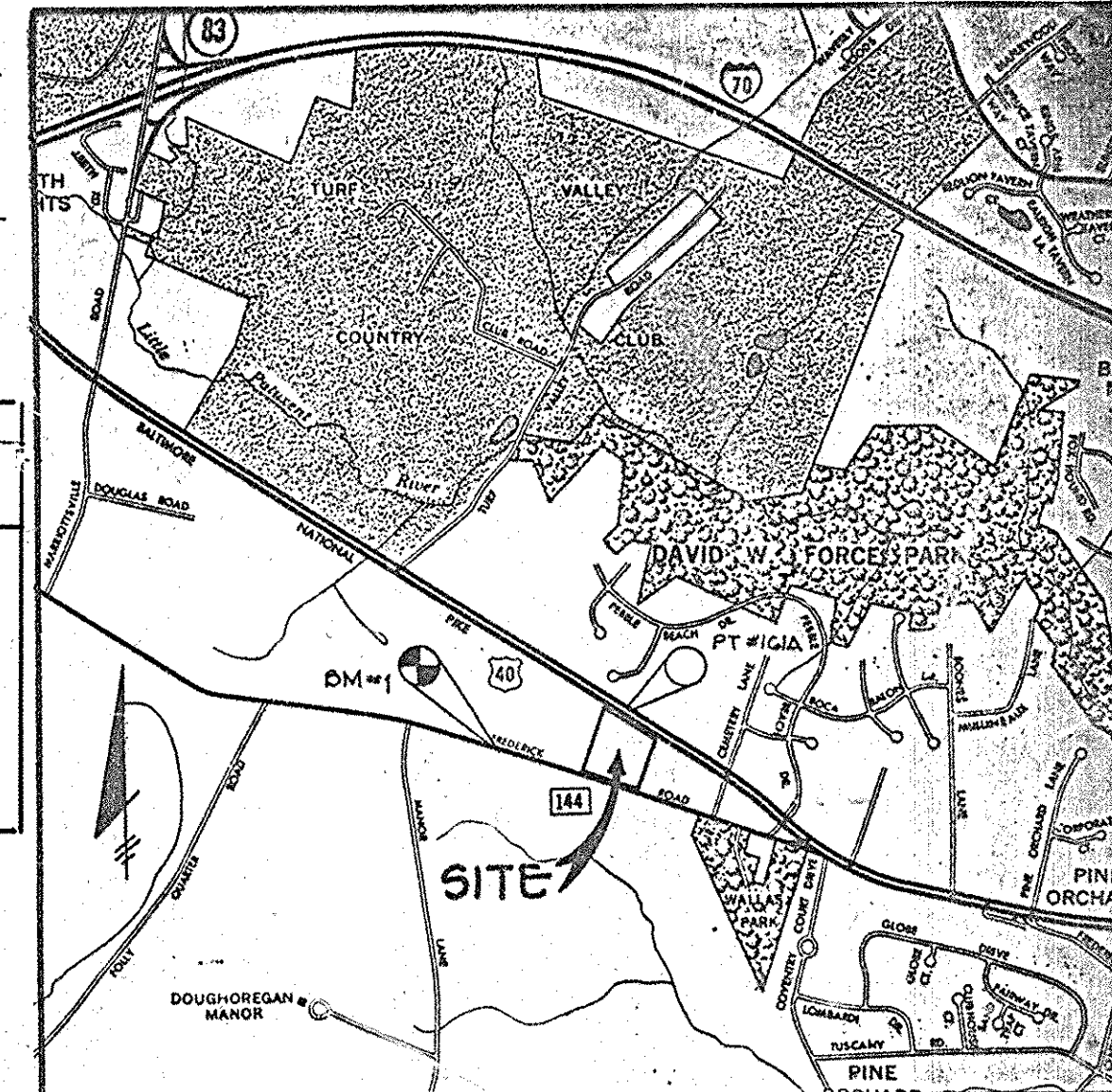


SITE ANALYSIS

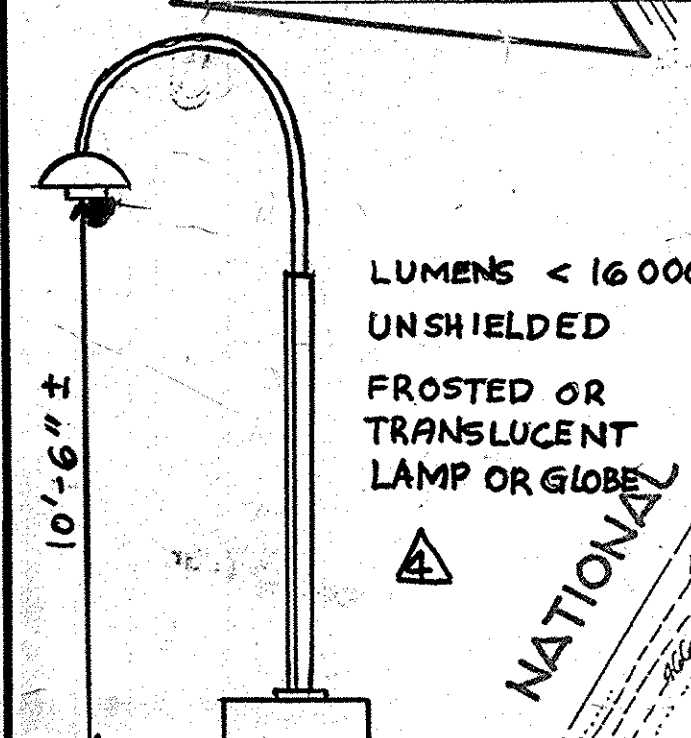
AREA OF PARCEL.....395,781.80 SF; 9.0859 AC.
 AREA OF PHASE 1.....4.0859 AC.
 PRESENT ZONING.....R-20
 BA 92-45E
 PROPOSED USE.....ASSEMBLY FOR WORSHIP
 FLOOR SPACE, PHASE 1... (LEVELS 1 & 2).....19,600 SF
 SPECIFIC USE: LOWER LEVEL-FINISHED = 9,600 SF
 UPPER LEVEL: WORSHIP CENTER = 3,975 SF; SUNDAY NURSERY = 450 SF
 SUN. PRE-SCHOOL = 100 SF; SUN. MIDDLE = 450 SF; SUN. JUNIORS = 250 SF
 SUN. MIDDLE SCHOOL = 250 SF; SUN. HIGH SCHOOL = 250 SF; SUN. COLLEGE = 250 SF
 SUN. ADULT = 250 SF; OFFICES = 100 SF; COMP. ROOM = 300 SF; STAIR
 WELLS, STORM, ENTRANCE & NOSES = 2655 SF. TOTAL = 19,600 SF
 NUMBER OF PARKING SPACES REQUIRED, PHASE 1.....115
 (MAX 945 SEATS IN ASSEMBLY AREA @ 1/3 SEATS)
 NUMBER OF PARKING SPACES PROVIDED, PHASE 1.....122
 INCLUDES 5 HANDICAP SPACES
 GREEN SPACE TO REMAIN ON SITE, PHASE 1.....7.75 AC
 PERCENT OF NET AREA.....85.1 %
 BUILDING COVERAGE OF SITE.....0.225 AC
 PERCENT OF GROSS AREA.....2.5 %

No	INDEX OF SHEETS	TITLE
1	SITE PLAN	
2	DRAINAGE AREA MAP/ PROFILES & DETAILS	
3	NOTES & DETAILS	
4	SEDIMENT & EROSION CONTROL PLAN	
5	SEDIMENT & EROSION CONTROL NOTES & DETAILS	
6	DETAILS	
7	LANDSCAPE PLAN	

BENCHMARK #1 EL. 480.77
 RAILROAD SPIKE IN B.G. E. POLE #23031, NORTH SIDE OF RTE. 144, 2255' W. OF CEMETERY LANE.
 H.C. TRAVERSE STA. 1G1A
 N 589,500.388
 E 1,346,949.506



REVISION #6
 9/8/2014 ADD 4,350 SF WALKING PATH
 SIGNED AND SEALED FOR ADDITION OF WALKING PATH
 VALLEY ASSOCIATES
 STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 2014
 SEP 9/16/15



DETAIL LOW INTENSITY LIGHTING (No Scale)

Revised locations of Proposed Lighting
 INDICATES PROPOSED LOCATION OF LIGHTING

- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSMA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/DIVISION OF CONSTRUCTION INSPECTION AT (410) 919-1870 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
 - TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ALL PLAN DIMENSIONS ARE TO THE FACE OF CURBS UNLESS OTHERWISE NOTED.
 - EXISTING AND PROPOSED CONTOURS ARE AT 2-FOOT INTERVALS AND WERE DERIVED FROM A FIELD RUN SURVEY BY TRACY ENGINEERING, INC., FEBRUARY 1993.
 - HORIZONTAL AND VERTICAL DATUM BASED UPON THE MARYLAND STATE GRID SYSTEM (1983).
 - WATER AND SEWER SERVICE TO BE PROVIDED VIA PUBLIC WATER (CONTRACT 44-1311) AND PUBLIC SEWER (CAPITAL PROJECT 5-6197).
 - THERE IS NO 100-YEAR FLOODPLAIN ON THIS SITE. HYDROLOGY FOR THE 100-YEAR STORM TO THE EXISTING 36-INCH CULVERT AT MD. RTE 144 DEVELOPED BY TRACY ENGINEERING, INC..
 - STORMWATER MANAGEMENT PROVIDED FOR QUANTITY AND QUALITY CONTROL THROUGH AN EXTENDED DETENTION FACILITY AND SHALL BE PRIVATELY OWNED AND MAINTAINED.
 - WETLANDS STUDY BY MARY A. DIRCKS, APRIL 1992. APPROVED BY H.C.
 - EXISTING WATERMAIN LOCATED BY SURFACE ELEMENTS (VALVES & HYDRANTS); OTHER EXISTING UTILITIES SHOWN PER WATER DRAWINGS (44-1311).
 - TRAFFIC DATA COMPILED BY DARRELL HOCKSTRA. APPROVED BY H.C.

STORMWATER MANAGEMENT FACILITY SUMMARY TABLE

DRAINAGE AREA TO FACILITY.....	18.33 AC.
ALLOWABLE RELEASE RATE (cfs).....	2 YR 10 YR 100 YR
PHASE 1 COMPUTED INFLOW TO FACILITY (cfs).....	4.91 15.95 43.31
DISCHARGE FROM FACILITY (cfs).....	1.68 9.84 30.59
DISCHARGE ELEVATION.....	444.5 445.2 445.9
DISCHARGE STORAGE VOLUME (ac ft).....	0.35 0.52 0.77
HAZARD CLASS.....	"A"

SIGNED AND SEALED FOR ADDITION OF SITE LIGHTING LOCATIONS ONLY

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 2014
 7/15/00
 4/14/00

- 12/19/95 ADD HANDICAP PAD; RELOC. 1 HDCP SPACE
- 4/12/00 ADD LOW INTENSITY LIGHTING
- 8/28/00 Revised Location of Lighting
- 7/3/95 ADDED ENTRANCE CANOPY
- 11/22/95 ADDED LOOP DRIVE; REDUCED WALK WIDTH; ADJUST ENTR. LOC'S.; RELOC. 1 HDCP SPACE; ADD 8 PARKING SPACES.

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

STATE OF MARYLAND
 REGISTERED PROFESSIONAL ENGINEER
 2014
 JAMES K. TRACY

ADDRESS CHART

PARCEL	STREET ADDRESS				
55					
SUBDIVISION	SECT./AREA	PARCEL NO.			
L/F	BLOCK	ZONED	TAX/ZONING MAP	ELECTION DISTRICT	CENSUS TRACT
	2844/497	R-20	1G	24P	
WATER CODE	SEWER CODE				
J01	5893400				

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

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR _____ DATE 4/8/04
 CHIEF, BUREAU OF ENGINEERING _____ DATE 4/8/04

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 DIRECTOR _____ DATE 4/15/04
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH _____ DATE 4/15/04

NO.	DATE	PER COUNTY COMMENTS	REVISION
11/22/93		PER COUNTY COMMENTS	
0/31/93		PER COUNTY COMMENTS	

TRACY ENGINEERING, inc.
 Land Development Planning and Engineering
 701 BOX 26251 • BALTIMORE, MARYLAND 21210
 (410) 243-8320

OWNER: ELLICOTT CITY ASSEMBLY OF GOD
 c/o RICHARD BRADFORD PASTOR
 5011 CENTER DRIVE
 ELLICOTT CITY, MARYLAND 21043
 2844/497

