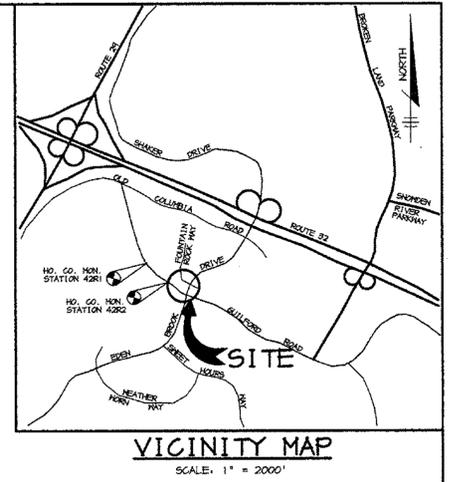


SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN
4	PROFILE AND DETAIL SHEET
5	SEDIMENT CONTROL NOTES AND DETAILS
6	LANDSCAPE PLAN

SITE DEVELOPMENT PLAN

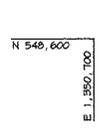
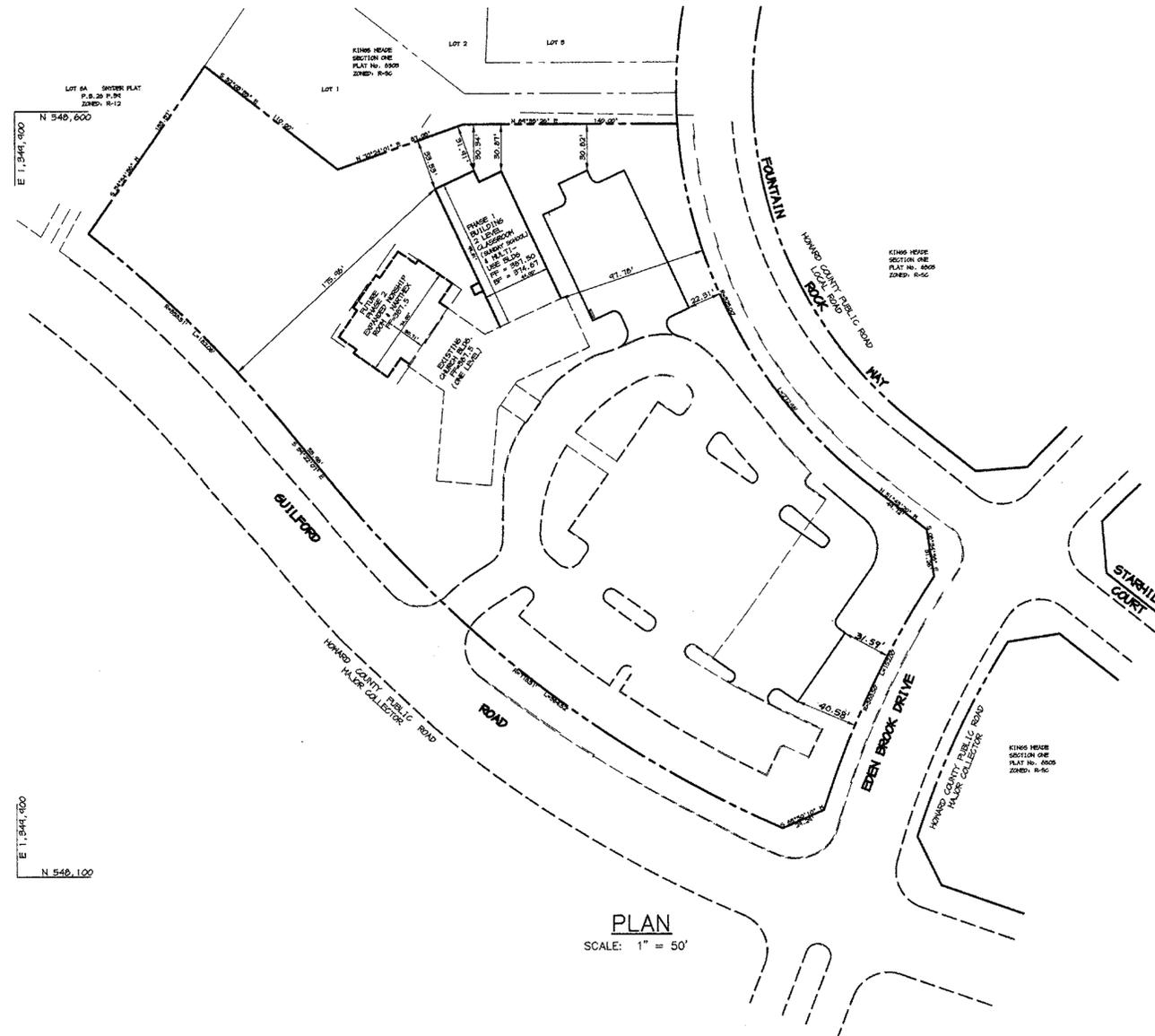
NEW HOPE LUTHERAN CHURCH RELIGIOUS FACILITY

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
 - THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 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 BEING DONE.
 - TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
 - THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOCIATES, INC. DATED MARCH, 1998.
 - THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 42R1 AND 42R2 WERE USED FOR THIS PROJECT.
 - WATER IS PUBLIC. CONTRACT NO. 24-1334-D.
 - SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATUXENT CONTRACT NO. 24-1334-D.
 - THE STORMWATER MANAGEMENT QUANTITY CONTROL FOR THIS SITE IS PROVIDED FOR UNDER F-85-103. QUALITY CONTROL IS PROVIDED BY PRIVATELY MAINTAINED OIL AND GRIT SEPARATOR AND STORMCEPTOR MANHOLES.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
 - A 100-YEAR FLOODPLAIN STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - THERE ARE NO WETLANDS ON THIS SITE.
 - A TRAFFIC STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - A GEOTECHNICAL STUDY IS NOT REQUIRED FOR THIS PROJECT.
 - THE BOUNDARY FOR THIS PROJECT IS BASED ON PREVIOUSLY RECORDED PLAT NOS. 9926.
 - SUBJECT PROPERTY ZONED R-SC PER 10-18-93 COMPREHENSIVE ZONING PLAN.
 - ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
 - SEE DEPARTMENT OF PLANNING AND ZONING FILE NOS SDP-90-180, BA-89-12E, WP-90-52, F-85-103, F-90-150, F-91-154, BA-97-42E.
 - THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
 - PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
 - NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
 - ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
 - ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
 - ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
 - SPECIAL EXCEPTION BA-97-42E CASE WAS APPROVED OCT. 28, 1997.
- BA-97-42E APPROVAL CONDITIONS
- THE SPECIAL EXCEPTION SHALL APPLY ONLY TO THE USES AND STRUCTURES AS DESCRIBED IN THE PETITION AND SPECIAL EXCEPTION PLAN SUBMITTED TO THE BOARD AS EXHIBIT 2 AND NOT TO ANY OTHER ACTIVITIES, USES, STRUCTURES, OR ADDITIONS ON THE PROPERTY.
 - THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND COUNTY LAWS AND REGULATIONS.
 - THE EXISTING AND PROPOSED LANDSCAPING, AS SHOWN ON EXHIBIT 2, SHALL BE MAINTAINED, AND REPLACED FROM TIME TO TIME AS NEEDED, TO CONTINUE TO SCREEN THE PROPERTY FROM THE ADJACENT PROPERTIES.
 - THE CONSTRUCTION OF PHASE II SHALL BEGIN NO LATER THAN DECEMBER 31, 2004 IN ACCORDANCE WITH THE PLAN SUBMITTED ON JULY 23, 1997. THE TWO TEMPORARY CLASSROOM TRAILERS SHALL BE REMOVED FROM THE PROPERTY ON THE EARLIER TO OCCUR OF (A) THE DATE OF THE COMMENCEMENT OF PHASE II CONSTRUCTION, (B) THE COMPLETION OF THE PHASE I CONSTRUCTION, OR (C) DECEMBER 31, 2004.



