

BENCH MARKS

BM# 2337004 ELEV. 487.80
 CONCRETE MONUMENT 0.35' BELOW SURFACE
 5' SE OF C&P POLE #15
 N 489250.527; E 816865.917

BM# 2337003 ELEV. 499.91
 3/4" REINFORCING ROD 0.5' BELOW SURFACE
 34' SSW OF C&P POLE #17
 N 489248.431; E 817275.756

THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM CHANGE RULE WHICH ALSO APPLIES AS REQUIRED BY MARYLAND DEPARTMENT OF THE ENVIRONMENT.

THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. EASEMENTS OF ANY KIND IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONTRIBUTION TO A PUBLIC SEWAGE SYSTEM. THE PRIVATE SEWAGE EASEMENT RESERVATION OF A MODIFIED SEWAGE BASEMENT FLOOR SHALL NOT BE NECESSARY.

ON SITE NEAR PRESERVATION WAS NOT BEEN PROPOSED FOR THIS FACILITY. ALL EXISTING WELLS AND SEPTIC SYSTEMS KNOWN TO BE WITHIN 100' OF THE PROPERTY LINE HAVE BEEN SHOWN.

LEGEND

- PROPERTY LINE
- BUILDING RESTRICTION LINE (BRL)
- P-1 PAVING
- P-2 PAVING
- PROP. SIDEWALK
- PROP. LIGHT POLE
- STD. C&G CURB & GUTTER (C&G)
- STD. REV. TRANSITION STD. - C&G TO REV. C&G
- HANDICAPPED PARKING SEE DETAILS SHT. C-5
- BUILDING ENTRANCE
- ACCESSIBLE ENTRANCE TO HANDICAPPED

SITE TABULATION

TOTAL AREA EXISTING USE: 17.17 ACRES

RELIGIOUS FACILITY INCLUDING: TWO STORY BUILDING CONTAINING SANCTUARY WITH 600 SEATS, ASSOCIATED CLASSROOM AND SUPPORTING FACILITIES AS APPROVED BY SPECIAL EXCEPTION CASE NO. 04 89-412

PARKING REQUIRED: 6 (1 SPACE/7) FIXED SEATS OR 1 SPACE/100 SQ. FT. PUBLIC ASSEMBLY AREA. 6231 SQ. FT. (1 SP/100 SQ. FT. PARKING PROVIDED)

BUILDING COVERAGE: 16,100 SQ. FT. (2,198 OF SITE)

OPEN SPACE: 12.85 AC. (175% OF SITE)

AVERAGE BUILDING HEIGHT ABOVE AVERAGE GRADE HEIGHT: 29.5 FT

LANDSCAPE ISLANDS PROVIDED: 18

LANDSCAPE ISLANDS PROVIDED: 18

SEE LANDSCAPE PLAN FOR PLANTING REQUIREMENTS SHEET C-6

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (301) 792-7272 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
4. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL TEST EXISTING UTILITIES, IF ANY, AT LEAST 3 DAYS IN ADVANCE OF ANY CONSTRUCTION SHOWN ON THESE DRAWINGS. LOCATIONS AND ELEVATION SHALL BE VERIFIED AND IF OTHER THAN SHOWN THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
6. 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.
7. ALL PLAN DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
8. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
9. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
10. ALL WATER AND SEWER UTILITIES SHALL BE CONSTRUCTED WITH A MINIMUM OF 42" COVER FROM THE PROPOSED GRADE.
11. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
12. PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
13. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT TO SUBGRADE.
14. TOPOGRAPHY TAKEN FROM AERIAL SURVEY BY MAPPING TECHNOLOGIES, INC. DATED 6/29/92 TWO (2) FOOT CONTOUR INTERVAL. BOUNDARY SHOWN IS THE RESULT OF A FIELD RUN SURVEY BY LANDMARK ENGINEERING IN JULY, 1992.
15. HORIZONTAL AND VERTICAL DATUM: MD STATE PLANE, 1929 GENERAL ADJUSTMENT.
16. ALL STORM DRAIN PIPE BEDDING SHALL BE AS SHOWN IN DETAIL G2 01 (TRENCH IN ROCK OR TRENCH IN EARTH AS DETERMINED BY FIELD CONDITIONS) IN VOL. IV OF THE HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
17. STORMWATER MANAGEMENT IS PROVIDED BY AN EXTENDED DETENTION WETLAND MARSH FACILITY TO BE CONSTRUCTED AS PART OF THIS SITE DEVELOPMENT.
18. STORMWATER MANAGEMENT FACILITY WILL BE PRIVATELY OWNED AND MAINTAINED.
19. NO WETLANDS ARE EFFECTED BY THIS PROPOSED PROJECT. A WETLAND AREA HAS BEEN IDENTIFIED ON THIS SITE AND A REPORT HAS BEEN PREPARED BY SOILS AND ENVIRONMENTAL SERVICES, INC. DATED NOVEMBER 21, 1992. THIS REPORT HAS BEEN SUBMITTED TO HOWARD COUNTY.
20. THE PAVEMENT SECTIONS AS SPECIFIED ON THESE PLANS ARE THE HOWARD COUNTY STANDARD SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING, THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED ENGINEER BASED ON IN-SITU TESTING OF THE SUBGRADE BY A CERTIFIED GEOTECHNICAL ENGINEER. THE TESTING AND GEOTECHNICAL ENGINEER'S RECOMMENDATIONS SHALL BE FURNISHED BY THE OWNER.
21. ON-SITE WATER AND SEWER IS TO BE PROVIDED BY WELL AND SEPTIC SYSTEM.
22. SOILS DATA FOR THE STORMWATER MANAGEMENT POND HAS BEEN PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. DATED MAY 20, 1993 AND IS AVAILABLE FROM THE OWNER.
23. THE CONTRACTOR IS TO NOTE THAT THE DEVELOPMENT OF THIS SITE IS TO COMPLY WITH THE CURRENT REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF JULY 26, 1990.
24. BOARD OF APPEALS CASE NO. BA 88-41E.

SWM DATA SUMMARY SHEET

DRAINAGE AREA TO POND: 16.18 ACRES RCN = 71 TC = 0.17 HR.
 D.A. II (UNMANAGED) = 19.70 ACRES RCN = 69 TC = 0.35 HR.

ALL FLOWS SHOWN ARE FOR WATERSHED IN WHICH SITE IS BEING DEVELOPED. FLOW RATES ARE IN CFS.

STORM	ALLOWABLE RELEASE	INFLOW	DISCHARGE	ELEV. FEET	STORAGE AC. FT.
2 YR.	17.77	31.8	15.7	466.14	0.73
10 YR.	60.52	86.1	54.7	467.59	1.35
100 YR.	118.54	154.1	125.5	468.49	1.78

SHEET INDEX

C-1	SITE DEVELOPMENT PLAN
C-2	SEDIMENT CONTROL PLAN
C-3	SEDIMENT CONTROL AND SWM DETAILS
C-4	SWM, STORM DRAIN PROFILES AND UTILITY DATA
C-5	FRONTAGE IMPROVEMENT, SWM SPECS AND SITE DETAILS
C-6	LANDSCAPE AND PLANTING PLAN