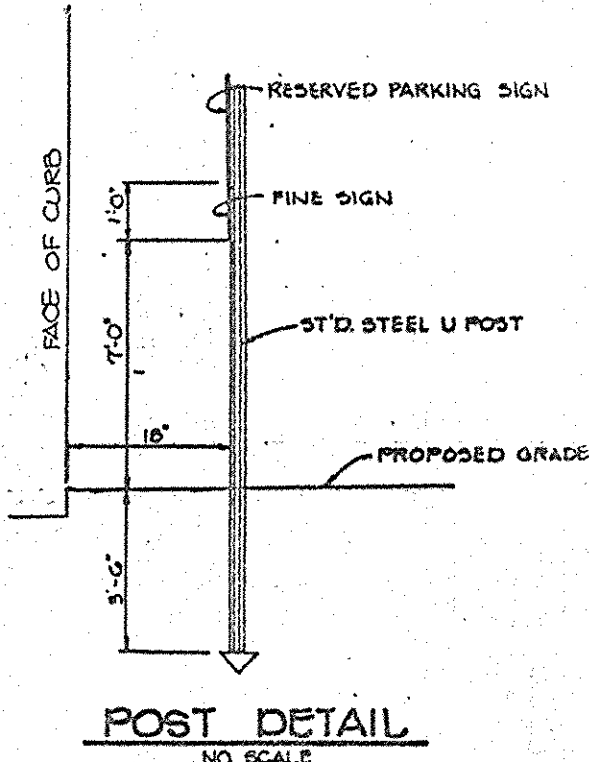
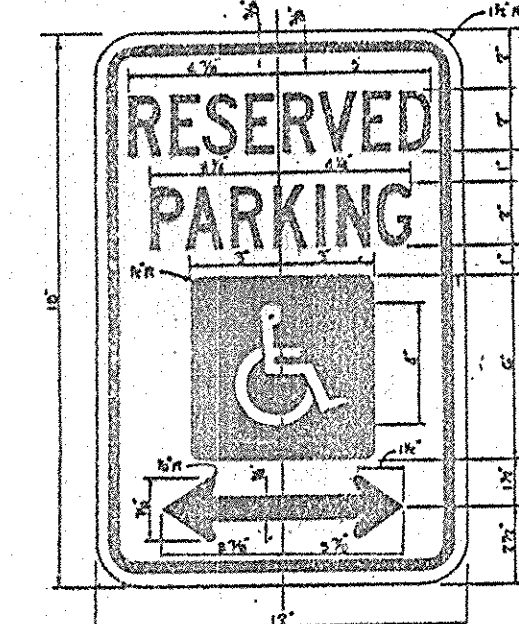
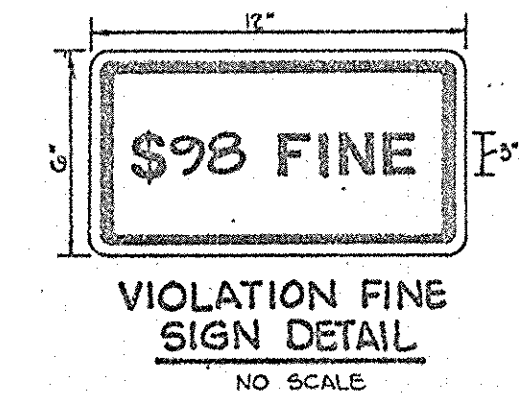
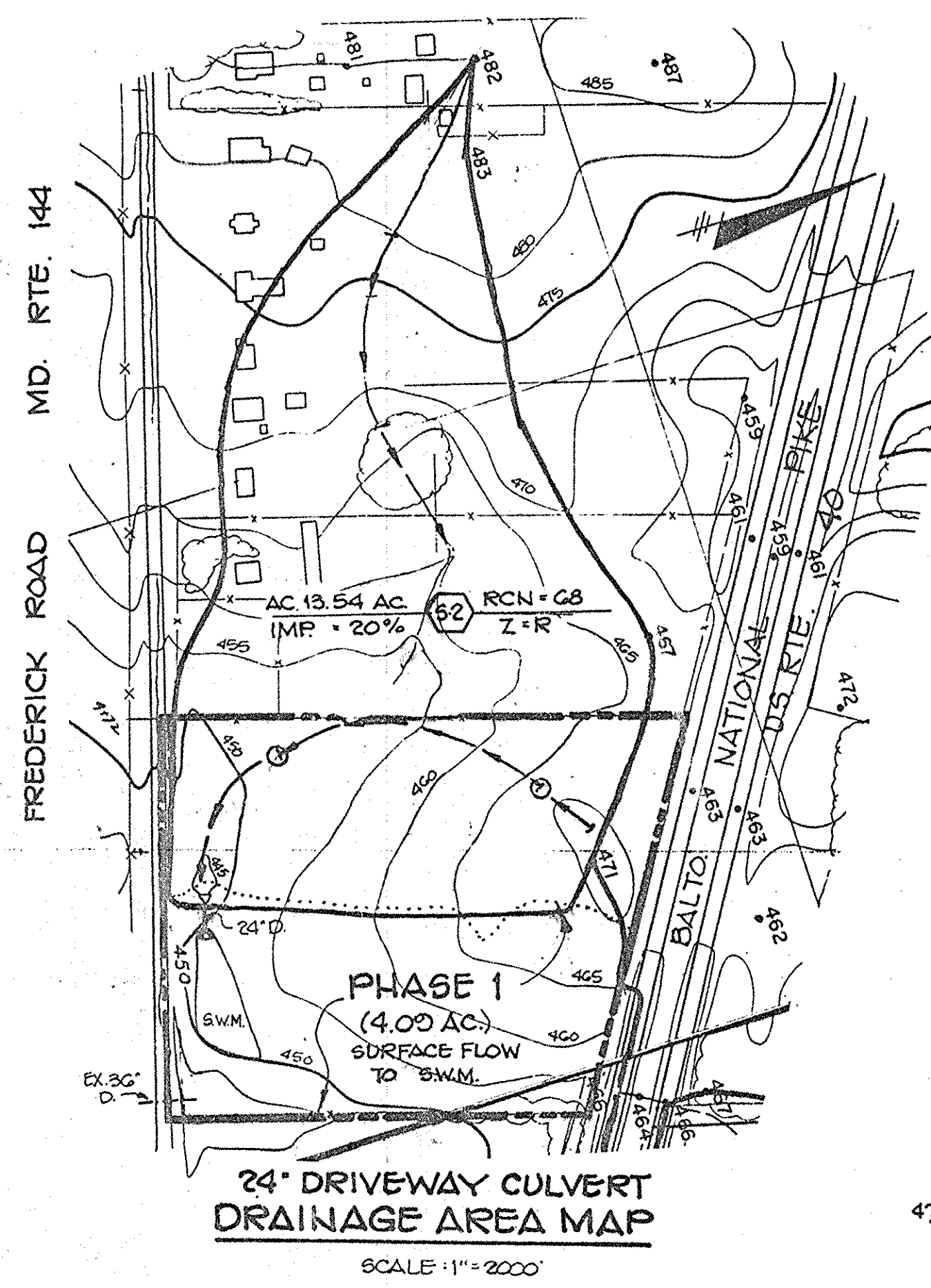
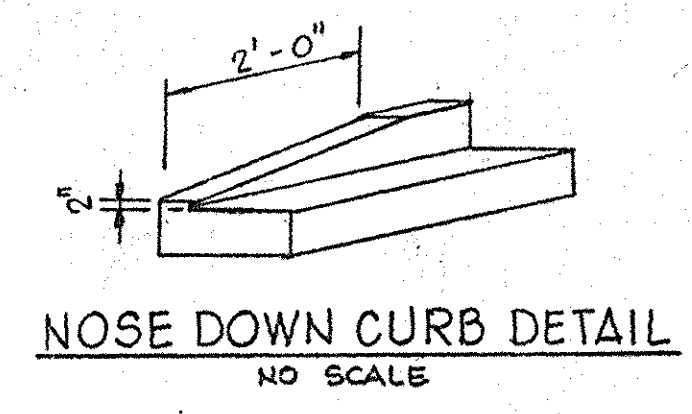
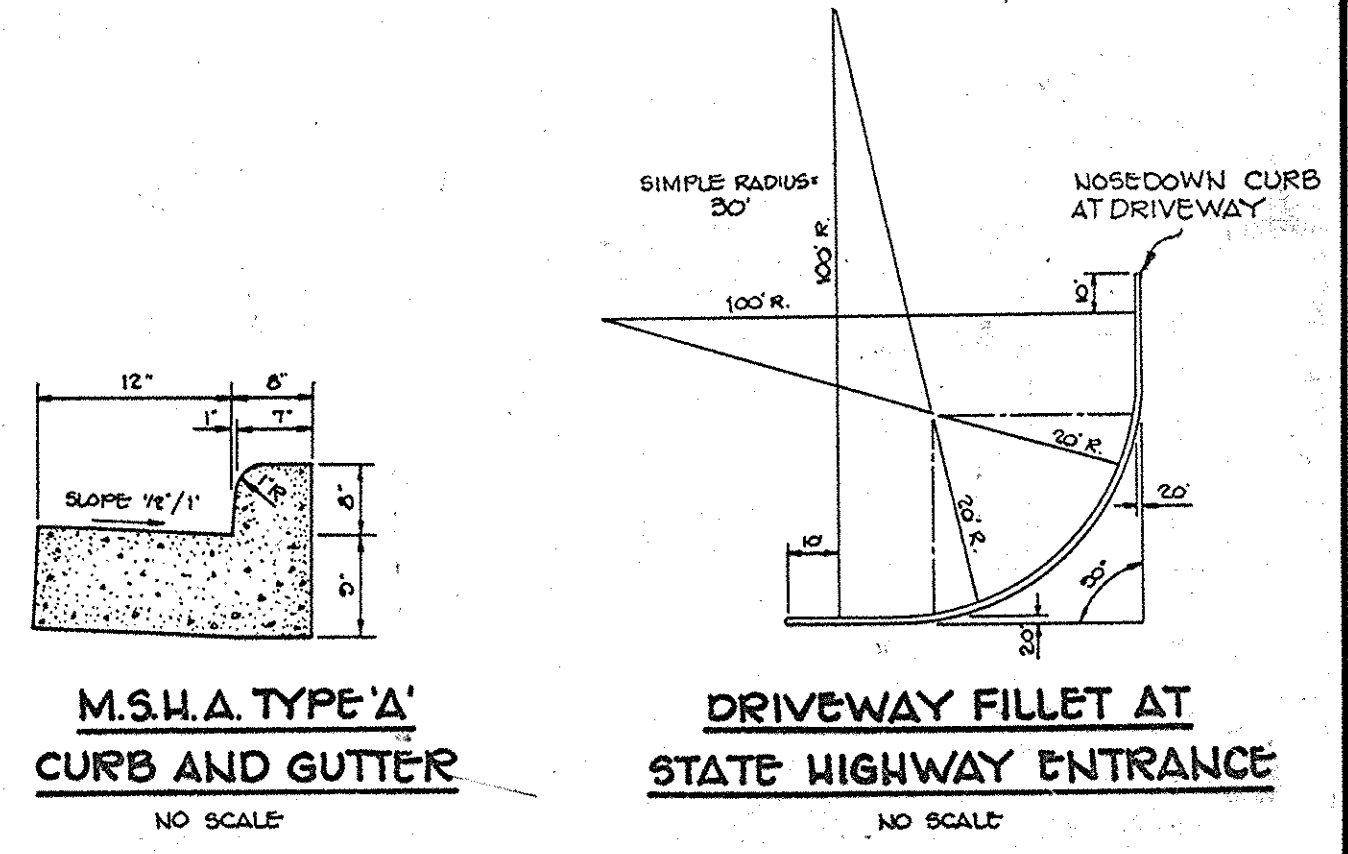
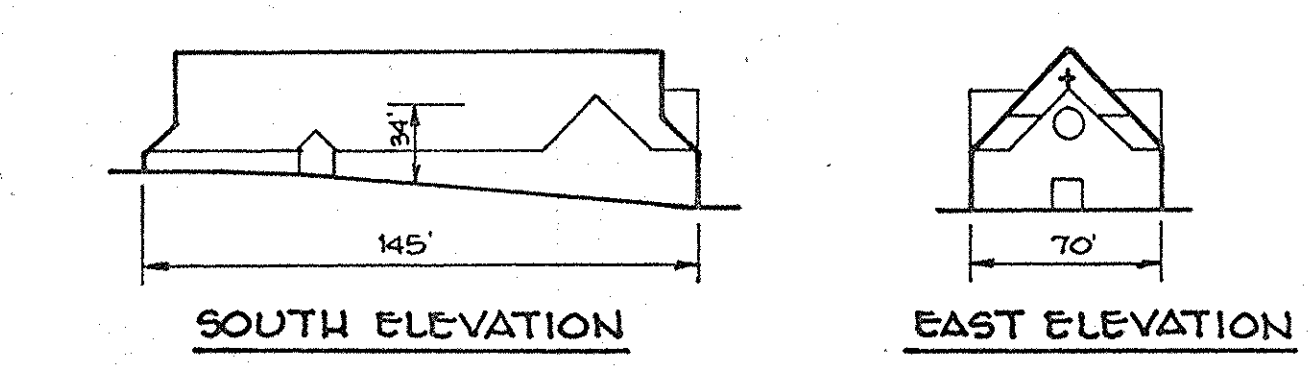
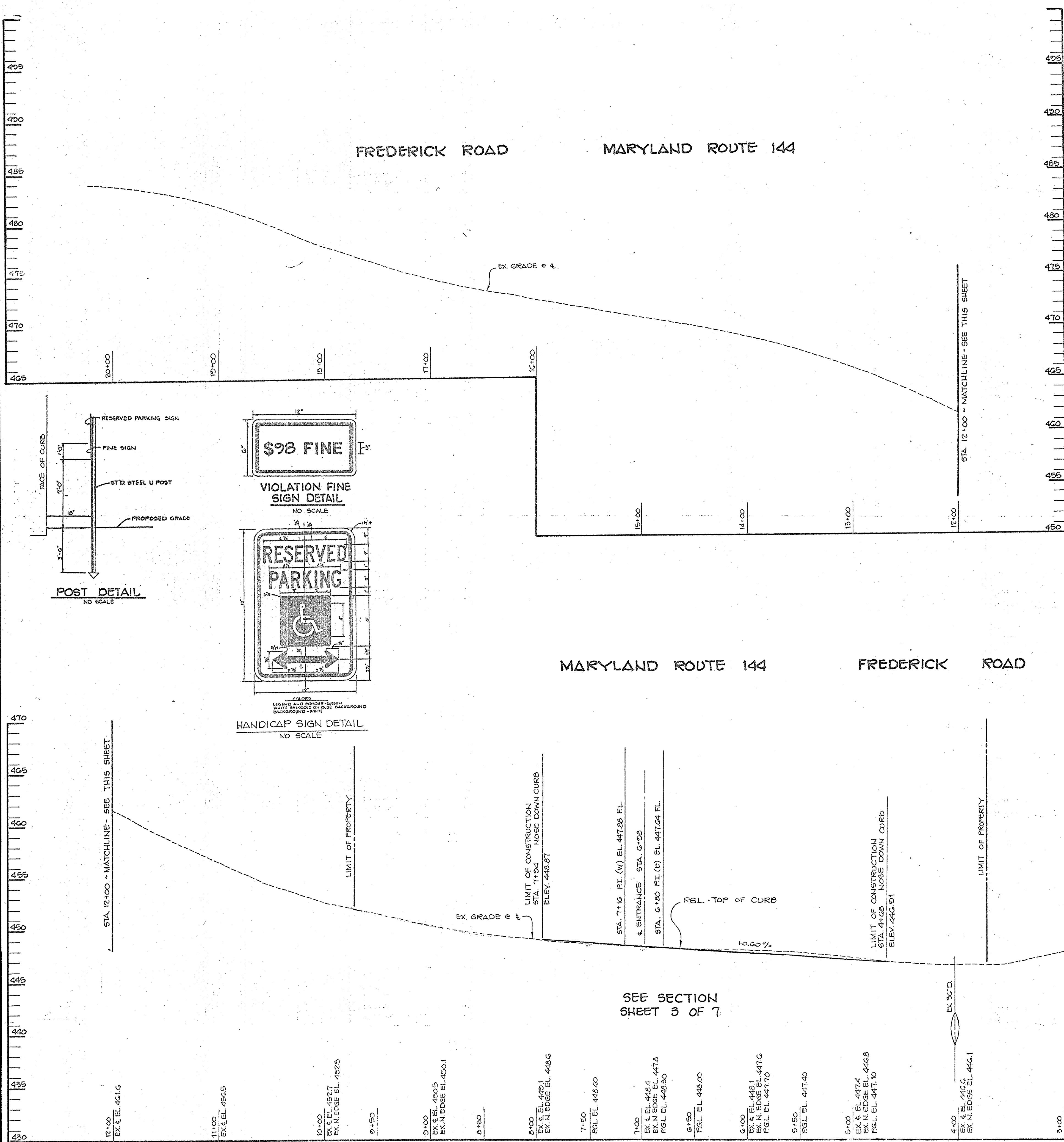
PROJECT BA 92-45E
ELLICOTT CITY ASSEMBLY OF GOD
 PHASE 1
 RELIGIOUS FACILITY

LOCATION: TAX MAP 16, P.55 GRID 24
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **SITE PLAN**

DES. JKT	DRWN. CDT	CHKD. JKT	SCALE: 1" = 40'

PROJECT: 031/SDP 24-05 DATE: MAY 1993 DRAWING: 1 OF 7



MARYLAND ROUTE 144 FREDERICK ROAD

SEE SECTION SHEET 3 OF 7

SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.			
COUNTY HEALTH OFFICER	DATE		
APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.			
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS			
DIRECTOR	DATE		
CHIEF, BUREAU OF ENGINEERING	DATE		
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING			
DIRECTOR	DATE		
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH	DATE		
NO.	DATE	PER COUNTY COMMENTS	REVISION
	11/22/93	PER COUNTY COMMENTS	
	8/31/93	PER COUNTY COMMENTS	

TRACY
ENGINEERING, inc.
Land Development Planning and Engineering

P.O. BOX 26251 · BALTIMORE, MARYLAND 21210
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OWNER
ELLCOTT CITY ASSEMBLY OF GOD
% RICHARD BRADFORD PASTOR
3011 CENTER DRIVE
ELLCOTT CITY, MARYLAND 21043
2844/497

