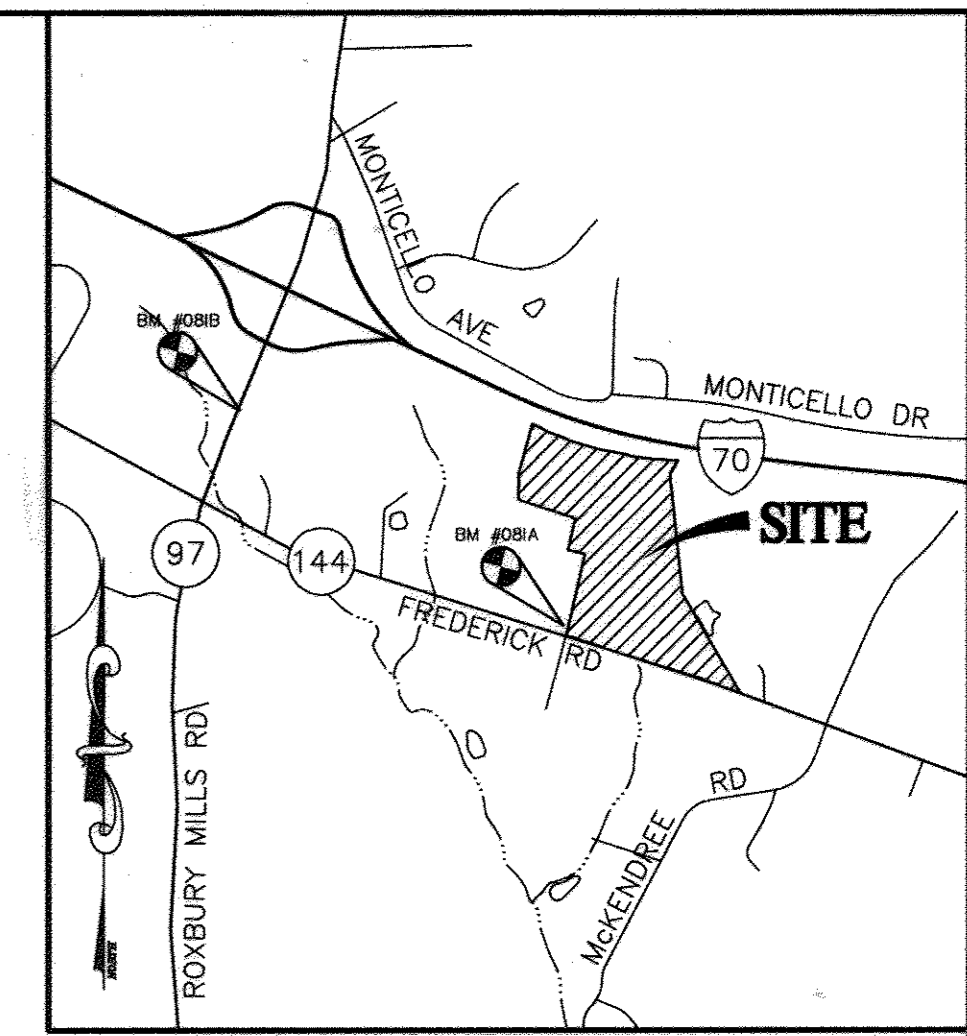


SHEET INDEX		SHEET INDEX	
NO	DESCRIPTION	NO	DESCRIPTION
1	TITLE SHEET	27	DRAINAGE AREA MAP ULTIMATE CONDITIONS
2	SITE DEVELOPMENT PLAN	28	LANDSCAPE PLAN
3	SITE DEVELOPMENT PLAN	29	LANDSCAPE PLAN
4	SITE DEVELOPMENT PLAN	30	LANDSCAPE PLAN
5	SITE DEVELOPMENT PLAN	31	LANDSCAPE PLAN
6	SITE DEVELOPMENT PLAN	32	LANDSCAPE PLAN
7	SITE DEVELOPMENT PLAN	33	LANDSCAPE PLAN
8	INTERIM GRADING AND SEDIMENT CONTROL PLAN	34	FOREST STAND DELINEATION
9	INTERIM GRADING AND SEDIMENT CONTROL PLAN	35	FOREST STAND DELINEATION
10	INTERIM GRADING AND SEDIMENT CONTROL PLAN	36	FOREST STAND DELINEATION
11	INTERIM GRADING AND SEDIMENT CONTROL PLAN	37	FOREST STAND DELINEATION
12	INTERIM GRADING AND SEDIMENT CONTROL PLAN	38	FOREST STAND DELINEATION
13	INTERIM GRADING AND SEDIMENT CONTROL PLAN	39	FOREST STAND DELINEATION
14	GRADING AND SEDIMENT CONTROL PLAN	40	FOREST CONSERVATION PLAN
15	GRADING AND SEDIMENT CONTROL PLAN	41	FOREST CONSERVATION PLAN
16	GRADING AND SEDIMENT CONTROL PLAN	42	FOREST CONSERVATION PLAN
17	GRADING AND SEDIMENT CONTROL PLAN	43	FOREST CONSERVATION PLAN
18	GRADING AND SEDIMENT CONTROL PLAN	44	FOREST CONSERVATION PLAN
19	GRADING AND SEDIMENT CONTROL PLAN	45	FOREST CONSERVATION PLAN
20	PROFILES	46	ROAD WIDENING AND STRIPING PLAN
21	PROFILES	47	BIO-RETENTION DETAILS
22	DETAILS	48	RETAINING WALL DETAILS
23	SEDIMENT CONTROL NOTES	49	PROFILES AND DETAILS
24	SEDIMENT CONTROL DETAILS	50	ROAD WIDENING AND STRIPING PLAN FOR RT 97 - RT 144 INTERSECTION
25	STORMWATER MANAGEMENT PROFILES AND DETAILS	51	PROFILES
26	DRAINAGE AREA MAP EXISTING CONDITIONS		

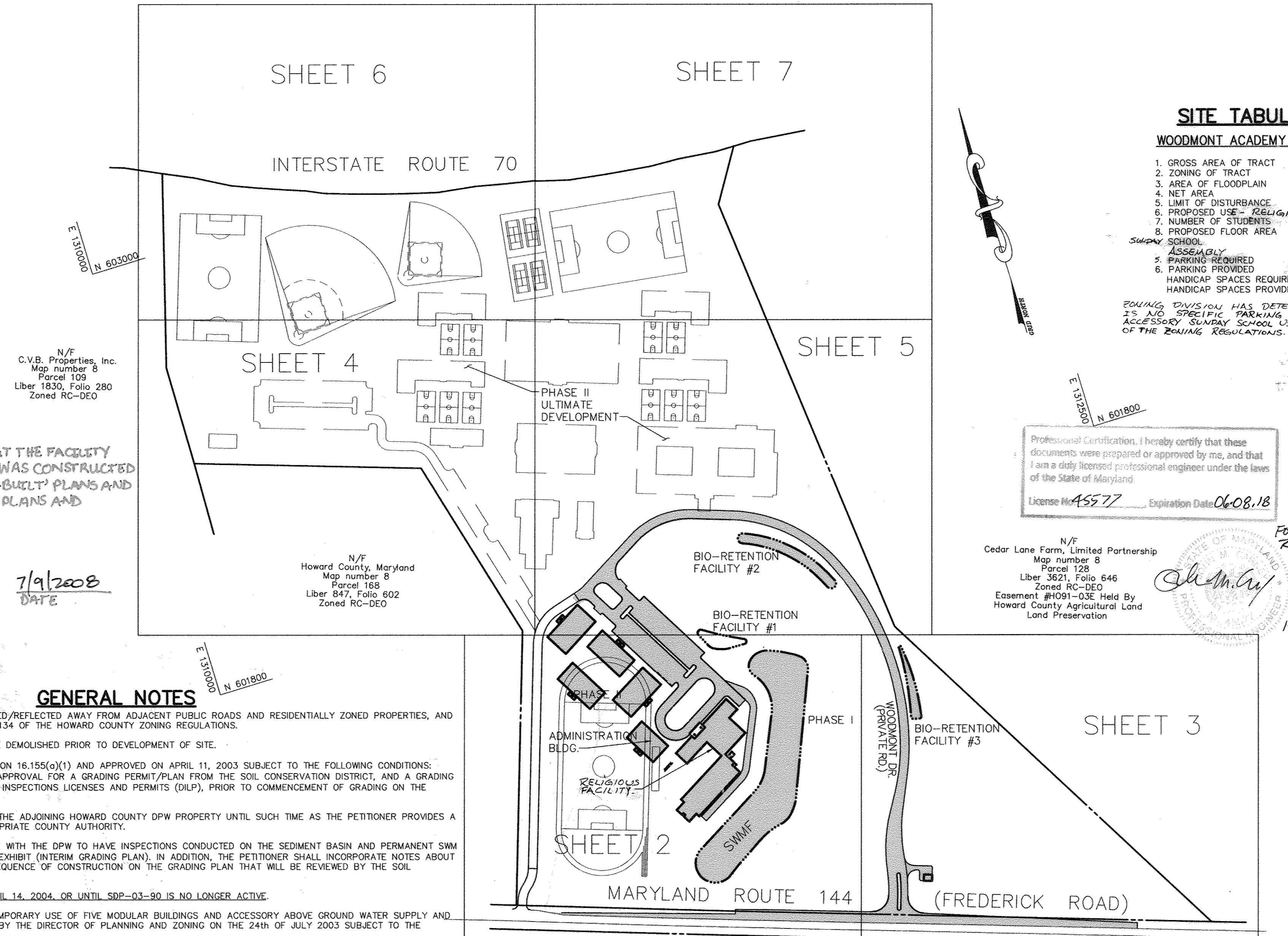
SITE DEVELOPMENT PLANS

ST. MARY COPTIC ORTHODOX CHURCH PHASE ONE 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- 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 SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY WINGS AERIAL MAPPING CO. DATED MARCH 2002.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 081A AND 081B WERE USED FOR THIS PROJECT.
- WATER IS PRIVATE.
- SEWER IS PRIVATE.
- THE STORMWATER MANAGEMENT FACILITIES PROPOSED FOR THIS SITE ARE ALL PRIVATELY OWNED AND MAINTAINED. A WET POND WILL PROVIDE THE REQUIRED WOV AND CPV FOR THE ULTIMATE CONDITIONS IN DRAINAGE AREA #1. A BIORETENTION FACILITY WILL PROVIDE THE REQUIRED REV FOR THE PROPOSED CONDITIONS IN PHASE I AND THE NOTED FUTURE PARKING. TWO (2) BIORETENTION FACILITIES WILL PROVIDE WOV AND REV FOR DRAINAGE AREA #2. SHEET FLOW TO BUFFER AND NON-ROOFTOP DISCONNECTION CREDITS WILL ALSO BE USED IN DRAINAGE AREA #2. CPV IS NOT REQUIRED FOR DRAINAGE AREA #2.
- ANY CHANGES THAT RESULT IN AN INCREASE IN THE IMPERVIOUS AREA TO DRAINAGE AREA 1P OR 2P AS SHOWN ON SHEET 27 OF 49 WILL REQUIRE A REDLINE REVISION FOR THE PURPOSE OF PROVIDING ADDITIONAL STORMWATER MANAGEMENT.
- WHEN PHASE II IS INITIATED A NEW SWM DESIGN MUST BE PREPARED FOR ALL AREAS OUTSIDE OF DRAINAGE AREAS 1P AND 2P AS SHOWN ON SHEET 27 OF 49 AS EACH NEW DRAINAGE AREA IS DEVELOPED.
- 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.
- FLOODPLAIN STUDY PREPARED BY PATTON HARRIS RUST & ASSOCIATES DATED FEBRUARY 2003.
- THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY NAVARRO & WRIGHT DATED AUG. 2002.
- THE APFO TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP DATED JANUARY 2003 AND APPROVED ON MAY 30, 2003.
- A NOISE STUDY FOR THIS PROJECT IS NOT REQUIRED.
- THE GEOTECHNICAL STUDY FOR STORMWATER MANAGEMENT FOR THIS PROJECT WAS PREPARED BY HILLIS CARNES, INC DATED JANUARY, 2003.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PREPARED BY NAVARRO & WRIGHT DATED AUG. 2002.
- SUBJECT PROPERTY ZONED RC-DEO PER 10-6-13 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO. BA-02-19C, GP-03-49, WP-03-106, TU-03-02, BA-13-032C, BA-17-010C, PLAT 16129.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED. E
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, I.E., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
- THE HEARING EXAMINER APPROVED THE DECISION AND ORDER FOR BA-02-19C, FOR A PRIVATE SCHOOL AND RETREAT CENTER ON JULY 17, 2002.
(A) A 50 FOOT BUFFER WILL BE REDUCED TO 30 FEET FROM ADJOINING PROPERTIES NEAR THE EASTERN PORTION OF THE DRIVEWAY.
(B) IN THE FUTURE A PORTION OF THE WESTERN DRIVEWAY AND PLAYING FIELDS WILL BE EXTENDED TO WITHIN 30 FOOT SETBACK.
- THE FOREST CONSERVATION OBLIGATION FOR THE PROPOSED SITE DEVELOPMENT HAS BEEN MET BY AFFORESTING 9.86± AC OF FOREST ON SITE AND PAYMENT OF A FEE-IN-LIEU FOR THE REMAINING OBLIGATION. SUBJECT TO THE AMOUNT OF \$205,571 (411,502 SF x \$0.50) HAS BEEN POSTED FOR THE AFFORESTATION. 18,000 SF OF AFFORESTATION (18 SHADE TREES @ 400 SF AND 48 EVERGREEN TREES @ 225 SF) HAS BEEN BONDED AS PART OF THE LANDSCAPE PLAN TO MEET PERMETER LANDSCAPE REQUIREMENTS. PAYMENT OF FEE-IN-LIEU IN THE AMOUNT OF \$59,242 (118,483 x \$0.50 SF) IS PROPOSED FOR THE REMAINING OBLIGATION OF 2.72 AC. A FOREST CONSERVATION EASEMENT WILL BE ESTABLISHED OVER THE AFFORESTATION AREAS.
- FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$100,750.
175 SHADE TREES @ \$300 = \$52,500
54 ORNAMENTAL TREES @ \$150 = \$8,100
221 EVERGREEN TREES @ \$150 = \$33,150
0 SHRUBS @ \$30 = \$0



SITE TABULATION

WOODMONT ACADEMY - PHASE 1

1. GROSS AREA OF TRACT	66.42 ACRES
2. ZONING OF TRACT	RC-DEO
3. AREA OF FLOODPLAIN	0 ACRES
4. NET AREA	66.42 ACRES
5. LIMIT OF DISTURBANCE	36.9 ACRES
6. PROPOSED USE - RELIGIOUS FACILITY	
7. NUMBER OF STUDENTS	100
8. PROPOSED FLOOR AREA	27,417 SF
SUNDAY SCHOOL ASSEMBLY	23,841 SF
ASSEMBLY	3,576 SF
9. PARKING REQUIRED	10,891 SPACES
10. PARKING PROVIDED	20 SPACES
HANDICAP SPACES REQUIRED	2
HANDICAP SPACES PROVIDED	6 (INCL. 2 VAN SPACES)

ENGINEERING DIVISION HAS DETERMINED THAT THERE IS NO SPECIFIC PARKING REQUIREMENT FOR AN ACCESSORY SUNDAY SCHOOL USE PER SECTION 153.0 OF THE ZONING REGULATIONS.

BENCHMARKS

CONTROL STATION 081A	ELEVATION 599.315
N 601,107.012	E 1,310,575.051
LOCATED EAST OF COOKSVILLE REPAIR SHOP, NORTH OF SUMMER HILL FARM ENTRANCE CONTROL STATION 081B	
ELEVATION 596.707	N 603,342.517
E 1,307,205.869	LOCATED IN MEDIAN AT ROUTE 70 AND ROUTE 97 INTERSECTION

PHASE 1 SEWER TABULATION

STUDENTS x 15 GPD/STUDENT	=	GPD
PHASE I FLOW	=	GPD
PHASE 1 SEWER TABULATION		
100 STUDENTS @ 15 GPD/STUDENT =	1500 GPD	
350 SEAT CHURCH @ 3 GPD/SEAT =	1050 GPD	
TOTAL FLOW PHASE 1	= 2550 GPD	

Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License #A5577, Expiration Date: 06/08/18

AS-BUILT STATEMENT:
"I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."

7/9/2008
DATE

GENERAL NOTES

- ALL UTILITIES TO BE DETECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
- EXISTING STRUCTURES MUST BE DEMOLISHED PRIOR TO DEVELOPMENT OF SITE.
- WP-03-106 IS TO WAIVE SECTION 16.155(a)(1) AND APPROVED ON APRIL 11, 2003 SUBJECT TO THE FOLLOWING CONDITIONS:
A. THE PETITIONER SHALL OBTAIN APPROVAL FOR A GRADING PERMIT/PLAN FROM THE SOIL CONSERVATION DISTRICT, AND A GRADING PERMIT FROM THE DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS (DILP), PRIOR TO COMMENCEMENT OF GRADING ON THE SUBJECT PROPERTY.
B. NO GRADING MAY BE DONE ON THE ADJOINING HOWARD COUNTY DPW PROPERTY UNTIL SUCH TIME AS THE PETITIONER PROVIDES A CONSENT LETTER FROM THE APPROPRIATE COUNTY AUTHORITY.
C. THE PETITIONER SHALL ARRANGE WITH THE DPW TO HAVE INSPECTIONS CONDUCTED ON THE SEDIMENT BASIN AND PERMANENT SWM FEATURES SHOWN ON THE WAIVER EXHIBIT (INTERIM GRADING PLAN). IN ADDITION, THE PETITIONER SHALL INCORPORATE NOTES ABOUT THE DPW INSPECTIONS INTO THE SEQUENCE OF CONSTRUCTION ON THE GRADING PLAN THAT WILL BE REVIEWED BY THE SOIL CONSERVATION DISTRICT.
- GP-03-49 IS VALID UNTIL APRIL 14, 2004, OR UNTIL SDP-03-90 IS NO LONGER ACTIVE.
- TU-03-02 A REQUEST FOR TEMPORARY USE OF FIVE MODULAR BUILDINGS AND ACCESSORY ABOVE GROUND WATER SUPPLY AND SANITATION UNITS WAS APPROVED BY THE DIRECTOR OF PLANNING AND ZONING ON THE 24th OF JULY 2003 SUBJECT TO THE FOLLOWING CONDITION:
A. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAWS AND REGULATIONS, AND SHALL COMPLY WITH THE COMMENTS FROM THE STATE HIGHWAY ADMINISTRATION AND THE DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS AS NOTED IN FINDINGS OF FACT NO. 9.
B. THE PETITIONER SHALL CONDUCT THE TEMPORARY USE IN SUBSTANTIAL CONFORMANCE WITH THE RECORDED TESTIMONY.
C. AFTER THE PETITIONER IS GRANTED FINAL APPROVAL FROM THE DEPARTMENT OF INSPECTIONS, LICENSE AND PERMITS TO OCCUPY AND USE THE MODULAR FACILITIES, THE PETITIONER SHALL SUBMIT A WRITTEN DECLARATION TO THE DEPARTMENT OF PLANNING AND ZONING SPECIFYING THE DATE THE PETITIONER WILL INITIALLY OCCUPY ANY OF THE MODULAR BUILDINGS, WHICH SHALL BECOME PART OF THE OFFICIAL RECORD IN THE CASE. THE 60 DAY TEMPORARY USE PERIOD SHALL BEGIN ON THIS DECLARED DATE OF FIRST OCCUPANCY.

WELL AND SEPTIC GENERAL NOTES

- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL EASEMENT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC HEALTH IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT PLAN SHALL NOT BE NECESSARY.
- PERC HOLES SHOWN HEREON HAVE BEEN FIELD LOCATED BY PATTON HARRIS RUST AND ASSOCIATES, PC JULY 2002.
- WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARY HAVE BEEN SHOWN TO THE BEST OF OUR KNOWLEDGE AND INFORMATION.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ALL WELLS TO BE DRILLED PRIOR TO SITE DEVELOPMENT PLAN SIGNATURE.
- ALL HOLES SUBJECT TO MOUNDING ANALYSIS FOR USABILITY OF PROPOSED SYSTEM DESIGN.
- GROUNDWATER APPROPRIATIONS PERMIT NO. H02002012(01) WAS ISSUED ON NOVEMBER 11, 2002, AND HAS BEEN REAUTHORIZED.
- GROUNDWATER DISCHARGE PERMIT TO BE ISSUED PRIOR TO SITE DEVELOPMENT PLAN SIGNATURE, IF NECESSARY.
- A CONSTRUCTION PERMIT MUST BE ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT TO INSTALL THE PRE-TREATMENT UNIT AND PUMPING CHAMBER.

PLAN
SCALE: 1" = 200'

NORTH ELEVATION
SCALE: 1" = 20'

EAST ELEVATION
SCALE: 1" = 20'
(ADMINISTRATION MODULAR TRAILER)

ADDRESS CHART

PARCEL	STREET ADDRESS
115	2000 WOODMONT DRIVE

SUBDIVISION NAME	WOODMONT ACADEMY	SECT./AREA	-	PARCEL	115
PLAT #	-	BLOCK #	24 & 6	ZONING	RC-DEO
WATER CODE	PRIVATE	SEWER CODE	PRIVATE	TAX MAP NO.	8 & 14
				ELECT. DIST./CENSUS TRACT	4 th 6040

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark D. ... 8/24/03
DIRECTOR DATE

Judy ... 8/22/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

7/14/07 BET: CHANGES DUE TO BA-17-10C APPROVAL
11/16/07 REVISED SHEET INDEX

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE I - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE SHEET

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO: 22516/2-0/ENGR
C-TITLE.DWG
DATE: JULY 28, 2003
SCALE: AS SHOWN
DRAWING NO. 1 OF 51

CHRISTOPHER J. REID #19949

FOR CONTINUATION SEE SHEET 4

FOR CONTINUATION SEE SHEET 5

- NOTES:**
1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
 3. ALL ON-SITE ROADS ARE PRIVATE.
 4. ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 5. * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
 6. FOR LIGHTING SPECIFICATIONS AND DETAIL SEE SHEET 22.

DA #1 - SUMMARY CHART

SIZING CRITERIA	VOLUME REQUIRED	NOTES
WQv	0.83 AC.FT.	WET POND
*Rev	0.068 AC.FT.	BIO-RETENTION
Opv	1.38 AC.FT.	WET POND
Qp	N/A	N/A
Qf	N/A	N/A

* Rev is BASED ON PROPOSED SITE IMPERVIOUSNESS, NOT ULTIMATE.

DA #2 - SUMMARY CHART

SIZING CRITERIA	VOLUME REQUIRED	NOTES
WQv	0.20 AC.FT.	BIO-RETENTION
Rev	0.032 AC.FT.	BIO-RETENTION
Opv	N/A	Q1 PR < Q1 EX
Qp	N/A	N/A
Qf	N/A	N/A

MODULAR BLDGS. ARE TEMPORARY AND WILL BE RELOCATED/REMOVED IN FUTURE PHASES.

AS BUILT STATEMENT:
 "I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE AS-BUILT PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."

JOHN W. CLARADDE
 7/9/2008
 DATE

THE SECOND ENTRANCE WILL BE MADE WHEN THE ROAD IS IMPROVED UNDER PHASE II WITH SHA APPROVAL.

MARYLAND ROUTE 144 (FREDERICK ROAD)
STATE MAJOR COLLECTOR (SCENIC ROAD)

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 09/16

DATE	NO.	REVISION
10/13/17	4	BE CHANGE SCHOOL TO RELIGIOUS FACILITY
11/1/07	3	QMT WORK COVERED ON 2A

LEGEND

EXISTING 2' CONTOUR	---	300
EXISTING 10' CONTOUR	---	300
PROPOSED 2' CONTOUR	---	300
PROPOSED 10' CONTOUR	---	300
PROPERTY LINE AND RIGHT OF WAY	---	
FENCE	---	
GUARDRAIL	---	
STORM DRAIN	---	15"D
OVERHEAD WIRES	---	DHW
EXISTING TREELINE	---	
PROPOSED TREELINE	---	
PROP. SPOT ELEVATION	---	13'2"
SETBACK LINES	---	
15%-25% SLOPES	---	
25% OR GREATER SLOPES	---	
MSHA PAVING	---	
P-1 PAVING	---	
P-3 PAVING	---	
CONCRETE SIDEWALK	---	
MACADAM SIDEWALK	---	
PROPOSED LIGHTS	---	
VEHICULAR INGRESS AND EGRESS RESTRICTED	---	VI & ER
LIMIT OF WETLANDS	---	
PROPOSED REFORESTATION AREA (SEE SHEETS 40-45)	---	

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 8/24/03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: [Signature] DATE: 8/10/02

CHIEF, DEVELOPMENT ENGINEERING DIVISION (MRT) DATE: 3/14/03

CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 5/21/02

7/18/05 CHANGED A JACK TO STAINLESS STEEL W/FRAP AND 2" x 1/2" RCP. REVISED GRADING AND SLOPES AROUND BLDG. GUARANTEED TO PRIVATE. ADD 2 PAVING STRIPS.

11/28/04 RELOCATED PUMP HOUSE & ADDED GREASE TRAP SILL

DATE	NO.	REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP B & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE: 7.28.03

DESIGNED BY: C.J.R.

DRAWN BY: DAM

PROJECT NO: 22516/2-0/ENGR
 C-4005IT-1

DATE: JULY 28, 2003

SCALE: 1" = 40'

DRAWING NO. 2 OF 51

CHRISTOPHER J. REID #19949

SDP-03-90

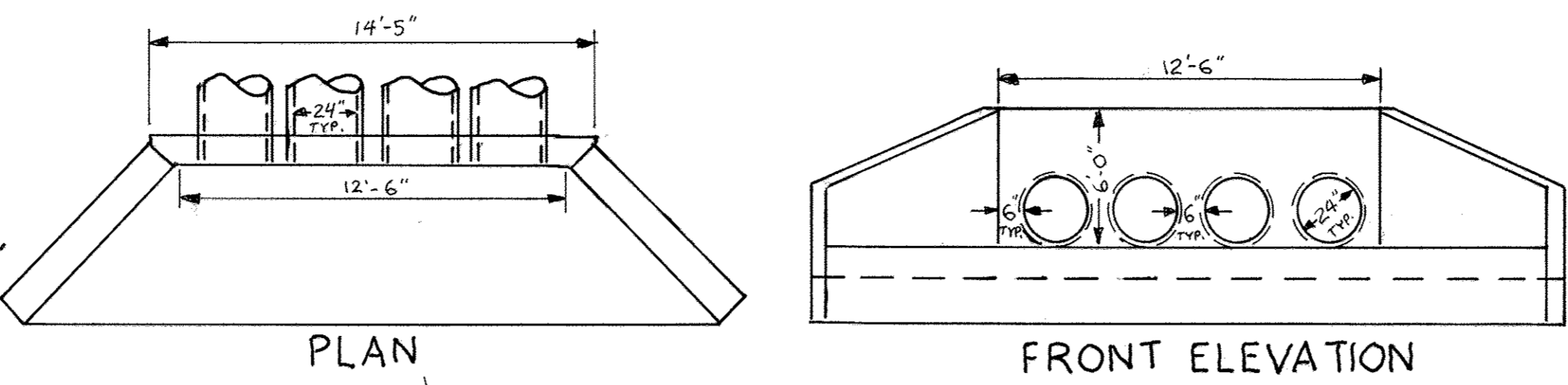
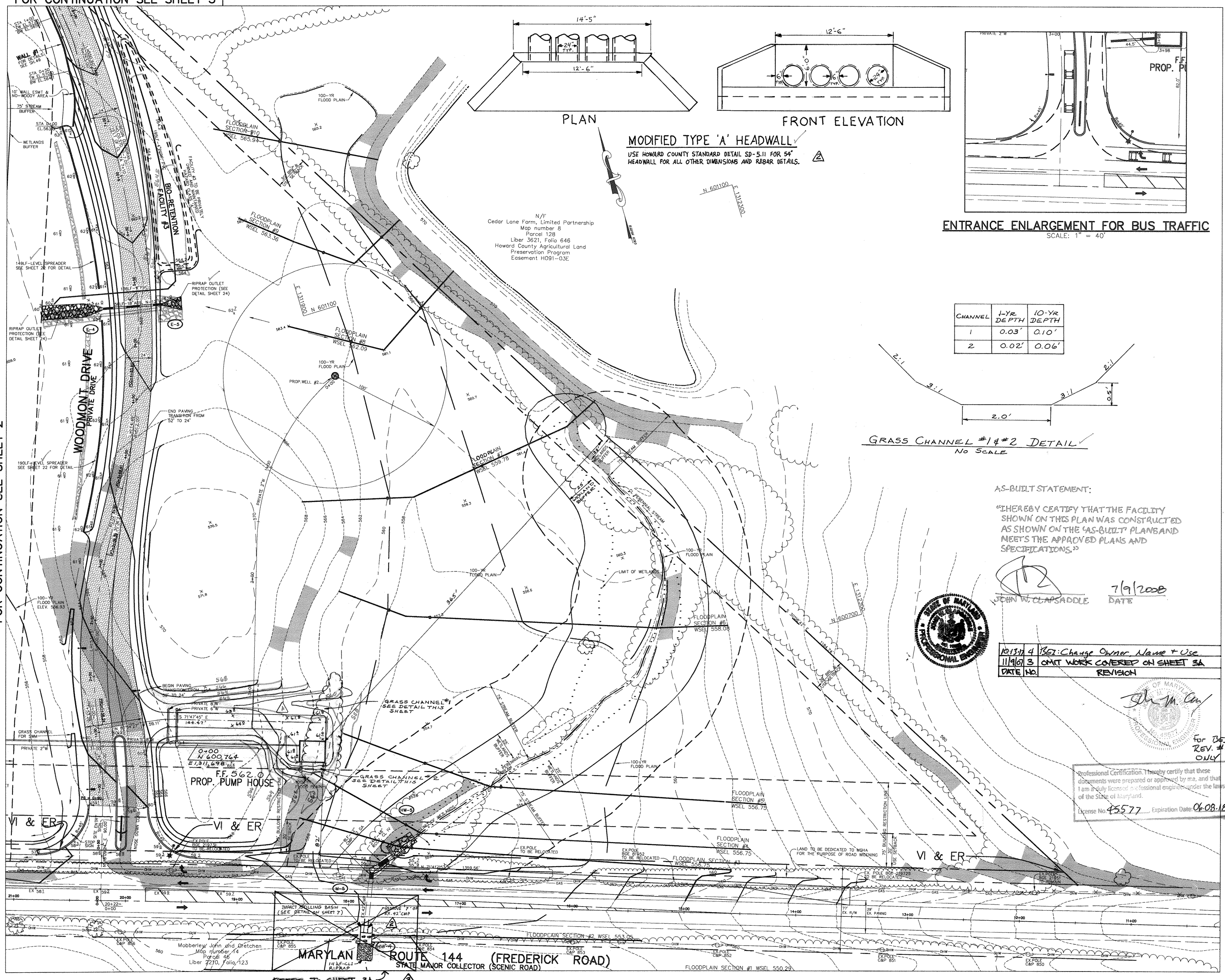
FOR CONTINUATION SEE SHEET 3

REFER TO SHEET 3A

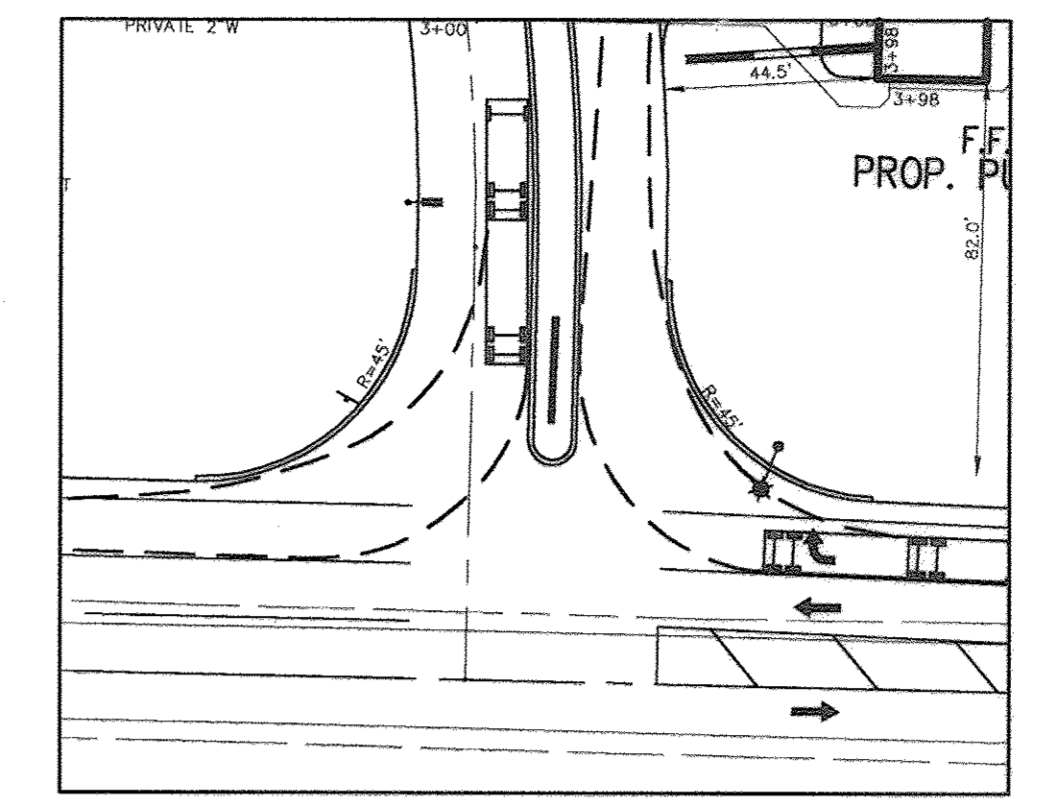
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FOR CONTINUATION SEE SHEET 5 |

FOR CONTINUATION SEE SHEET 2

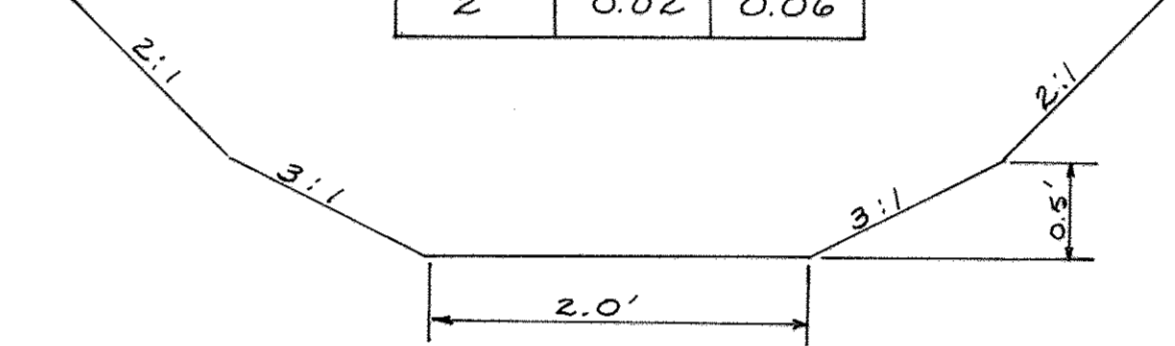


MODIFIED TYPE 'A' HEADWALL
USE HOWARD COUNTY STANDARD DETAIL SD-5.11 FOR 54" HEADWALL FOR ALL OTHER DIMENSIONS AND REBAR DETAILS.



ENTRANCE ENLARGEMENT FOR BUS TRAFFIC
SCALE: 1" = 40'

CHANNEL	1-YR DEPTH	10-YR DEPTH
1	0.03'	0.10'
2	0.02'	0.06'



GRASS CHANNEL #1 & #2 DETAIL
NO SCALE

AS-BUILT STATEMENT:

"I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."

[Signature]
JOHN W. CLAPSADDE
DATE: 7/9/2008



DATE	NO.	REVISION
10/13/14	4	SET Change Owner Name + Use
11/19/13	3	OMIT WORK COVERED ON SHEET 3A

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577 Expiration Date: 06-08-18

- NOTES:**
- ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
 - ALL ON-SITE ROADS ARE PRIVATE.
 - ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 - * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
 - FOR LIGHTING SPECIFICATIONS AND DETAIL SEE SHEET 22.

LEGEND

EXISTING 2' CONTOUR	---	300
EXISTING 10' CONTOUR	---	300
PROPOSED 2' CONTOUR	---	300
PROPOSED 10' CONTOUR	---	300
PROPERTY LINE AND RIGHT OF WAY	---	
FENCE	---	
GUARDRAIL	---	
STORM DRAIN	---	15"D
OVERHEAD WIRES	---	OHW
EXISTING TREELINE	---	
PROPOSED TREELINE	---	
PROP. SPOT ELEVATION	---	13'±
SETBACK LINES	---	
15%-25% SLOPES	---	
25% OR GREATER SLOPES	---	
MSHA PAVING	---	
P-1 PAVING	---	
P-3 PAVING	---	
CONCRETE SIDEWALK	---	
MACADAM SIDEWALK	---	
PROPOSED DRIVE	---	
VEHICULAR INGRESS AND EGRESS RESTRICTED	---	
LIMIT OF WETLANDS	---	
PROPOSED REFORESTATION AREA (SEE SHEETS 40-45)	---	

VI & ER

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature]
DIRECTOR
DATE: 8/24/08

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/23/08

[Signature]
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 8/23/08

DATE	NO.	REVISION
10/13/14	4	SET Change Owner Name + Use
11/19/13	3	OMIT WORK COVERED ON SHEET 3A
4/29/04	2	RELOCATE PUMP HOUSE

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
141% FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

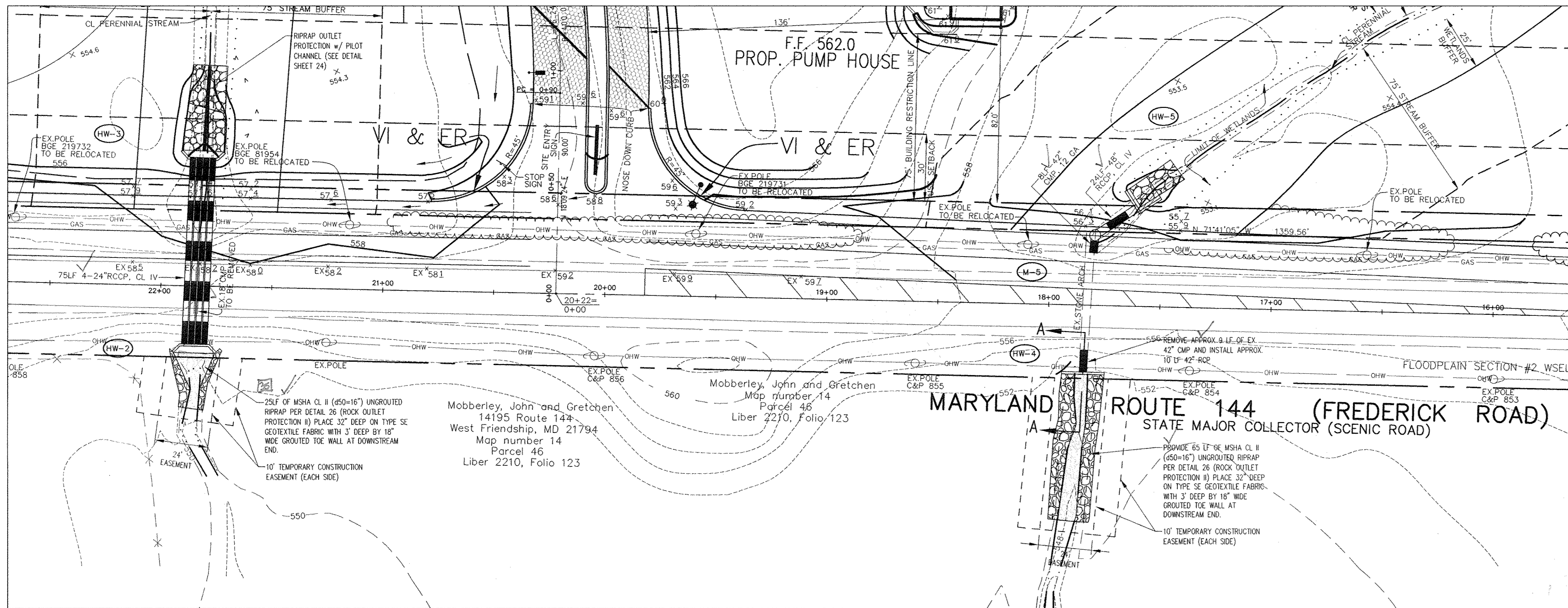
TITLE
SITE DEVELOPMENT PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE: 7.28.08

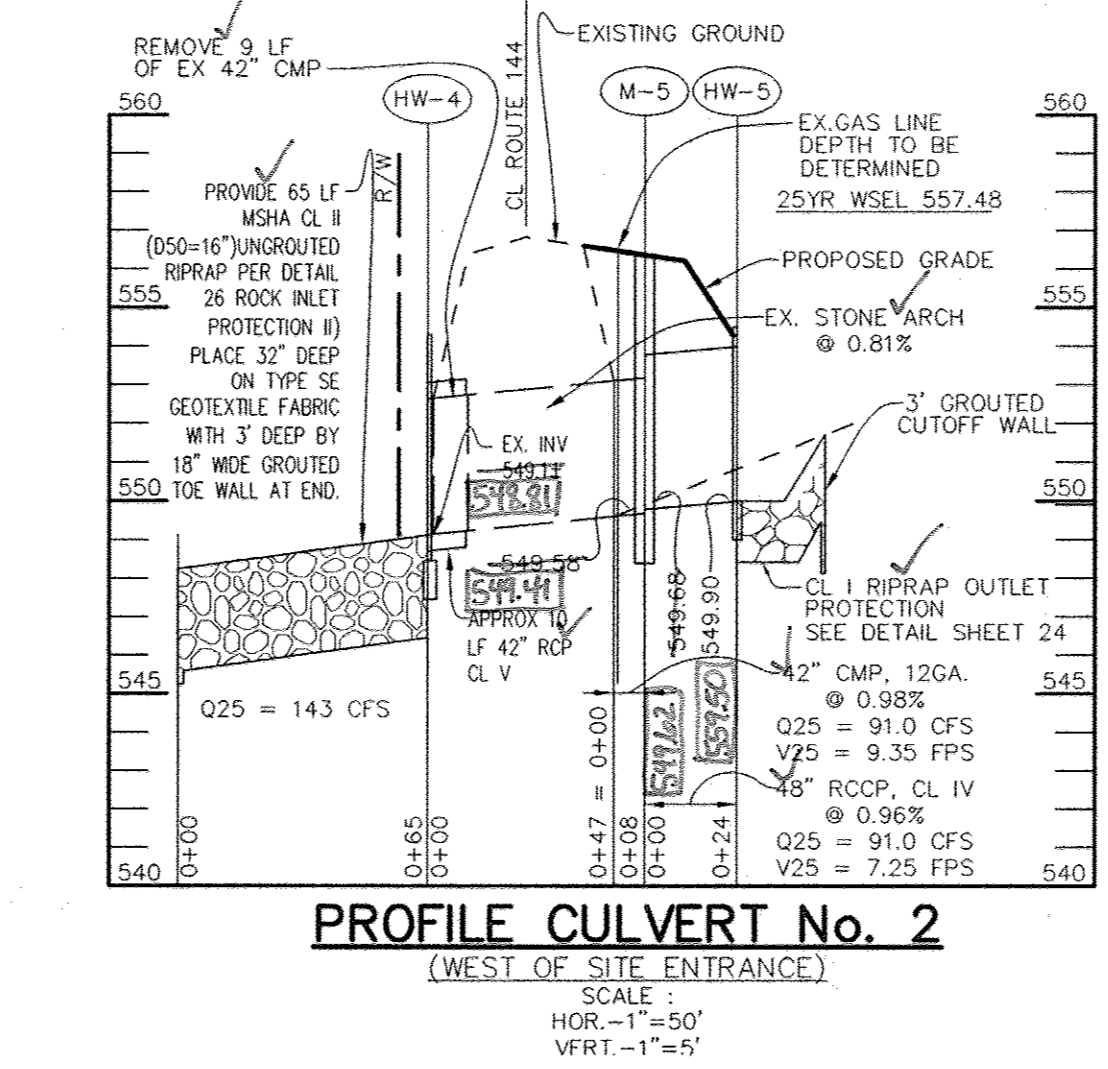
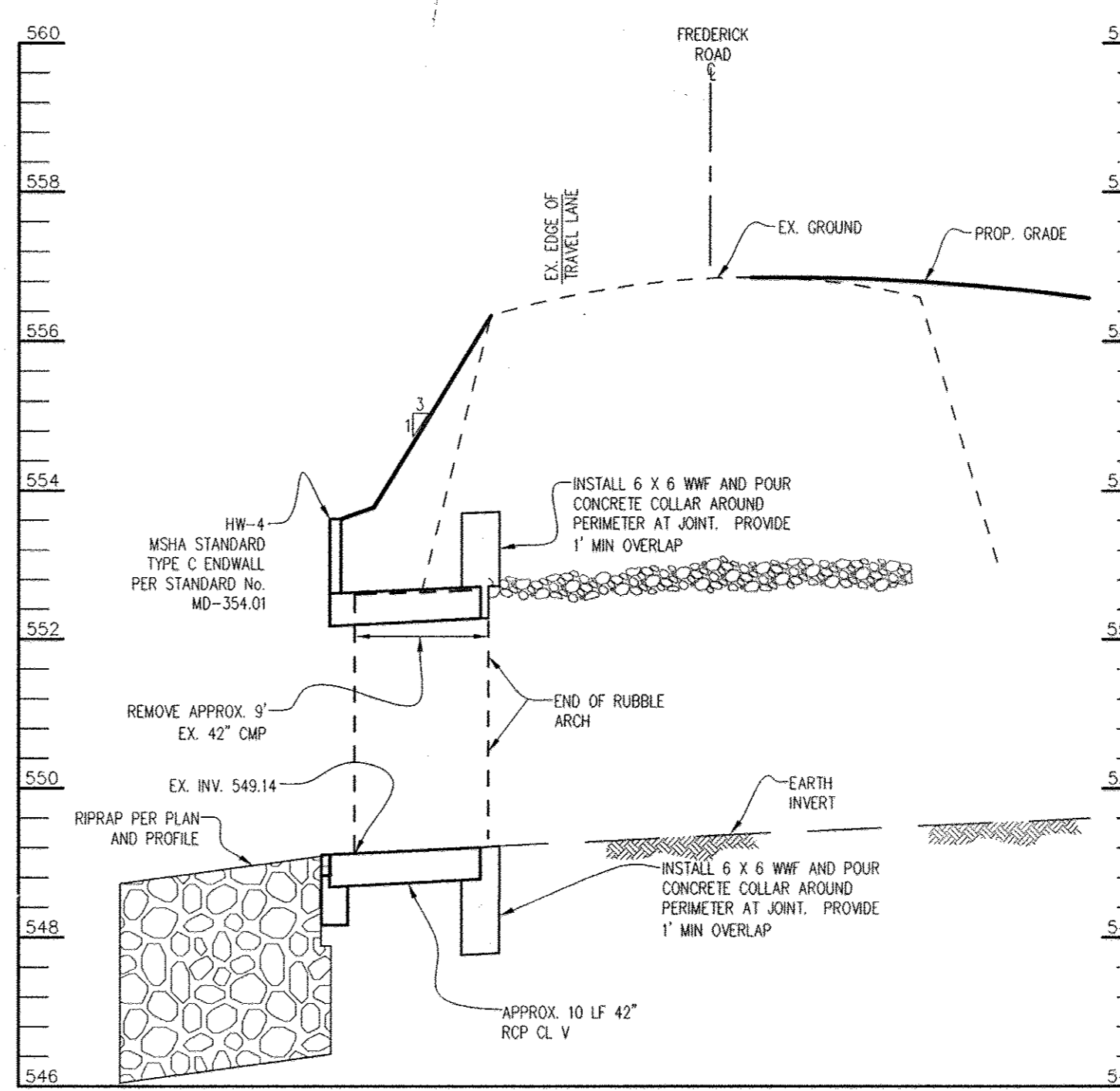
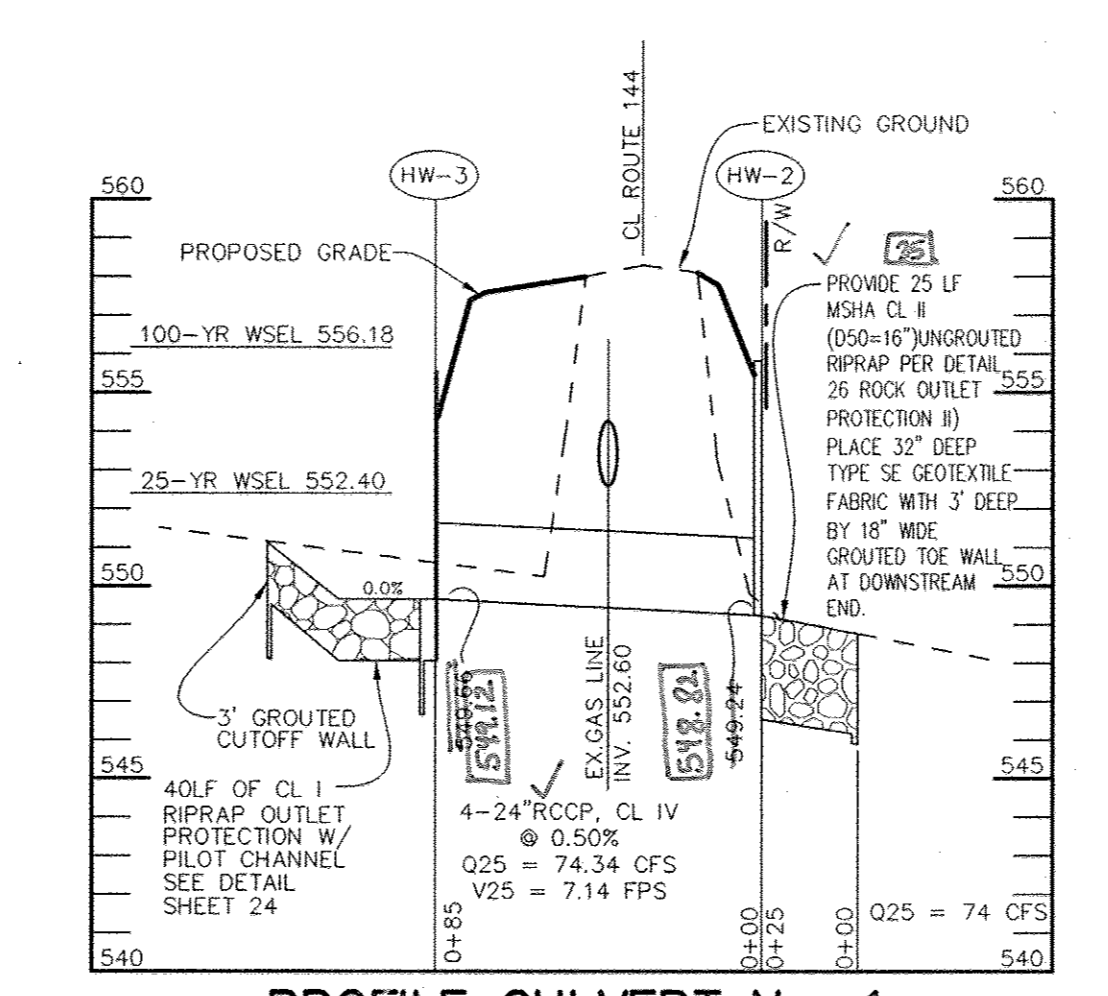
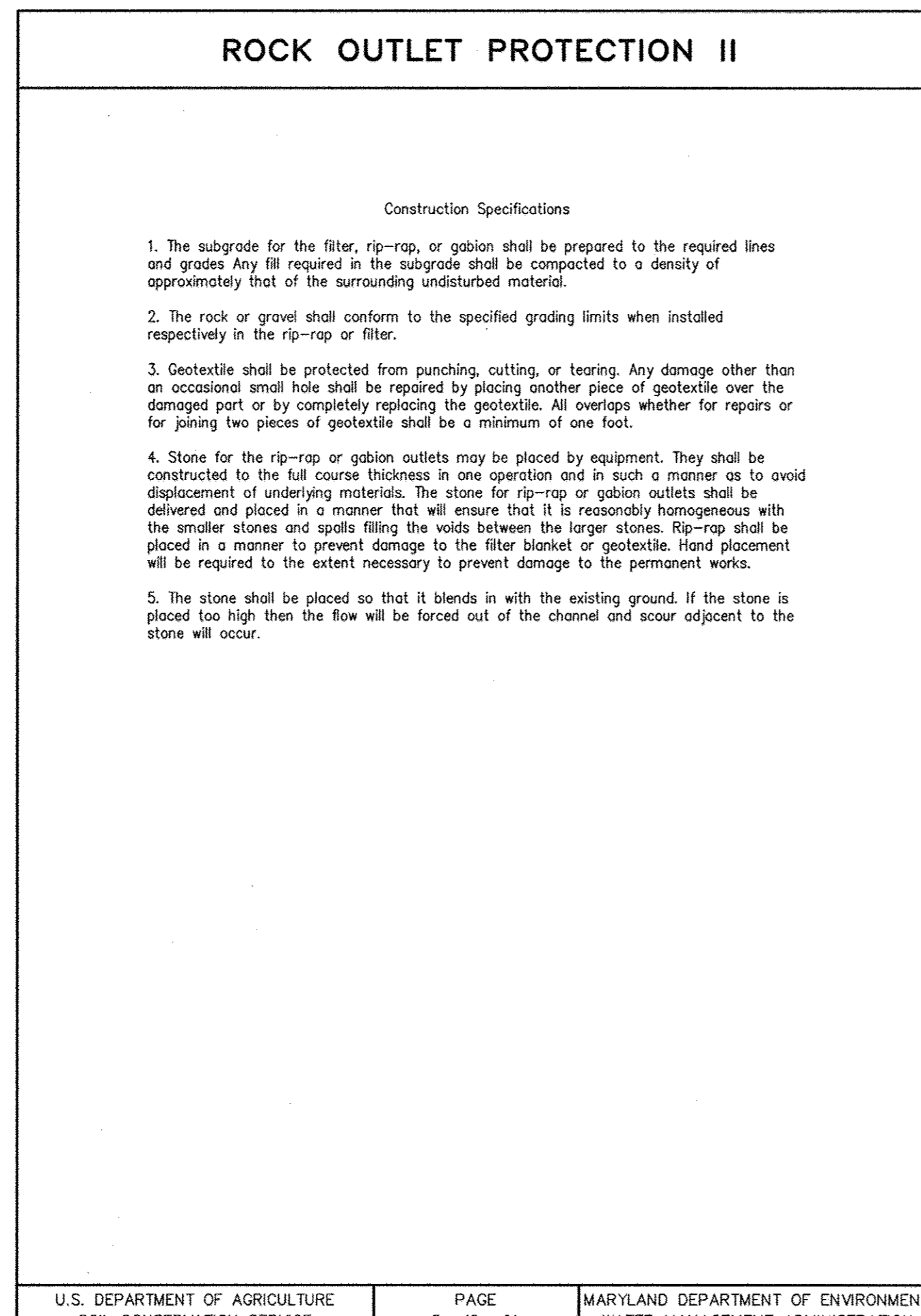
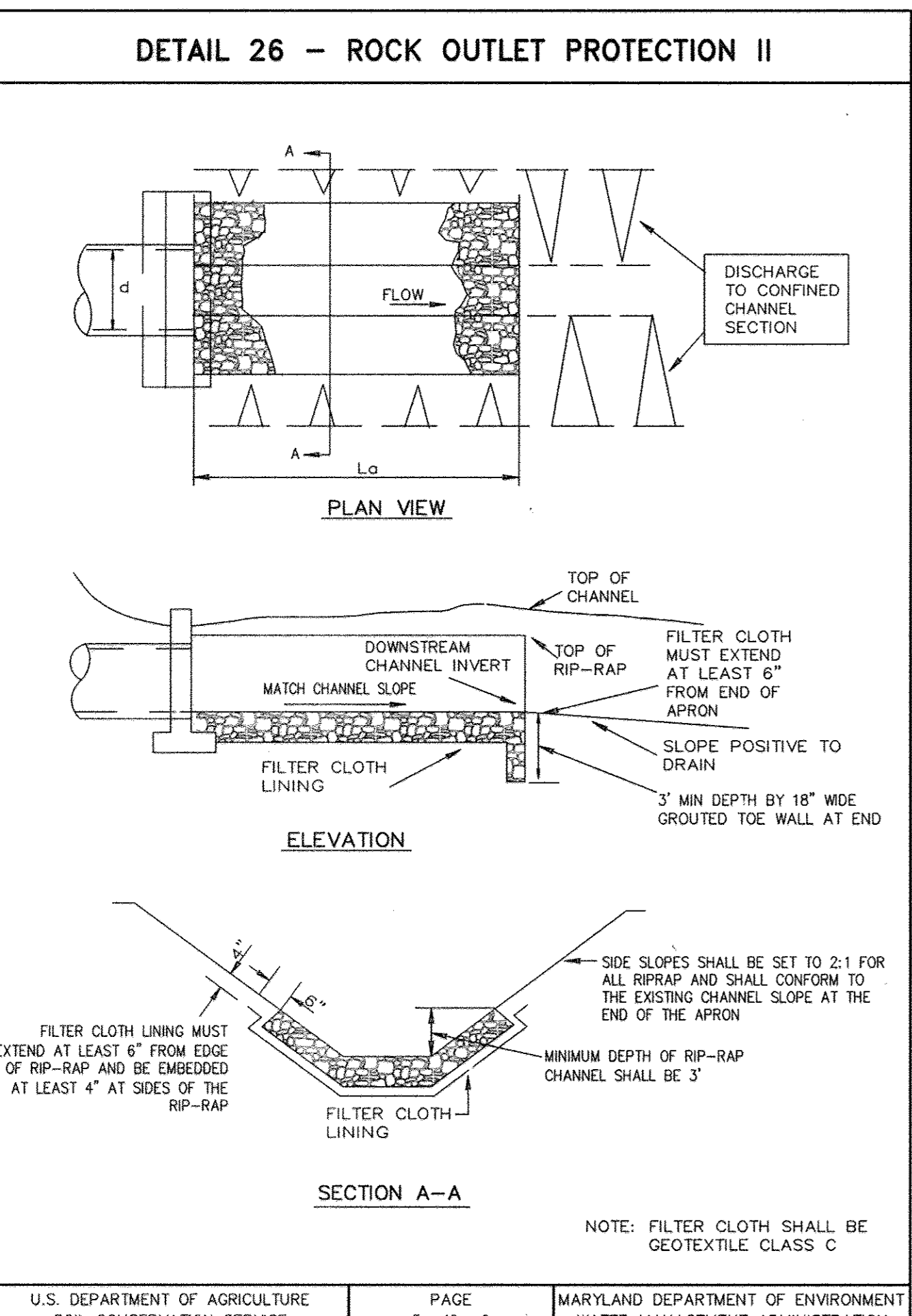
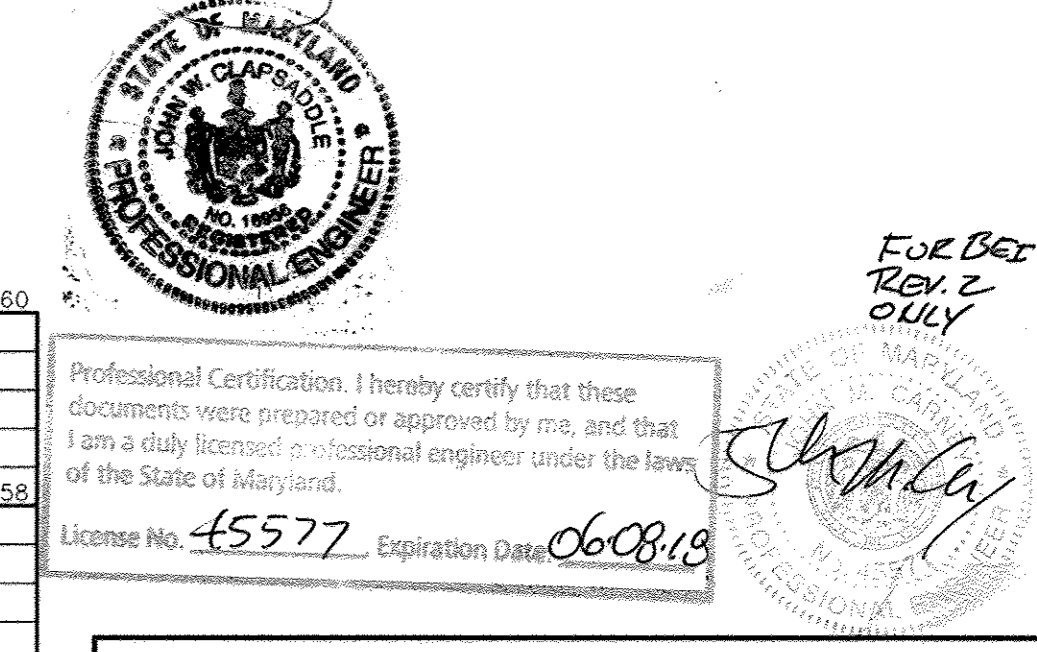
DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO: 22516/2-0/ENGR
C-400SIT-2
DATE: JULY 28, 2003
SCALE: 1" = 40'
DRAWING NO. 3 OF 51

CHRISTOPHER J. REID #19948
SDP-03-90



AS-BUILT STATEMENT:
 "I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."

JOHN W. CLAPSADLE 7/1/2008
 DATE



STRUCTURE SCHEDULE

STRUCTURE	TYPE	INSIDE DIMS	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
M-5	5'-0" DIA.	N 600609.98 E 1311815.22	549.68(48")	549.58(42")	556.4	HOCO STD. DETAIL G-5.13	
HW-2	TYPE "A" HEADWALL	N 600689 E 1311415	-	549.30(4-24")	-	REFER TO DETAIL ON SHEET 3	
HW-3	TYPE "A" HEADWALL	N 600757 E 1311440	-	549.66(4-24")	-	REFER TO DETAIL ON SHEET 3	
HW-4	TYPE "C" ENDWALL	N 600559 E 1311794	-	549.1 ±	-	MSHA STD. DETAIL MD-354.01	
HW-5	TYPE "E" HEADWALL	N 600614 E 1311838 (FACE & CORNER OF WALL)	-	549.90(48")	-	HOCO STD. DETAIL SD-5.31	

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 B. Wilson for Peter Baileman, MD R/R/K/F
 COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT
 DATE 11/20/07

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 Director: [Signature] DATE 12/14/07
 Chief, Development Engineering Division: [Signature] DATE 11/20/07
 Chief, Division of Land Development: [Signature] DATE 12/13/07

10/2/07 1 10/2/07 1
 REVISION: Change Name, Owner + Use
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
 MSHA CULVERT OUTFALL DESIGN PLAN
 REVISED SITE DEVELOPMENT PLAN
 Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: C.J.R.
 DRAWN BY: DAM
 PROJECT NO. 22516/2-0/ENGR C-400SIT-3A
 DATE: OCT. 2, 2007
 SCALE: 1" = 30'
 DRAWING NO. 3A OF 51

FOR CONTINUATION SEE SHEET 6



- NOTES:**
1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
 3. ALL ON-SITE ROADS ARE PRIVATE.
 4. ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 5. * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
 6. FOR LIGHTING SPECIFICATIONS AND DETAIL SEE SHEET 22.

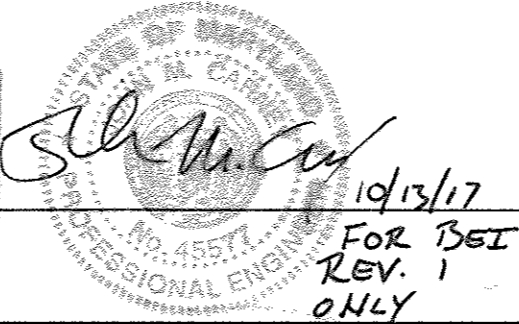
LEGEND

EXISTING 2' CONTOUR	---	300
EXISTING 10' CONTOUR	---	300
PROPOSED 2' CONTOUR	---	300
PROPOSED 10' CONTOUR	---	300
PROPERTY LINE AND RIGHT OF WAY	---	
FENCE	---	
GUARDRAIL	---	
STORM DRAIN	---	15"D
OVERHEAD WIRES	---	OHW
EXISTING TREELINE	---	
PROPOSED TREELINE	---	
PROP. SPOT ELEVATION	---	13'2
SETBACK LINES	---	
15%-25% SLOPES	---	
25% OR GREATER SLOPES	---	
MSHA PAVING	---	
P-1 PAVING	---	
P-3 PAVING	---	
CONCRETE SIDEWALK	---	
MACADAM SIDEWALK	---	
PROPOSED LIGHTS	---	
VEHICULAR INGRESS AND EGRESS RESTRICTED	---	
LIMIT OF WETLANDS	---	
PROPOSED REFORESTATION AREA (SEE SHEETS 40-45)	---	

FOR CONTINUATION SEE SHEET 5

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>[Signature]</i>	8/23/03
COUNTY HEALTH OFFICER	DATE
HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i>	8/20/03
DIRECTOR	DATE
<i>[Signature]</i>	8/20/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	8/20/03
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
10/12/17 167: Change Owner, Name & Use	
DATE NO.	REVISION
OWNER / DEVELOPER	
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT	
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
SITE DEVELOPMENT PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
7.28.03 DATE	
DESIGNED BY: C.J.R.	
DRAWN BY: DAM	
PROJECT NO: 22516/2-0/ENGR C-400SIT-3	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 4 OF 51	

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577 Expiration Date: 06-08-13



FOR CONTINUATION SEE SHEET 2

SDP-03-90

FOR CONTINUATION SEE SHEET 7

FOR CONTINUATION SEE SHEET 4

FOR CONTINUATION SEE SHEET 2

FOR CONTINUATION SEE SHEET 3



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date 06/08/18

For SET
 Rev. 2
 01/17

AS-BUILT STATEMENT:

"I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."

JOHN W. CLAPSADLE
 DATE 7/9/2008



- NOTES:**
1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
 3. ALL ON-SITE ROADS ARE PRIVATE.
 4. ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 5. * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
 6. FOR LIGHTING SPECIFICATIONS AND DETAIL SEE SHEET 22.

LEGEND

EXISTING 2' CONTOUR	--- 300
EXISTING 10' CONTOUR	--- 300
PROPOSED 2' CONTOUR	--- 300
PROPOSED 10' CONTOUR	--- 300
PROPERTY LINE AND RIGHT OF WAY	---
FENCE	---
GUARDRAIL	---
STORM DRAIN	---
OVERHEAD WIRES	--- OHW
EXISTING TREELINE	---
PROPOSED TREELINE	---
PROP. SPOT ELEVATION	15' 2
SETBACK LINES	---
15%-25% SLOPES	---
25% OR GREATER SLOPES	---
MSHA PAVING	---
P-1 PAVING	---
P-3 PAVING	---
CONCRETE SIDEWALK	---
MACADAM SIDEWALK	---
PROPOSED LIGHTS	---
VEHICULAR INGRESS AND EGRESS RESTRICTED	---
LIMIT OF WETLANDS	---
PROPOSED REFORESTATION AREA (SEE SHEETS 40-45)	---
* VI & ER	

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE

10/13/17 2 SET: Change Owner, Name + Use
 7/15/05 1 ADDED GRAVEL ACCESS DRIVE TO SEPTIC AREA AND REVISED DRIVEWAY.

DATE NO.	REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

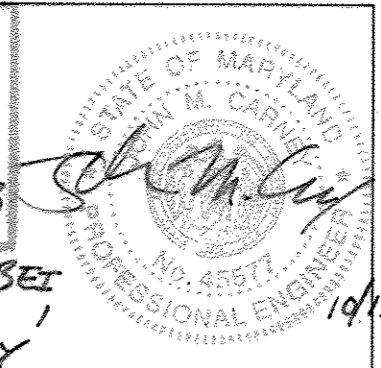
Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

7-28-03
 DATE

DESIGNED BY: C.J.R.
 DRAWN BY: DAM
 PROJECT NO.: 22516/2-0/ENGR C-400SIT-4
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO.: 5 OF 51

CHRISTOPHER J. REID #19949
 SDP-03-90

Professional Certification I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 06/08/18

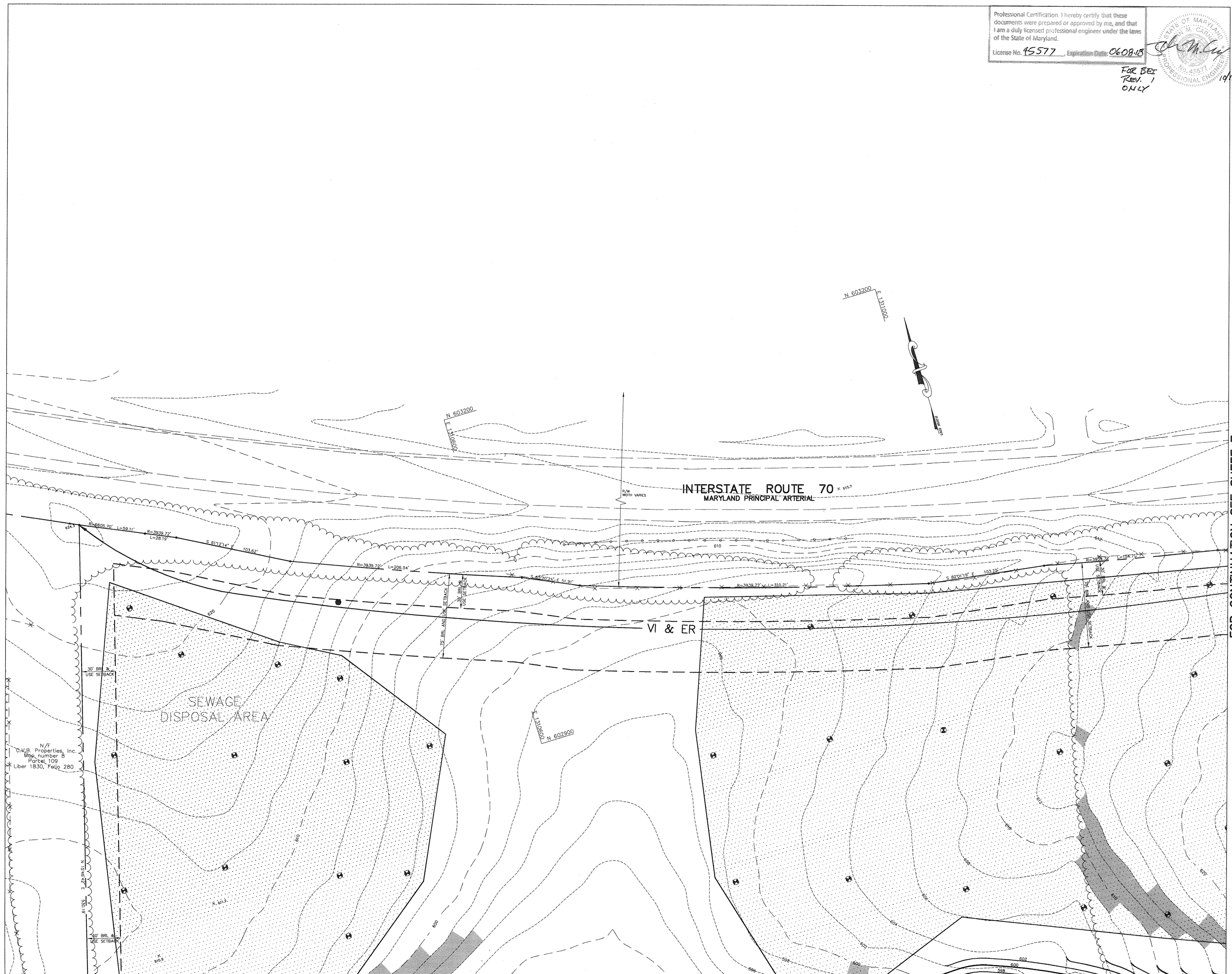


For BEI
 Rev. 1
 ONLY

- NOTES:**
1. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
 3. ALL ON-SITE ROADS ARE PRIVATE.
 4. ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
 5. * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
 6. FOR LIGHTING SPECIFICATIONS AND DETAIL SEE SHEET 22.

