COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERRED TO THE SYSTEM OF COORDINATES ESTABLISHED BY THE HOWARD COUNTY GEODETIC CONTROL SYSTEM (NAD'83), AND ARE BASED ON THE FOLLOWING TRAVERSE STATIONS

(TRANSLATED METERS TO FEET)

DESIGNATION

564321.657

SITE ANALYSIS DATA:

PROPOSED USES FOR SITE AND STRUCTURES: EXISTING BUILDING= SANCTUARY

2. PARKING REQUIREMENTS: 158 CHILDREN MAXIMUM PER BA 98-16E&V.

B) SECTION 133,D.7, H, EXISTING RELIGIOUS/SUNDAY SCHOOL ACTIMITIES - NO FIXED SEATS

10) APPLICABLE DPZ FILE REFERENCES: BA CASE NO. 98-16 EAV
SPECIAL EXCEPTION FOR A STRUCTURE USED PRIMARILY FOR RELIGIOUS ACTIVITIES AND TO ENLARGE THE
EXISTING DAY CARE CENTER.
VARIANCES AS FOLLOWS:
(i) REDUCE THE 75 FOOT USE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR
LANDING ROAD TO 1 FOOT FOR 30 PARKING SPACES AND TO 17 FEET FOR DRIVE

REDUCE THE 20 FOOT REAR LOT LINE USE SETBACK TO 10 FEET FOR 11

REDUCE THE 75 FOOT USE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR OLD LANDING ROAD TO 20 FEET FOR 62 PARKING SPACES AND TO 22 FEET

REDUCE THE 75 FOOT STRUCTURE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR MONTGOMERY ROAD TO 59 FEET FOR THE ADDITION TO THE EX. BUILDING, REDUCE THE 75 FOOT USE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR MONTGOMERY ROAD TO 8 FEET FOR 24 PARKING SPACES, AND REDUCE TO 10 FEET FOR DRIVE AISLES.

11) LANDING ROAD IS A DESIGNATED SCENIC ROAD. DEVELOPMENT ABUTTING THIS ROAD WILL BE DESIGNED

SO AS TO MINIMIZE ANY IMPACT ON SCENIC VIEWS FROM THE ROAD AND COMPLY WITH ALL REGULATIONS 12) ALL PROPOSED OUTDOOR LIGHTING WILL BE IN ACCORDANCE WITH SECTION 134 OF THE ZONING REGULATIONS FOR HOWARD COUNTY AND SHALL BE DIRECTED AWAY FROM ADJOINING RESIDENTIAL PROPERTY.

13) LANDSCAPING FOR THIS SITE WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. REQUIRED SURETY IN THE AMOUNT OF \$24,180.00 WILL BE PROVIDED WITH THE DEVELOPER'S AGREEMENT.

14) IN ACCORDANCE WITH SECTION 16.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL, FOREST CONSERVATION OBLIGATIONS FOR THIS SITE HAVE BEEN MET BY THE FILING OF A DECLARATION OF INTENT FOR THE CLEARING OF LESS THAN 40,000 SQ. FT. OF FOREST ON A

15) THIS SITE PLAN DOES NOT INCLUDE THE FOLLOWING FEATURES APPROVED UNDER BA CASE NO. 98-16E&V.

16) THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 410-313-1880.

THE ABOVE ITEMS ARE ALL POSSIBLE SECOND PHASE IMPROVEMENTS. THE SECOND PHASE CONSTRUCTION IS NOT ANTICIPATED IN THE NEAR FUTURE. AN AMENDED SITE PLAN SHALL BE PREPARED SHOULD THIS PHASE OCCUR. A FUTURE BOARD OF APPEALS HEARING SHALL BE HELD TO ALLOW FOR THE PHASING OF THESE FEATURES.

A) SECTION 133,D.7, A, DAYCARE CENTER; M-F 7:00 A.M.-6:00 P.M. OPERATION

2400 S.F. / 100 x 10 = 24 SPACES

4 SPACES / 100 PARKING SPACES

(3 HANDICAP + 1 VAN ACCESSIBLE)

7:00 AM - 9:00 PM 7 DAYS / WEEK 3.3 SPACES / 1000 OFFICE AREA

TOTAL SPACES REQUIRED = 60 SPACES

a. 5744 S.F. COMMUNITY MINISTRY ADDITION

b. 3499 S.F. GYMNASIUM

e. 129 PARKING SPACES

d. TWO TRASH DUMPSTERS

c. GARDEN COURT WITH FOUNTAIN

2700 SF OFFICE / 1000 x 3.3 = 9 SPACES

9) BUILDING COVERAGE OF SITE: 0.38 ACRES AND 8.42% OF GROSS AREA.

TOTAL PROJECT AREA: 4.040 AC OR 1975,917.72 S.F.

FLOOR SPACE ON EACH LEVEL OF BUILDINGS PER USE: SANCTUARY/SUNDAY SCHOOL/OFFICES = 7677 S.F. DAYCARE = 8834 S.F.

3.0 SPACES / 1000 S.F.

10 SPACES / 1000 S.F.

C) HANDICAP REQUIREMENTS:

8) NUMBER OF PARKING SPACES PROVIDED ON SITE: 60 SPACES (INCLUDES 5 HANDICAP SPACES)

D) CHURCH OFFICES:

PARKING SPACES;

8834 S.F. / 3 = 27 SPACES

LIMITS OF DISTURBED AREA: 167,270 S.F. OR 3.84 ACRES PRESENT ZONING: R-ED

AREA OF PLAN SUBMISSION: 4.040 ACRES

NUMBER OF PARKING SPACES REQUIRED:

ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD'88) WITH LOCAL REFERENCE TO THE FOLLOWING HOWARD COUNTY GEODETIC CONTROL SYSTEM STATION:

DESIGNATION 37CA 37C3 ELEVATION (SFT) 256.965` 257.772

SDP 00-40 SITE DEVELOPMENT PLAN

for GRACE EPISCOPAL CHURCH BUILDING ADDITION HOWARD COUNTY, MARYLAND

SHEET INDEX

SHEET 1: TITLE SHEET

SHEET EXISTING CONDITIONS & DEMOLITION PLAN

SHEET SITE PLAN

GRADING, SWM & SEDIMENT CONTROL PLAN

MISCELLANEOUS NOTES AND DETAILS STORMWATER MANAGEMENT NOTES AND DETAILS

STORM DRAIN PROFILE AND DETAILS

LANDSCAPE PLAN

BUILDING ELEVATIONS

HANDICAP PARKING AND BUILDING ACCESS PLAN

STORM DRAIN DRAINAGE AREA MAP

STORMWATER MANAGEMENT DRAINAGE AREA MAP

PROJECT OWNER/DEVELOPER:

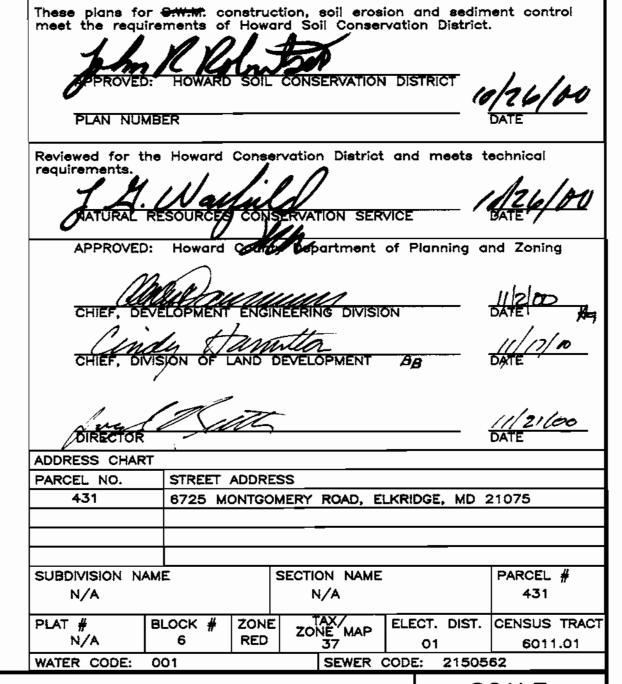
THE VESTRY OF GRACE CHURCH 6725 MONTGOMERY ROAD ELKRIDGE, MD 21075 TELEPHONE: 410-796-3270

CONSTRUCTION NOTES

THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST 24 HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.

VICINITY MAP

- 2. THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS. THE FIGURED DIMENSIONS SHALL GOVERN.
- CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE, AND FINISH
- SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE. UNLESS OTHERWISE NOTED.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
- TO PLACING A BID ON SUCH ITEMS.
- CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD-VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICT IS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT MARYLAND LAND DESIGN, INC. AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE
- CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NO BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION. ANY DAMAGE TO OFF SITE ROADS, RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE
- THE CONTRACTOR SHALL CLEAR THE PROJECT SITE OF ALL TREES, PAVING, STRUCTURES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLAN.
- 11. ONLY SUITABLE MATERIAL SHALL BE USED AS FILL AND ALL FILL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN THE SOILS REPORT PREPARED FOR THIS SITE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ALL 2:1 SLOPES SHOWN HEREON, EXCEPTING THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL PROVIDE MINIMUM 4 FOOT BENCH AT EDGE OF PAVING IN FILL AREAS. MAXIMUM SLOPE OF BENCH SHALL BE 4% (1/4 IN. PER FOOT).
- 13. MAXIMUM SLOPE SHALL BE 2 HORIZONTALLY TO 1 VERTICALLY.
- 14. CONTRACTOR SHALL PLACE 4" MINIMUM TOPSOIL IN LANDSCAPE AREAS. TOPSOIL SHALL BE APPROVED BY
- CONTRACTOR SHALL PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS.
- ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 FOOT OF PROTECTIVE FILL OVER STORM DRAIN PIPES DURING
- 18. ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- BOARD OF APPEAL CASE NUMBER BOA 00-29E, DATED 8/29/00, GRANTED A 2 YEAR EXTENSION TO OBTAIN A BUILDING PERMIT (SEPT. 28, 2002) AND SEPT. 28, 2003 FOR COMPLETION OF SUBSTANTIAL CONSTRUCTION OF THE SITE.



MARYLAND LAND DESIGN, INC.

CONSULTING ENGINEERS AND LAND PLANNERS

2001 MEADOW DRIVE WESTMINSTER. MARYLAND 21158 TELEPHONE: (410) 857-0210 FAX: (410) 840-0143



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		REVISIONS
NO.	DATE	DESCRIPTION
-+		
		<u> </u>

PLAN PRE	PARATION
DRAWN BY: DAB	DATE: 29 JULY 1999
DESIGNED BY: DAB	FILE NO. 99020
CHECKED BY: KDB	DRAWING NO.