SITE ANALYSIS

AREA OF PARCEL	3.137 ACRES (136,665 SF)
DISTURBED AREA	1.22 ACRES (52,993 SF)
PRESENT ZONING	R-SC
EXISTING USE	RELIGIOUS FACILITY
PROPOSED USE	RELIGIOUS FACILITY / CLASSROOM
BUILDING COVERAGE PROVIDED	
EX. BUILDING	6,391 SF
PROP. ADDITION (PHASE 1)	4,268 SF
TOTAL AREA	10,659 SF (8% OF SITE)
BUILDING COVERAGE ALLOWED	34,162 SF (25%)
# OF PARKING SPACES REQUIRED	
150 SEATS FOR WORSHIP	
50 SEATS FOR OVERFLOW	
200 TOTAL SEATS	
1 SP./3 SEATS	
# OF PARKING SPACES PROVIDED	67 SPACES REQUIRED
	84 SPACES PROVIDED (INCL. 5 HC.) PHASE 1
	103 SPACES PROVIDED " " PHASE 2

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i>	10/28/98
DIRECTOR	DATE
<i>[Signature]</i>	10/28/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>[Signature]</i>	10/21/98
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

11/199	MODIFIED NO. OF PROVIDED PARKING SPACES PER PHASE 1 & PHASE 2
DATE NO.	REVISION
OWNER/DEVELOPER	
NEW HOPE LUTHERAN CHURCH c/o STAN FLEMING 10273 BURLEIGH COTTAGE LANE ELLCOTT CITY, MARYLAND 21043	

PROJECT	NEW HOPE LUTHERAN CHURCH RELIGIOUS FACILITY A BUILDING ADDITION
AREA	KINGS MEADE SECTION 1, LOT 188 TAX MAP 42 ZONED R-SC PARCEL 303 6th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE	TITLE SHEET
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RIEMER MUEGGE & ASSOCIATES, INC.	
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING	
8818 Centre Park Drive, Columbia, Maryland 21045	
tel 410.997.8900 fax 410.997.9282	

DATE	DESIGNED BY : CJR
	DRAWN BY: DAM
	PROJECT NO : 98014 SDP1.DWG
	DATE : OCTOBER 13, 1998
	SCALE : AS SHOWN
	DRAWING NO. ___ OF 6

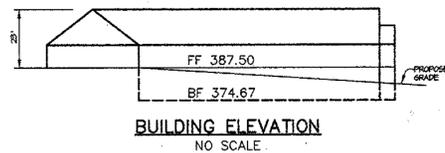
BENCHMARKS

HOWARD CONTROL CONTROL STATION 42R1
N 547,820.192 E 1,351,171.598
HOWARD CONTROL CONTROL STATION 42R2
N 546,946.752 E 1,352,118.582

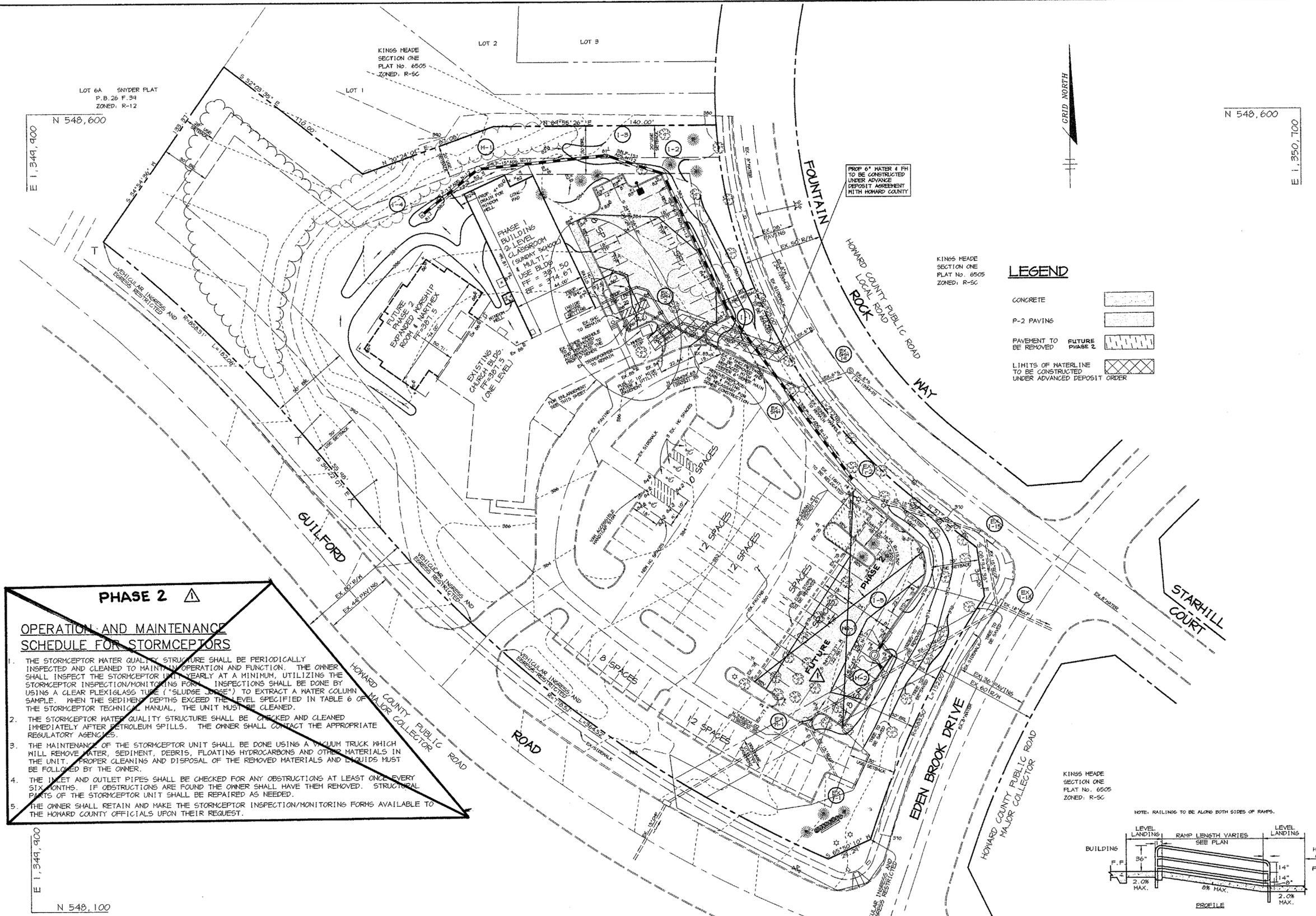
ADDRESS CHART

PARCEL	STREET ADDRESS
188	8575 GUILFORD ROAD

SUBDIVISION NAME -	KINGS MEADE	SECT./AREA -	1	LOT -	LOT 188
PLAT # -	9926	BLOCK # -	7	ZONING -	R-SC
TAX MAP NO. -	42	ELECT. DIST. -	6th	CORNER TRACT -	8081.02
WATER CODE -	E16	SEWER CODE -	5290000		

