

SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING AND SEDIMENT CONTROL PLAN
4	SEDIMENT CONTROL NOTES AND DETAILS
5	PROFILES AND SITE DETAILS
6	LANDSCAPE PLAN

SITE DEVELOPMENT PLAN

COVENANT BAPTIST CHURCH

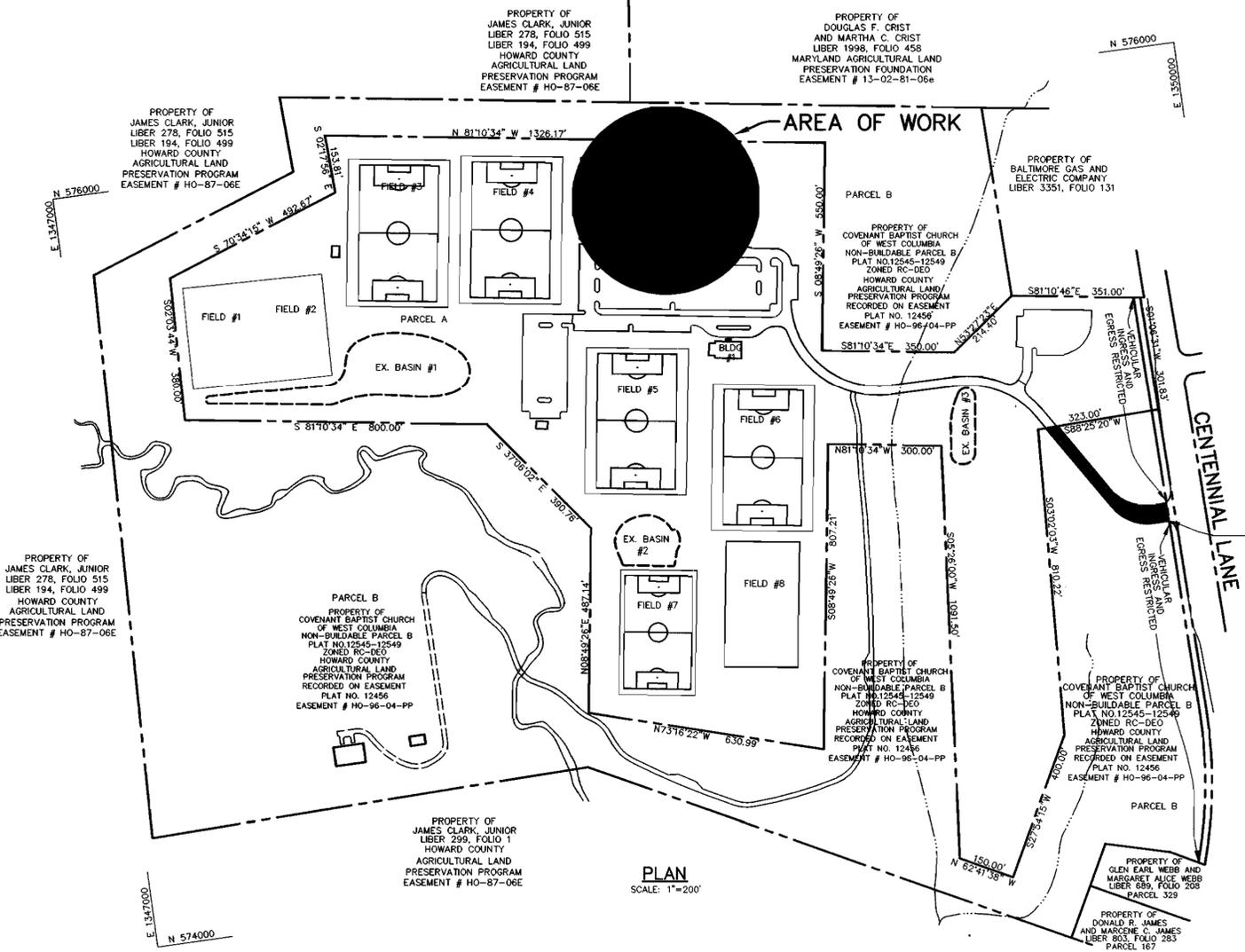
PHASE 1

2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

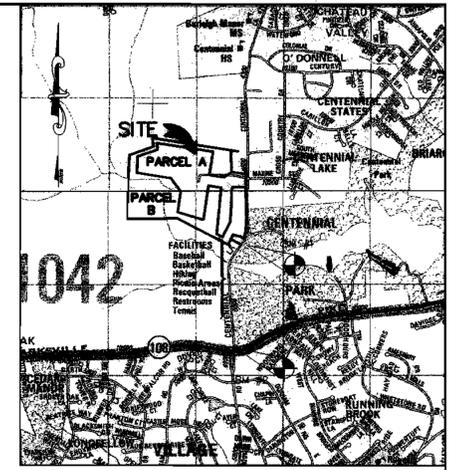
GENERAL NOTES

- 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 AERIAL SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER COLLINS & CARTER DATED MARCH, 2000.
- 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. 30AA AND 30CC WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. 24-4040-D
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATUXENT CONTRACT NO. 24-4040-D
- THE STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER SDP-02-75, VIA GRASS SWALES, AND THREE (3) STORMWATER MANAGEMENT PONDS. THE RECHARGE VOLUME WILL BE PROVIDED VIA THE GRASS CHANNEL. CREDIT WATER QUALITY VOLUME AND CHANNEL PROTECTION VOLUME WILL BE PROVIDED IN ONE (1) MICROPOOL EXTENDED DETENTION POND AND TWO (2) POCKET PONDS. THE FACILITIES WILL BE PRIVATELY MAINTAINED.
- 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 SHOWN FROM PLATS 12545-49, BY FCC, INC.
- A TRAFFIC STUDY HAS BEEN PREPARED BY THE TRAFFIC GROUP INC DATED
- A GEOTECHNICAL STUDY HAS BEEN PREPARED BY ECS, LTD DATED
- THE BOUNDARY FOR THIS PROJECT IS PER RECORD PLATS 12545-49 BY FCC, INC.
- 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: F-97-38, WP-97-60, PLAT OF EASEMENT 12456, BA-01-20E, SDP-02-75, BA-01-66C.
- 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 INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE 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 T80.
- THE PAVEMENT DETAILS SHOWN FOR THIS SITE REFLECT THE HOWARD COUNTY STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE.
- ALL LIGHTING IS 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.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION THROUGH THE CREATION OF 22.65 ACRES OF FOREST RETENTION EASEMENTS ON PARCELS A AND B, COVENANT BAPTIST CHURCH, UNDER SDP-02-75.
- THE WETLAND DELINEATION IS SHOWN FROM PLATS 12545-12549 BY FCC, INC.
- A PERMIT TO DISTURB NON-TIDAL WETLANDS WAS SUBMITTED TO MD DEPT OF ENVIRONMENT: PERMIT TRACKING NO. 200261257. BOTH AREAS OF DISTURBANCE HAVE BEEN DEEMED "NECESSARY" BY THE DEPARTMENT OF PLANNING AND ZONING.
- THIS PLAN IS SUBJECT TO THE FIFTH EDITION OF THE SUBDIVISION REGULATIONS, AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL NO. 50-2001.
- BA-01-66C WAS GRANTED ON JUNE 25, 2002 BY THE DEPARTMENT OF PLANNING AND ZONING FOR A CONDITIONAL USE FOR THE NEW RELIGIOUS FACILITY WITH THE FOLLOWING CONDITIONS:
 A. THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE PROPOSED RELIGIOUS FACILITY AS DESCRIBED IN THE PETITION, AS DESCRIBED IN THE FINDINGS OF FACTS AND CONCLUSIONS OF LAW OF THE FINAL DECISION AND ORDER, AS DEPICTED ON THE CONDITIONAL USE PLAN FOR THE 'COVENANT BAPTIST CHURCH' SUBMITTED ON NOVEMBER 6, 2001; AND AS MAY BE REVISED BY THE FOLLOWING CONDITIONS OR BY THE BOARD, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.
 B. THE PROPOSED CENTENNIAL LANE ENTRANCE SHALL BE REVISED TO COMPLY WITH THE BA-01-20E PLAN AND INCLUDE BOTH AN ACCELERATION AND DECELERATION LANE, OR AN ALTERATION TO THE BA-01-20E PLAN SHALL BE APPROVED TO ELIMINATE THE ACCELERATION LANE AND INSTEAD USE THIS LANE FOR A THROUGH-LANE FOR SOUTHBOUND TRAFFIC.
 C. THE EXISTING VEGETATION ON THE PROPERTY TO THE NORTH AND SOUTH OF THE EXISTING DRIVEWAY SHALL BE RETAINED TO THE GREATEST EXTENT POSSIBLE.
 D. THE REMOVAL OF VEGETATION FOR THE DRIVEWAY ACROSS PARCEL B SHALL BE KEPT TO AN ABSOLUTE MINIMUM, AND THE PETITIONER IS HEREBY ADVISED THAT EVEN WITH THE CONDITIONAL USE GRANT, THIS DEVELOPMENT WILL STILL NEED TO SUCCESSFULLY JUSTIFY THE DISTURBANCE IN THE WETLANDS AND BUFFERS UNDER THE 'NECESSARY DISTURBANCE' PROVISIONS OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS FOR THE SITE DEVELOPMENT PLAN PROCESS. THE PETITIONER SHALL SPECIFY WHETHER THERE WILL BE AN ACCESS EASEMENT ESTABLISHED ON PARCEL B FOR THIS PORTION OF THE DRIVEWAY, AND THE PETITIONER SHALL ALSO INCLUDE THIS PORTION OF PARCEL B WITHIN THE CONDITIONAL USE BOUNDARIES.
- NO CLEARINGS, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENTS.
- IF THE SOCCER FACILITY IS NOT CONSTRUCTED IN ACCORDANCE WITH SDP-02-75, THE RELIGIOUS FACILITY WILL NOT RECEIVE ITS FINAL USE AND OCCUPANCY PERMIT UNTIL ADEQUATE PARKING, STORMWATER MANAGEMENT, THE SHARED DRIVEWAY AND THE ENTRANCE ONTO CENTENNIAL LANE HAVE BEEN PROVIDED.
- LANDSCAPE SURETY WILL BE PROVIDED WITH THE GRADING PERMIT IN THE AMOUNT OF \$2,100.00.



PLAN
SCALE: 1" = 200'

ELEVATION
SCALE: 1" = 20'



VICINITY MAP
SCALE: 1" = 2000'

SITE TABULATION

COVENANT BAPTIST CHURCH OF WEST COLUMBIA - PARCEL A	
1. GROSS AREA OF TRACT	52.47
2. ZONING OF TRACT	RC-DEO
3. AREA OF FLOODPLAIN	1.16 AC
4. NET AREA	51.31 AC
5. LIMIT OF DISTURBANCE	1.20 AC
6. PROPOSED USE	RELIGIOUS FACILITY (SEE BA-01-66C)
7. BUILDING FLOOR AREA:	
FIRST FLOOR	13824 SF
SECOND FLOOR	9184 SF
8. PARKING AS REQUIRED UNDER BA-01-20E: SEE PARKING STUDY DATED APRIL 18, 2002	
9. CHURCH PARKING REQUIRED:	
1 SPACE PER 3 SEATS IN SANCTUARY:	
TOTAL SEATS THIS PHASE = 382	
PARKING REQUIRED = 382/3 = 128 SPACES	
10. CHURCH PARKING PROVIDED:	
SDP-02-75 PARKING LOT C = 311 SPACES (INCL 5 HC)	

SHARED PARKING AGREEMENT BETWEEN SOCCER ASSOCIATION OF COLUMBIA AND COVENANT BAPTIST CHURCH IS RECORDED UNDER L. 7883, F. 643, DATED DECEMBER 8, 2003.

NOTE: ACCESS EASEMENT ACROSS PARCEL B FOR PARCEL A USE IS RECORDED UNDER L.6643 F.312 DATED NOVEMBER 4, 2002.

