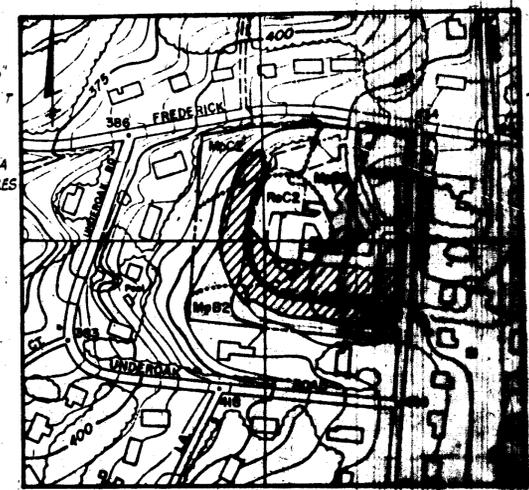




NO.	DATE	REVISIONS
1	10-21-94	SPOT ELEV., HANDICAPPED PARKING, AND DRAINS
2	5-8-95	BLDG. RESTRICTION LINE REVISION

**LEGEND**

- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SILT FENCE
- SEDIMENT TRAP
- DEWATERING DEVICE



ALL 50 L.S. ARE GROUP B  
 STORMWATER MNGMT DRAINAGE AREA 2.042 ACRES  
 EX STNG DRAINAGE AREA (PROPERTY LINE) 5.6 ACRES

**APPROVED**  
 DIVISION OF COMMUNITY PLANNING & LAND DEVELOPMENT  
 HOWARD COUNTY, MARYLAND  
 DATE: 5-1-99

**SEDIMENT TRAP**  
 HOWARD COUNTY MD

DRAINAGE AREA	26 A.S.
STORAGE REQUIRED	4680 cu ft
STORAGE PROVIDED	14,800 cu ft
STORAGE DEPTH	3.7 ft
EMBANKMENT HEIGHT	424.0
CLEANOUT ELEVATION	424.0
BOTTOM ELEVATION	415.0
CREST ELEVATION	423.7

I, the undersigned, certify that this plan for soil conservation practices and sediment control measures is a practical and workable plan based on my personal knowledge of the conditions and that it was prepared in accordance with the requirements of the HOWARD SOIL CONSERVATION DISTRICT. I also authorize periodic on-site inspection by the HOWARD SOIL CONSERVATION DISTRICT.

*Richard H. Cowell* 2-5-99

I certify that this plan for soil conservation practices and sediment control measures is a practical and workable plan based on my personal knowledge of the conditions and that it was prepared in accordance with the requirements of the HOWARD SOIL CONSERVATION DISTRICT. I also authorize periodic on-site inspection by the HOWARD SOIL CONSERVATION DISTRICT.

*James M. Helms* 2/2/99

I certify that this plan for soil conservation practices and sediment control measures is a practical and workable plan based on my personal knowledge of the conditions and that it was prepared in accordance with the requirements of the HOWARD SOIL CONSERVATION DISTRICT. I also authorize periodic on-site inspection by the HOWARD SOIL CONSERVATION DISTRICT.

*James M. Helms* 2/2/99

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS  
 HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 2/2/99

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 DIRECTOR: *[Signature]* DATE: 2/2/99

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: *[Signature]* DATE: 2/2/99

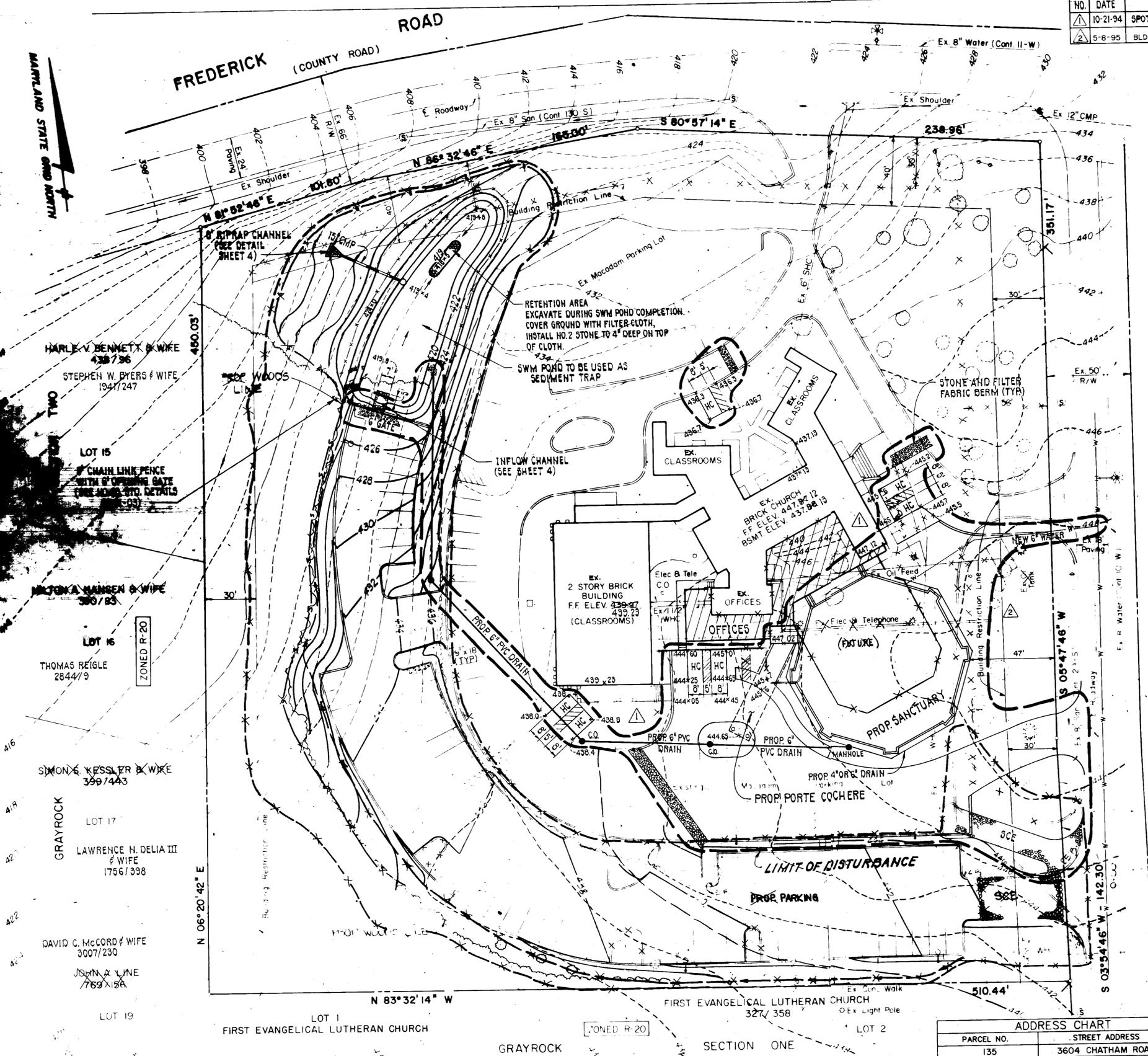
APPROVED: CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT  
 DIRECTOR: *[Signature]* DATE: 2/2/99