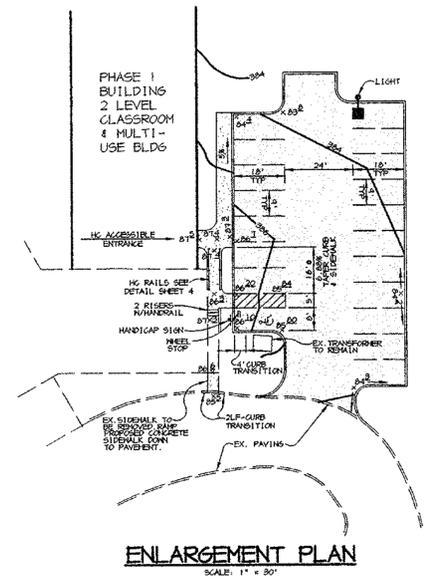


STORMWATER QUALITY SUMMARY			
STRUCTURE STORM (YR.)	DRAINAGE AREA (ACRE)	OIL STORAGE PROVIDED (CU. FT.)	REMARKS
EX. 1-2	0.33	75	
NO-1	0.44	N/A	900 SERIES STORMCEPTOR



LEGEND

- CONCRETE
- P-2 PAVING
- PAVEMENT TO BE REMOVED
- LIMITS OF WATERLINE TO BE CONSTRUCTED UNDER ADVANCED DEPOSIT ORDER



PHASE 2

OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTORS

- THE STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE PERIODICALLY INSPECTED AND CLEANED TO MAINTAIN OPERATION AND FUNCTION. THE OWNER SHALL INSPECT THE STORMCEPTOR UNIT YEARLY AT A MINIMUM, UTILIZING THE STORMCEPTOR INSPECTION/MONITORING FORM. INSPECTIONS SHALL BE DONE BY USING A CLEAR PLEXIGLASS TUBE ("SLUDGE LOGGE") TO EXTRACT A WATER COLUMN SAMPLE. WHEN THE SEDIMENT DEPTHS EXCEED THE LEVEL SPECIFIED IN TABLE 6 OF THE STORMCEPTOR TECHNICAL MANUAL, THE UNIT MUST BE CLEANED.
- THE STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE CHECKED AND CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. THE OWNER SHALL CONTACT THE APPROPRIATE REGULATORY AGENCIES.
- THE MAINTENANCE OF THE STORMCEPTOR UNIT SHALL BE DONE USING A VACUUM TRUCK WHICH WILL REMOVE WATER, SEDIMENT, DEBRIS, FLOATING HYDROCARBONS AND OTHER MATERIALS IN THE UNIT. PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUIDS MUST BE FOLLOWED BY THE OWNER.
- THE INLET AND OUTLET PIPES SHALL BE CHECKED FOR ANY OBSTRUCTIONS AT LEAST ONCE EVERY SIX MONTHS. IF OBSTRUCTIONS ARE FOUND THE OWNER SHALL HAVE THEM REMOVED. STRUCTURAL PARTS OF THE STORMCEPTOR UNIT SHALL BE REPAIRED AS NEEDED.
- THE OWNER SHALL RETAIN AND MAKE THE STORMCEPTOR INSPECTION/MONITORING FORMS AVAILABLE TO THE HOWARD COUNTY OFFICIALS UPON THEIR REQUEST.

WATER QUALITY STRUCTURE NOTES

MAINTENANCE NOTES

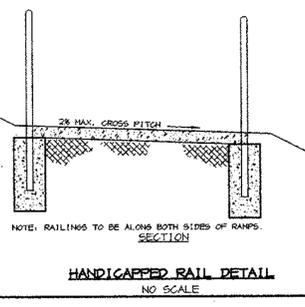
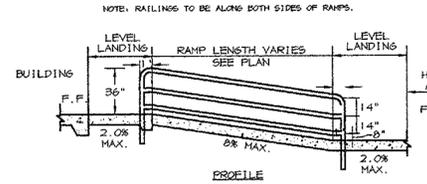
- Water Quality Structures will require periodical cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
- Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed.
- The disposal of the liquid and solid matter should be as follows:
 - All liquid material in the separator inlet shall be pumped into a suitable tank truck and disposed of at an approved sanitary district discharge manhole or be taken to an approved sewerage treatment plant for discharge.
 - The solid material shall be landfilled in an approved sanitary landfill.
- The inlet pipes, trash racks, grates and structural parts shall be repaired as needed.

NOTES

- ALL LIGHTS TO BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES AND BE IN ACCORDANCE WITH SECTION 134 OF THE HOWARD COUNTY ZONING REGULATIONS.
- ALL CURB RADIUS ARE 5' UNLESS OTHERWISE LABELED.
- ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE SHOWN.
- ALL ON-SITE ROADS ARE PRIVATE.
- SEE SHEET 1 FOR BUILDING LOCATION DIMENSIONS.
- THE IMPROVEMENTS ASSOCIATED WITH PHASE II ARE FOR INFORMATIONAL PURPOSES ONLY.
- STORMCEPTOR AND WATER QUALITY INLETS ARE TO BE PRIVATELY OWNED AND MAINTAINED.

PLAN
SCALE: 1" = 30'

8. THE EXISTING PARKING LOT IS NON-COMPLYING WITH REGARD TO THE USE SETBACK. THE PARKING SETBACK SHOWN IS AS APPROVED ON THE EXHIBIT FOR BA-97-42E. FUTURE EXTENSIONS OR MODIFICATIONS MUST BE IN ACCORDANCE WITH THE ZONING REGULATIONS IN EFFECT AT THAT TIME.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Director: *[Signature]* 10/12/98 DATE

Chief, Development Engineering Division: *[Signature]* 10/12/98 DATE

Chief, Division of Land Development: *[Signature]* 10/27/98 DATE

1/11/99 **Δ** DELETED PARKING SPACES TO BE PROVIDED UNDER FUTURE PHASE 2. DELETED CEM. PREFERENCE FOR STORMCEPTOR.

DATE NO. REVISION

OWNER/DEVELOPER
NEW HOPE LUTHERAN CHURCH
c/o STAN FLEMING
10273 BURLINGHAM COTTAGE LANE
ELLICOTT CITY, MARYLAND 21045

PROJECT NEW HOPE LUTHERAN CHURCH
RELIGIOUS FACILITY
A BUILDING ADDITION

AREA KINGS HEADE SECTION 1, LOT 100
TAX MAP 42 ZONED R-5C PARCEL 303
6th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282