PROJECT BA 92-45E
ELLCOTT CITY ASSEMBLY OF GOD
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RELIGIOUS FACILITY

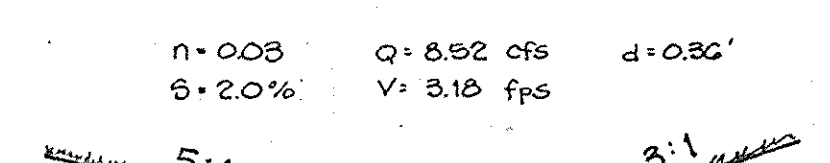
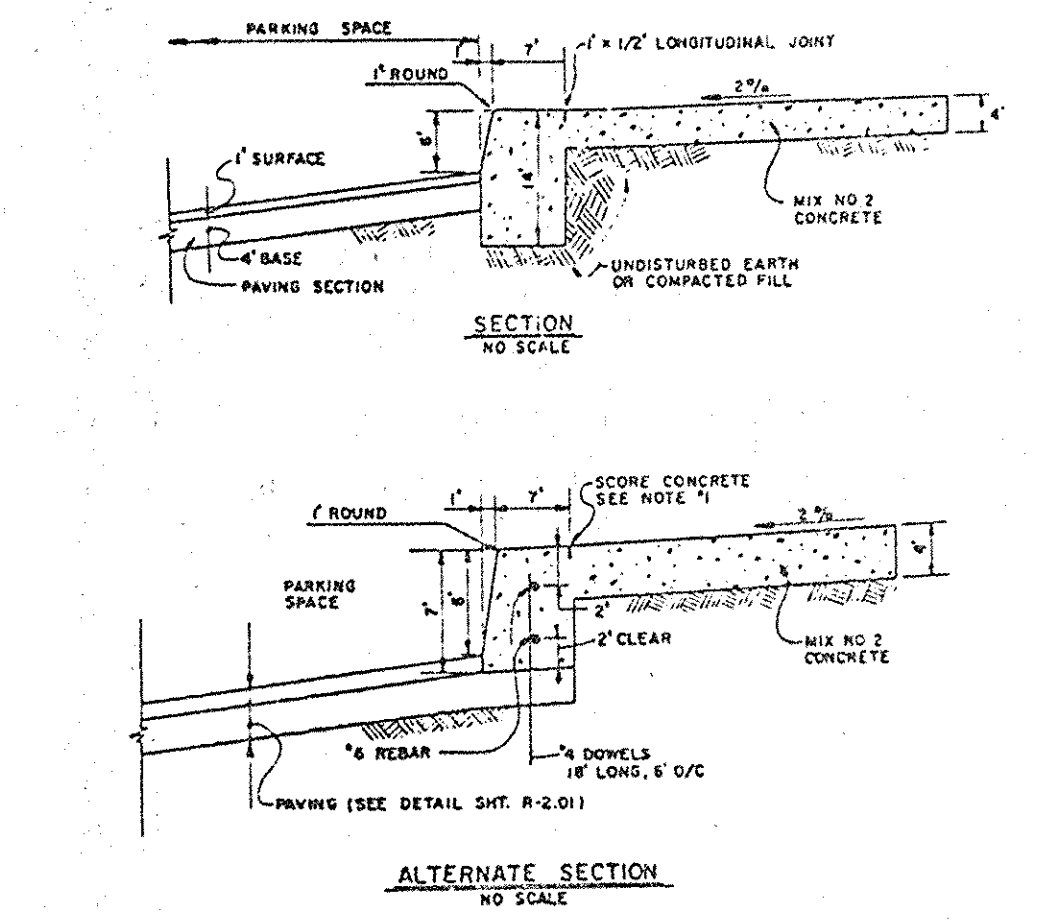
LOCATION
PARCEL E5
TAX MAP 1G, GRID 24
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
DRAINAGE AREA MAP
PROFILES AND DETAILS

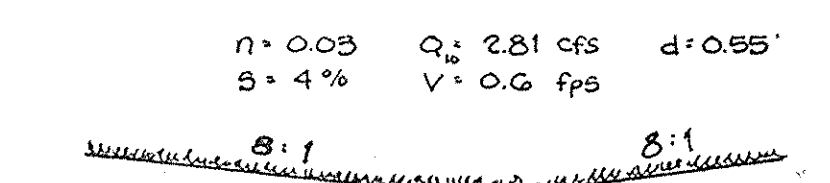
DES: JKT	DRWN: CDT	CHKD: JKT	SCALE: AS SHOWN
PROJECT: 031/50P 04-05	DATE: MAY, 1993	DRAWING 2 OF 7	

NO.	DESCRIPTION	INV. IN	INV. OUT	TOP EL.	REMARKS
S-1	MODIFIED PRE-CAST HR INLET	441.98	441.82	446.43	HC SD-4.38
E-1	27" RCCP END SECT.	441.62	--	--	HC SD-5.51
E-2	24" AL-CMP END SECT.	443.00	--	--	HC SD-5.61
E-3	24" AL-CMP END SECT.	--	443.17	--	HC SD-5.61

- NOTES**
- LONGITUDINAL JOINT BETWEEN SIDEWALK AND CURB SHALL BE CONTINUOUS AND TO A DEPTH OF 1/2" THE SIDEWALK THICKNESS OR 1" MAX. LATITUDINAL JOINTS SHALL RUN FROM BACK EDGE OF SIDEWALK, CONTINUOUS TO THE BOTTOM FACE OF CURB TO A DEPTH OF 1/4" AND SPACED 2' APART.
 - PROVIDE 1/2" EXPANSION JOINTS AT 15' INTERVALS. IN LATITUDINAL JOINTS TO PROVIDE CROSS SECTION.

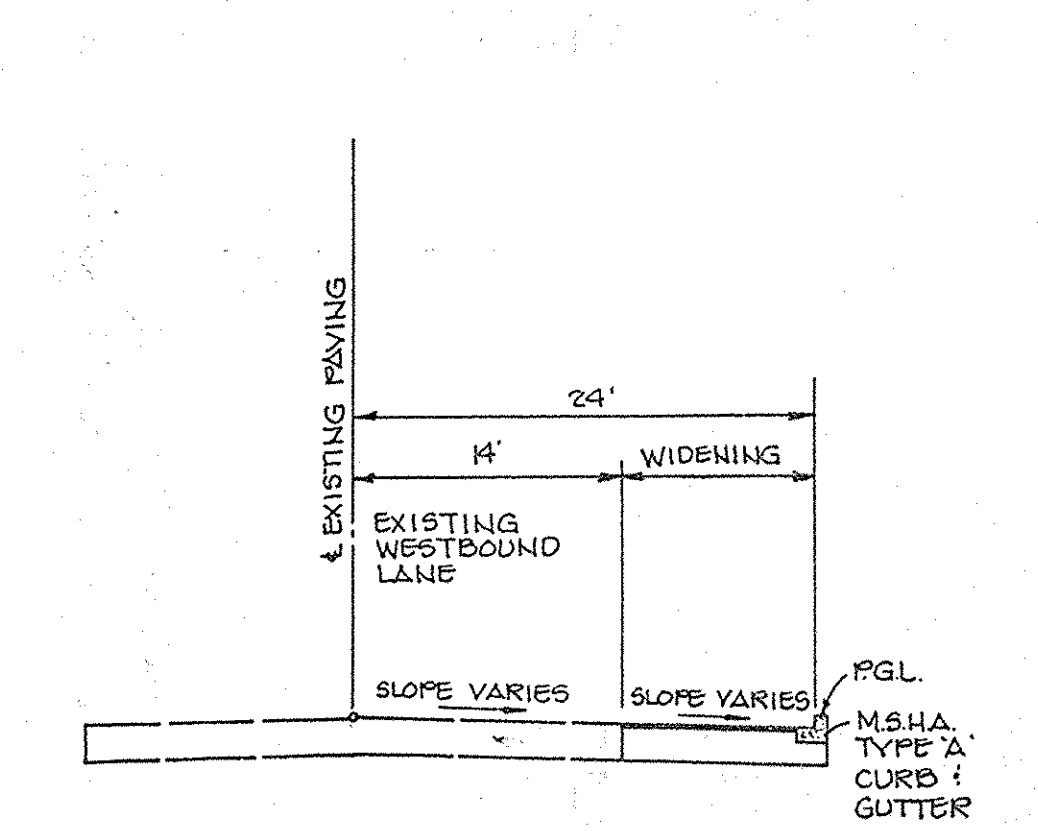


GRASSED SWALE - EAST
SCALE: 1" = 5'

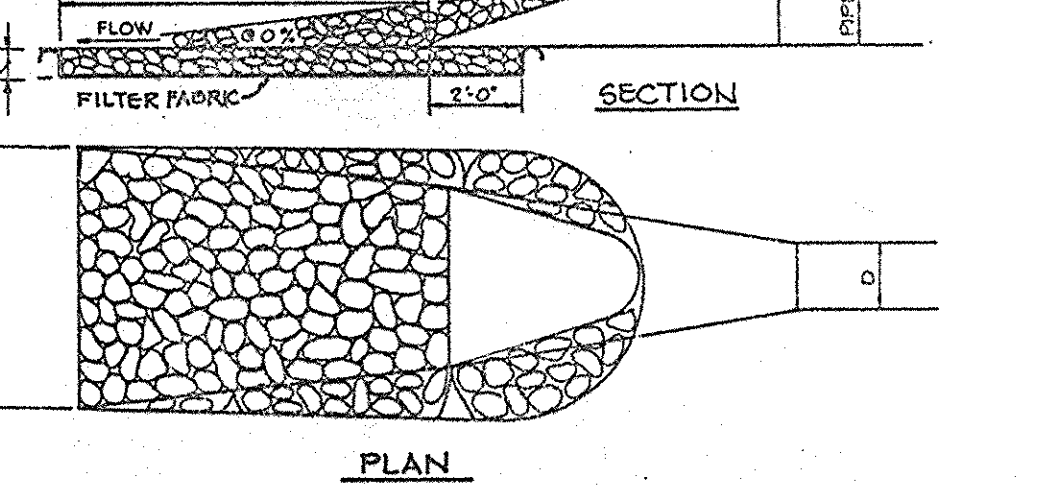


GRASSED SWALE - WEST
SCALE: 1" = 5'

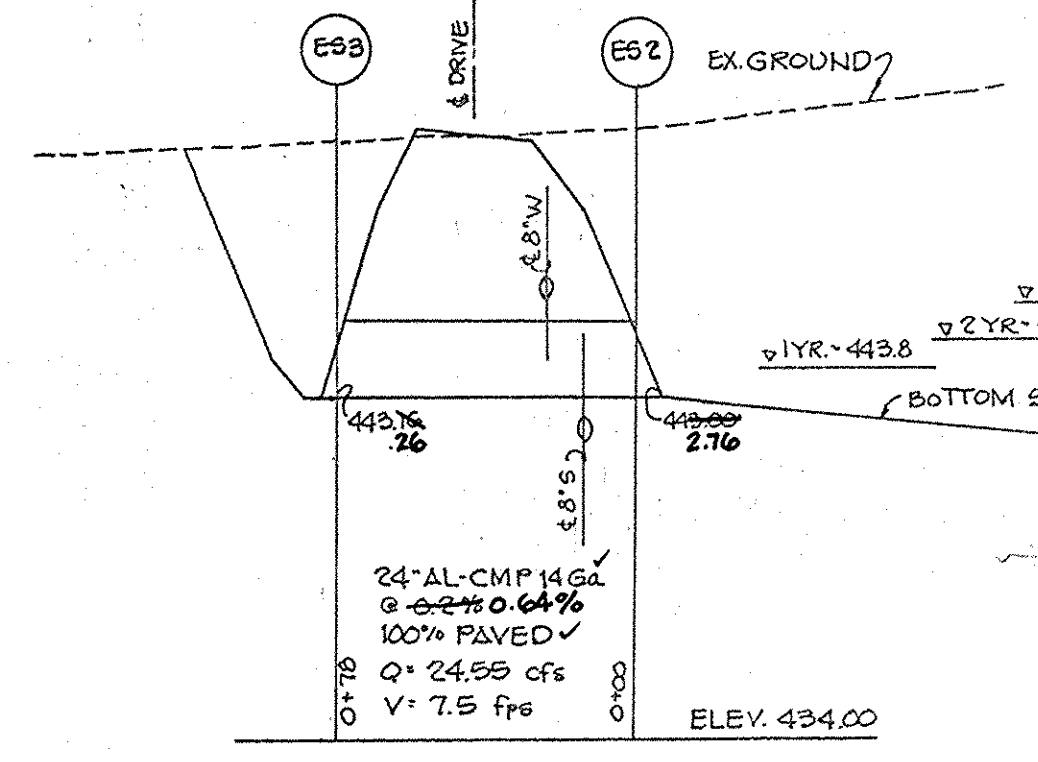
MONOLITHIC CURB & SIDEWALK PRIVATE PARKING AREA
NO SCALE



SECTION - ROUTE 144 WIDENING
SCALE: 1" = 10'



STRUCTURE	d - 50	LENGTH (L)	WIDTH (W)	THICKNESS (T)	* WIDTH OF OUTFALL CHANNEL
ES-1	6"	11'	6.0"	6"	
ES-2	6"	10'	6.2"	6"	



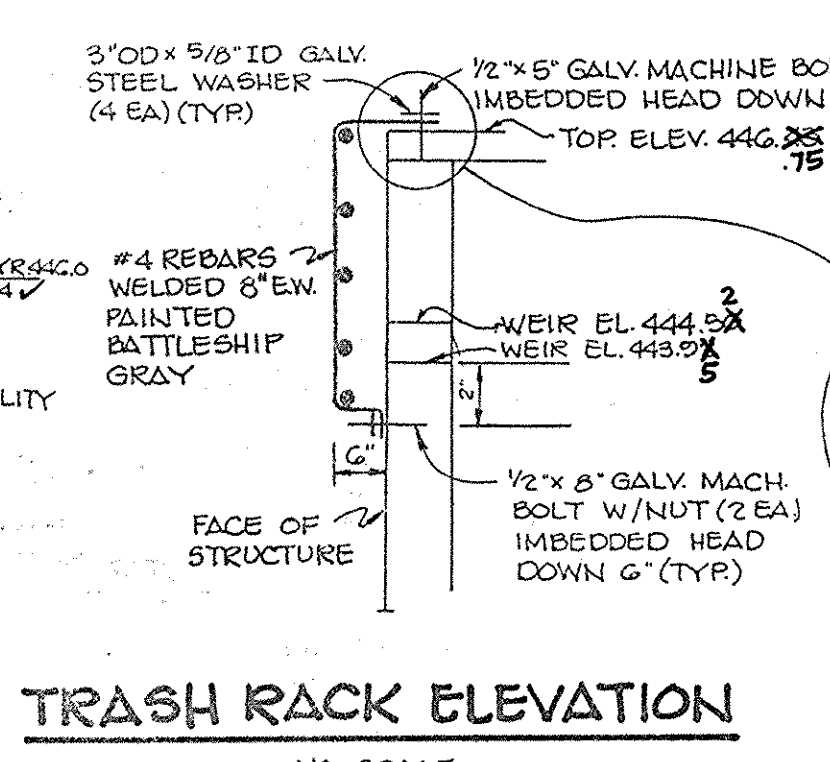
DRIVEWAY DRAIN
SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'

BITUMINOUS CONCRETE SURFACE	1 1/2"
BITUMINOUS CONCRETE BASE	2"
* 5" CRUSHER RUN BASE COURSE OR 4" DENSE GRADED STABILIZED AGGREGATE BASE COURSE	5"
(ALTERNATE)	
BITUMINOUS CONCRETE SURFACE	1 1/2"
BITUMINOUS CONCRETE BASE	2"