ADDRESS CHART

BUILDING	STREET ADDRESS
A	10950 HALL SHOP ROAD

SUBDIVISION NAME -
 PLAT # -
 WATER CODE - N/A

SECT./AREA -
 G
 SEWER CODE - N/A

PURCEL -
 1045
 CONSTRUCTION -
 5 TH
 6031 OE

AS BUILT CERTIFICATE

CHARLES T. GRIMSLEY # 11124 DATE

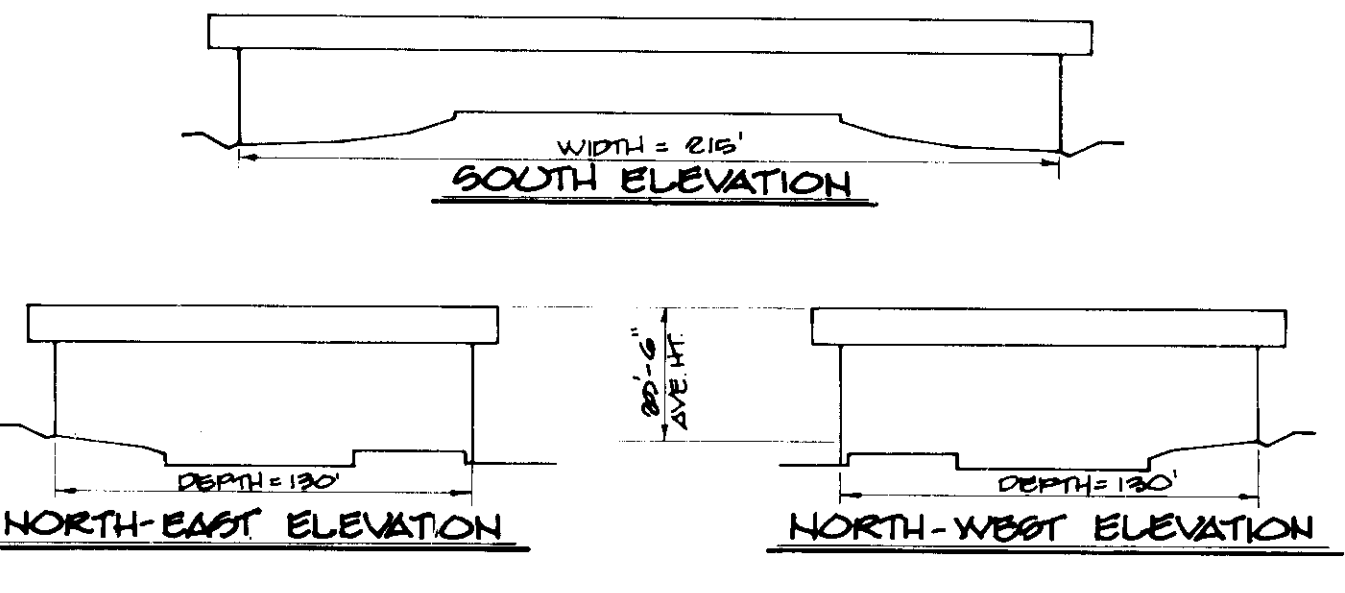
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 Director: James M. Boyd, Jr. DATE: 8/30/93

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 Director: G. M. Stewart DATE: 9/1/93

APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 Director: Paul J. Sporn DATE: 8/5/93

Chief, Bureau of Engineering: Paul J. Sporn DATE: 7/25/93

DATE	NO.	REVISION



OWNER: VALLEY BROOK COMMUNITY CHURCH
 9135 GUILFORD ROAD, SUITE 170
 COLUMBIA, MD 21046

VALLEY BROOK COMMUNITY CHURCH
SITE DEVELOPMENT PLAN
 AND SEWAGE DISPOSAL SYSTEM PLAN

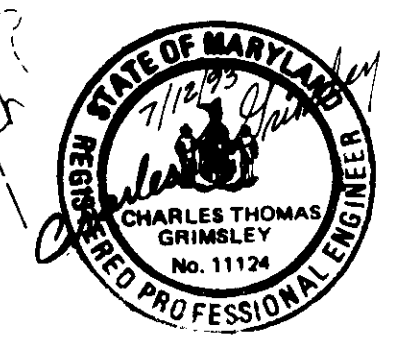
TAX MAP NO. 40, BLOCK 6, PARCEL 165, ZONED: R-R
 5 TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

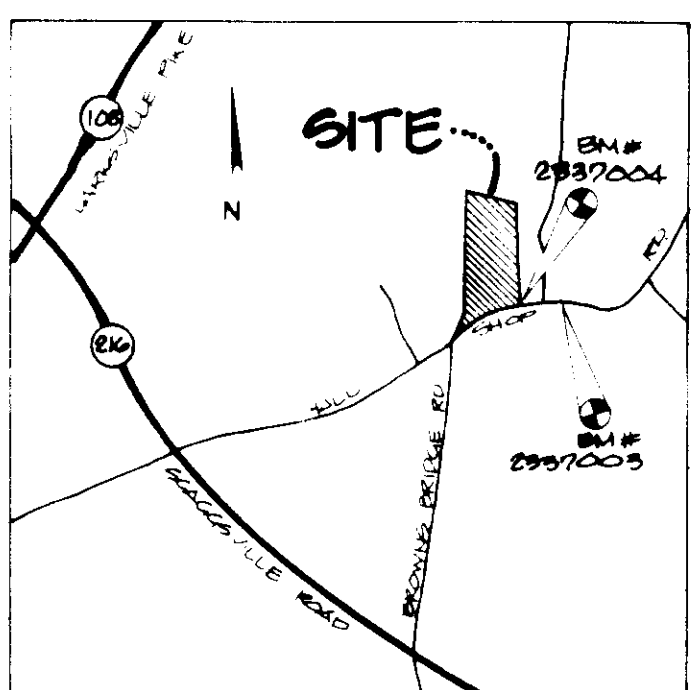
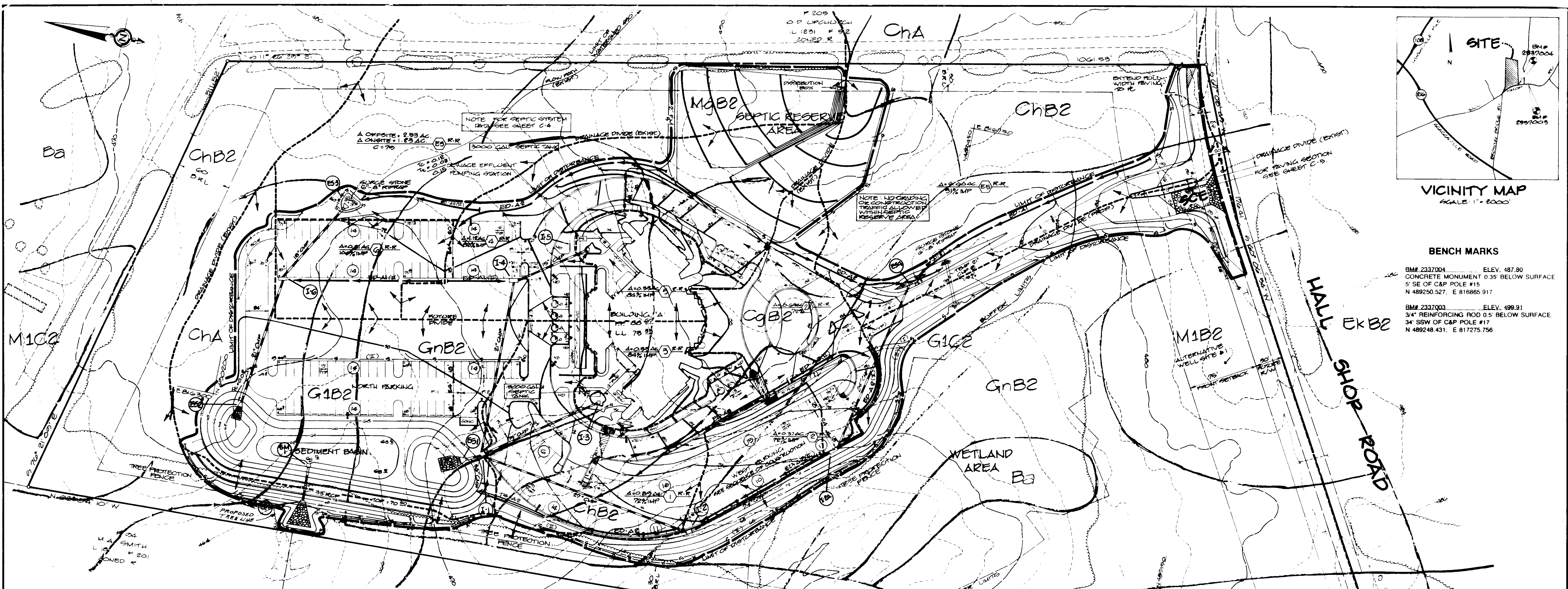
LANDMARK ENGINEERING
 1751 ELTON ROAD, SUITE 202
 SILVER SPRING, MARYLAND 20903
 Phone (301) 656-9550
 Fax (301) 652-3914

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Drawn BY: Field Book
 Scale: 1" = 50'
 Date: JULY 12, 1993
 Sheet: C-1 of 6
 Job No: 9210

SDP-93-58





VICINITY MAP
SCALE 1" = 5000'

BENCH MARKS

BM 2337004 ELEV. 487.80
CONCRETE MONUMENT 0.35' BELOW SURFACE
5' SE OF C&P POLE #15
N 489250.527, E 816865.917

BM 2337003 ELEV. 499.91
3/4" REINFORCING ROD 0.5' BELOW SURFACE
34' SSW OF C&P POLE #17
N 489248.431, E 817275.756

SEDIMENT BASIN & TEMPORARY SWM

EXISTING DRAINAGE AREA	8.76 AC.
MAXIMUM CONSTRUCTION D.A.	10.18 AC.
VOLUME REQ'D TO 10' 18" X 1800	18,325 CU. FT. (ELEV. 464.5)
VOLUME PROVIDED AT RISER CREST	57,400 CU. FT. (ELEV. 467.00)
CLEANOUT VOLUME 18.325 X .60	11,000 CU. FT. (ELEV. 464.00)
CLEANOUT ELEVATION	ELEV. 464.00 FT.
TOP OF DAM -- DESIGN GRADE	ELEV. 470.50
ELEV.	ELEV. 471.00
BOTTOM ELEV.	ELEV. 462.00
TEMPORARY SWM 2 YEAR PEAK	ELEV. 465.98
TEMPORARY SWM 100 YEAR PEAK	ELEV. 468.02

SEQUENCE OF CONSTRUCTION

GENERAL: THE SITE DEVELOPMENT FOR THIS PROJECT IS ANTICIPATED TO BE CONSTRUCTED IN TWO MAJOR PHASES. PHASE I REQUIRES THE INSTALLATION OF THE INITIAL PERIMETER CONTROLS AND SEDIMENT BASIN AS DESCRIBED IN THE SEQUENCE ITEMS 1. TO 7. THIS CONSTRUCTION PHASE ALLOWS FOR THE ACCESS AND PREPARATION OF THE BUILDING CONSTRUCTION SITE. ALL EARTHWORK ASSOCIATED WITH THIS PHASE SHOULD BE CONTAINED WITHIN THE AREA OF THE ESTABLISHED PHASE I SEDIMENT CONTROLS.

