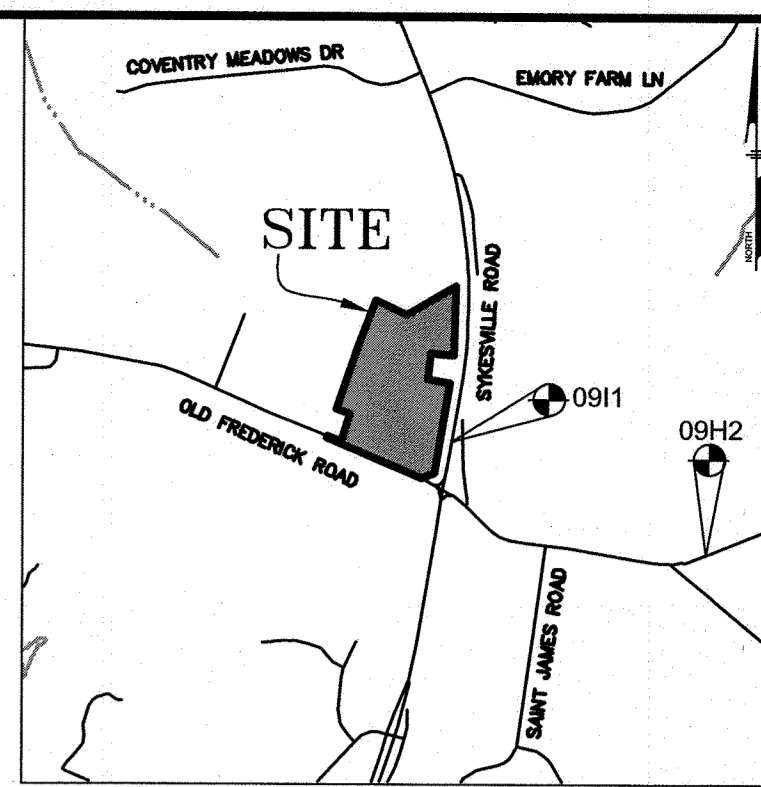


SHEET INDEX	
NO	DESCRIPTION
1	COVER SHEET
2	OVERALL EXISTING CONDITIONS PLAN
3	ENVIRONMENTAL CONCEPT PLAN
4	ENVIRONMENTAL CONCEPT PLAN
5	STORMWATER DETAILS

ENVIRONMENTAL CONCEPT PLAN

HOLY KOREAN MARTYRS CATHOLIC CHURCH

1740 SYKESVILLE RD 3RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2,000'
HOWARD COUNTY
ADC MAP 41 GRID D-1
ADC MAP USE LICENSE #3652

DESIGN NARRATIVE

NATURAL RESOURCE PROTECTION AND ENHANCEMENT
EXISTING NATURAL RESOURCE FEATURES ON THIS PROPERTY CONSIST OF FORESTED AREAS, SPECIMEN TREES, A WETLAND AREA, AND LIMITED STEEP SLOPES. MUCH OF THE PROPERTY IS OPEN FARM FIELDS, OR MAINTAINED LAWN AREA ASSOCIATED WITH THE EXISTING HOUSE. WITH THE PROPOSED DESIGN, EXISTING NATURAL FEATURES AND FLOW PATTERNS HAVE BEEN MAINTAINED AND RECHARGE OF GROUNDWATER WILL BE PROVIDED, ENHANCING THE WATER QUALITY FOR DOWNSTREAM FEATURES. THE SITE IMPROVEMENTS, STORM WATER MANAGEMENT, AND SEDIMENT CONTROLS ASSOCIATED WITH THE DEVELOPMENT WILL NOT RESULT IN ANY CLEARING. THE FOREST ON-SITE WILL BE MAINTAINED, AS WILL THE VAST MAJORITY OF THE SPECIMEN TREES. NO IMPACTS TO COUNTY REGULATED STEEP SLOPES ARE PROPOSED WITH THIS PLAN. NO WETLAND IMPACTS ARE PROPOSED WITH THIS PLAN.

MAINTENANCE OF NATURAL FLOW PATTERNS
NATURAL FLOW PATTERNS ON THIS SITE GENERALLY DIRECT WATER TO THE NORTH SOUTH, EAST, AND WEST. THE SITE SITS AT A NATURAL HIGH POINT. THESE FLOW PATTERNS WILL BE MAINTAINED WITH THIS DEVELOPMENT.

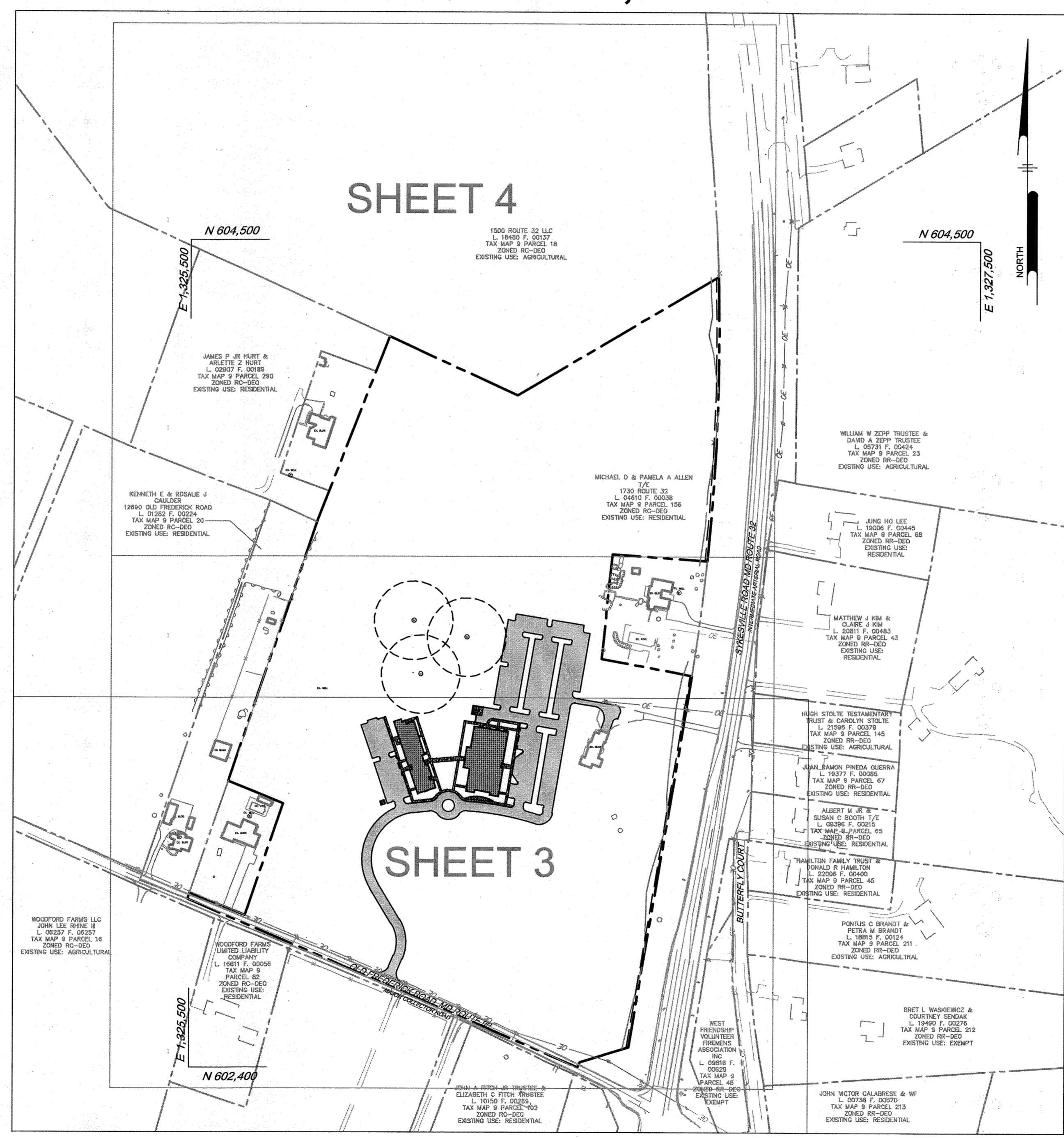
REDUCTION OF IMPERVIOUS AREAS
IMPERVIOUS AREAS WILL BE KEPT TO A MINIMUM. DUE TO THE CURRENT CONDITION OF THE SITE AS A FARM FIELD, OPEN LAWN, AREA, AND WOODED AREA, WITH A MINIMAL AMOUNT OF IMPERVIOUS AREA, THERE WILL BE AN INCREASE IN IMPERVIOUS AREA, BUT WITH RESPECT TO THE OVERALL SITE ACREAGE, THE AMOUNT OF PROPOSED IMPERVIOUS AREA IS STILL RELATIVELY SMALL.

