

General Notes:

- Total area of property: 12.87 Ac.
 - A. Total area of limit of submission (Phase Two): 1.28 Ac.
- Present zoning of property: R-20 (Residential: Single) subject to Board of Appeals Case Nos. BA 90-55E and BA 87-48E.
- Deed reference: Liber 1822, Folio 570.
- Public water and public sewerage is available for the property. (Contract No. 10W and Contract No. 31-S Patapsco Drainage Area.
- Property is located on Tax Map 24 Block 11 part of Parcel 535.
- This site development plan is subject to previous submission SDP 73-35, SDP 92-11 and Board of Appeals Case Nos. BA 90-55E and BA 87-48E. Also see Howard County Historic Sites Inventory (HO-26).
- Site Analysis:
 - A. Intended use of structures: Religious Activities (Phase Two: Parish Life Center).
 - B. Total area of building (Phase Two): 1982 sq. ft. or 0.05 Ac. (4% coverage of limit of submission).
 - C. Total area of building coverage (total site): 27,332 sq. ft. or 0.63 Ac. (4.9%)
 - 1. Proposed Parish Life Center
 - a) First floor: 1982 sq. ft.
 - b) Ground floor: 1982 sq. ft.
 - D. Total number of parking spaces required (Phase Two): 40
 - 1. One space for each 100 square feet of floor area of assembly space open to the public:
 - a) Total floor area open to the public: 3964 sq. ft.
 - b) 3964 sq. ft. : 100 = 39.6 or 40.

PHASE ONE:
BUILDING ADDITION TO ST. JOHN'S CHURCH
NOT PART OF THIS SUBMISSION | SEE SDP 92-11

Ex. SWM Facility #1

Existing Conditions: Hydrology from approved SDP 87-120, Frederick Crossing
Proposed Conditions:
DA = 1.22 Ac. RCN = 79 Tc = 10hr
Path: A-B 100' @ 2%
B-C 65' @ 5%
C-D 55' @ 13%

SWM Facility #2

Existing Conditions:
DA = 0.33 Ac. RCN = 61 Tc = 24hr
Path: A-B 100' @ 2%
B-C 85' @ 11%
Proposed Conditions:
DA = 0.50 Ac. RCN = 84 Tc = 10hr
Path: A-B 60' @ 8%
B-C 100' @ 5%

PHASE TWO:
PARISH LIFE CENTER

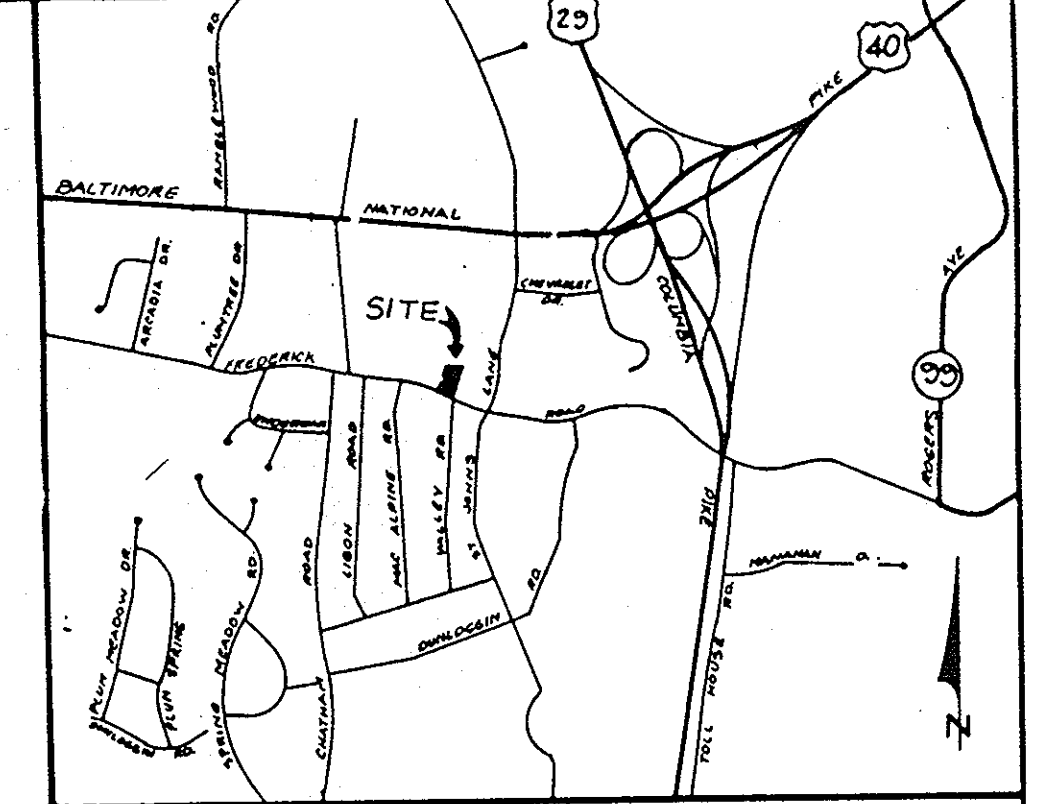
LEGEND

- Ex. D.A.
- Prop. D.A.
- Ex. Tc Path
- Prop. Tc Path
- Limit of Submission

LEGEND

- Soil Type Boundary
- Time of Concentration
- Flow Path
- Limit of Submission
- Proposed Paving
- Existing Woods To Remain Undisturbed

SOIL GROUP	SOIL TYPE	SOIL NAME
C	GAB2	Glenville silt loam
B	MIB2	Manor loam
B	MIC2	Manor loam
B	MID2	Manor loam
B	Mnd	Manor very stony loam
C	MoB2	Montalto silt loam
B	NeB2	Nashaminy silt loam



VICINITY MAP
SCALE: 1" = 2000'

INDEX OF SHEETS	
SHEET	TITLE
1	LOCATION AND SWM DRAINAGE AREA MAP
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
4	LANDSCAPE PLAN
5	SEDIMENT CONTROL AND SITE DETAILS
6	SWM PROFILES AND DETAILS

IN THE MATTER OF ST. JOHN'S EPISCOPAL CHURCH Petitioner
BEFORE THE HOWARD COUNTY BOARD OF APPEALS Case No. BA 90-55E
ORDER

Based upon the foregoing Findings of Fact and Conclusions of Law, it is this 12th day of March, 1991, by the Howard County Board of Appeals, ORDERED:

That the petition of St. John's Episcopal Church for a special exception to expand an existing religious facility be, and the same is hereby GRANTED, subject to the following conditions:

- The Petitioner shall comply with all applicable Federal, State, and County laws and regulations.
- The location and layout of all proposed parking areas shall be designed to meet the minimum standards for parking and access lanes.
- The Petitioner shall insure that no headlights from automobiles in driveways or parking areas shall shine or reflect onto adjacent residential properties as well as residential properties across Frederick Road, by planting where necessary, sufficient evergreen vegetative screening.
- Outdoor lighting shall be directed inward so as not to shine or reflect onto adjacent properties, and shall be the minimum necessary for directional and security lighting, and may not exceed three (3) feet in height.
- The Petitioner shall comply with testimony presented and construct the proposed addition to the church building and the proposed parish life center with slate roofs.