DATE

DESIGNED BY: CJR

DRAWN BY: DAM

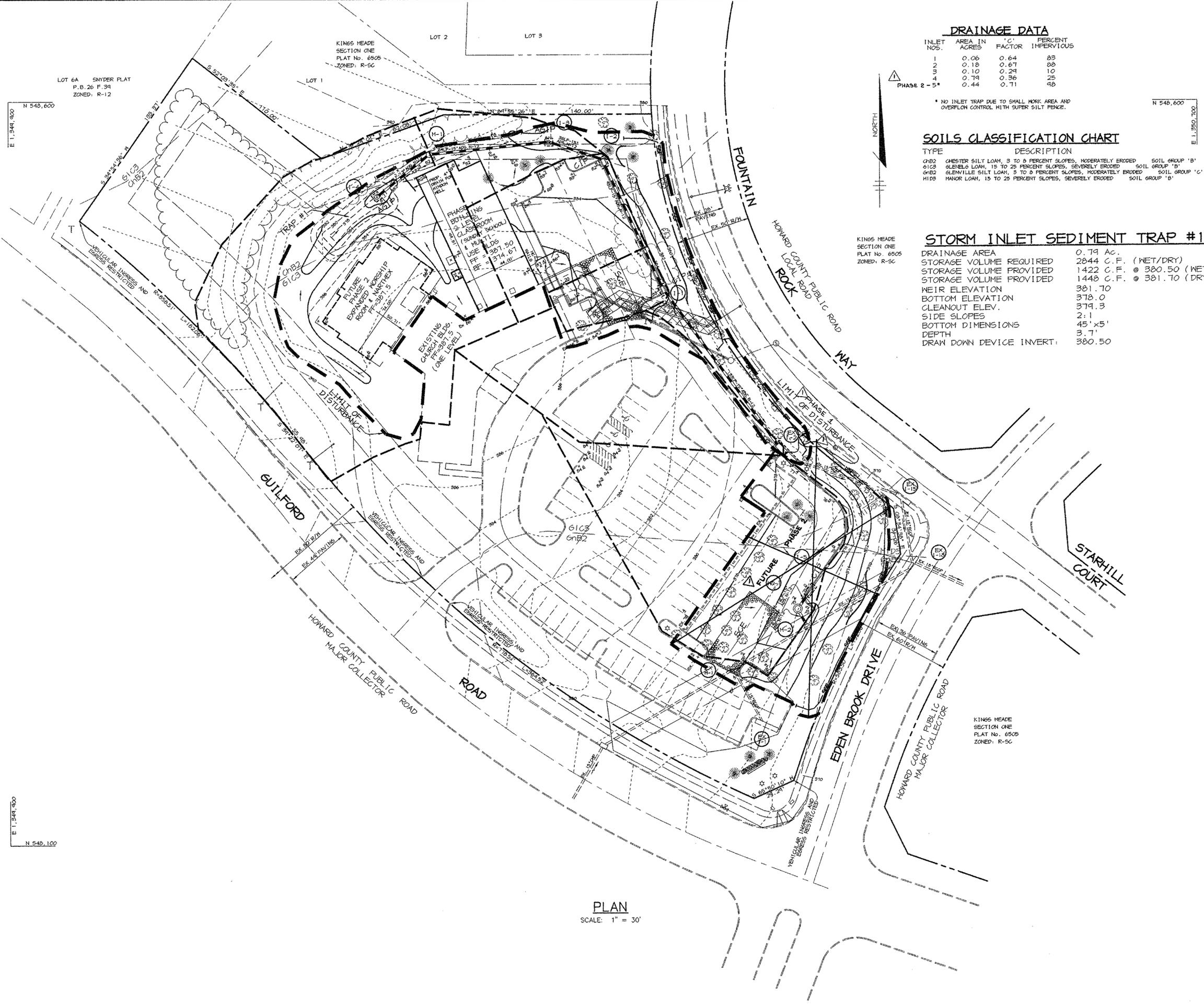
PROJECT NO.: 98014
SDP2.DWG

DATE: OCTOBER 13, 1998

SCALE: AS SHOWN

DRAWING NO. 2 OF 6

ARTHUR E. MUEGGE #8707



DRAINAGE DATA

INLET NOS.	AREA IN ACRES	'C' FACTOR	PERCENT IMPERVIOUS
1	0.06	0.64	83
2	0.18	0.67	88
3	0.10	0.24	10
4	0.79	0.56	25
PHASE 2-5*	0.44	0.71	48

* NO INLET TRAP DUE TO SMALL WORK AREA AND OVERFLOW CONTROL WITH SUPER SILT FENCE.

LEGEND

- SF — SILT FENCE
- SF — SUPER SILT FENCE
- X — TREE PROTECTION FENCE
- — — — — LIMIT OF DISTURBANCE

SOILS CLASSIFICATION CHART

TYPE	DESCRIPTION	SOIL GROUP
CH2	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	SOIL GROUP 'B'
61C2	GLENNVILLE LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	SOIL GROUP 'B'
61B2	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED	SOIL GROUP 'C'
H1D	MAJOR LOAM, 15 TO 25 PERCENT SLOPES, SEVERELY ERODED	SOIL GROUP 'B'

STORM INLET SEDIMENT TRAP #1

DRAINAGE AREA	0.79 AC.
STORAGE VOLUME REQUIRED	2844 C.F. (WET/DRY)
STORAGE VOLUME PROVIDED	1422 C.F. @ 380.50 (WET)
STORAGE VOLUME PROVIDED	1448 C.F. @ 381.70 (DRY)
WEIR ELEVATION	381.70
BOTTOM ELEVATION	378.0
CLEANOUT ELEV.	379.3
SIDE SLOPES	2:1
BOTTOM DIMENSIONS	45'x5'
DEPTH	3.7'
DRAIN DOWN DEVICE INVERT:	380.50

PLAN
SCALE: 1" = 30'

BY THE DEVELOPER :

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, 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 ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

Stanley A. Fleming 10/14/98
DEVELOPER DATE

BY THE ENGINEER :

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

Arthur E. Muegge 10-14-98
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Cheryl Simmons 10/21/98
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson 10/21/98
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Paul Smith 10/22/98
DIRECTOR DATE

[Signature] 10/23/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Ainda Hamlett 10/21/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION
1/11/99	1	MODIFIED LIMIT OF DISTURBANCE TO INDICATE PHASE 3 & PHASE 2 LIMITS

OWNER/DEVELOPER
NEW HOPE LUTHERAN CHURCH
c/o STAN FLEMING
10273 BURLEIGH COTTAGE LANE
ELLCOTT CITY, MARYLAND 21043

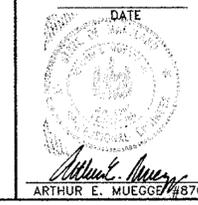
PROJECT NEW HOPE LUTHERAN CHURCH RELIGIOUS FACILITY A BUILDING ADDITION

AREA KINGS MEADE SECTION 1, LOT 108
TAX MAP 42 ZONED R-SC PARCEL 303
6th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE DRAINAGE AREA MAP AND SEDIMENT CONTROL PLAN

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282

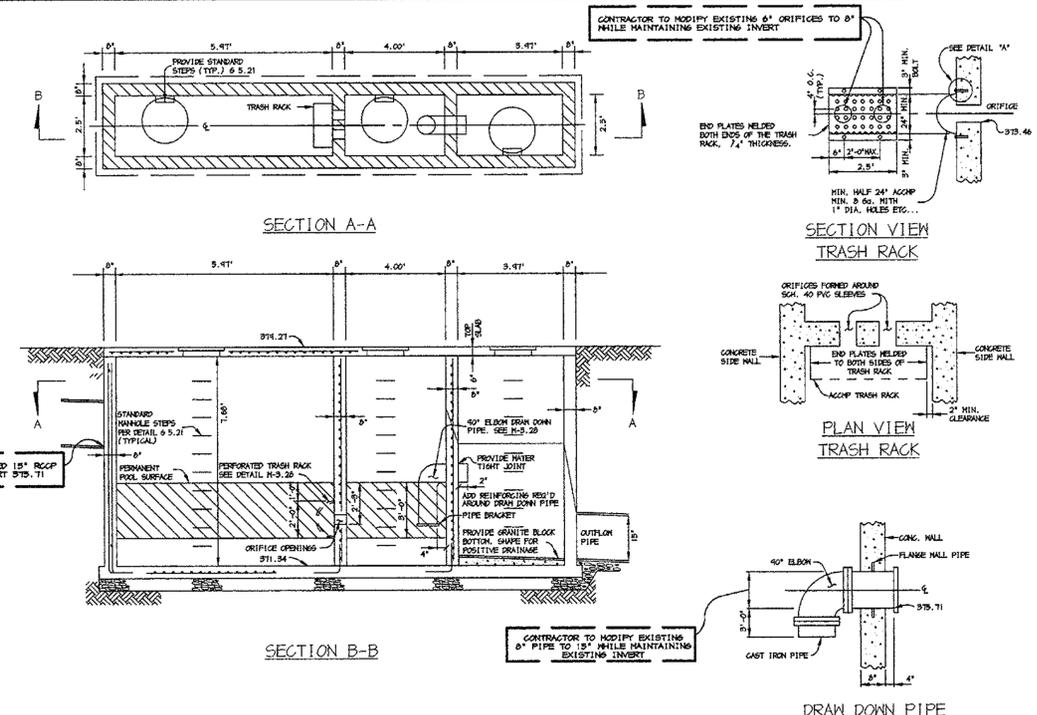
DATE	DESIGNED BY :
	CJR
DATE	DRAWN BY :
	DAM
DATE	PROJECT NO. :
	98014 SDP3.DWG
DATE	DATE :
	OCTOBER 13, 1998
DATE	SCALE :
	AS SHOWN
DATE	DRAWING NO. :
	3 OF 6