AT THE TIME THE CONTRACTOR WISHES TO BEGIN PHASE II EARTHWORK, STORM DRAINAGE AND SITE IMPROVEMENTS THE REMAINDER OF THE SEDIMENT CONTROLS AS REQUIRED BY SEQUENCE ITEMS 8. TO 12. SHALL BE INSTALLED. THE CONTRACTOR IS TO NOTE THAT THE BORROW REQUIRED FOR THE FILL NECESSARY TO COMPLETE THE SITE GRADING IS TO BE OBTAINED FROM A SITE WHICH HAS AN APPROVED SEDIMENT CONTROL PLAN. THE HSCD INSPECTOR SHALL BE PROVIDED THE NECESSARY INFORMATION, PLANS AND PERMITS TO ASSURE PROPER COMPLIANCE WITH THIS REQUIREMENT PRIOR TO THE BORROW BEING IMPORTED ONTO THIS SITE.

NOTE: SEDIMENT CONTROLS DESIGNATED THUS: (I) SHALL BE INSTALLED IN PHASE II.

- PHASE I**
- OBTAIN A GRADING PERMIT AND ALL OTHER NECESSARY PERMITS BEFORE BEGINNING CONSTRUCTION.
 - INSTALL TREE PROTECTION FENCING AS SHOWN PRIOR TO INSTALLATION OF ANY SEDIMENT CONTROLS.
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE AND ACCESS ROAD TO DEVELOPMENT AREA. TEMPORARY CULVERT MUST BE INSTALLED WITH THE EARTH BERMS ALONG ACCESS DRIVE.
 - NOTE THAT THE SEPTIC RESERVE AREA IS TO BE PROTECTED FROM ALL CONSTRUCTION TRAFFIC BY INSTALLING A PERIMETER SILT FENCE.
 - INSTALL SILT FENCES BELOW SEDIMENT BASIN AREA AND OTHER AREAS TO BE GRADED DURING BASIN CONSTRUCTION. PROVIDE TEMPORARY RIPRAP AT BASIN OUTLET AND CONSTRUCT SEDIMENT BASIN. BLOCK EXTENDED DETENTION ORIFICE ON BASIN OUTLET.
 - INSTALL ADDITIONAL SEDIMENT CONTROLS AND OBTAIN APPROVAL OF THE SEDIMENT CONTROL INSPECTOR.
 - BEGIN ROUGH GRADING OF SITE AND BUILDING CONSTRUCTION.

- PHASE II**
- INSTALL THE NECESSARY SEDIMENT CONTROLS TO BEGIN THE PHASE II SITE DEVELOPMENT AND OBTAIN APPROVAL OF THE SEDIMENT CONTROL INSPECTOR PRIOR TO BEGINNING FURTHER SITE WORK.
 - AS THE GRADING OF THE WEST PARKING AREA PROGRESSES THE LOWER SIDE OF THE FILL SHALL BE PITCHED BACK BEFORE THE END OF EACH DAY'S WORK TO FORM A BERM TO CARRY ANY STORM WATER TO THE SEDIMENT BASIN.
 - INSTALL STORM DRAINAGE SYSTEM, UTILITIES, CURB AND GUTTER FRONTAGE IMPROVEMENTS, BASE PAVING AND BEGIN STABILIZING ALL AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. NOTE THAT DRAINAGE IS NOT TO BE DIVERTED TO RS-4 UNTIL ALL AREAS ARE STABILIZED AND SEDIMENT BASIN IS CONVERTED TO PERMANENT SWM FACILITY.
 - UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR BEGIN THE CONVERSION OF THE SEDIMENT BASIN TO A PERMANENT STORMWATER MANAGEMENT FACILITY.
 - UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR REMOVE REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE ANY AREA DISTURBED BY THEIR REMOVAL IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

NOTE: THIS PLAN FOR EROSION AND SEDIMENT CONTROL ONLY!

LEGEND

- NOTE: ITEMS DENOTED THUS: (I) ARE TO BE CONSTRUCTED IN PHASE II OF THE SITE DEVELOPMENT.
- LIMIT OF DISTURBANCE
 - - - DRAINAGE DIVIDE
 - EARTH DIKE
 - SILT FENCE
 - FLOW PATH
 - SOILS DELINEATION
 - STABILIZED CONSTRUCTION ENTRANCE
 - TREE PROTECTION FENCING
 - TEMPORARY (PERIMETER) SWALE

SOILS LEGEND

- Ba - BAILE SILT LOAM
- ChA - CHESTER SILT LOAMS, 3 TO 8% SLOPES, MODERATELY ERODED
- ChB2 - CHESTER SILT LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
- CgB2 - CHESTER GRAVELLY SILT LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
- Eka - ELIOAK SILT LOAM, 0 TO 3% SLOPES
- Ekb2 - ELIOAK SILT LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
- G1B2 - GLENELG LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
- G1C2 - GLENELG LOAM, 8 TO 15% SLOPES, MODERATELY ERODED
- G2B2 - GLENVILLE SILT LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
- MgB2 - MANOR GRAVELLY LOAM, 3 TO 8% SLOPES, MODERATELY ERODED
- M2C2 - MANOR GRAVELLY LOAM, 8 TO 15% SLOPES, MODERATELY ERODED
- M1C2 - MANOR LOAM, 8 TO 15% SLOPES, MODERATELY ERODED

AS BUILT CERTIFICATE

CHARLES T. GRIMSLEY • 11124	DATE
APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	8/30/93
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	9/1/93
APPROVED: FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.	8/5/93
	7/25/93

BY DEVELOPER:

Michael A. Carrook 7/12/93
Signature of Developer Date

BY ENGINEER:

Charles T. Grimsley 7/12/93
Signature of Engineer Date

Charles T. Grimsley
Printed Name
MD PE 11124

James M. Johnson 7/19/93
Soil Conservation Services Date

Robert W. Zickler 7/19/93
Howard Soil Conservation District Date

OWNER:
VALLEY BROOK COMMUNITY CHURCH
9135 GUILFORD ROAD, SUITE 170
COLUMBIA, MD 21046

**VALLEY BROOK COMMUNITY CHURCH
SEDIMENT CONTROL PLAN**

TAX MAP NO. 4C, BLOCK 6, PARCEL 165, ZONED: R-R
5TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