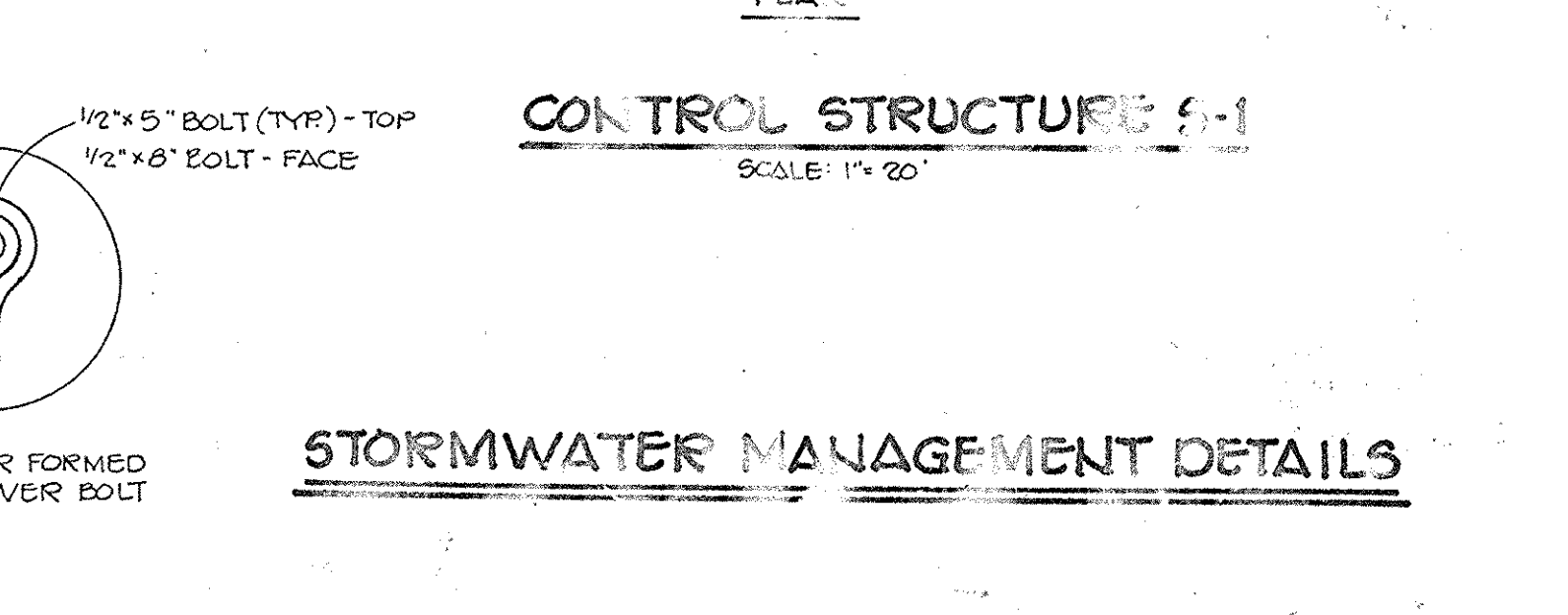
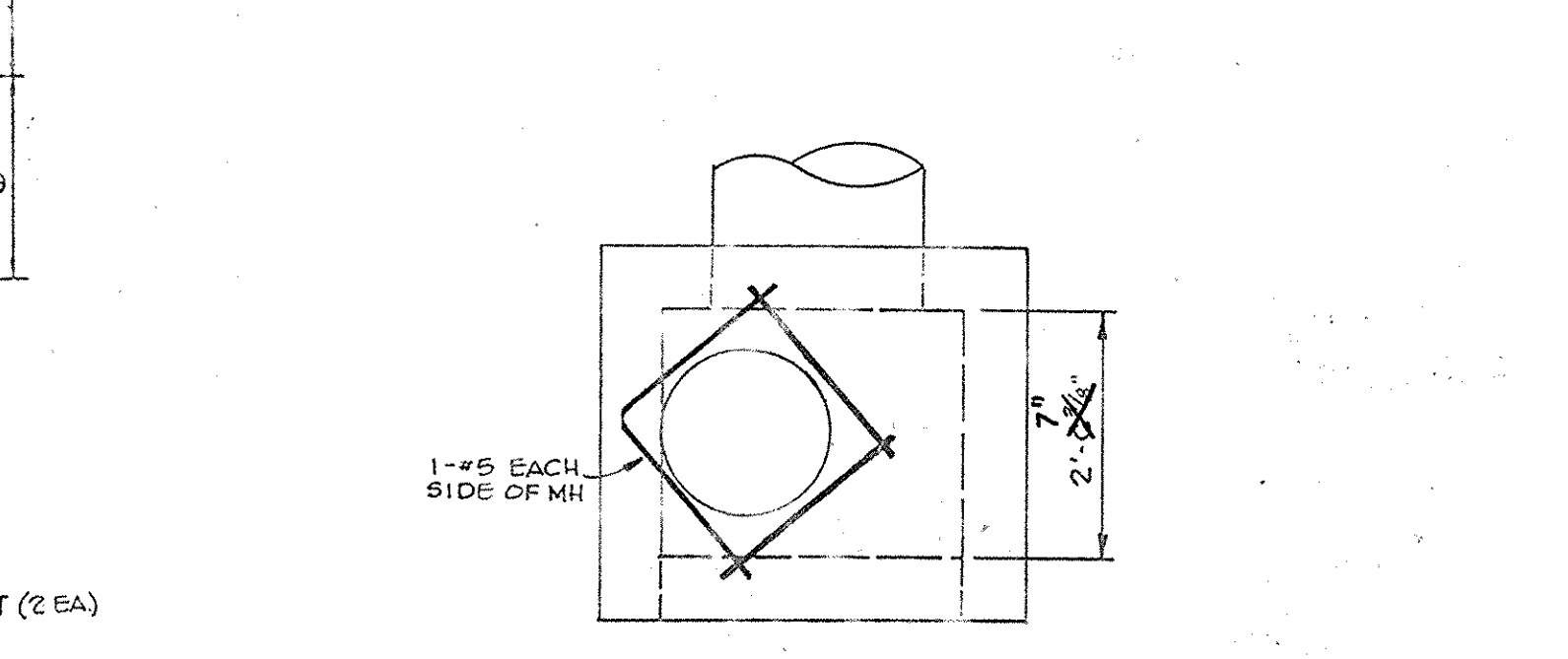
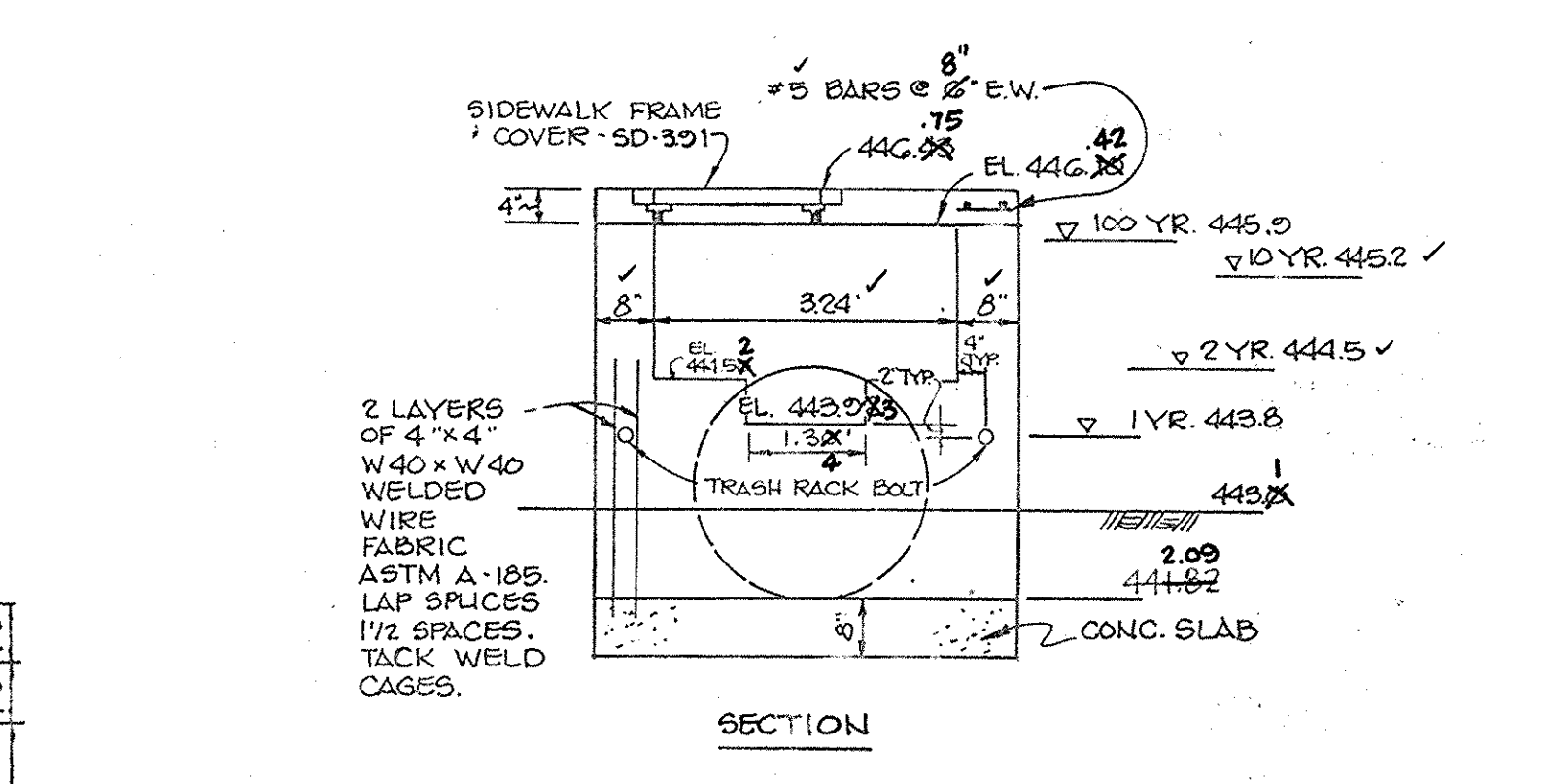
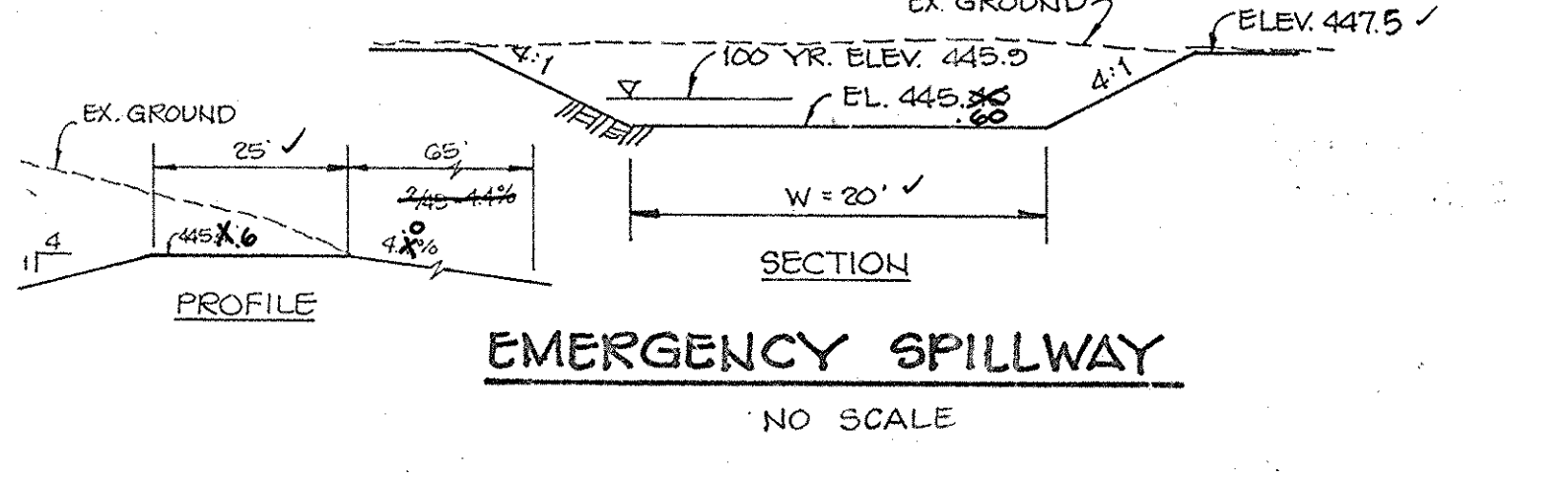
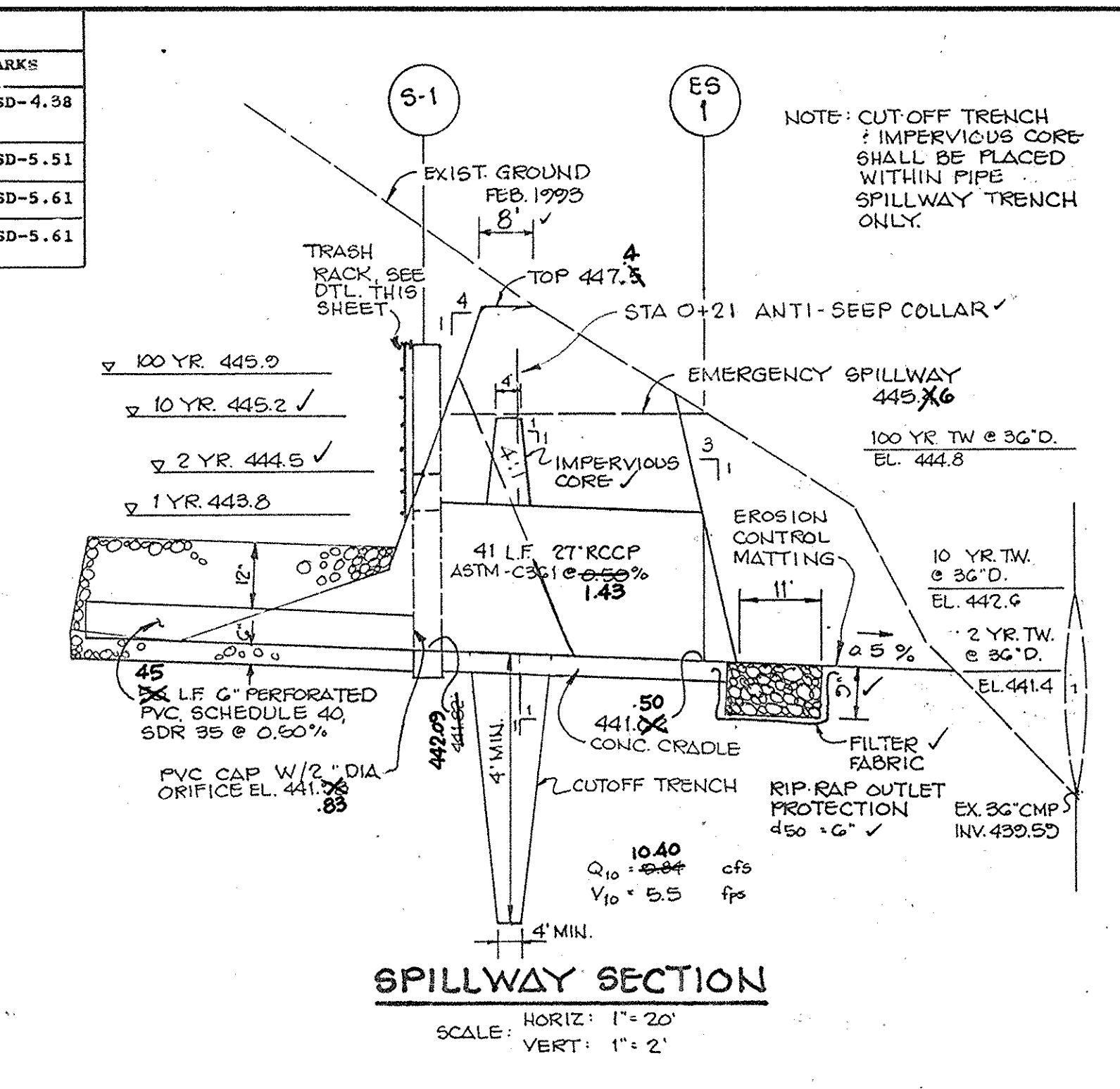
5" PAVING - P-1
NO SCALE

BITUMINOUS CONCRETE SURFACE	1 1/2"
BITUMINOUS CONCRETE BASE	2"
BITUMINOUS CONCRETE BASE	4"
GRADED AGGREGATE BASE COURSE	6"

M.S.H.A. PAVING
NO SCALE



TRASH RACK ELEVATION
NO SCALE



STORMWATER MANAGEMENT FACILITY MAINTENANCE SCHEDULE

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

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

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

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

Earth Fill

Material - The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" across and other objectionable materials. Fill material for the center of the embankment and out of trench shall be compacted to a minimum of 95% relative compaction. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

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

Compaction - The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture to be formed into a ball 8" in diameter and not so wet that water can be squeezed out.