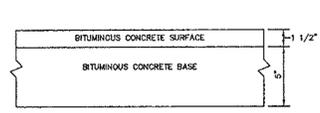
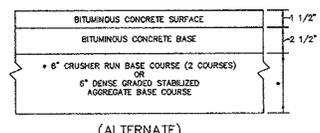
STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	A-5	N 548,472.47 E 1,350,834.12	376.96	376.06	384.3	HOCO. STD. DETAIL SD 4.40,
I-2	A-5	N 548,558.12 E 1,350,294.18	377.54	377.44	389.2	HOCO. STD. DETAIL SD 4.40,
I-3	YARD	N 548,572 E 1,350,263	377.83	377.73	381.1	HOCO. STD. DETAIL SD 4.14
I-4	S	N 548,535 E 1,350,148	-	378.70	381.7	HOCO. STD. DETAIL SD 4.22
PHASE 2	I-5	A-5 N 548,378.71 E 1,350,497.40	377.00	375.0	HOCO. STD. DETAIL SD 4.40	
EX. I-2			375.00	EX.	EX.	OIL / GRIT SEPARATOR
M-1	4' DIA. MANHOLE	N 548,564 E 1,350,183	378.42	378.17	384.0	HOCO. STD. DETAIL G 5.11
PHASE 2	M-2	4' DIA. MANHOLE N 548,246 E 1,350,426	148.47	148.72	207.2	HOCO. STD. DETAIL G 5.11
PHASE 2	MQ-1	ETC. 400 MANHOLE N 548,258 E 1,350,438	371.71	371.61	375.2	SEE SHEET 5

NOTES: LOCATION IS AT CENTER OF THROAT OPENING AT FACE OF CURB FOR CURB INLETS (CENTER OF GRATE FOR I-1-4). TOP ELEVATION IS TOP OF CURB/GRATE/RIM.

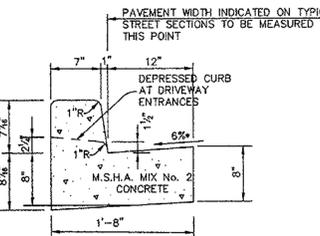


EXISTING I-2 MODIFICATION DETAIL



HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

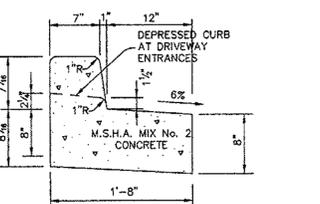
P-2 PAVING
NO SCALE



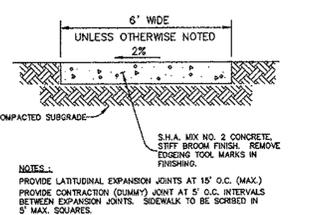
HOWARD COUNTY DESIGN MANUAL VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-3.01)

GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

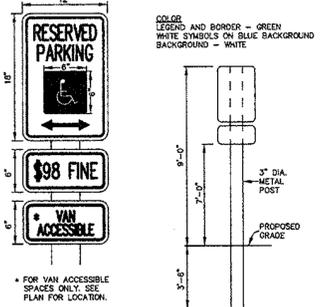
STANDARD 7" COMBINATION CURB AND GUTTER
NO SCALE



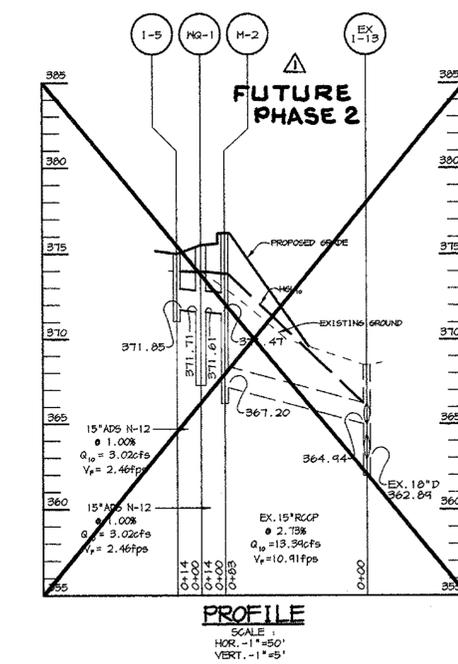
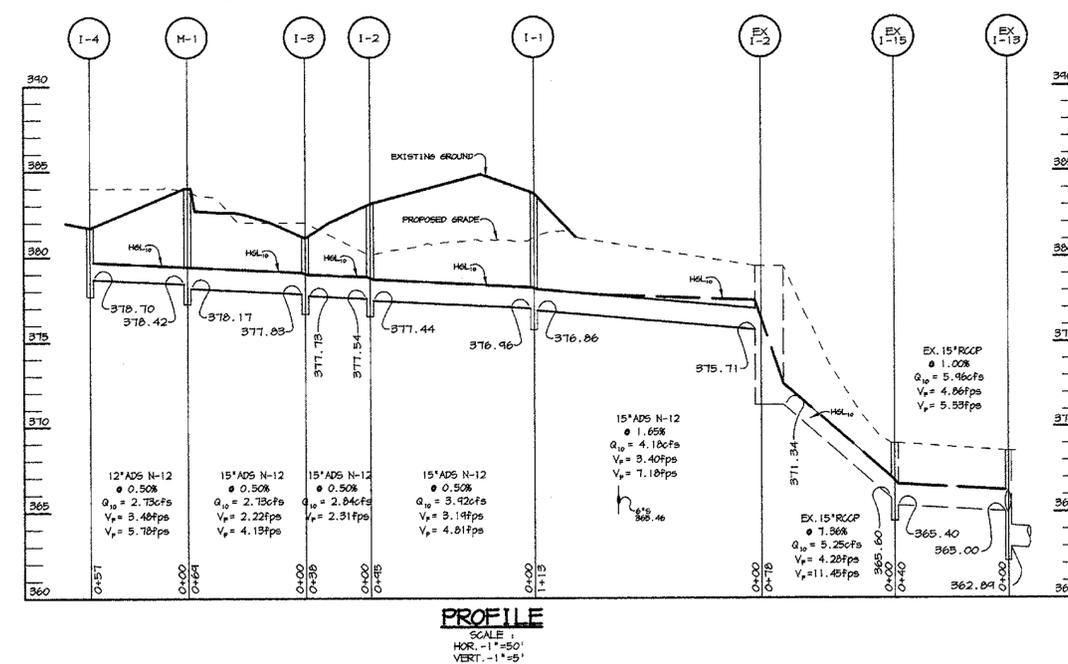
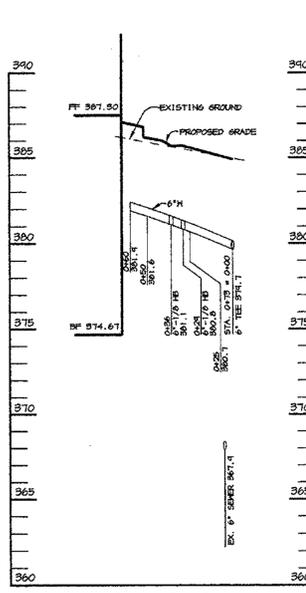
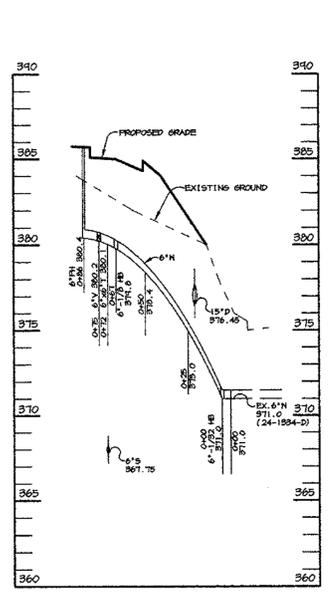
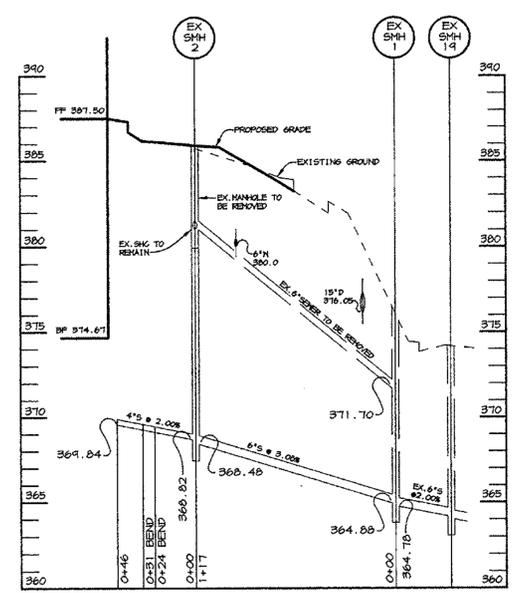
REVERSE 7" COMBINATION CURB AND GUTTER
NO SCALE