BENCHMARKS

- BENCHMARK #1**
 HOWARD COUNTY SURVEY CONTROL STATION: 30AA
 N 573,870.208 E 1,349,816.541
 ELEVATION: 384.632
 CONCRETE MONUMENT ON EAST SIDE OF CENTENNIAL LANE 25' WEST OF CENTENNIAL PARK TENNIS COURTS.
- BENCHMARK #2**
 HOWARD COUNTY SURVEY CONTROL STATION: 300C
 N 571,937.689 E 1,349,597.163
 ELEVATION: 422.112
 CONCRETE MONUMENT WITHIN MEDIAN OF CENTENNIAL LANE 500' NORTH OF ROUTE 108.

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark D. Leight</i> DIRECTOR	<i>2/23/04</i> DATE
<i>Mark D. Leight</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	<i>2/18/04</i> DATE
<i>Chris Harris</i> CHIEF, DIVISION OF LAND DEVELOPMENT	<i>2/18/04</i> DATE

DATE	NO.	REVISION
OWNER	DEVELOPER	
SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373	COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397	
PROJECT: COVENANT BAPTIST CHURCH PHASE 1		
AREA: TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE: TITLE SHEET		

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

DATE: 2.23.04	DESIGNED BY: C.J.R.
DRAWN BY: DAM	PROJECT NO.: 11942-1.0 SDP1.DWG
DATE: FEBRUARY 23, 2004	SCALE: AS SHOWN
DRAWING NO.: 1 OF 6	

ADDRESS CHART

SITE NUMBER	STREET ADDRESS
BLOC #2	4560 CENTENNIAL LANE

SUBDIVISION NAME: COVENANT BAPTIST CHURCH OF WEST COLUMBIA		SECT./AREA: -	PARCEL: A
PLAT: 15652-15657	BLOCK ZONE: 1 RC-DEO	TAX MAP NO.: 30	ELECT. DIST.: 2nd
CENSUS TRACT: 6023.01			
WATER CODE: J-06	SEWER CODE: 5720200		

CHRISTOPHER J. REID #19949

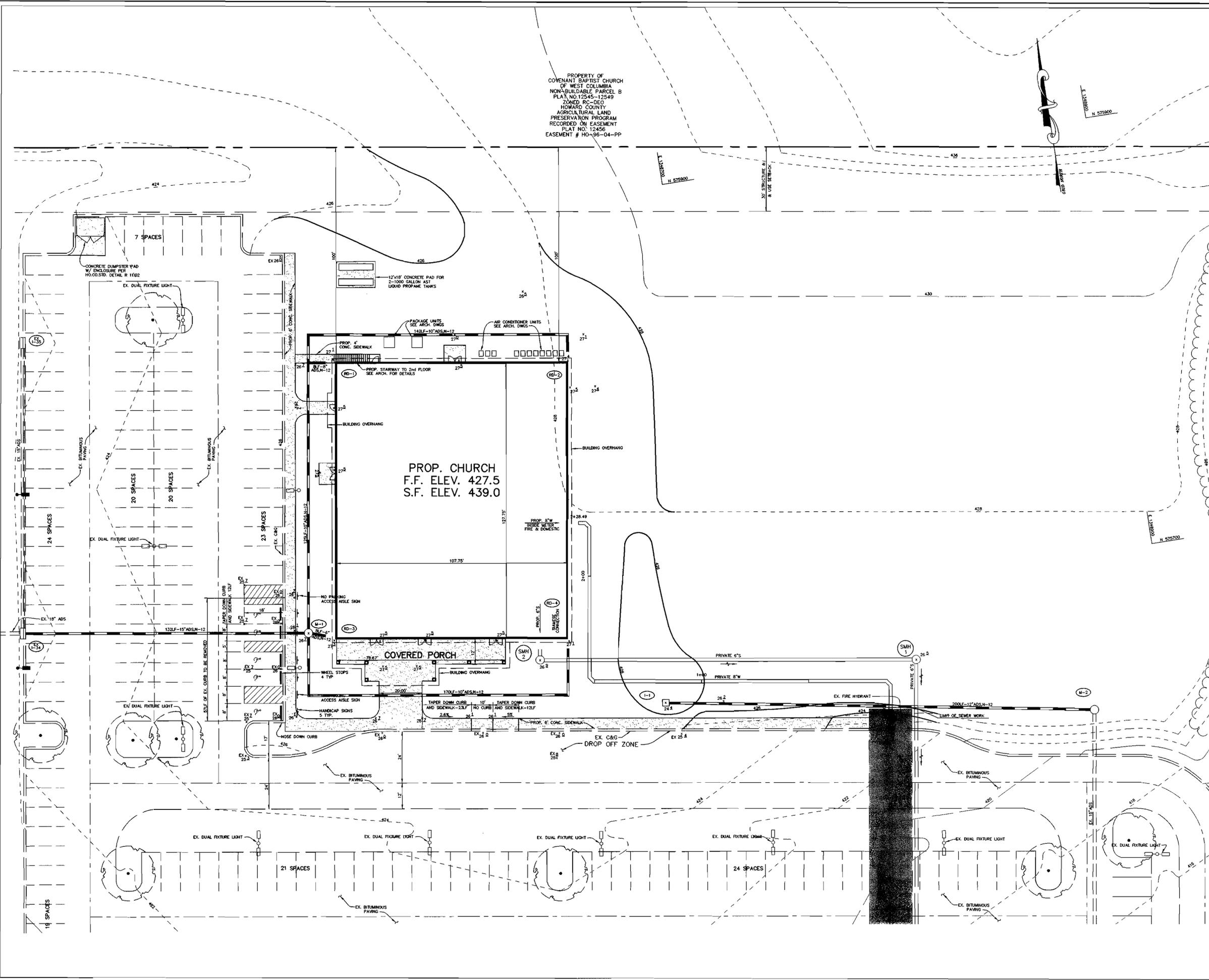
PROPERTY OF
COVENANT BAPTIST CHURCH
OF WEST COLUMBIA
NON-BUILDABLE PARCEL B
PLAT NO. 12545-12549
ZONED RC-DEO
HOWARD COUNTY
AGRICULTURAL LAND
PRESERVATION PROGRAM
RECORDED ON EASEMENT
PLAT NO. 12456
EASEMENT # HO-96-04-PP

LEGEND

- EX. CONTOUR 
- PROP. CONTOUR 
- EX. TREELINE 
- SETBACK LINES 
- CONCRETE SIDEWALK 
- EX. LIGHT 

NOTES:

1. ALL RADI ARE 5' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE NOTED.
3. ALL ON-SITE ROADS ARE PRIVATE.
4. ALL LIGHTING IS 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.
5. * STD/REV - STANDARD TO REVERSE CURB TRANSITION.
6. SITE LIGHTS TO BE 175 WATT MH CUTOFF RECTILINEAR FIXTURE (COOPER) MOUNTED AT 20' ON A EMBEDDED BRONZE FIBERGLASS POLE.
7. CONSTRUCTION OF ENTIRE PARKING LOT IS PER SDP-02-75 AND IS UNDERWAY. ANY UNCONSTRUCTED PARKING AND ACCESSWAYS WILL BE THE RESPONSIBILITY OF COVENANT BAPTIST CHURCH.
8. NO DISTURBANCE IS ALLOWED ON THE ADJACENT PARCEL B.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 Director: *Mark M. Leight* DATE: 3/15/04
 Chief, Development Engineering Division: *Mike* DATE: 3/10/04
 Chief, Division of Land Development: *Cindy Harrett* DATE: 3/15/04

DATE	NO.	REVISION
OWNER SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373		DEVELOPER COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397
PROJECT COVENANT BAPTIST CHURCH PHASE 1		
AREA TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
TITLE SITE DEVELOPMENT PLAN		
Patton Harris Rust & Associates, p.c. Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		
DATE 2-23-04		DESIGNED BY: C.J.R.
DRAWN BY: DAM		PROJECT NO.: 11942-1.0 SDP2.DWG
DATE: FEBRUARY 23, 2004		SCALE: 1" = 20'
DRAWING NO. 2 OF 6		CHRISTOPHER J. REID #19949



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NOTE: NO DISTURBANCE IS ALLOWED ON THE ADJACENT PARCEL B.

PROPERTY OF COVENANT BAPTIST CHURCH OF WEST COLUMBIA
NON-BUILDABLE PARCEL B
PLAT NO. 12545-12549
ZONED RC-DEO
HOWARD COUNTY
AGRICULTURAL LAND PRESERVATION PROGRAM
RECORDED ON EASEMENT
PLAT NO. 12456
EASEMENT # HO-06-04-PP

PROP. CHURCH
F.F. ELEV. 427.5
S.F. ELEV. 439.0

LEGEND

- EX. CONTOUR
- PROP. CONTOUR
- EX. TREE LINE
- LIMIT OF DISTURBANCE
- EROSION CONTROL MATTING
- SUPER SILT FENCE
- DRAINAGE AREA LIMITS

SOILS CHART			
MAP SYMBOL	NAME	EROSION HAZARD	SLOPE (%)
EKB2	ELIOAK SILT LOAM	MODERATE	3-8%
GIC2	GLENELG LOAM	MODERATE	8-15%
GB2	GLENELG LOAM	MODERATE	3-8%

DRAINAGE DATA

INLET NOS.	AREA IN ACRES	C FACTOR	PERCENT IMPERVIOUS
I-1	0.34	0.19	0
RD-1	0.12	0.86	100
RD-2	0.04	0.86	100
RD-3	0.04	0.86	100
RD-4	0.12	0.86	100

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.

Steve Em
DEVELOPER
2-23-04
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.

Chad J Lee
ENGINEER
2-23-04
DATE

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

Jim Meyers
NATURAL RESOURCES CONSERVATION SERVICE
3/2/04
DATE

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

John R Robertson
HOWARD SOIL CONSERVATION DISTRICT
3/2/04
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Marsha L. Lough
DIRECTOR
3/14/04
DATE

Mike
CHIEF, DEVELOPMENT ENGINEERING DIVISION
3/9/04
DATE

Cindy
CHIEF, DIVISION OF LAND DEVELOPMENT
3/15/04
DATE

DATE	NO.	REVISION
		OWNER: SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373
		DEVELOPER: COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397

PROJECT: COVENANT BAPTIST CHURCH PHASE 1

AREA: TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: GRADING AND SEDIMENT CONTROL PLAN

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

2-23-04
DATE

DESIGNED BY: C.J.R.

DRAWN BY: DAM

PROJECT NO: 11942-1.0
SDP3.DWG

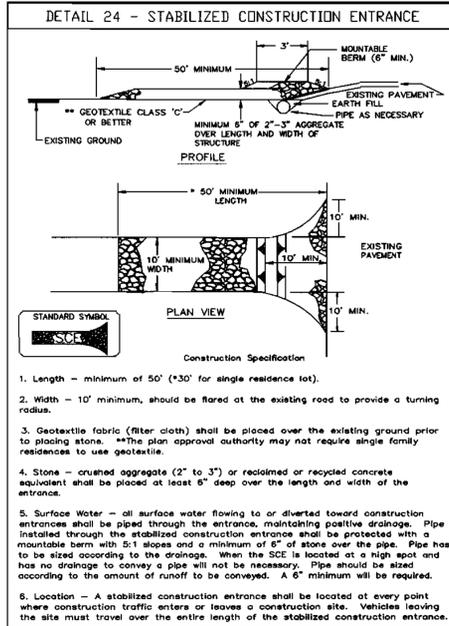
DATE: FEBRUARY 23, 2004

SCALE: 1" = 20'