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

Cut-off Trench - The cutoff trench shall be excavated to impervious material 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 below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or tampers to ensure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually operated compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe.

All pipes shall be circular in cross section.

Compacted Metal Pipe - All of the following criteria shall apply for compacted metal pipe:

- Material - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-100 Type A with water-tight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Mica, Plast-O-Seal, Bac-Klad, and Best-Co-Loy. Coated compacted metal pipe shall meet the requirements of AASHTO M-245 and M-246.
- Material - (Aluminum Coated Steel Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with water-tight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
- Material - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-111 with water-tight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be primed with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pitch of the surrounding soils shall be between 4 and 8.
- Coupling bands, end-seep collars, and 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.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded or bolted when the pipe and riser are metal. End-seep collars shall be connected to the pipe in such a manner so as to be completely watertight. Drainage bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be marked an adequate number of "X" marks to accommodate the band widths. The following type connections are acceptable for pipes less than 24" in diameter: flanges on both ends of the pipe, a 1 1/2" wide standard lap type band with 1/2" wide by 3/8" thick closed end circular

Stormwater Management Facility Maintenance Schedule

STRUCTURAL MAINTENANCE
SLOPES, EMERGENCY SPILLWAY, RISER STRUCTURE, DOWATERING DEVICE & SPILLWAY PIPE WILL BE INSPECTED ANNUALLY FOR EROSION, SEDIMENT AND/OR DEBRIS BLOCKAGE, LEAKAGE, CLEANING AND/OR REPAIR WILL BE PERFORMED AS NECESSARY.

AESTHETIC MAINTENANCE
NORTH SLOPE WILL BE MOWED AT REGULAR INTERVALS WHEN THE OTHER GRASSED AREAS ON THE SITE ARE MAINTAINED (3-4 WEEKS DURING THE LATE SPRING, SUMMER & EARLY FALL). BOTTOM WILL BE MOWED W/ THE NORTH SLOPE. TRASH WILL NOT BE ALLOWED TO ACCUMULATE.

* INSPECTIONS AND MAINTENANCE WILL BE MADE AT MORE FREQUENT INTERVALS IF WARRANTED BY THE APPEARANCE OF FACILITY.

By The Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Richard B. Bunker 6.25.93
DEVELOPER: RICHARD B. BRADFORD DATE

BY THE ENGINEER:

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

James K. Tracy, P.E. 6.22.93
ENGINEER: JAMES K. TRACY, P.E. DATE

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

Patricia Engh 6.5.94
U.S. SOIL CONSERVATION SERVICE DATE

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

Robert W. Zickow, P.E. 3-31-94
APPROVED HOWARD SOIL CONSERVATION DISTRICT DATE

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

COUNTY HEALTH DEPARTMENT DATE

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James J. Hoover 4/8/94
DIRECTOR DATE

Paul D. Seaman 4/8/94
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

James S. Butler 4/15/94
DIRECTOR DATE

Jim Trimmey 4/15/94
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

NO.	DATE	REVISION
11/27/93	PER COUNTY COMMENTS	
8/31/93	PER COUNTY COMMENTS	

TRACY ENGINEERING, inc.
Land Development Planning and Engineering

11000 WOODBURN ROAD
BALTIMORE, MARYLAND 21286
(410) 245-8920

OWNER: ELLICOTT CITY ASSEMBLY OF GOD
% RICHARD BRADFORD, PASTOR
3011 CENTER DRIVE
ELLICOTT CITY, MARYLAND 21043
2044/427

PROJECT: EA 92-45E
ELLICOTT CITY ASSEMBLY OF GOD
PHASE 1
RELIGIOUS FACILITY

LOCATION: PARCEL 85
TAX MAP 10, GRID 24
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE: **NOTES & DETAILS**

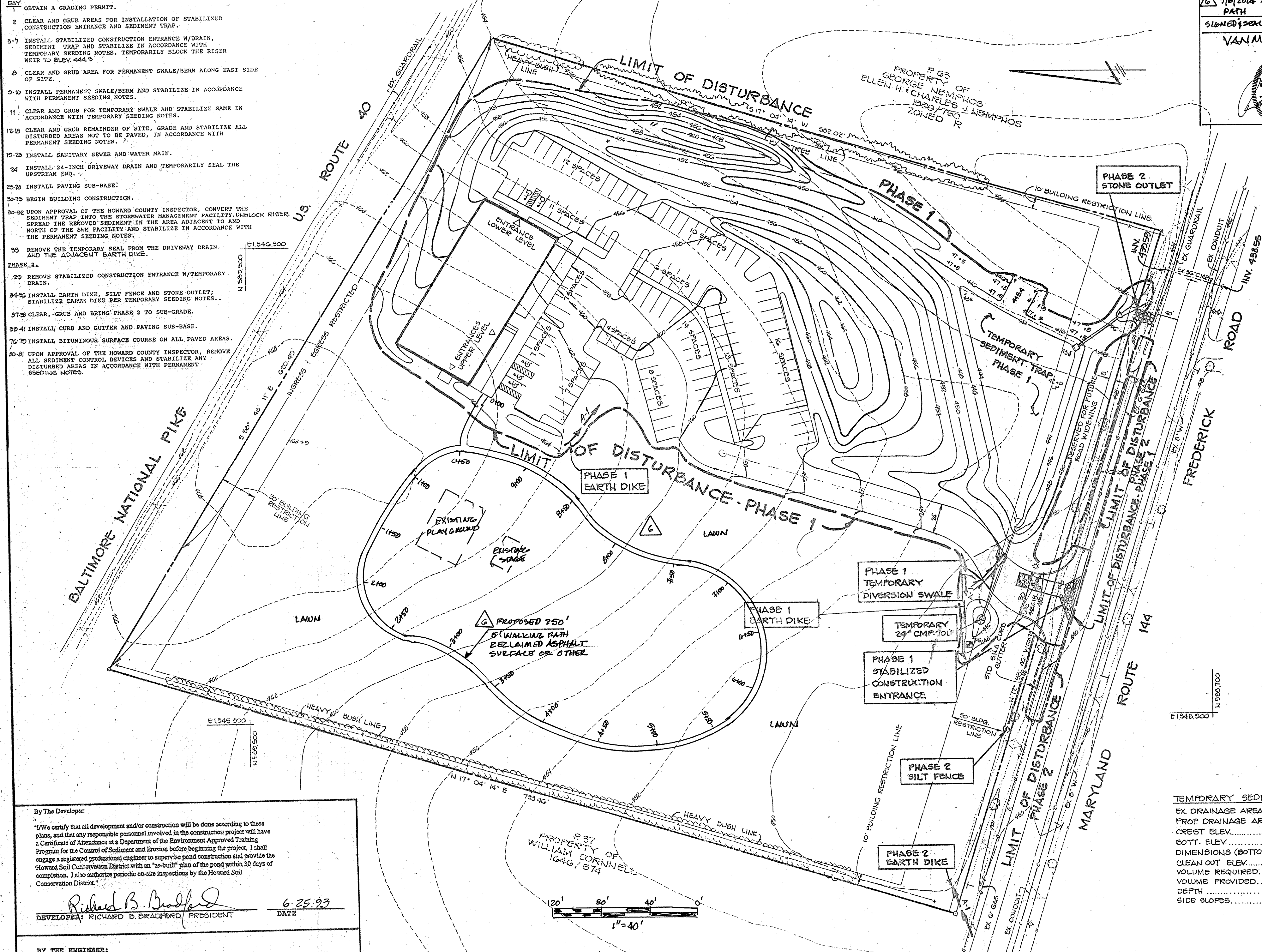
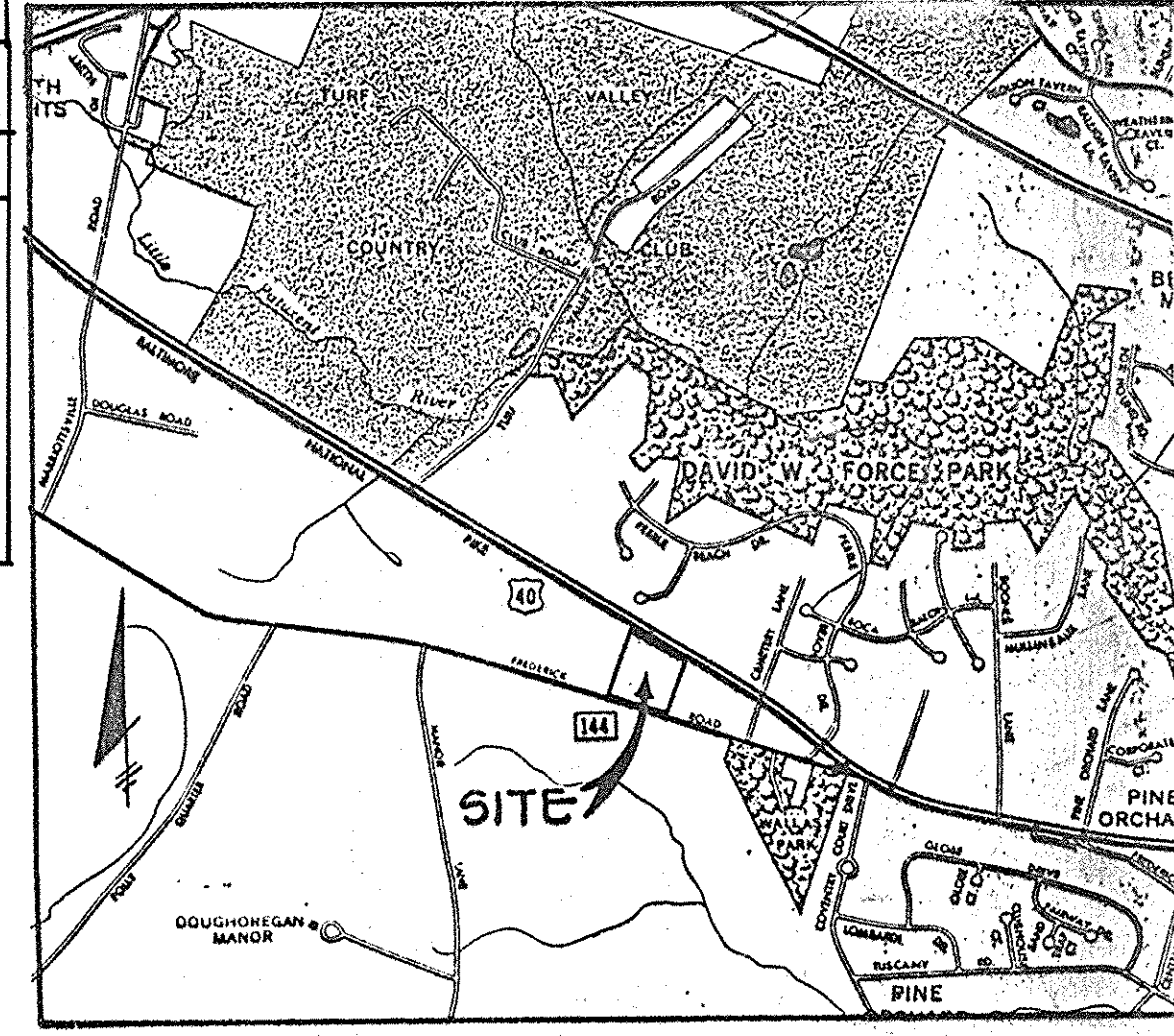
DES: JKT	DRWN: COT	CHKD: JKT	SCALE: AS SHOWN
PROJECT: 031/BDP 24-05	DATE: MAY, 1993	DRAWING: 3 OF 7	

SWM 'AS-BUILT' 10-8-96
SDP 94-05

SEQUENCE OF CONSTRUCTION

- PHASE 1.**
- 1 OBTAIN A GRADING PERMIT.
 - 2 CLEAR AND GRUB AREAS FOR INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT TRAP.
 - 3-7 INSTALL STABILIZED CONSTRUCTION ENTRANCE W/ DRAIN, SEDIMENT TRAP AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES. TEMPORARILY BLOCK THE RISER WEIR TO ELEV. 444.5
 - 8 CLEAR AND GRUB AREA FOR PERMANENT SWALE/BERM ALONG EAST SIDE OF SITE.
 - 9-10 INSTALL PERMANENT SWALE/BERM AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
 - 11 CLEAR AND GRUB FOR TEMPORARY SWALE AND STABILIZE SAME IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
 - 12-13 CLEAR AND GRUB REMAINDER OF SITE, GRADE AND STABILIZE ALL DISTURBED AREAS NOT TO BE PAVED, IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
 - 14-15 INSTALL SANITARY SEWER AND WATER MAIN.
 - 16-17 INSTALL 24-INCH DRIVEWAY DRAIN AND TEMPORARILY SEAL THE UPSTREAM END.
 - 18-19 INSTALL PAVING SUB-BASE.
 - 20-25 BEGIN BUILDING CONSTRUCTION.
 - 26-27 UPON APPROVAL OF THE HOWARD COUNTY INSPECTOR, CONVERT THE SEDIMENT TRAP INTO THE STORMWATER MANAGEMENT FACILITY. UNBLOCK RISER. SPREAD THE REMOVED SEDIMENT IN THE AREA ADJACENT TO AND NORTH OF THE SWM FACILITY AND STABILIZE IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES.
 - 28 REMOVE THE TEMPORARY SEAL FROM THE DRIVEWAY DRAIN AND THE ADJACENT EARTH DIKE.
- PHASE 2.**
- 29 REMOVE STABILIZED CONSTRUCTION ENTRANCE W/ TEMPORARY DRAIN.
 - 30-32 INSTALL EARTH DIKE, SILT FENCE AND STONE OUTLET; STABILIZE EARTH DIKE PER TEMPORARY SEEDING NOTES.
 - 33-34 CLEAR, GRUB AND BRING PHASE 2 TO SUB-GRADE.
 - 35-41 INSTALL CURB AND GUTTER AND PAVING SUB-BASE.
 - 42-43 INSTALL BITUMINOUS SURFACE COURSE ON ALL PAVED AREAS.
 - 44-45 UPON APPROVAL OF THE HOWARD COUNTY INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE ANY DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

REVISION # 6
 9/10/2014 ADD 4,750 SF WALKING PATH
 SIGNED & SEALED FOR ADDITION OF WALKING PATH
 VAN MAR ASSOCIATES
 STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 9/10/2014
 04991865



VICINITY MAP
 SCALE: 1"=200'

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 4/10/94
 CHIEF, BUREAU OF ENGINEERING DATE: 4/6/94
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

DIRECTOR: [Signature] DATE: 4/13/94
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE: 4/15/94

THESE PLANS HAVE BEEN REVIEWED BY THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
 U.S. SOIL CONSERVATION SERVICE
 APPROVED: [Signature] DATE: 3/31/94

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 HOWARD SOIL CONSERVATION DISTRICT
 APPROVED: [Signature] DATE: 3-31-94

NO.	DATE	REVISION
11/22/93		PER COUNTY COMMENTS
8/31/93		PER COUNTY COMMENTS

TRACY
 ENGINEERING, inc.
 Land Development Planning and Engineering
 P.O. BOX 26251 • BALTIMORE, MARYLAND 21210
 (410) 243-8320
 [Professional Engineer Seal]

OWNER: ELLICOTT CITY ASSEMBLY OF GOD
 68 RICHARD BRADFORD PASTOR
 3011 CENTER DRIVE
 ELLICOTT CITY, MARYLAND 21043
 2844/437
 (410) 461-1273

PROJECT: BA 92-49E
 ELLICOTT CITY ASSEMBLY OF GOD
 PHASE 1
 RELIGIOUS FACILITY
 LOCATION: TAX MAP 1G, P55, GRID 24
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: **SEDIMENT CONTROL PLAN**

