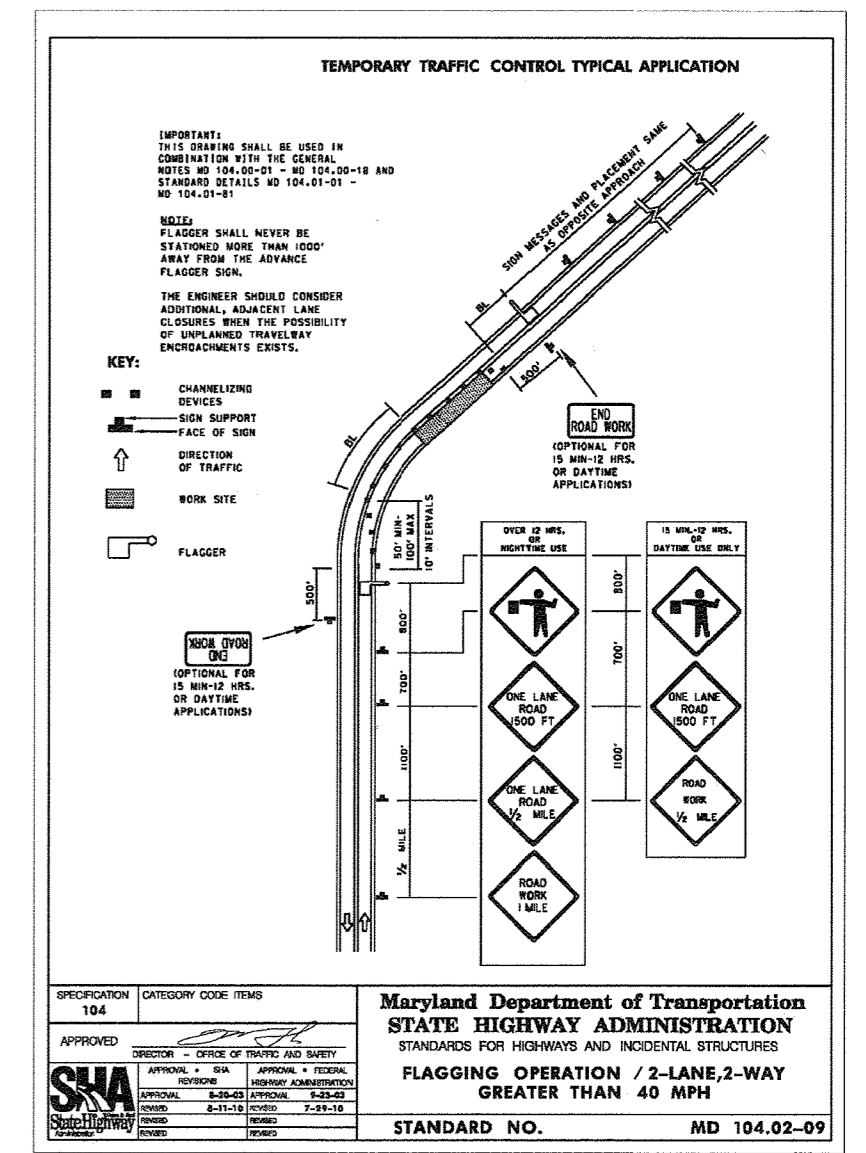
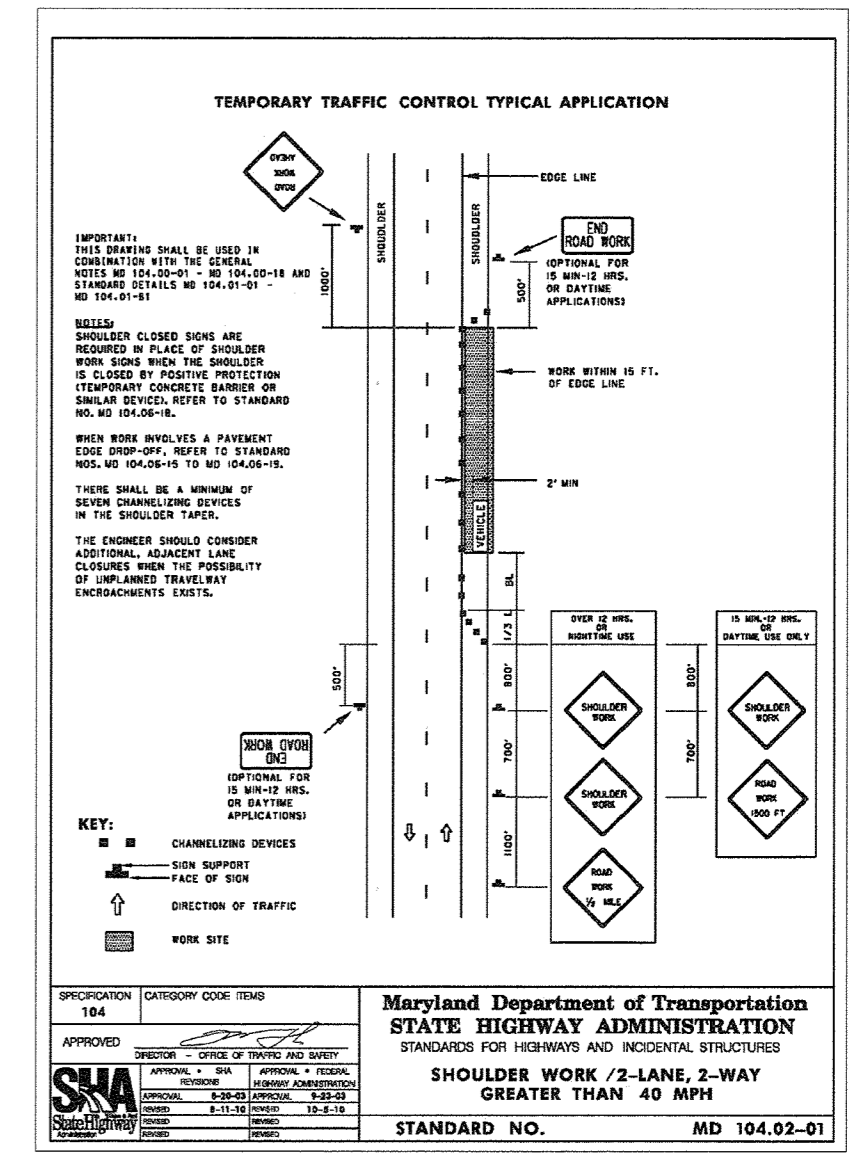
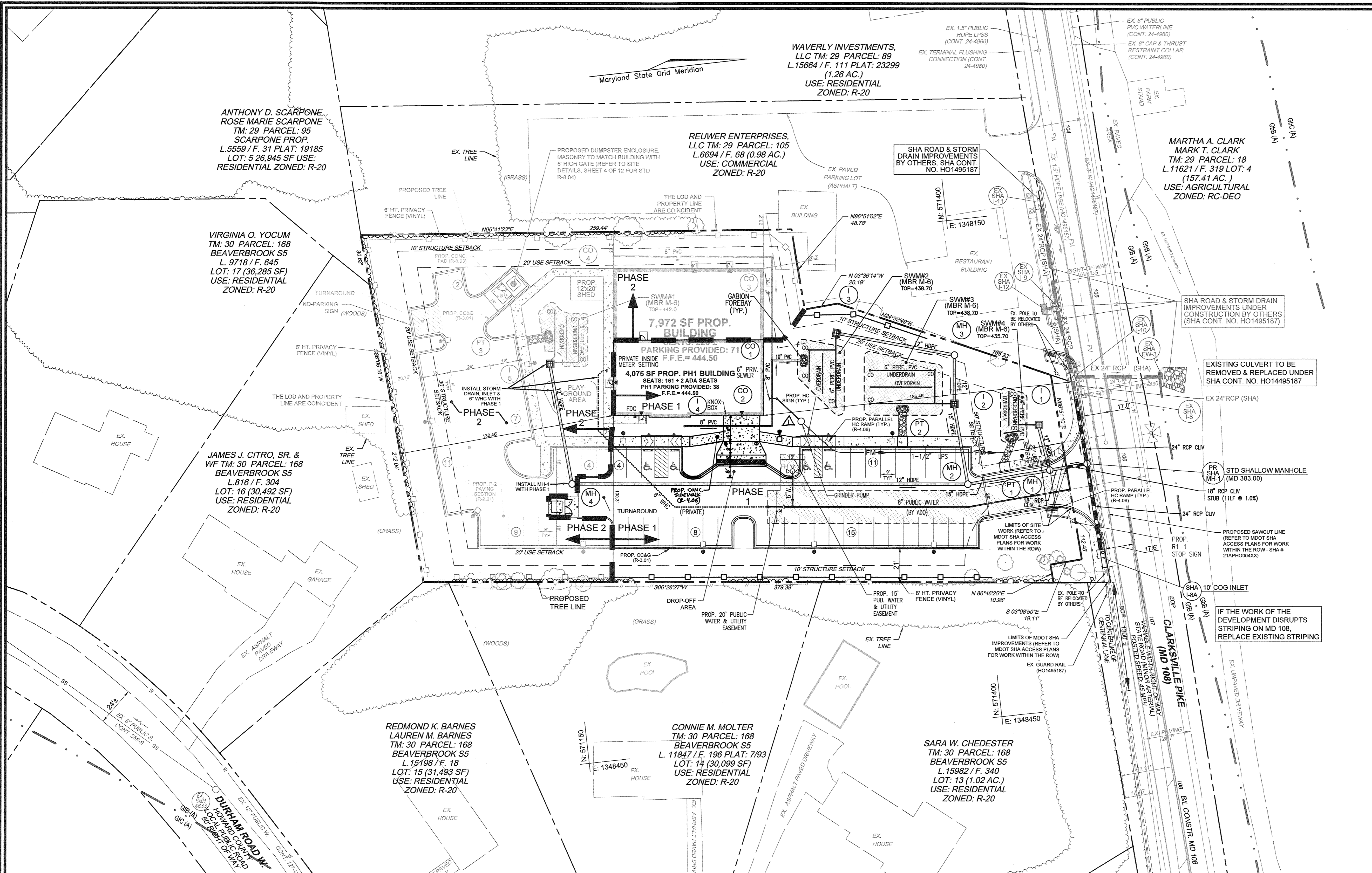
2/19/2024
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DIRECTOR



SPECIMEN TREE CHART

KEY (#)	SPECIES	SIZE (IN. DBH)	CRZ (FEET RADIUS)	COMMENTS	TO BE REMOVED
1	BLACK OAK	48	72	POOR TO FAIR, DECAY IN LOWER TRUNK	TO BE REMOVED
2	WHITE OAK	40	60	POOR, SOME DIEBACK, LIMITED CROWN	TO BE REMOVED
3	WHITE OAK	43.5	65.25	GOOD TO FAIR CONDITION	TO BE REMOVED
4	CHESTNUT OAK	38.5	57.75	GOOD CONDITION, LEANING CROWN	TO BE REMOVED
5	SYCAMORE	49	73.5	GOOD CONDITION, VINE COVER	TO BE REMOVED
6	SWEET GUM	30	45	GOOD CONDITION	TO BE REMOVED
7	NORWAY MAPLE	32	48	POOR, STORM DAMAGE	TO BE REMOVED
8	BLACK CHERRY	40*	60	POOR, MULTI-STEMMED ABOVE BH, NOTABLE ROT	TO BE REMOVED

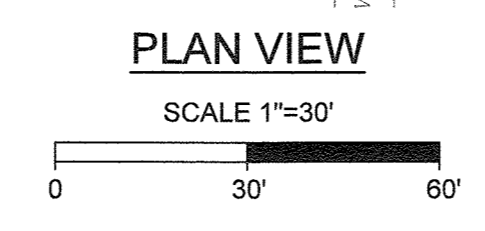
* MEASURED MULTI-STEM TREE AT 18" FROM GROUND



CLARKSVILLE PIKE TRAFFIC CONTROL DETAILS
ALL WORK WITHIN THE CLARKSVILLE PIKE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE STANDARD MARYLAND STATE HIGHWAY ADMINISTRATION DETAILS: MD 104.02-01 & MD 104.02-09 OR AS DIRECTED BY THE HOWARD COUNTY - TRAFFIC ENGINEERING DIVISION.

OWNER/DEVELOPER
NEW PATH REFORMED CHURCH INC.
8074 TROTTERS CHASE
ELLCOTT CITY, MD 21043
410-828-8829
CONTACT: TAEBOK LEE
EMAIL: nprchurch@gmail.com

EXISTING UTILITIES NOTE:
EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM EXISTING SITE DEVELOPMENT PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER EXTENSION PLANS AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION ONLY.
CONTRACTOR SHALL TEST PIT TO VERIFY EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES, TO MAINTAIN UNINTERRUPTED SERVICE AND TO PROVIDE REQUIRED CLEARANCES FOR ALL PROPOSED UTILITIES. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.



LEGEND:

	PROPERTY LINE		PROPOSED CONC. SIDEWALK
	RIGHT-OF-WAY LINE		PROPOSED MICRO-BIORETENTION
	ADJACENT PROPERTY LINE		PROPOSED PUBLIC WATER & UTILITY EASEMENT
	EXISTING PAVING		EXISTING STORM DRAIN
	SOILS		EXISTING STORM DRAIN (INSTALLED UNDER HO1495187)
	EXISTING TREE LINE		PROPOSED STORM DRAIN (BY DEVELOPER)
	EXISTING OVERHEAD LINE		PROPOSED STORM DRAIN (BY DEVELOPER UNDER MDOT SHA ACCESS PERMIT)
	EXISTING MAILBOX		PHASING LIMITS
	EXISTING JUNCTION BOX		
	EXISTING SIGN		
	EXISTING UTILITY POLE		
	EXISTING CONC. CURB & GUTTER (INSTALLED UNDER HO1495187)		
	PROPOSED CURB & GUTTER		
	PROPOSED PRIVACY FENCE		
	PROPOSED TREE LINE		
	PROPOSED LIGHT POLE		
	PROPOSED BUILDING ACCESS		

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division: *Chris Edmondson* 2/19/2024
Chief, Division of Planning & Development: *Yvonne Ewing* 2/19/2024
Director: *Yvonne Ewing* 2/19/2024

REVISION PLAN FOR PLOT OFF AREA TO BE COMPLIANT WITH ADA REQUIREMENTS 5-7-24
NO. REVISION DATE

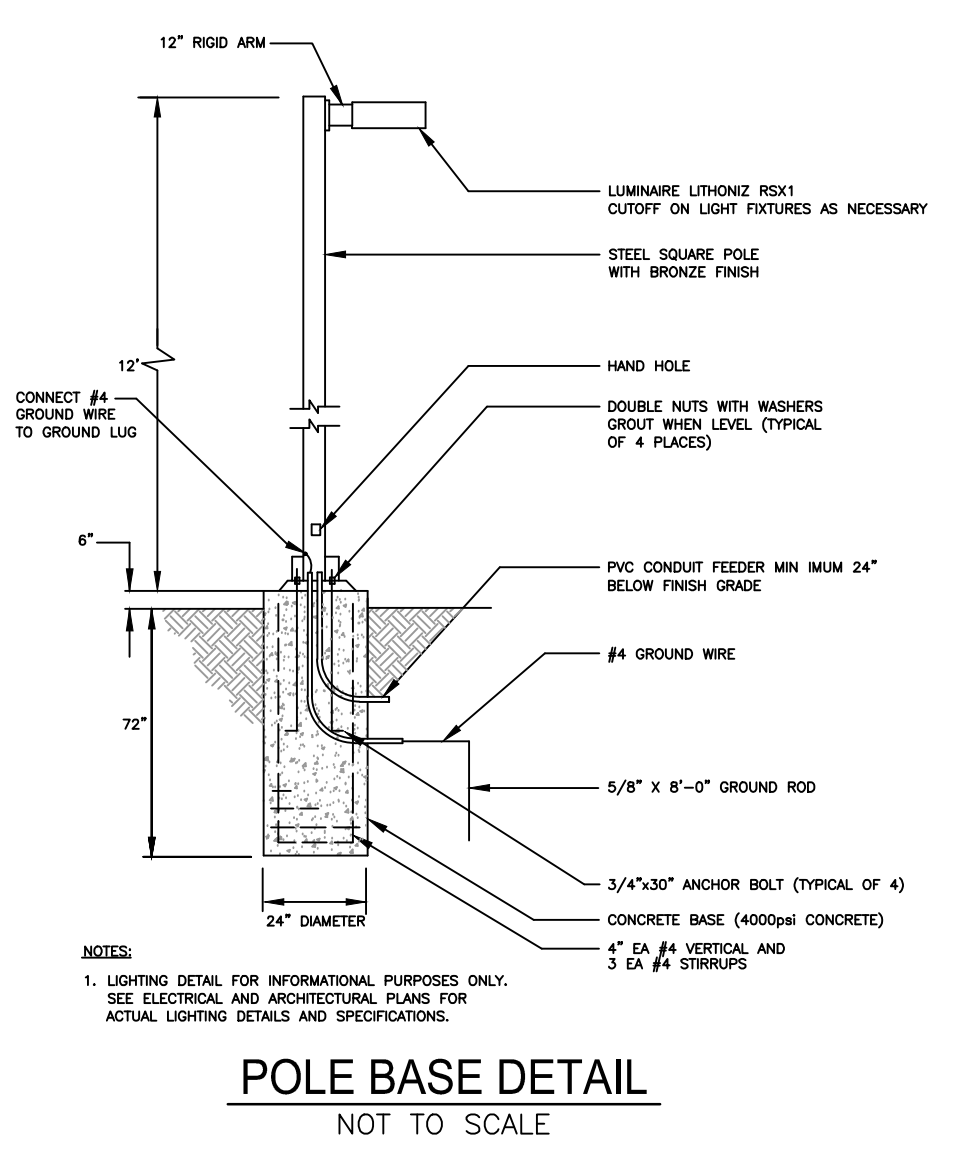
SITE DEVELOPMENT PLAN
SITE LAYOUT PLAN
NEW PATH REFORMED CHURCH
10425 CLARKSVILLE PIKE (MD RTE 108)
ELLCOTT CITY, MD
ZONED: R-20 PARCEL: 108
TAX MAP 29 BLOCK 18 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

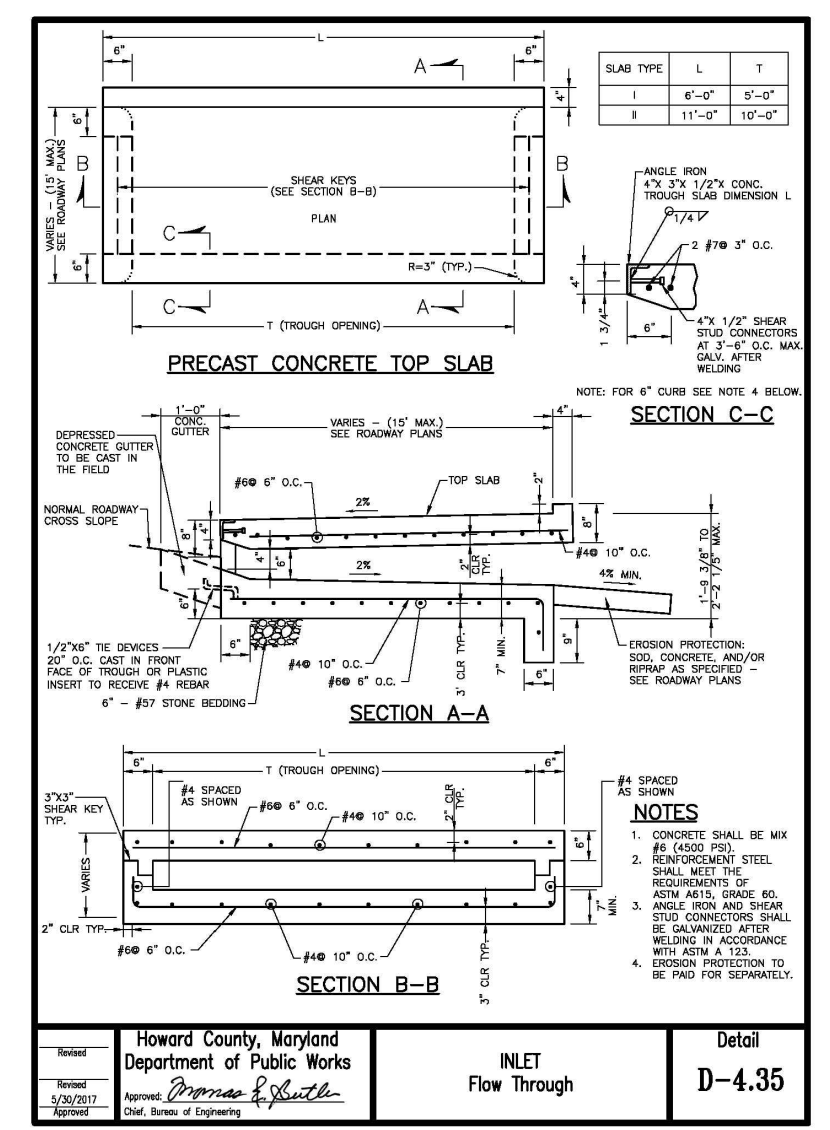
PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 18183 EXPIRATION DATE: 09-27-2024