LEGEND

EXISTING 2' CONTOUR	--- 300 ---
EXISTING 10' CONTOUR	--- 300 ---
PROPOSED 2' CONTOUR	--- 300 ---
PROPOSED 10' CONTOUR	--- 300 ---
PROPERTY LINE AND RIGHT OF WAY	---
FENCE	---
GUARDRAIL	---
STORM DRAIN	--- 15" D ---
OVERHEAD WIRES	--- OHW ---
EXISTING TREELINE	---
PROPOSED TREELINE	---
PROP. SPOT ELEVATION	13' 2"
SETBACK LINES	---
15%-25% SLOPES	---
25% OR GREATER SLOPES	---
MSHA PAVING	---
P-1 PAVING	---
P-3 PAVING	---
CONCRETE SIDEWALK	---
MACADAM SIDEWALK	---
PROPOSED LIGHTS	*
VEHICULAR INGRESS AND EGRESS RESTRICTED	VI & ER
LIMIT OF WETLANDS	---
PROPOSED REFORESTATION AREA (SEE SHEETS 40-45)	---

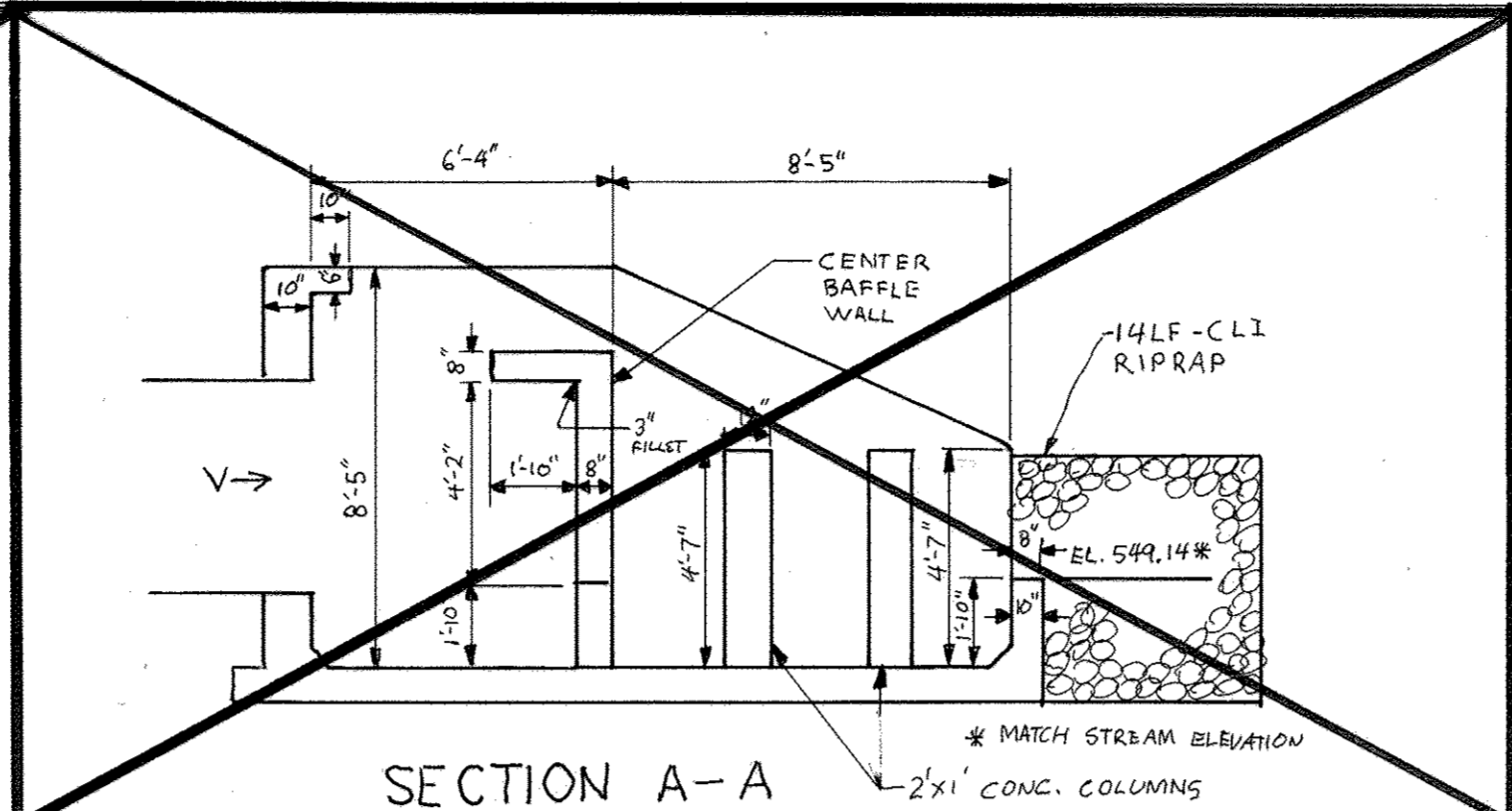
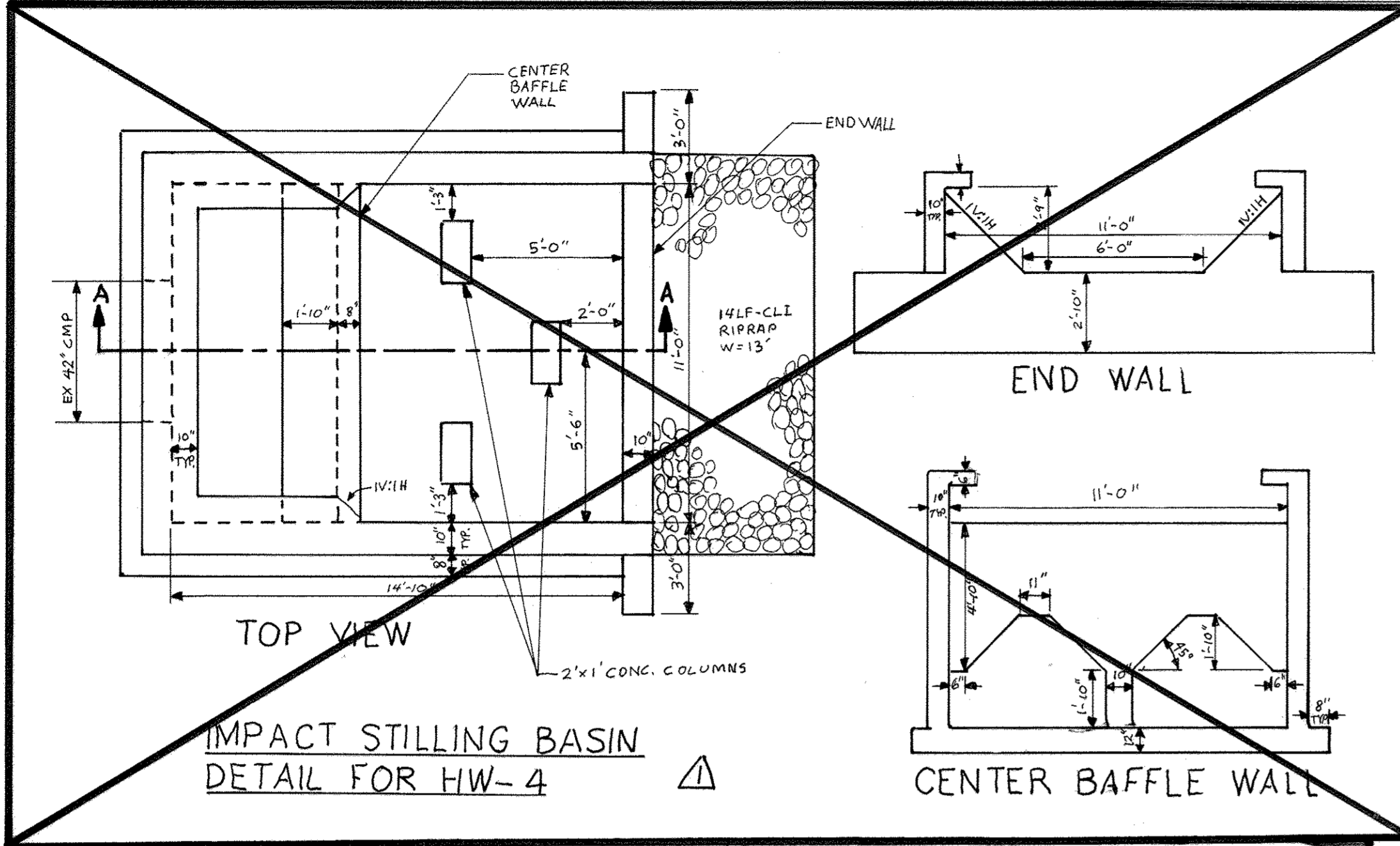


FOR CONTINUATION SEE SHEET 4

FOR CONTINUATION SEE SHEET 7

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>[Signature]</i>	DATE
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING	
<i>[Signature]</i>	DATE
DIRECTOR	
<i>[Signature]</i>	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>[Signature]</i>	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	
10/13/17	REVISION
DATE NO. REVISION	
OWNER / DEVELOPER	
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. 14196 FREDERICK ROAD 301-725-0220	
PROJECT	
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
SITE DEVELOPMENT PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
7-28-03 DATE	
DESIGNED BY: C.J.R.	
DRAWN BY: DAM	
PROJECT NO: 22516/2-0/ENGR C-400SIT-5	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 6 OF 51	
CHRISTOPHER J. REID #19949	

SDP-03-90



STILLING BASIN NOTES

- STRUCTURE TO BE PRECAST. SHOP DRAWINGS FOR THIS CONCRETE STRUCTURE SHALL MEET THE MINIMUM ASTM REQUIREMENTS FOR PRECAST STRUCTURES. A SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND SHALL BE SIGNED AND SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER.
- CONCRETE SHALL BE MSHA MIX NO. 3 (4250 PSI MINIMUM).
- ALL JOINTS SHALL BE WATER-TIGHT USING NEOPRENE GASKETS.
- STILLING BASIN SHALL BE PLACED ON A FIRMLY COMPACTED SUBGRADE AND SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- USE FLOWABLE FILL FOR THE BANK FILL FOR THE 4-24" PIPES

NOTES:

- ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
- ALL ON-SITE ROADS ARE PRIVATE.
- ALL LIGHTING IS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES, AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
- * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
- FOR LIGHTING SPECIFICATIONS AND DETAIL SEE SHEET 22.

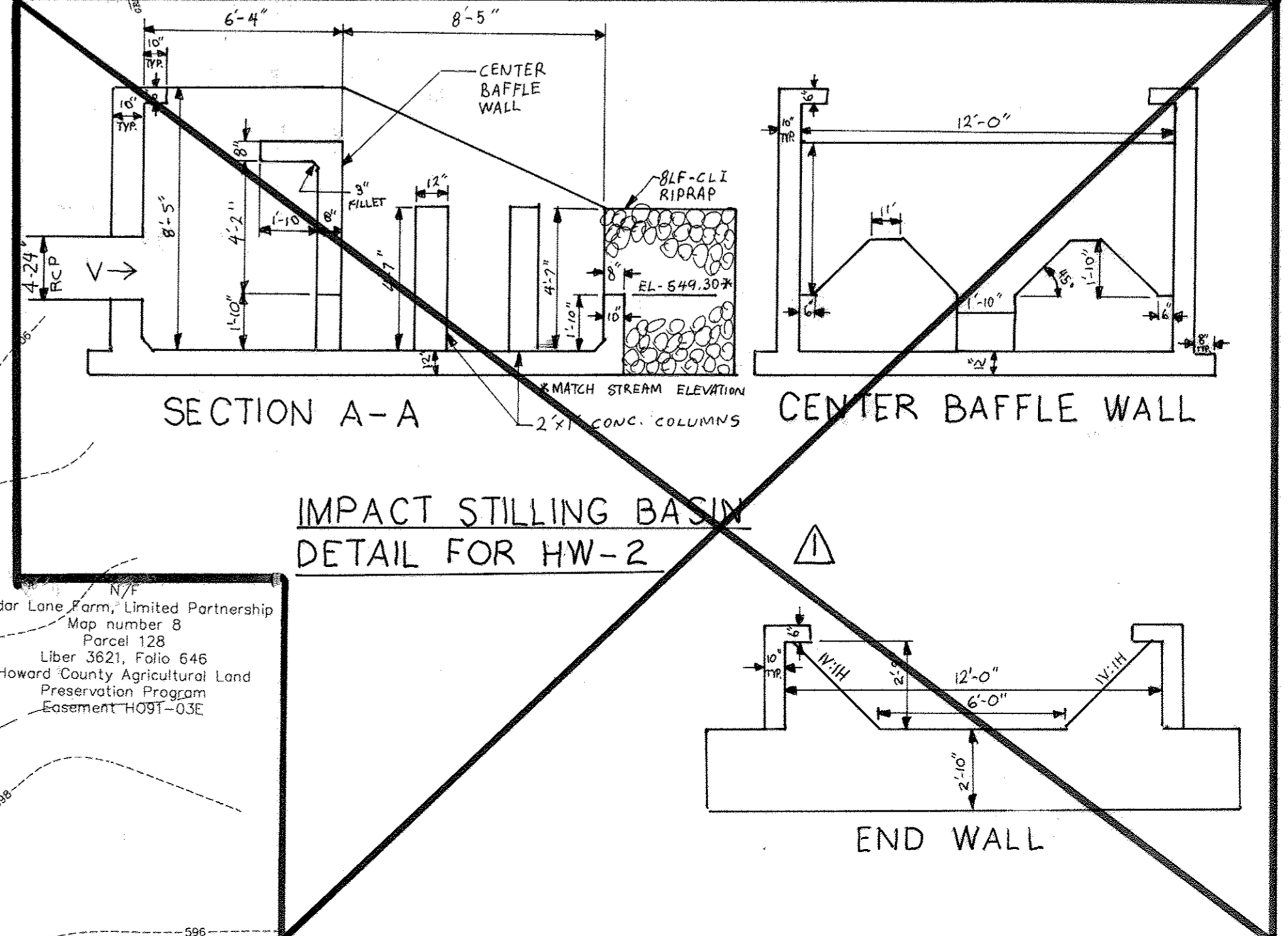
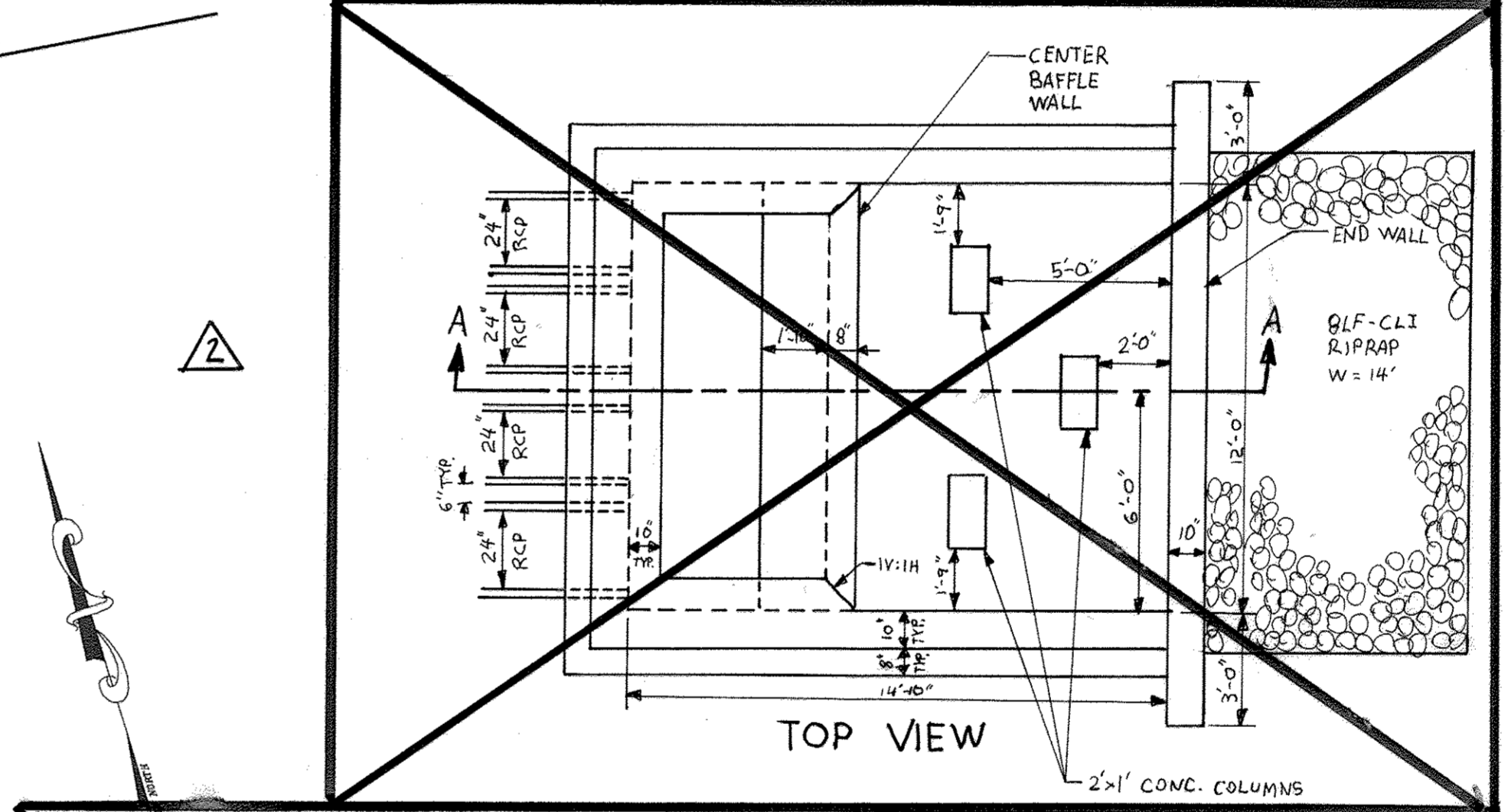
LEGEND

EXISTING 2' CONTOUR	---	300
EXISTING 10' CONTOUR	---	300
PROPOSED 2' CONTOUR	---	300
PROPOSED 10' CONTOUR	---	300
PROPERTY LINE AND RIGHT OF WAY	---	
FENCE	---	
GUARDRAIL	---	
STORM DRAIN	---	15"D
OVERHEAD WIRES	---	OHW
EXISTING TREELINE	---	
PROPOSED TREELINE	---	
PROP. SPOT ELEVATION	---	13'2
SETBACK LINES	---	
15%-25% SLOPES	---	
25% OR GREATER SLOPES	---	
MSHA PAVING	---	
P-1 PAVING	---	
P-3 PAVING	---	
CONCRETE SIDEWALK	---	
MACADAM SIDEWALK	---	
PROPOSED LIGHTS	---	
VEHICULAR INGRESS AND EGRESS RESTRICTED	---	
LIMIT OF WETLANDS	---	
PROPOSED REFORESTATION AREA (SEE SHEETS 40-45)	---	

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 06/08/18

FOR SET: REV 3 ONLY
 10/13/17

FOR CONTINUATION SEE SHEET 6



IMPACT STILLING BASIN DETAIL FOR HW-2

FOR CONTINUATION SEE SHEET 5

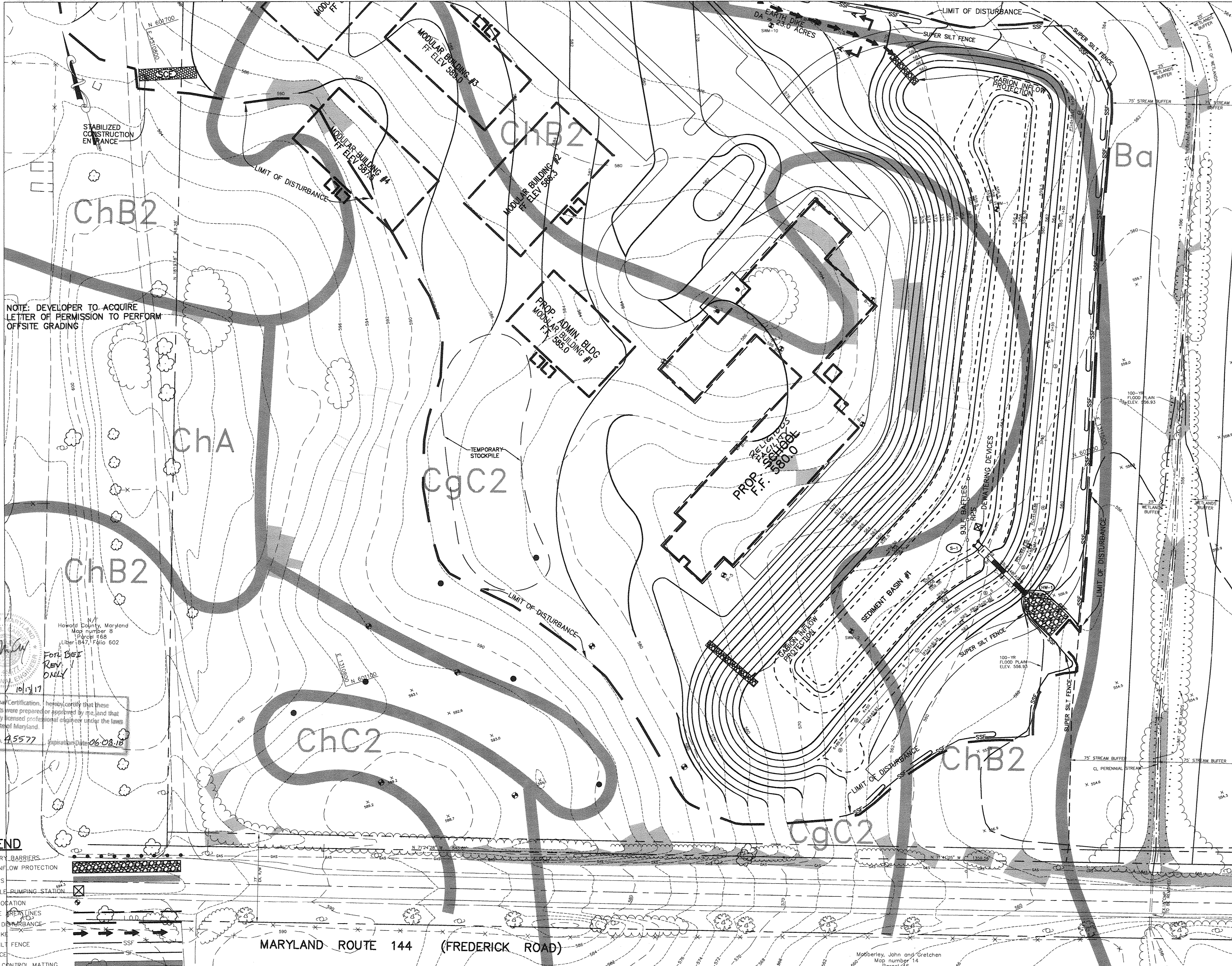
10-13-17	3	Rev: Change Owner, Title & Use.
11/1/07	2	DELETE IMPACT STILLING BASINS
DATE	NO.	REVISION
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS		
Howard County Health Officer		8-22-03 DATE
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
Director		8/17/03 DATE
Chief, Development Engineering Division		8/20/03 DATE
Chief, Division of Land Development		8/27/03 DATE
DATE	NO.	REVISION
7/5/05	1	ADD 10' GRAVEL ACCESS DRIVE TO SEPTIC AREA AND STILLING BASIN DETAILS
OWNER / DEVELOPER	ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT	ST. MARY COPTIC ORTHODOX CHURCH PHASE I - RELIGIOUS FACILITY	
AREA	TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	SITE DEVELOPMENT PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		
DATE	7-28-03	
	DESIGNED BY:	C.J.R.
	DRAWN BY:	DAM
	PROJECT NO.	22516/2-0/ENGR C-400SIT-6
	DATE:	JULY 28, 2003
SCALE:	1" = 40'	
CHRISTOPHER J. REID #19949	DRAWING NO. 7 OF 51	

FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 11

DAM CENTERLINE DATA

①	N 601443.53	
②	E 1311547.40	
SEDIMENT BASIN #1		
③	S 22°17'11" W 225.26'	DRAINAGE AREA 34.0 ACRES
④	S 22°24'30" W 121.94'	STOR. RES'D (WET STOR.) 61200 CF
⑤	R=119.97' L=57.33'	STOR. PROV. (WET STOR.) 61200 CF @ 559.33
⑥	R=70.00' L=38.06'	STOR. PROV. (DRY STOR.) 65030 CF @ 560.58
⑦	R=193.61' L=79.97'	RISER CREST ELEVATION 558.00
⑧	S 58°14'58" W 81.73'	BASEIN CLEANOUT ELEVATION 565.0
⑨	R=1763.61' L=26.30'	TOP OF DAM 565.0
	N 600919.43	BOTTOM EL. 556.5
	E 1311201.48	SIDE SLOPES 3:1
		Q EX 7.42 CFS
		Q PR 5.95 CFS



NOTE: DEVELOPER TO ACQUIRE LETTER OF PERMISSION TO PERFORM OFFSITE GRADING

FOR CONTINUATION SEE SHEET 9

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 7.28.03
DEVELOPER DATE

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

[Signature] 7.28.03
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

[Signature] 8/14/03
NATURAL RESOURCES CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 8/14/03
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature] 8-22-03
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] 6/20/03
DIRECTOR DATE

[Signature] 7/2/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION MJK DATE

[Signature] 8/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10.13.17 / 1 / REV: Revise School to Religious Facility

DATE NO. REVISION

OWNER / DEVELOPER

ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT

ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS CHURCH

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

INTERIM GRADING AND
SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

7.28.03
DATE

DESIGNED BY : C.J.R.

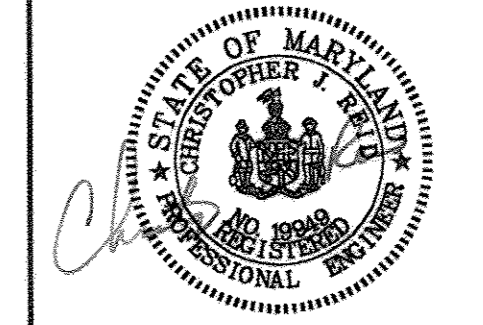
DRAWN BY: DAM

PROJECT NO : 22516/2-0/ENGR
"C-250ESC-1"

DATE : JULY 28, 2003

SCALE : 1" = 40'

DRAWING NO. 8 OF 51



Professional Certification, 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. 25577 Expiration Date 06/08/18

10/17/17

LEGEND

TEMPORARY BARRIERS	[Symbol]
RIPRAP INFLOW PROTECTION	[Symbol]
SOIL LINES	[Symbol]
REMOVABLE PUMPING STATION	[Symbol]
BORING LOCATION	[Symbol]
DRAINAGE DITCH LINES	[Symbol]
LIMIT OF DISTURBANCE	[Symbol]
EARTH DIKE	[Symbol]
SUPER SILT FENCE	[Symbol]
SILT FENCE	[Symbol]
EROSION CONTROL MATTING	[Symbol]
STABILIZED CONSTRUCTION ENTRANCE	[Symbol]
15%-25% SLOPES	[Symbol]
25% OR GREATER SLOPES	[Symbol]

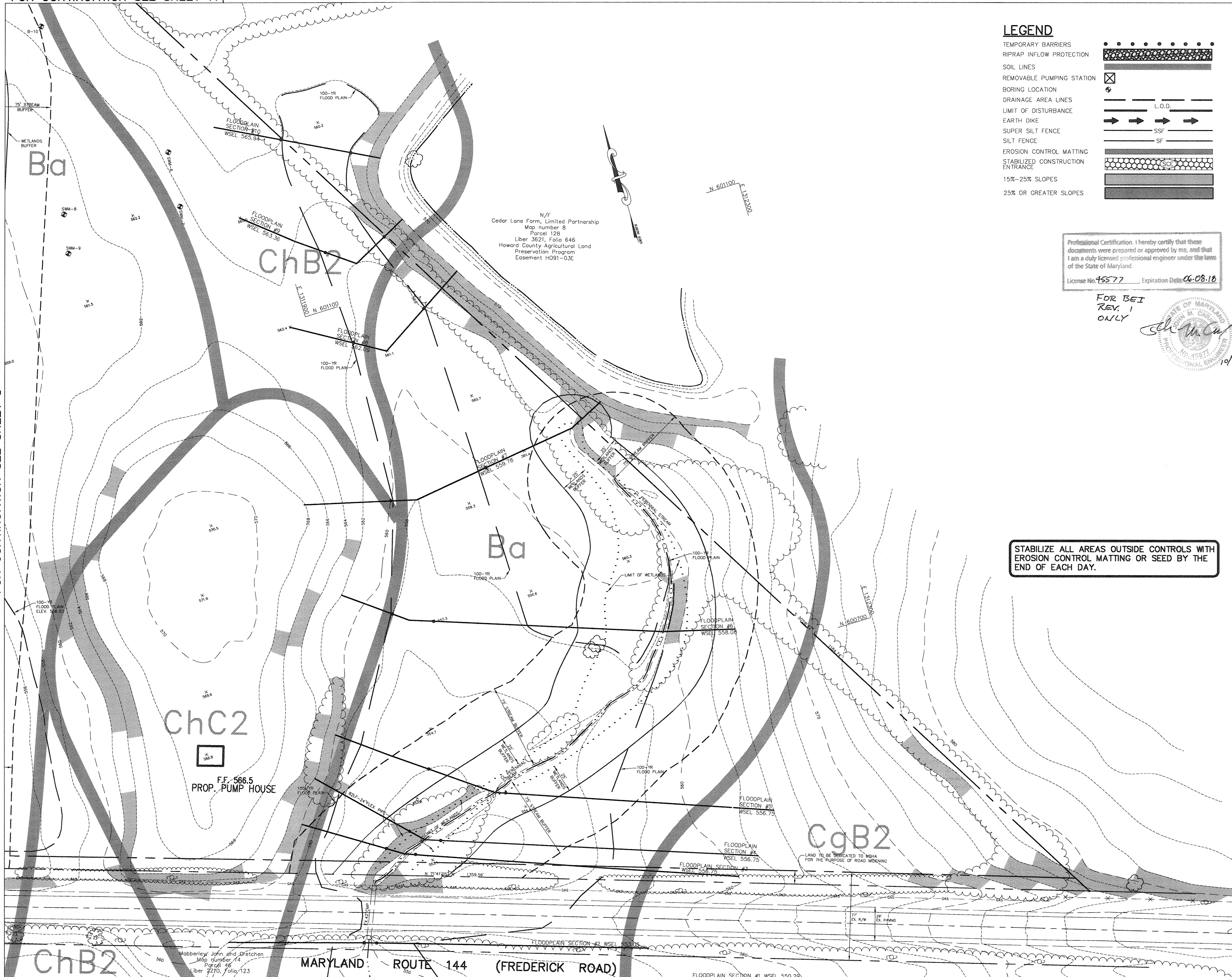
ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

FOR CONTINUATION SEE SHEET 11 |

FOR CONTINUATION SEE SHEET 8



LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date 06-08-16

FOR BEI
REV. 1
ONLY



ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.

BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DEVELOPER: *[Signature]* DATE: 7-28-03

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
 ENGINEER: *[Signature]* DATE: 7-28-03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES/CONSERVATION SERVICE: *[Signature]* DATE: 8/10/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT: *[Signature]* DATE: 8/10/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 8-22-03
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR: *[Signature]* DATE: 8/18/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 8/18/03

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 5/2/03

10-12-17 1 Best Reuse Owner Name & Use
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

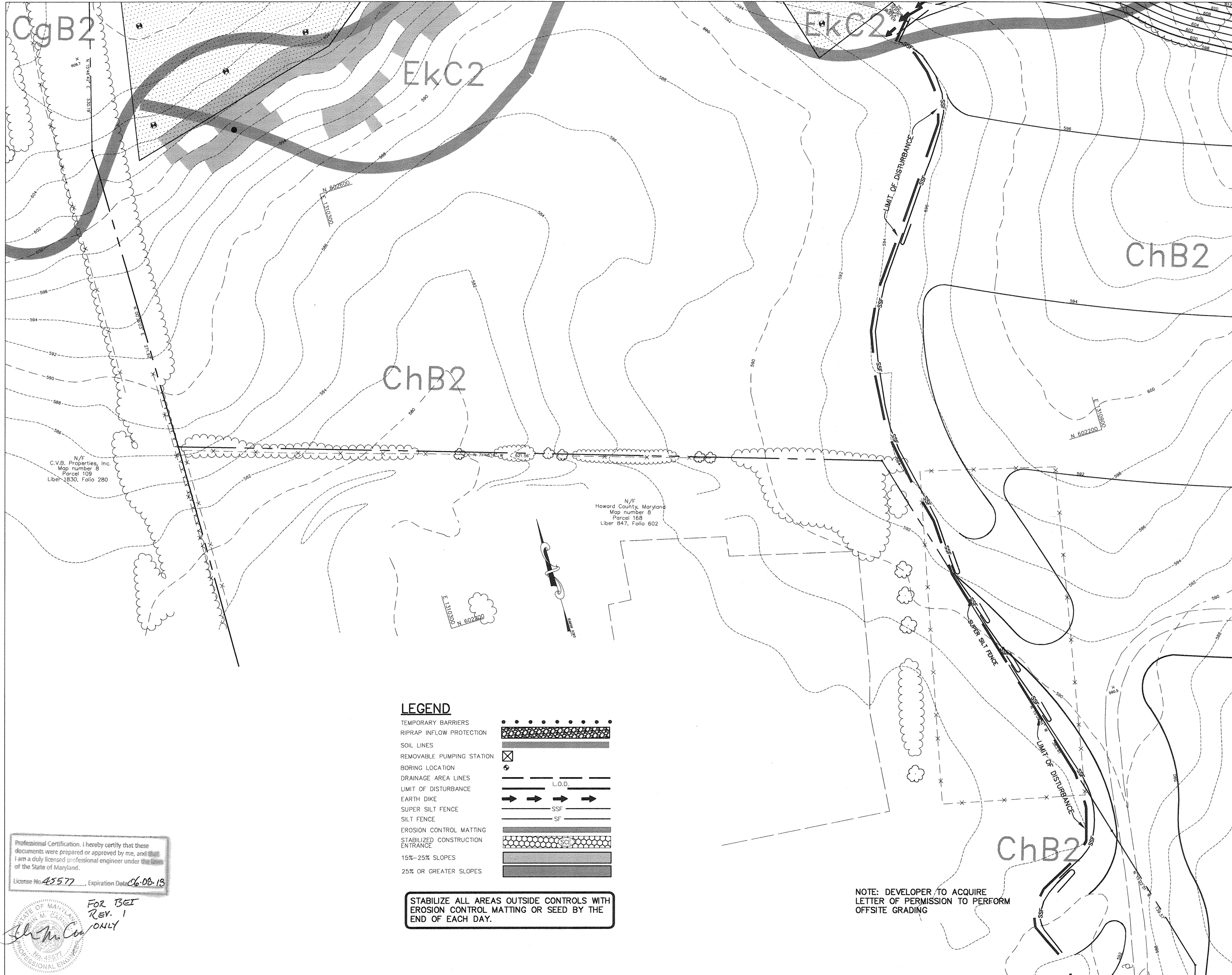
TITLE
**INTERIM GRADING AND
 SEDIMENT CONTROL PLAN**
 Patton Harris Rust & Associates, p.c.
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE: 7-28-03
 DESIGNED BY: C.J.R.
 DRAWN BY: DAM
 PROJECT NO: 22516/2-0/ENGR
 C-250ESC-2
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 9 OF 51
 CHRISTOPHER J. REID #19949
 SDP-03-90

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

P:\project\22516\2-0\Engn\Plans\C-250ESC-2.dwg Layout1, 07/23/2003 04:52:47 PM, HP1050C_Draft.pct, Arch D - 24 x 36 in. (landscape), 1:1



ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.

BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER *J. J. ...* DATE 7.28.03

BY THE ENGINEER :
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER *Chad J. ...* DATE 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION. SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE *Jin ...* DATE 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT *...* DATE 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER *...* DATE 8/22/03
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR *Mark ...* DATE 8/14/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION *...* DATE 9/14/03

CHIEF, DIVISION OF LAND DEVELOPMENT *...* DATE 8/27/03

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

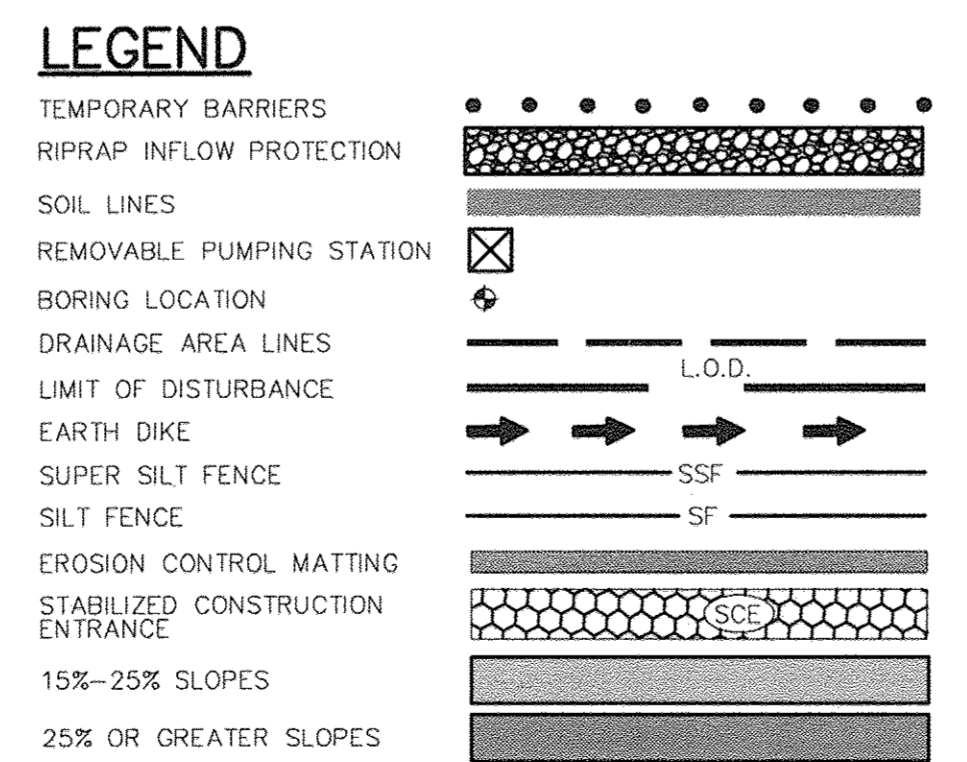
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
INTERIM GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, p.c.
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE 7.28.03
DESIGNED BY : C.J.R.
DRAWN BY: DAM
PROJECT NO : 22516/2-0/ENGR C-250ESC-3
DATE : JULY 28, 2003
SCALE : 1" = 40'
DRAWING NO. 10 OF 51

CHRISTOPHER J. REID #19949
SDP-03-90



STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

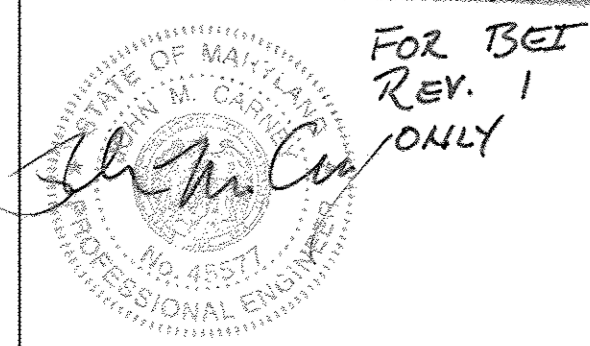
NOTE: DEVELOPER TO ACQUIRE LETTER OF PERMISSION TO PERFORM OFFSITE GRADING

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

FOR CONTINUATION SEE SHEET 8

FOR CONTINUATION SEE SHEET 11

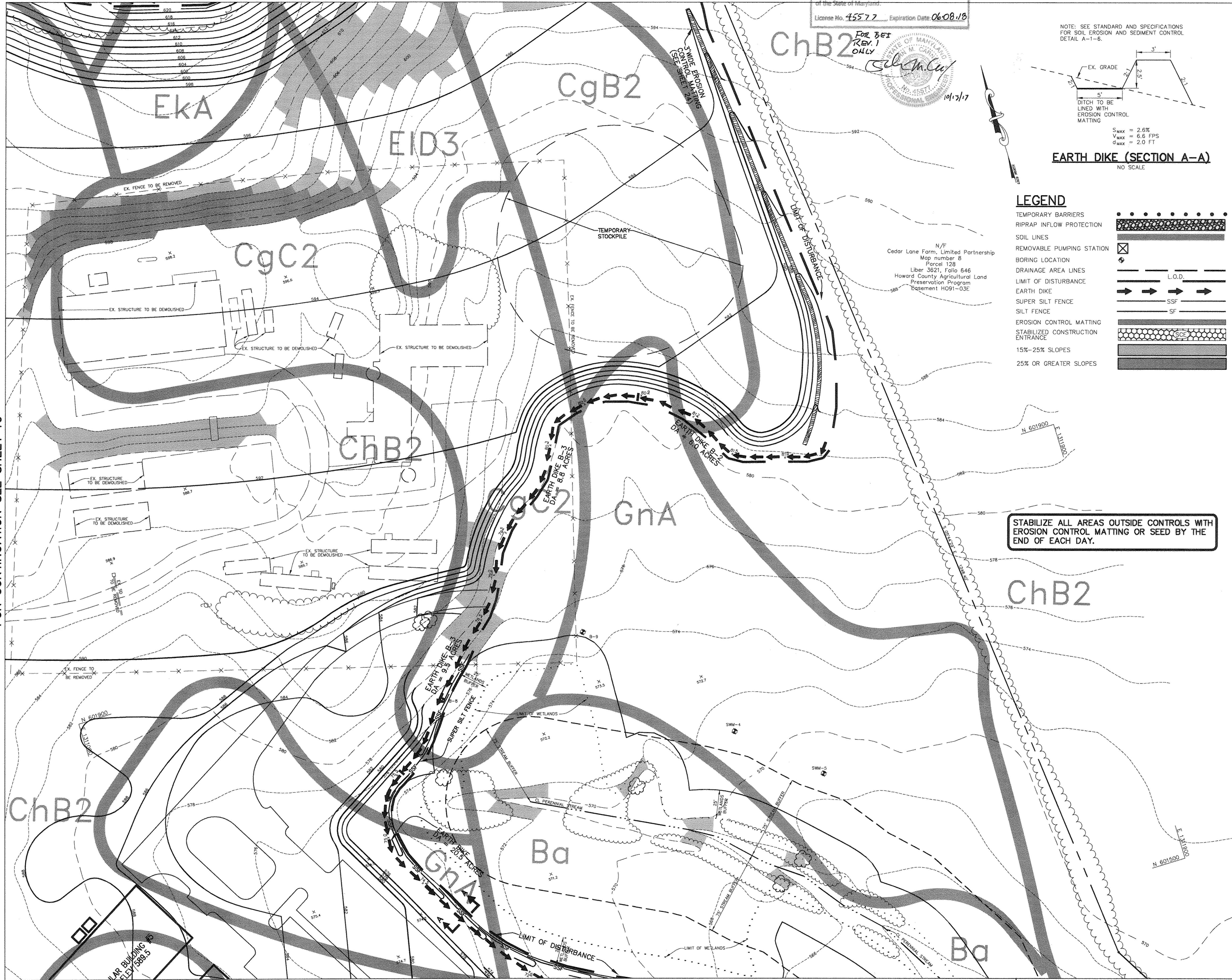
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577 Expiration Date 06-06-13



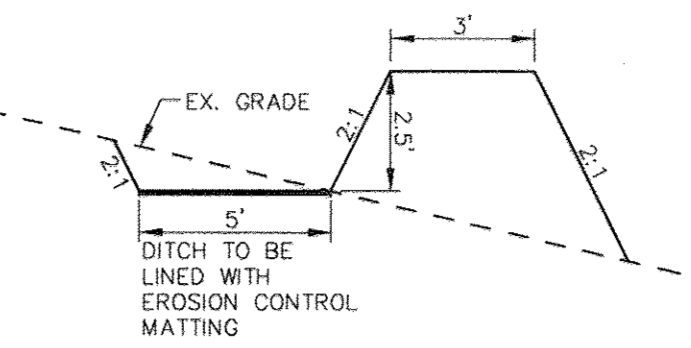
FOR BET REV. 1 ONLY

FOR CONTINUATION SEE SHEET 13

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45572 Expiration Date: 06/08/18



NOTE: SEE STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL DETAIL A-1-B.



LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

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BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *Systat* 7.28.03 DATE

BY THE ENGINEER :
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *Chidy J. Reid* 7.28.03 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE: *Jim M.../ca* 8/14/03 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT: *John S...* 8/14/03 DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER: *...* 8-22-03 DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *...* 8/14/03 DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *...* 8/14/03 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT: *...* 8/21/03 DATE

10.13.17) *Revise Owner Name & Use by Bel*
DATE NO. REVISION

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
INTERIM GRADING AND SEDIMENT CONTROL PLAN
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE: 7.28.03
DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO: 22516/2-0/ENGR C-250ESC-4
DATE: JULY 28, 2003
SCALE: 1" = 40'
DRAWING NO. 11 OF 51

CHRISTOPHER J. REID #19949
SDP-03-90

FOR CONTINUATION SEE SHEET 10

FOR CONTINUATION SEE SHEET 8

FOR CONTINUATION SEE SHEET 9

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

P:\project\2516\2-0\Engr\Plans\C-250ESC-4.dwg, Layout1, 07/25/2003 09:22:37 AM, HP1080C, Draft.pc3, Arch D - 24 x 36 in. (landscape), 11

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date 06.08.18

For BGT
 REV. 1
 ONLY



LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

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DEVELOPER *S. S. S.* DATE 7.28.03

BY THE ENGINEER :
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER *Christopher J. Reid* DATE 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES SERVICE *Jim Meyer* DATE 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT *John A. ...* DATE 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER *...* DATE 8/22/03
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR *Mark ...* DATE 8/20/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION *MRT* DATE 8/20/03

CHIEF, DIVISION OF LAND DEVELOPMENT *HB* DATE 8/20/03

10.13.171 Revise Name, Owner + Use by BGT
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE I - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
**INTERIM GRADING AND
 SEDIMENT CONTROL PLAN**

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 PHRA
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE 7.28.03

DESIGNED BY: C.J.R.

DRAWN BY: DAM

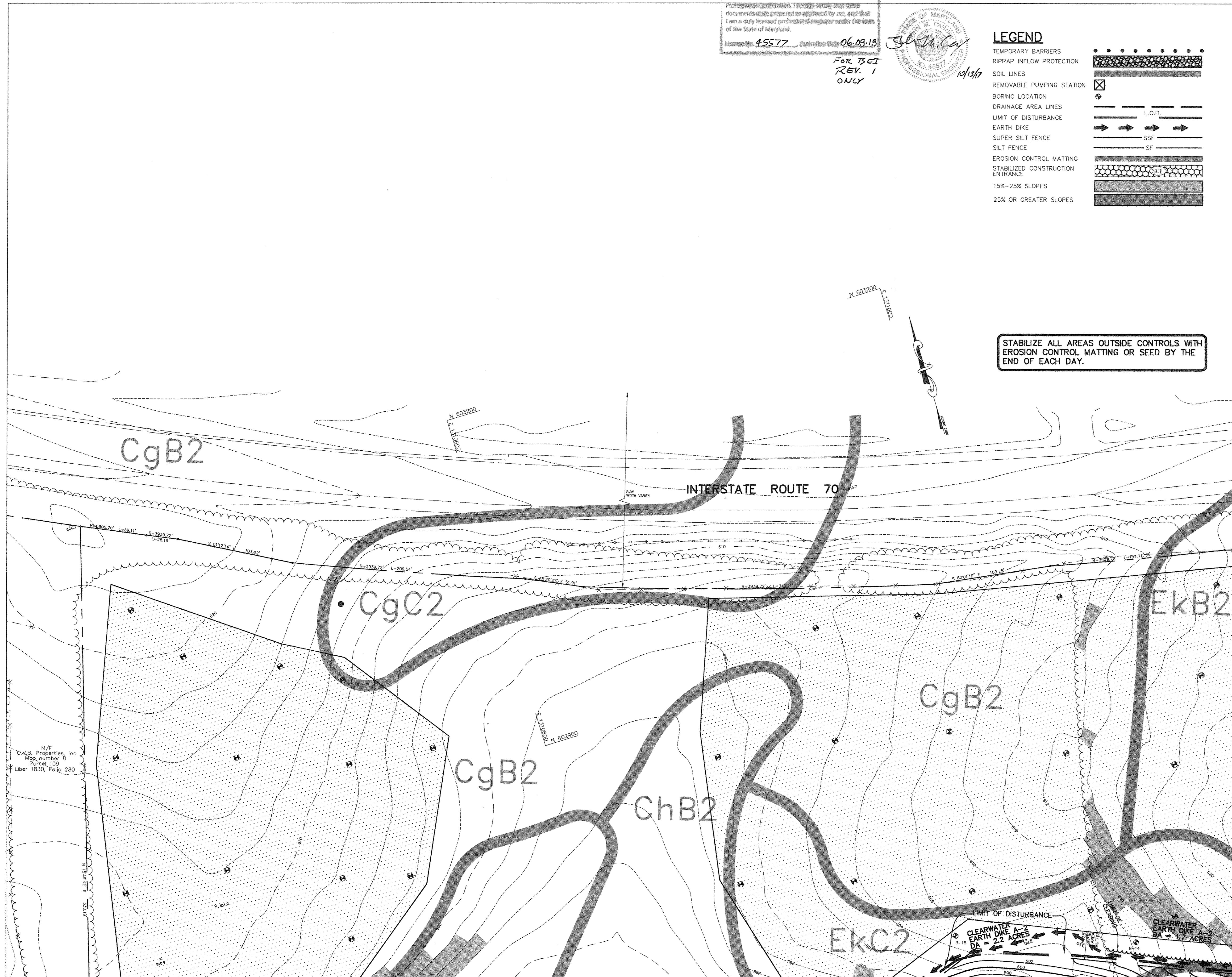
PROJECT NO. 22516/2-0/ENGR
 C-250ESC-5

DATE: JULY 28, 2003

SCALE: 1" = 40'

DRAWING NO. 12 OF 51

CHRISTOPHER J. REID #19949
 SDP-03-90



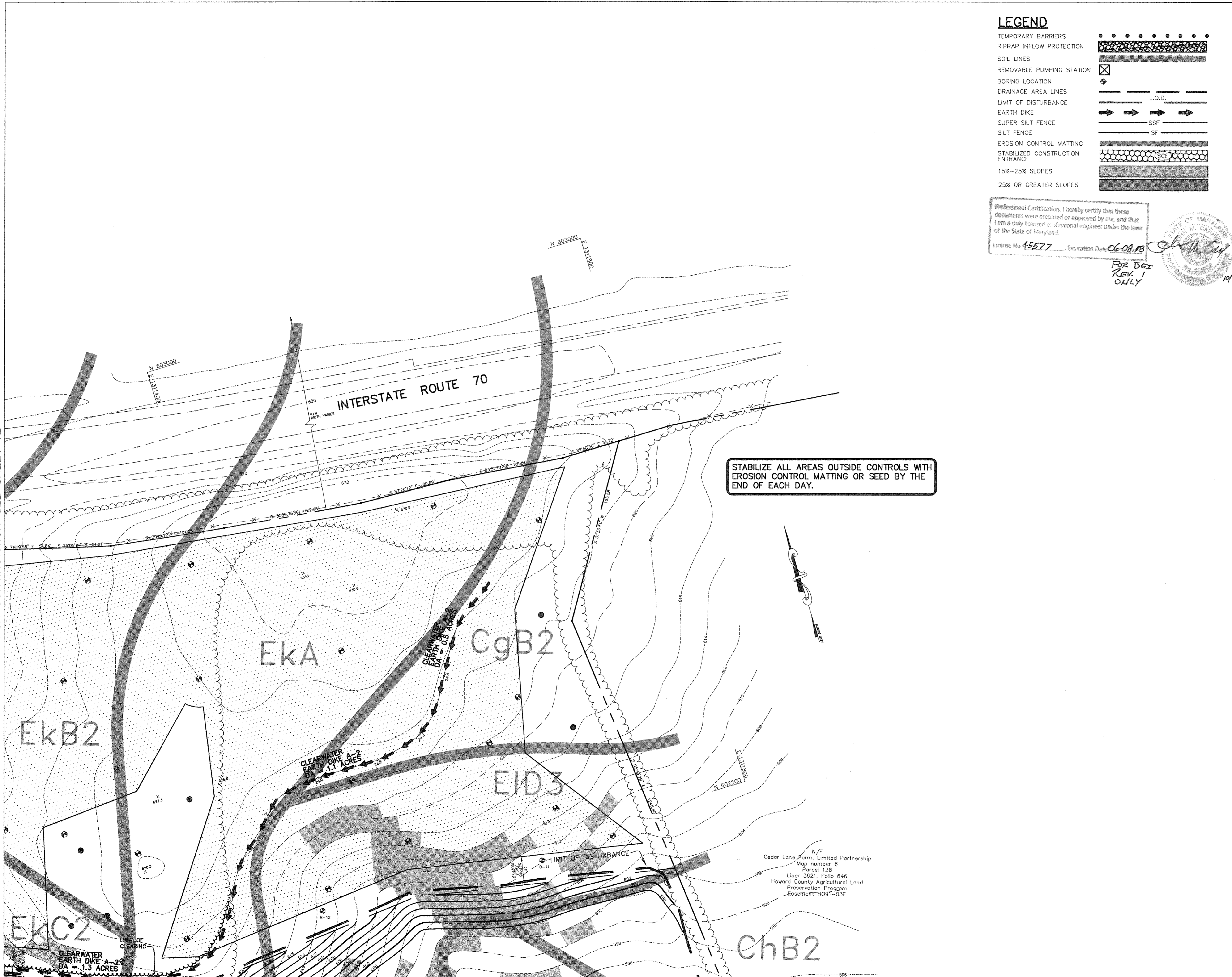
STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

FOR CONTINUATION SEE SHEET 13

FOR CONTINUATION SEE SHEET 10

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

FOR CONTINUATION SEE SHEET 12

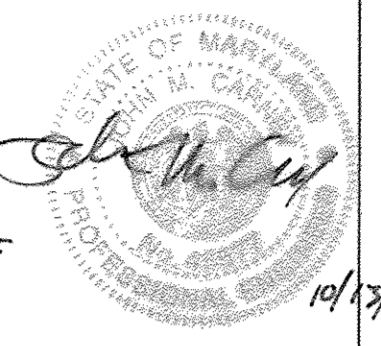


FOR CONTINUATION SEE SHEET 11

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
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- 25% OR GREATER SLOPES

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 06-08-18



FOR SET
REV. 1
ONLY

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DEVELOPER *[Signature]* DATE 7-28-03

BY THE ENGINEER :
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ENGINEER *[Signature]* DATE 7-28-03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL-POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE *[Signature]* DATE 8/14/03

THESE PLANS FOR SMALL-POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT *[Signature]* DATE 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT *[Signature]* DATE 8-22-03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR *[Signature]* DATE 8/20/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION *[Signature]* DATE 8/20/03

CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* DATE 8/27/03

10-13-12 1 *[Signature]* REVISE OWNER NAME & USE
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21743
 14196 FRED BRICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
INTERIM GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

7-28-03
 DATE
 DESIGNED BY : C.J.R.
 DRAWN BY: DAM
 PROJECT NO : 22516/2-0/ENR
 C-250ESC-6
 DATE : JULY 28, 2003
 SCALE : 1" = 40'
 CHRISTOPHER J. REID #19949
 DRAWING NO. 13 OF 51

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

SDP-03-90

FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 17

Documents were prepared or approved by me and I am a duly licensed professional engineer under the laws of the State of Maryland.

For BE 1 REV. 3 ONLY

SEDIMENT BASIN #1

DRAINAGE AREA	34.0 ACRES
STOR. CAP. (WET STOR.)	61200 CF
STOR. CAP. (DRY STOR.)	61200 CF
STOR. CAP. (WET STOR.)	61200 CF @ 559.33
STOR. CAP. (DRY STOR.)	65030 CF @ 560.58
RISER CREST ELEVATION	560.58
BASEIN CLEANOUT ELEVATION	558.00
TOP OF DAM	565.0
BOTTOM EL.	556.5
SIDE SLOPES	3:1
Q ₁ EX	7.42 CFS
Q ₁ PR	5.95 CFS

3 10/17/10 REVISE TO RELIGIOUS FACILITY OWNER NAME PER

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER *J. J. ...* DATE 7.28.03

BY THE ENGINEER :

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER *Chitoy J. Res...* DATE 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE *[Signature]* DATE 8/19/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT *[Signature]* DATE 8/19/03

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER *[Signature]* DATE 8/19/03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR *[Signature]* DATE 8/19/03

CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* DATE 8/19/03

CHANGED A-SLOTS TO STILLING BASIN AND 54" TO 42" ROPS.

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
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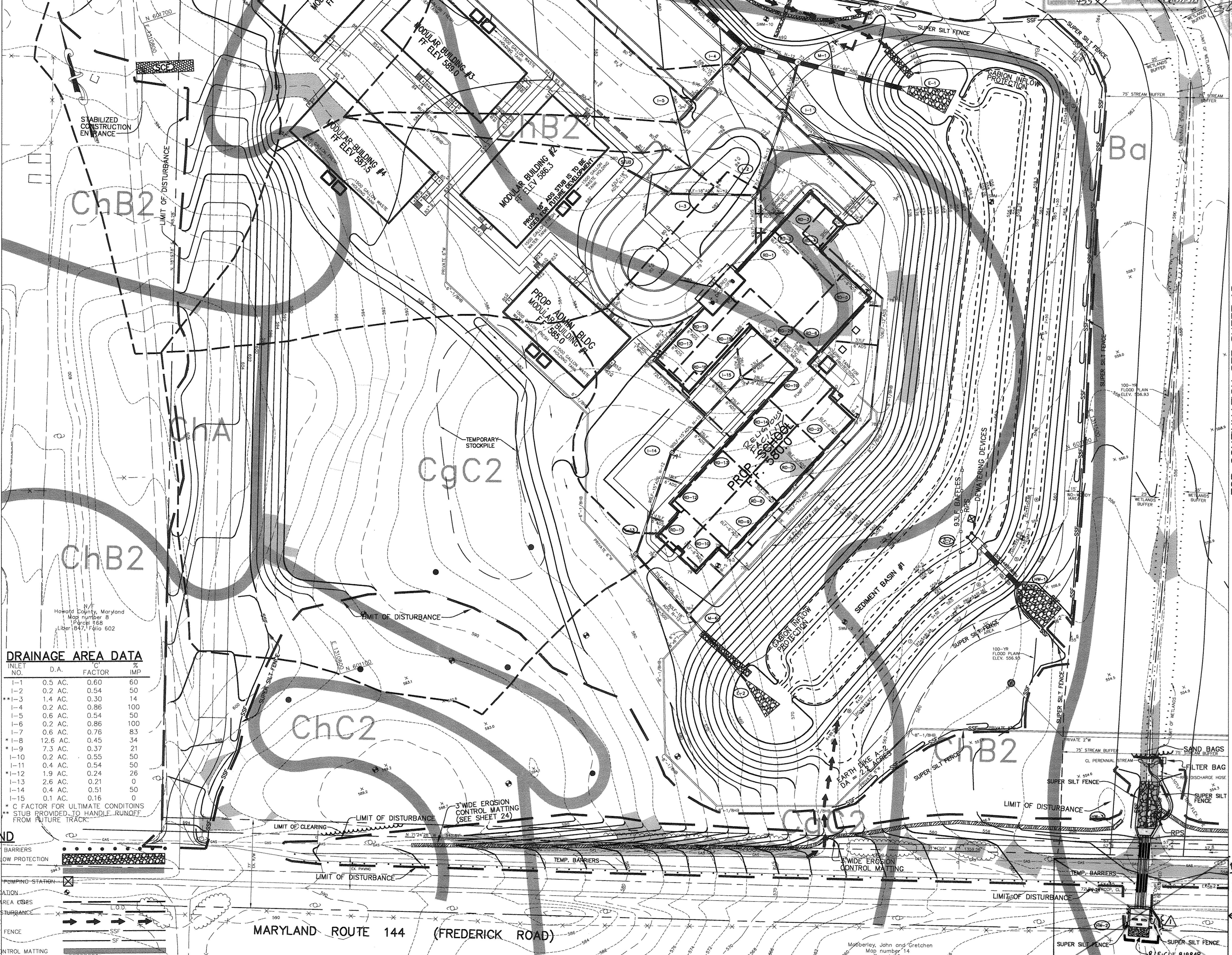
DATE 7.28.03

DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO. 22516/2-0/ENGR
C-200ESC-1

DATE: JULY 28, 2003
SCALE: 1" = 40'
DRAWING NO. 14 OF 51

CHRISTOPHER J. REID #19949
SDP-03-90

FOR CONTINUATION SEE SHEET 15



DRAINAGE AREA DATA

INLET NO.	O.A.	C FACTOR	% IMP
T-1	0.5 AC.	0.60	60
T-2	0.2 AC.	0.54	50
T-3	1.4 AC.	0.30	14
T-4	0.2 AC.	0.86	100
T-5	0.6 AC.	0.54	50
T-6	0.2 AC.	0.86	100
T-7	0.6 AC.	0.76	83
T-8	12.6 AC.	0.45	34
T-9	7.3 AC.	0.37	21
T-10	0.2 AC.	0.55	50
T-11	0.4 AC.	0.54	50
T-12	1.9 AC.	0.24	26
T-13	2.6 AC.	0.21	0
T-14	0.4 AC.	0.51	50
T-15	0.1 AC.	0.16	0

* C FACTOR FOR ULTIMATE CONDITIONS
* STUB PROVIDED TO HANDLE RUNOFF FROM FUTURE TRACT.

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA COBS
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15% - 25% SLOPES
- 25% OR GREATER SLOPES

ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

NOTE: EX. 18" CMP TO BE USED FOR STREAM DIVERSION. ONCE PROP. 54" RCOP IS INSTALLED AND OPERATING BACKFILL WITH FLOWABLE FILL.

REFER TO SHEET 3A



P:\projects\2516\2516-01\Engr\Plans\C-200ESC-1.dwg, Layout1, 07/23/2003 04:46:30 PM, HP1080C_Draftpoc, Arch D - 24 x 36 in. (landscape), 1:1

FOR CONTINUATION SEE SHEET 17 |

TEMPORARY SEDIMENT STORAGE FACILITY

DRAINAGE AREA 3.0 ACRES
 STORAGE REQUIRED 10800 CF
 STORAGE PROVIDED 10800 CF
 CLEANOUT ELEVATION 558.75
 BOTTOM ELEVATION 558.0
 SIDE SLOPES 2:1

S.O.S.T. #1

DRAINAGE AREA 4.0 ACRES
 STOR. REQ'D (WET STOR.) 7200 CF
 STOR. REQ'D (DRY STOR.) 7200 CF
 STOR. PROV. (WET STOR.) 7280 CF @ 562.0
 STOR. PROV. (DRY STOR.) 8660 CF @ 563.5
 WEIR CREST ELEVATION 563.5
 CLEANOUT ELEVATION 561.25
 TOP OF DAM 564.5
 BOTTOM ELEVATION 560.5
 SIDE SLOPES 2:1
 WEIR LENGTH 10'
 BOTTOM DIMENSIONS 47'x94'
 Q_i EX 0.53 CFS
 Q_i PR 0.53 CFS

DRAINAGE AREA DATA

INLET NO.	D.A.	C FACTOR	IMP
1-1	0.5 AC.	0.60	60
1-2	0.2 AC.	0.54	50
1-3	1.4 AC.	0.30	14
1-4	0.2 AC.	0.86	100
1-5	0.5 AC.	0.54	50
1-6	0.2 AC.	0.86	100
1-7	0.6 AC.	0.76	83
1-8	12.6 AC.	0.45	34
1-9	7.3 AC.	0.37	21
1-10	0.2 AC.	0.55	50
1-11	0.4 AC.	0.54	50
1-12	1.9 AC.	0.24	26
1-13	2.6 AC.	0.21	0
1-14	0.4 AC.	0.51	50
1-15	0.1 AC.	0.16	0

* C FACTOR FOR ULTIMATE CONDITIONS
 ** STUB PROVIDED TO HANDLE RUNOFF FROM FUTURE TRACK.

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 49577, Exp. Date 6-8-18

11/8/17 FOR BET ONLY
ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.

BY THE DEVELOPER :
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
 DATE 7.28.03

BY THE ENGINEER :
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
 DATE 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE DATE 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. DATE 8/14/03

HOWARD SOIL CONSERVATION DISTRICT DATE 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER DATE 8/20/03
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR DATE 8/20/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 8/20/03
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE 8/20/03

DATE	NO.	REVISION
11/8/17	4	REVISE OWNER NAME + USE BY BET
11/9/07	3	OMIT WORK SHOWN ON SHEET 3A

DATE	NO.	REVISION
7/8/05	1	CHANGED A-JACKS TO STILLING BASIN
4/29/04	1	RELOCATED PUMP HOUSE

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

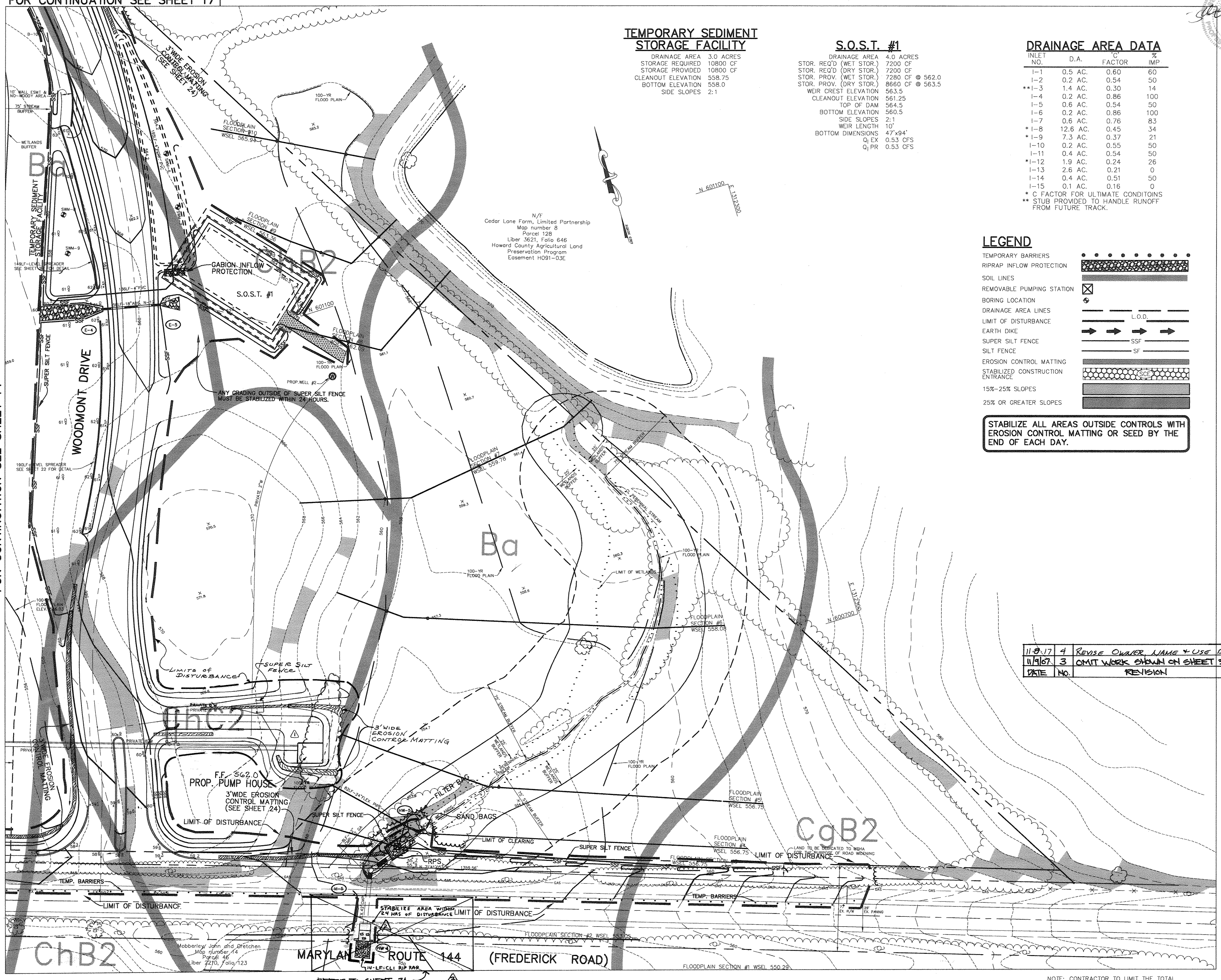
TITLE
GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE 7.28.03
 DESIGNED BY : C.J.R.
 DRAWN BY: DAM
 PROJECT NO : 22516/2-0/ENGR
 C-200ESC-2
 DATE : JULY 28, 2003
 SCALE : 1" = 40'
 DRAWING NO. 15 OF 51

CHRISTOPHER J. REID #19949
 SDP-03-90

FOR CONTINUATION SEE SHEET 14



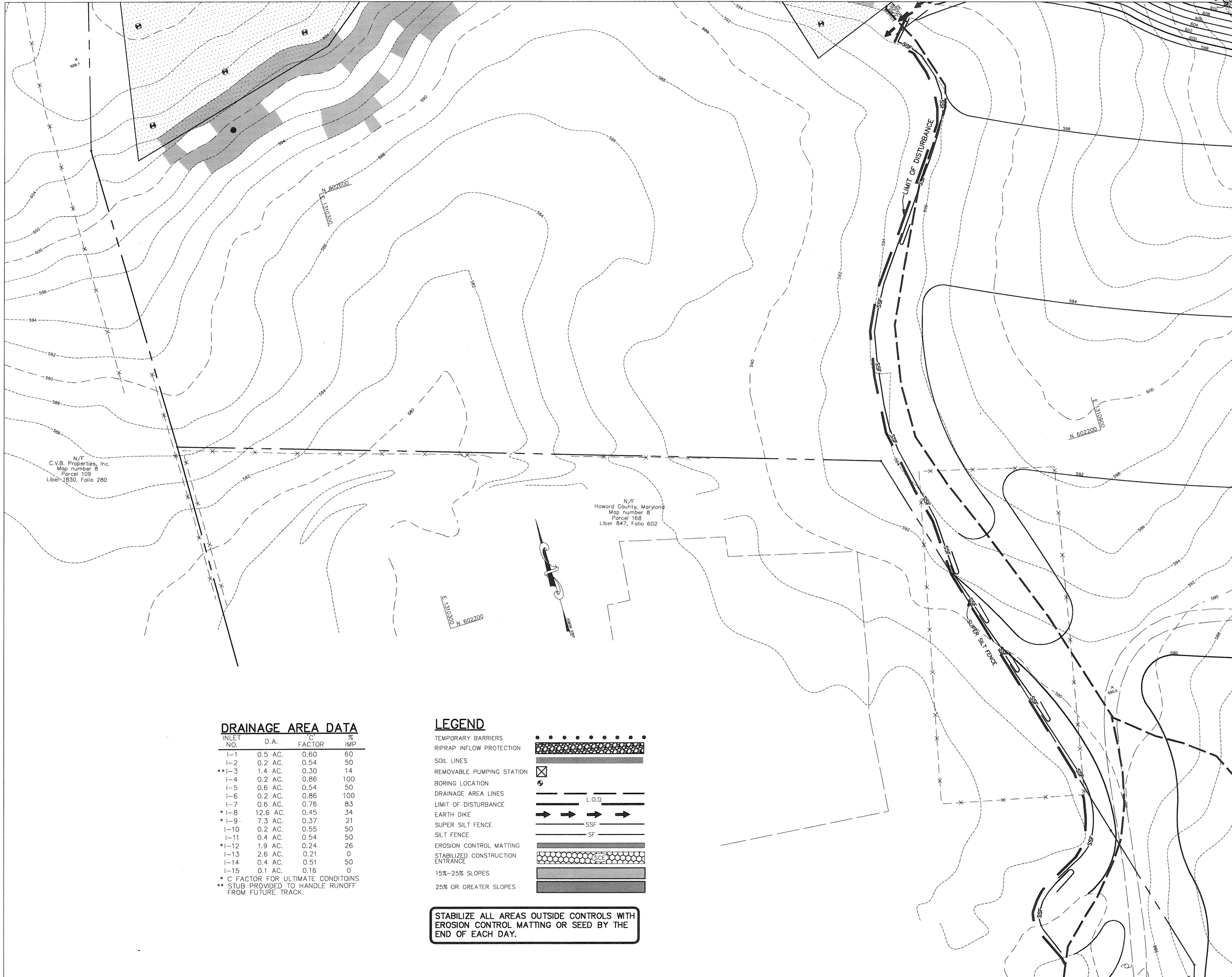
NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

P:\proj\22516\2-0\EngrPlans\C-200ESC-2.dwg, Layout1, 07/23/2003 04:48:06 PM, HP1050C_Draft.pc3, Arch D - 24 x 36 in. (landscape), 1:1

FOR CONTINUATION SEE SHEET 18

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 6.8.18
 11/8/17 FOR BGT REV. ONLY

ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.



N/F
C.V.B. Properties, Inc.
Map number 8
Parcel 109
Liber 1830, Folio 280

N/F
Howard County, Maryland
Map number 8
Parcel 168
Liber 847, Folio 602

DRAINAGE AREA DATA

INLET NO.	D.A.	C FACTOR	% IMP
I-1	0.5 AC.	0.60	60
I-2	0.2 AC.	0.54	50
* I-3	1.4 AC.	0.30	14
I-4	0.2 AC.	0.86	100
I-5	0.6 AC.	0.54	50
I-6	0.2 AC.	0.86	100
I-7	0.6 AC.	0.76	83
* I-8	12.6 AC.	0.45	34
* I-9	7.3 AC.	0.37	21
I-10	0.2 AC.	0.55	50
I-11	0.4 AC.	0.54	50
* I-12	1.9 AC.	0.24	26
I-13	2.6 AC.	0.21	0
I-14	0.4 AC.	0.51	50
I-15	0.1 AC.	0.16	0

* C FACTOR FOR ULTIMATE CONDITIONS
 ** STUB PROVIDED TO HANDLE RUNOFF FROM FUTURE TRACK.

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

FOR CONTINUATION SEE SHEET 14

FOR CONTINUATION SEE SHEET 17

BY THE DEVELOPER :
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature]
 DEVELOPER DATE 7.28.03

BY THE ENGINEER :
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.
 [Signature]
 ENGINEER DATE 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.
 [Signature]
 NATURAL RESOURCES CONSERVATION SERVICE DATE 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature]
 HOWARD SOIL CONSERVATION DISTRICT DATE 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature]
 DATE 8/22/03

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR
 [Signature]
 DATE 8/22/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION [Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT [Signature]
 DATE 8/23/03

11-8-17 / REVISE OWNER NAME + USE BY BGT
 DATE NO. REVISION
 OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY
 AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
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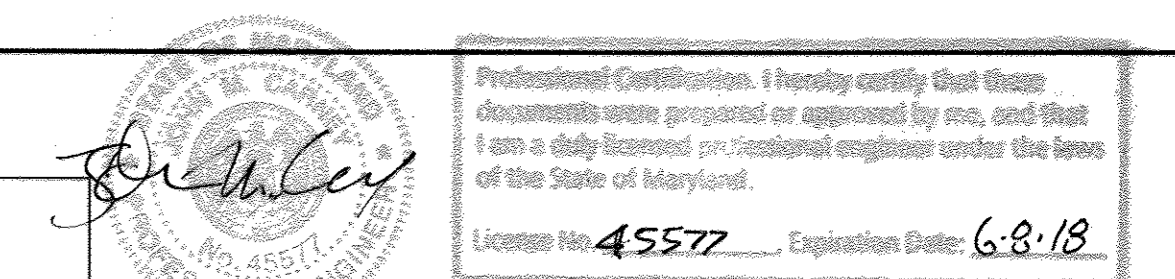
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 DESIGNED BY : C.J.R.
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 PROJECT NO : 22516/2-0/ENGR
 C-200ESC-3
 DATE : JULY 28, 2003
 SCALE : 1" = 40'
 DRAWING NO. 16 OF 51



CHRISTOPHER J. REID #19949
 SDP-03-90

P:\project\2516\2-0\Engr\Plans\C-200ESC-3.dwg, Layout1, 07/23/2003 04:46:46 PM, HP1050C_Draft.pc3, Arch D - 24 x 36 in. (landscape), 1:1

FOR CONTINUATION SEE SHEET 19



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577, Expiration Date: 6-8-18

11/8/17 FOR BET REV ONLY

ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.



DRAINAGE AREA DATA

INLET NO.	D.A.	C FACTOR	% IMP
I-1	0.5 AC.	0.60	60
I-2	0.2 AC.	0.54	50
I-3	1.4 AC.	0.30	14
I-4	0.2 AC.	0.86	100
I-5	0.6 AC.	0.54	50
I-6	0.2 AC.	0.86	100
I-7	0.6 AC.	0.76	83
I-8	12.6 AC.	0.45	34
I-9	7.3 AC.	0.37	21
I-10	0.2 AC.	0.55	50
I-11	0.4 AC.	0.54	50
I-12	1.9 AC.	0.24	26
I-13	2.6 AC.	0.21	0
I-14	0.4 AC.	0.51	50
I-15	0.1 AC.	0.16	0

* C FACTOR FOR ULTIMATE CONDITIONS
** STUB PROVIDED TO HANDLE RUNOFF FROM FUTURE TRACK.