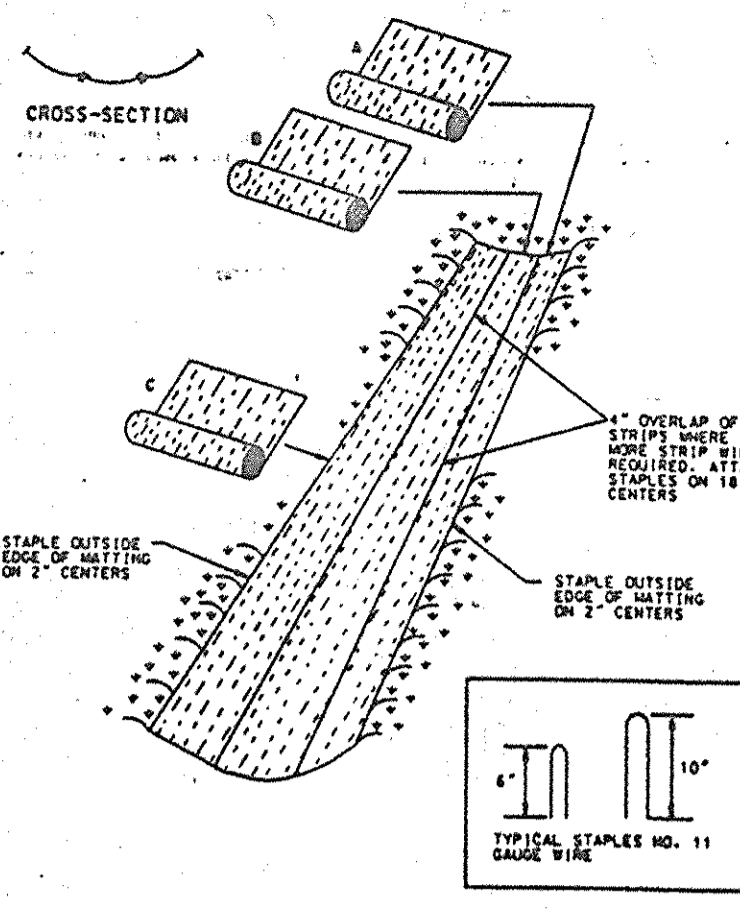
DES: JKT	DRWN: CDT	CHKD: JKT	SCALE: 1"=40'
PROJECT: 031/SDP 94-03	DATE: MAY 1993	DRAWING: 4 OF 7	

By The Developer:
 "I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."
 [Signature] DATE: 6-25-93
 DEVELOPER: RICHARD B. BRADFORD, PRESIDENT

BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
 [Signature] DATE: 6-22-93
 ENGINEER: JAMES K. TRACY, P.E.

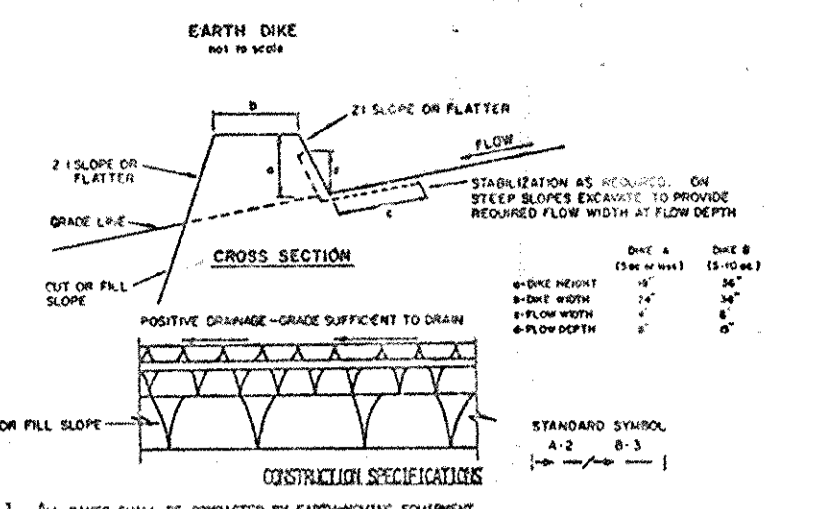
PHASE 1, LIMIT OF DISTURBANCE
 PHASE 2, LIMIT OF DISTURBANCE
 WALKING PATH NOTE
 1. LIMITS OF DISTURBANCE IS 4,750 SF AND THE LOD IMMEDIATELY SURROUNDS THE PROPOSED WALKING PATH.
 2. CONSTRUCTION OF PATH SHALL FOLLOW EXISTING GRADE. CONSTRUCTION GRADIENTS (DISTURBANCE) SHALL BE LIMITED TO ONE DAY OF GRADING AND PLACEMENT OF RECLAIMED ASPHALT SURFACE OVER DISTURBED AREA.

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



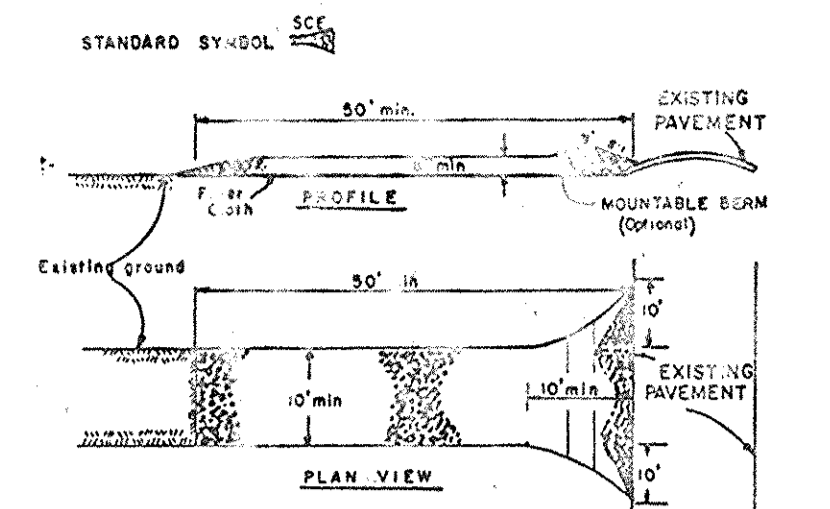
- Construction Specifications**
- Begin the matting by placing the top ends of the matting in a narrow trench, 4" in depth. Backfill the trench and force matting to conform to the channel cross-section. Secure with a row of staples about 4" down slope from the trench. Space between staples is 6".
 - Staple the 4" overlap in the channel center using an 18" spacing between staples.
 - Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
 - Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
 - Where one roll of matting ends and another begins, the end of the top strip shall overlap the lower end of the lower strip by 4", sniplap fashion. Reinforce the overlap with a double row of staples spaced 6" apart in a staggered pattern on either side.
 - The drainage area of the matting liner should be similarly secured at the 2' double row of staples.
 - Note: If flow will enter from the slope of the matting then the area affected by the flow must be kept-in.

EROSION CONTROL MATTING
NO SCALE

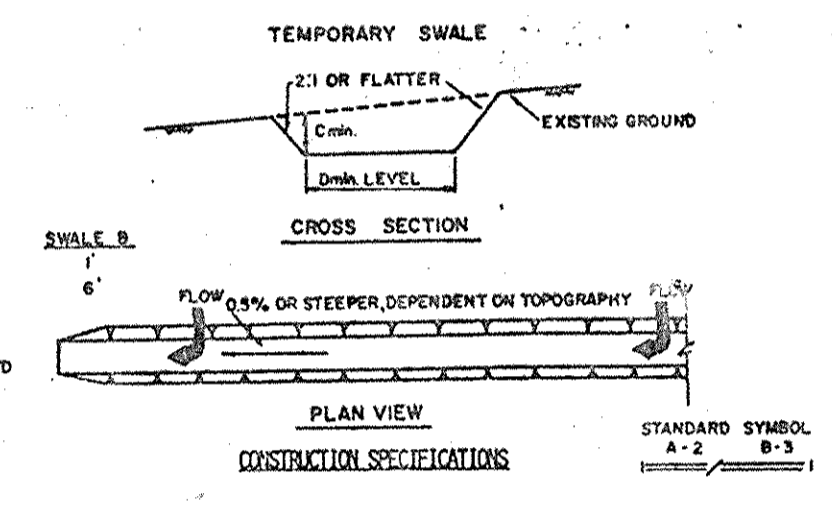


- CONSTRUCTION SPECIFICATIONS**
- All dikes shall be compacted by earthmoving equipment.
 - All dikes shall have positive drainage to an outlet.
 - OF HIGHWAY OR NEAR BY HIGHWAY SHALL BE PLACED TO FACILITATE POSITIVE DRAINAGE TO AN OUTLET.
 - EXISTING VEGETATION SHALL BE REMOVED AND REPLACED WITH A STABILIZED SOIL MIXTURE AS NECESSARY TO UTILIZE A STABILIZED SOIL MIXTURE.
 - EXISTING VEGETATION SHALL BE REMOVED AND REPLACED WITH A STABILIZED SOIL MIXTURE AS NECESSARY TO UTILIZE A STABILIZED SOIL MIXTURE.
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 - EXISTING VEGETATION SHALL BE REMOVED AND REPLACED WITH A STABILIZED SOIL MIXTURE AS NECESSARY TO UTILIZE A STABILIZED SOIL MIXTURE.

EARTH DIKE
NO SCALE



STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

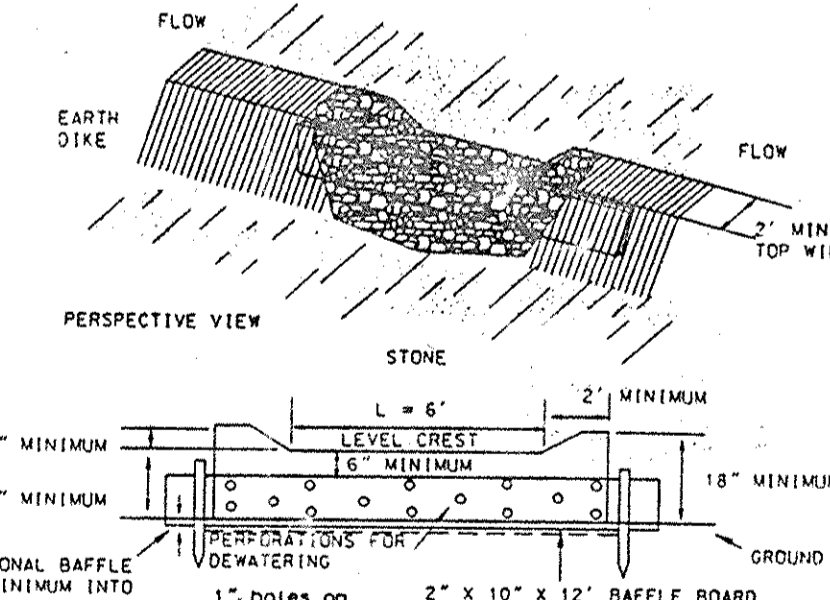


- CONSTRUCTION SPECIFICATIONS**
- All temporary swales shall have uninterrupted positive grade to an outlet.
 - Diverted runoff from a disturbed area shall be conveyed to a sediment trapping device.
 - Diverted runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area at nonerosive velocity.
 - All trees, brush, stumps, obstructions, and other questionable material shall be removed and disposed of so as not to interfere with the proper functioning of the swale.
 - The swale shall be dewatered or swept to line, graded, and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
 - Fills shall be compacted by earth moving equipment.
 - All earth removal and not needed construction shall be placed so that it will not interfere with the functioning of the swale.
 - Stabilization shall be as per the chart below:

TEMPORARY SWALE
NO SCALE

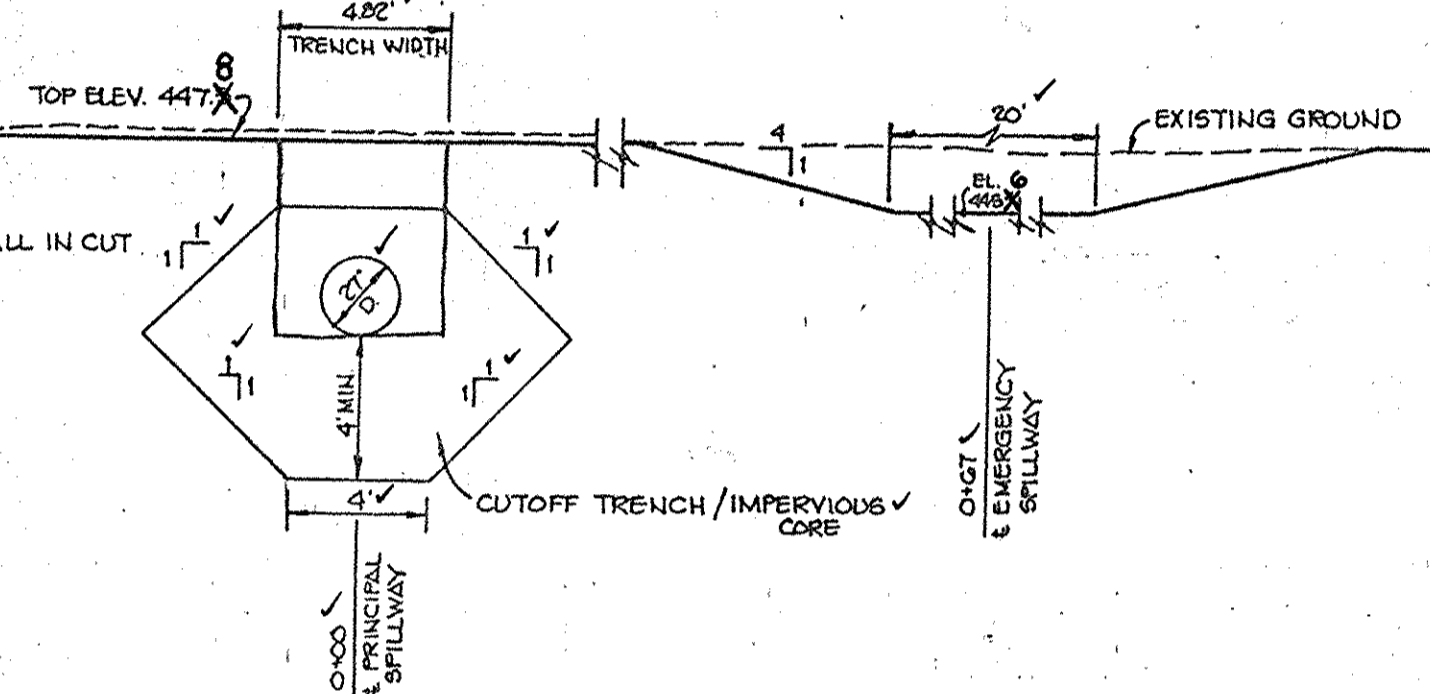
- SOIL FUNCTION SPECIFICATIONS**
- Stone Size - 2" or 2 1/2" stone, or retained or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than 18" (18" inches).
 - Width - Not less than 18" (18" inches), 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 entrance shall be piped across the entrance. If piping is impractical, a reasonable barrier with 1/2" slope will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or deposit of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and shall include the use of measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Warning - Signs shall be placed to warn adjacent prior to entrance onto public rights-of-way. When warning 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.