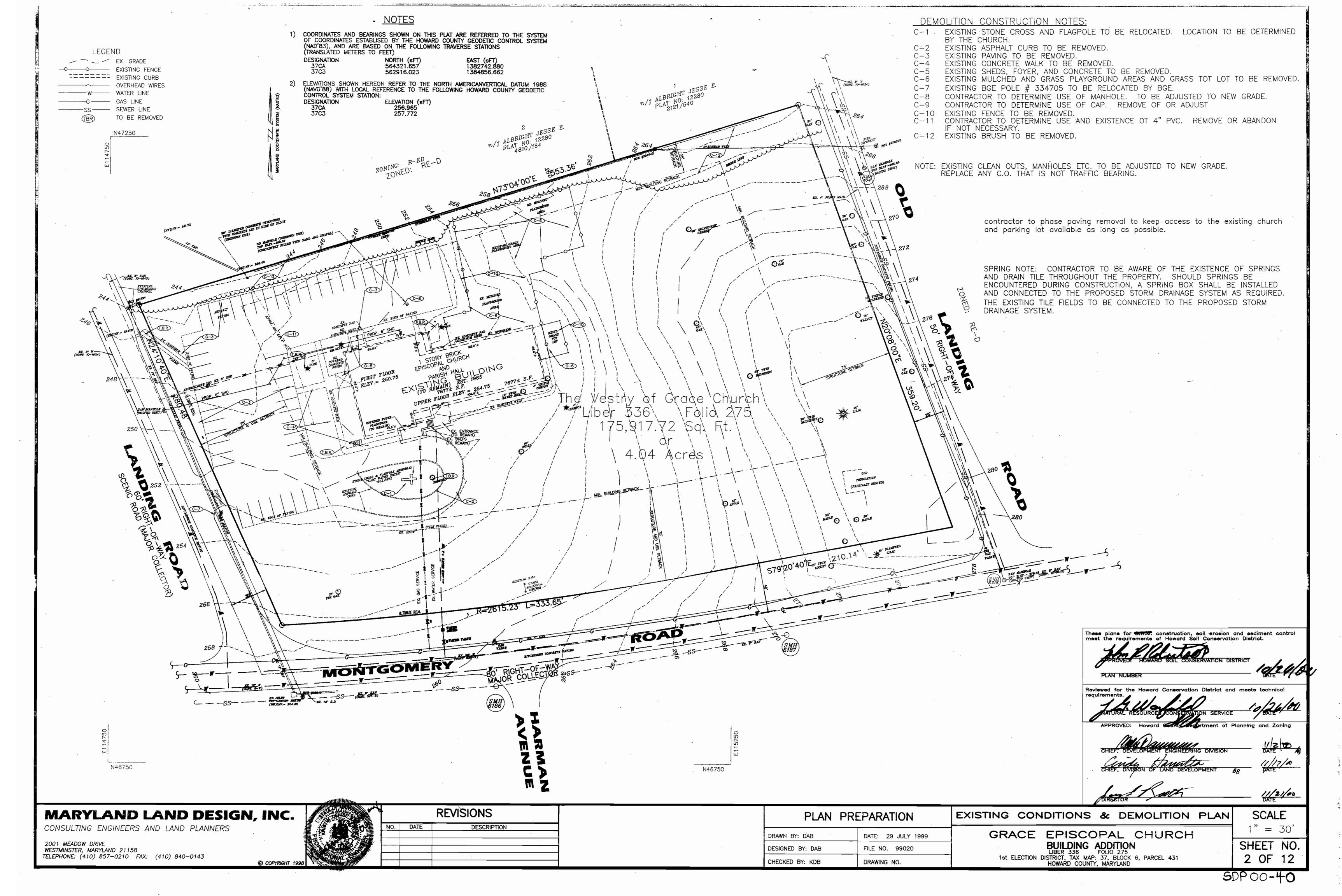
GRACE EPISCOPAL CHURCH **BUILDING ADDITION** LIBER 336 FOLIO 275

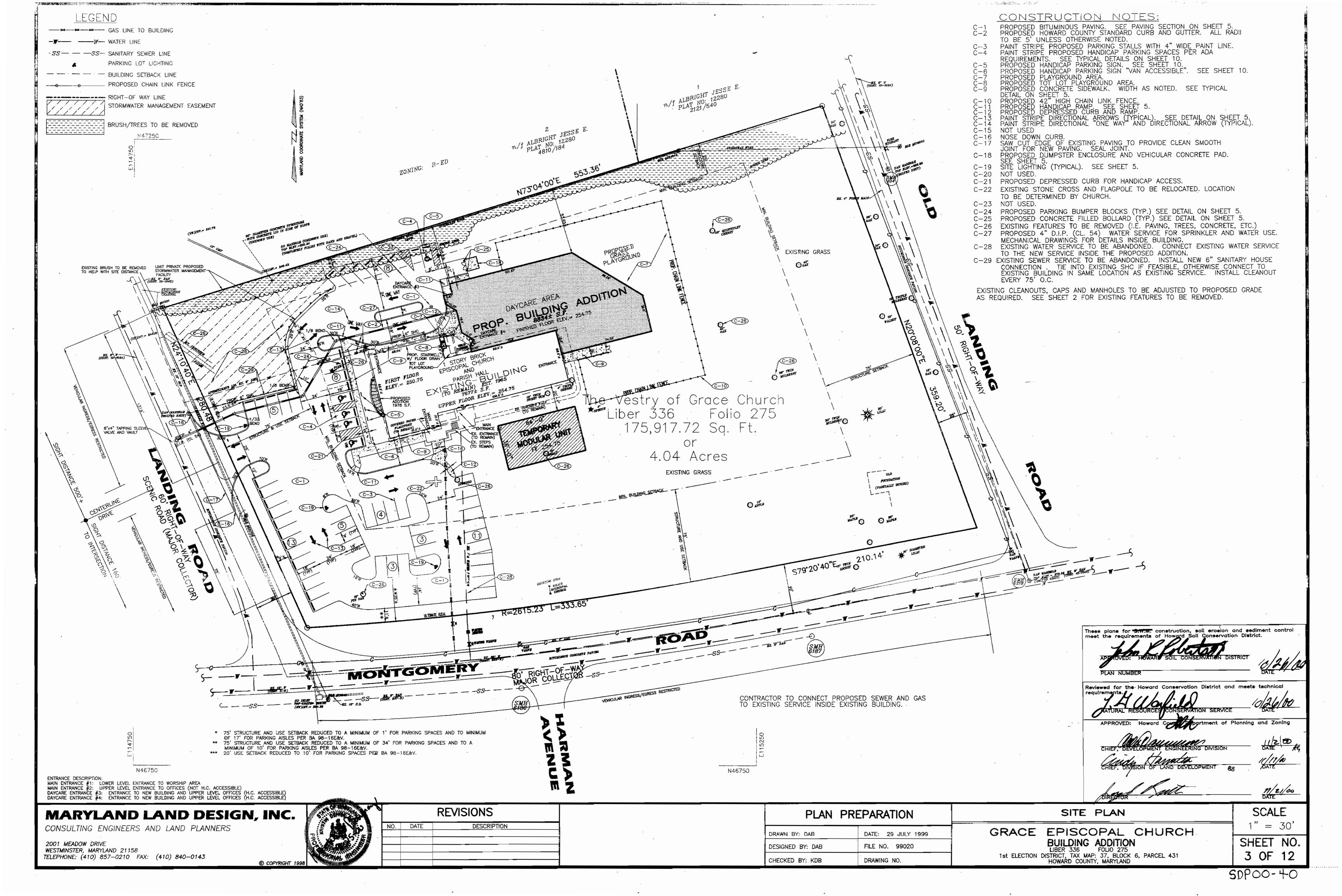
1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431
HOWARD COUNTY, MARYLAND

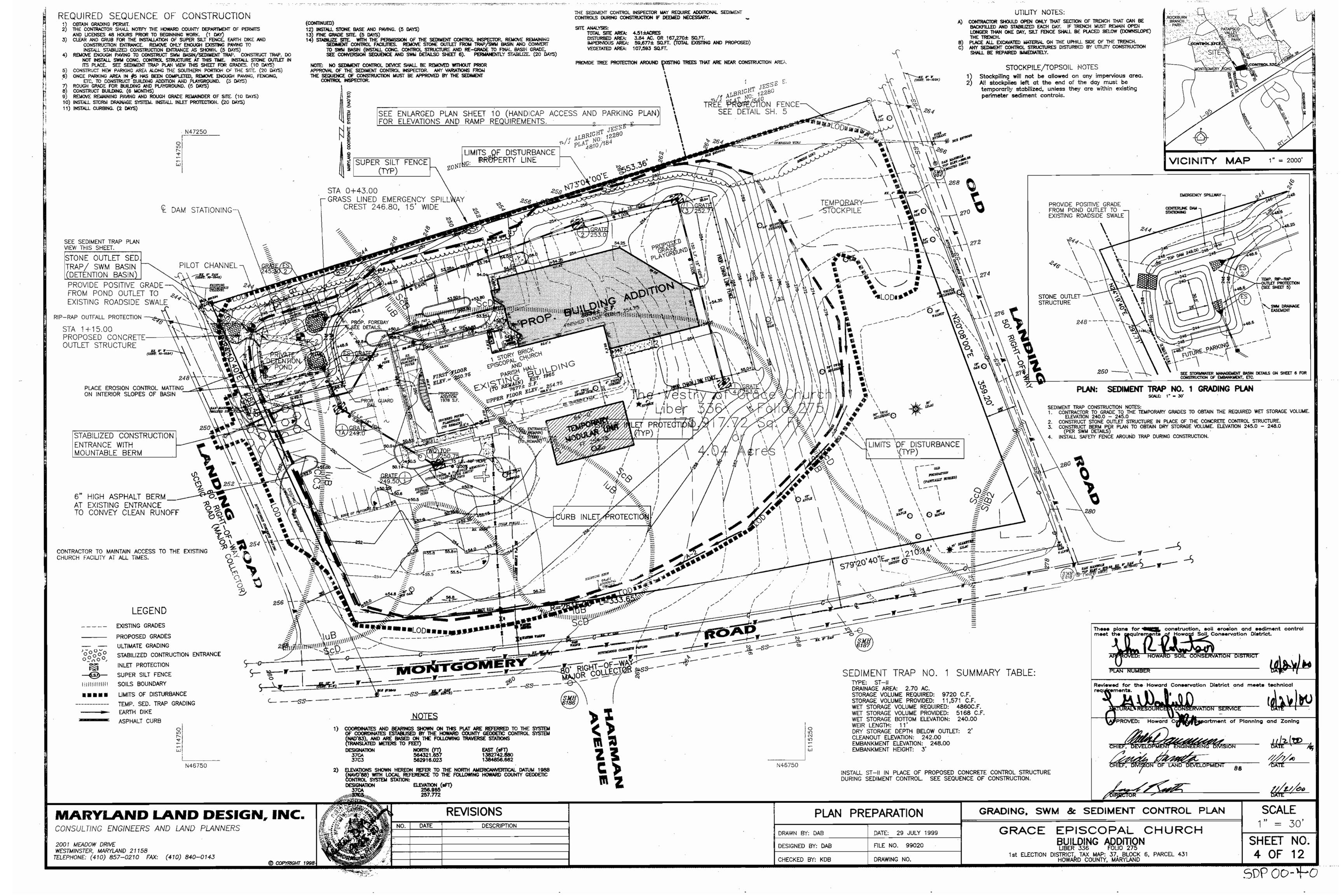
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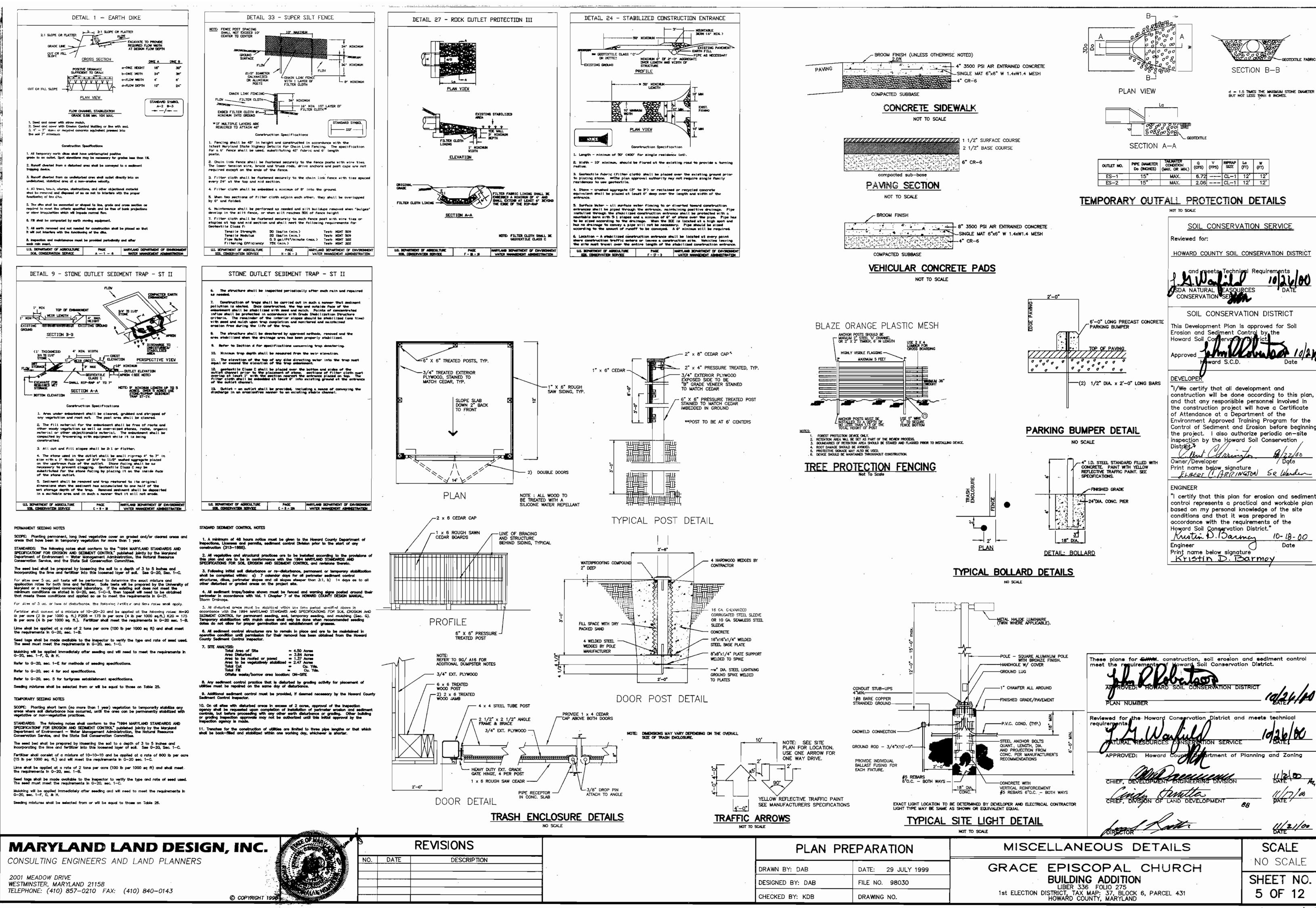
SCALE NO SCALE SHEET NO. OF 12

SDP 00-40









5DP00-40

5 OF 12

SCALE

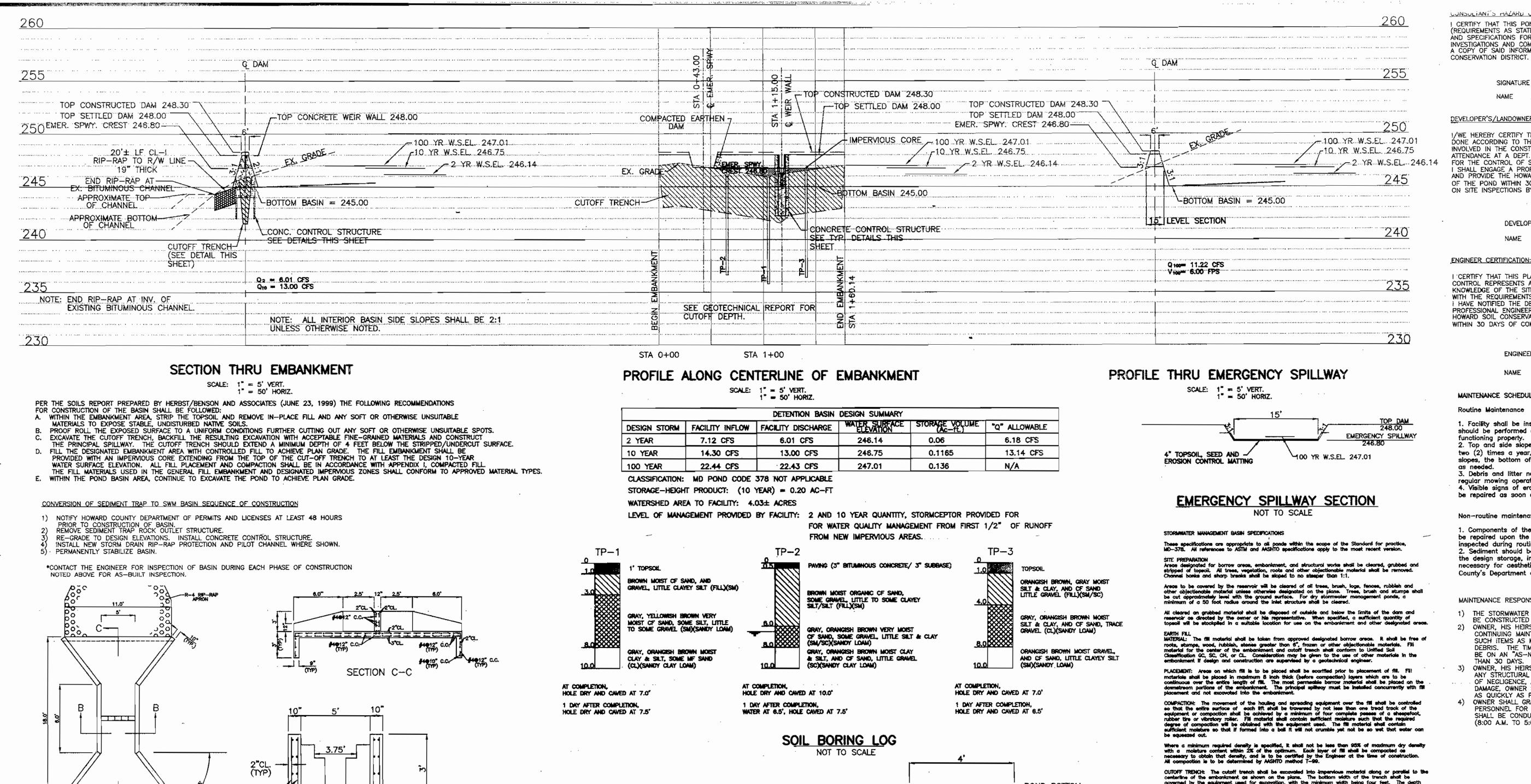
NO SCALE

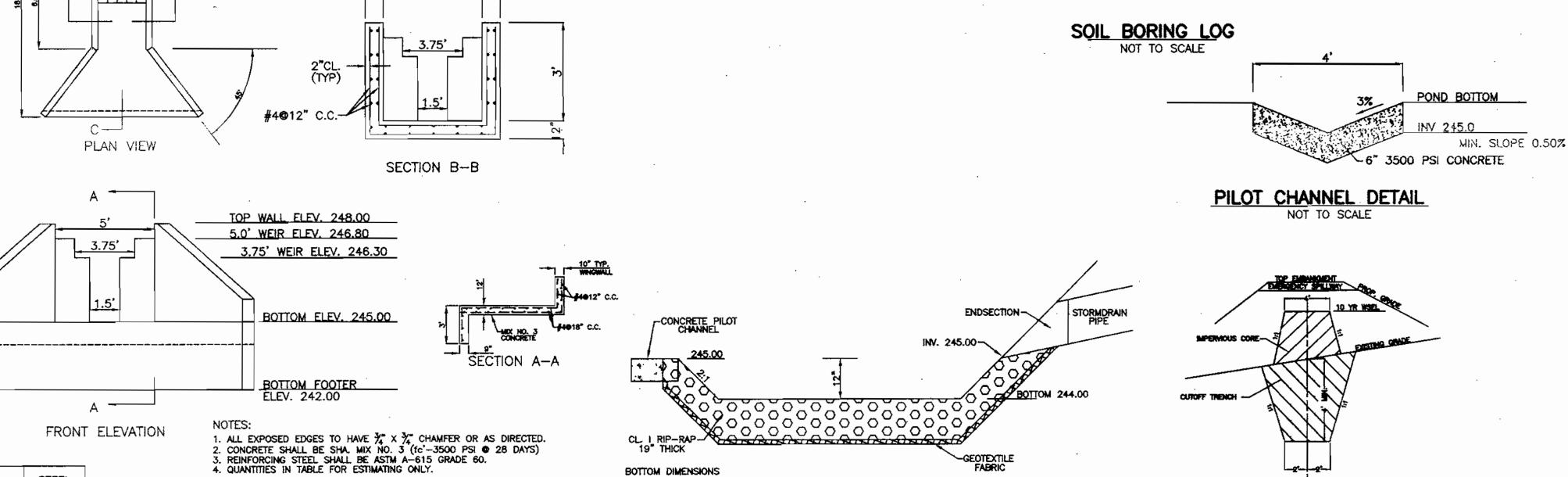
DATE DATE

11/21/00 DATE

10-18-00

Date





CUTOFF TRENCH: The cutoff trench shall be excavated into 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 1:1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

STRUCTURE BACKFIL

Backfill adjacent to pipes shell 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 sacked four incress in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24° or greater over the structure or pipe.