DESIGN BY: RHW/ACS
DRAWN BY: ACS
CHECKED BY: RHW
DATE: JANUARY 2024
SCALE: AS SHOWN
W.O. NO.: 41079

3 SHEET OF 13

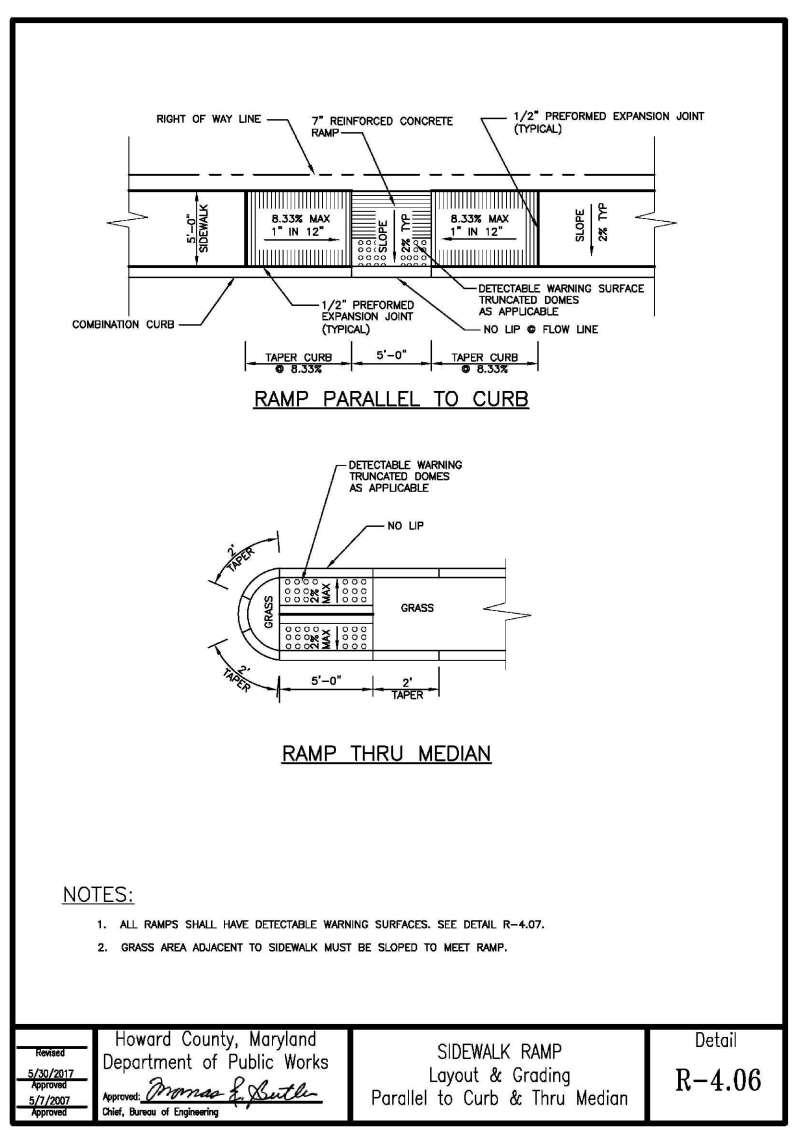


POLE BASE DETAIL
NOT TO SCALE



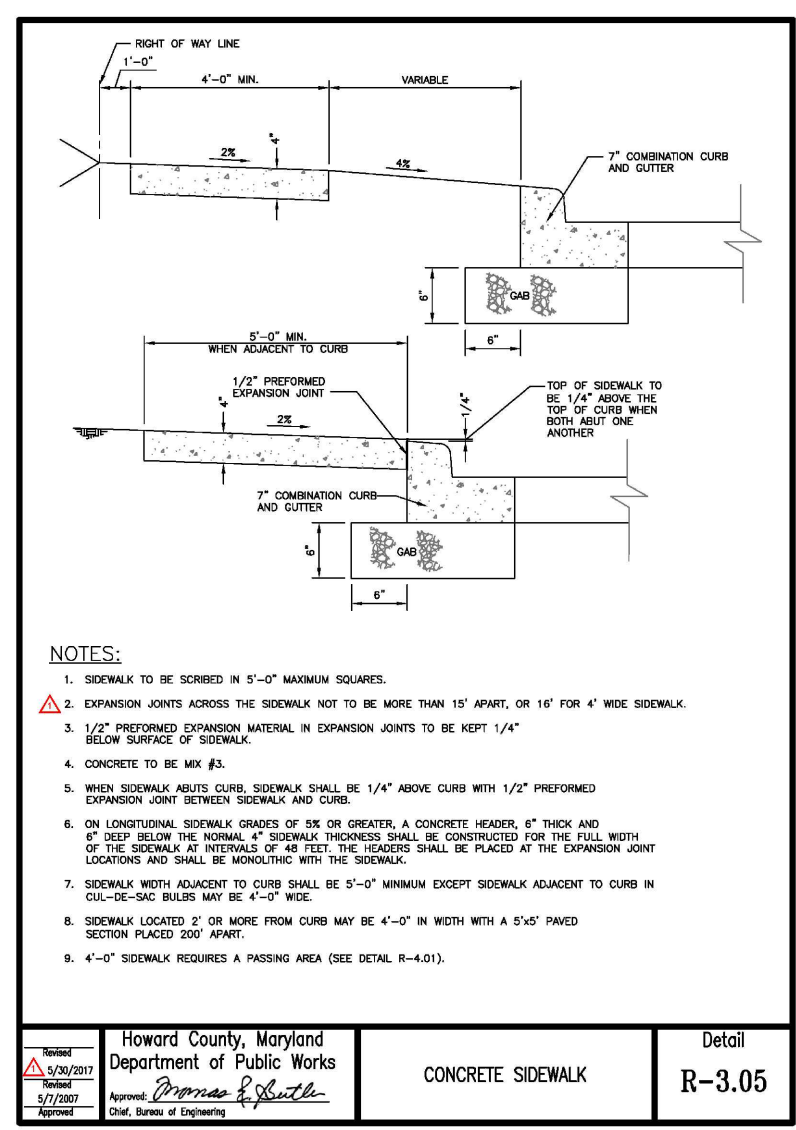
Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

INLET Flow Through
Detail
D-4.35



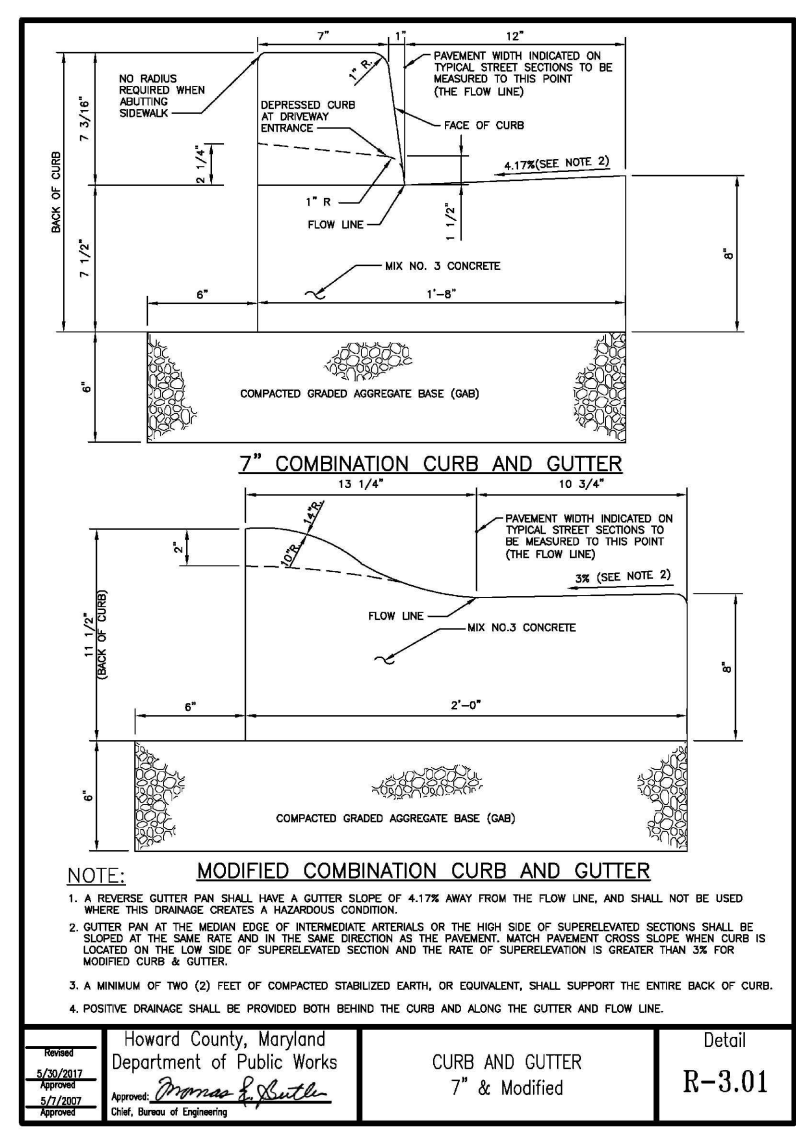
Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

SIDWALK RAMP Layout & Grading Parallel to Curb & Thru Median
Detail
R-4.06



Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

CONCRETE SIDEWALK
Detail
R-3.05



Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

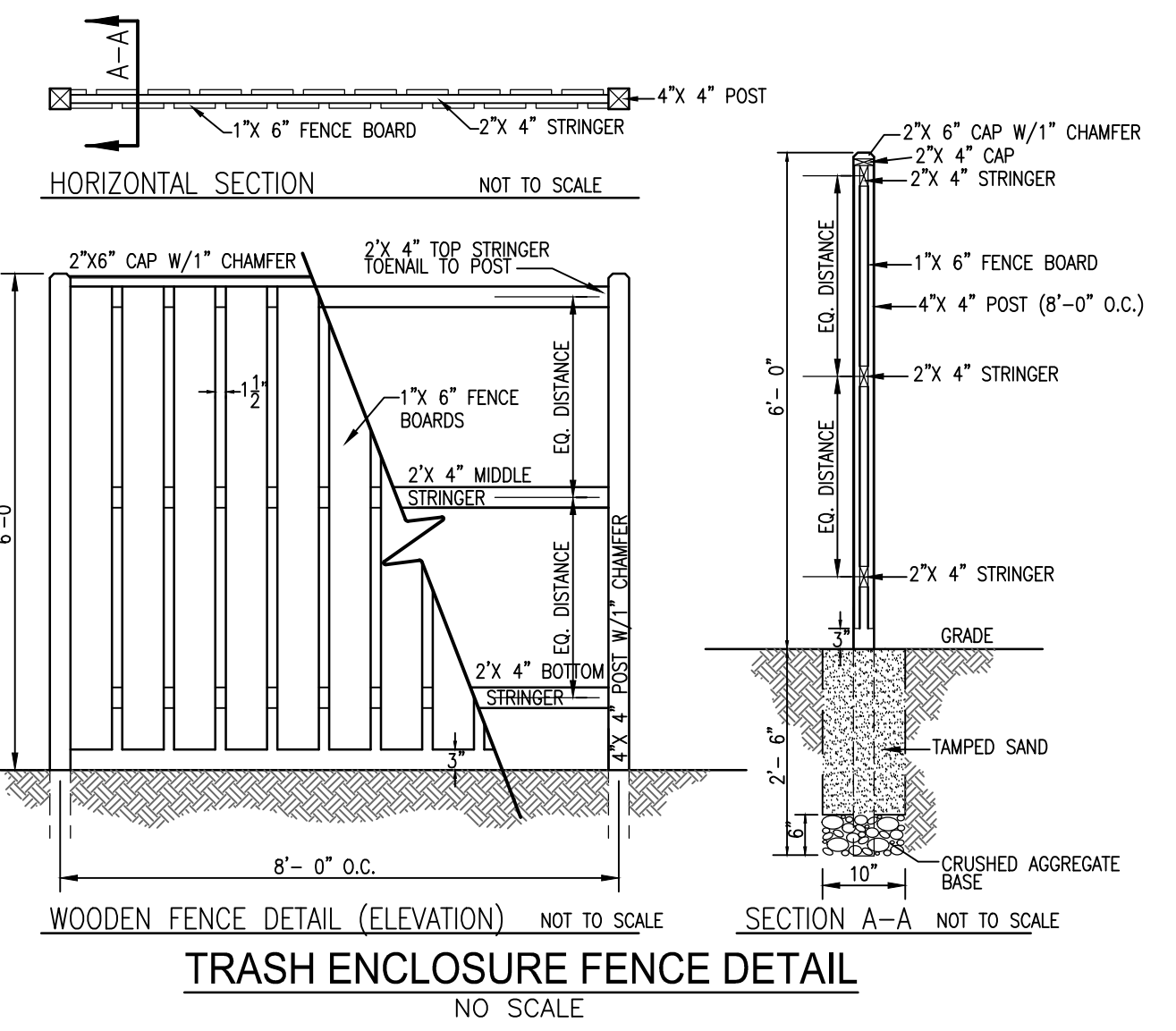
CURB AND GUTTER 7" & Modified
Detail
R-3.01

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	CALIFORNIA BARRING RATIO (CORS)						
		3 TO 48"	48 TO 36"	36 TO 24"	24 TO 18"	18 TO 12"	12 TO 6"	6 TO 0"
P-1	PAVED SIDEWALK, RESIDENTIAL AND NON-RESIDENTIAL, WITH NO WIRE	BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	1.0
		BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	1.0
P-2	PAVED SIDEWALK, RESIDENTIAL AND NON-RESIDENTIAL, WITH NO WIRE	BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	
		BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	
P-3	PAVED SIDEWALK, RESIDENTIAL AND NON-RESIDENTIAL, WITH NO WIRE	BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	
		BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	
P-4	PAVED SIDEWALK, RESIDENTIAL AND NON-RESIDENTIAL, WITH NO WIRE	BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	
		BARREN ASPHALT W/ FINISH SURFACE	1.0	1.0	1.0	1.0	1.0	

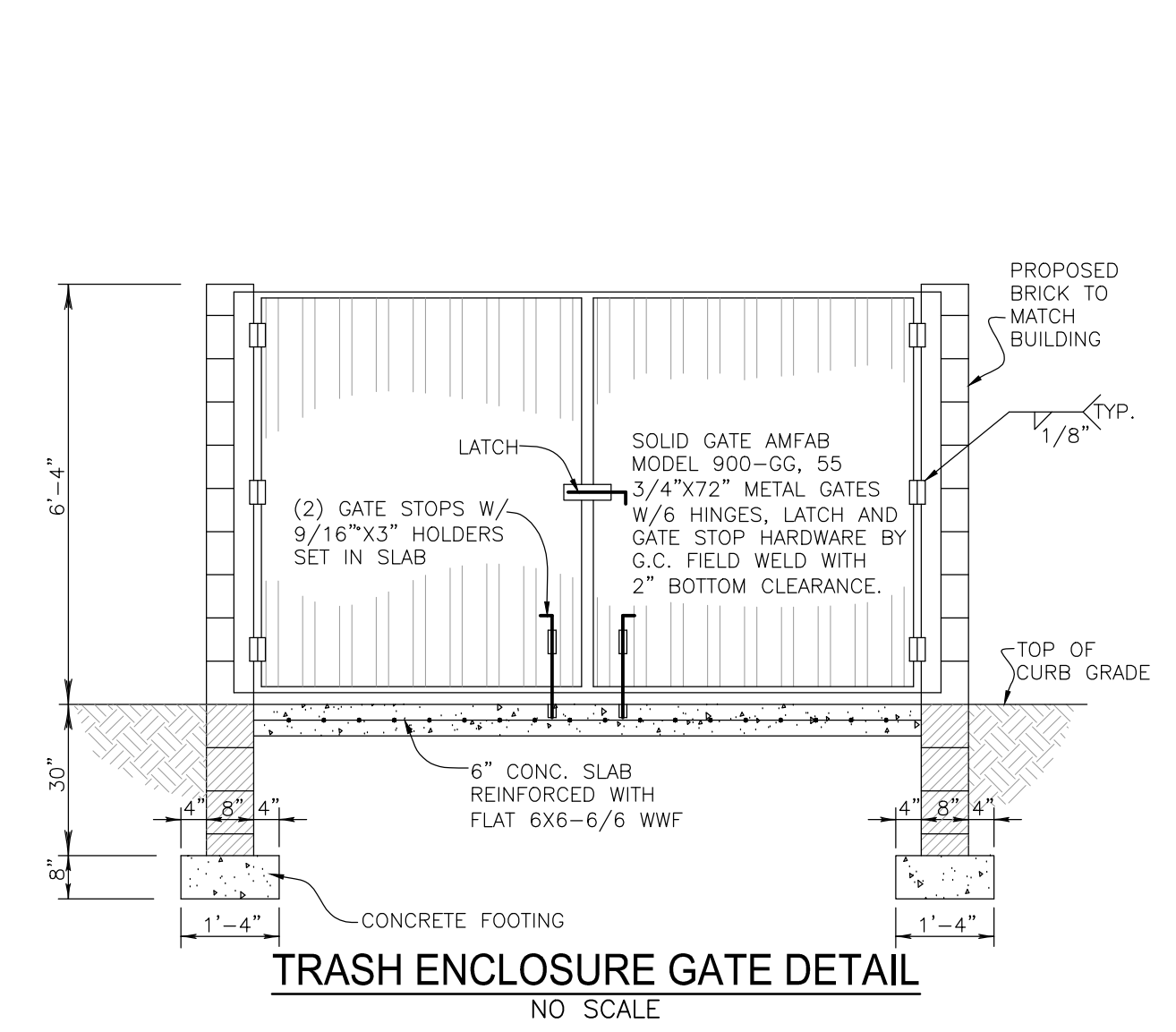
NOTES:
1. HEAVY TRUCKS ARE NOTED AS TRUCKS WITH 20,000 LB. WEIGHTS INCLUDING TRUCK WEIGHTS.
2. COMPACTED GRANULAR SUBGRADE SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 12" TO 18" IN 4" LIFT.
3. GRANULAR SUBGRADE SHALL BE PLACED AND COMPACTED IN 4" TO 6" LIFT WITH A MINIMUM OF 95% RELATIVE DENSITY.
4. ALL EXISTING UTILITIES SHALL BE DELETED FROM THE PLAN AND RELOCATED TO THE SIDE OF THE ROADWAY.
5. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE FIELD SURVEY AND THE INFORMATION PROVIDED HEREON, THE FIELD SURVEY SHALL BE THE GOVERNING DOCUMENT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

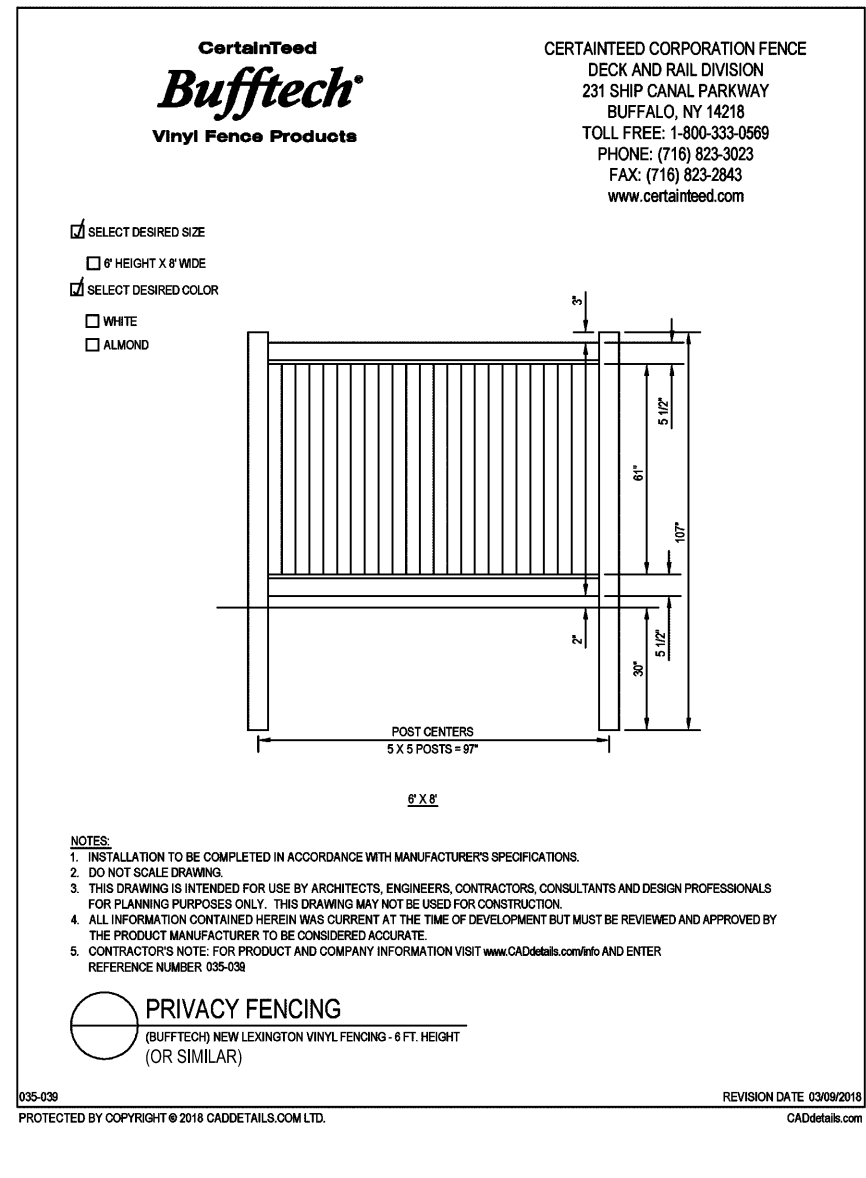
PAVING SECTIONS P-1 to P-4
Detail
R-2.01



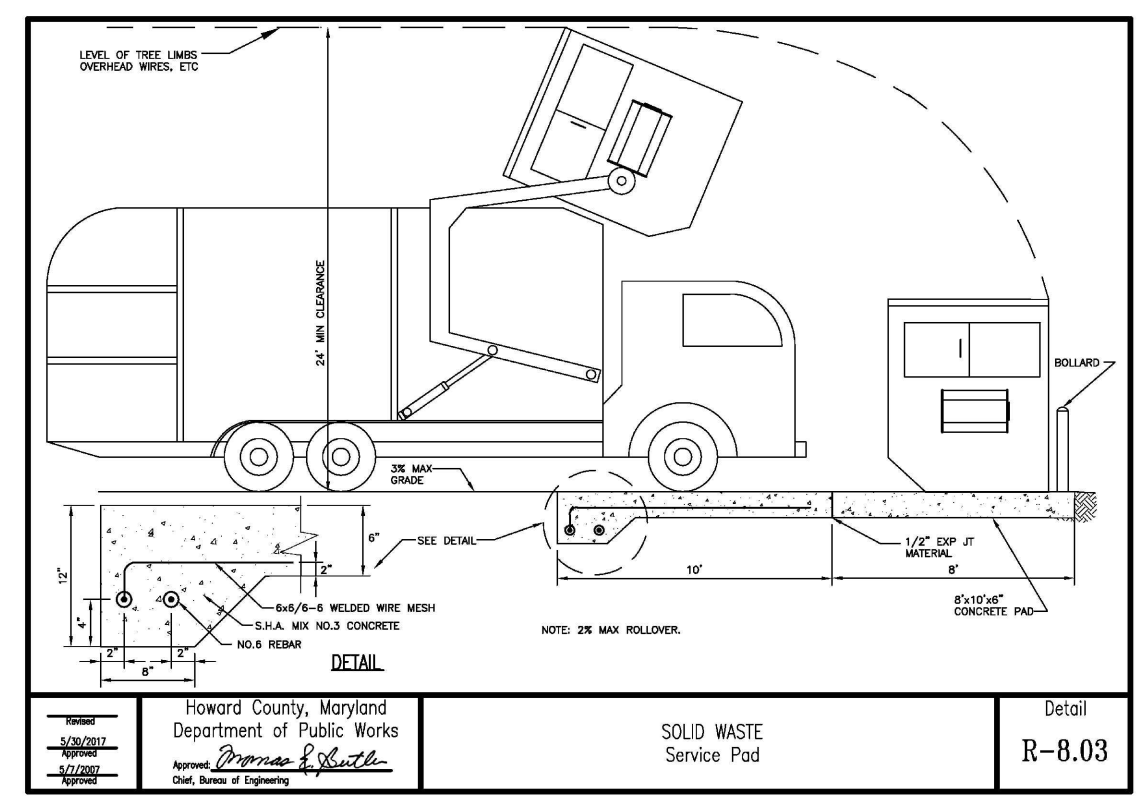
WOODEN FENCE DETAIL (ELEVATION) NOT TO SCALE
TRASH ENCLOSURE FENCE DETAIL NO SCALE