SILT FENCE
NOT TO SCALE

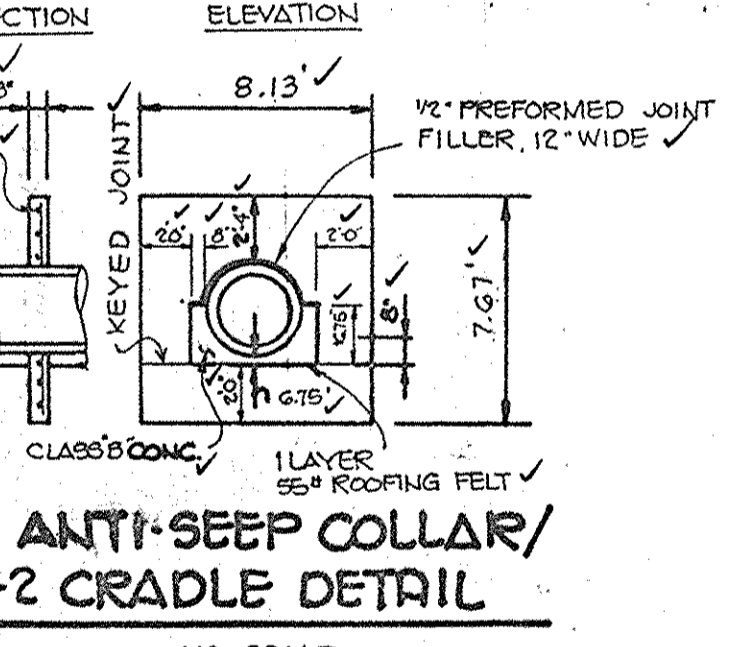


- CONSTRUCTION SPECIFICATIONS FOR PERMANENT SILT FENCE**
- When silt fence is in place, it shall be maintained in a condition which will prevent tracking or deposit of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and shall include the use of measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Warning - Signs shall be placed to warn adjacent prior to entrance onto public rights-of-way. When warning 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.

STONE OUTLET STRUCTURE
NO SCALE



SPILLWAY SECTION
SCALE: 1" = 5'



ANTI-SEEP COLLAR/A-2 CRADLE DETAIL
NO SCALE

STORMWATER MANAGEMENT FACILITY MAINTENANCE SCHEDULE

Preventive Maintenance shall be performed as follows:

Structural Maintenance
The slopes, Emergency Spillway, Riser Structure, dewatering device & Spillway Piping will be inspected annually for erosion, sediment and/or debris blockage, leakage. Cleaning and/or repair will be performed as necessary.

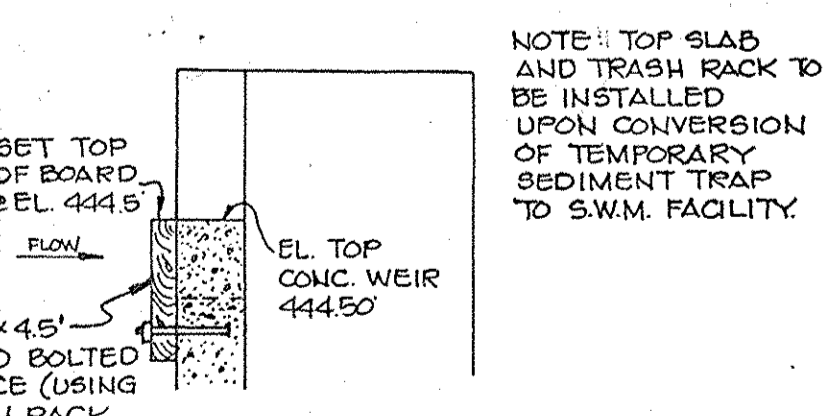
Aesthetic Maintenance
The north slope will be mowed at regular intervals when the other grassed areas on the site are maintained (3-4 weeks during the spring, summer and early fall). At this time it is not anticipated that the facility will support wetland plants, therefore the bottom will be mowed with the north slope. Trash will not be allowed to accumulate.

Inspections and maintenance will be made at more frequent intervals if warranted by the appearance of facility.

TEST PIT #	DEPTH (ft)	DESCRIPTION	TEST PIT #	DEPTH (ft)	DESCRIPTION
TP-1	0.0 - 1.3	Topsoil	TP-4	0.0 - 1.8	Brown silty topsoil
1.3 - 10.0	Gray brown, moist, micaceous silty SAND with some coarse sand (USC: (M))	1.3 - 4.0	Brown to gray, moist, micaceous SILT with some clay and sand (USC: (M))	4.0 - 10.0	Gray to brown, moist, micaceous silty SAND (USC: (M))
4.0 - 10.0	Water encountered at 8.5' Bottom of hole at 10.0' Moisture depth 8.5' at completion 7.7 after 2 hours 5.1 after 48 hours	4.0 - 10.0	Water encountered at 8.5' Bottom of hole at 10.0' Moisture depth 8.5' at completion 7.7 after 2 hours 5.1 after 48 hours	4.0 - 10.0	Water encountered at 8.5' Bottom of hole at 10.0' Moisture depth 8.5' at completion 7.7 after 2 hours 5.1 after 48 hours
10.0 - 14.0	Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface	10.0 - 14.0	Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface	10.0 - 14.0	Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface Water ponded on surface

TEST PIT SUMMARY
NOT TO SCALE

SPILLWAY OUTLET CHANNEL
NO SCALE



RISER STRUCTURE WEIR
TEMPORARY BLOCKING DETAIL
NO SCALE

- CONSTRUCTION SPECIFICATIONS FOR Stone Outlet Structure**
- Crushed stone shall be used. Gravel may be used if crushed stone is not available. The stone shall be 2-3 inches in size and washed.
 - The crest of the stone dike shall be at least 6 inches lower than the lowest elevation of the top of the earth dike and shall be level.
 - The stone outlet structure shall be embedded into the soil a minimum of 4 inches.
 - The minimum length of the crest of the stone outlet structure shall be 6 feet.
 - The stone outlet structure shall be inspected after each rain. Stone shall be replaced when the structure ceases to function as a result of construction traffic damage, silt accumulation in the stone, washout, etc.
 - The (optional) baffle board shall be extended one foot into the dike, staked and embedded 4 inches into the existing ground.
 - The drainage area to this structure shall be less than 1/2 acre.

TEMPORARY SEEDBED PREPARATION

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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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 2-1/2 BUSHELS 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 LOVERGRASS (.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 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.

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 MULCHING 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.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE RATE AND METHODS NOT COVERED.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS 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, DICES, PERMETER 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	20850 ACRES
AREA DISTURBED	3.62 ACRES
AREA TO BE ROOFED OR PAVED	1.85 ACRES
AREA TO BE VEGETATIVELY STABILIZED	2.27 ACRES
TOTAL CUT	7000 CU. YDS.
TOTAL FILL	2000 CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION	NONE
- 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.
- ALL SEDIMENT TRAPS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOLUME 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.

PERMANENT SEEDBED PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 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. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 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. 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. OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (.05 LBS./1000 SQ.FT.) OF WEEPING LOVERGRASS. 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. PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF 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 SEEDBED PREPARATION

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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

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REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE RATE AND METHODS NOT COVERED.

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR _____ DATE _____

CHIEF, BUREAU OF ENGINEERING _____ DATE _____

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Director *James R. Rutter* 4/15/98 DATE

Chief, Division of Land Development and Research *Aina J. Jarmann* 4/15/94 DATE

BY THE DEVELOPER:

"We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I shall engage a registered professional engineer to supervise pond construction and provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspections by the Howard Soil Conservation District."

Richard B. Bradford 6-25-93 DATE

DEVELOPER: RICHARD B. BRADFORD, PRESIDENT

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."

James K. Tracy 6-22-93 DATE

ENGINEER: JAMES K. TRACY, P.E.

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

APPROVED *Patricia R. K...* 6-5- DATE 2/3/94

U.S. SOIL CONSERVATION SERVICE

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

APPROVED *Robert W. Zich...* 3-31-94 DATE

HOWARD SOIL CONSERVATION DISTRICT

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

COUNTY HEALTH OFFICER _____ DATE _____

NO.	DATE	REVISION
	11/22/93	PER COUNTY COMMENTS
	8/31/98	PER COUNTY COMMENTS

OWNER

TRACY ENGINEERING, inc.
Land Development Planning and Engineering

11000 WOODBURN DRIVE
BALTIMORE, MARYLAND 21286
(410) 243-8920

STATE OF MARYLAND
PROFESSIONAL ENGINEER

P.O. BOX 26251 BALTIMORE, MARYLAND 21210
(410) 243-8920

OWNER

ELLICOTT CITY ASSEMBLY OF GOD
% RICHARD BRADFORD PASTOR
3011 CENTER DRIVE
ELLICOTT CITY, MARYLAND 21043
2844/407

PROJECT BA 92-45E

ELLICOTT CITY ASSEMBLY OF GOD
PHASE I
RELIGIOUS FACILITY

LOCATION

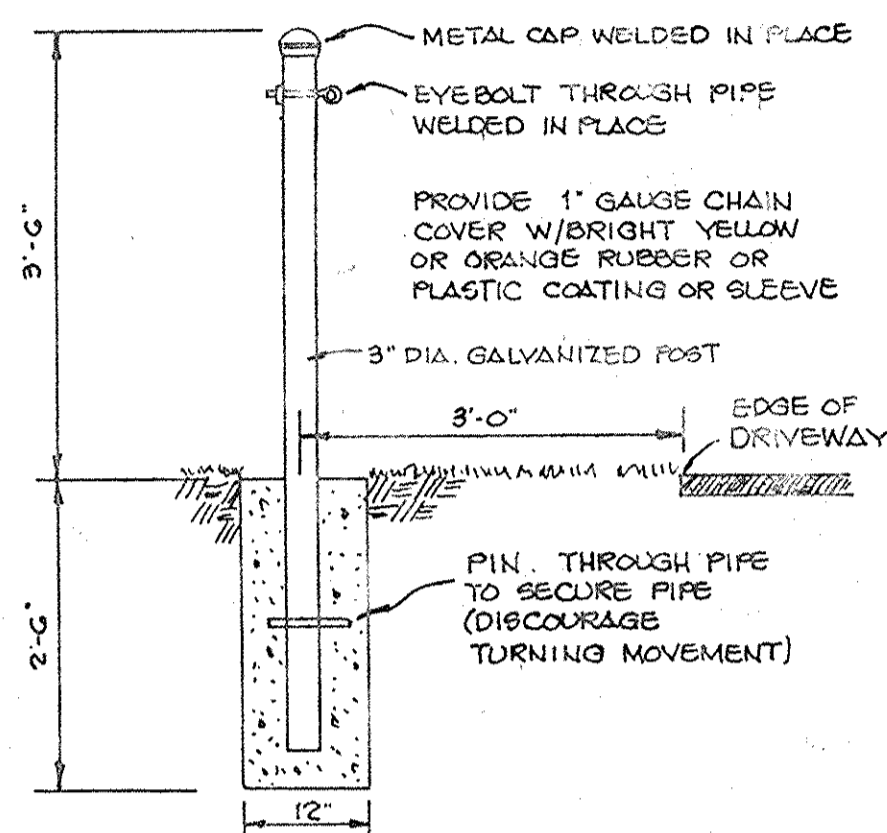
PARCEL 55
TAX MAP 1Q, GRID 24
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE

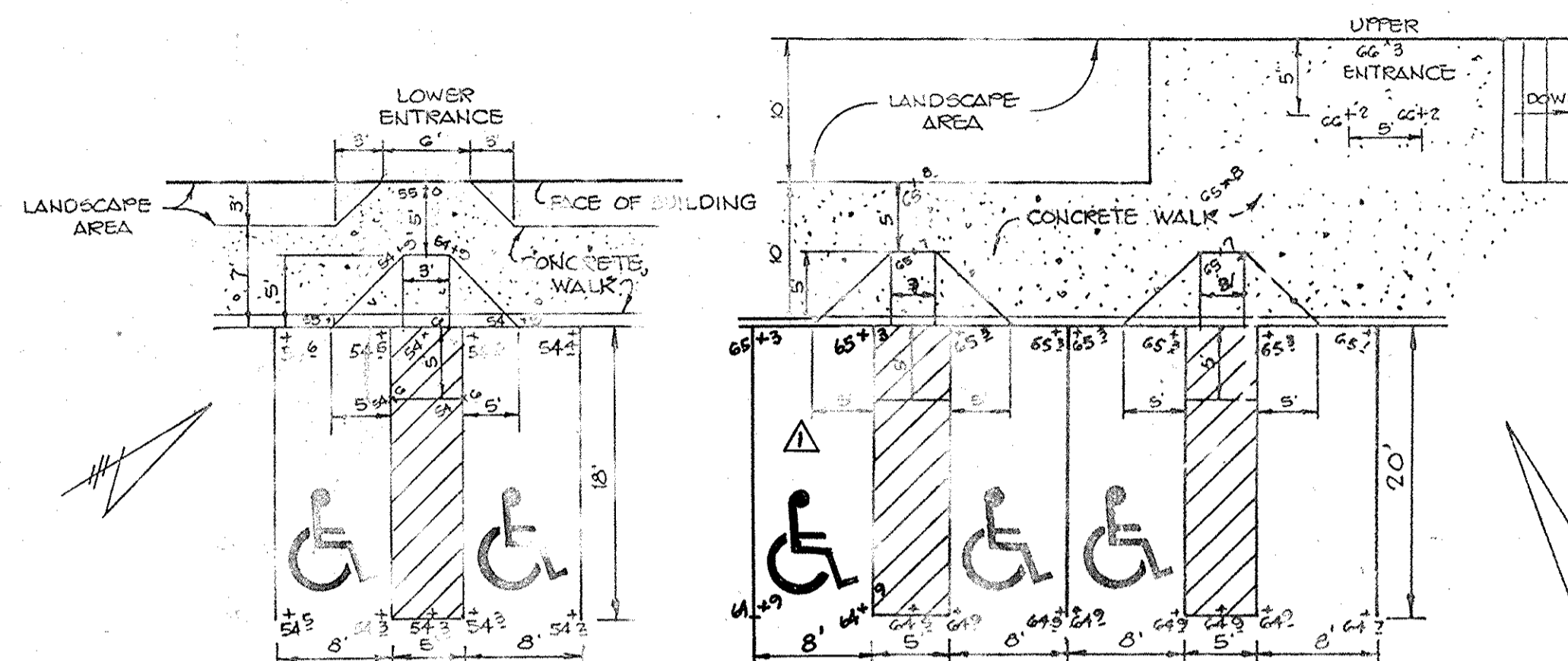
S.W.M. & SEDIMENT EROSION CONTROL
NOTES & DETAILS

DES: JKT	DRWN: COT	CHKD: JKT	SCALE: AS SHOWN
PROJECT: 031/50P 24-05	DATE: MAY 1993	DRAWING: 5 OF 7	

A POST SHALL BE PLACED ON EACH SIDE OF THE ENTRANCE A CHAIN SHALL BE PADLOCKED TO THE EYE BOLT ON GAS SIDE AND LOCKED IN PLACE ON THE OTHER.



TYPICAL ENTRANCE BARRIER DETAIL
NO SCALE



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

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Jan M. Chu DIRECTOR DATE 2/18/94
Paul D. Seaman SUPERVISOR, BUREAU OF ENGINEERING DATE 4/18/94

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Howard S. Smith DIRECTOR DATE 4/15/94
Chris Zimmerman CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE 4/15/94

NO.	DATE	REVISION
11-22-95		RELOCATED HANDICAP SPACE
1/3/94		PER COUNTY COMMENTS

TRACY
ENGINEERING, inc.