INTEGRATION OF SEDIMENT CONTROL FEATURES
SEDIMENT CONTROL FOR THIS SITE WILL BE PROVIDED BY STABILIZED CONSTRUCTION ENTRANCES, AND PERIMETER CONTROLS LIKELY CONSISTING OF SUPER SILT FENCE. SEDIMENT TRAPPING DEVICES WILL BE EVALUATED AT TIME OF FINAL DESIGN, BUT THERE ARE LIMITED POINT DISCHARGES FROM THIS SITE, SO PERIMETER CONTROLS LIKE SUPER SILT FENCING WILL LIKELY BE SUFFICIENT. A STOCKPILE AREA WILL BE PROVIDED ON THE SITE. SEDIMENT CONTROL DESIGN WILL INCLUDE A DETAILED SEQUENCE OF CONSTRUCTION TO MINIMIZE OFFSITE IMPACTS AND TO REQUIRE THE INSTALLATION OF THE STORM WATER FEATURES IN SUCH A MANNER THAT THEY WILL FUNCTION FULLY UPON COMPLETION OF CONSTRUCTION.

IMPLEMENTATION OF ESD PLANNING TECHNIQUES AND PRACTICES
ESDV FOR THIS PROJECT IS PROVIDED THROUGH THE USE OF MICRO-BIORETENTION FACILITIES AND BIOSWALES. MICRO-BIORETENTION FACILITIES (MDE DESIGNATION M-6) AND BIOSWALES (MDE DESIGNATION M-8) WILL BE PROVIDED THROUGHOUT THE PROJECT SITE TO TREAT ROOF AND PAVEMENT AREAS. FOR THIS PROJECT A TARGET P_e OF 1.79" HAS BEEN CALCULATED. THE ACHIEVED P_e IS 2.25" WITH THIS PRELIMINARY DESIGN. THE DEVELOPMENT REQUIRES THAT A TOTAL OF 22,224 CF OF ESDV BE PROVIDED. WITH THE FACILITIES OUTLINED ABOVE, A TOTAL OF 27,929 CF OF ESDV HAS BEEN PROVIDED WITH THIS PRELIMINARY DESIGN. THE ESDV PROVIDED HAS BEEN MET IN THE STONE BELOW THE FACILITIES AND THE STORAGE ABOVE THE PLANTING MEDIA, PER HOWARD COUNTY REQUIREMENTS. THE DESIGN WILL BE REFINED AT TIME OF SITE DEVELOPMENT PLAN.

GENERAL NOTES

- THE AERIAL TOPOGRAPHY IS PROVIDED BY PENNONI ASSOCIATES, INC., DATED JULY 7, 2023 AND HAS BEEN SUPPLEMENTED BY HOWARD COUNTY GIS INFORMATION.
- THE BOUNDARY SURVEY IS PROVIDED BY PENNONI ASSOCIATES, INC., DATED JUNE 6, 2023, AND HAS BEEN SUPPLEMENTED BY HOWARD COUNTY GIS INFORMATION.
- THE COORDINATES SHOWN HEREON ARE IN MARYLAND COORDINATE SYSTEM NAD 83/91 BASED ON THE HOWARD COUNTY GEODETIC CONTROL. HOWARD COUNTY MONUMENT NOS. 43HB AND 43HC WERE USED FOR THIS PROJECT.
- WATER IS PRIVATE.
- SEWER IS PRIVATE.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- A 100-YEAR FLOODPLAIN STUDY FOR THIS PROJECT IS NOT REQUIRED.
- WETLANDS, AND WETLAND BUFFERS, ARE PRESENT ON THE PROPERTY. FOREST RESOURCES AND STEEP SLOPES ARE PRESENT ON THE SITE.
- SUBJECT PROPERTY ZONED RC-DEO PER THE OCTOBER 6, 2013 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED NAVD88.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- THERE IS ONE EXISTING BUILDING ON THE SITE.
- BASED ON AVAILABLE COUNTY MAPS AND RECORDS, THERE ARE NO HISTORIC STRUCTURES OR KNOWN CEMETERIES LOCATED ON THE SUBJECT PROPERTY.
- EXISTING SPECIMEN TREES ARE PRESENT ON THE SITE.
- APPROVAL OF THIS ECP DOES NOT CONSTITUTE AN APPROVAL OF ANY SUBSEQUENT AND ASSOCIATED SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN AND/OR RED-LINE REVISION PLAN. REVIEW OF THIS PROJECT FOR COMPLIANCE WITH THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SHALL OCCUR AT THE SUBDIVISION PLAN/PLAT AND/OR SITE DEVELOPMENT PLAN STAGES AND/OR RED-LINE REVISION PROCESS. THE APPLICANT AND CONSULTANT SHOULD EXPECT ADDITIONAL AND MORE DETAILED REVIEW COMMENTS (INCLUDING COMMENTS THAT MAY ALTER THE OVERALL SITE DESIGN) AS THIS PROJECT PROGRESSES THROUGH THE PLAN REVIEW PROCESS.
- FOREST CONSERVATION FOR THIS PROJECT WILL BE PROVIDED BY ON-SITE RETENTION.
- A PERCOLATION CERTIFICATION PLAN FOR THIS PROJECT WAS APPROVED ON NOVEMBER 2, 2021.
- NO DESIGN MANUAL WAIVERS OR ALTERNATIVE COMPLIANCE REQUESTS ARE PLANNED FOR THIS PROJECT AT THIS TIME.
- A GREATER BUILDING SETBACK IS REQUIRED DUE TO THE PROPOSED BUILDING HEIGHT. ONCE THE PROPOSED BUILDING HEIGHT IS DETERMINED THIS WILL BE ADDRESSED.
- PER CORRESPONDENCE DATED APRIL 1, 2024, THE HOWARD COUNTY ZONING DIVISION CHIEF DETERMINED THE CHANGES TO THE APPROVED CONDITIONAL USE PLAN EXHIBIT WERE MINOR MODIFICATIONS WHICH DOES NOT REQUIRE APPROVAL BY THE HEARING AUTHORITY PER SECTION 131.01.2.c. OF THE HOWARD COUNTY ZONING REGULATIONS.