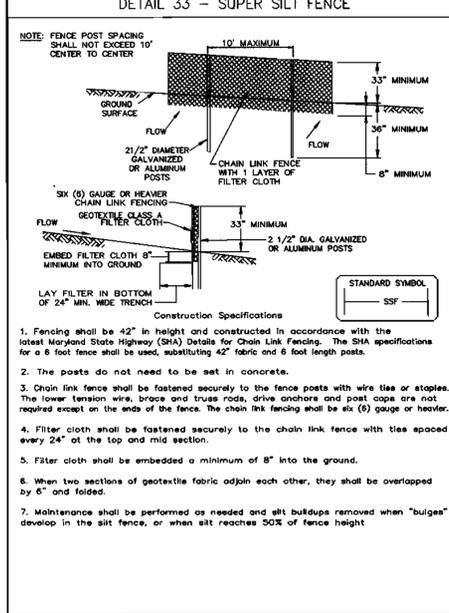
DRAWING NO. 3 OF 6



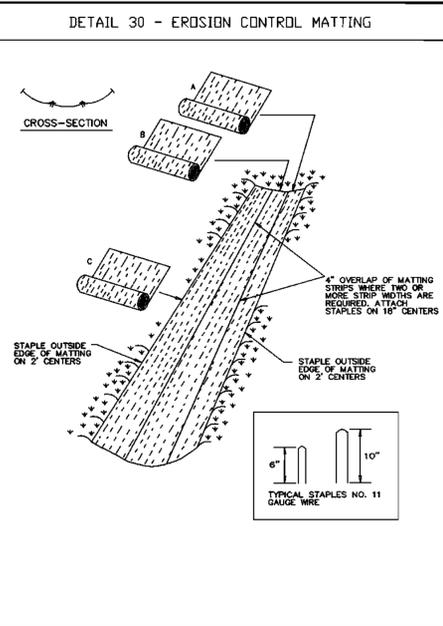
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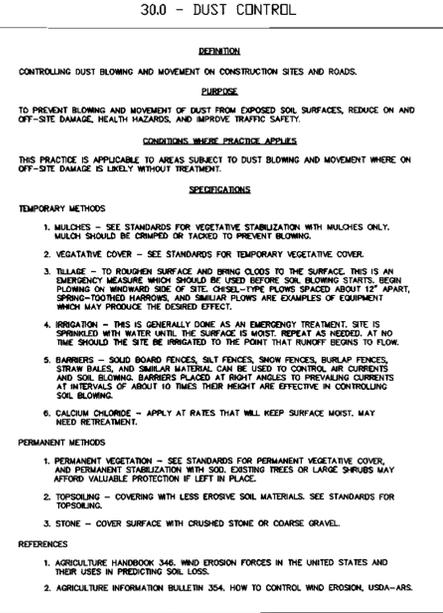
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE F - 17 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

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/parent 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-SSS in cooperation with Maryland Agricultural Experimentation 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 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutgrass, 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. Lime 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 I - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain test 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 sod 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.

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.

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, HD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1973.

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/parent 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-SSS in cooperation with Maryland Agricultural Experimentation 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 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutgrass, 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. Lime 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 I - Vegetative Stabilization Methods and Materials.
- For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain test 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 sod 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.

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.

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.

VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, HD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1973.

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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 147 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER FENCES, 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 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOIL 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.

7. SITE ANALYSIS:

TOTAL AREA OF SITE	52.47 ACRES
AREA TO BE ROOFED OR PAVED	1.4 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.4 ACRES
TOTAL CUT	120 CU. YARDS
TOTAL FILL	0 CU. YARDS

OFFSITE WASTE AREA LOCATION TO HAVE ACTIVE GRADING PERMIT.

- 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 CLEAR 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 re-disturbed where a 30%-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 (3.07 lbs. per 1000 sq. ft.); for the period November 16 thru February 29, practice 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 untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2lb. gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 5lb. gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Refer to the 1994 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 (1-year) 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 (4 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 (28 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 91 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. per acre Kentucky 91 Tall Fescue per acre and 2 lbs. per acre (.02 lbs. per 1000 sq. ft.) of weeping lovegrass. During the period October 16 thru February 29, practice 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 91 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 untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2lb. gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 5lb. gal. per acre (8 gal. per 1000 sq. ft.) for anchoring.

Maintenance - Inspect all seeded areas and make needed repairs, replacements and reseedings.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, SUPER SILT FENCE, (3 DAYS)
- ROUGH GRADE FOR BUILDING PAD. CONTRACTOR TO PROVIDE DUST CONTROL AS NECESSARY.
- AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAINS, WATER, AND SEWER. (2 WEEKS)
- APPLY TOPSOIL AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS)
- PERFORM FINE GRADING, LANDSCAPING, LIGHTING AND SIDEWALKS. (1 WEEK)
- UPON PERMISSION OF COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 DAYS)

BY THE DEVELOPER:

John R. Rabutson 2.23.04
DEVELOPER DATE

BY THE ENGINEER:

John R. Rabutson 3/2/04
ENGINEER DATE

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

John R. Rabutson 3/2/04
HOWARD SOIL CONSERVATION DISTRICT DATE

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

John R. Rabutson 3/2/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark A. Lytle 3/14/04
DIRECTOR DATE

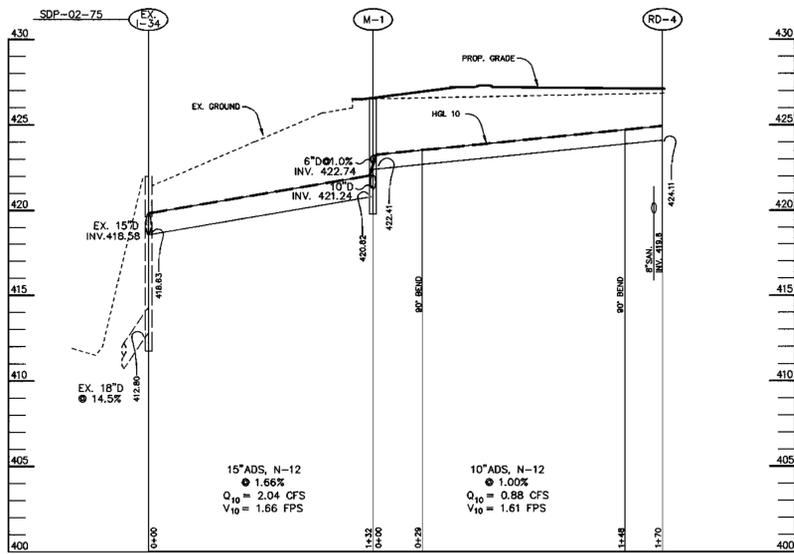
John R. Rabutson 3/14/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION MJK DATE

Cindy Hemmets 3/15/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION
OWNER	DEVELOPER	
SOCCER ASSOCIATION OF COLUMBIA, INC. 8880-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373	COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397	
PROJECT	COVENANT BAPTIST CHURCH PHASE 1	
AREA	TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE	SEDIMENT CONTROL NOTES AND DETAILS	
Patton Harris Rust & Associates, pc Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282		
2.23.04 DATE		
DESIGNED BY: C.J.R.		
DRAWN BY: DAM		
PROJECT NO: 11942-1.0 SDP4.DWG		
DATE: FEBRUARY 23, 2004		
SCALE: AS SHOWN		
DRAWING NO. 4 OF 6		

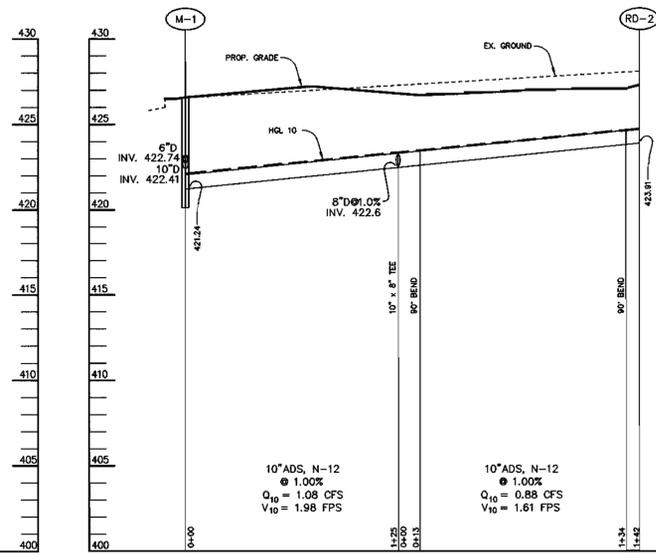
CHRISTOPHER J. REID #19949

SDP-04-46



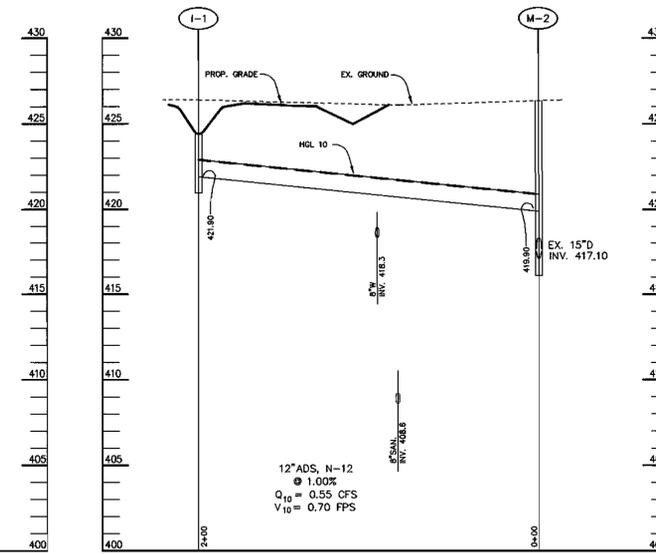
STORM DRAIN PROFILE

SCALE :
HOR. - 1"=50'
VERT. - 1"=5'



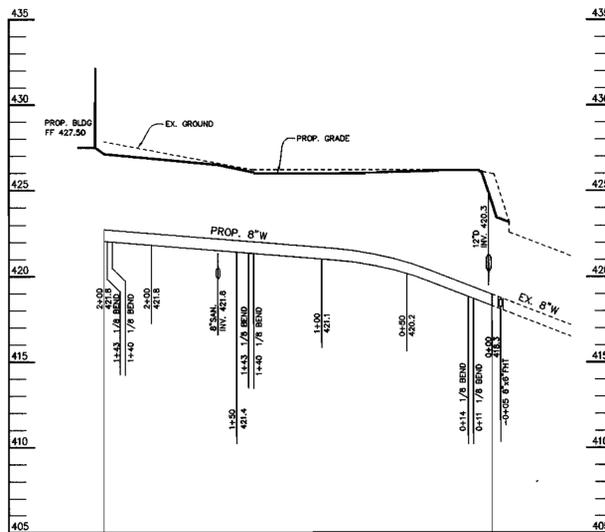
STORM DRAIN PROFILE

SCALE :
HOR. - 1"=50'
VERT. - 1"=5'



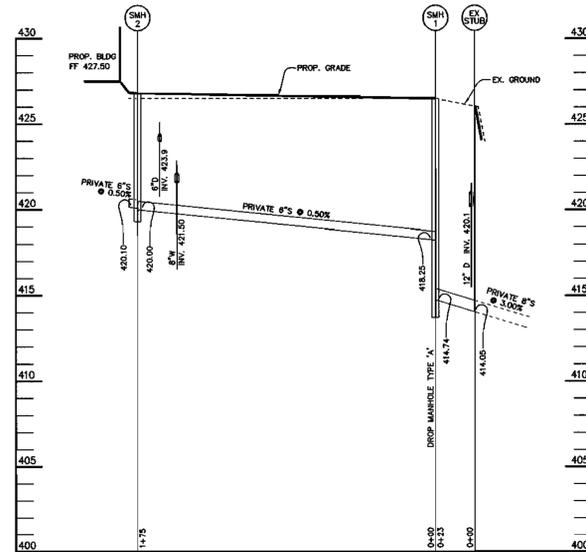
STORM DRAIN PROFILE

SCALE :
HOR. - 1"=50'
VERT. - 1"=5'



WATER PROFILE

SCALE :
HOR. - 1"=50'
VERT. - 1"=5'



SEWER PROFILE

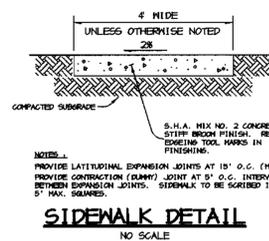
SCALE :
HOR. - 1"=50'
VERT. - 1"=5'

PIPE SCHEDULE

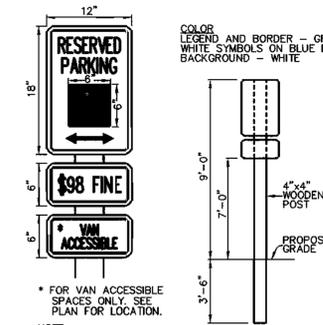
PIPE LENGTH	SIZE	TYPE
8'	6"	ADS, N-12
8'	8"	ADS, N-12
425'	10"	ADS, N-12
200'	12"	ADS, N-12
132'	15"	ADS, N-12

