

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: 5-19-86
 SIGNATURE OF ENGINEER: Stephen L. Rubin
 DATE: 5/19/86

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: Joseph J. ...
 DATE: 6-5-86

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 PLANNING DIRECTOR: Thomas L. ...
 DATE: 6-6-86

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION.
 DEPARTMENT OF PUBLIC WORKS: ...
 DATE: 6-6-86

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 DIRECTOR: ...
 DATE: 5-24-86

CHIEF, BUREAU OF ENGINEERING: ...
 DATE: 5-26-86

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 COUNTY 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 THIRTY DAYS OF COMPLETION.
 SIGNATURE OF ENGINEER: Walter ...
 DATE: 5-15-86

I 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 THIRTY DAYS OF COMPLETION.
 SIGNATURE OF DEVELOPER: David C. ...
 DATE: May 15, 1986

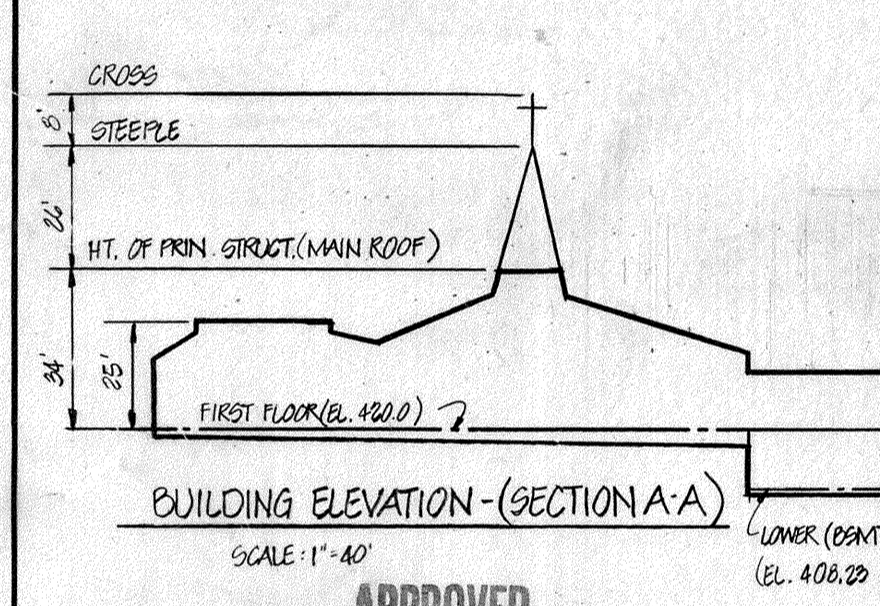
GENERAL NOTES
 1. TAX MAP: 24, BLOCK: 5, PARCEL: 848
 2. DEED REFERENCE: 11271230
 3. EX. ZONING: R-20
 4. PROPOSED SITE USE: RELIGIOUS CENTER
 5. AREA OF SITE: 28.0 AC.; AREA OF SUBMISSION:
 6. SUBJECT TO BA CASE NO. 84-34 E
 7. PUBLIC WATER AND PUBLIC SEWER ARE TO BE USED
 8. PARKING TABULATIONS:
 REQUIRED: 1 PER 3 SEATS; 1000 = 334 SEATS
 PROVIDED: 400 SPACES (PER BA CASE NO. 84-34 E)
 INCLUDING 12 HANDICAPPED (12'x18')
 ALL OTHER SPACES ARE 9'x18'

PHASE A CONSTRUCTION FOR MAX. SEATING OF 500
 PHASE A: 118 SPACES
 PHASE B: 150 SPACES
 TOTAL: 400 SPACES

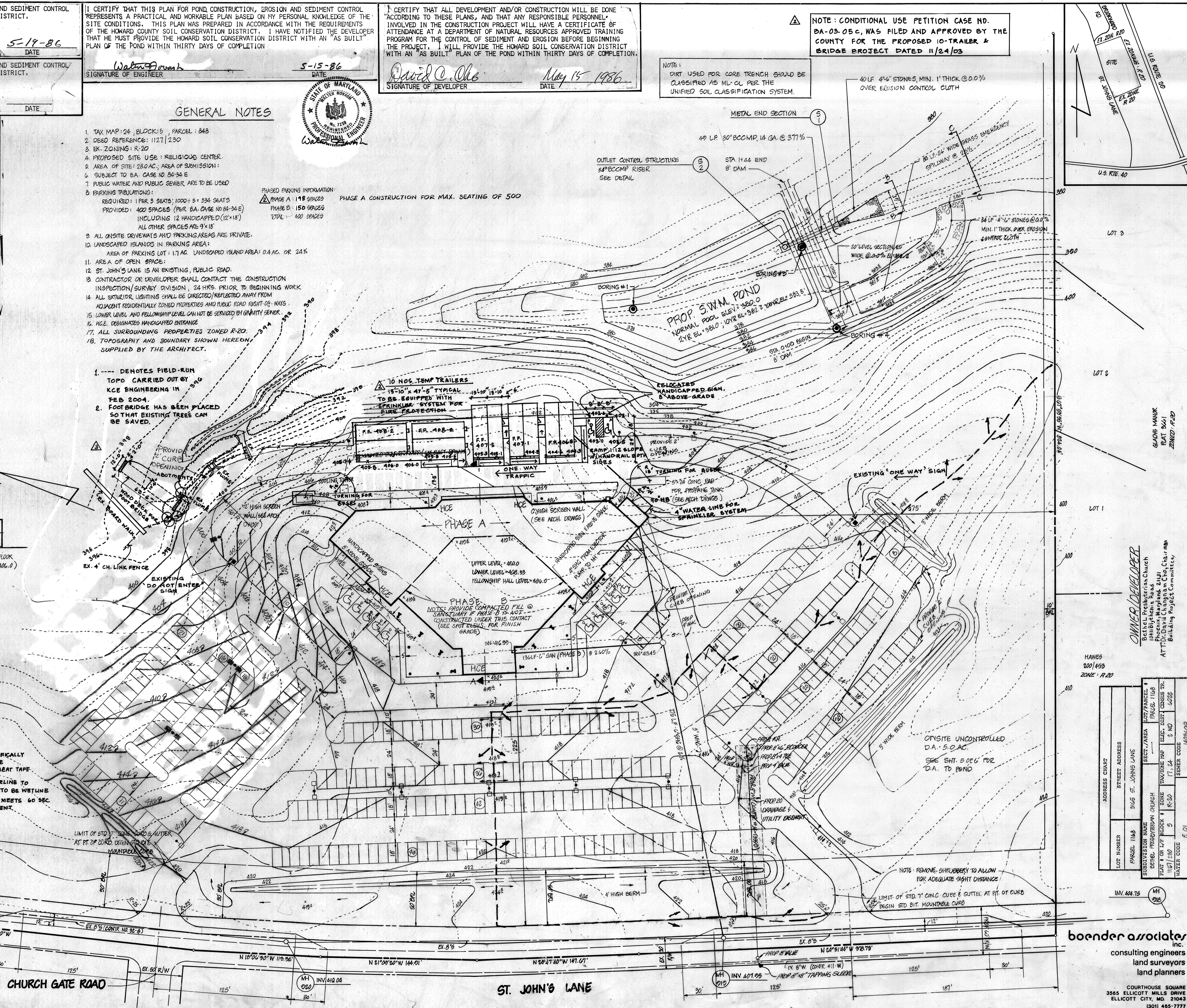
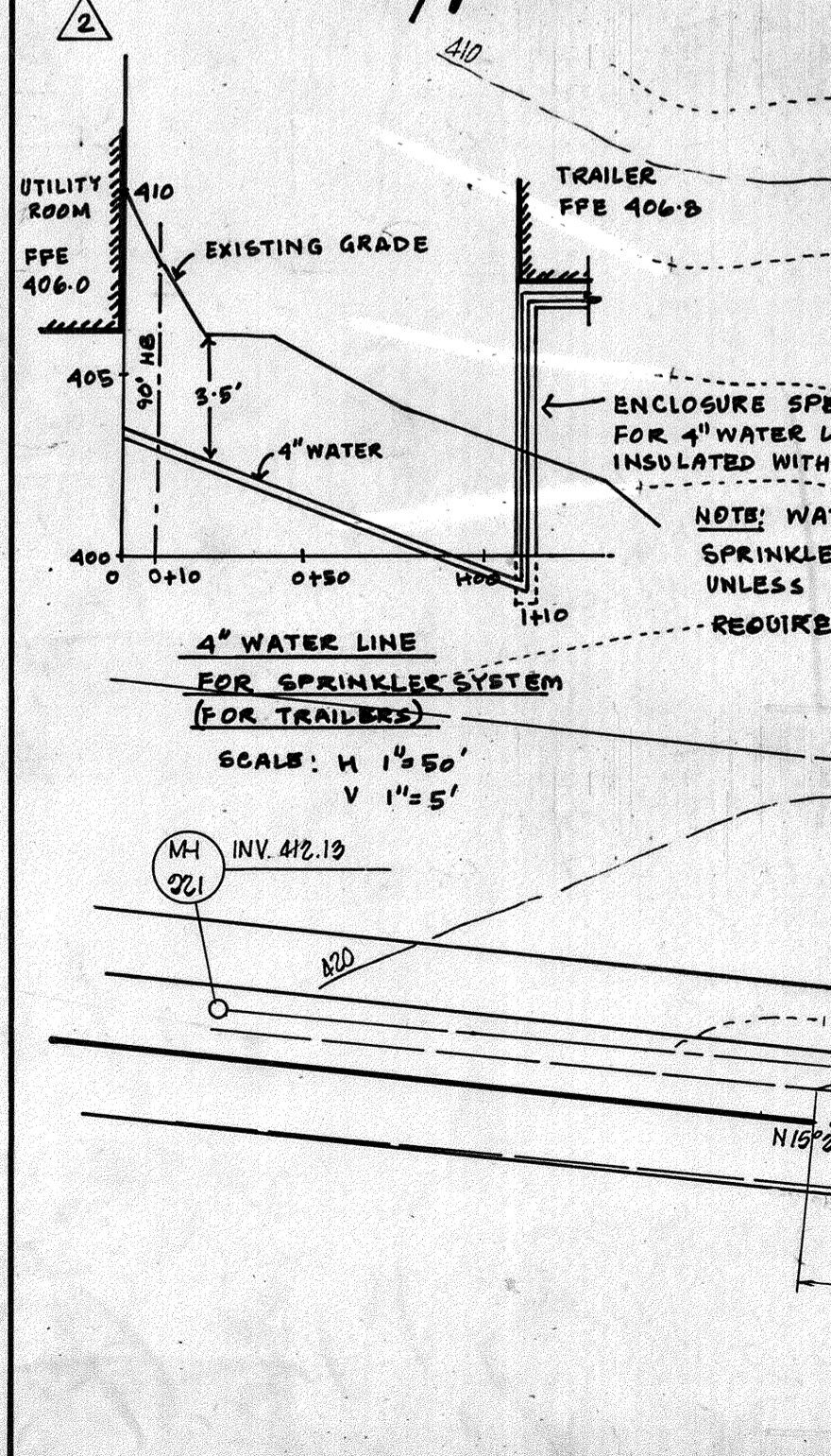
9. ALL ON-SITE DRIVEWAYS AND PARKING AREAS ARE PRIVATE.
 10. LANDSCAPED ISLANDS IN PARKING AREA:
 AREA OF PARKING LOT: 1.7 AC. LANDSCAPED ISLAND AREA: 0.4 AC. OR 24%
 11. AREA OF OPEN SPACE:
 12. ST. JOHN'S LANE IS AN EXISTING, PUBLIC ROAD.
 13. CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION, 24 HRS. PRIOR TO BEGINNING WORK
 14. ALL EXTERIOR LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT RESIDENTIALLY ZONED PROPERTIES AND PUBLIC ROAD RIGHT-OF-WAYS
 15. LOWER LEVEL AND FELLOWSHIP LEVEL CAN NOT BE SERVED BY GRAVITY SEWER
 16. H.C.E. DESIGNATES HANDICAPPED ENTRANCE
 17. ALL SURROUNDING PROPERTIES ZONED R-20.
 18. TOPOGRAPHY AND BOUNDARY SHOWN HEREON SUPPLIED BY THE ARCHITECT.