LOCATION PLAN
SCALE: 1" = 200'

SITE ANALYSIS DATA

AREA OF SITE:	37.24 ACRES (1,622,138 SF)
LIMIT OF DISTURBANCE:	8.38 ACRES (365,001 SF)
PRESENT ZONING:	RC-DEO (RURAL CONSERVATION - DENSITY EXCHANGE OPTION)
EXISTING USE:	FARMLAND WITH ONE RESIDENCE
PROPOSED USE:	CHURCH
PARKING REQUIRED:	10 SPACES PER 1,000 SF OF ASSEMBLY AREA 10 x 14,208/1,000 = 143 SPACES REQUIRED
PARKING PROVIDED:	224 SPACES (8 ADA ACCESSIBLE)
AREA OF WETLANDS:	0.07 ACRES (3,256 SF)
AREA OF WETLAND BUFFERS:	0.22 ACRES (9,638 SF)
AREA OF STREAM BUFFERS:	0.00 ACRES (0.00 SF)
AREA OF FLOODPLAIN:	0.00 ACRES (0.00 SF)
EX. FOREST AREA:	12.37 ACRES (538,837 SF)
AREA OF STEEP SLOPES:	15%-25%: 0.67 ACRES ± (29,174 SF ±) 25%+: 0.13 ACRES ± (5,503 SF ±)
AREA OF ERODIBLE SOILS:	0.00 ACRES (0.00 SF)
IMPERVIOUS AREA:	EXISTING: 10,436 SF (0.24 ACRES) PROPOSED: 144,645 SF (3.32 ACRES)
BUILDING COVERAGE:	140,830 SF / 1,622,138 SF = 8.68%
GREEN AREA WITHIN:	EXISTING: 0.00 SF PROPOSED: 14,720 SF ±
ZONE RC SETBACKS:	

PRINCIPAL STRUCTURES - FROM COLLECTOR OR ARTERIAL PUBLIC STREET RIGHT-OF-WAY: 75 FEET
FRONT: 75 FEET
SIDE - FROM PUBLIC STREET RIGHT-OF-WAY: 60 FEET
SIDE - PRINCIPAL STRUCTURE FROM LOT LINE: 30 FEET
REAR - ALL STRUCTURES - FROM PUBLIC STREET RIGHT-OF-WAY: 75 FEET
REAR - PRINCIPAL STRUCTURE: 60 FEET

ZONE RC BUILDING HEIGHTS:
PRINCIPAL STRUCTURES WITH GABLE, HIP, OR GAMBREL ROOFS: 40 FEET
PRINCIPAL STRUCTURES WITH OTHER ROOF TYPES: 34 FEET

ZONE DEO SETBACKS:
SETBACKS AND BUILDING HEIGHTS SHALL BE AS REQUIRED FOR THE UNDERLYING DISTRICT (RC ZONE)

BENCHMARKS

HOWARD COUNTY SURVEY CONTROL: 09H2
ELEVATION 640.219
N 601676.694 E 1528521.045
LOCATION IS 10.7' FROM FACE OF CURB ALONG OLD FREDERICK RD.

HOWARD COUNTY SURVEY CONTROL: 09H1
ELEVATION 652.433
N 602689.349 E 1326821.526
LOCATION IS 37.9' FROM FACE OF CURB ALONG SYKESVILLE RD.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief Development Engineer
CHIEF DEVELOPMENT ENGINEERING DIVISION
DATE: 7-29-24

Chief, Division of Land Development
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/29/24

DATE	NO.	REVISION	BY

DEVELOPER
HOLY KOREAN MARTYRS CATHOLIC CONGREGATION, INC.
5801 SECURITY BLVD
BALTIMORE, MD 21207
ATTN: MATTHEW REGAN
PHONE: 410-547-5386

OWNER
WILLIAM H. KEELER, CARDINAL
C/O DIVISION OF FACILITIES & REAL ESTATE
320 CATHEDRAL STREET
BALTIMORE, MD 21201

PROJECT
HOLY KOREAN MARTYRS CATHOLIC CHURCH

AREA
TAX MAP 9, PARCEL 21 ZONED RC-DEO
GRID NO. 23 3RD ELECTION DISTRICT
1740 SYKESVILLE RD
SYKESVILLE, MD 21784
HOWARD COUNTY, MARYLAND

TITLE
COVER SHEET

Pennonni Pennonni Associates Inc.
Engineers • Surveyors • Planners
Landscape Architects