Reviewed for Howard Soil Conservation District and meets technical requirements.  
 U.S. Soil Conservation Service: *[Signature]* DATE: 2/2/99

CHATHAM ROAD (COUNTY ROAD)

GRAY ROCK ROAD

CHATHAM ROAD (COUNTY ROAD)



**ADDRESS CHART**

PARCEL NO.	STREET ADDRESS	WATER CODE	SEWER CODE
135	3604 CHATHAM ROAD	F07	5193100

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS AND ARCHITECTS  
 8110 W. BELT ROAD, SUITE 100  
 BETHESDA, MARYLAND 20814

**OWNER / APPLICANT:**  
 EDWARD ZIEGLER, CHAIRMAN  
 BUILDING COMMITTEE  
 FIRST EVANGELICAL LUTHERAN CHURCH  
 3604 CHATHAM ROAD  
 ELLICOTT CITY, MD 21043

**DEVELOPER'S CERTIFICATION**  
 I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Edward J. Ziegler* 2-5-99  
 DATE

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

*Richard H. Cowell* 2-5-99  
 DATE

**FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY**  
 SEDIMENT & EROSION CONTROL PLAN  
 REVISIONS TO SDP-87-189  
 2ND ELECTION DISTRICT HOWARD COUNTY, MD  
 TAX MAP NO. 24 PARCEL 135  
 DATE: FEBRUARY 9, 1989 SCALE 1" = 30'



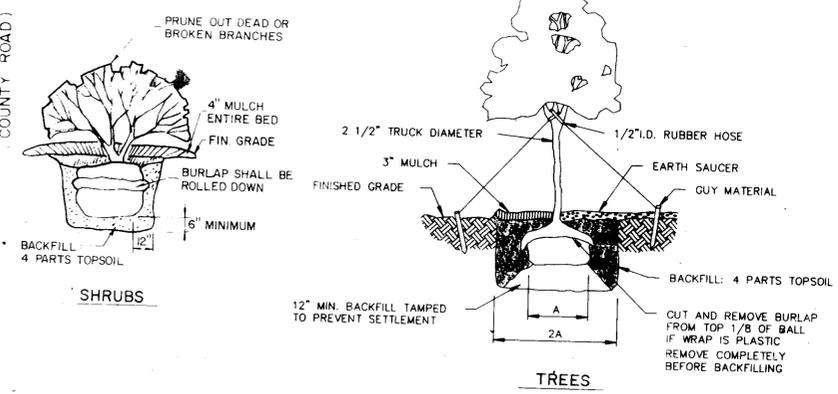
**FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY**  
 SEDIMENT & EROSION CONTROL PLAN  
 REVISIONS TO SDP-87-189  
 2ND ELECTION DISTRICT HOWARD COUNTY, MD  
 TAX MAP NO. 24 PARCEL 135  
 DATE: FEBRUARY 9, 1989 SCALE 1" = 30'

FREDERICK ROAD (COUNTY ROAD)

PLANTING SCHEDULE

TREES QUAN	SYM	NAME	SIZE	SPACING
25	⊙	<i>Tsuga canadensis</i> Canadian Hemlock	5-6 8-8	As Shown
1	⊕	<i>Ilex opaca</i> American Holly	6-7 8-8	As Shown
2	⊕	<i>Quercus pauciflora</i> Pin Oak	2-2 1/2 8-8	As Shown
7	⊕	<i>Tilia cordata</i> Greenhouse Little Leaf Linden	2-2 1/2 8-8	As Shown
<b>SHRUBS</b>				
24	⊗	<i>Cotoneaster dammeri</i> Bearberry cotoneaster	12-15' Cont	6' %
6	⊕	<i>Ilex crenata</i> Japanese Holly	21-24" Cont	As Shown
2	⊗	<i>Rhododendron obtusum</i> "Hershey Red" Azalea "Delaware Valley" Azalea	18-21" Cont	As Shown

CHATHAM ROAD



PLANTING DETAILS NOT TO SCALE

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

COUNTY HEALTH OFFICER: [Signature] DATE: 7-19-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DIRECTOR: [Signature] DATE: 7-24-89

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 7/24/89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC WORKS  
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