ADDRESS CHART

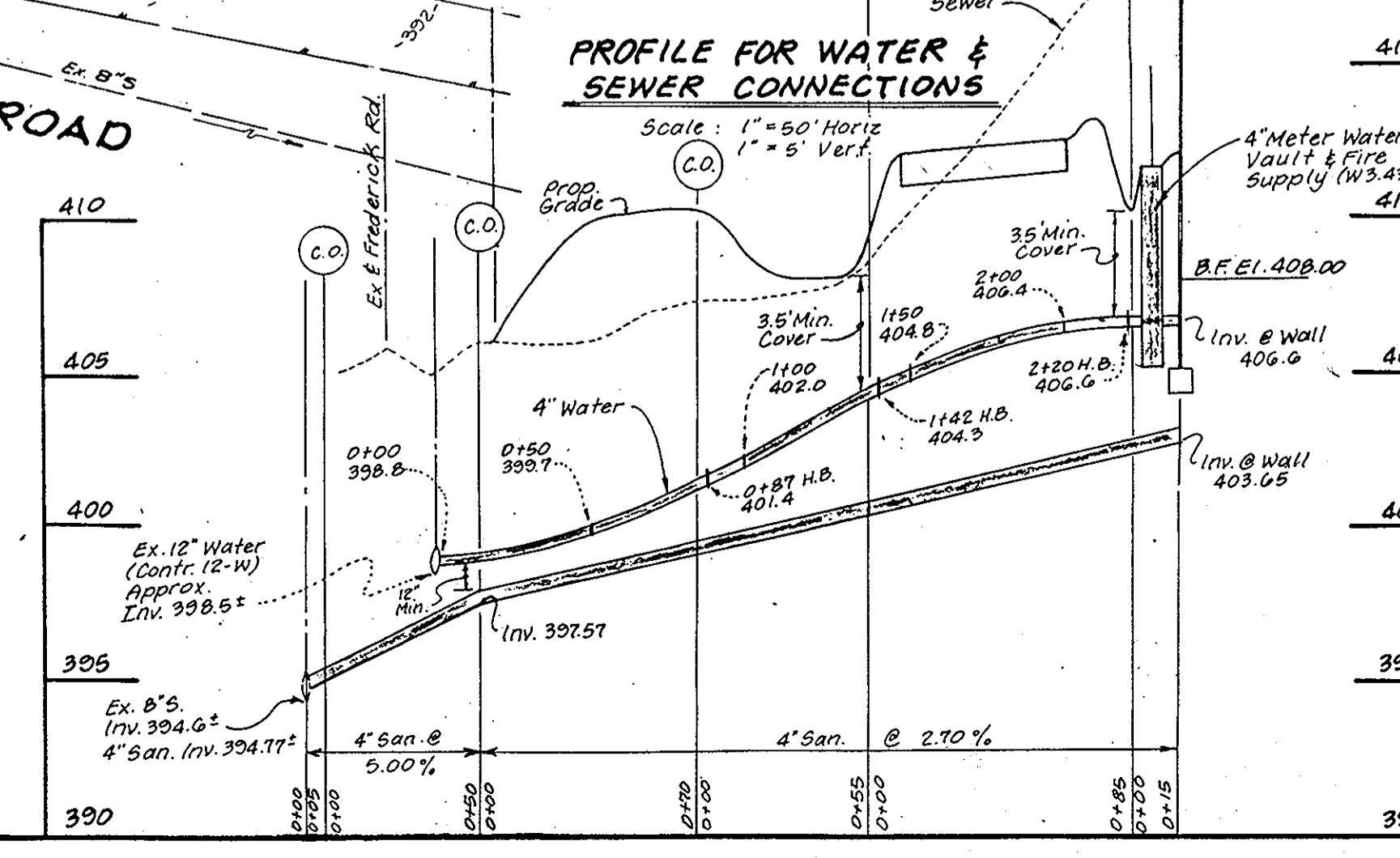
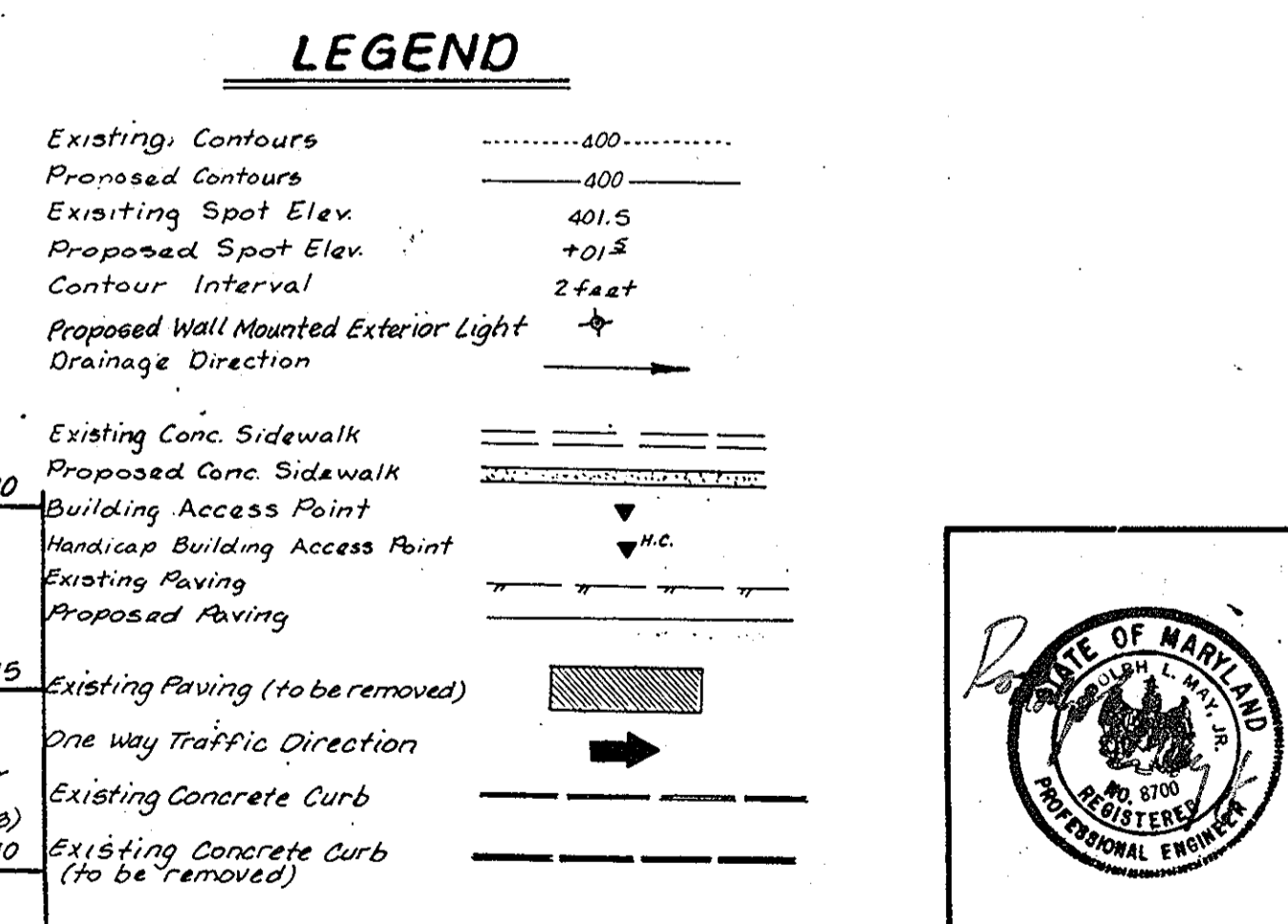
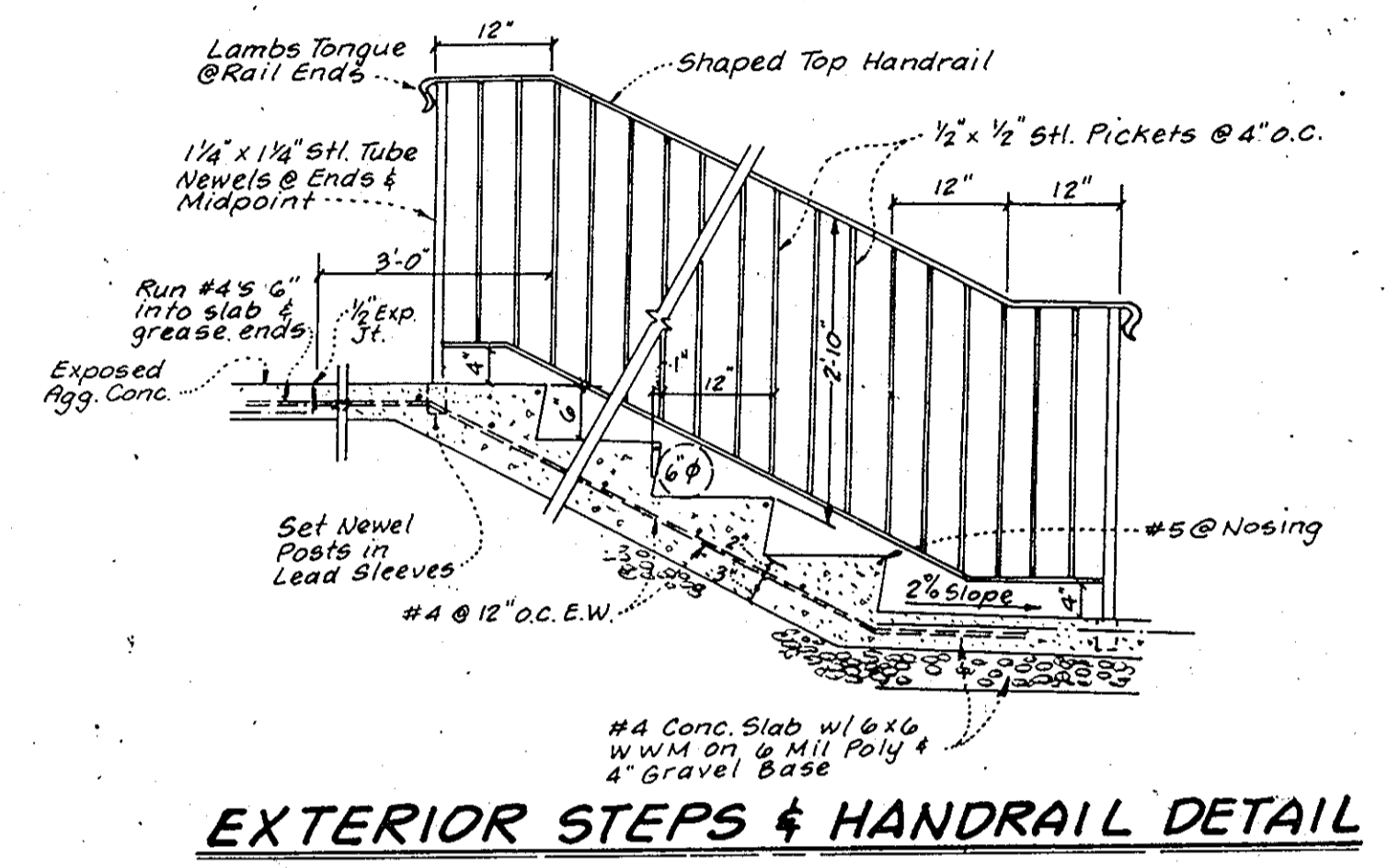
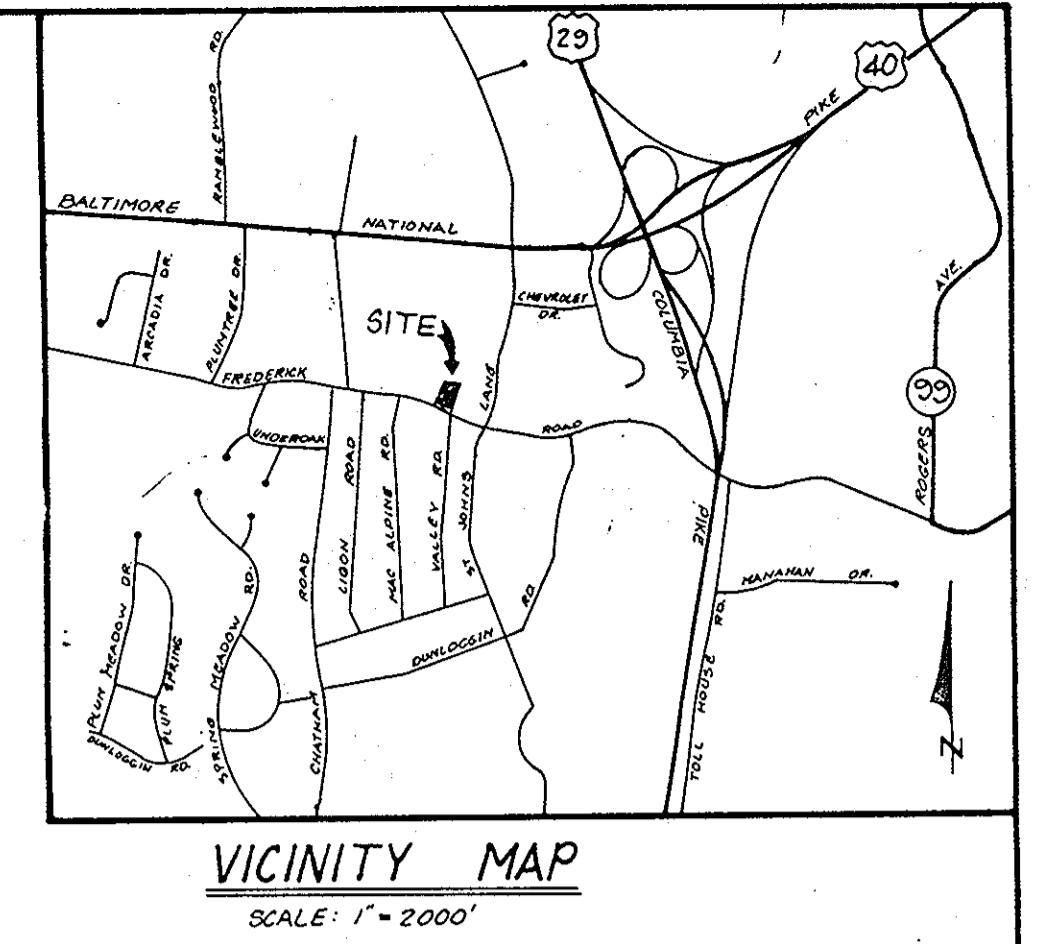
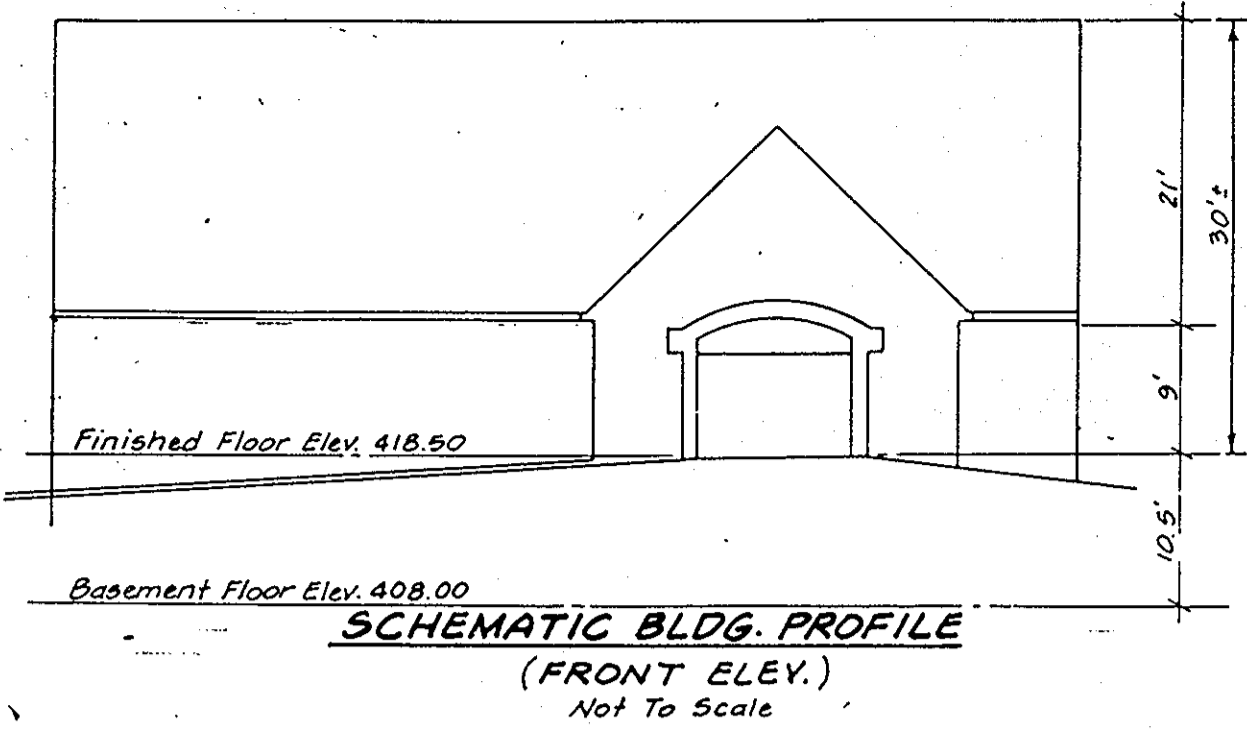
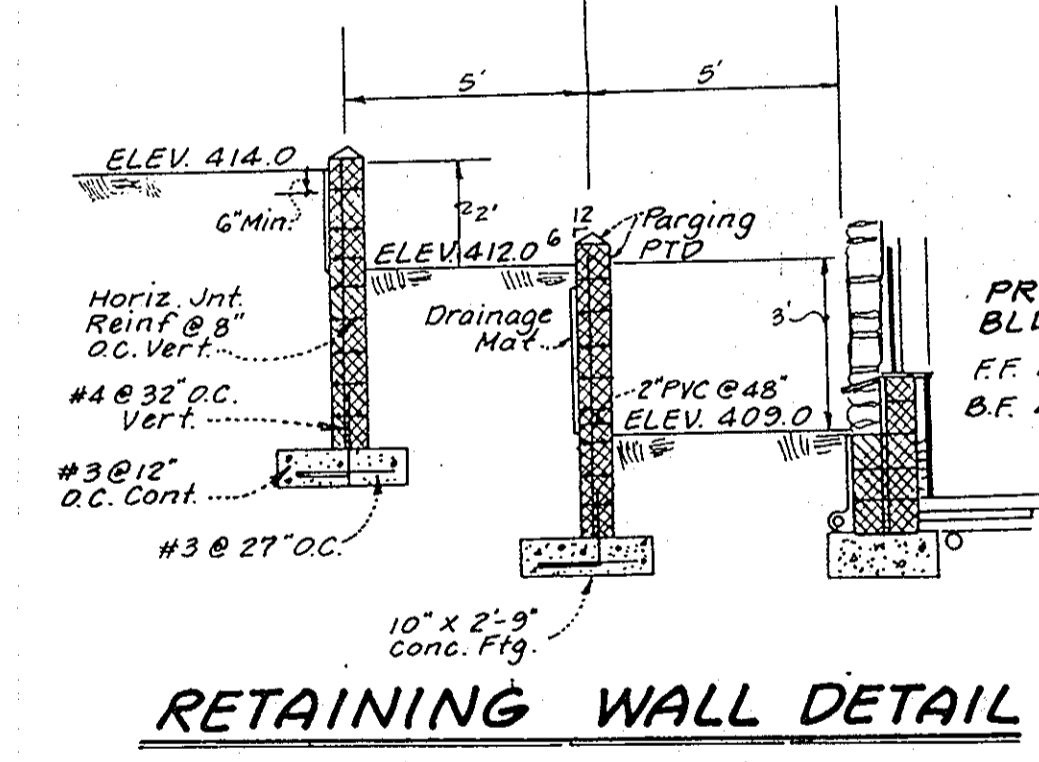
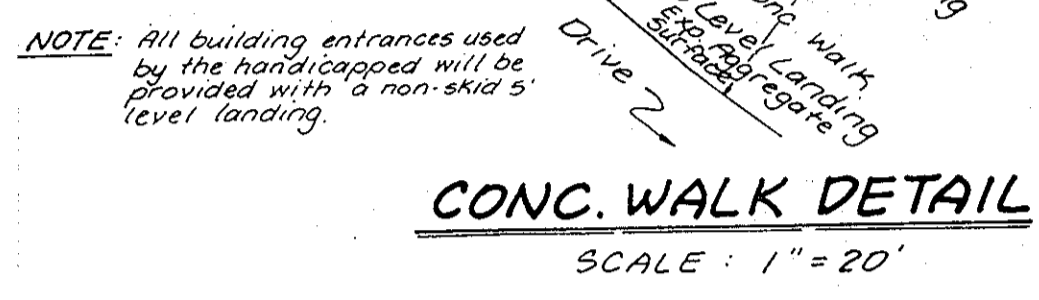
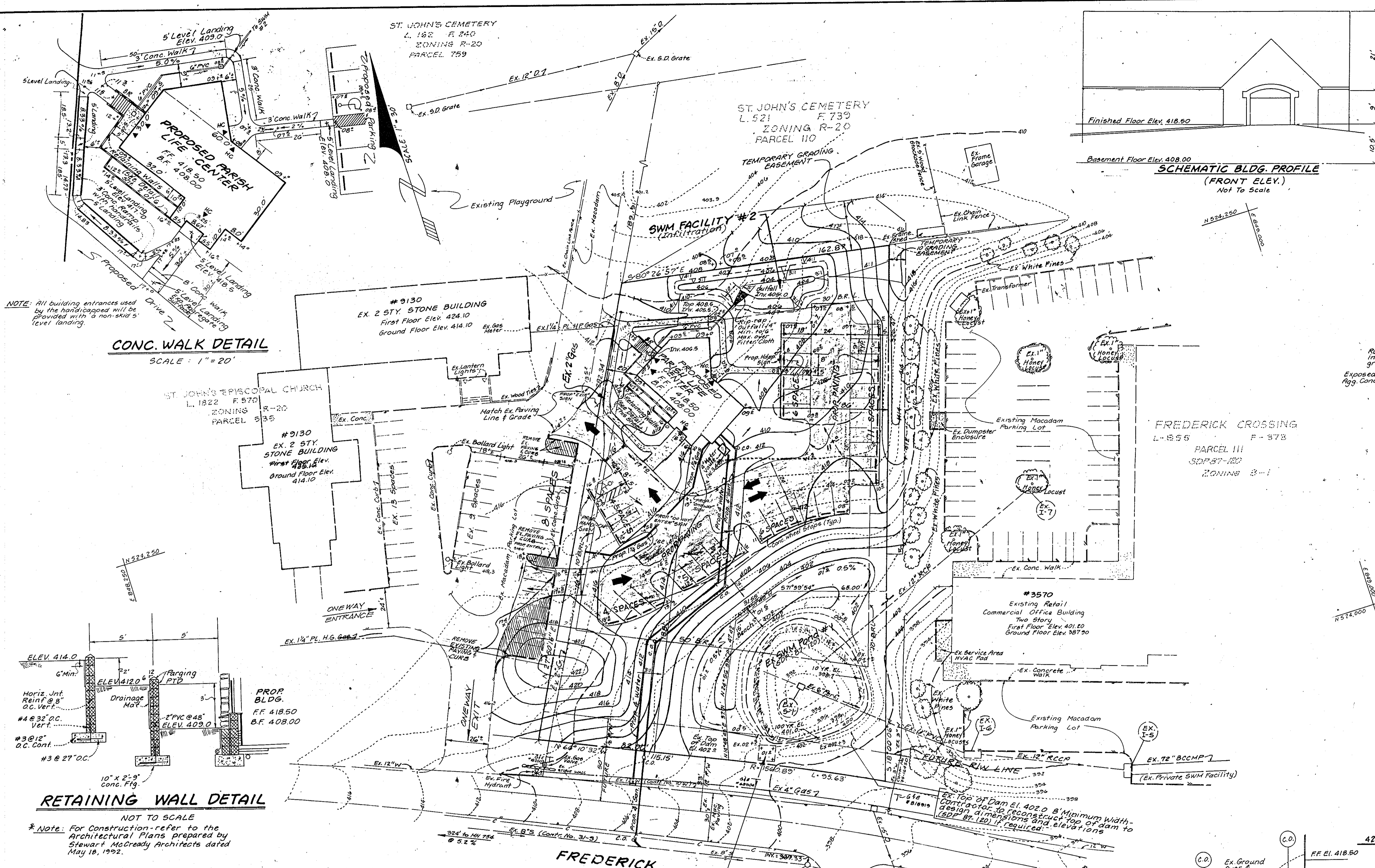
PARCEL NO.	STREET ADDRESS
P10 535	FREDERICK ROAD
PROPERTY NAME:	SECTION/AREA PARCEL
ST. JOHN'S EPISCOPAL CHURCH	P10 535
DEED REF. BLOCK NO. ZONE	TAX MAP NO. ELEC. DIST. CENSUS TR.
1822/570 11 R-20	24 2nd 6023.01
WATER CODE: F07	SEWER CODE: 1A02800



LAND DESIGN ENGINEERING, INC.