8890 McGaw Rd, Suite 100 Columbia, MD 21045
T 410.997.8900 F 410.997.9282

DESIGNED BY: JSN/CR
DRAWN BY: JSN/CR
PROJECT NO.: ABAL21001
DATE: JULY 3, 2024
SCALE: 1" = 200'
DRAWING NO. 1 OF 5

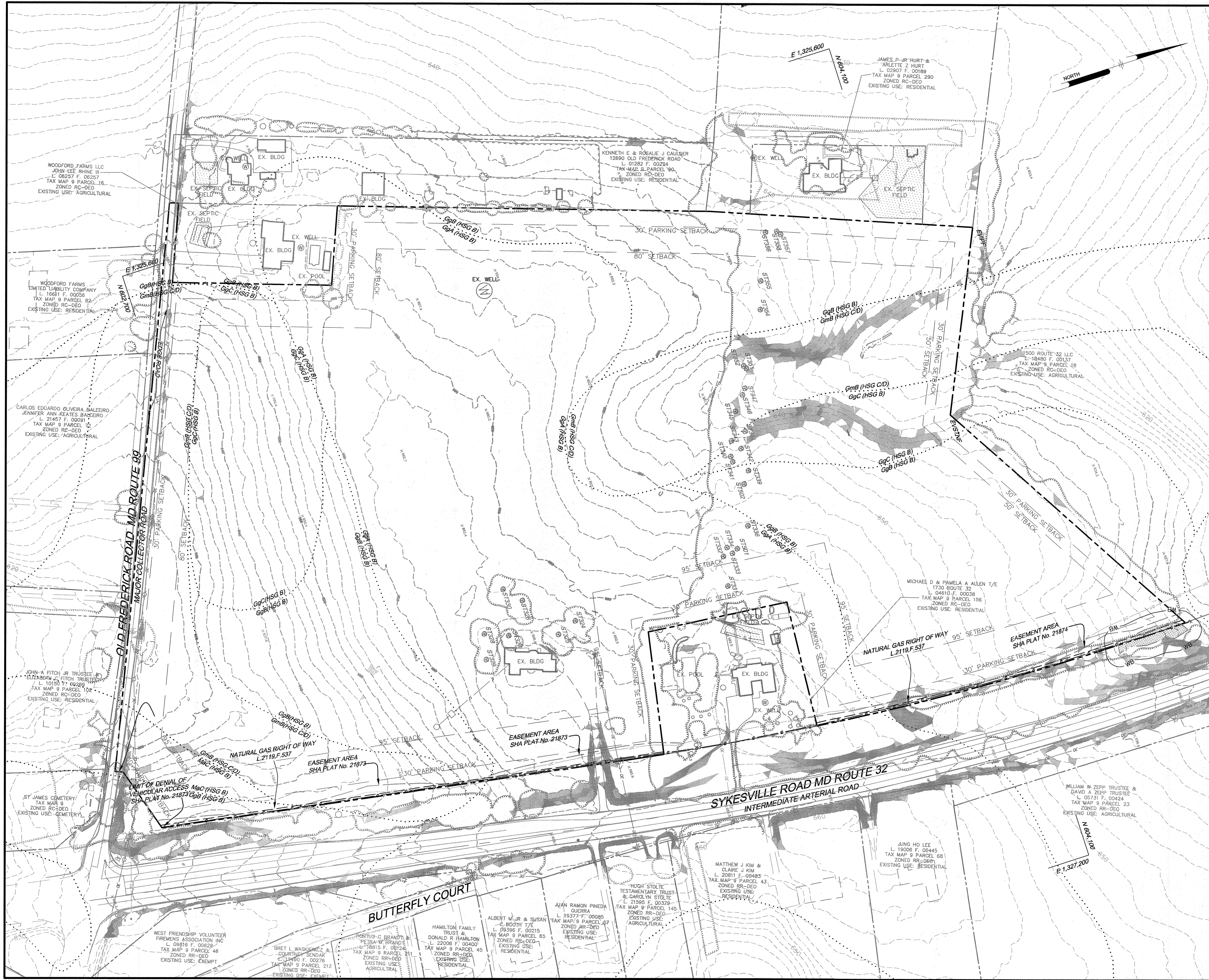
SOILS TABLE							
MAP SYMBOL	NAME	STRUCTURAL LIMITATIONS DWELLINGS WITH BASEMENTS	EROSION HAZARD	HYDRIC	SLOPE (%)	SOIL GROUP	K FACTOR
GgA	Glenelg loam	Not Limited	Low	No	0-3%	B	.24
GgB	Glenelg loam	Not Limited	Low	No	3-8%	B	.24
GgC	Glenelg loam	Somewhat Limited	Moderate	No	8-15%	B	.24
GmB	Glenville silt loam	Very Limited	Low	No	3-8%	C/D	.37
MaC	Manor loam	Somewhat Limited	Moderate	No	8-15%	B	.28

SOURCE: NATURAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY.

ADDRESS CHART					
PARCEL NUMBER	STREET ADDRESS				
21	1740 ROUTE 32				

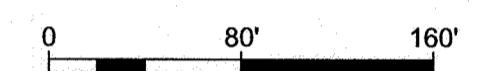
SUBDIVISION NAME	SECT./AREA	PARCEL
		21

PLAT NO.	GRID #	ZONING	TAX MAP NO.	ELECT. DIST.	CENSUS TRACT
04044/00623	23	RC-DEO	9	3	603003



LEGEND

EXISTING 2' CONTOUR	---
EXISTING 10' CONTOUR	---
EX. PROPERTY LINE AND RIGHT OF WAY	---
EXISTING SETBACKS	---
EXISTING ROADS	---
EX. TREELINE	---
15-25% SLOPES	---
>25% SLOPES	---
EXISTING BUILDING	---
SOIL TYPES	GgA GgC
EXISTING SEPTIC FIELD	---
EXISTING STORM DRAIN	---
EXISTING GAS	---
OVERHEAD UNDERGROUND ELECTRICAL	---
EXISTING WELL	---
SPECIMEN TREE	---
EXISTING WETLANDS	---
EXISTING WETLAND BUFFER	WB



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Chamberlain 7/29/24
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Michelle Sauer 7/10/24
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION	BY

DEVELOPER
 HOLY KOREAN MARTYRS CATHOLIC CONGREGATION, INC.
 5801 SECURITY BLVD
 BALTIMORE, MD 21207
 ATTN: MATTHEW REGAN
 PHONE: 410-547-5386