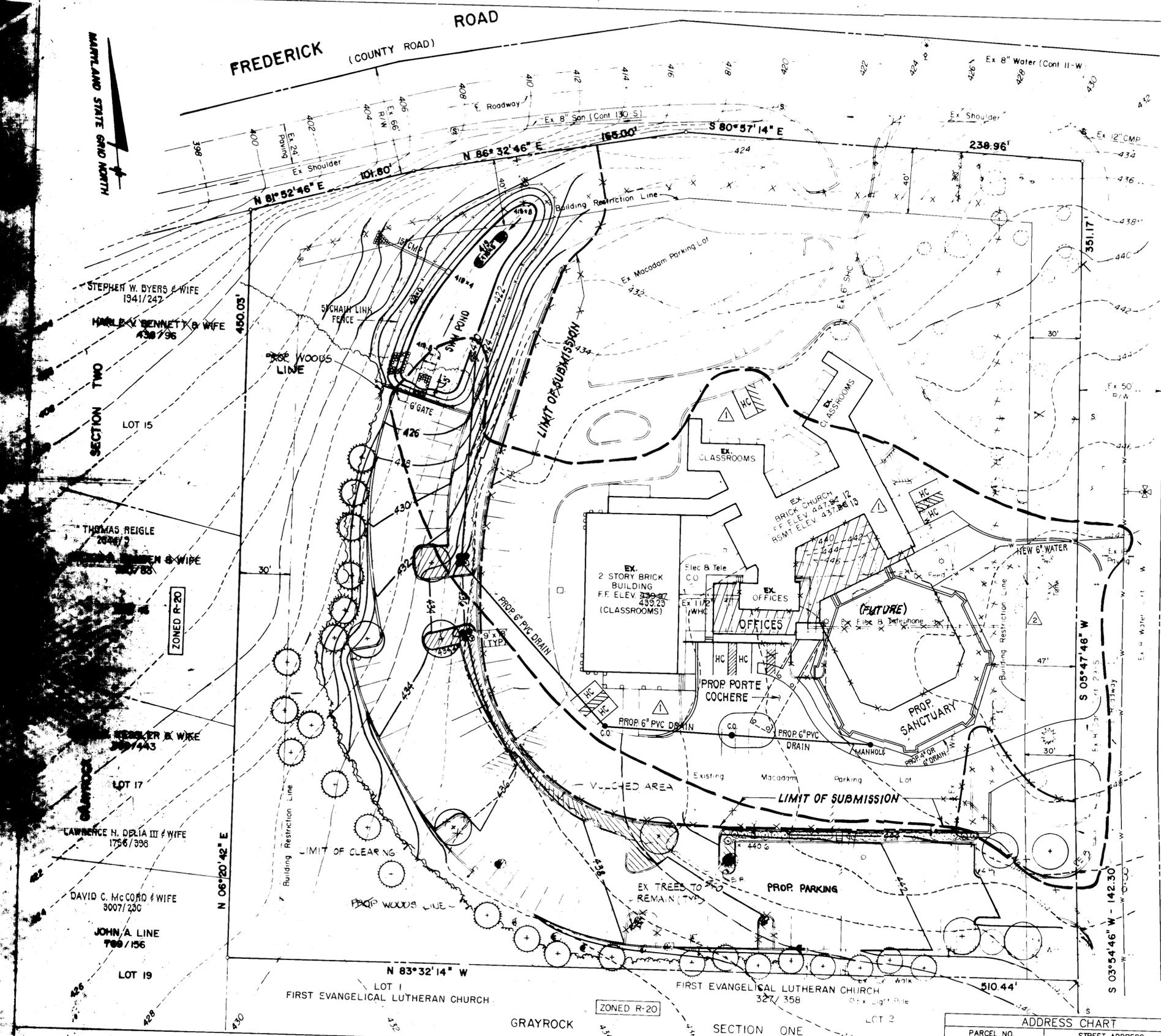
DIRECTOR: [Signature] DATE: 7-18-89

CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 7-18-89

5-8-95	BLDG RESTRICTION LINE REVISION
10-21-94	SPOT ELEV, HANDICAPPED PARKING, AND DRAINS
NO. DATE REVISIONS	
SUBDIVISION NAME SECT/AREA LOT/PARCEL #	
PLAT # ORL/F BLOCK ZONE TAX ZONE ELECT. DIST. CENSUS	
L 229, F 332 R-20 24 2	
WATER CODE SEWER CODE	
F07 5752700	

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
135	3604 CHATHAM ROAD



**PURDUM & JESCHKE**  
CONSULTING ENGINEERS AND LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 (301)837-0194

OWNER / APPLICANT:  
EDWARD ZIEGLER, CHAIRMAN  
BUILDING COMMITTEE  
FIRST EVANGELICAL LUTHERAN CHURCH  
3604 CHATHAM ROAD  
ELLCOTT CITY, MD 21043

