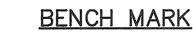
SITE DEVELOPMENT PLAN ST. STEPHENS ADULT DAYCARE

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

> MEADOWRIDGE BUSINESS PARK PARCEL A-1 70MED W-1 TAX MAP 37



HO. CO. SURVEY CONTROL STATION: 43B2 N 551,655.008 E 1,378,176.941 ELEVATION: 209.665' LOOK FOR THE C&P MANHOLE IN FRONT OF THE BASS MOTEL MANHOLE IS IN THE ROAD (ROUTE 1) GO 15.55' SOUTHEAST, FROM THE MANHOLE TO THE MEDIAN.

HO. CO. SURVEY CONTROL STATION: 37IA N 553,315.16 E 1,379,982.12 ELEVATION: 195.728' 247' NORTH FROM & ENTRANCE TO THE MAIN ROAD TO MEADOWRIDGE MEMORIAL PARK. 1.5' FROM THE FACE OF CURB.

SITE DATA

SITE ZONING:

M-T CE 1

GROSS SITE AREA: DISTURBED AREA:

0.43 ACRES (19,000±SF) 0.43 ACRES

EXISTING USE: PROPOSED USE: BUILDING COVERAGE:

VACANT 1 CHURCHIO

10 SPACES (1,000 SF ASSEMBLY AREA) PARKING REQUIRED @ 10 SP/1000 SF 6F PROPOSED PARKING: ASSEMBLY AREA

15 SPACES INCLUDING 1 HC SPACE

JU (ONE-STORY)

FOR REVISION #1 ONLY

CHIEF, DIVISION OF LAND DEVELOPMENT 8.6.19 1 CHANGE USE DATE NO. REVISION MEADOWRIDGE LOTS 4546LLC P.O. BOX 417 ELLICOTT CITY, MARYLAND 21041-0417 410-465-4244 **DEVELOPER:** ST. STEPHENS ECONOMIC DEVELOPMENT CORPORATION 7741 MAYFIELD AVENUE ELKRIDGE, MD 21075 ST. STEPHENS ADULT DAYCARE WASHINGTON MANOR PARK ZONED M-1 LOT 53

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND

SITE

VICINITY MAP

11.22.02

Columbia, MD 21045 T 410.997.8900

TAX MAP 43, BLOCK 5

1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE SHEET

Patton Harris Rust & Associates, pc Engineers. Surveyors. Planners. Landscape Architects.

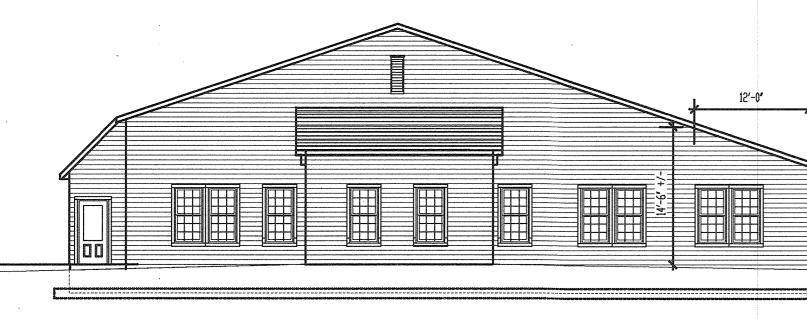
DESIGNED BY : CJR DRAWN BY: PROJECT NO : 01295/ SDP1.DWG DATE: NOVEMBER 25, 2002 SCALE : 1" = 20'

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
- 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.
- 5. ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
- 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. 43B6 AND 43B2 WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. 511-W
- 8. SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATAPSCO CONTRACT NO. 705-S
- 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
- 10. A 100-YEAR FLOODPLAIN STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 11. THERE ARE NO WETLANDS AFFECTING THIS PROJECT.
- 12. AN APFO TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY LEE CUNNINGHAM & ASSOCIATES DATED JANUARY, 2002.
- 13. A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 14. THE BOUNDARY FOR THIS PROJECT IS PER SURVEY BY PHR&A PREFORMED IN NOVEMBER, 2001
- 15. SUBJECT PROPERTY ZONED M-1 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- 16. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- 17. SEE DEPARTMENT OF PLANNING AND ZONING FILE NOs: F-02-107
- 18. THE DEVELOPMENT ENGINEERING DIVISION APPROVED A WAIVER OF DESIGN MANUAL VOLUME III, SECTION 2.6.4 ON JUNE 20, 2002, AND A WAIVER ON DESIGN MANUAL VOLUME I, CHECKLIST ITEM VII.f.3.(c)(3) WAS APPROVED ON JUNE 20, 2002.
- 19. THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- 20. 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.
- 22. NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6"
- OF FINISHED GRADE.
- 23. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS. 24. ALL PIPE ELEVATIONS SHOWN ARE INVERT CHEVATIONS.
- 25. STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- 26. PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO TI80.
- 28. THE EXISTING TOPOGRAPHY IS TAKEN FROM SURVEY BY PHR&A DATED NOVEMBER, 2001 WITH MAXIMUM TWO FOOT CONTOUR INTERVALS.
- 29. A GEOTECHNICAL STUDY WAS PERFORMED BY ECS LTD DATED DECEMBER 26, 2001.