DESIGNED	LOCATION/SWM DRAINAGE AREA MAP	SCALE
	PARISH LIFE CENTER	1" = 50'
DRAWN	ST. JOHN'S EPISCOPAL CHURCH	DRAWING
	PHASE TWO	1 OF 6
CHECKED	TAX MAP 24 BLOCK 11 P10 PARCEL 535	JOB NO.
	LIBER 1822 FOLIO 570	90-202.8
DATE	HOWARD COUNTY, MARYLAND	FILE NO.
4/92	PREVIOUS FILE NO. SDP 73-35 BA 90-55E	
	OWNER/DEVELOPER	
	ST. JOHN'S EPISCOPAL CHURCH	
	2120 FREDERICK RD.	
	ELLCOTT CITY, MD 21043	
	PHONE: 465-9591	

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR STORM DRAINAGE SYSTEMS AND ROADS.
James M. Brown 8/24/92
DIRECTOR, PUBLIC WORKS
APPROVED: DEPARTMENT OF PLANNING AND ZONING
Joseph R. Smith 9/1/92
PLANNING DIRECTOR
Bluma H. Holmstedt 8/26/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
James M. Boyd 8/26/92
HEALTH OFFICER



APPROVED: DEPARTMENT OF PUBLIC WORKS, FOR STORM DRAINAGE SYSTEMS AND ROADS.
James P. [Signature] 8/24/92 DATE
 DIRECTOR, PUBLIC WORKS

APPROVED: DEPARTMENT OF ENGINEERING
[Signature] 8/24/92 DATE
 CHIEF, BUREAU OF ENGINEERING

APPROVED: DEPARTMENT OF PLANNING AND ZONING
[Signature] 9/11/92 DATE
 PLANNING DIRECTOR

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
[Signature] 8/24/92 DATE
 HEALTH OFFICER

LAND DESIGN ENGINEERING, INC.
 10620 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301) 804-6264 • (301) 800-0034

DESIGNED	SITE DEVELOPMENT PLAN PARISH LIFE CENTER ST. JOHN'S EPISCOPAL CHURCH PHASE TWO TAX MAP 24, BLOCK 11, PARCEL 535 LIBER 1822 FOLIO 570 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND BA 87-48E PREVIOUS FILE NO. SDP 73-35 BA 90-55E SDP 92-11	SCALE
DRAWN		1" = 30'
WAS		DRAWING
CHECKED		2 OF 6
RLM		JOB NO.
DATE	4/92	90-202.B
	OWNER/DEVELOPER	FILE NO.
	ST. JOHN'S EPISCOPAL CHURCH 9120 FREDERICK RD. ELLICOTT CITY, MD. 21043 Phone: 465-9531	

SEDIMENT TRAP #1

TYPE OF TRAP	STONE OUTLET
DRAINAGE AREA (AC.)	0.45
STORAGE REQUIRED (C.F.)	810
STORAGE PROVIDED (C.F.)	850 C.F.
STORAGE ELEVATION (FT.)	406.0
STORAGE DEPTH (FT.)	1
WEIR WIDTH (FT.)	4
BOTTOM ELEVATION (FT.)	405.0
CLEANOUT ELEVATION (FT.)	405.5
CREST ELEVATION (FT.)	407.0
TOP ELEVATION (FT.)	408.5

NOTE: Rip-Rap Outfall to be constructed at a later time. See note #10 - Construction Sequence.

ST. JOHN'S CEMETERY
L. 521 F. 739
ZONING R-20
PARCEL 110.

Construction Sequence

1. Obtain grading permit.
2. Construct stabilized construction entrance. Install tree protection fence and silt fence in location indicated on the plan. Install sediment traps.
3. Clear and grub site to subgrade. Remove ornamental landscaping, and existing paving, etc. as required. Stockpile stripped topsoil in area indicated on plan.
4. Excavate foundation for building. Begin construction of building and utilities.
5. Install base course of parking lot.
6. Remove sediment from roadways and dress stabilized construction entrance as required.
7. The contractor shall inspect and provide necessary maintenance on the sediment and erosion control measures shown hereon, after each rainfall and on a daily basis.
8. Complete building and utility construction. Remove stabilized construction entrance, clean base course, apply tack coat and lay surface course.
9. Fine grade site and stabilize all disturbed areas using permanent seeding mixture and straw mulch.
10. After all areas draining to the existing stormwater management pond have been stabilized, with approval of sediment control inspector, remove traps 2 and 3 and construct bench channel area. Stabilize disturbed areas using permanent seeding mixture and straw mulch. After areas draining to trap #1 have been stabilized, grade to SWH #2 pond bottom of 404.0, and provide rip-rap outfall to specifications shown on sheet 2 - Site Development Plan.
11. After permission has been given by the sediment control inspector, remove remaining sediment control measures and stabilize all areas using permanent seeding mixture and straw mulch.

ST. JOHN'S EPISCOPAL CHURCH
L. 166 F. 739
L. 179 F. 802
L. 301 F. 581
ZONING R-20
PARCEL 535

FREDERICK CROSSING
L-555 F-373
PARCEL 111
SDP 87-120
ZONING B-1

SEDIMENT TRAP #3

TYPE OF TRAP	Stone Outlet
DRAINAGE AREA (Ac.)	0.29
STORAGE REQUIRED (C.F.)	522
STORAGE PROVIDED (C.F.)	588
STORAGE ELEVATION (FT.)	400.0
STORAGE DEPTH (FT.)	1
WEIR WIDTH (FT.)	4
BOTTOM ELEVATION (FT.)	399.0
CLEANOUT ELEVATION (FT.)	399.5
CREST ELEVATION (FT.)	401.0
TOP ELEVATION (FT.)	402.0

* **NOTE:** SEE LANDSCAPE PLAN FOR SPECIAL SITE STABILIZATION AREAS AND TREE PROTECTION FENCE LOCATIONS. SEE SHEET 4 OF 6.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONTOUR INTERVAL
- SILT FENCE
- EARTH DIKE
- LIMIT OF DISTURBANCE
- TRAP DRAINAGE DIVIDE
- STORM DRAIN
- DRAINAGE DIVIDE
- SOIL BORING



NOTE: FOR SOIL BORING B-1 LOG SEE FREDERICK CROSSING, SDP 87-120. SEE GEOTECHNICAL REPORT IN SWM STUDY FOR B-2 & B-3.

NOTE: SEDIMENT TRAP SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND ITS PERIMETER IN ACCORDANCE WITH VOLUME I., CHAPTER 12, OF HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

SEDIMENT TRAP #2

TYPE OF TRAP	Stone Outlet
DRAINAGE AREA (Ac.)	0.37
STORAGE REQUIRED (C.F.)	667
STORAGE PROVIDED (C.F.)	720
STORAGE ELEVATION (FT.)	400.0
STORAGE DEPTH (FT.)	1
WEIR WIDTH (FT.)	4
BOTTOM ELEVATION (FT.)	399.0
CLEANOUT ELEVATION (FT.)	399.5
CREST ELEVATION (FT.)	401.0
TOP ELEVATION (FT.)	402.0

STOCKPILE AREA

TRAP #3

TRAP #2

FREDERICK ROAD

VALLEY ROAD (HOWARD COUNTY PUBLIC ROAD)

IMPROVED DEPARTMENT OF PUBLIC WORKS FOR STORM DRAINAGE SYSTEMS AND ROADS.

James M. Melvin 8/24/92
DIRECTOR, PUBLIC WORKS DATE

2/8/92
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

James S. Reuter 9/1/92
PLANNING DIRECTOR DATE

Annmarie Hummel 8/20/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

James M. Boyd 8/26/92
HEALTH OFFICER 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.

James M. Melvin 7/27/92
U.S. Soil Conservation Service DATE

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Robert Zelnick 7/27/92
Howard Soil Conservation District DATE

DEVELOPER'S CERTIFICATE

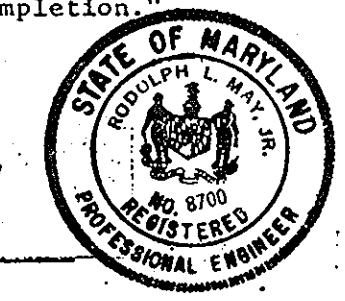
"I/we certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will 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."

C. J. Connor II 4/20/91
SIGNATURE OF 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 must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Robert Zelnick 11-20-91
SIGNATURE OF ENGINEER DATE



LAND DESIGN ENGINEERING, INC.

10520 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301)804-8264 • (301)800-0314

DESIGNED	SCALE
W.A.J.	1"=30'
DRAWN	DRAWING
W.A.J.	3 OF 6
CHECKED	JOB NO.
R.L.M.	90-202-B
DATE	FILE NO.
4/92	

SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
PARISH LIFE CENTER
ST. JOHN'S EPISCOPAL CHURCH
PHASE TWO
TAX MAP 24 BLOCK 11 P/O PARCEL 535
LIBER 1822 FOLIO 570
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
BA 87486 PREVIOUS FILE NO. SDP 73-35 BA 90-55E
SDP 82-11

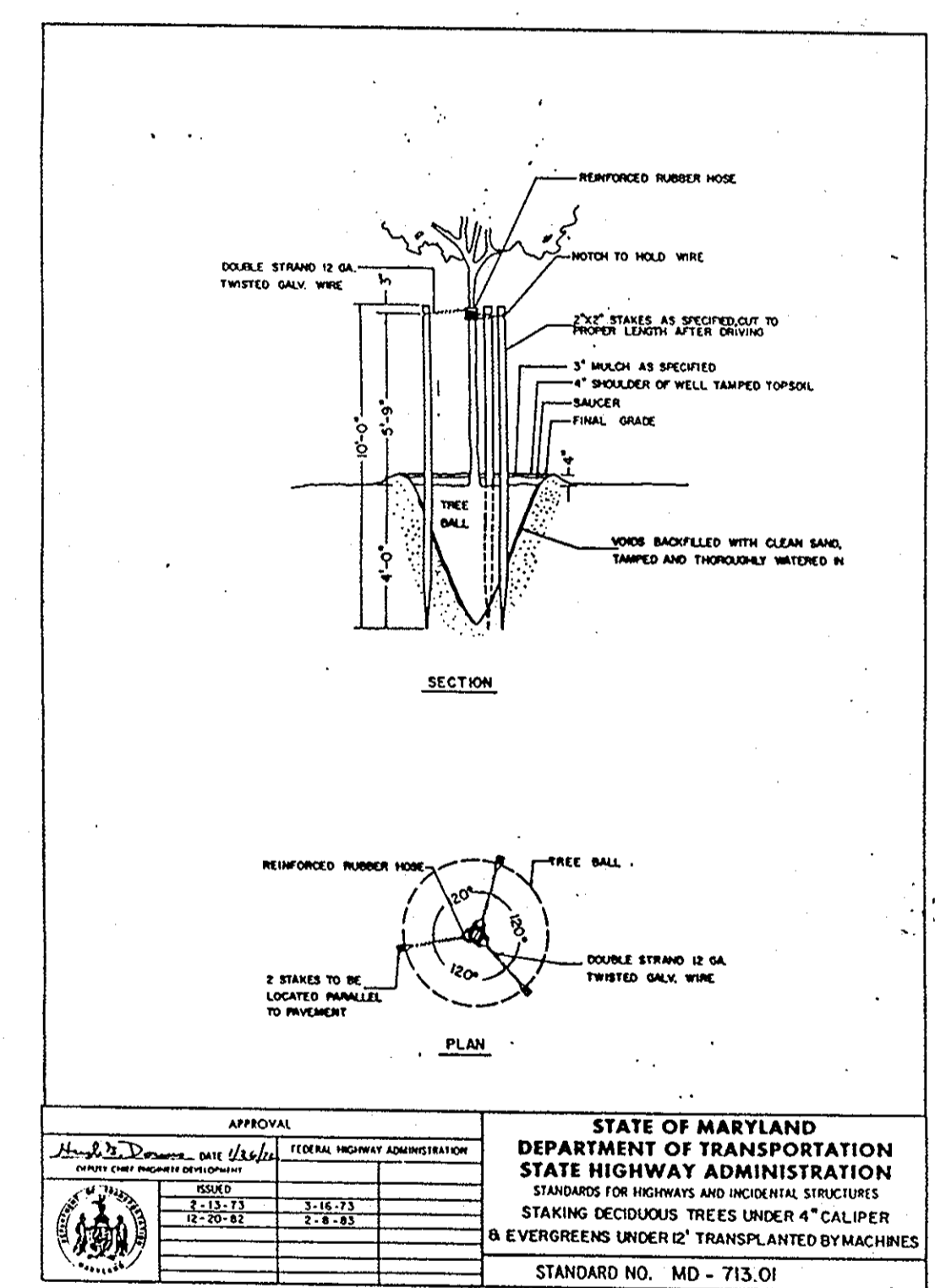
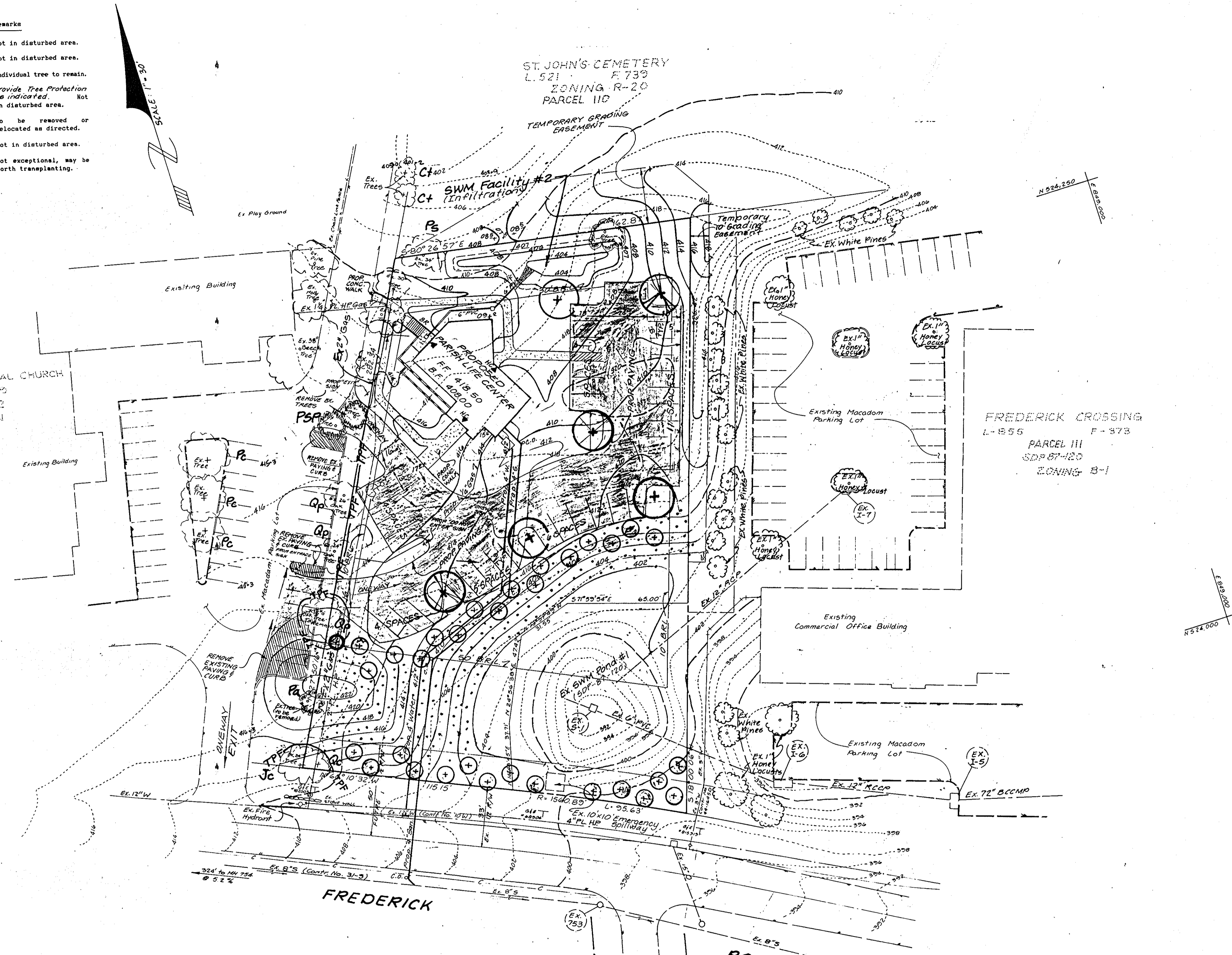
OWNER/DEVELOPER
ST. JOHN'S EPISCOPAL CHURCH
2120 FREDERICK RD.
ELLCOTT CITY, MD 21043
Phone: 465-9531

Plant Key - Existing Plant Material

Symbol	Botanical Name	Common Name	Remarks
Ct	Chaenocypariss Thyoides	White Cypress	Not in disturbed area.
Jc	Prunus Serrulata	Japanese Cherry	Not in disturbed area.
Qc	Quercus Coccinea	Scarlet Oak	Individual tree to remain.
Qp	Quercus Palustris	Pin Oak	Provide Tree Protection as indicated. Not in disturbed area.
Pa	Picea Abies	Koransy Spruce	To be removed or relocated as directed.
Pc	Pyrus Calleryana	Callery Pear	Not in disturbed area.
PSP	Prunus Subhirtella Pendula	Weeping Cherry	Not exceptional, may be worth transplanting.