Land Development Planning and Engineering



P.O. BOX 20251 - BALTIMORE, MARYLAND 21210
(410) 243-8920

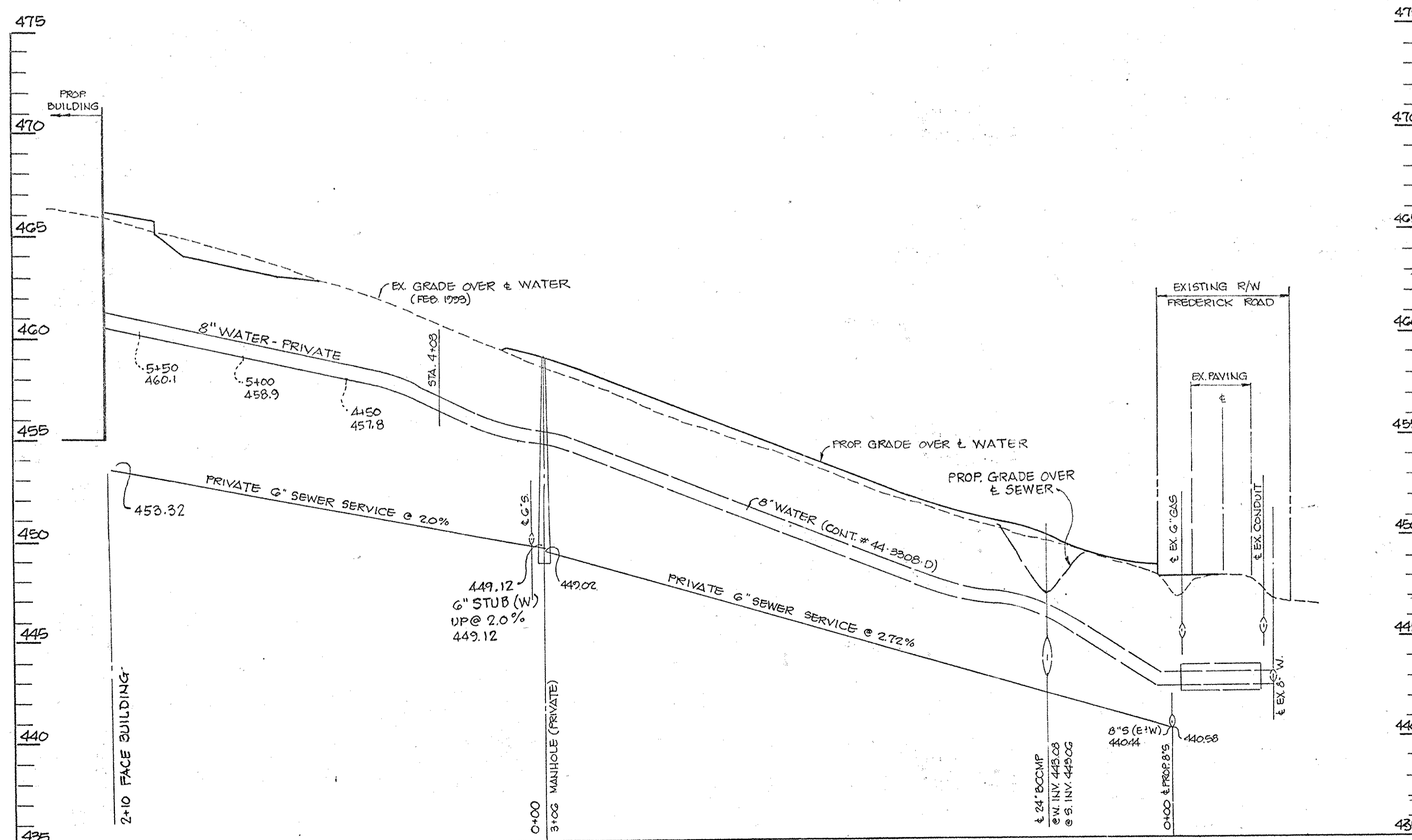
OWNER
ELLCOTT CITY ASSEMBLY OF GOD
46 RICHARD BRADFORD PASTOR
3011 CENTER DRIVE
ELLCOTT CITY, MARYLAND 21043
2844/407

PROJECT BA 02-45 E
ELLCOTT CITY ASSEMBLY OF GOD
PHASE I
RELIGIOUS FACILITY

LOCATION
TAX MAP 1G, P. 55, GRID 24
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

TITLE
DETAILS

DES: JKT	DRWN: COT	CHKD: JKT	SCALE: AS SHOWN
PROJECT: 031/SOP 04-05	DATE: NOV. 1993	DRAWING G OF 7	



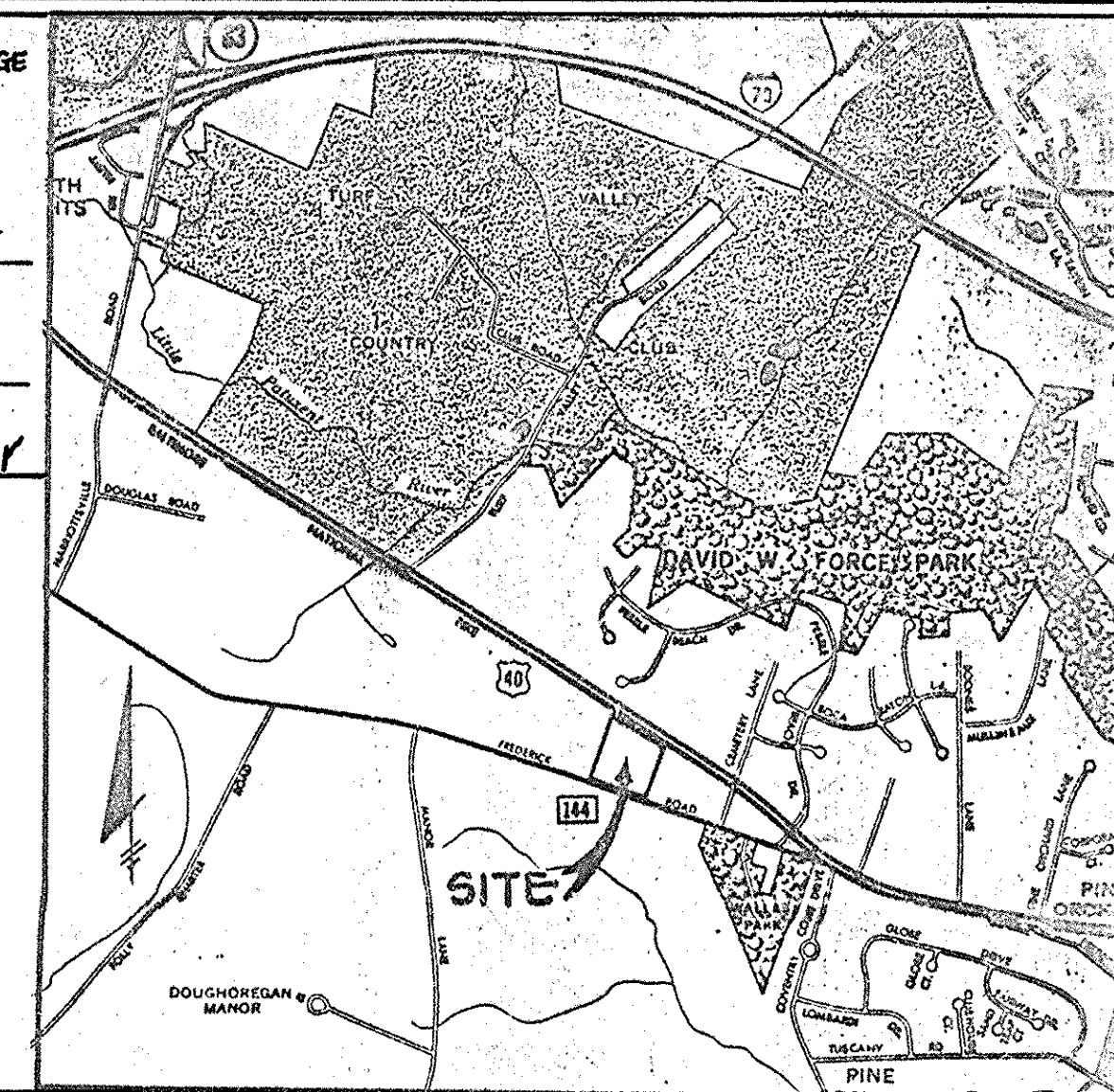
SCALE: HORIZ: 1"=40'
VERT: 1"=4'

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS, AND PUBLIC ROADS.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Paul J. Spurr
DIRECTOR
Paul J. Spurr
CHIEF, BUREAU OF ENGINEERING

4/13/94
DATE
4/13/94
DATE



VICINITY MAP

SCALE: 1"=2000'

ELICOTT CITY ASSEMBLY OF GOD
PROPOSED LANDSCAPE REQUIREMENTS DESIGN

- *Non-Residential* Perimeter Plantings:
- South perimeter adjacent to Rt. 144 - Type B
1 shade tree/40 lf
1 evergreen tree/20 lf
Rt. 144 Perimeter = 601.73' = 15 shade trees
= 15 evergreen trees
*five existing trees of 6" or greater
= 7 shade trees needed
= 15 evergreen trees needed
 - Right side perimeter adjacent to residential - Type C
1 shade tree/40 lf
1 evergreen tree/20 lf
Right side perimeter = 582.02' = 14.55 shade trees
= 29.10 evergreen trees
*nine existing trees of 6" or greater
= 5 shade trees needed
= 29 evergreen trees needed
 - Left side perimeter adjacent to residential - Type C
1 shade tree/40 lf
1 evergreen tree/20 lf
Left side perimeter = 733.46' = 18.33 shade trees
= 36.67 evergreen trees
*seven existing trees of 6" or greater
= 5 shade trees needed
= 37 evergreen trees needed
 - North perimeter adjacent to Rt. 40 - Type B
1 shade tree/50 lf
1 evergreen tree/40 lf
Rear perimeter = 620.49' = 12.4 shade trees
= 15.5 evergreen trees
*no existing trees
= 12 shade trees needed
= 15 evergreen trees needed
 - Parking area - minimum of 200 sq. ft.
1 shade tree/20 spaces
Parking area = 115 spaces = 5.75 shade trees
= 6 shade trees needed

REVISION #6
9/16/2014 ADD 4,750 SF WALKING PATH
SIGNED & SEALED FOR ADDITION OF WALKING PATH
VANMAR ASSOCIATES
Vanmar Associates
PROFESSIONAL ENGINEER
NO. 1841
01/19/15

NO.	DATE	REVISIONS	NO.	DATE	REVISIONS
	11/22/93	PER COUNTY COMMENTS			
	2/31/93	PER COUNTY COMMENTS		1/9/94	PER COUNTY COMMENTS

TRACY ENGINEERING, inc.
Land Development Planning and Engineering

PO. BOX 26251 • BALTIMORE, MARYLAND 21210
(410) 243-8320

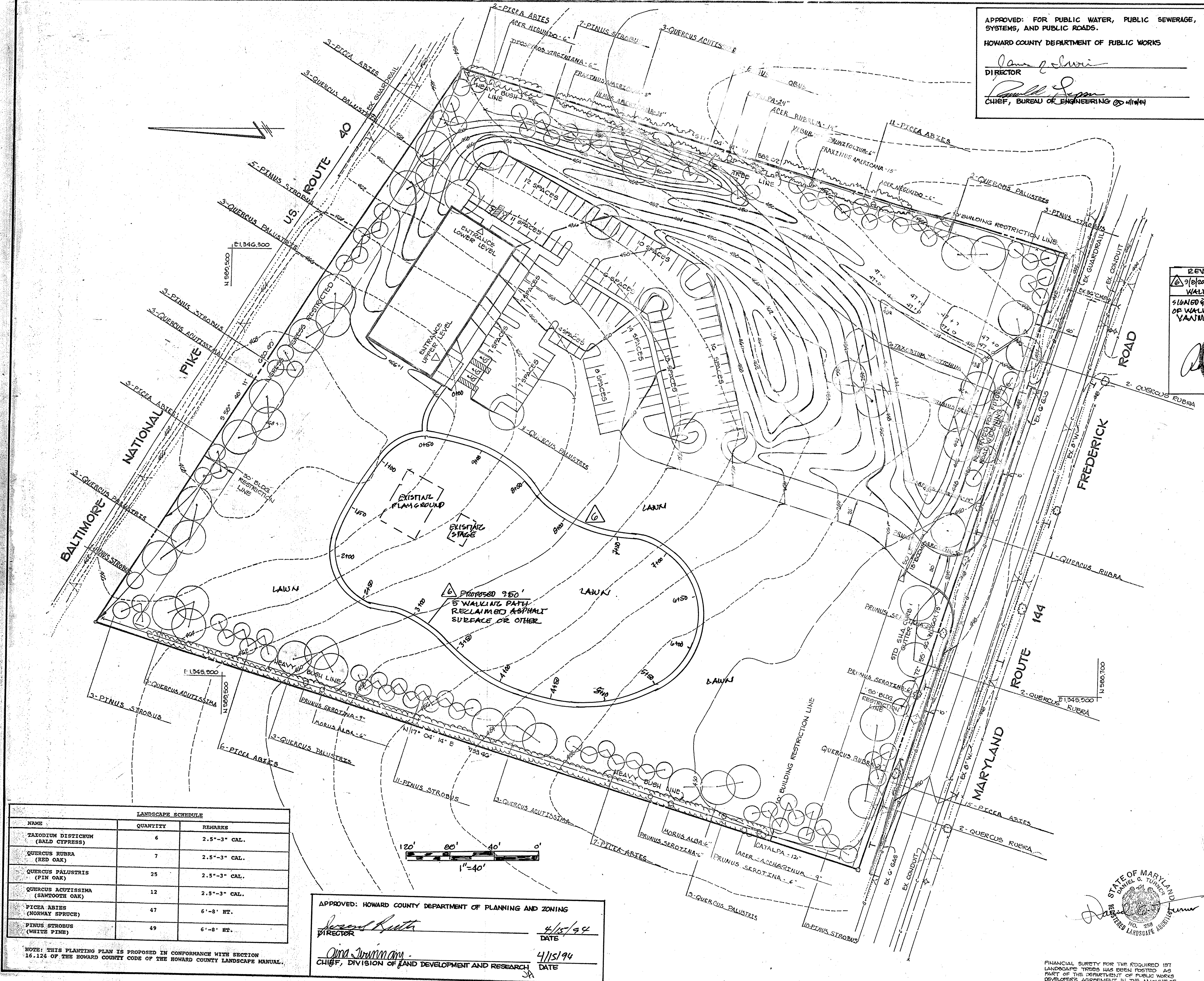
OWNER
ELICOTT CITY ASSEMBLY OF GOD
c/o RICHARD BRADFORD PASTOR
3011 CENTER DRIVE
ELICOTT CITY, MARYLAND 21043

PROJECT
ELICOTT CITY ASSEMBLY OF GOD

LOCATION
TAX MAP 16, GRID 24
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

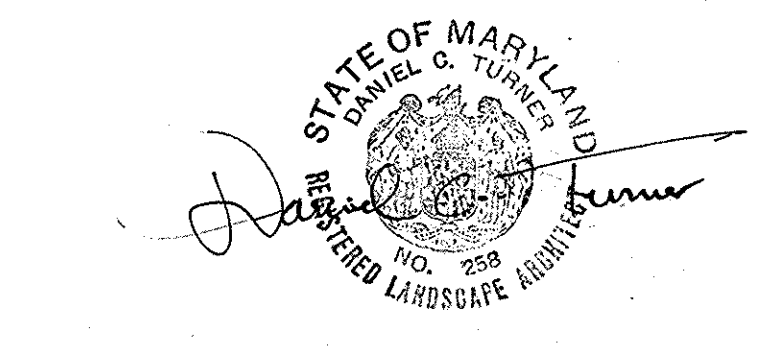
TITLE
LANDSCAPE PLAN

DES: DT	DRWN: F.S.	CHKD: DT	SCALE: 1"=40'
PROJECT: 031/SDP 94-05	DATE: JUNE, 1993	DRAWING: 7 OF 7	



NAME	QUANTITY	REMARKS
TAXODIUM DISTICHUM (BALD CYPRESS)	6	2.5"-3" CAL.
QUERCUS RUBRA (RED OAK)	7	2.5"-3" CAL.
QUERCUS PALUSTRIS (PIN OAK)	25	2.5"-3" CAL.
QUERCUS ACUTISSIMA (SAWTOOTH OAK)	12	2.5"-3" CAL.
PICEA ABIES (NORWAY SPRUCE)	47	6'-8" HT.
PINUS STROBUS (WHITE PINE)	49	6'-8" HT.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
David Smith
DIRECTOR
4/15/94
DATE
Quinn Johnson
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH
4/15/94
DATE



FINANCIAL SURETY FOR THE REQUIRED 187 LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEPARTMENT OF PUBLIC WORKS DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$19,700.00.