STRUCTURE SCHEDULE						
STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	15" DRAIN	N 575,661.98 E 1,348,664.30	-	421.90 (12")	424.4	15" ADS INLINE DRAIN
M-1	4'-0" DIA.	N 575,719.80 E 1,348,504.77	422.74 (6") 422.41/421.24 (10")	420.82 (15")	426.7	HOCO STD. DETAIL G-5.11
M-2	4'-0" DIA.	N 575,628.05 E 1,348,861.5	419.90 (12")	EX. 417.10	426.2	HOCO STD. DETAIL G-5.11
SMH-1	DROP 18" 4" DIA.	N 575,663.84 E 1,348,782.98	420.50	408.62	426.5	HOCO STD. DETAIL G-5.11
SMH-2	4'-0" DIA.	N 575,690.76 E 1,348,609.56	421.47	421.37	426.9	HOCO STD. DETAIL G-5.11

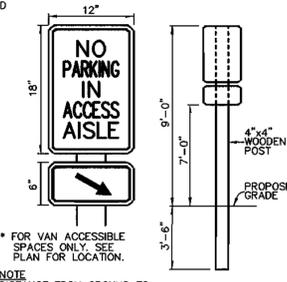
NOTES:
FOR END SECTIONS AND HEADWALLS THE LOCATION IS CENTER OF THROAT OPENING AT FACE OF STRUCTURE.
LOCATION OF INLETS AND MANHOLES IS AT CENTER OF TOP COVER; FOR "A" INLETS LOCATION IS GIVEN FOR CENTER OF THROAT OPENING AT FACE OF CURB;



SIDEWALK DETAIL
NO SCALE



HANDICAP SIGN DETAIL
NO SCALE



ACCESS AISLE SIGN
NO SCALE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark DeCoughlin</i>	2/14/04
DIRECTOR	DATE
<i>Michael J. ...</i>	3/6/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Cindy Hamstra</i>	2/15/04
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

DATE	NO.	REVISION

OWNER SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373	DEVELOPER COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397
---	--

PROJECT
COVENANT BAPTIST CHURCH PHASE 1

AREA
TAX MAP 30 BLOCK 1 ZONED RC-DEO
COVENANT BAPTIST CHURCH OF WEST COLUMBIA
PARCEL A PLATS 15652-15657
2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE
PROFILES AND SITE DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE
2-23-04

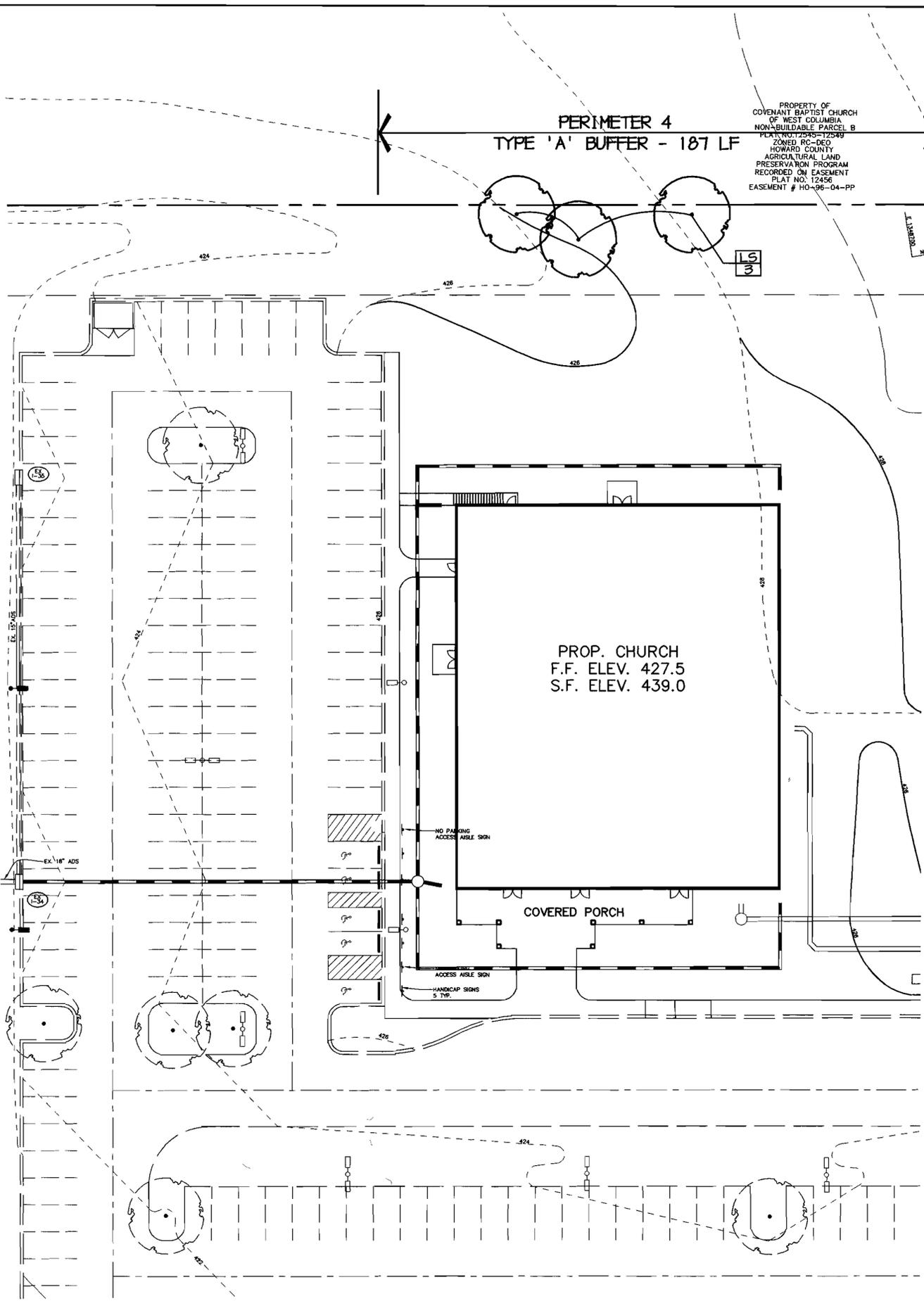
DESIGNED BY : C.J.R.
DRAWN BY : DAM
PROJECT NO : 11942-1.0
SDP5.DWG
DATE : FEBRUARY 23, 2004
SCALE : AS SHOWN
DRAWING NO. 5 OF 6

CHRISTOPHER J. REID #19949

PROPERTY OF COVENANT BAPTIST CHURCH OF WEST COLUMBIA
 NON-BUILDABLE PARCEL B
 PLAN NO. 12549
 ZONED RC-DEO
 HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM
 RECORDED ON EASEMENT PLAT NO. 12456
 EASEMENT # HO-05-04-PP

PERIMETER 4
 TYPE 'A' BUFFER - 187 LF

PERIMETER 3
 TYPE 'A' BUFFER - 260 LF



LEGEND	
PROPERTY LINE	
CONTOUR LINES	
EX. TREELINE	
EX. SHADE TREE (PROVIDED BY SDP-02-75)	
PROP. SHADE TREE	
LANDSCAPE REQUIREMENT	AR 4
PERIMETER LANDSCAPE EDGE LIMITS	

PLANT LIST					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
AR	4	Acer rubrum 'October Glory' October Glory Red Maple	2.5"-3" cal.	B&B	Plant as shown
LS	3	Liquidambar styraciflua Sweet Gum	2.5"-3" cal.	B&B	Plant as shown

PERIMETER	ADJACENT TO PERIMETER PROPERTIES	
	3*	4*
LANDSCAPE TYPE	A	A
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	260' ±	187' ±
CREDIT FOR EXISTING DRIVE AISLE (LINEAR FEET)	NO	NO
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
LINEAR FEET REMAINING	260' ±	187' ±
CREDIT FOR WALL, FENCE, OR BERM (YES/NO/LINEAR FEET)	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	4	3
EVERGREEN TREES	0	0
SHRUBS	0	0
NUMBER OF PLANTS PROVIDED		
SHADE TREES	4	3
EVERGREEN TREES	0	0
SMALL FLOWERING TREES	0	0
SHRUBS	0	0

SCHEDULE A NOTES:
 * PERIMETERS 3 AND 4 DELINEATED PER SOCCER ASSOCIATION OF COLUMBIA PLANS, SEE SDP-02-75, SHEETS 27, 24, AND 30.

GENERAL 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 MUST BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$2,100.00 (7 SHADE TREES @ \$300 = \$2,100).
- THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
- NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS LANDSCAPE PLAN MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL "REDLINE REVISION" TO THE SITE DEVELOPMENT PLAN(S) AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.
- STORMWATER MANAGEMENT AREA LANDSCAPING REQUIREMENTS WERE SATISFIED UNDER SDP-02-75.
- PARKING LOT INTERNAL LANDSCAPING REQUIREMENTS WERE SATISFIED UNDER SDP-02-75.
- PERIMETER PARKING REQUIREMENTS OTHER THAN THAT SHOWN ON THIS PLAN, WERE SATISFIED UNDER SDP-02-75. PERIMETER PARKING REQUIREMENTS SHOWN ON THIS PLAN WERE DEFERRED UNDER SDP-02-75 UNTIL SUCH TIME AS THIS BUILDING WAS DEVELOPED.

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.

Sto Ein 2-23-04
 SIGNATURE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark A. Vogel</i>	3/16/04
DIRECTOR	DATE
<i>Mark A. Vogel</i>	3/16/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Chris H. Hunter</i>	3/15/04
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

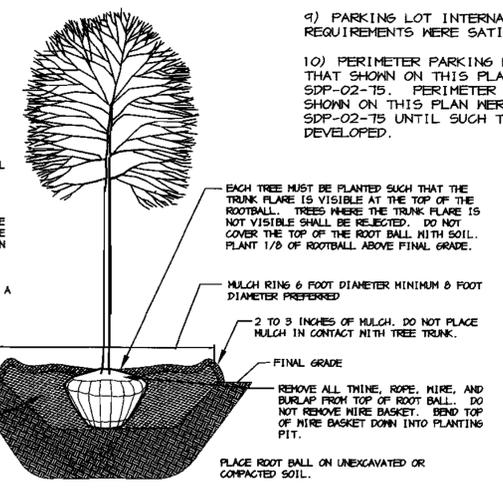
OWNER	DEVELOPER
SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373	COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397

PROJECT	COVENANT BAPTIST CHURCH PHASE 1
AREA	TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE	LANDSCAPE PLAN
Patton Harris Rust & Associates, PC Engineers, Surveyors, Planners, Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282	

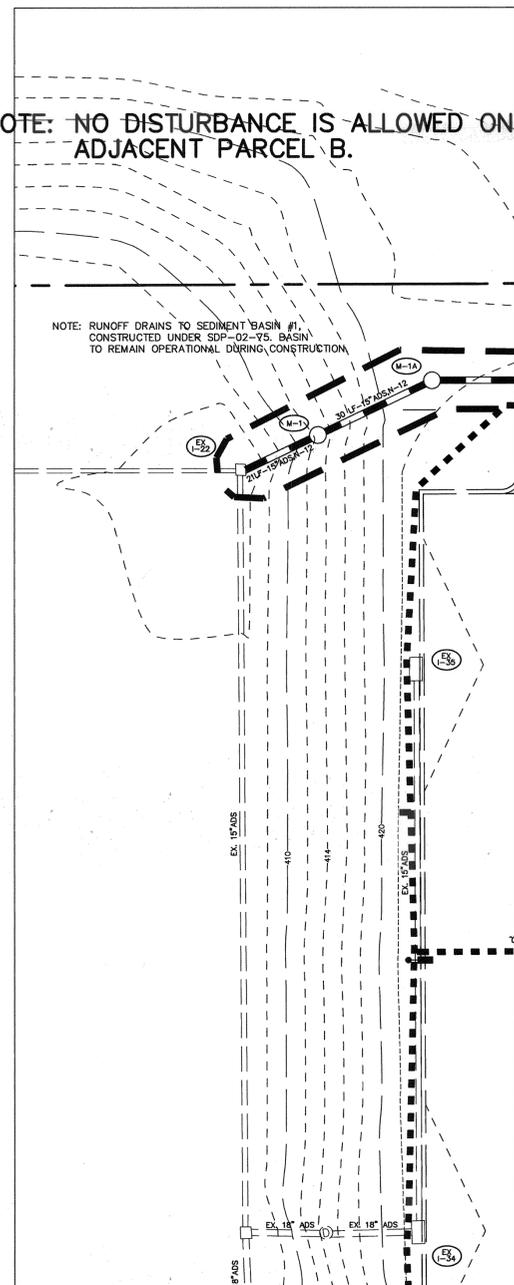
DATE	2.23.04
DESIGNED BY:	G.T.H.
DRAWN BY:	G.T.H.
PROJECT NO.:	11942-1.0 SDP6.DWG
DATE:	FEBRUARY 23, 2004
SCALE:	1" = 20'
DRAWING NO.:	6 OF 6

- NOTES:
- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR THIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
 - STAKE TREES ONLY IF RECOMMENDED ON THE PLANT SCHEDULE OR UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. STAKING DETAIL SHOWN ONLY IF RECOMMENDED.
 - DIG PLANTING PIT TWICE AS WIDE AS THE DIAMETER OF THE TOP OF THE ROOT BALL WITH A MINIMUM PLANTING PIT DIAMETER OF 5'.