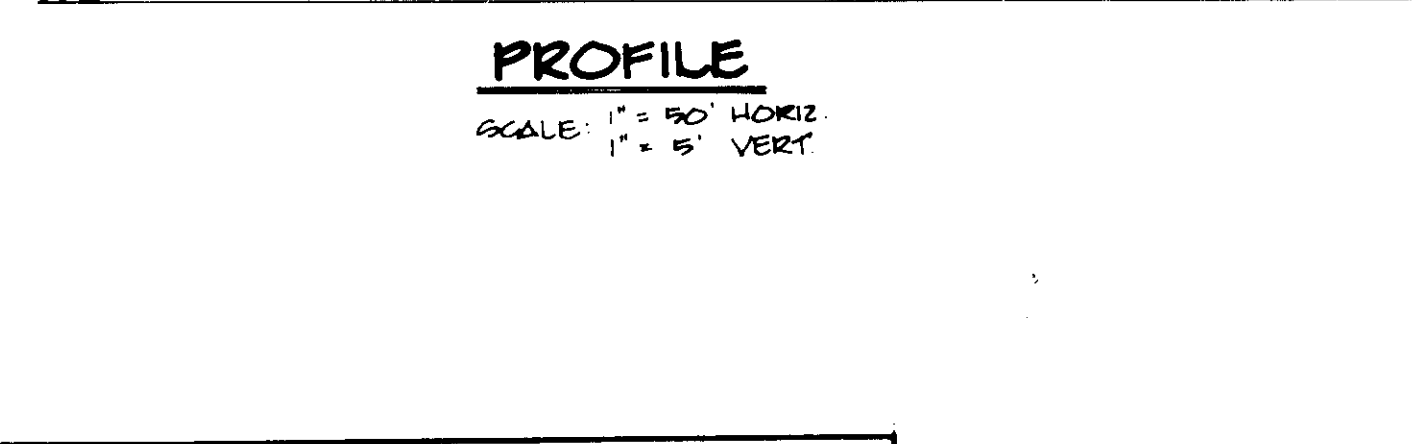
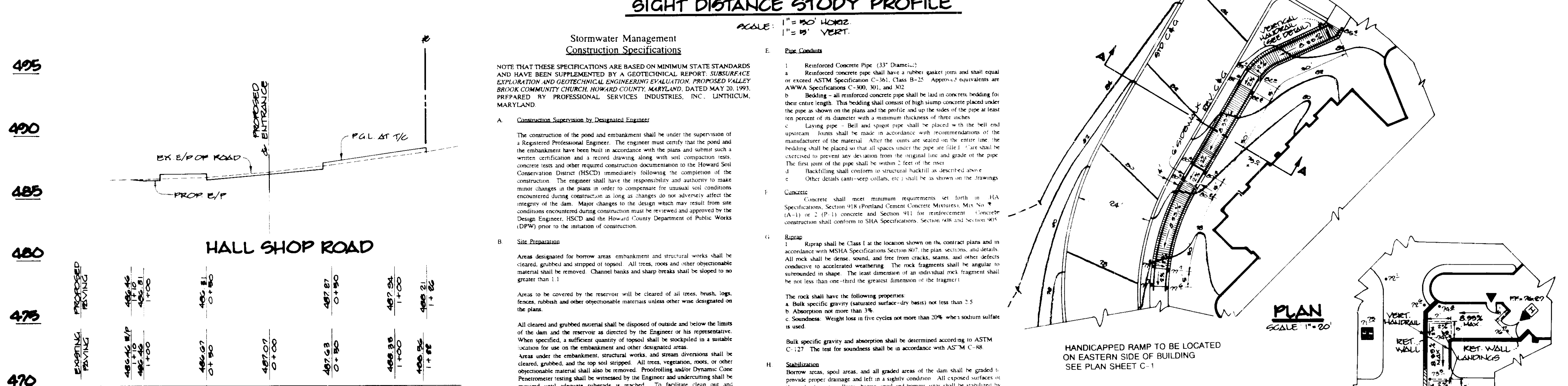
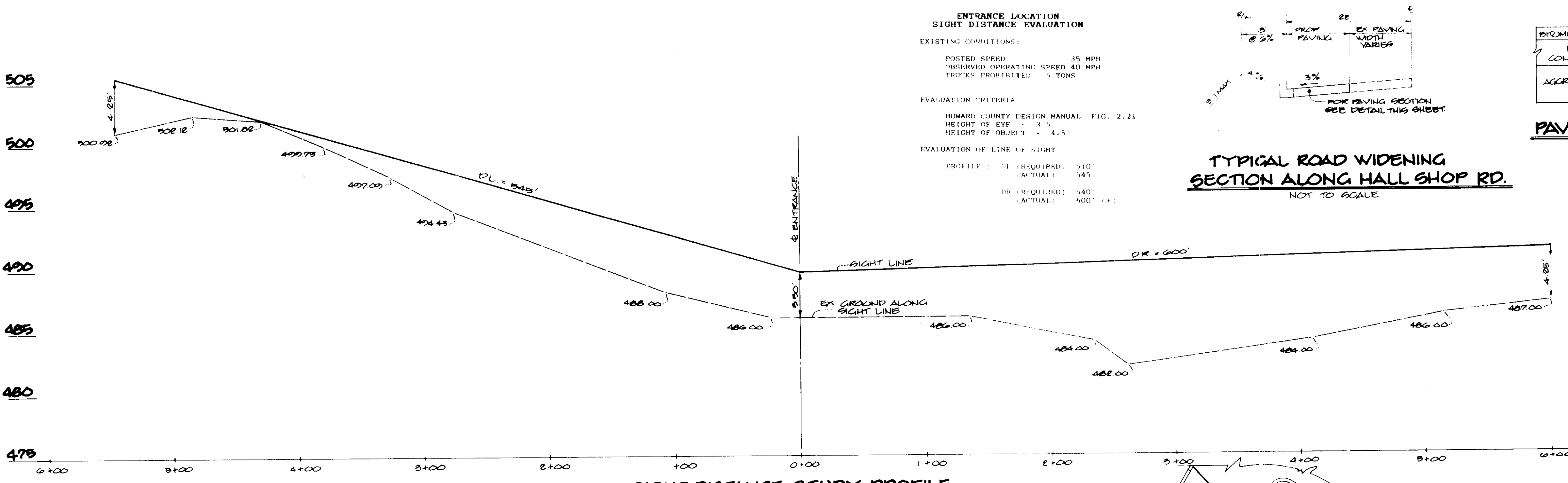
LANDMARK ENGINEERING
1751 ELTON ROAD, SUITE 202
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Phone (301) 656-9550
Fax (301) 652-3914

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Drawn DV Scale 1" = 50' Sheet C-2 of 6
Field Book Date JULY 12, 1993 Job No. 9210

SDP-93-58





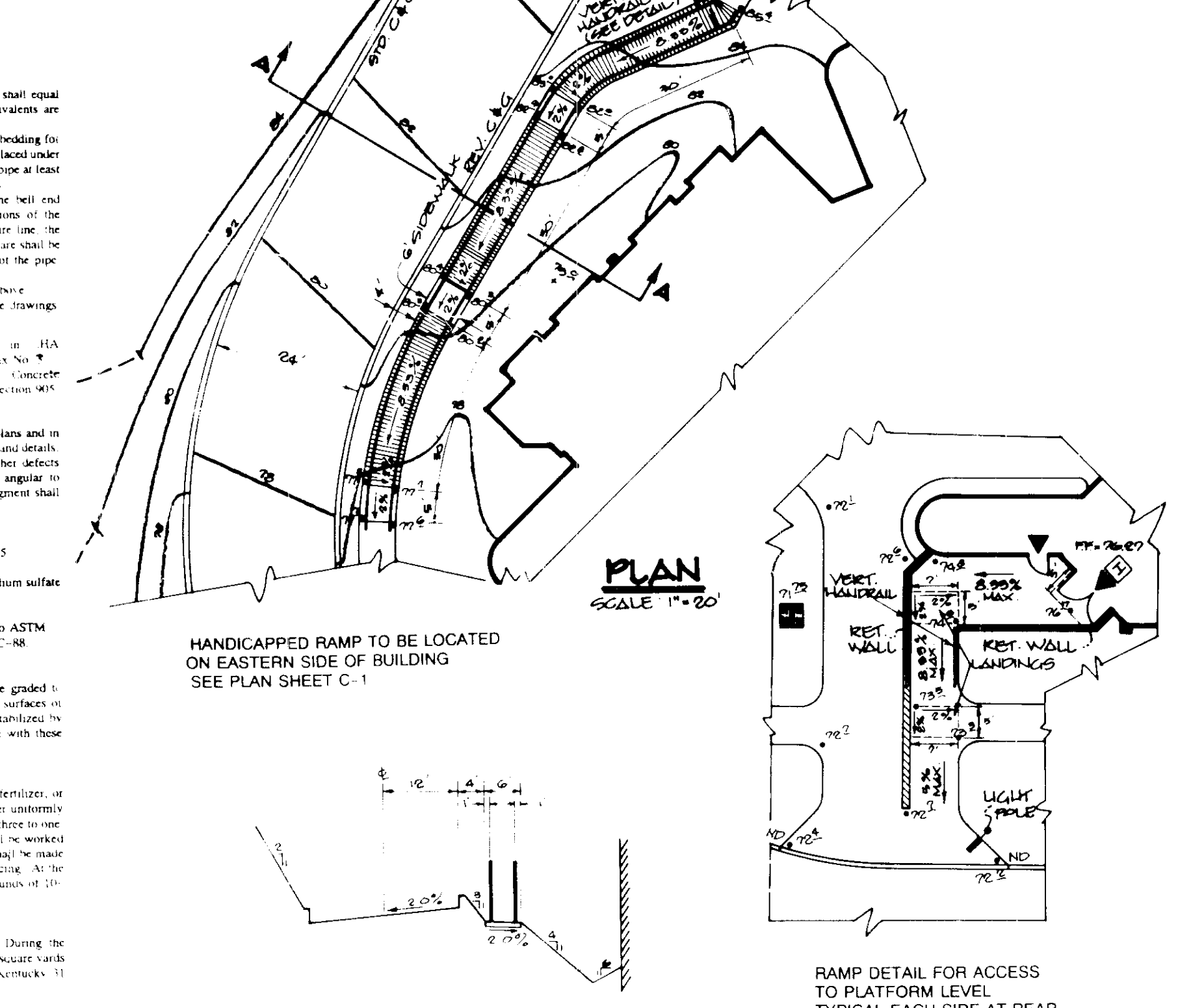
Stormwater Management Construction Specifications

NOTE THAT THESE SPECIFICATIONS ARE BASED ON MINIMUM STATE STANDARDS AND HAVE BEEN SUPPLEMENTED BY A GEOTECHNICAL REPORT, SUBSURFACE EVALUATION AND GEOTECHNICAL ENGINEERING SOLUTION, PROPOSED VALLEY BROOK COMMUNITY CHURCH, HOWARD COUNTY, MARYLAND, DATED MAY 20, 1993, PREPARED BY PROFESSIONAL SERVICES INDUSTRIES, INC., LINTHICUM, MARYLAND.