OWNER
 WILLIAM H. KEELER, CARDINAL
 C/O DIVISION OF FACILITIES & REAL ESTATE
 320 CATHEDRAL STREET
 BALTIMORE, MD 21201

PROJECT
HOLY KOREAN MARTYRS CATHOLIC CHURCH

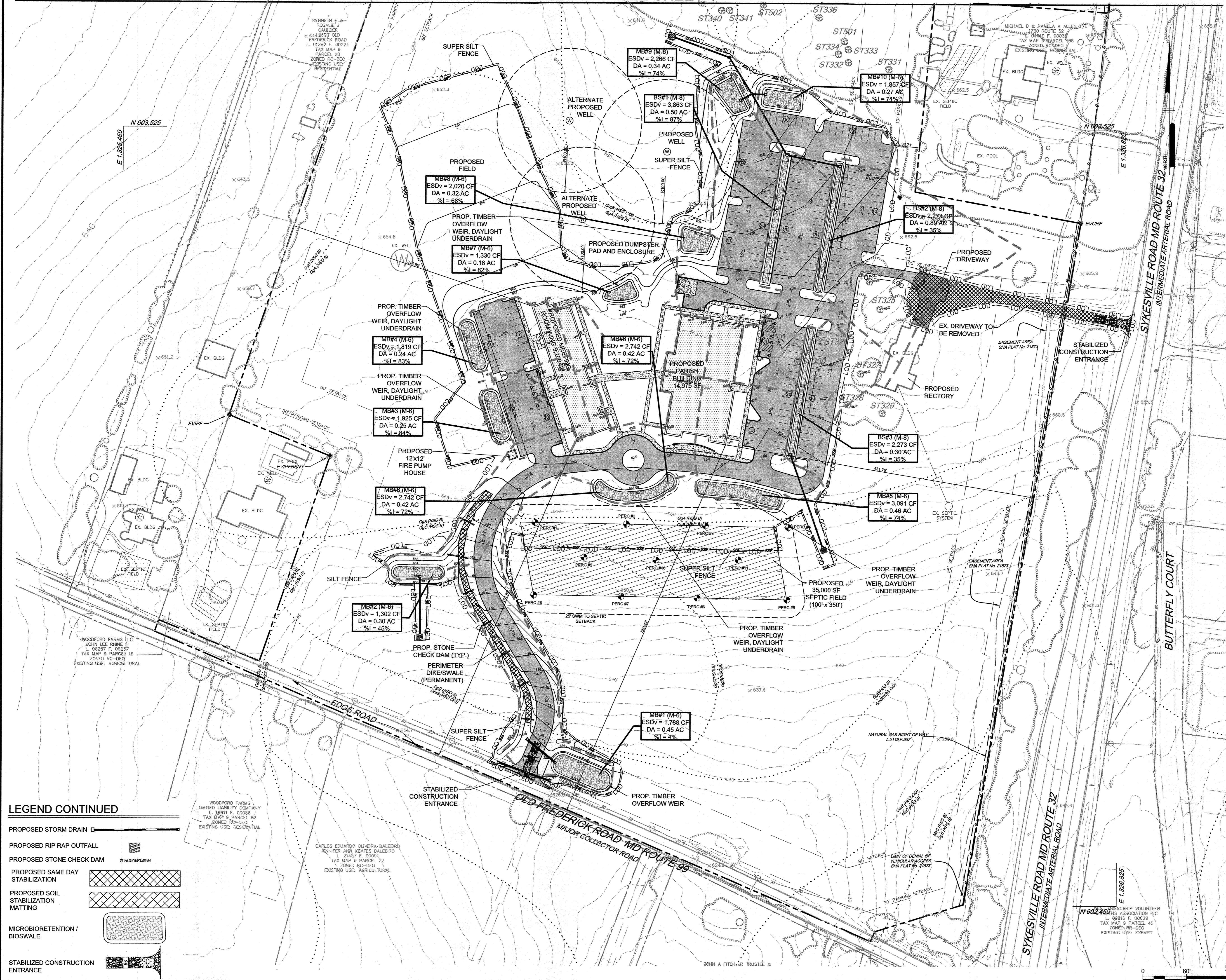
AREA
 TAX MAP 9, PARCEL 21 ZONED RC-DEO
 GRID NO. 23 3RD ELECTION DISTRICT
 1740 SYKESVILLE RD
 SYKESVILLE, MD 21784
 HOWARD COUNTY, MARYLAND

TITLE
OVERALL EXISTING CONDITIONS PLAN

Pennoni Associates Inc.
 Engineers • Surveyors • Planners
 Landscape Architects
 8890 McGaw Rd, Suite 100 Columbia, MD 21045
 T 410.997.8900 F 410.997.9282

SEAL

DESIGNED BY: JSN/CR
 DRAWN BY: JSN/CR
 PROJECT NO: ABAL21001
 DATE: JULY 3, 2024
 SCALE: 1" = 80'
 DRAWING NO. 2 OF 5



LEGEND

EXISTING 2' CONTOUR	---
EXISTING 10' CONTOUR	---
EX. PROPERTY LINE AND RIGHT OF WAY	---
EXISTING SETBACKS	---
EXISTING ROADS	---
EX. TREELINE	---
EXISTING BUILDING	---
SOIL TYPES	GgA GgC
EXISTING SEPTIC FIELD	---
EXISTING STORM DRAIN	---
EXISTING GAS OVERHEAD UNDERGROUND ELECTRICAL	---
PROPOSED 2' CONTOUR	---
PROPOSED 10' CONTOUR	---
EXISTING WELL	---
PROPOSED SEPTIC FIELD	---
PROPOSED WELL	---
PROPOSED ASPHALT PAVING	---
PROPOSED CONCRETE PAVING	---
PROPOSED BUILDING	---
LIMIT OF DISTURBANCE	LOD
PROPOSED SPOT ELEVATIONS	62.00
SPECIMEN TREE	---
SWM DRAINAGE AREA	---
SILT FENCE	---
SUPER SILT FENCE	---

LEGEND CONTINUED

PROPOSED STORM DRAIN	---
PROPOSED RIP RAP OUTFALL	---
PROPOSED STONE CHECK DAM	---
PROPOSED SAME DAY STABILIZATION	---
PROPOSED SOIL STABILIZATION MATTING	---
MICROBIORETENTION / BIOSWALE	---
STABILIZED CONSTRUCTION ENTRANCE	---

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chad Plumb
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 7/29/24

William Sauer
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/10/24

DATE	NO.	REVISION	BY

DEVELOPER
HOLY KOREAN MARTYRS CATHOLIC CONGREGATION, INC.
5801 SECURITY BLVD
BALTIMORE, MD 21207
ATTN: MATTHEW REGAN
PHONE: 410-547-5386

OWNER
WILLIAM H. KEELER, CARDINAL
C/O DIVISION OF FACILITIES & REAL ESTATE
320 CATHEDRAL STREET
BALTIMORE, MD 21201

PROJECT
HOLY KOREAN MARTYRS CATHOLIC CHURCH

AREA
TAX MAP 9, PARCEL 21 ZONED RC-DEO
GRID NO. 23 3RD ELECTION DISTRICT
1740 SYKESVILLE RD
SYKESVILLE, MD 21784
HOWARD COUNTY, MARYLAND

TITLE
ENVIRONMENTAL CONCEPT PLAN

Pennoni Associates Inc.
Engineers • Surveyors • Planners
Landscape Architects

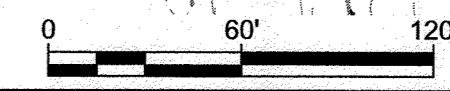
8890 McGaw Rd, Suite 100 Columbia, MD 21045
T 410.997.8900 F 410.997.9282