DEVELOPER'S CERTIFICATION  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

Edward J. Ziegler 2-8-89

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

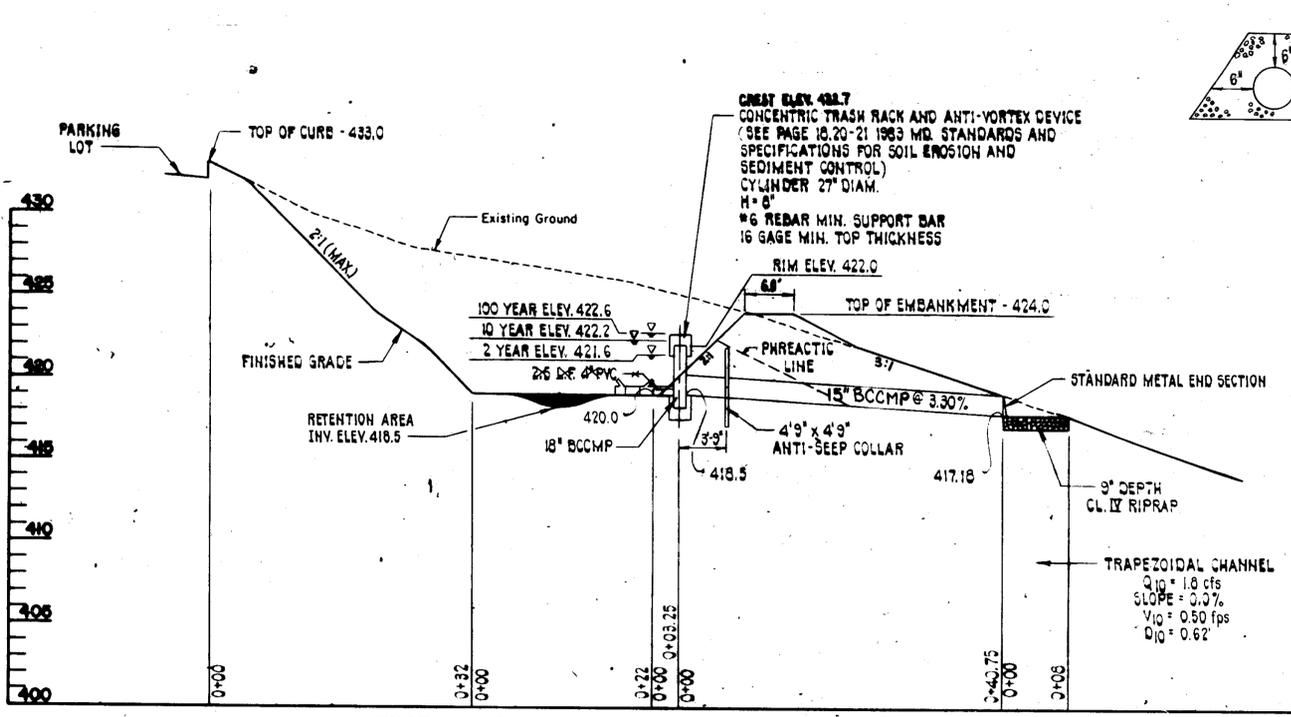
Richard H. Smith 2-8-89

FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY

LANDSCAPING PLAN REVISIONS TO SDP-87-183

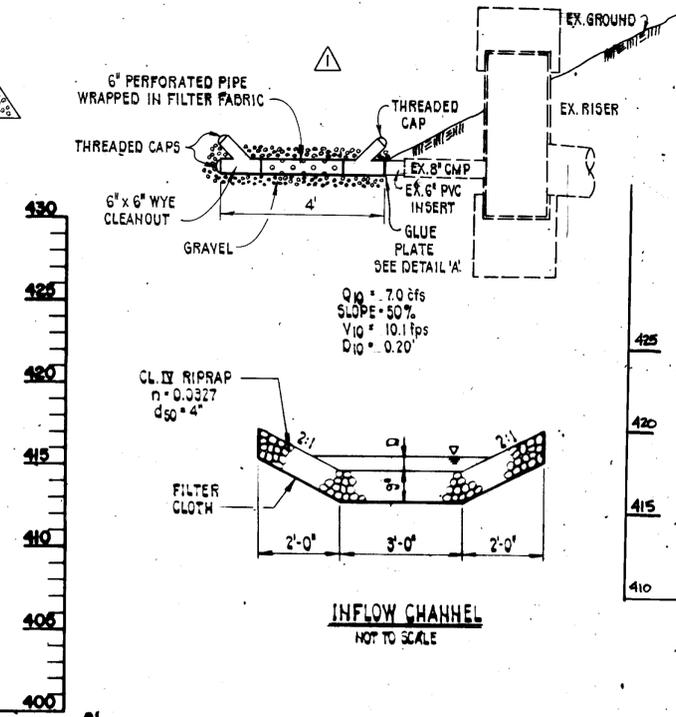
2ND ELECTION DISTRICT HOWARD COUNTY, MD  
TAX MAP NO. 24 PARCEL 135  
DATE: FEBRUARY 9, 1989 SCALE: 1" = 3'

SHEET 3 OF 6  
DES: PS  
DRAWN: REC  
CHK: RHB

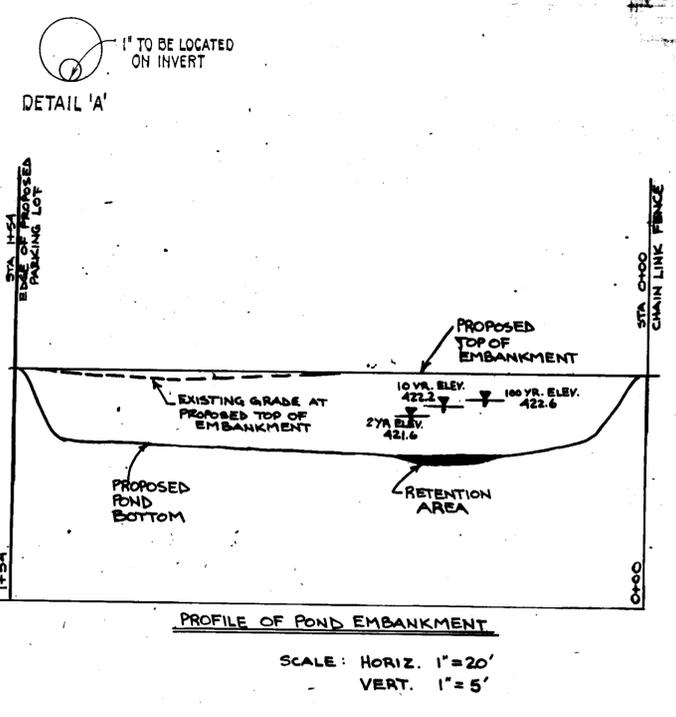


PROFILE THRU STORMWATER MANAGEMENT AREA

SCALE: HORIZ. 1" = 10'  
VERT. 1" = 5'

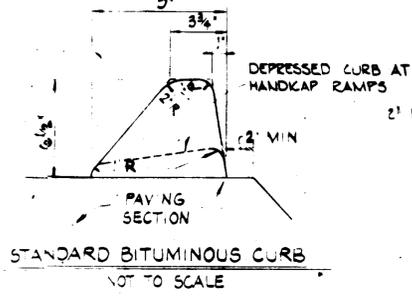


INFLOW CHANNEL  
NOT TO SCALE

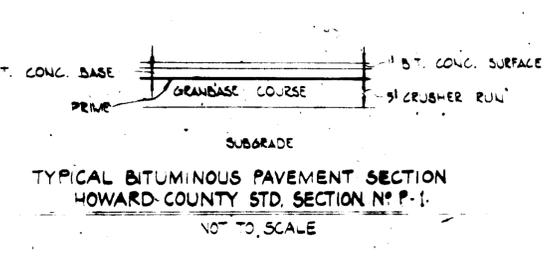


PROFILE OF POND EMBANKMENT

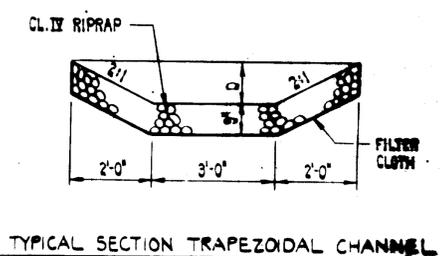
SCALE: HORIZ. 1" = 20'  
VERT. 1" = 5'