SIDEWALK DETAIL
NO SCALE



HANDICAP SIGN DETAIL
NO SCALE



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Paul Butler 10/28/98
DIRECTOR DATE

Cheryl 10/28/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 10/28/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

1/11/99 DELETED PROFILE (WG) TO BE CONSTRUCTED IN PHASE B. DELETED PHASE 2 ITEMS FROM STRUCTURE SCHEDULE.

DATE NO. REVISION

OWNER/DEVELOPER
NEW HOPE LUTHERAN CHURCH
c/o STAN FLEMING
10273 BURLEIGH COTTAGE LANE
ELLICOTT CITY, MARYLAND 21043

PROJECT NEW HOPE LUTHERAN CHURCH RELIGIOUS FACILITY A BUILDING ADDITION

AREA KINGS MEADE SECTION 1, LOT 108
TAX MAP 42 ZONED R-SC PARCEL 303
6th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE **DETAIL AND PROFILE SHEET**

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282

DATE
Arthur E. Muegge
ARTHUR E. MUEGGE #8707

DESIGNED BY: CJR
DRAWN BY: DAM
PROJECT NO: 98014 SDP4.DWG
DATE: OCTOBER 13, 1998
SCALE: AS SHOWN
DRAWING NO. 4 OF 6

STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER 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 THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING AND MULCHING (SEC. 6.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED 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	3.14 ACRES
AREA TO BE ROOFED OR PAVED	1.22 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.45 ACRES
TOTAL CUT	497 CU. YARDS
TOTAL FILL	1301 CU. YARDS

OFFSITE WATER/BORROW AREA LOCATION
- 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 SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEEDING WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.

TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.
- Seeded Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:** Apply 600 lbs. per acre 10-10-10 Fertilizer (14 lbs. per 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 ryegrass (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 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. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.
- Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seeded Preparation:** Loosen upper three inches of soil by raking, 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 (42 lbs. per 1000 sq. ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq. ft.).
 - Acceptable:** Apply 2 tons per acre dolomitic limestone (42 lbs. per 1000 sq. ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq. ft.) before seeding. Harrow or disc into upper three inches of soil.
- Seeding:** For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:
- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
 - Use sod.
 - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.
- Mulching:** Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 341 gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.
- Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition: Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose: To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

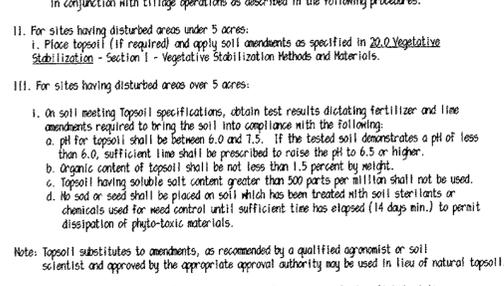
Conditions Where Practice Applies:

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these standards and specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

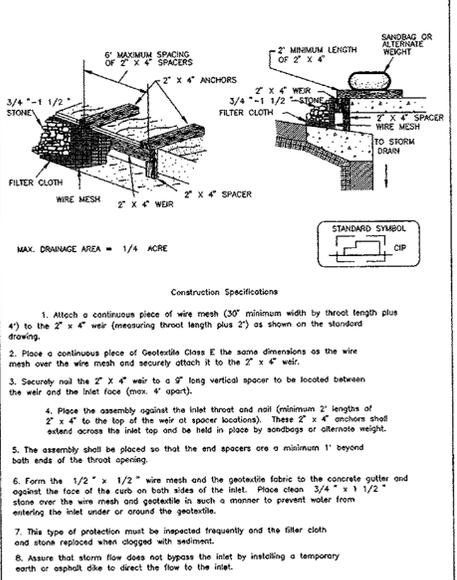
Construction and Material Specifications:

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SGS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1/4" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
 - Where subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Limestone shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain best results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No soil or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

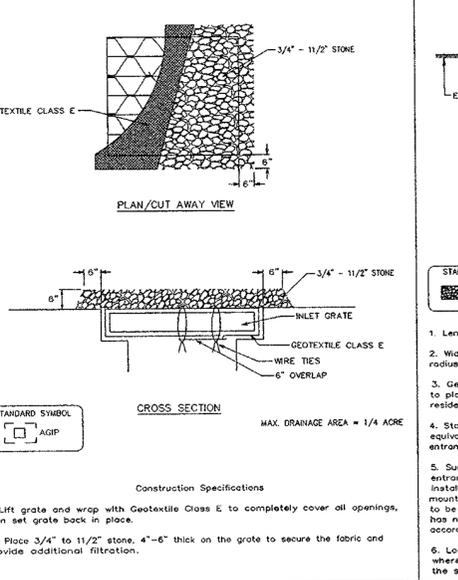
Note: Topsoil substitutes to amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority may be used in lieu of natural topsoil.