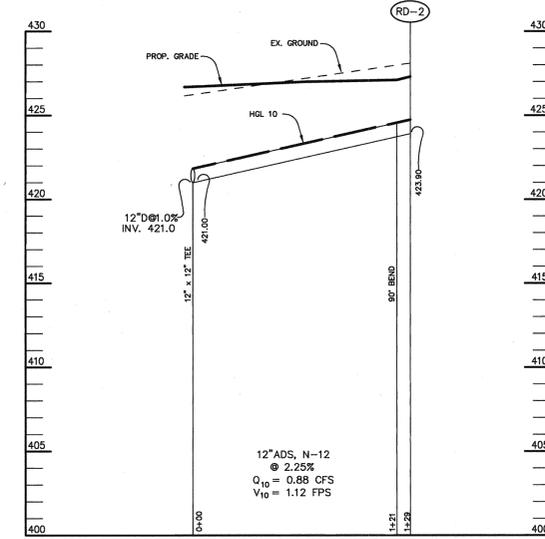
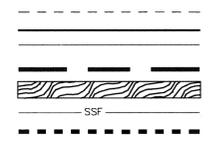
DECIDUOUS B&B TREE PLANTING DETAIL
 NOT TO SCALE

NOTE: NO DISTURBANCE IS ALLOWED ON THE ADJACENT PARCEL B.



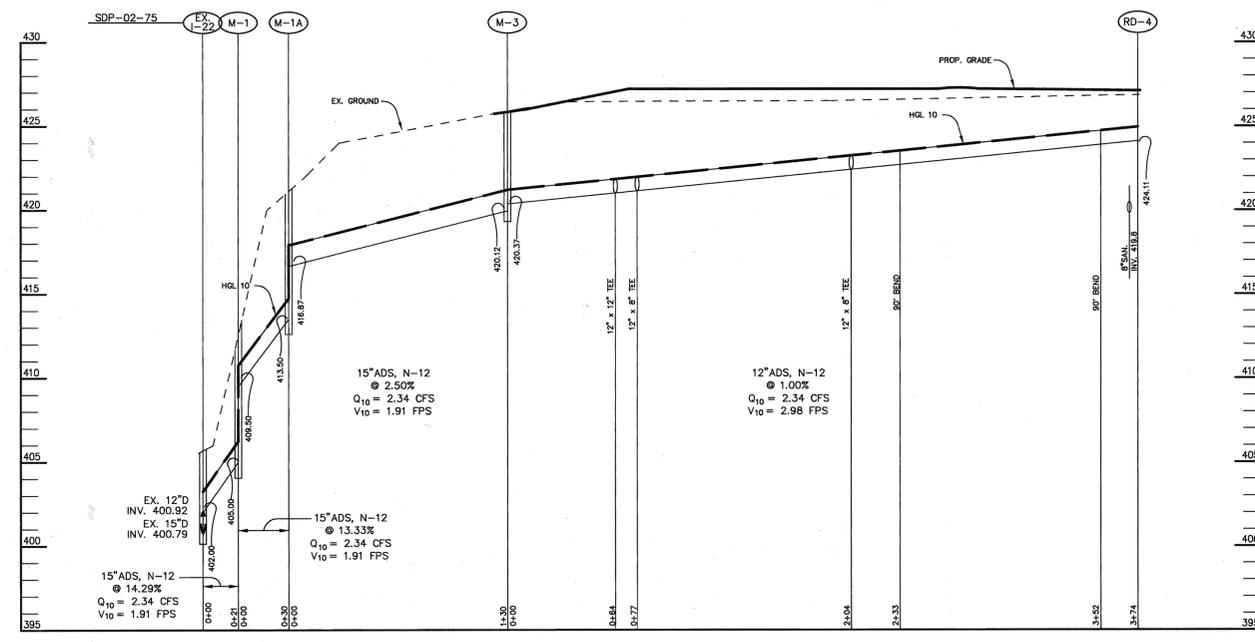
LEGEND

- EX. CONTOUR
- PROP. CONTOUR
- EX. TREELINE
- LIMIT OF DISTURBANCE
- EROSION CONTROL MATTING
- SUPER SILT FENCE
- DRAINAGE AREA LIMITS



STORM DRAIN PROFILE

SCALE:
HOR. - 1" = 50'
VERT. - 1" = 5'



STORM DRAIN PROFILE

SCALE:
HOR. - 1" = 50'
VERT. - 1" = 5'

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.
Steve Sam 12-13-05
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.
Aimee C. Remington 12-14-05
ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Jim Meyer 12/21/05
NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Roberts 12/21/05
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Joseph D. Jangle 1/3/06
DIRECTOR DATE
Steve Sam 12/23/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE
Cindy Hammett 1/3/06
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

OWNER: SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373
DEVELOPER: COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397

PROJECT: COVENANT BAPTIST CHURCH PHASE 1

AREA: TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE: GRADING AND SEDIMENT CONTROL PLAN & PROFILE

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
PHRA
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282
12-14-05
DATE
DESIGNED BY : ACR
DRAWN BY: DAM
PROJECT NO : 11942-1-0 SDP7.DWG
DATE : DECEMBER 14, 2005
SCALE : AS SHOWN
DRAWING NO. 7 OF 7



PROPERTY OF COVENANT BAPTIST CHURCH OF WEST COLUMBIA
 NON-BUILDABLE PARCEL B
 PLAT NO. 12545-12549
 ZONED RC-DEO
 HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM
 RECORDED ON EASEMENT PLAT NO. 12456
 EASEMENT # HO-96-04-PP

PERIMETER 4
 TYPE 'A' BUFFER - 187 LF

PERIMETER 3
 TYPE 'A' BUFFER - 260 LF

LEGEND	
PROPERTY LINE	
CONTOUR LINES	
EX. TREELINE	
EX. SHADE TREE (PROVIDED BY SDP-02-75)	
PROP. SHADE TREE	
LANDSCAPE REQUIREMENT	
PERIMETER LANDSCAPE EDGE LIMITS	

PLANT LIST					
SYMBOL	QTY.	SCIENTIFIC/COMMON NAME	SIZE	ROOT	REMARKS
AR	4	Acer rubrum 'October Glory' October Glory Red Maple	2.5"-3" cal.	B&B	Plant as shown
LS	3	Liquidambar styraciflua Sweet Gum	2.5"-3" cal.	B&B	Plant as shown

GENERAL 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 MUST BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF: \$2,100.00 (7 SHADE TREES @ \$300 = \$2,100).
- THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- ALL MATERIAL SELECTED SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK", LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
- NO SUBSTITUTIONS OR RELOCATION OF PLANTS MAY BE MADE WITHOUT PRIOR APPROVAL FROM THE DEPARTMENT OF PLANNING AND ZONING OF HOWARD COUNTY. ANY DEVIATION FROM THIS LANDSCAPE PLAN MAY RESULT IN A REQUIREMENT FOR SUBMITTAL OF AN OFFICIAL "REDLINE REVISION" TO THE SITE DEVELOPMENT PLAN(S) AND/OR DENIAL IN THE RELEASE OF LANDSCAPE SURETY.
- STORMWATER MANAGEMENT AREA LANDSCAPING REQUIREMENTS WERE SATISFIED UNDER SDP-02-75.
- PARKING LOT INTERNAL LANDSCAPING REQUIREMENTS WERE SATISFIED UNDER SDP-02-75.
- PERIMETER PARKING REQUIREMENTS OTHER THAN THAT SHOWN ON THIS PLAN WERE SATISFIED UNDER SDP-02-75. PERIMETER PARKING REQUIREMENTS SHOWN ON THIS PLAN WERE DEFERRED UNDER SDP-02-75 UNTIL SUCH TIME AS THIS BUILDING WAS DEVELOPED.

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.

Sho Ein 2-23-04
 SIGNATURE DATE

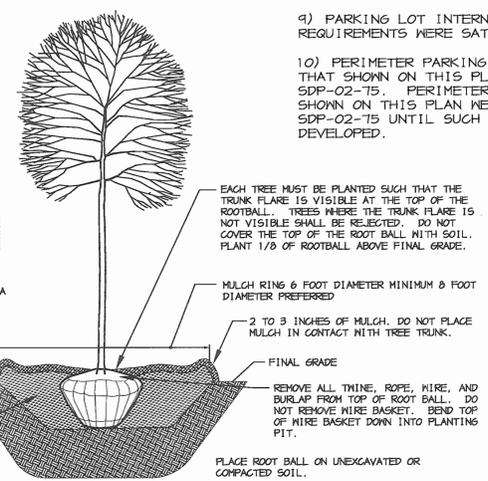
SCHEDULE A - PERIMETER LANDSCAPE EDGE		
PERIMETER	ADJACENT TO PERIMETER PROPERTIES	
	3"	4"
LANDSCAPE TYPE	A	A
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	260' ±	187' ±
CREDIT FOR EXISTING DRIVE AISLE (LINEAR FEET)	NO	NO
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO
LINEAR FEET REMAINING	260' ±	187' ±
CREDIT FOR WALL, FENCE, OR BERM (YES/NO/LINEAR FEET)	NO	NO
NUMBER OF PLANTS REQUIRED		
SHADE TREES	4	3
EVERGREEN TREES	0	0
SHRUBS	0	0
NUMBER OF PLANTS PROVIDED		
SHADE TREES	4	3
EVERGREEN TREES	0	0
SMALL FLOWERING TREES	0	0
SHRUBS	0	0

SCHEDULE A NOTES:

* PERIMETERS 3 AND 4 DELINEATED PER SOCCER ASSOCIATION OF COLUMBIA PLANS, SEE SDP-02-75, SHEETS 27, 24, AND 30.

NOTES:

- DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR THIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- STAKE TREES ONLY IF RECOMMENDED ON THE PLANT SCHEDULE OR UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. STAKING DETAIL SHOWN ONLY IF RECOMMENDED.
- DIG PLANTING PIT THREE AS WIDE AS THE DIAMETER OF THE TOP OF THE ROOT BALL WITH A MINIMUM PLANTING PIT DIAMETER OF 5'.