STANDARD BITUMINOUS CURB  
NOT TO SCALE



TYPICAL BITUMINOUS PAVEMENT SECTION  
HOWARD COUNTY STD. SECTION NO. P-1  
NOT TO SCALE



TYPICAL SECTION TRAPEZOIDAL CHANNEL  
NOT TO SCALE

Project: First Lutheran Church of Ellicott City, Maryland  
Boring No. B-1 Elevation            Date JANUARY 20, 1987  
Location See Plan

Project: First Lutheran Church of Ellicott City, Maryland  
Boring No. B-2 Elevation            Date JANUARY 20, 1987  
Location See Plan

Depth From To	U.S.D.A. Textural Classification	Elevation	In-Place Moisture Content
Surface 2.5	Clay Loam (Fill)		
2.5 5.0	Reddish Brown Clay Loam		26.22
5.0 10.0	Brown Clay Loam with Rock Fragments		20.72
10.0 15.0	Brown Clay Loam - Sandy Clay Loam		13.52
Very Hard Drilling below 15 feet			
Note: Hole Collapsed at 7'6" upon withdrawal of auger			

Depth From To	U.S.D.A. Textural Classification	Elevation	In-Place Moisture Content
Surface 3.0	Clay Loam (Fill)		
3.0 7.5	Brown Clay Loam		22.72
7.5 10.0	Light Brown Clay Loam		18.52
10.0 15.0	Greenish Gray Clay Loam		13.62
Very Hard Drilling below 10 feet			
Note: Hole Collapsed at 8 feet upon withdrawal of auger			

BORING INFORMATION SHOWN WAS PROVIDED BY MR. E.J. ZEIGLER DATED ON JANUARY 27, 1987. THE PURPOSE OF THESE BORINGS ARE TO AID THE ENGINEER IN THE DESIGN OF THE STORMWATER MANAGEMENT FACILITY. IF THE CONTRACTOR USES THIS INFORMATION TO MAKE JUDGEMENTS ON THE EXCAVATED MATERIALS HE DOES SO AT HIS OWN RISK.

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 Natural Resources 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."  
*Edward J. Zeigler* 2-8-89  
Edward Zeigler, Engineer  
Building Committee

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."  
*Richard H. Berch* 2-8-89  
Richard H. Berch, P.E., Reg. No. 10959 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. Helms* 2-3-89  
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.  
*Stephen E. Helms* 2-3-89  
Howard Soil Conservation District Date

NO.	DATE	REVISIONS
10-21-84		SPOT ELEV., HANDICAPPED PARKING, AND DRAINS
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT <i>[Signature]</i> 2-15-89 DATE		
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING <i>[Signature]</i> 2-24-89 DATE		
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>[Signature]</i> 2/24/89 DATE		
APPROVED: CHIEF BUREAU OF ENGINEERING <i>[Signature]</i> 2-13-89 DATE		
Reviewed for Howard Soil Conservation District and meets technical requirements. <i>[Signature]</i> 2-2-89 U.S. Soil Conservation Service Date		

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
*[Signature]* 2-3-89  
Howard Soil Conservation District Date

PARCEL NO.	STREET ADDRESS	WATER CODE	SEWER CODE
135	3604 CHATHAM ROAD	F07	5753100

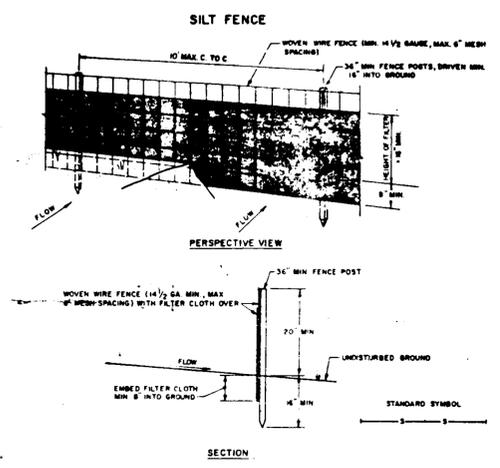
**PURDUM & JESCHKE**  
CONSULTING ENGINEERS AND  
LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 (301)837-0194

OWNER / APPLICANT  
**EDWARD ZIEGLER, CHAIRMAN**  
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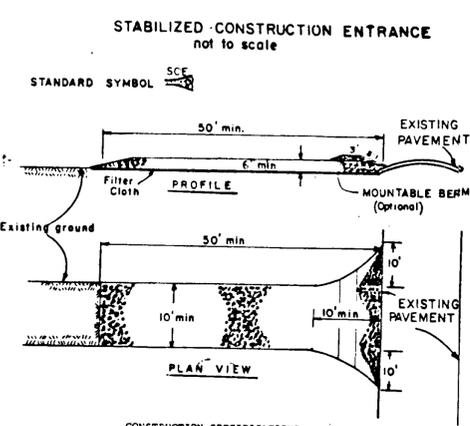
DEVELOPER'S CERTIFICATION  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*Edward J. Zeigler* 2-8-89  
DATE

ENGINEER'S CERTIFICATION  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*Richard H. Berch* 2-8-89  
DATE

**FIRST EVANGELICAL LUTHERAN CHURCH**  
OF ELLICOTT CITY  
REVISIONS TO SDP-87-183  
STORMWATER MANAGEMENT  
DETAILS  
2ND ELECTION DISTRICT  
TAX MAP NO. 24  
DATE: FEBRUARY 9, 1989  
HOWARD COUNTY, MD.  
PARCEL 135  
SCALE AS SHOWN  
SHEET 4 OF 5  
DES: GAP, JK  
DRAWN: RED, REC  
CHK: RHB



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- MOVIE WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO MOVIE WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "MUDS" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD  
 FENCE: MOVIE WIRE, 1/4" GA. 6" MAX. MESH OPENING  
 FILTER CLOTH: FILTER X, MINIMUM 100% STABILIZATION OR APPROVED EQUAL  
 PREFABRICATED UNIT: GEOTEX, ENVIRONMENT, OR APPROVED EQUAL



- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable beam with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seedbed Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** In lieu of soil test recommendations, use one of the following schedule:

- Preferred -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
- Acceptable -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Narrow or disc into upper three inches of soil.