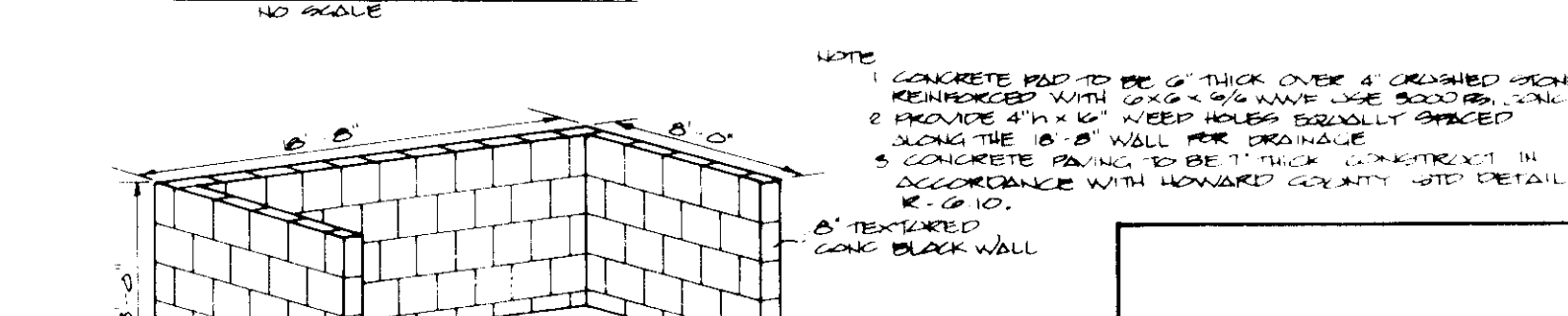
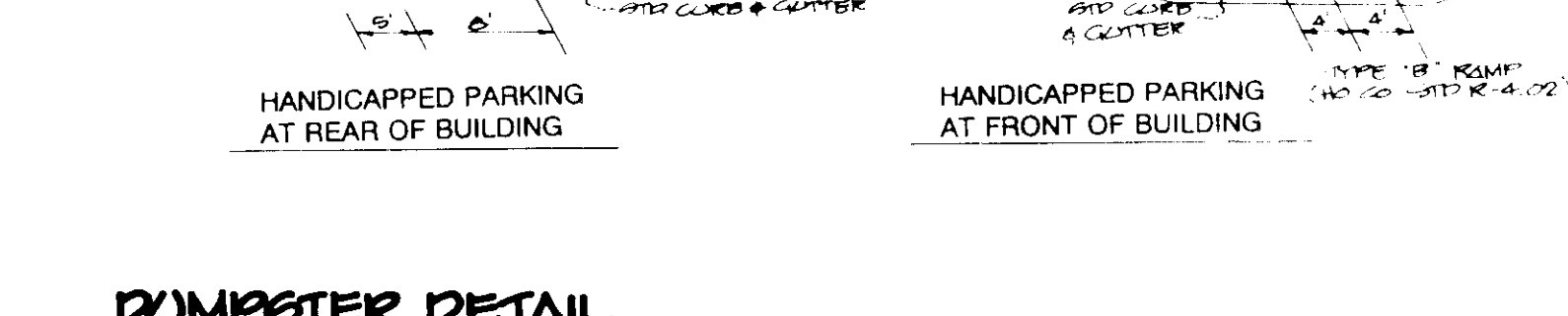
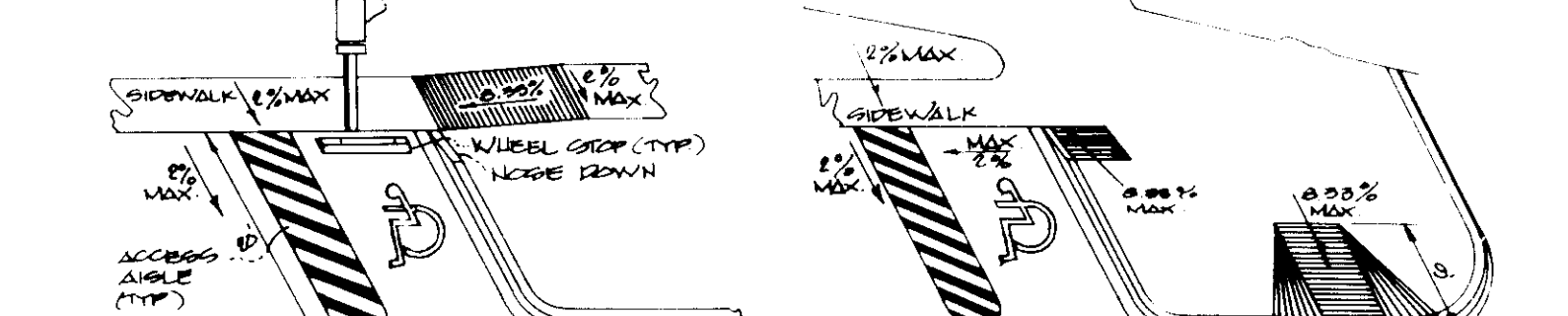
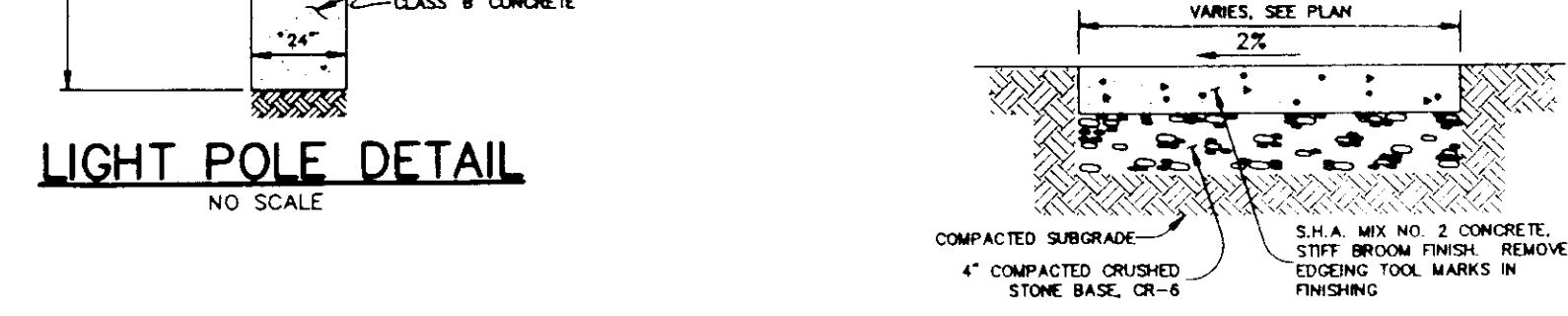
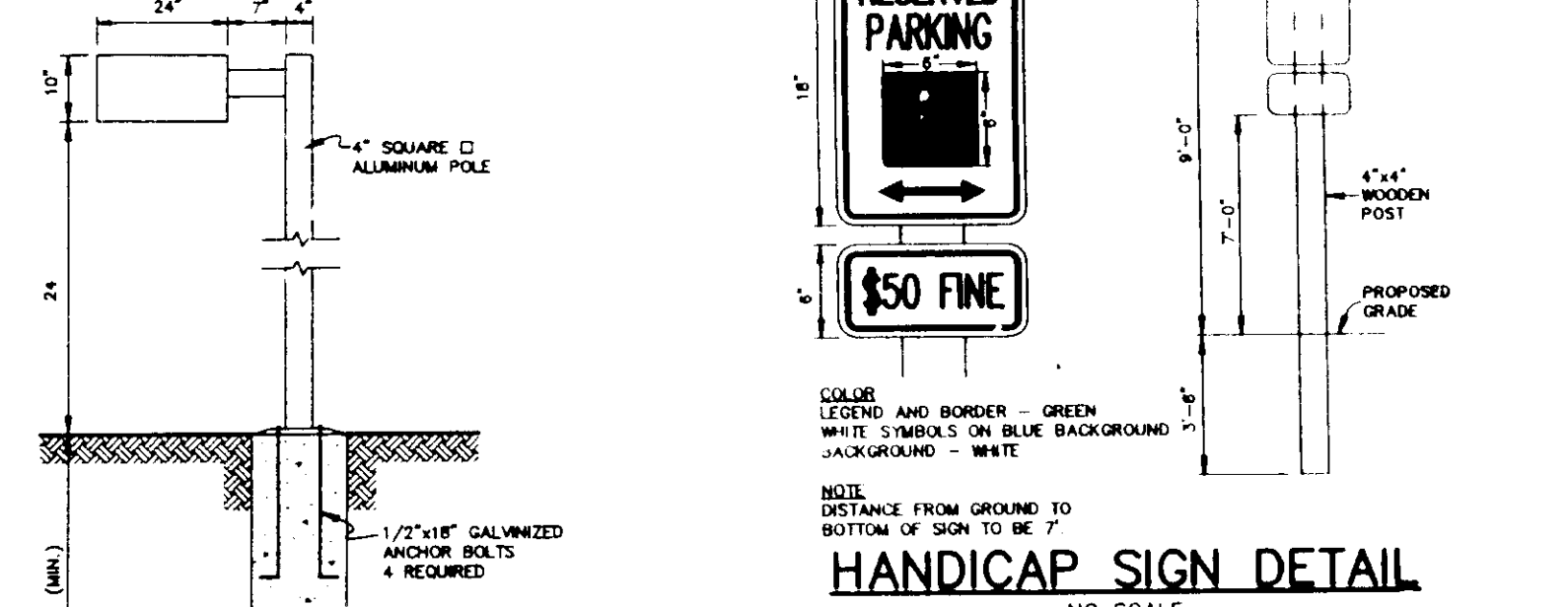
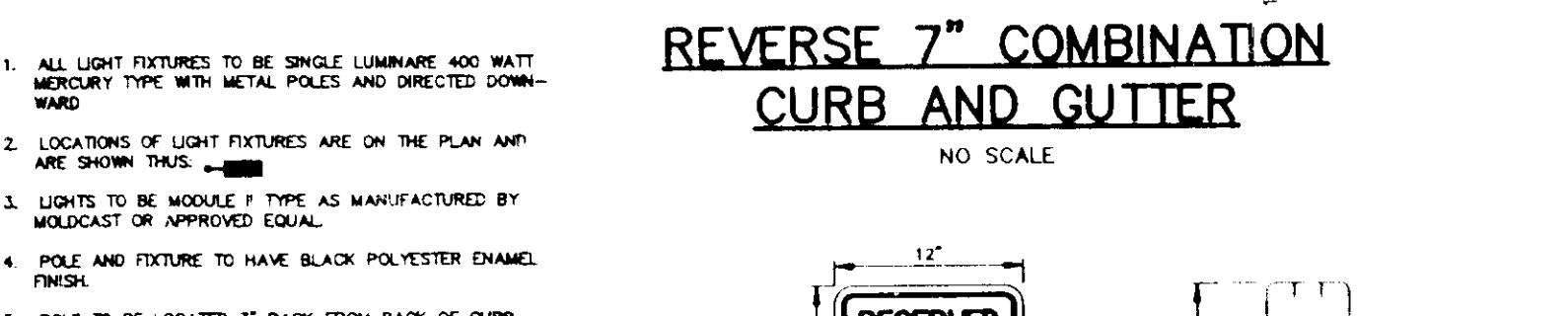
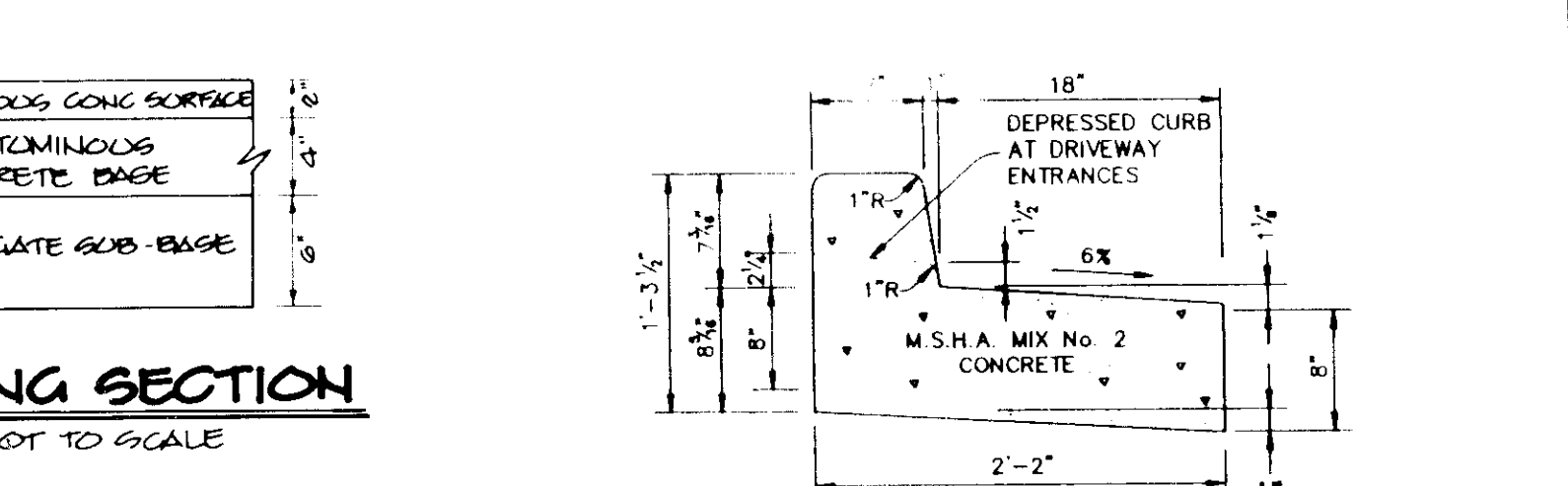
A. Construction Supervision by Designated Engineer
The construction of the pond and embankment shall be under the supervision of a Registered Professional Engineer. The engineer must certify that the pond and the embankment have been built in accordance with the plans and submit such a written certification and a record drawing, along with soil compaction tests, concrete tests and other required construction documentation to the Howard Soil Conservation District (HSCD) immediately following the completion of the construction. The engineer shall have the responsibility and authority to make minor changes in the plans in order to compensate for unusual soil conditions encountered during construction as long as changes do not adversely affect the integrity of the dam. Major changes to the design which may result from site conditions encountered during construction must be reviewed and approved by the Design Engineer, HSCD and the Howard County Department of Public Works (DPW) prior to the initiation of construction.