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

N/F Cedar Lane Farm, Limited Partnership
Map number 8 Parcel 128
Liber 3621, Folio 646
Howard County Agricultural Land Preservation Program
Easement H091-03E

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 14

FOR CONTINUATION SEE SHEET 15

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *J. Reid* DATE: 7.28.03

BY THE ENGINEER :
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ENGINEER: *Chris J Reid* DATE: 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL. *GP-03-99

NATURAL RESOURCES CONSERVATION SERVICE DATE: 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. *GP-03-99

HOWARD SOIL CONSERVATION DISTRICT DATE: 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER DATE: 8-22-03
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
DIRECTOR DATE: 8/24/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION M&J DATE: 8/24/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/24/03

11-8-17 / REVISE OWNER NAME + USE BY BET

DATE NO. REVISION

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
GRADING AND SEDIMENT CONTROL PLAN

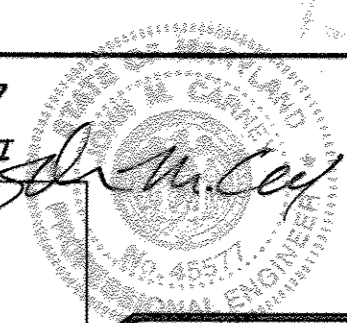
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T 410.997.8900
F 410.997.9282

DESIGNED BY : C.J.R.
DRAWN BY: DAM
PROJECT NO : 22516/2-0/ENGR
C-200ESC-4
DATE : JULY 28, 2003
SCALE : 1" = 40'
DRAWING NO. 17 OF 51

CHRISTOPHER J. REID #19949
SDP-03-90

P:\project\22516\2-0\Engr\Plans\C-200ESC-4.dwg, Layout1, 07/25/2003 09:20:53 AM, HP1050C_Draft.pcs, Arch D - 24 x 36 in. (landscape), 1:1

11/8/03
FOR BEI
REV.
ONLY



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577, Expiration Date: 6-8-18

DRAINAGE AREA DATA

INLET NO.	D.A.	C FACTOR	% IMP
I-1	0.5 AC.	0.60	60
I-2	0.2 AC.	0.54	50
**I-3	1.4 AC.	0.30	14
I-4	0.2 AC.	0.86	100
I-5	0.6 AC.	0.54	50
I-6	0.2 AC.	0.86	100
I-7	0.6 AC.	0.76	83
*I-8	12.6 AC.	0.45	34
*I-9	7.3 AC.	0.37	21
I-10	0.2 AC.	0.55	50
I-11	0.4 AC.	0.54	50
*I-12	1.9 AC.	0.24	26
I-13	2.6 AC.	0.21	0
I-14	0.4 AC.	0.51	50
I-15	0.1 AC.	0.16	0

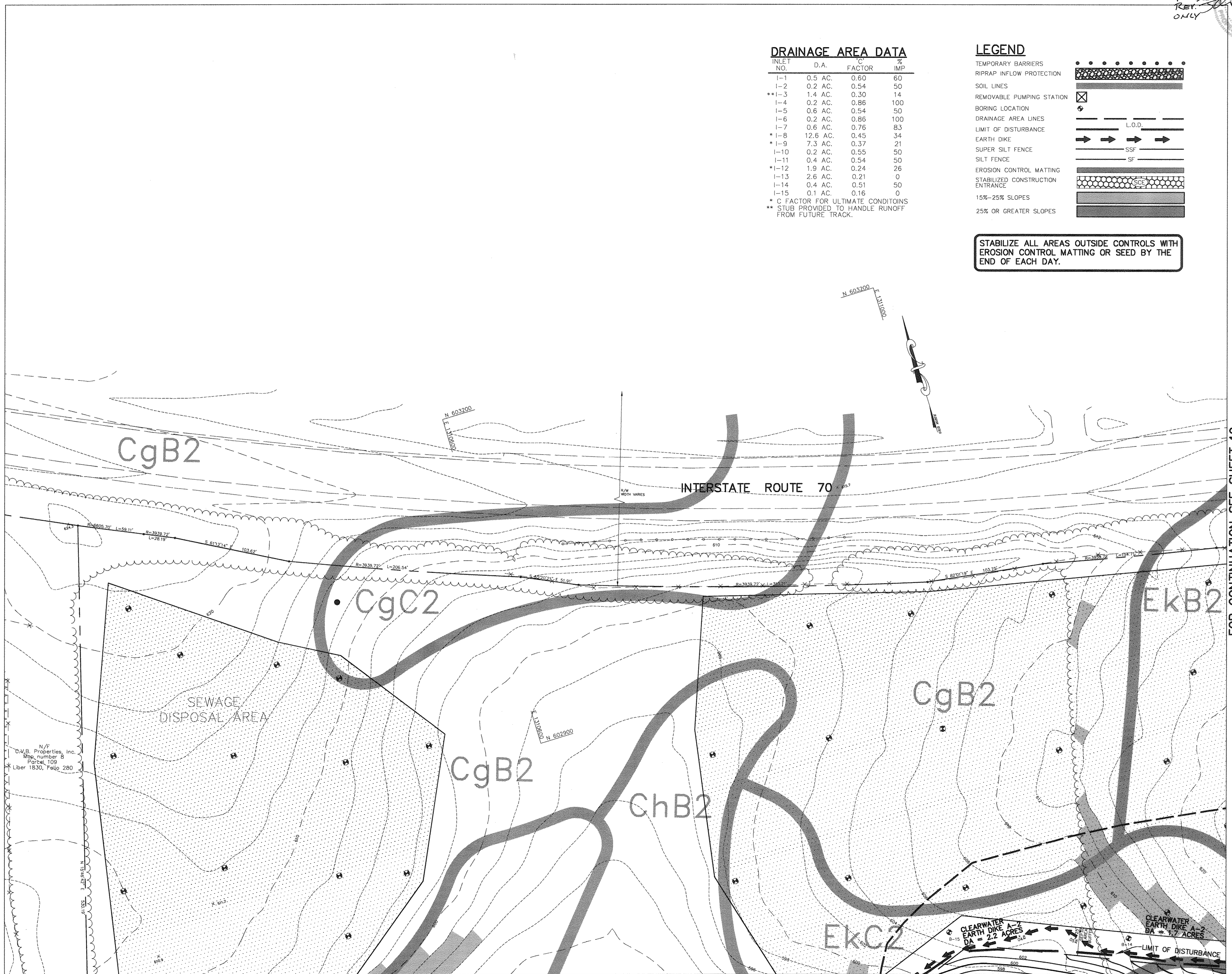
* C FACTOR FOR ULTIMATE CONDITIONS
** STUB PROVIDED TO HANDLE RUNOFF FROM FUTURE TRACK.

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.



FOR CONTINUATION SEE SHEET 19

FOR CONTINUATION SEE SHEET 16

NOTE: CONTRACTOR TO LIMIT THE TOTAL UNSTABILIZED AREA TO 20 ACRES AT ANY TIME.

BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: *[Signature]* 7.28.03
DATE

BY THE ENGINEER :
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER: *[Signature]* 7.28.03
DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE: *[Signature]* 8/10/03
DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT: *[Signature]* 8/10/03
DATE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER: *[Signature]* 8/27/03
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
DIRECTOR: *[Signature]* 8/20/03
DATE

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* 8/10/03
DATE

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* 8/27/03
DATE

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-723-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

7.28.03
DATE
DESIGNED BY : C.J.R.
DRAWN BY: DAM
PROJECT NO : 22516/2-0/ENGR
C-200ESC-5
DATE : JULY 28, 2003
SCALE : 1" = 40'
DRAWING NO. 18 OF 51



CHRISTOPHER J. REID #19949
SDP-03-90

FOR BEI
REV.
ONLY

11/6/17

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577, Expiration Date 6-9-18

LEGEND

- TEMPORARY BARRIERS
- RIPRAP INFLOW PROTECTION
- SOIL LINES
- REMOVABLE PUMPING STATION
- BORING LOCATION
- DRAINAGE AREA LINES
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SUPER SILT FENCE
- SILT FENCE
- EROSION CONTROL MATTING
- STABILIZED CONSTRUCTION ENTRANCE
- 15%-25% SLOPES
- 25% OR GREATER SLOPES

ABSOLUTELY NO GRADING SHALL BE ALLOWED WITHIN WETLANDS BUFFERS, STREAM BUFFERS, FLOODPLAIN, STEEP SLOPES OR FORESTED AREAS.

BY THE DEVELOPER :
I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER *[Signature]* DATE 7-28-03

BY THE ENGINEER :
I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER *[Signature]* DATE 7-28-03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE *[Signature]* DATE 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT *[Signature]* DATE 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER *[Signature]* DATE 8/14/03
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
DIRECTOR *[Signature]* DATE 8/14/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION *[Signature]* DATE 8/14/03

CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* DATE 8/27/03

11-B-17 1 REVISE OWNER, NAME + USE BY BEI
DATE NO. REVISION

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
**GRADING AND
SEDIMENT CONTROL PLAN**

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

7-28-03
DATE
DESIGNED BY : C.J.R.
DRAWN BY: DAM
PROJECT NO : 22516/2-0/ENGR
C-200ESC-6
DATE : JULY 28, 2003
SCALE : 1" = 40'
DRAWING NO. 19 OF 51

CHRISTOPHER J. REID #19949
SDP-03-90

DRAINAGE AREA DATA

INLET NO.	D.A.	C FACTOR	% IMP
I-1	0.5 AC.	0.60	60
I-2	0.2 AC.	0.54	50
**I-3	1.4 AC.	0.30	14
I-4	0.2 AC.	0.86	100
I-5	0.6 AC.	0.54	50
I-6	0.2 AC.	0.86	100
I-7	0.6 AC.	0.76	83
*I-8	12.6 AC.	0.45	34
*I-9	7.3 AC.	0.37	21
I-10	0.2 AC.	0.55	50
I-11	0.4 AC.	0.54	50
*I-12	1.9 AC.	0.24	26
I-13	2.6 AC.	0.21	0
I-14	0.4 AC.	0.51	50
I-15	0.1 AC.	0.16	0

* C FACTOR FOR ULTIMATE CONDITIONS
** STUB PROVIDED TO HANDLE RUNOFF FROM FUTURE TRACK.

FOR CONTINUATION SEE SHEET 18



STABILIZE ALL AREAS OUTSIDE CONTROLS WITH EROSION CONTROL MATTING OR SEED BY THE END OF EACH DAY.

N/A
Cedar Lane Farm, Limited Partnership
Map number 8
Parcel 128
Liber 3521, Folio 646
Howard County Agricultural Land
Preservation Program
Easement #H09T-03E

FOR CONTINUATION SEE SHEET 17

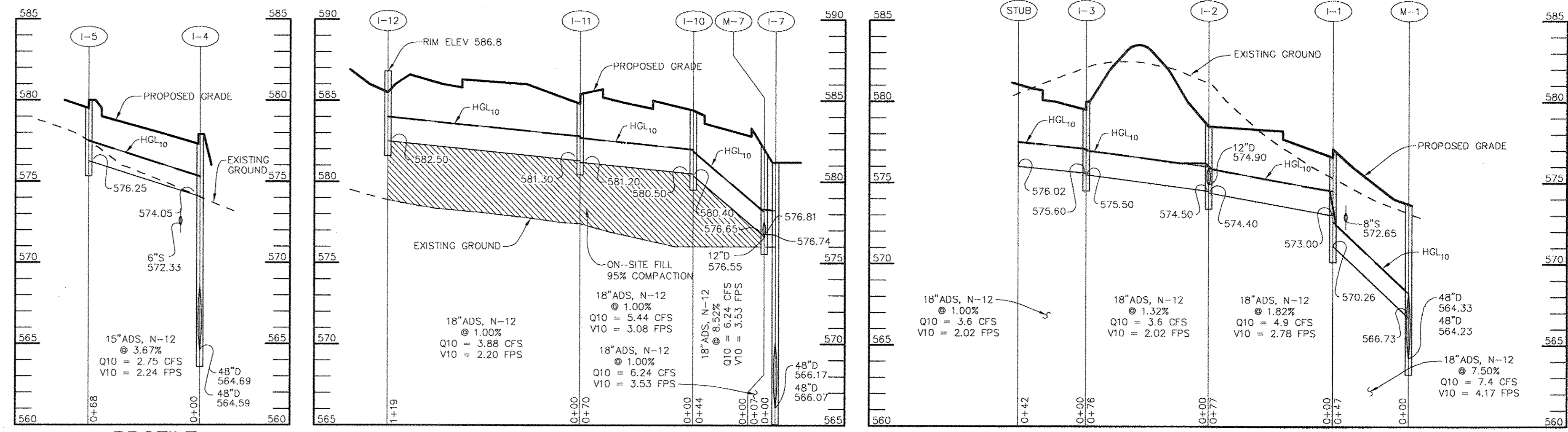
P:\project\22516-2-0\Engr\Plans\C-200ESC-6.dwg, Layout1, 07/23/2003 04:50:59 PM, HP1050C_Draft.pc3, Arch D - 24 x 36 in. (landscape), 1:1

STRUCTURE SCHEDULE

STRUCTURE	TYPE	INSIDE DIMS	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	A-5	2.5' WIDE	N 601455.66 E 1311318.20	573.00(18")	570.26(18")	577.1	HOCO STD. DETAIL SD-4.40
I-2	A-5	2.5' WIDE	N 601393.89 E 1311273.70	574.90(12")	574.40(18")	578.6	HOCO STD. DETAIL SD-4.40
I-3	A-5	2.5' WIDE	N 601421.10 E 1311201.08	575.60(18")	575.50(18")	580.0	HOCO STD. DETAIL SD-4.40
I-4	A-5	6.0' WIDE	N 601523.88 E 1311299.39	564.69(48")	564.59(48")	577.9	HOCO STD. DETAIL SD-4.40 GRANITE BOTTOM
I-5	A-5	2.5' WIDE	N 601489.72 E 1311240.59	-	576.25(15")	580.1	HOCO STD. DETAIL SD-4.40
I-6	A-5	6.0' WIDE	N 601607.54 E 1311250.80	565.27(48")	565.17(48")	580.4	HOCO STD. DETAIL SD-4.40
I-7	A-5	2.5' WIDE	N 601745.34 E 1311166.83	566.17(48")	566.07(48")	581.2	HOCO STD. DETAIL SD-4.40 GRANITE BOTTOM
I-8	D	6' X 4'	N 601848.22 E 1311107.07	568.27(30")	566.77(48")	581.5	HOCO STD. DETAIL SD-4.39 4 OPENINGS (20LFX1LF)
I-9	D	4' X 2.5'	N 601806.24 E 1311660.11	-	571.52(30")	575.5	HOCO STD. DETAIL SD-4.39 4 OPENINGS (6LFX1LF)
I-10	A-5	2.5' WIDE	N 601720.04 E 1311122.44	580.50(18")	580.40(18")	584.4	HOCO STD. DETAIL SD-4.40
I-11	A-5	2.5' WIDE	N 601684.55 E 1311062.10	581.30(18")	581.20(18")	585.4	HOCO STD. DETAIL SD-4.40
I-12	A-5	4' X 4'	N 601787.40 E 1311002.50	-	582.50(18")	585.5	HOCO STD. DETAIL SD-4.39 4 OPENINGS (8LFX1LF)
I-13	D	2.5' X 2.5'	N 601124.50 E 1311080.78	572.47(15")	572.22(18")	578.0	HOCO STD. DETAIL SD-4.39
I-14	S	2.6' X 2.6'	N 601200.32 E 1311137.32	573.52(15")	573.42(15")	579.1	HOCO STD. DETAIL SD-4.22
I-15	S	2.6' X 2.6'	N 601245.52 E 1311215.14	(3) 575.17(6")	574.42(15")	578.9	HOCO STD. DETAIL SD-4.22
M-1	6"-0" DIA.		N 601496.94 E 1311344.08	564.33(48")	564.23(48")	573.7	HOCO STD. DETAIL G-5.03
M-2	5"-0" DIA.		N 601949.32 E 1311262.60	569.30(30")	569.20(30")	590.2	HOCO STD. DETAIL G-5.13
M-3	5"-0" DIA.		N 601880.75 E 1311485.28	570.57(30")	570.47(30")	589.4	HOCO STD. DETAIL G-5.13
M-4	4"-0" DIA.		N 601059.10 E 1311109.97	565.05(18")	564.95(18")	576.7	HOCO STD. DETAIL G-5.11
M-5	5"-0" DIA.		N 600609.88 E 1311816.22	549.68(48")	549.58(48")	556.4	HOCO STD. DETAIL G-5.13
M-7	4"-0" DIA.		N 601741.84 E 1311160.38	576.65(18")	576.55(18")	582.0	HOCO STD. DETAIL G-5.11
E-1	48" ADS END SECTION		N 601445.13 E 1311430.25	-	557.00(48")	-	ADS, N-12
E-2	18" ADS END SECTION		N 600986.63 E 1311142.24	-	557.00(18")	-	ADS, N-12
E-3	12" ADS END SECTION		N 601723.83 E 1311208.06	-	574.00(12")	-	ADS, N-12
E-4	18" ADS END SECTION		N 601159.40 E 1311728.59	-	561.00(18")	-	ADS, N-12
E-5	18" ADS END SECTION		N 601146.63 E 1311784.39	-	562.00(18")	-	ADS, N-12
HW-1	TYPE "A" HEADWALL		N 600997.83 E 1311396.93	-	562.22(48")	-	HOCO STD. DETAIL SD-5.11
HW-2	TYPE "A" HEADWALL		N 600689 E 1311415	549.30(54")	-	-	HOCO STD. DETAIL SD-5.11
HW-3	TYPE "A" HEADWALL		N 600757 E 1311440	549.66(54")	-	-	HOCO STD. DETAIL SD-5.11
HW-4	TYPE "A" HEADWALL		N 600558 E 1311794	-	549.14(42")	-	HOCO STD. DETAIL SD-5.11
HW-5	TYPE "E" HEADWALL (FACE & CORNER OF WALL)		N 600614 E 1311838	-	550.60(48")	-	HOCO STD. DETAIL SD-5.31
S-1	MODIFIED STRUCTURE		N 601044.50 E 1311372.58	556.50(8")	556.50(8")	565.00	SEE SHEET 25
SMH-1	4"-0" DIA.		N 601727.83 E 1311165.72	574.94(6")	571.21(8")	583.5	HOCO STD. DETAIL G-5.11 & S-1.32
SMH-2	4"-0" DIA.		N 601375.23 E 1311376.47	573.43(6")	573.26(8")	579.1	HOCO STD. DETAIL G-5.11
PS-1	-		N 601854.51 E 1311277.38	570.30(8")	-	584.1	BY OTHERS

PIPE SCHEDULE

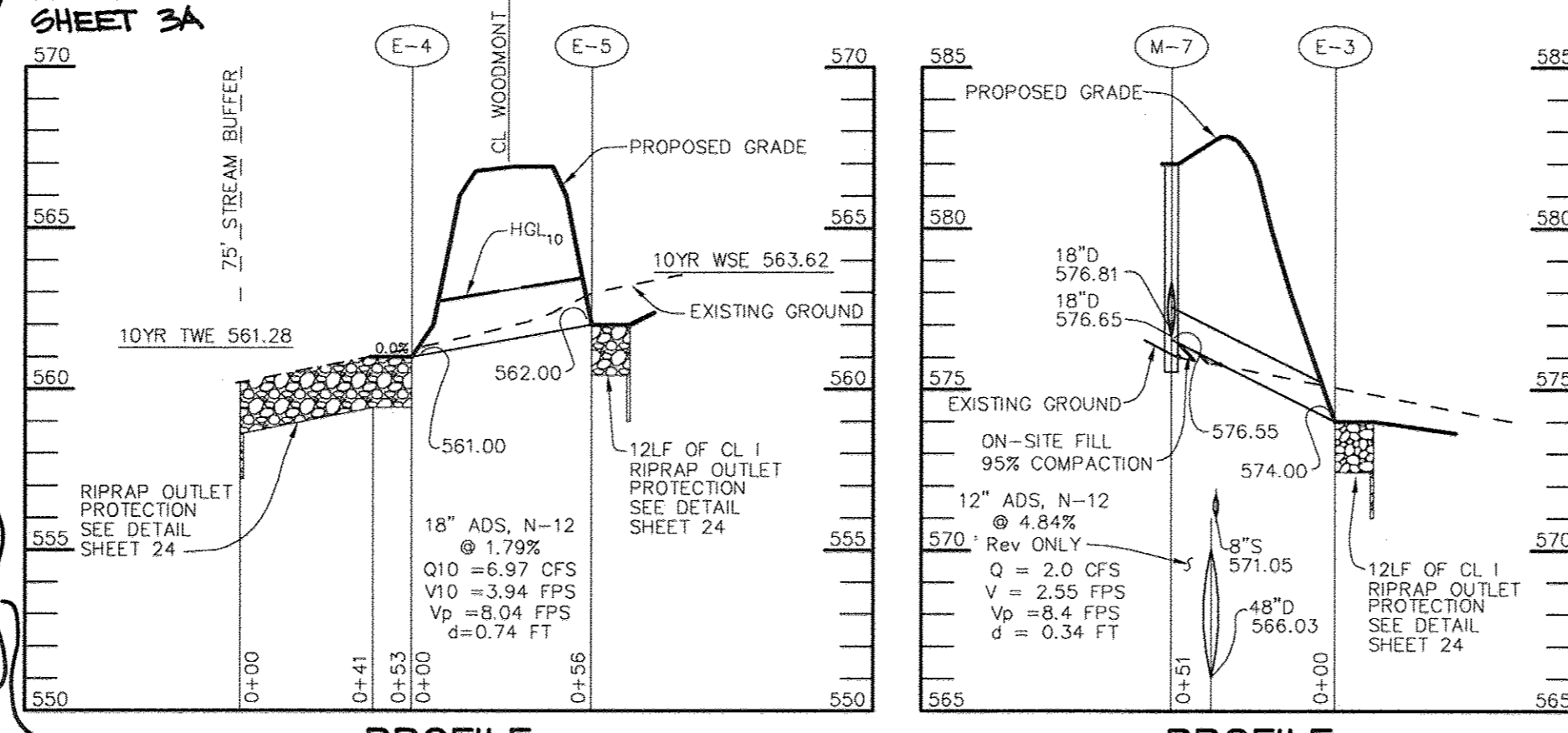
PIPE LENGTH	SIZE	TYPE
156	4"	PVC
490	4"	PERF. PVC
375	6"	ADS, N-12
555	12"	ADS, N-12
253	15"	ADS, N-12
689	18"	ADS, N-12
598	30"	ADS, N-12
8	42"	CMP 12 GA
24	42"	RCCP CL V
529	48"	ADS, N-12
53	48"	ASTM
72	54"	RCCP CL V



PROFILE
SCALE: HOR.-1"=50' VERT.-1"=5'
PROFILE
SCALE: HOR.-1"=50' VERT.-1"=5'
PROFILE
SCALE: HOR.-1"=50' VERT.-1"=5'

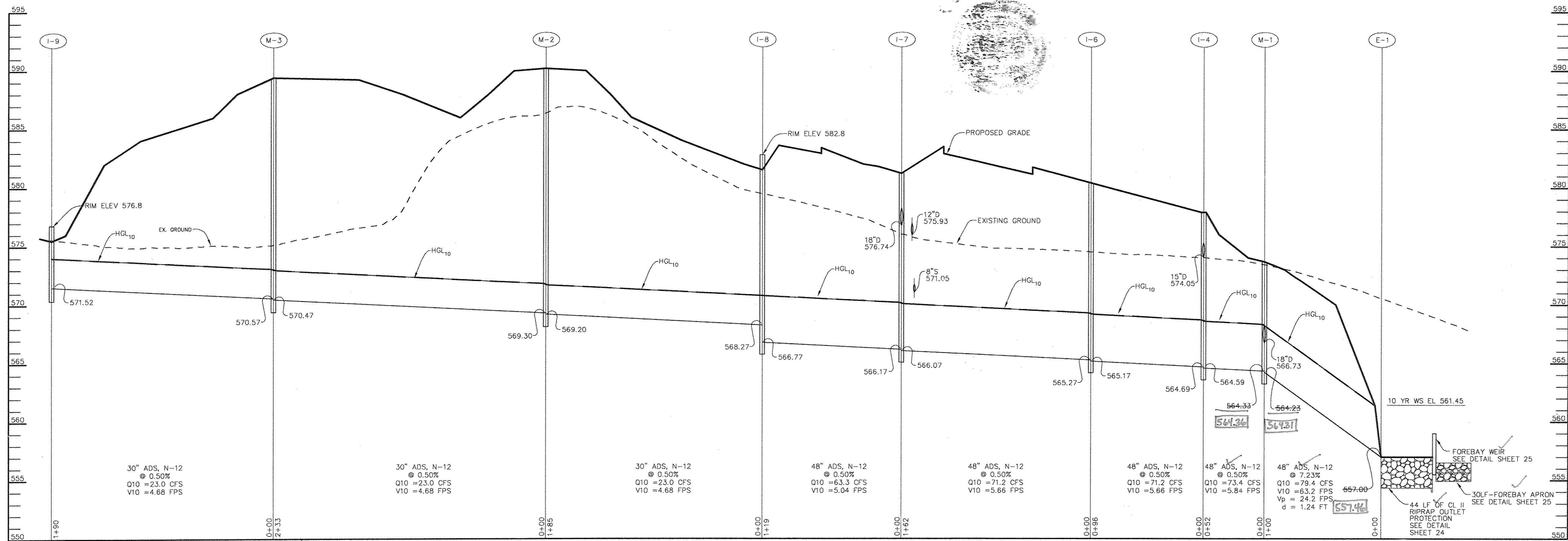
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45377 Expiration Date: 6-6-18

AS-BUILT STATEMENT:
I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS.
FOR BEI REV. ONLY
DATE: 7/9/2008
JOHN W. CLASADDE



PROFILE
SCALE: HOR.-1"=50' VERT.-1"=5'
PROFILE
SCALE: HOR.-1"=50' VERT.-1"=5'

NOTES:
FOR END SECTIONS AND HEADWALLS THE LOCATION IS CENTER OF THROAT OPENING AT FACE OF STRUCTURE.
LOCATION OF 'D' AND 'S' INLETS AND MANHOLES IS AT CENTER OF TOP COVER; FOR 'A' INLETS LOCATION IS GIVEN FOR CENTER OF THROAT OPENING AT FACE OF CURB;
* ELEVATION IS AT THROAT OPENING



PROFILE
SCALE: HOR.-1"=50' VERT.-1"=5'

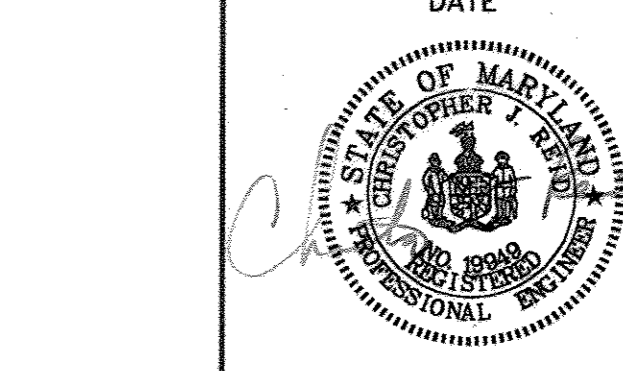
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER: HOWARD COUNTY HEALTH DEPARTMENT
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
DIRECTOR: [Signature] DATE: 8/26/08
CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature] DATE: 8/26/08
CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] DATE: 8/26/08
11/9/07 2 OMIT M-5, HW-2, HW-3, HW-4 & HW-5
7/8/05 REVISED STRUCTURE SCHEDULE
DATE NO. REVISION

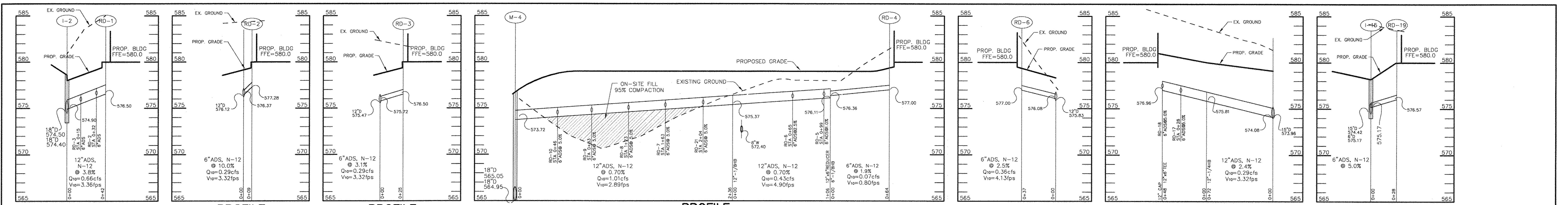
OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

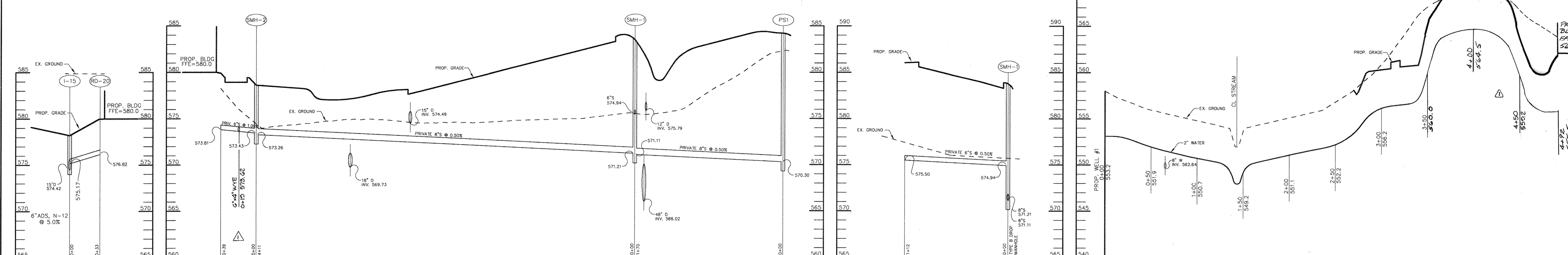
TITLE
PROFILES
Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO: 22516/2-0/ENGR PROFILE1
DATE: JULY 28, 2003
SCALE: AS SHOWN
DRAWING NO. 20 OF 51
CHRISTOPHER J. REID #19949

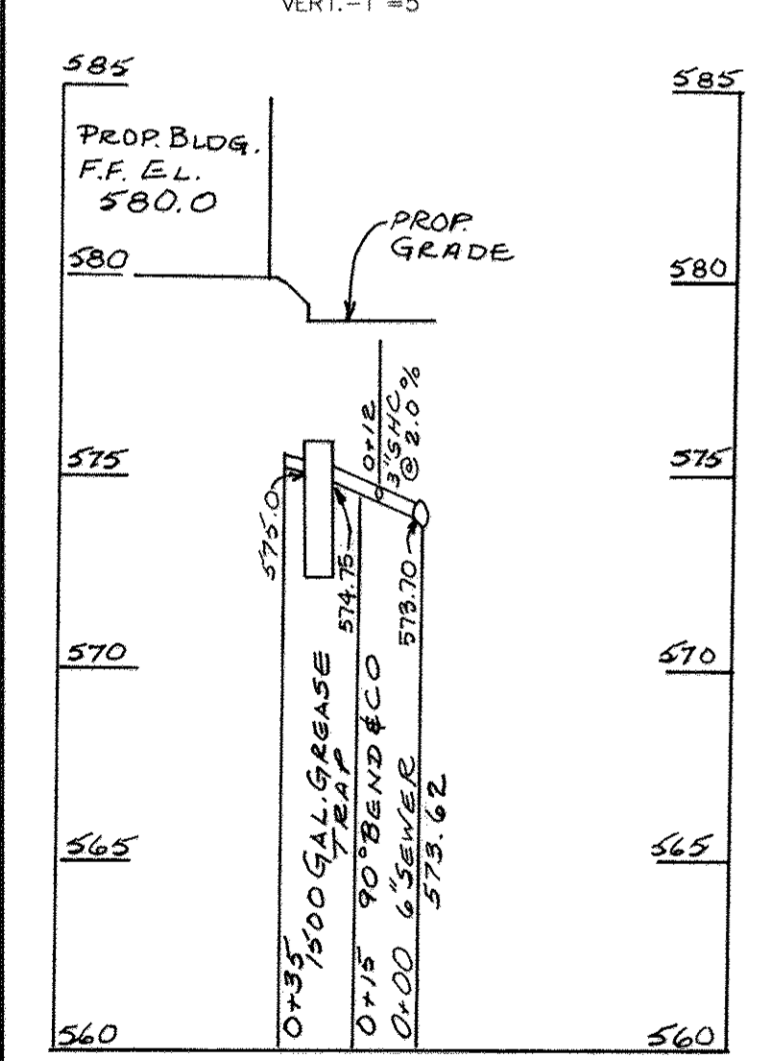




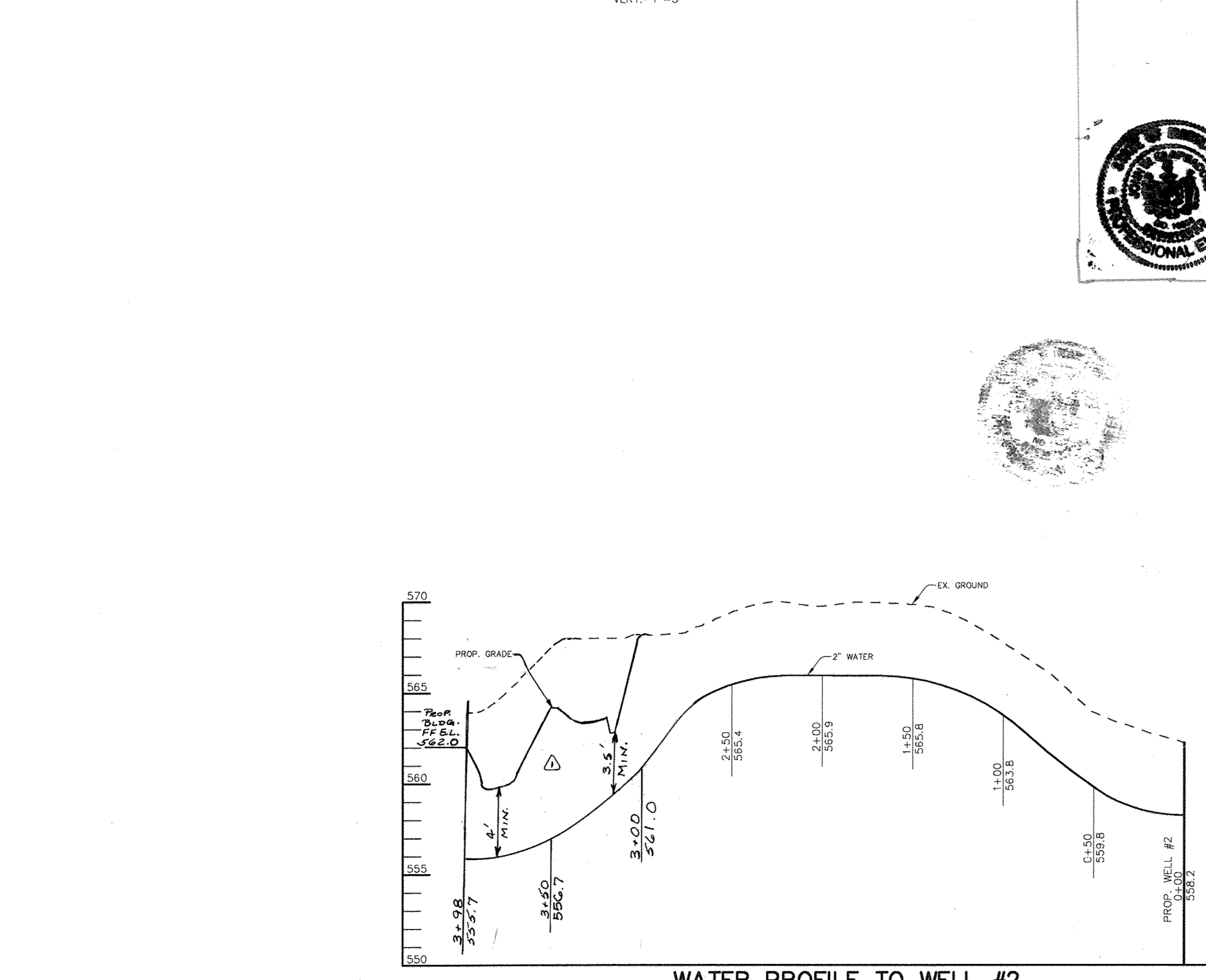
PROFILE SCALE: HOR. - 1"=50' VERT. - 1"=5'



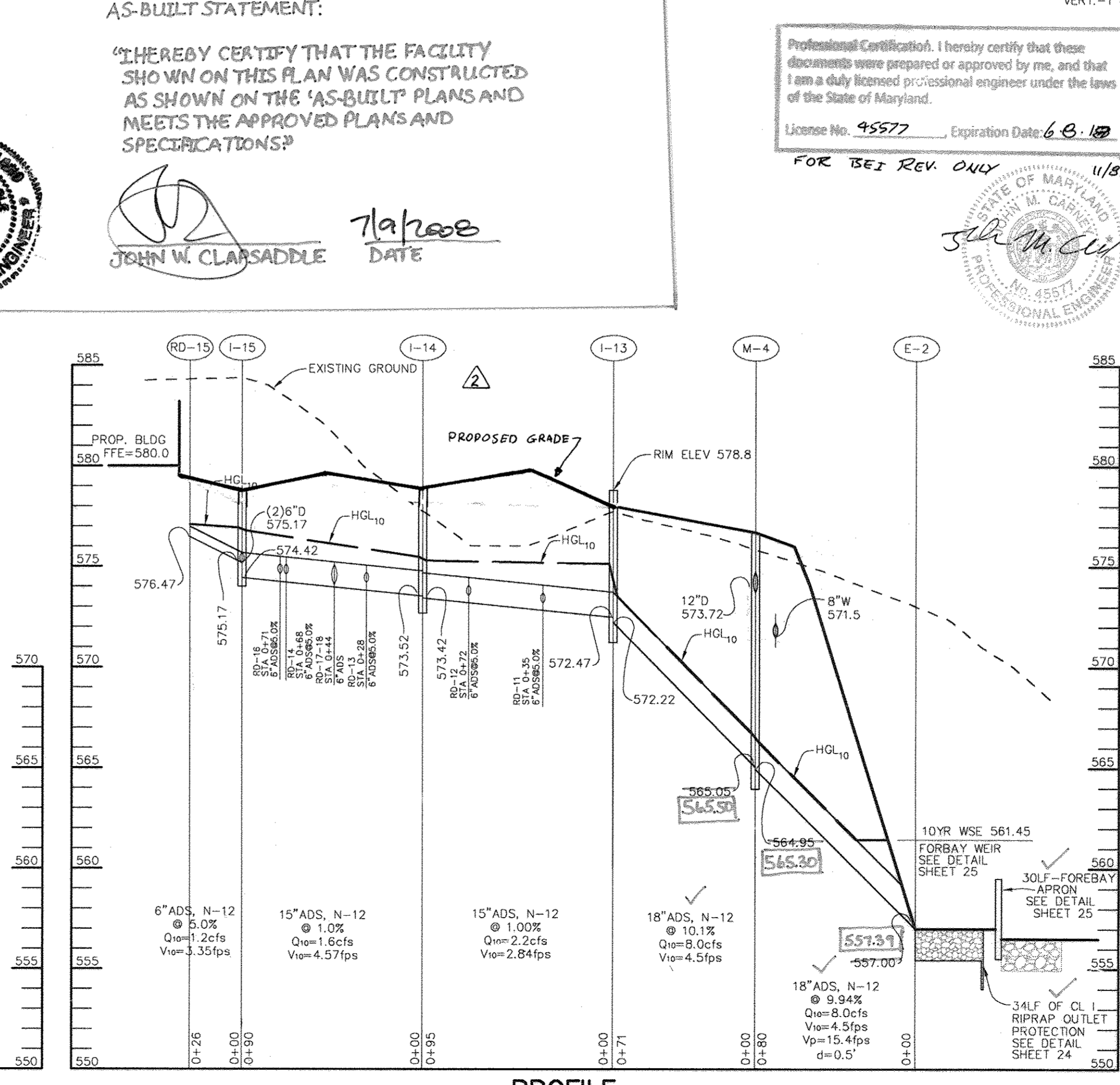
SEWER PROFILE SCALE: HOR. - 1"=50' VERT. - 1"=5'



SEWER PROFILE SCALE: HOR. - 1"=50' VERT. - 1"=5'



WATER PROFILE TO WELL #2 SCALE: HOR. - 1"=50' VERT. - 1"=5'



PROFILE SCALE: HOR. - 1"=50' VERT. - 1"=5'

AS-BUILT STATEMENT:

"I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."

John W. Claasaddle
 JOHN W. CLAASADDLE DATE 7/14/05

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 6-8-10
 FOR BEI REV ONLY 11/8/17

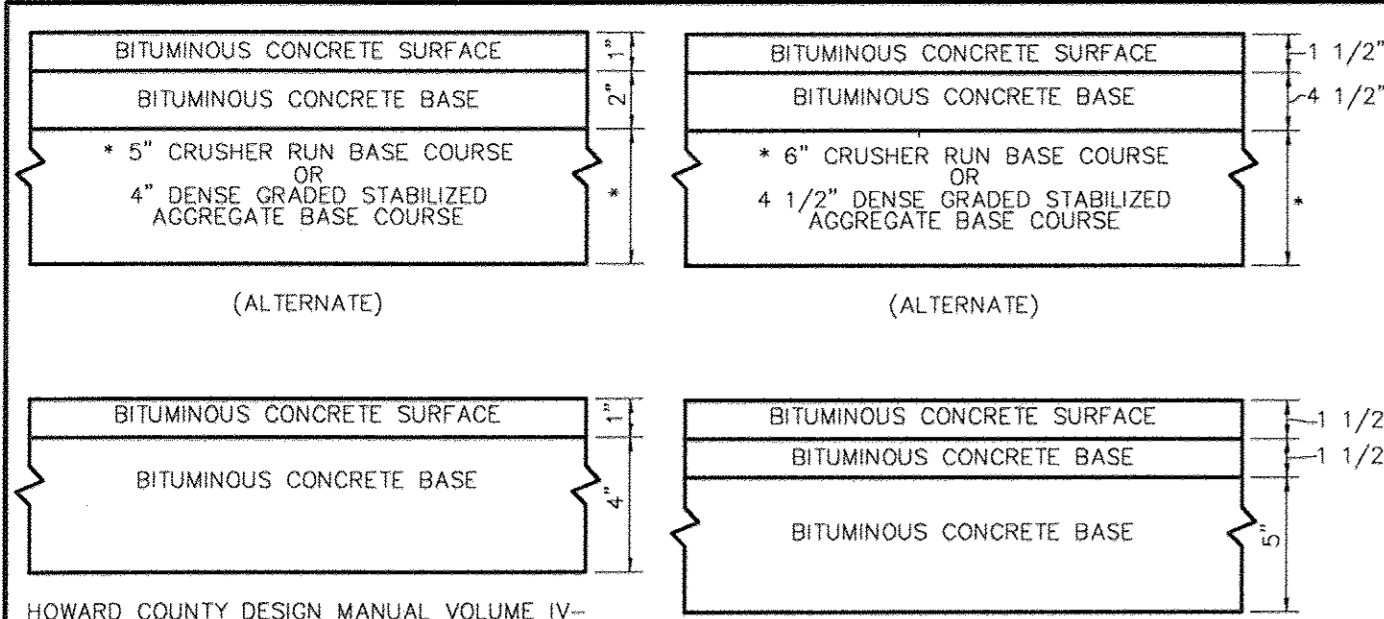
Professional Seal: JOHN W. CLAASADDLE, PROFESSIONAL ENGINEER, STATE OF MARYLAND, LICENSE NO. 45577, EXPIRES 6-8-10.

11-8-17	3	REVISE OWNER NAME + USE BY BEI
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS		
<i>Debra Hamilton</i>	8-22-03	DATE
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>Mark A. Cogen</i>	2/26/02	DATE
DIRECTOR		
<i>Debra Hamilton</i>	5/23/05	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION M&Z		
<i>Debra Hamilton</i>	5/23/05	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT M&P		

7/8/05	Δ	REVISED GRADING ON STORM DRAIN PROFILE
4-29-04	Δ	REVISE PROFILES TO PUMPHOUSE S.E.L.
DATE NO.		REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220		
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY		
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE PROFILES		
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		
DESIGNED BY: C.J.R.		
DRAWN BY: DAM		
PROJECT NO: 22516/2-0/ENGR PROFILE2		
DATE: JULY 28, 2003		
SCALE: AS SHOWN		
DRAWING NO. 21 OF 51		

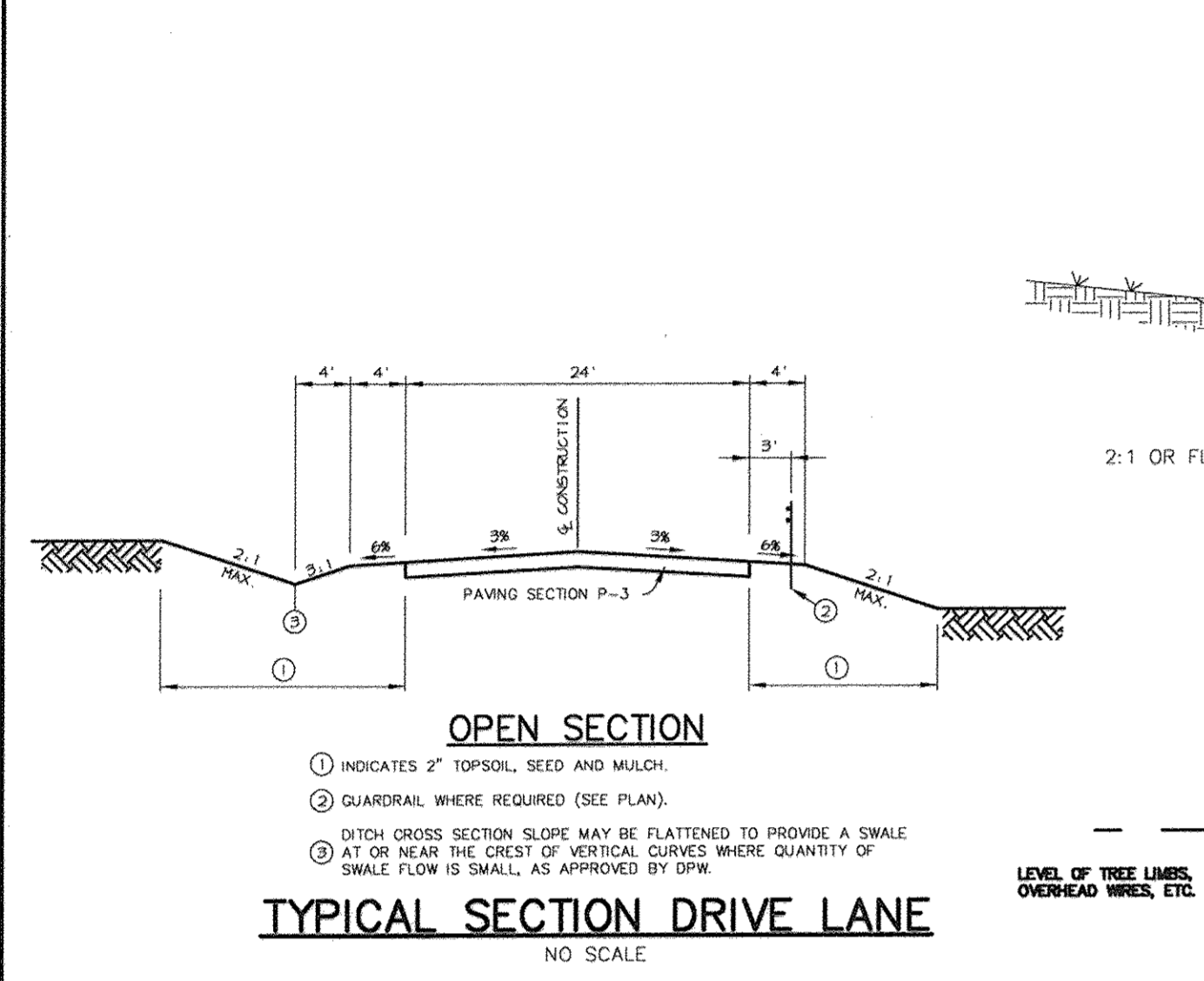
7.28.03 DATE

Professional Seal: CHRISTOPHER J. REID, PROFESSIONAL ENGINEER, STATE OF MARYLAND, LICENSE NO. 19949, EXPIRES 7-28-03.

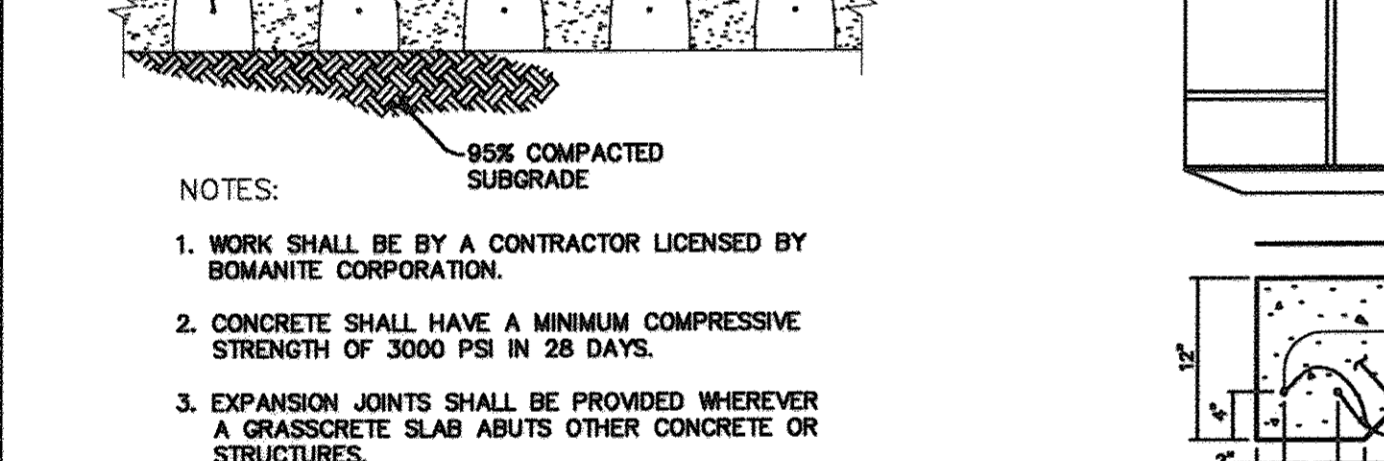


P-1 PAVING
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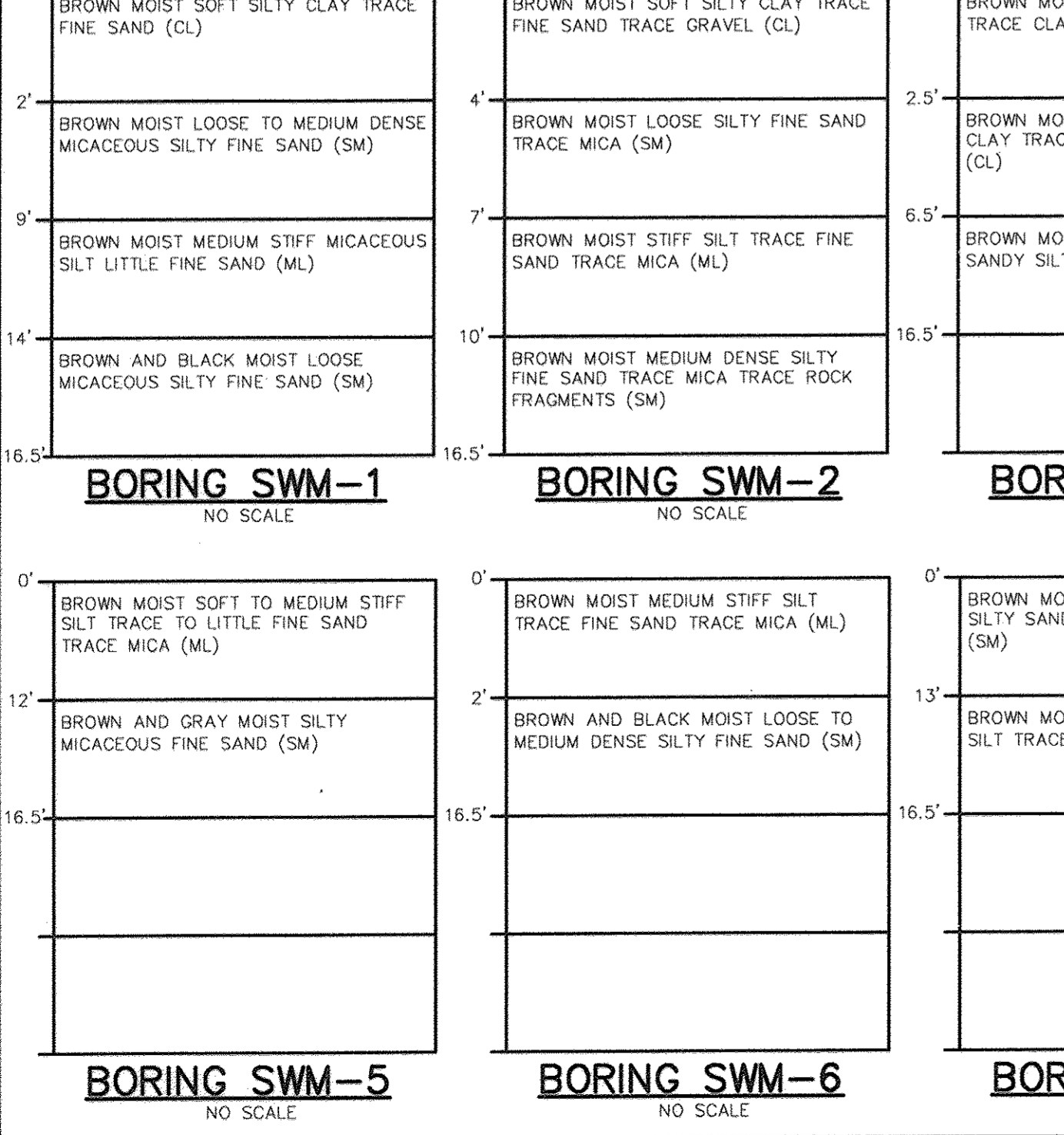
P-3 PAVING
NO SCALE



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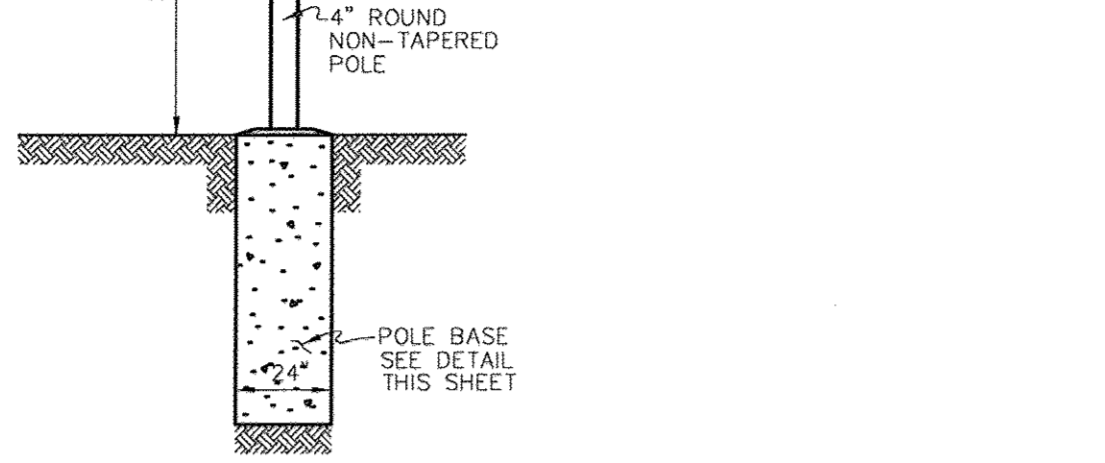


GRASSCRETE POROUS PAVEMENT FOR FIRELANE ACCESS
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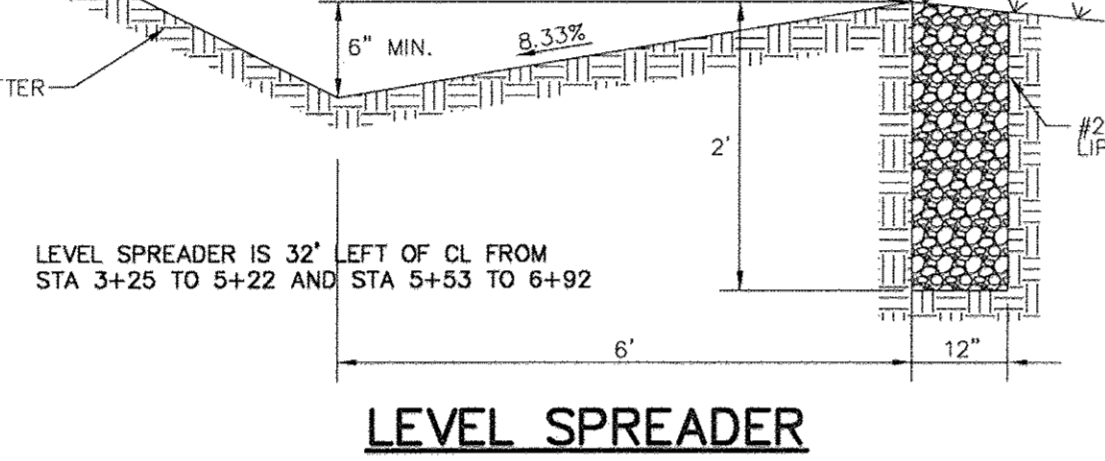


LIGHTING FIXTURE SCHEDULE

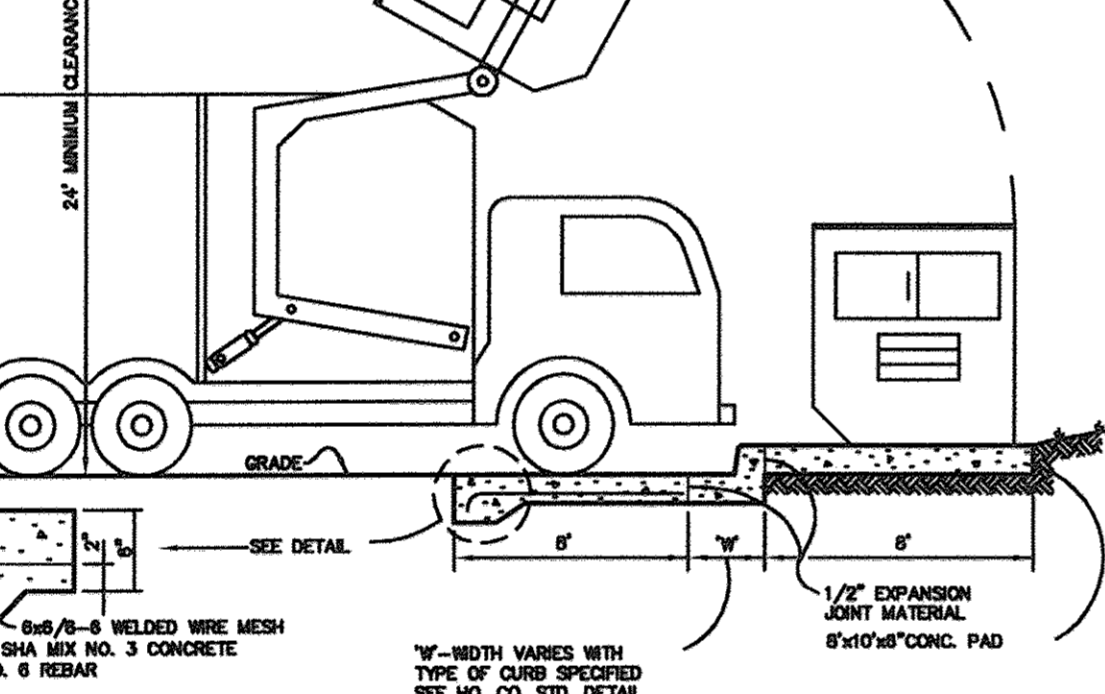
LAMPS	MOUNTING	DESCRIPTION	VOLTAGE
175W METAL HALIDE MULTITAP BALLAST WITH MEDIUM BASE, CLEAR ED-17 LAMPS	20" ROUND STRAIGHT ALUMINUM POLE	TEMPERED GLASS LENS, TYPE 5 HORIZONTAL CUT OFF REFLECTOR (BLACK FINISH) WITH MATCHING POLE	120/208/240/277



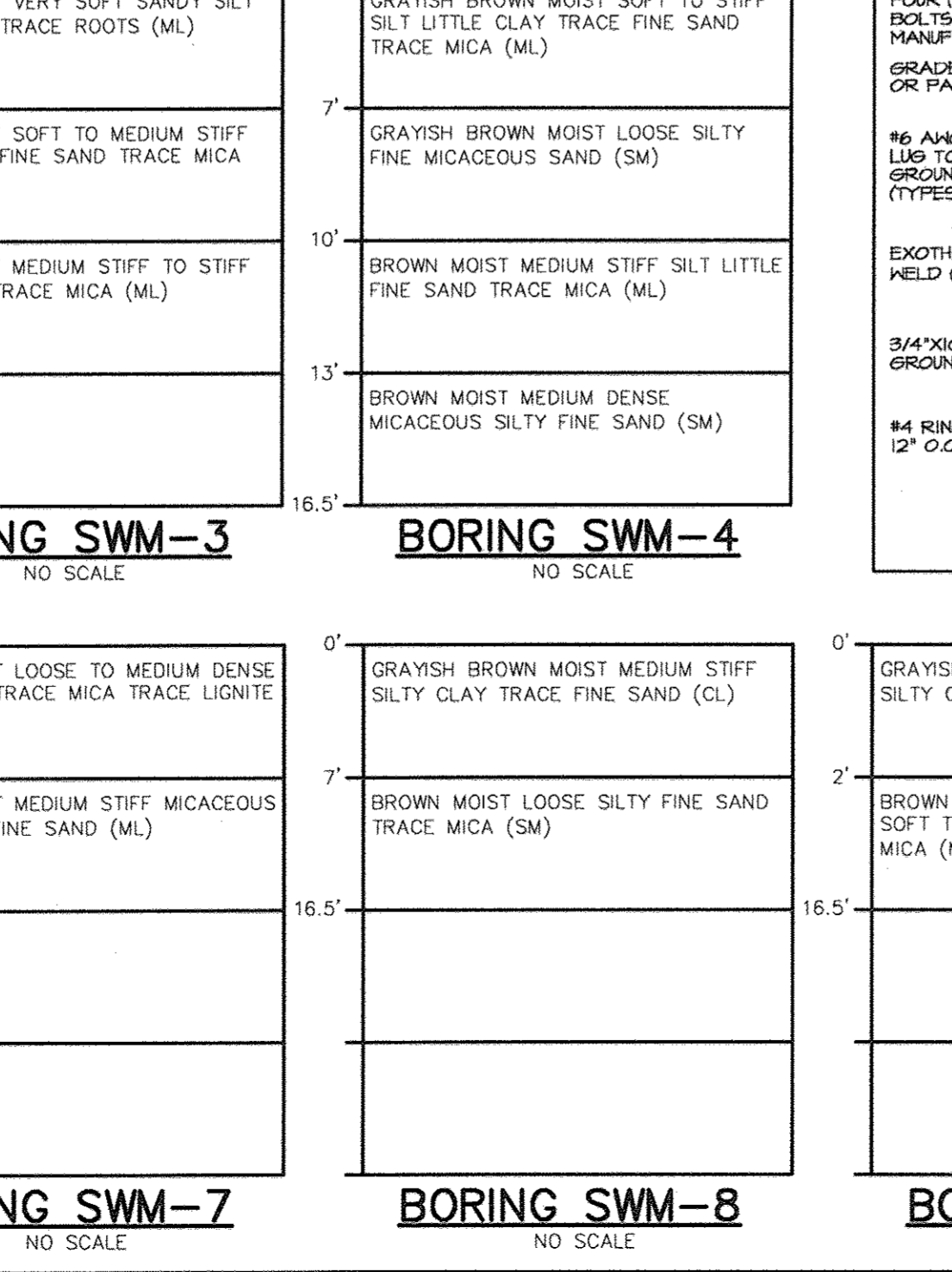
LIGHT POLE DETAIL
NO SCALE



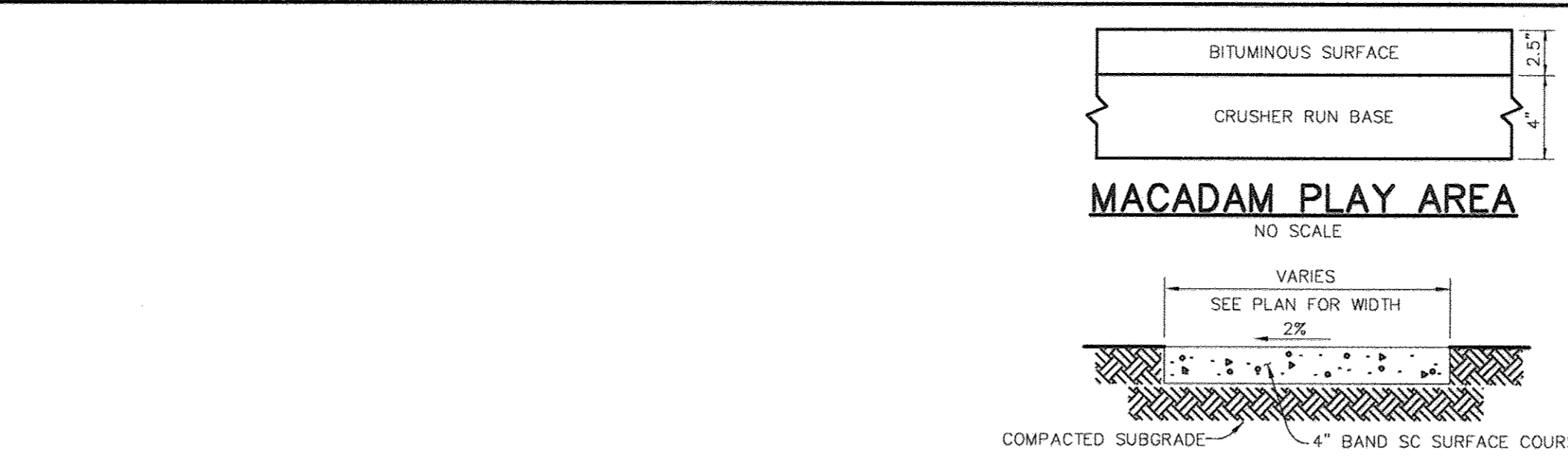
LEVEL SPREADER
NO SCALE



DUMPSTER PAD
NO SCALE

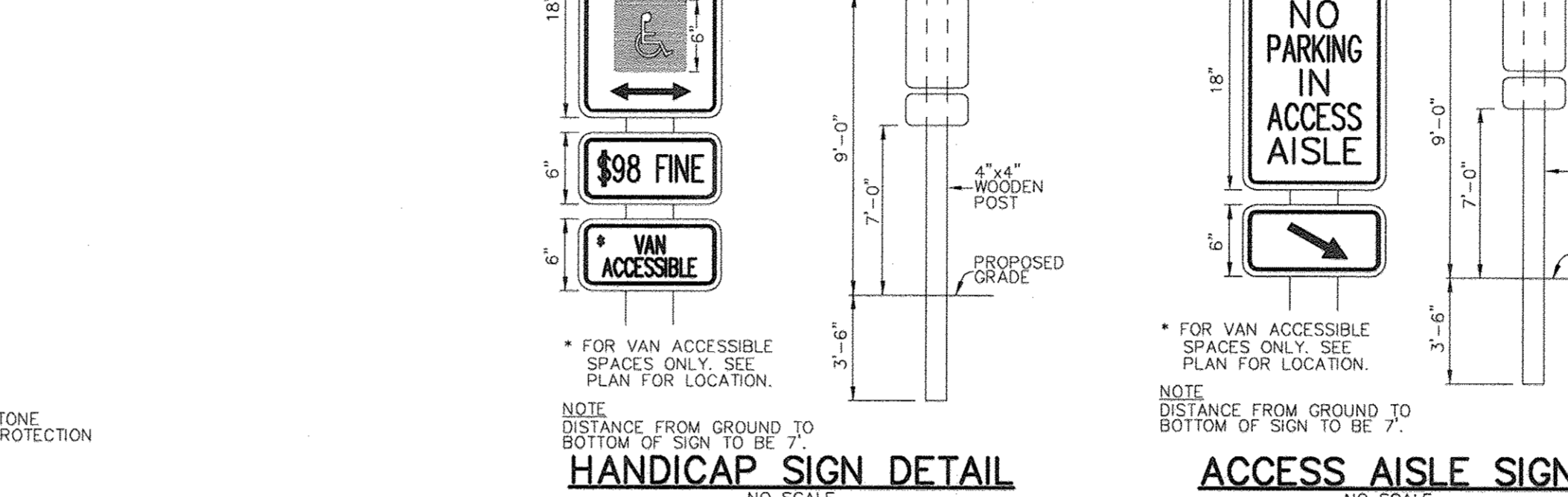


POLE BASE DETAIL
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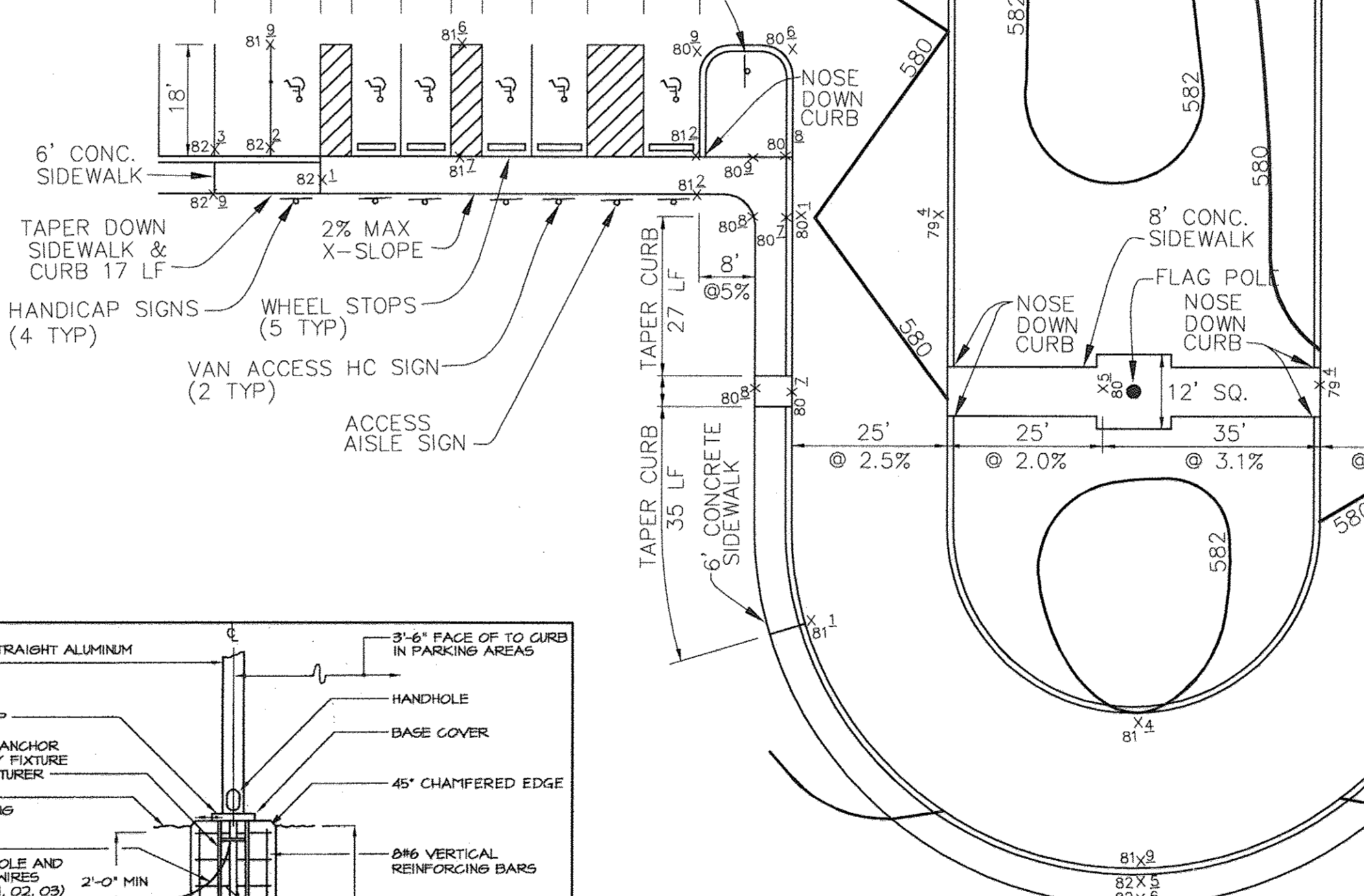
MACADAM PLAY AREA
NO SCALE