All pipes shall be circular in cross section.

POLYVINYL CHLORIDE (PVC) PIPE - All of the following criteria shall apply for Polyvinyl chloride (PVC)

one placed in a manner that will insure that rip-rap in place shall be reasonably homogenous with the larger racks uniformly distributed and firmly in contact one to another with the smaller racks filling the voids between the larger racks. Fifter cloth shall be placed under all rip-rap and shall meet the requirements of Maryland Department of Transportation, Stable Highway Administration Standard Specification for construction and materials, Section 919.12.

STABILIZATION

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

EROSION AND SEDMENT CONTROL.

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

UNDULIANTS MAZARU ULASS CERTIFICATION. I CERTIFY THAT THIS POND MEETS ALL REQUIREMENTS FOR HAZARD CLASS A B OR C (REQUIREMENTS AS STATED IN THE SOIL CONSERVATION SERVICE MARYLAND STANDARDS AND SPECIFICATIONS FOR POND CODE 378, NOVEMBER 1992). ALL NECESSARY INVESTIGATIONS AND COMPUTATIONS HAVE BEEN PERFORMED TO VERIFY THIS FINDING. A COPY OF SAID INFORMATION HAS BEEN SUPPLIED TO HOWARD COUNTY SOIL

Kristin D. Barmon DATE 10-18-2000

DEVELOPER'S/LANDOWNER'S CERTIFICATION:

I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECTION WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPT. OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT I SHALL ENGAGE A 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 ON SITE INSPECTIONS BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

ENGINEER CERTIFICATION:

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/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

> ENGINEER Kristin D. Barman PE # 17740 NAME Kristin Barmay DATE 10-18-00

MAINTENANCE SCHEDULE

two (2) times a year, once in June and once in September. Other side slopes, the bottom of the pand, and maintenance access should be mowed

Debris and litter next to the outlet structures shall be removed regular mowing operations and as needed.

4. Visible signs of erosion in the pond as well as rip—rap outlet area shall be repaired as soon as it is noticed.

1. Components of the pond such as the dam, the riser, and the pipes shall be repaired upon the detection of any damage. The components should be nspected during routine maintenance operations. 2. Sediment should be removed when its accumulation significantly reduces the design storage, interferes with the function of the riser, when deemed necessary for aesthetic reasons, or when deemed necessary by the Howard County's Department of Public Works.

MAINTENANCE RESPONSIBILITY:

THE STORMWATER MANAGEMENT FACILITY SHOWN ON THESE PLANS SHALL BE CONSTRUCTED AND MAINTAINED BY THE OWNER.

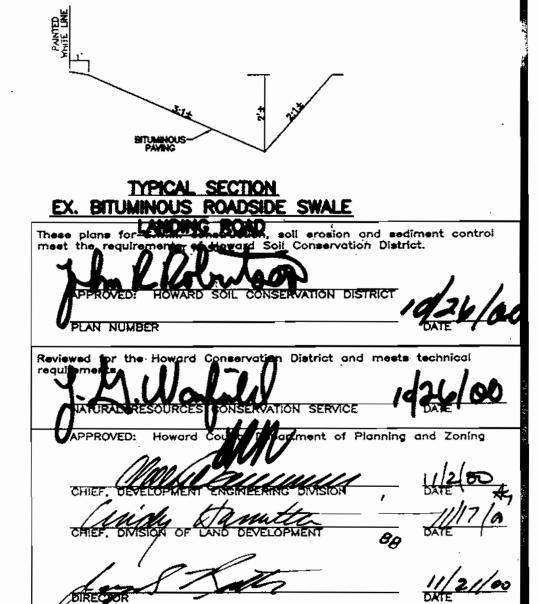
OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR CONTINUING MAINTENANCE OF THE FACILITY WHICH SHALL INCLUDE

SUCH ITEMS AS MOWING, CLEANING AND REMOVING OF SEDIMENT AND/OR DEBRIS. THE TIME PERIOD FOR ITS CONTINUING MAINTENANCE SHALL BE ON AN "AS-NEEDED" BASIS BUT SHALL NOT BE DELAYED LONGER THAN 30 DAYS.

OWNER, HIS HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR REPAIRING ANY STRUCTURAL DAMAGES OR FAILURE WHICH MAY OCCUR AS A RESULT OF NEGLIGENCE, ACCIDENT OR MISUSE. IN THE EVENT OF STRUCTURAL DAMAGE, OWNER SHALL BE RESPONSIBLE TO MAKE NECESSARY REPAIRS
AS QUICKLY AS POSSIBLE BUT IN ANY CASE WITHIN 80 DAYS.

4) OWNER SHALL GRANT RIGHT OF ENTRY TO AUTHORIZED COUNTY

PERSONNEL FOR PURPOSE OF INSPECTION AND/OR MONITORING WHICH SHALL BE CONDUCTED ONLY DURING NORMAL COUNTY WORKING HOURS (8:00 A.M. TO 5:00 P.M. MONDAY - FRIDAY).



MARYLAND LAND DESIGN, INC.

LOW RISE STORMWATER

MANAGEMENT CONTROL STRUCTURE

NOT TO SCALE

CONSULTING ENGINEERS AND LAND PLANNERS 2001 MEADOW DRIVE

TELEPHONE: (410) 857-0210 FAX: (410) 840-0143

STEEL

(lbs)

1100

WESTMINSTER, MARYLAND 21158

CONC.

14.5



	REVISIONS			
0,00	NO.	DATE	DESCRIPTION	
		-		

SECTION - FOREBAY

NOT TO SCALE

BOTTOM DIMENSIONS ES-1 10'X10' ES-2 12'X10'

PLAN	PREPARATION
DRAWN BY: DAB	29 JULY 1999
DESIGNED BY: KDB	FILE NO. 99020

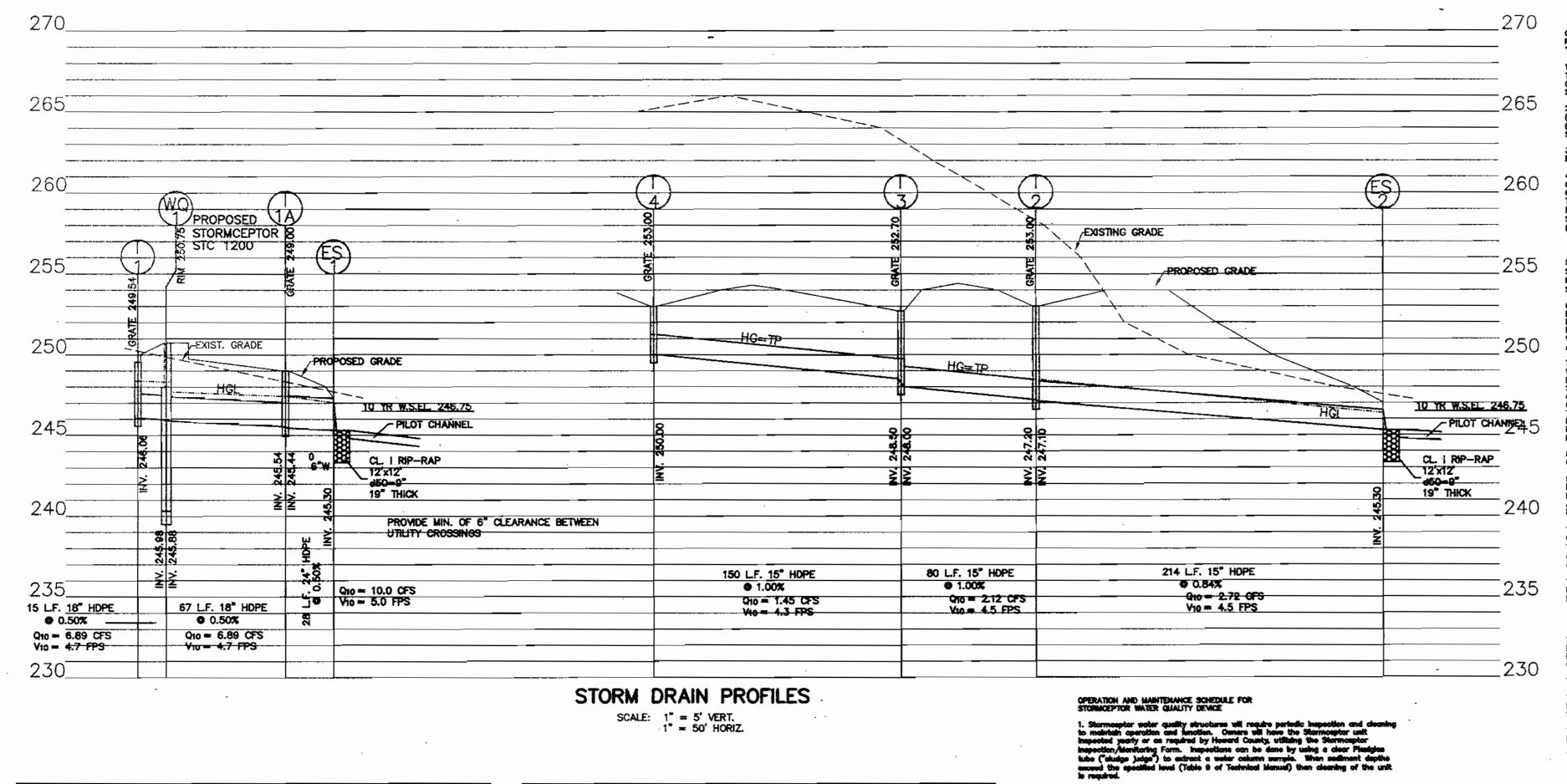
DRAWING NO.

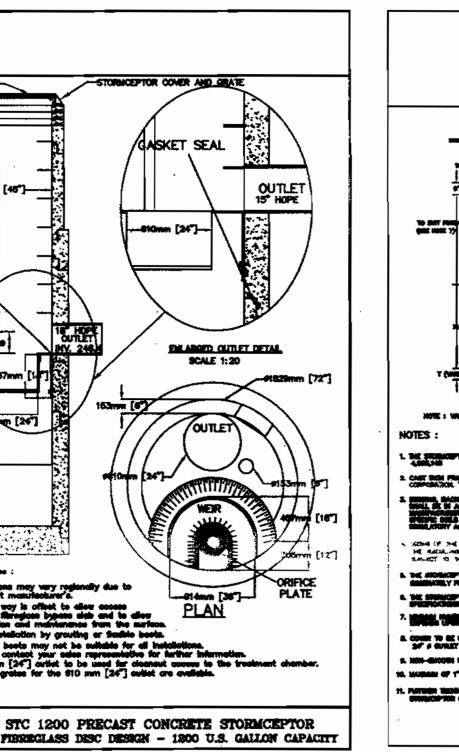
CHECKED BY: KDB

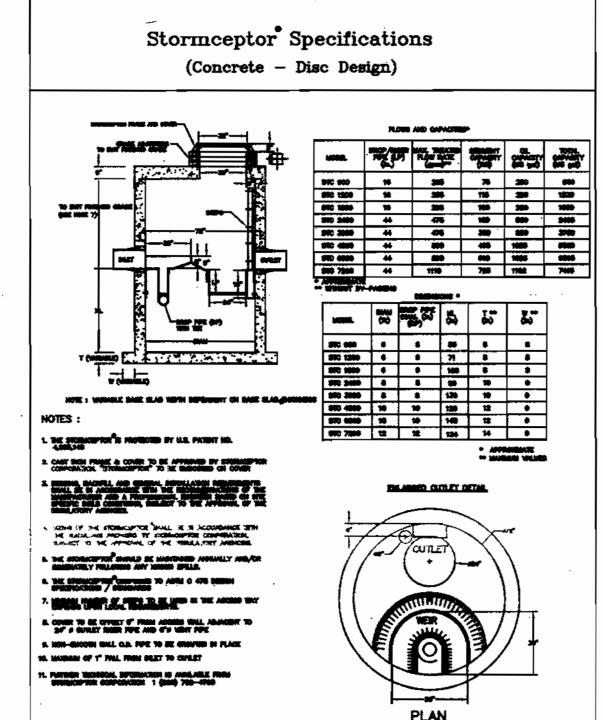
CUTOFF TRENCH DETAIL

NOT TO SCALE

SWM NOTES AND DETAILS GRACE EPISCOPAL CHURCH BUILDING ADDITION LIBER 336 FOLIO 275 1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431 HOWARD COUNTY, MARYLAND







STORM DRAIN STRUCTURE SCHEDULE

ASKET SEAL

0.0	2			
STRUCTURE	GRATE	INV. IN	INV. OUT	TYPE
I-1 I-1A 1-2 1-3 1-4	249.00 249.00 253.00 252.70 253.00	245.68 247.20 248.50	246.56 245.58 247.10 248.00 250.00	*MODIFIED TYPE S, DOUBLE GRATE (MD 379.03) *MODIFIED TYPE S, DOUBLE GRATE (MD 379.03) PRECAST YARD INLET (MD-381.02) PRECAST YARD INLET (MD-381.02) PRECAST YARD INLET (MD-381.02)
WQ-1	250.75	246.48	246.40	STORMCEPTOR STC 1200
ES-1			245.30	HDPE END SECTION
ES-2			245.30	HDPE END SECTION
*MODIFIED TO I-1 TO BE D	MAKE LES EPRESSED	S, THAN ST 3" WITHIN	ANDARD DEPTH A 5' RADIUS.	orthur.

MARYLAND LAND DESIGN, INC.

CONSULTING ENGINEERS AND LAND PLANNERS

2001 MEADOW DRIVE WESTMINSTER, MARYLAND 21158 TELEPHONE: (410) 857-0210 FAX: (410) 840-0143

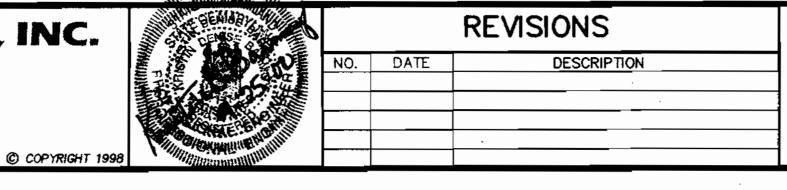
203mm [8°]

GRADE (F FERRED)

300mm [127]

Osnodius Potent No. 2,008,208 Canadius Potent No. 2,137,942 U.S. Potent No. 4,885,148 U.S. Potent No. 4,885,314 U.S. Potent No. 5,725,785 U.S. Potent No. 5,725,785 U.S. Potent No. 5,753,115

7 × 2 × 1



3. Maintenance of Stormceptor units should be done by a vacuum truck which will remove the water, sediment, debrie, floating hydrocarbone and other materials in unit. The proper cleaning and disposal of the removed meterials and liquid must be followed.