BRONZE FIBERGLASS POLE USING 12' ARM, ARM RADIAL TO FILLET.

- STORMWATER MANAGEMENT IS PROVIDED VIA ROOFTOP AND NON. ROOFTOP RUNOFF CREDITS, AND A PRIVATE BIORETENSION FACILITY AND DRY SWALE.
- THERE ARE NO CEMETERIES OR BURIAL GROUNDS ON THE SITE TO THE BEST OF OUR KNOWLEDGE.
- THIS PROJECT IS EXEMPT FROM THE HOWARD COUNTY FOREST CONSERVATION REQUIREMENTS BECAUSE THE PROJECT SIZE IS LESS THAN 40,000 SF. BASED ON SECTION 16. 1202 (b) (I) (i) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS.
- THIS PLAN SHALL BE SUBJECT TO COMPLIANCE WITH THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION
- REGULATIONS AND THE AMENDED ZONING REGULATIONS IN ACCORDANCE WITH COUNCIL BILL 50-2001. STREET LIGHT TO BE 250 (SAG) WATT HPS VAPOR PENDANT FIXTURE (CUTOFF) MOUNTED AT 30' ON A



PROPOSED ONE-STORY ADULT DAYCARE FACILITY ELEVATION

PROPOSED ONE-STORY ADULT DAYCARE WASHINGTON MANOR PARK PLAT BOOK 5, PAGE 13 WASHINGTON MANOR PARK ZONE H-1 PLAT BOOK 5, PAGE 13 TAX MAP 37 ZOME Ĥ-1 RESIDENTIAL USE TAX MAP 37 RESIDENTIAL USE WASHINGTON MANOR PARK PLAT # 15617 ZONE M-1 TAX MAP 37

ROOSEVELT BOULEVARD

(HOWARD COUNTY PUBLIC ROAD)

ADDRESS CHART **ADDRESS**

7320 ROOSEVELT BOULEVARD ST. STEPHENS ADULT DAYCARE 375 6012.02 2153000

CHRISTOPHER J. REID #19949

DRAWING NO. 1 OF 6

TRAFFIC CONTROL SIGNAGE LEGEND

▶ SIGN

PROP.

● ● TEMPORARY BARRIER

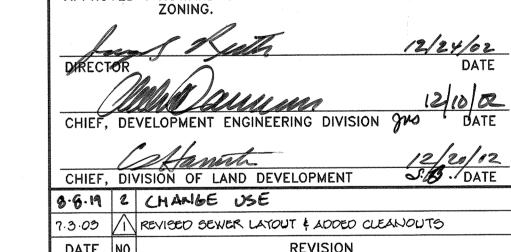
DEVELOPER WILL POST A DEPOSIT TO HOWARD COUNTY, SO THAT HOWARD COUNTY

- 1. STREET LIGHT TO BE 250 (SAG) WATT HPS VAPOR PENDANT FIXTURE (CUTOFF) MOUNTED AT 30' ON A BRONZE FIBERGLASS POLE USING
- 2. ALL EXTERIOR LIGHTING SHALL CONFORM TO ZONING REGULATIONS
- 4. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS

- 8. UNDERDRAIN FOR BIORETENTION SHALL BE 4" SHEDULE 40 PVC PIPE WITH

THE DISCONNECTION OF ROOFTOP AND NON ROOFTOP RUNOFF CREDITS WAS USED TO

THE BIORETENTION FACILITY WILL MEET THE REMAINAING WQV FOR DRAINAGE AREAS 1, 3, AND 5.