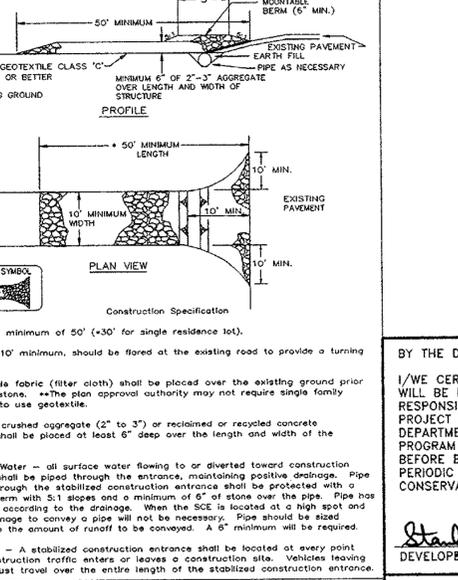
DETAIL 23C - CURB INLET PROTECTION



DETAIL 23B - AT GRADE INLET PROTECTION



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



FUTURE PHASE 2

Concrete Stormceptor Order Request Form

Contractor Information: Name, Address, City, State, Zip Code, Contact, Phone, Fax.

Owner Information: Name, Phone, Fax.

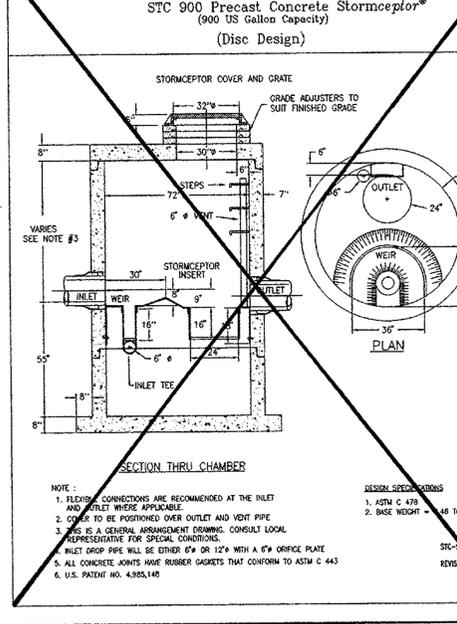
Stormceptor Model: 900, 1200, 1800, 2400. Imperv. Area, Insert Size, Monohole Number, Finish Top Elevation, Top Side Elevation, Inlet Pipe Invert, Outlet Pipe Invert, Pipe Inside Diameter, Pipe Outside Diameter.

Project Name: NEW HOPE LUTHERAN CHURCH. Delivery Address, City, State, Zip Code, Designer Company, Designer Contact.

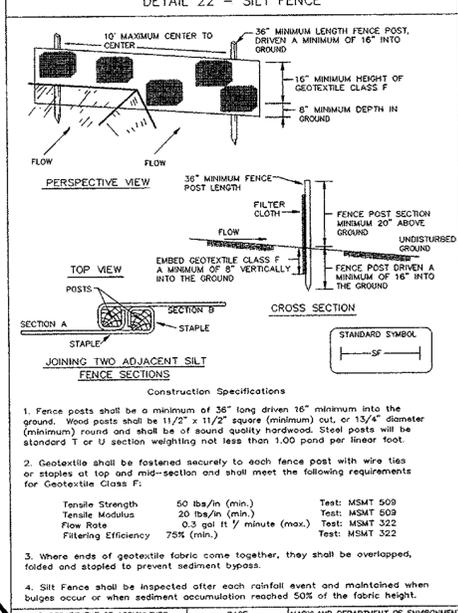
Please fax this order to Stormceptor at (301) 762-4190. For Technical Assistance, Please Call Stormceptor Corporation at (301) 762-8361 or toll free at 1 (800) 762-4703.

ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR.

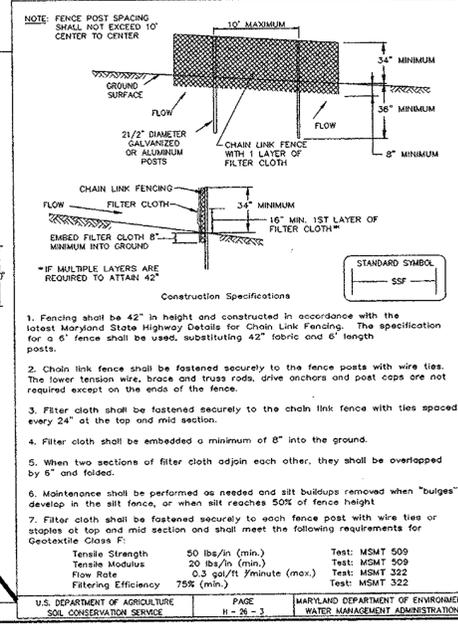
FUTURE PHASE 2



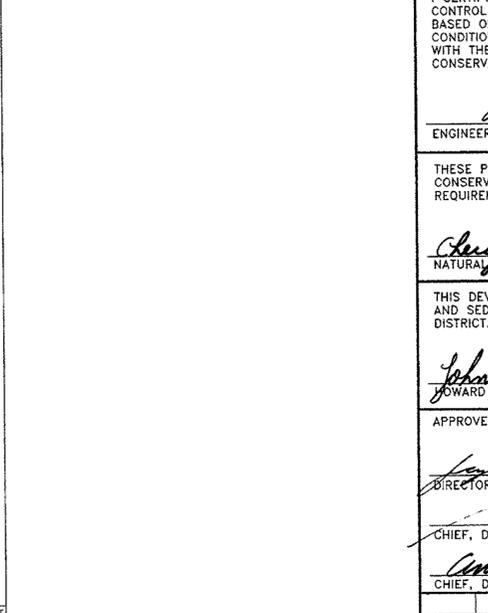
DETAIL 22 - SILT FENCE



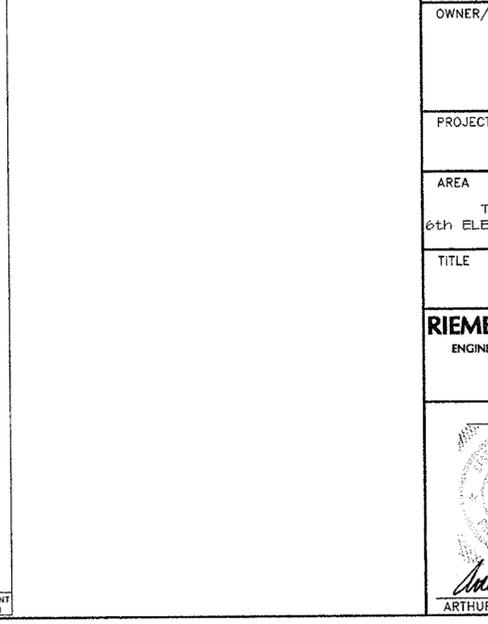
DETAIL 33 - SUPER SILT FENCE



DETAIL 22 - SILT FENCE



DETAIL 33 - SUPER SILT FENCE



BY THE DEVELOPER:

Stanley A. Fleming 10/14/98
DEVELOPER DATE

BY THE ENGINEER:

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

Arthur E. Muegge 10-14-98
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

Cleary Simpson 10/21/98
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John P. Robinson 10/21/98
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James Butler 10/28/98
DIRECTOR DATE

John P. Robinson 10/28/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

John P. Robinson 10/27/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

1/11/99 DELETED STORMCEPTOR REFERENCES TO BE USED IN PHASE 2 CONSTRUCTION.