Injet and autiet pipes must be checked for any obstructions are found they must be removed. Structural parts of the Stormosptor will be repaired as needed.

DRAWN BY: DAB

DESIGNED BY: DAB

CHECKED BY: KDB

Reviewed for the Howard (Conservation District and meets technical

comstruction, soil erosion and sediment control of Howard Soil Conservation District.

PLAN PREPARATION

DATE: 29 JULY 1999

FILE NO. 98030

DRAWING NO.

GRACE EPISCOPAL CHURCH

1//21/as

SCALE NO SCALE SHEET NO.

7 OF 12

BUILDING ADDITION LIBER 336 FOLIO 275

1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431
HOWARD COUNTY, MARYLAND

The installation of the concrete Stormosptor? should conform in general to state highway or local specifications for the construction of manholes. Selected sections of a general specification that are applicable are summarized in the following sections.

Excavation for the inebalation of the Stormasptor? should conform to state highway or local specifications. Topsoi that is removed during the excavation for the Stormasptor? should be stockpiled in designated areas and should not be inless with subset or other materials. Topsoi stockpiles, and the general site preparation for the installation of the Stormasptor? should conform to state highway or local specifications.

The Stormceptor should not be inetalled on frozen ground. Exceptation should extend a minimum of 1/2 inches from the preced concrets surfaces plus on allowance for shoring and bracing where required. If the bottom of the escapation provides on sneuhable foundation additional escapation may be required.

A 5 to 12 3nch layer of granular material (conforming to local or state highway backtit specifications) should be installed, compacted, and leveled at the bottom of the excavation to the proper elevation for the installetion of the interceptor base.

Boold's moterial should conform to state highway or local specifications. Generally, backfil material should be placed in uniform layers not exceeding 12 inches in depth. Each layer should be compacted to 95% of the maximum dry density. Backfill is not to contain topeos.

Once the by-pass section has been attached to the treatment chamber the down pipe and riser pipe can be attached. To install these pipes a worker enters the treatment chamber through the central access way in the by-pass section.

The hiet pipe (pipe with the tee at the end) is installed by coating the outside of the end of the pipe with quick dry PVC connect and pushing the pipe into the coupling provided on the underside of the by—pass section. The tee must be ariented such that water which enters the treatment chamber is directed tangentially around the inside walls of the chamber.

The concrete Stormosptor? Is installed in sections in the following sequence :

CONTRACTOR INSTALLATION INSTRUCTIONS: PRECAST CONCRETE STORMICEPTOR 'DISC' DESIGN 1. STAKE-OUT THE LOCATION OF THE STORMCEPTOR AND EXCAVATE HOLE, EXCAVATE ADECIDATE SPACE TO COMPACT HILET AND OUTLET PIPES TO UNIT. INSTALL A 12 INCH DEEP (OR AS REQUIRED) LAYER OF COMPACTED AGGREGATE SUBBASE AT THE BOTTOM OF THE EXCAVATION. INSTALL TRENCH EBOX OR SHORING AS NEEDED. 2. CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM BASE OF THE STORAGE CHAMBER (OUTSIDE BOTTOM OF UNIT'S SLAS) TO THE INVERT OF STORAGEPTOR BYPASS CHAMBER INLECT ELEVATION (FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN INVERT ELEVATION TO DETERMINE TOP OF SUBBASE ELEVATION. CHECK ELEVATION OF INSTALLED SUBBASE AND ADJUST AS NEEDED. 4. INSTALL STORAGE CHAIRER. (INSTALL SCREW LIFTING PINS OF HOOKS INTO BASE OF STITCRAGE CHAIRER.) ATTACH CABLES OR CHAIRS TO LIFT LLOS ON THE BASE SLAB. LISTING LARGE LECLIMIENT OR CRAIR. LIFT AND PLACE THE BASE SECTION OF THE STORAGE CHAIRING IN THE EXCAVALTED HOLE ON THE SUBBASE. MAKE SUBE THAT THE BASE IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS NOT RECURRED. INSTALL RUBBER GASKET ON BASE UNIT AND COAT WITH LUBBERCATING GREASE (IPROVIDED IN SHIPMENT), IF NOT PRELLIBERCATED. INSTALL ADDITIONAL STORAGE CHAIRIER SECTIONS, AS REQUIRED (FOR STORMOSPTOR MODELS STC-900, STC-1200 AND STC-1800 SKIP STEP 5 AND GO TOS STEP 6)

5. INSTALL REDUCING SLAW. (STORMCEPTOR MODELS STD-24CO, STD-3800, STC-4800, STC-6000 AND STC-7200) CHECK THAT SECTION IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON THE TRANSITION SLAB SPIGOT AND COAT WITH LUBRICATING GREASE (PHROWIDED IN

11. BACKFILL STORMCEPTOR WITH APPROVED BACKFILL MATERIAL (NO ORGANIC OR TOPSOIL IS TO BE USED FOR BACKFILL). BACKFILL AND COMPACT IN 8 INCH LIFTS. BACKFILL SHOULD BE COMPACTED TO LOCAL/STATE REQUIREMENTS.

15. FILL UNIT WITH CLEAN WATER AFTER UNIT IS CLEANED OUT, IF REQUIRED BY LOCAL INSUPECTION PERSONNEL.

16. FINAL INSPECTION. 3/3/97

FOR TECHNICAL INFORMATION CALL STORMCEPTOR CORPORATION AT 1-800-782-4703

7. INSTALL INLET AND OUTLET STORMCRAM PIPES. COMMECT WILET AND OUTLET STORM DIRLAM PIPES WITH FLORIBLE BOOTS (WHEN PROVIDED) AND WITH MON-SHIRMS GROUT WHEN NO FIZHBLE BOOTS ARE PROMODED. THE INVERT OF THE DILET AND OUTLET PIPE IS TO MATCH WHEN HOPET OF THE STORMCEPTOR INSERT. FLEXIBLE SCOT INSTALLATION PROCEDURES CENTER THE PIPE IN THE BOOT OPENING. LUBRICATE THE OUTSIDE OF THE BOOT AND THE PIPE AND OF THE BOOT WITH THE SCREW AT THE TOP. THE WINDE OF THE BOOT ME PIPE CLAMP IN THE GROVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP SOREW! TO SO MICH POUNDS. IF THE PIPE IS MUCH SMALLER THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THAN THE BOOT LIFT THE BOOT SUCH THAT IT COUNTACTS THE BOTTOM OF THE PIPE WHILE THE PIPE WHITE WHILE THE PIPE WHILE WHILE THE PIPE WHILE PIPE WHILE THE PI 8. INSTALL STORMCEPTOR DROP PIPES ACCORDING TO STC PIPE INSTALLATION PROCEDURE CON PAGE 2 OF THESE INSTRUCTIONS. 9. INSTALL RISER SECTION. LIFT RISER SECTION AND INSTALL, WHILE CHECKING THAT SECTION IS SET FLUSH AND IS AT PROPER ELEVATION AND THAT UNIT IS LEVEL. SPECIFIC ALIGNMENT OF TITHIS PART IS REQUIRED, IF STEP(S) ARE INCLUDED. ALIGN STEPS PROPERLY FOR ACCESS FROM MANHOLES OPENING AND ADJACENT TO VENT PIPE. NOTE, FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOTE BE REQUIRED. 10. INSTALL TOP SLAB (CAP) WITH MANHOLE OPENING FOR STORMCEPTOR FRAME AND COVIER. MANHOLE OPENING OFFSET (NOT CENTERED), SHOULD BE ORIENTED SO CPENING IS ABOVE STEPS AND ADJACENT TO VENT PIPE, SUCH THAT 6" VENT PIPE CAN BE CUT 1 INCH BELOW TOP OF SLAB AND SEECURLY ATTACHED TO INSIDE EDGE OF MANHOLE ACCESS OPENING. TOP SLAB OPENING SHOULD BEE ORIENTED ABOVE THE STORMCEPTOR OUTLET (24 INCH) DROP PIPE AND ABOVE THE 6 INCH VENT PIPE. 12. INSTALL AND SET GRADE ADJUSTING RINGS OR USE APPROVED GRADE ADJUSTING METHIOD AND LEVELING MATERIALS, AS NEEDED. PLUG ALL LIFT HOLES WITH TAPERED FLEIBLE PLUG (PIROMOED) AND RONCK IN TO PLACE, PLUGS IN STORAGE CHAMBER MUST ALSO BE GROUTED INSIDE AND COUTSIDE WITH GROUT. GROUT ALL OTHER LIFT HOLES. 14. THE STORMCEPTOR SHOULD BE PUMPED OUT AND SEDIMENT AND DEBRIS MATERIAL DISPPOSED OF PROPERLY, WHEN THE PROJECT'S SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMAMENTLY STABILIZED).

Inlet and autiet pipes should be securely set into the by-pass chamber using grout or approved pipe seals so that the structure is watertight. Kor—N—Seal? boots are normally used and installed at the precost concrete plant prior to shipping. The Kor—N—Seal? boots are applicable for pipes with an autiside clameter up to 45 inches. Stormasptor Corporation should be notified if the pipe is to be grouted in the field at the time of ordering (i.e. Kor—N—Seal? boots will not be used) since the boots are generally included in the price quotations.

Installation of the Kor-N-Seat? boots should fellow the manufacturer's recommendations. As previously mentioned, the boots will already be attached to the Stormosptor? at the concrete plant. Accordingly, the following precedure should be followed to attach the inlet and cutlet pipes to the Stormosptor? In the field:

Center the pipe in the boot opening
 Lubricate the outside of the pipe and/or haids of the boot if the pipe autside diameter is the same as the haids diameter of the boot
 Position the pipe clamp in the groove of the boot with the same at the top
 Tighter the pipe clamp ecrew to 60 inch pounds
 On minimum outside diameter installations lift the boot such that it contacts the bottom of the pipe while tightening the pipe clamp to ensure even contraction of the rubber.
 Nove the pipe horizontally and/or vertically to bring it to grade

2. Does tech
3. treatment chamber section(s)
4. transition slob (if required)
5. by—pass section
6. connect hiet and outlet pipes
7. transition slob
8. maintanance occess way
9. frame and access cover

Procest concrete adjustment units should be installed to set the frame and cover at the required elevation. The adjustment units should be told in a full bed of marter with successive units being joined using sealant recommended by the manufacturer. Frames for the cover should be set in a full bed of marter at the elevation specified.

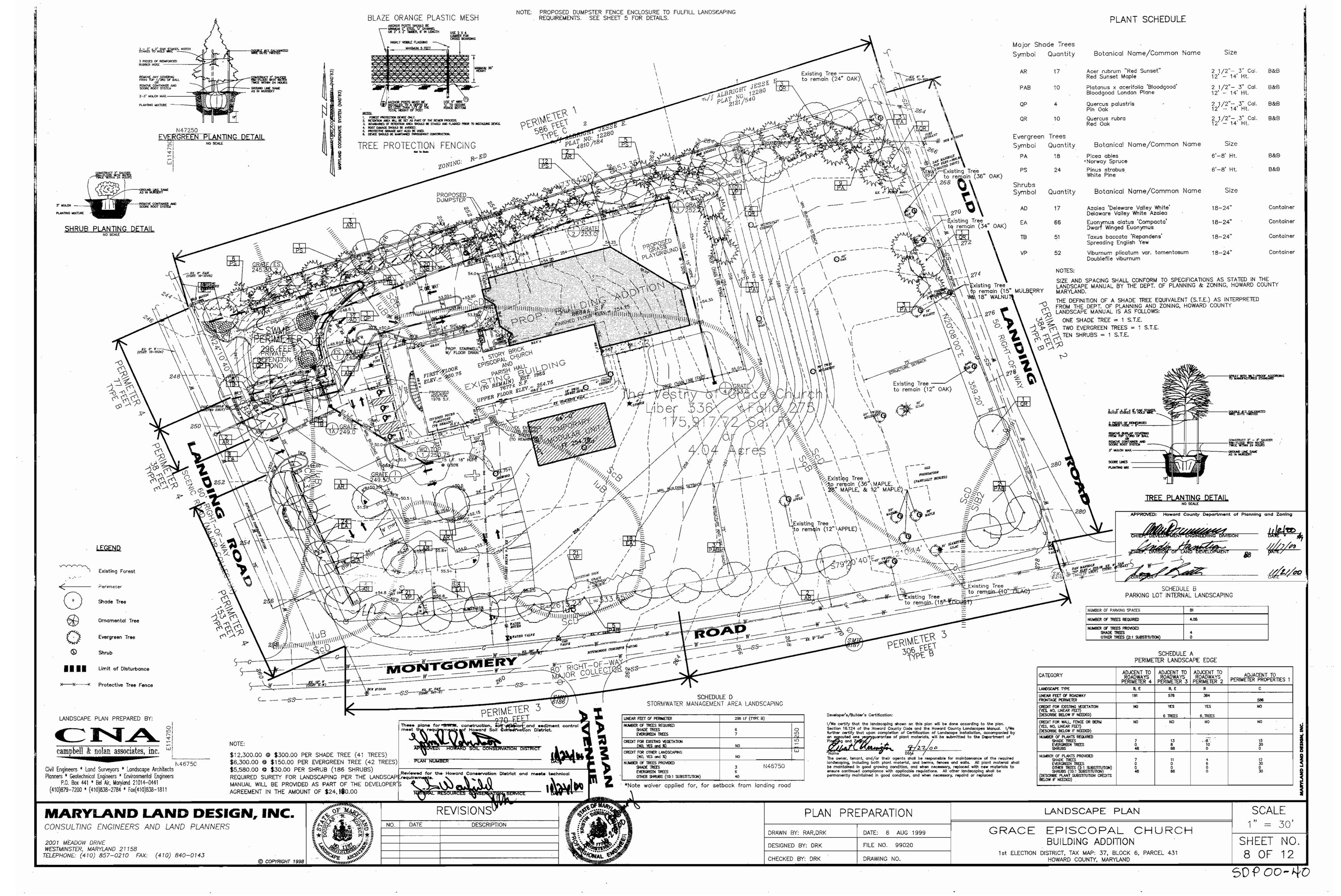
1. STANG-OUT THE LOCATION OF THE STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO COMPECT HILET AND OUTLET PIPES TO UNIT. INSTALL A 12" DEEP (OR AS REQUIRED) LAYER OF COMPACTED AGORIEGATE SUBBASE AT THE BOTTOM OF THE ENCAVATION. INSTALL TRENCH BOX OR SHORMS AS NEEDED.