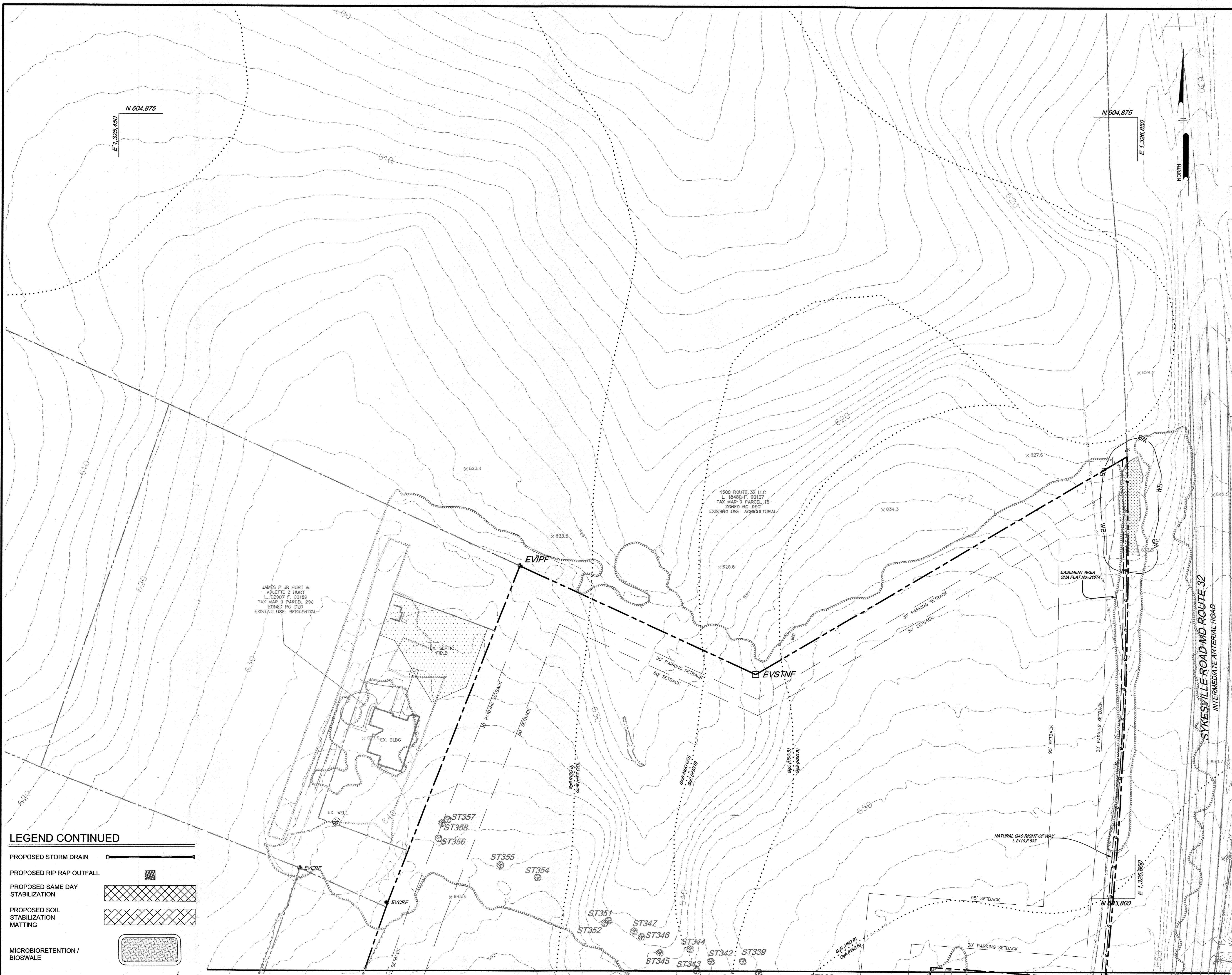
SEAL

DESIGNED BY: JSN/CR
DRAWN BY: JSN/CR
PROJECT NO: ABAL21001
DATE: JULY 3, 2024
SCALE: 1" = 60'
DRAWING NO. 3 OF 5

BY: *JSN/CR* 7.3.24

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 3086. EXPIRATION DATE: 10-10-2025.





LEGEND

EXISTING 2' CONTOUR	232
EXISTING 10' CONTOUR	230
EX. PROPERTY LINE AND RIGHT OF WAY	
EXISTING SETBACKS	
EXISTING ROADS	
EX. TREELINE	
EXISTING BUILDING	
SOIL TYPES	GgA GgC
EXISTING SEPTIC FIELD	
EXISTING STORM DRAIN	
EXISTING GAS	
OVERHEAD UNDERGROUND ELECTRICAL	
PROPOSED 2' CONTOUR	852
PROPOSED 10' CONTOUR	850
EXISTING WELL	
PROPOSED SEPTIC FIELD	
PROPOSED WELL	
PROPOSED ASPHALT PAVING	
PROPOSED CONCRETE PAVING	
PROPOSED BUILDING	
LIMIT OF DISTURBANCE	LOD
PROPOSED SPOT ELEVATIONS	6250 +
SPECIMEN TREE	
SWM DRAINAGE AREA	
SILT FENCE	SF
SUPER SILT FENCE	SSF

LEGEND CONTINUED

PROPOSED STORM DRAIN	
PROPOSED RIP RAP OUTFALL	
PROPOSED SAME DAY STABILIZATION	
PROPOSED SOIL STABILIZATION MATTING	
MICROBIORETENTION / BIOSWALE	
STABILIZED CONSTRUCTION ENTRANCE	

APPROVED : DEPARTMENT OF PLANNING AND ZONING

[Signature] 7/29/24
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 7/10/24
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION	BY

DEVELOPER
 HOLY KOREAN MARTYRS CATHOLIC CONGREGATION, INC.
 5801 SECURITY BLVD
 BALTIMORE, MD 21207
 ATTN: MATTHEW REGAN
 PHONE: 410-547-5386

OWNER
 WILLIAM H. KEELER, CARDINAL
 C/O DIVISION OF FACILITIES & REAL ESTATE
 320 CATHEDRAL STREET
 BALTIMORE, MD 21201

PROJECT
HOLY KOREAN MARTYRS CATHOLIC CHURCH

AREA
 TAX MAP 9, PARCEL 21 ZONED RC-DEO
 GRID NO. 23 3RD ELECTION DISTRICT
 1740 SYKESVILLE RD
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 HOWARD COUNTY, MARYLAND

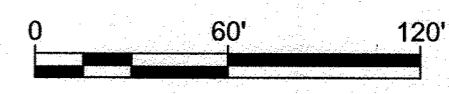
TITLE
ENVIRONMENTAL CONCEPT PLAN

Pennoni Associates Inc.
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 8890 McGaw Rd, Suite 100 Columbia, MD 21045
 T 410.997.8900 F 410.997.9282