B. Site Preparation
Areas designated for borrow areas, embankment and structural works shall be cleared, grubbed and stripped of topsoil. All trees, rocks and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no greater than 1:1.
Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, railroads and other objectionable materials unless other work designated on the plans.
All cleared and grubbed material shall be disposed of outside and below the limits of the dam and the reservoir as directed by the Engineer or his representative. When specified, a sufficient quantity of topsoil shall be stockpiled in a suitable location for use on the embankment and other designated areas.
Areas under the embankment, structural works, and stream diversions shall be cleared, grubbed, and the soil stripped. All trees, vegetation, rocks, or other objectionable material shall also be removed. Protofiling and/or Dynamic Cone Penetrometer testing shall be witnessed by the Engineer and underlying shall be required until adequate subgrade is reached. To facilitate clean up and restoration, the permanent pool or impounding area should be cleared of all brush, trees, brush, and other objectionable material.

C. Earth Fill
Earth fill shall conform to SHA Specifications, Section 306 and the following:
1. Material
The fill material shall be taken from approved designated borrow areas or on-site excavated material approved by Engineer. The final decision as to the suitability of the exposed soil shall be made by the Engineer at the time of construction. All material shall be free from rocks, stumps, wood, rubbish, stones greater than 6\"/>



AS BUILT CERTIFICATE		
CHARLES T. GRIMSLEY # 11124	DATE	
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.		
<i>Joyce M. Boyd</i> COUNTY HEALTH OFFICER	8/30/93	
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.		
<i>James J. Miller</i> DIRECTOR	9/1/93	
<i>Gina Summari</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	9/1/93	
APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.		
<i>Richard J. ...</i> DIRECTOR	8/5/93	
<i>Richard J. ...</i> CHIEF, BUREAU OF ENGINEERING	7/28/93	
DATE	NO.	REVISION