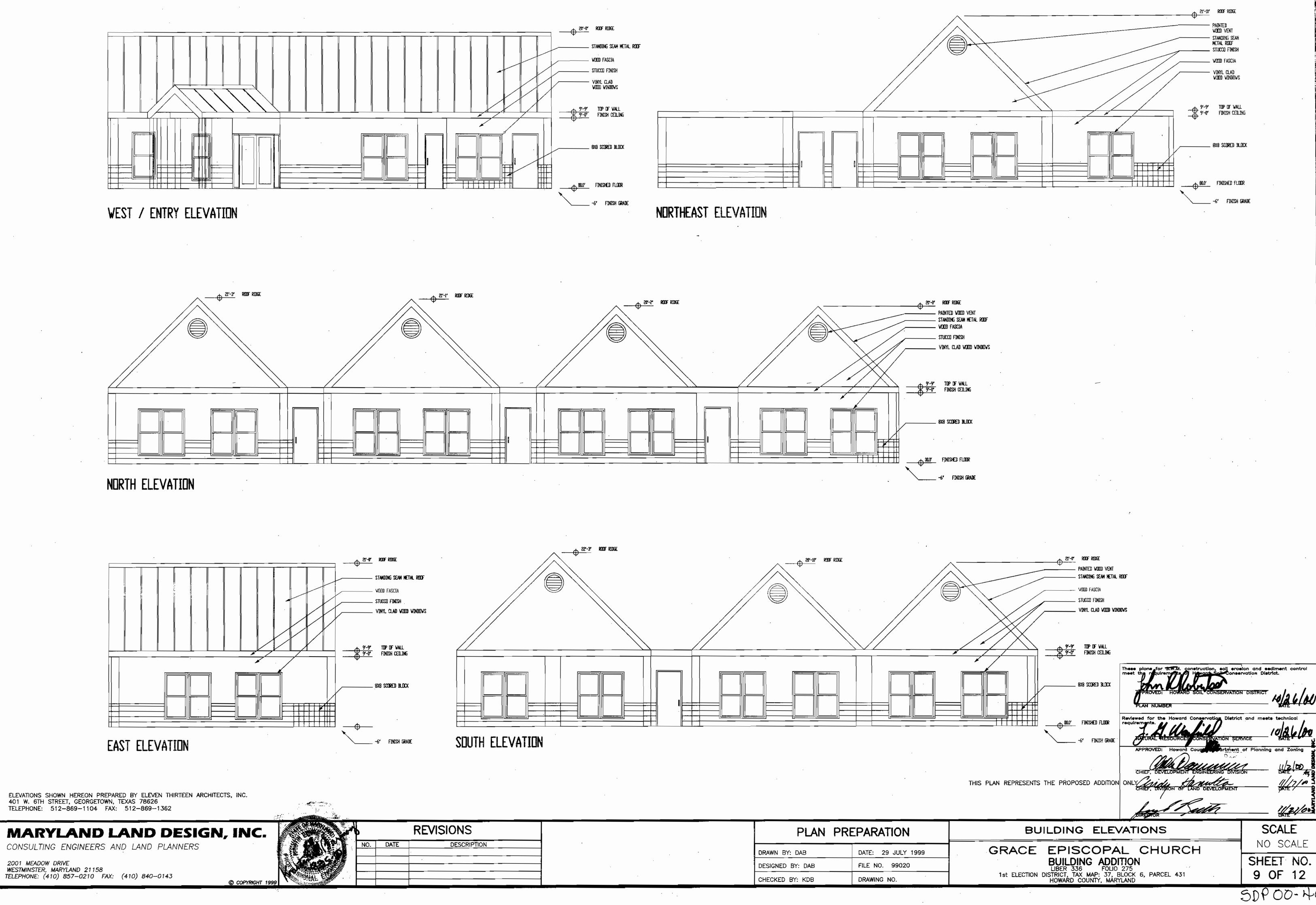
2. CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM BASE OF THE STORAGE CHAMBER (BOTTOM OF UNIT'S SLAB) TO THE INVERT OF STORMOEPTOR BYPASS CHAMBER INLET ELEVATION (FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN INVERT ELEVATION TO DETERMINE TO SUBBASE ELEVATION. CHECK ELEVATION OF RISTALLED. SUBBASE AND ADJUST AS NEEDED.

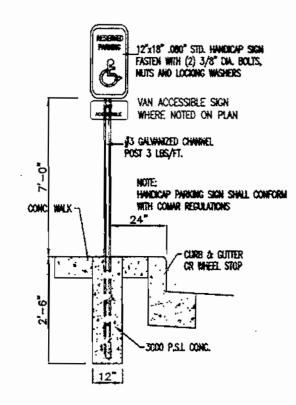
(FOR STORMCEPTOR MODELS STC-900, STC-1200 AND STC-1800 SKIP STEP 5 AND GO TO STEP 5 STC-7200) CHECK THAT SECTION IS SET FLUSH, LEVEL AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON THE TRANSITION SLAB SPIGOT AND COAT WITH LUBBICATING GREASE (PROVIDED IN

STORM DRAIN PROFILES AND DETAILS

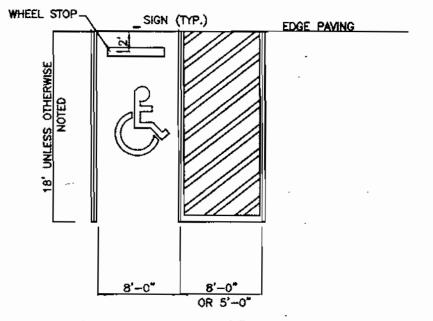
5DP00-40





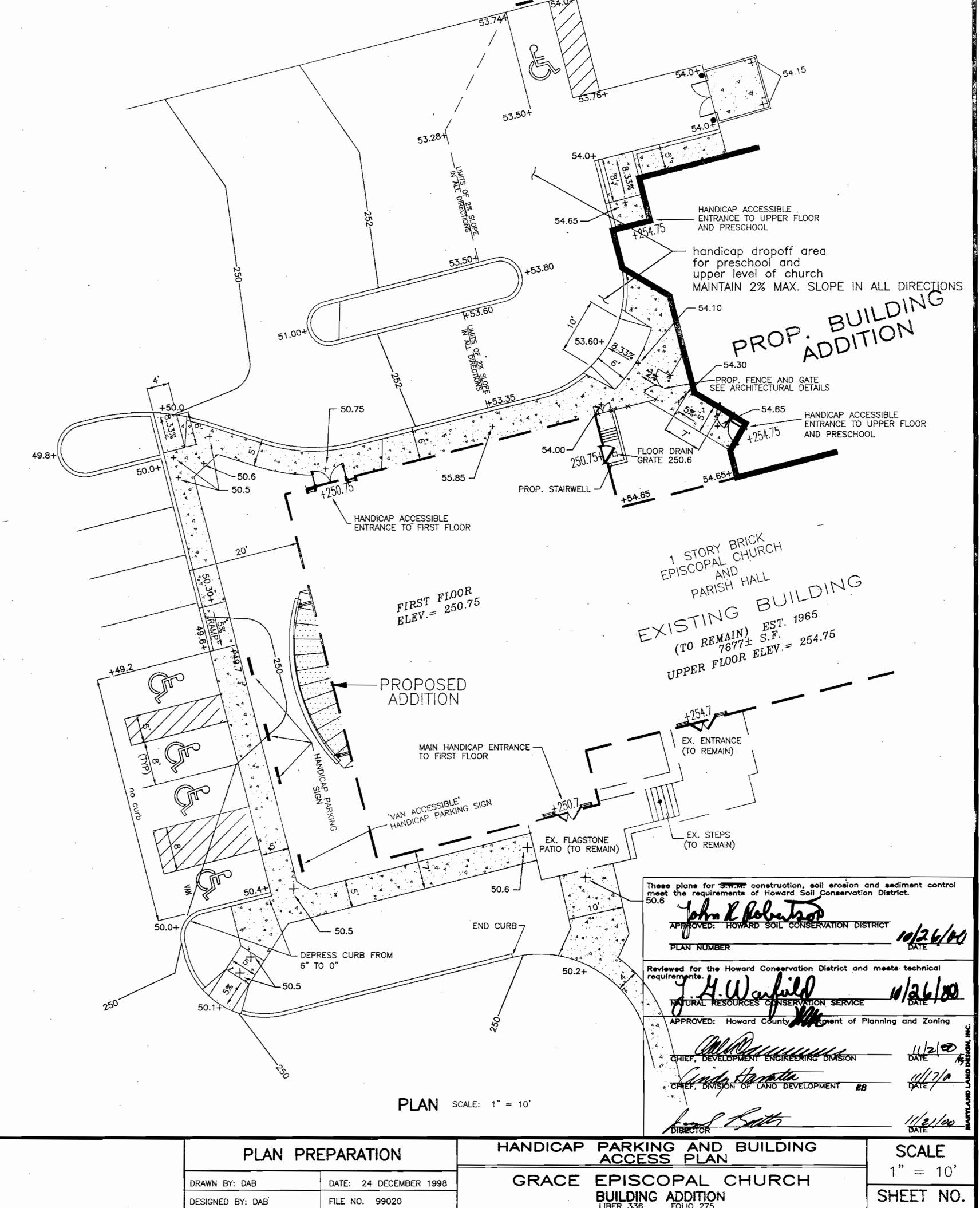


HANDICAP PARKING SIGN DETAIL NOT TO SCALE



"VAN ACCESSIBLE SPACES SHALL BE 8'0". SEE PLAN FOR EXACT SPACE SIZE. VAN ACCESSIBLE SPACE TO HAVE SIGN DENOTING "VAN ACCESSIBLE" SPACE.

TYPICAL HANDICAP PARKING DETAIL



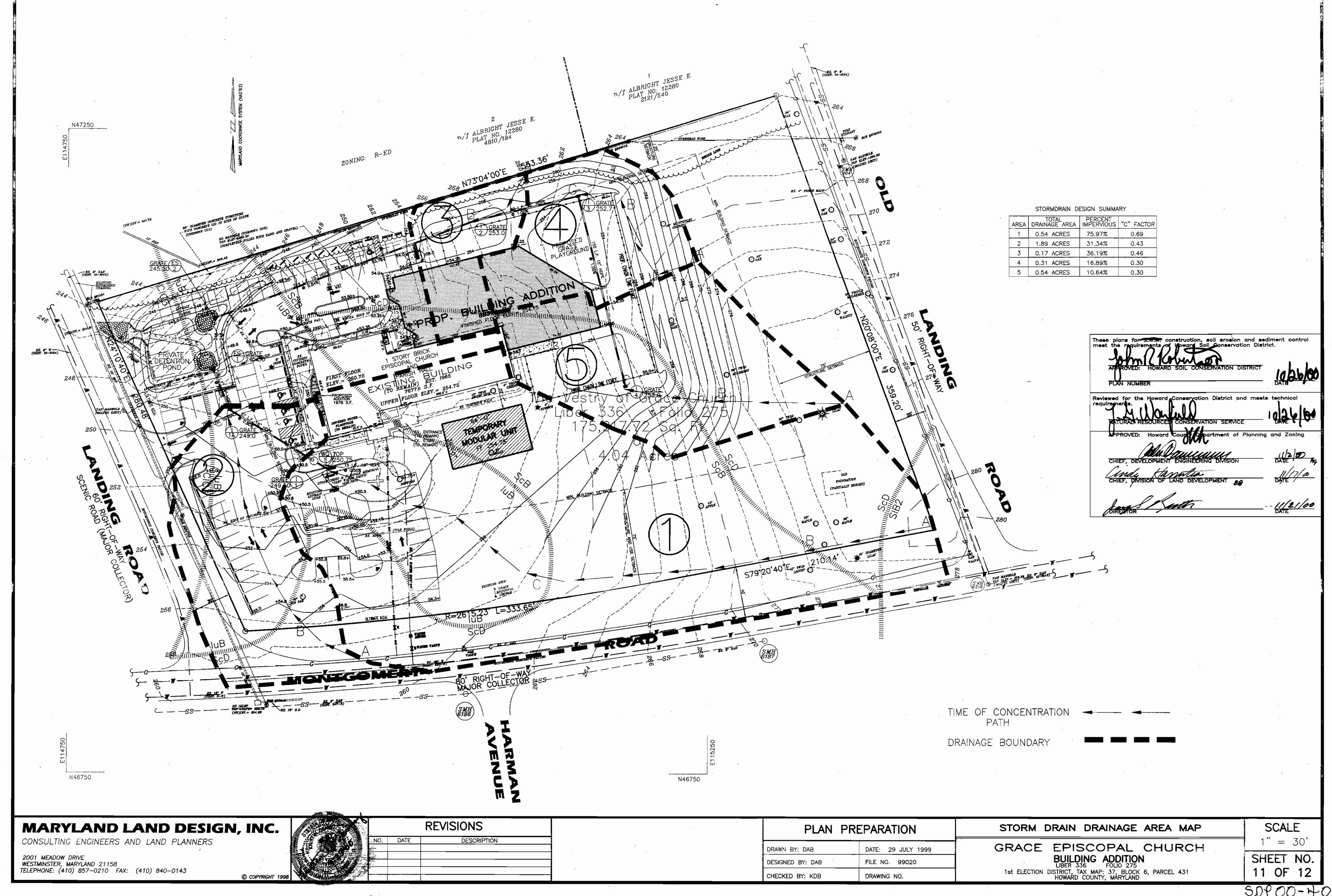
MARYLAND LAND DESIGN, INC. CONSULTING ENGINEERS AND LAND PLANNERS

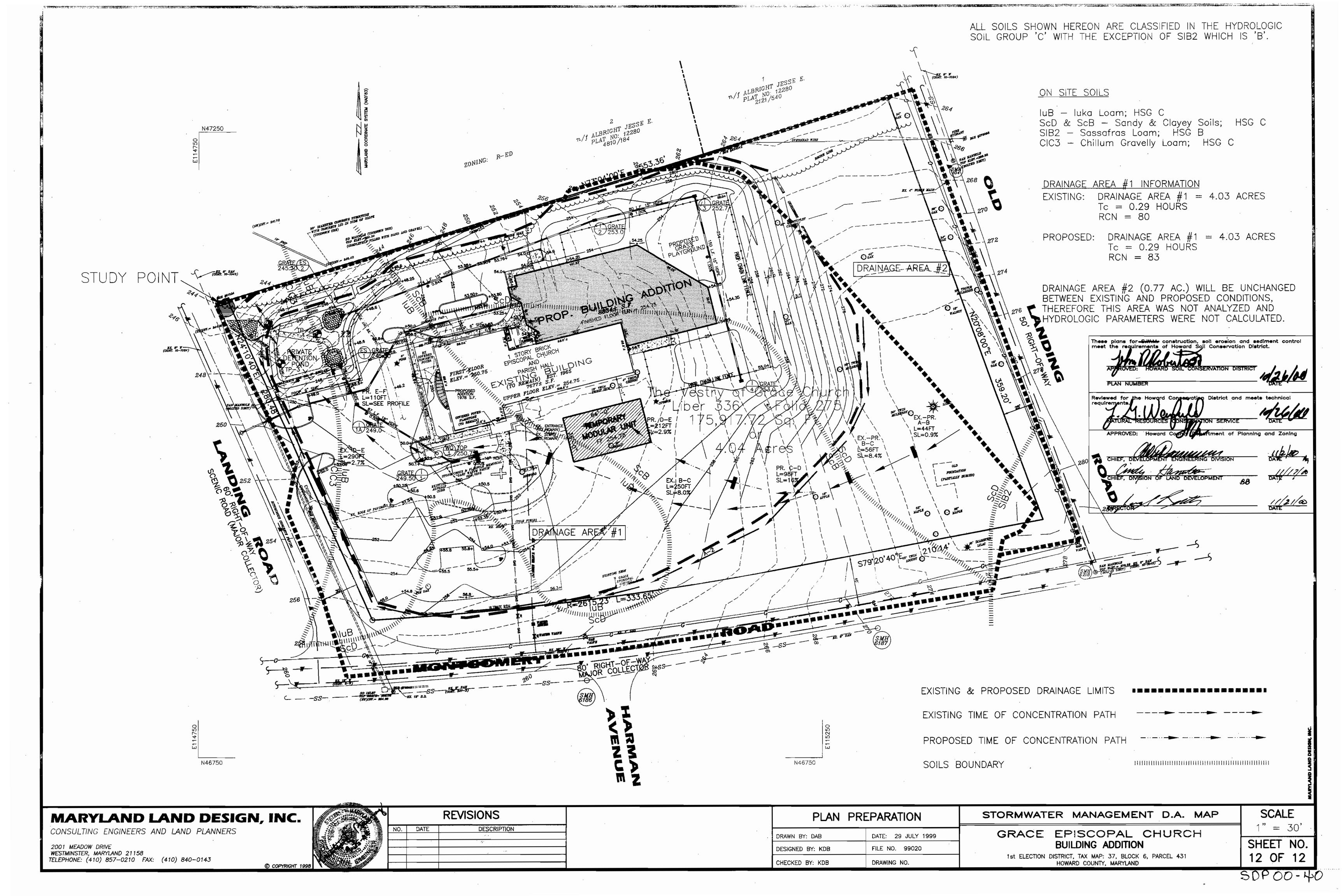
2001 MEADOW DRIVE WESTMINSTER, MARYLAND 21158 TELEPHONE: (410) 857-0210 FAX: (410) 840-0143