SEAL

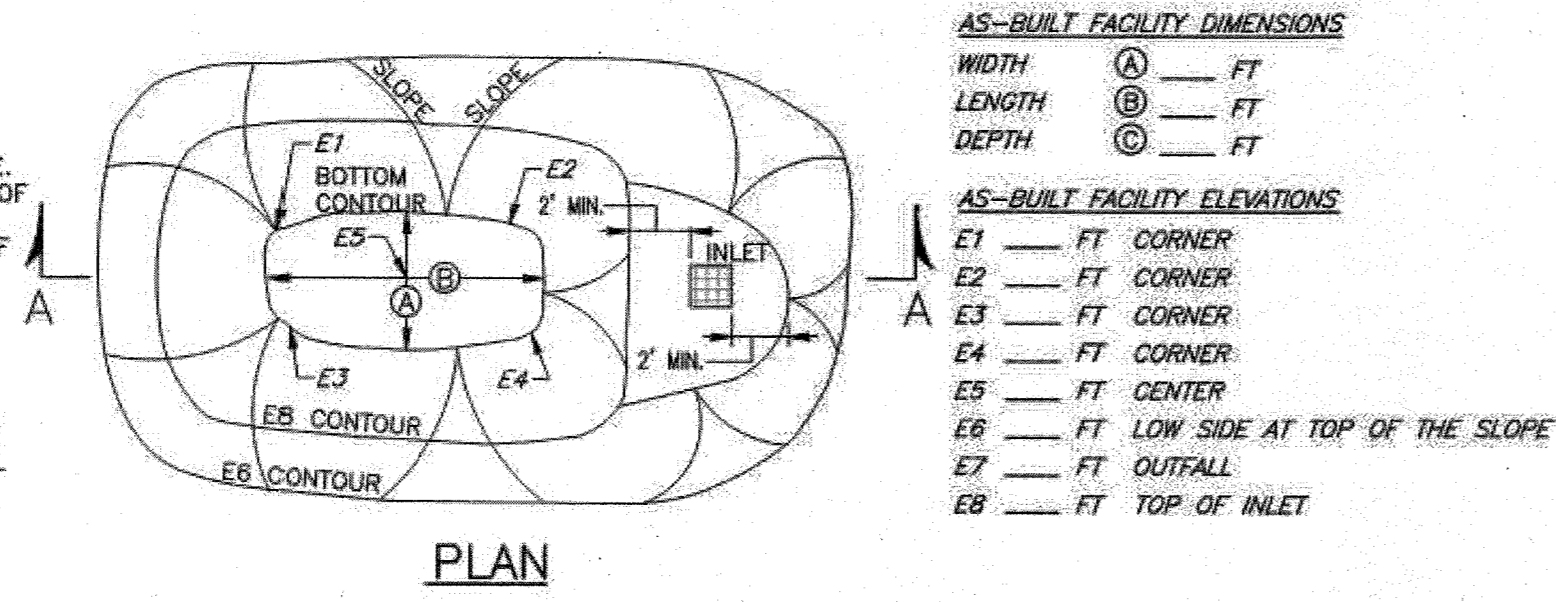
 DESIGNED BY : JSN/CR
 DRAWN BY : JSN/CR
 PROJECT NO : ABAL21001
 DATE : JULY 3, 2024
 SCALE : 1" = 60'
 DRAWING NO. 4 OF 5

MATCH LINE - SEE SHEET 3

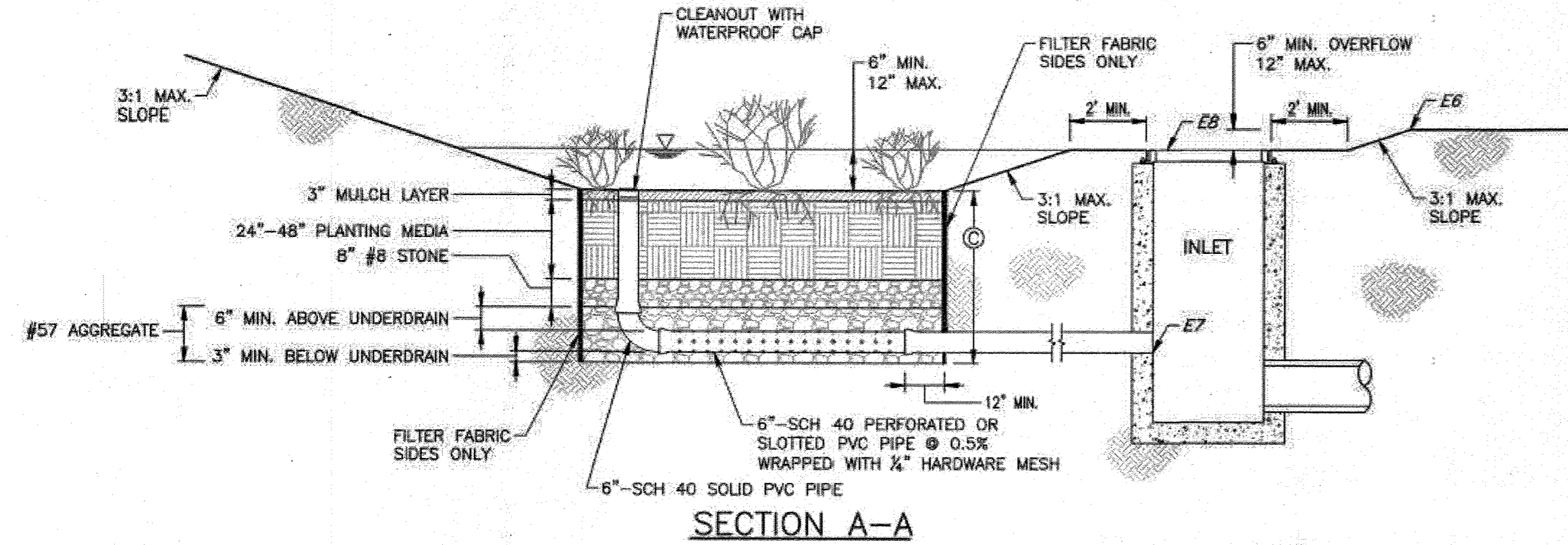


NOTES

- FACILITY SHALL BE A MINIMUM OF 10FT FROM ANY BUILDING.
- FACILITY SHALL BE INSTALLED IN EXCAVATED VIRGIN SOIL (NOT FILL).
- FACILITY SHALL BE MINIMUM 4" ABOVE THE SEASONAL HIGH WATER TABLE.
- REGULAR INSPECTIONS SHALL BE REQUIRED DURING FOLLOWING STAGES OF THE CONSTRUCTION.
 - DURING EXCAVATION TO SUBGRADE AND PLACEMENT AND BACKFILL OF UNDERDRAIN SYSTEMS.
 - DURING PLACEMENT OF PLANTING MEDIA.
 - DURING CONSTRUCTION OF APPURTENANT CONVEYANCE.
 - UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION.
- E1 TO E8 AS-BUILT SPOT ELEVATION LOCATIONS.
- THIS STANDARD IS A REFERENCE TO SHOW THE ELEMENTS AND MINIMUM DIMENSIONS FOR A MICRO-BIORETENTION FACILITY. EACH FACILITY SHALL BE DESIGNED AND APPROVED ON A SITE SPECIFIC BASIS. THIS DETAIL PROVIDES BLANK SPACES TO INFORM WHERE AS-BUILT INFORMATION IS REQUIRED FOR SWM CLOSEOUT.