DECIDUOUS B&B TREE PLANTING DETAIL
 NOT TO SCALE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark A. Longol... 3/10/04
 DIRECTOR DATE

Chad Pennington 3/10/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

Cindy H. ... 3/15/04
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

12-06-05 | CHANGED SHEET NO. | REVISION

OWNER: SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373

DEVELOPER: COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397

PROJECT: COVENANT BAPTIST CHURCH PHASE 1

AREA: TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

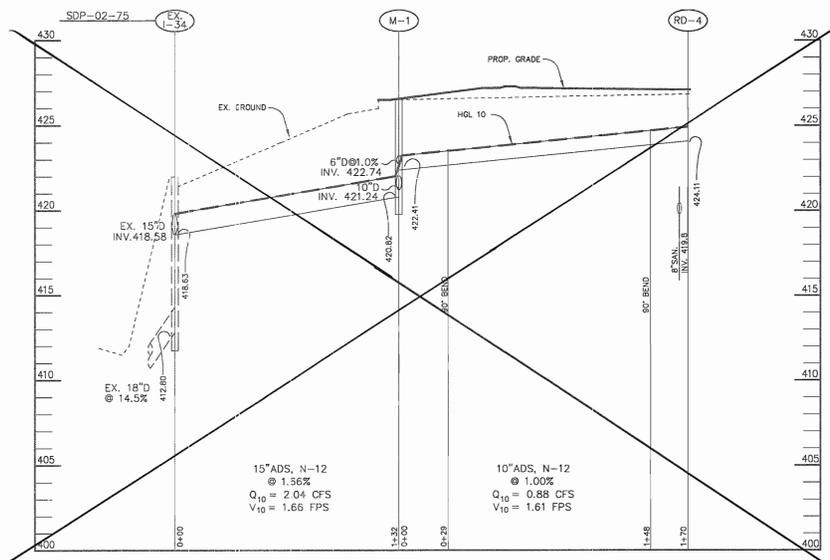
TITLE: LANDSCAPE PLAN

Patton Harris Rust & Associates, pc
 Engineers, Surveyors, Planners, Landscape Architects.
 8818 Centre Park Drive
 Columbia, MD 21045
 T 410.997.8900
 F 410.997.9282

2-23-04
 DATE

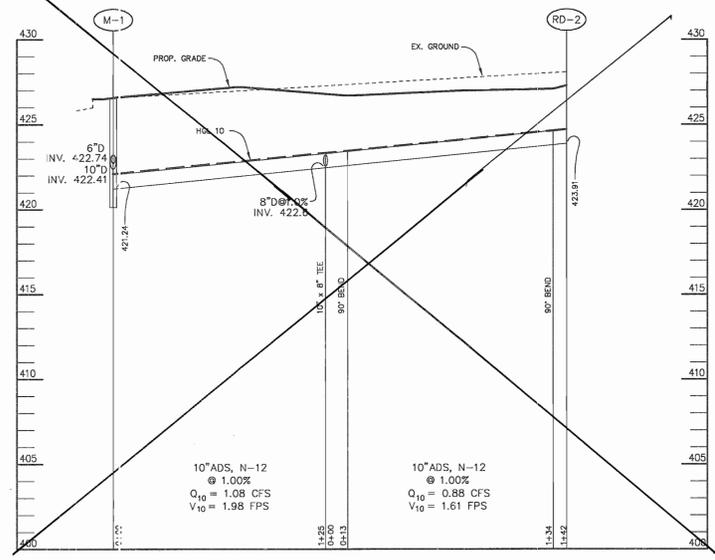
DESIGNED BY : G.T.H.
 DRAWN BY : G.T.H.
 PROJECT NO : 11942-1.0 SDP6.DWG
 DATE : FEBRUARY 23, 2004
 SCALE : 1" = 20'
 DRAWING NO. 6 OF 7

SCOTT R. WOLFORD #797



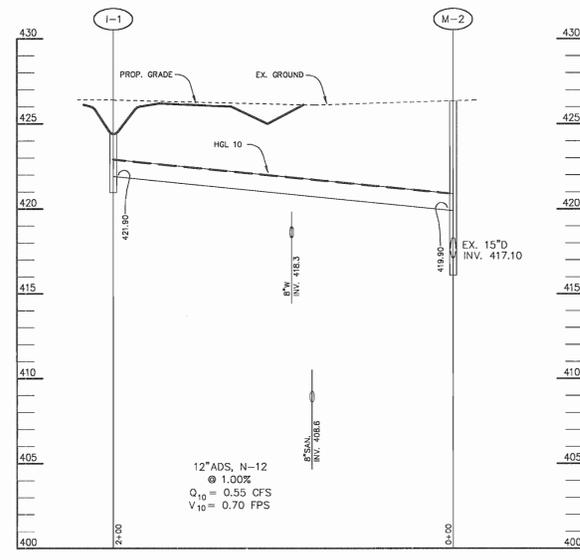
STORM DRAIN PROFILE

SCALE:
HOR. - 1"=50'
VERT. - 1"=5'



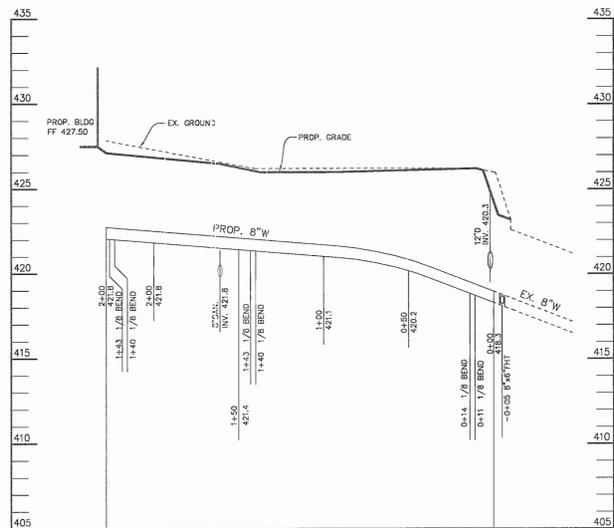
STORM DRAIN PROFILE

SCALE:
HOR. - 1"=50'
VERT. - 1"=5'



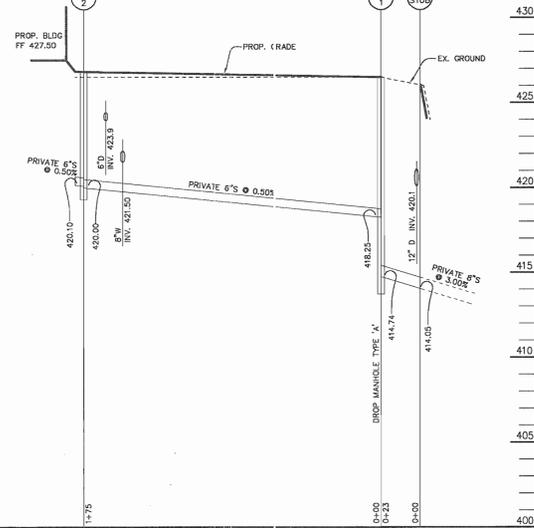
STORM DRAIN PROFILE

SCALE:
HOR. - 1"=50'
VERT. - 1"=5'



WATER PROFILE

SCALE:
HOR. - 1"=50'
VERT. - 1"=5'



SEWER PROFILE

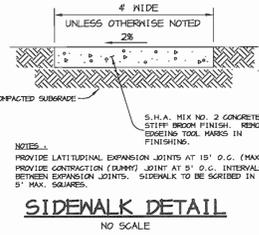
SCALE:
HOR. - 1"=50'
VERT. - 1"=5'

PIPE SCHEDULE

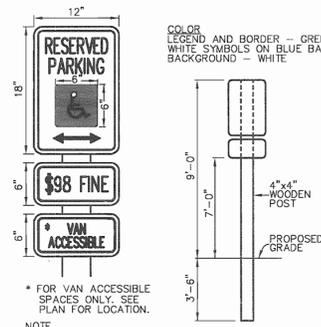
PIPE LENGTH	SIZE	TYPE
16'	8"	ADS, N-12
703'	12"	ADS, N-12
181'	15"	ADS, N-12

STRUCTURE SCHEDULE						
STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	15" DRAIN	N 575,861.98 E 1,348,664.30	-	421.90 (12")	424.4	15" ADS INLINE DR/IN
M-1	4'-0" DIA.	N 575,931.12 E 1,348,378.75	409.50 (15")	405.00 (15")	412.5	HOCO STD. DETAIL G-5.11
I-1A	4'-0" DIA.	N 575,939.73 E 1,348,407.43	416.87 (15")	413.50 (15")	421.2	HOCO STD. DETAIL G-5.11
I-2	4'-0" DIA.	N 575,828.05 E 1,348,861.5	419.90 (12")	EX. 417.10	426.2	HOCO STD. DETAIL G-5.11
M-3	4'-0" DIA.	N 575,919.39 E 1,348,935.95	420.37 (15")	420.12 (15")	425.8	HOCO STD. DETAIL G-5.11
SMH-1	DROP 'B' DIA.	N 575,663.84 E 1,348,782.98	420.50	408.62	426.5	HOCO STD. DETAIL G-5.11
SMH-2	4'-0" DIA.	N 575,690.76 E 1,348,609.56	421.47	421.37	426.9	HOCO STD. DETAIL G-5.11

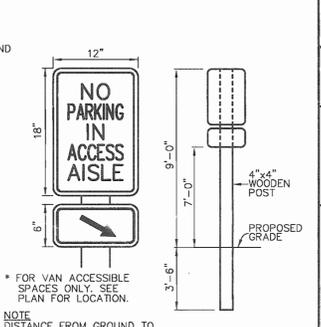
NOTES:
FOR END SECTIONS AND HEADWALLS THE LOCATION IS CENTER OF THROAT OPENING AT FACE OF STRUCTURE.
LOCATION OF INLETS AND MANHOLES IS AT CENTER OF TOP COVER; FOR "A" INLETS LOCATION IS GIVEN FOR CENTER OF THROAT OPENING AT FACE OF CURB;



SIDEWALK DETAIL
NO SCALE



HANDICAP SIGN DETAIL
NO SCALE



ACCESS AISLE SIGN
NO SCALE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Mark DeLoach 2/19/04
DIRECTOR DATE

Chris Rummel 3/5/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

Cindy Hamlett 2/15/04
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

12-06-05 | 1 REMOVED STORM DRAIN PROFILES, REV. STRUCTURE AND PIPE SCHEDULE AND CHANGED SHEET NO.

DATE NO. REVISION

OWNER: SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373

DEVELOPER: COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397

PROJECT: COVENANT BAPTIST CHURCH PHASE 1

AREA: TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: PROFILES AND SITE DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

2.23.04
DATE

DESIGNED BY : C.J.R.

DRAWN BY: DAM

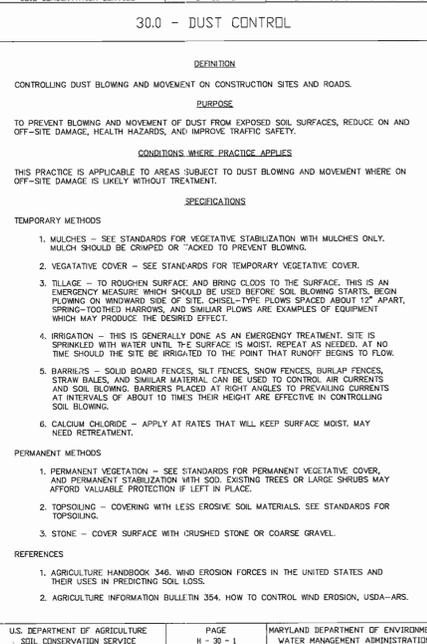
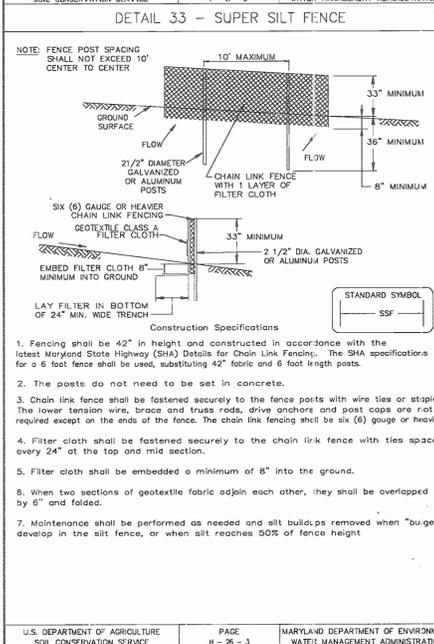
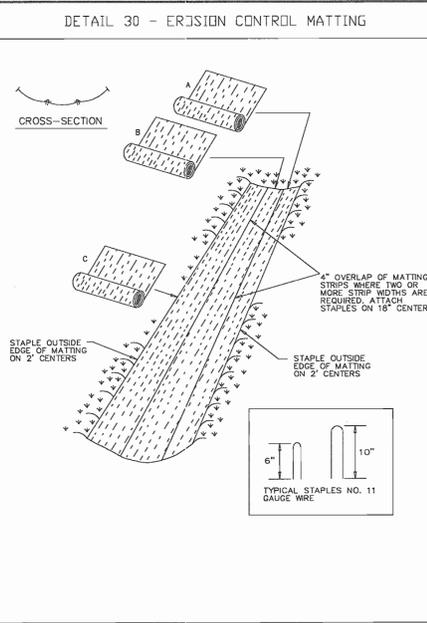
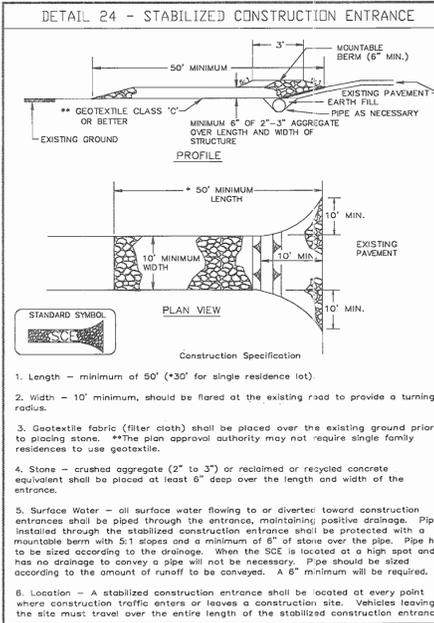
PROJECT NO : 11942-1.0
SDP5.DWG