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	NO.	DATE	DESCRIPTION	
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PLAN F	PREPARATION	HANDICAP PARKING AND BUILDING ACCESS PLAN		
DRAWN BY: DAB	DATE: 24 DECEMBER 1998	GRACE EPISCOPAL CHURCH	1" = 1	
DESIGNED BY: DAB	FILE NO. 99020	BUILDING ADDITION LIBER 336 FOLIO 275	SHEET N	
CHECKED BY: KDB	DRAWING NO.	1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431 HOWARD COUNTY, MARYLAND	10 OF	





COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERRED TO THE SYSTEM OF COORDINATES ESTABLISHED BY THE HOWARD COUNTY GEODETIC CONTROL SYSTEM (NAD'83), AND ARE BASED ON THE FOLLOWING TRAVERSE STATIONS

(TRANSLATED METERS TO FEET)

564321.657 562916.023

SITE ANALYSIS DATA:

Proposed uses for site and structures: existing building— sanctuar

2. PARKING REQUIREMENTS: 158 CHILDREN MAXIMUM PER BA 98-16E&V.

B) SECTION 133,D.7, H, EXISTING RELIGIOUS/SUNDAY SCHOOL ACTIVITIES - NO FIXED SEATS

10) APPLICABLE DPZ FILE REFERENCES: BA CASE NO. 98-16 E&V
SPECIAL EXCEPTION FOR A STRUCTURE USED PRIMARILY FOR RELIGIOUS ACTIVITIES AND TO ENLARGE THE
EXISTING DAY CARE CENTER.
VARIANCES AS FOLLOWS:

(i) REDUCE THE 75 FOOT USE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR
LANDING ROAD TO 1 FOOT FOR 30 PARKING SPACES AND TO 17 FEET FOR DRIVE

11) LANDING ROAD IS A DESIGNATED SCENIC ROAD. DEVELOPMENT ABUTTING THIS ROAD WILL BE DESIGNED SO AS TO MINIMIZE ANY IMPACT ON SCENIC VIEWS FROM THE ROAD AND COMPLY WITH ALL REGULATIONS

12) ALL PROPOSED OUTDOOR LIGHTING WILL BE IN ACCORDANCE WITH SECTION 134 OF THE ZONING REGULATIONS FOR HOWARD COUNTY AND SHALL BE DIRECTED AWAY FROM ADJOINING RESIDENTIAL PROPERTY.

14) IN ACCORDANCE WITH SECTION 18.1202 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL, FOREST CONSERVATION OBLIGATIONS FOR THIS SITE HAVE BEEN MET BY THE FILING OF A DECLARATION OF INTENT FOR THE CLEARING OF LESS THAN 40,000 SQ. FT. OF FOREST ON A

THE ABOVE ITEMS ARE ALL POSSIBLE SECOND PHASE IMPROVEMENTS. THE SECOND PHASE CONSTRUCTION IS NOT ANTICIPATED IN THE NEAR FUTURE. AN AMENDED SITE PLAN SHALL BE PREPARED SHOULD THIS PHASE OCCUR. A FUTURE BOARD OF APPEALS HEARING SHALL BE HELD TO ALLOW FOR THE PHASING OF THESE FEATURES.

15) THIS SITE PLAN DOES NOT INCLUDE THE FOLLOWING FEATURES APPROVED UNDER BA CASE NO. 98-16E&V.

16) THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK AT 410-313-1880.

13) LANDSCAPING FOR THIS SITE WILL BE PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. REQUIRED SURETY IN THE AMOUNT OF \$24,180.00 WILL BE PROVIDED WITH THE DEVELOPER'S AGREEMENT.

AISLES;
REDUCE THE 20 FOOT REAR LOT LINE USE SETBACK TO 10 FEET FOR 11
PARKING SPACES;
REDUCE THE 75 FOOT USE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR
OLD LANDING ROAD TO 20 FEET FOR 62 PARKING SPACES AND TO 22 FEET
FOR DRIVE AISLES;
REDUCE THE 75 FOOT STRUCTURE SETBACK FROM THE PUBLIC RIGHT-OF-WAY
FOR MONTGOMERY ROAD TO 59 FEET FOR THE ADDITION TO THE EX. BUILDING,
REDUCE THE 75 FOOT USE SETBACK FROM THE PUBLIC RIGHT-OF-WAY FOR
MONTGOMERY ROAD TO 8 FEET FOR 24 PARKING SPACES, AND REDUCE TO
10 FEET FOR DRIVE AISLES.

A) SECTION 133,D.7, A, DAYCARE CENTER; M-F 7:00 A.M.-6:00 P.M. OPERATION

2400 S.F. / 100 x 10 = 24 SPACES

4 SPACES / 100 PARKING SPACES

(3 HANDICAP + 1 VAN ACCESSIBLE)

3.3 SPACES / 1000 OFFICE AREA

TOTAL SPACES REQUIRED = 60 SPACES

7:00 AM - 9:00 PM 7 DAYS / WEEK

2700 SF OFFICE / 1000 x 3.3 = 9 SPACES

9) BUILDING COVERAGE OF SITE: 0.38 ACRES AND 8.42% OF GROSS AREA.

TOTAL PROJECT AREA: 4.040 AC OR 1975,917.72 S.F.

SANCTUARY/SUNDAY SCHOOL/OFFICES = 7677 S.F. DAYCARE = 8834 S.F. 9030 S.F.

3.0 SPACES / 1000 S.F.

10 SPACES / 1000 S.F.

8834 S.F. / 3 = 27 SPACES

LIMITS OF DISTURBED AREA: 167,270 S.F. OR 3.84 ACRES PRESENT ZONING: R-ED

AREA OF PLAN SUBMISSION: 4.040 ACRES

NUMBER OF PARKING SPACES REQUIRED:

1. EXISTING PARKING SPACES: 50

WEEKENDS ONLY

C) HANDICAP REQUIREMENTS:

8) NUMBER OF PARKING SPACES PROVIDED ON SITE: 60 SPACES (INCLUDES 5 HANDICAP SPACES)

10 FEET FOR DRIVE AISLES.

a. 5744 S.F. COMMUNITY MINISTRY ADDITION b. 3499 S.F. GYMNASIUM

c. GARDEN COURT WITH FOUNTAIN

d. TWO TRASH DUMPSTERS e. 129 PARKING SPACES

D) CHURCH OFFICES:

1382742.880

2) ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD'88). WITH LOCAL REFERENCE TO THE FOLLOWING HOWARD COUNTY GEODETIC CONTROL SYSTEM STATION:

DESIGNATION ELEVATION (SFT) 256.965 257.772

SDP 00-40 SITE DEVELOPMENT PLAN

for GRACE EPISCOPAL CHURCH BUILDING ADDITION HOWARD COUNTY, MARYLAND

SHEET INDEX

- TITLE SHEET SHEET 1:
- SHEET EXISTING CONDITIONS & DEMOLITION PLAN
- SHEET SITE PLAN
- GRADING, SWM & SEDIMENT CONTROL PLAN
- MISCELLANEOUS NOTES AND DETAILS
- STORMWATER MANAGEMENT NOTES AND DETAILS **SHEET**
- STORM DRAIN PROFILE AND DETAILS **SHEET**
- LANDSCAPE PLAN SHEET 8:
- BUILDING ELEVATIONS SHEET
- HANDICAP PARKING AND BUILDING ACCESS PLAN SHEET
- STORM DRAIN DRAINAGE AREA MAP SHEET
- STORMWATER MANAGEMENT DRAINAGE AREA MAP

PROJECT OWNER/DEVELOPER:

THE VESTRY OF GRACE CHURCH 6725 MONTGOMERY ROAD ELKRIDGE, MD 21075 TELEPHONE: 410-796-3270

CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AT LEAST 24. HOURS PRIOR TO STARTING ANY OF THE WORK SHOWN HEREON.

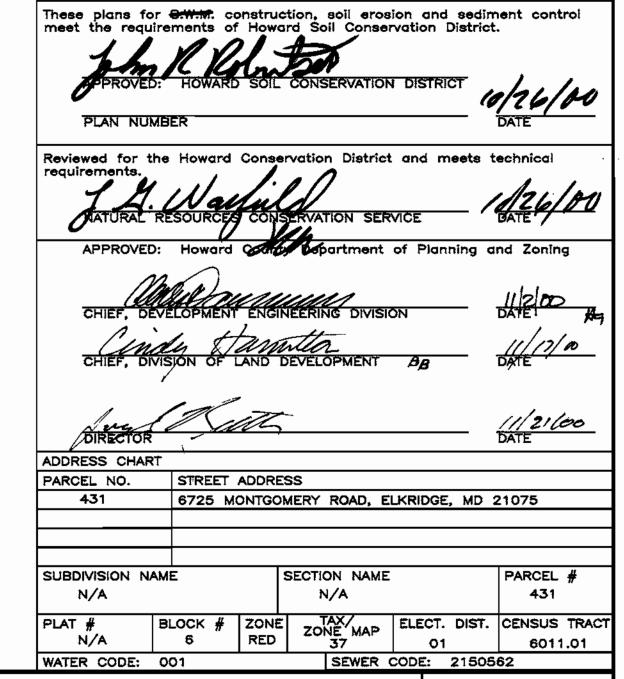
VICINITY MAP

THE CONTRACTOR SHALL NOTE THAT IN CASE OF DISCREPANCY BETWEEN ANY SCALED DIMENSIONS AND THE FIGURED DIMENSIONS SHOWN ON THESE PLANS. THE FIGURED DIMENSIONS SHALL GOVERN.

ADMINISTRATION AND THE HOWARD COUNTY PLUMBING CODE. UNLESS OTHERWISE NOTED.

- CONTRACTOR SHALL MEET ALL EXISTING IMPROVEMENTS SMOOTHLY FOR LINE, GRADE, AND FINISH 4. ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND OF THE MARYLAND STATE HIGHWAY
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM SUCH WORK. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE BASE BID.
- THE CONTRACTOR SHALL INSPECT THE SITE TO DETERMINE IF ANY TREES, PAVING, ETC. ARE TO BE REMOVED PRIOR TO PLACING A BID ON SUCH ITEMS.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE LOCATIONS ARE TAKEN FROM EXISTING RECORDS AND DO NOT REPRESENT FIELD-VERIFIED LOCATIONS. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 A MINIMUM OF 5 WORKING DAYS PRIOR TO DIGGING. THE CONTRACTOR SHALL CONFIRM TO HIS OWN SATISFACTION THE LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR PLACEMENT OF MATERIALS. IF ANY CONFLICT IS FOUND BETWEEN UNDERGROUND UTILITIES AND THE PROPOSED LOCATION OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT MARYLAND LAND DESIGN, INC. AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE OR DISRUPTION OF SERVICE SHALL BE AT THE EXPENSE OF THE CONTRACTOR. RELOCATION OF ANY EXISTING UTILITIES, SHALL BE AT THE EXPENSE OF THE OWNER. THE CONTRACTOR SHALL COORDINATE RELOCATION OF THESE
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES OUTSIDE THE LIMIT OF DISTURBANCE AT ALL TIMES DURING
- CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT SCHEDULED FOR REMOVAL OR DEMOLITION COST OF REPAIR TO EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE BASE BID. ALL EXISTING SITE FEATURES NOT BEING RETAINED SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED LOCATION. ANY DAMAGE TO OFF SITE ROADS. RIGHTS OF WAY, OR ADJACENT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE
- THE CONTRACTOR SHALL CLEAR THE PROJECT SITE OF ALL TREES, PAVING, STRUCTURES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON THE PLAN.
- 11. ONLY SUITABLE MATERIAL SHALL BE USED AS FILL AND ALL FILL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN THE SOILS REPORT PREPARED FOR THIS SITE OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. ALL 2:1 SLOPES SHOWN HEREON, EXCEPTING THOSE ASSOCIATED WITH LANDSCAPE BERMING, ALL GRADING UNDER PROPOSED PAVING, AND ALL FILL AND COMPACTION SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL PROVIDE MINIMUM 4 FOOT BENCH AT EDGE OF PAVING IN FILL AREAS. MAXIMUM SLOPE OF BENCH SHALL BE 4% (1/4 IN. PER FOOT).
- 13. MAXIMUM SLOPE SHALL BE 2 HORIZONTALLY TO 1 VERTICALLY.
- 14. CONTRACTOR SHALL PLACE 4" MINIMUM TOPSOIL IN LANDSCAPE AREAS. TOPSOIL SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL PLACE A WITNESS POST AT THE TERMINUS OF ALL UTILITY STUBS. ALL UTILITIES INSTALLED SHALL RECEIVE FULL TRENCH COMPACTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 FOOT OF PROTECTIVE FILL OVER STORM DRAIN PIPES DURING
- 18. ALL AREAS NOT BEING PAVED OR RECEIVING BUILDING COVERAGE SHALL BE STABILIZED IN ACCORDANCE WITH THE PLANS APPROVED BY THE HOWARD SOIL CONSERVATION DISTRICT.
- BOARD OF APPEAL CASE NUMBER BOA 00-29E, DATED 8/29/00, GRANTED A 2 YEAR EXTENSION TO OBTAIN A BUILDING PERMIT (SEPT. 28, 2002) AND SEPT. 28, 2003 FOR COMPLETION OF
- SUBSTANTIAL CONSTRUCTION OF THE SITE.

 Per a memo dated 1/29/03 from the Zoning Administration the increase in size and change of footprint of the daycare addition is departmentally approved.



MARYLAND LAND DESIGN, INC.