Landscape Legend

- Ex. Plant Material to Remain
- Ex. Plant Material to be Removed or Transplanted



APPROVAL	DATE	FEDERAL HIGHWAY ADMINISTRATION
	8/24/92	
	8/24/92	
	8/24/92	

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
STAKING DECIDUOUS TREES UNDER A "CALIPER"
B EVERGREENS UNDER "2" TRANSPLANTED BY MACHINES
STANDARD NO. MD - 713.01

APPROVED: DEPARTMENT OF PUBLIC WORKS,
FOR STORM DRAINAGE
SYSTEMS AND ROADS.

James P. Slum 8/24/92
DIRECTOR, PUBLIC WORKS

William R. Reig 8/24/92
CHIEF, BUREAU OF ENGINEERING

APPROVED: DEPARTMENT OF PLANNING AND ZONING

James P. Slum 8/24/92
PLANNING DIRECTOR

William R. Reig 8/24/92
CHIEF, DIVISION OF COMMUNITY
PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
FOR PUBLIC WATER AND SEWERAGE
SYSTEMS.

James M. Boyd 8/24/92
HEALTH OFFICER

PLANT LIST

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
	32	WHITE PINE	PINUS STROBUS	5' TO 6' H	B & B
	3	REDSPIRE PEAR	PYRUS CALLERYANA BRADFORD REDSPIRE	1 1/2" TO 2" CAL.	B & B
	3	RED MAPLES	ACER RUORUM	2" CAL.	B & B
	3600	CROWN VETCH	CORONILLA VARIA	3" TO 4"	SPACE 18" O.C.

SPECIAL SLOPE STABILIZATION: ALL SLOPES 3:1 OR STEEPER SHALL BE STABILIZED BY A PERMANENT GROUND COVER (CROWN VETCH / CORONILLA VARIA OR APPROVED EQUAL)

TPF — TPF TREE PROTECTION FENCE

LAND DESIGN ENGINEERING, INC.
10520 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301)604-8284 • (301) 880-0034

DESIGNED	LANDSCAPE PLAN PARISH LIFE CENTER ST. JOHN'S EPISCOPAL CHURCH PHASE TWO	SCALE 1" = 30'
DRAWN	TAX MAP 24 BLOCK 11 F/O PARCEL 535 LIBER 1822 FOLIO 570	DRAWING 4 OF 6
CHECKED	2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 90-202.8
DATE	8/24/92 PREVIOUS FILE NO. SDP 73-35 BA 20-55E 8/24/92	FILE NO.

OWNER/DEVELOPER
ST. JOHN'S EPISCOPAL CHURCH
9120 FREDERICK RD.
ELLCOTT CITY, MD. 21043
Phone: 425-9531



STORMWATER MANAGEMENT POND CONSTRUCTION SPECIFICATIONS

I. Site Preparation

Areas designated for borrow areas, embankment, pond and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. A sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other areas to be seeded.

II. Earth Fill

Materials: The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification (U, S, C, G, or O). Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement: Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

Compaction: The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment to be used. The fill material shall contain sufficient moisture so that if forced into a ball it will not crumble yet not be so wet that water can be squeezed out.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content plus/minus 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to be determined by ASTM Method T-99.

III. Structural Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall the equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. Pipe Conduits

All pipes shall be circular in cross section.

A. Corrugated Metal Pipe All of the following criteria shall apply for corrugated metal pipes:

- Materials:** (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of ARSHTO Specifications M-190 Type "1" with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Nexon, Plasticoat, Baco-1140, and Baco-1140-Lite. Coated corrugated steel pipe shall meet the requirements of ARSHTO M-245 and M-246.

Materials: (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of ARSHTO Specification M-274 with watertight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials: (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of ARSHTO Specification M-196 or M-211 with watertight coupling bands or flanges. The aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

- Coupling bands, anti-seep collars, and sections, etc., must be composed of the same materials as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

- Connections: All connections with pipes must be completely watertight. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Diplo bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of corrugations to accommodate the band width. The following type connections are acceptable for pipes less than 48" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket; and a 12" wide rubber type band with 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24". Helically corrugated pipe shall have either continuously welded seams or have lock seams.

- Bedding: The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

- Backfilling shall conform to "Structural Backfill".

- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

B. Reinforced Concrete Pipe

All of the following criteria shall apply for reinforced concrete pipe:

- Materials:** Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Specification C-381. An approved equivalent is ARSHTO Specification C-382.
- Bedding:** All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 20% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.
- Laying pipe:** Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.
- Backfilling shall conform to "Structural Backfill".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

C. Polyvinyl Chloride (PVC) Pipe

All of the following criteria shall apply for polyvinyl chloride (PVC) pipe:

- Materials:** PVC pipe shall be PVC-11208 or PVC-12208 conforming to ASTM D-1785 or ASTM D-2241.
- Joints and connections:** Joints and connections to anti-seep collars shall be completely watertight.
- Bedding:** The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
- Backfilling shall conform to "Structural Backfill".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. Rock Riprap

All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subangular in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

- Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when solidified sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

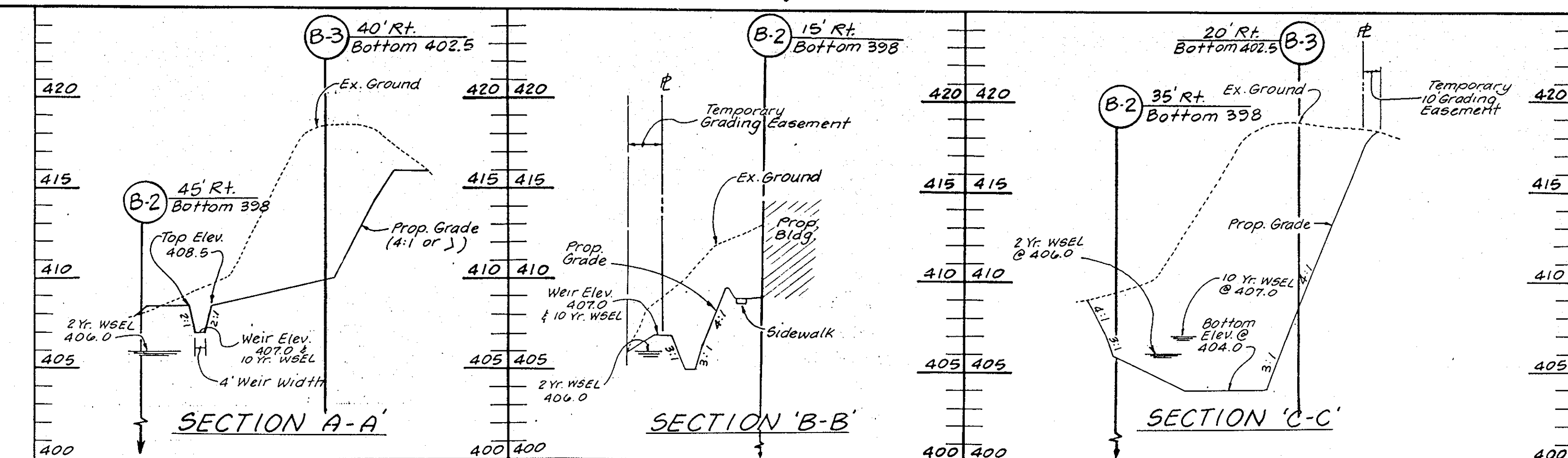
The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

VI. Stabilization

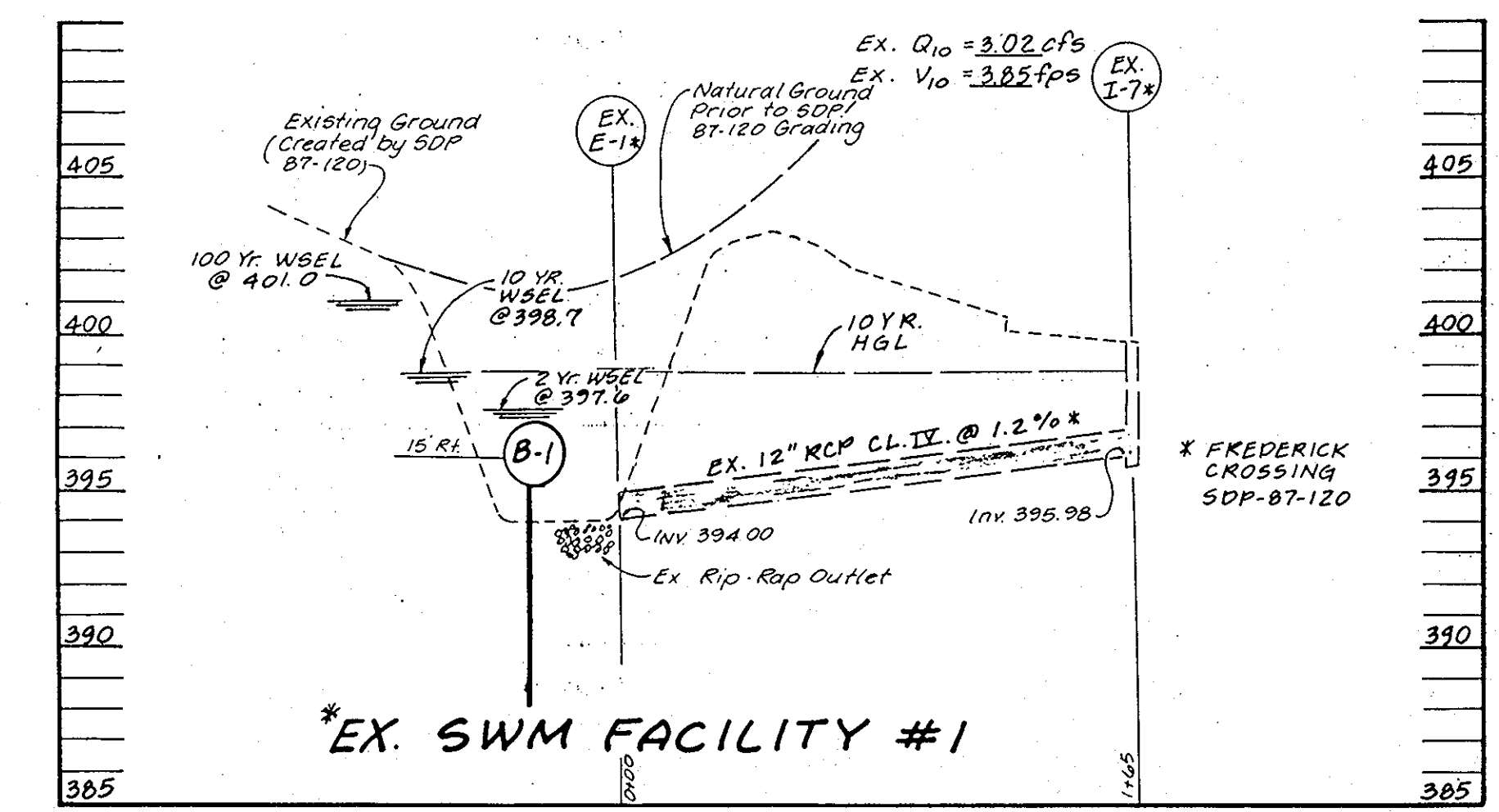
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings.

VII. Erosion and Sediment Control

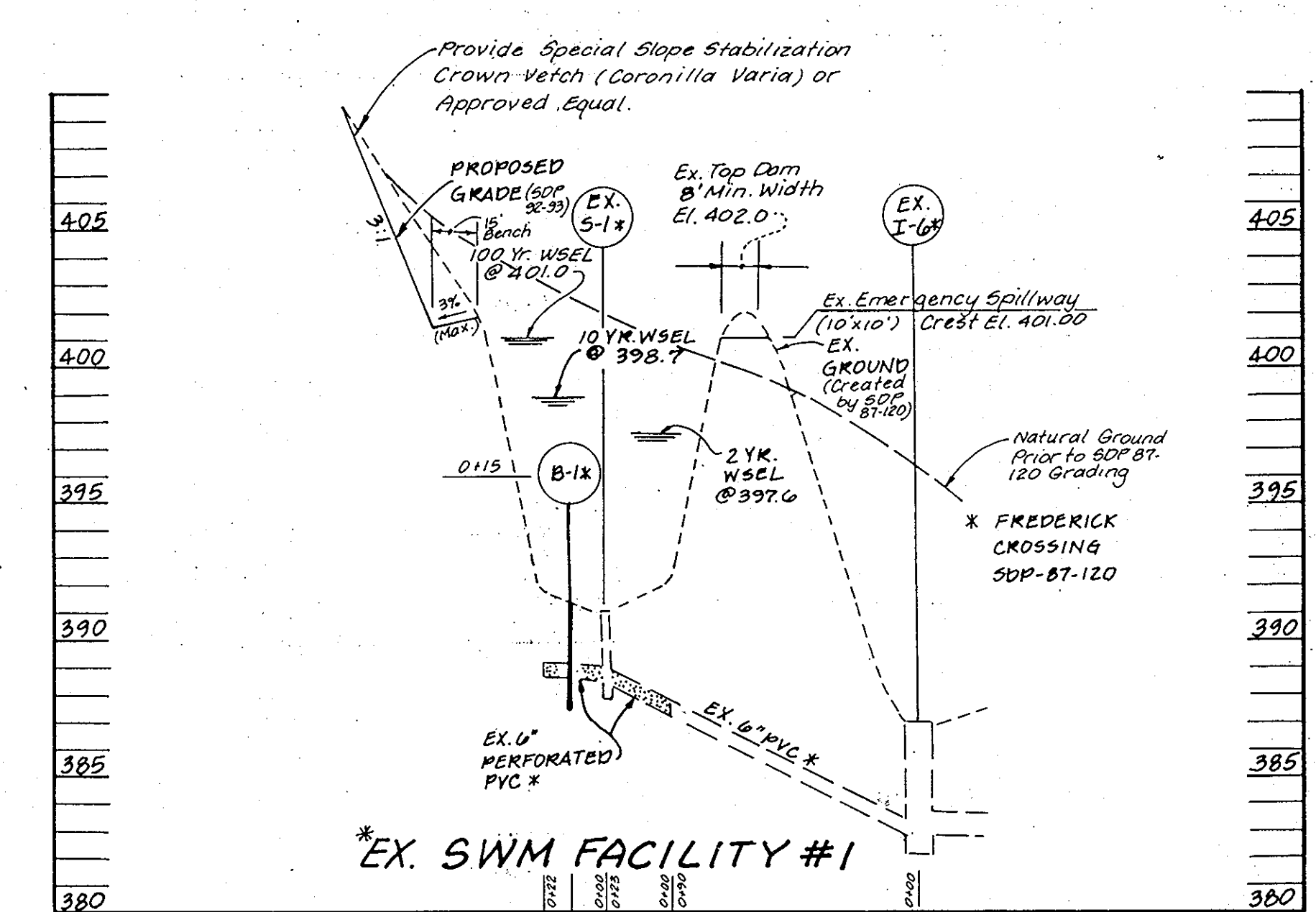
Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.