LIGHTING SCHEDULE
 □ □ POLE MOUNTED LIGHTING FIXTURE WITH DOUBLE FIXTURES (POLE 20' HIGH)
 □ POLE MOUNTED LIGHTING WITH SINGLE FIXTURE (POLE 20' HIGH)

NOTE: ABOVE FIXTURE ARE 400 W., METAL HALIDE
 * BOLLARD TYPE FIXTURE ACCENT LIGHT

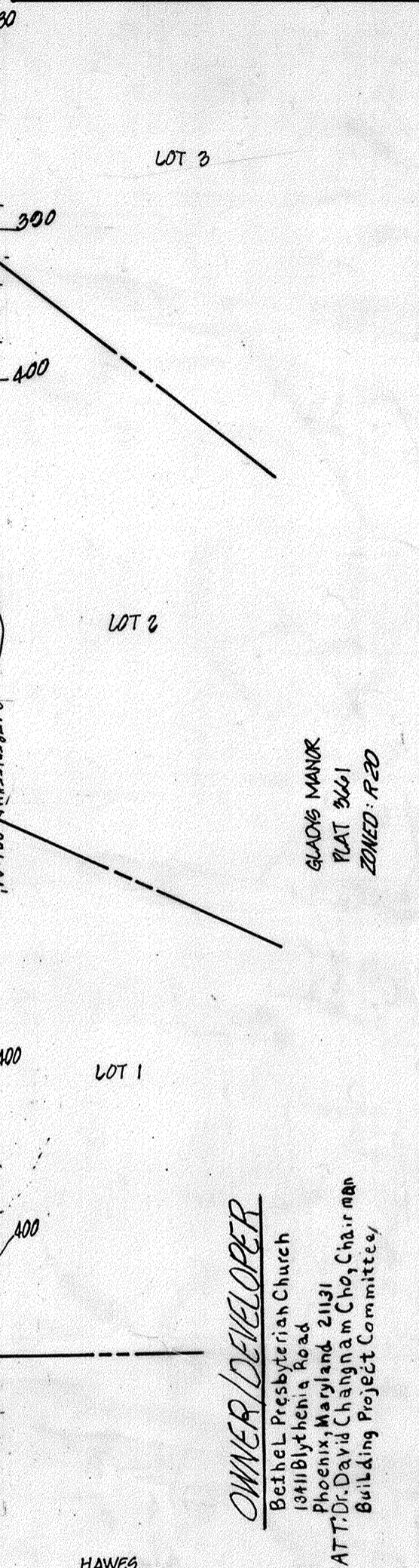
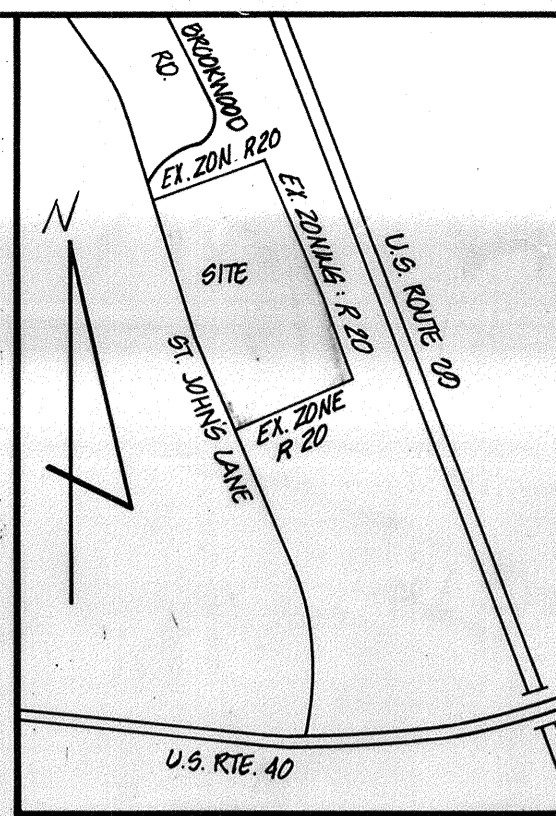


APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE: 11-4-85



NOTE: CONDITIONAL USE PETITION CASE NO. BA-03.05.c, WAS FILED AND APPROVED BY THE COUNTY FOR THE PROPOSED 10-TRAILER & BRIDGE PROJECT DATED 11/24/03

NOTE: DIRT USED FOR CORE TRENCH SHOULD BE CLASSIFIED AS ML-CL PER THE UNIFIED SOIL CLASSIFICATION SYSTEM.



ADDRESS CHART	LOT NUMBER	PARCEL	SECTION	AREA	LOT/PARCEL
9105 ST. JOHN'S LANE	1163	1163	1	1.163	1163
	1164	1164	1	1.164	1164
	1165	1165	1	1.165	1165
	1166	1166	1	1.166	1166
	1167	1167	1	1.167	1167
	1168	1168	1	1.168	1168
	1169	1169	1	1.169	1169
	1170	1170	1	1.170	1170
	1171	1171	1	1.171	1171
	1172	1172	1	1.172	1172
	1173	1173	1	1.173	1173
	1174	1174	1	1.174	1174
	1175	1175	1	1.175	1175
	1176	1176	1	1.176	1176
	1177	1177	1	1.177	1177
	1178	1178	1	1.178	1178
	1179	1179	1	1.179	1179
	1180	1180	1	1.180	1180

NO.	DATE	REVISIONS	DATE	BY
1	11-22-86	N.W. PARKING LOT REVERSED		KCE
2	3-18-04	LOCATE 10 TEMP. TRAILERS ORBIT PARKING LOT		KCE
3	9-21-04	ADDITION OF PEDESTRIAN BRIDGE		

BETHEL PRESBYTERIAN CHURCH
 HOWARD COUNTY, MARYLAND
 DESIGNTECH - EAST
 ARCHITECTS - PLANNERS
 CONSULTANTS - WASHINGTON, D.C.

SHEET TITLE: SITE DEVELOPMENT PLAN
 SCALE: 1"=40'
 DATE: 1-14-86
 APPROVED:
 CHECKED:
 DRAWING NO. C-1
 SDP-85-143

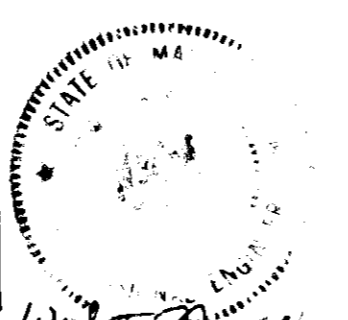
boender associates inc.
 consulting engineers
 land surveyors
 land planners
 COURTHOUSE SQUARE
 2565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD 21043
 (301) 465-7777

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] 5-19-86
U.S. SOIL CONSERVATION SERVICE DATE

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 COUNTY 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 THIRTY DAYS OF COMPLETION.

[Signature] 5-15-86
SIGNATURE OF ENGINEER DATE



I 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 THIRTY DAYS OF COMPLETION.

[Signature] May 15 1986
SIGNATURE OF DEVELOPER DATE

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

[Signature] 4/17/86
HOWARD SOIL CONSERVATION DISTRICT DATE

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

[Signature] 6-5-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

[Signature] 6-6-86
PLANNING DIRECTOR DATE

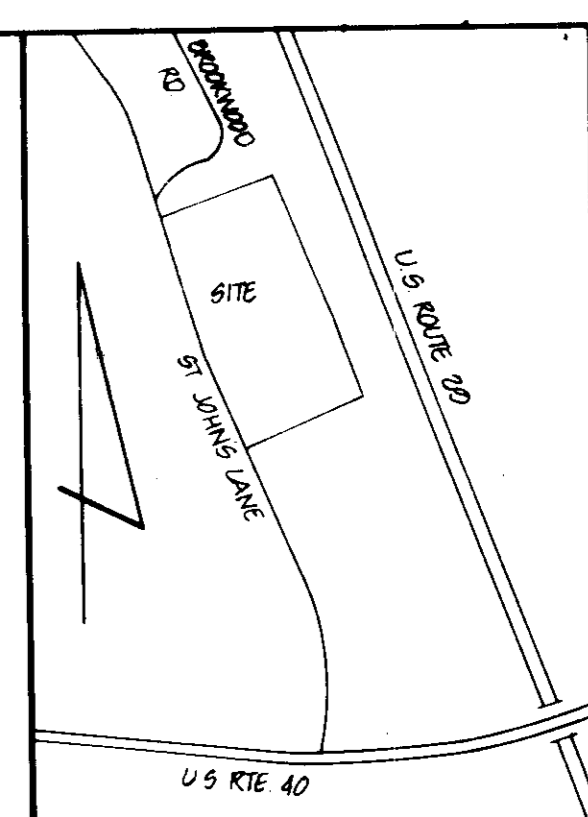
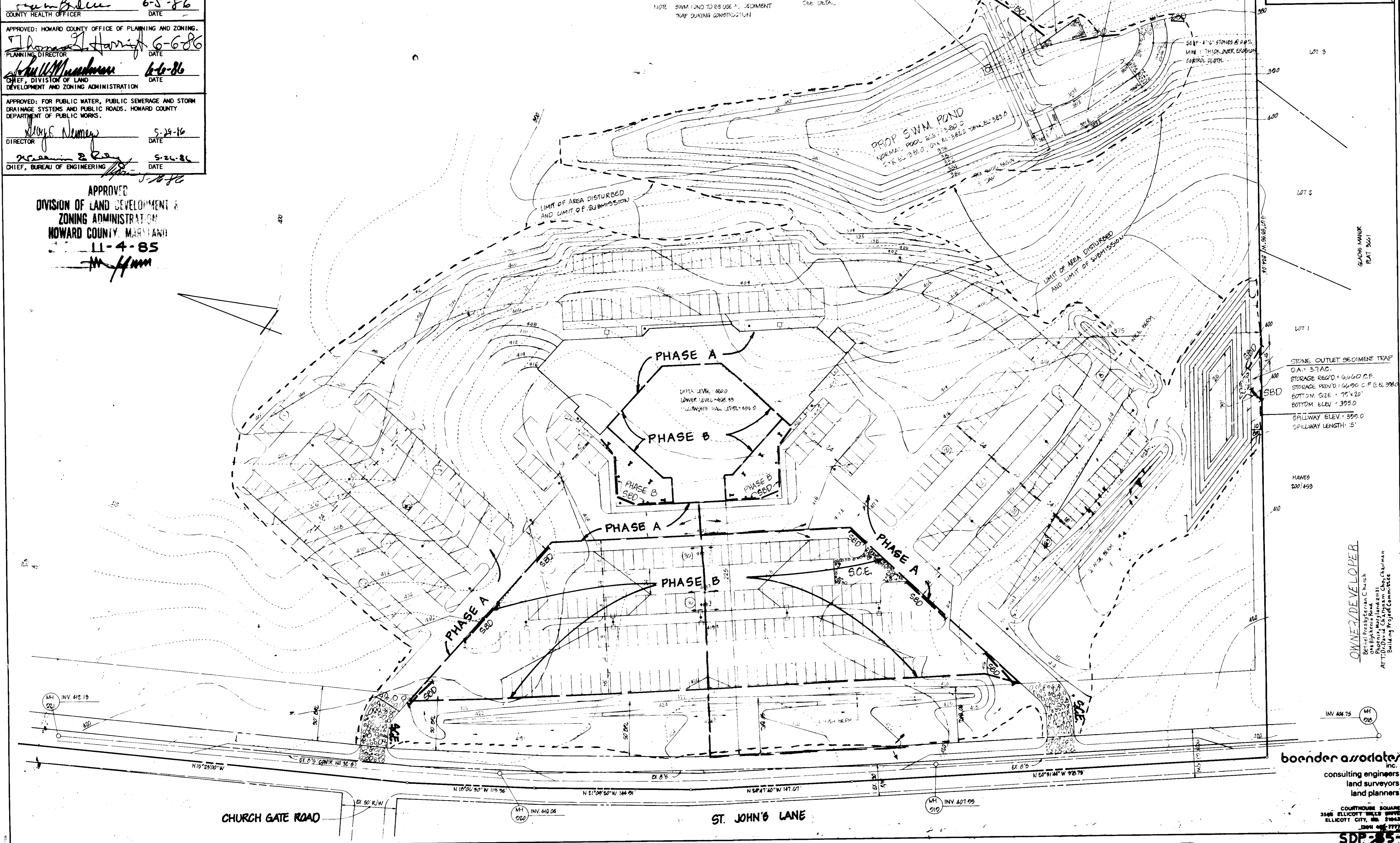
[Signature] 6-6-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

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

[Signature] 5-24-86
DIRECTOR DATE

[Signature] 5-24-86
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
HOWARD COUNTY, MARYLAND
LI-4-85



LOT 3
LOT 2
LOT 1
STONE OUTLET SEDIMENT TRAP
D.A. = 3.7 AC.
STORAGE REVD. = 44,600 C.F.
STORAGE REVD. = 66,900 C.F. @ EL. 390.0
BOTTOM SIZE = 75' x 20'
BOTTOM ELEV. = 395.0
SPILLWAY ELEV. = 395.0
SPILLWAY LENGTH = 15'

OWNER/DEVELOPER
Bethel Presbyterian Church
3448 Ellcott Drive
Baltimore, Maryland
ATTN: Building Project Committee

boender associates inc.
consulting engineers
land surveyors
land planners
COUNTHOUSE SQUARE
3508 ELLCOTT DRIVE
ELLCOTT CITY, MD 21043
PHONE 410-777-1777