DATE : FEBRUARY 23, 2004

SCALE : AS SHOWN

DRAWING NO. 5 OF 7

CHRISTOPHER J. REID #19949



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 26 - 3	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE H - 30 - 1	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	PAGE G - 28 - 2	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
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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/parent 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-SSS in cooperation with Maryland Agricultural Experimentation 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 clinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutcracker, 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. Lime 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 over 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 test 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 sod 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.

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.

- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

- When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

VI. Alternative for Permanent Seeding - instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:

- Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for site having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
 - Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
 - Composted sludge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/3 the normal lime application rate.

References: Guideline Specifications, Soil Preparation and Sodding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

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, SO2, 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	52.47 ACRES
AREA TO BE ROOFED OR PAVED	1.4 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.4 ACRES
TOTAL CUT	1.0 ACRES
TOTAL FILL	150 CU. YARDS
OFFSITE WASTE AREA LOCATION TO HAVE ACTIVE GRADING PERMIT.	0 CU. YARDS
- 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.
- 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 redisturbed where a short-term vegetative cover is needed.

Seeding Preparation: Loosen upper three inches of soil by raking, disking 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 1 thru November 15, seed with 2-1/2 bushels of seed per acre (annual ryegrass (3.2 lbs. per 1000 sq. ft.)). For the period May 1 thru August 15, seed with 3 lbs. per acre of weeping lovegrass (3.07 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 unwetted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas, on slopes, 8 ft. or higher, use 241 gal. per acre (6 gal. per 1000 sq. ft.) for anchoring.

Refer to the 1984 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.

Seeding Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- Preference - 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. Narrow or also into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (4 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 (28 lbs. per 1000 sq. ft.) before seeding. Narrow or also 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 unwetted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 gal. per acre (5 gal. per 1000 sq. ft.) of emulsified asphalt on flat areas, on slopes, 8 ft. or higher, use 241 gal. per acre (6 gal. per 1000 sq. ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, SUPER SILT FENCE. (3 DAYS)
- ROUGH GRADE FOR BUILDING PAD. CONTRACTOR TO PROVIDE DUST CONTROL AS NECESSARY.
- AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL STORM DRAINS, WATER, AND SEWER. (2 WEEKS)
- APPLY TOPSOIL AND STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS)
- PERFORM FINE GRADING, LANDSCAPING, LIGHTING AND SIDEWALKS. (1 WEEK)
- UPON REMOVAL OF COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL PERMISSIBLE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 DAYS)

BY THE DEVELOPER:

Steve Em 2.23.04
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.

Chris J. Rao 2.23.04
ENGINEER DATE

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

Jim M... 3/2/04
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Roberts 3/2/04
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Martha J. Leight 2/16/04
DIRECTOR DATE

Mike Br... 2/19/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION MK DATE

Candy Ham... 2/15/04
CHIEF, DIVISION OF LAND DEVELOPMENT W DATE

12-06-05 | CHANGED SHEET NO.

DATE	NO.	REVISION
OWNER	DEVELOPER	
SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 10B COLUMBIA, MD 21045 410-772-9373	COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397	

PROJECT: COVENANT BAPTIST CHURCH PHASE 1

AREA: TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE: SEDIMENT CONTROL NOTES AND DETAILS

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

2.23.04
DATE

DESIGNED BY: C.J.R.

DRAWN BY: DAM

PROJECT NO: 11942-1.0
SDP4.DWG

DATE: FEBRUARY 23, 2004

SCALE: AS SHOWN

DRAWING NO. 4 OF 7

CHRISTOPHER J. REID #19949

SDP-04-46

PROPERTY OF
COVENANT BAPTIST CHURCH
OF WEST COLUMBIA
NON-BUILDABLE PARCEL B
PLAT NO. 12545-12549
ZONED RC-DEO
HOWARD COUNTY
AGRICULTURAL LAND
PRESERVATION PROGRAM
RECORDED ON EASEMENT
PLAT NO. 12455
EASEMENT # HO-96-04-PP

NOTE: NO-DISTURBANCE IS ALLOWED ON THE
ADJACENT PARCEL B.

NOTE: RUNOFF DRAINS TO BASIN #1
CONSTRUCTED UNDER SDP-02-75. BASIN TO
REMAIN OPERATIONAL DURING CONSTRUCTION.

130 LF - 15" ADS, N-12

PROP. CHURCH
F.F. ELEV. 427.5
S.F. ELEV. 439.0

COVERED PORCH

LEGEND

- EX. CONTOUR
- PROP. CONTOUR
- EX. TREELINE
- LIMIT OF DISTURBANCE
- EROSION CONTROL MATTING
- SUPER SILT FENCE
- DRAINAGE AREA LIMITS

SOILS CHART			
MAP SYMBOL	NAME	EROSION HAZARD	SLOPE (%)
EKB2	ELOAK SILT LOAM	MODERATE	3-8%
GIC2	GLENELG LOAM	MODERATE	8-15%
GIB2	GLENELG LOAM	MODERATE	3-8%

DRAINAGE DATA

INLET NOS.	AREA IN ACRES	'C' FACTOR	PERCENT IMPERVIOUS
I-1	0.34	0.19	0
RD-1	0.12	0.86	100
RD-2	0.04	0.86	100
RD-3	0.04	0.86	100
RD-4	0.12	0.86	100

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.

Steve Egan
DEVELOPER
2-23-04
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.

Chad J. Roe
ENGINEER
2-23-04
DATE

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

Jim Myers
NATURAL RESOURCE CONSERVATION SERVICE
3/2/04
DATE

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

John R. Robertson
HOWARD SOIL CONSERVATION DISTRICT
3/2/04
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Wanda L. Lough
DIRECTOR
3/16/04
DATE

Mike
CHIEF, DEVELOPMENT ENGINEERING DIVISION
3/17/04
DATE

Chris Hanrahan
CHIEF, DIVISION OF LAND DEVELOPMENT
3/15/04
DATE

12-00-05 | REV. STORM DRAIN LAYOUT CHANGED SHEET NO.

DATE	NO.	REVISION
		DEVELOPER

OWNER SOCCER ASSOCIATION OF COLUMBIA, INC. 8980-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373	DEVELOPER COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397
PROJECT COVENANT BAPTIST CHURCH PHASE 1	
AREA TAX MAP 30 BLOCK 1 ZONED RC-DEO COVENANT BAPTIST CHURCH OF WEST COLUMBIA PARCEL A PLATS 15652-15657 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
TITLE GRADING AND SEDIMENT CONTROL PLAN	

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

2-23-04 DATE	DESIGNED BY: C.J.R.
	DRAWN BY: DAM
	PROJECT NO: 11942-1.0 SDP3.DWG
	DATE: FEBRUARY 23, 2004
	SCALE: 1" = 20'
CHRISTOPHER J. REID #19949	DRAWING NO. 3 OF 7

P:\project\11942-1.0-1-0\Engr\Plans\SDP3.dwg, Layout1, 02/20/2004 01:47:25 PM, HP7500(38).pc3, Arch D - 24 x 36 in. (landscape), 1:1

SHEET INDEX	
NO	DESCRIPTION
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING AND SEDIMENT CONTROL PLAN
4	SEDIMENT CONTROL NOTES AND DETAILS
5	PROFILES AND SITE DETAILS
6	LANDSCAPE PLAN
7	STORM DRAIN PLAN AND PROFILE