OWNER: VALLEY BROOK COMMUNITY CHURCH
9135 GUILFORD ROAD, SUITE 170
COLUMBIA, MD 21046

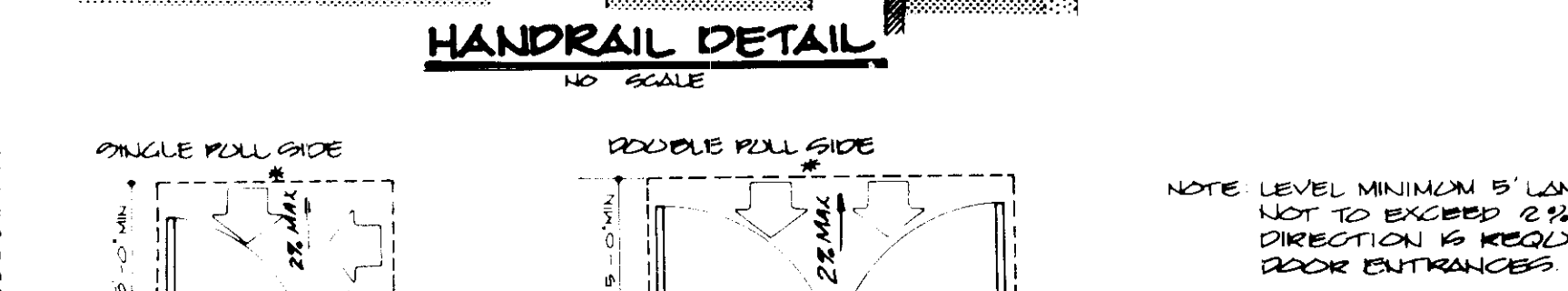
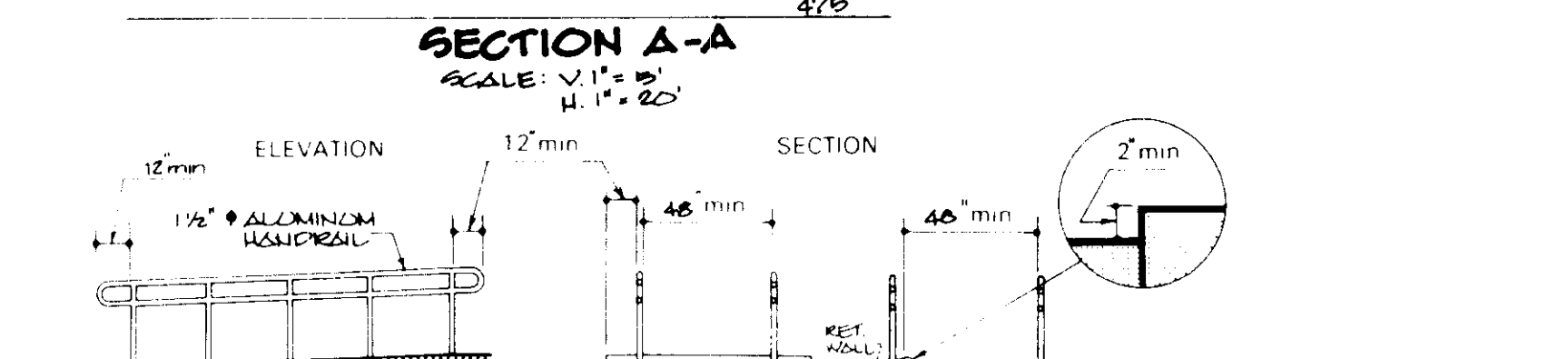
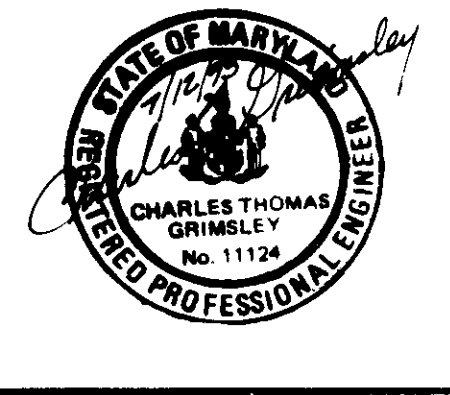
VALLEY BROOK COMMUNITY CHURCH FRONTAGE IMPROVEMENT, SWM SPECS AND SITE DETAILS

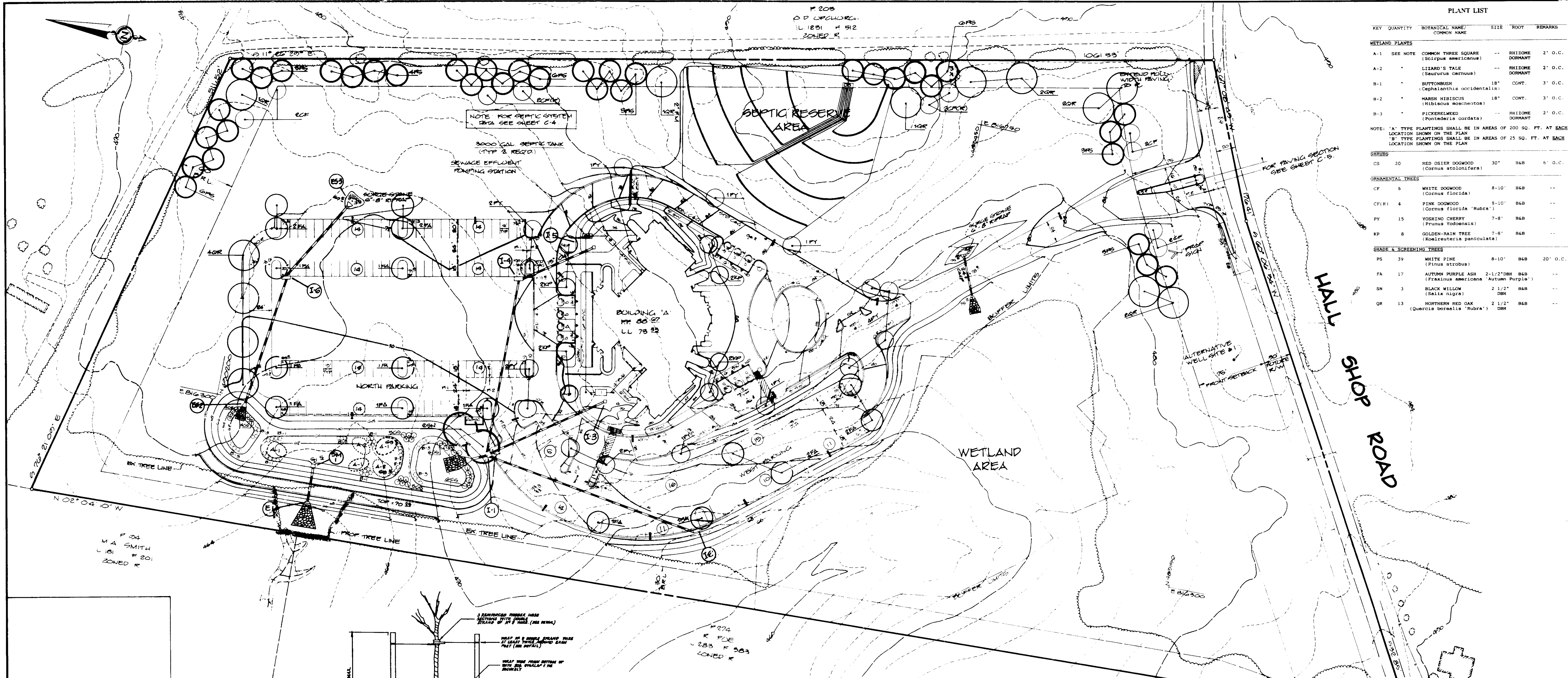
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5 TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

LANDMARK ENGINEERING
1751 ELTON ROAD, SUITE 202
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Phone (301) 656-9550
Fax (301) 652-3914

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Drawn P.V. Scale AS SHOWN Sheet C-5 of 6
Field Book Date JULY 12, 1993 Job No. 9210





PLANT LIST

KEY	QUANTITY	BOTANICAL NAME / COMMON NAME	SIZE	ROOT	REMARKS
WETLAND PLANTS					
A-1	SEE NOTE	COMMON THREE SQUARE (Scirpus americanus)	--	RHIZOME DORMANT	2' O.C.
A-2		LIZARD'S TALE (Saururus cernuus)	--	RHIZOME DORMANT	2' O.C.
B-1		BUTTERBUSH (Ceanothus occidentalis)	18"	CONT.	3' O.C.
B-2		MARSH HIBISCUS (Hibiscus moscheutos)	18"	CONT.	3' O.C.
B-3		PICKERWEED (Pontederia cordata)	--	RHIZOME DORMANT	2' O.C.
NOTE: 'A' TYPE PLANTINGS SHALL BE IN AREAS OF 200 SQ. FT. AT EACH LOCATION SHOWN ON THE PLAN. 'B' TYPE PLANTINGS SHALL BE IN AREAS OF 25 SQ. FT. AT EACH LOCATION SHOWN ON THE PLAN.					
SHRUBS					
CS	20	RED OSIER DOGWOOD (Cornus stolonifera)	30"	B&B	6' O.C.
ORNAMENTAL TREES					
CF	6	WHITE DOGWOOD (Cornus florida)	8-10'	B&B	--
CF(R)	4	PINK DOGWOOD (Cornus florida 'Rubra')	8-10'	B&B	--
PY	15	YOSHINO CHERRY (Prunus Yoshensis)	7-8'	B&B	--
KP	8	GOLDEN-RAIN TREE (Koeleria paniculata)	7-8'	B&B	--
SHADE & SCREENING TREES					
PS	39	WHITE PINE (Pinus strobus)	8-10'	B&B	20' O.C.
FA	17	AUTUMN PURPLE ASH (Fraxinus americana 'Autumn Purple')	2-1/2" DBH	B&B	--
SN	3	BLACK WILLOW (Salix nigra)	2 1/2"	DBH	B&B
QR	13	NORTHERN RED OAK (Quercus borealis 'Rubra')	2 1/2"	DBH	B&B

NOTE: THIS PLAN IS TO BE USED FOR LANDSCAPING ONLY!