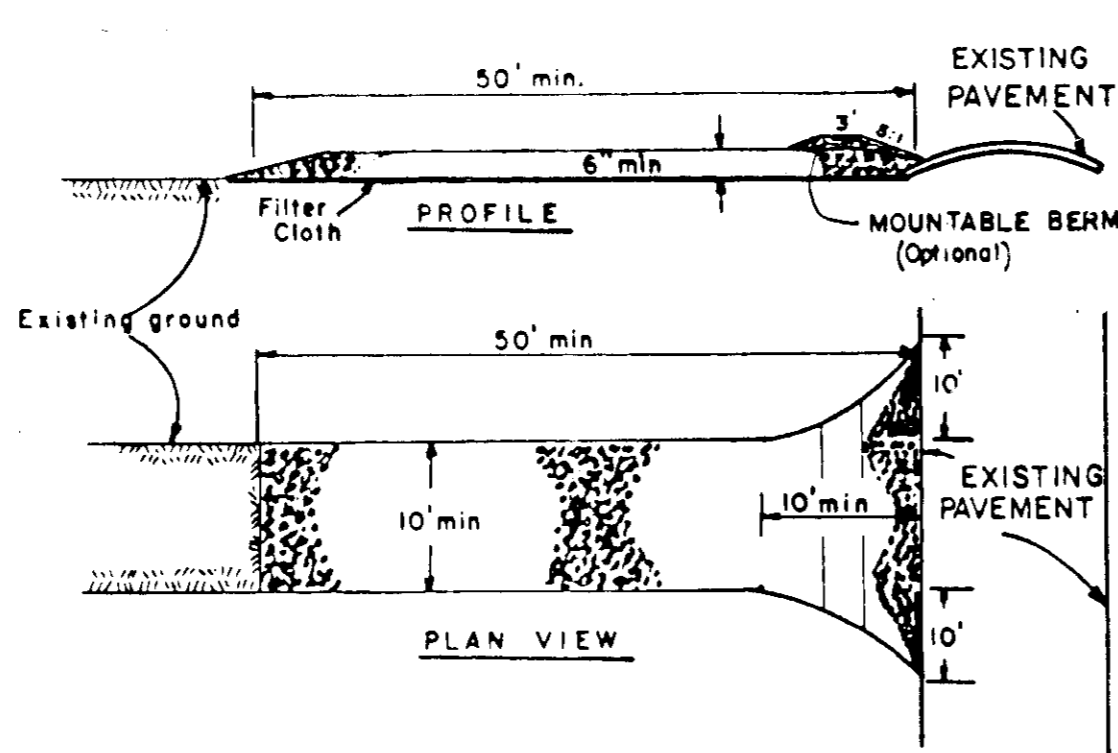
NO.	DATE	REVISIONS	BY

BETHEL PRESBYTERIAN CHURCH
140 GIBSON DISTRICT
241 MAP 7A
HOWARD COUNTY, MARYLAND
DESIGNTECH - EAST
ARCHITECTS PLANNERS CONSULTANTS WASHINGTON, D.C.

SHEET TITLE: EROSION CONTROL AND PHASING PLAN
DATE: 1-14-86
SCALE: 1" = 40'
CHECKED: [Signature]
APPROVED: [Signature]
DRAWING NO. C-2
2 OF 6
SDP-85-144

SEDIMENT CONTROL NOTES

- 1. 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)
2. 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.
3. Following are initial soil disturbance or redistribution, 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.
4. 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.
5. 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.
6. 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.
7. Site Analysis: Total Area of SUBMISSION 10.0 Acres, Area Disturbed 9.3 Acres, Area to be roofed or paved 3.5 Acres, Area to be vegetatively stabilized 5.9 Acres, Total Cut Cu. yds., Total Fill Cu. yds., Offsite waste/borrow area location N/A
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.



CONSTRUCTION SPECIFICATIONS

- 1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. 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.
6. 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.
7. 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 and repair and/or cleanup of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. 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.
9. Periodic inspection and needed maintenance shall be provided after each rain.

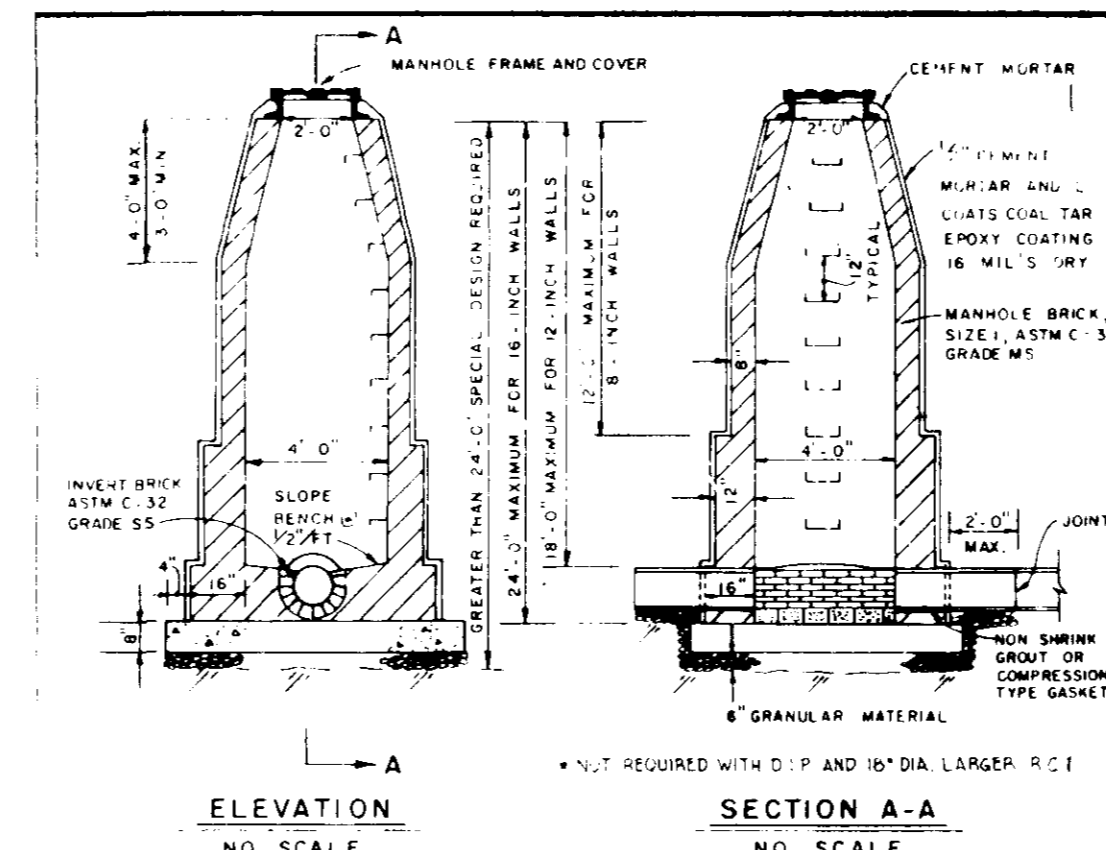
STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

Table with columns: TYPE OF TREATMENT, CHANNEL GRADE, DIKE A, DIKE B. Includes specifications for dike height, width, and flow depth.

EARTH DIKE

NOT TO SCALE

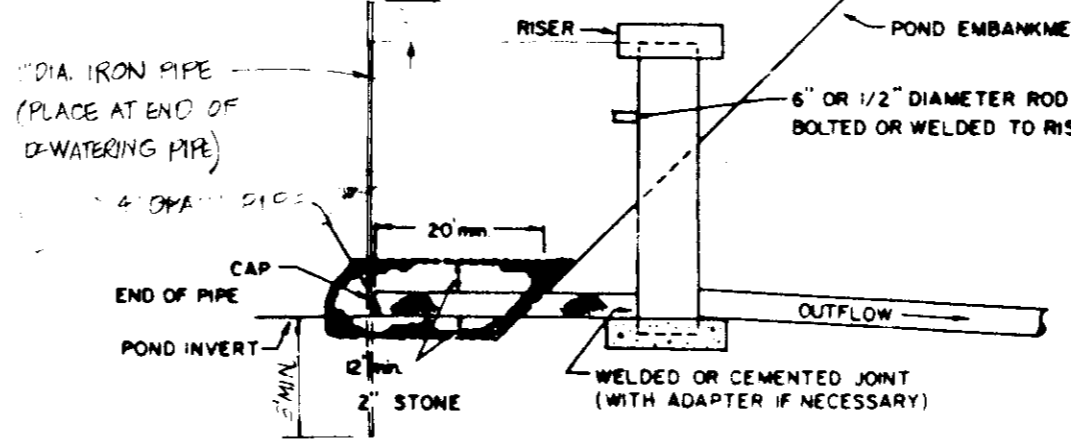


GENERAL NOTES APPLICABLE TO ALL BRICK MANHOLES

- 1. MANHOLE - ALL SHALL BE 4' HIGH CAST IN PLACE CONCRETE SLAB WITH 3" DIA. REBAR. ALL OTHER SLABS SHALL BE MIXED IN AN ENTRAINED MANHOLE BASE SHALL BE REINFORCED WITH 3" DIA. GRANULAR MATERIAL ON FIRM FURNACE EXCAVATION BELOW PIPES SHALL BE REINFORCED WITH GRANULAR MATERIAL 1/2" OF EACH SIDE TO TOP OF PIPE.
2. MANHOLE SETS SHALL BE AS SPECIFIED ON DETAIL 85-21.
3. PIPE JOINTS SHALL BE PROVIDED WITH 2" MAX FROM OUTSIDE OF MANHOLE WALL.
4. MANHOLE CHANNELS SHALL BE FINISHED TO PROVIDE A SMOOTH TRANSITION BETWEEN PIPES. EXTEND BENCH TO FULL HEIGHT OF PIPE DRAINING AND FROM USING GRADE 33 SEWER BRICK, ASTM C 32, SIZE NO. 1.
5. MANHOLE WALL THICKNESS SHALL BE:
6. MANHOLE COVER SHALL BE AS SHOWN ON DETAIL 85-21.
7. MANHOLE SETS SHALL BE AS SPECIFIED ON DETAIL 85-21.
8. MANHOLE COVER SHALL BE AS SHOWN ON DETAIL 85-21.
9. MANHOLE COVER SHALL BE AS SHOWN ON DETAIL 85-21.

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS APPROVED: Chief, Bureau of Engineering

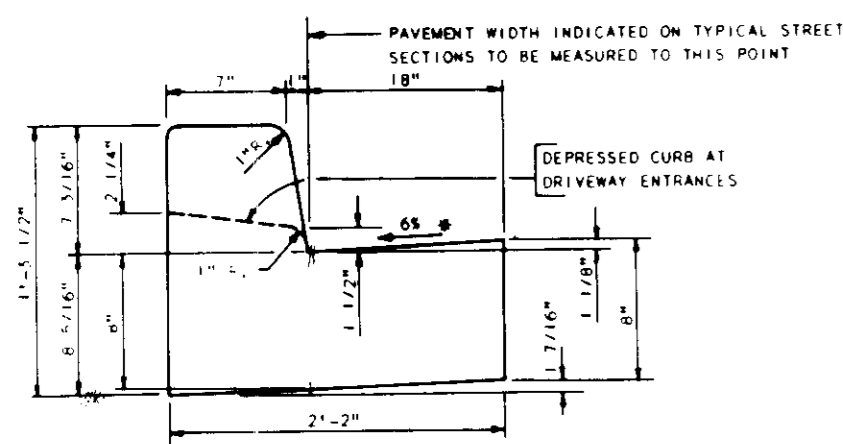
STANDARD SANITARY SEWER DETAILS 4'-0" BRICK MANHOLE FOR USE WITH PIPES 24" AND SMALLER