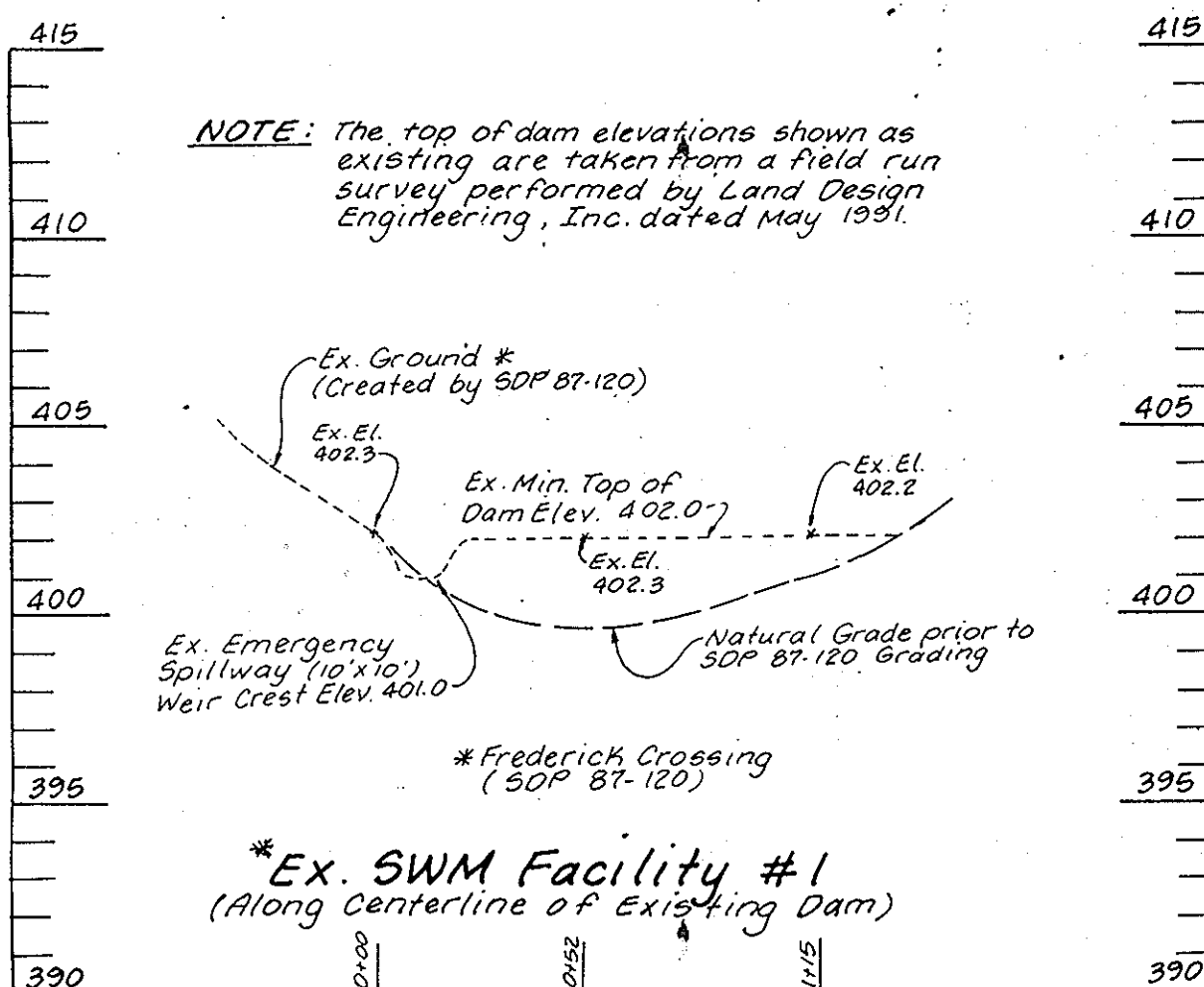
SWM FACILITY #2
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



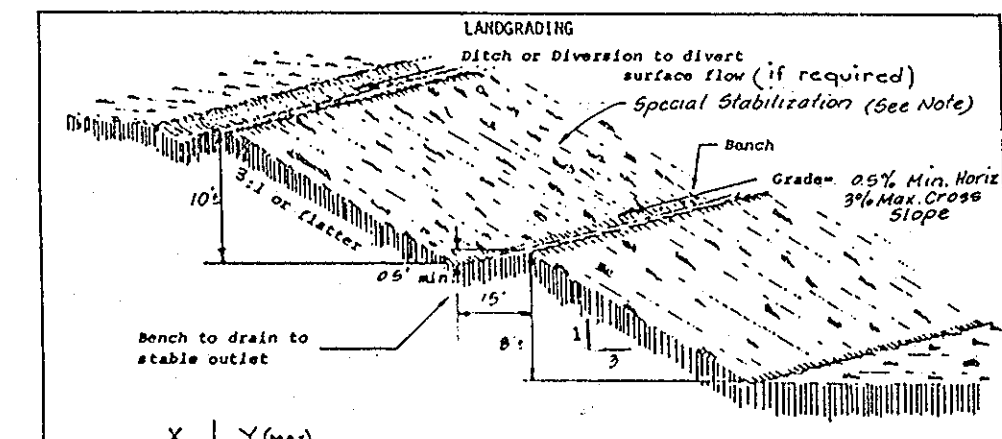
SECTION A-A
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



SECTION B-B
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



SECTION C-C
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.



LANDGRADING
Bench to drain to stable outlet.

- All graded or disturbed areas on existing slopes shall be protected during clearing and construction in accordance with the approved sediment control plan until they are permanently stabilized.
- All sediment control practices and measures shall be constructed, applied and maintained in accordance with the approved sediment control plan and the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas".
- Topsoil required for the reestablishment of vegetation shall be stockpiled in amount necessary to complete finished grading of all exposed areas.
- Areas to be filled shall be cleared, grubbed and stripped of topsoil to remove trees, vegetation, roots or other objectionable material.
- Areas which are to be stabilized shall be scarified to a minimum depth of three inches prior to placement of topsoil.
- All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fills intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or codes.
- All fills to be placed and compacted in layers not to exceed 8 inches in thickness.
- Except for approved landfills, fill material shall be free of brush, rubbish, rocks, litter, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fills.
- Frozen materials or soft, sticky or highly compressible materials shall not be incorporated into fills.
- Fill shall not be placed on a frozen foundation.
- All borrow areas shall be kept free of sediment during all phases of development.
- Steps or springs encountered during construction shall be handled in accordance with the Standards and Specifications for Subsurface Drain or other approved method.
- All graded areas shall be permanently stabilized immediately following finished grading.
- Stabilized borrow areas and spoil areas shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
College Park, Md.

APPROVED: DEPARTMENT OF PUBLIC WORKS
FOR STORM DRAINAGE SYSTEMS AND ROADS.
Director, Public Works: [Signature] 8/24/92
Chief, Bureau of Engineering: [Signature] 8/3/92

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Planning Director: [Signature] 9/11/92
Chief, Division of Community Planning and Land Development: [Signature] 8/24/92

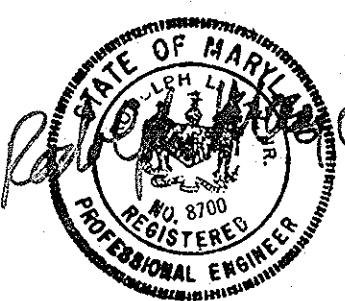
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
Health Officer: [Signature] 8/26/92

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] 7/27/92
S.S. Soil Conservation Service

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
[Signature] 7/28/92
Howard Soil Conservation District

DEVELOPER'S CERTIFICATE
"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 will 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] 1/20/91
SIGNATURE OF DEVELOPER

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 must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."
[Signature] 11-20-91
SIGNATURE OF ENGINEER



LAND DESIGN ENGINEERING, INC.
10620 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301)604-8264 • (301)600-0034

DESIGNED L.M.	SCALE AS SHOWN
DRAWN E.D.B.	DRAWING G OF G
CHECKED RLM	JOB NO. 90-202-B
DATE 4/92	FILE NO.

SWM PROFILES AND DETAILS
PARISH LIFE CENTER
ST. JOHN'S EPISCOPAL CHURCH
PHASE TWO
TAX MAP 2A BLOCK 11 PID PARCEL 535
LIBER 1822 FOLIO 570
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PREVIOUS FILE NO. SDF 73-35 BA 80-35E
SDF 92-11

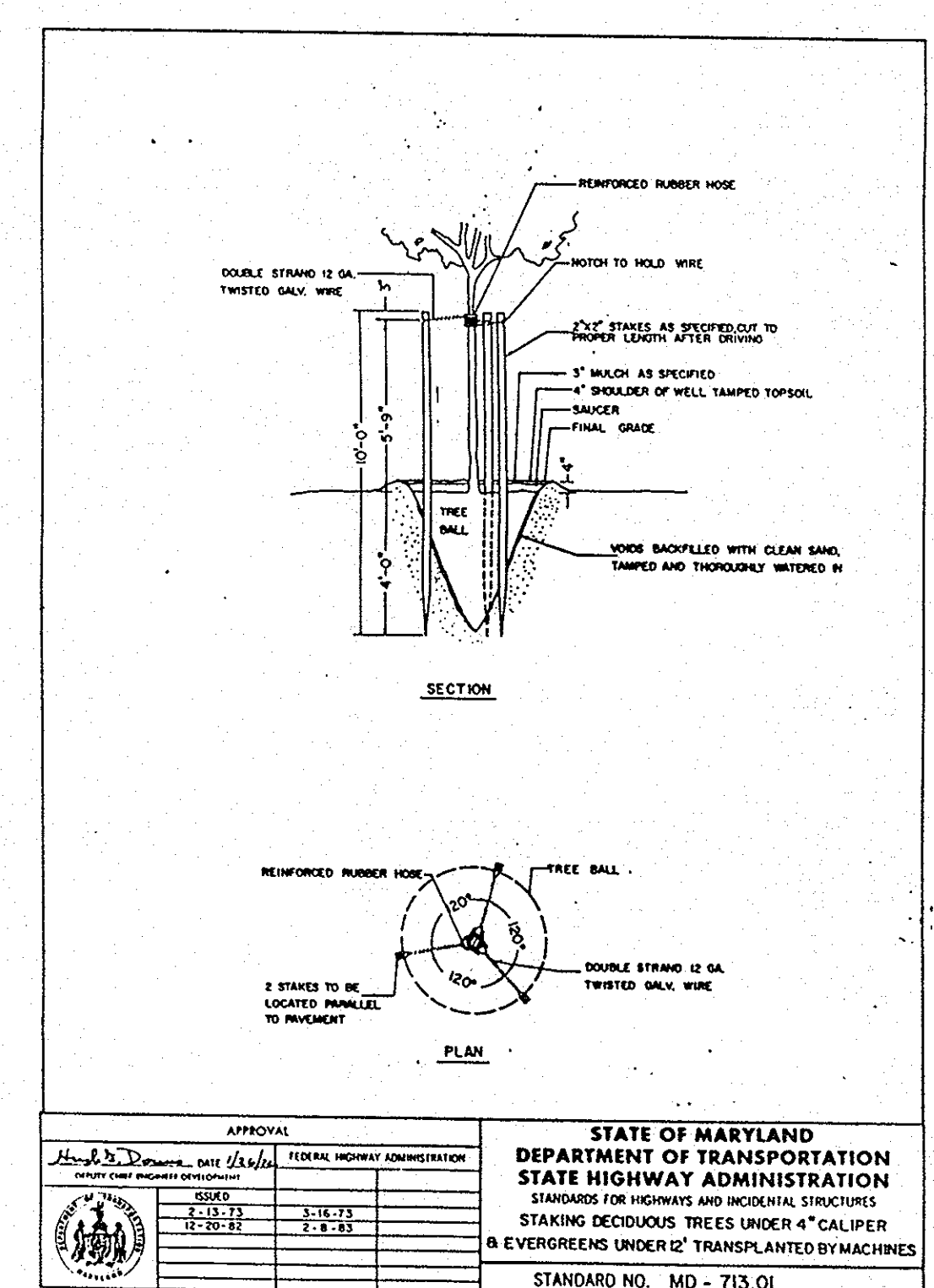
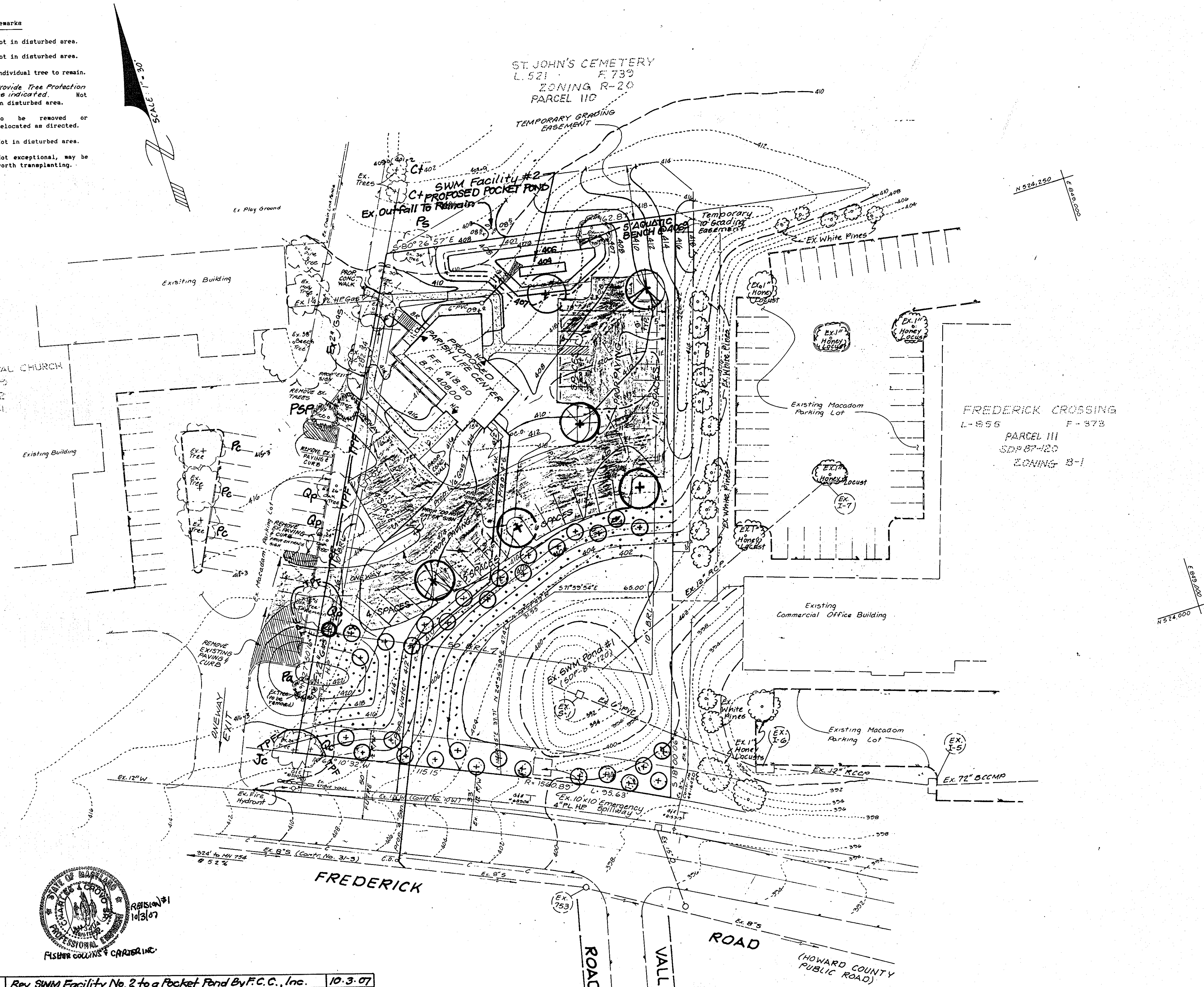
OWNER/DEVELOPER
ST. JOHN'S EPISCOPAL CHURCH
9120 FREDERICK RD.
ELLICOTT CITY, MD. 21043
Phone: 465-3831

Plant Key - Existing Plant Material

Symbol	Botanical Name	Common Name	Remarks
Ct	Chamaecyparuss Thyoides	White Cypress	Not in disturbed area.
Jc	Prunus Serrulata	Japanese Cherry	Not in disturbed area.
Qc	Quercus Coccinea	Scarlet Oak	Individual tree to remain.
Qp	Quercus Palustris	Pin Oak	Provide Tree Protection as indicated. Not in disturbed area.
Pa	Picea Abies	Norway Spruce	To be removed or relocated as directed.
Pc	Pyrus Calleryana	Callery Pear	Not in disturbed area.
PSP	Prunus Subhirtella Pendula	Weeping Cherry	Not exceptional, may be worth transplanting.