SITE DEVELOPMENT PLAN

COVENANT BAPTIST CHURCH

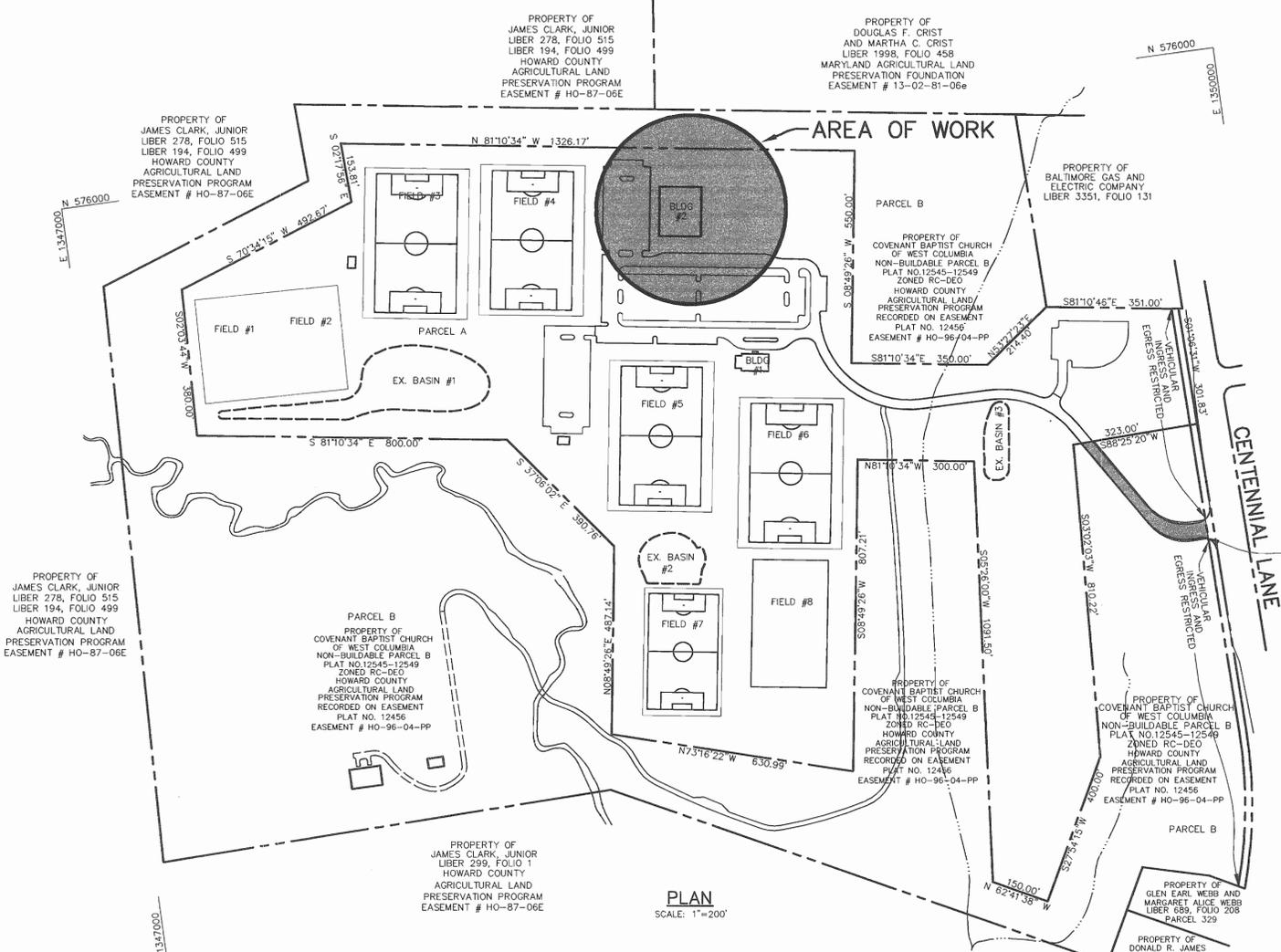
PHASE 1

2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

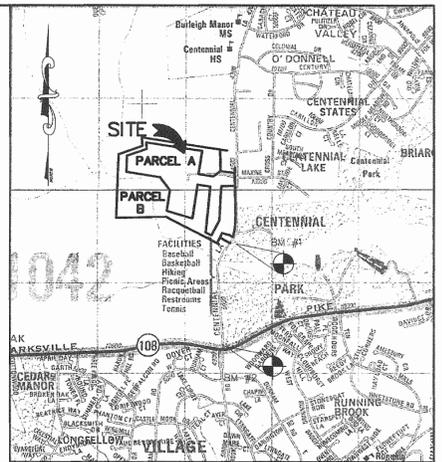
GENERAL NOTES

- 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 AERIAL SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY FISHER COLLINS & CARTER DATED MARCH, 2000.
- 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. 30AA AND 30DC WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. 24-4040-D
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATUXENT CONTRACT NO. 24-4040-D
- THE STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED UNDER SDP-02-75, VIA GRASS SWALES, AND THREE (3) STORMWATER MANAGEMENT PONDS. THE RECHARGE VOLUME WILL BE PROVIDED VIA THE GRASS CHANNEL CREDIT. WATER QUALITY VOLUME AND CHANNEL PROTECTION VOLUME WILL BE PROVIDED IN ONE (1) MICROPOOLED EXTENDED DETENTION POND AND TWO (2) POCKET PONDS. THE FACILITIES WILL BE PRIVATELY MAINTAINED.
- 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 SHOWN FROM PLATS 12545-49, BY FCC, INC.
- A TRAFFIC STUDY HAS BEEN PREPARED BY THE TRAFFIC GROUP INC DATED
- A GEOTECHNICAL STUDY HAS BEEN PREPARED BY ECS, LTD DATED
- THE BOUNDARY FOR THIS PROJECT IS PER RECORD PLATS 12545-49 BY FCC, INC.
- SUBJECT PROPERTY ZONED RC-DEO 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: F-97-38, WP-97-60, PLAT OF EASEMENT 12456, BA-01-20E, SDP-02-75, BA-01-66C.
- 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 INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE 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 T100.
- THE PAVEMENT DETAILS SHOWN FOR THIS SITE REFLECT THE HOWARD COUNTY STANDARD PAVEMENT SECTIONS AND ARE NOT BASED ON SITE SPECIFIC CONDITIONS. PRIOR TO PAVING THE FINAL PAVEMENT SECTIONS SHALL BE DETERMINED BY A QUALIFIED GEOTECHNICAL ENGINEER BASED ON IN-SITU TESTING OF THE FINISHED SUBGRADE.
- ALL LIGHTING IS 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.
- THIS PROJECT COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION THROUGH THE CREATION OF 22.65 ACRES OF FOREST RETENTION EASEMENTS ON PARCELS A AND B, COVENANT BAPTIST CHURCH, UNDER SDP-02-75.
- THE WETLAND DELINEATION IS SHOWN FROM PLATS 12545-12549 BY FCC, INC.
- A PERMIT TO DISTURB NON-TIDAL WETLANDS WAS SUBMITTED TO MD DEPT OF ENVIRONMENT: PERMIT TRACKING NO. 200261257. BOTH AREAS OF DISTURBANCE HAVE BEEN DEEMED "NECESSARY" BY THE DEPARTMENT OF PLANNING AND ZONING.
- THIS PLAN IS SUBJECT TO THE FIFTH EDITION OF THE SUBDIVISION REGULATIONS, AND THE ZONING REGULATIONS AS AMENDED BY COUNCIL BILL NO. 50-2001.
- BA-01-66C WAS GRANTED ON JUNE 25, 2002 BY THE DEPARTMENT OF PLANNING AND ZONING FOR A CONDITIONAL USE FOR THE NEW RELIGIOUS FACILITY WITH THE FOLLOWING CONDITIONS:
 A. THE CONDITIONAL USE SHALL BE CONDUCTED IN CONFORMANCE WITH AND SHALL APPLY ONLY TO THE PROPOSED RELIGIOUS FACILITY AS DESCRIBED IN THE PETITION; AS DESCRIBED IN THE FINDINGS OF FACTS AND CONCLUSIONS OF LAW OF THE FINAL DECISION AND ORDER; AS DEPICTED ON THE CONDITIONAL USE PLAN FOR THE "COVENANT BAPTIST CHURCH" SUBMITTED ON NOVEMBER 6, 2001; AND AS MAY BE REVISED BY THE FOLLOWING CONDITIONS OR BY THE BOARD, AND NOT TO ANY OTHER ACTIVITIES, USES, OR STRUCTURES ON THE PROPERTY.
 B. THE PROPOSED CENTENNIAL LANE ENTRANCE SHALL BE REVISED TO COMPLY WITH THE BA-01-20E PLAN AND INCLUDE BOTH AN ACCELERATION AND DECELERATION LANE, OR AN ALTERATION TO THE BA-01-20E PLAN SHALL BE APPROVED TO ELIMINATE THE ACCELERATION LANE AND INSTEAD USE THIS LANE FOR A THROUGH-LANE FOR SOUTHBOUND TRAFFIC.
 C. THE EXISTING VEGETATION ON THE PROPERTY TO THE NORTH AND SOUTH OF THE EXISTING DRIVEWAY SHALL BE RETAINED TO THE GREATEST EXTENT POSSIBLE.
 D. THE REMOVAL OF VEGETATION FOR THE DRIVEWAY ACROSS PARCEL B SHALL BE KEPT TO AN ABSOLUTE MINIMUM, AND THE PETITIONER IS HEREBY ADVISED THAT EVEN WITH THE CONDITIONAL USE GRANT, THIS DEVELOPMENT WILL STILL NEED TO SUCCESSFULLY JUSTIFY THE DISTURBANCE IN THE WETLANDS AND BUFFERS UNDER THE "NECESSARY DISTURBANCE" PROVISIONS OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS FOR THE SITE DEVELOPMENT PLAN PROCESS. THE PETITIONER SHALL SPECIFY WHETHER THERE WILL BE AN ACCESS EASEMENT ESTABLISHED ON PARCEL B FOR THIS PORTION OF THE DRIVEWAY, AND THE PETITIONER SHALL ALSO INCLUDE THIS PORTION OF PARCEL B WITHIN THE CONDITIONAL USE BOUNDARIES.
- NO CLEARING, GRADING, OR CONSTRUCTION IS PERMITTED WITHIN THE REQUIRED WETLANDS OR THEIR BUFFERS AND FOREST CONSERVATION EASEMENTS.
- IF THE SOCCER FACILITY IS NOT CONSTRUCTED IN ACCORDANCE WITH SDP-02-75, THE RELIGIOUS FACILITY WILL NOT RECEIVE ITS FINAL USE AND OCCUPANCY PERMIT UNTIL ADEQUATE PARKING, STORMWATER MANAGEMENT, THE SHARED DRIVEWAY AND THE ENTRANCE ONTO CENTENNIAL LANE HAVE BEEN PROVIDED.
- LANDSCAPE SURETY WILL BE PROVIDED WITH THE GRADING PERMIT IN THE AMOUNT OF \$2,100.00.



PLAN
SCALE: 1" = 20'

ELEVATION
SCALE: 1" = 20'



VICINITY MAP
SCALE: 1" = 2000'

SITE TABULATION

COVENANT BAPTIST CHURCH OF WEST COLUMBIA - PARCEL A

1. GROSS AREA OF TRACT	52.47
2. ZONING OF TRACT	RC-DEO
3. AREA OF FLOODPLAIN	1.16 AC
4. NET AREA	51.31 AC
5. LIMIT OF DISTURBANCE	1.20 AC
6. PROPOSED USE	RELIGIOUS FACILITY (SEE BA-01-66C)
7. BUILDING FLOOR AREA:	
FIRST FLOOR	13824 SF
SECOND FLOOR	9184 SF
8. PARKING AS REQUIRED UNDER BA-01-20E:	
SEE PARKING STUDY DATED APRIL 18, 2002	
9. CHURCH PARKING REQUIRED:	
1 SPACE PER 3 SEATS IN SANCTUARY:	
TOTAL SEATS THIS PHASE = 382	
PARKING REQUIRED = 382/3 = 128 SPACES	
10. CHURCH PARKING PROVIDED:	
SDP-02-75 PARKING LOT C = 311 SPACES (INCL 5 HC)	

SHARED PARKING AGREEMENT BETWEEN SOCCER CLUB AND COVENANT BAPTIST CHURCH IS RECORDED UNDER L. 7983, F. 643, DATED DECEMBER 6, 2003.

BENCHMARKS

BENCHMARK #1
HOWARD COUNTY SURVEY CONTROL STATION: 30AA
N 573,670.208 E 1,349,816.541
ELEVATION: 384.632
CONCRETE MONUMENT ON EAST SIDE OF CENTENNIAL LANE 25' WEST OF CENTENNIAL PARK TENNIS COURTS.

BENCHMARK #2
HOWARD COUNTY SURVEY CONTROL STATION: 300C
N 571,937.689 E 1,349,597.163
ELEVATION: 422.112
CONCRETE MONUMENT WITHIN MEDIAN OF CENTENNIAL LANE 500' NORTH OF ROUTE 108.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>Mark D. Leight</i>	<i>2/16/04</i>
DIRECTOR	DATE
<i>Michael J. ...</i>	<i>2/16/04</i>
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Cathy ...</i>	<i>2/15/04</i>
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

12-06-05 REV. SHEET INDEX & CHANGED SHEET NO.	
DATE	NO.
OWNER	DEVELOPER
SOCCER ASSOCIATION OF COLUMBIA, INC. 8990-D ROUTE 108 COLUMBIA, MD 21045 410-772-9373	COVENANT BAPTIST CHURCH OF WEST COLUMBIA 6851 OAK HALL LANE SUITE 100 COLUMBIA, MD 21045 301-688-5397

PROJECT: COVENANT BAPTIST CHURCH PHASE 1	
AREA	TAX MAP 30 BLOCK 1 ZONED RC-DEO
	COVENANT BAPTIST CHURCH OF WEST COLUMBIA
	PARCEL A PLATS 15652-15657
	2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE SHEET

Patton Harris Rust & Associates, pc
Engineers, Surveyors, Planners, Landscape Architects.
8818 Centre Park Drive
Columbia, MD 21045
T 410.997.8900
F 410.997.9282

DATE	DESIGNED BY :
2.2.04	C.J.R.
DRAWN BY :	DAM
PROJECT NO :	11942-1.0
	SDP1.DWG
DATE :	FEBRUARY 23, 2004
SCALE :	AS SHOWN
DRAWING NO. :	1 OF 7

ADDRESS CHART	
SITE NUMBER	STREET ADDRESS
BLDG #2	4560 CENTENNIAL LANE

SUBDIVISION NAME:		SECT./AREA:		PARCEL:	
COVENANT BAPTIST CHURCH OF WEST COLUMBIA		A		A	
PLAT:	BLOCK:	ZONE:	TAX MAP NO.:	ELECT. DIST.:	CENSUS TRACT:
15652-15657	1	RC-DEO	30		6023.01
WATER CODE:	SEWER CODE:				
J-06	5720200				

CHRISTOPHER J. REID #19949