POND DEWATERING DEVICE

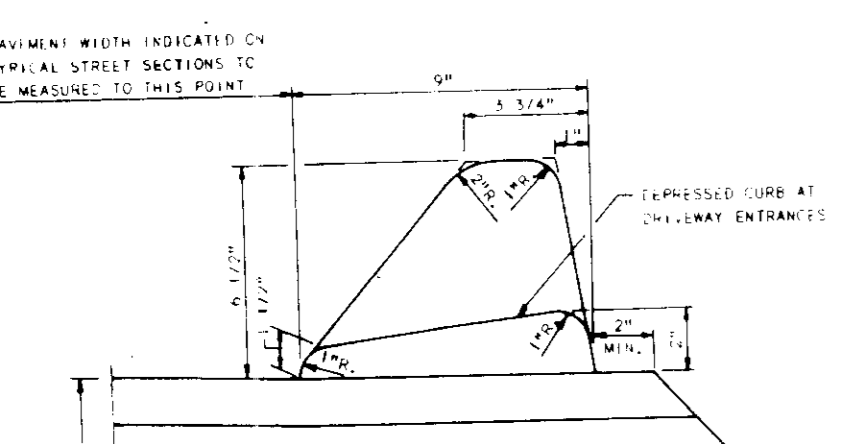
SEE SCS MANUAL, PG 18-29

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 11-4-85



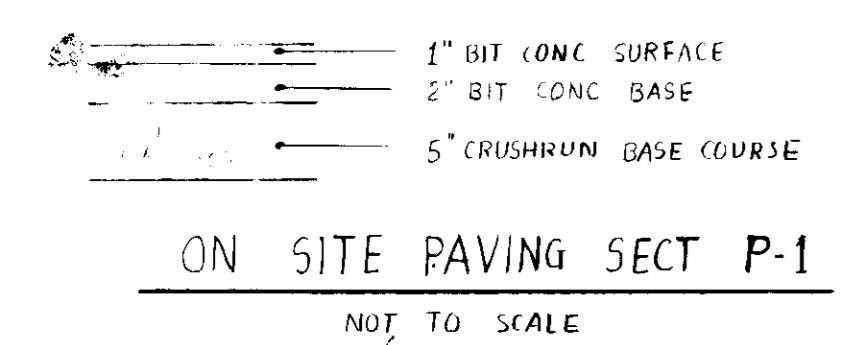
STD. 7" COMB. CURB & GUTTER

NOT TO SCALE



STD. BITUMINOUS CURB DETAIL

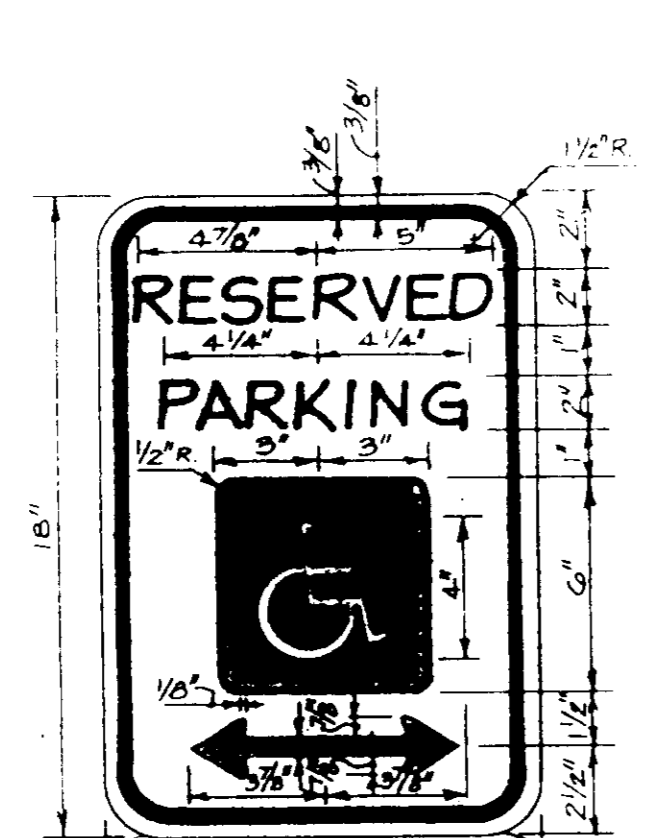
NOT TO SCALE



ON SITE PAVING SECT P-1

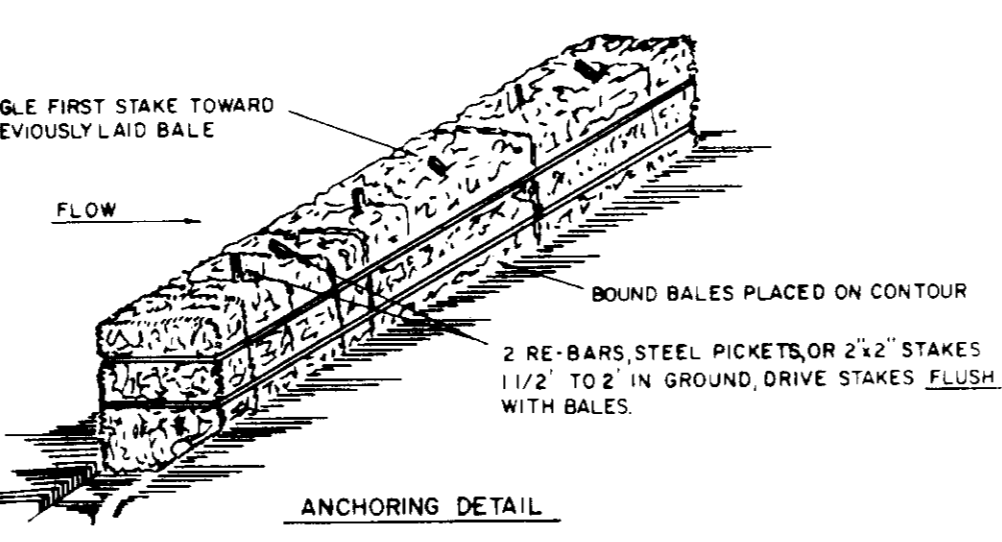
NOT TO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT. COUNTY HEALTH OFFICER DATE. APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING. PLANNING DIRECTOR DATE. APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. CHIEF, BUREAU OF ENGINEERING DATE.



HANDICAPPED PARKING SIGN

NOT TO SCALE



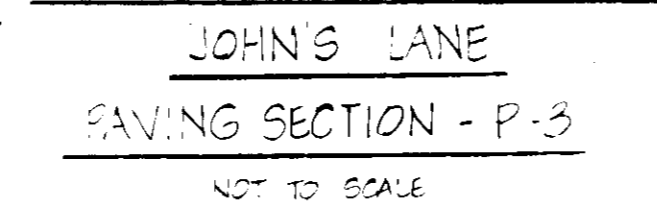
STRAW BALE DIKE

NOT TO SCALE

- 1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED EARTH STORM FLOW OR DRAINAGE.

1 1/2" BIT CONC SURFACE, 4 1/2" BIT CONC BASE, 5" CRUSHED CONC COURSE

ACCELL - DECEL LANES - ST. JOHN'S LANE



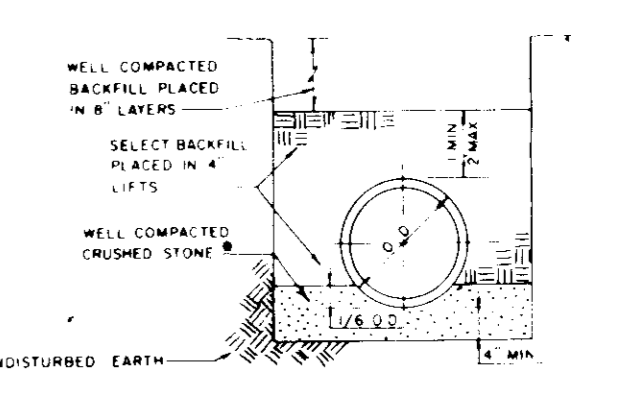
NOT TO SCALE

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 5-19-86. 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 5/19/86. 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 COUNTY 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 THIRTY DAYS OF COMPLETION. SIGNATURE OF ENGINEER DATE 5-15-86. I 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 THIRTY DAYS OF COMPLETION. SIGNATURE OF DEVELOPER DATE May 15 1986.



Table with columns: TRENCH WIDTH, NOMINAL PIPE DIA, X, Y.

- NOTES: 1. FOR 60% OF PIPE USE MANUFACTURER'S SPECIFICATIONS OR FIELD MEASURE CIRCUMFERENCE OF PIPE AND DIVIDE BY 3.14. 2. WITHIN ROAD RIGHT OF WAY TRENCH CONSTRUCTION DENSITY SHALL BE 95% AS DETERMINED BY AASHTO T-99. C. 3. FOR CONDITIONS REQUIRING SLOPE SHEETING OR TRENCH SHEETS, A SHALL NOT EXCEED 30'.



TRENCH DETAIL

NOT TO SCALE

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-V

- 1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. 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.
3. All cut and fill slopes shall be 2:1 or flatter.
4. The stone used in the outlet shall be small riprap 4"-8" along with a 1" thickness of 2" aggregate placed on the up-grade side on the small riprap embedded filter cloth in the riprap.
5. 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.
6. The structure shall be inspected after each rain and repairs made as needed.
7. Construction operations shall be carried out in such a manner that erosion and water pollution is minimized.
8. The structure shall be removed and the area stabilized when the drainage area has been properly established.

Maximum Drainage Area: 5 Acres

STONE OUTLET SEDIMENT TRAP

NOT TO SCALE

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

Seeded 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 schedules

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow 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).
2) 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. Harrow 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 per acre 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 rotted 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 redistributed where a short-term vegetative cover is needed.

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

Soil Amendments: Apply 600 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 rotted 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.

OWNER / DEVELOPER: BETHEL PRESBYTERIAN CHURCH, 3041 BETHLEHEM ROAD, PHOENIX, MD 21151. ATTN: DR. DAVID CHANGNAM, CHAIRMAN, BUILDING PROJECT COMMITTEE.

boender associates inc. consulting engineers land surveyors land planners

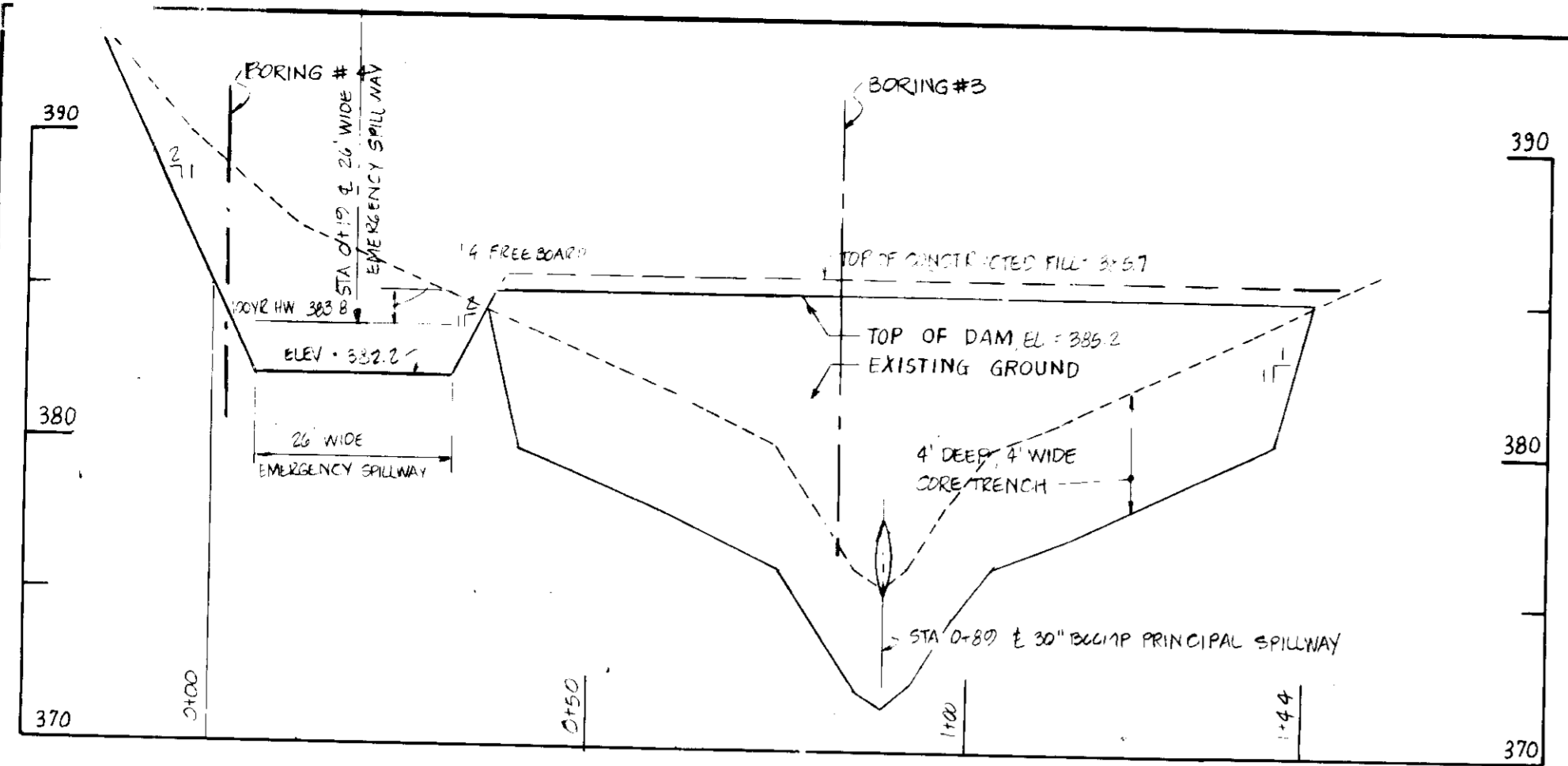
COURTHOUSE SQUARE 3555 ELLICOTT MILLS DRIVE ELLICOTT CITY, MD 21043 (301) 485-7777