MEADOWRIDGE LOTS 4546LLC

DEVELOPER: ST. STEPHENS ECONOMIC

DEVELOPMENT CORPORATION 7741 MAYFIELD AVENUE

ST. STEPHENS ADULT DAYCARE

ZONED M-1 LOT 53 TAX MAP 43, BLOCK 5 1st ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

8818 Centre Park Drive Columbia, MD 21045

CHRISTOPHER J. REID #19949

DESIGNED BY : CJR DRAWN BY:

PROJECT NO : 01295/ SDP2.DWG DATE: NOVEMBER 25, 2002

DRAWING NO. 2 OF 6

SDP-02-80

			//minimum.co/////	
SCHEDULE A - PERIMETER LANDSCAPE EDGE				
			ADJACENT TO ROADWAYS	
PERIMETER	2	3	4	1
LANDSCAPE TYPE	C	Α	C	E
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	±189'	‡ 44 ,	±190'	±99 '
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO
CREDIT FOR WALL, FENCE, BERM OR DRIVE AISLE (YES/NO/LINEAR FEET)	NO	NO	NO	YES ±26'
LINEAR FEET REMAINING	±189'	±99'	±190'	±73'
NUMBER OF PLANTS REQUIRED SHADE TREES EVERGREEN TREES SHRUBS	501	2 -	510	2 - 18
NUMBER OF PLANTS PROVIDED SHADE TREES EVERGREEN TREES SMALL FLOWERING TREES SHRUBS	65 i 0	1 2 -	3724	2 - 18

PERIMETER 1:

TYPE

SUBSTITUTION NOTES: PERIMETER 2: (1) SHADE TREES AND (30) SHRUBS WERE SUBSTITUTED FOR (5) EVERGREEN TREES. PERIMETER 3: (2) FLOWERING TREE WERE SUBSTITUTED FOR (1) SHADE TREE.

PERIMETER 4: (2) FLOWERING TREES AND (40) SHRUBS WERE SUBSTITUTED FOR (2) SHADE TREES AND (3) EVERGREEN TREES.

SCHEDULE B - PARKING LOT INTERNAL LANDSC	APING
PARKING LOT	l I
NUMBER OF PARKING SPACES	15
NUMBER OF SHADE TREES REQUIRED (1/20 SPACES)	1
NUMBER OF TREES PROVIDED SHADE TREES OTHER TREES (2:1 SUBSTITUTION)	1
NUMBER OF ISLANDS PROVIDED	1

I. SEE PLANTING SPECIFICATIONS FOR REPARATION OF PLANTING BED.

SYMBOL QTY

A5

AR

QP

10

PN

PK

AG

CA

EΑ

ND

of the Contractor.

graded to final grade.

فالميشانية فالمتحافظ فوالهابات بساوهمية والمساكرات المحبوبية فالمتحارث فللمتحاث

22

PLANTING SPECIFICATIONS

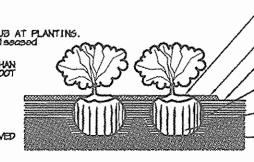
snow fence at the drip line, see detail.

composted, double-shredded hardwood mulch throughout.

after planting with 1/4 to 1/2 cup lime each.

daily and as necessary to avoid dessication.

backfill, see tree planting detail.



DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. PLANT 1/8 OF ROOTBALL ABOVE FINAL GRADE. -2 to 3 inches of Malch, do not place Mulch in contact with shrub trunk or branches

TAMP SOIL AROUND BALL BASE FIRML'

SIZE

21/2" - 3" Cal.

21/2" ~ 3" Cal.

2½" - 3" Cal.

21/2" - 3" Cal.

6' - 8' Ht.

1½"-2" Ht.

1½"-2" Ht.

24" - 30" Ht.

18" - 24" 50

24" - 30" Ht.

18" - 24" 50.

18" - 24" 50.

All plant material, unless otherwise specified, that is not nursery grown, uniformly branched, does not have a vigorous root system, and does not conform to the most recent edition of the American Association of Nurserymen (AAN)

Standards will be rejected. Plant material that is not healthy, vigorous, free from defects, decay, disfiguring

roots, sunscald injuries, abrasions of the bank, plant disease, insect pest eggs, borers and all forms of insect

All B & B plants shall be freshly dug; no healed-in plants or plants from cold storage will be accepted.

of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architects.

Infestations or objectionable disfigurements will be rejected. Plant material that is weak on which has been cut

3. Unless otherwise specified, all general conditions, planting operations, details and planting specifications

shall conform to the most recent edition of the "Landscape Specification Guidelines by the Landscape Contractors

4. Contractor shall quarantee all plant material for a period of one year after date of acceptance in accordance

with the appropriate section on the Landscape Guidelines. Contractor's attention is directed to the maintenance

5. Contractor shall be responsible for notifying all relevant and appropriate utility companies, utility

8. Contractor to regrade, fine grade, sod, hydroseed and straw mulch all areas disturbed by their work.

requirements found within the one year specifications including watering and replacement of specified plant material.

contractors, and "Miss Utility" a minimum of 48 hours prior to the beginning of any work. Contractor may make minor

adjustments in spacing and location of plant material to avoid conflicts with utilities. Major changes will require

6. Protection of existing vegetation to remain shall be accomplished via the temporary installation of 4% foot high

7. Contractor is responsible for installing all material in the proper planting season for each plant type. All

planting is to be completed within growing season of completion of site construction. Do not plant Pinus strobus or

9. Bid shall be based on actual site conditions. No extra payment shall be made for work arising from actual site

discrepancies on the plan exist between the symbols and the callout leader, the number of symbols take precedence.

10. Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between

otherwise indicated on plans. (See Specification 13). Beds to be mulched with minimum 2" and maximum 3" of

quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence. Where

11. All shrubs and groundcover areas shall be planted in continuous planting beds, prepared as specified, unless

13. Bed preparation shall be as follows: Till into a minimum depth of 6" I yard of Compro or Leafgro per 200 SF of planting bed, and I yard of topsoil per 100 SF of bed. Add 3 lbs of standard 5-10-5 fertilizer per cubic yard of

planting mix and till. Enicaceous plants (Azaleas, Rhododendrons, etc.): top dress after planting with Iron sulfate

or comparable product according to package directions. Taxus baccata 'Repandens' (English weeping yews): Top dress

14. Planting mix: For trees not in a prepared bed, mix 50% Compro or Leafgro with 50% soil from tree hole to use as

15. Weed 4 insect control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on

areas to be planted with a ground cover, be sure to carefully check the chemical used to assure its adaptability to

the specific groundcover to be treated. Maintain the mulch weed-free for the extent of the warranty period. Under

16. Water: All plant material planted shall be watered thoroughly the day of planting. All plant material not yet

18. All areas within contract limits disturbed during or prior to construction not designated to receive plants and

planted shall be properly protected from drying out until planted. At a minimum, water unplanted plant material

17. Pruning: Do not heavily prune trees and shrubs at planting. Prune only broken, dead, or diseased branches.

the label. For tree planting, apply a pre-emergent on top of soil and root ball before mulching. Caution: For

XCupressacyparis legiandii between November 15 and March 15. Landscape plants are not to be installed before site is

the approval of the landscape architect. Damage to existing structure and utilities shall be repaired at the expense

back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will be rejected.

Association of MD, DC, & VA", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association

1. Plants, related material, and operations shall meet the detailed description, as given on the plans and as described herein. Where discrepancies exist between Standards & Guldelines referenced within these specifications

ROOT

B 4 B

B 4 B

B & B

B # B

Cont.

Cont.

REMARKS

Full Crown

Full Crown

Full Crown

"uli Crown

Full Form

Central Leader

full Crown

4'0.0

4' O.C.

PLANT LIST

SCIENTIFIC/

COMMON NAME

Green Mountain Sugar Maple

Acer rubrum 'October Glory

October Glory Red Maple

Shademaster Locust

Quercu phelios

American Holl

Austrian Pine

Minterberru

Gulf Stream Nandina

Pinus niara

Willow Oak

Gleditsia tri. inermis 'Shademaster

_agerstromia indica 'Tuscarora'

Prunus serrulata 'Kwanzan

Clethra alnifolia 'Hummingbird'

llex verticilata 'Red Sprite'

Nandina domestica 'Gulf Stream'

and the Howard County Landscape Manual, the latter takes precedence.

conditions differing from those indicated on drawings and specifications.

12. Positive drainage shall be maintained on planting beds (minimum 2 percent slope).

no circumstances is a pesticide containing chlorpyrifos to be used as a means of pest control.

mulch shall be fine graded, grass seed planted, and covered with straw mulch.