**Seeding:** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue and 2 lbs per acre (.05 lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February 28, protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

**Seedbed Preparation:** Loosen upper three inches of soil by raking, disking or other acceptable means before seeding.

**Soil Amendments:** Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

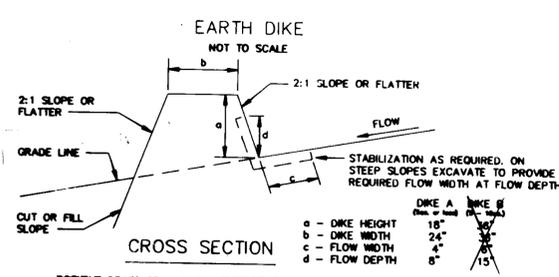
**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

- SEDIMENT CONTROL NOTES**
- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
  - All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 days as to all other disturbed or graded areas on the project site.
  - All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
  - All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
  - All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
  - Site Analysis:
 

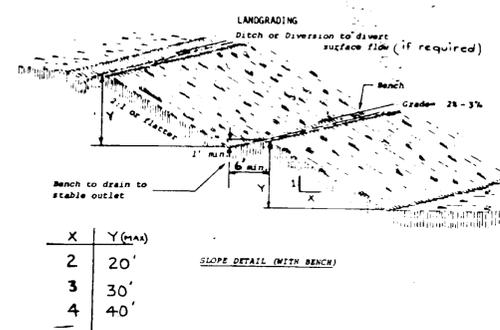
Total Area of Site	5.647 Acres
Area Disturbed	1.40 Acres
Area to be roofed or paved	0.86 Acres
Area to be vegetatively stabilized	0.56 Acres
Total Cut	3370 Cu. yds
Total Fill	1565 Cu. yds
Offsite waste/borrow area location	UNDETERMINED
  - Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
  - Additional sediment controls must be provided, if deemed necessary by the Howard County DPW sediment control inspector.
  - On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.



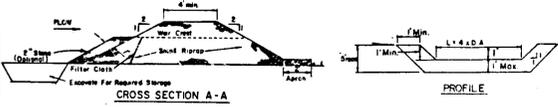
- CONSTRUCTION SPECIFICATION**
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
  - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
  - TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
  - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
  - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION, RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
  - STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATION FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

TYPE OF TREATMENT	CHANNEL GRADE	FLOW CHANNEL STABILIZATION	
		DIKE A	DIKE B
1	.5 - 3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1 - 5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSON, SOD; 2" STONE
3	5.1 - 8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIPRAP 4 - 8"
4	8.1 - 20%	LINED RIPRAP 4 - 8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLE CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.  
 B. RIPRAP TO BE 4 - 8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL.  
 C. APPROVED EQUIVALENT CAN BE SUBSTITUTED FOR ANY OF THE MATERIALS.



- CONSTRUCTION SPECIFICATIONS FOR ST-2**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the upgrade side on the small riprap embedded filter cloth in the traps.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- STONE OUTLET SEDIMENT TRAP**
- OPTION: A one foot layer of 2" stone may be placed on the upstream side of the riprap in place of the embedded filter cloth.
- CONSTRUCTION SPECIFICATIONS FOR ST-2**
- All graded or disturbed areas including 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 topsoiled 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. Fill intended to support buildings, structures and conduits, etc., shall be compacted in accordance with local requirements or code.
  - All fill 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, logs, stumps, building debris and other objectionable materials that would interfere with or prevent construction of satisfactory fill.
  - 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 benches shall be kept free of sediment during all phases of development.
  - Slope of springs encountered during construction shall be handled in accordance with the Standard and Specifications for Subsurface Drain and other approved method.
  - All graded areas shall be permanently stabilized immediately following finished grading.
  - Stockpiles, borrow areas and spoil areas shall be shown on the plans and shall be subject to the provisions of this Standard and Specifications.



- CONSTRUCTION SPECIFICATIONS FOR ST-2**
- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
  - All cut and fill slopes shall be 2:1 or flatter.
  - The stone used in the outlet shall be small riprap 4"-8" along with a 1' thickness of 2" aggregate placed on the upgrade side on the small riprap embedded filter cloth in the traps.
  - Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap.
  - The structure shall be inspected after each rain and repairs made as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.

**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 Natural Resources 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, and also authorize periodic on-site inspections by the Howard Soil Conservation District."

Edward J. Zeigler, Chairman  
 Building Committee  
 Date: 2-8-89

**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."

Richard H. Berich, P.E.  
 Richard H. Berich, P.E. Reg. No. 10959  
 Date: 2-8-89

**ADDRESS CHART**

PARCEL NO.	STREET ADDRESS

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
FIRST EVANGELICAL LUTHERAN CHURCH		PARCEL 135
PLAT # ORL/E	BLOCK	ZONE
L. 229, F. 332	10	R-20
		TAX ZONE
		24
		ELECT. DIST.
		2
		CENSUS
		6023.01
		WATER CODE
		F07
		SEWER CODE
		5753700

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.

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.

Howard Soil Conservation District Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEM HOWARD COUNTY HEALTH DEPARTMENT

DATE: 2-8-89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

DATE: 2-24-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC WORKS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE: 2-13-89

Reviewed for Howard Soil Conservation District and meets technical requirements.

Howard Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Howard Soil Conservation District Date

**PURDUM & JESCHKE**  
 CONSULTING ENGINEERS AND LAND SURVEYORS  
 1839 North Calvert Street  
 Baltimore, Maryland 21202 (301) 837-0184

**OWNER / APPLICANT**  
 EDWARD ZIEGLER, CHAIRMAN  
 BUILDING COMMITTEE  
 FIRST EVANGELICAL LUTHERAN CHURCH  
 3804 CHATHAM ROAD  
 ELLICOTT CITY, MD 21043

**DEVELOPER'S CERTIFICATION**

I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

Edward J. Zeigler, Chairman  
 Building Committee  
 Date: 2-8-89

**ENGINEER'S CERTIFICATION**

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

Richard H. Berich, P.E.  
 Richard H. Berich, P.E. Reg. No. 10959  
 Date: 2-8-89

**REVISIONS TO SDP-87-183**

FIRST EVANGELICAL LUTHERAN CHURCH OF ELLICOTT CITY  
 SEDIMENT & EROSION CONTROL DETAILS

2ND ELECTION DISTRICT TAX MAP NO. 24  
 DATE: FEBRUARY 9, 1989

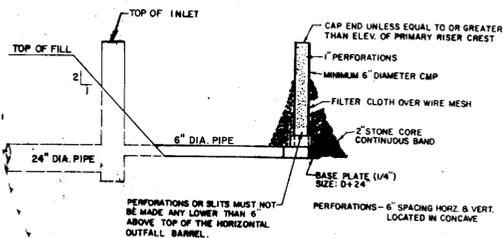
HOWARD COUNTY, MD  
 PARCEL 135  
 NOT TO SCALE

SHEET 5 OF 6

DES: PS  
 DRAWN: CAD  
 CHK: RMB

SDP-87-165

**OPTIONAL SEDIMENT TRAP DEWATERING DEVICE-1 WITH 6" PERFORATED RISER**



**CONSTRUCTION SPECIFICATIONS FOR ST-11**

- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
- All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
- Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
- Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
- Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
- Stone used in the outlet channel shall be four (4) to eight (8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
- Embankment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain and repaired as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
- Drainage area for this practice is limited to 15 acres or less.