SDP-85-143

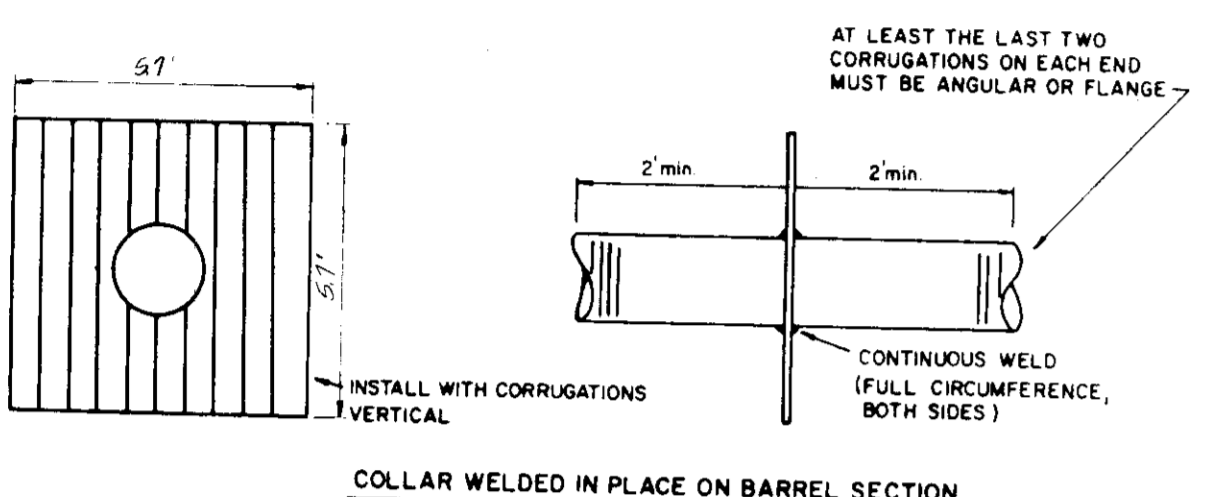
Table with columns: REVISIONS, DATE, REVISIONS, REF BY.

BETHEL PRESBYTERIAN CHURCH ARCHITECTS PLANNERS CONSULTANTS WASHINGTON, D.C. DESIGNTECH - EAST

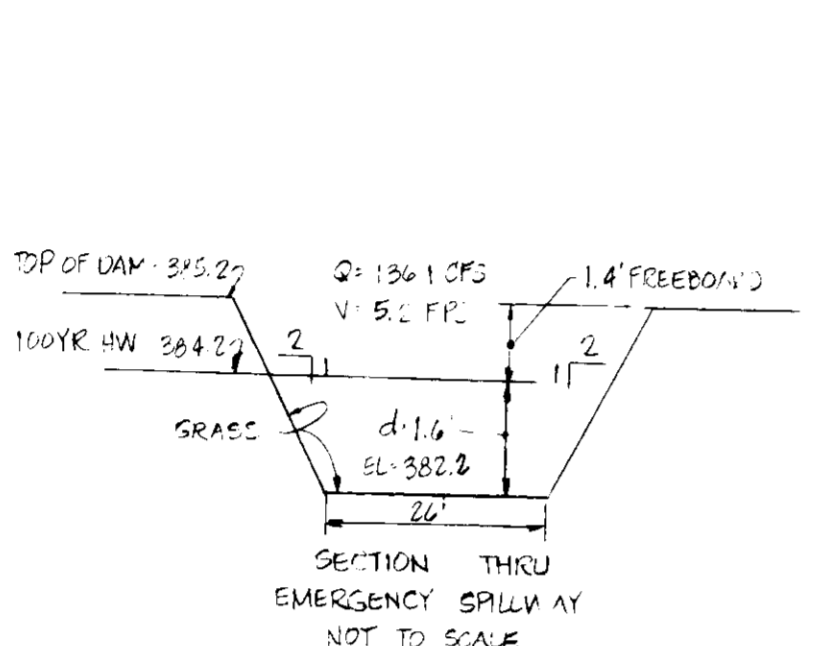
Table with columns: SHEET TITLE, MISC. DETAILS, APPROVED, CHECKED, DATE, SCALE, DRAWING NO., C-3.



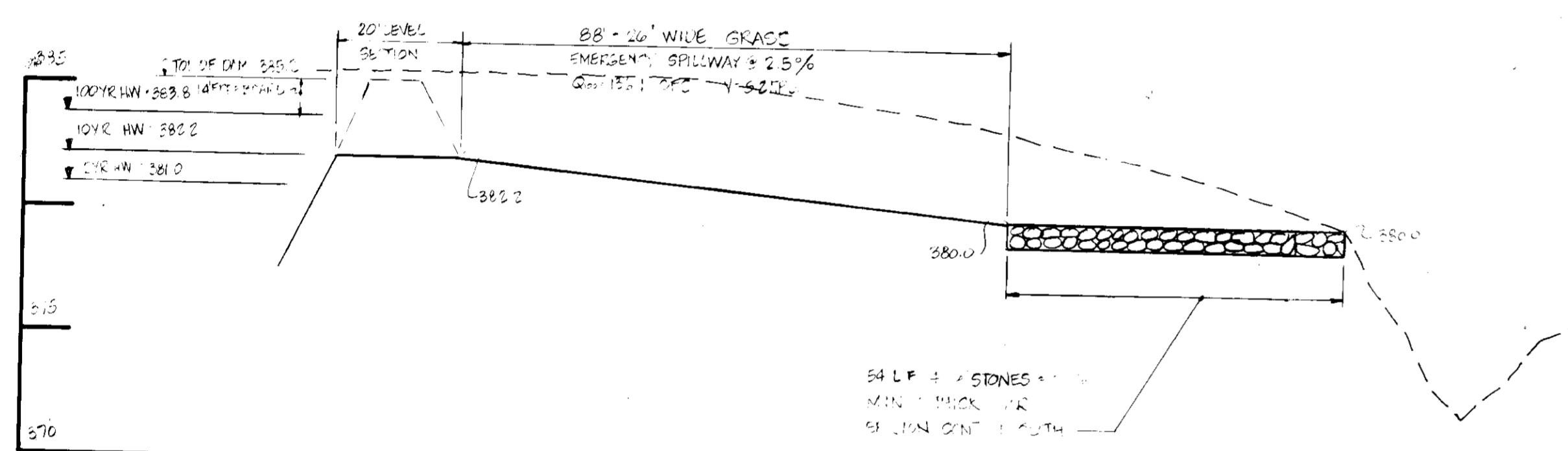
PROFILE: TOP OF DAM
SCALE: 1" = 20' HORIZ
1" = 5' VERT



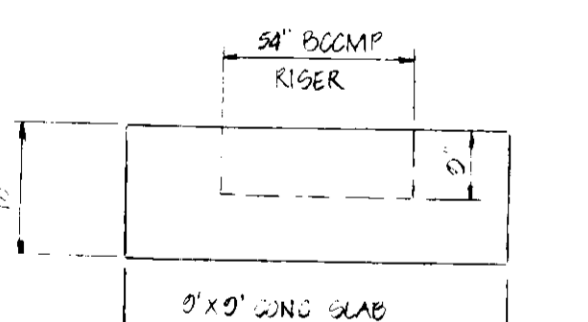
TYPICAL ANTI-SEEP COLLAR DETAIL
NOT TO SCALE



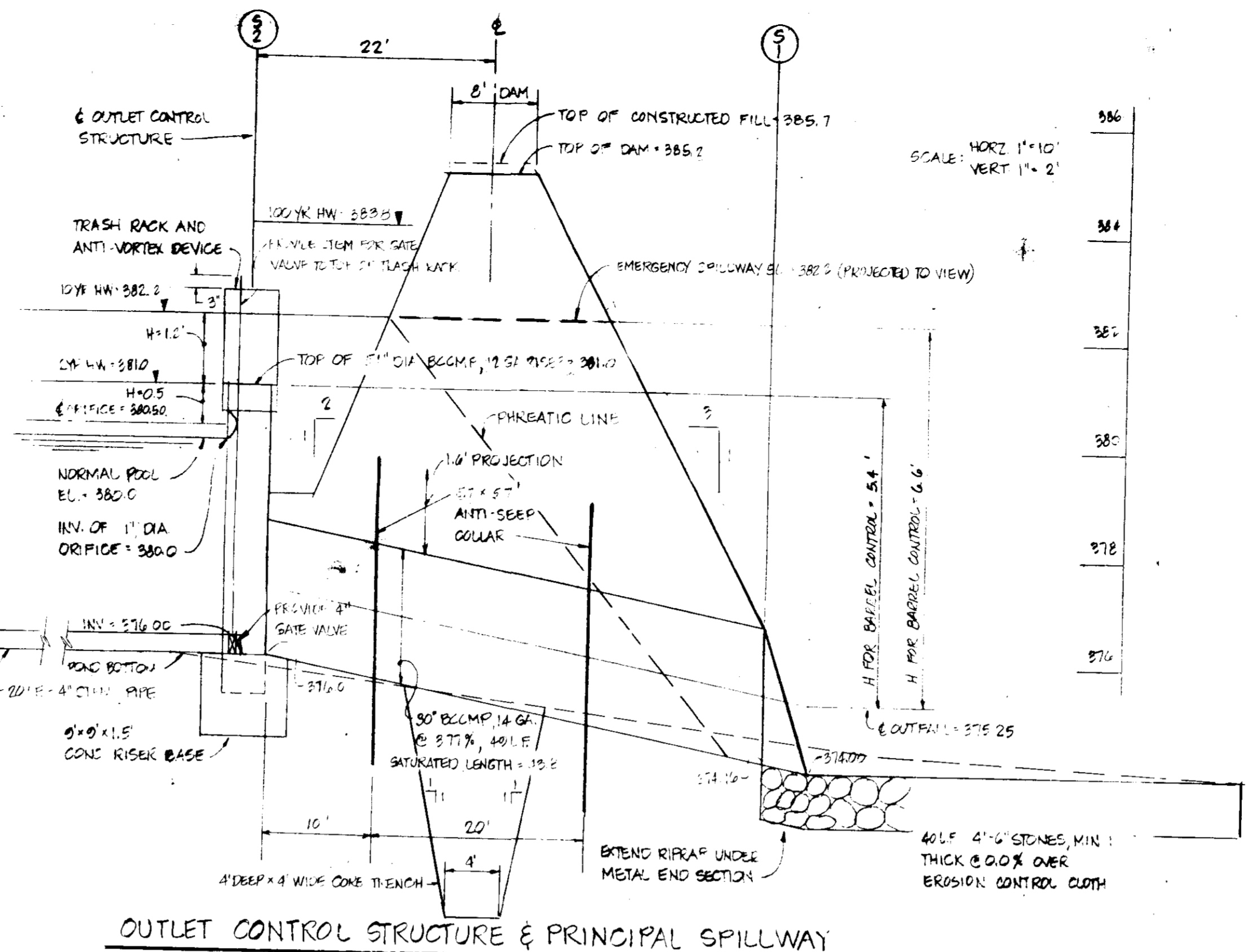
SECTION THRU EMERGENCY SPILLWAY
NOT TO SCALE



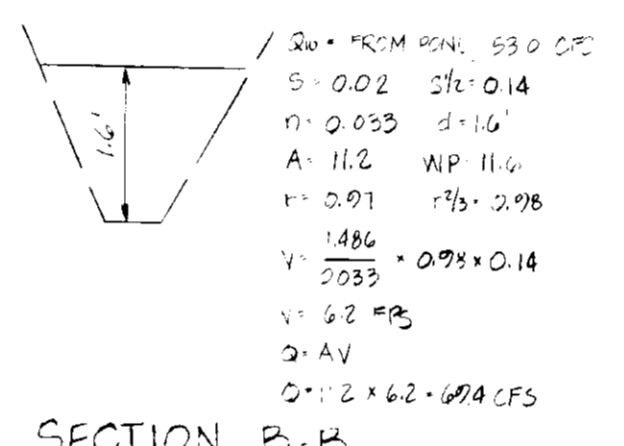
PROFILE: EMERGENCY SPILLWAY
SCALE: HORIZ 1" = 20'
VERT. 1" = 5'