Hummingbird Sweet Pepperbush

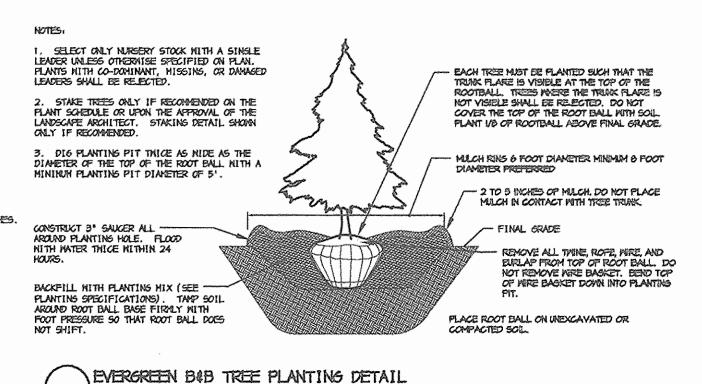
Abelia grandiflora 'Edward Gauche

Tuscarora Crapemyrtle

Edward Gaucher Abelia

Kwanazan Cherru

\SHRUB BED PLANTING DETAIL - B&B AND CONTAINER SHRUBS



1. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LINES o-dominant leaders, and broken or dead rancess. Some interior thics and lateral BRANCHES MAY BE PRUNED; HOWEVER, DO NOT EHOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. STAKE TREES CALY IF RECOMENDED ON THE PLANT SCHEDULE OR UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT. STAKING CETAIL SHOWN 3. DIG FLANTING PIT TRICE AS MIDE AS THE DIAMETER OF THE TOP OF THE ROOT BALL MITH A MINIMUM PLANTING PIT DIAMETER OF 5'. CONSTRUCT 3" SAUCER ALL AROUND --PLANTINS HOLE. FLOOD WITH WATER THICE HITHIN 24 HOURS BACKFILL WITH PLANTING MIX (SEE PLANTING SPECIFICATIONS). TAMP SOIL AROUND ROOT BALL BASE FIRMLY HITH FOOT PRESSURE SO THAT ROOT BALL DOES

EACH TREE MISTLES PLANTED SUCH THAT THE TRUNK PLANE IS VISIBLE AT THE TOP OF THE ROOTBALL TREES WERE THE TRAK FLARE IS NOT VISIBLE SHALL BE RELECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL FLANT UP OF ROSTBALL ABOVE FINAL GRADE MILCH RING 6 FOUT DIAMETER MANNIM O FOOT DIAMETER FREED TO -2 to 9 inchemof much do not place Much in contact with thee trunk. - REMOVE ALL TWINE ROPE WIRE, AND BEELAP FROM TOP OF ROOT BALL DO NOT REMOVE WIRE BACKET, BEND TOP OF MEE BACKET DOWN INTO PLANTING PLACE ROOT BALL ON UNEXCAVATED OR

BIORETENTION

REGUIREMENT

PARKING LOT

REGUIREMENT

LANDSCAPE

PERIMETER LANDSCAPE

FLANTING LEGEND

REQUIREMENT

PLANTING

(xx-xx)

PROP. SHADE TREE

PROP. ORNAMENTAL TREE

PROP. EVERGREEN TREE

DECIDUOUS BAB TREE PLANTING DETAIL

BIORETENTION PLANT LIST						
KEY	ar.	SCIENTIFIC/ COMMON NAME	SIZE	ROOT	SPACING	ZONE®
Œ	560	CAREX ELATA 'AUREA'** BOWLES GOLDEN SEDGE	2" PEAT POT	CONT.	6" SPACING	(1,2),3
IR	79	IRIS VERSICOLOR 'BLUE FLAG' BLUE FLAG IRIS	1 GAL.	CONT.	18" SPACING	(1,2),3
LC	61	LOBELIA CARDINALIS CARDINAL FLOWER	1 6AL.	CONT.	10" SPACING	1,(2,3),4

* HYDROLOGIC ZONES ACCORDING TO APPENDIX A OF THE MARYLAND MODEL STORMWATER MANAGEMENT ORDINANCE JULY 2000.

** ALSO KNOWN CAREX STRICTA 'AUREA

- 1) THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL
- 2) FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED WITH THE GRADING PERMIT
- CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- 5) 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.
- WITH THE MINIMUM STANDARDS CITED IN THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" PUBLISHED BY THE LANDSCAPE CONTRACTORS ASSOCIATION.
- OTHER PLANTINGS SHALL BE OF THE PROPER HEIGHT AND/OR SPREAD REQUIREMENTS IN ACCORDANCE WITH THIS PLAN AND THE HOWARD COUNTY LANDSCAPE
- 8) 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.
- DEVELOPER WILL COORDINATE WITH THE ADJACENT PROPERTY OWNER, LOT 47, REGARDING THE PRESERVATION, REPLACEMENT, OR SUBSTITUTION OF EXISTING VEGETATION DIRECTLY ADJACENT TO THE DRIVEWAY ON LOT 47.

THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION, DEPARTMENT OF PLANNING AND ZONING.

11.25.02 DATE

	PROP. SHRUB	00
•	EXISTING SHADE TREE	83
	EXISTING TREELINE	
	APPROVED : HOWARD COUNTY DEPARTMENT ZONING.	OF PLANNING AN
	DIRECTOR	/2/24/0. DATE
	CHIEF, DEVELOPMENT ENGINEERING DIVISION	12/10/02 800 DATE
	Coffanite-	12/20/02
	CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

DEVELOPER: DEVELOPMENT CORPORATION

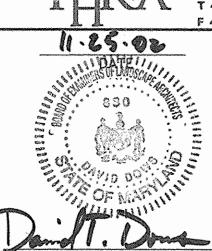
7741 MAYFIELD AVENUE ELKRIDGE, MD 21075

ST. STEPHENS ADULT DAYCARE

AREA ZONED M-1 LOT 53 TAX MAP 43, BLOCK 5 1st ELECTION DISTRICT

LANDSCAPE PLAN

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects.