TRASH ENCLOSURE GATE DETAIL
NO SCALE

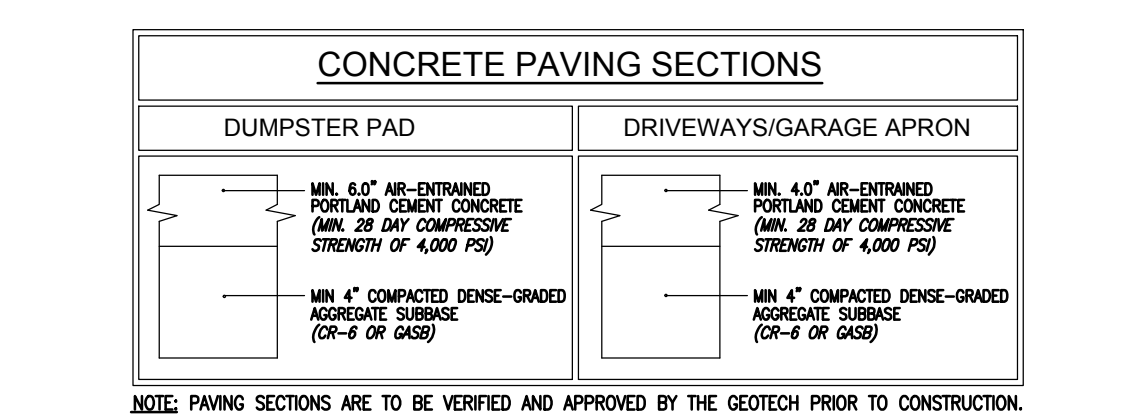


PRIVACY FENCING
PROTECTED BY COPYRIGHT © 2014 CERTIFIED VINYL PRODUCTS

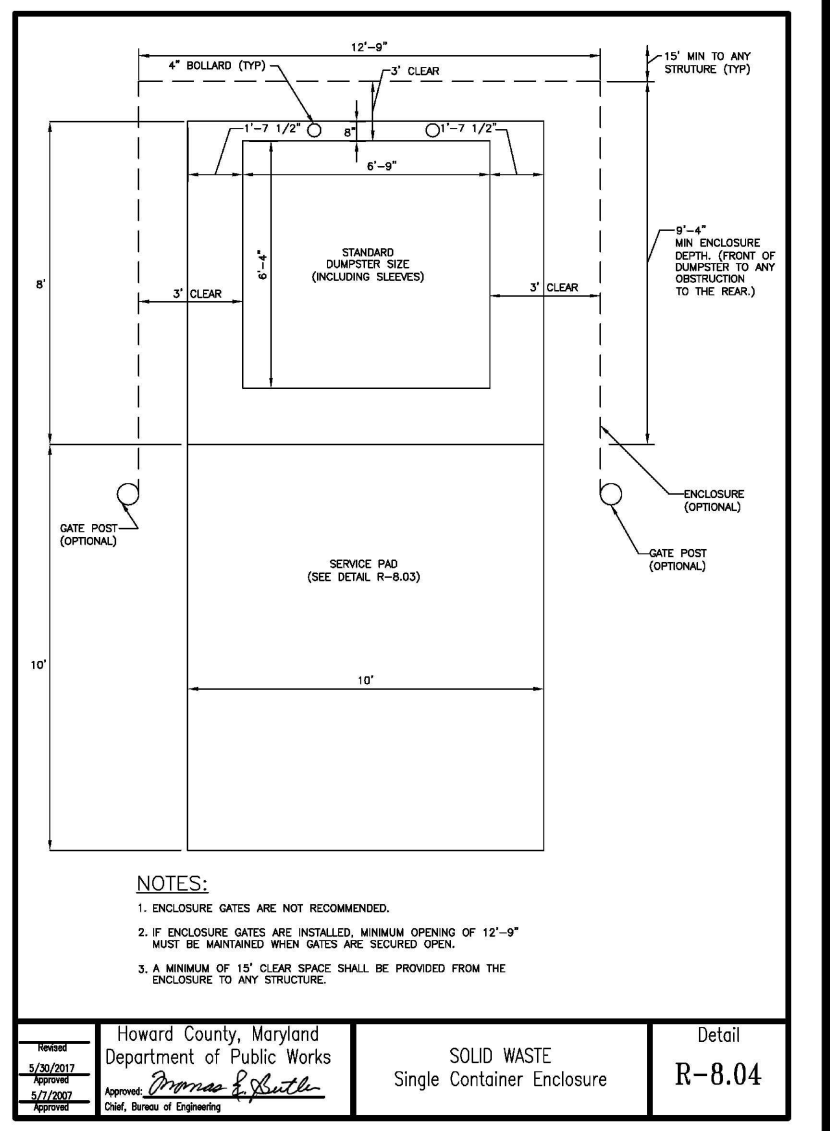


Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

SOLID WASTE Service Pad
Detail
R-8.03

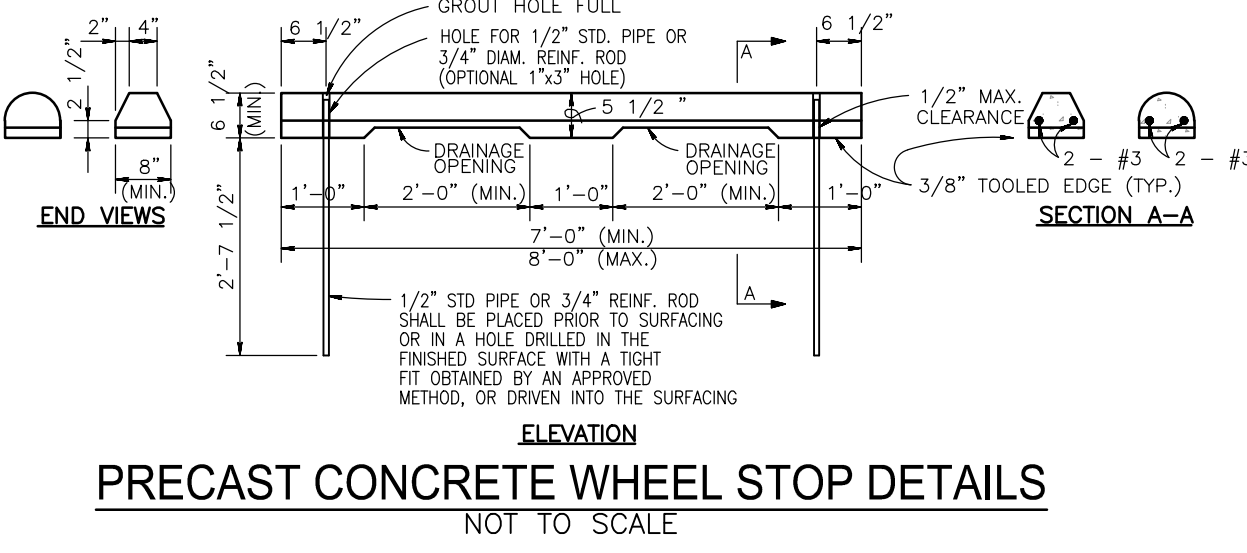


CONCRETE PAVING SECTIONS
NOTE: PAVING SECTIONS ARE TO BE VERIFIED AND APPROVED BY THE GEOTECH PRIOR TO CONSTRUCTION.

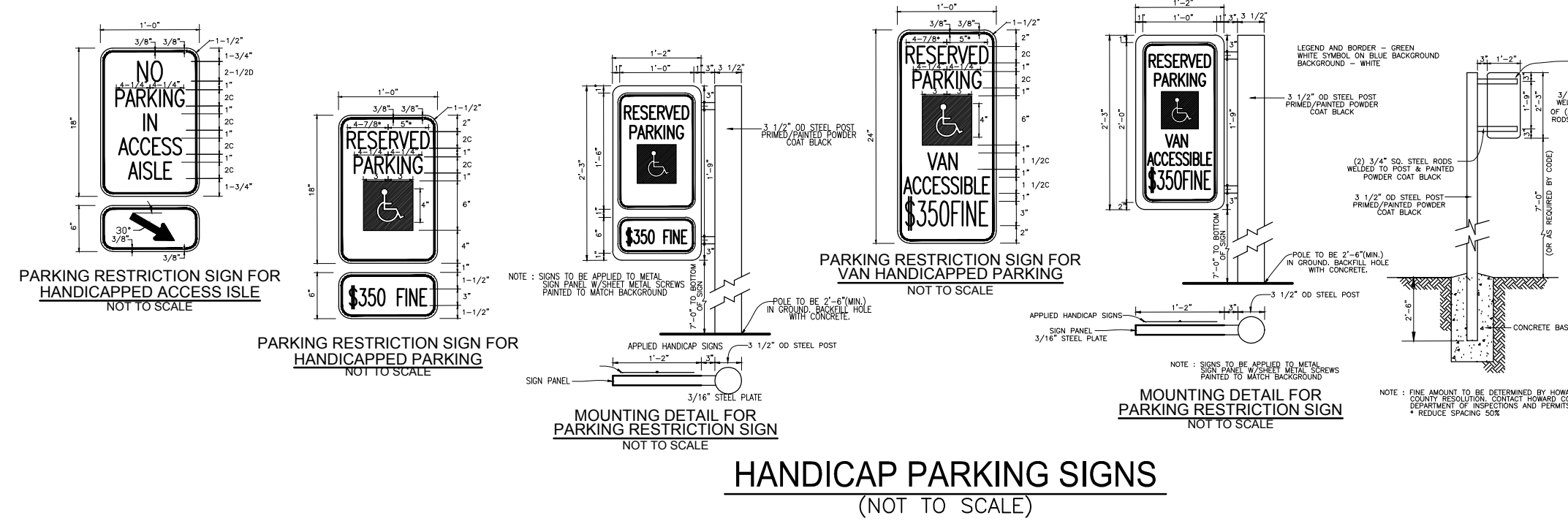


Howard County, Maryland
Department of Public Works
Name: *Priscilla E. Smith*
Date: 1/2/2024

SOLID WASTE Single Container Enclosure
Detail
R-8.04



PRECAST CONCRETE WHEEL STOP DETAILS
NOT TO SCALE



HANDICAP PARKING SIGNS (NOT TO SCALE)

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by: <i>Cliff Edmondson</i>	2/19/2024
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	2/12/2024
CHIEF, DIVISION OF PLANNING & DEVELOPMENT	DATE
<i>[Signature]</i>	2/19/2024
DIRECTOR	DATE

OWNER/DEVELOPER
NEW PATH REFORMED CHURCH INC.
8074 TROTTERS CHASE
ELLCOTT CITY, MD 21043
410-829-8829
CONTACT: TAEBOX LEE
EMAIL: nprchurch@gmail.com

SITE DEVELOPMENT PLAN
SITE DETAILS
NEW PATH REFORMED CHURCH
10425 CLARKSVILLE PIKE (MD RTE 108)
ELLCOTT CITY, MD
L 20171 / F 20
TAX MAP 29 BLOCK 18
5TH ELECTION DISTRICT

ZONED: R-20
PARCEL 106
HOWARD COUNTY, MARYLAND

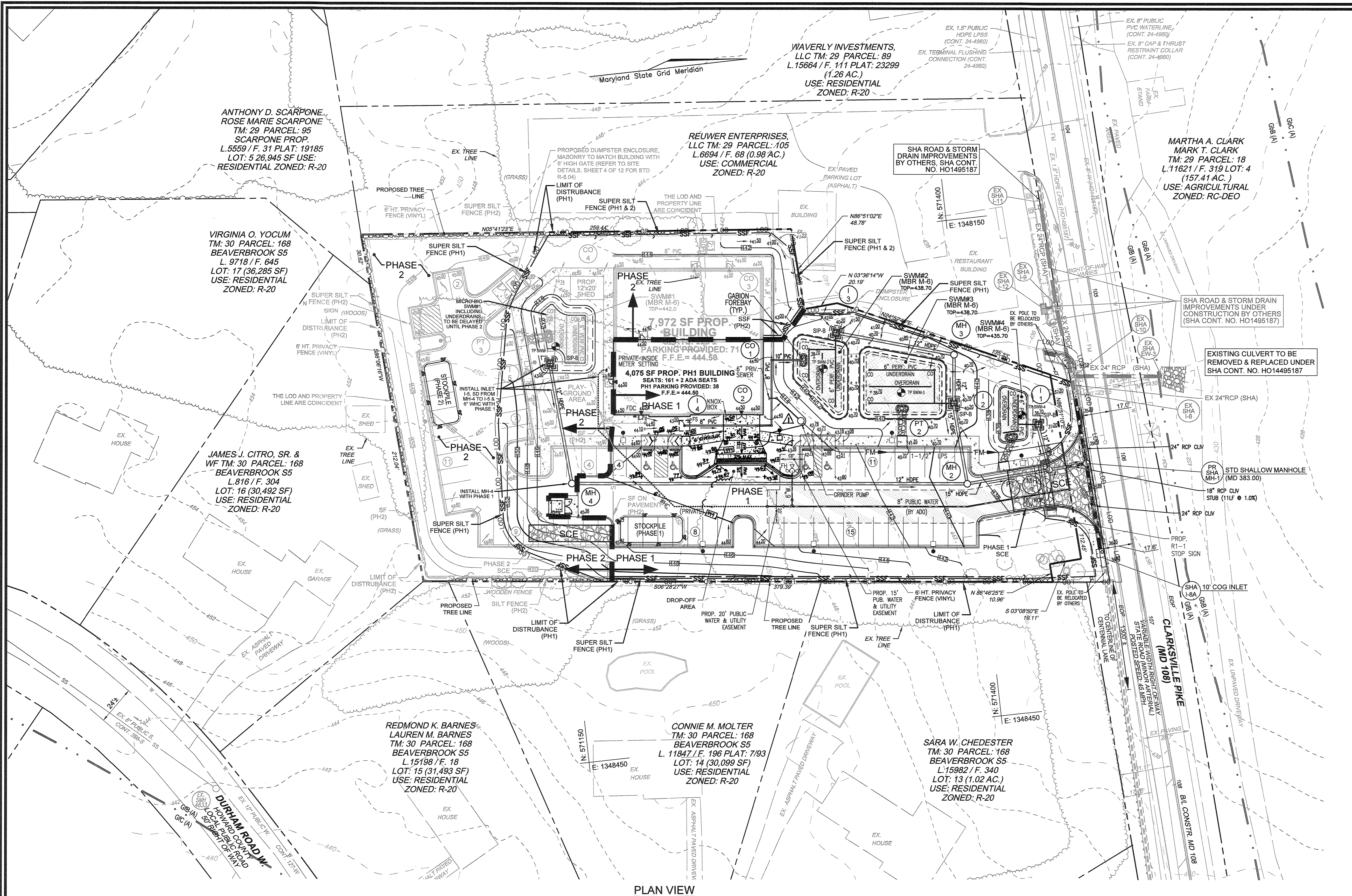
VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

DESIGN BY: RHW/ACS
DRAWN BY: ACS
CHECKED BY: RHW
DATE: JANUARY 2024
SCALE: AS SHOWN
W.O. NO.: 41079

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 03-27-2024

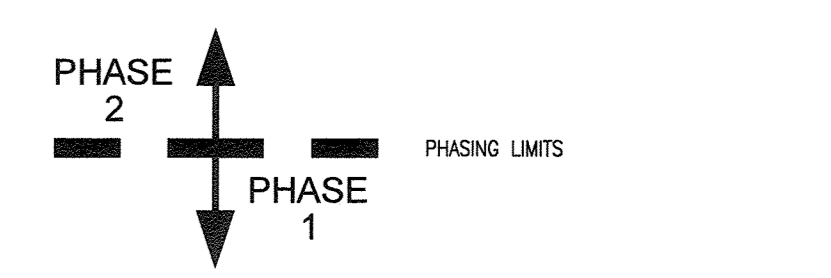
ROBERT H. VOGEL, PE, No. 16193

4 SHEET OF 13



LEGEND:

	PROPERTY LINE
	RIGHT-OF-WAY LINE
	ADJACENT PROPERTY LINE
	EXISTING PAVING
	EXISTING 10' CONTOUR
	EXISTING 2' CONTOUR
	SsE SOILS
	SIC2 SOILS
	EXISTING TREE LINE
	EXISTING OVERHEAD LINE
	EXISTING MANHOLE
	EXISTING JUNCTION BOX
	EXISTING SIGN
	EXISTING UTILITY POLE
	EXISTING CONC. CURB & GUTTER (INSTALLED UNDER H01495187)
	PROPOSED CURB & GUTTER
	PROPOSED CONTOUR
	PROPOSED PRIVACY FENCE
	PROPOSED TREE LINE
	PROPOSED LIGHT POLE
	PROPOSED BUILDING ACCESS
	PROPOSED MICRO-BIORETENTION
	EXISTING STORM DRAIN
	EXISTING STORM DRAIN (INSTALLED UNDER H01495187)
	PROPOSED STORM DRAIN (BY DEVELOPER)
	PROPOSED STORM DRAIN (INSTALLED UNDER H01495187)
	PROPOSED STORM DRAIN (BY DEVELOPER UNDER MDT SHA ACCESS PERMIT)
	PROPOSED SIDEWALK
	PROPOSED PUBLIC WATER & UTILITY EASEMENT
	LIMIT OF DISTURBED AREA
	SUPER SILT FENCE
	SILT FENCE
	PROPOSED STANDARD INLET PROTECTION
	PROPOSED FLEX STORM CATCH-IT INLET PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE
	TEST PIT LOCATION



MAPPED SOILS TYPES - HOWARD COUNTY, MARYLAND

SYMBOL	NAME/DESCRIPTION	GROUP	HYDRIC	Kw RANGE	HIGHLY ERODIBLE
GB	CLAYSTONE-URBAN LAND COMPLEX, 0 TO 8% SLOPES	A	NO	0.28	NO

NOTE:
 TAKEN FROM: USDA, SCS-WEB SOIL SURVEY, AND HOWARD COUNTY SOIL CONSERVATION DISTRICT WEBSITE DOCUMENTS
[HTTPS://WWW.HOWARDSCD.ORG/DOCUMENTS](https://www.howardscd.org/documents)
 HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR K GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.

OWNER/DEVELOPER
 NEW PATH REFORMED CHURCH INC.
 8074 TROTTERS CHASE
 ELLICOTT CITY, MD 21043
 410-829-8829
 CONTACT: TAEBOK LEE
 EMAIL: nprchurch@gmail.com

NO.	REVISION	DATE
1	REVISE PLAN FOR DROP OFF AREA TO BE COMPLIANT WITH ADA REQUIREMENTS	5-7-24

SITE DEVELOPMENT PLAN
GRADING, SEDIMENT AND EROSION CONTROL PLAN; SOILS MAP
 NEW PATH REFORMED CHURCH
 10425 CLARKSVILLE PIKE (MD RTE 108)
 ELLICOTT CITY, MD
 L. 20171 / F. 20
 TAX MAP 29 BLOCK 18
 5TH ELECTION DISTRICT
 ZONED: R-20
 PARCEL 108
 HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP
 3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

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DESIGN BY: RHW/ACS
 DRAWN BY: ACS
 CHECKED BY: RHW
 DATE: JANUARY 2024
 SCALE: AS SHOWN
 W.O. NO.: 41079

5 SHEET OF 13

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 2/19/2024
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 2/12/2024
 CHIEF, DIVISION OF LAND DEVELOPMENT
 2/19/2024
 DIRECTOR

OWNER/DEVELOPER CERTIFICATION:
 I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

DESIGN CERTIFICATION:
 I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, 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 CONSERVATION DISTRICT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 2/19/2024
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 2/12/2024
 CHIEF, DIVISION OF LAND DEVELOPMENT
 2/19/2024
 DIRECTOR

OWNER/DEVELOPER SIGNATURE
 Taebok Lee
 DATE: 1/26/2024
 PRINTED NAME & TITLE

DESIGNER'S SIGNATURE
 Robert H. Vogel
 DATE: 1/29/2024
 PRINTED NAME

DESIGNED BY
 Alexander Bratchie
 DATE: 2/12/2024
 HOWARD S.C.D.

SEDIMENT CONTROL NOTES:
 1. SEDIMENT CONTROLS INTERRUPTED BY THE INSTALLATION OF STORM DRAINS ARE TO BE REPAIRED IMMEDIATELY.
 2. A DOUBLE ROW OF "SUPER" SILT FENCE IS TO BE INSTALLED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR.
 3. STOCKPILES EXCEEDING 15 FEET IN HEIGHT SHALL BE BENCHED.
 4. SILT FENCE SHALL BE CURLED UPHILL WHEREVER IT RUNS DOWNHILL.
 5. EITHER TEMPORARY OR PERMANENT SEEDING AND STABILIZATION IS TO BE PERFORMED AT THE DIRECTION OF THE SEDIMENT CONTROL INSPECTOR OR AT THE INTERVALS PROVIDED IN THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, WHICHEVER IS MORE STRINGENT.