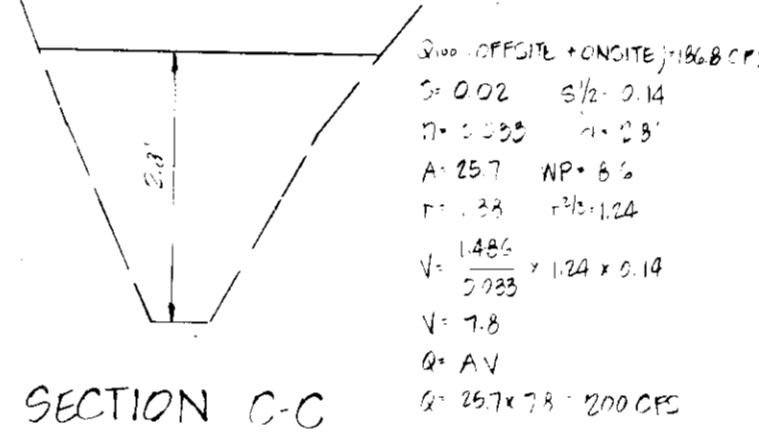
CONC RISER BASE DETAIL
NOT TO SCALE



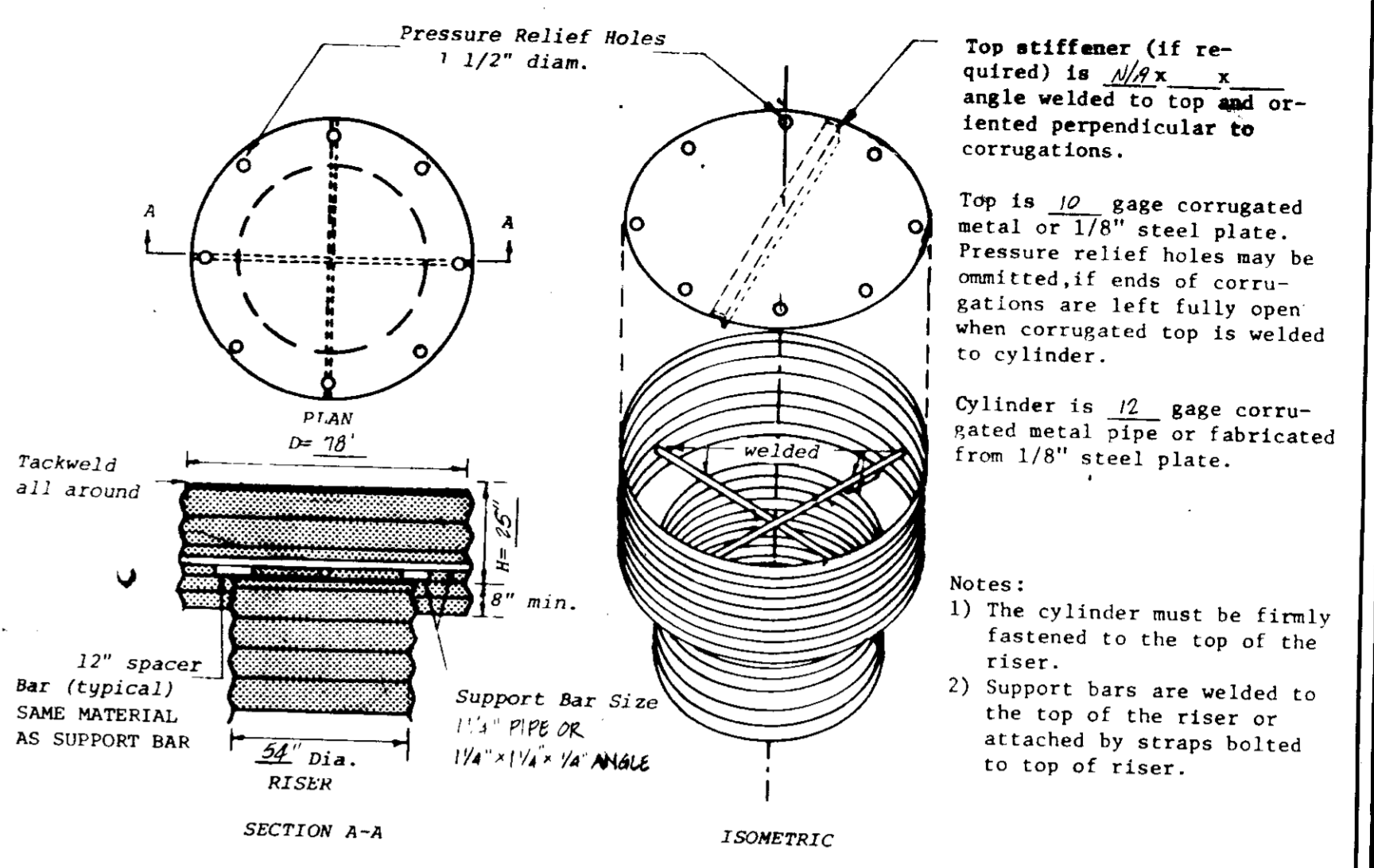
OUTLET CONTROL STRUCTURE & PRINCIPAL SPILLWAY
SCALE: HORIZ 1" = 10'
VERT. 1" = 2'



SECTION B-B



SECTION C-C
SEE SHEET TOP OF DAM SECTION LOCATIONS



TRASH RACK DETAIL
NOT TO SCALE

CONSTRUCTION SEQUENCE

PHASE A

1. OBTAIN BUILDING PERMIT. CALL MISC UTILITY @ 500-0100
2. NOTIFY THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS AND THE CONSTRUCTION INSPECTION/SURVEYS DIVISION AT LEAST 24 HOURS PRIOR TO BEGINNING CONSTRUCTION
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES. (S.C.E., STONE OUTLET SEDIMENT TRAP, S.O.D.)
4. INSTALL SHAM POND AND USE AS SEDIMENT BASIN DURING CONSTRUCTION. BLACK 4" DRAIN PIPE (SEE DETAIL, SHEET 2 OF 4)
5. ROUGH GRADE SITE. INSTALL UTILITIES. STABILIZE AREAS TO BE PAVED WITH BASE COURSE.
6. CONSTRUCT BUILDING (PHASE A)
7. PAVE AREAS TO BE PAVED. FINE GRADE SITE. APPLY PERMANENT STABILIZATION TO ALL DISTURBED AREAS
8. WITH THE PERMISSION OF THE BUREAU OF LICENSES, INSPECTIONS AND PERMITS, RETURN SEDIMENT BASIN TO S.W.M. POND AND REMOVE STONE OUTLET TRAP BY:
 - SEDIMENT BASIN:
 - 1) PUMP STANDING WATER ONTO STABILIZED OUTFALL.
 - 2) REMOVE SEDIMENT AND DEPOSIT AT A LOCATION WHERE THERE IS AN APPROVED SEDIMENT PLAN
 - 3) SHAPE BASIN TO DESIGN SIZE AND APPLY PERMANENT STABILIZATION AND
 - STONE OUTLET TRAP:
 - 1) PUMP STANDING WATER ONTO STABILIZED OUTFALL.
 - 2) FILL IN TRAP TO MEET ORIGINAL GRADE
 - 3) STABILIZE WITH PERMANENT STABILIZATION AND REMOVE ALL TEMPORARY SEDIMENT CONTROL MEASURES

PHASE B

1. OBTAIN BUILDING PERMIT
2. NOTIFY THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTIONS AND PERMITS AND THE CONSTRUCTION INSPECTION/SURVEYS DIVISION AT LEAST 24 HOURS PRIOR TO BEGINNING CONSTRUCTION
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES. (S.C.E. AND S.B.D.)
4. ROUGH GRADE. INSTALL UTILITIES. STABILIZE AREAS TO BE PAVED WITH BASE COURSE. APPLY TEMPORARY STABILIZATION
5. CONSTRUCT BUILDING (PHASE B)
6. PAVE AREAS TO BE PAVED. FINE GRADE. APPLY PERMANENT STABILIZATION.
7. REMOVE TEMPORARY SEDIMENT CONTROL MEASURES WITH APPROVAL OF THE BUREAU OF LICENSES, INSPECTIONS AND PERMITS.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Joseph G. G... 6-8-86
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
 Thomas H... 6-6-86
 PLANNING DIRECTOR DATE

APPROVED: DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION
 William M... 6-6-86
 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 Mike F. Newmyer 5-21-86
 DIRECTOR DATE

APPROVED: CHIEF, BUREAU OF ENGINEERING
 May 15 1986
 DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Stephen L. H... 5/19/86
 HOWARD SOIL CONSERVATION DISTRICT 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. Helm 5-19-86
 U.S. SOIL CONSERVATION SERVICE DATE

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 COUNTY 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 THIRTY DAYS OF COMPLETION.
 Waim F... 5-13-86
 SIGNATURE OF ENGINEER DATE

I 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 THIRTY DAYS OF COMPLETION.
 David C. O... May 15 1986
 SIGNATURE OF DEVELOPER DATE

APPROVED
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION
 HOWARD COUNTY, MARYLAND
 DATE 11-4-85
 W. J. ...



OWNER / DEVELOPER
 BETHEL PRESBYTERIAN CHURCH
 13411 SULTHENIA ROAD
 PHOENIX, MD. 21131
 ATTN: DR. RAND CHANGHAM CHD, CHAIRMAN
 BUILDING PROJECT COMMITTEE

boender associates
 inc.
 consulting engineers
 land surveyors
 land planners

COURTHOUSE SQUARE
 3585 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 488-7777

DATE	REVISIONS	REF	BY

BETHEL PRESBYTERIAN CHURCH
 HOWARD COUNTY, MARYLAND
 DESIGN TECH · EAST
 ARCHITECTS · PLANNERS · CONSULTANTS · WASHINGTON, D.C.

SHEET TITLE: S.W.M. DETAILS & SECTIONS
 DATE: 1-14-86
 SCALE: AS SHOWN
 CHECKED: APPROVED:
 DRAWING NO. C-4
 4 OF 8

SOIL CONSERVATION SERVICE MARYLAND CONSTRUCTION SPECIFICATIONS
FOR PONDS

I. SITE PREPARATION

Areas under the borrow areas, embankment, and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

Areas covered by the pond or 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.

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

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free of roots, stumps, wood, rubbish, over-size stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height shall be the length of the embankment shall be increased above the design elevation (including freeboard) as shown on the plans.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of 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 materials shall contain sufficient moisture such that the required degree of compaction can be obtained with the equipment used.

Cutoff Trench

Where specified, a cutoff trench shall be excavated along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill material for the cutoff trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability.

III. STRUCTURAL BACKFILL

Backfill material 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 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 contractor drive equipment 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

A. Corrugated Metal Pipe

1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous 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 AASHTO Specification M-196 or M-211 with watertight coupling bands. Coupling bands, anti-seep collars, end sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness. 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 less than 9 and greater than 4. Helically corrugated pipe in addition to the requirements above shall have either continuously welded seams or have lock seams which are caulked, during fabrication, with a neoprene bead.

- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Watertight coupling bands shall be connected at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to 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.
- Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

B. Reinforced Concrete Pipe

- Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-361. Approved equivalents are AWWA Specification C-300, 301, and 302.
- 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 10% of its diameter with a minimum thickness of 3", 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 length, 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.
- Backfilling shall conform to structural backfill as shown above.
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

C. For pipes of other materials, specific specifications shall be shown on the drawings.

V. CONCRETE

1. Materials

- Cement - Normal Portland cement shall conform to the latest ASTM Specification C-150.
- Water - The water used in concrete shall be clean, free from oil, acid, alkali, scales, organic matter or other objectionable substances.
- Sand - The sand used in concrete shall be clean, hard, strong and durable, and shall be well graded with 100 percent passing a one-quarter inch sieve. Limestone sand shall not be used.
- Coarse Aggregate - The coarse aggregate shall be clean, hard, strong and durable, and free from clay or dirt. It shall be well graded with a maximum size of one and one-half (1-1/2) inches.
- Reinforcing Steel - The reinforcing steel shall be deformed bars of intermediate grade billet steel or rail steel conforming to ASTM Specification A-615.