DESIGNED BY : KT DRAWN BY: GTH PROJECT NO : 01295/ LSCP1.DWG DATE: NOVEMBER 25, 2002 SCALE : 1" = 20'

GENERAL NOTES:

IN THE AMOUNT OF \$8,540 13 SHADE TREES @ \$300 = \$3,900

12 EVERGREEN TREES @ \$150 = \$1,800 4 FLOWERING TREES @ \$150 = \$600 88 SHRUBS @ \$30 = \$2,640

3) THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.

4) CONTRACTOR IS SOLELY RESPONSIBLE FOR

6) ALL MATERIAL SHALL BE PLANTED IN ACCORDANCE

7) AT THE TIME OF INSTALLMENT, ALL SHRUBS AND MANUAL.

9) PRIOR TO CONSTRUCTION, THE CONTRACTOR AND

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 ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE

SIGNATURE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE NO. REVISION MEADOWRIDGE LOTS 4546LLC OWNER:

P.O. BOX 417 410-465-4244

HOWARD COUNTY, MARYLAND

TITLE

8818 Centre Pork Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282

DAVID T. DOWS R.L.A.#830

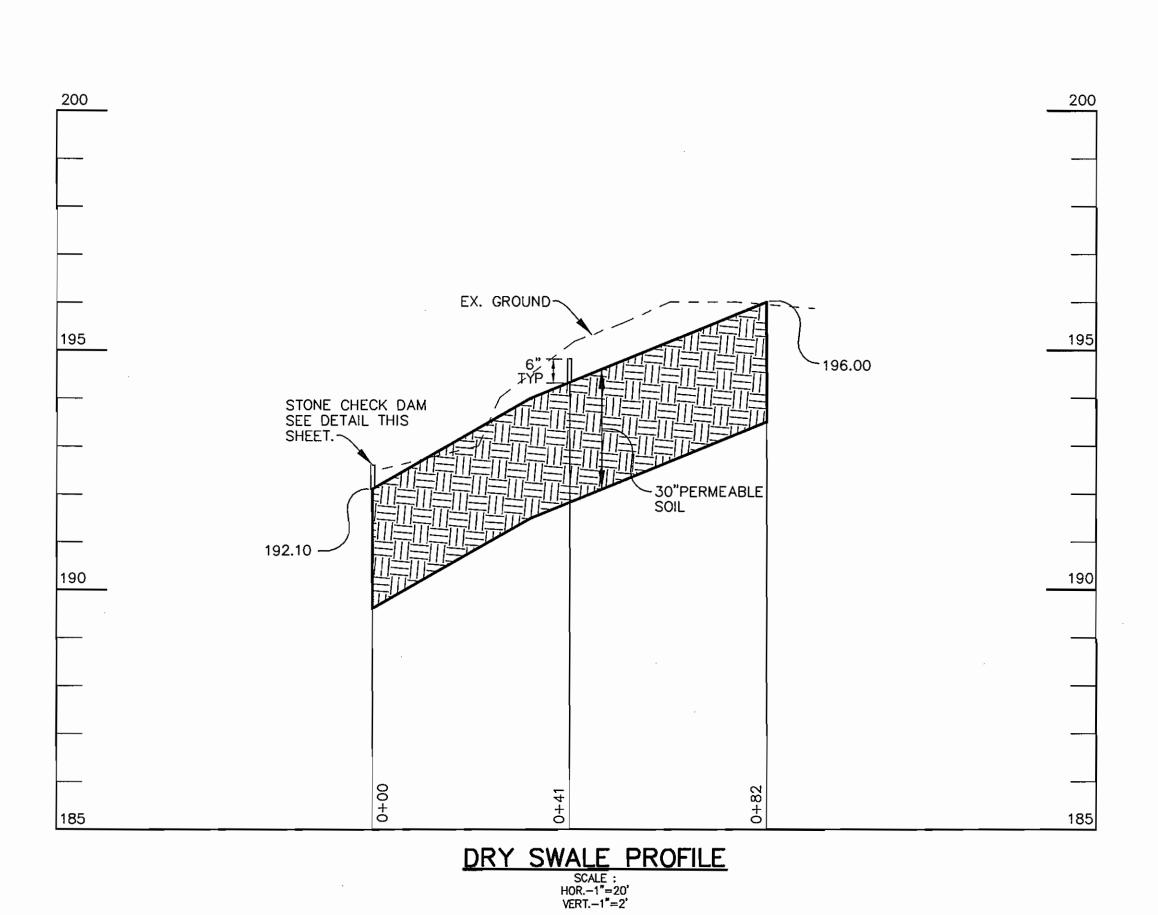
DRAWING NO. 6 OF 6 SDP-02-80

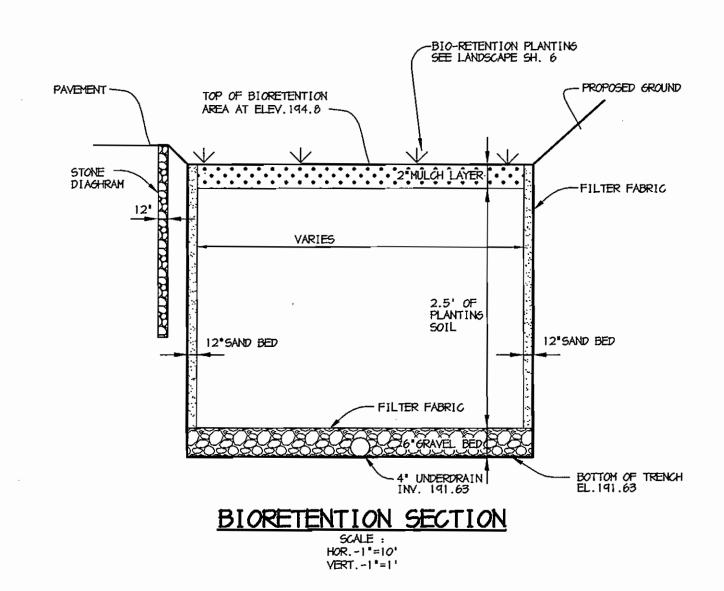
ELLICOTT CITY, MARYLAND 21041-0417

ST. STEPHENS ECONOMIC

PROJECT

WASHINGTON MANOR PARK





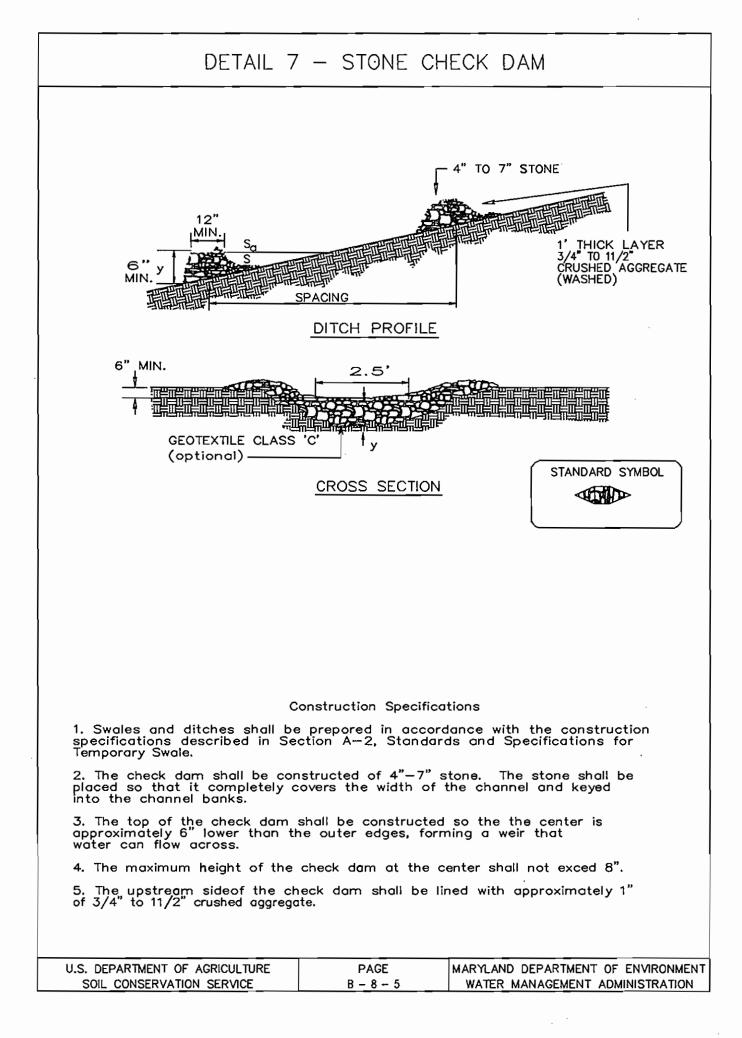


Table: Materials Specifications for Bioretention			
MATERIAL	SPECIFICATIONS	SIZE	NOTES
PLANTINGS	SEE LANDSCAPE PLAN SHEET	N/A	
PLANTING SOIL (2.5' TO 4' DEEP)	SAND 35 - 60 % SILT 30 - 55 % CLAY 10 - 25 %	N/A	USDA SOIL TYPES LOAMY SAND, SANDY LOAM, OR LOAM
MULCH	SHREDDED HARDWOOD	N/A	AGED 6 MONTHS, MINIMUM