ASPHALT WALK DETAIL
NO SCALE

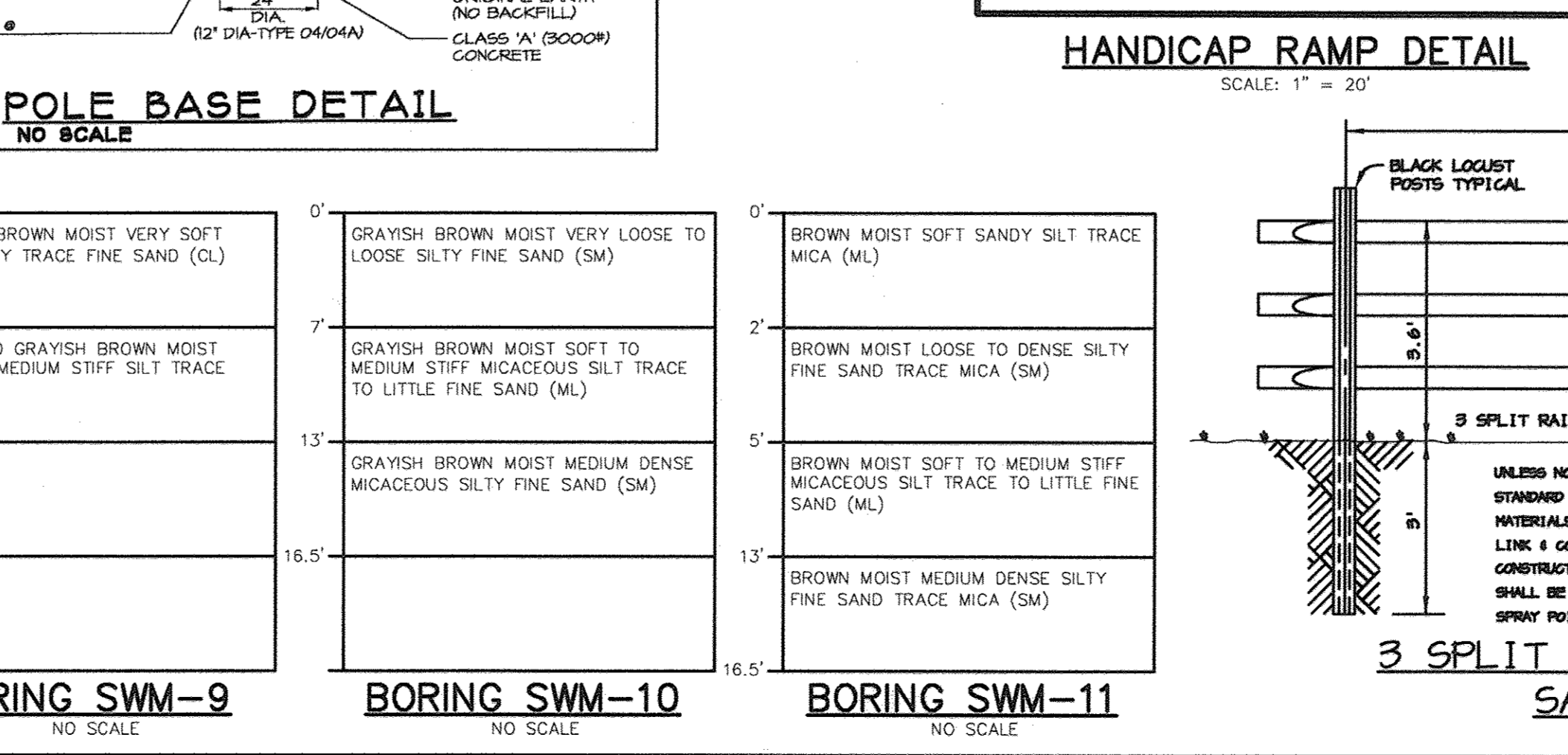


HANDICAP SIGN DETAIL
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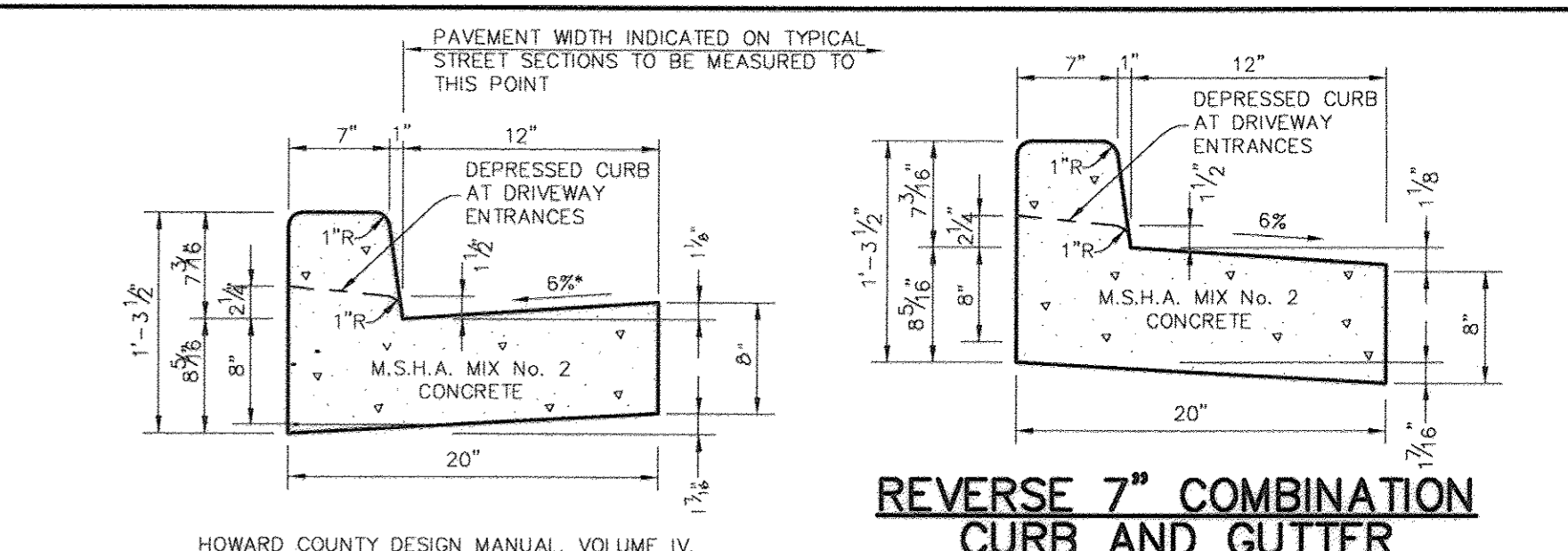
ACCESS AISLE SIGN
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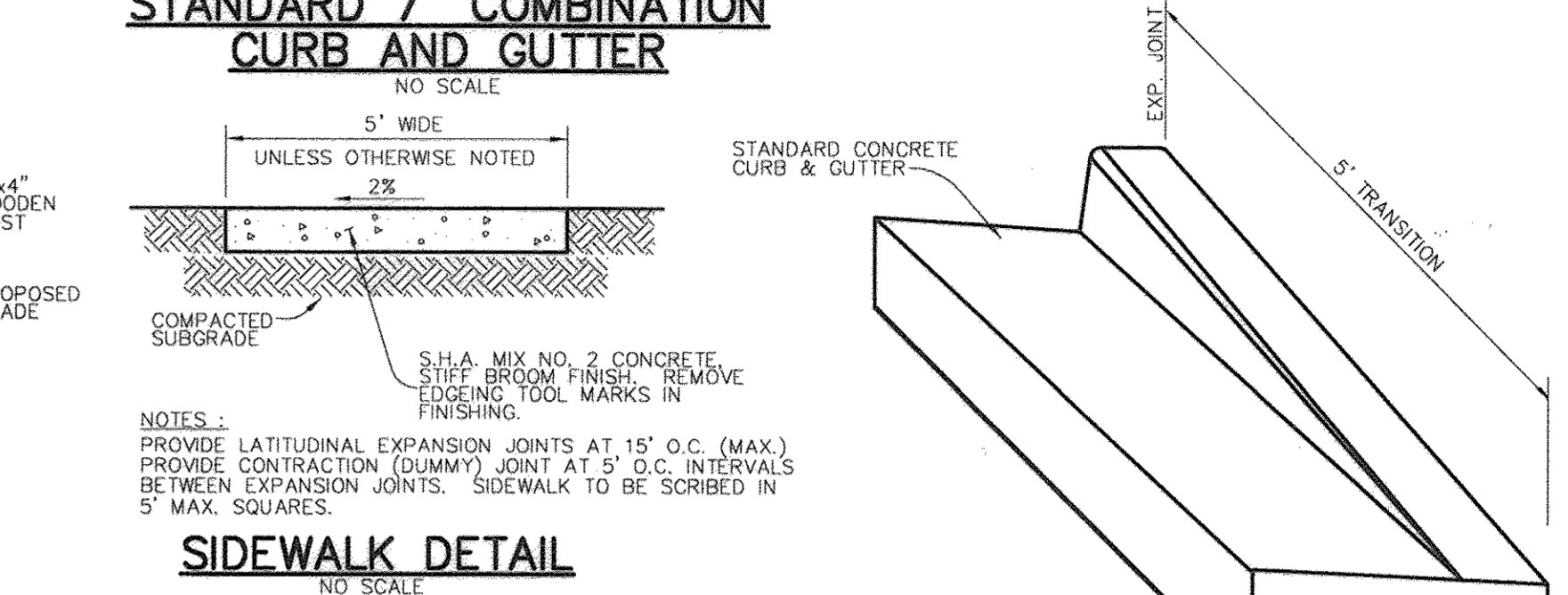
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NO SCALE



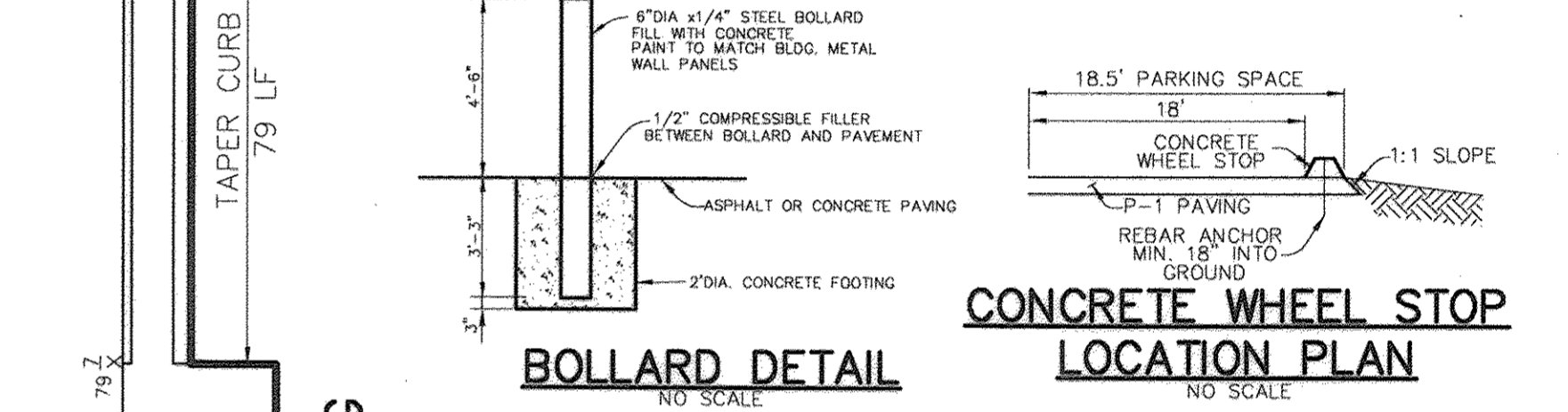
HANDICAP RAMP DETAIL
SCALE: 1" = 2'



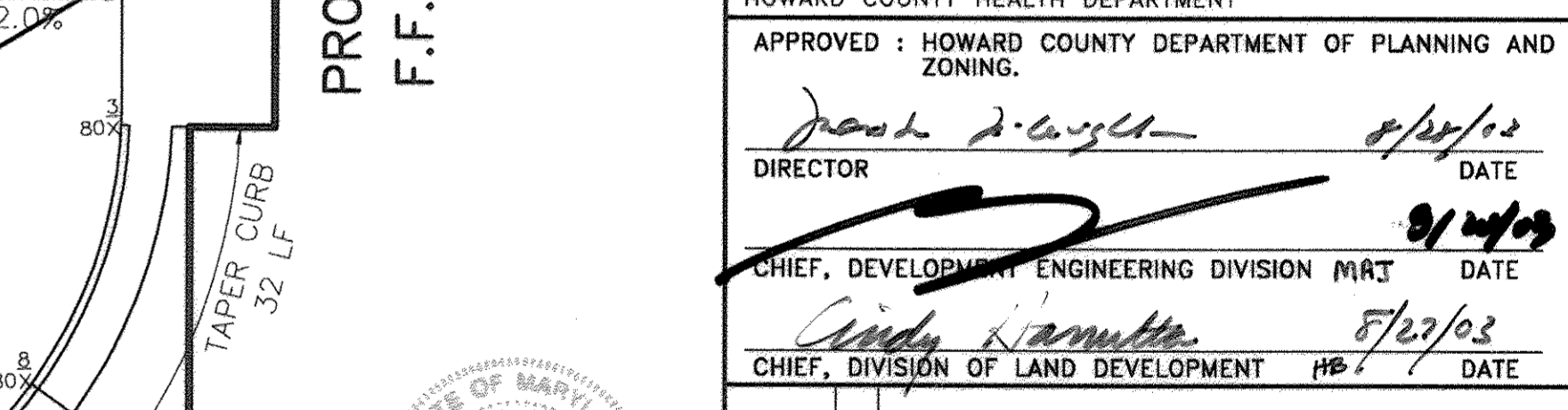
REVERSE 7" COMBINATION CURB AND GUTTER
NO SCALE



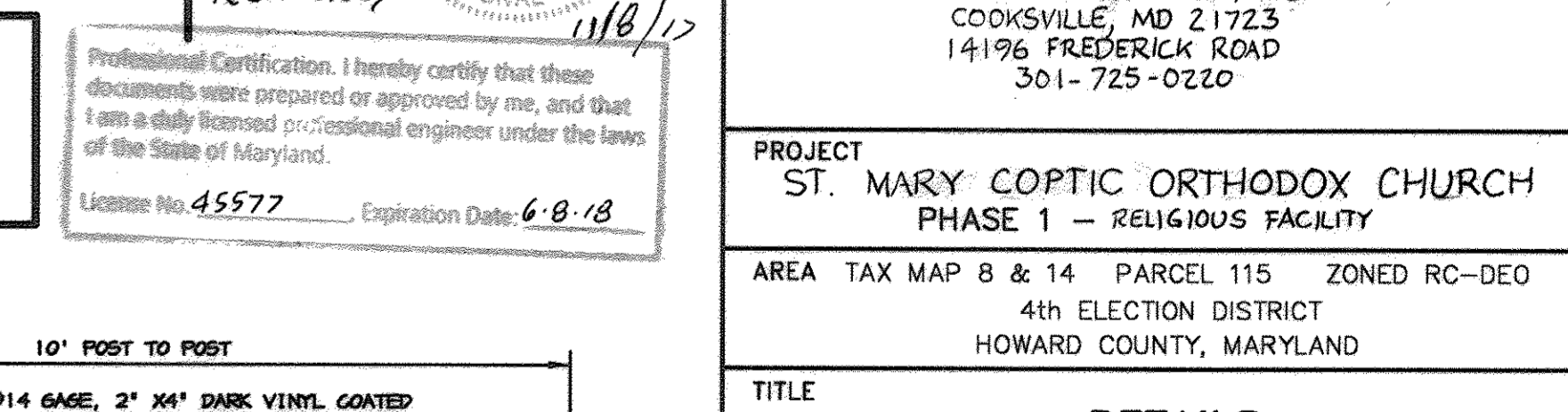
STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



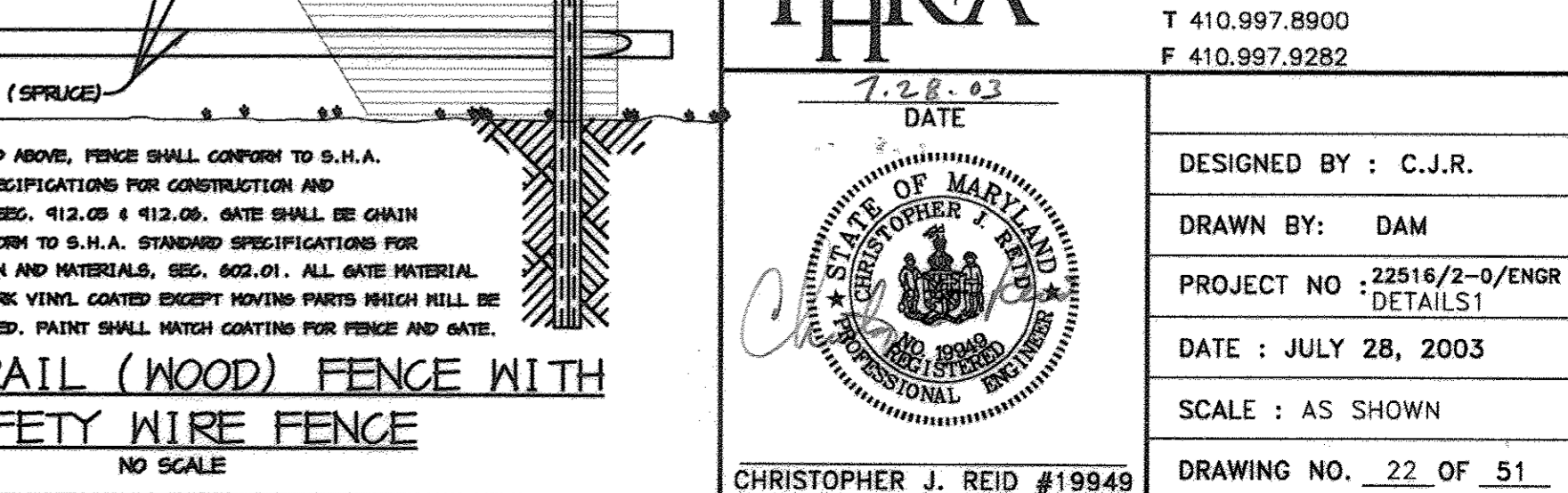
SIDEWALK DETAIL
NO SCALE



NOSE DOWN CURB DETAIL
NO SCALE



CONCRETE WHEEL STOP LOCATION PLAN
NO SCALE



BOLLARD DETAIL
NO SCALE



3 SPLIT RAIL (WOOD) FENCE WITH SAFETY WIRE FENCE
NO SCALE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR: *[Signature]* DATE: 8/20/02

CHIEF, DEVELOPMENT ENGINEERING DIVISION: *[Signature]* DATE: 9/14/02

CHIEF, DIVISION OF LAND DEVELOPMENT: *[Signature]* DATE: 8/22/03

11-8-17 1 REVISE OWNER NAME + USE BY BEI

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

7.28.03
DATE

DESIGNED BY: C.J.R.

DRAWN BY: DAM

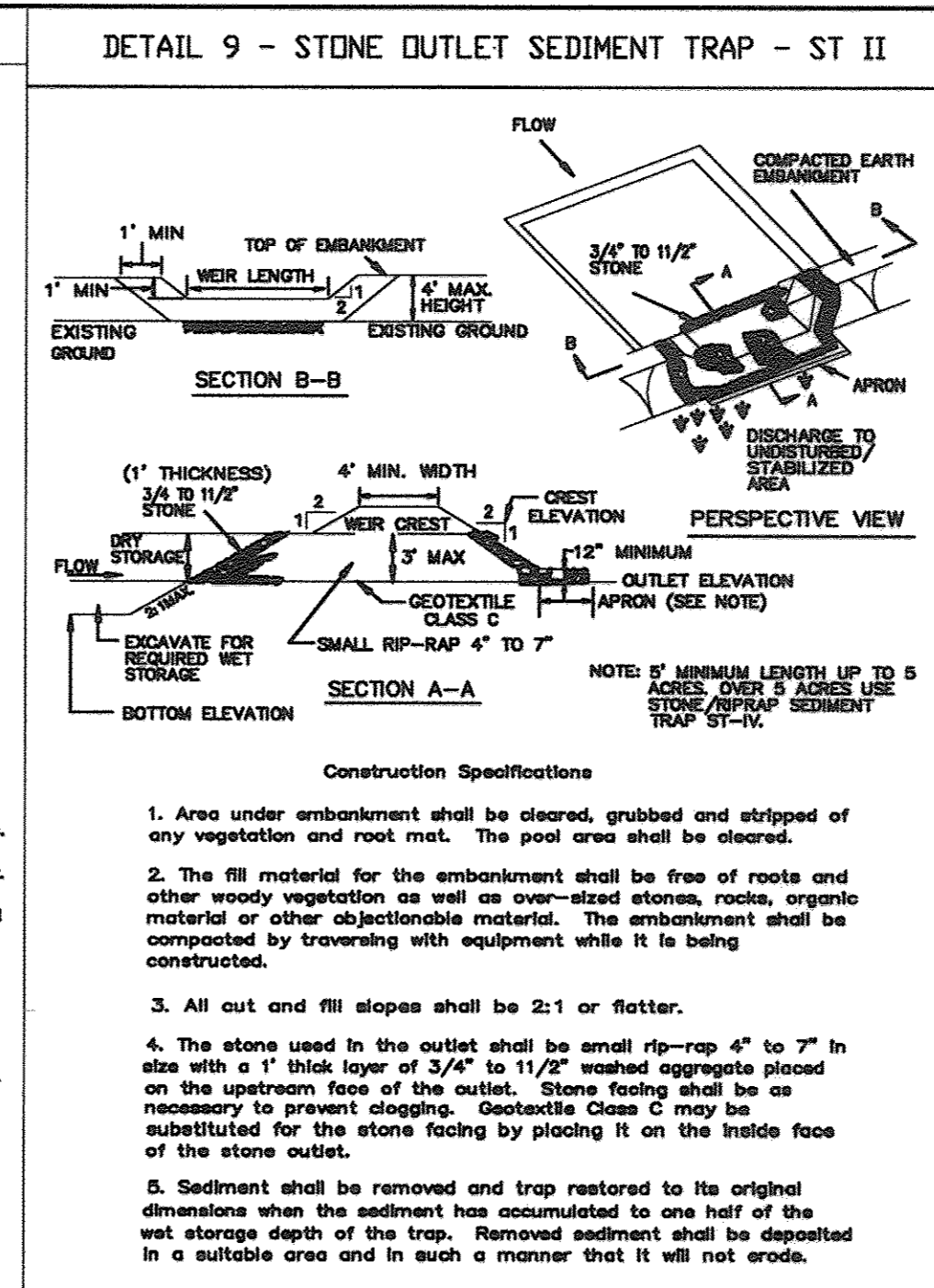
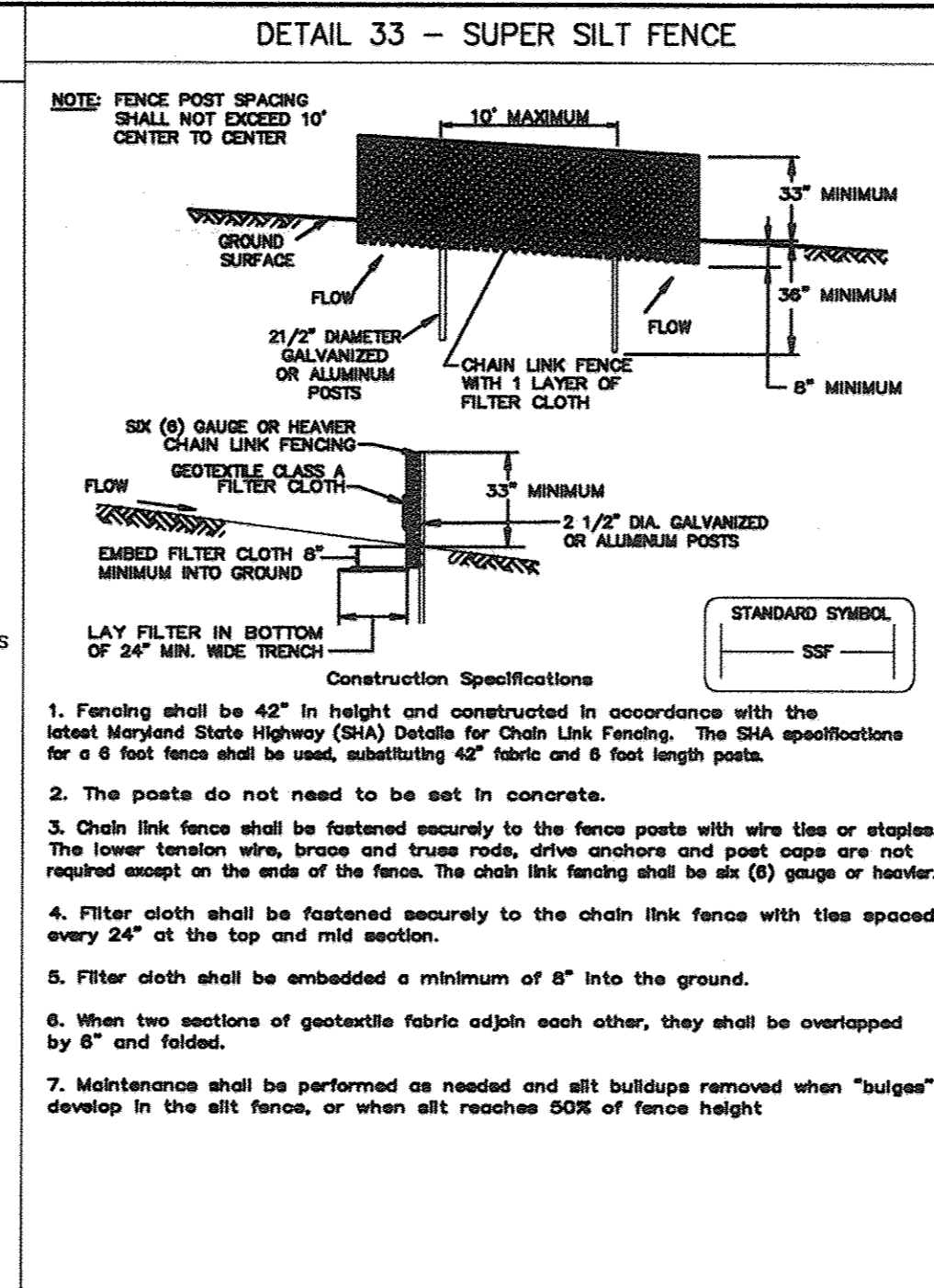
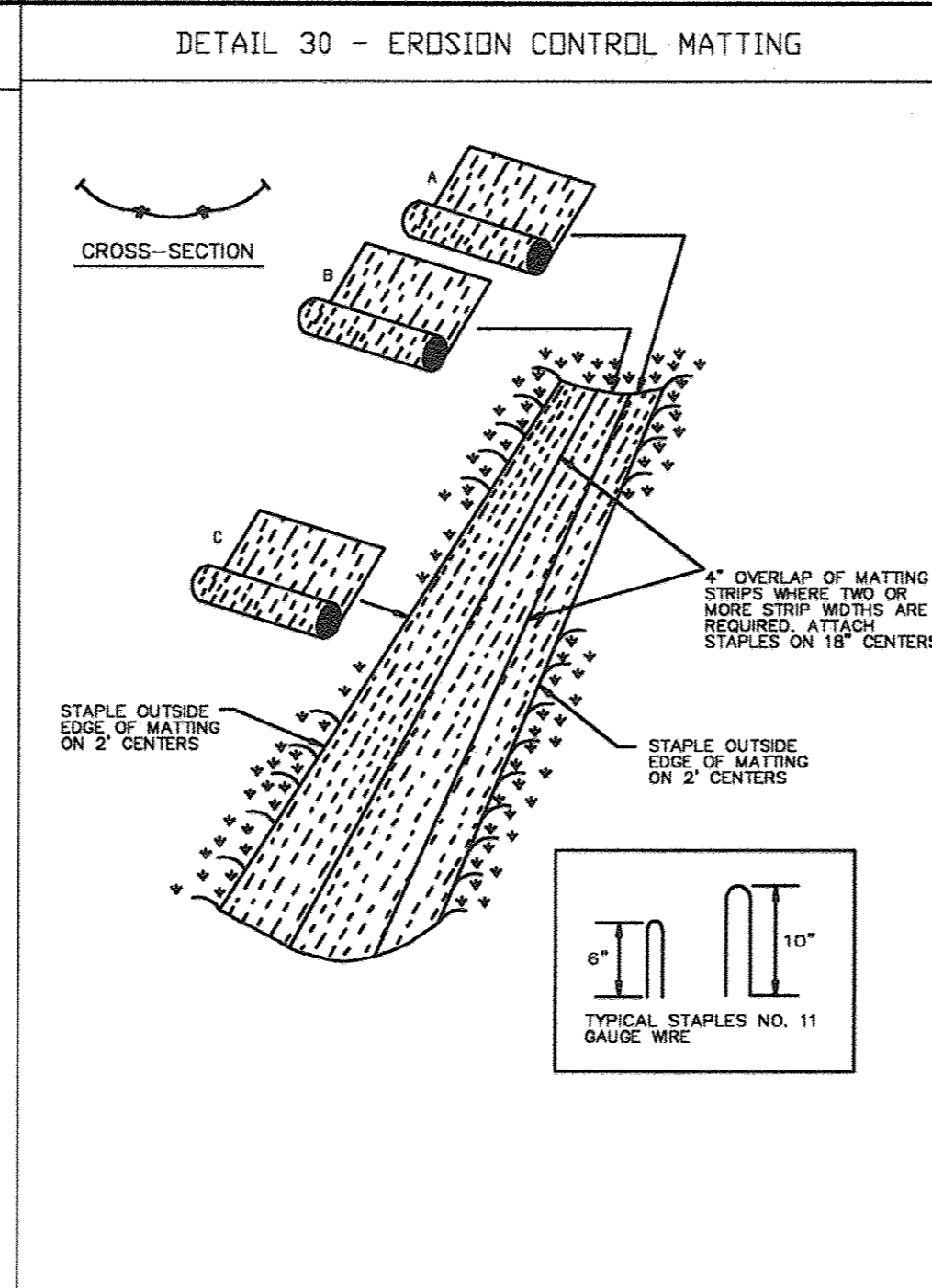
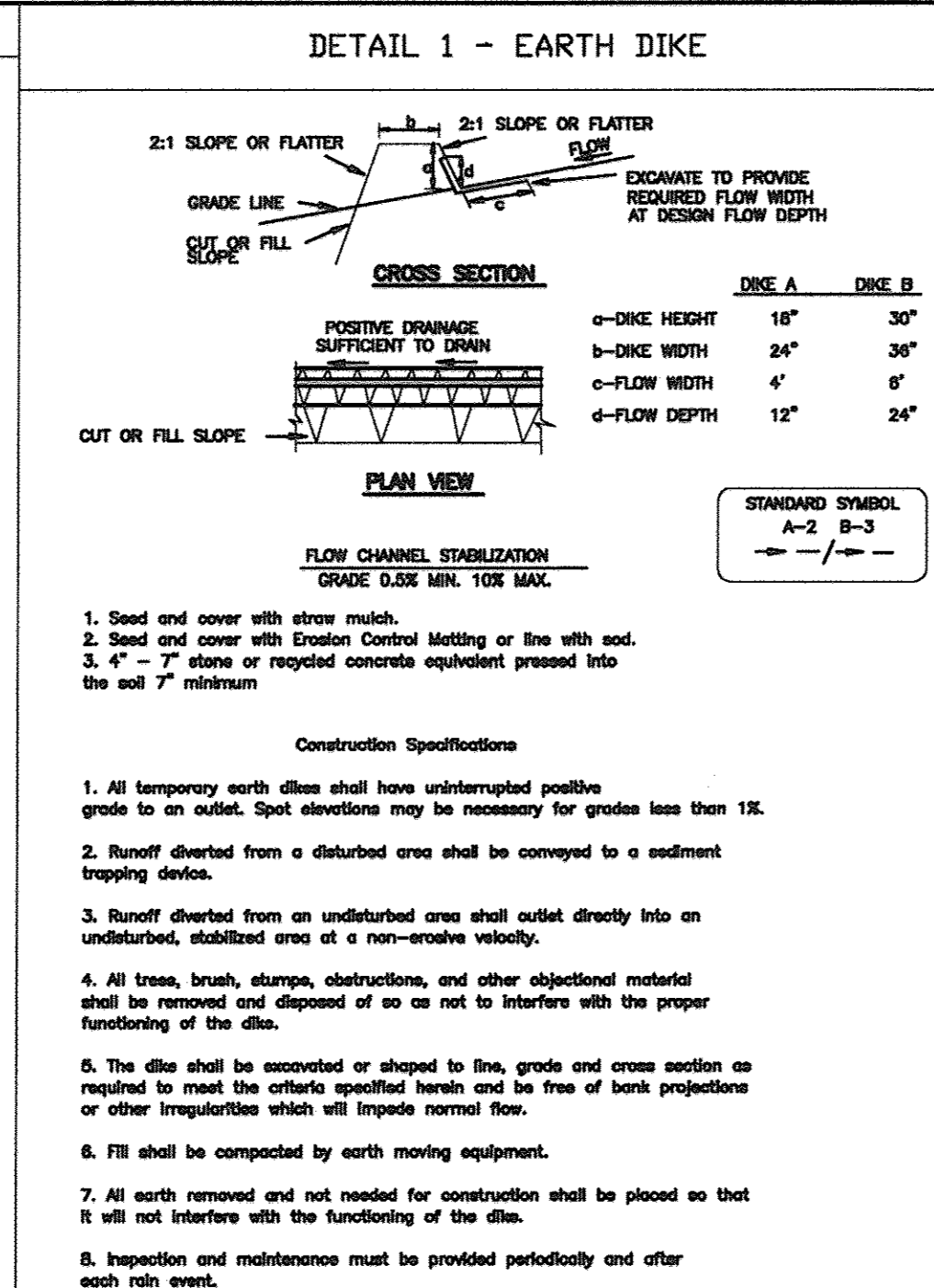
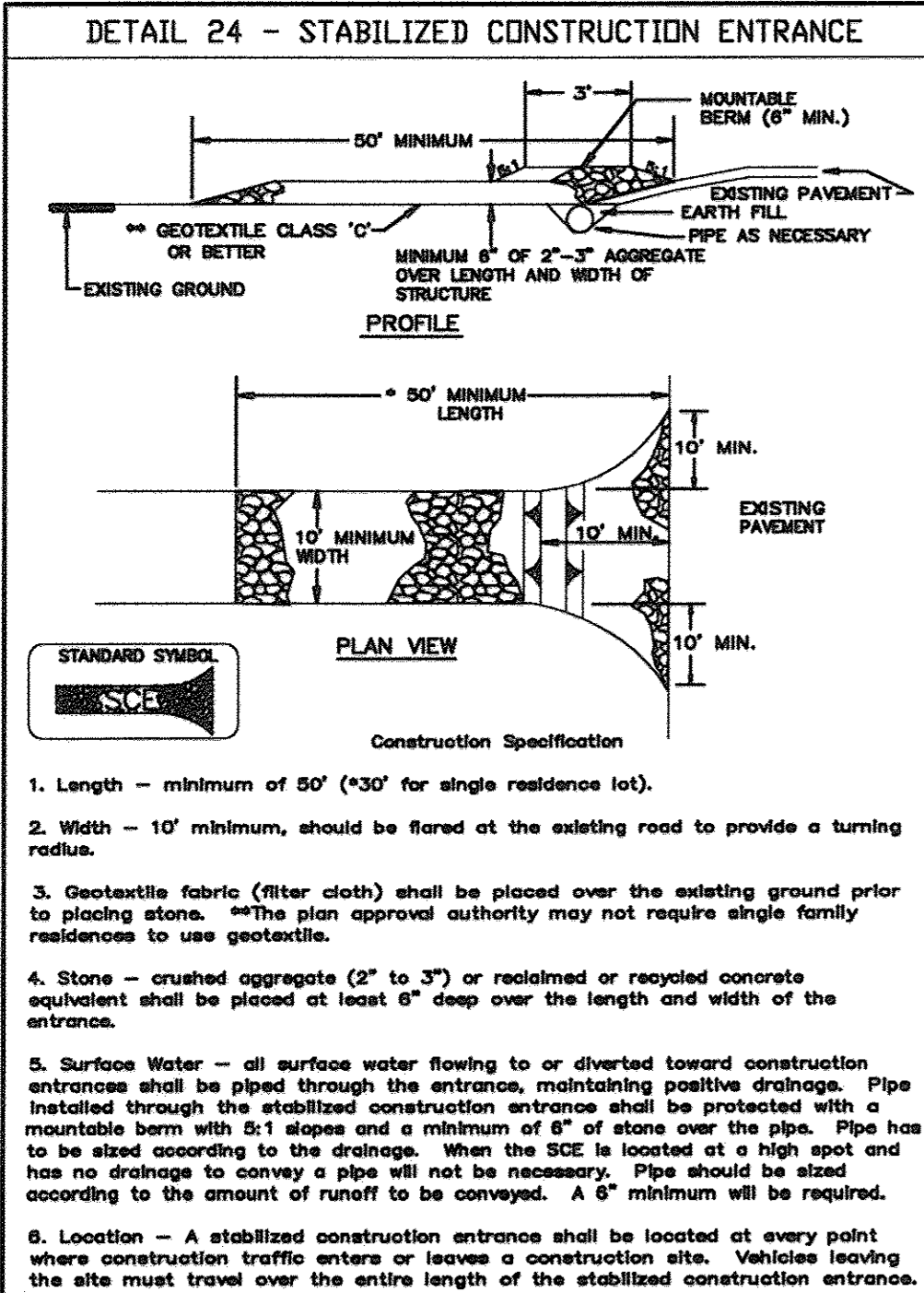
PROJECT NO: 22516/2-0/ENGR
DETAILS1

DATE: JULY 28, 2003

SCALE: AS SHOWN

DRAWING NO. 22 OF 51

CHRISTOPHER J. REID #19949
SDP-03-90



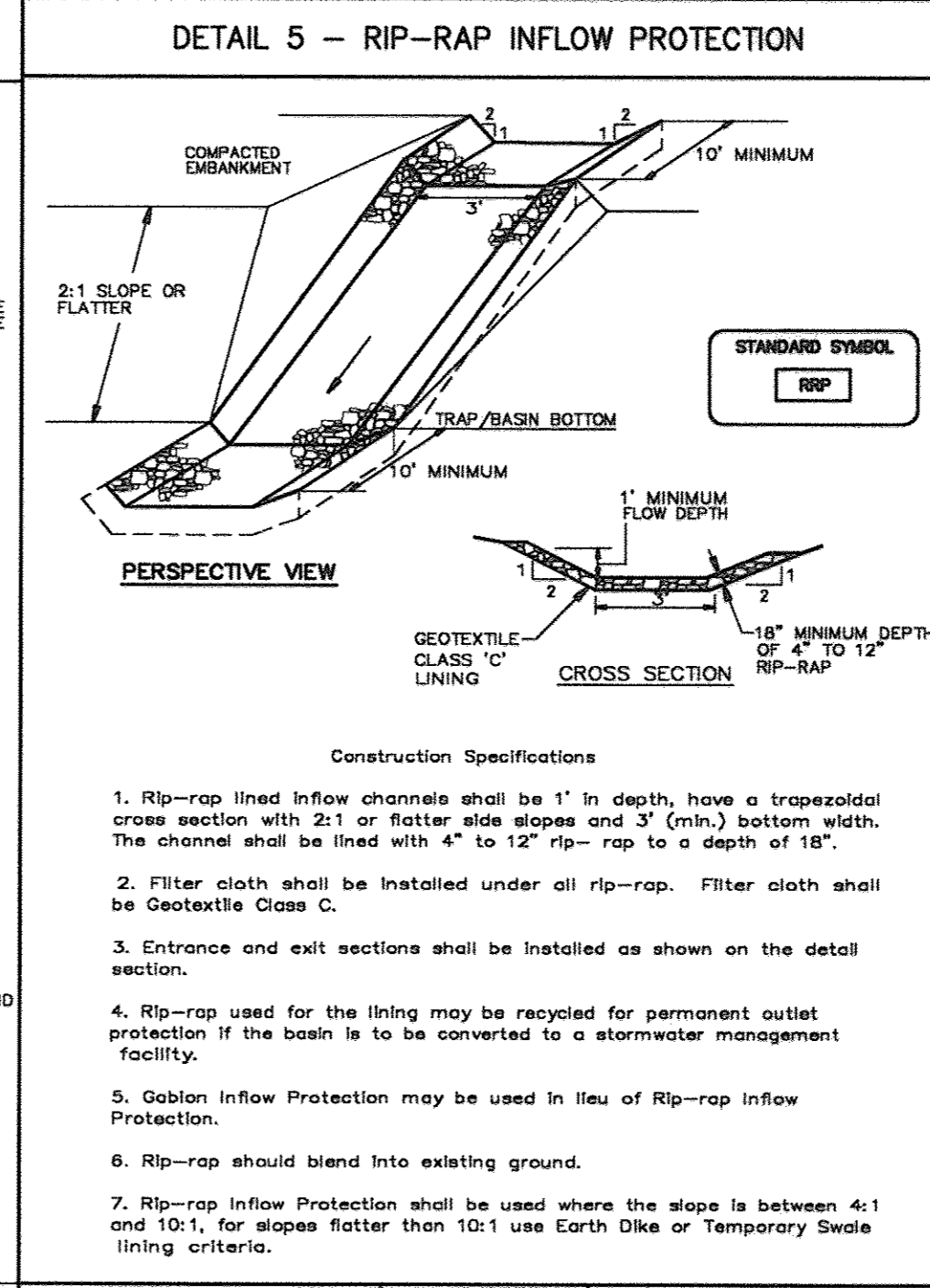
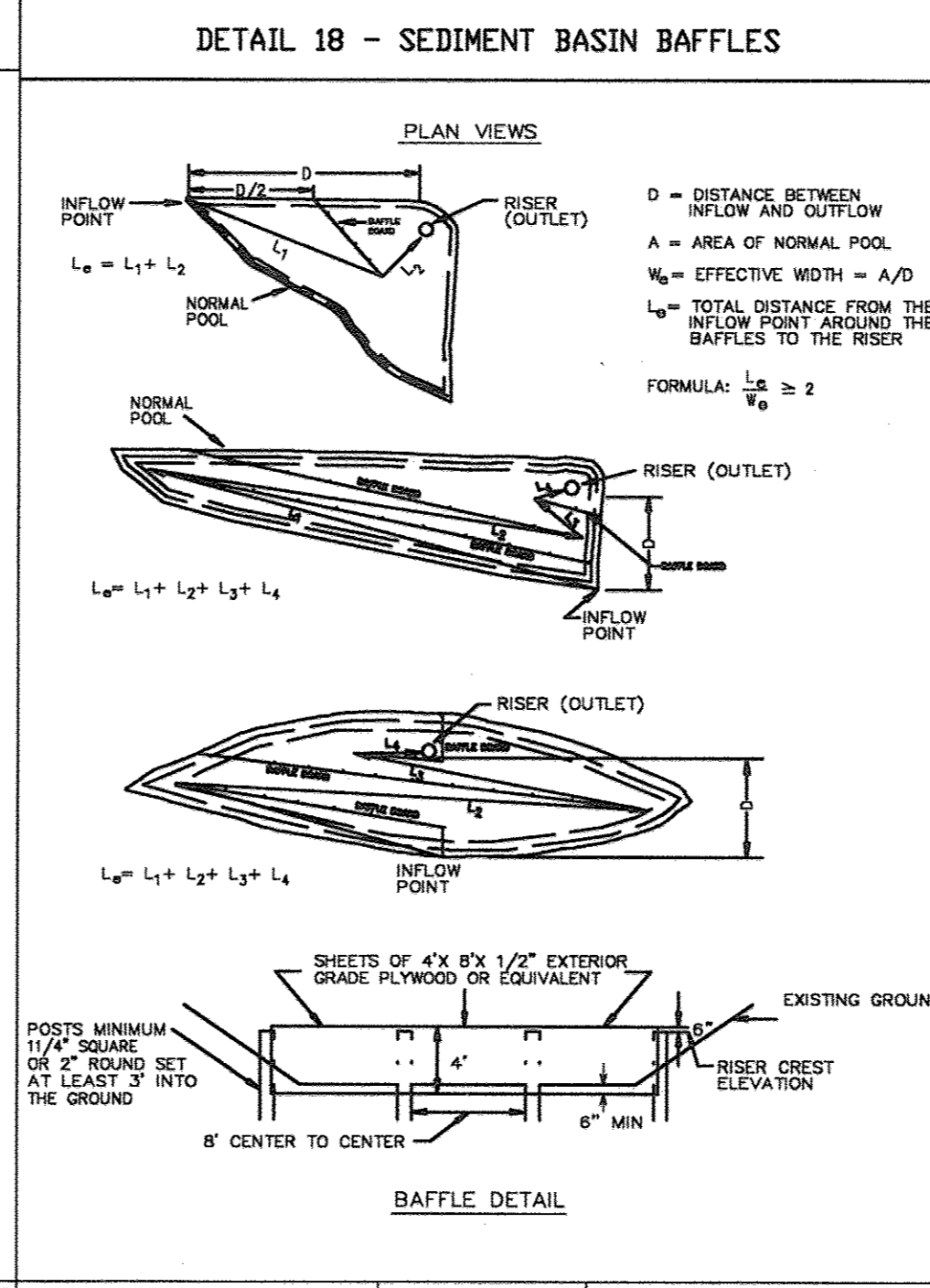
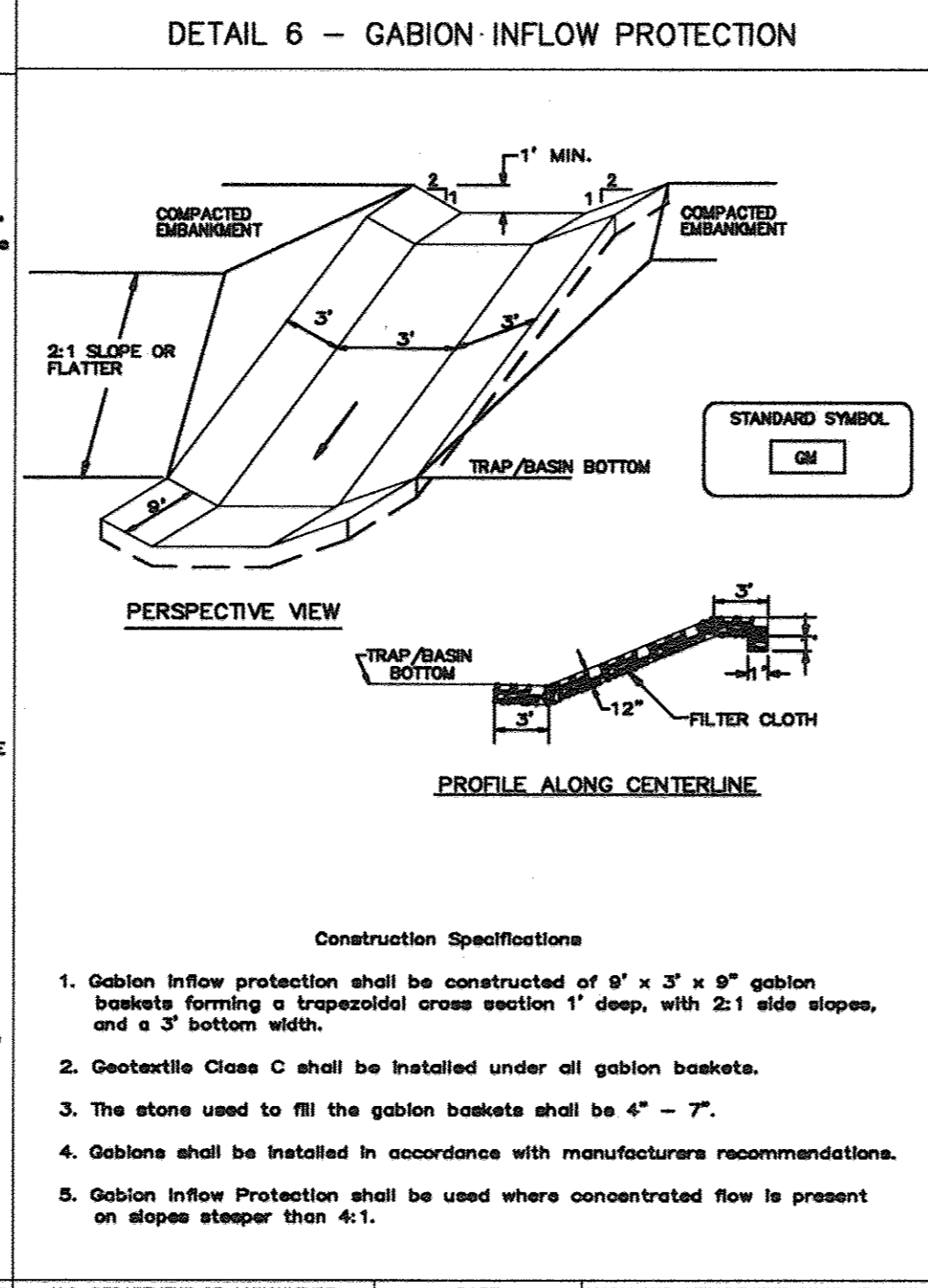
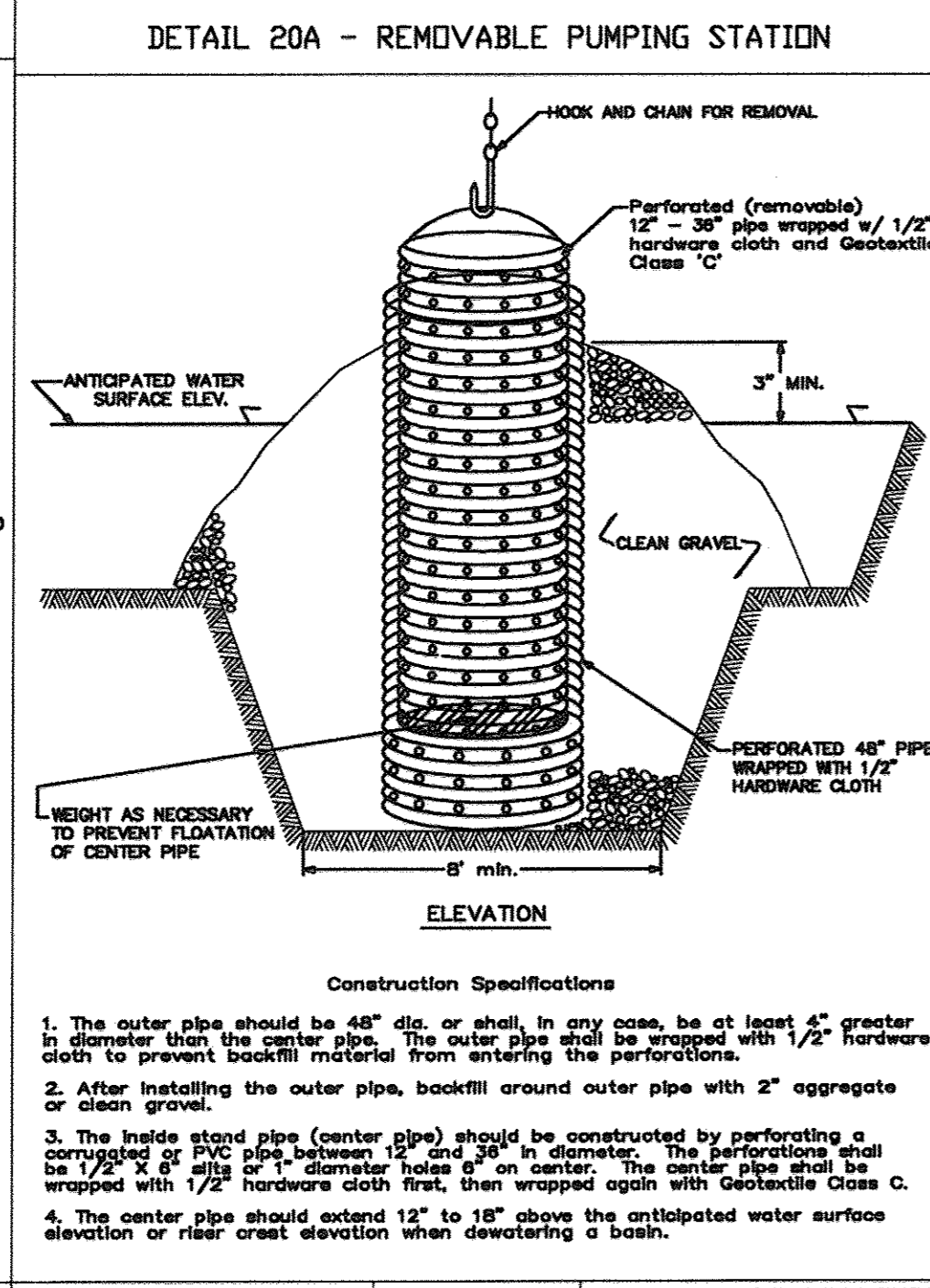
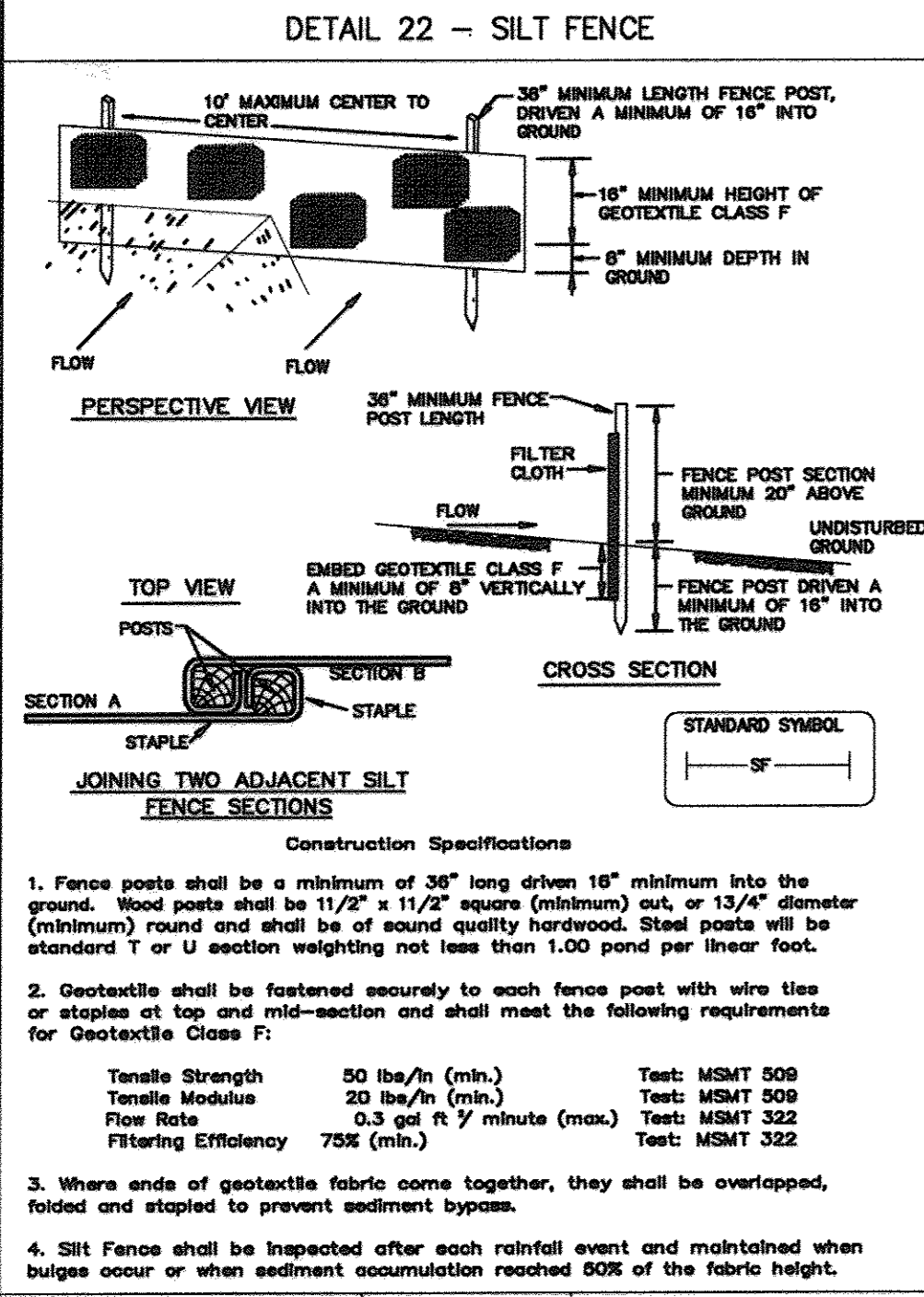
U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE 7-19-3, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE 1-A-6, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE 6-18-2, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE 8-19-3, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE C-9-B, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



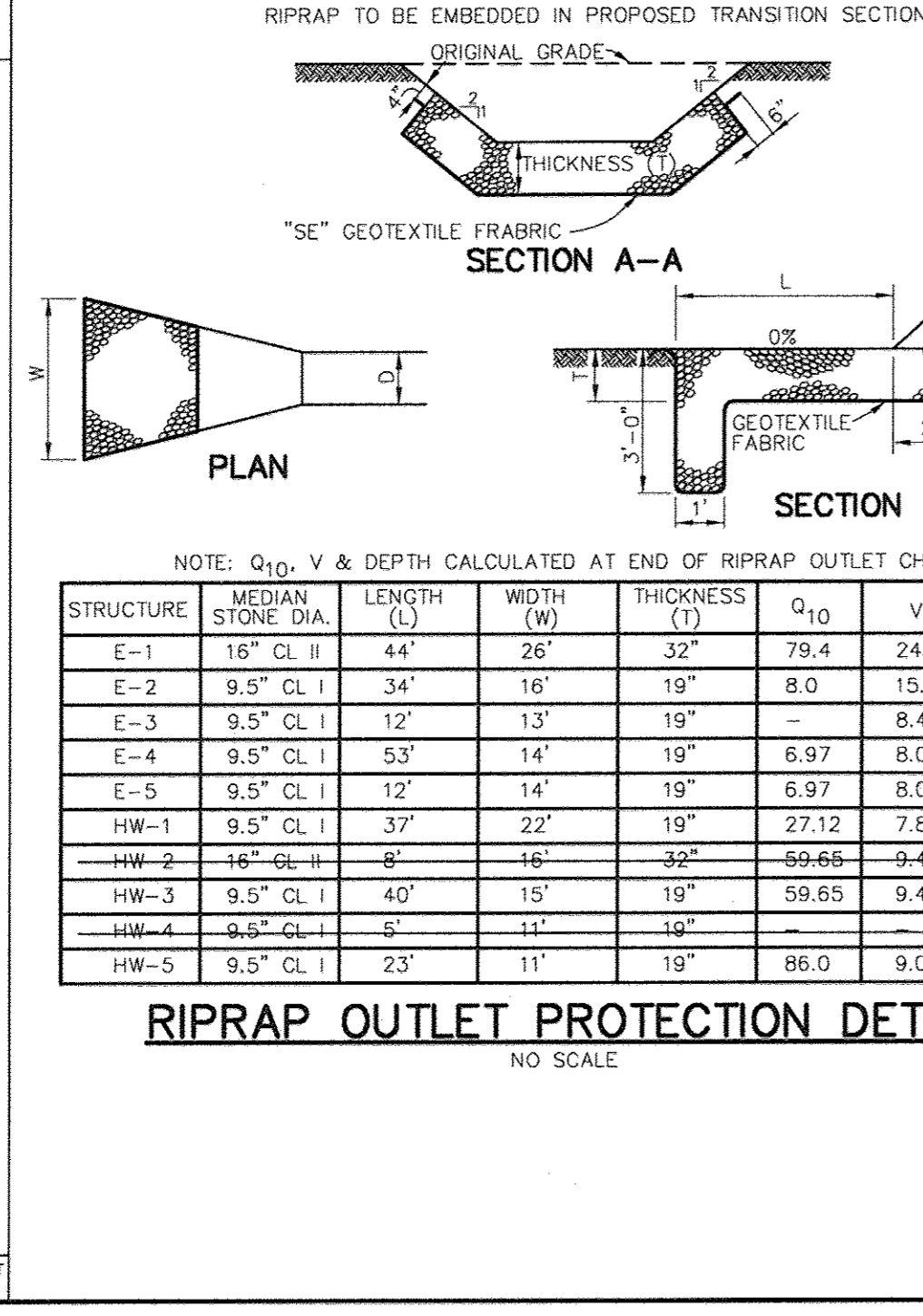
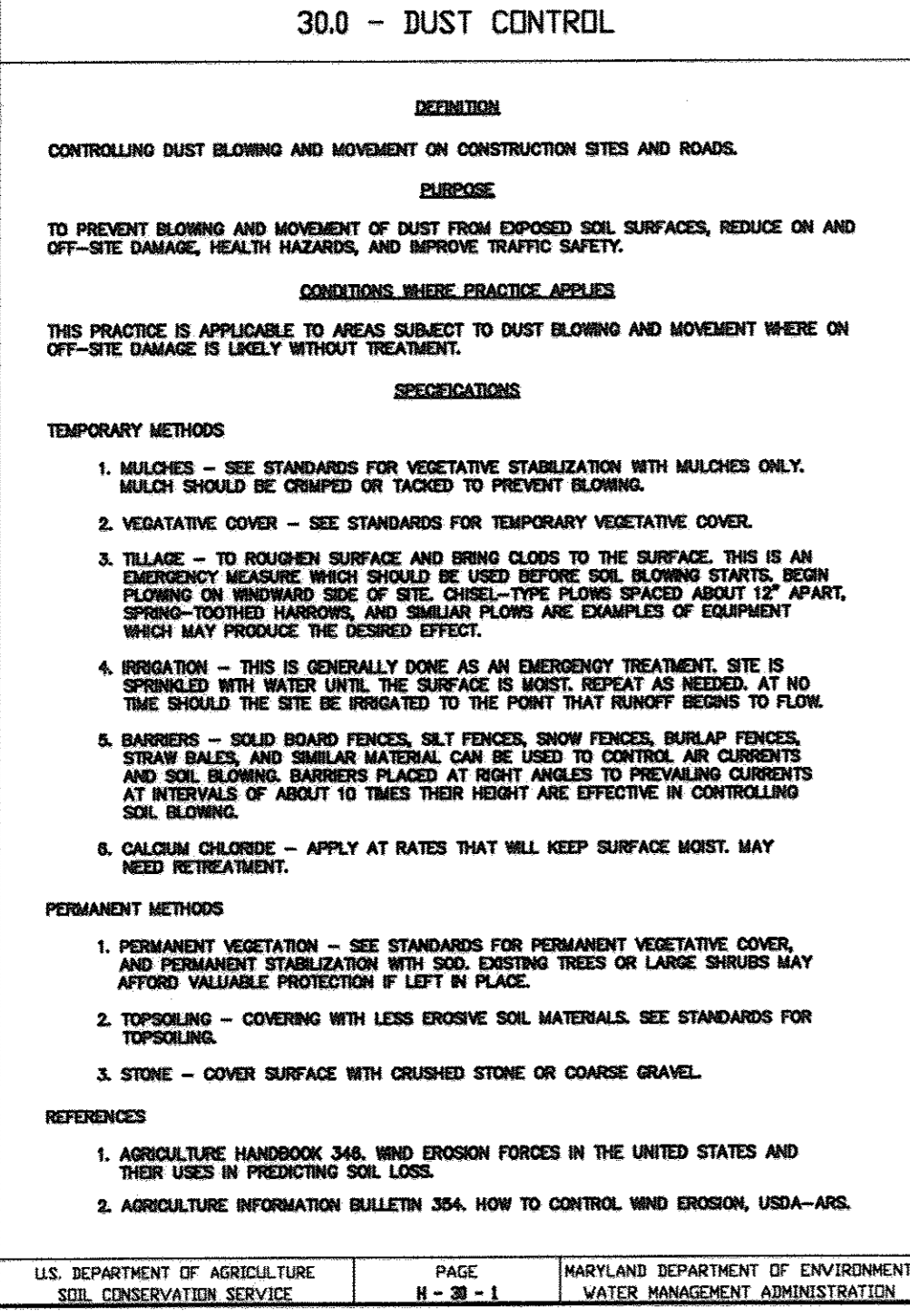
U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE E-18-3, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE B-12-4, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE B-7-2, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE C-19-B, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

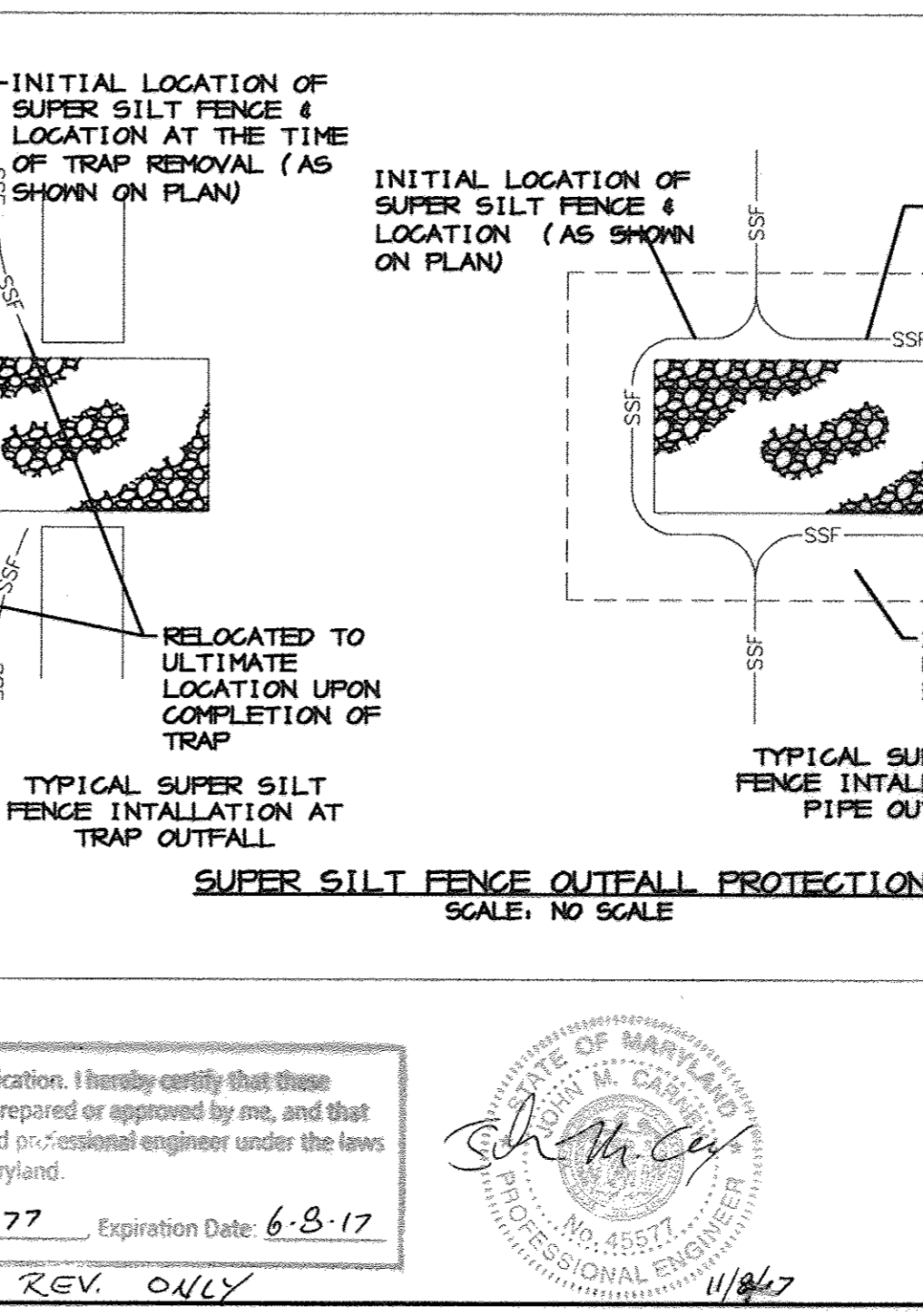
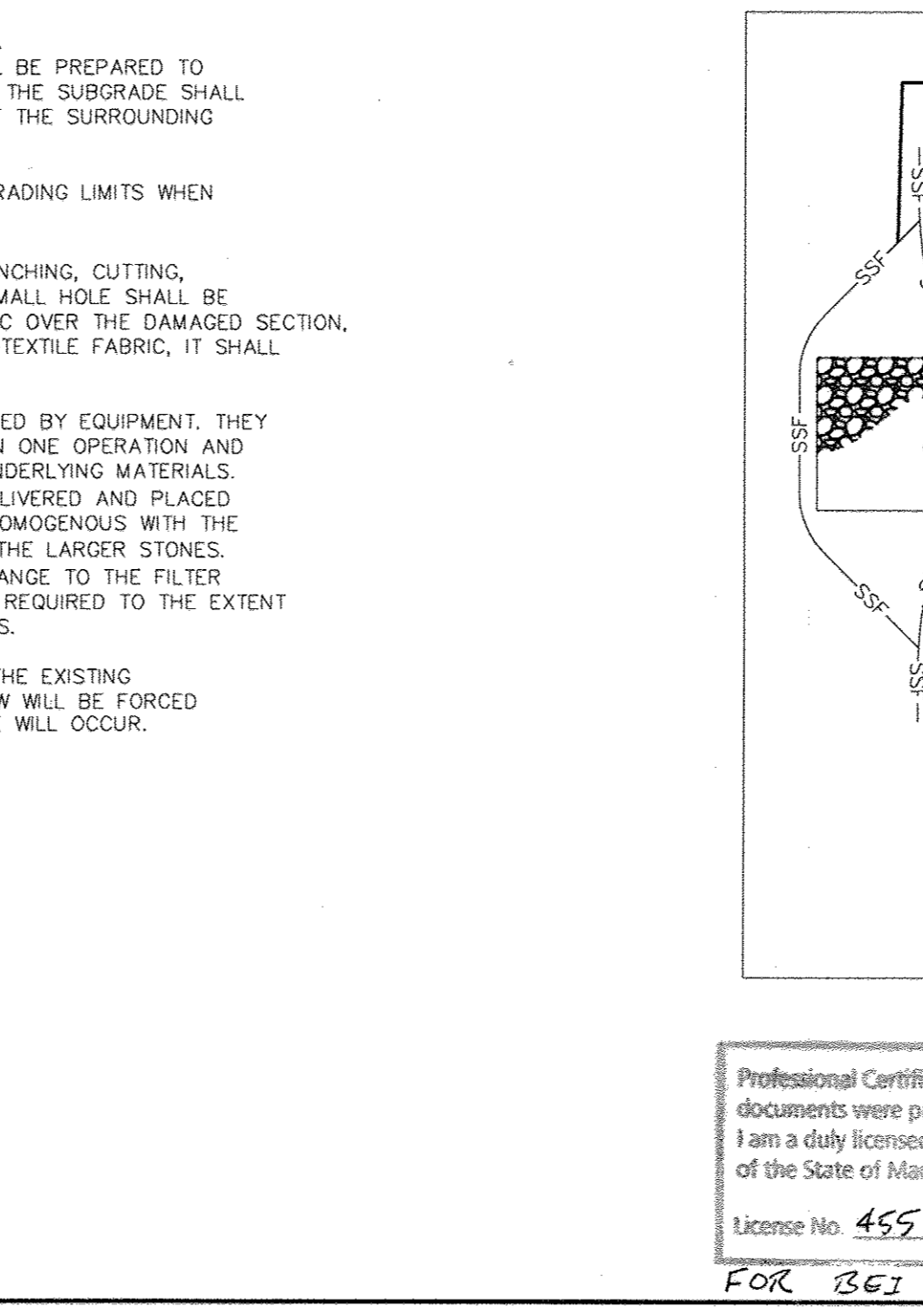
U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, PAGE B-8-2, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



CONSTRUCTION SPECIFICATIONS

- THE SUBGRADE FOR THE FILTER, RIP-RAP, OR GABION SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
- THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIP-RAP OR FILTER.
- "SE" GEOTEXTILE OR BETTER SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE FABRIC OVER THE DAMAGED SECTION. WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF GEOTEXTILE FABRIC, IT SHALL BE A MINIMUM OF ONE FOOT.
- STONE FOR THE RIP-RAP OR GABION OUTLETS MAY BE PLACED BY EQUIPMENT. THEY SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIP-RAP OR GABION OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIP-RAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER, BLANKET OR GEOTEXTILE FABRIC. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
- THE STONE SHALL BE PLACED SO THAT IT BLENDS IN WITH THE EXISTING GROUND. IF THE STONE IS PLACED TOO HIGH THEN THE FLOW WILL BE FORCED OUT OF THE CHANNEL AND SCOUR ADJACENT TO THE STONE WILL OCCUR.

STRUCTURE	MEDIAN STONE DIA.	LENGTH (L)	WIDTH (W)	THICKNESS (T)	Q ₁₀	V _p	DEPTH
E-1	16" CL II	44'	26'	32"	79.4	24.2	1.2'
E-2	9.5" CL I	34'	16'	19"	8.0	15.4	0.5'
E-3	9.5" CL I	12'	13'	19"	-	8.4	0.34
E-4	9.5" CL I	53'	14'	19"	6.97	8.04	0.14'
E-5	9.5" CL I	12'	14'	19"	6.97	8.04	-
HW-1	9.5" CL I	37'	22'	19"	27.12	7.84	1.25'
HW-2	16" CL II	8'	16'	32"	59.66	9.4	1.86'
HW-3	9.5" CL I	40'	15'	19"	59.65	9.4	1.85'
HW-4	9.5" CL I	5'	11'	19"	-	-	-
HW-5	9.5" CL I	23'	11'	19"	86.0	9.0	-



BY THE DEVELOPER:

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: [Signature] DATE: 7.28.03

BY THE ENGINEER:

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER: [Signature] DATE: 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE DATE: 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT DATE: 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

COUNTY HEALTH OFFICER DATE: 8/20/03

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR DATE: 8/20/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 9/14/03

CHIEF, DIVISION OF LAND DEVELOPMENT DATE: 8/27/03

11.8.17.1 REVISE OWNER NAME + USE BY BEI

DATE NO. REVISION

OWNER / DEVELOPER

ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220

PROJECT

ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE

SEDIMENT CONTROL DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE: 7.28.03

DESIGNED BY: C.J.R.