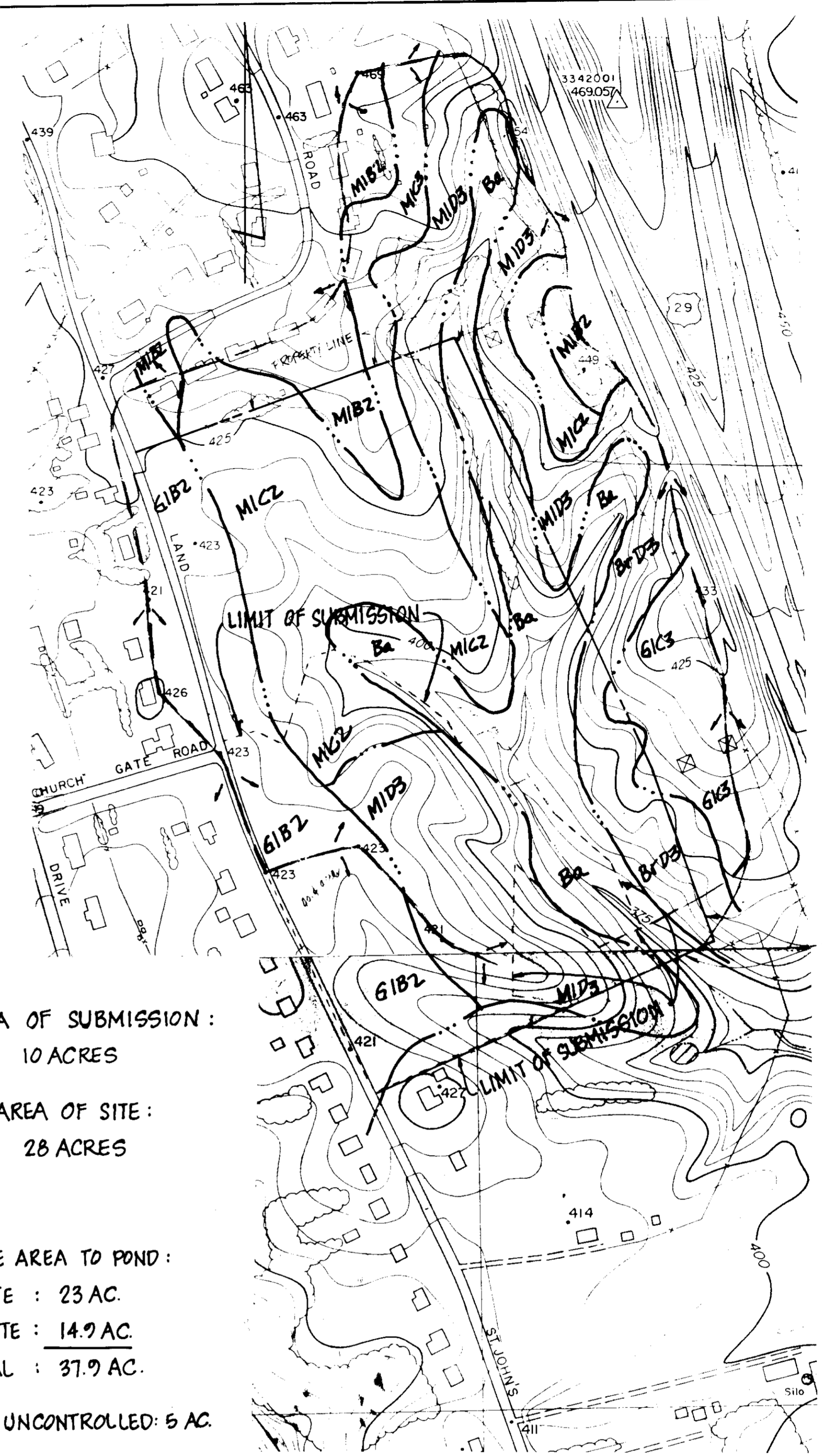
2. Design Mix - The concrete shall be mixed in the following proportions, measured by weight. The water-cement ratio shall be 5-1/2 to 6 U. S. gallons of water per 94 pound bag of cement. The proportion of materials for the trial mix shall be 3:2:3-1/2. The combination of aggregates will not produce harshness in placing or honeycombing in the structure.

3. Mixing - The concrete ingredients shall be mixed in batch mixers until the mixture is homogeneous and of uniform consistency. The mixing of each batch shall continue for not less than one and one-half minutes after all the ingredients, except the full amount of water, are in the mixer. The minimum mixing time is predicted on proper control of the speed of rotation of the mixer and of the introduction of the materials, including water, into the mixer. Water shall be added prior to, during, and following the mixer-charging operations. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted. Truck mixing will be allowed provided that the use of this method shall cause no violation of any applicable provisions of the specifications given here.

- Forms - The forms shall have sufficient strength and rigidity to hold the concrete and to withstand the necessary pressure, tamping, and vibration without deflection from the prescribed lines. They shall be mortar-tight and constructed so that they can be removed without hammering or prying against the concrete. The inside of forms shall be oiled with a non-staining mineral oil or thoroughly wetted before concrete is placed. Forms may be removed 24 hours after the placement of concrete. All wire ties and other devices used shall be recessed from the surface of the concrete.
- Reinforcing Steel - All reinforcing material shall be free of dirt, rust, scale, oil, paint or any other coatings. The steel shall be accurately placed and securely tied and blocked into position so that no movement of the steel will occur during placement of concrete.
- Consolidating - Concrete shall be consolidated with internal type mechanical vibrators. Vibration shall be supplemented by spading and hand tamping as necessary to insure smooth and dense concrete along form surfaces, in corners, and around embedded items.
- Finishing - Defective concrete, honeycombed areas, voids left by the removal of tie rods, ridges on all concrete surfaces permanently exposed to view or exposed to water on the finished structure, shall be repaired immediately after the removal of forms. All voids shall be reamed and completely filled with dry-patching mortar.
- Protection and Curing - Exposed surfaces of concrete shall be protected from the direct rays of the sun for at least the first three (3) days. All concrete shall be kept continuously moist for at least ten (10) days after being placed. Moisture may be applied by spraying or sprinkling as necessary to prevent the concrete from drying. Concrete shall not be exposed to freezing during the curing period. Curing compounds may also be used.

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, fertilizing and mulching (if required) in accordance with the vegetative treatment specifications shown on or accompanying the drawings.



AREA OF SUBMISSION:
10 ACRES

TOTAL AREA OF SITE:
28 ACRES

DRAINAGE AREA TO POND:
ONSITE : 23 AC.
OFFSITE : 14.9 AC.
TOTAL : 37.9 AC.

ONSITE UNCONTROLLED: 5 AC.

DRAINAGE AREA MAP
SCALE: 1" = 200'
SOILS MAP
SCALE: 1" = 200'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
[Signature] 6-5-86
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING.
[Signature] 6-5-86
PLANNING DIRECTOR DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE AND STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
[Signature] 5-1-86
DIRECTOR DATE

APPROVED: BUREAU OF ENGINEERING.
[Signature] 5-24-86
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DIVISION OF LAND DEVELOPMENT
ZONING ADMINISTRATION
HOWARD COUNTY
DATE 11-4-85

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] 5-19-86
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.
[Signature] 5-17-86
HOWARD SOIL CONSERVATION DISTRICT DATE

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 COUNTY 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 THIRTY DAYS OF COMPLETION.
[Signature] 5-15-86
SIGNATURE OF ENGINEER DATE

I 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 THIRTY DAYS OF COMPLETION.
[Signature] May 15 1986
SIGNATURE OF DEVELOPER DATE



OWNER / DEVELOPER
BETHEL PRESBYTERIAN CHURCH
3611 BETHLEHEM RD.
ROCKVILLE, MD 20851
ATTN: DR. DAVID GUNSHAW, SR. CHAIRMAN
BUILDING PROJECT COMMITTEE