Landscape Legend

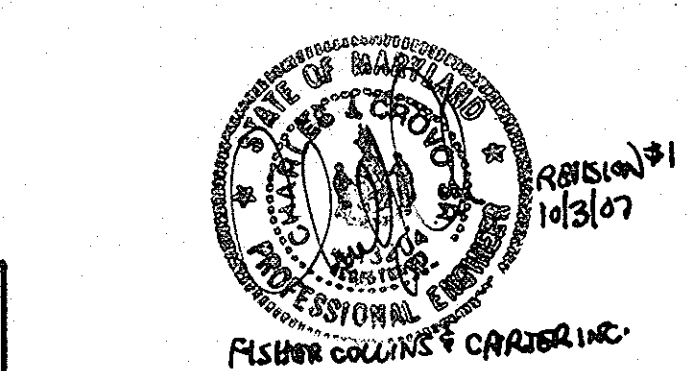
- Ex. Plant Material to Remain
- Ex. Plant Material to be Removed or Transplanted



APPROVED: DEPARTMENT OF PUBLIC WORKS FOR STORM DRAINAGE SYSTEMS AND ROADS.
 Director: James M. Boyle
 Date: 8/24/92

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 Planning Director: James M. Boyle
 Date: 8/24/92

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
 Health Officer: James M. Boyle
 Date: 8/24/92



1	Rev. SWM Facility No. 2 to a Pocket Pond By F.C.C., Inc.	10.3.07
2	REVISIONS	Date

PLANT LIST

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
	32	WHITE PINE	PINUS STROBUS	5' TO 6' H	B&B
	3	REDSPIRE PEAR	PYRUS CALLERYANA BRADFORD REDSPIRE	1 1/2" TO 2" CAL.	B&B
	3	RED MAPLES	ACER RUBRUM	2" CAL.	B&B
	3600	CROWN VETCH	CORONILLA VARIA	3" TO 4"	SPACE 18" O.C.

SPECIAL SLOPE STABILIZATION: ALL SLOPES 3:1 OR STEEPER SHALL BE STABILIZED BY A PERMANENT GROUND COVER (CROWN VETCH / CORONILLA VARIA OR APPROVED EQUAL)

TPF — TPF TREE PROTECTION FENCE

LAND DESIGN ENGINEERING, INC.
 10020 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301) 604-6264 • (301) 800-0034

DESIGNED	LANDSCAPE PLAN	SCALE
DRAWN	PARISH LIFE CENTER	1" = 30'
WAS	ST. JOHN'S EPISCOPAL CHURCH	
CHECKED	PHASE TWO	
RLM	TAX MAP 24 BLOCK 11 P/O PARCEL 535	4 OF 6
DATE	LIBER 1822 FOLIO 570	
	2ND ELECTION DISTRICT	JOB NO.
	HOWARD COUNTY, MARYLAND	90-202.8
	BA 87-48 PREVIOUS FILE NO. SDP 73-35	FILE NO.
4/92	BA 90-55E	

OWNER/DEVELOPER
 ST. JOHN'S EPISCOPAL CHURCH
 9120 FREDERICK RD.
 ELLICOTT CITY, MD. 21043
 Phone: 465-9531

SEDIMENT TRAP #1

TYPE OF TRAP	STONE OUTLET
DRAINAGE AREA (AC.)	0.45
STORAGE REQUIRED (C.F.)	810
STORAGE PROVIDED (C.F.)	850 C.F.
STORAGE ELEVATION (FT.)	406.0
STORAGE DEPTH (FT.)	1
WEIR WIDTH (FT.)	4
BOTTOM ELEVATION (FT.)	405.0
CLEANOUT ELEVATION (FT.)	405.5
CREST ELEVATION (FT.)	407.0
TOP ELEVATION (FT.)	408.5

NOTE: Rip-Rap Outfall to be constructed at a later time. See note # 10 - Construction Sequence.

ST. JOHN'S CEMETERY
L. 521 F. 739
ZONING R-20
PARCEL 110.

TRAP #1

SILT FENCE

SWM FACILITY #2
PROPOSED POCKET

EARTH DIKE (A-2)

EXISTING BUILDING

ST. JOHN'S EPISCOPAL CHURCH
L. 166 F. 700
L. 170 F. 802
L. 301 F. 551
ZONING R-20
PARCEL 535

FREDERICK CROSSING
L-555 F-373
PARCEL 111
SDP 87-120
ZONING B-1

SEDIMENT TRAP #3

TYPE OF TRAP	Stone Outlet
DRAINAGE AREA (AC.)	0.29
STORAGE REQUIRED (C.F.)	522
STORAGE PROVIDED (C.F.)	585
STORAGE ELEVATION (FT.)	400.0
STORAGE DEPTH (FT.)	1
WEIR WIDTH (FT.)	4
BOTTOM ELEVATION (FT.)	399.0
CLEANOUT ELEVATION (FT.)	399.5
CREST ELEVATION (FT.)	401.0
TOP ELEVATION (FT.)	402.0

SEDIMENT TRAP #2

TYPE OF TRAP	Stone Outlet
DRAINAGE AREA (AC.)	0.37
STORAGE REQUIRED (C.F.)	647
STORAGE PROVIDED (C.F.)	720
STORAGE ELEVATION (FT.)	400.0
STORAGE DEPTH (FT.)	1
WEIR WIDTH (FT.)	4
BOTTOM ELEVATION (FT.)	399.0
CLEANOUT ELEVATION (FT.)	399.5
CREST ELEVATION (FT.)	401.0
TOP ELEVATION (FT.)	402.0

Construction Sequence

1. Obtain grading permit.
2. Construct stabilized construction entrance. Install tree protection fence and silt fence in location indicated on the plan. Install sediment traps.
3. Clear and grub site to subgrade. Remove ornamental landscaping, and existing paving, etc. as required. Stockpile stripped topsoil in area indicated on plan.
4. Excavate foundation for building. Begin construction of building and utilities.
5. Install base course of parking lot.
6. Remove sediment from roadways and dress stabilized construction entrance as required.
7. The contractor shall inspect and provide necessary maintenance on the sediment and erosion control measures shown hereon, after each rainfall and on a daily basis.
8. Complete building and utility construction. Remove stabilized construction entrance, clean base course, apply tack coat and lay surface course.
9. Fine grade site and stabilize all disturbed areas using permanent seeding mixture and straw mulch.
10. After all areas draining to the existing stormwater management pond have been stabilized, with approval of sediment control inspector, remove traps 2 and 3 and construct bench channel area. Stabilize disturbed areas using permanent seeding mixture and straw mulch. After areas draining to trap #1 have been stabilized, grade to SWH #2 pond bottom of 404.0, and provide rip-rap outfall to specifications shown on sheet 2 - Site Development Plan.
11. After permission has been given by the sediment control inspector, remove remaining sediment control measures and stabilize all areas using permanent seeding mixture and straw mulch.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CONTOUR INTERVAL
- SILT FENCE
- EARTH DIKE
- LIMIT OF DISTURBANCE
- TRAP DRAINAGE DIVIDE
- STORM DRAIN DRAINAGE DIVIDE
- SOIL BORING

* NOTE: SEE LANDSCAPE PLAN FOR SPECIAL SITE STABILIZATION AREAS AND TREE PROTECTION FENCE LOCATIONS. SEE SHEET 4 OF 6.

NOTE: FOR SOIL BORING B-1 LOG SEE FREDERICK CROSSING, SDP 87-120. SEE GEOTECHNICAL REPORT IN SWM STUDY FOR B-2 & B-3.

NOTE: SEDIMENT TRAP SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND ITS PERIMETER IN ACCORDANCE WITH VOLUME I., CHAPTER 12, OF HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

IMPROVED: DEPARTMENT OF PUBLIC WORKS FOR STORM DRAINAGE SYSTEMS AND ROADS.

James M. Nelson 8/24/92
DIRECTOR, PUBLIC WORKS

James M. Nelson 8/24/92
CHIEF, BUREAU OF ENGINEERING

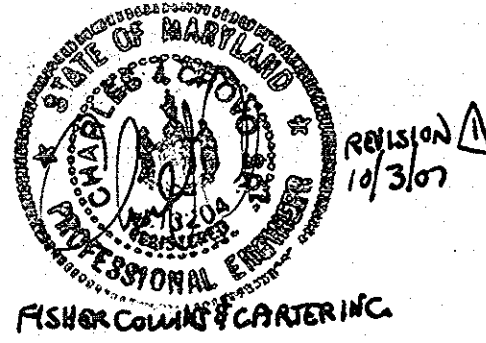
APPROVED: DEPARTMENT OF PLANNING AND ZONING

James M. Nelson 9/1/92
PLANNING DIRECTOR

Anna H. Harnish 8/20/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

James M. Boyd 8/26/92
HEALTH OFFICER



NO.	REVISIONS	Date
1	Rev. SWM Facility #22 to a Pocket Pond By F.C.C., Inc.	10-3-97
2		

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.

James M. Nelson 11/21/92
S.S. Soil Conservation Service

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Robert W. Ziehn 7/27/92
Howard Soil Conservation District

DEVELOPER'S CERTIFICATE

"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 will 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."

C. S. Gannon II 4/20/91
SIGNATURE OF DEVELOPER

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 must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Robert W. Ziehn 11-20-91
SIGNATURE OF ENGINEER

LAND DESIGN ENGINEERING, INC.