**CONSTRUCTION SEQUENCE FOR PARKING AREA**

- |   |         |
|---|---------|
| 1. OBTAIN GRADING PERMIT.   | 2 WEEKS |
| 2. CLEAR AND GRUB FOR THE INSTALLATION OF SEDIMENT TRAP AND PERIMETER CONTROLS.   | 3 DAYS  |
| 3. INSTALL SILT FENCE, BARTH DIKE & CONSTR. ENTRANCE  | 2 DAYS  |
| 4. EXCAVATE SEDIMENT TRAP TO 30' x 44' SIZE AND CONSTRUCT SEDIMENT TRAP. EXCAVATE TO BOTTOM ELEVATION 420'.   | 2 WEEKS |
| 5. CONSTRUCT 1-1. INSTALL DEWATERING DEVICE AND RIPRAP APRON. ENLARGE SEDIMENT TRAP TO 44' x 34'. ELIMINATE STONE OUTLET.                                   | 2 WEEKS |
| 6. BEGIN GRADING OF PARKING AREA & SUBGRADE.  | 3 WEEKS |
| 7. CONSTRUCT CURB & GUTTER AND INSTALL NON POROUS PAVEMENT (P-1).   | 2 WEEKS |
| 8. STABILIZE ALL DISTURBED AREAS - CONTRACTOR MAY BEGIN LANDSCAPING.  | 1 WEEK  |
| 9. EXCAVATE STORMWATER MANAGEMENT DETENTION AREA - REMOVE THE DEWATERING DEVICE   | 2 DAYS  |
| 10. COMPLETE THE STORMWATER MANAGEMENT FACILITY. EXCAVATE TO 419' DEPTH AS PER PLAN, INSTALL FILTER CLOTH COVERED BY NO. 2 STONE IN RETENTION AREA OF POND. | 2 WEEKS |
| 11. COMPLETE CURB & GUTTER INSTALLATION   | 1 WEEK  |
| 12. REMOVE REMAINING SEDIMENT CONTROL DEVICES (AS APPROVED BY INSPECTOR) FINE GRADE AND STABILIZE. COMPLETE LANDSCAPING.                                    | 1 WEEK  |

**POROUS ASPHALT PAVEMENT CONSTRUCTION SPECIFICATION**

**Subgrade Preparation**

- Alter and refine the grades as necessary to bring subgrade to required grades and sections as shown in the drawings.
- The type of equipment used in subgrade preparation construction shall not cause undue subgrade compaction. (Use tracked equipment or oversized rubber tire equipment - DO NOT use standard rubber tired equipment.) Traffic over subgrade shall be kept at a minimum. Where fill is required, it shall be compacted to a density equal to the undisturbed subgrade, and inherent soft spots corrected.

**Aggregate Base Course**

- All stone used shall be clean, washed, crushed stone meeting MSHA Specifications.
- Aggregate shall be of two sizes: the reservoir base course shall be to a depth as noted on drawings of aggregate (maximum of 2", minimum of 1"), and a 2-inch deep top course of 1/2" aggregate (maximum of 5/8", minimum 3/8").
- Aggregate base course shall be laid over a dry subgrade covered with engineering filter fabric to a depth shown in drawings, in lifts to lay naturally compacted. The stone base course shall be compacted lightly. Keep the base course clean from debris, and sediment.

**Porous Asphalt Surface Course**

- The surface course shall be laid directly over the 1/2" aggregate base course and shall be laid in one lift.
- The laying temperature shall be between 230° and 260°, with minimum air temperature of 50°F, to make sure that the surface does not cool prior to compaction.
- Compaction of surface course shall be done while the surface is cool enough to resist a 10-ton roller. One or two passes by the roller is all that is required for proper compaction. More rolling could cause a reduction in the surface course porosity.
- Mixing plant shall certify the aggregate mix and abrasion loss factor and the asphalt content in the mix. The asphaltic mix shall be tested for its resistance to stripping by water using ASTM D 1664. If the estimated coating area is not above 95 percent, anti-stripping agents shall be added to the asphalt.

**Protection**

After final rolling, no vehicular traffic of any kind shall be permitted on the pavement until cooling and hardening has taken place, and in no case less than 6 hours (preferably a day or two).

**Workmanship**

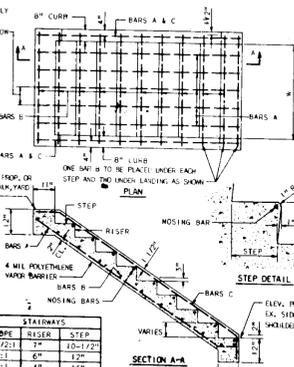
- Work shall be done expertly throughout and without staining or damage to other permanent work.
- Make transition between existing and new paving work neat and flush.
- Finished paving shall be even, without pockets, and graded to elevations shown.
- Iron smoothly to grade, all minor surface projections and edges adjoining other materials.