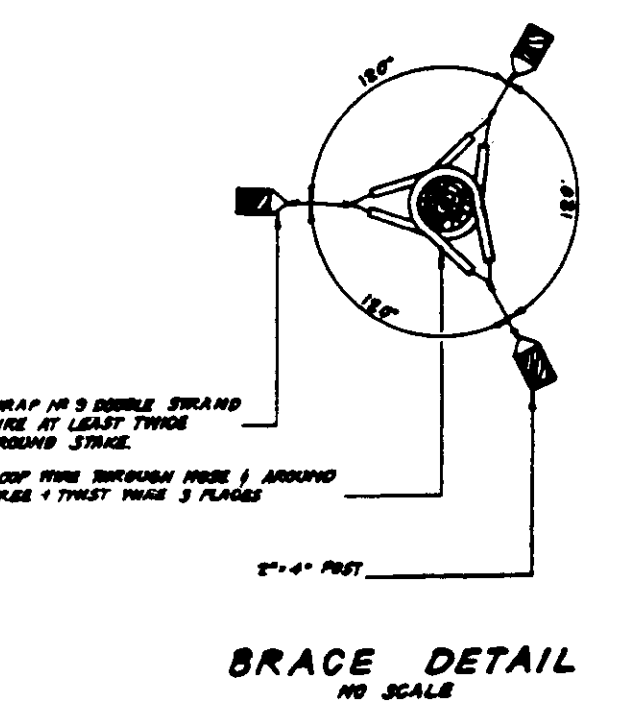
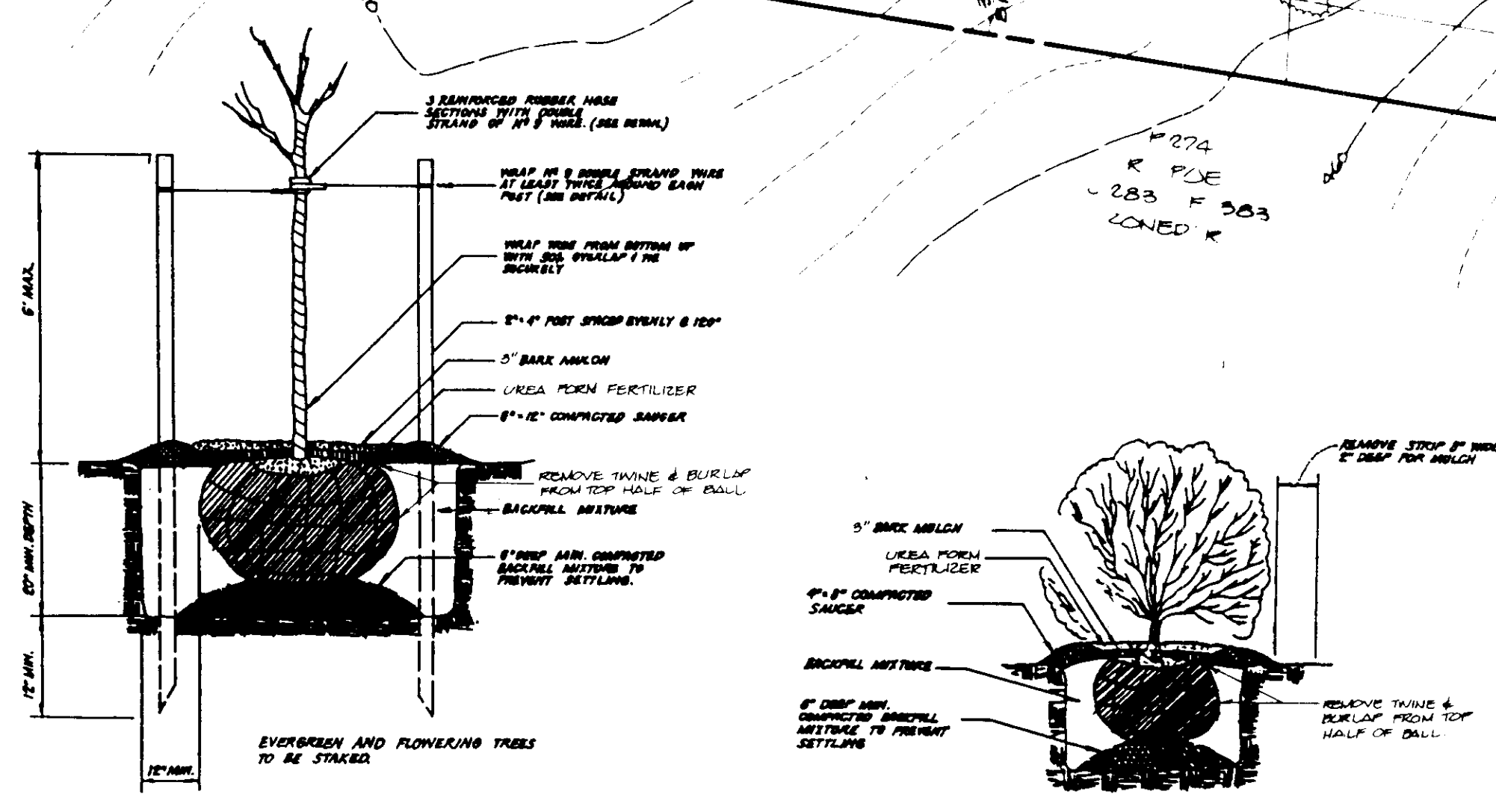
SCHEDULE A -- PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT ROADWAY	ADJACENT PROPERTY
LANDSCAPE TYPE	B	C
LINEAR FT. ROAD FRONTAGE/PERIMETER	794'	3122'
CREDIT FOR EXISTING VEGETATION	534'	2592'
NUMBER OF PLANTS REQ'D		
SHADE TREES	5	13
EVERGREEN TREES	8	27
NUMBER OF PLANTS PROVIDED		
SHADE TREES	4	10
EVERGREEN	8	31
SMALL DECIDUOUS	4	6

COMMENTS: CREDIT HAS BEEN TAKEN FOR 1 SHADE TREE AT ROADWAY EDGE WITH 4 SMALL DECIDUOUS TREES. CREDIT HAS BEEN TAKEN FOR 3 SHADE TREES ADJACENT TO THE REAR OF THE PARKING AREA. THESE TREES ARE NOT REQUIRED FOR INTERNAL LANDSCAPING. ADDITIONAL EVERGREENS AND SMALL DECIDUOUS TREES HAVE BEEN PROVIDED ALONG THE EASTERN PROPERTY LINE.

SCHEDULE B -- PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	200
NUMBER OF TREES REQUIRED	
SHADE TREES	10
NUMBER OF TREES PROVIDED	
SHADE TREES	13
SMALL DECIDUOUS	8
NUMBER OF LANDSCAPE ISLANDS REQUIRED	10
NUMBER OF LANDSCAPE ISLANDS PROVIDED	18



AS BUILT CERTIFICATE

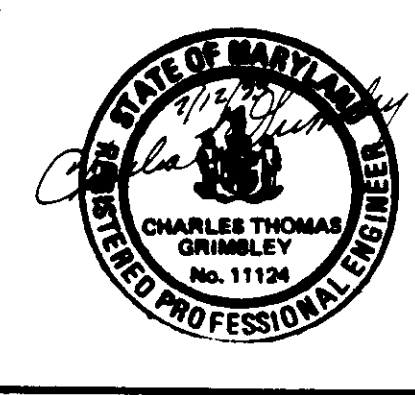
CHARLES T. GRIMSLEY # 11124	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	DATE
<i>Joseph R. Carter</i> 9/1/93 DIRECTOR	DATE
<i>Gina Trimmanni</i> 9/1/93 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
DATE	NO. REVISION

OWNER:
 VALLEY BROOK COMMUNITY CHURCH
 9135 GUILFORD ROAD, SUITE 170
 COLUMBIA, MD 21046

VALLEY BROOK COMMUNITY CHURCH
LANDSCAPE AND PLANTING PLAN
 TAX MAP NO. 4C, BLOCK 6, PARCEL 165, ZONED: R-R
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

LANDMARK ENGINEERING
 1751 ELTON ROAD, SUITE 202
 SILVER SPRING, MARYLAND 20903
 Phone (301) 656-9550
 Fax (301) 652-3914

consulting engineers • planners • surveyors
 Drawn: DV Scale: 1" = 20' Sheet: C-6 of 6
 Field Book Date: JULY 12, 1993 Job No.: 9210



NOTE:
 THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 10-182 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL.
 FINANCIAL CREDIT FOR 63 LANDSCAPE TREES IN THE AMOUNT OF \$4621.15 IS PART OF THE DEVELOPER'S AGREEMENT.