NPDES Phase II Accessories

FLEXSTORM™ CATCH-IT™ Reusable Inlet Protection

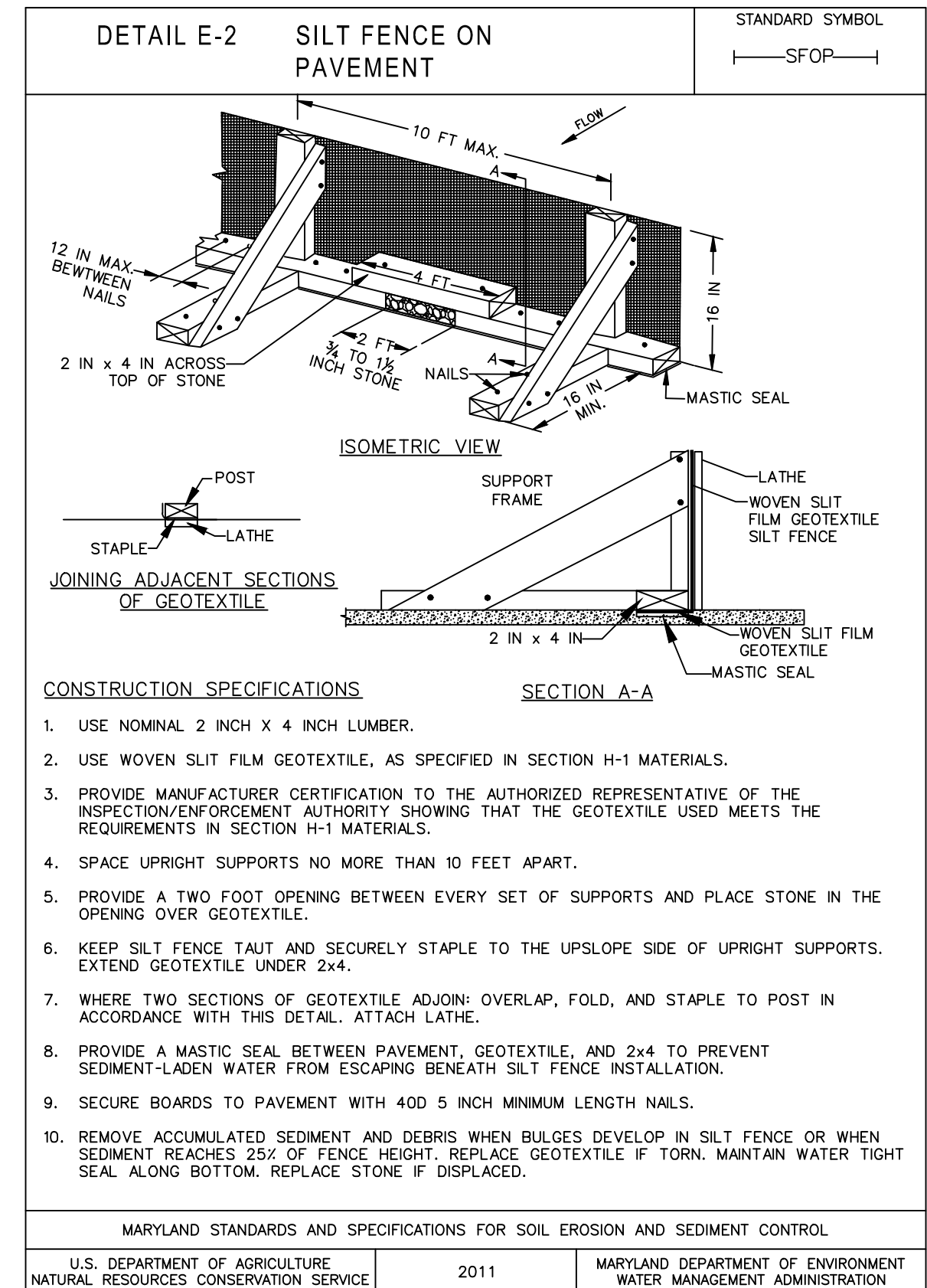
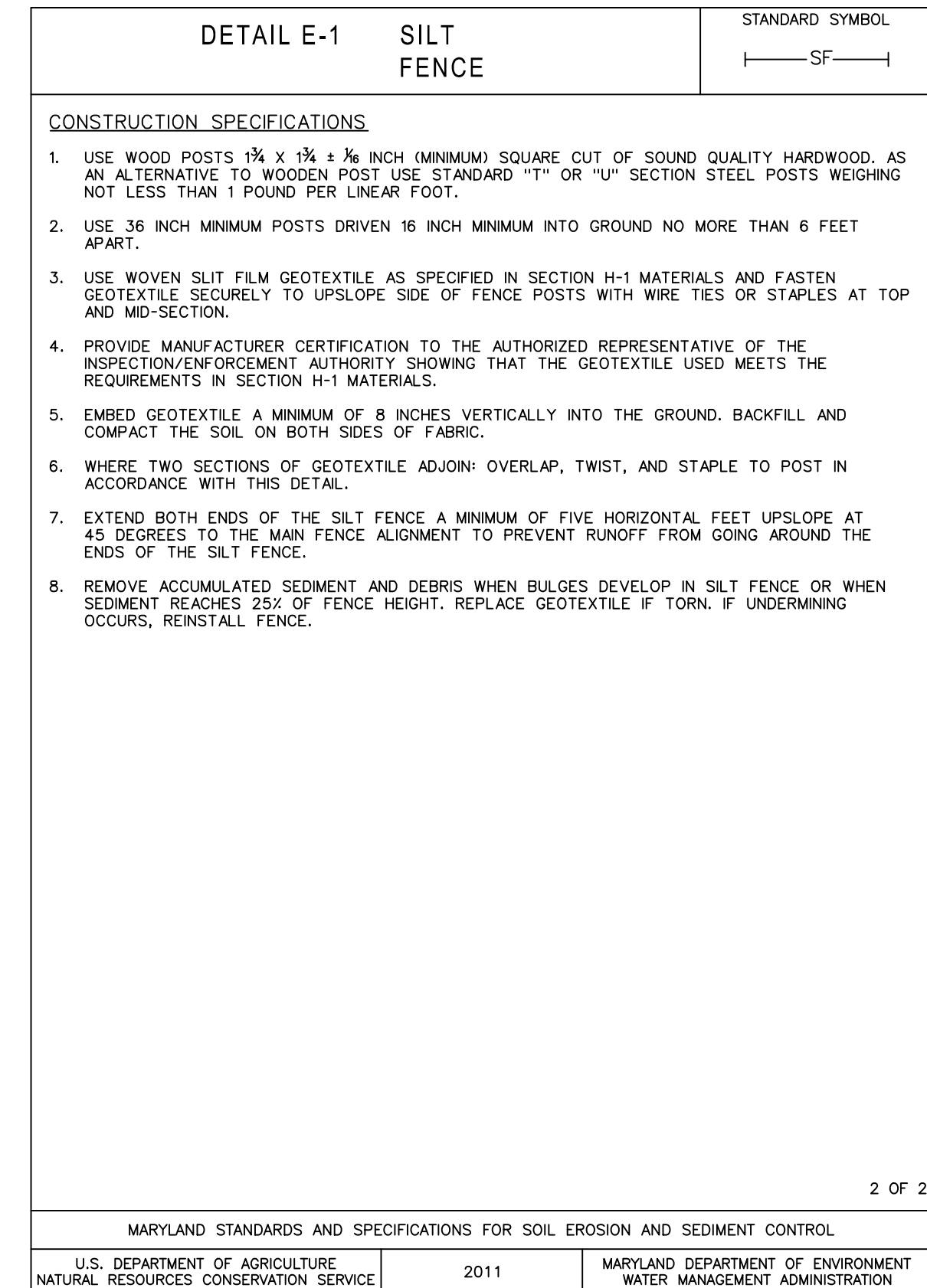
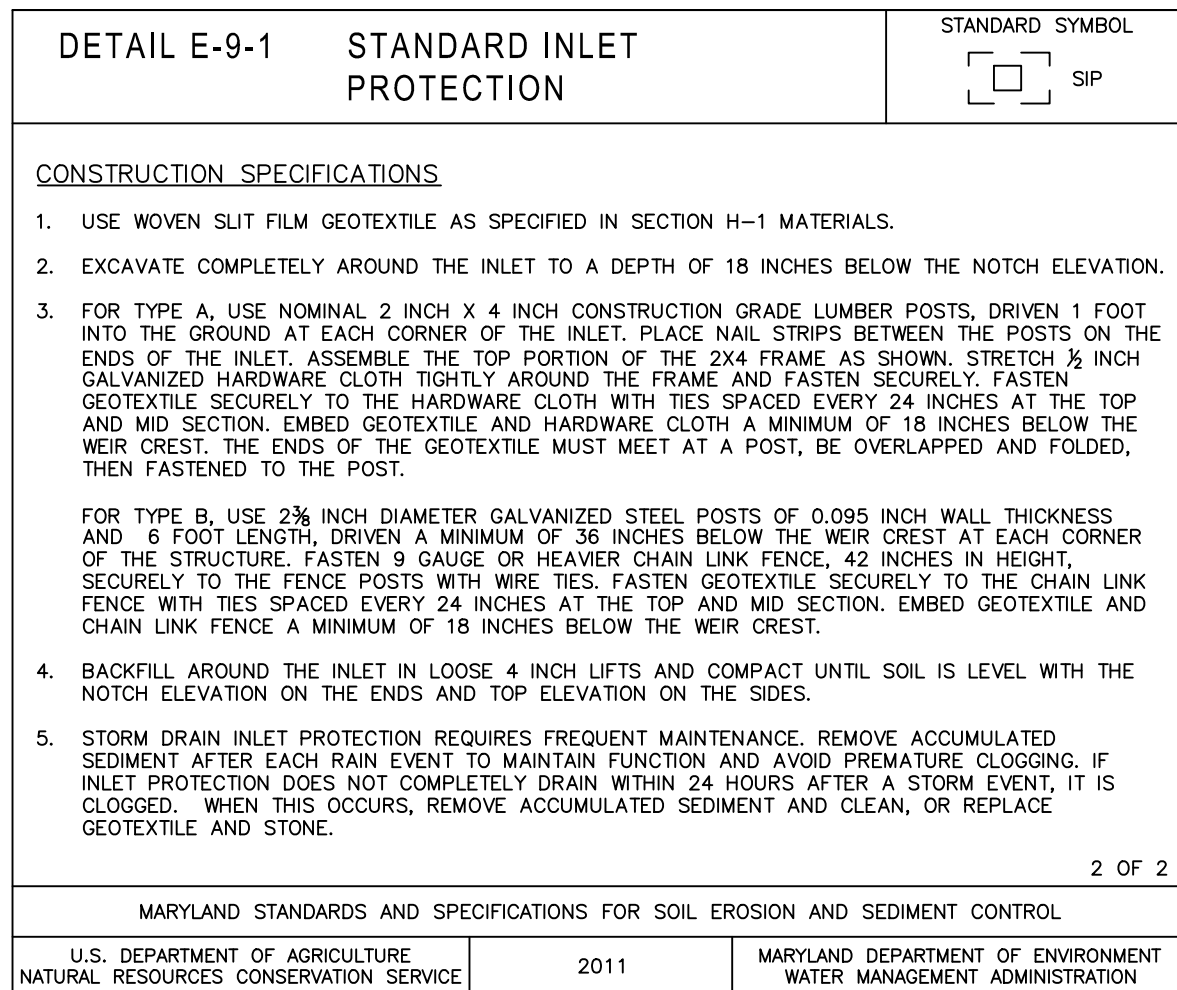
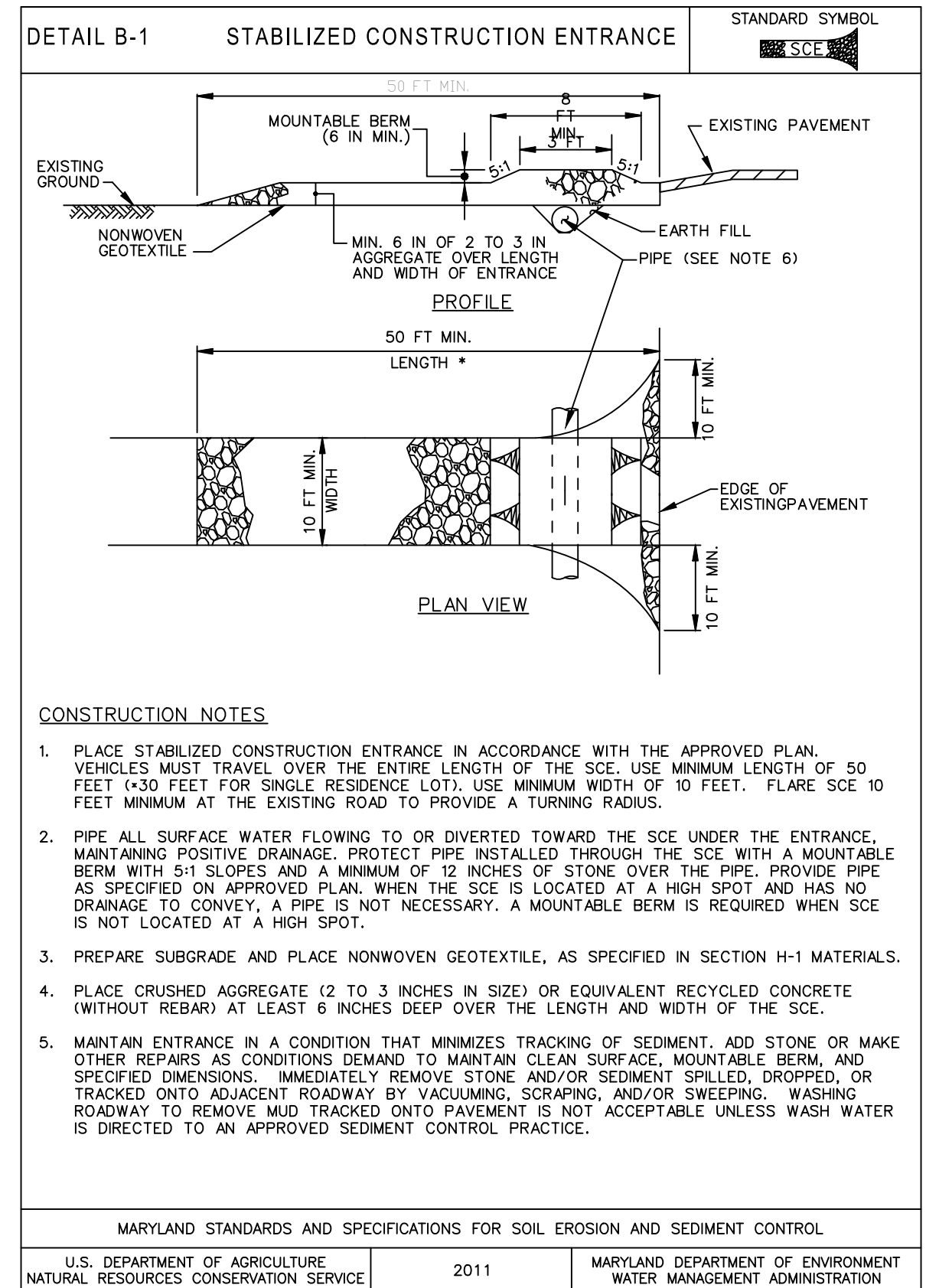
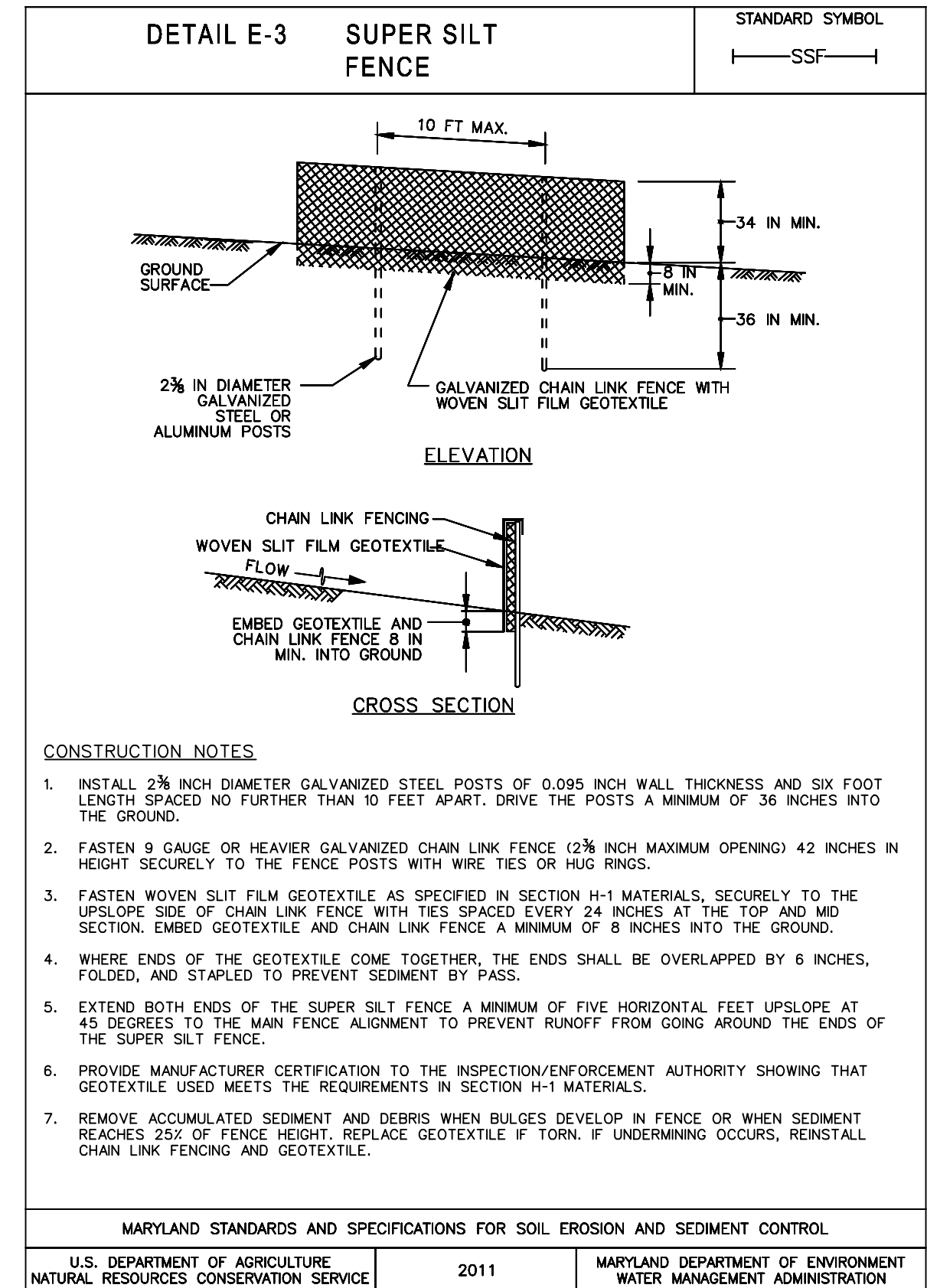
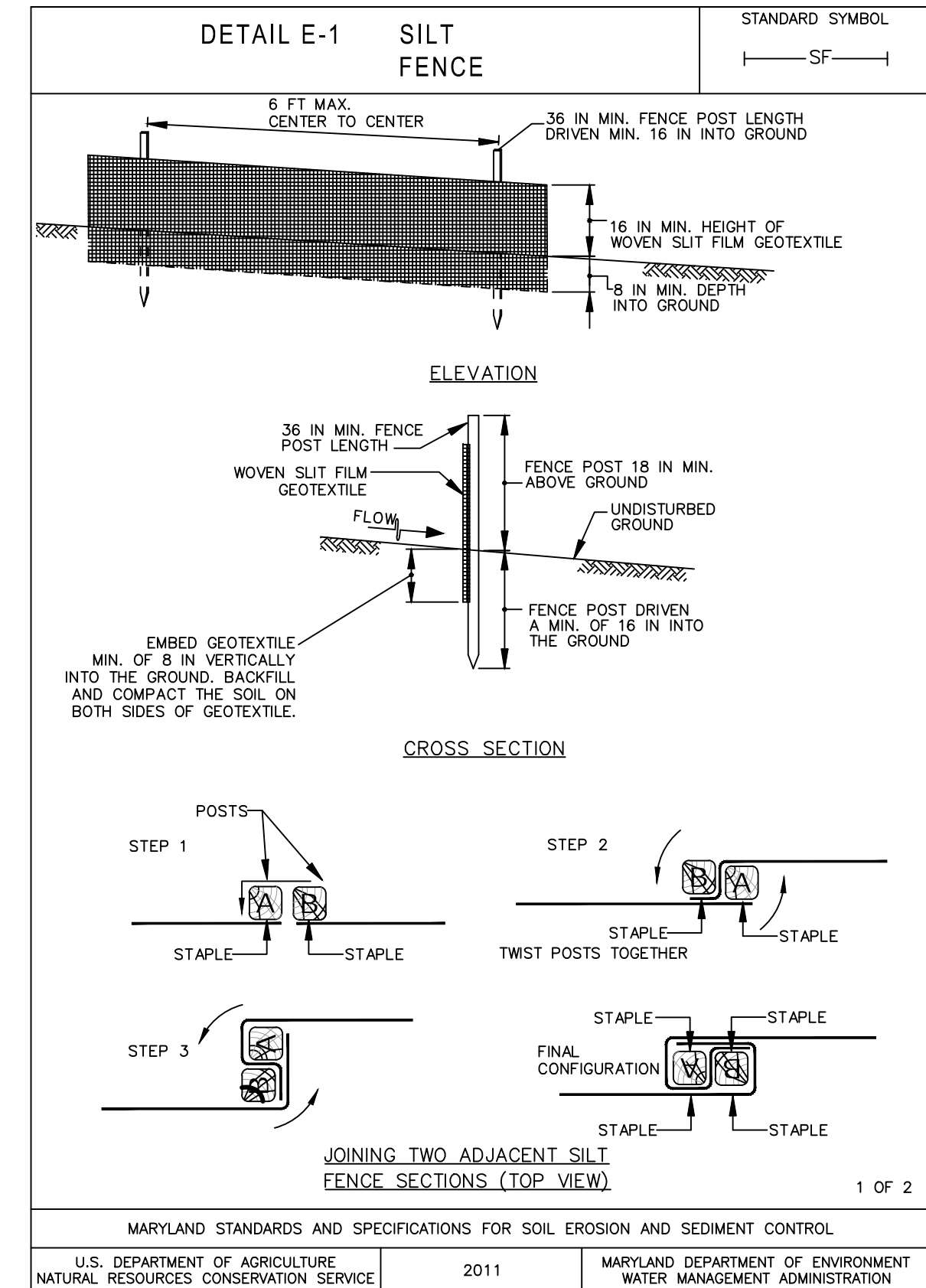
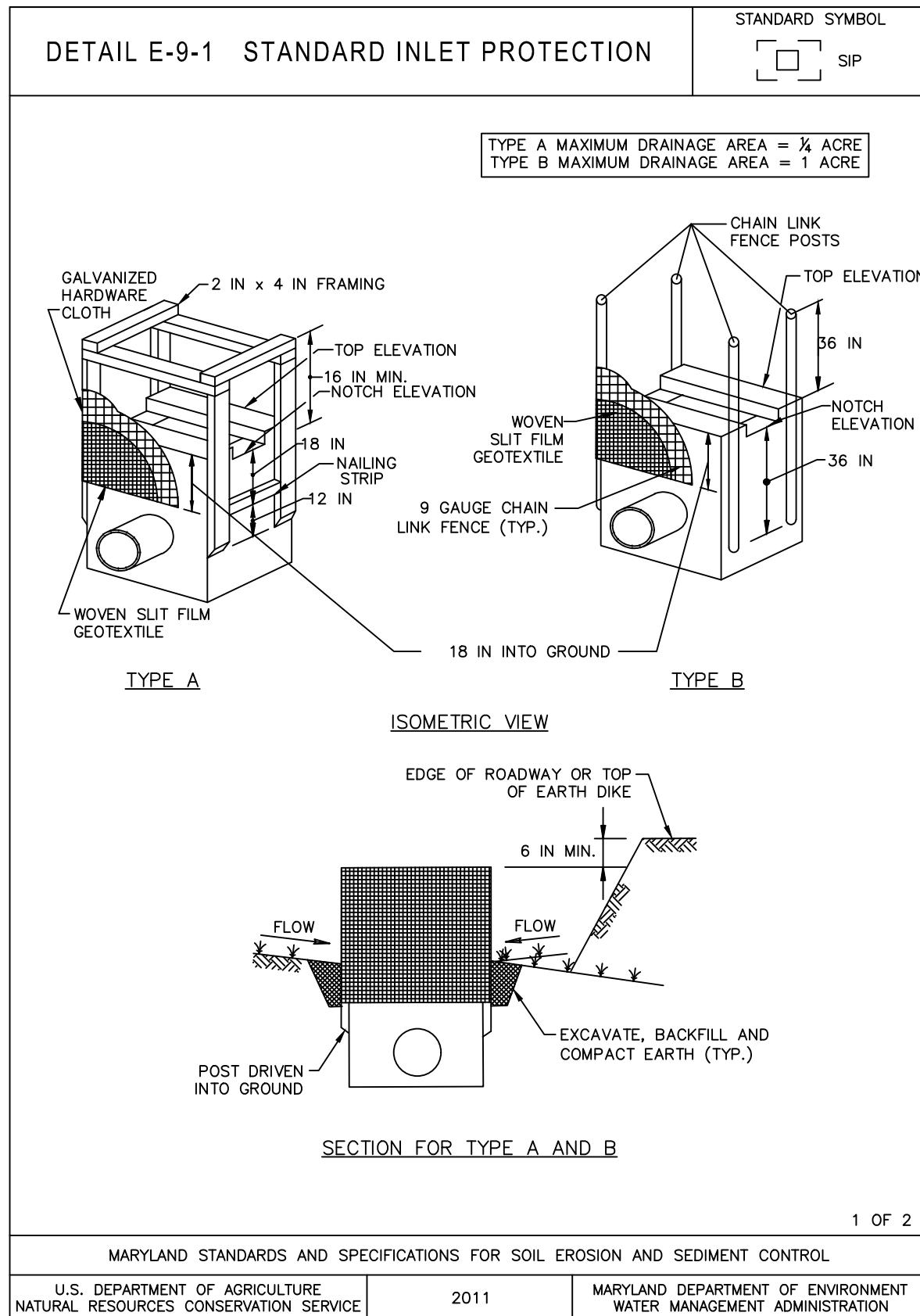
State DOTs and Municipalities across the country now have a universal structural BMP to address the issue of storm sewer inlet protection: FLEXSTORM CATCH-IT Inlet Filters—the temporary and reusable solution.