DATE NO. REVISION

OWNER/DEVELOPER

NEW HOPE LUTHERAN CHURCH
c/o STAN FLEMING
10273 BURLINGHAM COTTAGE LANE
ELLCOTT CITY, MARYLAND 21043

PROJECT NEW HOPE LUTHERAN CHURCH RELIGIOUS FACILITY A BUILDING ADDITION

AREA KINGS MEADE SECTION 1, LOT 188 TAX MAP 42 ZONED R-5C PARCEL 303 6TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

TITLE **SEDIMENT CONTROL NOTES AND DETAILS**

RIEMER MUEGGE & ASSOCIATES, INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, Maryland 21045
tel 410.997.8900 fax 410.997.9282

DATE

DESIGNED BY: CJR
DRAWN BY: DAM
PROJECT NO: 98014
DATE: OCTOBER 13, 1998
SCALE: AS SHOWN
DRAWING NO. 5 OF 6

Arthur E. Muegge #8707
ARTHUR E. MUEGGE #8707

PERIMETER	ADJACENT TO PERIMETER PROPERTIES			ADJACENT TO ROADWAYS			
	3	4	5	1	2	6	7
LANDSCAPE TYPE	C	C	C	E	B	E	E
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	± 185 LF	± 110 LF	± 230 LF	± 240 LF	± 212 LF	± 310 LF	± 190 LF
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	YES ± 185 LF EXISTING WOODS	YES ± 110 LF EXISTING WOODS	YES 3 SHADE TREES 10 EVGR. TREES	YES 2 SHADE TREES	YES 7 SHADE TREES	YES 16 SHADE TREES 9 EVGR. TREE	YES 4 SHADE TREES 2 EVGR. TREES
CREDIT FOR WALL, FENCE OR BERR (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED	① 1/40' = 4 ② 1/20' = 7	① 1/40' = 3 ② 1/20' = 6	① 1/40' = 6 ② 1/20' = 12	① 1/40' = 6 ② 1/4' = 60	① 1/30' = 4 ② 1/40' = 5	① 1/40' = 8 ② 1/4' = 77	① 1/40' = 5 ② 1/4' = 48
NUMBER OF PLANTS PROVIDED	0	0	3 (EX. 0 ADDTL) 28 (10 EX. 0 ADDTL) 10 (0 EX. 0 ADDTL)	5 (2 EX. 3 ADDTL) 4 25	7 (7 EX. 0 ADDTL) 0 0	16 (16 EX. 0 ADDTL) 9 (4 EX. 0 ADDTL) 0 24 (0 EX. 24 ADDTL)	9 (4 EX. 0 ADDTL) 5 (2 EX. 3 ADDTL) 0 20 (0 EX. 20 ADDTL)

SUBSTITUTION NOTES:
PERIMETER LANDSCAPE EDGE, SCHEDULE A
PERIMETER 1:
 2 EVERGREEN TREE WERE SUBSTITUTED FOR 1 BSHADE TREE.
 7 EVERGREEN TREES WERE SUBSTITUTED FOR 35 SHRUBS.
PERIMETER 2:
 3 SHADE TREES WERE SUBSTITUTED FOR 5 EVERGREEN TREES.
PERIMETER 5:
 6 EVERGREEN TREES WERE SUBSTITUTED FOR 3 SHADE TREES.
PERIMETER 6:
 8 SHADE TREES AND 4 EVERGREEN TREES WERE SUBSTITUTED FOR 53 SHRUBS.
PERIMETER 7:
 4 SHADE TREES AND 5 EVERGREEN TREES WERE SUBSTITUTED FOR 28 SHRUBS.

KEY	QTY	BOTANICAL + COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
△ PHASE 2	AR	Acer rubrum 'October Glory' Quercus glauca 'Red Maple'	2 1/2" - 3" Cal.	B + B	Full Crown, Central Leader
	PB	Plantanus x acerifolia 'Bloodgood' Bloodgood Plane Tree	2 1/2" - 3" Cal.	B + B	Full Crown Central Leader
EVERGREEN TREES					
	PA	Picea abies Norway Spruce	6' - 8" Ht.	B + B	Specimen
△ PHASE 2	PO	Picea canadensis Sorbus Spruce	6' - 8" Ht.	B + B	Full Form Central Leader
	PS	Pinus strobus White Pine	6' - 8" Ht.	B + B	Sheared Full Form
SHRUBS					
	EA	Euonymus alatus 'compactus' Dwarf Burning Bush	30" - 36" Ht.	B + B	Full
	AG	Abelia grandiflora 'Edward Goucher' Edward Goucher Abelia	30" - 36" Ht.	B + B	Full
△ PHASE 2	RF	Rhodod. x fraseri Fraser photinia	36" - 42" Ht.	B + B	Full
	VC	Viburnum carlesii Koreanopice Viburnum	30" - 36" Ht.	B + B	Full
	PL	Prunus laurocerasus 'Schipkaensis' Shipka Cherry Laurel	24" - 30" Ht.	B + B	Full

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	104
NUMBER OF SHADE TREES REQUIRED @ 1 S.T./20 SPACES	5
NUMBER OF TREES PROVIDED (SEE NOTE 1 BELOW)	3
SHADE TREES (2:1 SUBSTITUTION)	0
OTHER TREES (2:1 SUBSTITUTION)	3
NUMBER OF ISLANDS REQUIRED (1 ISLAND/ 20 SPACES)	5
NUMBER OF ISLANDS PROVIDED	10

1. CREDIT TAKEN FOR EXISTING PARKING LOT TREES
 (7) SHADE TREES
 (6) OTHER TREES

- NOTES:**
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPM DEVELOPERS AGREEMENT IN THE AMOUNT OF \$ 7,470
 - THE OWNER, TENANT, AND/OR THEIR AGENTS SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE REQUIRED LANDSCAPING, INCLUDING BOTH PLANT MATERIALS AND BERMS, FENCES AND WALLS. ALL PLANT MATERIALS SHALL BE MAINTAINED IN GOOD GROWING CONDITION, AND WHEN NECESSARY, REPLACED WITH NEW MATERIALS TO ENSURE CONTINUED COMPLIANCE WITH APPLICABLE REGULATIONS. ALL OTHER REQUIRED LANDSCAPING SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION, AND WHEN NECESSARY, REPAIRED OR REPLACED.
 - THE PROPERTY OWNER WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PLANTINGS REMOVED BY HOWARD COUNTY, AS NECESSARY TO CONDUCT WORK IN THE 20' DRAINAGE AND UTILITY EASEMENT.

LANDSCAPE LEGEND (APPROX. LOCATIONS)

- PROP. SHADE TREE
- PROP. EVERGREEN TREE
- PROP. SHRUB
- EXIST. SHADE TREE
- EXIST. EVERGREEN TREE
- EXIST. TREE LINE

DEVELOPER'S/BUILDER'S CERTIFICATE:
 I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION A CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Stanley A. Fleming 10/14/98
 NAME DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
John Smith 10/28/98
 DIRECTOR DATE
[Signature] 10/28/98
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Andy Hamlett 10/27/98
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION
1/11/99	1	DELETED TREES/SHRUBS TO BE USED IN FUTURE PHASE 2 CONSTRUCTION.

OWNER / DEVELOPER
 NEW HOPE LUTHERAN CHURCH
 c/o STAN FLEMING
 10273 BURLEIGH COTTAGE LANE
 ELLICOTT CITY, MARYLAND 21043

PROJECT
 NEW HOPE LUTHERAN CHURCH
 A RELIGIOUS FACILITY
 AREA KINGS MEADE SECTION 1 LOT 188
 TAX MAP No. 42 ZONED R-SC PARCEL No. 303
 6th ELECTION DISTRICT HOWARD COUNTY, MD
 TITLE

LANDSCAPE PLAN
RIEMER MUEGGE & ASSOCIATES, INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, Maryland 21045
 tel 410.997.8900 fax 410.997.9282

10-15-98
 DATE
 DESIGNED BY : DTD
 DRAWN BY : AJL
 PROJECT NO : 97094
 CONALT1B.DWG
 DATE : OCT. 15, 1998
 SCALE : 1"=30'
 DRAWING NO. 6 OF 6