DRAWN BY: DAM

PROJECT NO.: 22516/2-0/ENGR DETAILS3

DATE: JULY 28, 2003

SCALE: AS SHOWN

DRAWING NO.: 24 OF 51

CHRISTOPHER J. REID #19849

SDP-03-90

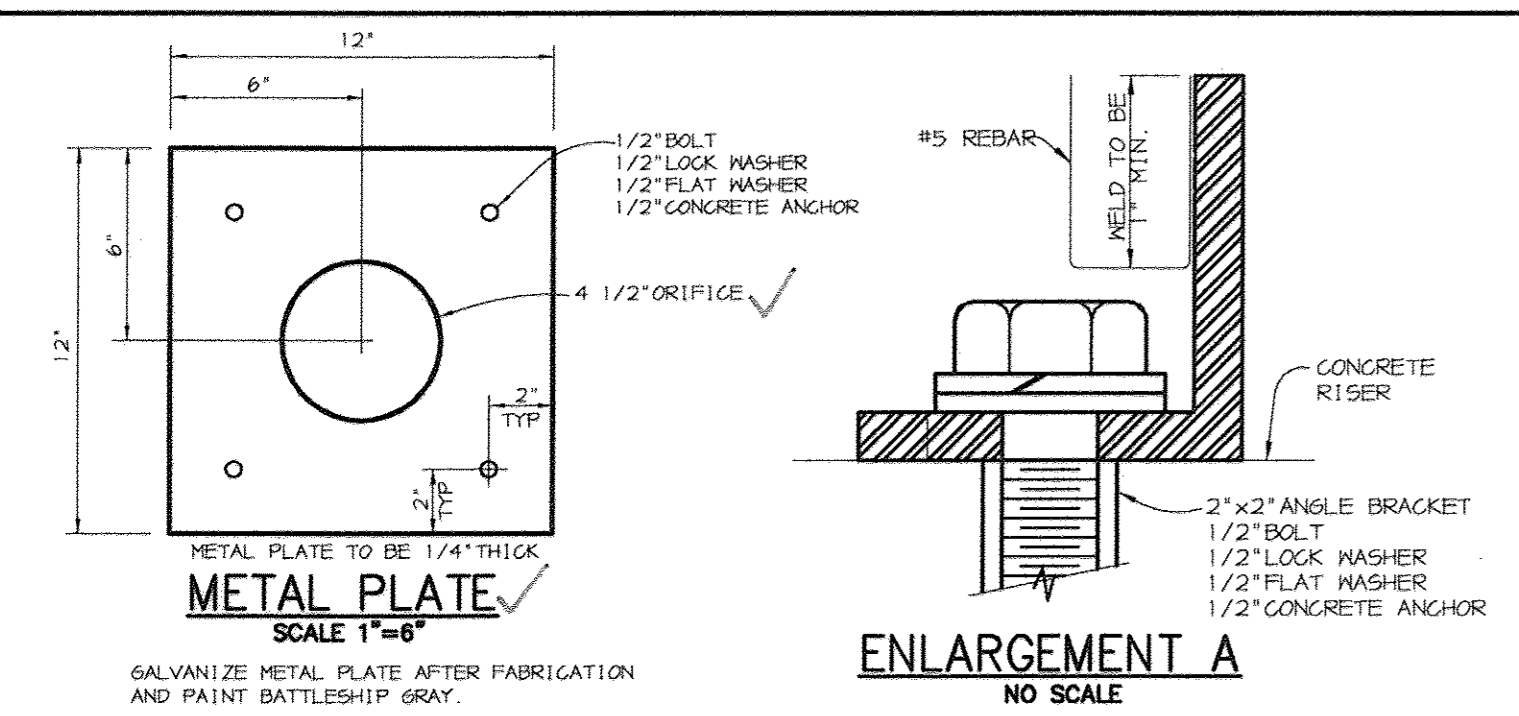
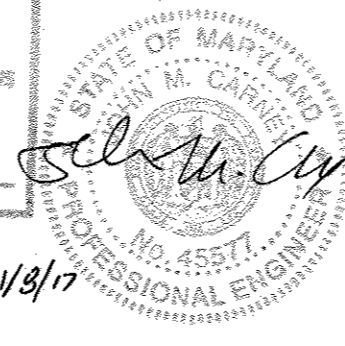
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 45577 Expiration Date: 6-8-17

FOR BEI REV. ONLY

11/4/07

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 6-3-18
 For Best Rev. ONLY
 11/8/17

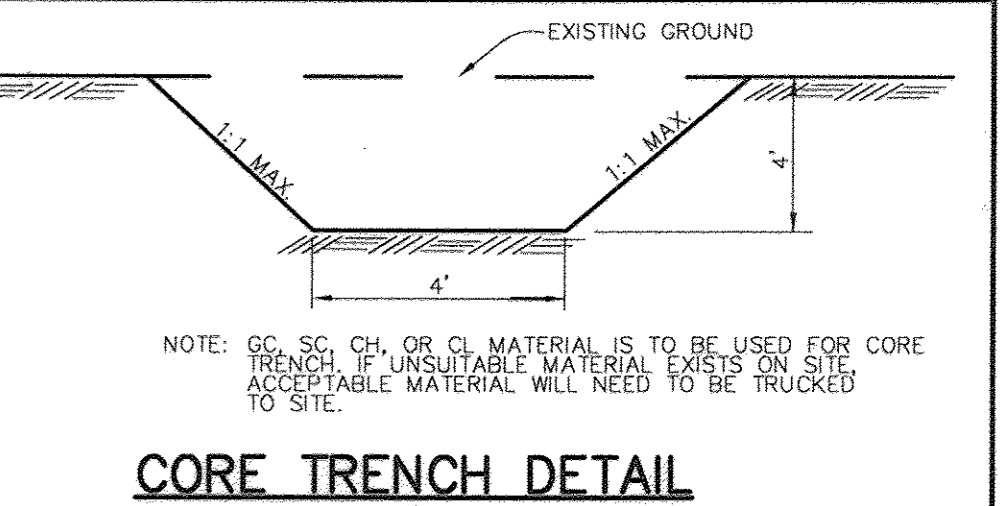
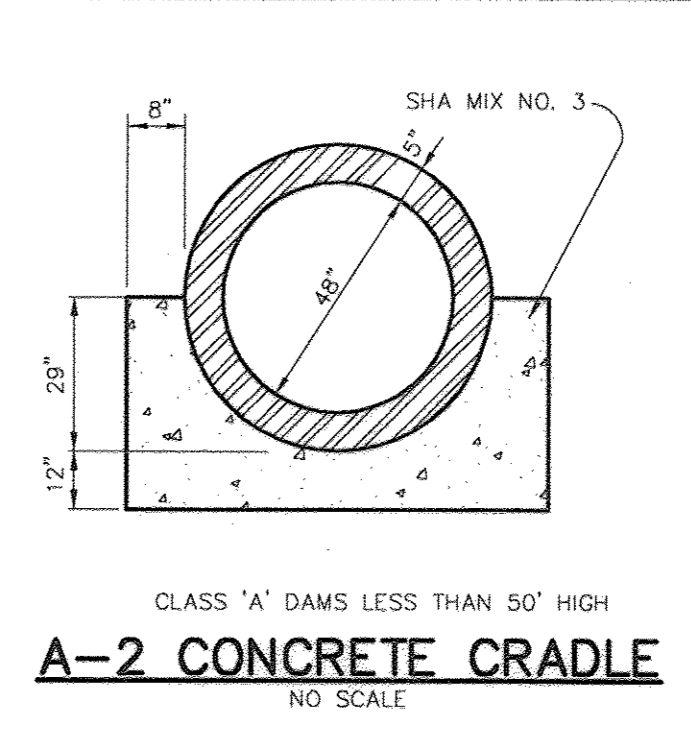
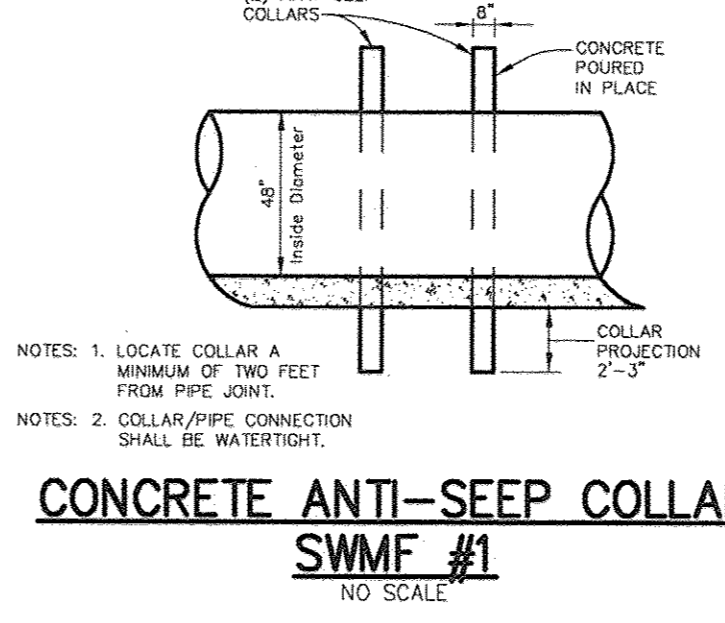
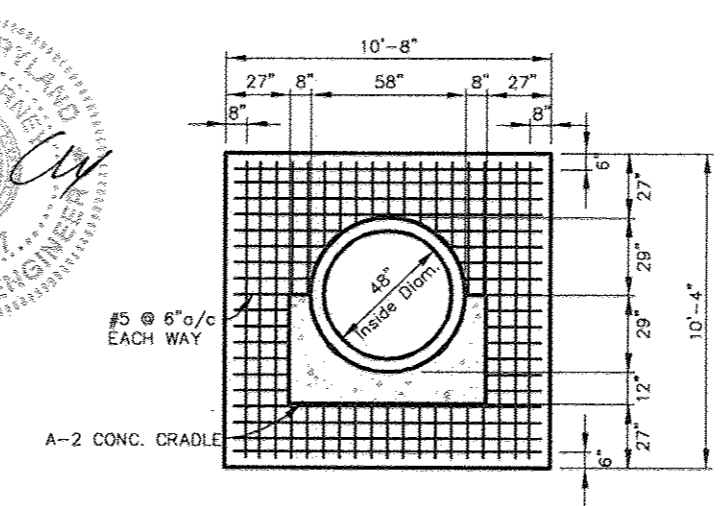
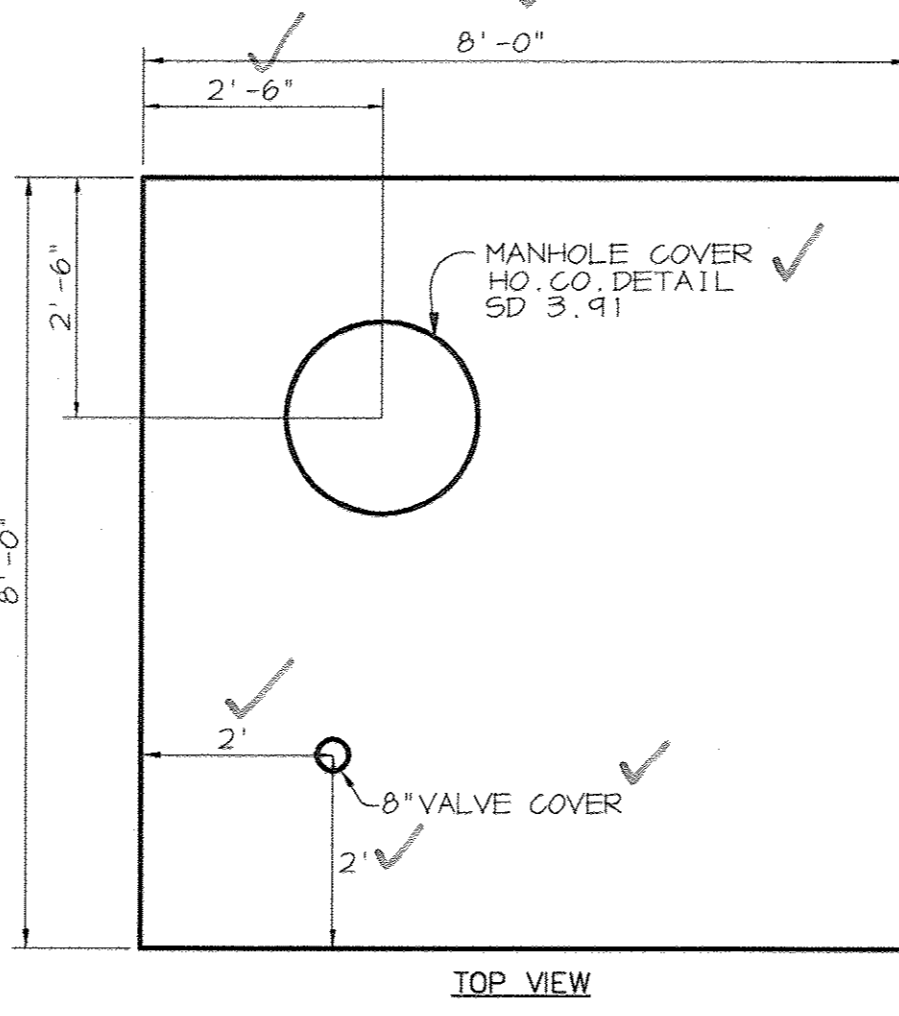
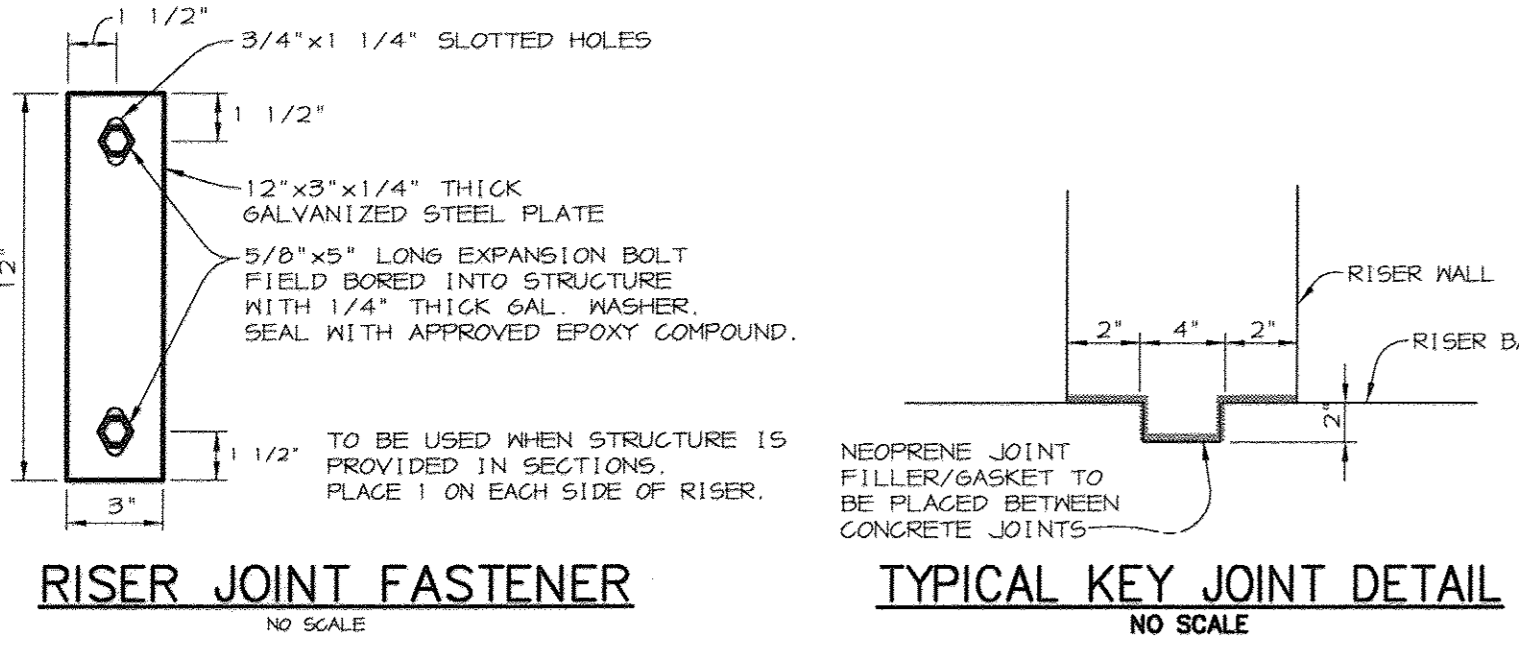


RISER STRUCTURE NOTES FOR S-1

- RISER TO BE CAST-IN-PLACE. SHOP DRAWINGS FOR THIS CONCRETE STRUCTURE SHALL MEET THE MINIMUM ASTM REQUIREMENTS FOR CAST-IN-PLACE STRUCTURES. A SHOP DRAWING SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AND SHALL BE SIGNED AND SEALED BY A MARYLAND REGISTERED PROFESSIONAL ENGINEER.
- CONCRETE SHALL BE MSHA MIX NO. 3 (f_c=3,500 PSI MINIMUM)
- REFER TO HOWARD COUNTY STD. 6-5.21 FOR MANHOLE STEP DETAILS.
- RISER JOINTS SHALL BE WATERTIGHT USING NEOPRENE GASKETS.
- ALL PIPE CONNECTIONS SHALL PROVIDE RUBBER GASKET FOR WATERTIGHTNESS.
- RISER SHALL BE PLACED ON A FIRMLY COMPACTED SUBGRADE AND SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- ALL 8" BUTTERFLY VALVE SHALL BE CONNECTED TO THE RISER WALL WITH ALL-THREADED ROD AND A FLANGE JOINT.

REMOVABLE TRASH RACK NOTES:

- STEEL TO CONFORM TO ASTM A-36. #5 BARS TO BE SMOOTH. SEE DETAIL FOR SPACINGS.
 - ALL REBAR TO BE WELDED AT ALL INTERSECTIONS.
 - ALL BENDS TO BE 2" RADIUS. 2"x2" ANGLE IRON AND 1/2" DIAMETER ANCHOR BOLTS TO BE USED FOR TRASH RACK FRAME.
 - GALVANIZE TRASH RACK AFTER FABRICATION AND PAINT 2-COATS BATTLESHIP GRAY.
- RISER REINFORCEMENT NOTES:**
 REINFORCING TO BE #1 DEFORMED BARS @ 6" C/C, 2 WAYS, WITH 2" COVER IN TOP SLAB
 REINFORCING TO BE #4 DEFORMED BARS @ 6" C/C, 2 WAYS WITH 2" COVER IN WALLS AND BOTTOM SLAB.



BY THE DEVELOPER:
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER: [Signature] DATE: 7.28.03

BY THE ENGINEER:
 I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

ENGINEER: [Signature] DATE: 7.28.03

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL.

NATURAL RESOURCES CONSERVATION SERVICE: [Signature] DATE: 8/14/03

THESE PLANS FOR SMALL POND CONSTRUCTION SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT: [Signature] DATE: 8/14/03

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: [Signature]

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR: [Signature] DATE: 8/14/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION: [Signature] DATE: 8/14/03
 CHIEF, DIVISION OF LAND DEVELOPMENT: [Signature] DATE: 8/14/03

11-8-17 REVISE OWNER, NAME + USE BY BEZ
 OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

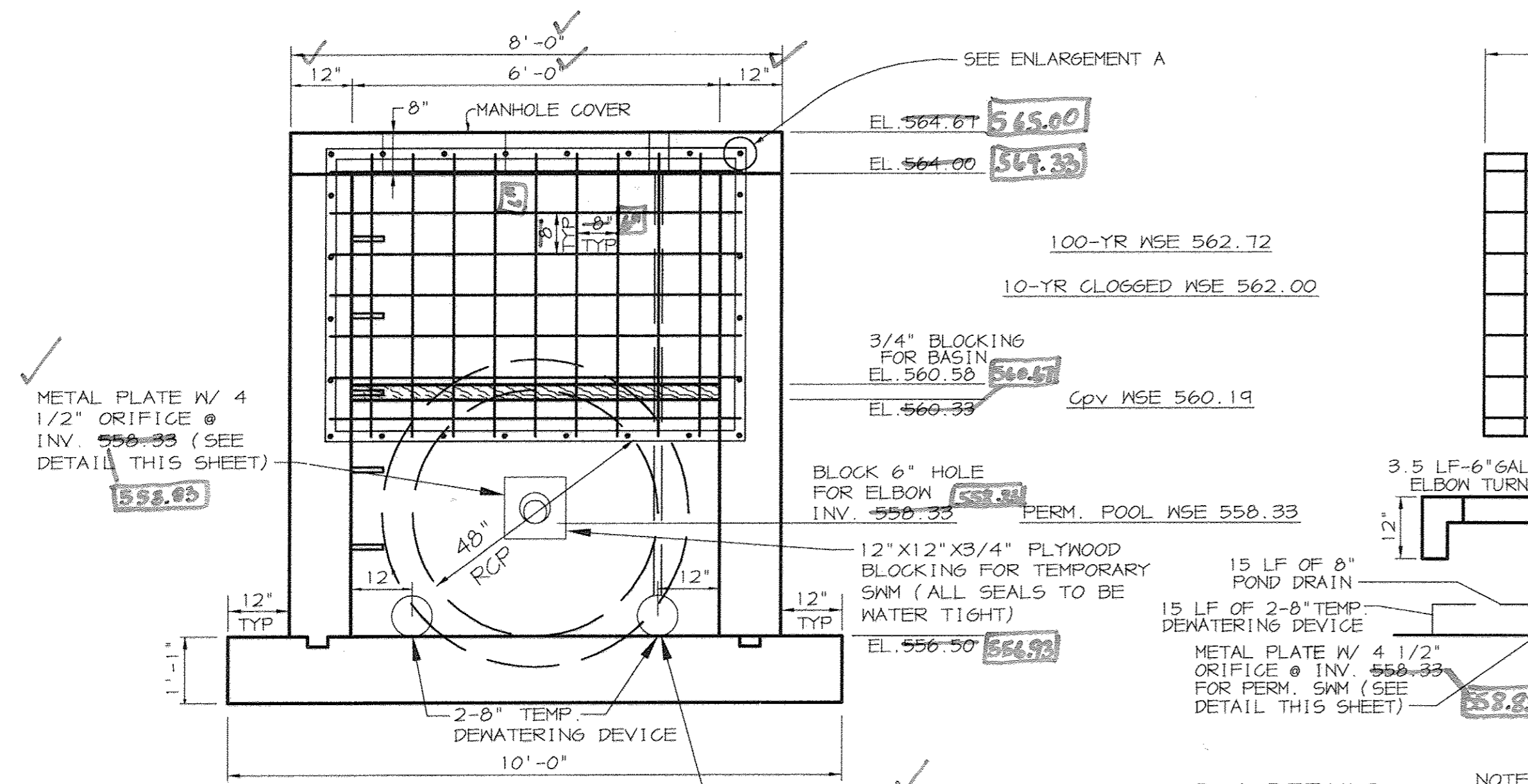
PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
STORMWATER MANAGEMENT PROFILES AND DETAILS

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE: 7.28.03
 DESIGNED BY: C.J.R.
 DRAWN BY: DAM
 PROJECT NO: 22516/2-0/ENGR DETAILS4
 DATE: JULY 28, 2003
 SCALE: AS SHOWN
 DRAWING NO. 25 OF 51

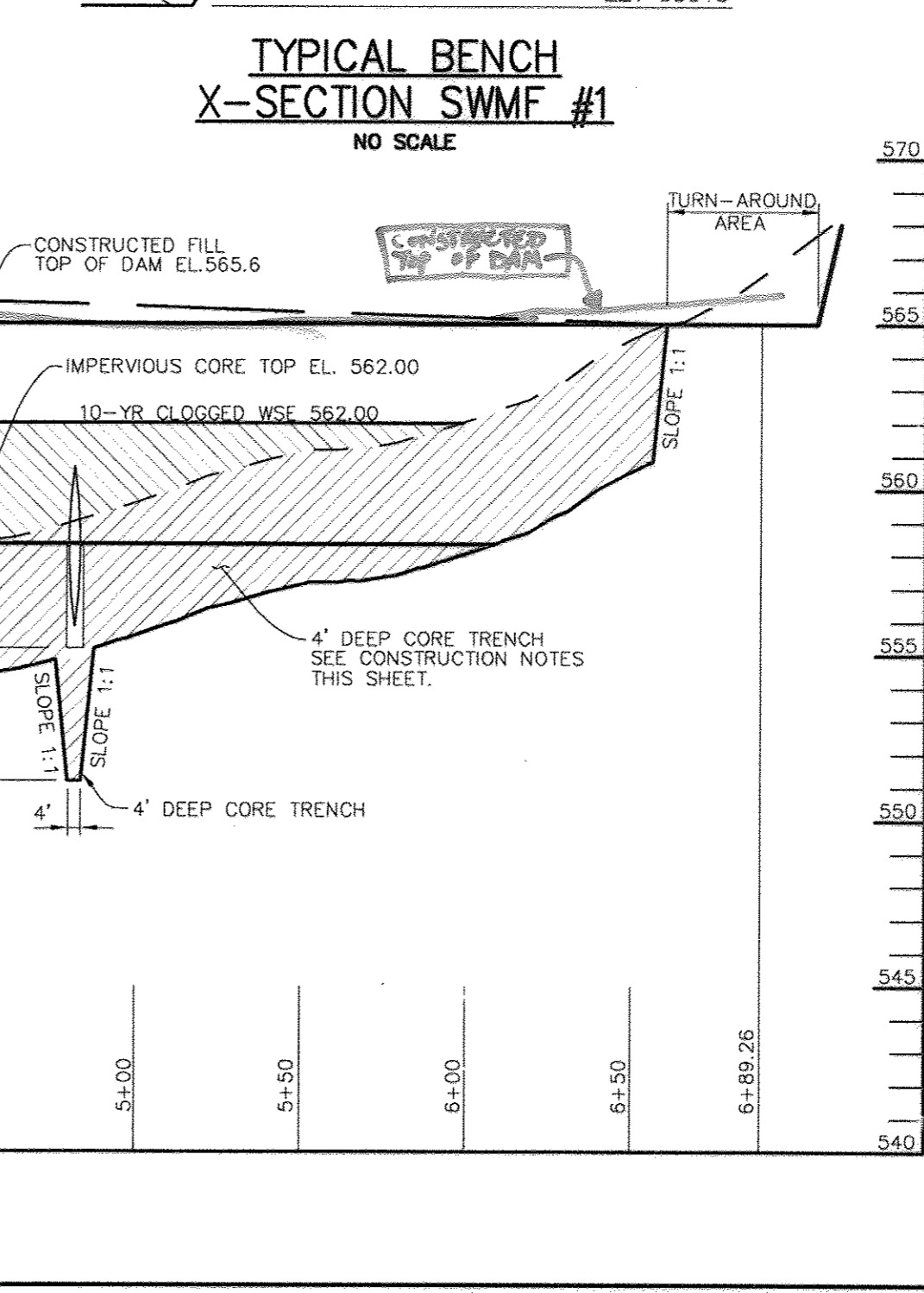
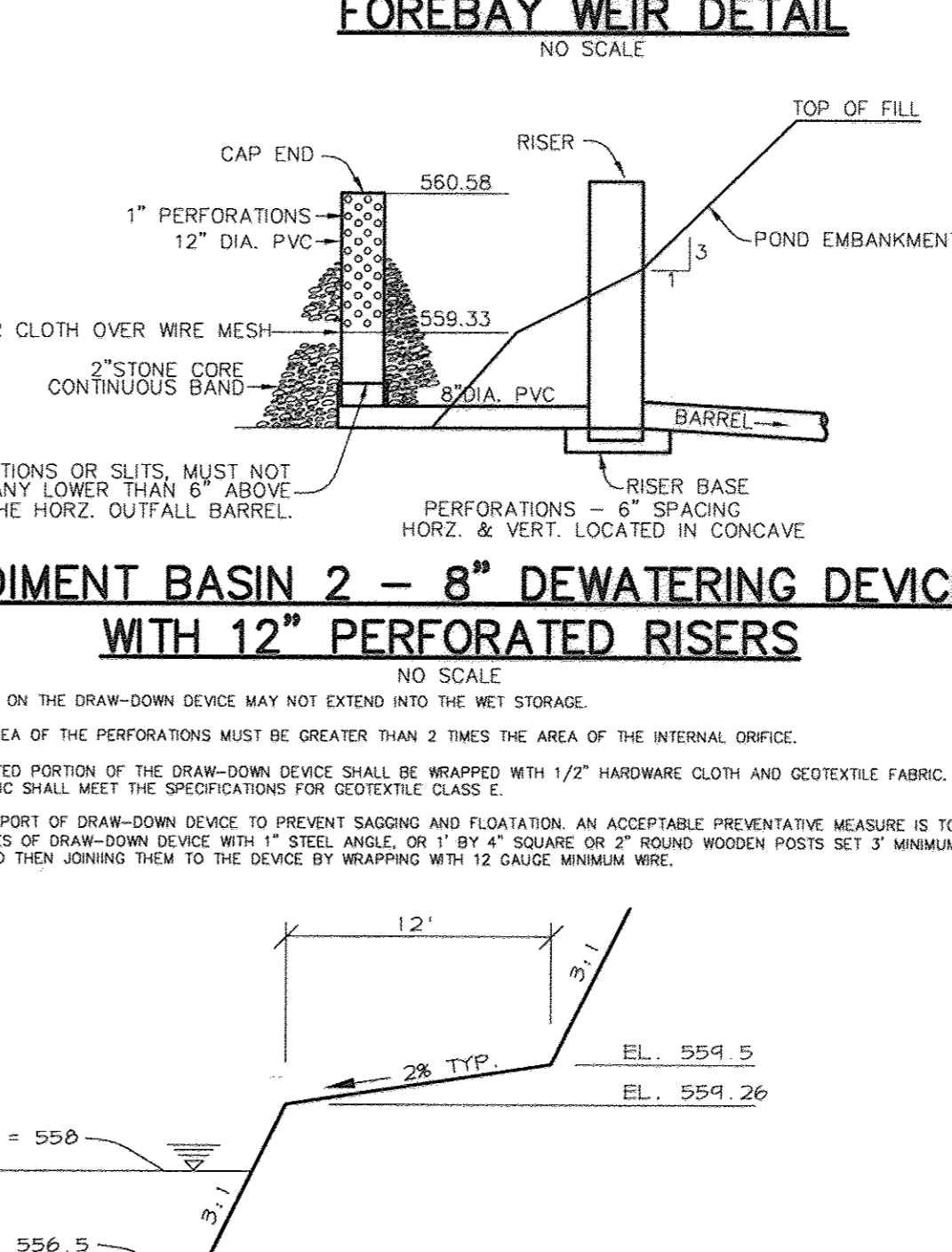
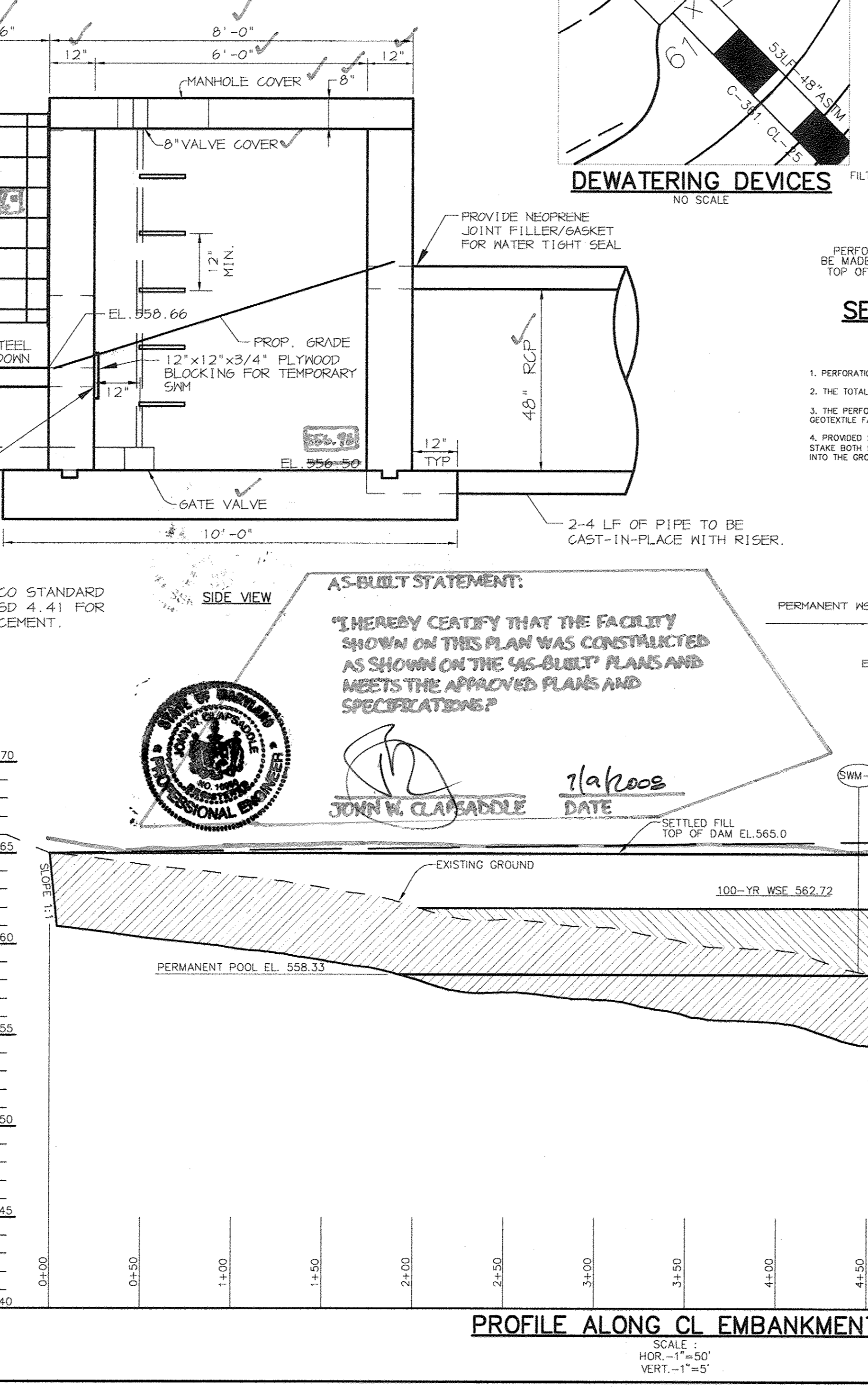
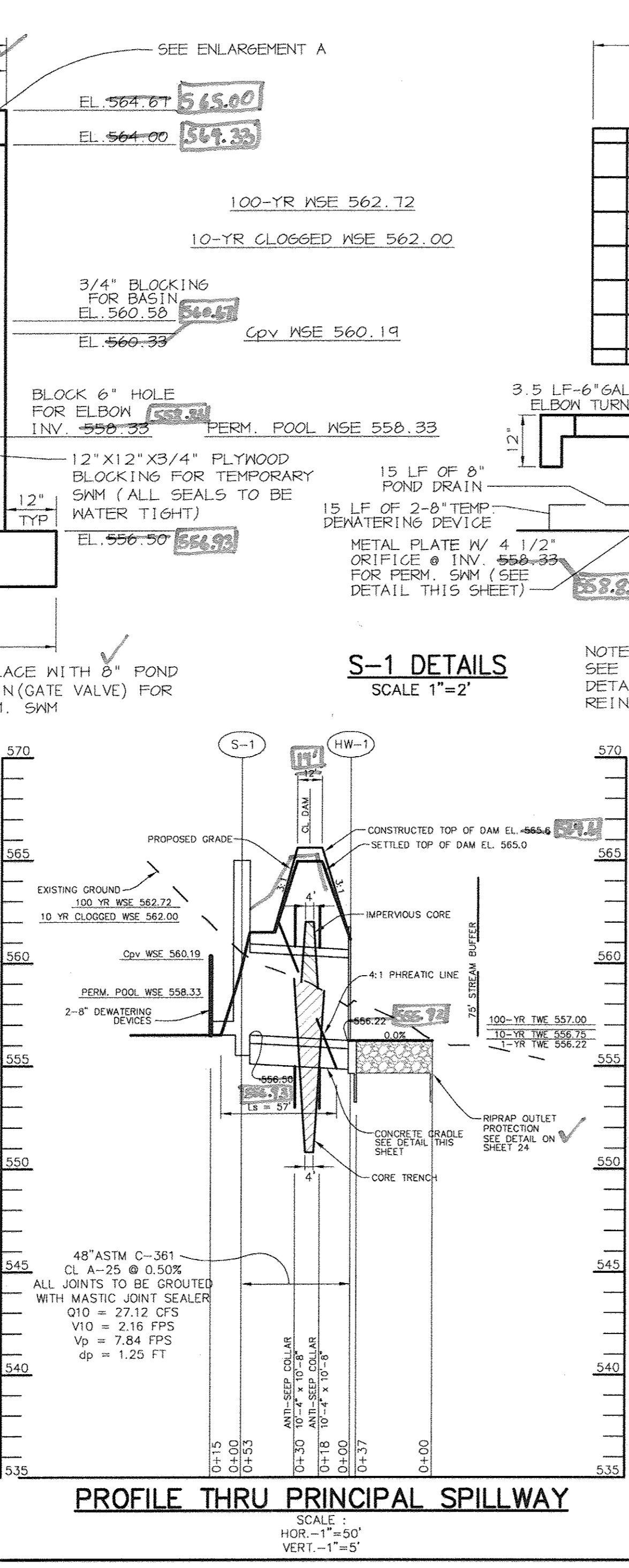


EMBANKMENT AND CORE TRENCH CONSTRUCTION

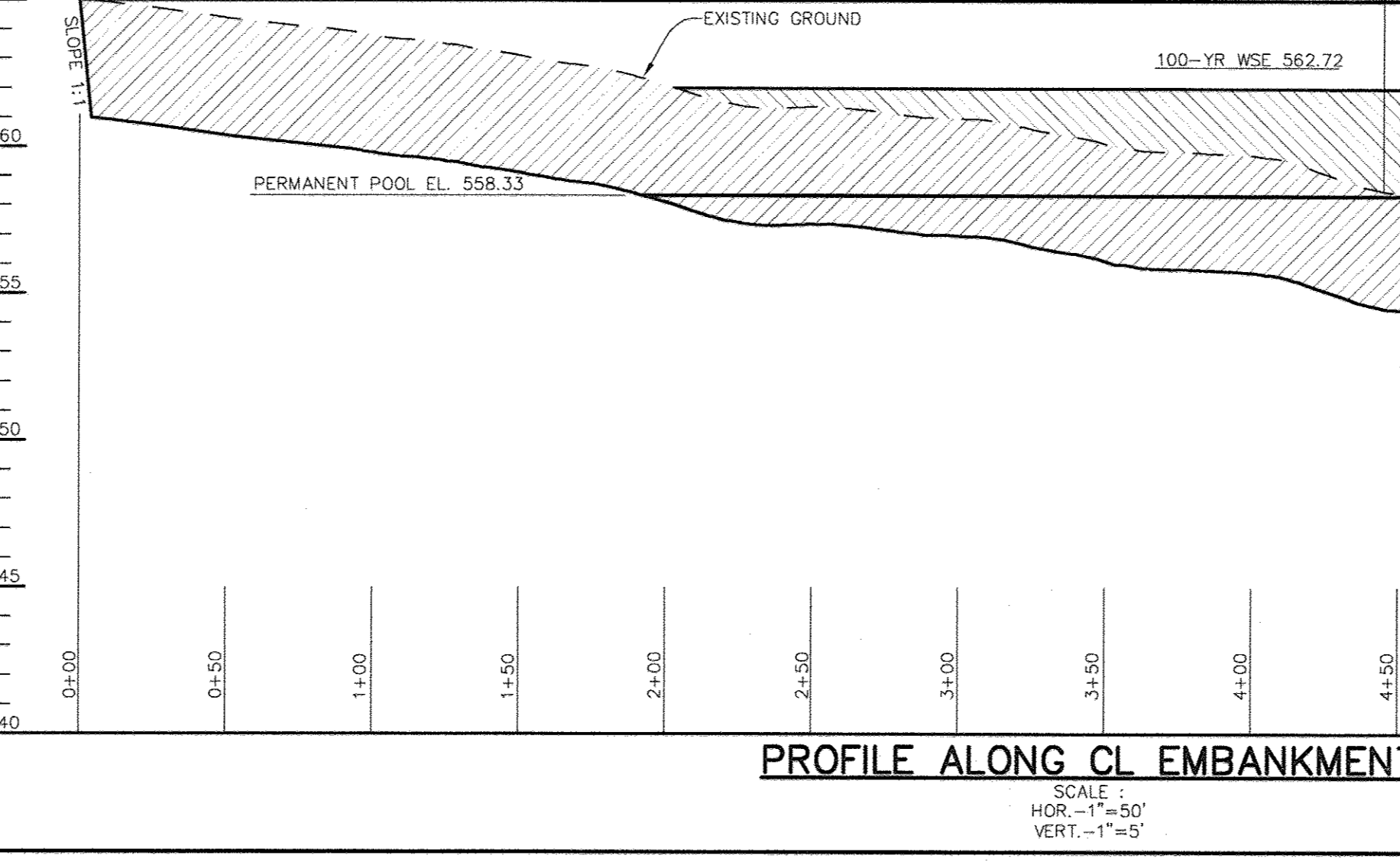
THE AREA OF THE PROPOSED SWM FACILITIES SHOULD BE STRIPPED OF TOPSOIL AND ANY OTHER UNSUITABLE MATERIALS FROM THE EMBANKMENT OF STRUCTURE AREAS IN ACCORDANCE WITH SOIL CONSERVATION GUIDELINES. AFTER STRIPPING OPERATIONS HAVE BEEN COMPLETED, THE EXPOSED SUBGRADE MATERIALS SHOULD BE PROOFROLLED WITH A LOADED DUMP TRUCK OR SIMILAR EQUIPMENT IN THE PRESENCE OF A GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE UTILIZING A DYNAMIC CONE PENETROMETER. ANY EXCESSIVELY SOFT OR LOOSE MATERIALS IDENTIFIED BY PROOFROLLING OR PENETROMETER TESTING SHOULD BE EXCAVATED TO SUITABLE FIRM SOIL, AND THEN GRADES RE-ESTABLISHED BY BACKFILLING WITH SUITABLE SOIL.

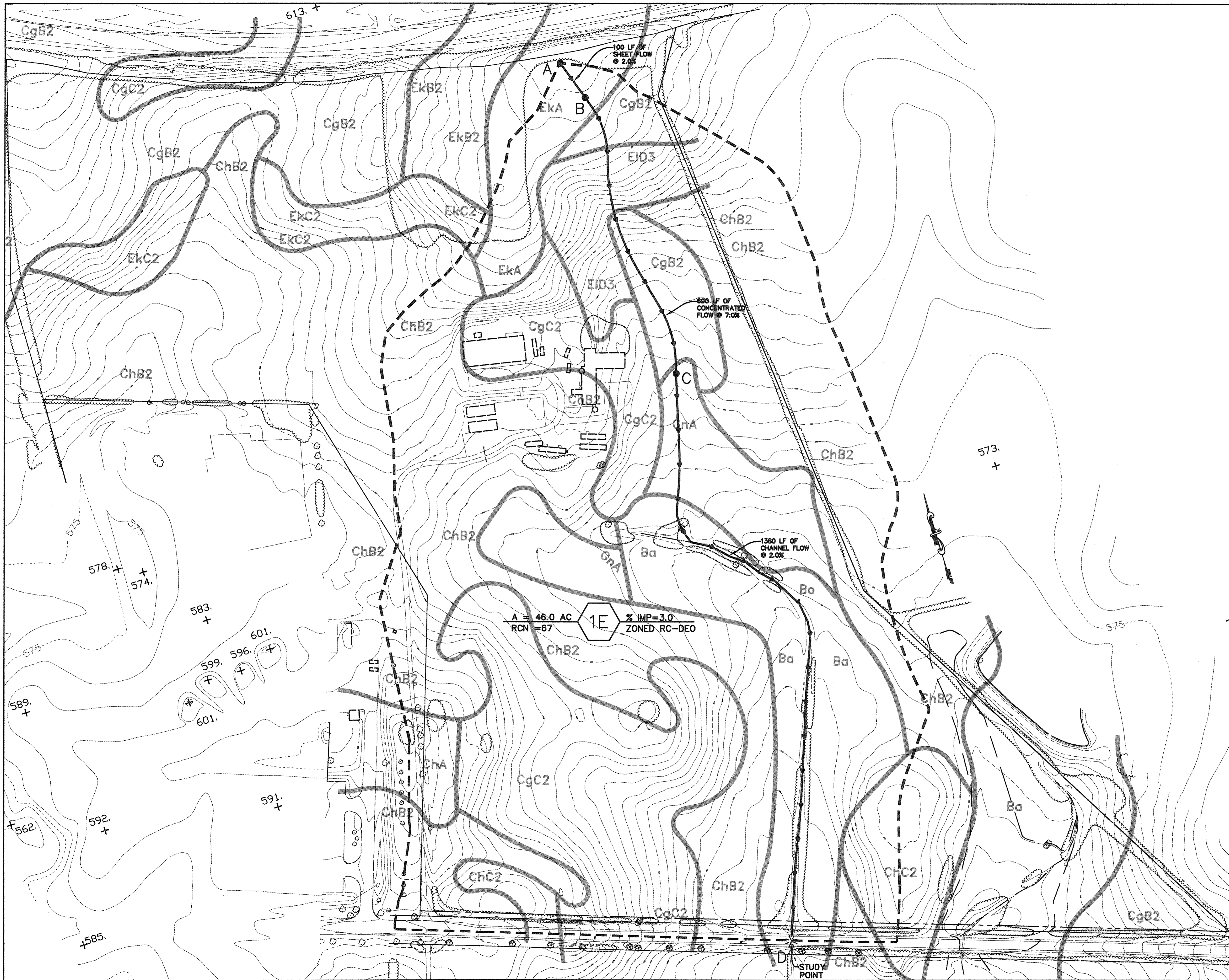
A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHOULD BE PRESENT TO MONITOR PLACEMENT AND COMPACTION OF FILL FOR THE EMBANKMENT AND CUT-OFF TRENCH. IN ACCORDANCE WITH NRCS-MD CODE NO. 37B, SOILS CONSIDERED SUITABLE FOR THE CENTER OF EMBANKMENT AND CUT-OFF TRENCH SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE.

IT IS OUR PROFESSIONAL OPINION THAT IN ADDITION TO THE SOIL MATERIALS DESCRIBED ABOVE A FINE-GRAINED SOIL INCLUDING SILT (ML) WITH A PLASTICITY INDEX OF 10 OR MORE CAN BE UTILIZED FOR THE CENTER OF THE EMBANKMENT AND CORE TRENCH. ALL FILL MATERIALS MUST BE PLACED AND COMPACTED IN ACCORDANCE WITH NRCS-MD CODE NO. 37B SPECIFICATIONS.



AS-BUILT STATEMENT:
 "I HEREBY CERTIFY THAT THE FACILITY SHOWN ON THIS PLAN WAS CONSTRUCTED AS SHOWN ON THE 'AS-BUILT' PLANS AND MEETS THE APPROVED PLANS AND SPECIFICATIONS."
 JOHN W. CLAFADDLE
 DATE: 7/14/03





LEGEND

SOIL LINES

AREA DESIGNATION

DRAINAGE AREA LINES

TIME OF CONCENTRATION PATH



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 6-8-18

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 8/22/03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR
 DATE: 8/22/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION M&J
 DATE: 8/22/03

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 8/22/03

11/9/17 REVISE OWNER, NAME + USE BY BET
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

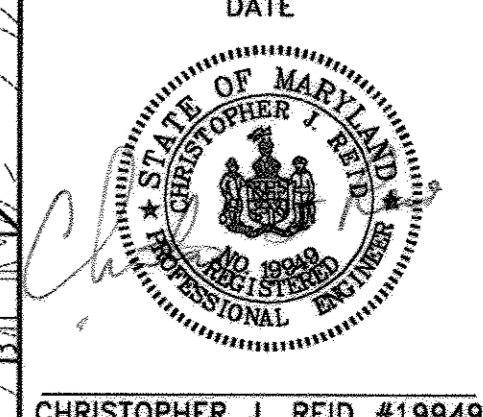
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
DRAINAGE AREA MAP EXISTING CONDITIONS

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

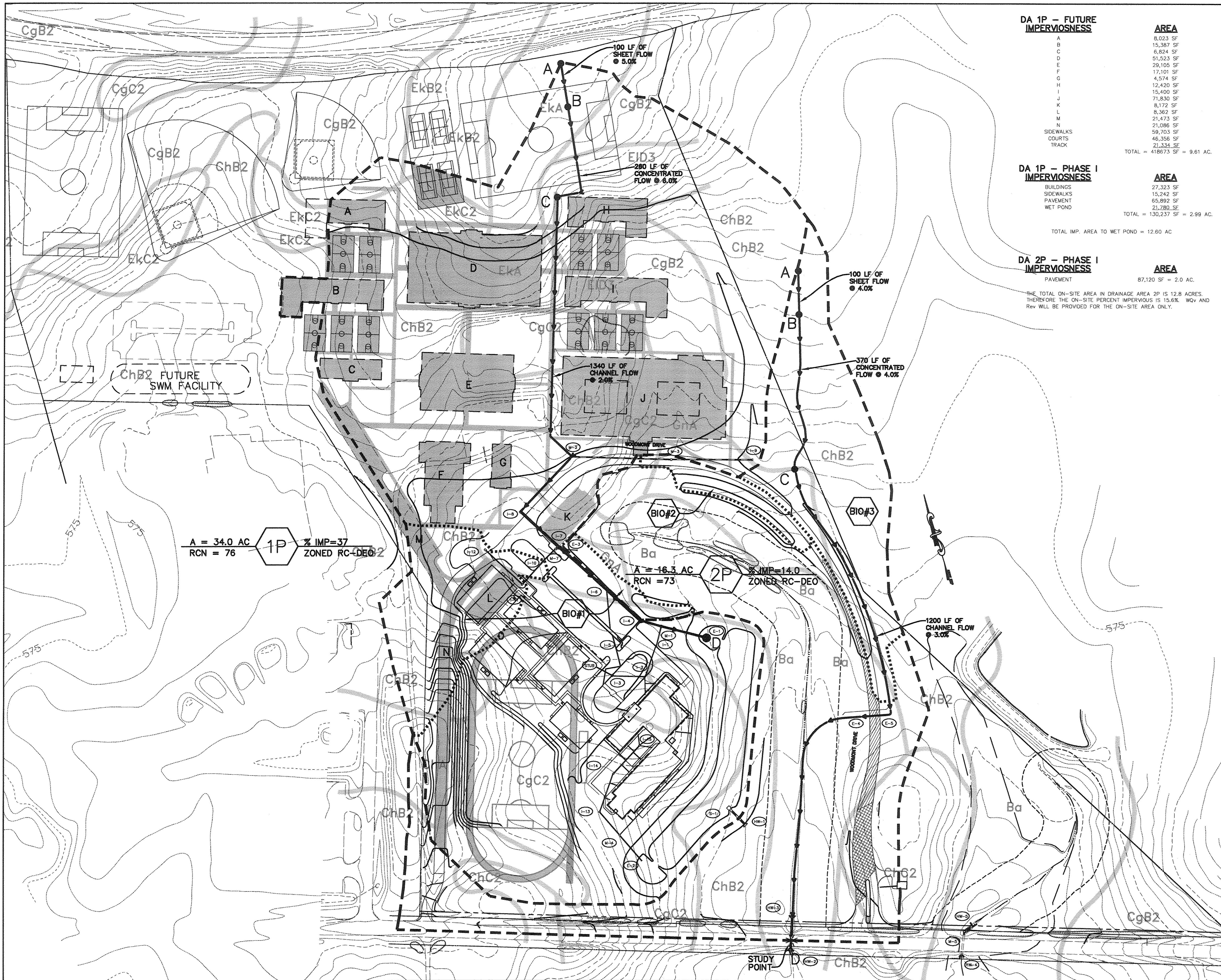
DATE: 7-28-03

DESIGNED BY: C.J.R.
 DRAWN BY: DAM
 PROJECT NO: 22516/2-0/ENGR DAEX1
 DATE: JULY 28, 2003
 SCALE: 1" = 100'
 DRAWING NO. 26 OF 51



CHRISTOPHER J. REID #19949
 SDP-03-90

P:\projects\25162-0\Engr\Plans\DAEX1.dwg, Layout1, 07/28/2003 02:12:42 PM, HP1060C_Draft.pcs, Arch D - 24 x 36 in. (landscape), 1:1



DA 1P - FUTURE IMPERVIOUSNESS

AREA	AREA
A	8,023 SF
B	15,387 SF
C	6,824 SF
D	51,523 SF
E	29,105 SF
F	17,101 SF
G	4,574 SF
H	12,420 SF
I	15,400 SF
J	71,830 SF
K	8,172 SF
L	8,362 SF
M	21,473 SF
N	21,086 SF
SIDEWALKS	59,703 SF
COURTS	46,356 SF
TRACK	21,334 SF
TOTAL	= 418,673 SF = 9.61 AC.

DA 1P - PHASE I IMPERVIOUSNESS

AREA	AREA
BUILDINGS	27,323 SF
SIDEWALKS	15,242 SF
PAVEMENT	65,892 SF
WET POND	21,280 SF
TOTAL	= 130,237 SF = 2.99 AC.

TOTAL IMP. AREA TO WET POND = 12.60 AC

DA 2P - PHASE I IMPERVIOUSNESS

AREA	AREA
PAVEMENT	87,120 SF = 2.0 AC.

THE TOTAL ON-SITE AREA IN DRAINAGE AREA 2P IS 12.8 ACRES. THEREFORE THE ON-SITE PERCENT IMPERVIOUS IS 15.6%. WQV AND Rev WILL BE PROVIDED FOR THE ON-SITE AREA ONLY.

LEGEND

- SOIL LINES
- AREA DESIGNATION
- DRAINAGE AREA DIVIDES
- TIME OF CONCENTRATION PATH
- DRAINAGE AREA DIVIDES FOR BIORETENTION FACILITIES
- FUTURE IMPERVIOUS AREAS
- IMPERVIOUS AREA FOR THE SHEET FLOW TO BUFFER CREDIT
- IMPERVIOUS AREA FOR THE NON-ROOFTOP DISCONNECT CREDIT

BIORETENTION SUMMARY TABLE

BIORETENTION #	DRAINAGE AREA	SWM CRITERIA
1	2.6 AC.	Rev ONLY
2	0.52 AC.	WQV & Rev
3	3.8 AC.	WQV & Rev

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-16

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

[Signature]
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

[Signature]
 DIRECTOR

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature]
 CHIEF, DIVISION OF LAND DEVELOPMENT

11-8-17 / REVISE OWNER NAME & USE BY BEI

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
**DRAINAGE AREA MAP
 ULTIMATE CONDITIONS**

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

7-28-03
 DATE

DESIGNED BY: C.J.R.
 DRAWN BY: DAM

PROJECT NO: 22516/2-0/ENGR DAPR1
 DATE: JULY 28, 2003
 SCALE: 1" = 100'

CHRISTOPHER J. REID #19949
 SDP-03-90
 DRAWING NO. 27 OF 51

MATCH LINE SEE SHEET 30

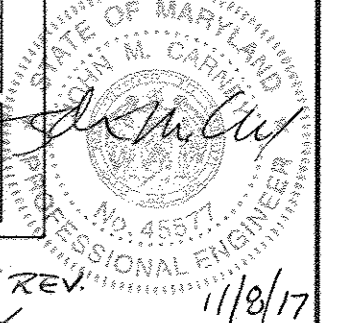
MATCH LINE SEE SHEET 31



LEGEND

EX. TREELINE	[Symbol]
PROP. TREELINE	[Symbol]
PROPERTY LINE	[Symbol]
WETLANDS AND 25' BUFFER	[Symbol]
FEDERAL STREAM AND 75' BUFFER	[Symbol]
CONTOUR LINES	[Symbol]
EX. BUILDING	[Symbol]
PROP. SHADE TREE	[Symbol]
PROP. EVERGREEN TREE	[Symbol]
PROP. ORNAMENTAL TREE	[Symbol]
PROP. SHRUBS	[Symbol]
LANDSCAPE REQUIREMENT	[Symbol]
BIORETENTION PLANTING	[Symbol]
SW POND PLANTING	[Symbol]
AMENITY PLANTING	[Symbol]
PERIMETER LANDSCAPE EDGE LIMITS	[Symbol]
PERIMETER LANDSCAPE EDGE CONTINUES	[Symbol]
CREDITED LANDSCAPE ISLAND	[Symbol]
RESTORATION AREA	[Symbol]
PROPOSED SEPTIC FIELD	[Symbol]

Professional Certification: I hereby certify that these drawings were prepared or approved by me, and I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577. Expiration Date: 6-8-17



MATCH LINE SEE SHEET 29

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
David T. Dows 8/22/03
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Frank D. Wight 2/12/05
 DIRECTOR DATE

Mark J. ... 8/14/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Christy Hamstra 8/22/03
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11.8.17 1 REVISE OWNER NAME - USE BY BET
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

PHRA
 7-20-03
 DATE

DESIGNED BY: K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO: 22516/2-0/ENGR L2011ND
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 28 OF 51

DAVID T. DOWS 8830
 SDP-03-90

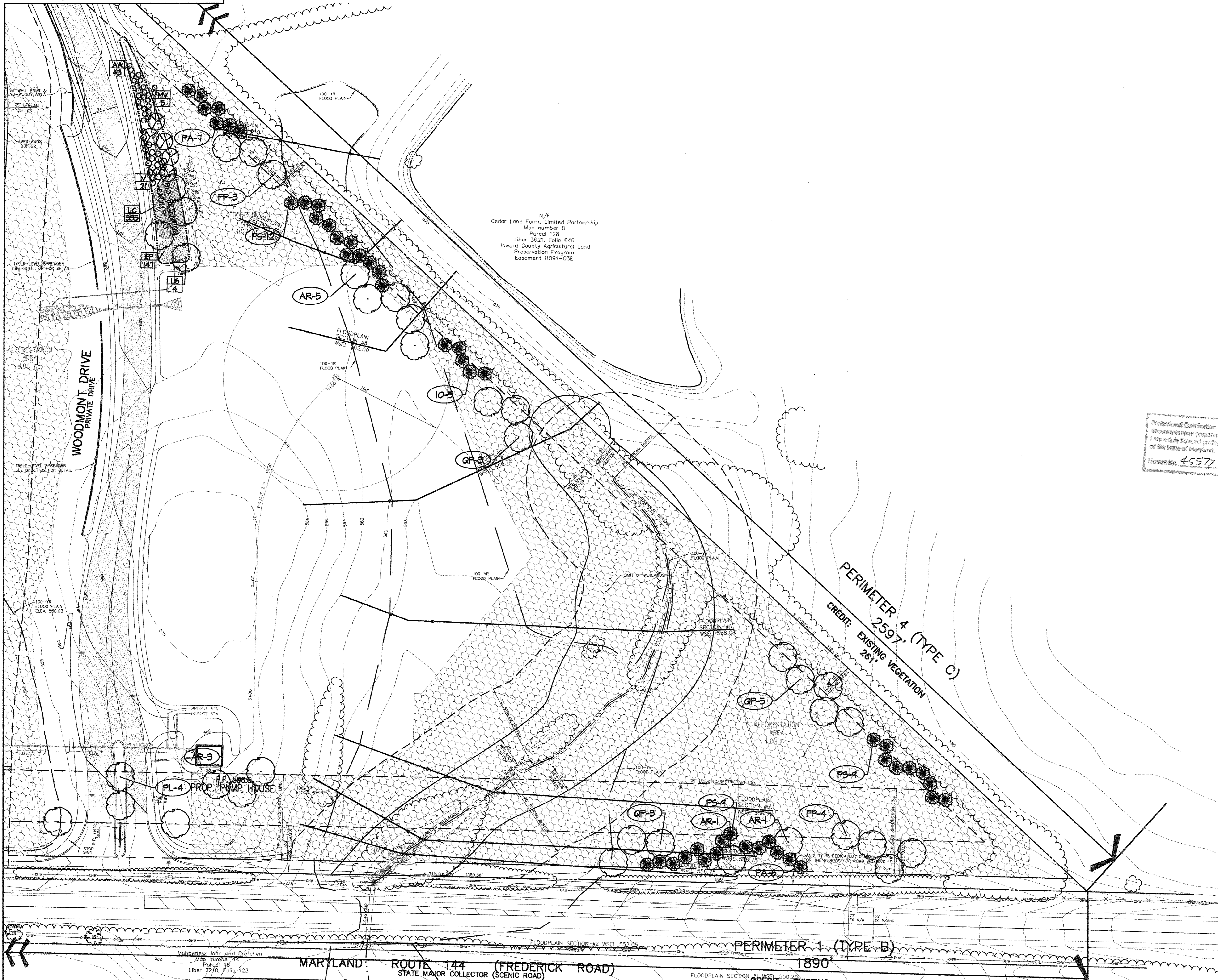
N Howard County, Maryland
 Map number 8
 Parcel 68
 Liber 847, Folio 602

MoBberley, John and Gretche CREDIT: EXISTING VEGETATION
 Map number 14
 Parcel 46
 Liber 2210, Folio 123

P:\project\22516-2-0\Engr\Plans\L2011ND.dwg, Layout1, 07/24/2003 07:31:28 AM, HP1050C_Draft.pc3, Acad D - 24 x 36 in. (landscape), 1:1

MATCH LINE SEE SHEET 31

MATCH LINE SEE SHEET 28



N/F
Cedar Lane Farm, Limited Partnership
Map number 8
Parcel 128
Liber 3621, Folio 646
Howard County Agricultural Land
Preservation Program
Easement H091-03E

LEGEND	
EX. TREELINE	
PROP. TREELINE	
PROPERTY LINE	
WETLANDS AND 25' BUFFER	
PERENNIAL STREAM AND 75' BUFFER	
CONTOUR LINES	
EX. BUILDING	
PROP. SHADE TREE	
PROP. EVERGREEN TREE	
PROP. ORNAMENTAL TREE	
PROP. SHRUBS	
LANDSCAPE REQUIREMENT	
BIORESTORATION PLANTING	
SPR. POND PLANTING	
AMENITY PLANTING	
PERIMETER LANDSCAPE EDGE LIMITS	
PERIMETER LANDSCAPE EDGE CONTINUES	
CREDITED LANDSCAPE ISLAND	
RESTORATION AREA	
PROPOSED SEPTIC FIELD	

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577 Expiration Date: 6-8-18



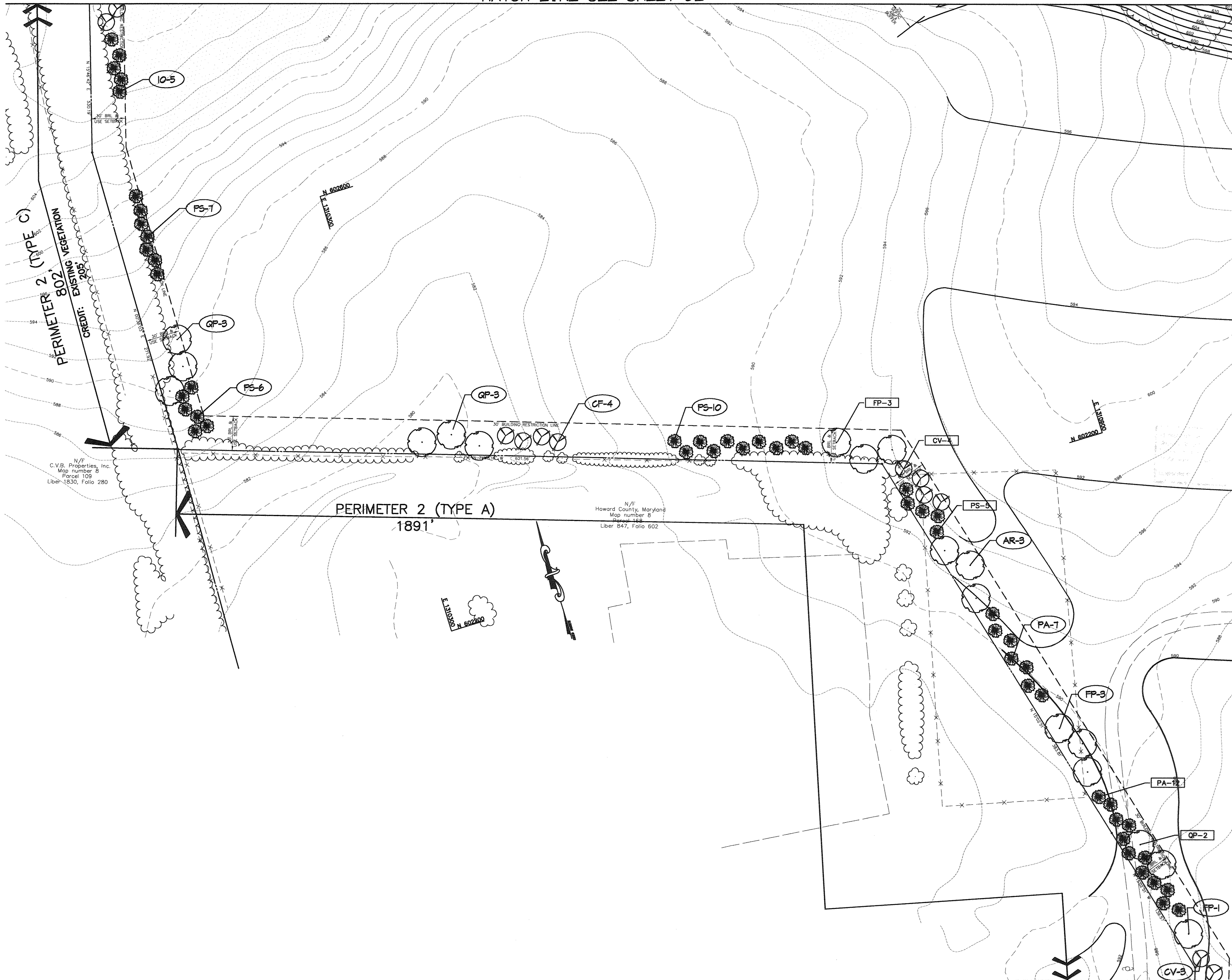
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>[Signature]</i>	DATE
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i>	DATE
DIRECTOR	
<i>[Signature]</i>	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION M&T	
<i>[Signature]</i>	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	
11.8.17 REVISE OWNER, NAME + USE BY SET	
DATE NO.	REVISION
OWNER / DEVELOPER	
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT	
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
LANDSCAPE PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
PHRA	
7-29-03 DATE	
DESIGNED BY: K.L.S.	
DRAWN BY: K.L.S.	
PROJECT NO. 22516/2-0/ENGR L200LND	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 29 OF 51	
<i>[Signature]</i> DAVID T. DOWS #850	

MARYLAND: ROUTE 144 (FREDERICK ROAD)
STATE MAJOR COLLECTOR (SCENIC ROAD)

PERIMETER 1 (TYPE B)
1890'
CREDIT: EXISTING VEGETATION
92'

PERIMETER 4 (TYPE C)
2597'
CREDIT: EXISTING VEGETATION
281'

MATCH LINE SEE SHEET 32



LEGEND	
EX. TREELINE	
PROP. TREELINE	
PROPERTY LINE	
WETLANDS AND 25' BUFFER	
PERENNIAL STREAM AND 75' BUFFER	
CONTOUR LINES	
EX. BUILDING	
PROP. SHADE TREE	
PROP. EVERGREEN TREE	
PROP. ORNAMENTAL TREE	
PROP. SHRUBS	
LANDSCAPE REQUIREMENT	
BIORETENTION PLANTING	
SWI. POND PLANTING	
AMENITY PLANTING	
PERIMETER LANDSCAPE EDGE LIMITS	
PERIMETER LANDSCAPE EDGE CONTINUES	
CREATED LANDSCAPE ISLAND	
RESTORATION AREA	
PROPOSED SEPTIC FIELD	

MATCH LINE SEE SHEET 31

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date 6/8/17
 FOR SET REV. ONLY



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
David T. Dows 8/22/03
 COUNTY/HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Mark A. Light 8/20/03
 DIRECTOR DATE

[Signature] 8/20/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MWT DATE

Cindy Hamata 8/20/03
 CHIEF, DIVISION OF LAND DEVELOPMENT HB DATE

11.3.17.1 REVIS OWNER NAME + USE ISY ISBT
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

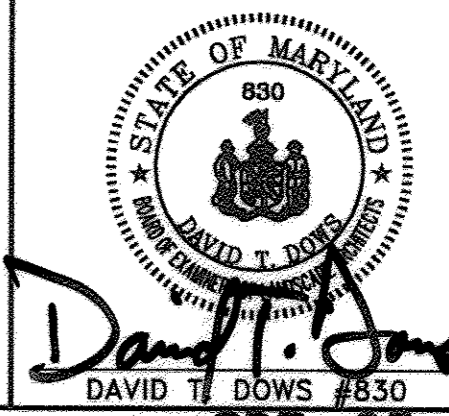
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

7-24-03
 DATE

DESIGNED BY: K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO: 22516/2-0/ENGR
 L203LND
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 30 OF 51



MATCH LINE SEE SHEET 28

MATCH LINE SEE SHEET 33



LEGEND	
EX. TREELINE	
PROP. TREELINE	
PROPERTY LINE	
WETLANDS AND 25' BUFFER	
PERMANENT STREAM AND 75' BUFFER	
CONTOUR LINES	
EX. BUILDING	
PROP. SHADE TREE	
PROP. EVERGREEN TREE	
PROP. ORNAMENTAL TREE	
PROP. SHRUBS	
LANDSCAPE RESTOREMENT	
BIORETENTION PLANTING	
SMALL PLANTING	
AMENITY PLANTING	
PERIMETER LANDSCAPE EDGE LIMITS	
PERIMETER LANDSCAPE EDGE CONTINUES	
CREDITED LANDSCAPE ISLAND	
REFORESTATION AREA	
PROPOSED SEPTIC FIELD	

MATCH LINE SEE SHEET 30

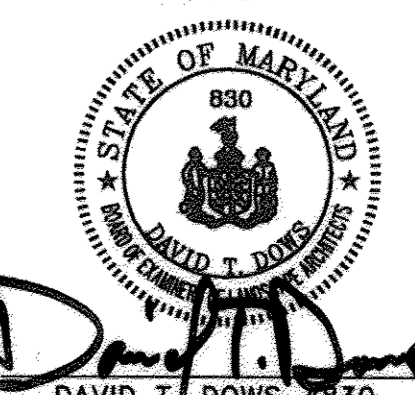
MATCH LINE SEE SHEET 28

MATCH LINE SEE SHEET 29

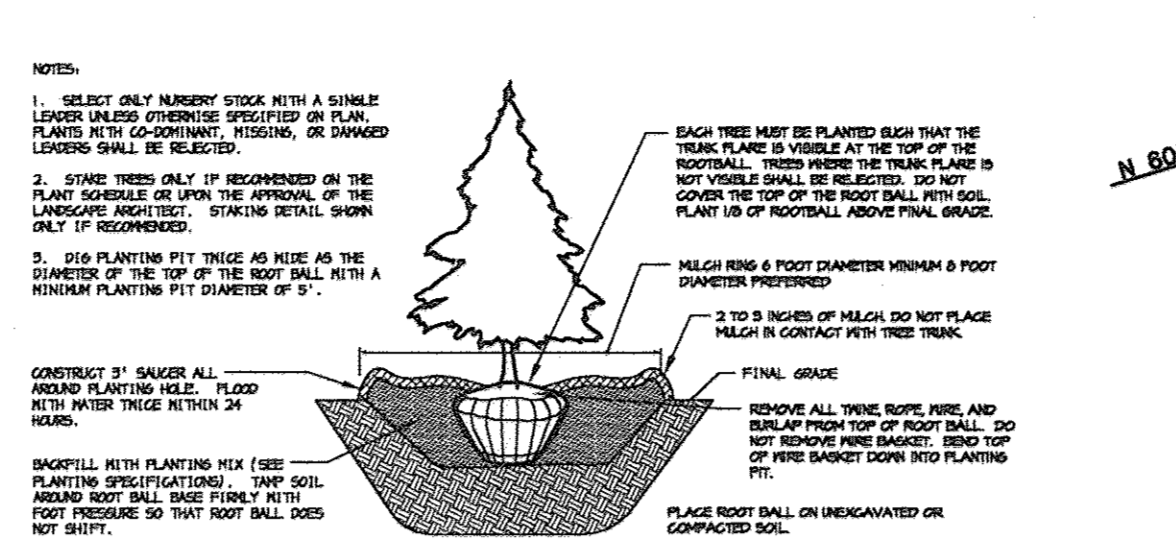
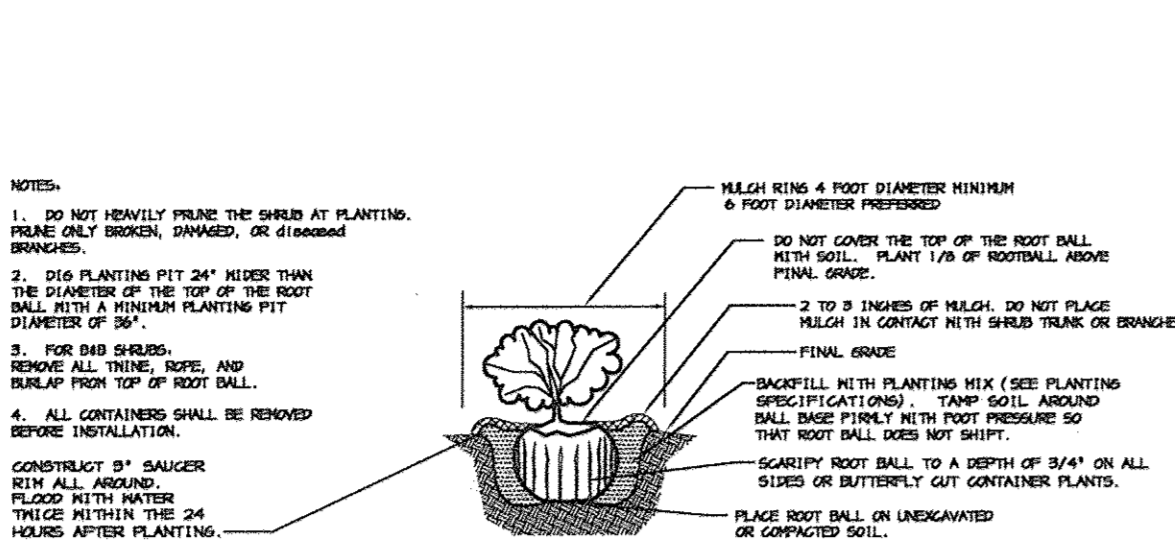
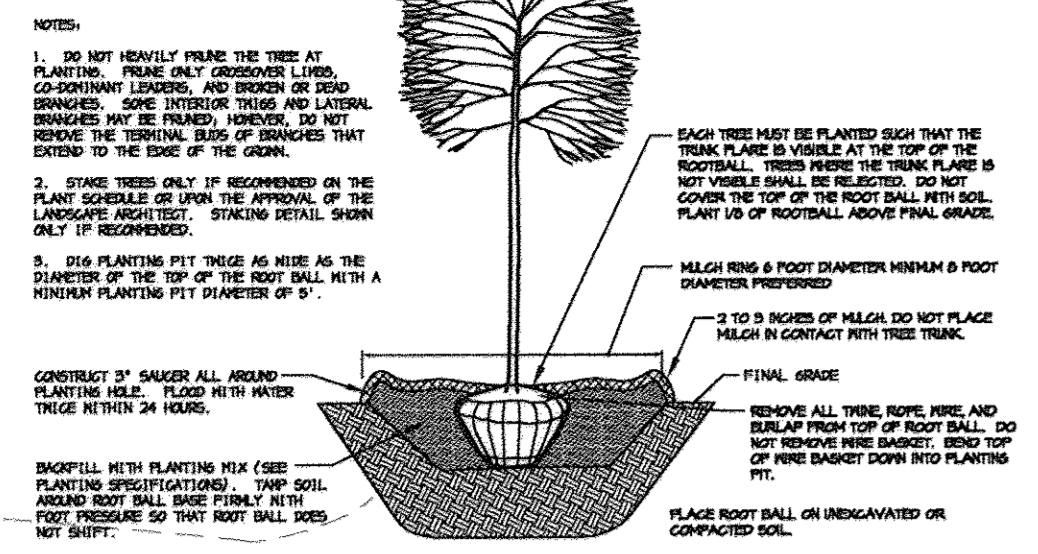
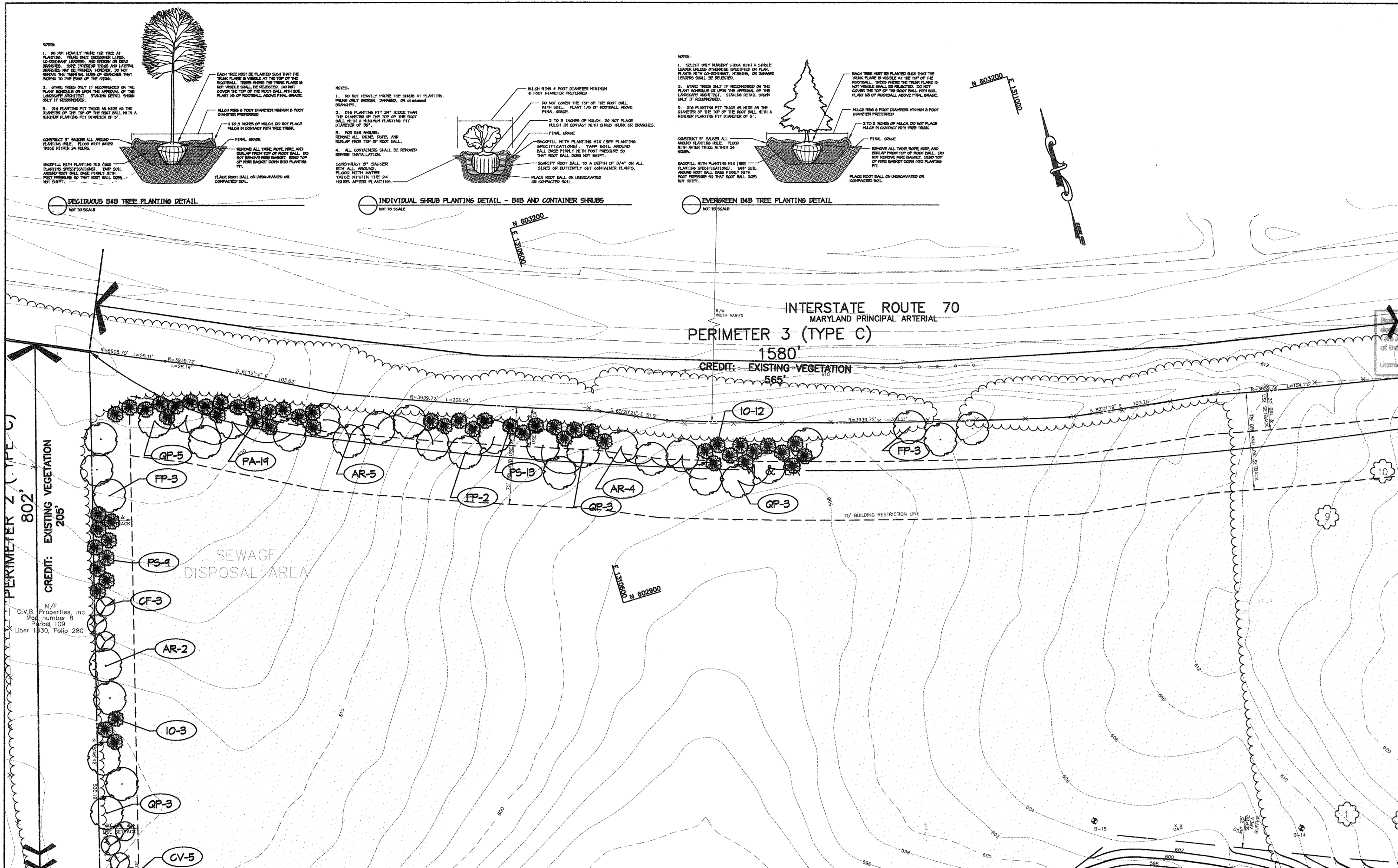
N/F
Cedar Lane Farm, Limited Partnership
Map number 8
Parcel 128
Liber 3621, Folio 646
Howard County Agricultural Land
Preservation Program
Easement H091-03E

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 6-8-17
 For BEI REV. ONLY
 4/13/17

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS <i>David T. Dows</i> 8-22-03 COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. <i>Frank L. Wynn</i> 8/24/03 DIRECTOR DATE	
<i>John P. ...</i> 8/24/03 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	
<i>Cindy ...</i> 8/27/03 CHIEF, DIVISION OF LAND DEVELOPMENT DATE	
11.8.17	REVISE OWNER NAME USE BY BEI
DATE NO.	REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21725 14196 FREDERICK ROAD 301-725-0220	
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE LANDSCAPE PLAN	
Patton Harris Rust & Associates, PC Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
7-28-03	DATE
DESIGNED BY : K.L.S.	
DRAWN BY : K.L.S.	
PROJECT NO : 22516/2-0/ENGR L202LND	
DATE : JULY 28, 2003	
SCALE : 1" = 40'	
DRAWING NO. 31 OF 51	



SDP-03-90



LEGEND	
EX. TREELINE	[Symbol]
PROP. TREELINE	[Symbol]
PROPERTY LINE	[Symbol]
NETLANDS AND 25' BUFFER	[Symbol]
PERENNIAL STREAM AND 75' BUFFER	[Symbol]
CONTOUR LINES	[Symbol]
EX. BUILDING	[Symbol]
PROP. SHADE TREE	[Symbol]
PROP. EVERGREEN TREE	[Symbol]
PROP. ORNAMENTAL TREE	[Symbol]
PROP. SHRUBS	[Symbol]
LANDSCAPE REQUIREMENT	[Symbol]
BIORETENTION PLANTING	[Symbol]
SANITARY PLANTING	[Symbol]
AVENUE PLANTING	[Symbol]
PERIMETER LANDSCAPE EDGE LIMITS	[Symbol]
PERIMETER LANDSCAPE EDGE CONTINUES	[Symbol]
CREDITED LANDSCAPE ISLAND	[Symbol]
REFORESTATION AREA	[Symbol]
PROPOSED SEPTIC FIELD	[Symbol]

Professional Certification. I hereby certify that these drawings 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. 45577, Expiration Date: 6-3-18
 David M. Dows, P.E.
 PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 No. 45577
 11/6/17

PLANTING SPECIFICATIONS

- Plants, related material, and operations shall meet the detailed description, as given on the plans and as described herein. Where discrepancies exist between Standards & Guidelines referenced within these specifications and the Howard County Landscape Manual, the latter takes precedence.
- All plant material, unless otherwise specified, that is not nursery grown, uniformly branched, does not have a vigorous root system, and does not conform to the most recent edition of the American Association of Nurserymen (AAN) Standards will be rejected. Plant material that is not healthy, vigorous, free from defects, decay, disfiguring roots, sunscald injuries, abrasions of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable displacements will be rejected. Plant material that is weak or which has been out back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will be rejected. All B & B plants shall be freshly dug; no healed-in plants or plants from cold storage will be accepted.
- Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to the most recent edition of the "Landscape Specification Guidelines by the Landscape Contractors Association of MD, DC, & VA", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects.
- Contractor shall guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section on the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.
- Contractor shall be responsible for notifying all relevant and appropriate utility companies, utility contractors, and "Miss Utility" a minimum of 48 hours prior to the beginning of any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Major changes will require the approval of the landscape architect. Damage to existing structures and utilities shall be repaired at the expense of the contractor.
- Protection of existing vegetation to remain shall be accomplished via the temporary installation of 4 foot high snow fence at the drip line, see detail.
- Contractor is responsible for installing all material in the proper planting season for each plant type. All planting is to be completed within growing season of completion of site construction. Do not plant Pinus strobus or Xyprassacyparis leylandii between November 15 and March 15. Landscape plants are not to be installed before site is graded to final grade.
- Contractor to regrade, fine grade, sod, hydroseed and straw mulch all areas disturbed by their work.
- Bid shall be based on actual site conditions. No extra payment shall be made for work arising from actual site conditions differing from those indicated on drawings and specifications.

- Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence. Where discrepancies on the plan exist between the symbols and the callout leader, the number of symbols take precedence.
- All shrubs and groundcover areas shall be planted in continuous planting beds, prepared as specified, unless otherwise indicated on plans. (See Specification 13). Beds to be mulched with minimum 2" and maximum 3" of composted, double-shredded hardwood mulch throughout.
- Positive drainage shall be maintained on planting beds (minimum 2 percent slope).
- Bed preparation shall be as follows: Till into a minimum depth of 6" 1 yard of Compro or Leafgro per 200 SF of planting bed, and 1 yard of topsoil per 100 SF of bed. Add 3 lbs of standard 5-10-5 fertilizer per cubic yard of planting mix and till. Ericaceous plants (Azaleas, Rhododendrons, etc.); top dress after planting with iron sulfate or comparable product according to package directions. Taxus baccata 'Repandens' (English weeping yews); Top dress after planting with 1/4 to 1/2 cup lime each.
- Planting mix: For trees not in a prepared bed, mix 50% Compro or Leafgro with 50% soil from tree hole to use as backfill, see tree planting detail.
- Need & insect control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. For tree planting, apply a pre-emergent on top of soil and root ball before mulching. Caution: For areas to be planted with a ground cover, be sure to carefully check the chemical used to assure its adaptability to the specific groundcover to be treated. Maintain the mulch weed-free for the extent of the warranty period. Under no circumstances is a pesticide containing chlorpyrifos to be used as a means of pest control.
- Water: All plant material planted shall be watered thoroughly the day of planting. All plant material not yet planted shall be properly protected from drying out until planted. At a minimum, water unplanted plant material daily and as necessary to avoid desiccation.
- Pruning: Do not heavily prune trees and shrubs at planting. Prune only broken, dead, or diseased branches.
- All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded, grass seed planted, and covered with straw mulch.

MATCH LINE SEE SHEET 30

MATCH LINE SEE SHEET 33

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY/HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: BY HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11-8-17 REVISE OWNER NAME & USE BY BEST DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 CODDYSVILLE, MD 21725
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

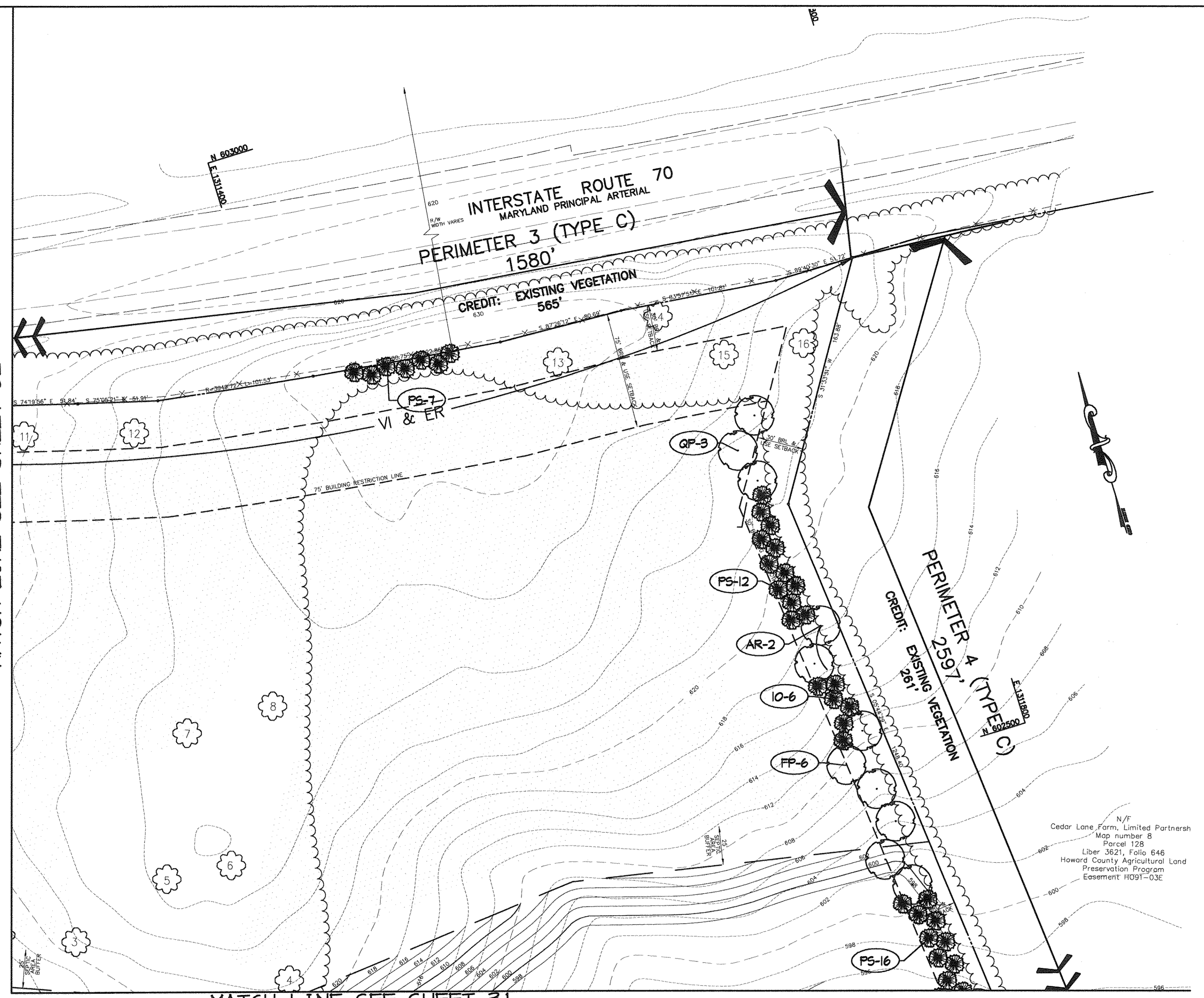
TITLE
LANDSCAPE PLAN

Patton Harris Rust & Associates, PC
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO: 22516/2-0/ENGR L205LND
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 32 OF 51

DAVID T. DOWS #830
 SDP-03-90

MATCH LINE SEE SHEET 32



MATCH LINE SEE SHEET 31

KEY	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	SPACING	ZONE*
LS	12	LIQUIDAMBAR STYRACIFLUA SHEET GUM	2.5'-3' GAL.	B4B	PLANT AS SHOWN	...
MV	4	MAGNOLIA VIRGINIANA SWAMP MAGNOLIA	6'-8' HT.	B4B	PLANT AS SHOWN	...
AA	84	ARONIA ARBUTIFOLIA RED CHOKEBERRY	2.5'-3' HT.	CONT.	PLANT AS SHOWN	...
IV	84	ITEA VIRGINICA 'HENRY'S GARNET' VIRGINIA SWEETSPICE	2.5'-3' HT.	CONT.	PLANT AS SHOWN	...
EP	325	EUPATORIUM PURPUREA JOE PYE WEED	1 GAL.	CONT.	24" SPACING
IB	427	IRIS VERSICOLOR 'BLUE FLAG' IRIS	1 GAL.	CONT.	24" SPACING	(1, 2), 3
LG	502	LOBELIA CARDINALIS CARDINAL FLOWER	1 GAL.	CONT.	24" SPACING	1, (2, 3), 4

BIORETENTION PLANT LIST NOTES:
 * HYDROLOGIC ZONES ACCORDING TO APPENDIX A OF THE MARYLAND MODEL STORMWATER MANAGEMENT ORDINANCE JULY 2000.
 ** ALSO KNOWN CAREX STRICTA 'AUREA'
 *** KNOWN TO TOLERATE INUNDATION AS WELL AS DRY AREAS ACCORDING TO DIRR, MICHAEL A., MANUAL OF WOODY LANDSCAPE PLANTS
 **** COMMONLY USED BIORETENTION SPECIES ACCORDING TO TABLE A.4 IN APPENDIX A OF THE MARYLAND MODEL STORMWATER MANAGEMENT ORDINANCE JULY 2000.

KEY	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	SPACING	ZONE
QM	13	QUERCUS MICHALXII SWAMP CHESTNUT OAK	2.5'-3' GAL.	B4B	PLANT AS SHOWN	1, (2, 3, 4, 5)
TD	8	TAXODIUM DISTICHUM BALD CYPRESS	2.5'-3' GAL.	B4B	PLANT AS SHOWN	(1, 2), 3
CO	36	CEPHALANTHUS OCCIDENTALIS COMMON BUTTONBUSH	2.5'-3' HT.	CONT.	PLANT AS SHOWN	(1, 2), 3
IL	23	ITEA LAEVIGATA WINTERBERRY HOLLY	2.5'-3' HT.	CONT.	PLANT AS SHOWN	(1, 2), 3
LA	67	LEUCOTHOE AXILLARIS COASTAL LEUCOTHOE	18-24" SP.	CONT.	24" SPACING	(1, 2, 3, 4), 5
IB	625	IRIS VERSICOLOR 'BLUE FLAG' IRIS	1 GAL.	CONT.	24" SPACING	(1, 2), 3
LK	817	LOBELIA KALMI BROOK LOBELIA	1 GAL.	CONT.	24" SPACING	(1, 2), 3
HU	466	HYDROCOYLE UMBELLETA PENNYCURT	1 GAL.	CONT.	12" SPACING	(1, 2), 3

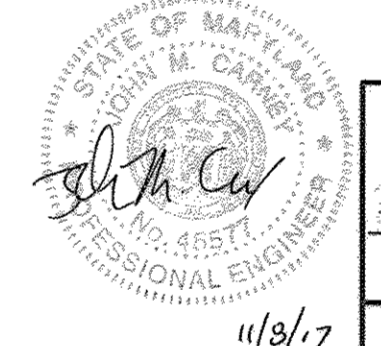
SWM PLANT LIST NOTES:
 * HYDROLOGIC ZONES ACCORDING TO APPENDIX A OF THE MARYLAND MODEL STORMWATER MANAGEMENT ORDINANCE JULY 2000.

SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
AR	1	Acer rubrum 'Red Sunset' Red Sunset Red Maple	2.5'-3' cal.	B4B	Plant as shown
FP	7	Fraxinus pennsylvanica 'Summit' Summit Green Ash	2.5'-3' cal.	B4B	Plant as shown
QP	6	Quercus phellos Willow Oak	2.5'-3' cal.	B4B	Plant as shown
PA	17	Pinus strobus Norway Spruce	6'-8' ht.	B4B	Plant as shown
PS	16	Pinus strobus Eastern White Pine	6'-8' ht.	B4B	Plant as shown
PK	7	Prunus pennsylvanica 'Kanzan' Kanzan Cherry	1.5'-2' cal.	B4B	Plant as shown
GS	14	Gleditsia triacanthos v. 'Shademaster' Honeylocust	2.5'-3' cal.	B4B	Plant as shown

LEGEND

- EX. TREELINE
- PROP. TREELINE
- PROPERTY LINE
- WETLANDS AND 25' BUFFER
- PERENNIAL STREAM AND 75' BUFFER
- CONTOUR LINES
- EX. BUILDING
- PROP. SHADE TREE
- PROP. EVERGREEN TREE
- PROP. ORNAMENTAL TREE
- PROP. SHRUBS
- LANDSCAPE REQUIREMENT
- BIORETENTION PLANTING
- SWM POND PLANTING
- AMENITY PLANTING
- PERIMETER LANDSCAPE EDGE LIMITS
- PERIMETER LANDSCAPE EDGE CONTINUOUS
- CREDITED LANDSCAPE ISLAND
- RESTORATION AREA
- PROPOSED SEPTIC FIELD

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-18



- 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.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$105,750.
 175 SHADE TREES @ \$300 = \$52,500
 54 ORNAMENTAL TREES @ \$150 = \$8,100
 321 EVERGREEN TREES @ \$150 = \$48,150
 0 SHRUBS @ \$30 = \$0
 - THIS PLAN SHOWS REQUIRED PERIMETER LANDSCAPING FOR PHASE 1 AND ALL FUTURE PHASES OF DEVELOPMENT AT WOODMONT ACADAMY. PARKING LOT AND STORMWATER MANAGEMENT LANDSCAPING ARE PROVIDED FOR PHASE 1 ONLY. FUTURE PHASES WILL BE REQUIRED TO PROVIDE PARKING LOT AND STORMWATER MANAGEMENT LANDSCAPING AS NEEDED TO COMPLY WITH COUNTY REGULATIONS.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
 - ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE 'USA STANDARD FOR NURSERY STOCK', LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF 'LANDSCAPE SPECIFICATION GUIDELINES' PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
 - AT THE TIME OF INSTALLATION, ALL SHRUBS AND OTHER PLANTINGS SHALL BE OF THE PROPER HEIGHT AND/OR SPREAD REQUIREMENTS IN ACCORDANCE WITH THIS PLAN AND THE HOWARD COUNTY LANDSCAPE MANUAL.
 - NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS LANDSCAPE PLAN MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL 'REDLINE REVISION' TO THE SITE DEVELOPMENT PLAN(S) AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.

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 YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

DATE: 7-14-03
 SIGNATURE: [Signature]
 DATE:

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 4/22/03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR: [Signature]
 DATE: 4/22/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 5/2/02

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 5/2/02

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21725
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE PLAN

Patton Harris Rust & Associates, PC
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: K.L.S.
 PROJECT NO: 22516/2-0/ENGR L204LND
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 33 OF 51

SDP-03-90

PERIMETER	ADJACENT TO PERIMETER PROPERTIES		ADJACENT TO ROADWAYS	
	A	C	C	B
LANDSCAPE TYPE				
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	1841'	802'	2541'	1840'
CREDIT FOR EXISTING VEGETATION (YES/NO LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	YES 205'	YES 261'	YES 42'
CREDIT FOR MALL, FENCE, BERM OR DRIVE AISLE (YES/NO/LINEAR FEET)	NO	NO	NO	NO
LINEAR FEET REMAINING	1841'	597'	2336'	1798'
NUMBER OF PLANTS REQUIRED				
SHADE TREES	32	15	56	36
EVERGREEN TREES	-	30	117	25
SHRUBS	-	-	-	-
NUMBER OF PLANTS PROVIDED				
SHADE TREES	15	11	48	36
EVERGREEN TREES	24	30	117	45
SMALL FLOWERING TREES	10	8	20	25

SCHEDULE B - PARKING LOT INTERNAL LANDSCAPING	
PARKING LOT	1
NUMBER OF PARKING SPACES	48
NUMBER OF SHADE TREES REQUIRED (1/20 SPACES)	5
NUMBER OF TREES PROVIDED	5
SHADE TREES	-
OTHER TREES (2:1 SUBSTITUTION)	-
NUMBER OF ISLANDS PROVIDED	5

SCHEDULE D - STORMWATER MANAGEMENT PERIMETER LANDSCAPING		
S.W.M. POND PERIMETER	1	2
LANDSCAPE TYPE	B	B
LINEAR FEET OF TOTAL PERIMETER	±1,048'	±316'
CREDIT FOR EX. VEGETATION (NO OR YES & %)	NO	NO
CREDIT FOR EX. LANDSCAPING (NO OR YES & %)	NO	NO
LINEAR FEET OF REMAINING PERIMETER	1,048'	316'
NUMBER OF TREES REQUIRED:		
SHADE TREES	37	6
EVERGREEN TREES	46	8
NUMBER OF PLANTS PROVIDED		
SHADE TREES	24	6
EVERGREEN TREES	46	8
OTHER TREES (2:1 SUBSTITUTION, 50% MAX.)	16	0

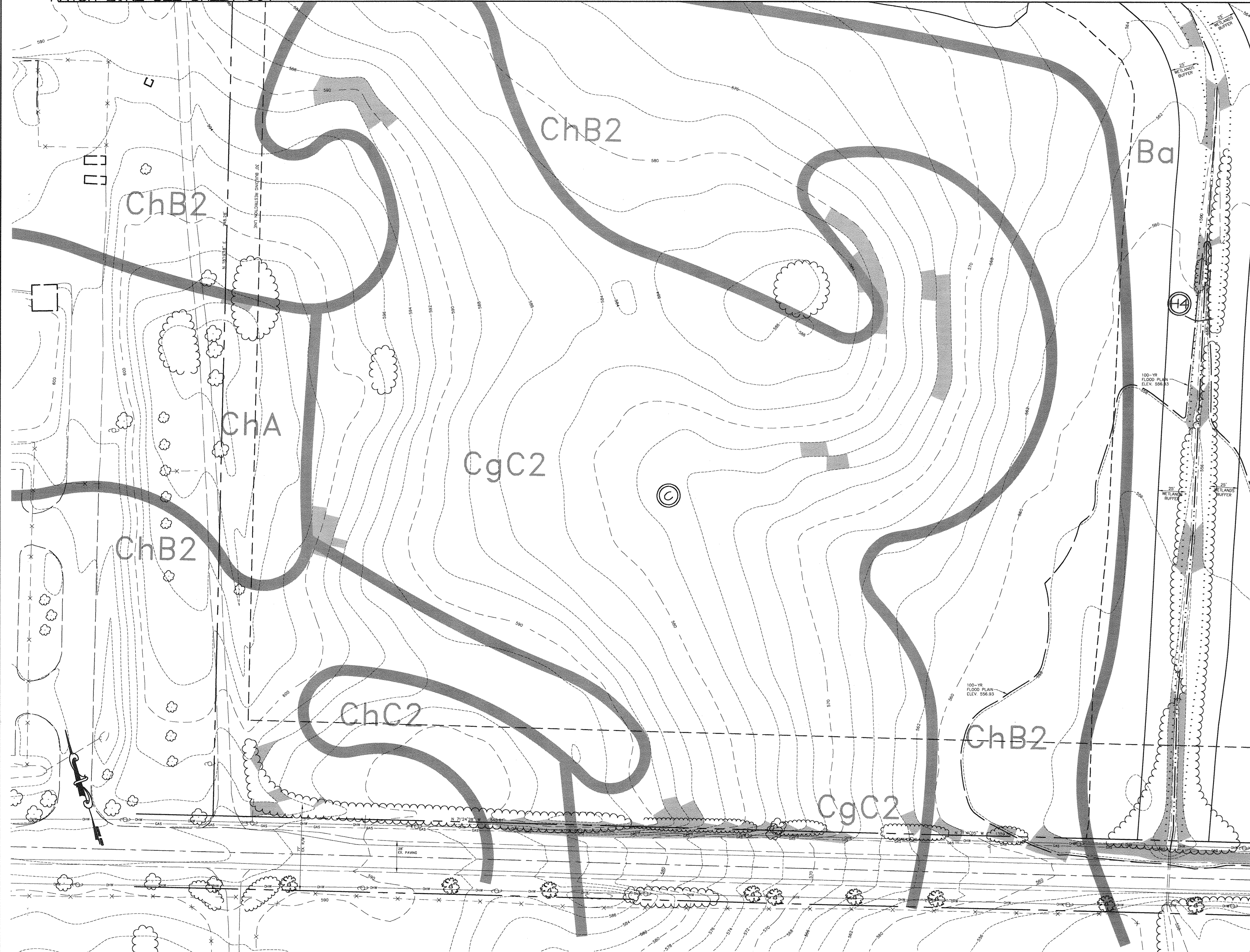
SUBSTITUTION NOTE:
 16 SMALL FLOWERING TREES WERE SUBSTITUTED FOR 8 SHADE TREES.

PARKING LOT AND PERIMETER PLANT LIST					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
AR	43	Acer rubrum 'Red Sunset' Red Sunset Red Maple	2.5'-3' cal.	B4B	Plant as shown
FP	31	Fraxinus pennsylvanica 'Summit' Summit Green Ash	2.5'-3' cal.	B4B	Plant as shown
PL	24	Platanus occidentalis London Plane Tree	2.5'-3' cal.	B4B	Plant as shown
QP	46	Quercus phellos Willow Oak	2.5'-3' cal.	B4B	Plant as shown
IO	64	Ilex opaca American Holly	5'-6' ht.	B4B	Plant as shown
PA	51	Pinus strobus Norway Spruce	6'-8' ht.	B4B	Plant as shown
PS	141	Pinus strobus Eastern White Pine	6'-8' ht.	B4B	Plant as shown
OV	8	Ostrya virginica White Fringe Tree	8'-10' ht.	B4B	Plant as shown
CF	11	Cornus Florida 'Rubra' Red Flowering Dogwood	8'-10' ht.	B4B	Plant as shown

STORMWATER MANAGEMENT PERIMETER PLANT LIST					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
AR	11	Acer rubrum 'Red Sunset' Red Sunset Red Maple	2.5'-3' cal.	B4B	Plant as shown
BN	13	Betula nigrata 'Heritage' Heritage River Birch	2.5'-3' cal.	B4B	Plant as shown
QP	11	Quercus phellos Willow Oak	2.5'-3' cal.	B4B	Plant as shown
IO	34	Ilex opaca American Holly	5'-6' ht.	B4B	Plant as shown
PS	20	Pinus strobus Eastern White Pine	6'-8' ht.	B4B	Plant as shown
CF	16	Cornus Florida 'Rubra' Red Flowering Dogwood	8'-10' ht.	B4B	Plant as shown

MATCH LINE SEE SHEET 36

MATCH LINE SEE SHEET 37



FOR 362 REV. ONLY 11/3/17

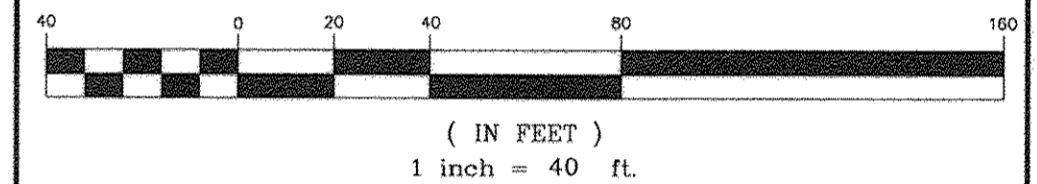
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 6-8-18

LEGEND

EX. TREELINE	
PROPERTY LINE	
SOILS - SOIL SURVEY SYMBOL	
STEEP SLOPES 15-25%	
STEEP SLOPES > 25%	
CONTOUR LINES	
EX. TREE > 30'	
STAND #	

MATCH LINE SEE SHEET 35

GRAPHIC SCALE



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 8/22/03

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR
 DATE: 8/20/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 9/01/03

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 8/22/03

11.8.17 | REVISE OWNER NAME + USE BY BGT
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

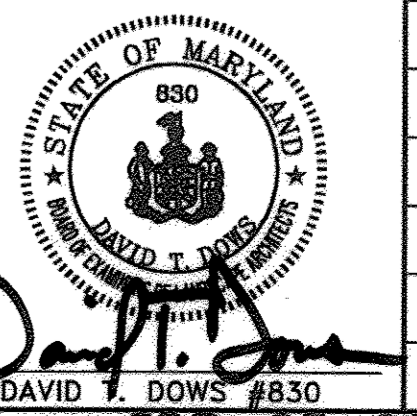
TITLE
 FOREST STAND DELINEATION

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

7-28-03
 DATE

DESIGNED BY: K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO. 22516/2-0/ENGR L201FSD
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 34 OF 51

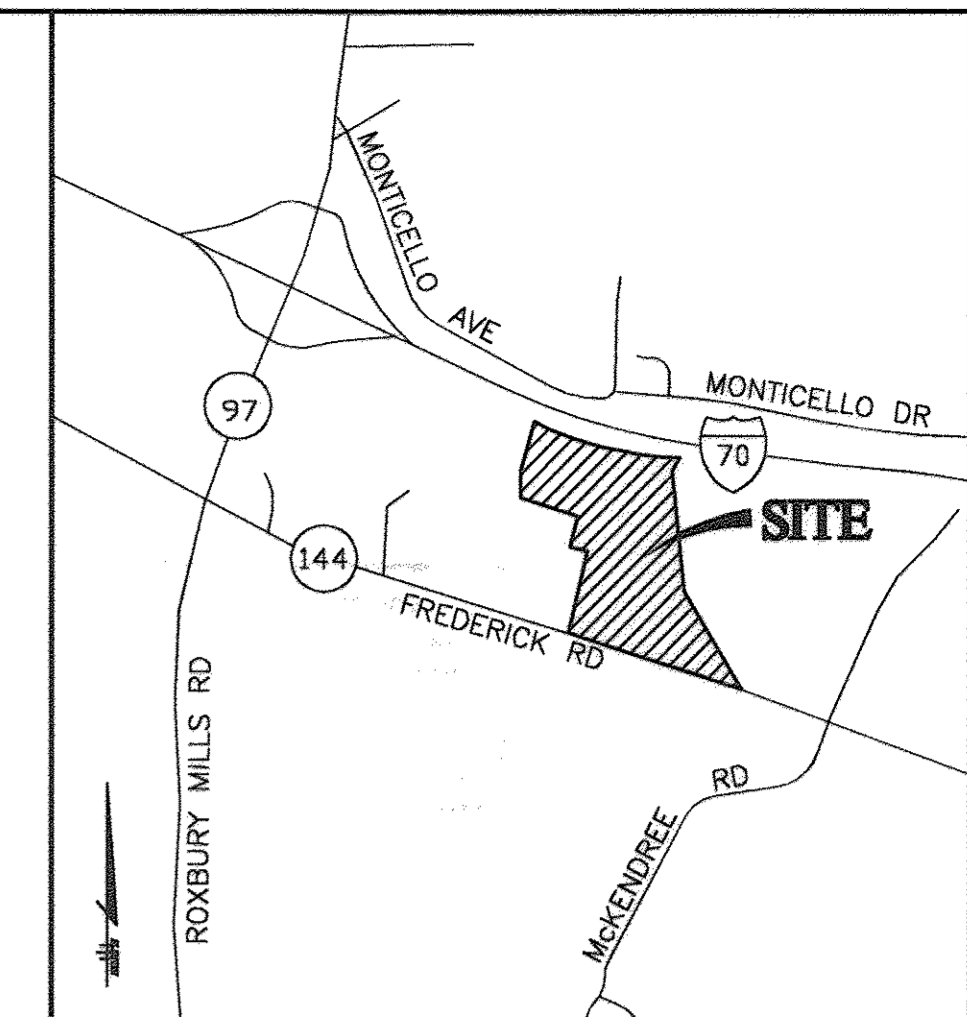
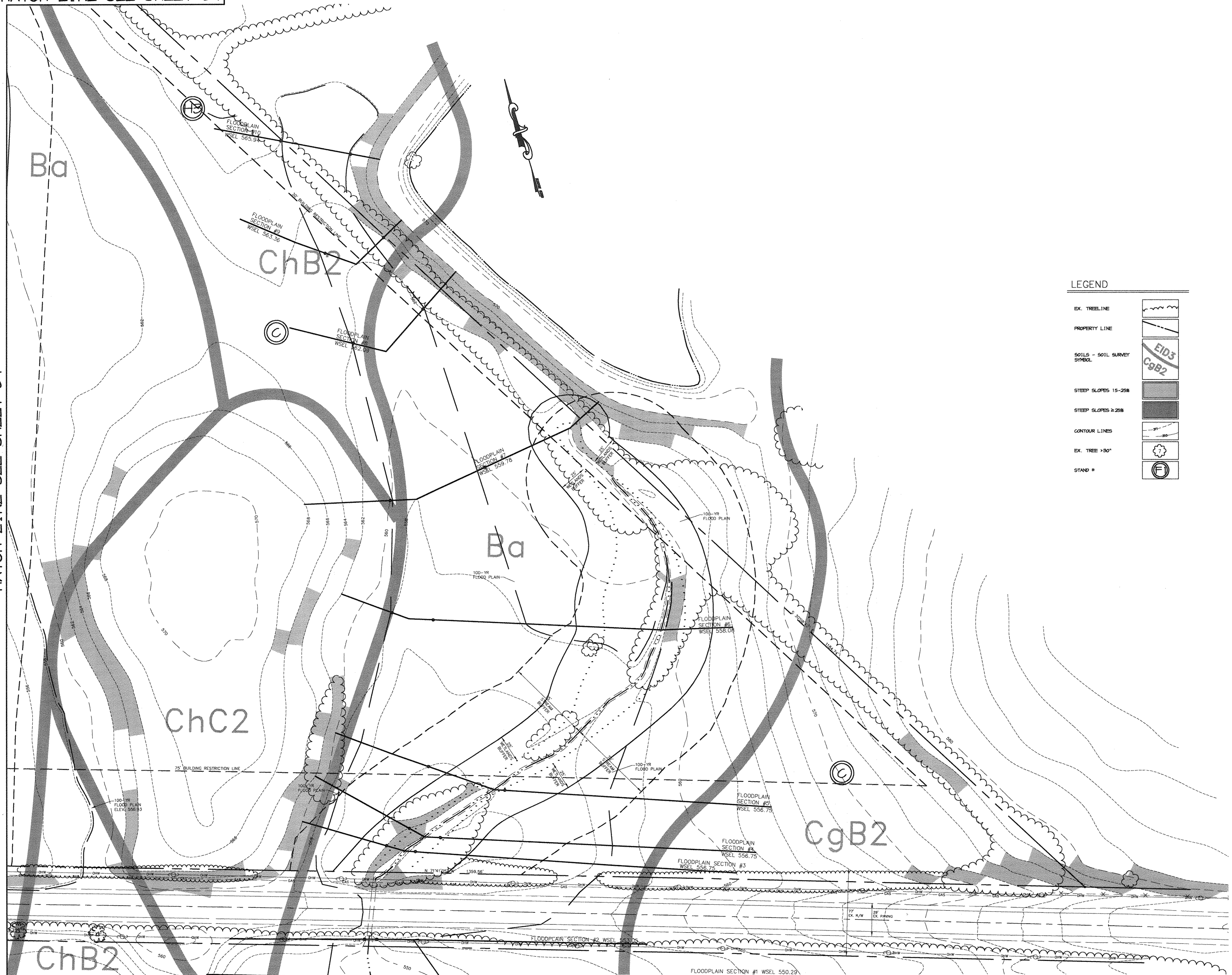
DAVID T. DOWS #830



SDP-03-90

MATCH LINE SEE SHEET 37

MATCH LINE SEE SHEET 34



VICINITY MAP
SCALE: 1"=2000'

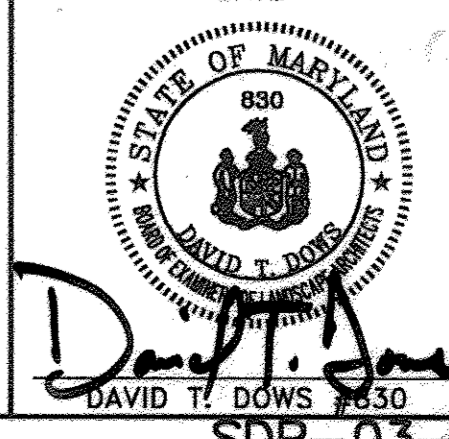
LEGEND

EX. TREE LINE	
PROPERTY LINE	
SOILS - 501L SURVEY SYMBOL	
STEEP SLOPES 15-25%	
STEEP SLOPES >25%	
CONTOUR LINES	
EX. TREE >30"	
STAND #	

PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577, Expiration Date: 6-8-17
11/17/17
FOR REVIEW ONLY

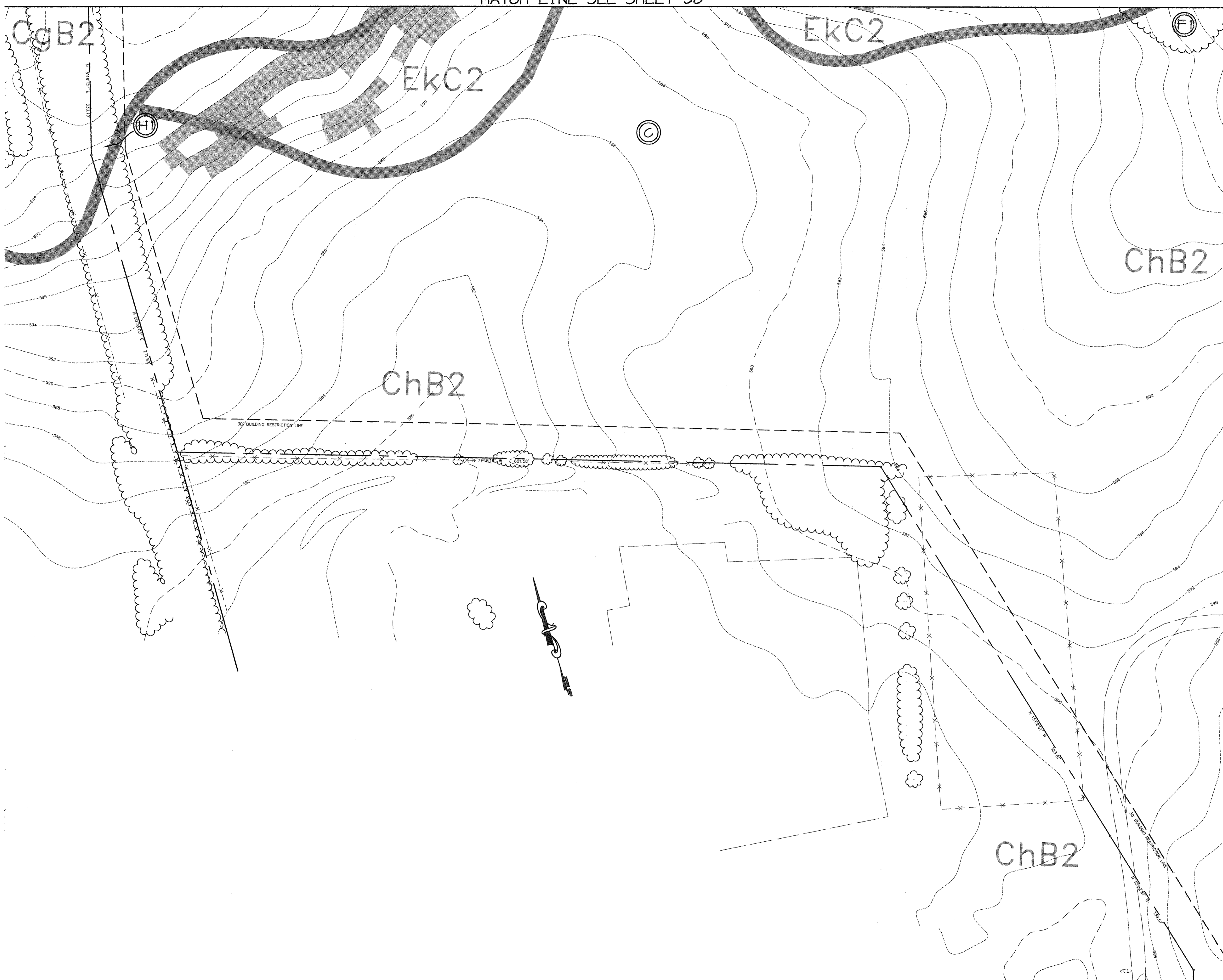
GRAPHIC SCALE
0 20 40 60 80 100
(IN FEET)
1 inch = 40 ft.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS <i>[Signature]</i> 8/20/13 COUNTY HEALTH OFFICER DATE HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING <i>[Signature]</i> 8/20/13 DIRECTOR DATE	
<i>[Signature]</i> 9/10/13 CHIEF, DEVELOPMENT ENGINEERING DIVISION MGT DATE	
<i>[Signature]</i> 5/2/15 CHIEF, DIVISION OF LAND DEVELOPMENT DATE	
11-8-17	REVISE OWNER NAME + USE BY B&E
DATE NO.	REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE FOREST STAND DELINEATION	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
7-26-03 DATE	
DESIGNED BY: K.L.S.	
DRAWN BY: K.L.S.	
PROJECT NO: 22516/2-0/ENGR L200FSD	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 35 OF 51	



SDP-03-90

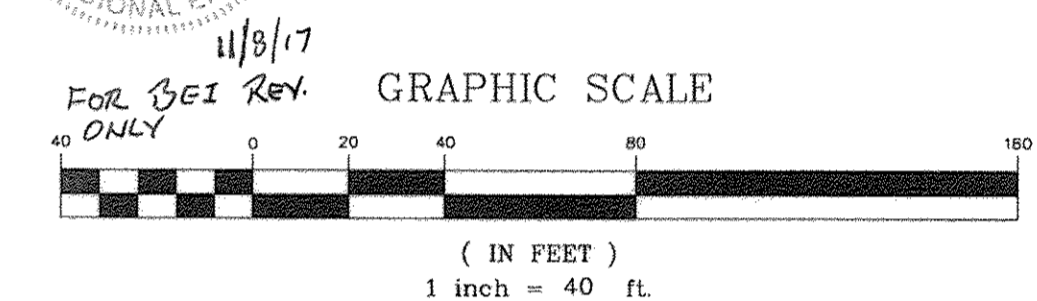
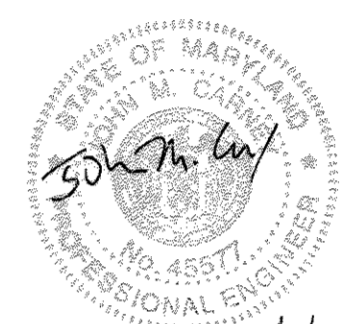
MATCH LINE SEE SHEET 38



Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-18

LEGEND

EX. TREELINE	
PROPERTY LINE	
SOILS - SOIL SURVEY SYMBOL	
STEEP SLOPES 15-25%	
STEEP SLOPES >25%	
CONTOUR LINES	
EX. TREE >30'	
STAND #	



MATCH LINE SEE SHEET 37

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
David T. Dows 8/22/13
 COUNTY HEALTH OFFICER DATE
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
David L. Wright 8/22/13
 DIRECTOR DATE

David T. Dows 4/20/13
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Carlynn Harvett 5/27/13
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

11-8-17	1	REVISE OWNER NAME + USE BY BEI
DATE	NO.	REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

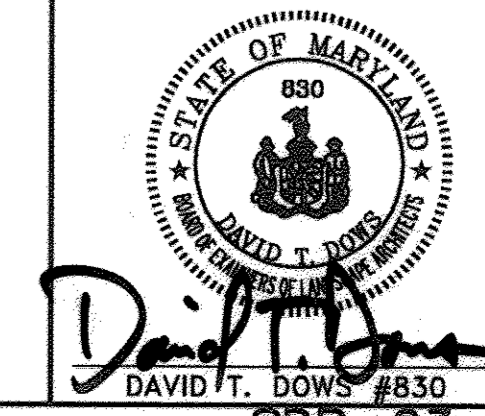
TITLE
FOREST STAND DELINEATION

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

PHRA
 7-28-03
 DATE

DESIGNED BY : K.L.S.
 DRAWN BY : K.L.S.
 PROJECT NO : 22516/2-0/ENGR L203FSD
 DATE : JULY 28, 2003
 SCALE : 1" = 40'
 DRAWING NO. 36 OF 51

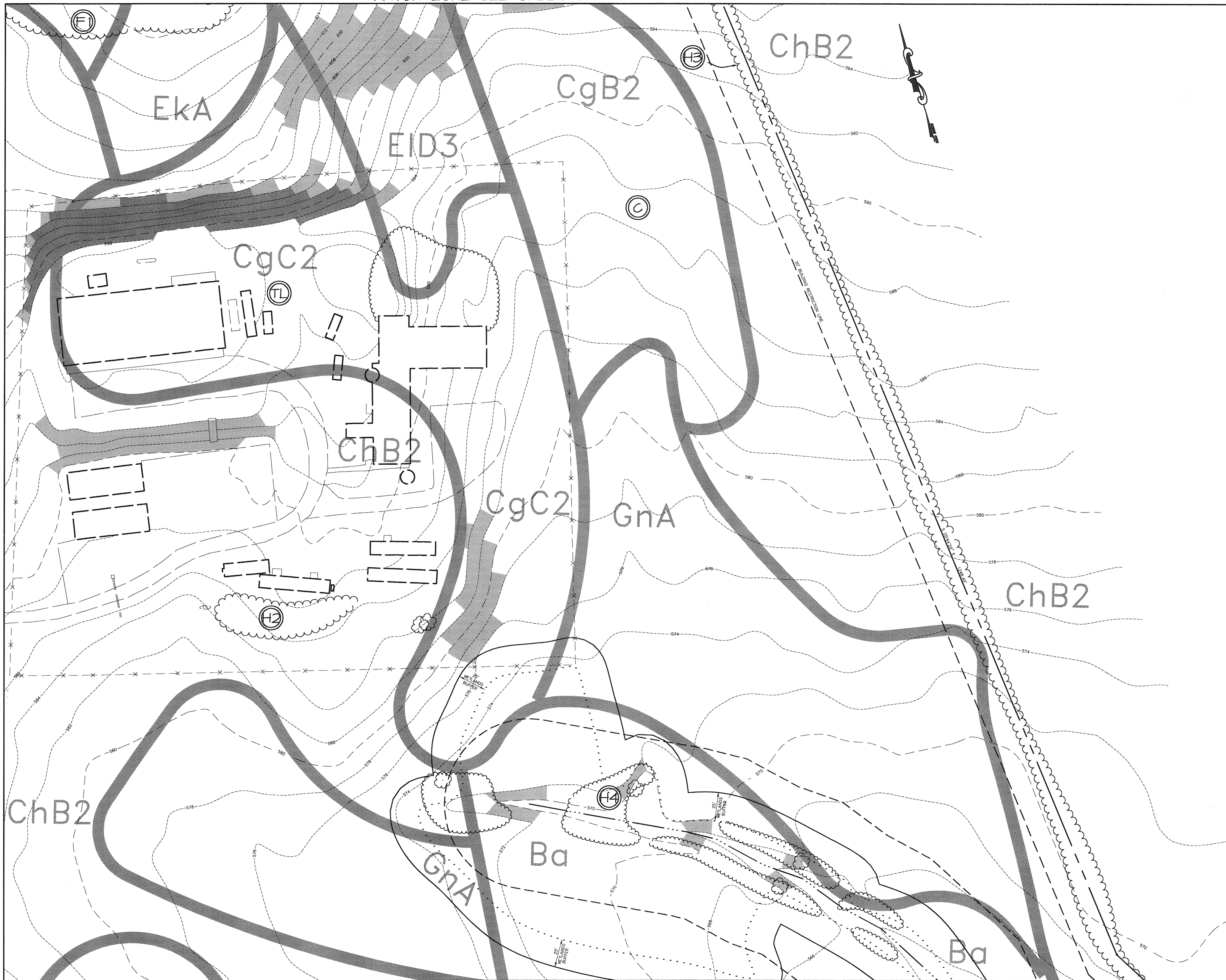
MATCH LINE SEE SHEET 34



SDP-03-90

MATCH LINE SEE SHEET 39

MATCH LINE SEE SHEET 36



MATCH LINE SEE SHEET 34

MATCH LINE SEE SHEET 35

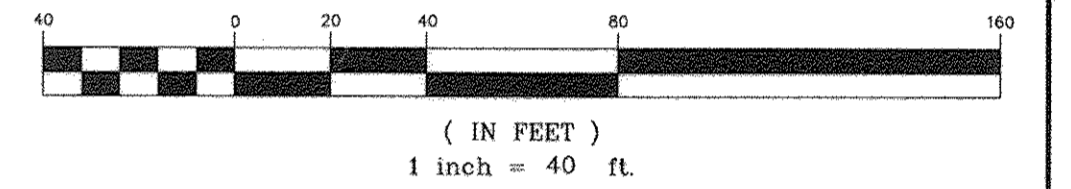
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date 6-8-18

FOR SET
REV.
ONLY
[Signature]
11/8/17

LEGEND

- EX. TREE LINE
- PROPERTY LINE
- SOILS - SOIL SURVEY SYMBOL
- STEEP SLOPES 15-25%
- STEEP SLOPES >25%
- CONTOUR LINES
- EX. TREE >30'
- STAND #

GRAPHIC SCALE

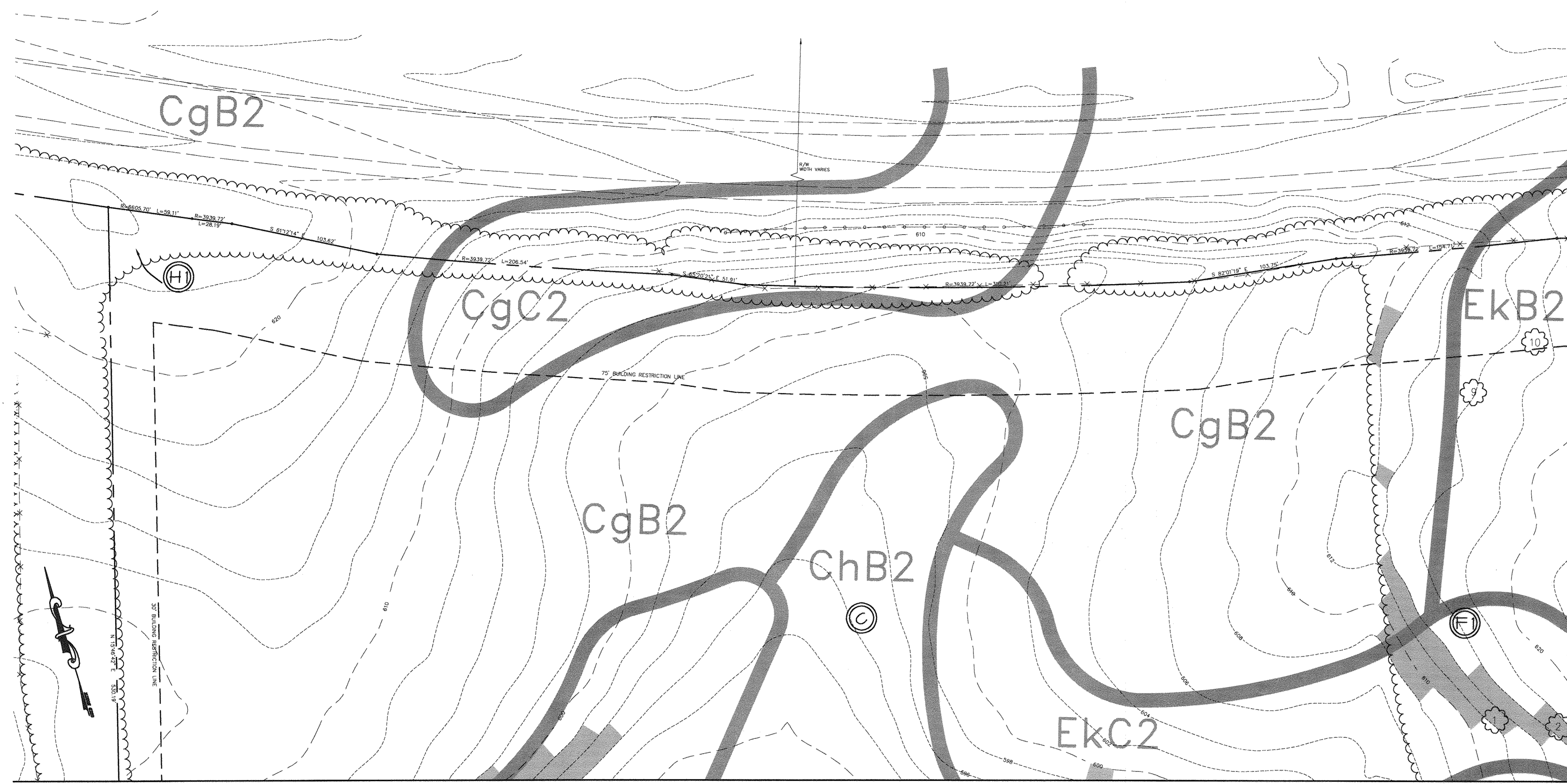


APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>[Signature]</i>	DATE
COUNTY/HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i>	DATE
DIRECTOR	
<i>[Signature]</i>	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>[Signature]</i>	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	
11-8-17 REVISE OWNER NAME + USE BY BEZ	
DATE NO.	REVISION
OWNER / DEVELOPER	
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT	
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	
FOREST STAND DELINEATION	
Patton Harris Rust & Associates,pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
PHRA	
7-24-03 DATE	
DESIGNED BY: K.L.S.	
DRAWN BY: K.L.S.	
PROJECT NO: 22516/2-0/ENGR L202FSD	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 37 OF 51	
<i>[Signature]</i> DAVID T. DOWS #830	

SDP-03-90

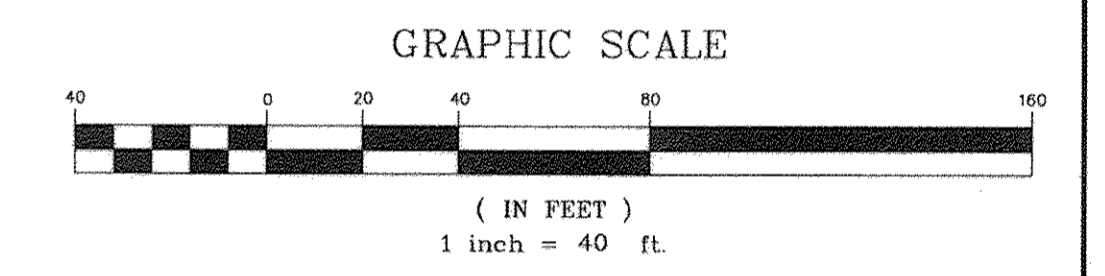
Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 6-3-18

FOR BEI REV. ONLY
 11/8/17



LEGEND

EX. TREE LINE	
PROPERTY LINE	
SOILS - SOIL SURVEY SYMBOL	
STEEP SLOPES 15-25%	
STEEP SLOPES > 25%	
CONTOUR LINES	
EX. TREE > 30"	
STAND #	



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY/HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE: 5/22/13

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR
 DATE: 8/26/13

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 9/10/13

CHIEF, DIVISION OF LAND DEVELOPMENT
 DATE: 5/21/13

MATCH LINE SEE SHEET 36

- GENERAL NOTES:**
- THE SITE IS LOCATED ON FREDERICK ROAD. THE SITE CONSISTS OF ONE PARCEL WHICH IS 66.08± ACRES.
 - TOPOGRAPHIC INFORMATION IS FROM AN AERIAL SURVEY. BOUNDARY INFORMATION IS FROM WAS PREPARED BY NAVARRO AND WRIGHT, DATED AUGUST 2002.
 - THE SOILS ON SITE ARE BAILE SILT LOAM (MAPPING UNIT Ba), CHESTER GRAVELLY LOAM (MAPPING UNIT CgB2) CHESTER GRAVELLY LOAM (MAPPING UNIT CgC2), CHESTER SILT LOAM (MAPPING UNIT ChA), HESTER SILT LOAM (MAPPING UNIT ChB2), CHESTER SILT LOAM (MAPPING UNIT ChC2), ELIOAK SILTY CLAY LOAM (MAPPING UNIT EID3), ELIOAK SILT LOAM (EKA), ELIOAK SILT LOAM (EKB2), ELIOAK SILT LOAM (MAPPING UNIT EKc2), GLENVILLE SILT LOAM (MAPPING UNIT GvA). ACCORDING TO THE SOIL SURVEY FOR HOWARD COUNTY, MARYLAND. STEEP SLOPES ARE PRESENT ON THE SITE.
 - THE SITE IS ZONED RCDEO (RURAL CONSERVATION , DENSITY EXCHANGE OPTION).
 - THE SITE IS LOCATED IN THE PATUXENT WATERSHED, MIDDLE PATUXENT RIVER SUBWATERSHED. BOTH WETLANDS AND STEEP SLOPES ARE PRESENT ON SITE.
 - TWO STREAMS ARE LOCATED ON SITE. NO FLOODPLAINS ARE LOCATED ON SITE.
 - THERE IS ONE EXISTING FOREST STAND LOCATED ON SITE.
 - FIELD WORK FOR THIS INVENTORY WAS CONDUCTED IN DECEMBER, 2002 BY GRAHAM HUBBARD, ENVIRONMENTAL TECHNICIAN AND KELLY SECTOO, PLANNER OF PATTON HARRIS RUST & ASSOCIATES, PC.
 - THE SITE HAS A FOREST CONSERVATION THRESHOLD OF 20% AND AN AFFORESTATION THRESHOLD OF 15%.
 - NO CEMETERIES OR HISTORIC STRUCTURES ARE LOCATED ON-SITE. ALL EXISTING STRUCTURES WILL BE REMOVED.
 - NO RARE, THREATENED, OR ENDANGERED PLANTS OR ANIMALS OR CRITICAL HABITATS WERE OBSERVED IN THE FIELD.
 - THIS FOREST STAND DELINEATION (FSD) HAS BEEN PREPARED IN ACCORDANCE WITH HOWARD COUNTY REGULATIONS.

SOILS CHART

SOILS GROUP	MAP SYMBOL	NAME	STRUCTURAL LIMITATIONS DWELLINGS	EROSION HAZARD	HYDRIC	SLOPE (%)
D	Ba	BAILE SILT LOAM	SEVERE	---	YES	---
B	CgB2	CHESTER GRAVELLY LOAM	SLIGHT	MODERATE	NO	3-8%
B	CgC2	CHESTER GRAVELLY LOAM	MODERATE	MODERATE	NO	8-15%
B	ChA	CHESTER SILT LOAM	SLIGHT	---	NO	0-3%
B	ChB2	CHESTER SILT LOAM	SLIGHT	MODERATE	NO	3-8%
B	ChC2	CHESTER SILT LOAM	MODERATE	MODERATE	NO	8-15%
C	EID3	ELIOAK SILTY CLAY LOAM	MODERATE/SEVERE	SEVERE	NO	12-25%
C	EKA	ELIOAK SILT LOAM	SLIGHT	---	NO	0-3%
C	EkB2	ELIOAK SILT LOAM	MODERATE	MODERATE	NO	3-8%
C	EkC2	ELIOAK SILT LOAM	MODERATE/SEVERE	MODERATE	NO	8-15%
C	GvA	GLENVILLE SILT LOAM	MODERATE	---	NO*	0-3%

* SOIL MAY CONTAIN HYDRIC INCLUSIONS

PLANT COMMUNITY SUMMARY

SYMBOL	COMMUNITY	AREA
F1	FOREST	2.62 AC±
H1	HEDGE ROW	.45 AC±
H2	HEDGE ROW	.07 AC±
H3	HEDGE ROW	1.15 AC±
H4	HEDGE ROW	.57 AC±
C	CROPS	56.44 AC±
TL	TREE LAWN-IMPERVIOUS AREA	4.8 AC±

EX. TREE >24" DBH KEY

SYMBOL	DESCRIPTION	TO REMAIN IN PHASE I
1	32" Red Oak	No
2	33" Chestnut Oak	No
3	35" Chestnut Oak	No
4	30" Red Oak	No
5	32" Chestnut Oak	No
6	44" Red Oak	No
7	32" Red Oak	No
8	36" Red Oak	No
9	30" White Oak	No
10	34" Red Oak	No
11	31" Red Oak	No
12	32" Chestnut Oak	No
13	39" Chestnut Oak	No
14	40" twin Red Oak	No
15	30" Red Oak	No
16	44" twin Chestnut Oak	Yes

SITE TABULATIONS:

TOTAL SITE AREA: 66.08 Ac.±
 AREA TO BE DEDICATED FOR PUBLIC ROAD: 0.5 Ac.±
 NET SITE AREA: 65.58 Ac.±
 EXISTING FOREST: 2.62 Ac.
 EXISTING ZONING: RCDEO

FOREST STAND I - NARRATIVE :

The only stand on site located on the Northern edge and occupies about 2.62 acres. The trees in this stand are typical of those trees found in the Chestnut Oak Forest Association. The stand is mature, primarily comprised of a deciduous canopy, and the overall condition of the stand is good. The tree cover in this stand is fairly dense with a canopy closure of 80%. The understorey is also fairly open with a mix of exotic invasive species and downed trees and woody debris. Several specimen trees were located in this stand.

Chestnut Oaks have established themselves as the dominant tree with a 50% canopy dominance. Red Oak is the codominant species and comprises about 40% of the canopy. White Oak and Black Cherry are also found in the stand. The average diameter at breast height (dab) varies from 2" to 44".

The understorey is primarily comprised of a mix of Black Cherry, Polon Ivy, Multiflora Rose, and Japanese Honeyuckle. The invasive plant species include Polon Ivy, Multiflora Rose and Japanese Honeyuckle. The forest floor in this stand is covered by leaf litter, downed woody debris, Multiflora Rose and Japanese Honeyuckle. Downed woody debris occupies approximately 15% of the ground plane.

No portion of this stand is encumbered by the 100 year floodplain, wetland buffers, or environmentally sensitive areas. The preservation priority of the forest is moderate when comparing the lack of environmentally sensitive areas against the maturity of the stand and its high quality vegetation.