The FLEXSTORM CATCH-IT system is the preferred choice for temporary inlet protection and storm water runoff control. FLEXSTORM CATCH-IT Inlet Filters will fit any drainage structure and are equipped with high-efficiency filter bags. Whether you're the specifier or the user, it's clear to see how FLEXSTORM CATCH-IT Inlet Filters outperform the competition.

- Applications:**
- DOT
 - Commercial
 - Industrial
 - Residential Developments
 - Road Construction
 - Parking Lots
 - Maintenance

- Features**
- **Configurable:** steel frames configured and quantified to fit ANY storm drainage structure
 - **Adjustable:** although shipped to fit your inlet, rectangular framing may be field adjusted in 1" increments if necessary
 - **Reusable:** galvanized framing will last year after year in harsh conditions, while geotextile filter bags are easily replaced after several years of use
 - **Effective:** works below grade; overflow feature allows streets to drain with full bag; third party testing results of the FX filter bag show 82% efficiency
 - **Affordable:** low per-unit cost; installs in seconds; easily maintained with Universal Removal Tool (no machinery required)

- Benefits**
- Reduce possible flooding and keep projects running
 - Minimize residential complaints with cleaner, dryer streets during all construction phases
 - Prevent hazardous road icing conditions by eliminating ponding at curb inlets
 - Significantly reduce cleanup costs
 - Prevent siltation and pollution of rivers, lakes, and ponds
 - Helps prevent fines; NPDES PHASE II Compliant
 - Lowest cost alternative for the highest level of Inlet Protection
 - Available through 5,000 ADS distributors nationwide
 - Ships within 48 hours



OWNER/DEVELOPER
NEW PATH REFORMED CHURCH INC.
8074 TROTTERS CHASE
ELLCOTT CITY, MD 21043
410-829-8829
CONTACT: TAEBOK LEE
EMAIL: nprchurch@gmail.com

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN
SEDIMENT AND EROSION CONTROL
NOTES & DETAILS

NEW PATH REFORMED CHURCH
10425 CLARKSVILLE PIKE (MD RTE 108)
ELLCOTT CITY, MD

L 20171 / F 20
TAX MAP 29 BLOCK 18
5TH ELECTION DISTRICT

ZONED: R-20
PARCEL 106
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 09-27-2024

DESIGN BY: RHW/ACS.
DRAWN BY: ACS.
CHECKED BY: RHW.
DATE: JANUARY 2024.
SCALE: AS SHOWN.
W.O. NO.: 41079.

7 SHEET OF 13

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
David Edmondson 2/19/2024

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 2/12/2024

CHIEF, DIVISION OF LAND DEVELOPMENT DATE 2/19/2024

DIRECTOR DATE

OWNER/DEVELOPER CERTIFICATION:
I/WE CERTIFY THAT ANY CLEARING, GRADING, CONSTRUCTION, OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL ON EROSION AND SEDIMENT PRIOR TO BEGINNING THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE.

DocuSigned by:
Taebok Lee 1/26/2024

OWNER/DEVELOPER SIGNATURE DATE
Taebok Lee

PRINTED NAME & TITLE

DESIGN CERTIFICATION:
I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH CURRENT MARYLAND EROSION AND SEDIMENT CONTROL LAWS, REGULATIONS, AND STANDARDS, THAT IT REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE, AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DocuSigned by:
Robert H. Vogel 1/29/2024

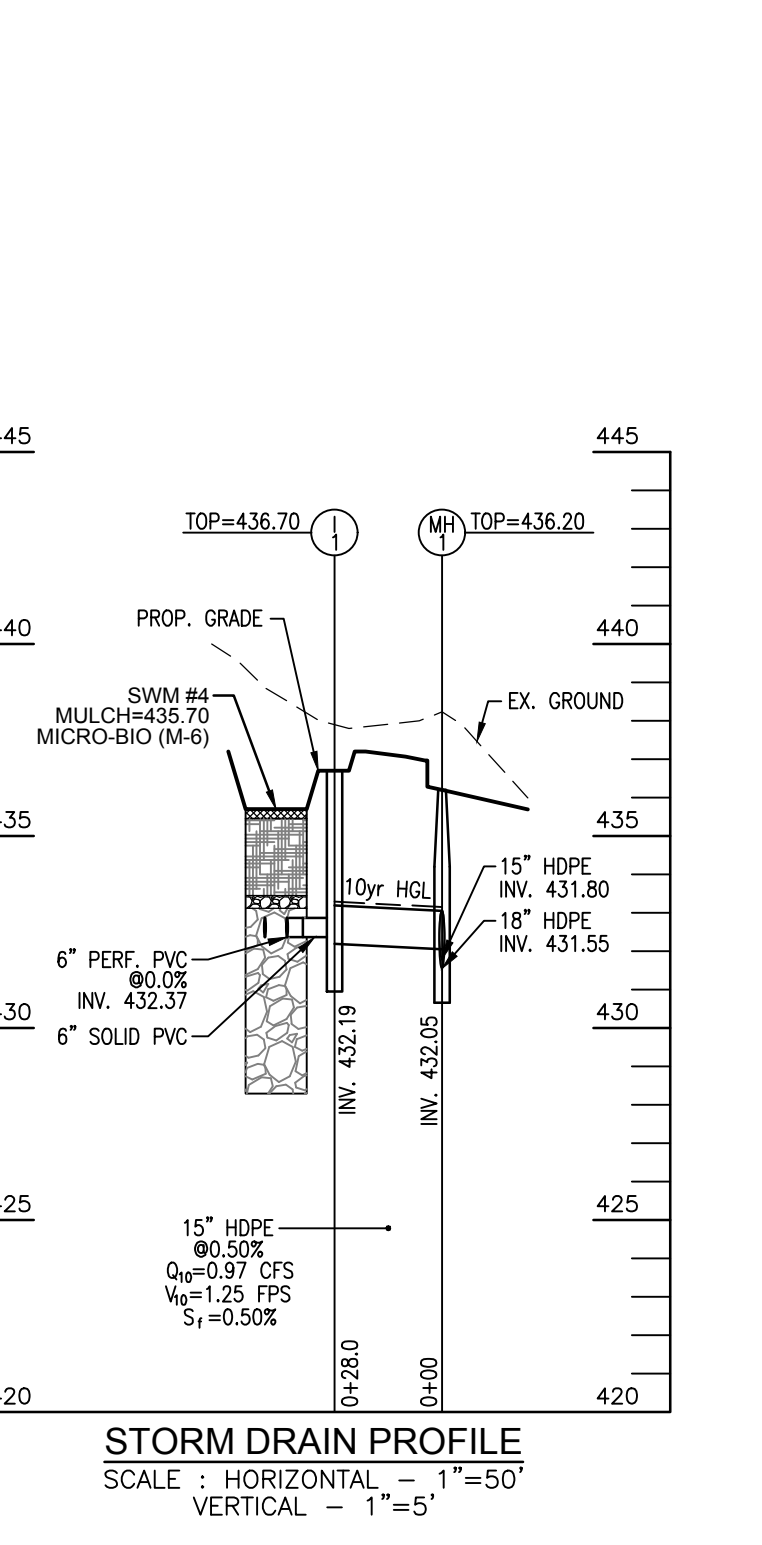
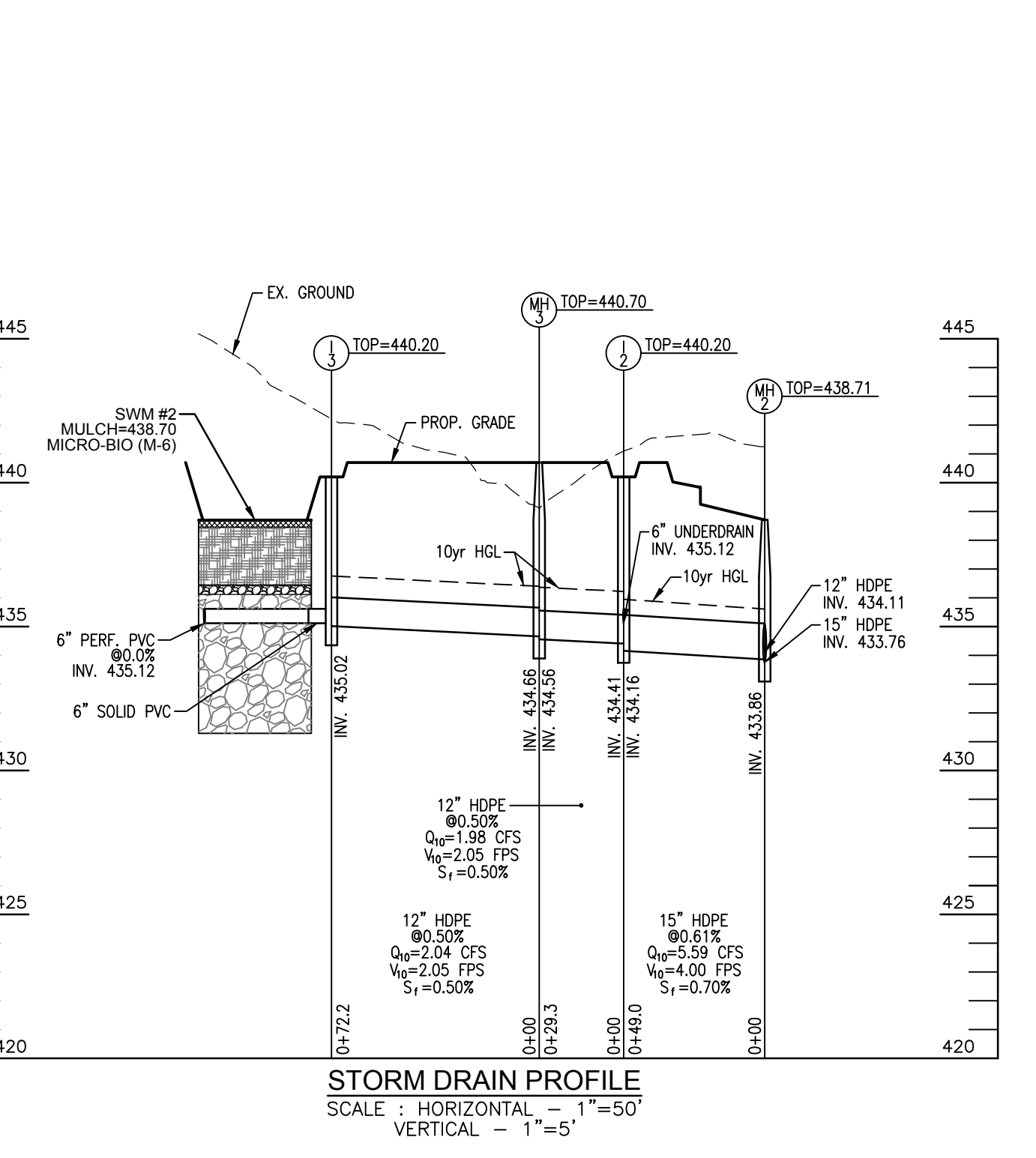
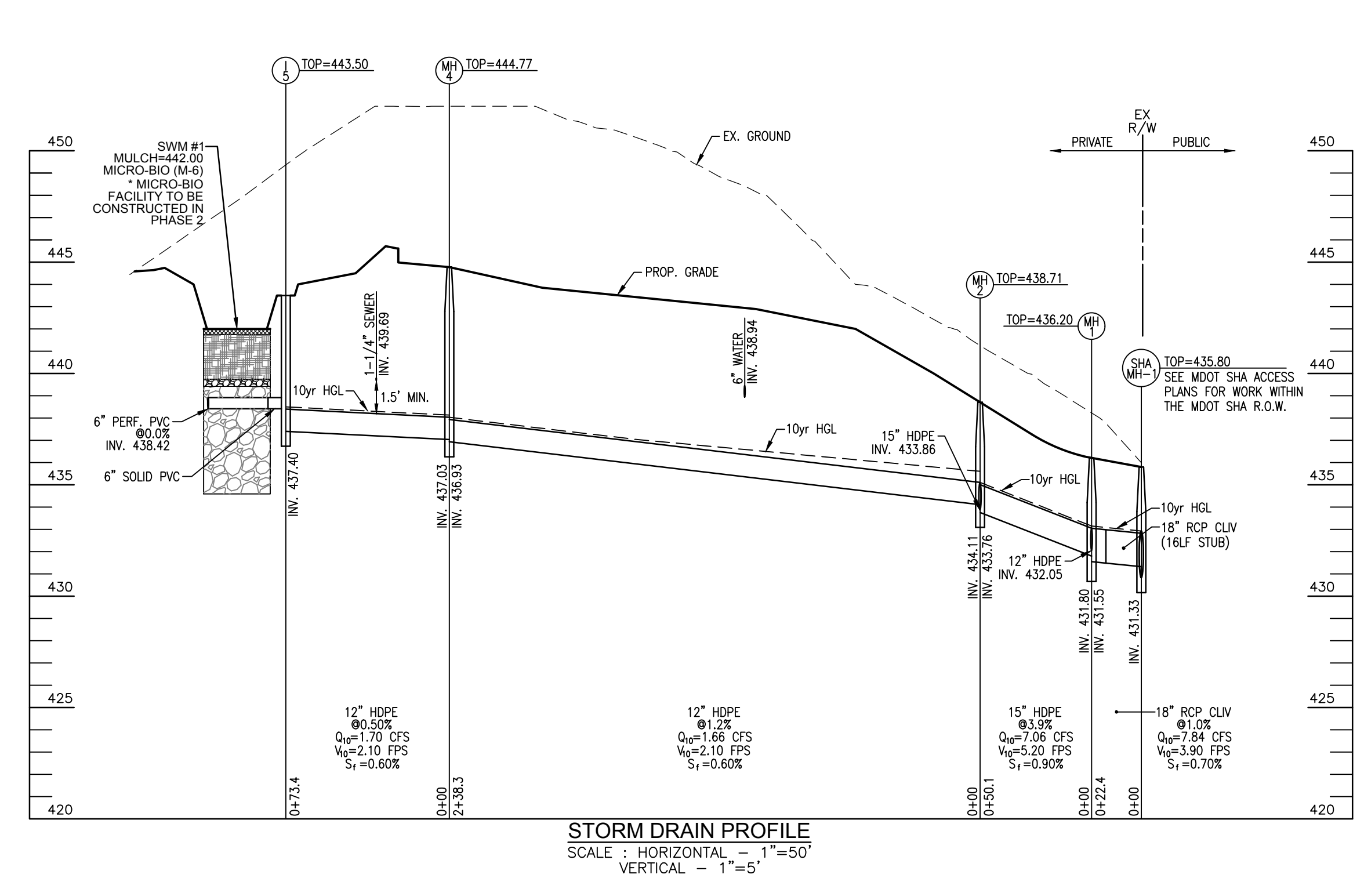
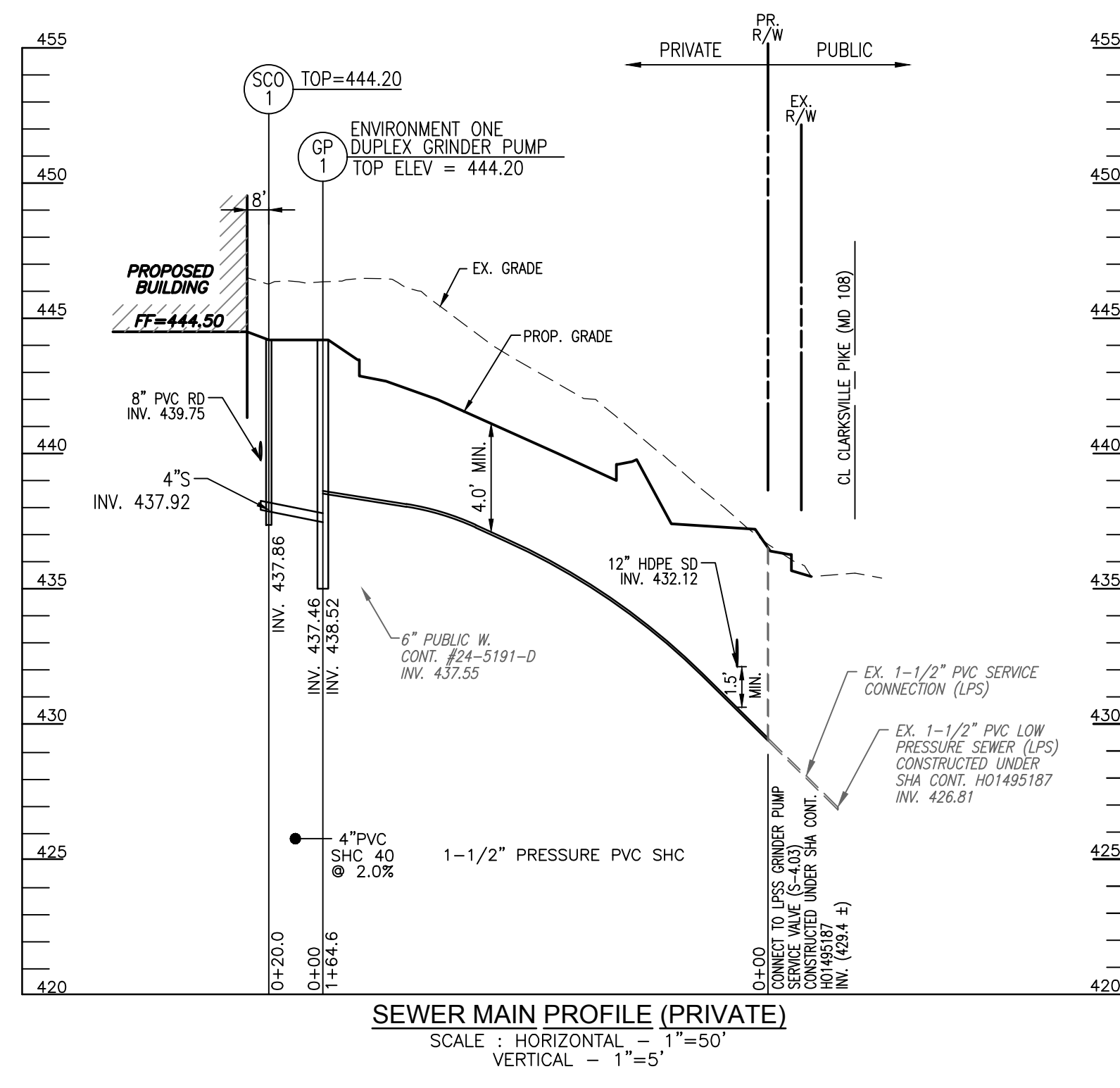
DESIGNER'S SIGNATURE DATE
ROBERT H. VOGEL MD REGISTRATION NO. 16193
P.E., R.L.S., OR R.L.A. (circle one)

PRINTED NAME

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

DocuSigned by:
Alexander Bratchie 2/12/2024

HOWARD S.C.D. DATE



PRIVATE WATER AND SEWER PIPE SCHEDULE

SIZE	TYPE	MATERIAL	LENGTH (LF)
6"	PRIVATE WATER	C-900	160
4"	PRIVATE SEWER	PVC	20
1-1/2"	PRIVATE SEWER	PVC	165

PRIVATE SEWER - STRUCTURE LOCATION CHART

ID	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	REMARKS
GP-1	GRINDER PUMP	N 571299.67 E 1348260.05	444.20	437.46	438.52	E/One Model DH152/DR152