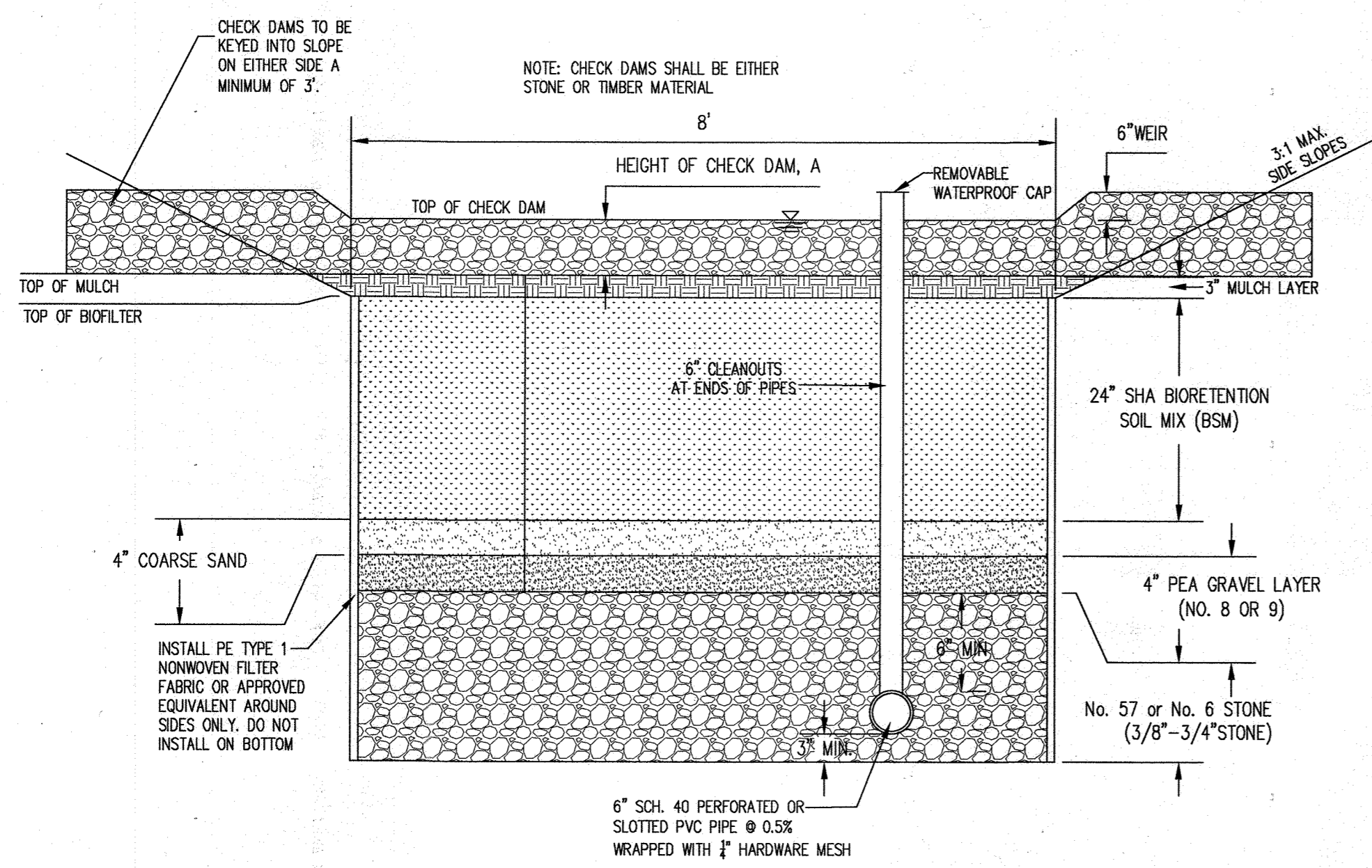


PLAN



Revised Approved 5/30/2017 Approved	Howard County, Maryland Department of Public Works Approved: <i>Thomas J. Smith</i> Chief, Bureau of Engineering	MICRO-BIORETENTION FACILITY Private For Reference	Detail D-9.03
--	---	--	------------------

1 MICROBIORETENTION TYPICAL SECTION
 5 NOT TO SCALE



2 BIOSWALE TYPICAL CROSS SECTION
 5 NOT TO SCALE

SITE AREA (LOD)	8.75 AC
PROPOSED IMPERVIOUS AREA	3.31 AC (37.8% - LOD AREA)
Rv	0.39
TARGET P _e	1.79"
ESDv REQUIRED	22,224 CF
TREATMENT	ESDv PROVIDED
MICRO-BIORETENTION (M-6)	20,140 CF
BIOSWALE (M-8)	7,789 CF
TOTAL ESDv PROVIDED	27,929 CF

FACILITY	ESDv PROVIDED
MICROBIORETENTION AREA #1	1,788 CF
MICROBIORETENTION AREA #2	1,302 CF
MICROBIORETENTION AREA #3	1,925 CF
MICROBIORETENTION AREA #4	1,819 CF
MICROBIORETENTION AREA #5	3,091 CF
MICROBIORETENTION AREA #6	2,742 CF
MICROBIORETENTION AREA #7	1,330 CF
MICROBIORETENTION AREA #8	2,020 CF
MICROBIORETENTION AREA #9	2,266 CF
MICROBIORETENTION AREA #10	1,857 CF
BIOSWALE #1	3,863 CF
BIOSWALE #2	2,273 CF
BIOSWALE #3	1,654 CF

APPROVED : DEPARTMENT OF PLANNING AND ZONING

[Signature] 7.23.24
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 7/10/24
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION	BY

DEVELOPER
 HOLY KOREAN MARTYRS CATHOLIC CONGREGATION, INC.
 5801 SECURITY BLVD
 BALTIMORE, MD 21207
 ATTN: MATTHEW REGAN
 PHONE: 410-547-5386

OWNER
 WILLIAM H. KEELER, CARDINAL
 C/O DIVISION OF FACILITIES & REAL ESTATE
 320 CATHEDRAL STREET
 BALTIMORE, MD 21201

PROJECT
HOLY KOREAN MARTYRS CATHOLIC CHURCH

AREA
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 GRID NO. 23 3RD ELECTION DISTRICT
 1740 SYKESVILLE RD
 SYKESVILLE, MD 21784
 HOWARD COUNTY, MARYLAND

TITLE
STORMWATER DETAILS

Pennon Pennoni Associates Inc.
 Engineers • Surveyors • Planners
 Landscape Architects

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SEAL

DESIGNED BY : JSN/CR
 DRAWN BY : JSN/CR
 PROJECT NO : ABALT21001
 DATE : JULY 3, 2024
 SCALE : NO SCALE
 DRAWING NO. 5 OF 5