11-8-17 / REVISE OWNER NAME + USE BY BEI

DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21725
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE I - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
FOREST STAND DELINEATION

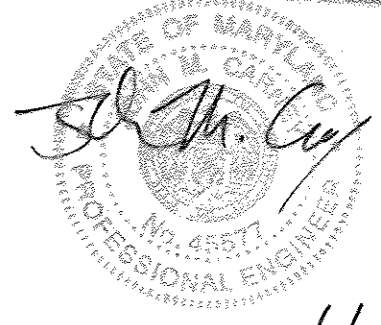
Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY : K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO : 22516/2-0/ENGR L205FSD
 DATE : JULY 28, 2003
 SCALE : 1" = 40'
 DRAWING NO. 38 OF 51

7-24-03 DATE

DAVID T. DOWS #830

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date 6-3-18



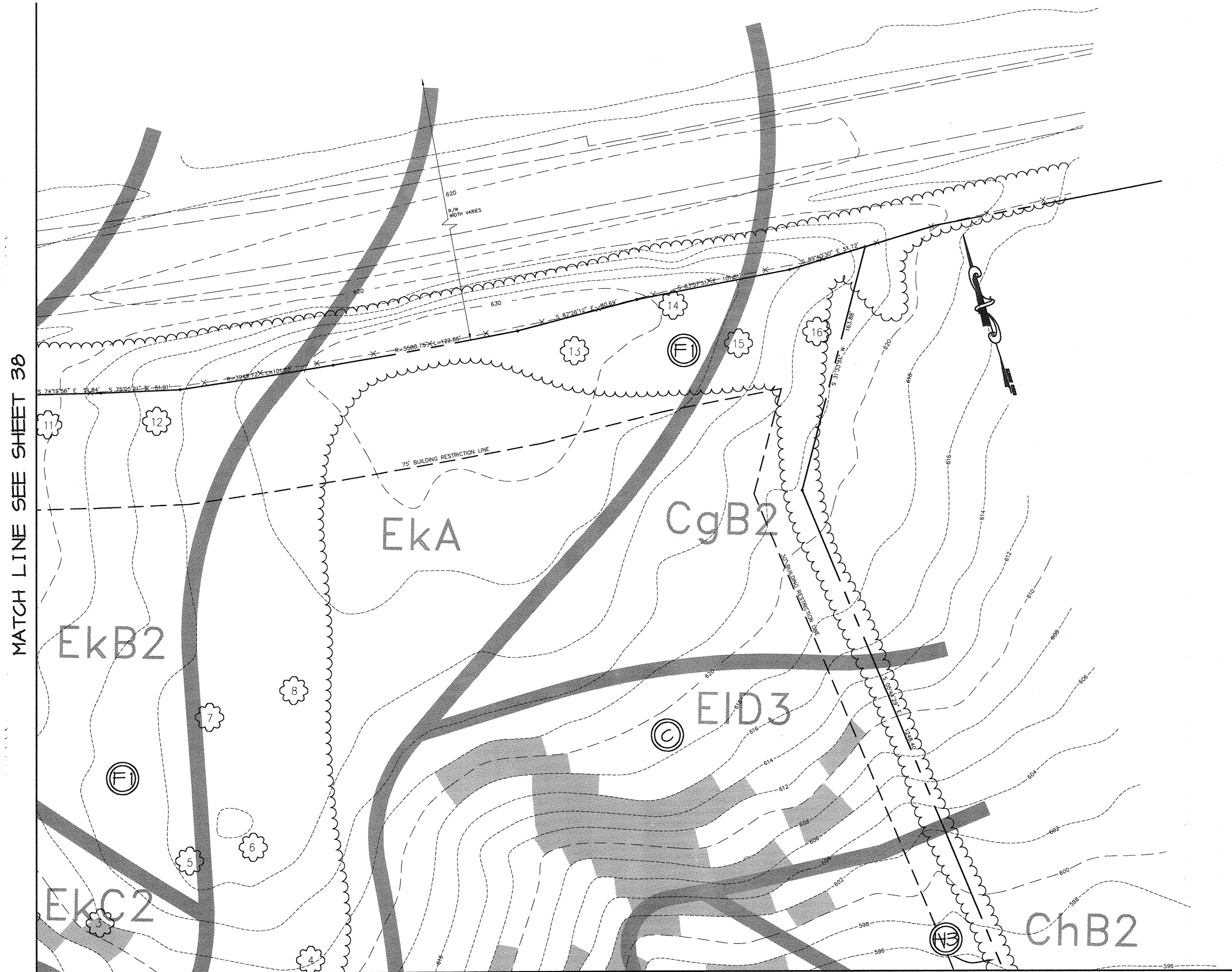
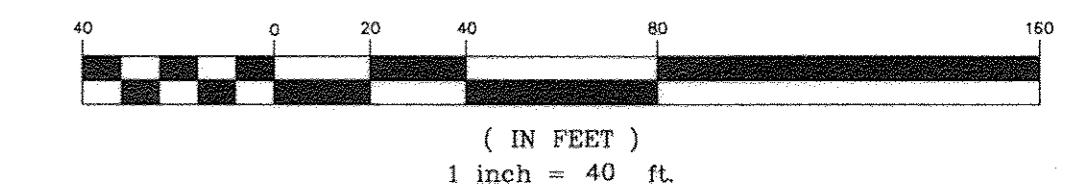
E02
B02
REV.
ONLY

11/8/17

LEGEND

EX. TREE LINE	
PROPERTY LINE	
SOILS - SOIL SURVEY SYMBOL	
STEEP SLOPES 15-25%	
STEEP SLOPES >25%	
CONTOUR LINES	
EX. TREE >30'	
STAND #	

GRAPHIC SCALE



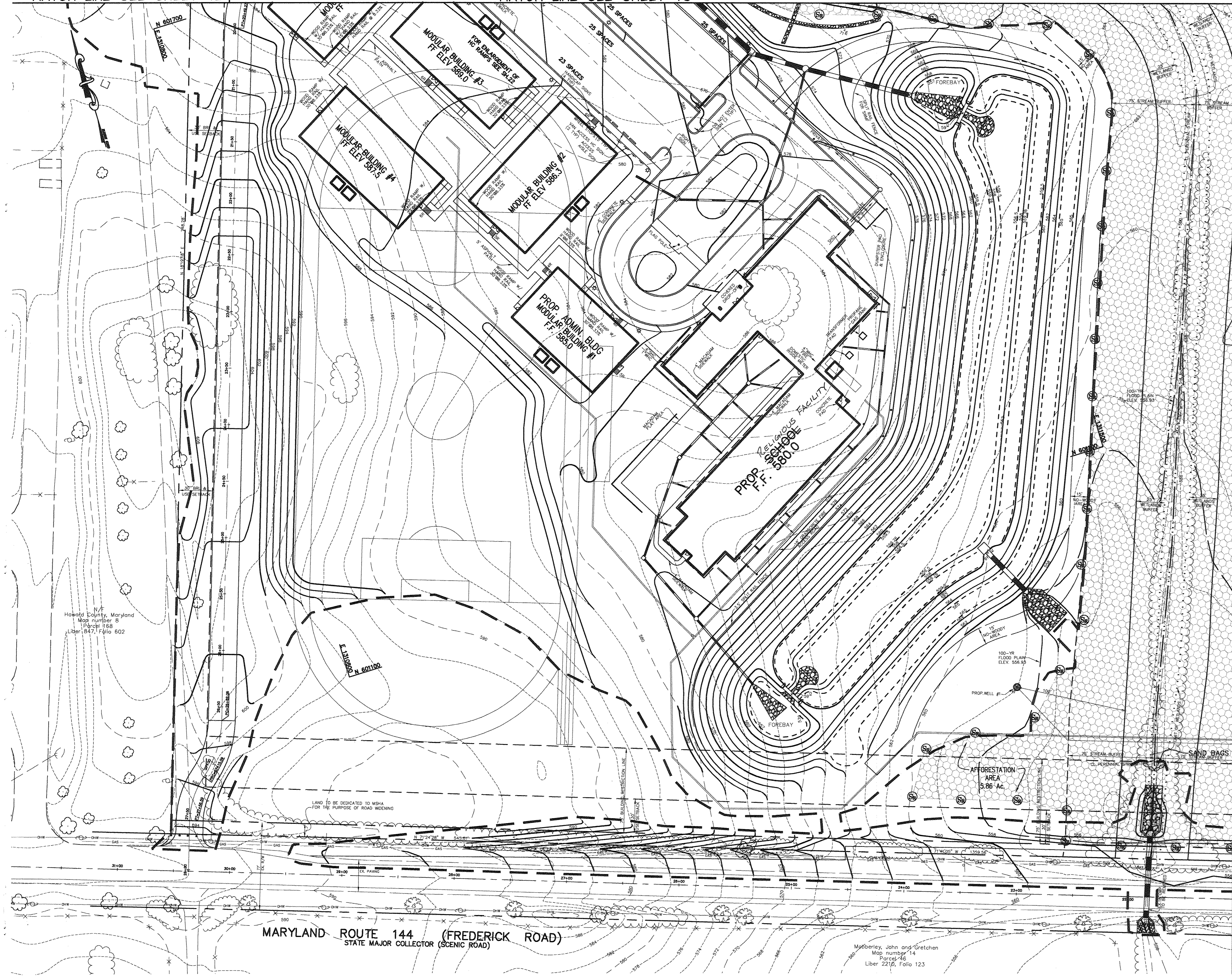
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>Dennis B. ...</i>	8-22-03
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Dorothy ...</i>	8/20/03
DIRECTOR	
<i>[Signature]</i>	8/20/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION M&I	
<i>Cinda ...</i>	7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT	
11-8-17	REVISE OWNER, NAME + USE BY ISGT
DATE NO.	REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE FOREST STAND DELINEATION	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
7-24-03	DATE
	DESIGNED BY: K.L.S.
<i>[Signature]</i>	DRAWN BY: K.L.S.
DAVID T. DOWS	PROJECT NO: 22516/2-0/ENGR L204FSD
	DATE: JULY 28, 2003
	SCALE: 1" = 40'
	DRAWING NO. 39 OF 51

MATCH LINE SEE SHEET 42

MATCH LINE SEE SHEET 43

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577, Expiration Date: 6-8-18

FOR BET REV. ONLY
11/8/17



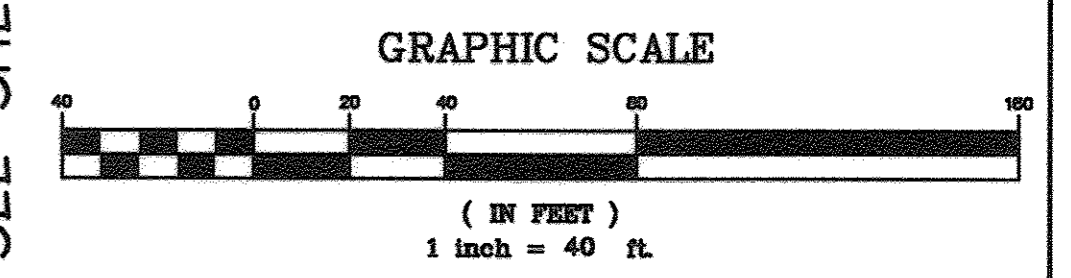
N/F
Howard County, Maryland
Map number 8
Parcel 1168
Liber 847, Folio 602

MARYLAND ROUTE 144 (FREDERICK ROAD)
STATE MAJOR COLLECTOR (SCENIC ROAD)

Moberley, John and Gretchen
Map number 14
Parcel 146
Liber 2210, Folio 123

LEGEND

LIMIT OF DISTURBANCE	
EX. SPECIMEN TREES	
EX. TREELINE	
PROP. TREELINE	
PROP. REFORESTATION AREA	
REFORESTATION AREA SIGNAGE	
PROPOSED SEPTIC FIELD	



MATCH LINE SEE SHEET 41

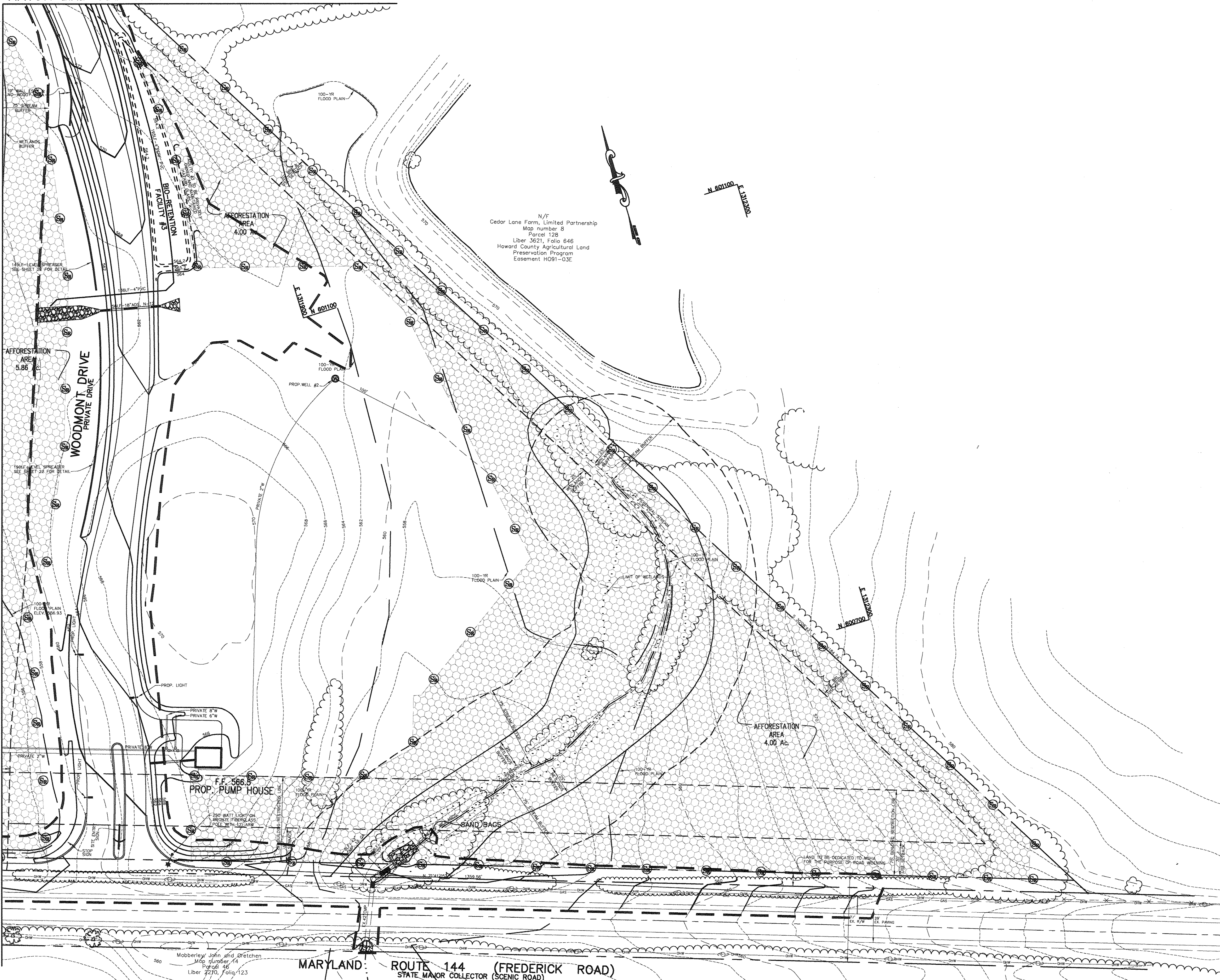
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS <i>David T. Dows</i> 8/22/13 DATE	
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. <i>Frank S. Leavelle</i> 8/20/13 DATE	
DIRECTOR	
<i>Mark J. ...</i> 8/21/13 DATE	
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>Conrad ...</i> 8/21/13 DATE	
CHIEF, DIVISION OF LAND DEVELOPMENT	
11.8.17	1 REVISE OWNER NAME + Csg BY BET
DATE NO.	REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE FOREST CONSERVATION PLAN	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
PHRA 7.28.03 DATE	
DESIGNED BY: K.L.S.	
DRAWN BY: K.L.S.	
PROJECT NO: 22516/2-0/ENGR L301FCP	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 40 OF 51	



DAVID T. DOWS #830
SDP-03-90

MATCH LINE SEE SHEET 43

MATCH LINE SEE SHEET 40



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45572, Expiration Date: 6.3.18

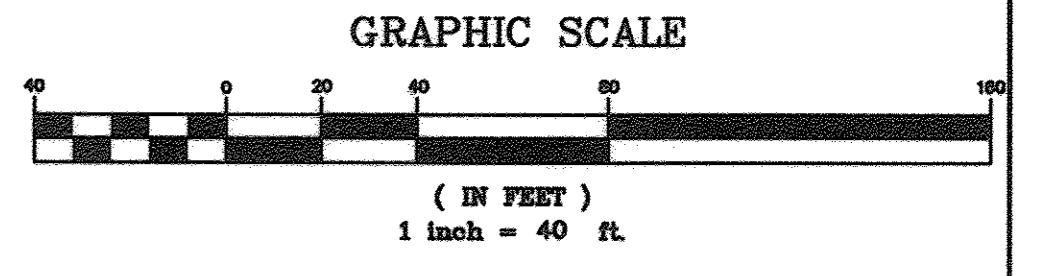


FOR
 BEI
 REV.
 ONLY

11/8/17

LEGEND

LIMIT OF DISTURBANCE	
EX. SPECIMEN TREES	
EX. TREELINE	
PROP. TREELINE	
PROP. REFORESTATION AREA	
REFORESTATION AREA SIGNAGE	
PROPOSED SEPTIC FIELD	



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>[Signature]</i>	DATE 8-22-03
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i>	DATE 8/28/03
DIRECTOR	
<i>[Signature]</i>	DATE 8/28/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>[Signature]</i>	DATE 8/28/03
CHIEF, DIVISION OF LAND DEVELOPMENT	
11.8.17! REVISE OWNER NAME + USE BY BEI	
DATE NO.	REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE FOREST CONSERVATION PLAN	
Patton Harris Rust & Associates, PC Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
 DATE 7-28-03	
 DESIGNED BY: K.L.S. DRAWN BY: K.L.S. PROJECT NO: 22516/2-0/ENGR L300FCP DATE: JULY 28, 2003 SCALE: 1" = 40' DRAWING NO. 41 OF 51	
DAVID T. DOWS #830 SDP-03-90	

P:\project\22516\2-0\Engr\Plans\L300FCP.dwg, Layout1, 07/28/2003 02:06:30 PM, HP1050C_DraftLPC3, Act1 D - 24 x 36 in. (landscape), 1:1

MATCH LINE SEE SHEET 44



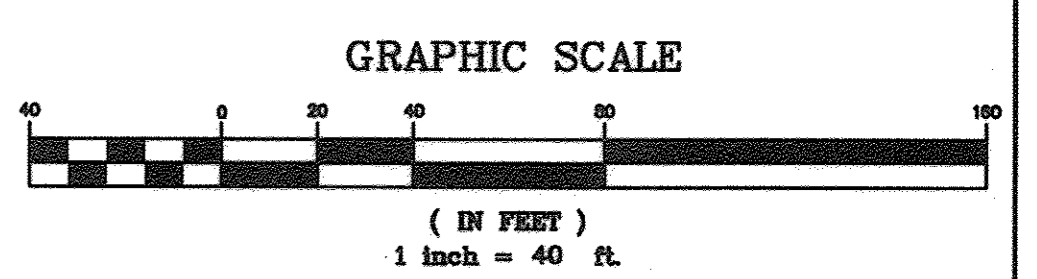
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-18

FOR BET REV.
 ONLY

 11/8/17

LEGEND

LIMIT OF DISTURBANCE	
EX. SPECIMEN TREES	
EX. TREELINE	
PROP. TREELINE	
PROP. REFORESTATION AREA	
REFORESTATION AREA SIGNAGE	
PROPOSED SEPTIC FIELD	



MATCH LINE SEE SHEET 43

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT
 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 DIRECTOR
 DATE

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

11.8.17 REVISE OWNER NAME + USE BY BET
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

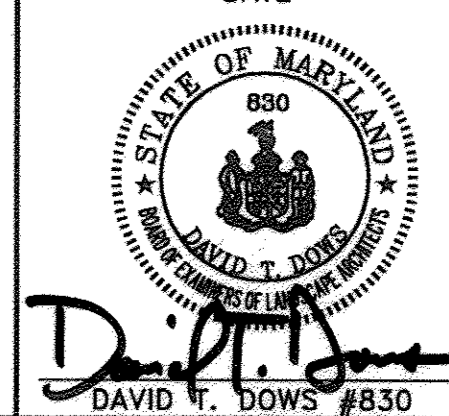
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
FOREST CONSERVATION PLAN

Patton Harris Rust & Associates, pc
 Engineers. Surveyors. Planners. Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

7-24-09
 DATE

DESIGNED BY: K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO: 22516/2-0/ENGR L303FCP
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 42 OF 51



MATCH LINE SEE SHEET 40

MATCH LINE SEE SHEET 45

MATCH LINE SEE SHEET 42

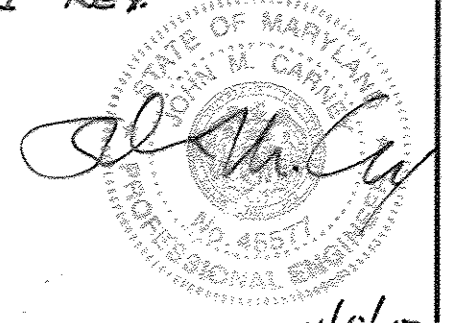
MATCH LINE SEE SHEET 40

MATCH LINE SEE SHEET 41



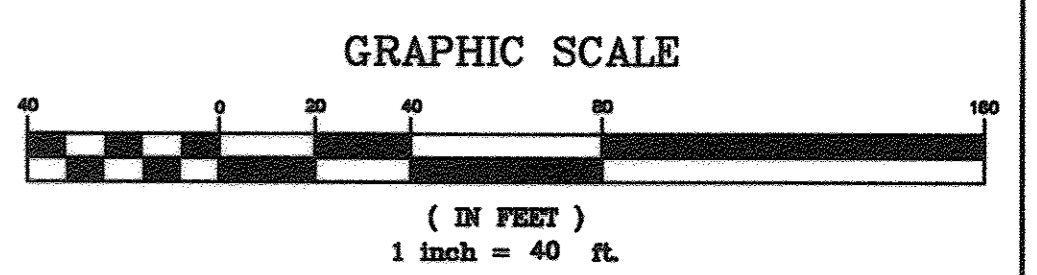
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 6-8-18

FOR THE REVIEW ONLY



LEGEND

LIMIT OF DISTURBANCE	
EX. SPECIMEN TREES	
EX. TREELINE	
PROP. TREELINE	
PROP. REFORESTATION AREA	
REFORESTATION AREA SIGNAGE	
PROPOSED SEPTIC FIELD	



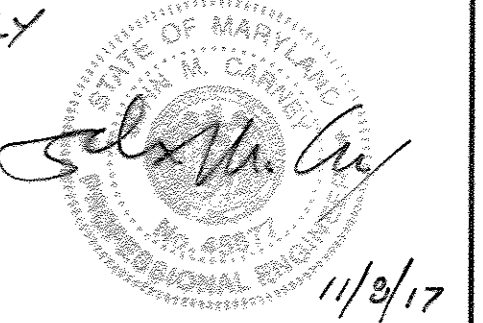
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>[Signature]</i>	8-22-03 DATE
COUNTY/HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i>	4/20/03 DATE
DIRECTOR	
<i>[Signature]</i>	2/14/03 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION MRS.	
<i>[Signature]</i>	8/21/05 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT HB	
9-27-17	CHANGE OWNER, NAME & USE
DATE NO.	REVISION
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. COOKSVILLE, MD 21723 14196 FREDERICK ROAD 301-725-0220	
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY	
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
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Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	
7-28-03	DATE
DESIGNED BY: K.L.S.	
DRAWN BY: K.L.S.	
PROJECT NO. 22516/2-0/ENGR L302FCP	
DATE: JULY 28, 2003	
SCALE: 1" = 40'	
DRAWING NO. 43 OF 51	
SDP-03-90	

P:\project\22516-0-0\Engr\Plan\302FCP.dwg, Layout1, 07/29/2003 02:07:42 PM, HP1080C_Draft.pc3, Arch D, 24 x 36 in. (landscape), 1:1



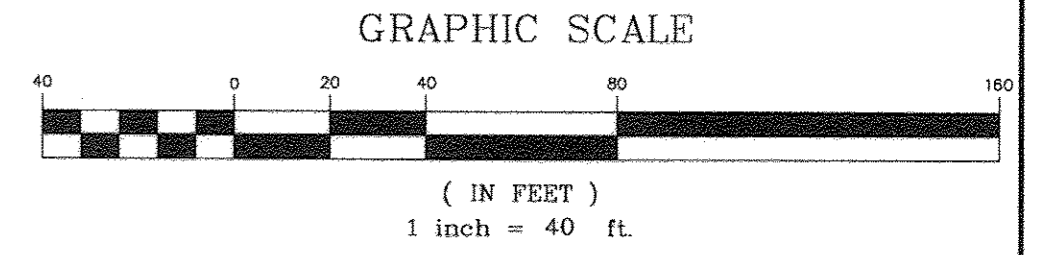
Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date 6-8-18

FOR BET REV ONLY



LEGEND

LIMIT OF DISTURBANCE	
EX. SPECIMEN TREES	
EX. TREELINE	
PROP. TREELINE	
PROP. REFORESTATION AREA	
REFORESTATION AREA SIGNAGE	
PROPOSED SEPTIC FIELD	



MATCH LINE SEE SHEET 45

MATCH LINE SEE SHEET 42

GENERAL NOTES:

- THIS PLAN HAS BEEN PREPARED USING FIELD RUN TOPOGRAPHY. PORTIONS OF THE EXISTING TREELINE AND SPECIMEN TREE LOCATIONS WERE FIELD APPROXIMATED.
- NO CRITICAL HABITATS OF RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
- NO TREES, SHRUBS, OR PLANTS IDENTIFIED AS RARE, THREATENED OR ENDANGERED SPECIES WERE OBSERVED.
- THERE ARE NO KNOWN CEMETERIES OR BURIAL PLOTS LOCATED ON THE SITE, ACCORDING TO THE HOWARD COUNTY CEMETERIES INVENTORY.
- EXISTING STRUCTURES ARE PRESENT ON THE SITE AS SHOWN. ALL EXISTING STRUCTURES WILL BE REMOVED.
- THIS SITE CONTAINS ONE HYDRIC SOIL, BAILE SILT LOAM (Ba). ONE SOIL WITH POSSIBLE HYDRIC INCLUSIONS, GLENVILLE SILT LOAM (Gva) IS ALSO PRESENT ON THE SITE.
- THE FSD, DATED JANUARY 8, 2003, HAS BEEN PREPARED BY PATTON HARRIS RUST & ASSOCIATES IN CONJUNCTION WITH THIS PROJECT.
- JUSTIFICATION FOR FOREST REMOVAL: IN ORDER TO CONSTRUCT PRIVATE SEPTIC SYSTEMS THE FORESTED AREA NEEDS TO BE CLEARED.
- THE HOWARD COUNTY FOREST CONSERVATION MANUAL SUPERCEDES ANY DISCREPANCIES BETWEEN THE MANUAL AND THESE PLANS.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION.
- THE FOREST CONSERVATION OBLIGATION FOR THE PROPOSED SITE DEVELOPMENT HAS BEEN MET BY AFFORESTING 9.86± AC OF FOREST ON SITE AND PAYMENT OF A FEE-IN-LIEU FOR THE REMAINING OBLIGATION. SURETY IN THE AMOUNT OF \$200,000 (411,500 SF x \$0.50) HAS BEEN POSTED FOR THE AFFORESTATION. 18,000 SF OF AFFORESTATION (18 SHADE TREES @ 400 SF AND 48 EVERGREEN TREES @ 225 SF) HAS BEEN BONDED AS PART OF THE LANDSCAPE PLAN TO MEET PERIMETER LANDSCAPE REQUIREMENTS. PAYMENT OF FEE-IN-LIEU IN THE AMOUNT OF \$59,242 (118,483 x \$0.50 SF) IS PROPOSED FOR THE REMAINING OBLIGATION OF 2.72 AC. A FOREST CONSERVATION EASEMENT WILL BE ESTABLISHED OVER THE AFFORESTATION AREAS.
- THE REFORESTATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE. NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED.
- BEARINGS AND DISTANCES FOR THE FOREST CONSERVATION EASEMENT ARE PROVIDED ON AN EASEMENT PLAT AS PLAT NO. 1422, DATED 8/12/2003.

FOREST CONSERVATION SEQUENCE OF OPERATIONS

- Prior to beginning any grading operations on this site or on a respective lot, there shall be a preconstruction meeting held at the site which is to include the Contractor and representatives from Patton Harris Rust & Associates, PC, The Howard County Department of Planning and Zoning (DPZ) and the owner will be notified by the Contractor as to the time and place of the field meeting, should they wish to send a representative. The purpose of this meeting will be to review the approved FOP and to field verify the correct Limits of Disturbance (LOD).
- After site grading, stormwater management construction and parking lot construction have been completed, reforestation can begin. Planting shall follow specifications at right.
- Upon completion of planting, a 2 year (24 month) maintenance and replacement period shall begin, as noted in the specifications.

PLANTING SPECIFICATIONS

- AFFORESTATION OR REFORESTATION MAINTENANCE AND REPLACEMENT REQUIREMENTS**
- A two year (24) month maintenance and replacement warranty period is required for all newly planted materials. The maintenance and replacement warranty period shall commence upon the date of the written acceptance by the Owner of the planted areas. A written warranty will be delivered to the Owner upon acceptance of the planted areas. Maintenance and replacement shall be provided by the Contractor responsible for the initial planting operations and related work. All landscape plant material included as forest conservation credits shall be covered under this maintenance and replacement warranty period.
- I. MAINTENANCE:** The Contractor shall field check the newly planted area(s) and shall provide the following maintenance items in accordance with the following schedule which shall begin after the completion and acceptance of the initial Afforestation or Reforestation planting.
- II. MAINTENANCE ITEMS:**
- Watering:** Watering of all newly planted materials once per week as weather permits during the entire initial growing season. Following the initial growing season, watering shall be done on an "as needed" basis depending on the frequency of natural rainfall. During the months of July and August and periods of severe drought, all newly planted materials shall be watered thoroughly once every week. Watering shall be done deeply and slowly using an open end hose or watering probe, at low pressure, allowing the water to be absorbed into the soil until thoroughly saturated. The watered area shall include the whole root zone as the tree becomes more established.
 - Fertilizing:** Fertilizing shall be applied only after the soil has been tested to determine its needs. Organic fertilizer should be applied in accordance with the amounts recommended in the soil analysis report. No fertilizing of newly planted trees shall be done within the first growing season after initial planting. Following the first growing season, apply fertilizer as recommended either in late fall or early spring.
 - Supplemental Mulch:** To control undesirable vegetation adjacent to the newly planted materials and to prevent tree roots from drying out, additional mulch shall be placed over the existing mulch field where required. Carefully remove any invasive plants (including the root system) within the mulch fields. Do not damage trees in any way during removal of invasive plants or mulching operations.
 - Pruning:** Remove dead, diseased, dying and broken branches from all plant materials. Pruning shall be done cleanly leaving no ragged ends.
- III. REPLACEMENT OF DEAD OR DYING MATERIALS:**
- Replacement: Any plant materials which are 25% dead or more shall be replaced during the appropriate spring or fall planting seasons in accordance with the methods indicated in the Planting Specifications. A tree shall be considered dead when the main leader has died back.
 - All replacements shall be plants of the same genus, species and size as specified on the plant list.

- Contractor shall schedule an inspection of the Afforestation or Reforestation area(s) by a qualified representative of the DPZ and by the qualified professional who prepared the plan, at the beginning and at the end of the growing season to observe any problems, monitor survival rate and specify necessary remedial actions needed to correct existing problems. The inspection should focus on the following items when determining survival potential:

(a) Vigor and threat of competing vegetation	(b) Plant structure
(c) Growth rate	
(d) Crown development	
(e) Trunk conditions and health	

IV. PLANT CONDITION CHECK SHEETS

The Contractor shall maintain accurate records on appropriate field data check sheets which shall include all conditions observed relative to the health and potential survival of the plant materials. Such check sheets shall be completed during each scheduled maintenance session during the 24 month management and maintenance program. One copy of the check sheets shall be sent to the Client, one copy to PHRA, and one copy shall be sent to the Howard County Department of Planning and Zoning.

V. SURVIVAL REQUIREMENT

The survival rate for Afforestation and Reforestation areas shall be a minimum of seventy-five percent (75%) of the total number of trees required to be planted per acre under the approved plan.

VI. INSPECTION/CERTIFICATION SCHEDULE

The Contractor shall submit with his bid, a schedule for the work which shall include inspections by PHRA at the conclusion of installation and at the start and conclusion of each growing season during the two-year warranty period.

VII. PENALTY FOR VIOLATION

A site inspection by the Contractor and a representative of PHRA shall take place at the end of the 24 month management and maintenance agreement period. The Contractor shall contact PHRA at least one (1) month in advance of such inspection for coordination. If the survival rate of the Afforestation or Reforestation area(s) falls below the established survival requirements by the end of the 24-month management and maintenance agreement, the remaining amount of the cash bond or other surety may be subject to forfeiture, or other penalties may be imposed.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	
<i>David T. Dows</i>	DATE 8/22/03
COUNTY HEALTH OFFICER	HOWARD COUNTY HEALTH DEPARTMENT
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark A. Taylor</i>	DATE 8/20/03
DIRECTOR	CHIEF, DEVELOPMENT ENGINEERING DIVISION
<i>Carla Hanrahan</i>	DATE 8/20/03
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

DATE	NO.	REVISION
8/22/03	1	CHANGE OWNER NAME & USE

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 14196 FREDERICK ROAD
 301-725-0220

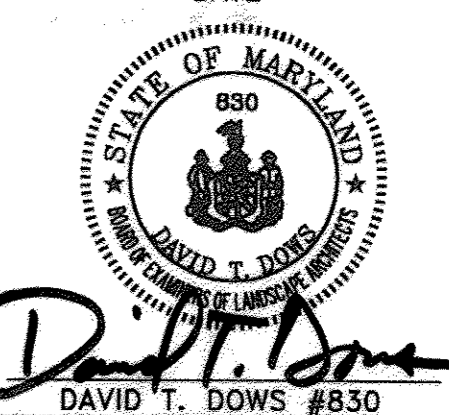
PROJECT
ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
FOREST CONSERVATION PLAN

Patton Harris Rust & Associates, PC
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: K.L.S.
DRAWN BY: K.L.S.
PROJECT NO. 22516/2-0/ENGR L305FCP
DATE: JULY 28, 2003
SCALE: 1" = 40'
DRAWING NO. 44 OF 51



SDP-03-90

FOREST CONSERVATION PROGRAM

I. OBJECTIVE: IT IS THE OBJECTIVE OF THE REFORESTATION PORTION OF THE PROPOSED WOODMONT ACADEMY TO REPLANT IN THE WETLANDS AND STREAM BUFFERS FOR MAXIMUM ENVIRONMENTAL BENEFIT.

II. PRESERVATION: FOREST PRESERVATION AREAS SHALL BE PERMANENTLY PROTECTED BY FOREST CONSERVATION EASEMENTS.

III. POST CONSTRUCTION MANAGEMENT PRACTICE: A TWO (2) YEAR POST-CONSTRUCTION AND MANAGEMENT PROGRAM TO ENSURE PROBABILITY OF A HIGH SURVIVAL RATE INCLUDES THE FOLLOWING:

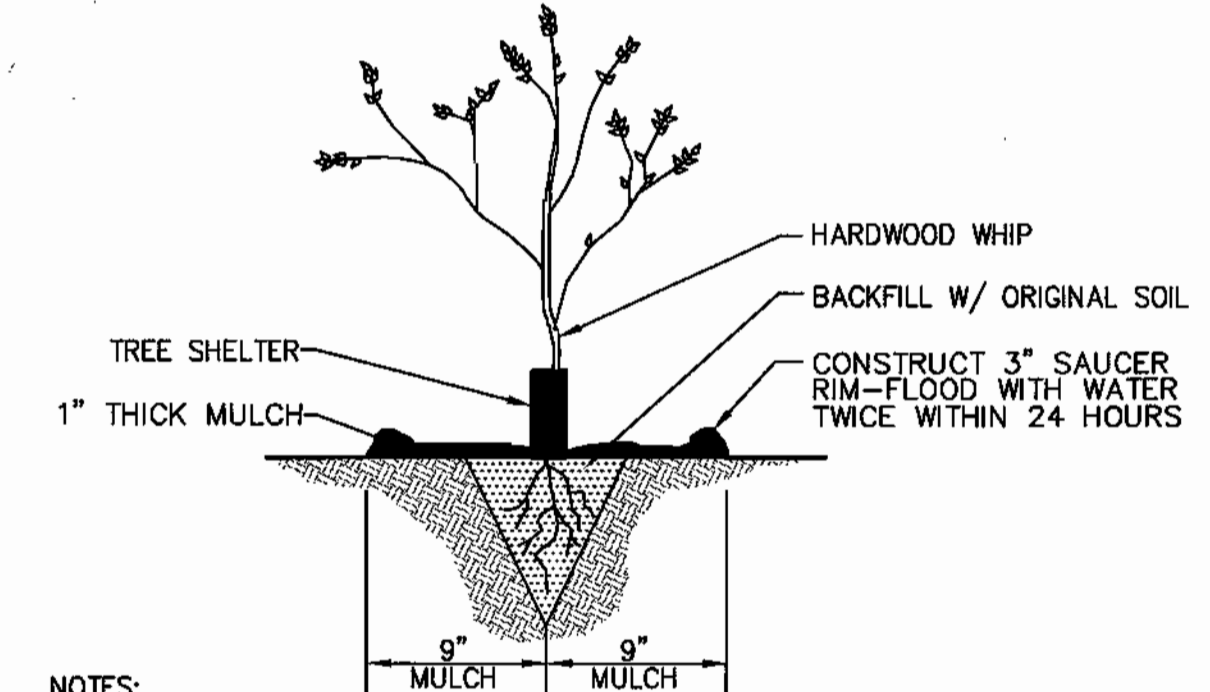
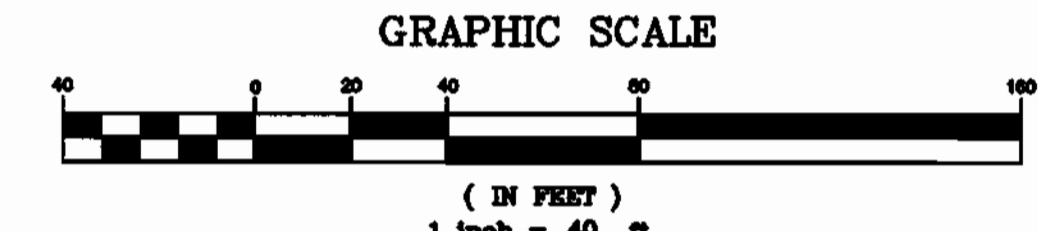
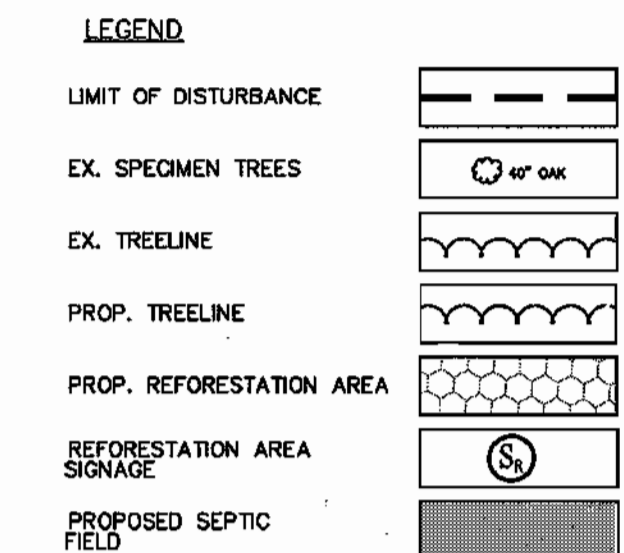
MAINTENANCE OF SIGNS, FENCES AND TREE PROTECTION DEVICES TO PREVENT UNWARRANTED INTRUSIONS AND DAMAGE.

CAREFUL REMOVAL OF ALL TEMPORARY STRUCTURES AFTER CONSTRUCTION.

ROUTINE INSPECTIONS OF FOREST CONSERVATION EASEMENTS.

Project Name: Woodmont Academy
 State File #:
 Date: November 25, 2002

Net Tract Area	Acres
A. Total Tract Area	A = 66.42
B. Other Deductions	B = 0.00
C. Net Tract Area - Net Tract Area = (A-B-C)	C = 66.42
Land Use Category: Institutional	
D. Reforestation Threshold (Net Tract Area X .15%)	D = 9.96
E. Conservation Threshold (Net Tract Area X .20%)	E = 13.28
Existing Forest Cover	
F. Existing Forest Cover within the Net Tract Area	F = 2.62
G. Existing Forest Cover (F) is greater than Conservation Threshold (E), then G = Existing Forest Cover (F) - Conservation Threshold (E). Otherwise G = 0	G = 0.00
Break Even Point	
H. Break Even (Amount of forest that must be retained so that no mitigation is required)	H = FALSE
I. If the area of forest above the Conservation Threshold (G) is greater than zero, then I = 0.2 X the area of forest above Conservation Threshold (G) + the Conservation Threshold (E)	I = 2.62
J. If the area of forest above the Conservation Threshold (G) is equal to zero, then J = Existing Forest Cover (F)	J = 2.62
K. Total Area of Forest to be Retained	K = 0.00
L. Total Area of Forest to be Cleared (J) - Existing Forest Cover (F)	L = 0.00
Planting Requirements	
M. If the Total Area of Forest to be Cleared (K) is at or above the Break Even Point (H), no planting is required and no further calculations are necessary (L=0, M=0, N=0, P=0)	M = 5.24
N. If not, calculate the planting requirement below	N = 0.00
O. Total Afforestation Required for clearing below minimum P = L + M - N	O = 5.24
P. Total Afforestation Required for unforested below minimum	P = 7.34
Q. Q = the Afforestation Threshold (D) - the Existing Forest Cover (F)	Q = 7.34
R. Total Planting Requirement R = P + Q	R = 12.58



NOTES:
 1. EXTREME CARE SHALL BE TAKEN TO INSURE RETAINED MOISTURE OF THE ROOTS. A MOIST CARRYING CONTAINER SHALL BE USED WHEN TRANSPORTING WHIPS TO THE FIELD.
 2. DO NOT SUBMERGE ROOTS OF WHIPS IN WATER OVERNIGHT.

WHIP PLANTING W/ TREE SHELTER DETAIL
 NOT TO SCALE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
Penny Boster 8/23/02
 COUNTY HEALTH OFFICER
 HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Mark D. Wyle 8/28/02
 DIRECTOR

[Signature] 9/10/02
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 8/21/02
 CHIEF, DIVISION OF LAND DEVELOPMENT

OWNER / DEVELOPER
 WOODMONT EDUCATIONAL FOUNDATION, INC.
 10817 DAVIS AVENUE
 WOODSTOCK, MARYLAND 21163
 410-203-0819

PROJECT
WOODMONT ACADEMY
 PHASE 1 - PRIVATE SCHOOL

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
FOREST CONSERVATION PLAN

Patton Harris Rust & Associates, p.c.
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DESIGNED BY: K.L.S.
 DRAWN BY: K.L.S.
 PROJECT NO: 22516/2-0/ENGR L304FCP
 DATE: JULY 28, 2003
 SCALE: 1" = 40'
 DRAWING NO. 45 OF 51

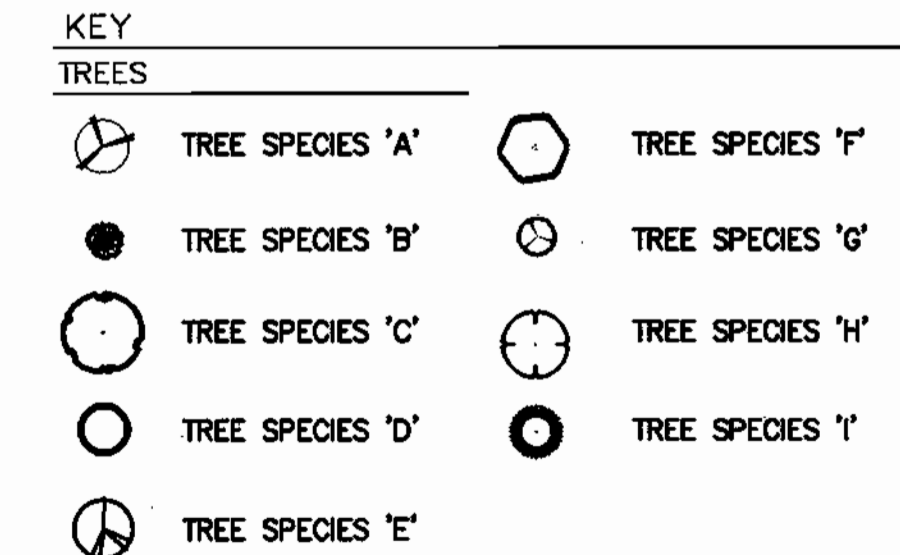
REFORESTATION PLANT LISTS

QUANTITIES	SCIENTIFIC / COMMON NAME	SIZE	ROOT	REMARKS
367	LIRIODENDRON TULIPIFERA / TULIP TREE		BARE ROOT WITH TREE SHELTERS	PLANT 11' O.C. RANDOM PATTERN
367	FRAXINUS AMERICANA			
367	ACER RUBRUM / RED MAPLE			
372	QUERCUS ALBA / WHITE OAK			
367	ACER PSEUDOPLATANUS / Sycamore			
367	QUERCUS COCCINEA / SCARLET OAK			
367	QUERCUS ALBA / WHITE OAK			
367	QUERCUS PRINUS / CHESTNUT OAK			
367	NYSSA SYLVATICA / BLACK GUM			

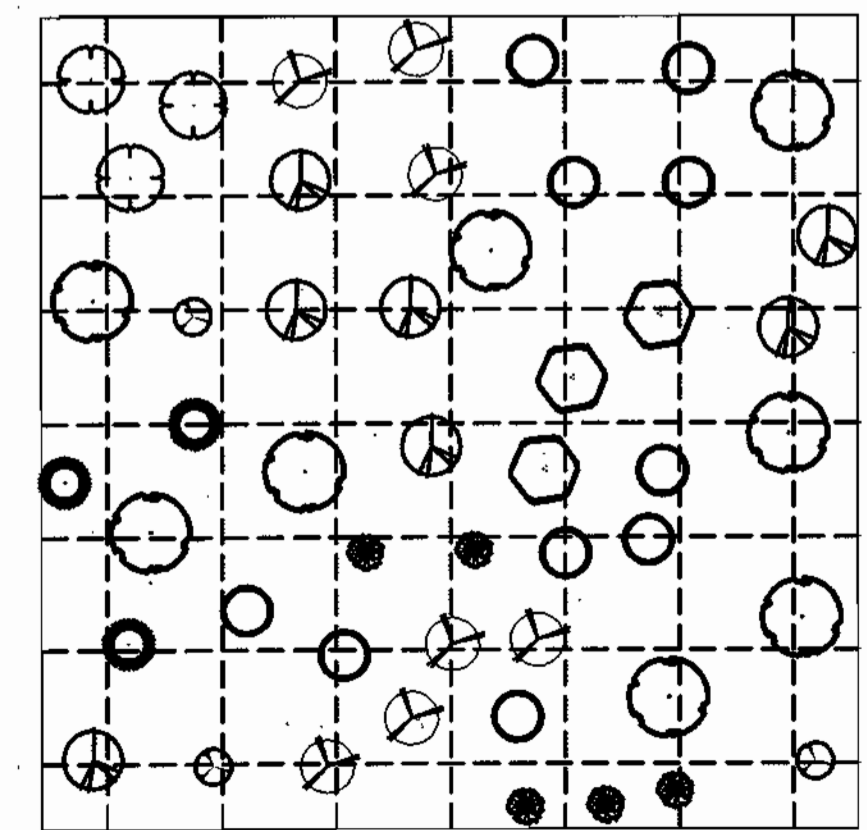
TOTAL: 3308
 NOTE: 18,000 SF OF REFORESTATION HAS BEEN BONDED AS PART OF THE LANDSCAPE PLAN TO MEET PERIMETER LANDSCAPING REQUIREMENTS. (18 SHADE @ 400 SF AND 48 EVERGREEN @ 225 SF)

MATCH LINE SEE SHEET 44

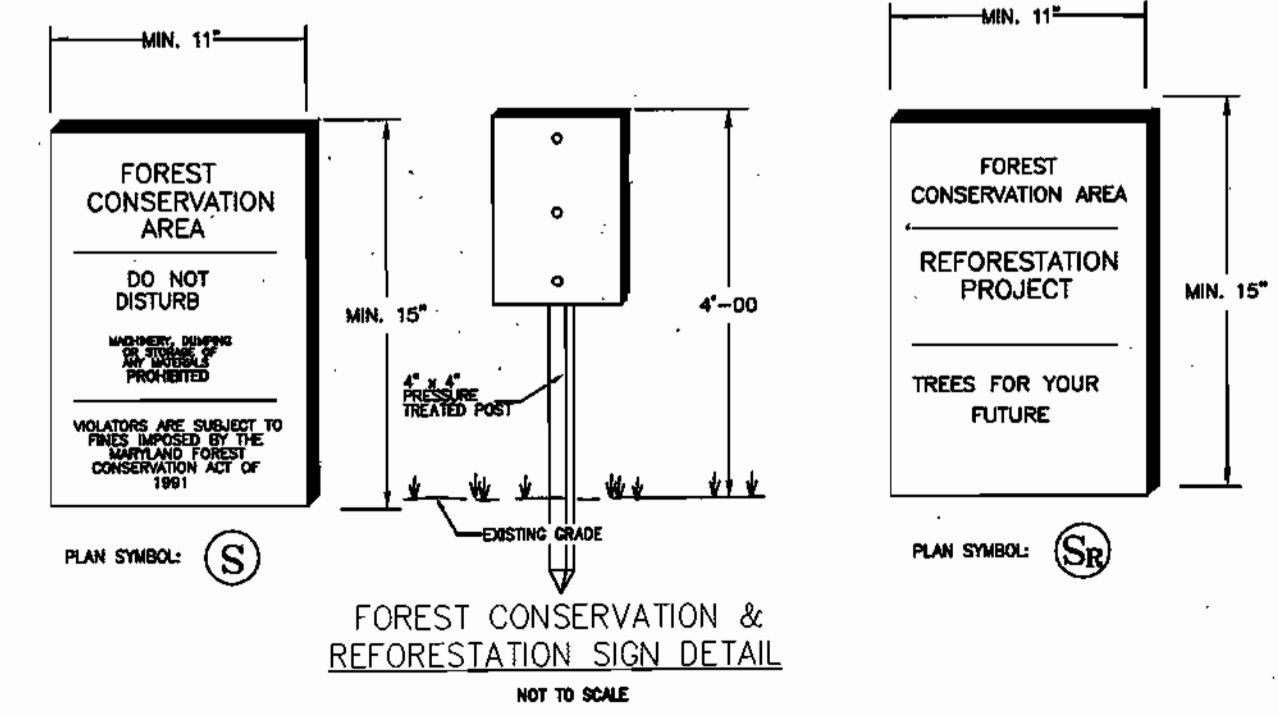
MATCH LINE SEE SHEET 43



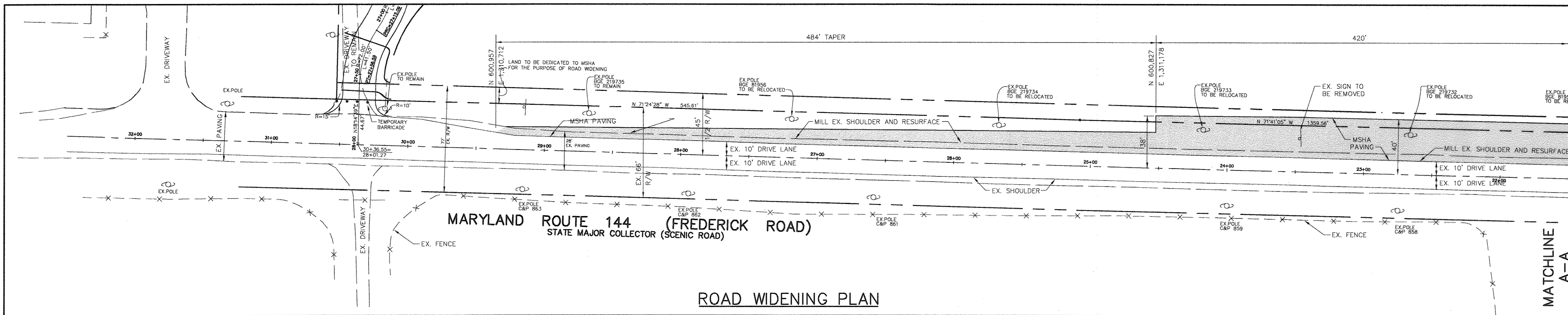
NOTES:
 1. RANDOMLY LOCATE GROUPS OF PLANT SPECIES, TAKING CARE NOT TO PLANT IN SUCCESSION MORE THAN 4 OF THE SAME SPECIES.
 2. THIS DETAIL PROVIDES A HYPOTHETICAL, GRAPHIC DEPICTION OF A PROPOSED LAYOUT FOR NINE DIFFERENT TREE SPECIES (A-I). IT IS NOT MEANT TO BE FOLLOWED EXACTLY. THE PURPOSE IS TO ACHIEVE THE APPEARANCE OF RANDOM SPACING. SEE PLANT LIST FOR ACTUAL NUMBER OF PLANT SPECIES.
 3. SEE PLANT LIST FOR ON-CENTER SPACING REQUIREMENTS.



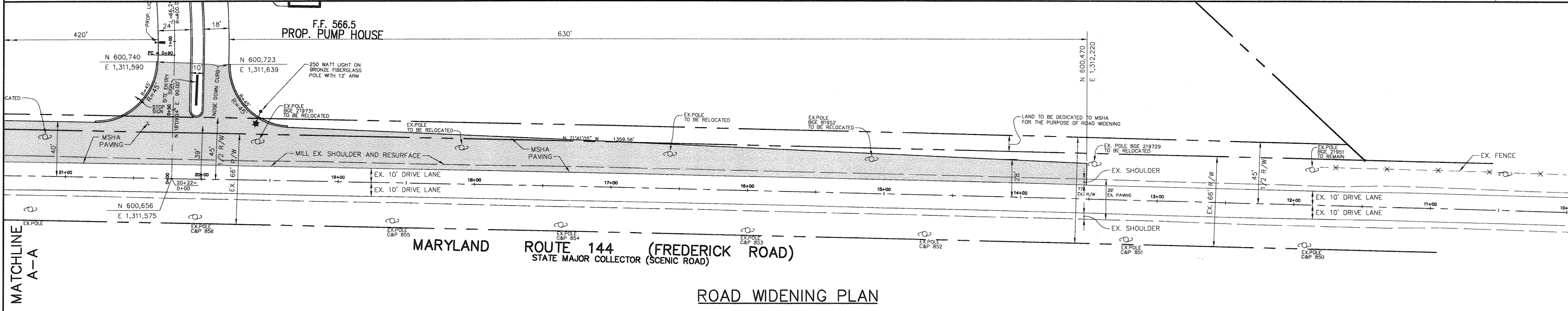
RANDOM PLANTING LAYOUT DETAIL
 NOT TO SCALE



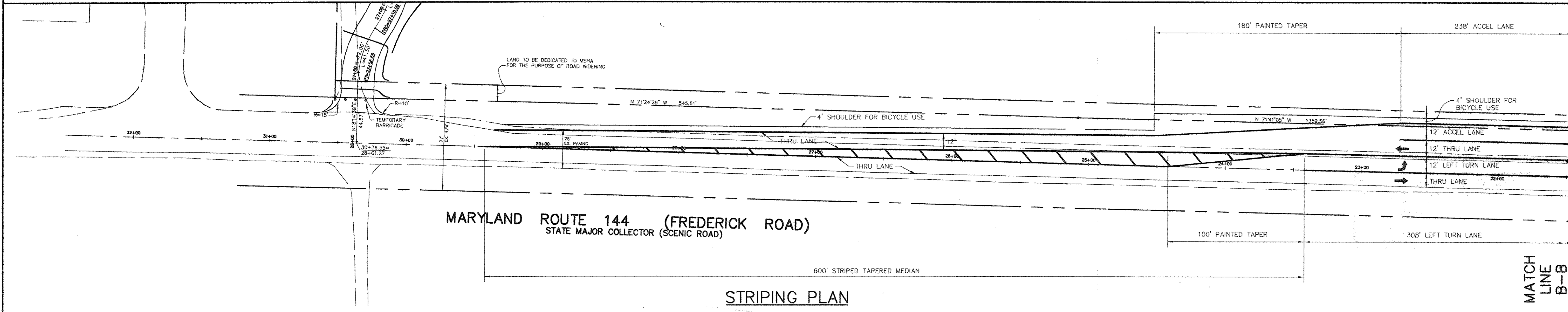
NOTES:
 1. SIGNAGE SHALL BE LOCATED ON FOREST CONSERVATION / REFORESTATION / AFFORESTATION EASEMENT BORDER.
 2. SEE PLAN FOR SPACING.



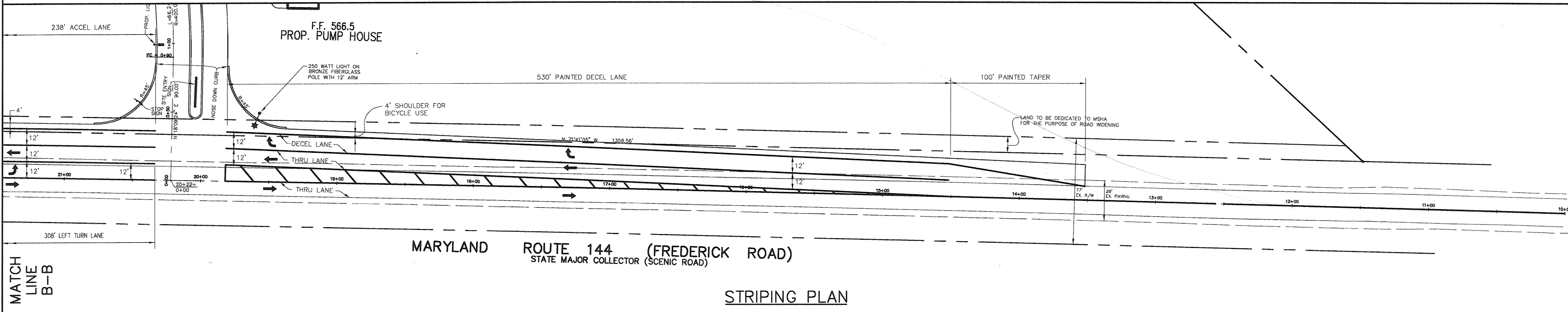
ROAD WIDENING PLAN



ROAD WIDENING PLAN



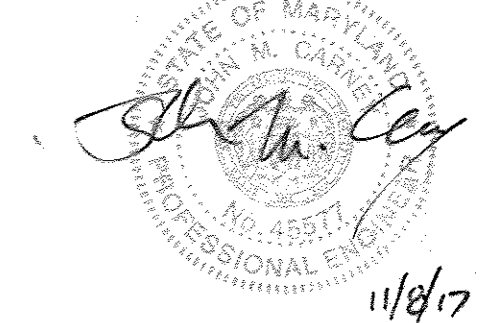
STRIPING PLAN



STRIPING PLAN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577 Expiration Date: 6/9/18

FOR BEST REV. ONLY



NOTE: FOR DETAILS AND CROSS-SECTIONS, SEE SHEET 49.

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS	DATE
<i>Howard County Health Officer</i>	8/22/03
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	DATE
<i>Director</i>	8/20/03
DIRECTOR	
<i>Chief, Development Engineering Division</i>	9/24/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION	
<i>Chief, Division of Land Development</i>	8/27/03
CHIEF, DIVISION OF LAND DEVELOPMENT	
DATE	REVISION
3.27.12	CHANGE OWNER NAME & USE
OWNER / DEVELOPER	
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. 14196 FREDERICK ROAD 301-725-0220	

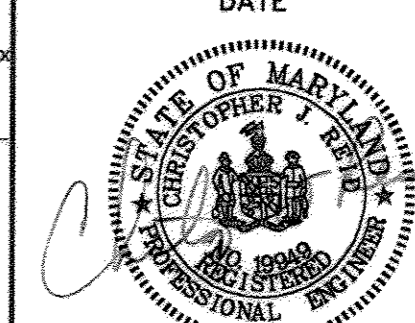
PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH
 PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

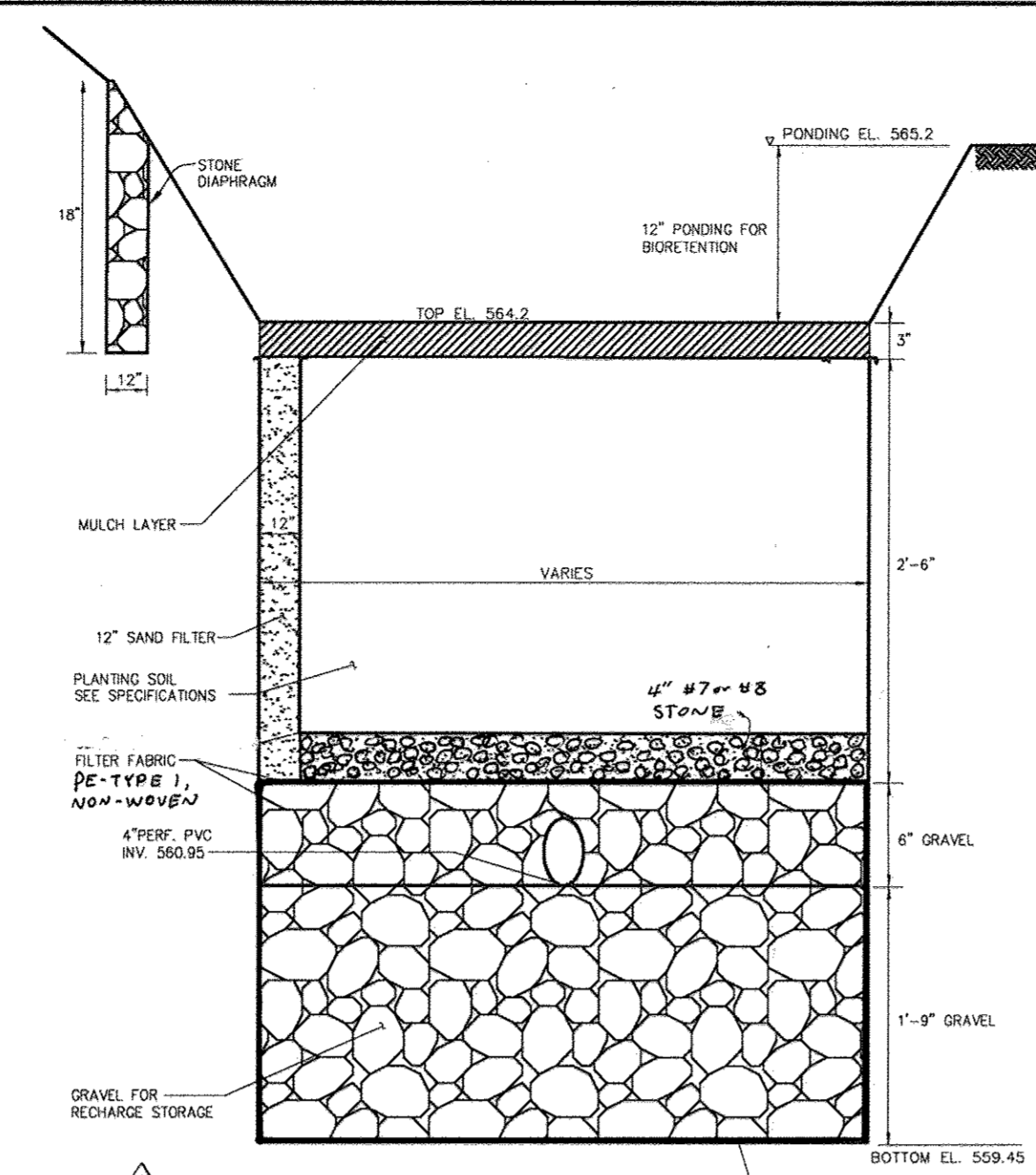
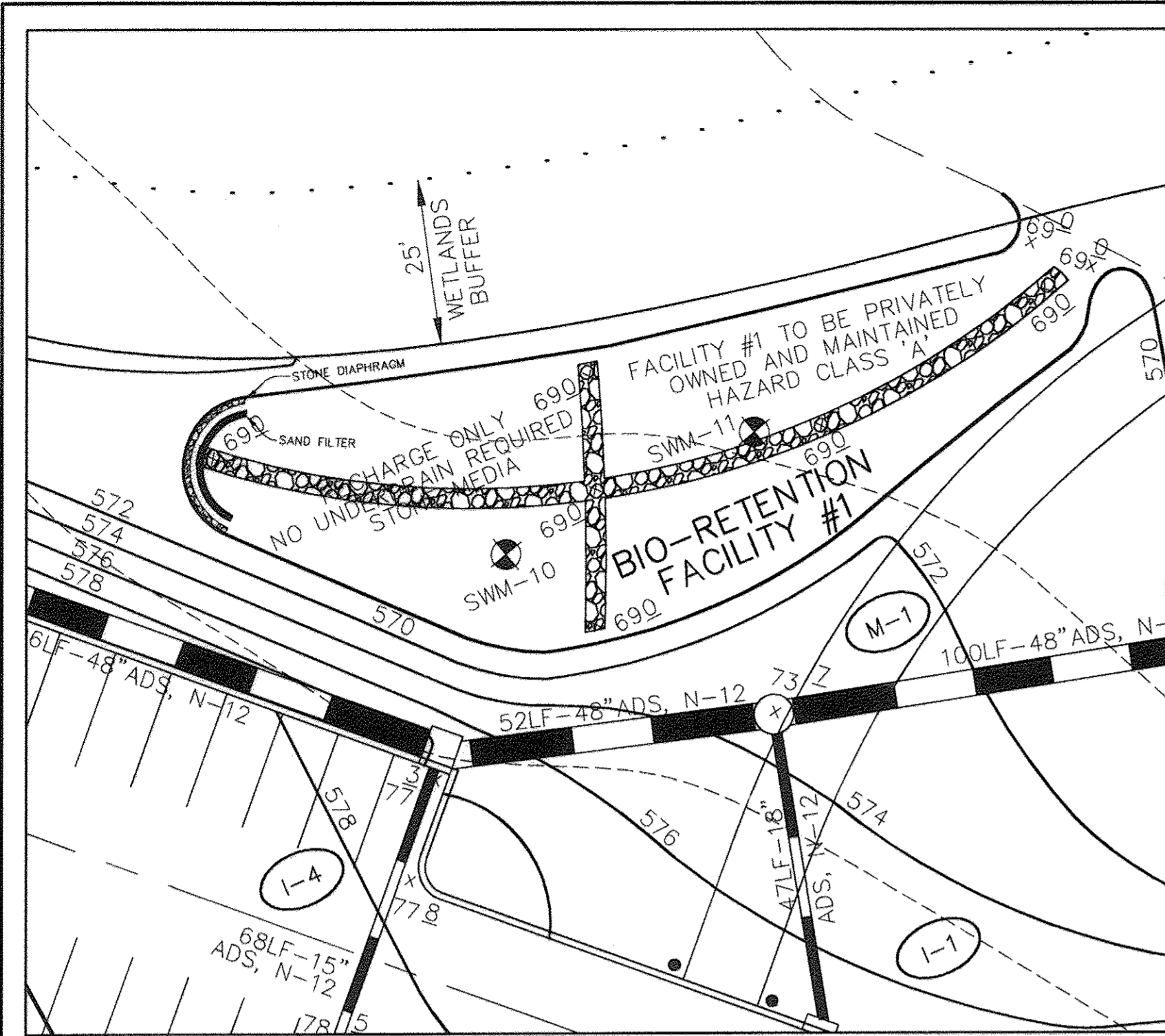
TITLE
 ROAD WIDENING AND STRIPING PLAN

Patton Harris Rust & Associates, PC
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

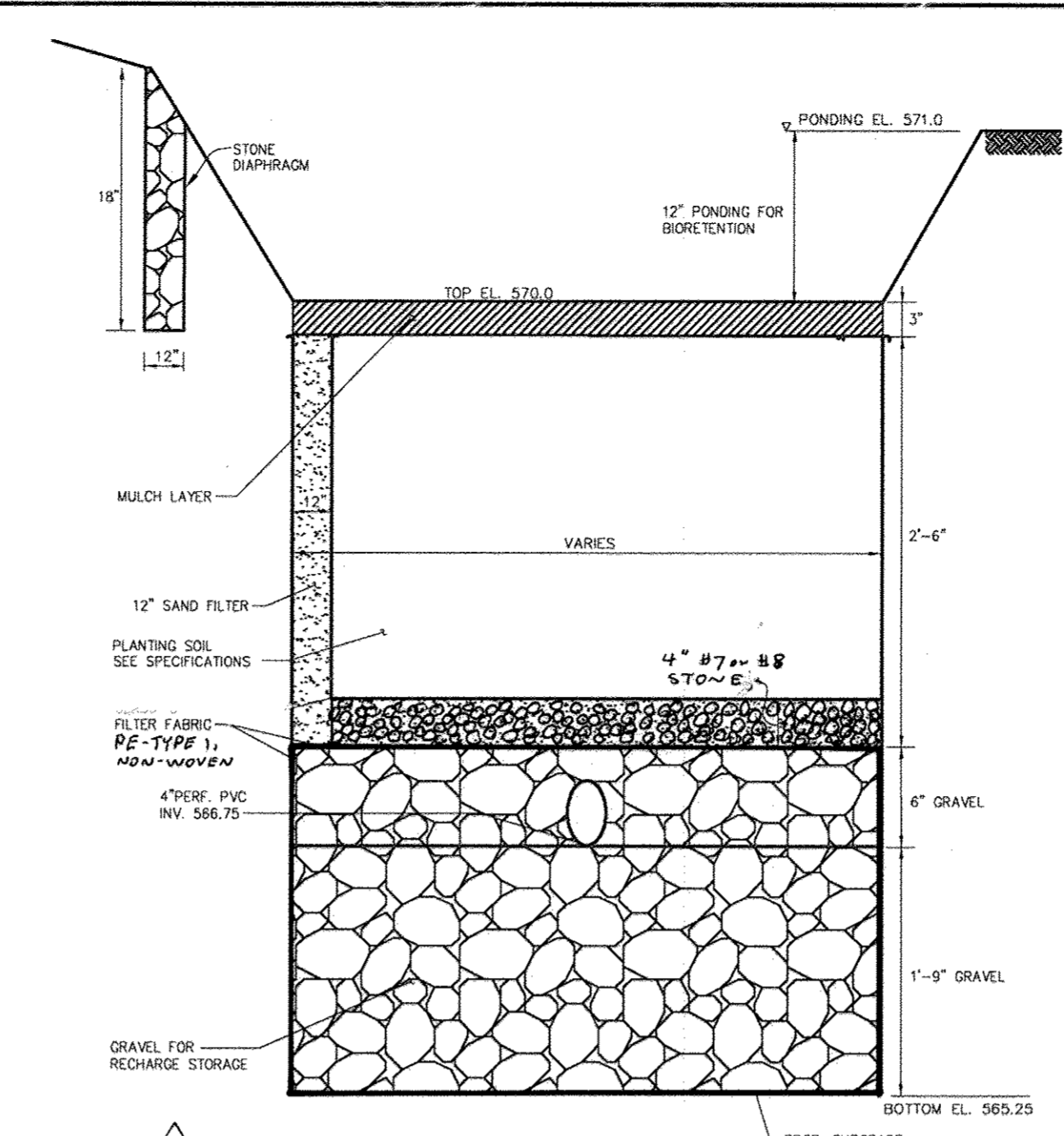
DATE	DESIGNED BY: C.J.R.
7.28.03	DRAWN BY: DAM
PROJECT NO: 22516/2-0/ENGR C-RD-1	DATE: JULY 28, 2003
SCALE: 1" = 40'	DRAWING NO. 46 OF 51



CHRISTOPHER J. REID #19949
 SDP-03-90

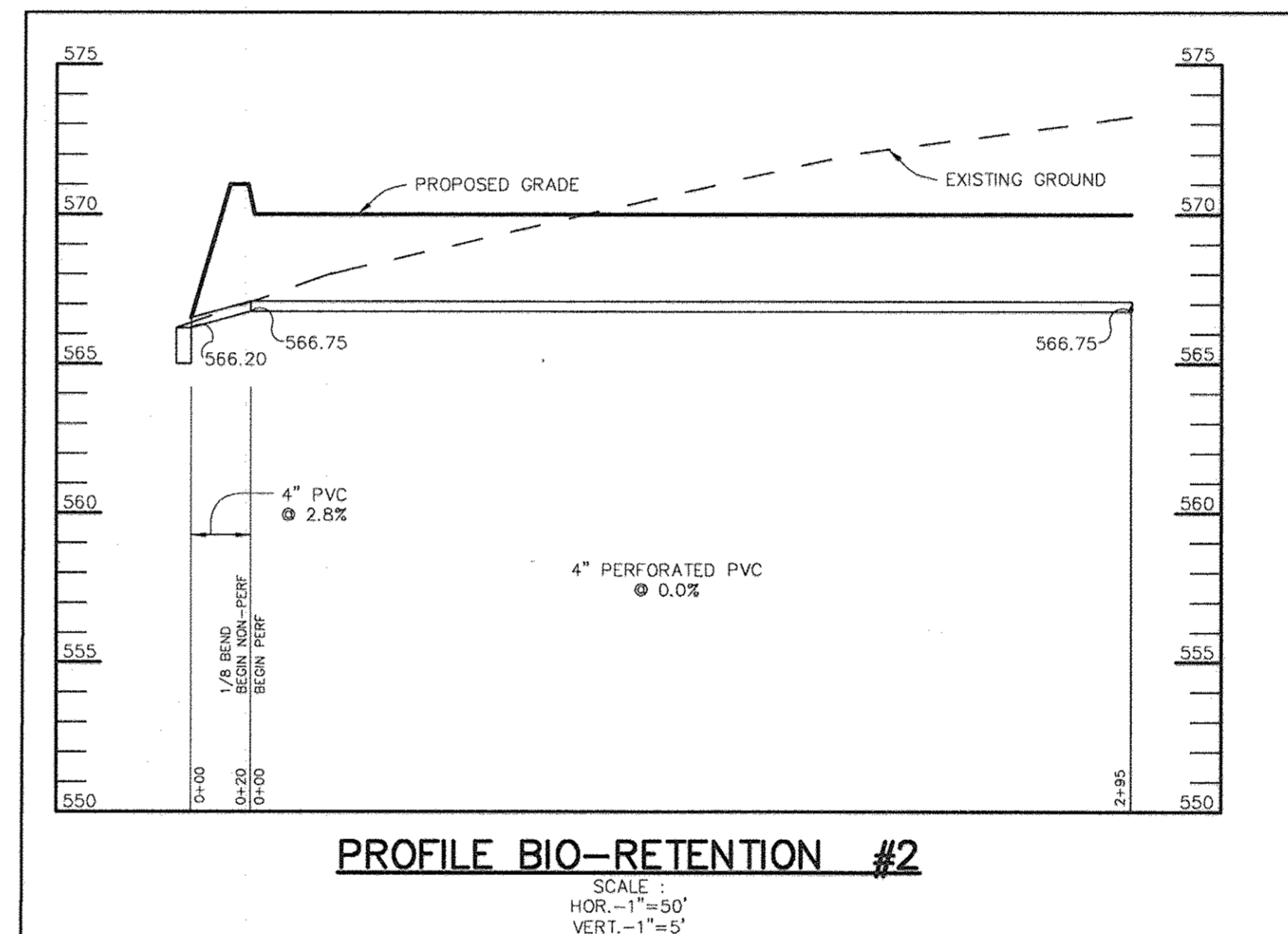
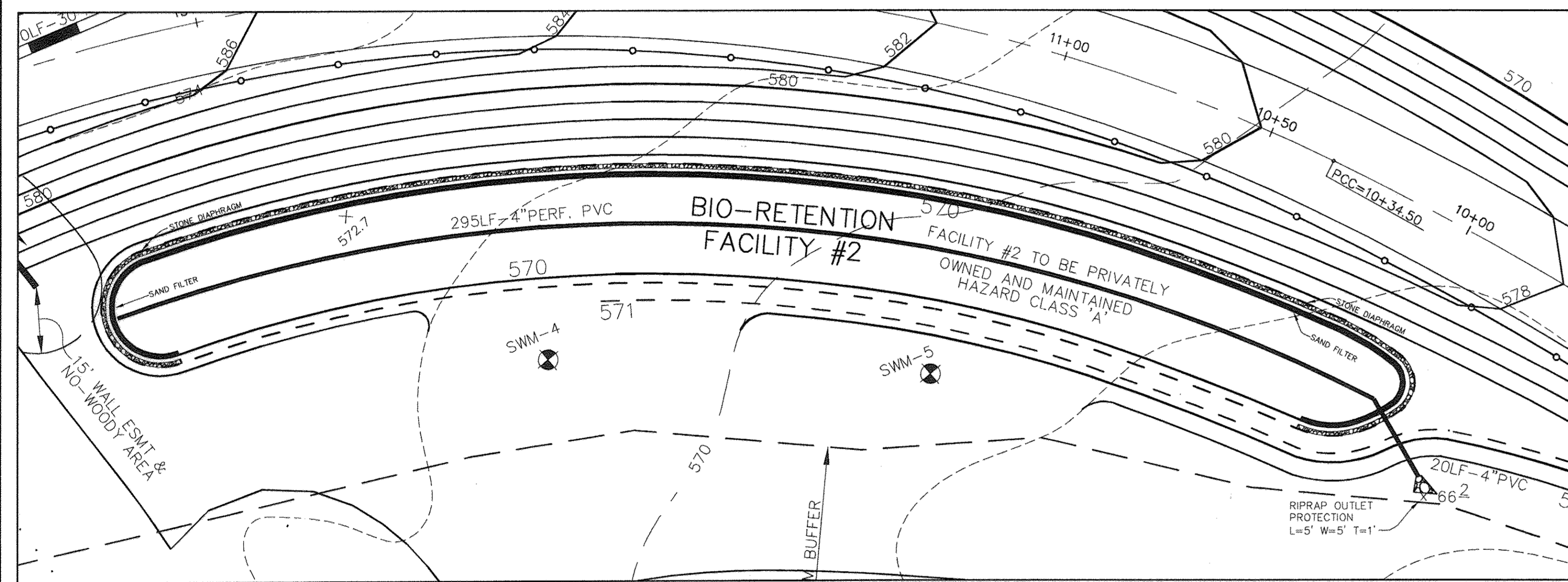


BIORETENTION FACILITY #3 TYPICAL SECTION

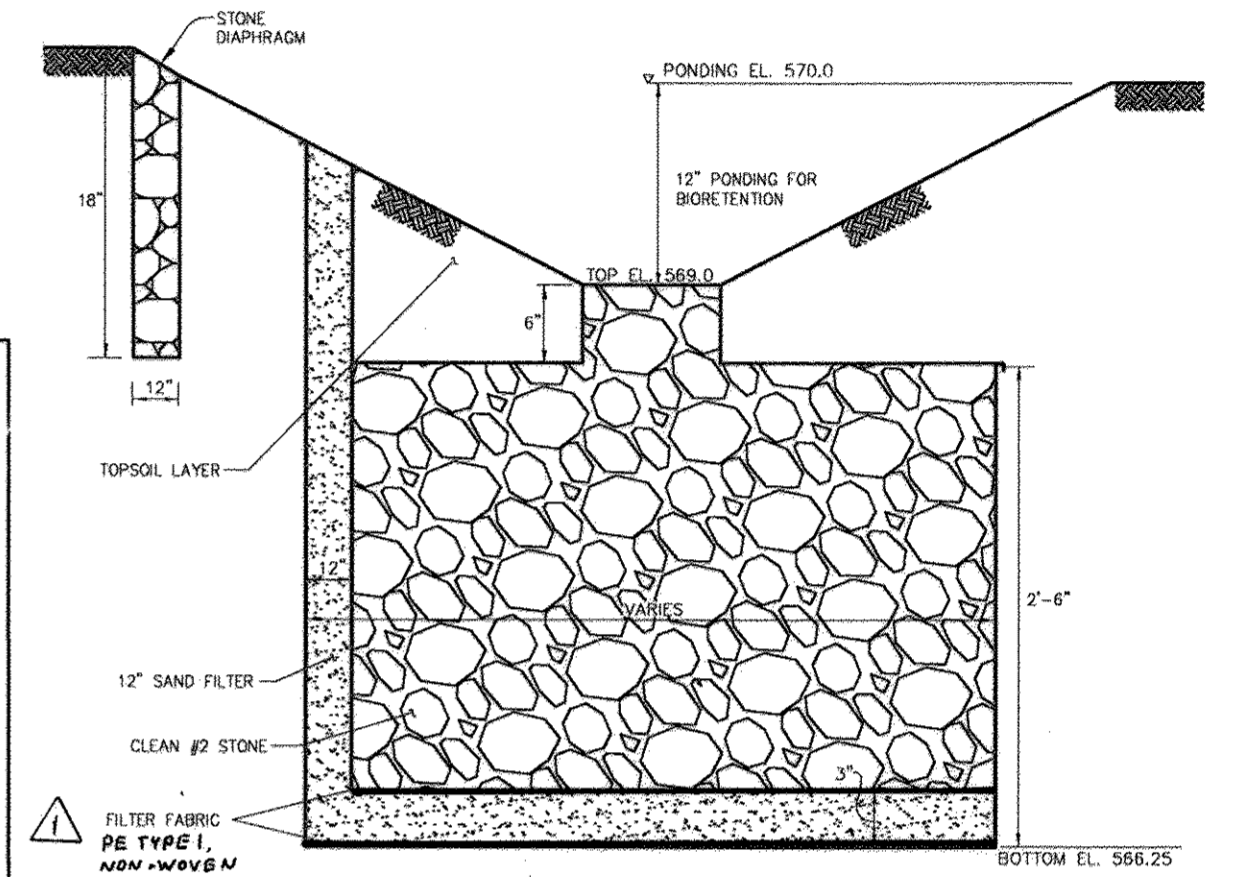


BIORETENTION FACILITY #2 TYPICAL SECTION

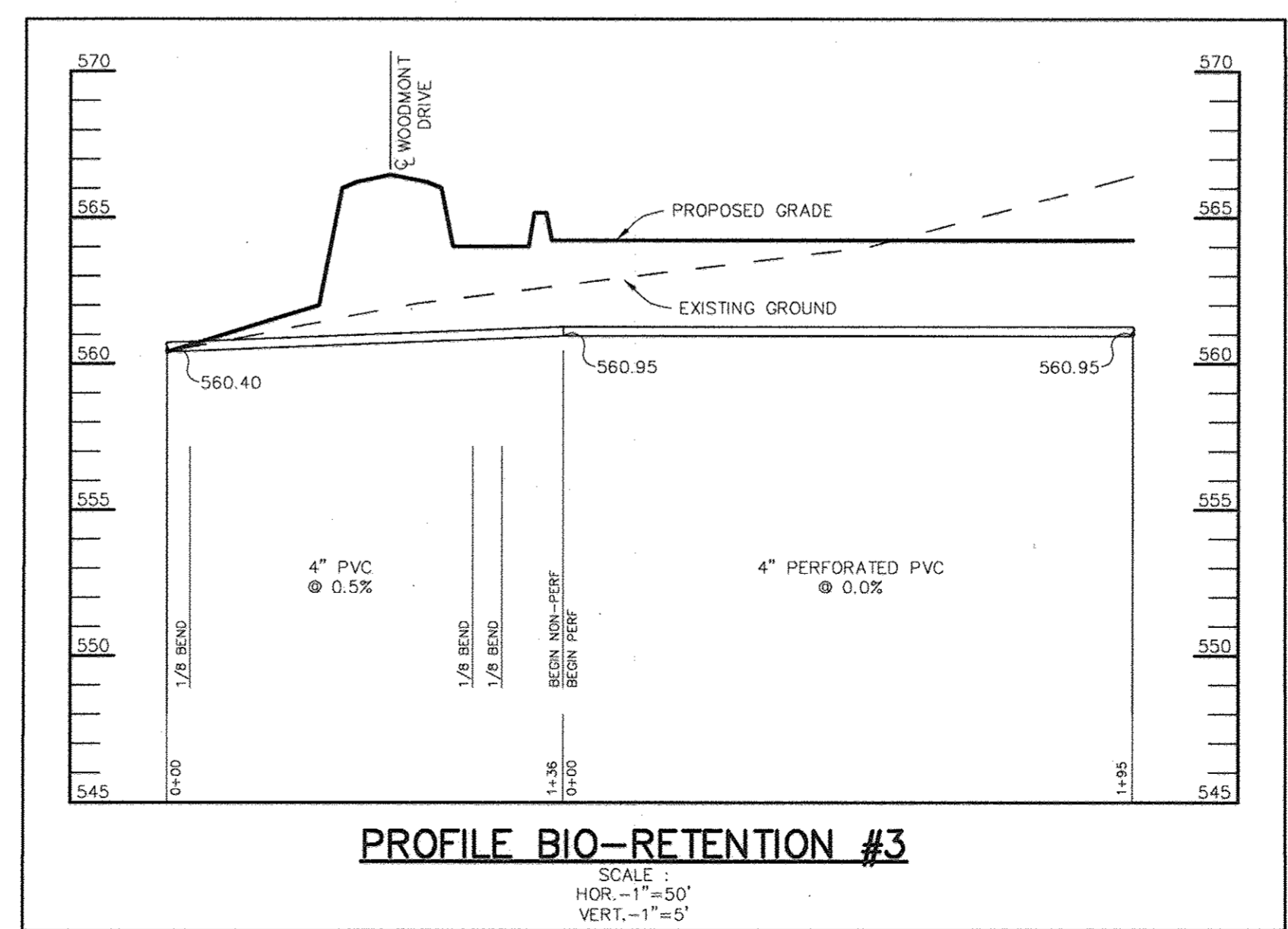
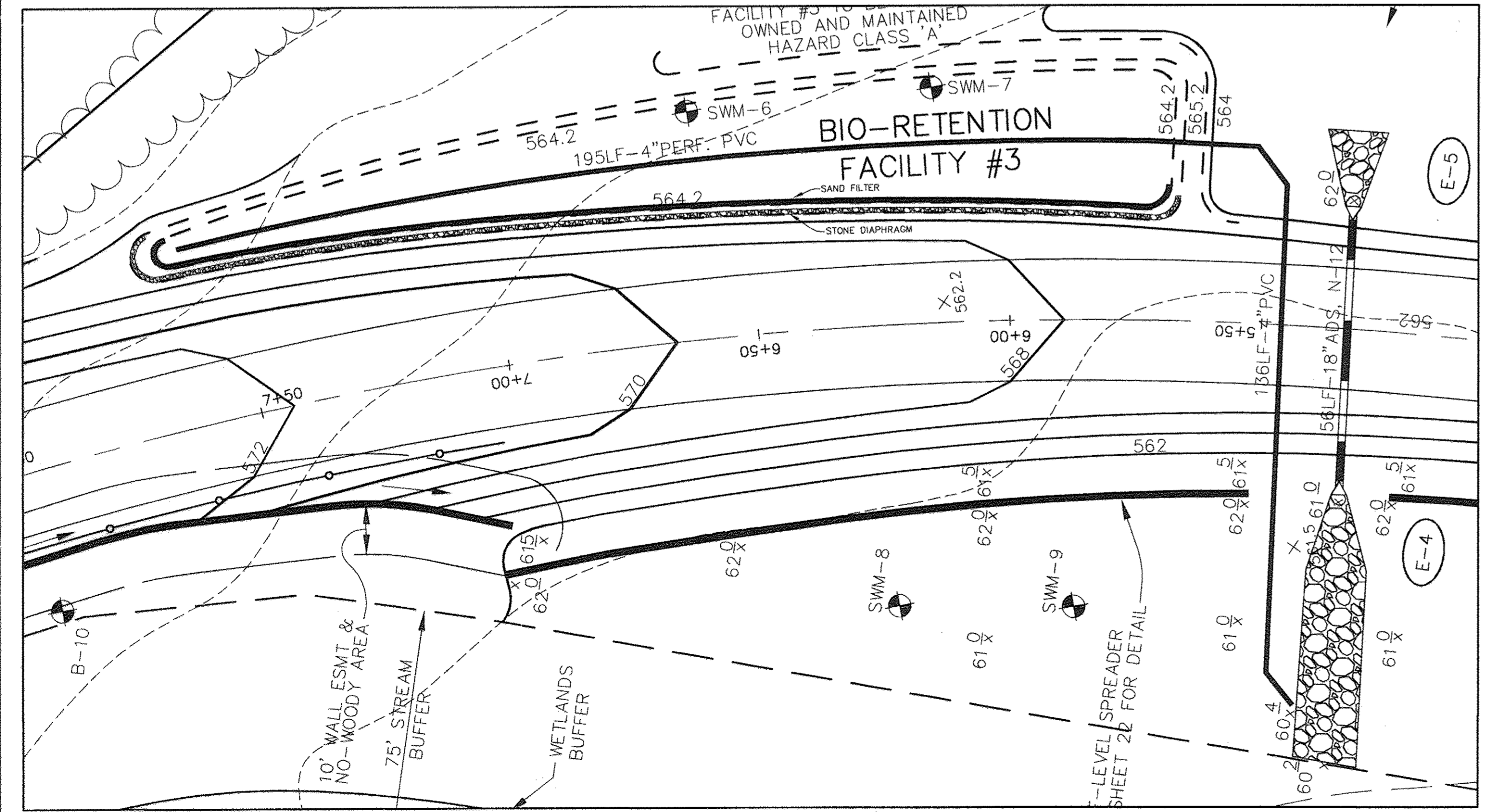
Table: Materials Specifications for Bioretention			
MATERIAL	SPECIFICATIONS	SIZE	NOTES
PLANTINGS	SEE LANDSCAPE PLAN SHEET	N/A	
PLANTING SOIL (2.5' TO 4' DEEP)	SAND 35 - 60 % SILT 30 - 55 % CLAY 10 - 25 %	N/A	USDA SOIL TYPES LOAMY SAND, SANDY LOAM, OR LOAM
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM
STONE DIAPHRAM AND CURTAIN DRAIN	PEA GRAVEL: ASTM-D-448 ORNAMENTAL STONE: WASHED COBBLES	PEA GRAVEL: No. 7	
GEOTEXTILE	PE TYPE I, NON-WOVEN	N/A	FOR USE ENCLOSED UNDER DRAIN GRAVEL ONLY
UNDERDRAIN GRAVEL	AASHTO M-43	# 57 STONE	
UNDERDRAIN PIPE	F 758, TYPE PS 28 OR AASHTO M-278	4" RIGID SCHEDULE 40 PVC OR SDR35	3/8" PERF. @ 6" O/C, 4 HOLES PER ROW OR SLOTTED PIPE. WRAP PIPE WITH 2' GALVANIZED HARDWARE CLOTH
SAND	AASHTO M-6 or ASTM C-33	0.02" to 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRANSTONE #10 ARE NOT ACCEPTABLE. NO CALCIUM CARBONATE OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUST" CAN BE USED FOR SAND.