boender associates
inc.
consulting engineers
land surveyors
land planners

COURTHOUSE SQUARE
3565 ELLICOTT HILLS DRIVE
ELLICOTT CITY, MD 21043
(301) 465-7777

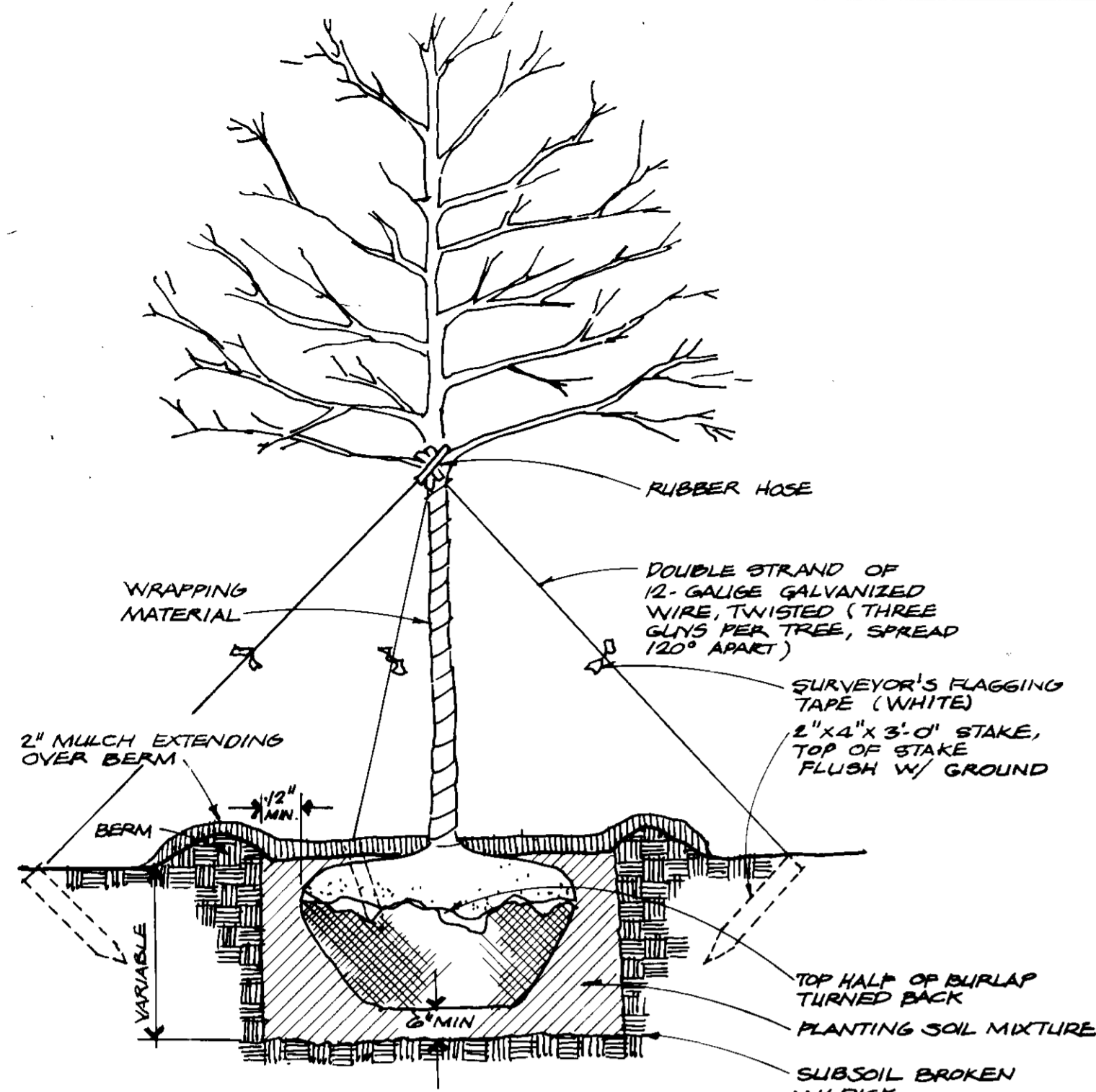
DATE	REVISIONS	REF BY

BETHEL PRESBYTERIAN CHURCH
AND BETHLEHEM DISTRICT
TOWNSHIP, STATE OF MARYLAND
30 MAY 84

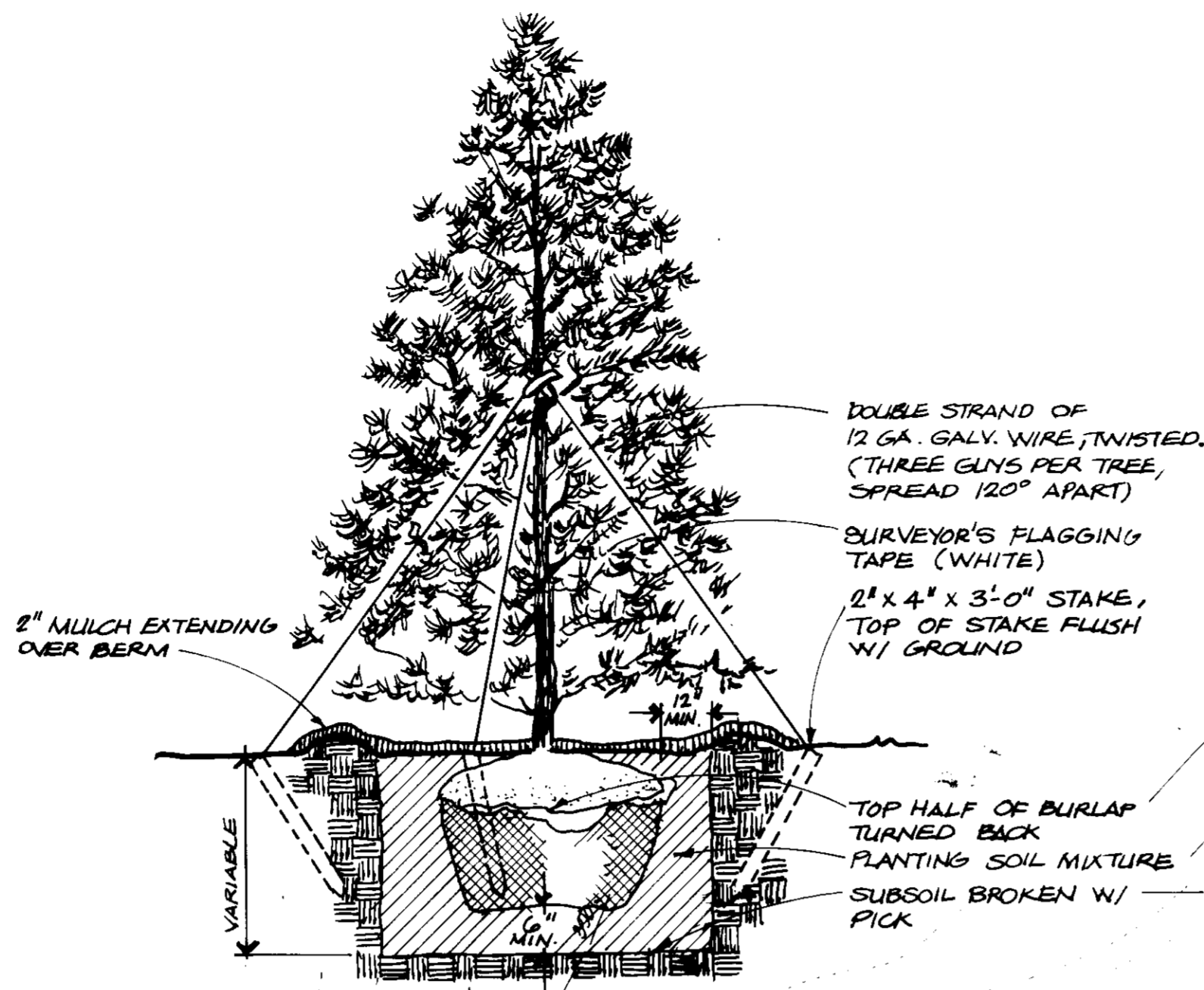
DESIGNTECH - EAST
PLANNERS ARCHITECTS CONSULTANTS WASHINGTON, D.C.

SHEET TITLE: S.W.M. POND SPECS.
SCALE: AS SHOWN
DATE:

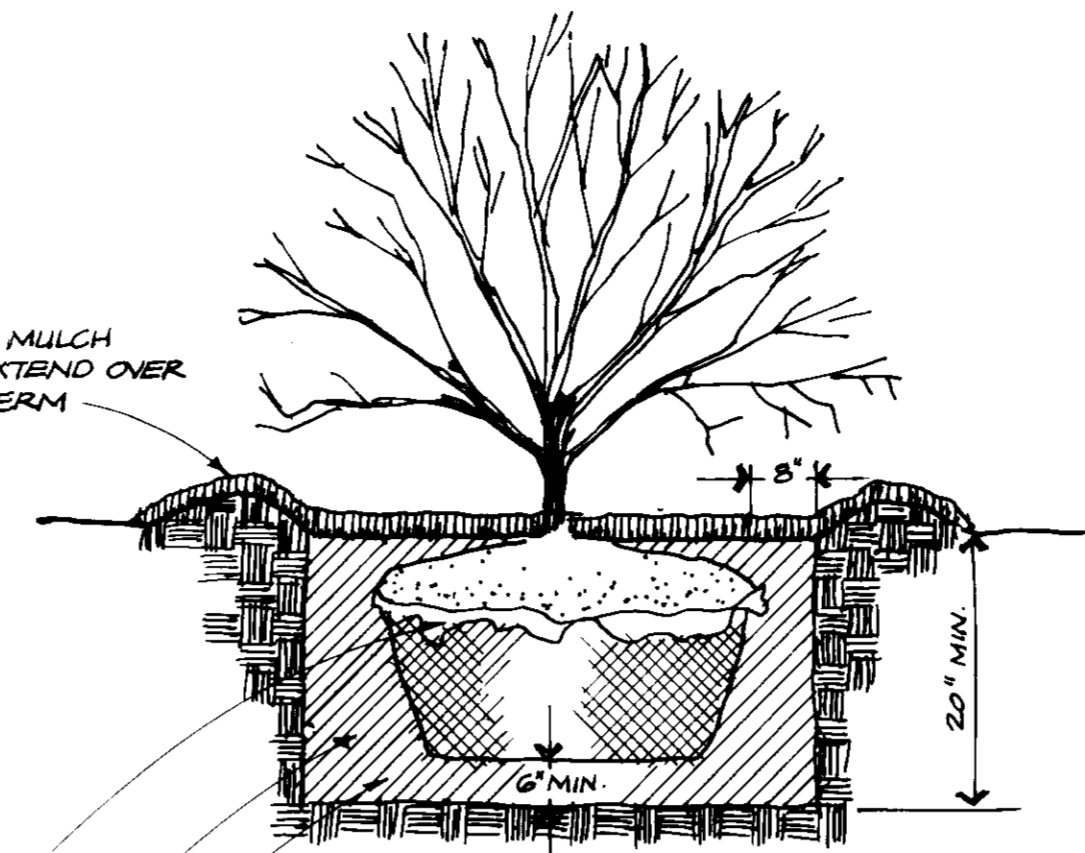
DRAWING NO. C-5
SDP-85-143



PLANTING & GUYING DETAIL
FOR DECIDUOUS TREES UNDER 4" CAL.,
6' AND MORE IN HEIGHT
(NOT - TO - SCALE)



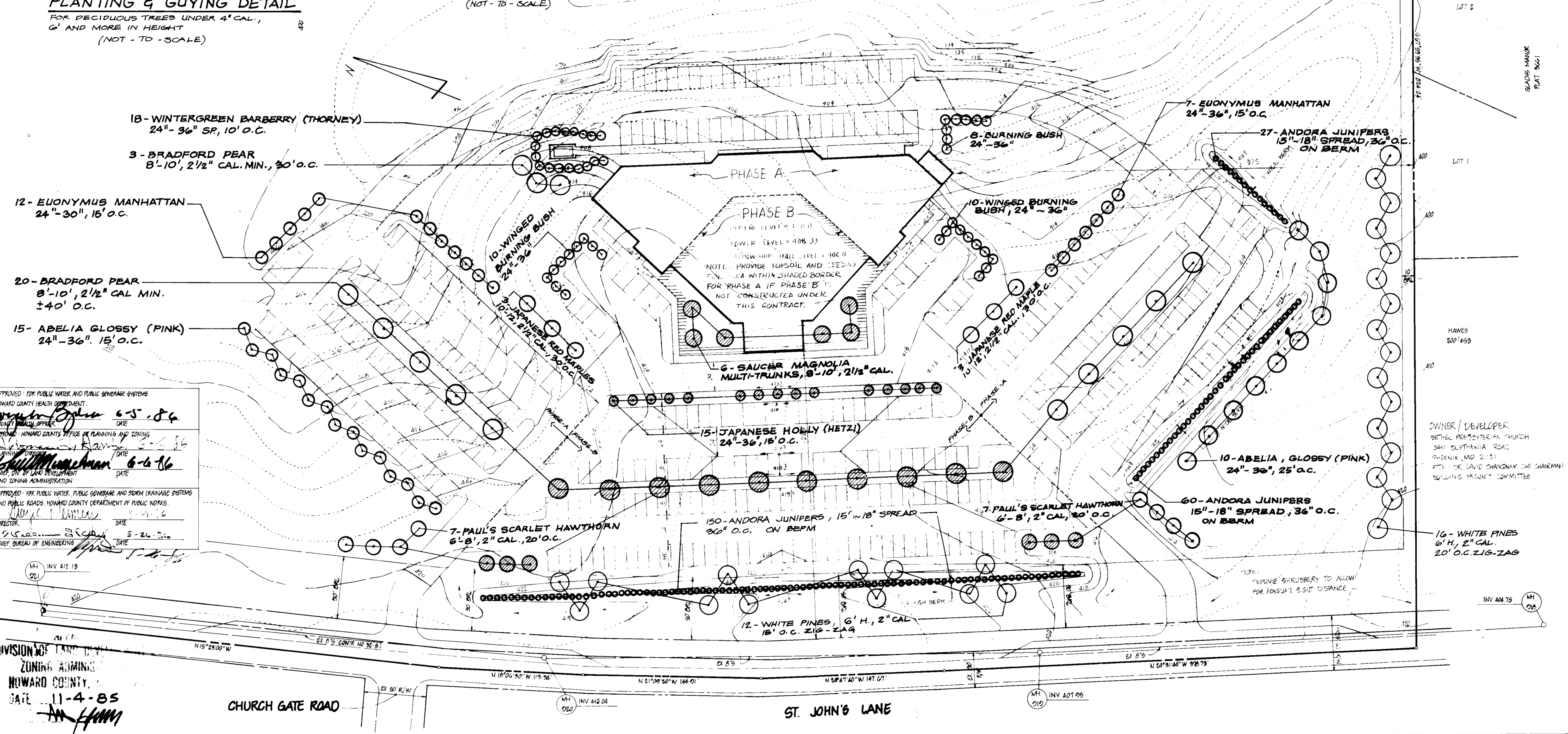
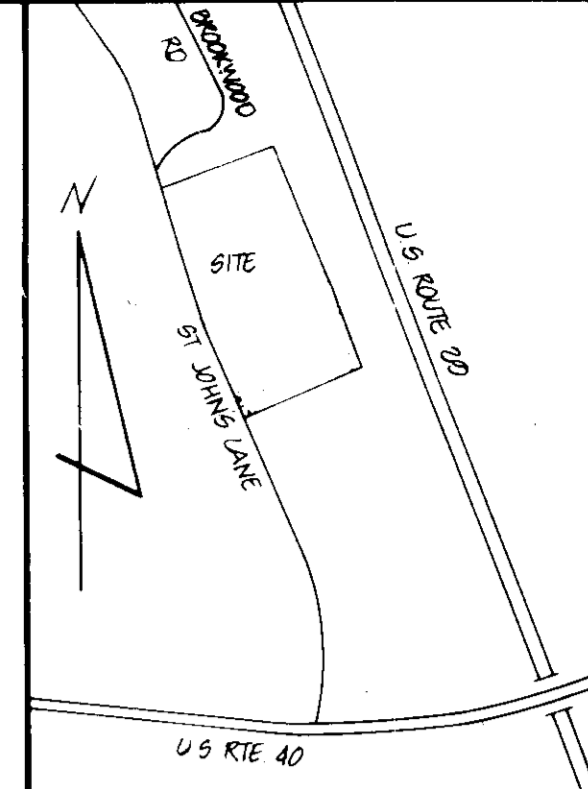
PLANTING & GUYING DETAIL
FOR EVERGREEN TREES BETWEEN
6' AND 12' IN HEIGHT
(NOT - TO - SCALE)



SHRUB PLANTING DETAIL
(NOT - TO - SCALE)

GENERAL NOTES :

- ALL AREAS DISTURBED & NEWLY GRADED SHALL BE SODED ON SLOPES 3:1 OR STEEPER, AND SEEDED ON ALL OTHER AREAS. IF SEEDING & SODDING CANNOT BE ACCOMPLISHED DURING CONSTRUCTION PERIOD (LIKE WINTER), PROVISIONS SHALL BE MADE TO PROTECT DISTURBED AREAS WITH ANCHORED MULCH, OR, JUTE MESH.
- ALL PLANT SPECIMENS SHALL BE NURSERY GROWN & IN GOOD HEALTH & QUALITY.
- LEGEND:
 ○ PLANTING INCL. IN PHASE - A CONSTRUCTION
 ⊙ PLANTING INCL. IN PHASE - B CONSTRUCTION



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

DIVISION OF LAND USE
 ZONING ADMINISTRATION
 HOWARD COUNTY
 DATE 11-4-85

OWNER / DEVELOPER
 BETHEL PRESBYTERIAN CHURCH
 2411 BLYTHEVILLE ROAD
 PHOENIX, MD 21151
 ATTN: DR. DAVID SHANGHAI CHO (CHAIRMAN)
 BUILDING PROJECT COMMITTEE

REV.	DATE	REVISIONS	BY
1	11/16/85	ADDED WHITE PINES PER SDP REVIEW COMMENTS	

BETHEL PRESBYTERIAN CHURCH
 ARCHITECTS PLANNERS
DESIGNTECH - EAST
 CONSULTANTS - WASHINGTON, D.C.

SHEET TITLE: **LANDSCAPE PLANTING PLAN**
 SCALE: 1" = 40'
 DATE: 11-14-85
 CHECKED: [Signature]
 APPROVED: [Signature]
 DRAWING NO. **C-6**