STONE DIAGHRAM AND CURTAIN DRAIN	PEA GRAVEL: ASTM-D-448 ORNAMENTAL STONE: WASHED COBBLES	PEA GRAVEL: No. 6 STONE: 2" to 5"	
GEOTEXTILE	CLASSE "C"-APPARENT OPENING SIZE (ASTM-D-4751), GRAB TENSILE STRENGTH (ASTM-D-4632), PUNCTURE RESISTANCE (ASTM-D-4822)	N/A	FOR USE AS NECESSARY BENEATH UNDERDRAINS ONLY.
UNDERDRAIN GRAVEL	AASHTO M-43	0.375" to 0.75"	
UNDERDRAIN PIPE	F 758, TYPE PS 28 OR AASHTO M-278	4" RIGID SCHEDULE 40 PVC	1/2" PERF. @ 6"O/C, 4 HOLES PER ROW
SAND	AASHTO M-6 or ASTM C-33	0.02" to 0.04"	SAND SUBSTITUTIONS SUCH AS DIABASE AND GRASTONE #10 ARE NOT ACEPTABLE. NO CALCIUM CARBONATED OR DOLOMITIC SAND SUBSTITUTIONS ARE ACCEPTABLE. NO "ROCK DUS CAN BE USED FOR SAND.

OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED BIORETENTION FACILITY

- 1. ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER, AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING, PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
- 2. SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
- 3. MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
- 4. SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

TABLE: MATERIALS SPECIFICATIONS FOR DRY SWALE				
MATERIAL	SPECIFICATIONS	SIZE	NOTES	
DRY SWALE SOIL	USCD; ML, SM, SC	N/A	SOIL WITH A HIGHER PERCENT ORGANIC CONTENT IS PREFERRED	
DRY SWALE SAND	ASTM C-33 FINE AGGREGATE CONCRETE SAND	0.02" TO 0.04"		
CHECK DAM	SEE DETAIL THIS SHEET			
PEA GRAVEL DIAPHRAGM AND CURTAIN DRAIN	ASTM-D-448	VARIES: NO. 6 OR 1/8" TO 3/8"	USE CLEAN BANK-RUN GRAVEL	
UNDERDRAIN GRAVEL	AASHTO M-43	0.25" TO 0.75"		