**NOTES:**

- CONCRETE: MIX NO. 2
- CHAMBERS: 5/8" x 5/8"
- EXPOSED SURFACES: CLASS 4 SURFACE FINISH.
- REINFORCING STEEL: #4 WITH A-305 DEFORMATIONS.
- ALL REINFORCING BARS SHALL BE NO. 4 BARS EXCEPT MOSING BARS.
- A, B AND C BARS SHALL BE USED IN THE INSTALLATIONS OF SIX OR MORE STEPS.
- MOSING BARS SHALL BE NO. 2 BARS AND PLACED IN ALL STEPS REGARDLESS OF STAIR LENGTH.
- UNLESS OTHERWISE NOTED, ALL TRENDS SHALL BE FINISHED WITH A LIGHTLY ROOSED SURFACE.
- FOR RAILING DETAILS, SEE "STANDARD RAILING EX. MAIN YARD, ELEV. PROP. OR ETC."
- THE STAIRS SHALL BE PAID FOR ON THE UNIT PRICE BASIS PER CUBIC YARD FOR "MIX NO. 2 CONCRETE FOR MISCELLANEOUS STRUCTURES", COMPLETE IN PLACE OR ON A LUMP SUM BID FOR EACH "STANDARD CONCRETE STAIR", COMPLETE IN PLACE.

NUMBER OF BARS A		NUMBER OF BARS B		NUMBER OF BARS C	
W x H	W x H	W x H	W x H	W x H	W x H
4 x 4	4	5 x 5	5	6 x 6	6
5 x 5	5	6 x 6	6	7 x 7	7
6 x 6	6	7 x 7	7	8 x 8	8
7 x 7	7	8 x 8	8	9 x 9	9
8 x 8	8	9 x 9	9	10 x 10	10
9 x 9	9	10 x 10	10	11 x 11	11
10 x 10	10	11 x 11	11	12 x 12	12

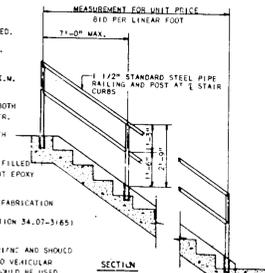
FOR OTHER WIDTHS, THE APPROX. SPACING OF BARS A IN INCHES WILL BE EQUAL TO BARS WITH A MIN. SPACING OF 6 IN. INDICATES WARD OF STEPS EXCLUSIVE OF LANDING.



**STANDARD CONCRETE STAIRS HOWARD COUNTY STANDARD 6701**

**NOTES:**

- UNLESS OTHERWISE NOTED, PAINTED RAILING SHALL BE FURNISHED.
- RAILING AND POSTS TO BE PAINTED SMALL CONFORM TO A.S.T.M. DESIGNATION A-120 STANDARD WEIGHT.
- RAILING AND POSTS TO BE GALVANIZED SMALL CONFORM TO A.S.T.M. DESIGNATION A-441 SEE SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, RAILINGS SHALL BE FURNISHED FOR BOTH SIDES OF STAIRS AND ON ALL STAIRS HAVING A RISER AND OVER.
- RAILING SHALL BE ALL WELDED WITH ITS JOINTS GROUND SMOOTH AND FREE OF BURRS.
- WELDED POSTS SHALL BE SET IN METAL SLEEVES, 6" DEEP AND FILLED WITH HOT POURED LEAD OR HOT POURED SILICON ON AN EQUIVALENT EPOXY COMPOUND.
- GALVANIZED RAILINGS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
- PAINTED RAILINGS SHALL BE PAINTED IN ACCORDANCE WITH SECTION 34.07-31651 OF THE SPECIFICATIONS.
- THIS HANDRAIL IS TO BE USED ONLY AS A PROTECTION FOR PEDESTRIAN AND SHOULD NOT BE PLACED IN ANY LOCATION WHERE IT MIGHT BE SUBJECT TO VEHICULAR IMPACT. FOR VEHICULAR PROTECTION, STANDARD GUARD RAIL SHOULD BE USED.
- THE RAILING SHALL BE PAID FOR AT THE UNIT PRICE BID PER LINEAR FOOT, MEASURED HORIZONTALLY, FOR "STANDARD PIPE RAILING FOR CONCRETE STAIRS" COMPLETE IN PLACE; OR ITS COST SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "STANDARD CONCRETE STAIRS", COMPLETE IN PLACE.



**STANDARD PIPE RAILING FOR CONCRETE STAIRS HOWARD COUNTY STANDARD 6702**

**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."

Richard H. Berich, PE. Reg. No. 10959 Date 2-8-89

**ADDRESS CHART**

PARCEL NO.	STREET ADDRESS

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. Ziegler 2-8-89  
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.

Howard Soil Conservation District Date

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 Natural Resources 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 Howard Soil Conservation District."

Edward J. Ziegler 2-8-89  
Edward Ziegler, Chairman Building Committee Date

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL #
FIRST EVANGELICAL LUTHERAN CHURCH		PARCEL 135
PLAT # OR L/E	BLOCK	ZONE
L. 229, F. 332	10	R-20
		TAX ZONE
		24
		ELECT. DIST.
		2
		CENSUS
		6023.01
		WATER CODE
		F07
		SEWER CODE
		5753700

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

DATE 2-8-89

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DATE 2-8-89

Reviewed for Howard Soil Conservation District and meets technical requirements.

Howard Soil Conservation District Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Howard Soil Conservation District Date

**PURDUM & JESCHKE**  
CONSULTING ENGINEERS AND LAND SURVEYORS  
1029 North Calvert Street  
Baltimore, Maryland 21202 (301)837-0194

**OWNER / APPLICANT:**  
EDWARD ZIEGLER, CHAIRMAN  
BUILDING COMMITTEE  
FIRST EVANGELICAL LUTHERAN CHURCH  
3604 CHATHAM ROAD  
ELLCOTT CITY, MD 21043

**DEVELOPER'S CERTIFICATION**  
I CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN AND ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF ANY SEDIMENT EROSION BEFORE BEGINNING THE PROJECT.

Edward J. Ziegler 2-8-89 DATE

**ENGINEER'S CERTIFICATION**  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE CONDITIONS AND REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Richard H. Berich 2-8-89 DATE

**FIRST EVANGELICAL LUTHERAN CHURCH OF ELLCOTT CITY**

**DETAILS AND SPECIFICATIONS REVISIONS TO SDP-87-183**

2ND ELECTION DISTRICT HOWARD COUNTY, MD. PARCEL 135  
TAX MAP NO. 24 NO SCALE  
DATE: FEBRUARY 9, 1989

DES: PS, MAH  
DRAWN: REC  
CHK: RHB

SHEET 6 OF 6