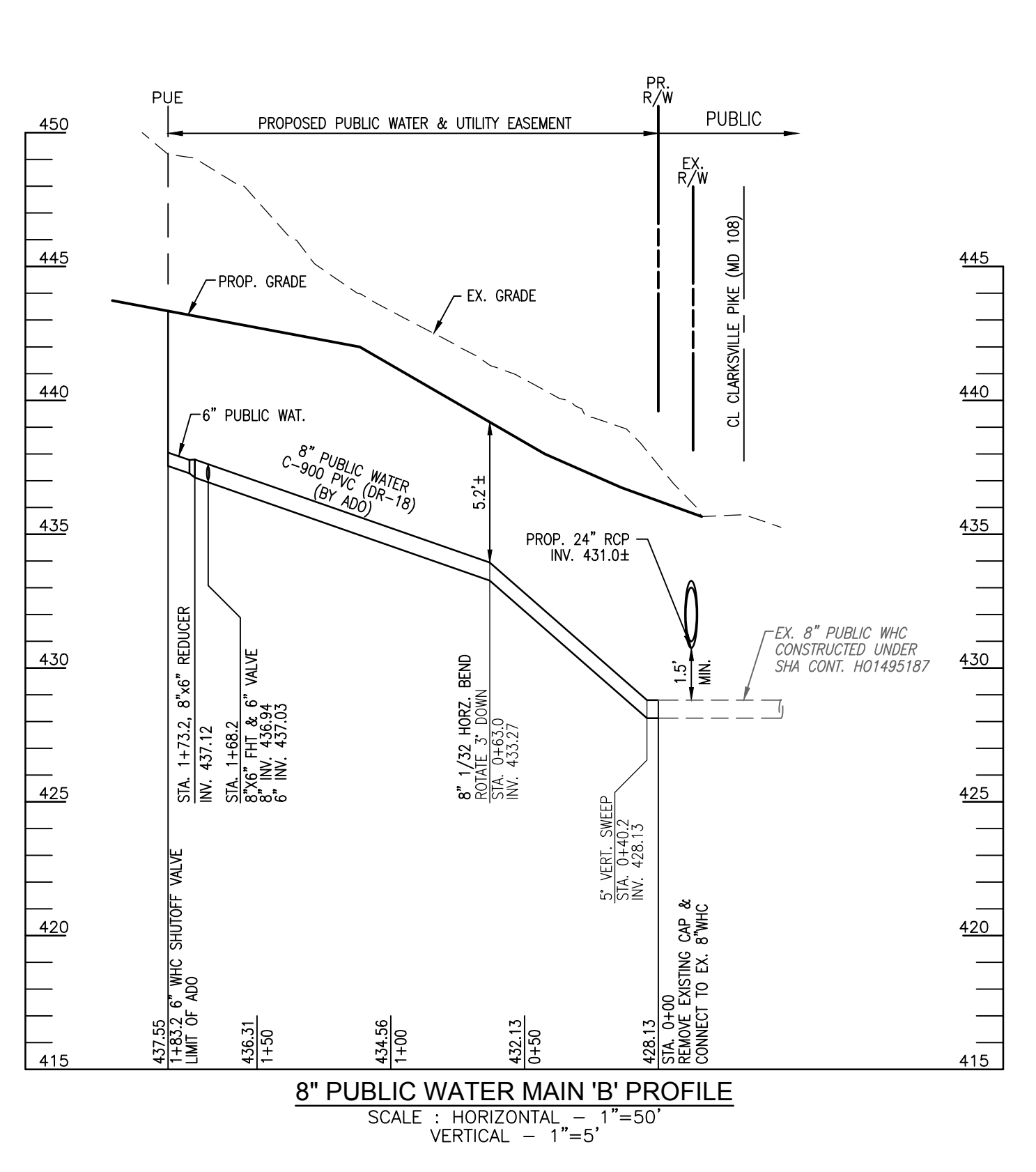
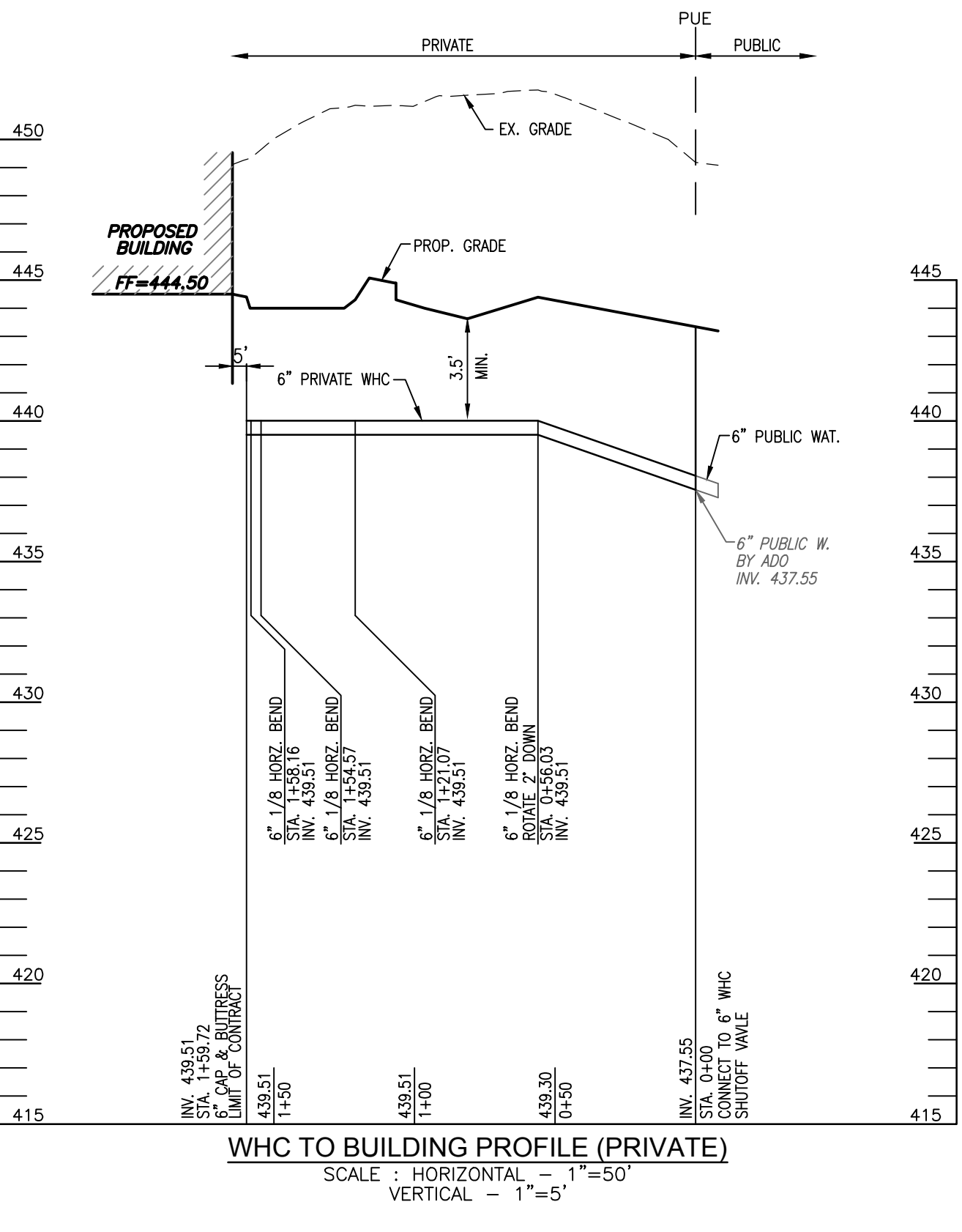
STORM DRAIN STRUCTURE SCHEDULE (PRIVATE)

STR #	TYPE	INV. IN	INV. OUT	TOP ELEV	DETAIL	LOCATION	REMARKS
MH-1	4' MANHOLE	432.05 / 431.80	431.55	436.20	G5.12	E= 1348305.87 N= 571445.12	
MH-2	4' MANHOLE	433.86 / 434.11	433.76	438.71	G5.12	E= 1348308.89 N= 571395.14	
MH-3	4' MANHOLE	434.66	434.56	440.70	G5.12	E= 1348230.80 N= 571395.80	
MH-4	4' MANHOLE	437.03	436.93	444.77	G5.12	E= 1348282.02 N= 571158.35	
I-1	'S'	432.37 (6" Underdrain)	432.19	436.70	D-4.24	E= 1348278.11 N= 571441.69	
I-2	'S'	435.12 (6" Underdrain) / 434.41	434.16	440.20	D-4.24	E= 1348259.87 N= 571392.50	
I-3	'S'	435.12 (6" Underdrain)	435.02	440.20	D-4.24	E= 1348209.78 N= 571326.69	
I-4	8" ADS INLET	440.55 (RD)	440.55	443.50	-	E= 1348254.98 N= 571229.54	W/ DOME GRATE
I-5	'S'	438.42 (6" Underdrain)	437.40	443.50	D-4.24	E= 1348208.75 N= 571163.34	
PT-1	PASS THRU INLET	437.30	---	437.90	D-4.35	E= 1348303.96 N= 571418.61	
PT-2	PASS THRU INLET	440.70	---	441.30	D-4.35	E= 1348282.59 N= 571358.53	
PT-3	PASS THRU INLET	444.00	---	444.60	D-4.35	E= 1348193.81 N= 571134.44	
CO-1	CLEANOUT	439.52 / 439.52	439.36	444.30	-	E= 1348221.73 N= 571286.12	
CO-2	CLEANOUT	439.92	439.92	444.30	-	E= 1348260.90 N= 571281.67	
CO-3 *	CLEANOUT	440.14	440.14	444.10	-	E= 1348159.77 N= 571293.15	* TO BE CONSTRUCTED IN PH2
CO-4 *	CLEANOUT	---	441.09	444.30	-	E= 1348148.70 N= 571198.52	* TO BE CONSTRUCTED IN PH2

PRIVATE SD PIPE SCHEDULE

Size	Class	Total Length
4"	PERF. PVC (SWM)	131
6"	PERF. PVC (SWM)	280
6"	SOLID PVC (SWM)	33
8"	SOLID PVC	250
10"	SOLID PVC	16
12"	HDPE	439
15"	HDPE	99
18"	RCP CLV	7

* The total length of pipe is linear feet only.



CONSTRUCTION NOTES FOR ADD PART I - GENERAL CONSTRUCTION NOTES

- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE, HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION), THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- THE ADD CONSTRUCTION WORK MUST BE PERFORMED UNDER THE CONTINUOUS INSPECTION OF THE CONSTRUCTION INSPECTIONS DIVISION OF THE DEPARTMENT OF PUBLIC WORKS. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTIONS DIVISION (410) 313-1800 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF ANY CONSTRUCTION FOR THIS A.D.O.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY AND AGENCIES AND MISS UTILITY AT TWO (2) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.
- WORK PERFORMED WITHIN MARYLAND STATE HIGHWAY ADMINISTRATION (MSHA) RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE MSHA PERMIT ISSUED FOR THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE MARYLAND STATE HIGHWAY ADMINISTRATION, 410-531-5533, AT LEAST FIVE (5) WORKING DAYS BEFORE EXCAVATING WITHIN THE MARYLAND STATE HIGHWAY RIGHT-OF-WAY FOR LAYING WATER OR SEWER MAINS OR SERVICE CONNECTIONS.
- EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- EXCAVATIONS MUST BE SUPPORTED FOR THE PROTECTION OF WORKERS. THE CONSTRUCTION WORK AREA AND ADJACENT PROPERTY, REFER TO TEMPORARY EXCAVATION SUPPORT SYSTEMS UNDER SECTION 1000.03.03 OF THE STANDARD SPECIFICATIONS.
- EXCAVATIONS MUST BE KEPT WELL DRAINED AT ALL TIMES. DEWATERING, DRAINAGE AND PUMPING IS REQUIRED DURING CONSTRUCTION, REFER TO DEWATERING, DRAINAGE AND PUMPING UNDER SECTION 1000.03.03 OF THE STANDARD SPECIFICATIONS. PUMPS MUST BE THE PROPER TYPE AND CAPACITY TO MAINTAIN A DRY WORK AREA.
- THE USE OF STEEL PLATES TO PROTECT THE TRENCH AND ROADWAY SHALL BE AS SPECIFIED UNDER SECTION 1000.03.05, SECTION 104 AND STANDARD DETAIL G-4.02 OF THE STANDARD SPECIFICATIONS.
- TEMPORARY AND PERMANENT REPAIR OF ROADWAY OPENINGS SHALL BE AS SPECIFIED UNDER SECTION 1000.03.08 AND STANDARD DETAIL G-4.01 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED BY PERMIT FROM THE AUTHORITY HAVING JURISDICTION. TEMPORARY PAVING SHALL CONSIST OF NOT LESS THAN 12 (TWELVE) INCHES OF CRUSHED STONE AND 2 (TWO) INCHES OF BITUMINOUS COLD PATCH MATERIAL.

PART II - WATER CONSTRUCTION NOTES

- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 4'-0" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOTIFY THE DPW BUREAU OF UTILITIES (410-313-4900) AT LEAST 48 HOURS IN ADVANCE OF SCHEDULED SHUTDOWNS OF THE EXISTING WATER MAIN. SHUT DOWNS OF THE EXISTING WATER MAIN FOR NEW CONNECTIONS ARE REMOVAL OF EXISTING SERVICE CONNECTIONS SHALL BE AS SPECIFIED UNDER SECTION 1002.06- CONNECTIONS OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- THE 6-INCH WATER SERVICE SHALL BE D.I.P. AND ALL JOINTS SHALL BE RESTRAINED BETWEEN WATER MAIN AND THE PROPERTY LINE.
- WATER SERVICE CONNECTIONS SHALL BE AS SPECIFIED UNDER SECTION 1004- WATER HOUSE SERVICE AND APPURTENANCES OF THE STANDARD SPECIFICATIONS.
- THE NEW WATER METER ASSEMBLY SHALL BE THE INSIDE COMBINED FIRE/DOMESTIC PER HOWARD COUNTY DETAIL PLATE W-3.44. INSTALLATION OF THE WATER METER IS NOT PART OF THE A.D.O. CONSTRUCTION WORK.

*** ALL STORM DRAIN, SEWER & WATER TO BE CONSTRUCTED IN PHASE 1 UNLESS OTHERWISE NOTED.**

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DocuSigned by:
David Edmondson 2/19/2024

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

2/12/2024

CHIEF, DIVISION OF PLANNING & DEVELOPMENT DATE

2/19/2024

DIRECTOR DATE

PUBLIC WATER MAIN LOCATION CHART

WL STA.	APPURTENANCE	NORTHING	EASTING
0+00	BEGIN 8" WATER	571,456.12	1,348,318.73
0+63.0	8" 1/32 HB	571,393.27	1,348,322.53
1+68.2	8" 6" F.H.T., 6" VALVE & F.H.	571,288.69	1,348,310.66
1+73.2	8" 6" REDUCER	571,283.72	1,348,310.09
1+83.2	6" WHC SHUTOFF VALVE	571,273.78	1,348,308.97

PUBLIC WATER PIPE SCHEDULE

SIZE	TYPE	MATERIAL	LENGTH (LF)
8"	PUBLIC WATER	C-900	173
6"	PUBLIC WATER	C-900	10
6"	PUBLIC WATER	DIP (FH)	21

OWNER/DEVELOPER
NEW PATH REFORMED CHURCH INC.
8074 TROTTERS CHASE
ELLCOTT CITY, MD 21043
410-829-8829
CONTACT: TAEBOK LEE
EMAIL: nprchurch@gmail.com

SITE DEVELOPMENT PLAN
STORM DRAIN & UTILITY PROFILES

NEW PATH REFORMED CHURCH
10425 CLARKSVILLE PIKE (MD RTE 108)
ELLCOTT CITY, MD

L 20171 / F. 20
TAX MAP 29 BLOCK 18
5TH ELECTION DISTRICT

ZONED: R-20
PARCEL 106
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP
3300 NORTH RIDGE ROAD, SUITE 110, ELLCOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

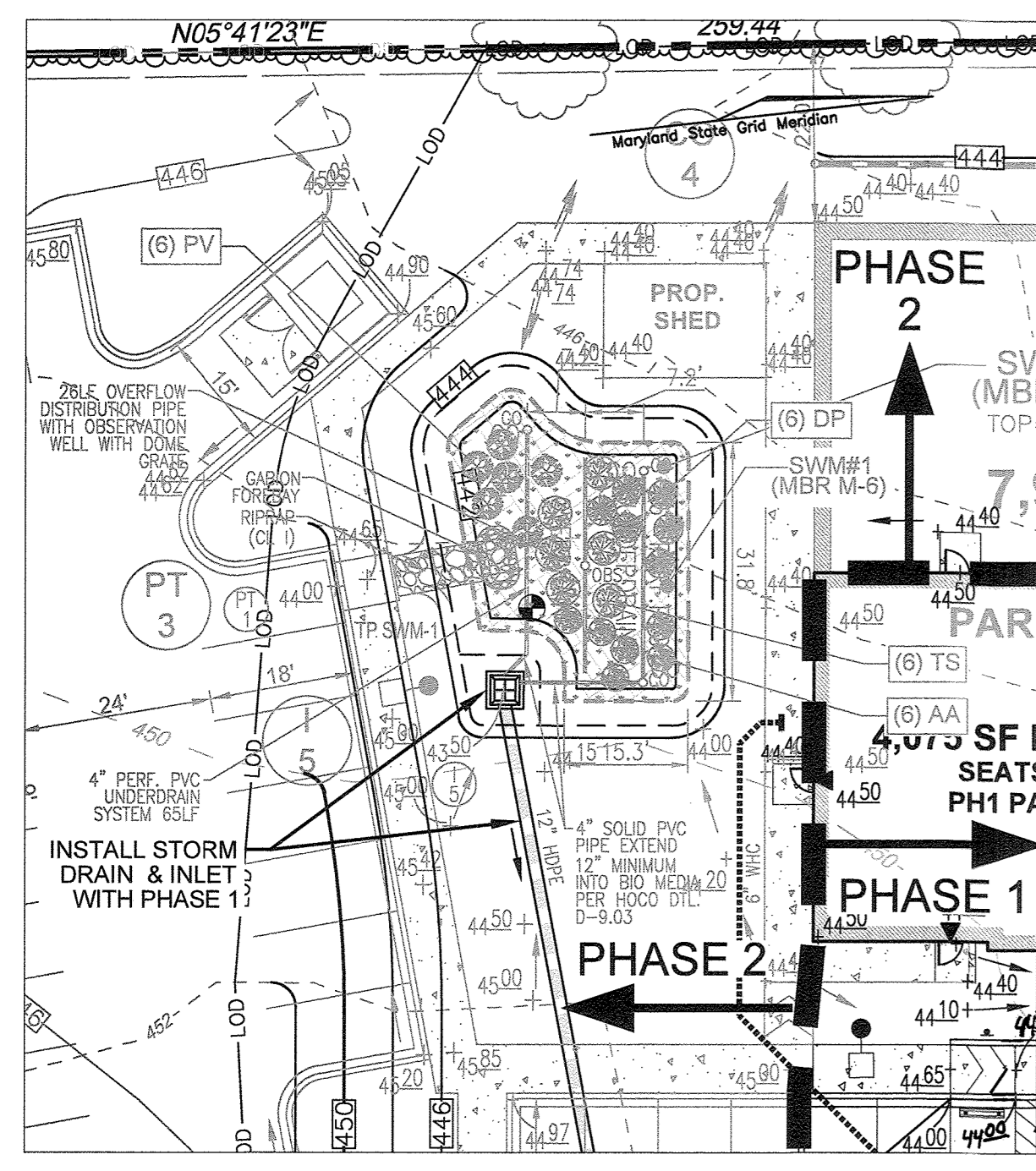
DESIGN BY: RHW/ACS.
DRAWN BY: ACS.
CHECKED BY: RHW.
DATE: JANUARY 2024.
SCALE: AS SHOWN.
W.O. NO.: 41079.

PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 16193, EXPIRATION DATE: 03-27-2024

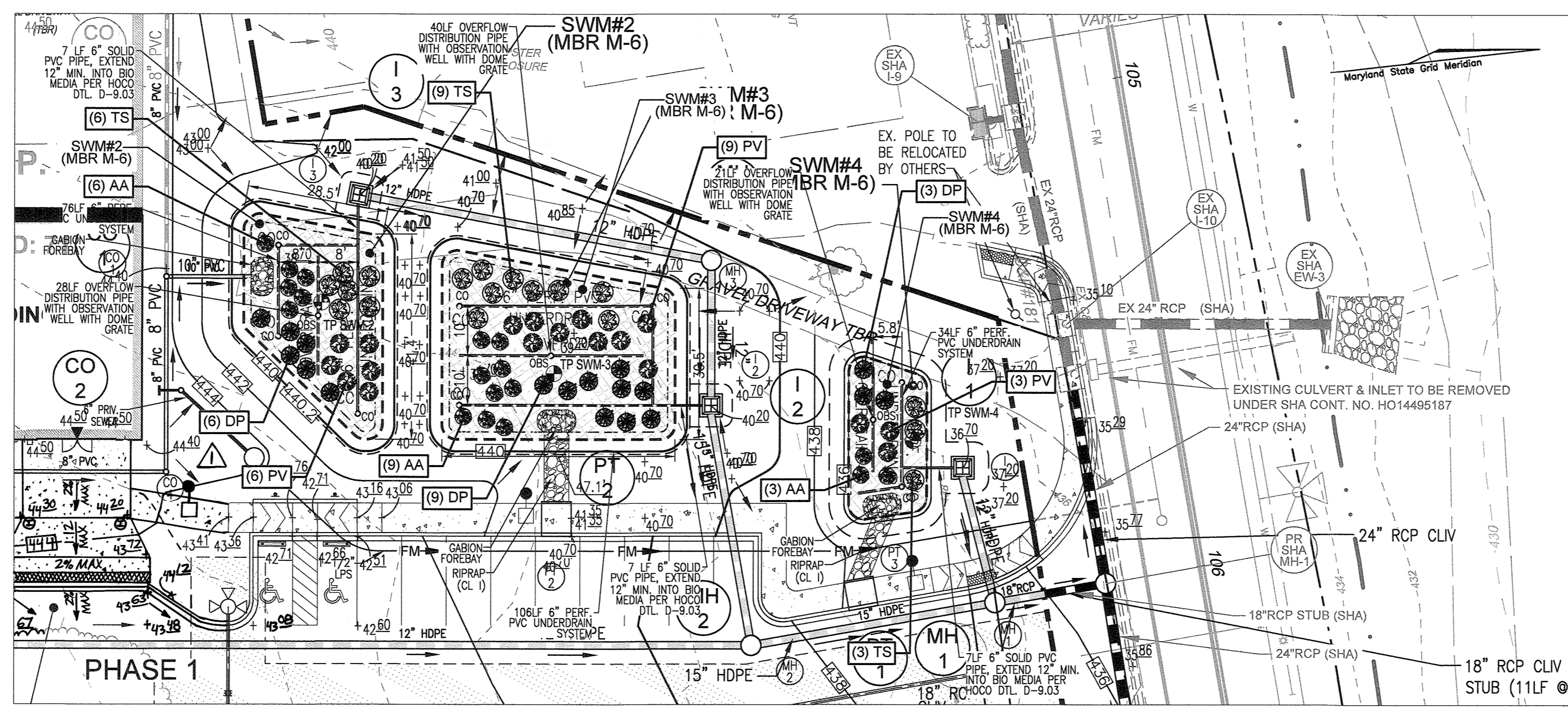
Robert H. Vogel
ROBERT H. VOGEL, PE No. 16193

9 SHEET OF 13

SDP-22-007



DETAILED PLAN VIEW (SWM#1) *
SCALE 1"=20'



DETAILED PLAN VIEW (SWM#2-#4)
SCALE 1"=20'

* CONSTRUCTION OF SWM#1 TO BE DELAYED UNTIL PHASE 2

Table with 3 columns: MICRO BIO-RETENTION PLANTING, PLANTINGS PROVIDED, PERENNIALS/GROUND COVER. Rows include SWM#1, SWM#2, SWM#3, SWM#4, and TOTALS.