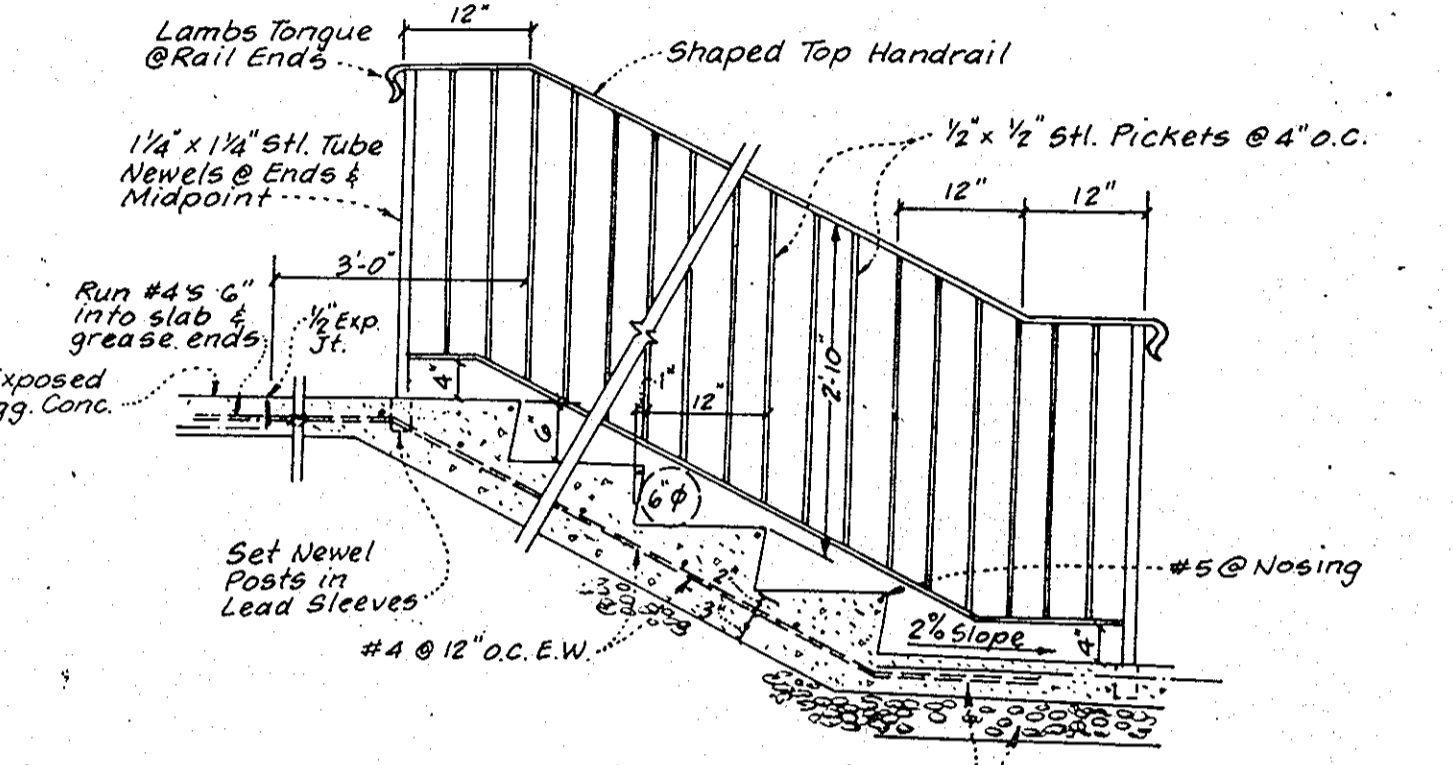
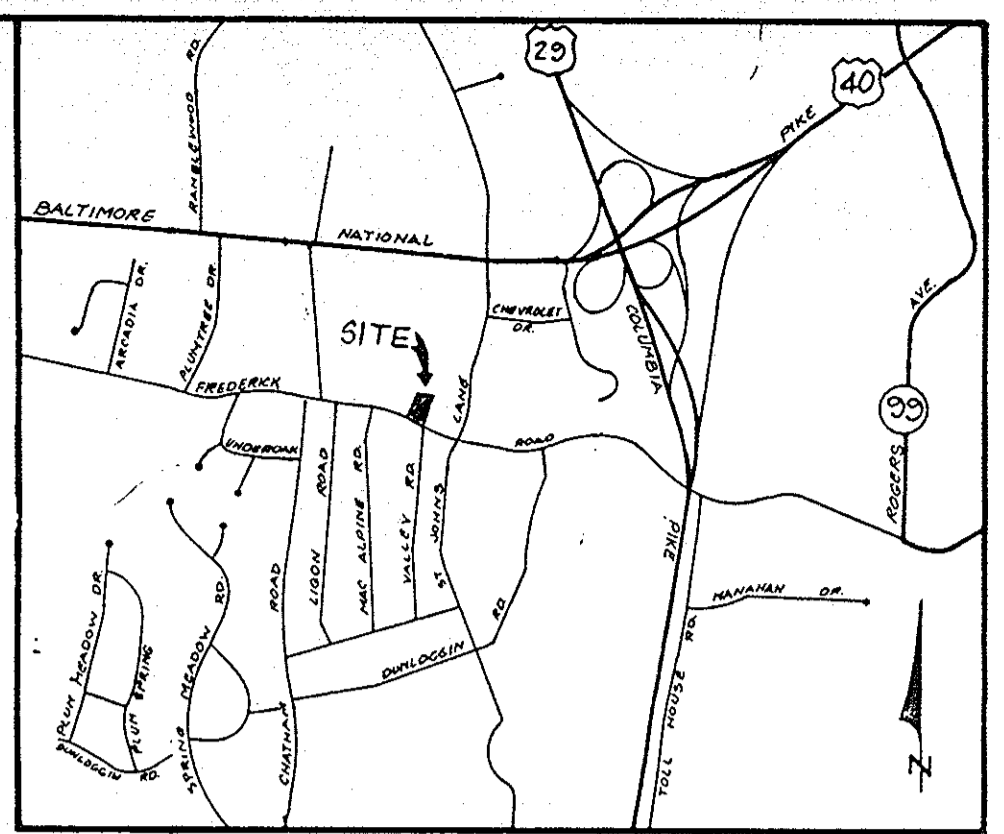
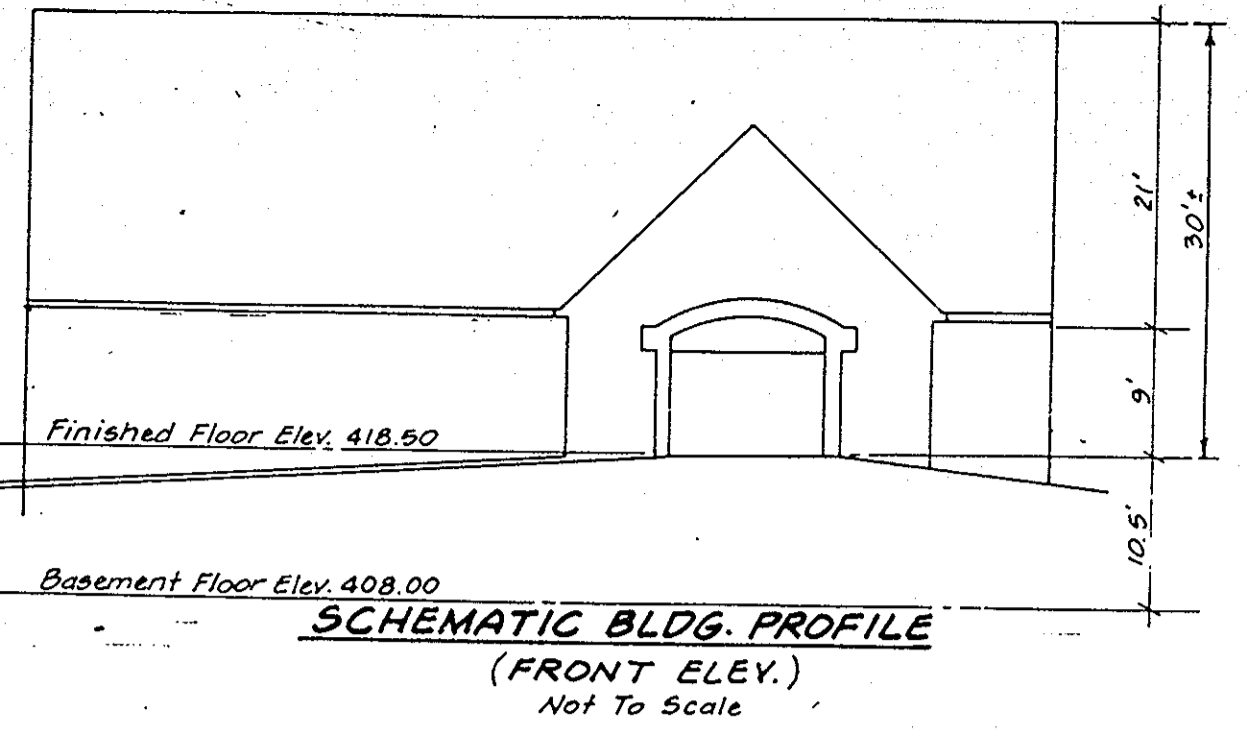
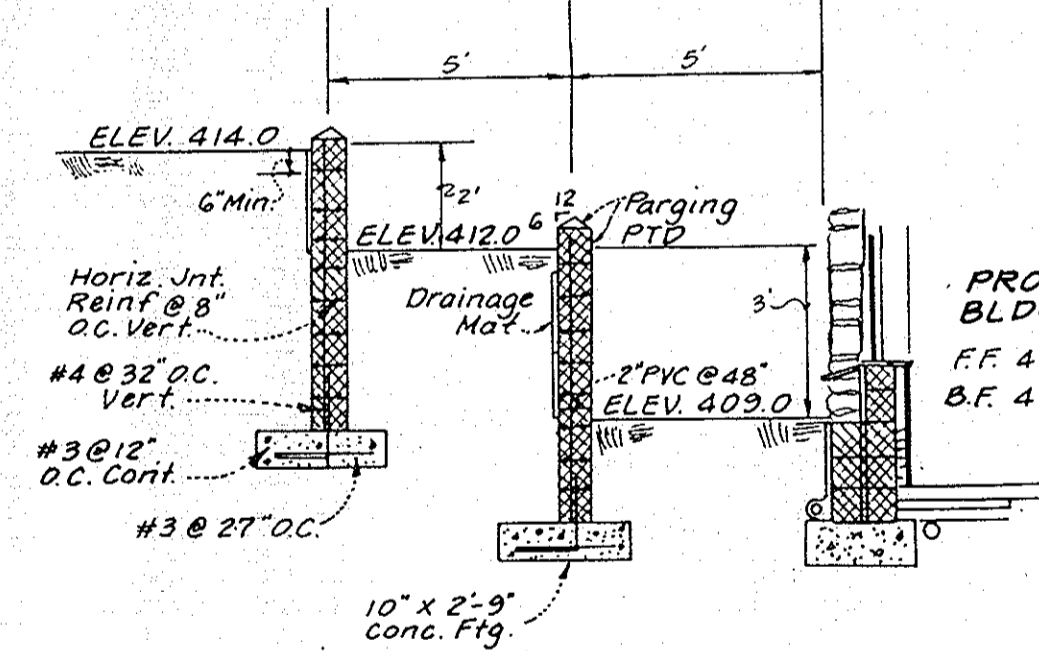
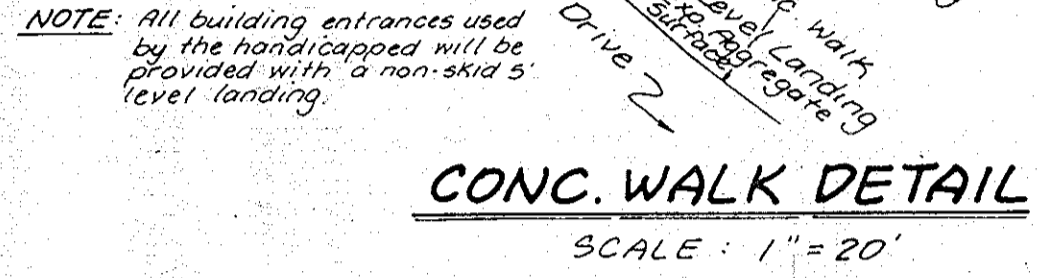
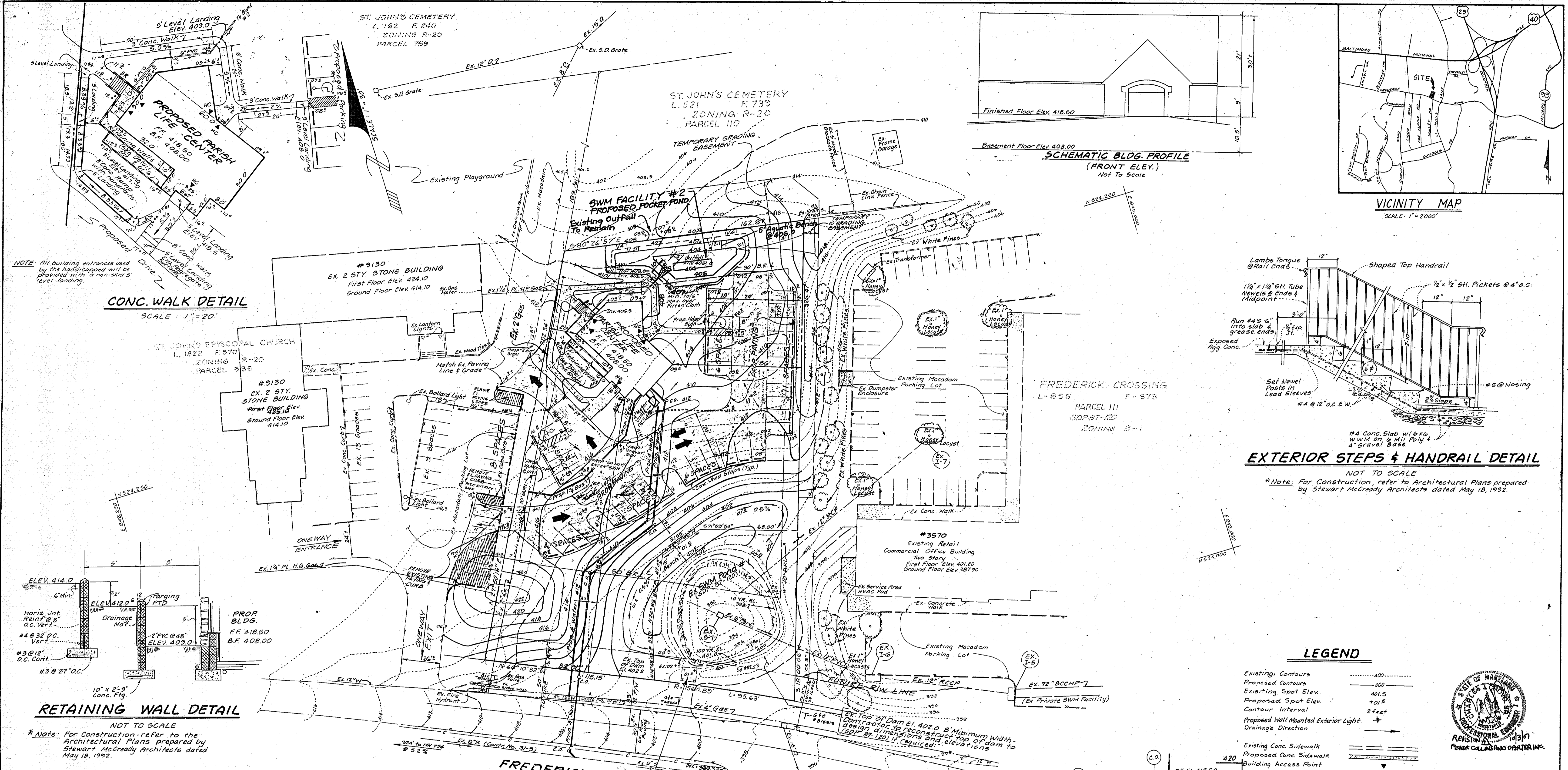
10620 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301) 604-8264 • (301) 880-0334

DESIGNED	SCALE
DRAWN	1"=30'
CHECKED	DRAWING
DATE	3 OF 6
	JOB NO.
	90-202-B
	FILE NO.

SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
PARISH LIFE CENTER
ST. JOHN'S EPISCOPAL CHURCH
PHASE TWO
TAX MAP 24 BLOCK 11 P10 PARCEL 535
LIBER 1822 FOLIO 570
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
BA 87-48E PREVIOUS FILE NO. SDP 73-35 BA 90-55E
SDP 92-11

OWNER/DEVELOPER
ST. JOHN'S EPISCOPAL CHURCH
9120 FREDERICK RD.
ELLCOTT CITY, MD 21043
Phone: 465-9531

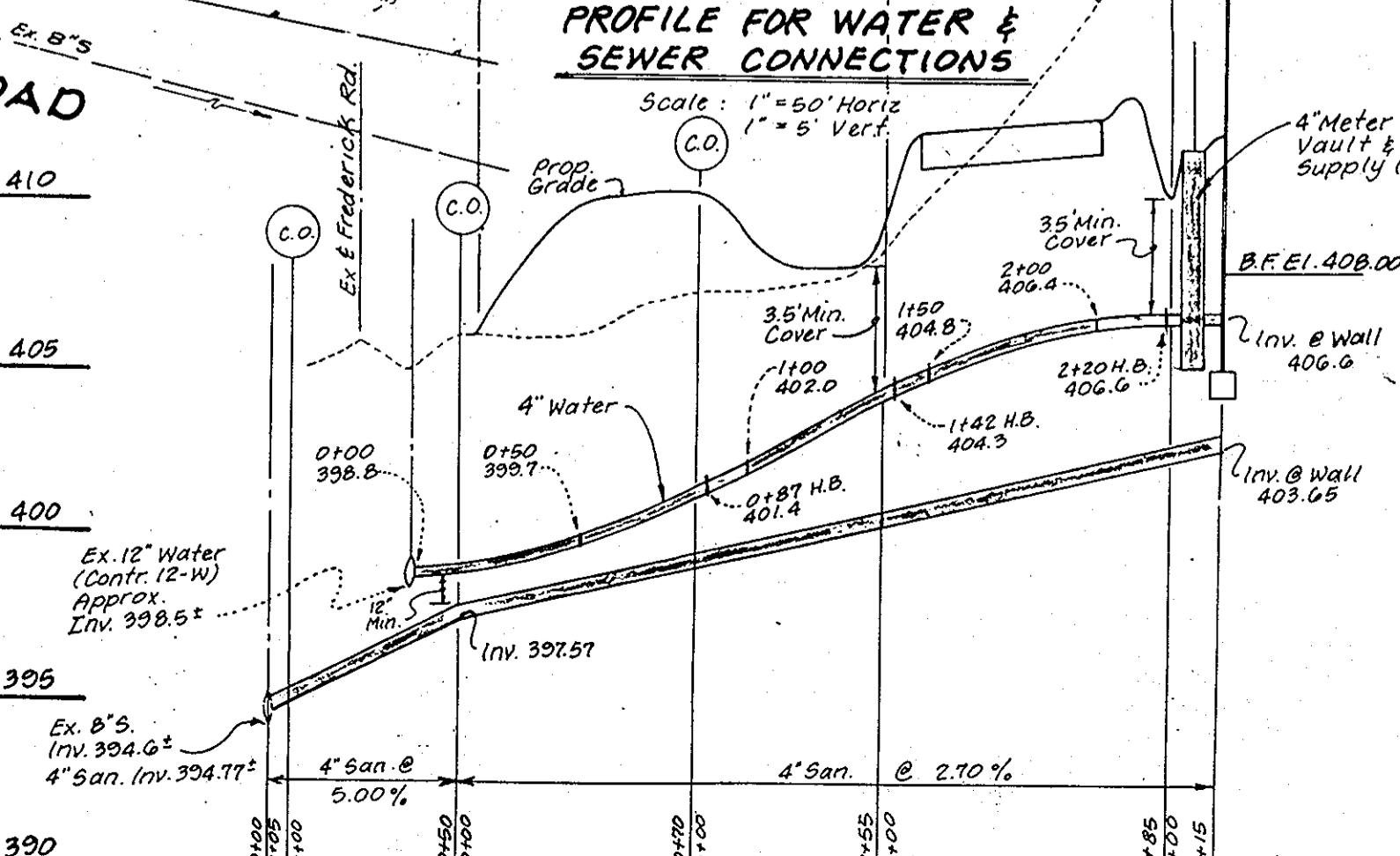
DATE 4/92



EXTERIOR STEPS & HANDRAIL DETAIL
NOT TO SCALE
*Note: For Construction, refer to Architectural Plans prepared by Stewart McCready Architects dated May 18, 1992.