PROFILE BIO-RETENTION #2



BIORETENTION FACILITY #1 TYPICAL SECTION



PROFILE BIO-RETENTION #3

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-18

FOR BGT
 Rev.
 ONLY

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

David L. Wagoner 9/24/05
 DIRECTOR DATE

Chris Hamilton 8/23/05
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ DATE

Chris Hamilton 8/23/05
 CHIEF, DIVISION OF LAND DEVELOPMENT HB/ DATE

9-27-17 CHANGE OWNER + PROJECT NAME
 7/5/05 UPDATED BIORETENTION SPECIFICATIONS

DATE	NO.	REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
BIO-RETENTION DETAILS

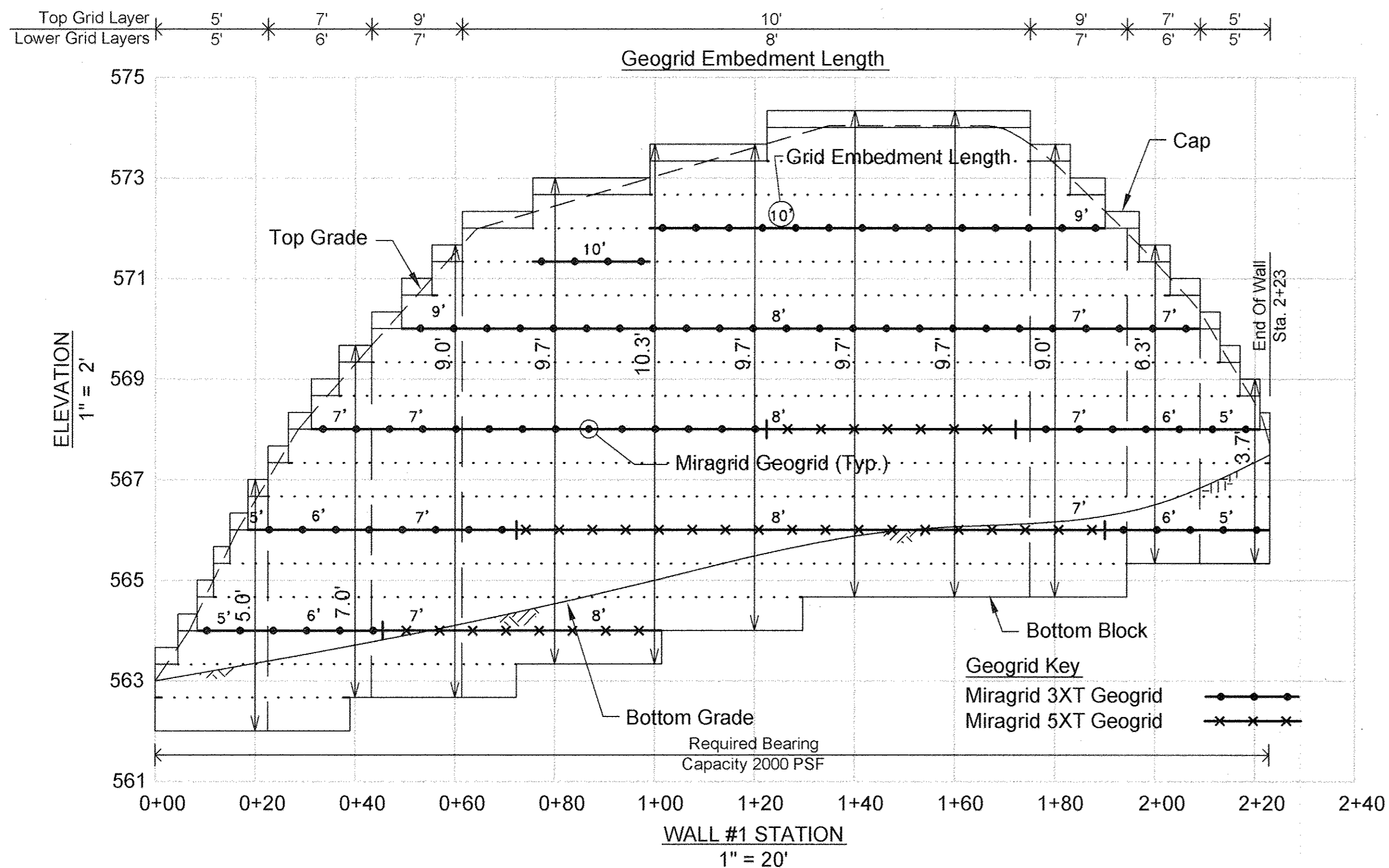
Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

PHRA

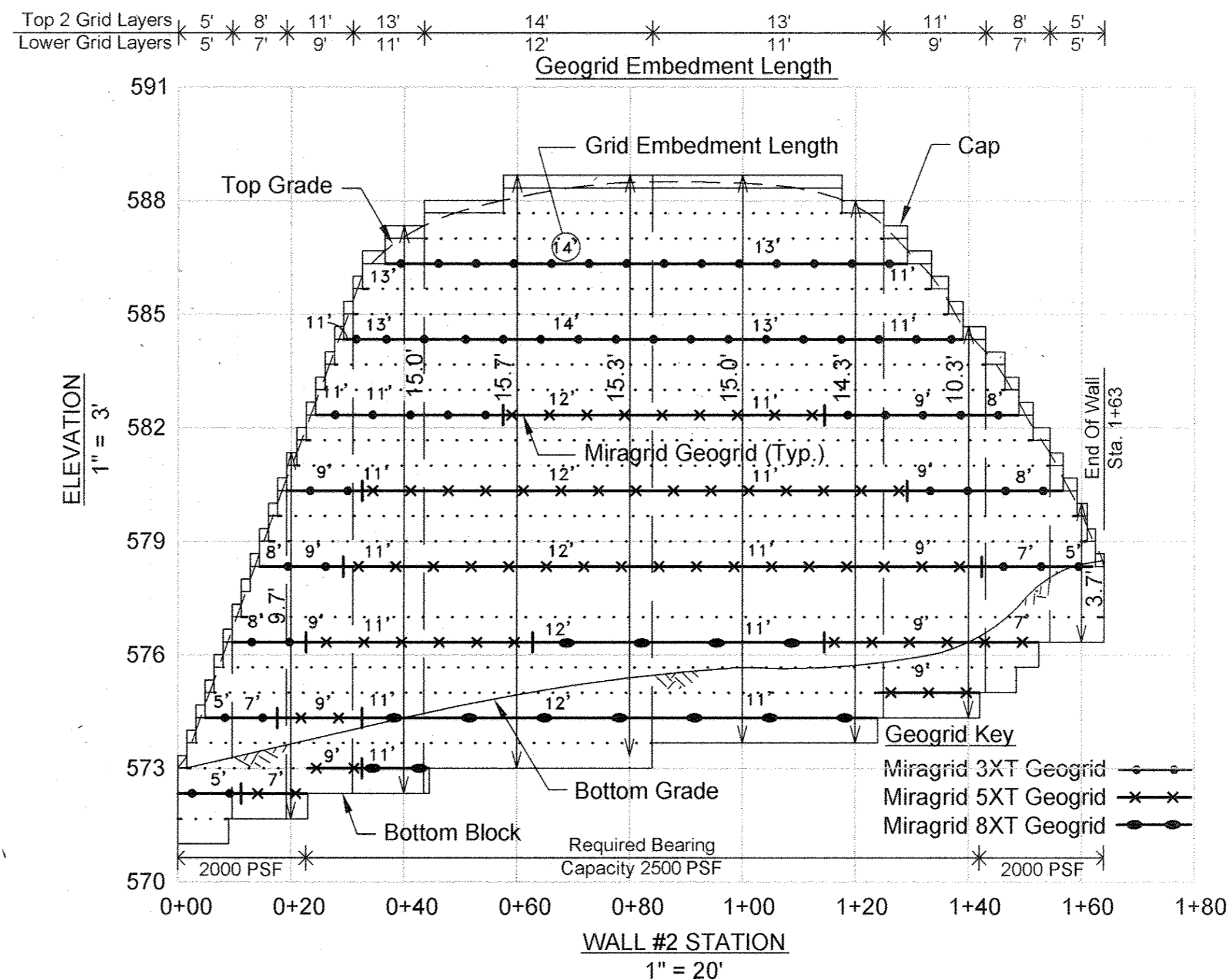
7.28.03
 DATE

DESIGNED BY: C.J.R.
 DRAWN BY: DAM
 PROJECT NO: 22516/2-0/ENGR
 DETAILS
 DATE: JULY 28, 2003
 SCALE: 1" = 20'
 DRAWING NO. 47 OF 51

CHRISTOPHER J. REID #19949
 SDP-03-90



WALL #1 ELEVATION



WALL #2 ELEVATION

- NOTES:
- No trees shall be planted within 10 feet of the top of the retaining wall.
 - Retaining walls shall only be constructed under the observation of a registered professional engineer and a (NICENT, WACEL, or equiv.) certified soils technician.
 - The required bearing pressure beneath the wall system shall be verified in the field by a certified soils technician. Testing documentation must be provided to the Howard County Inspector prior to start of construction. The required bearing test shall be the Dynamic Cone Penetrometer test ASTM STP-399.
 - The suitability of fill material shall be confirmed by the on-site soils technician. Each 8" lift must be compacted to a minimum 95% standard proctor density and the testing report shall be made available to the Howard County Inspector upon completion of construction.
 - One soil boring is required every one hundred feet along the length of the wall. Copies of the boring reports shall be provided to the Howard County Inspector prior to the start of the construction.

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-18

FOR BEI
 REV.
 ONLY



SPECIFICATIONS

KEYSTONE MODULAR CONCRETE BLOCK RETAINING WALL

PART 1: GENERAL

- 1.01 Description**
 A. Work shall consist of furnishing and construction of a KEYSTONE Retaining Wall System in accordance with these specifications and in reasonably close conformity with the lines, grades, design, and dimensions shown on the plans.
 B. Work includes preparing foundation soil, furnishing and installing leveling pad, unit drainage fill and backfill to the lines and grades shown on the construction drawings.
 C. Work includes furnishing and installing geogrid soil reinforcement of the type, size, location, and lengths designated on the construction drawings.

- 1.02 Delivery, Storage and Handling**
 A. Contractor shall check all materials upon delivery to assure that the proper type, grade, color, and certification has been received.
 B. Contractor shall protect all materials from damage due to job site conditions and in accordance with manufacturer's recommendations. Damaged materials shall not be incorporated into the work.

PART 2: PRODUCTS

- 2.01 Modular Concrete Retaining Wall Units**
 A. Modular concrete units shall conform to the following architectural requirements:
 face color - concrete gray - standard manufacturers' color may be specified by the Owner.
 face finish - sculptured rock face in angular tri-planer configuration. Other face finishes will not be allowed without written approval of Owner.
 bond configuration - running with bands nominally located at midpoint vertically adjacent units, in both straight and curved alignments.
 B. Proposed surfaces of units shall be free of chips, cracks or other imperfections when viewed from a distance of 10 feet under diffused lighting.
 C. Modular concrete materials shall conform to the requirements of ASTM C1372 - Standard Specifications for Segmental Retaining Wall Units.
 D. Modular concrete units shall conform to the following structural and geometric requirements measured in accordance with appropriate references:
 compressive strength = 3000 psi minimum;
 absorption = 8% maximum (6% in northern states) for standard weight aggregates;
 dimensional tolerances = ± 1/8" from nominal unit dimensions not including rough split face, ± 1/16" unit height - top and bottom planes;
 unit size - 8" (H) x 18" (W) x 12" (D) minimum;
 unit weight - 75 lbs/unit minimum for standard weight

- aggregates:
 inter-unit shear strength - 1000 psi minimum at 2 psi normal pressure;
 geogrid/unit peak connection strength - 1000 psi minimum at 2 psi normal force.
 D. Modular concrete units shall conform to the following constructability requirements:
 vertical setback = 1/8" per course (near vertical) or 1" per course per the design.
 alignment and grid positioning mechanism - fiberglass pins, two per unit minimum;
 maximum horizontal gap between erected units shall be 1/2 inch.

- 2.02 Shear Connectors**
 A. Shear connectors shall be 1/2 inch diameter thermostat isothalic polyester resin-protuded fiberglass reinforcement rods or equivalent to provide connection between vertically and horizontally adjacent units.
 Strength of shear connectors between vertical adjacent units shall be applicable over a design temperature of 10 degrees F to + 100 degrees F.
 B. Shear connectors shall be capable of holding the geogrid in the proper design position during grid pre-tensioning and backfilling.

- 2.03 Base Leveling Pad Material**
 A. Material shall consist of a compacted #57 crushed stone base as shown on the construction drawings.
2.04 Unit Drainage Fill
 A. Unit drainage fill shall consist of #57 crushed stone.
 B. One cubic foot, minimum, of drainage fill shall be used for each square foot of wall face. Drainage fill shall be placed within cores of, between, and behind units to meet this requirement.
2.05 Reinforced Backfill
 A. Reinforced backfill shall type SM, be free of debris and meet the following gradation tested in accordance with ASTM D-422 and meet other properties shown on the plan.

Sieve Size	Percent Passing
2 inch	100-75
3/4 inch	100-75
No. 40	0-50
No. 200	0-35

- Plasticity Index (PI) < 15 and Liquid Limit < 40 per ASTM D-4318
 B. Material can be site excavated soils where the above requirements can be met. Unsuitable soils for backfill (high plastic clays or organic soils) shall not be used in the reinforced soil mass.

2.06 Geogrid Soil Reinforcement

- A. Geosynthetic reinforcement shall consist of geogrids manufactured specifically for soil reinforcement applications and shall be manufactured from high tenacity polyester yarn.
2.07 Drainage Pipe
 A. The drainage pipe shall be perforated corrugated HDPE pipe manufactured in accordance with ASTM D-1248.

PART 3: EXECUTION

- 3.01 Excavation**
 A. Contractor shall excavate to the lines and grades shown on the construction drawings. Owner's representative shall be responsible for inspecting and approving the excavation prior to placement of leveling material or fill soils.
3.02 Base Leveling Pad
 A. Leveling pad material shall be placed to the lines and grades shown on the construction drawings, to a minimum thickness of 6 inches and extend laterally a minimum of 6" in front and behind the modular wall unit.
 B. Leveling pad shall be prepared to insure full contact to the base surface of the concrete units.

- 3.03 Modular Unit Installation**
 A. First course of units shall be placed on the leveling pad at the appropriate line and grade. Alignment and level shall be checked in all directions and insure that all units are in full contact with the base and properly seated.
 B. Place the front of units side-by-side. Do not leave gaps between adjacent units. Layout of corners and curves shall be in accordance with manufacturer's recommendations.
 C. Install shear/connecting devices per manufacturer's recommendations.
 D. Place and compact drainage fill within and behind wall units. Place and compact backfill soil behind drainage fill. Follow wall erection and drainage fill closely with structure backfill.
 E. Maximum stacked vertical height of wall units, prior to unit drainage fill and backfill placement and compaction, shall not exceed three courses.

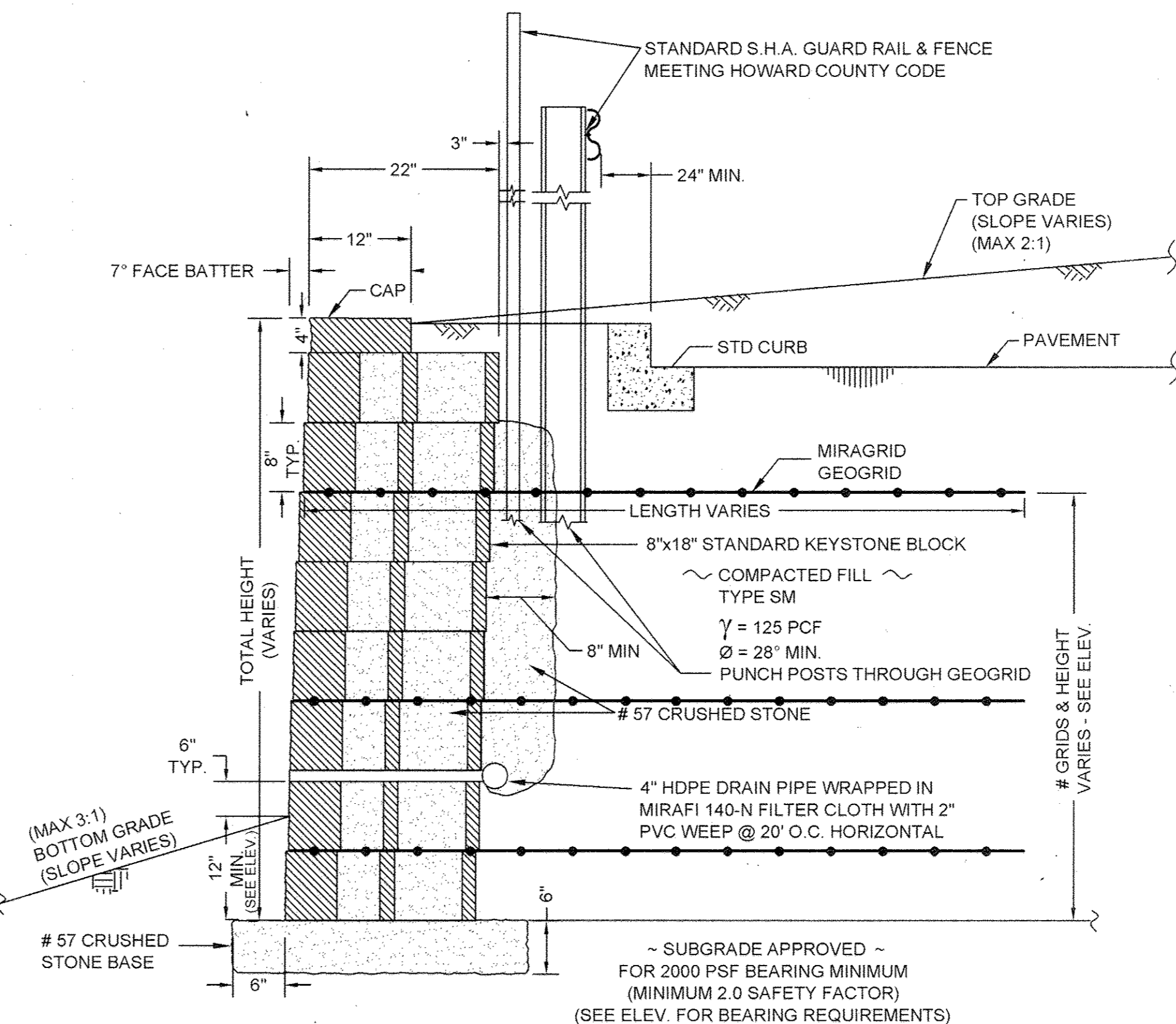
- 3.04 Structural Geogrid Installation**
 A. Geogrid shall be oriented with the highest strength axis perpendicular to the wall alignment.
 B. Geogrid reinforcement shall be placed at the strengths, lengths, and elevations shown on the construction design drawings or as directed by the Engineer.
 C. The geogrid shall be laid horizontally on compacted backfill and attached to the modular wall units. Place the next course of modular concrete units over the geogrid. The geogrid shall be pulled taut, and anchored prior to

- backfill placement on the geogrid.
 D. Geogrid reinforcements shall be continuous throughout their embedment lengths and placed side-by-side to provide 100% coverage at each level. Spliced connections between shorter pieces of geogrid or gaps between adjacent pieces of geogrid are not permitted.

- 3.05 Reinforced Backfill Placement**
 A. Reinforced backfill shall be placed, spread, and compacted in such a manner that minimizes the development of slack in the geogrid and installation damage.
 B. Reinforced backfill shall be placed and compacted in lifts not to exceed 6 inches where hand compaction is used, or 8-10 inches where heavy compaction equipment is used. Lift thickness shall be decreased to achieve the required density as required.
 C. Reinforced backfill shall be compacted to 95% of the maximum density as determined by ASTM D698. The moisture content of the backfill material prior to and during compaction shall be uniformly distributed throughout each layer and shall be +3% to -3% of optimum.
 D. Only lightweight hand-operated equipment shall be allowed within 3 feet from the tail of the modular concrete unit.
 E. Tracked construction equipment shall not be operated directly upon the geogrid reinforcement. A minimum fill thickness of 6 inches is required prior to operation of tracked vehicles over the geogrid. Tracked vehicle turning should be kept to a minimum to prevent tracks from displacing the fill and damaging the geogrid.
 F. Rubber tired equipment may pass over geogrid reinforcement at slow speeds, less than 10 MPH. Sudden braking and sharp turning shall be avoided.
 G. At the end of each day's operation, the Contractor shall slope the last lift of reinforced backfill away from the wall units to direct runoff away from wall face. The Contractor shall not allow surface runoff from adjacent areas to enter the wall construction site.

- 3.06 Cap Installation**
 A. Cap units shall be glued to underlying units with an all-weather adhesive recommended by the manufacturer.

- 3.07 Field Quality Control**
 A. The Owner shall engage inspection and testing services, including independent laboratories, to provide quality assurance and testing services during construction.
 B. As a minimum, quality assurance testing shall include foundation soil inspection, soil and backfill testing, verification of design parameters, and observation of construction for general compliance with design drawings and specifications.



WALL SECTION NTS

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John S. Wynn 8/20/13
 DIRECTOR DATE
Chris Hamstra 8/21/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT HB DATE

9/27/17 8/21/03
 DATE NO. REVISION

OWNER / DEVELOPER
 ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
 COOKSVILLE, MD 21723
 14196 FREDERICK ROAD
 301-725-0220

PROJECT
 ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY
 AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
 RETAINING WALL DETAILS

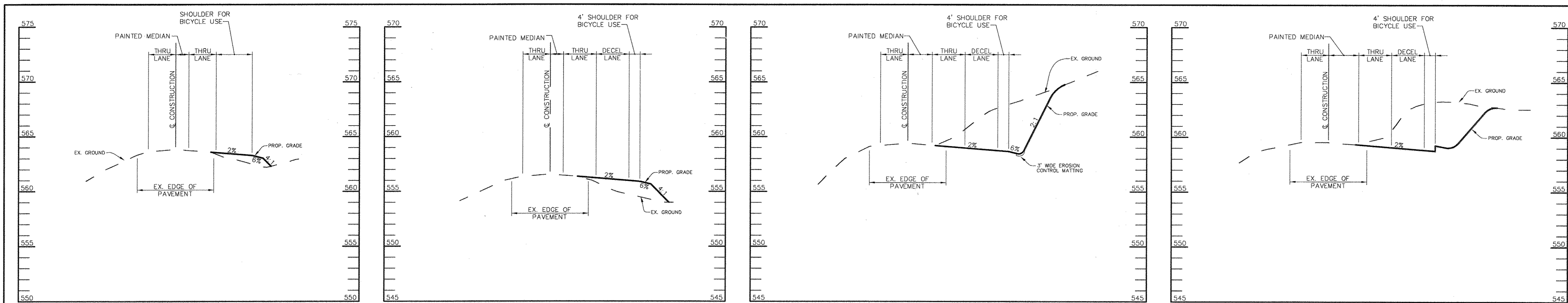
HILLIS-CARNES
 ENGINEERING ASSOCIATES, INC.

12011 Guilford Road, Suite 106 Annapolis Junction, Maryland 20701
 Phone: (410) 990-4700 Fax: (410) 990-4239

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects
 8812 Centre Park Drive
 Columbia, MD 21045

PHRA
 7/21/03 DATE
 T 410.997.8900
 F 410.997.9382

DESIGNED BY :	RWS
DRAWN BY:	AM
PROJECT NO :	02660-B
DATE :	JULY 28, 2003
SCALE :	AS SHOWN
DRAWING NO. 48 OF 51	

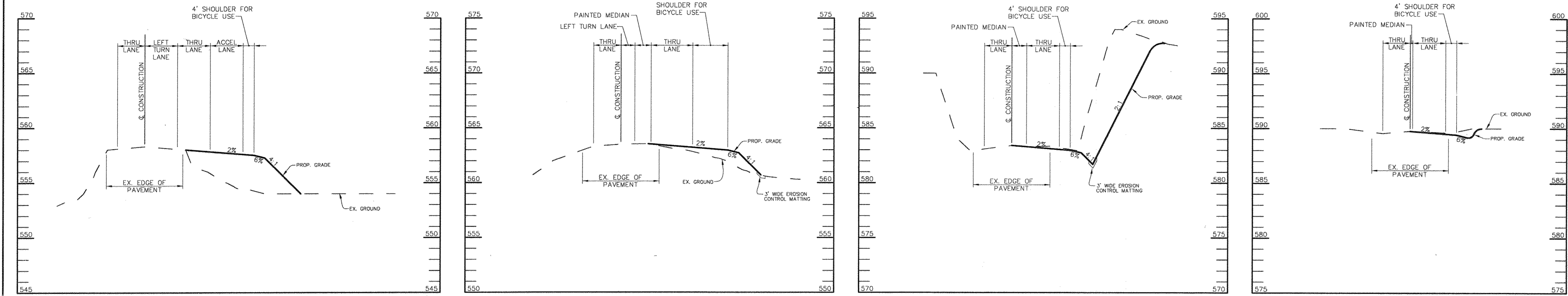


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STA 17+00
SCALE:
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STA 20+00
SCALE:
HOR.-1"=20'
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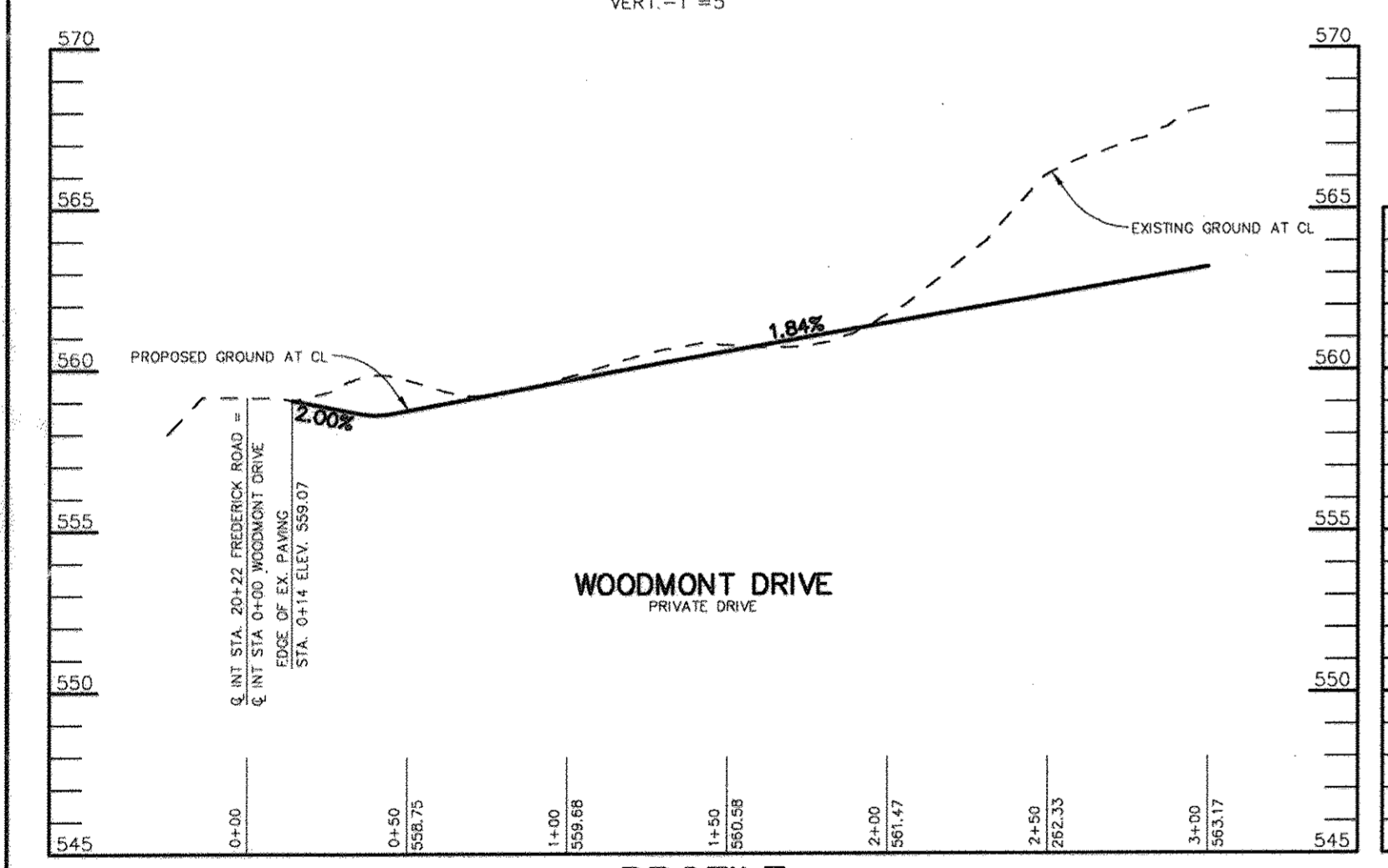


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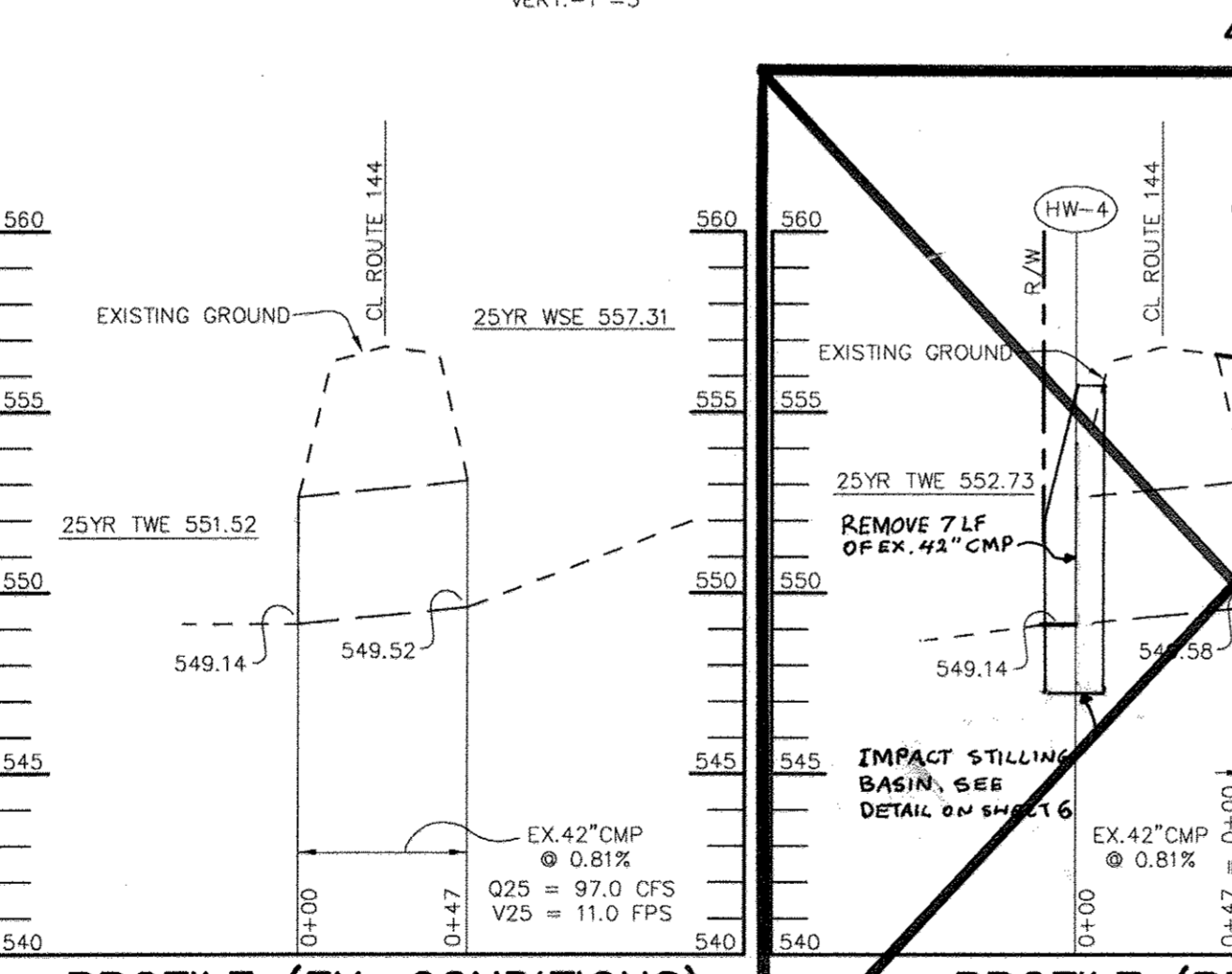
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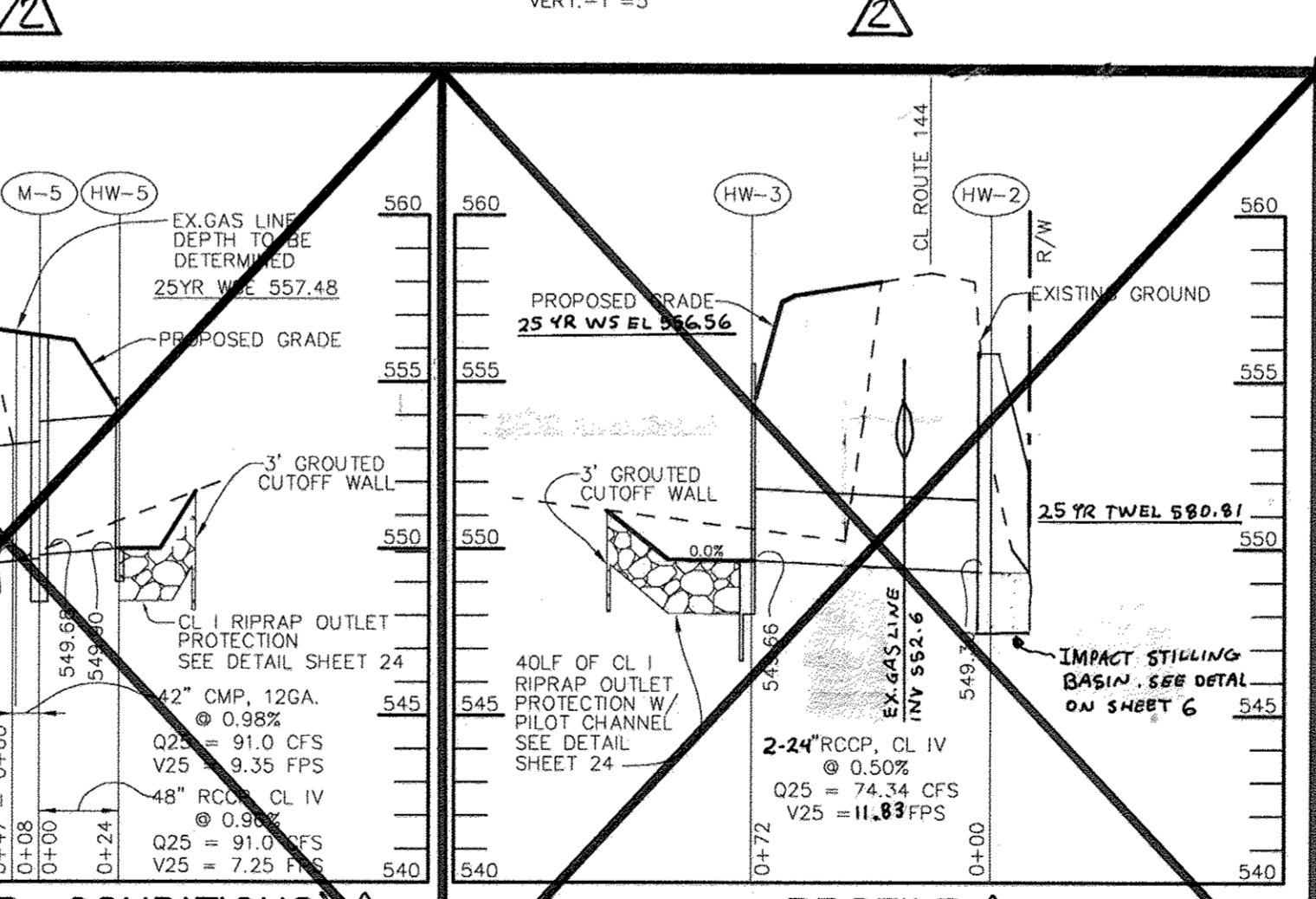
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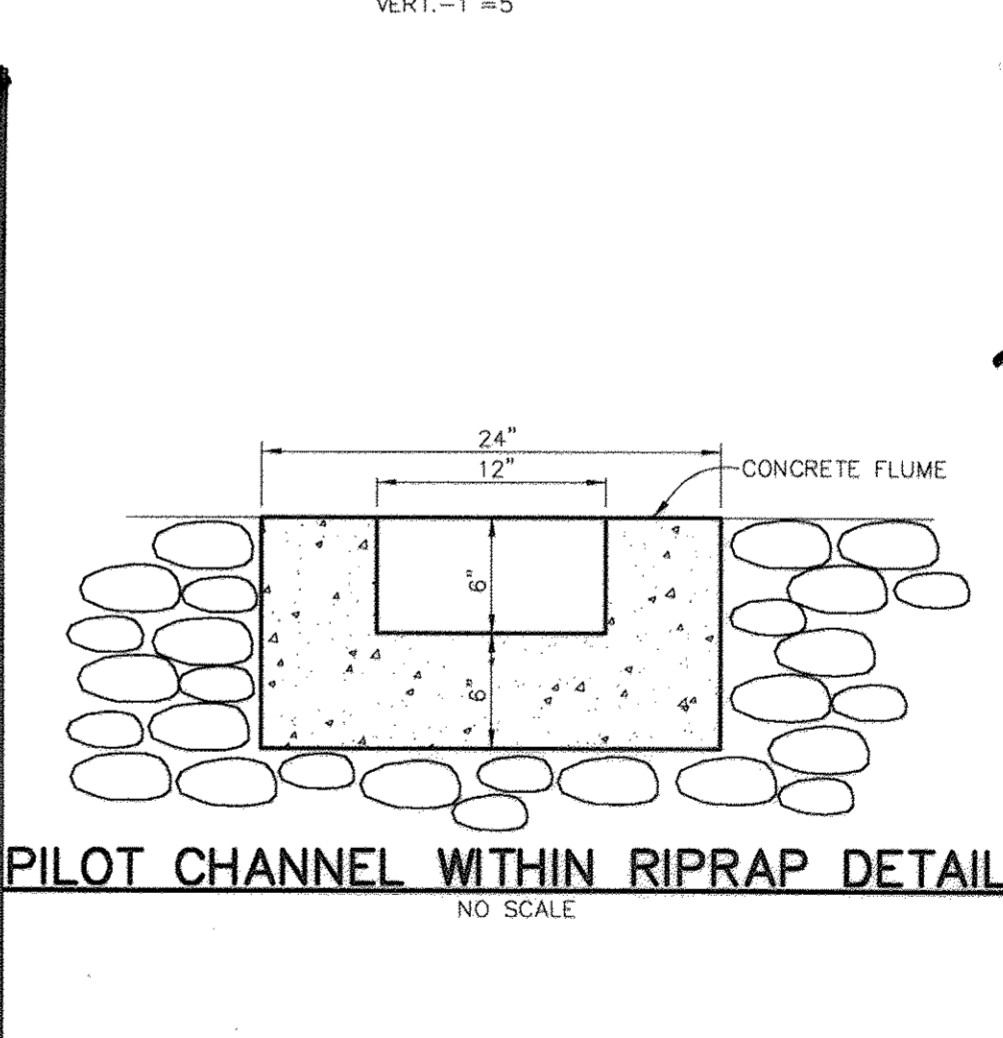
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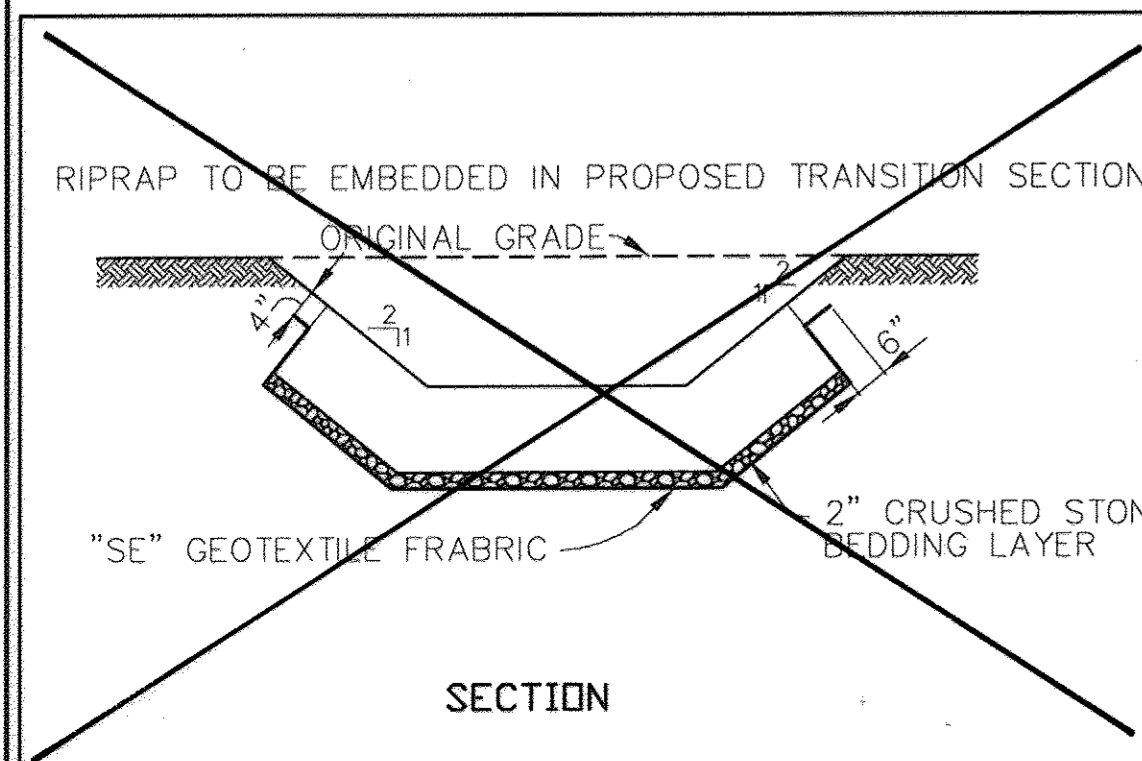
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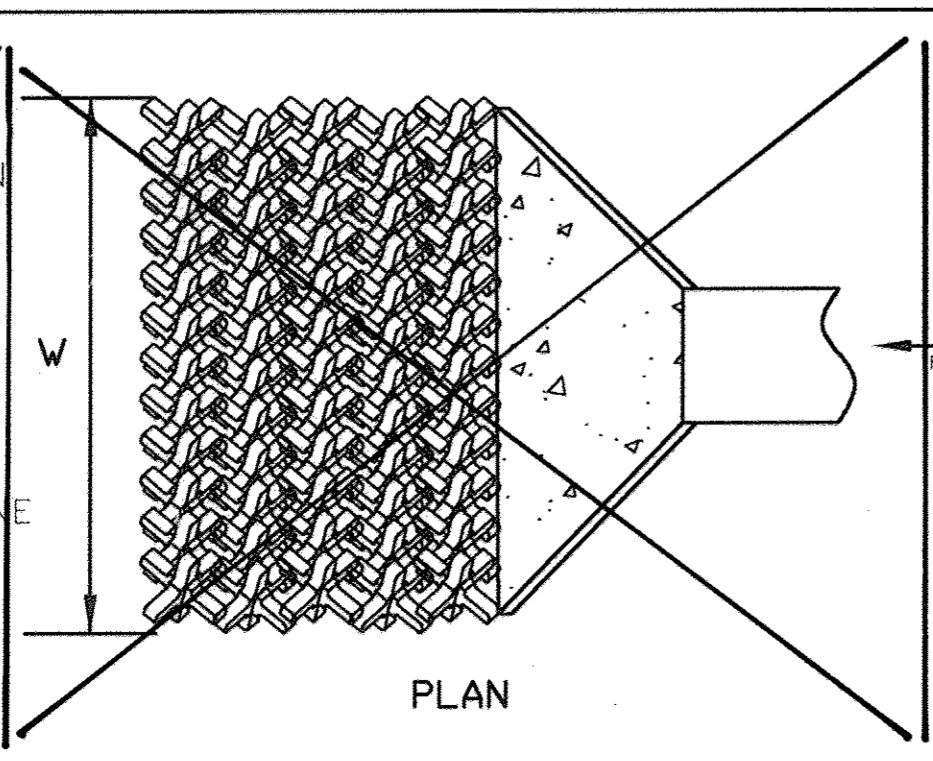
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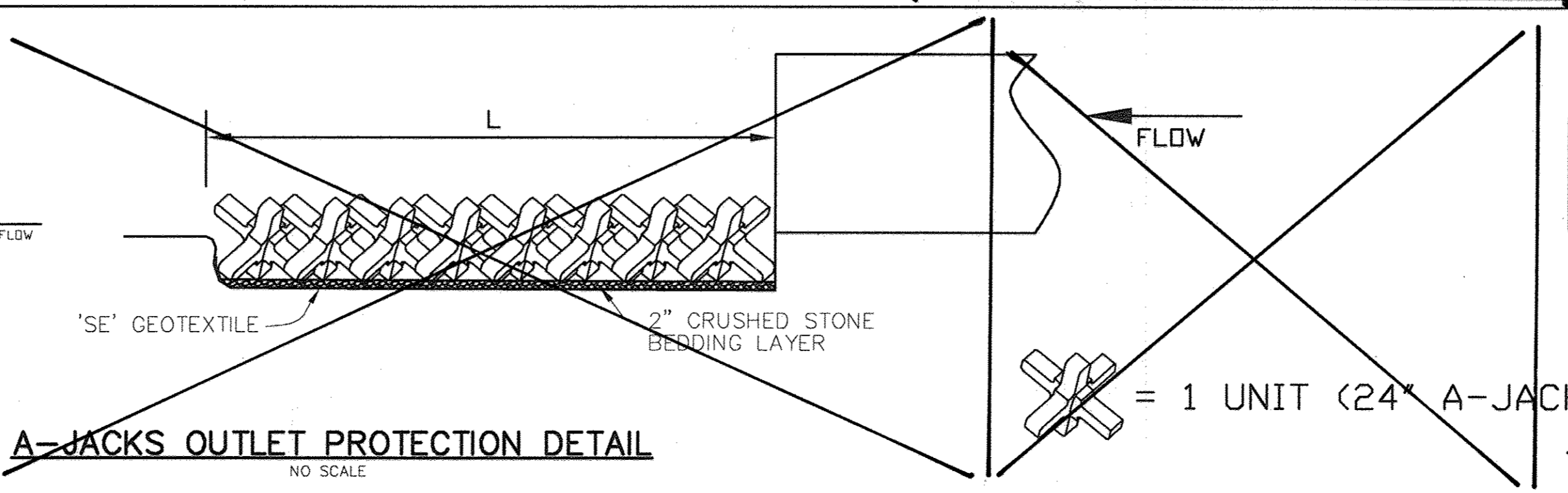
PILOT CHANNEL WITHIN RIPRAP DETAIL
NO SCALE



SECTION



PLAN



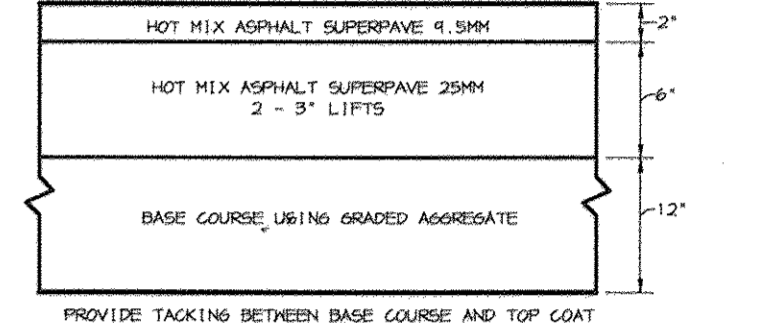
A-JACKS OUTLET PROTECTION DETAIL
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HW-4	60	5	6'	12'

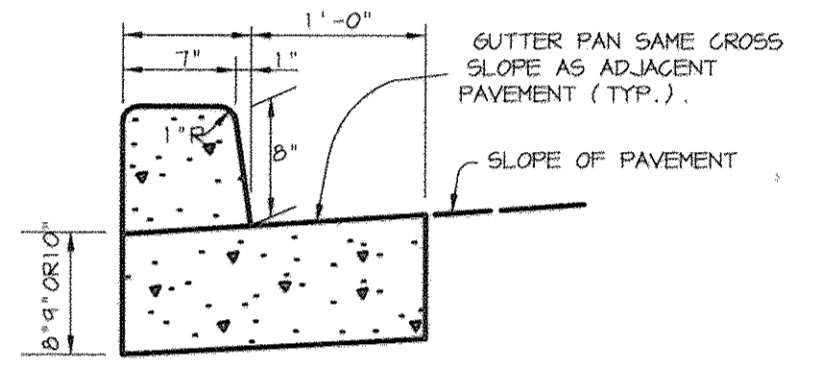
DESCRIPTION	QTY	UNIT	SCALE	DATE
A-JACKS WITH 6" RIPRAP PIPE	188	EA	AS SHOWN	7/28/03
PILOT CHANNEL	1	LINEAR FT	AS SHOWN	7/28/03

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577 Expiration Date: 6.8.10

FOR BEI REV. ONLY



M.S.H.A. PAVING SECTION
NO SCALE



M.S.H.A. TYPE 'A' CURB AND GUTTER
NO SCALE

APPROVED: CHANGE OWNER NAME - USE SYSTEMS

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
COUNTY HEALTH OFFICER
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

DIRECTOR
DATE: 8/24/03

CHIEF, DEVELOPMENT ENGINEERING DIVISION MAT
DATE: 8/27/03

CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 7/5/05

OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
141% FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY

AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
MSHA PROFILES AND DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE: 7-28-03

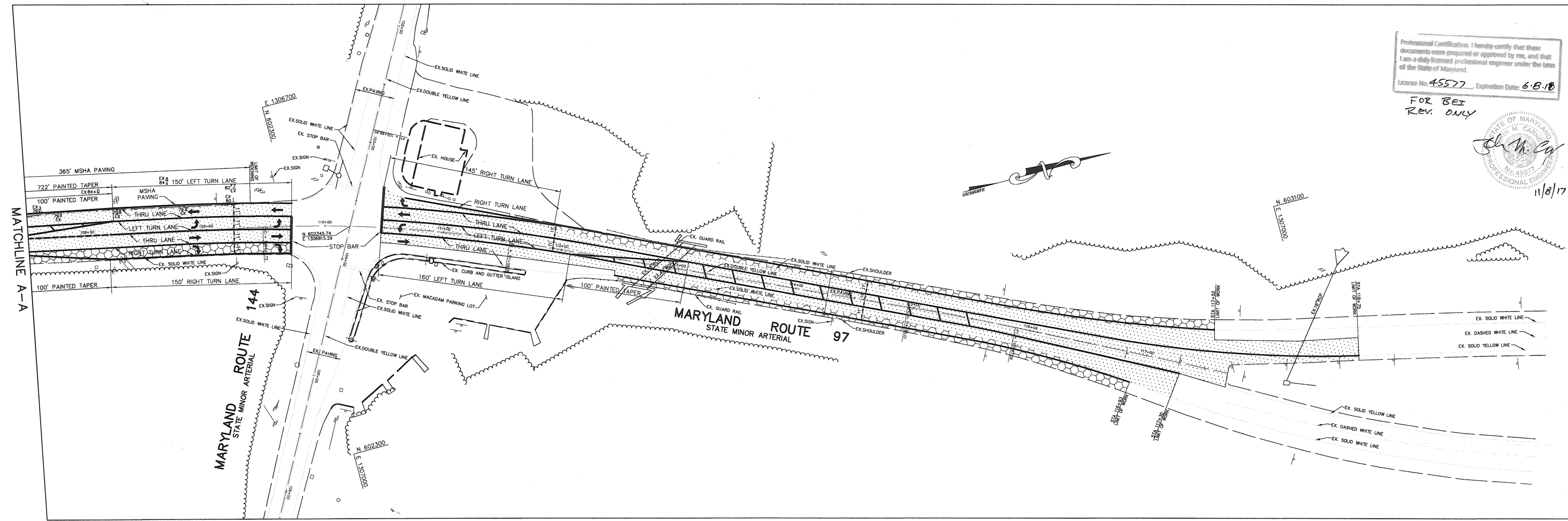
DESIGNED BY: C.J.R.
DRAWN BY: DAM
PROJECT NO: 22516/2-0/ENGR 'PROFILES'
DATE: JULY 28, 2003
SCALE: AS SHOWN
DRAWING NO. 49 OF 51

CHRISTOPHER J. REID #19949

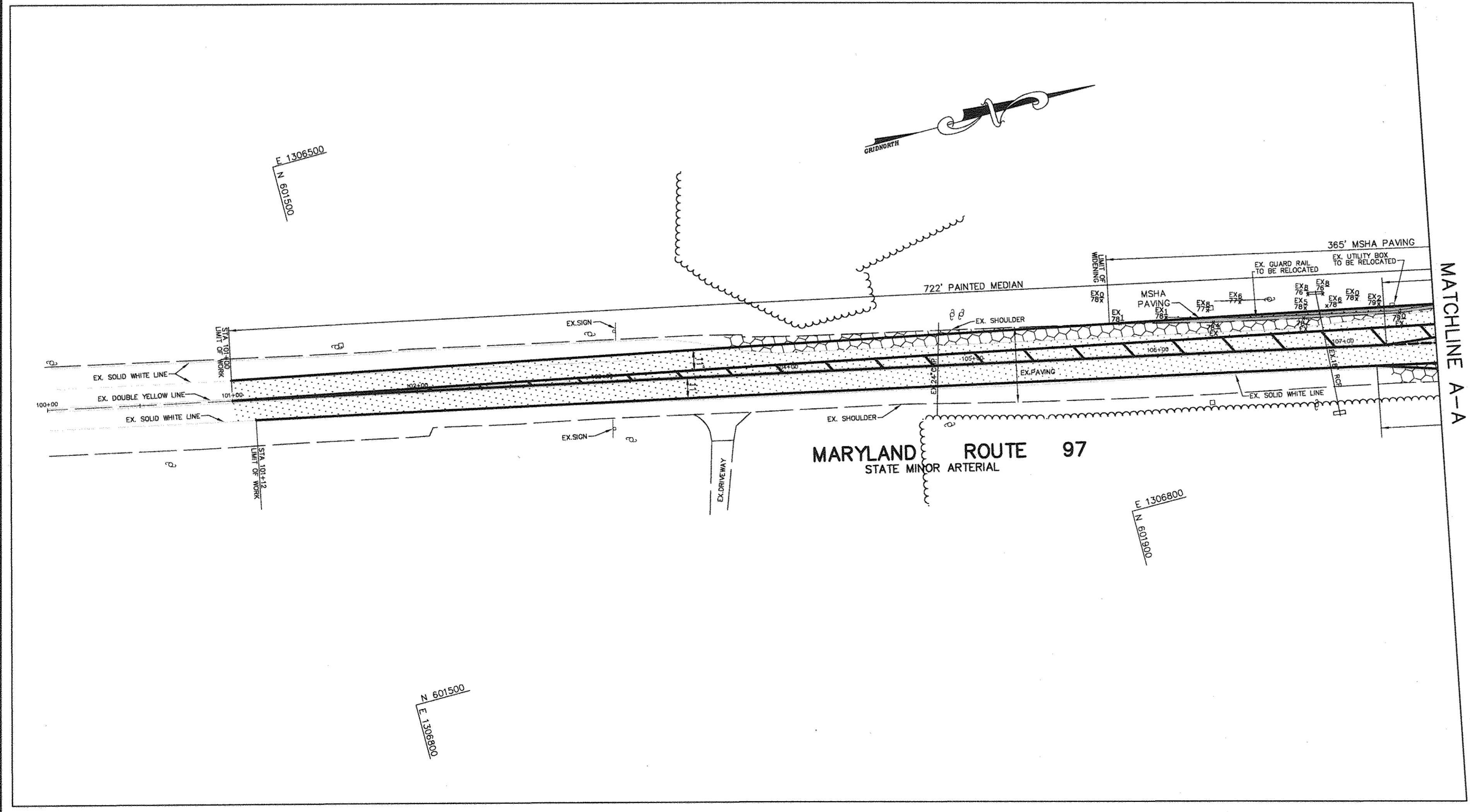
SDP-03-90

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45577, Expiration Date: 6-8-18

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REV. ONLY



NOTE: FOR DETAILS AND CROSS-SECTIONS, SEE SHEET 49.

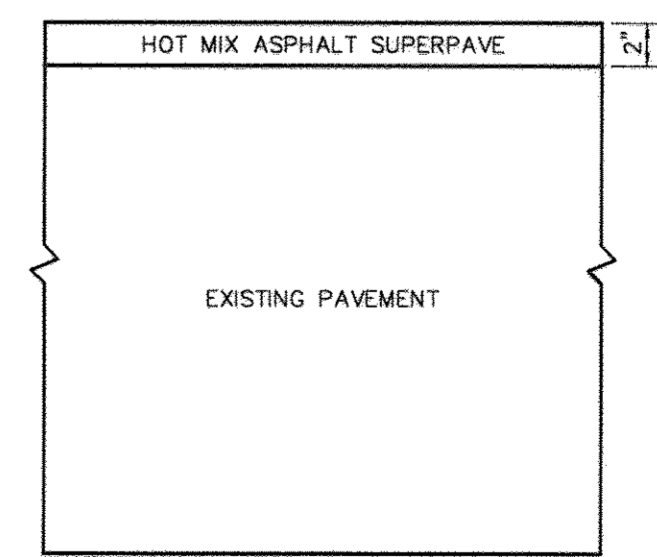


LEGEND

- NEW MSHA BASE WIDENING
- EXISTING SHOULD PAVING TO BE REMOVED AND RECONSTRUCTED
- PAVING OVERLAY

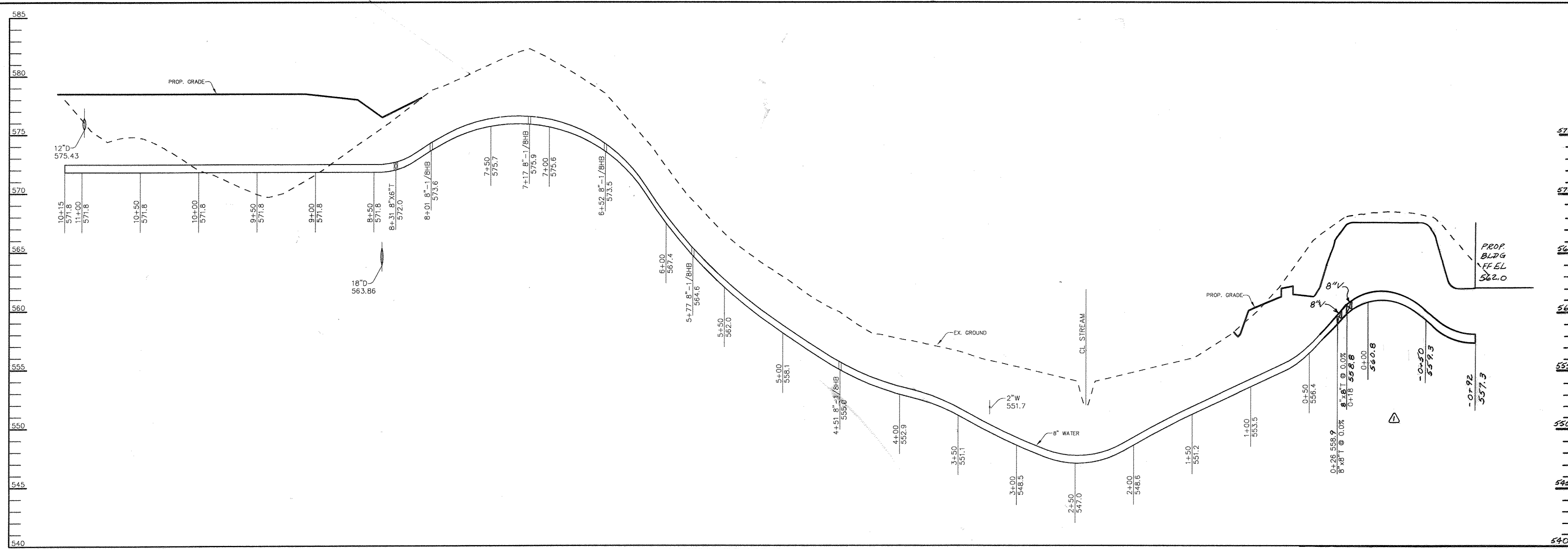
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MD 97 BASE WIDENING AND RECONSTRUCTION
NO SCALE



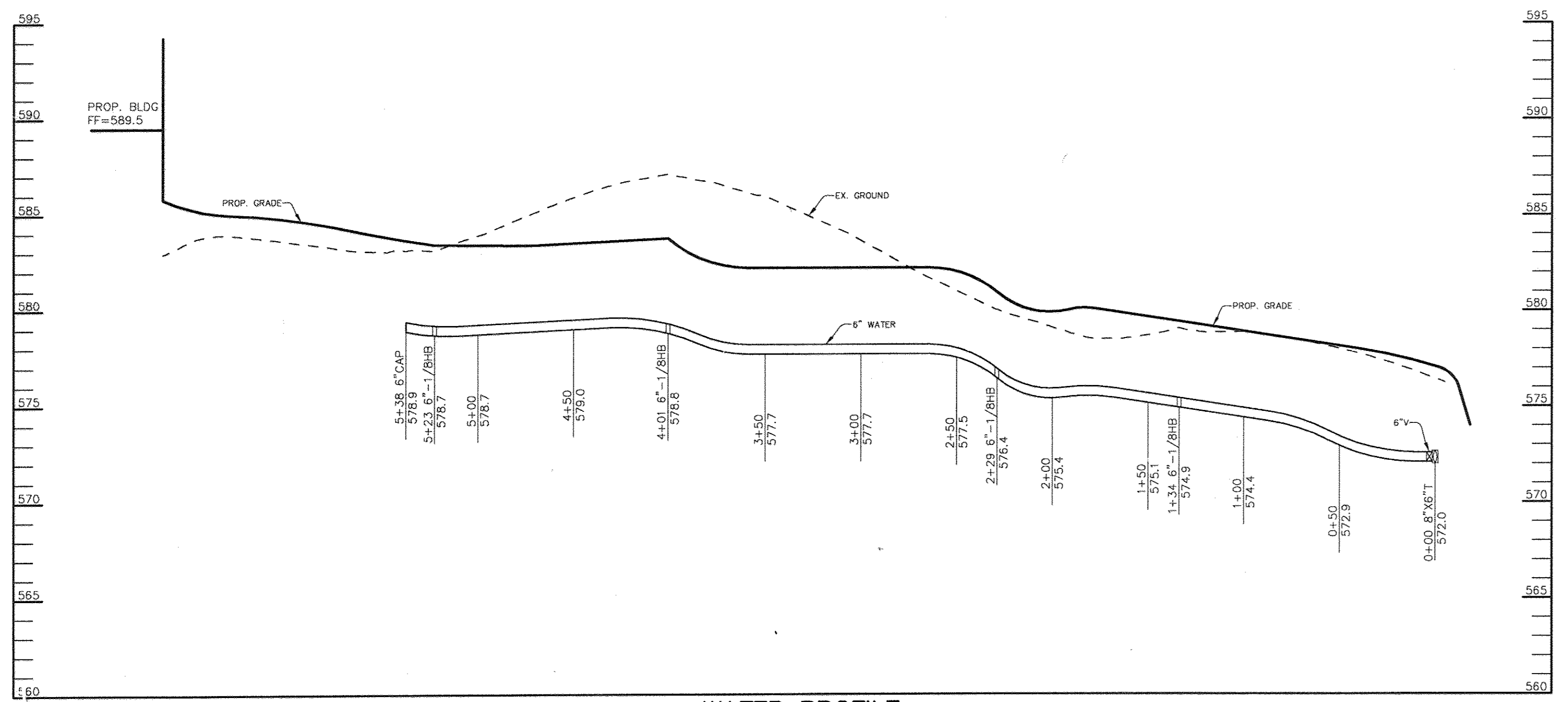
MD 97 OVERLAY
NO SCALE

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS															
<i>[Signature]</i>	DATE: 8/22/03														
COUNTY HEALTH OFFICER HOWARD COUNTY HEALTH DEPARTMENT															
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.															
<i>[Signature]</i>	DATE: 8/24/03														
DIRECTOR															
<i>[Signature]</i>	DATE: 8/24/03														
CHIEF, DEVELOPMENT ENGINEERING DIVISION															
<i>[Signature]</i>	DATE: 8/23/03														
CHIEF, DIVISION OF LAND DEVELOPMENT															
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9/21/17	REV 1	CHANGE OWNER NAME + USE													
DATE	NO.	REVISION													
OWNER / DEVELOPER ST. MARY COPTIC ORTHODOX CHURCH OF MARYLAND, INC. 14196 FREDERICK ROAD 301-725-0220															
PROJECT ST. MARY COPTIC ORTHODOX CHURCH PHASE 1 - RELIGIOUS FACILITY															
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND															
TITLE ROAD WIDENING AND STRIPING PLAN FOR RT 97 - RT 144 INTERSECTION Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282															
<table border="1"> <tr><td>7.28.03</td><td>DATE</td></tr> <tr><td>DESIGNED BY: C.J.R.</td><td></td></tr> <tr><td>DRAWN BY: DAM</td><td></td></tr> <tr><td>PROJECT NO: 22516/2-0/ENGR WRT144RT97</td><td></td></tr> <tr><td>DATE: JULY 28, 2003</td><td></td></tr> <tr><td>SCALE: 1" = 40'</td><td></td></tr> <tr><td>DRAWING NO. 50 OF 51</td><td></td></tr> </table>		7.28.03	DATE	DESIGNED BY: C.J.R.		DRAWN BY: DAM		PROJECT NO: 22516/2-0/ENGR WRT144RT97		DATE: JULY 28, 2003		SCALE: 1" = 40'		DRAWING NO. 50 OF 51	
7.28.03	DATE														
DESIGNED BY: C.J.R.															
DRAWN BY: DAM															
PROJECT NO: 22516/2-0/ENGR WRT144RT97															
DATE: JULY 28, 2003															
SCALE: 1" = 40'															
DRAWING NO. 50 OF 51															



WATER PROFILE

SCALE
HOR. - 1" = 50'
VERT. - 1" = 5'



WATER PROFILE

SCALE
HOR. - 1" = 50'
VERT. - 1" = 5'

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 45577 Expiration Date: 6-8-18

FOR BEST
REY.
ONLY



APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
David B. ... 8-22-03
COUNTY HEALTH OFFICER DATE
HOWARD COUNTY HEALTH DEPARTMENT

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
David D. ... 8/21/03
DIRECTOR DATE

... 8/21/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION MAJ DATE
... 7/23/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

0-27-17 *REV* CHANGE OWNER, NAME + USE
5-3-04 *REV* REVISED WATER MAIN TO PUMP HOUSE
DATE NO. REVISION

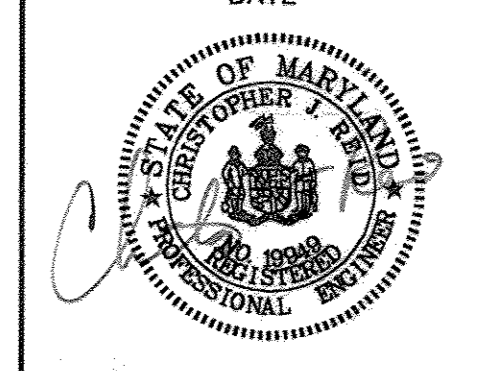
OWNER / DEVELOPER
ST. MARY COPTIC ORTHODOX
CHURCH OF MARYLAND, INC.
COOKSVILLE, MD 21723
14196 FREDERICK ROAD
301-725-0220

PROJECT
ST. MARY COPTIC ORTHODOX CHURCH
PHASE 1 - RELIGIOUS FACILITY
AREA TAX MAP 8 & 14 PARCEL 115 ZONED RC-DEO
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
PROFILES

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

7-28-03
DATE
DESIGNED BY : C.J.R.
DRAWN BY: DAM
PROJECT NO : 22516/2-0/ENGR
PROFILE 4
DATE : JULY 28, 2003
SCALE : AS SHOWN
DRAWING NO. 51 OF 51



CHRISTOPHER J. REID #19949