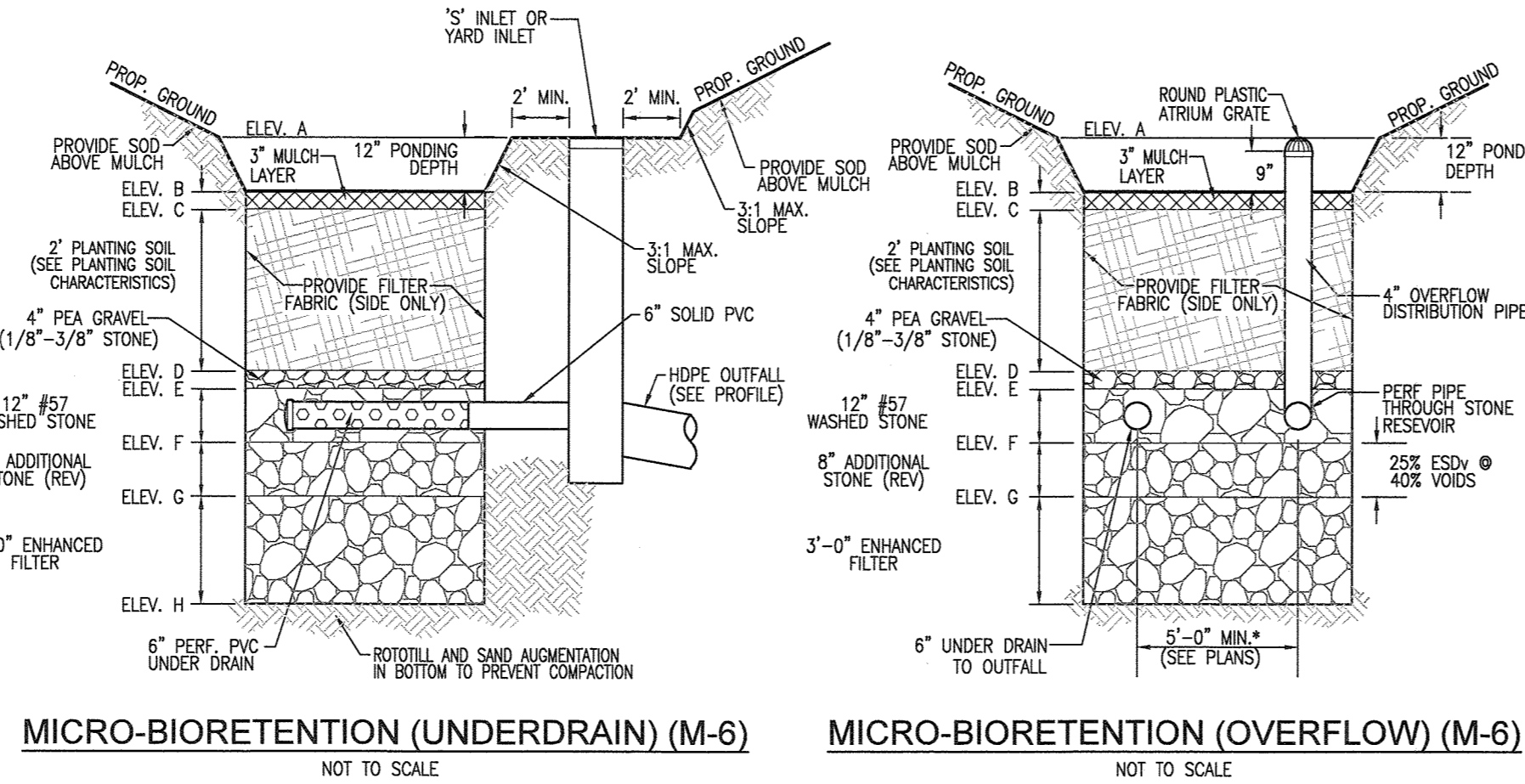
AREAS ARE TO BE PLANTED BASED ON A MINIMUM DENSITY OF 1000 STEMS PER PLANTED ACRE (0.0227 STEMS PER SQUARE FOOT).

- 1. LANDSCAPE CONTRACTOR SHALL INSTALL PLANTINGS SPECIFIED OR USE APPROVED EQUAL WHICH ARE TOLERANT TO FLUCTUATING WATER LEVELS.
2. PLANTINGS SHOWN HEREON ARE THE RESPONSIBILITY OF THE DEVELOPER TO INSTALL DURING THE CONSTRUCTION OF THIS FINAL PLAN.

MICRO-BIORETENTION DATA CHART table with columns: MBR Facility Number, Ponding Depth (ft), Ponding Elevation, Top of Mulch ELEV., Bottom of Mulch ELEV., Depth of Plant Mix (ft), Bottom of Plant Mix ELEV., Depth of Pea Gravel (ft.), Bottom of Pea Gravel ELEV., #57 Stone (ft.), Invert of Underdrain ELEV., Invert of HDPE Outfall ELEV., #57 Stone ELEV., Depth of REV Stone ELEV., Depth of Additional Stone (ft.), Bottom of Stone ELEV.

PLANTING SCHEDULE (SHRUB/ORNAMENTAL GRASSES) table with columns: LEGENDKEY, QTY, BOTANICAL NAME/Common Name, SIZE, REMARKS. Includes plants like Scaevola, Sagittaria, and Panicum.

MICRO-BIORETENTION PERENNIALS/GROUNDCOVER PLANTING SCHEDULE table with columns: LEGEND, QTY, BOTANICAL NAME/Common Name, SIZE, REMARKS. Includes Baptisia and Acorus.

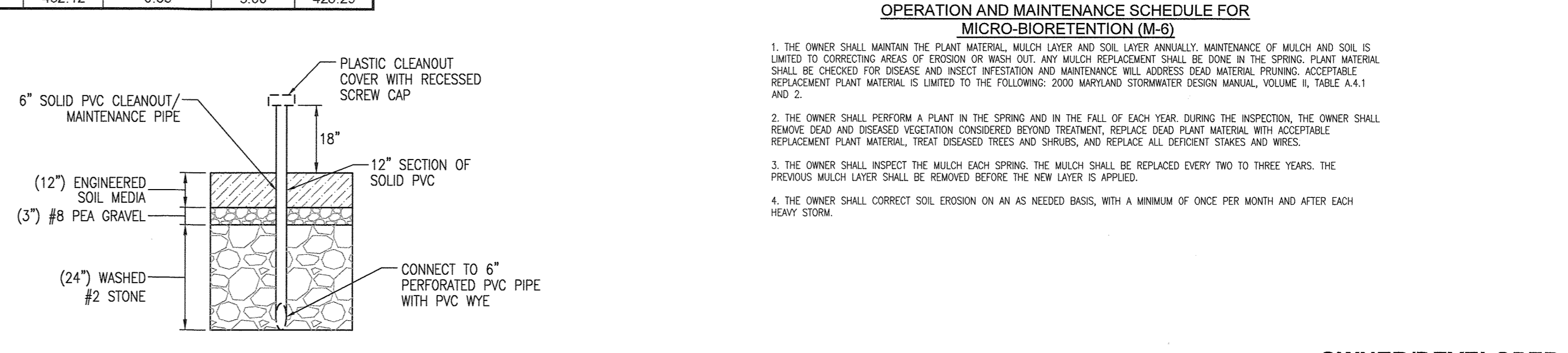


MICRO-BIORETENTION (UNDERDRAIN) (M-6) NOT TO SCALE
MICRO-BIORETENTION (OVERFLOW) (M-6) NOT TO SCALE

MICRO-BIORETENTION NOTES:
1. ONLY THE SIDES OF MICRO-BIORETENTION ARE TO BE WRAPPED IN FILTER FABRIC...
2. WRAP THE PERFORATED MBR UNDERDRAIN PIPE WITH 1/4" MESH (4x4) OR SMALLER GALVANIZED HARDWARE CLOTH...
3. PROVIDE 5' MINIMUM SPACING BETWEEN UNDERDRAIN AND PERFORATED PIPE THROUGH STONE RESERVOIR OR SPACE PIPE EQUALLY ACROSS BOTTOM FOR SMALL BIOS...
4. SEE STORM DRAIN PROFILES ON SHEET 9 OF 12 FOR HOW EACH FACILITY WILL DISCHARGE INTO THE SYSTEM IN MD 108.

TEST PIT SUMMARY:
THE DEVELOPER'S CONTRACTOR PERFORMED THE REQUIRED TEST PIT HOLES LOCATED NEAR THE PROPOSED MICRO-BIORETENTION FACILITY LOCATIONS. TEST PITS WERE WITNESSED BY A REPRESENTATIVE OF VOGEL ENGINEERING + TIMMONS GROUP TO ASSESS GROUNDWATER LEVELS AND PRESENCE OF ROCK...
THE WITNESS TEST PITS REVEALED NO GROUNDWATER OR ROCK THAT WOULD PREVENT THE INSTALLATION OF THE PROPOSED FACILITIES.

APPENDIX B.4.C SPECIFICATIONS FOR MICRO-BIORETENTION, RAIN GARDEN, LANDSCAPE INFILTRATION & INFILTRATION BERMS
1. MATERIAL SPECIFICATIONS
2. FILTERING MEDIA OR PLANTING SOIL
3. COMPACTION
4. PLANT MATERIAL
5. PLANT INSTALLATION
6. UNDERDRAINS
7. MISCELLANEOUS



CLEANOUT/MAINTENANCE PIPE DETAIL (TYP.) NOT TO SCALE

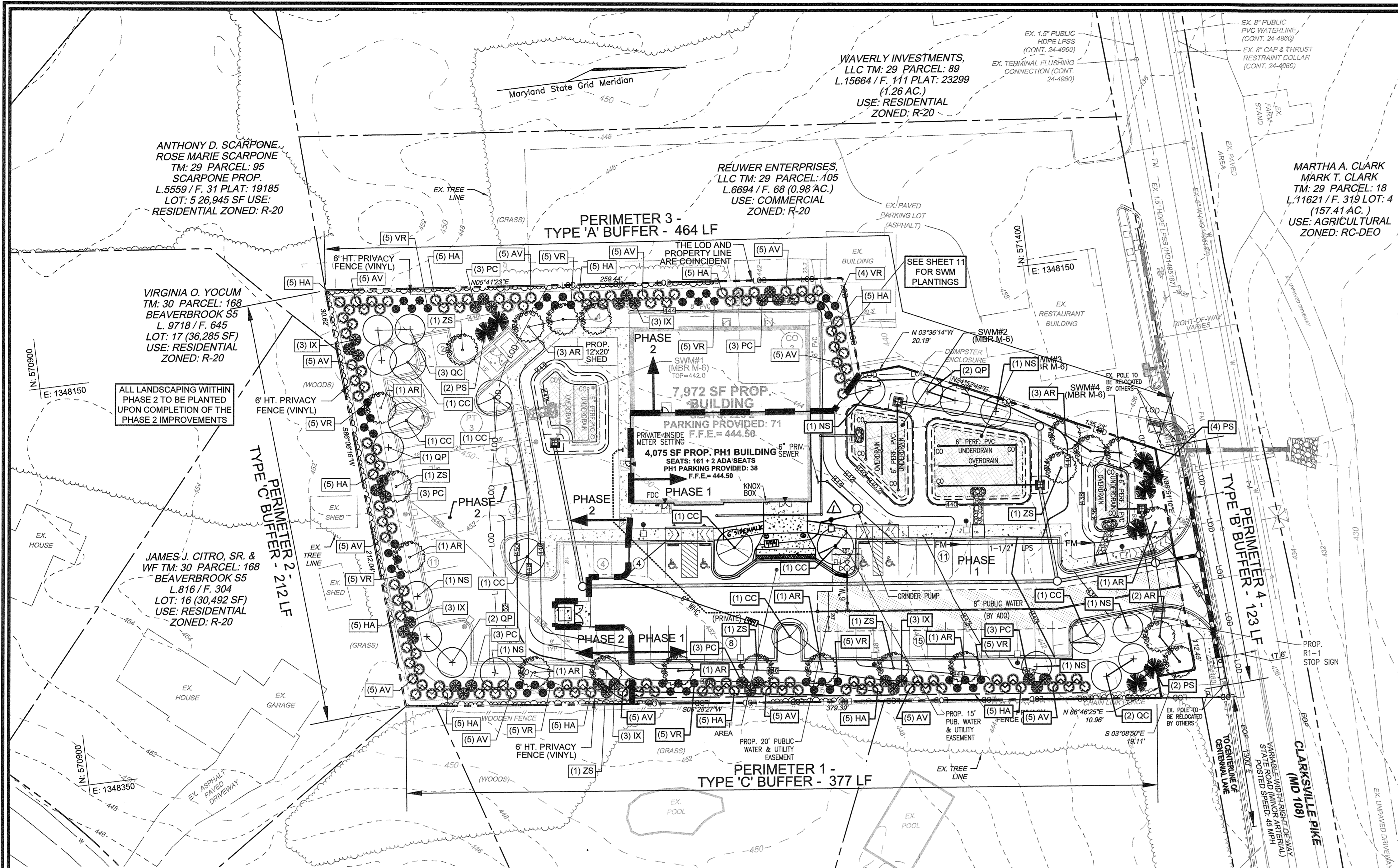
OPERATION AND MAINTENANCE SCHEDULE FOR MICRO-BIORETENTION (M-6)
1. THE OWNER SHALL MAINTAIN THE PLANT MATERIAL, MULCH LAYER AND SOIL LAYER ANNUALLY...
2. THE OWNER SHALL PERFORM A PLANT IN THE SPRING AND IN THE FALL OF EACH YEAR...
3. THE OWNER SHALL INSPECT THE MULCH EACH SPRING...
4. THE OWNER SHALL CORRECT SOIL EROSION ON AN AS NEEDED BASIS...

OWNER/DEVELOPER: NEW PATH REFORMED CHURCH INC., 8074 TROTTERS CHASE, ELLICOTT CITY, MD 21043

REVISION: REVISE PLAN FOR PROP OFF AREA TO BE COMPLIANT WITH ADA REQUIREMENTS. DATE: 5-7-24

Site Development Plan Stormwater Management Notes and Details. Includes project location (10425 Clarksville Pike), owner (Vogel Engineering + Timmons Group), and a table of material specifications for bio-retention, rain gardens, and landscape infiltration.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. Signatures and dates for approval.



SCHEDULE 'A' PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER AND ROADWAY					DUMPSTERS	TOTAL
	1	2	3	4	5		
PERIMETER/FRONTAGE DESIGNATION	6	2	4	8	5		
LANDSCAPE TREE	377'	212'	464'	123'	32'		
LINEAR FEET OF ROADWAY FRONTAGE/PERMETER							
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO		
CREDIT FOR EXISTING FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	YES 340LF	YES 206LF	Yes 376LF	No	No		
NUMBER OF PLANTS REQUIRED							
SHADE TREES	1:40 10	1:20 11	1:60 8	1:50 3	1:40 1	1:20 2	28
EVERGREEN TREES							36
SHRUBS							
NUMBER OF PLANTS PROVIDED							
SHADE TREES	7 (1)	3 (1)	7 (1)	3	1	2	21
EVERGREEN TREES	2 (2)	(2)		4	2		8
OTHER TREES (2:1 SUBSTITUTION)							
SHRUBS (10:1 SUBSTITUTION)							
DESCRIBE PLANT SUBSTITUTION CREDITS BELOW IF NEEDED							

(1) 1 SHADE TREE TO BE PROVIDED FOR EVERY 60' ALONG 922' FENCE (15 SHADE TREES). SCHEDULE A SHADE TREES TO BE PLANTED OUTSIDE THE FENCED AREA.
(2) EVERGREEN TREES (WITHIN THE FENCED AREA REQUIRED BY THE C) CREDITED TOWARD SCHEDULE A REQUIREMENTS. SCHEDULE A EVERGREEN TREES TO BE PLANTED OUTSIDE THE FENCED AREA.

LEGEND:

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- ADJACENT PROPERTY LINE
- CENTERLINE OF EXISTING STREAM
- EXISTING STREAM BUFFER
- EXISTING CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SANITARY LINE
- EXISTING CLEANOUT
- PROPOSED PRIVACY FENCE (SEE PRIVACY FENCING DETAIL, SHEET 4)
- EXISTING TREELINE
- PROPOSED STORMDRAIN
- PROPOSED STORMDRAIN INLET
- PROPOSED STORM DRAIN (BY DEVELOPER UNDER MDOT SHA ACCESS PERMIT)
- PROPOSED TREELINE
- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED PUBLIC WATER & UTILITY CASING
- MICRO BIO-RETENTION SURFACE LAYER
- EXISTING VEGETATION (APPROXIMATE LOCATION)
- EXISTING TREES TO BE REMOVED
- PROPOSED SHADE TREES
- PROPOSED EVERGREEN TREES
- PROPOSED SHRUBS
- PERIMETER DESIGNATION / TYPE
- PHASE 1
- PHASE 2
- PHASING LIMITS

PLANT LIST - SCHEDULE 'A'

KEY	QUAN	BOTANICAL NAME	SIZE	CAT
AR	15	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5"-3" CAL	B & B
ZS	6	ZELKOVA SERRATA 'VILLAGE GREEN' VILLAGE GREEN JAPANESE ZELKOVA	2.5"-3" CAL	B & B
PS	8	PINUS STROBUS EASTERN WHITE PINE	6'-8" HT.	B & B

PLANT LIST - CONDITIONAL USE PLANTINGS

KEY	QUAN	BOTANICAL NAME	SIZE	CAT
AV	65	THUJA OCCIDENTALIS 'SMAROLD' EMERALD GREEN ARBORVITAE	4'-5" HT.	B & B
HA	60	THUJA OCCIDENTALIS 'HOLMSTRUP' HOLMSTRUP ARBORVITAE	4'-5" HT.	B & B
VR	49	VIBURNUM X RHITIDOPHYLLOIDES ALLEGHAM	2.5"-3" HT.	B & B
PC	18	PRUNUS CAROLINIANA CAROLINA CHERRY LAUREL	2.5"-3" HT.	B & B
IX	15	ILEX X AQUIFOLIUM IRONCLOTH HOLLY	2.5"-3" HT.	B & B

SCHEDULE 'B' PERIMETER LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	73
NUMBER OF TREES REQUIRED	8
NUMBER OF TREES PROVIDED	8
SHADE TREES	8
OTHER TREES (2:1 SUBSTITUTION)	

PLANT LIST - SCHEDULE 'B' (PARKING LOT)

KEY	QUAN	BOTANICAL NAME	SIZE	CAT
CC	8	QUERCUS Coccinea EASTERN REDBUD	2.5"-3" CAL	B & B
TOTAL	8			

SPECIMEN TREE REPLACEMENT REQUIREMENT

DESCRIPTION	TOTAL QUANTITY
EXISTING SPECIMEN TREES TO BE REMOVED	8
REPLACEMENT TREES REQUIRED	16
REPLACEMENT TREES PROVIDED	16

NOTE: SUBSTITUTIONS ARE NOT PERMITTED WITHOUT DPZ APPROVAL.

PLANT LIST - SPECIMEN TREE REPLACEMENT

KEY	QUAN	BOTANICAL NAME	SIZE*	CAT
CC	5	QUERCUS COCCINEA SCARLET OAK	3" CAL (DBH)	B & B
OP	5	QUERCUS PHELLOS MILK OAK	3" CAL (DBH)	B & B
NS	6	NYSSA SYLVATICA BLACK GUM	3" CAL (DBH)	B & B
TOTAL	16			

* DIAMETER AT BREAST HEIGHT OF AT LEAST 3 INCHES

LANDSCAPE SCHEDULE NOTES:

- AT THE TIME OF PLANT INSTALLATION, ALL SHRUBS AND TREES LISTED AND APPROVED ON THE LANDSCAPE PLAN, SHALL COMPLY WITH THE PROPER HEIGHT REQUIREMENTS, BE FULL AND HEAVY, BE WELL FORMED AND SYMMETRICAL, 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 DEVIATION 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 APPLICABLE PLANS.
- THE OWNER, TENANT AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. 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.
- SHOULD ANY TREE DESIGNATED FOR PRESERVATION FOR WHICH LANDSCAPING CREDIT IS GIVEN, DIE PRIOR TO RELEASE OF BONDS, THE OWNER WILL BE REQUIRED TO REPLACE THE TREE WITH THE EQUIVALENT SPECIES OR WITH A TREE WHICH WILL OBTAIN THE SAME HEIGHT, SPREAD, AND GROWTH CHARACTERISTICS. THE REPLACEMENT TREE MUST BE A MINIMUM OF 3 INCHES IN CALIPER AND INSTALLED AS REQUIRED IN THE HOWARD COUNTY LANDSCAPE MANUAL.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
- FINAL LOCATION OF PLANT MATERIAL MAY NEED TO VARY TO MEET FINAL FIELD CONDITIONS.
- CONTRACTOR SHALL VERIFY PLANT QUANTITIES PRIOR TO BIDDING. IF PLAN DIFFERS FROM LANDSCAPE SCHEDULE, THE PLAN SHALL GOVERN.