LEGEND

Existing Contours	-----	400.00
Proposed Contours	-----	400
Existing Spot Elev.	+	401.5
Proposed Spot Elev.	+	401.5
Contour Interval		2 feet
Proposed Wall Mounted Exterior Light	★	
Drainage Direction	→	
Existing Conc. Sidewalk	=====	
Proposed Conc. Sidewalk	=====	
Building Access Point	▽	
Handicap Building Access Point	▽	
Existing Paving	=====	
Proposed Paving	=====	
Existing Paving (to be removed)	=====	
One way Traffic Direction	→	
Existing Concrete Curb	=====	
Existing Concrete Curb (to be removed)	=====	



APPROVED: DEPARTMENT OF PUBLIC WORKS.
FOR STORM DRAINAGE SYSTEMS AND ROADS.

James P. [Signature] 8/24/92
DIRECTOR, PUBLIC WORKS DATE

[Signature] 8/24/92
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

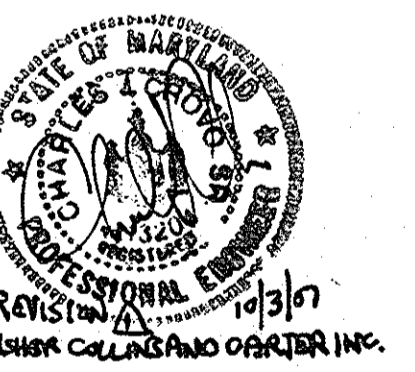
[Signature] 9/11/92
PLANNING DIRECTOR DATE

[Signature] 8/20/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT
FOR PUBLIC WATER AND SEWERAGE SYSTEMS.

Joyce M. [Signature] 8/25/92
HEALTH OFFICER DATE

1 Rev. SWM Facility No 2 to a Pocket Pond By F.C.C. Loc. 10.2.07
1/90 REVISIONS Date

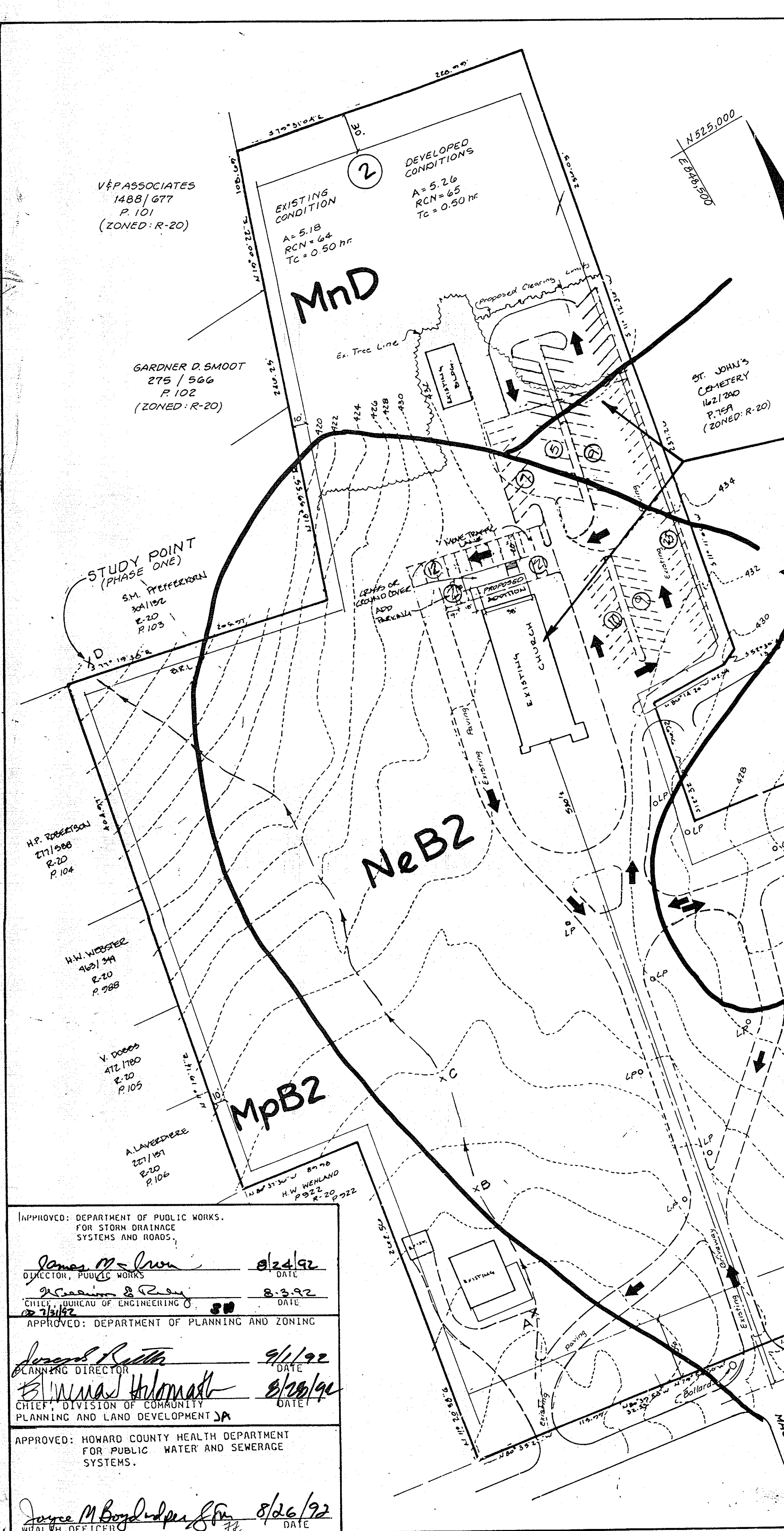


LAND DESIGN ENGINEERING, INC.
10620 Guilford Road • Suite 210 • Jessup • Maryland 20794 • (301) 604-8264 • (301) 800-0034

DESIGNED	400	SCALE	1" = 30'
DRAWN	400	DRAWING	2 OF 6
WAS	395	JOB NO.	90-202.B
CHECKED	395	FILE NO.	
RLM	4/92		

SITE DEVELOPMENT PLAN
PARISH LIFE CENTER
ST. JOHN'S EPISCOPAL CHURCH
PHASE TWO
TAX MAP 24, BLOCK 11, PARCEL 535
LIBER 1822 FOLIO 570
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
BA 87-48 PREVIOUS FILE NO. SDP 73-35 BA 90-55E

DATE: 4/92
OWNER/DEVELOPER: ST. JOHN'S EPISCOPAL CHURCH
9120 FREDERICK RD.
ELLICOTT CITY, MD. 21043
Phone: 465-9531



PHASE ONE:
BUILDING ADDITION TO ST. JOHN'S CHURCH
NOT PART OF THIS SUBMISSION/SEE SDP 92-11

PHASE TWO:
PARISH LIFE CENTER

- General Notes:**
- Total area of property: 12.87 Ac.
A. Total area of limit of submission (Phase Two): 1.28 Ac.
 - Present zoning of property: R-20 (Residential: Single) subject to Board of Appeals Case Nos. BA 90-55E and BA 87-48E.
 - Deed reference: Liber 1822, Folio 570.
 - Public water and public sewerage is available for the property. (Contract No. 10W and Contract No. 31-5 Patapasco Drainage Area.
 - Property is located on Tax Map 24 Block 11 part of Parcel 535.
 - This site development plan is subject to previous submission SDP 73-35, SDP 92-11 and Board of Appeals Case Nos. BA 90-55E and BA 87-48E. Also see Howard County Historic Sites Inventory (HO-26).
 - Site Analysis:
 - Intended use of structures: Religious Activities (Phase Two: Parish Life Center).
 - Total area of building (Phase Two): 1982 sq. ft. or 0.85 Ac. (4% coverage of limit of submission).
 - Total area of building coverage (total site): 27,332 sq. ft. or 0.63 Ac. (4.9%).
 - Total number of parking spaces required (Phase Two): 40
 - Proposed Parish Life Center
 - First floor: 1982 sq. ft.
 - Ground floor: 1982 sq. ft.

- Standard spaces: 38
 - Existing: 4 spaces from existing Parish parking
 - Proposed: 34
 - Handicap: 2
 - Green area provided: (Total site) 9.18 Ac. (71.3%)
 - Landscaped Islands:
 - Total area of parking lot (Phase Two): 0.41 Ac.
 - Landscaped Islands provided: 0.06 Ac. (14.6%)
- The presence of wetlands are not indicated within the area tentatively proposed for construction of Phase Two on this site. Section 404 and Section 401 do not apply and the applicable permits are not required for this construction.
 - The contractor shall notify the Department of Public Works/Bureau of Construction Inspection at (301) 792-7272 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.
 - The contractor shall notify the following utilities or agencies at least five (5) days prior to commencement of work shown on these plans:
 - CLP Telephone Company 301-725-9976
 - Howard County Bureau of Utilities 301-311-4500
 - AT&T Cable Location Division 301-393-3553
 - BO&E (Contractor Services) 301-850-4620
 - BO&E (Damage Control) 301-787-9868
 - State Highway Administration 301-531-5533
 - Colonial Pipeline Company 301-795-1399
 - Handicapped facilities shall be constructed in accordance with the "Design of Barrier Free Facilities" and the "Maryland Building Code for the Handicapped and Aged".

- The existing utilities shown hereon are located from field surveys and construction drawings of record. The approximate location of existing utilities are shown for the contractor's information and convenience. The contractor shall locate existing utilities to his own satisfaction and well in advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and maintain uninterrupted service.
- Any damage to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be corrected at the contractor's expense.
- All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications, if applicable.
- 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 the face of curb unless otherwise noted.
- Horizontal and vertical datum are related to the Maryland State Plane Coordinate System as projected from Howard County Control Stations.
- Stormwater Management for this development will be provided by a joint use extended detention/detention control facility (also see Frederick Crossing SDP 87-120). The stormwater management facility will be privately owned and maintained by the St. John's Episcopal Church and Frederick Crossing.
- See Architectural plans prepared by Stewart-McCreedy Architects for building dimensions and structural details relating to retaining walls and steps.
- The property boundary and topography shown on this plan (sheet 1 of 6 was established by a survey prepared by Charles D. Grace, Engineer and Surveyor, as shown on previously approved Site Development Plan SDP 73-35. Additional topography shown on Sheet 2 of 6 was established by a survey prepared by Land Design Engineering, Inc. dated May, 1991. (Two foot contour interval).
- Geotechnical analysis performed by Hillis-Carnes Engineering Associates, Inc. dated May, 1991 for the St. John's Episcopal Church. The boring designated B-1 was performed under the Frederick Crossing Site Plan (SDP-87-120), for installation of the perforated underground trench system on or about December 3, 1991.

Ex. SWM Facility #1
Existing Conditions: Hydrology from approved SDP 87-120, Frederick Crossing
Proposed Conditions:
DA = 0.33 Ac. RCN = 61 To = 24 hr.
Path: A-B 100' @ 6%
B-C 85' @ 11%
C-D 55' @ 13%

SWM Facility #2
Existing Conditions:
DA = 0.33 Ac. RCN = 61 To = 24 hr.
Path: A-B 100' @ 6%
B-C 85' @ 11%
Proposed Conditions:
DA = 0.50 Ac. RCN = 74 To = 10 hr.
Path: A-B 60' @ 8%
B-C 100' @ 5%

- LEGEND**
- Ex. D.A.
 - Prop. D.A.
 - A---B Ex. To Path
 - A---B Prop. To Path
 - Limit of Submission

SOIL GROUP	SOIL TYPE	SOIL NAME
C	GnB2	Glenville silt loam
B	MIB2	Manor loam
B	MIC2	Manor loam
B	MID2	Manor loam
B	MnD	Manor very stony loam
C	MpB2	Montalto silt loam
B	NeB2	Neshaminy silt loam

- LEGEND**
- Soil Type Boundary
 - Time of Concentration
 - Flow Path
 - Limit of Submission
 - Proposed Paving
 - Existing Woods To Remain Undisturbed

INDEX OF SHEETS

SHEET	TITLE
1	LOCATION AND SWM DRAINAGE AREA MAP
2	SITE DEVELOPMENT PLAN
3	SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
4	LANDSCAPE PLAN
5	SEDIMENT CONTROL AND SITE DETAILS
6	SWM PROFILES AND DETAILS

IN THE MATTER OF ST. JOHN'S EPISCOPAL CHURCH
Petitioner: _____
BEFORE THE HOWARD COUNTY BOARD OF APPEALS
Case No. BA 90-55E

Based upon the foregoing Findings of Fact and Conclusions of Law, it is this 12th day of March, 1991, by the Howard County Board of Appeals, ORDERED:

That the petition of St. John's Episcopal Church for a special exception to expand an existing religious facility be, and the same is hereby GRANTED, subject to the following conditions:

- The Petitioner shall comply with all applicable Federal, State and County laws and regulations.
- The location and layout of all proposed parking areas shall be designed to meet the minimum standards for parking and access lanes.
- The Petitioner shall insure that no headlights from automobiles in driveways or parking areas shall shine or reflect onto adjacent residential properties as well as residential properties across Frederick Road, by planting where necessary, sufficient evergreen vegetative screening.
- Outdoor lighting shall be directed inward so as not to shine or reflect onto adjacent properties, and shall be the minimum necessary for directional and security lighting, and may not exceed three (3) feet in height.
- The Petitioner shall comply with testimony presented and construct the proposed addition to the church building and the proposed parish life center with state roots.

NOTE: The landscape planting affected by revision no. 1 shall be replaced using similar plant type and in the same general area.

1 Rev. SWM Facility #2 to a Pocket Pond By F.C.C., Inc. 10-3-07
REVISIONS

ADDRESS CHART

PARCEL No.	STREET ADDRESS
P/O 535	FREDERICK ROAD

PROPERTY NAME:	SECT./AREA	PARCEL
ST. JOHN'S EPISCOPAL CHURCH		P/O 535

DEED REF.	BLOCK NO.	ZONE	TAX MAP NO.	ELEC. DIST.	CENSUS TR.
1822/570	11	R-20	24	2nd	6023.01

WATER CODE:	SEWER CODE:
FOT	1402800

APPROVED: DEPARTMENT OF PUBLIC WORKS FOR STORM DRAINAGE SYSTEMS AND ROADS.
James M. Brown 8/24/92
DIRECTOR, PUBLIC WORKS
APPROVED: DEPARTMENT OF PLANNING AND ZONING
James M. Brown 8/23/92
CHIEF, BUREAU OF ENGINEERING
APPROVED: DEPARTMENT OF PLANNING AND ZONING
James M. Brown 8/23/92
PLANNING DIRECTOR
James M. Brown 8/23/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER AND SEWERAGE SYSTEMS.
James M. Brown 8/26/92
HEALTH OFFICER

LAND DESIGN ENGINEERING, INC.
10620 Guilford Road • Suite 210 • Jessup, Maryland 20794 • (301) 804-6264 • (301) 810-0034

DESIGNED	LOCATION/SWM DRAINAGE AREA MAP	SCALE
	PARISH LIFE CENTER	1"=50'

DRAWN	ST. JOHN'S EPISCOPAL CHURCH	DRAWING
	PHASE TWO	1 OF 6

CHECKED	TAX MAP 24 BLOCK 11 P/O PARCEL 535	JOB NO.
	LIBER 1822 FOLIO 570	90-202-B

DATE	OWNER/DEVELOPER	FILE NO.
4/92	ST. JOHN'S EPISCOPAL CHURCH 5120 FREDERICK RD. ELICOTT CITY, MD 21043 PHONE: 465-9531	