CONSULTING ENGINEERS AND LAND PLANNERS

2001 MEADOW DRIVE WESTMINSTER, MARYLAND 21158 TELEPHONE: (410) 857-0210 FAX: (410) 840-0143



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		REVIS	IONS
NO.	DATE	DESCRIP	TION
1	2-6-03	NOTE ADDED	PER COMMENTS

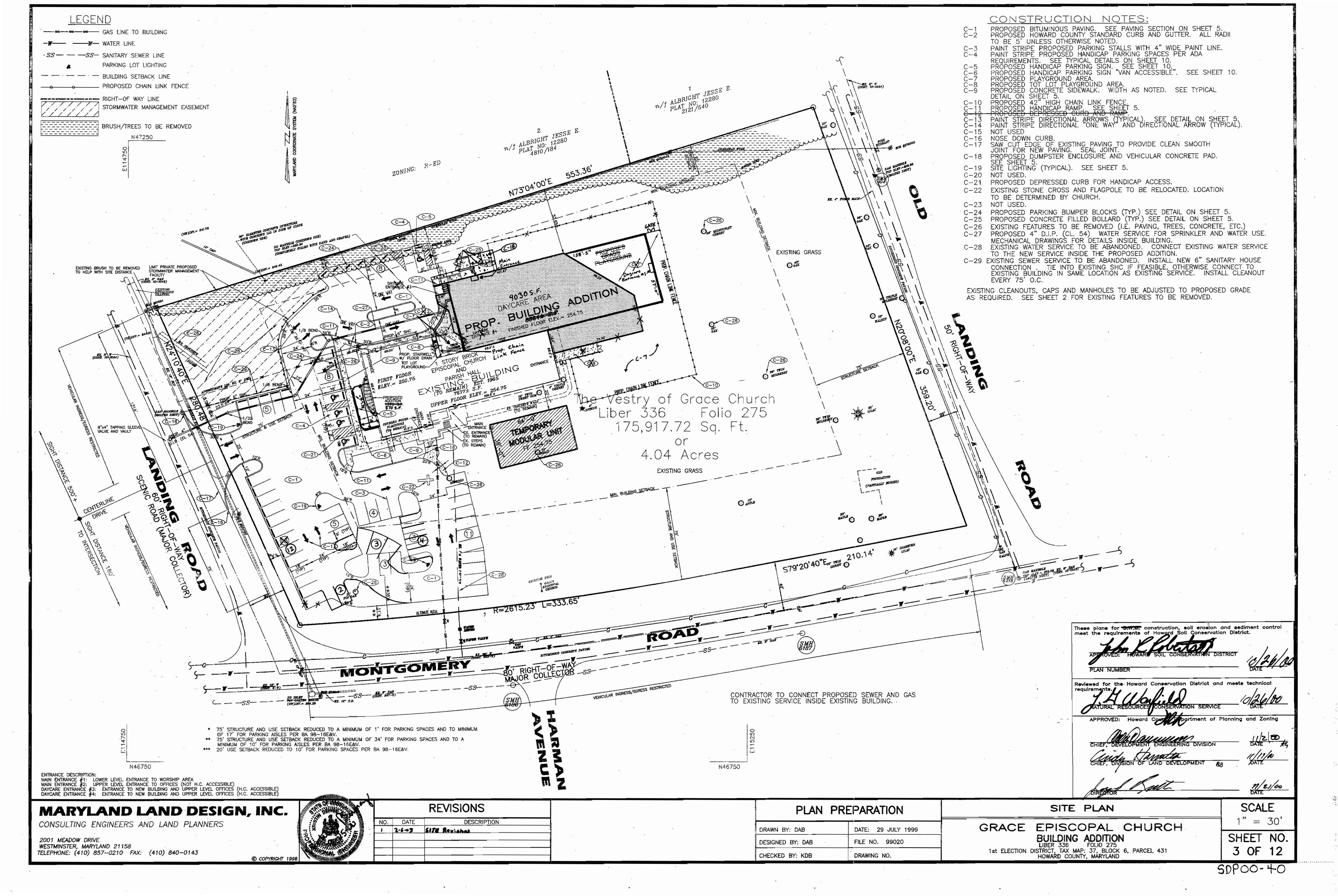
PLAN PRE	PARATION
DRAWN BY: DAB	DATE: 29 JULY 1999
DESIGNED BY: DAB	FILE NO. 99020
CHECKED BY: KDB	DRAWING NO.

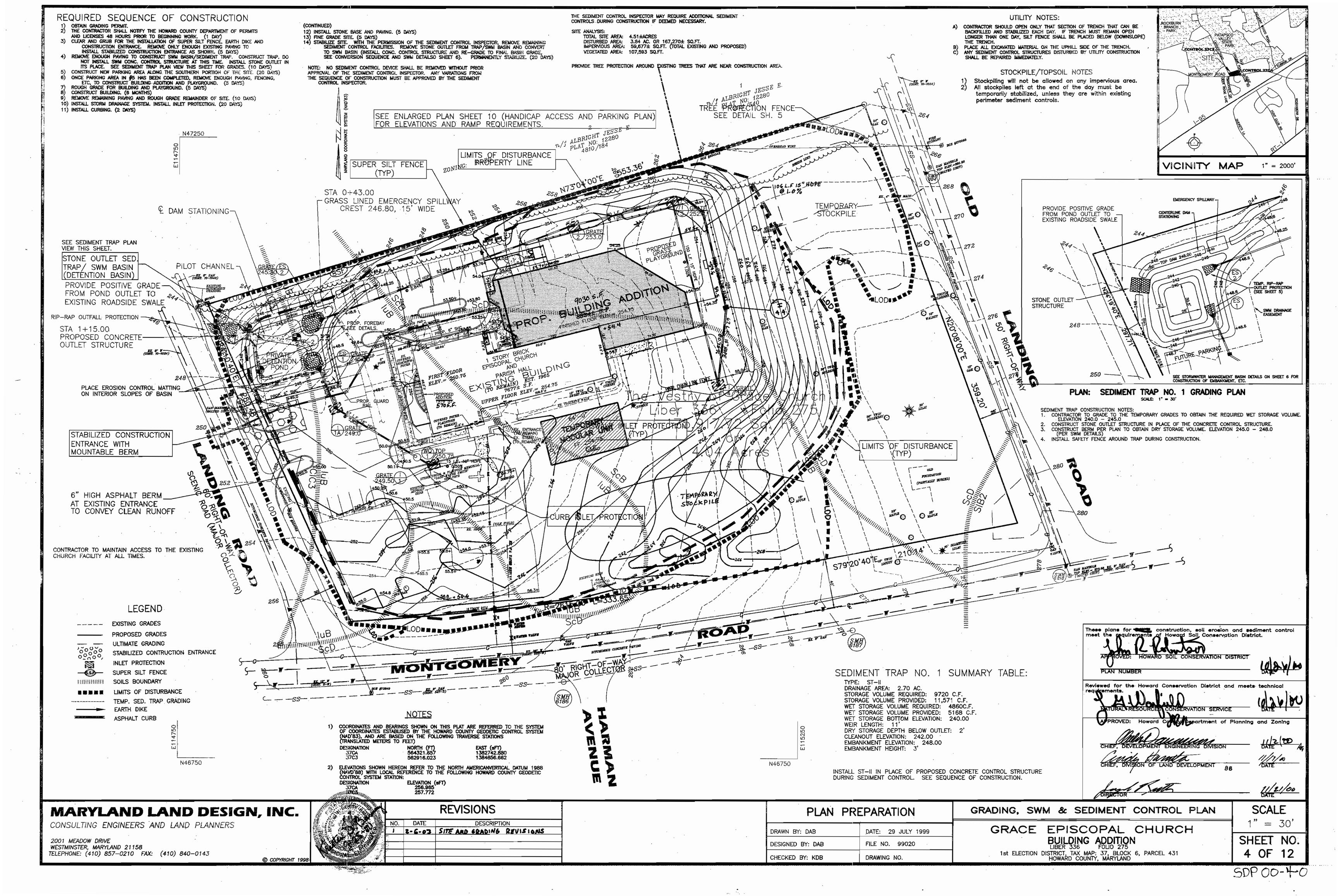
GRACE EPISCOPAL CHURCH **BUILDING ADDITION** LIBER 336 FOLIO 275

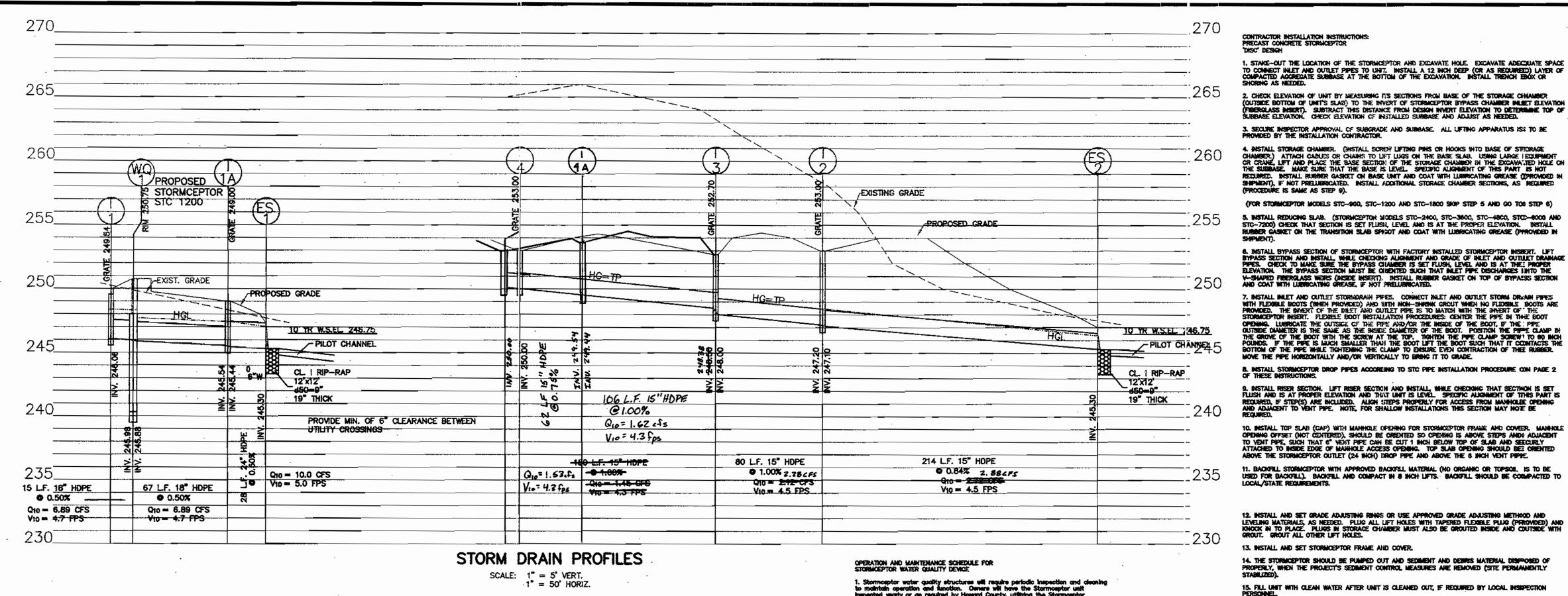
1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431
HOWARD COUNTY, MARYLAND

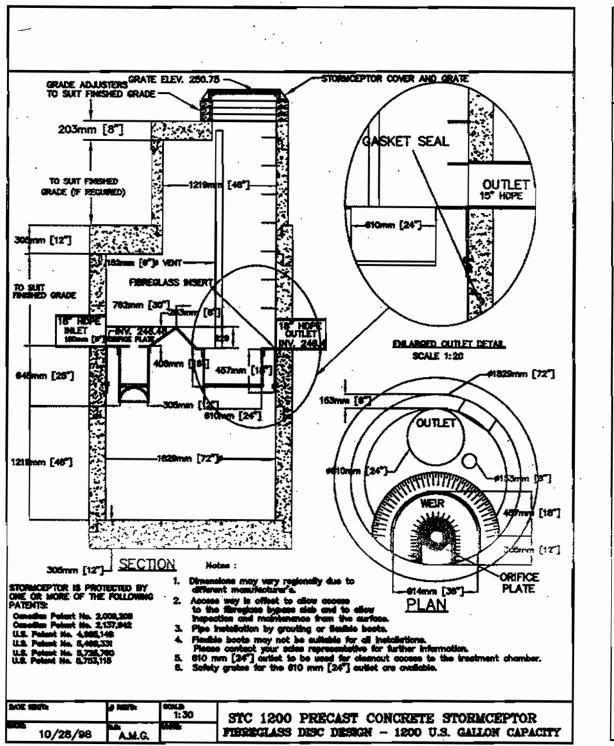
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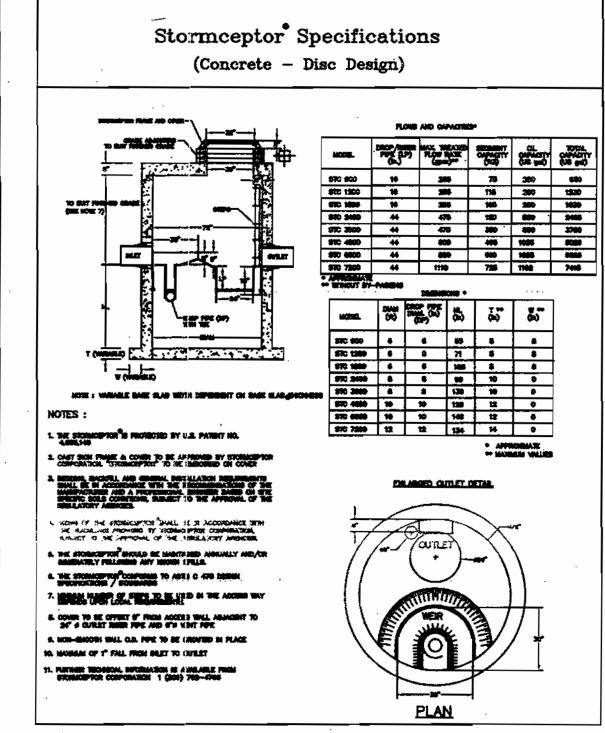
SCALE NO SCALE SHEET NO. 1 OF 12











STORM DRAIN STRUCTURE SCHEDULE

249.*44*

STRUCTURE	GRATE	INV. IN	INV. OUT	TYPE
I — 1	249.00		246.56	*MODIFIED TYPE S, DOUBLE GRATE (MD 379.03)
I-1A	249.00	245.68	245.58	*MODIFIED TYPE S, DOUBLE GRATE (MD 379.03)
1-2	253.00	247.20	247.10	PRECAST YARD INLET (MD-381.02)
1-3	252.70	248.50 248.3	⁸ 248.00	PRECAST YARD INLET (MD-381.02)
1-4	253.00		250.00	PRECAST YARD INLET (MD-381.02)
WQ -1	250.75	246.48	246.40	STORMCEPTOR STC 1200
ES-1			245.30	HDPE END SECTION
ES-2			245.30	HDPE END SECTION
*MODIFIED TO	MAKE LES	S, THAN STAI	NDARD DEPTH	

PRECAST XARBINDALET (MD-381.02) MARYLAND LAND DESIGN, INC.

253.75 249.54

2001 MEADOW DRIVE WESTMINSTER, MARYLAND 21158 TELEPHONE: (410) 857-0210 FAX: (410) 840-0143

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REVISIONS 2-6-03 STORM DRAIN REVISIONS



Owner shall retain and make Stormosphor Inspection/Monitoring Forms available to Howard County officials upon their request.

PLAN PREPARATION DRAWN BY: DAB DATE: 29 JULY 1999 DESIGNED BY: DAB FILE NO. 98030 CHECKED BY: KDB DRAWING NO.

STORM DRAIN PROFILES AND DETAILS

GRACE EPISCOPAL CHURCH **BUILDING ADDITION**

comstruction, soil erosion and sediment control

Howard Soil Conservation District.