LANDSCAPE GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. THE REQUIRED PARKING AND PERIMETER LANDSCAPING WILL BE BONDED PER THIS SUBMISSION.
- FINANCIAL SURETY FOR THE PROPOSED LANDSCAPING AND VINYL FENCE HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT FOR THIS SITE DEVELOPMENT PLAN IN THE AMOUNT OF \$49,090.00 FOR THE PROPOSED 45 SHADE TREES, 166 EVERGREEN TREES, 49 SHRUBS AND 922 LF OF VINYL FENCE.
- ALL LANDSCAPING WITHIN PHASE 2 TO BE PLANTED UPON COMPLETION OF THE PHASE 2 IMPROVEMENTS.

OWNER/DEVELOPER

NEW PATH REFORMED CHURCH INC.
8074 TROTTERS CHASE
ELLICOTT CITY, MD 21043
410-829-8829
CONTACT: TAEBOK LEE
EMAIL: nprchurch@gmail.com

NO.	REVISION	DATE
1	REVISE PLAN FOR DROP OFF AREA TO BE COMPLIANT WITH ADA REQUIREMENTS	5-7-24

**SITE DEVELOPMENT PLAN
LANDSCAPE PLAN, NOTES AND DETAILS;
FOREST CONSERVATION PLAN**

NEW PATH REFORMED CHURCH
10425 CLARKSVILLE PIKE (MD RTE 108)
ELLICOTT CITY, MD

L. 17071 / F. 20
TAX MAP 29 BLOCK 18
5TH ELECTION DISTRICT

ZONED: R-20
PARCEL: 108
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING
TIMMONS GROUP

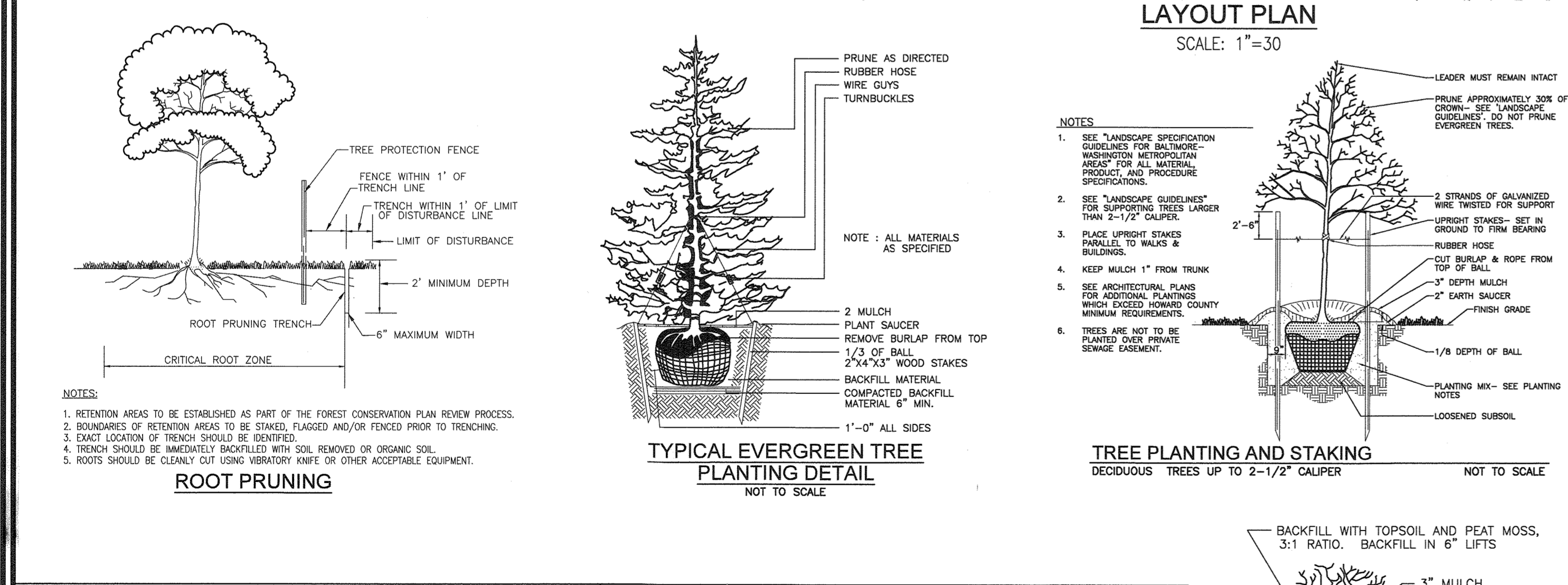
3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

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. MY LICENSE NUMBER IS 01919. EXPIRATION DATE: 09-27-2024

DESIGN BY: RHW/ACS
DRAWN BY: ACS
CHECKED BY: RHW
DATE: JANUARY 2024
SCALE: AS SHOWN
W.C. NO.: 41079

12 SHEET OF 13



SIMPLIFIED FOREST STAND DELINEATION

1. THE SUBJECT PROPERTY IS CURRENTLY ABSENT OF ANY FORMAL IMPROVEMENTS BUT HISTORIC AIR PHOTOS SHOW THAT A DRIVEWAY AND HOME WERE PREVIOUSLY PRESENT ON THE PROPERTY. THE PROPERTY IS NOW MAINTAINED AS MOWED LAWN WITH HERONS ALONG THE PROPERTY BOUNDARIES AND SCATTERED TREED GROVES. THE TREE GROVES ARE MADE UP OF YOUNGER TREES THAT INCLUDE MULBERRY, BOX ELDER, TREE OF HEAVEN, BLACK WALNUT, NORWAY SPRUCE AND RED CEDAR. MULTIFLORA ROSE AND AUTUMN OLIVE ARE COMMON IN THE SHRUB LAYER. IN UNKNOWN AREAS OF THE SITE GARLIC MUSTARD IS COMMON. JAPANESE HONEYSUCKLE, ORNAMENTAL BITTERSWEET, POSIN NY, ENGLISH IVY AND GRAPE VINE ARE ALSO COMMON IN ALL UNMAINTAINED AREAS.

2. A WHITE PINE SCREEN PLANTING IS PRESENT ON THE ADJACENT PROPERTY TO THE REAR OF THE SITE. FORSYTHIA PLANTINGS AND BLACKBERRY ARE PRESENT ALONG THE REAR PROPERTY LINE AS WELL.

3. LARGER SHADE/LANDSCAPING TREES ARE PRESENT ACROSS THE SITE. THESE TREES WERE LIKELY PART OF THE LAWN SETTING WHEN THE SITE WAS ACTIVELY USED AS A RESIDENCE. THESE LARGER TREES RANGE FROM 20-40 INCHES WITH EIGHT SPECIMEN TREES BEING IDENTIFIED. THE LOCATION, SPECIES, SIZE AND CONDITION OF THE SPECIMEN TREES ARE PROVIDED ON THE EXISTING CONDITIONS AND DEMOLITION PLAN, SHEET 2 OF THIS SDP.

4. NO FOREST IS PRESENT ON THE SITE.

5. NO WETLANDS, STREAMS OR BUFFERS ARE PRESENT ON THE PROPERTY.

6. NO STEEP SLOPES ARE PRESENT ON THE PROPERTY.

7. NO 100 YEAR FLOODPLAIN IS PRESENT ON THE PROPERTY.

8. NO HISTORIC ELEMENTS OR CEMETERIES ARE KNOWN TO BE PRESENT ON THE PROPERTY.

9. NO RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED ON THE PROPERTY.

FOREST CONSERVATION ACT COMPLIANCE

ALTHOUGH THE PROPERTY IS ZONED RESIDENTIAL, THE PROPOSED USE WILL BE FOR A CHURCH FACILITY AND THEREFORE THE PROJECT DOES NOT QUALIFY FOR THE SINGLE LOT EXEMPTION FROM THE FOREST CONSERVATION ACT REQUIREMENTS, AS SUCH, THE PROJECT WILL BE REQUIRED TO PROVIDE 15% AFForestation, OR 0.30 ACRES. IN ADDITION, REMOVAL OF THE SPECIMEN TREES WILL REQUIRE SPECIFIC APPROVAL FROM THE COUNTY AND WILL GENERATE A MITIGATION OBLIGATION OF TWO 3" DBH TREES PER SPECIMEN TREE REMOVED.

GENERAL NOTES

- THE COORDINATES AND ELEVATIONS SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL, WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM - NAD83(1991), HOWARD COUNTY MONUMENT NUMBERS 29F AND 30DC WERE USED FOR THIS PROJECT.
- THE PROPERTY LINES SHOWN HEREON IS BASED ON A BOUNDARY SURVEY PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED MARCH 22, 2018.
- THE EXISTING TOPOGRAPHY SHOWN HEREON IS BASED ON A FIELD TOPOGRAPHICAL SURVEY WITH 2'-FOOT CONTOUR INTERVALS, PERFORMED BY ROBERT H. VOGEL ENGINEERING, INC., DATED JANUARY 25, 2018. OFFSITE AND SUPPLEMENTAL TOPOGRAPHY FROM HOWARD COUNTY GIS.
- THE SUBJECT PROPERTY IS ZONED R-20 PER THE 10/06/2013 COMPREHENSIVE ZONING PLAN.
- THIS PROPERTY IS LOCATED WITHIN THE METROPOLITAN DISTRICT.
- EXISTING CLARKSVILLE PIKE (MD 108) IS A STATE ROAD CLASSIFIED AS A MINOR ARTERIAL.
- MARYLAND 12-0017 WATERSHED NUMBER: 02130008, WATERSHED NAME: S BRANCH PATAPSCO

FOREST CONSERVATION WORKSHEET FOR NEW PATH REFORMED CHURCH

Net Tract Area

A. Total (Gross) Tract Area	A = 1.70
B. Area within 100-year Floodplain	B = 0.00
C. Other Deductions (Identify)	C = 0.00
D. Net Tract Area	D = 1.70

Land Use Category

Insert the number "1" under the appropriate land use (limit to only one entry)

Revised	Revised	Int'l	Revised/Added/Used	
Rural/Ed	Rural/MD Suburban	Linear	Office	PAID
0	0	0	0	0

Existing Forest Cover

G. Existing Forest Cover within the Net Tract Area	G = 0.00
H. Area of Forest above Afforestation Threshold	H = 0.00
I. Area of Forest above Restoration Threshold	I = 0.00

Break Even Point

J. Break Even Point	J = 0.00
K. Forest Clearing Permitted without Mitigation	K = 0.00

Proposed Forest Clearing

L. Total Area of Forest to be Cleared	L = 0.00
M. Total Area of Forest to be Retained	M = 0.00

Planting Requirements Inside Watershed

N. Reafforestation for Clearing above the Afforestation Threshold	N = 0.00
P. Reafforestation for Clearing below the Afforestation Threshold	P = 0.00
Q. Credit for Retention above the Afforestation Threshold	Q = 0.00
R. Total Reafforestation Required	R = 0.00
S. Total Afforestation Required	S = 0.30
T. Total Reafforestation and Afforestation Requirement	T = 0.30
U. 20% of Total Obligation (Retention + Planting)	U = 0.20
V. Planting Required Onsite to meet 70% Obligation	V = 0.20

Planting Requirements Outside Watershed

W. Total Planting within Development Site Watershed	W = 0.00
X. Total Afforestation Required	X = 0.30
Y. Remaining Planting within Watershed for Reafforestation Credit	Y = 0.00
Z. Reafforestation for Clearing above the Afforestation Threshold	Z = 0.00
AA. Reafforestation for Clearing below the Afforestation Threshold	AA = 0.00
BB. Credit for Retention above the Afforestation Threshold	BB = 0.00
CC. Total Reafforestation Required	CC = 0.00
DD. Total Afforestation and Reafforestation Requirement	DD = 0.30

Date: 8/22/2022

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: *Chad Edmondson* 2/19/2024

Chief, Division of Land Development: *Lynda Eschberg* 2/12/2024

Director: *Lynda Eschberg* 2/19/2024

DEVELOPER'S/BUILDER'S CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

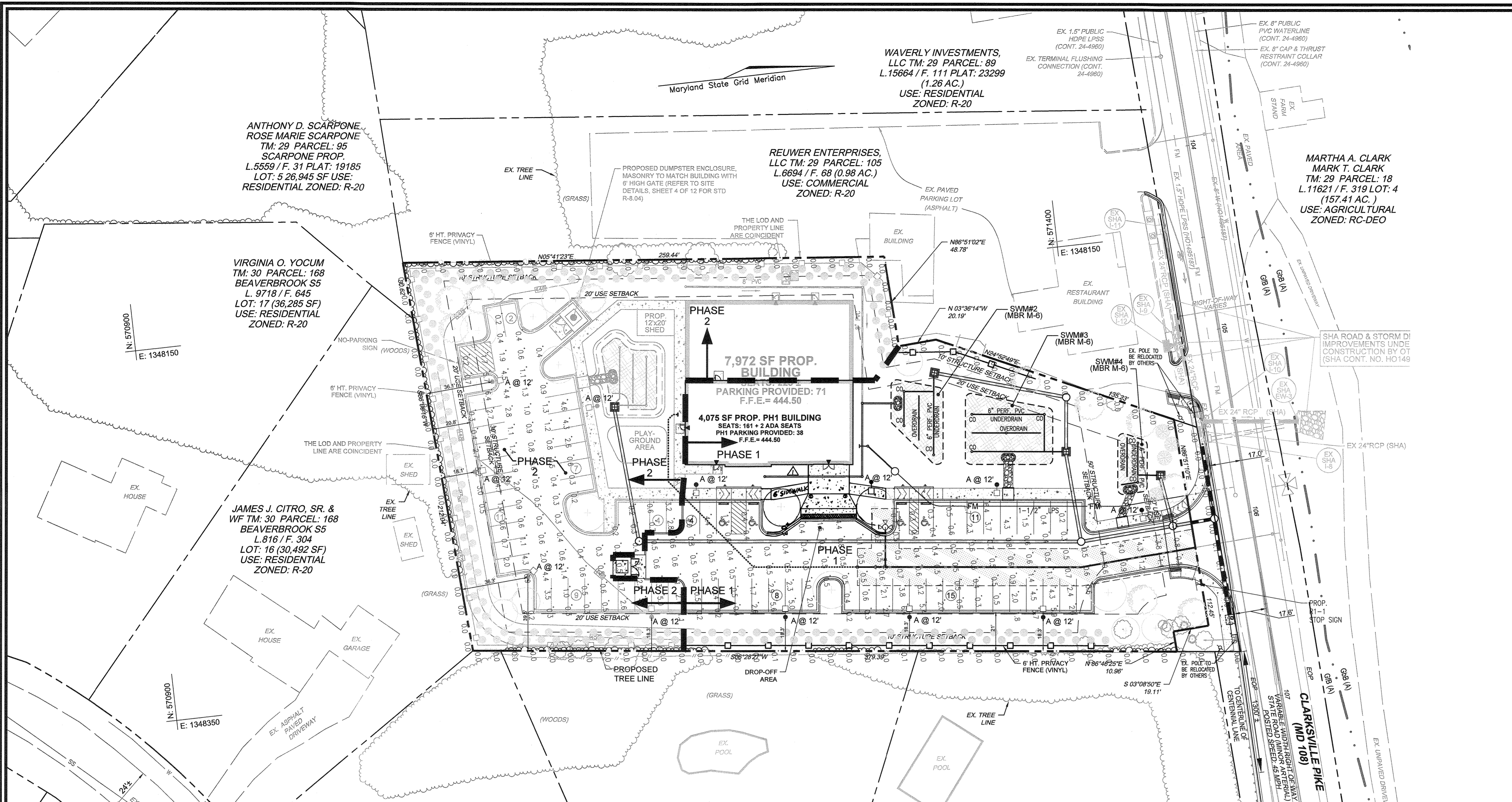
Taebok Lee 1/26/2024
SIGNATURE OF DEVELOPER DATE

Eco-Science Professionals, Inc.
CONSULTING ENGINEERS

J. Brody McAllister
ISA Certified Arborist
Cert # 044214
MD DNR FCA Qualified Professional

Robert H. Vogel
Professional Engineer
No. 16193

IN ACCORDANCE WITH SECTION 16.1200 OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS, THIS PROJECT IS SUBJECT TO FOREST CONSERVATION. THE TOTAL AFForestation REQUIREMENT OF 0.30 ACRES HAS BEEN FULFILLED THROUGH THE PURCHASE OF CREDITS FROM THE HMBL PROPERTY RETENTION BANK (SDP-05-132). PROPERTY LOCATION IS: 17344 FREDERICK RD, MT ARRY, MD 21771. BACK 12-0017 NUMBER: 021300081028. PART OF 8-007 WATERSHED NUMBER: 02130008, WATERSHED NAME: S BRANCH PATAPSCO



PLAN VIEW
SCALE 1"=30'

RSX1 LED Area Luminaire

Specifications

- Height: 6.57 ft (19.99 m)
- Width: 21.25 ft (6.48 m)
- Length: 13.17 ft (4.01 m)
- Weight: 37.0 lb (16.8 kg)
- Depth: 2.0 ft (0.61 m)

Introduction

The new RSX1 LED Area luminaire delivers maximum value by providing significant energy savings, long life and outstanding photometric performance as an all-in-one package. The RSX1 luminaire is a 12000 luminaire designed to replace 10W to 400W HPS luminaires.

The RSX1 features an integral armless mounting mechanism that allows the luminaire to be mounted on most existing grid-like patterns. This "no-drill" solution provides significant labor savings. An ergonomic design on the bottom of mounting arm allows for setting without operating the electrical components. A multi-arm adaptive adjustment, integral diffuser and other mounting configurations are available.

Ordering Information

Ordering Information	Example: RSX1 LED P4 400 R3 MVOLT SPA DDBX0
RSX1	RSX1
P4	P4
400	400
R3	R3
MVOLT	MVOLT
SPA	SPA
DDBX0	DDBX0

Ordering Information

Accessories

- House Side Shield
- External Glass Shield
- External 360° Full View

Mounting Information

Accessories including diffusers, cross arms and other options are available under the accessories tab at Lithonia's Custom Poles and Arms product page.

Round Tension Mount Pole Top Spigots

Spigot	1.5" Dia	2.0" Dia	2.5" Dia	3.0" Dia	3.5" Dia	4.0" Dia	4.5" Dia	5.0" Dia
Weight (lb)	0.15	0.25	0.40	0.60	0.85	1.20	1.60	2.10
Weight (kg)	0.07	0.11	0.18	0.27	0.38	0.54	0.73	0.95

RSX1 Luminaire EPA

Model	Wattage (W)	Efficiency (%)	Beam Spread (deg)	Foot Candles (fc)	Foot Candles (m)
RSX1 P4 400 R3	400	100%	120	1.5	0.15
RSX1 P4 400 R3	400	100%	120	1.5	0.15

OWNER/DEVELOPER
NEW PATH REFORMED CHURCH INC.
8074 TROTTERS CHASE
ELICOTT CITY, MD 21043
410-828-8829
CONTACT: TAEBOK LEE
EMAIL: nprchurch@gmail.com

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Total Lumens	Wattage	Efficiency	Plot
A			12	Lithonia Lighting	RSX1 LED P1 30K R4S MVOLT SPA HS DDBX0 4 SSA 12 4C DM19AS DDBX0	RSX1 LED Area Luminaire Size 1 P1 Lumen Package 3000K CCT Type R4S Distribution with HS shield	1	4427	0.9	4427	51.34	100%	Max: 4017cd

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
PARKING	+	1.5 fc	6.9 fc	0.2 fc	34.5:1	7.5:1

Note

- Calculation planes at grade unless otherwise stated in the Statistics chart.
- Mounting height(s) noted in drawing.

SSA Square Straight Aluminum Poles

Designation	Height (ft)	Weight (lb)	Wind Speed (mph)	Wind Load (psf)	Max. Deflection (in)	Max. Moment (ft-lb)	Max. Shear (lb)	Max. Tension (lb)	Max. Compression (lb)
SSA 10	10	100	100	10	1.0	100	100	100	100
SSA 15	15	150	150	15	1.5	150	150	150	150
SSA 20	20	200	200	20	2.0	200	200	200	200

SSA Square Straight Aluminum Poles

Designation	Height (ft)	Weight (lb)	Wind Speed (mph)	Wind Load (psf)	Max. Deflection (in)	Max. Moment (ft-lb)	Max. Shear (lb)	Max. Tension (lb)	Max. Compression (lb)
SSA 25	25	250	250	25	2.5	250	250	250	250
SSA 30	30	300	300	30	3.0	300	300	300	300
SSA 35	35	350	350	35	3.5	350	350	350	350

LITHONIA LIGHTING

FEATURES & SPECIFICATIONS

DESCRIPTION: The RSX1 LED Area luminaire is a high-bay, high-output luminaire designed for industrial and commercial applications. It features a wide beam spread and high lumen output, making it ideal for large areas. The luminaire is constructed from durable materials and is designed for long life and energy efficiency.

INSTALLATION: The RSX1 LED Area luminaire is designed for easy installation. It features a simple, armless mounting system that can be installed on most existing grid-like patterns. The luminaire is also designed to be compatible with a wide range of mounting arms and accessories.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Designed by: *Chad Edmondson* 2/19/2024

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 2/12/2024

CHIEF, DIVISION OF PLANNING & DEVELOPMENT DATE 2/19/2024

DIRECTOR *Linda Eisenberg* DATE

FEDERATED LIGHTING

PHOTOMETRIC ANALYSIS PROVIDED BY FEDERATED LIGHTING DATED 08-31-2022

SITE DEVELOPMENT PLAN

PHOTOMETRIC PLAN

NEW PATH REFORMED CHURCH
10425 CLARKSVILLE PIKE (MD RTE 108)
ELICOTT CITY, MD

ZONED: R-20 PARCEL 108
8074 TROTTERS CHASE
ELICOTT CITY, MD 21043
HOWARD COUNTY, MARYLAND

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELICOTT CITY, MD 21043
P: 410.461.7666 F: 410.461.8961 www.timmons.com

PROFESSIONAL CERTIFICATE

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. 18183, EXPIRATION DATE: 09-27-2024

DESIGN BY: RHW/ACS
DRAWN BY: ACS
CHECKED BY: RHW
DATE: MAY 2023
SCALE: AS SHOWN
W.O. NO.: 41079

13 SHEET OF 13