SCALE NO SCALE SHEET NO. 7 OF 12

8. INSTALL BYPASS SECTION OF STORMCEPTOR WITH FACTORY INSTALLED STORMCEPTOR INSIERT. LIFT BYPASS SECTION AND INSTALL, WHILE CHECKING ALIGNMENT AND GRADE OF BLET AND OUTLIET DRAWAGE PIPES. CHECK TO MAKE SURE THE BYPASS CHAMBER IS SET FLUSH, LEVEL AND IS AT THE! PROPER ELEVATION. THE BYPASS SECTION MUST BE OBSENTED SUCH THAT INLET PIPE DISCHARGES ENTO THE V-SHAPED FRENGLASS WERS (INSEX INSERT). INSTALL RUBBER GASKET ON TOP OF BYPASS SECTION AND COAT WITH LUBRICATING GREASE, IF NOT PRELIBINGATED. 7. INSTALL INLET AND OUTLET STORMORASH PIPES. CONNECT INLET AND OUTLET STORM DRAIN PIPES WITH FLEXURLE BOOTS (WHEN PROVIDED) AND WITH NON-SHRINK CROLIT WIEN NO FLEXURE BOOTS ARE PROVIDED. THE INVEST OF THE BLET AND OUTLET PIPE IS TO MATCH WITH THE INVEST OF THE STORMORPTOR INSERT. FLEXURE BOOT INSTALLATION PROCEDURES: CENTER THE PIPE IN THE BOOT 8. INSTALL STORMCEPTOR DROP PIPES ACCORDING TO STC PIPE INSTALLATION PROCEDURE CON PAGE 2 OF THESE INSTRUCTIONS. REQUIRED, IF STEP(S) ARE INCLUDED. ALIGN STEPS PROPERLY FOR ACCESS FROM MANHOLES OPENING AND ADJACENT TO VENT PIPE. NOTE, FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOTE BE 11. BACKFILL STORMCEPTOR WITH APPROVED BACKFELL MATERIAL (NO ORGANIC OR TOPSON. IS TO BE USED FOR BACKFILL.). BACKFILL AND COMPACT IN 8 INCH LIFTS: BACKFILL SHOULD BE COMPACTED TO LOCAL/STATE REQUIREMENTS. 12. INSTALL AND SET GRADE ADJUSTING RINGS OR USE APPROVED GRADE ADJUSTING METHODD AND LEVELING MATERIALS, AS NEEDED. PLUG ALL LIFT HOLES WITH TAPPERED FLEXIBLE PLUG (PEROVIDED) AND KNOCK IN TO PLACE. PLUGS IN STORAGE CHAMBER MUST ALSO BE GROUTED INSIDE AND COUTSIDE WITH GROUT. GROUT ALL OTHER LIFT HOLES. 14. THE STORMCEPTOR SHOULD BE PUMPED OUT AND SEDIMENT AND DEBRIS MATERIAL DISPROSED OF PROPERLY, WHEN THE PROJECT'S SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMANENTLY STABILIZED). 1. Stormceptor water quality structures will require periodic inspection and cleaning to maintain operation and function. Owners will have the Stormceptor unit impected yearly or de required by Howard County, utiliting the Stormceptor inspection/Monitoring Form. Inspections can be done by using a clear Pleafglas tube ("sludge") to entract a water column sample. When sediment depths exceed the specified level (Table 9 of Technical Manual) then cleaning of the unit is required. 15. FILL UNIT WITH CLEAN WATER AFTER UNIT IS CLEANED OUT, IF REQUIRED BY LOCAL INSIPECTION PERSONNEL. 18. FINAL INSPECTION. FOR TECHNICAL INFORMATION CALL STORMCEPTOR CORPORATION AT 1-800-782-4703 Stormosptor water quality structures must will be checked and cleaned immediately after petroleum spills, contact appropriate regulatory agencies. Intet and autiet pipes must be checked for any obstructions and if any obstructions are found they must be removed. Structural parts of the Stormospher will be repaired as needed.

OPENING. LUBRICATE THE OUTSIDE OF THE PIPE AND/OR THE BISIDE OF THE BOOT, IF THE PIPE OUTSIDE DIAMETER IS THE SAME AS THE INSIDE DIAMETER OF THE BOOT. FOSTION THE PIPE CLAMP IN THE GROVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP SCREW! TO SO MICH POUNDS. IF THE PIPE IS MUCH SMALLER THA! THE BOOT LIFT THE BOOT SUCH THAT IT CONTACTS THE BOTTOM OF THE PIPE WHILE TIGHTENING THE CLAMP TO ENSURE EVEN CONTRACTION OF THEE RUBBER. MOVE THE PIPE HORIZONTALLY AND/OR VERTICALLY TO BRING IT TO GRADE. 9. INSTALL RISER SECTION. LIFT RISER SECTION AND INSTALL, WHILE CHECKING THAT SECTION IS SET FLUSH AND IS AT PROPER ELEVATION AND THAT UNIT IS LEVEL. SPECIFIC ALIGNMENT OF TITHIS PART IS 10, INSTALL TOP SLAB (CAP) WITH MANHOLE OPENING FOR STORMCEPTOR FRAME AND COVEER, MANHOLE OPENING OFFSET (NOT CENTERED), SHOULD BE CREATED SO CPERING IS ABOVE STEPS AND ADJACENT TO VENT PIPE, SUCH THAT 6° VENT PIPE CAN BE CUT 1 INCH BELOW TOP OF SLAB AND SECURLY ATTACHED TO INSIDE EDGE OF MANHOLE ACCESS OPENING. TOP SLAB OPENING SHOULD BEE ORIENTED ABOVE THE STORMCEPTOR OUTLET (24 INCH) DROP PIPE AND ABOVE THE 6 INCH VENT PIPPE.

Precest concrete adjustment units should be installed to set the frame and cover at the required elevation. The adjustment units should be iaid in a full bed of morter with successive units being joined using section recommended by the manufacturer. Frames for the cover should be set in a full bed of morter at the sevetion specified. 1. STAKE-OUT THE LOCATION OF THE STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO CONNECT WHET AND OUTLET PIPES TO UNIT. INSTALL A 12' DEEP (OR AS REQUIRED) LAYER OF COMPACTED ADDREGATE SUBBASE AT THE BOTTOM OF THE EXCAVATION. INSTALL TRENCH BOX OR

Excaverion for the ineighten of the Stormagner? should conform to state highway or local specifications. Topsoil that is removed during the ascavation for the Stormagner? should be stockpled in designated great and should not be inheed with subset or other materials. Topsoil attackpless, and the general site preparation for the installation of the Stormagner? should conform highway or local specifications.

In areas with a high mater table, continuous dewatering should be provided to ensure that the excovation is stable and free of water.

The concrete Stormosptor? Is installed in sections in the following sequence:

2 pose soo:
3. treatment chamber section(s)
4. transition slob (if required)
5. by—pase section
6. connect hiet and outlet pipes
7. transition slob
8. maintenance cooses way
9. frame and access cover

STC 900, STC 1200, STC 1800

The Stormcaptor should not be installed on frozen ground. Exequation should extend a minimum of 11 inches from the precent concrete surfaces plus on allowance for shoring and bracing where required. If the bottom of the association provides on unsuitable foundation additional escawation may be required.

A 6 to 12 both layer of granular material (conforming to local or state highway backfit specifications) should be installed, compacted, and leveled at the bottom of the excavation to the proper elevation for the installation of the interceptor base.

Backfill material should conform to state highway or local specifications. Generally, backfill material should be placed in uniform layers not exceeding 12 inches in depth. Each layer should be compacted to 95% of the maximum dry density. Backfill is not to contain topsoil.

The precede base should be placed level at the specified grade. The entire base should be in contact with the underlying compacted granular material. Subsequent sections, complete with joint seals, should be installed in accordance with the precess concrete manufacturer's recommendations.

Adjustment of the Stormosptor? our be performed by lifting the upper sections—free of the excavated area, re-leveling the base, and re-installing the sections. Damaged sections and gastets should be replaced. Once the Stormosptor? has been constructed, the lift holes should be plugged with mortar.

Once the by-pass section has been attached to the treatment chamber the down pipe and riser pipe on be attached. To install these pipes a worker enters the treatment chamber through the central access way in the by-pass section.

The inlet pipe (pipe with the see at the end) is installed by coating the outside of the end of the pipe with quick dry PVC coment and pushing the pipe into the coupling provided on the underside of the by-pase scotion. The see must be oriented such that water which enters the treatment chamber is directed tangentially around the inside walls of the chember.

The outlet riser pipe (straight pipe without the tee) is installed in a similar fashion using the quick dry PVC coment and coupling provided underneath the by-pass section near the downstream pipe.

Inlet and outlet pipes should be securely set into the by-pass chamber using grout or approved pipe seals so that the structure is watertight. Kor-N-Seal? boots are normally used and installed at the precest concrete plant prior to shipping. The Kor-N-Seal? boots are applicable for pipes with an outside diameter up to 46 inches. Stormosptor Corporation should be notified if the pipe is to be grouted in the field at the time of ordering (i.e. Kor-N-Seal? boots will not be used) since the boots are generally included in the price quotations.

installation of the Kor—N—Seal? boots should follow the manufacturer's recommendations. As previously mentioned, the boots will already be attached to the Stormosptor? at the concrete plant. Accordingly, the following procedure should be followed to attach the inlet and autist pipes to the Stormosptor? in the field:

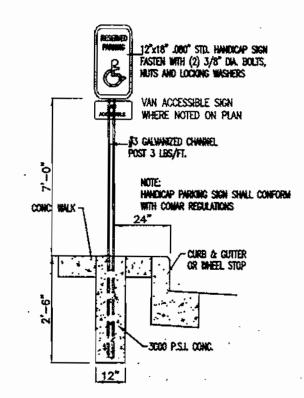
Center the pipe in the boot opening
 Lubricate the autitide of the pipe and/or inside of the boot if the pipe autitide diameter is the same as the inside diameter of the boot
 Position the pipe along in the groove of the boot with the same at the top
 Tighten the pipe along surver to 80 inch pounds
 On minimum autitide diameter installations lift the boot such that it contacts the bottom of the pipe while tightening the pipe clamp to ensure even contraction of the rubber.
 Move the pipe horizontally and/or vertically to bring it to grade

STC-7200) CHECK THAT SECTION IS SET FLISH, LEVEL AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON THE TRANSITION SLAB SPIGOT AND COAT WITH LUBRICATING GREASE (PROVIDED IN

7. INSTALL STORMCEPTOR DROP PIPES ACCORDING TO STO PIPE INSTALLATION PROCEDURE ON REVERSE SIDE OF THESE INSTRUCTIONS.

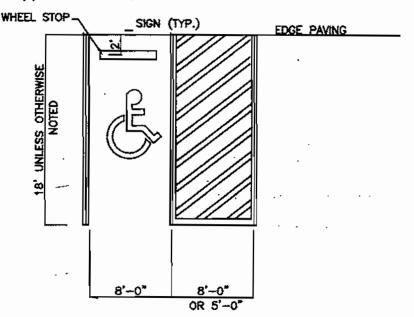
LIBER 336 FOLIO 275

1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431
HOWARD COUNTY, MARYLAND



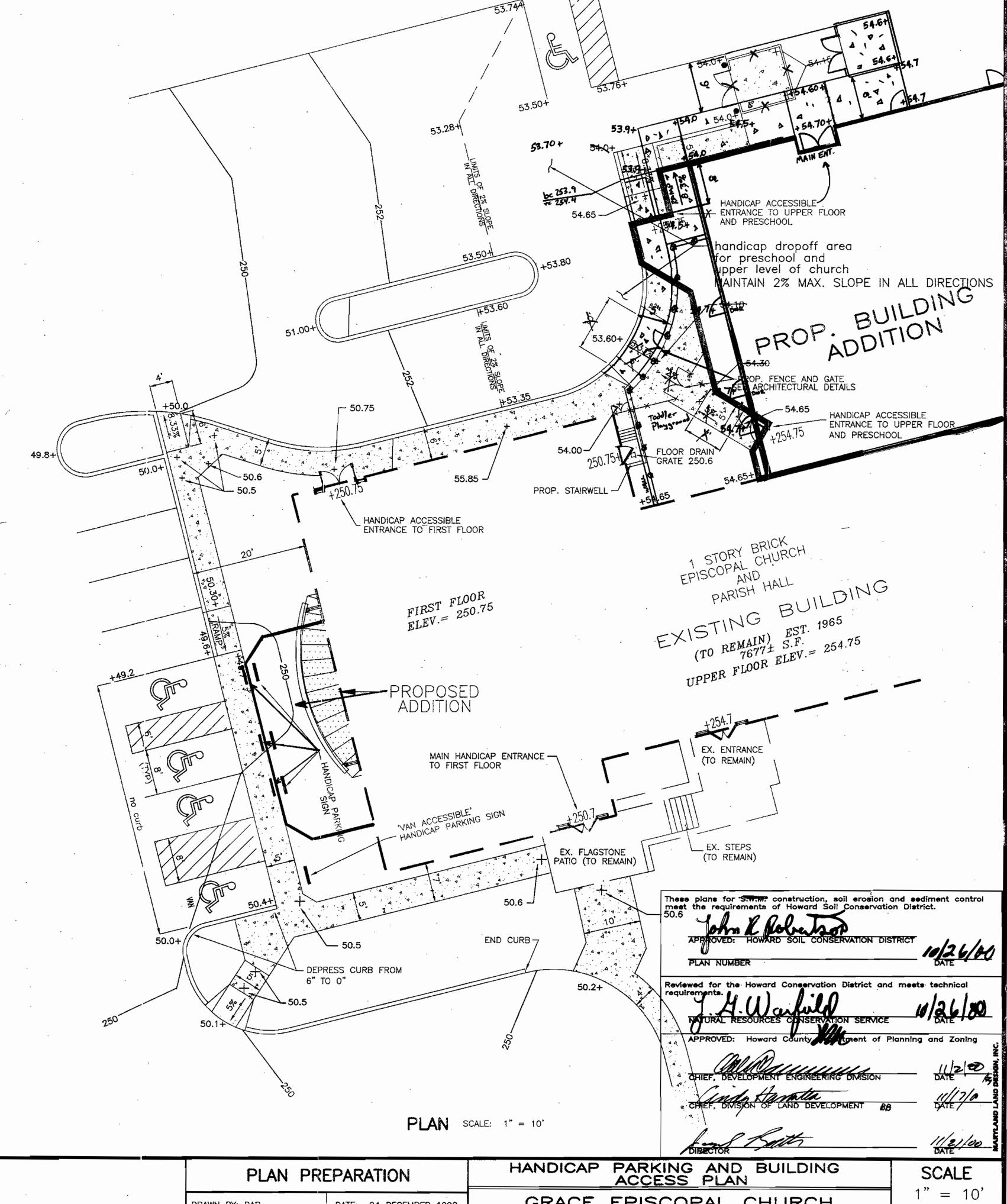
HANDICAP PARKING SIGN DETAIL

PAINT IS TO BE YELLOW OR AS SPECIFIED BY THE LOCAL JURISDICTION APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS (2) TWO COATS REQUIRED.



*VAN ACCESSIBLE SPACES SHALL BE 8'0". SEE PLAN FOR EXACT SPACE SIZE. VAN ACCESSIBLE SPACE TO HAVE SIGN DENOTING "VAN ACCESSIBLE" SPACE.

TYPICAL HANDICAP PARKING DETAIL



MARYLAND LAND DESIGN, INC.

CONSULTING ENGINEERS AND LAND PLANNERS

2001 MEADOW DRIVE WESTMINSTER, MARYLAND 21158 TELEPHONE: (410) 857-0210 FAX: (410) 840-0143 998

	-		REVISIONS	
* 0	NO.	DATE	DESCRIPTION	
	: 1	2-6-03	HANDICAP + BUILDING	REVISIONS
<i>个角</i>				
Ellin.				
				·

PLAN PREPARATION

DRAWN BY: DAB

DATE: 24 DECEMBER 1998

DESIGNED BY: DAB

DESIGNED BY: KDB

DRAWING NO.

HANDICAP PARKING AND BUILDING
ACCESS PLAN

GRACE EPISCOPAL CHURCH
BUILDING ADDITION
LIBER 336 FOLIO 275
1st ELECTION DISTRICT, TAX MAP: 37, BLOCK 6, PARCEL 431

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