UNDERDRAIN	F 758, Type PS 28 or AASHTO M-278	4" TO 6" RIGID SCHEDULE 40 PVC	1/2" PERF. @ 6" ON CENTER, 4 HOLES PER ROW; MINIMUM OF 3" GRAVEL OVER PIPES; NOT NECESSARY UNDERNEATH PIPES	
FILTER FABRIC	CLASS "C" — APPARENT OPENING SIZE (ASTM—D—4751) GRAB TENSILE STRENGTH (ASTM—D—4632), PUNCTURE RESISTANCE (ASTM—D—4833)	N/A	,	
RIP RAP	PER COUNTY CRITERIA; IF NONE GIVEN, USE MSHA STANDARDS AND SPECS SECTION 905	SIZE PER COUNTY DOT REQUIREMENTS BASED ON 10-YEAR DESIGN FLOWS		

OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED DRYSWALE

- 1. THE OPEN CHANNEL SYSTEM SHALL BE INSPECTED ANNUALLY AND AFTER MAJOR STORMS. INSPECTIONS SHALL BE PERFORMED DURING WET WEATHER TO DETERMINE IF THE FACILITY IS FUNCTIONING PROPERLY.
- 2. THE OPEN CHANNEL SHALL BE MOWED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN MAXIMUM GRASS HEIGHT OF LESS THAN 6 INCHES.
- 3. DEBRIS AND LITTER SHALL BE REMOVED DURING REGULAR MOWING OPERATIONS AND AS
- 4. VISIBLE SIGNS OF EROSION IN THE OPEN CHANNEL SYSTEM SHALL BE REPAIRED AS SOON AS IT IS NOTICED.
- 5. REMOVE SILT IN THE OPEN CHANNEL SYSTEM WHEN IT EXCEEDS 25% OF THE ORIGINAL WQv.

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.

11.25.02

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.

11.22.02 ENGINEER CHRISTOPHER J. REID #19949

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

ARD SOIL CONSERVATION DISTRICT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND

CHIEF, DIVISION OF LAND DEVELOPMENT S.B. DATE

DATE NO. REVISION OWNER: MEADOWRIDGE LOTS 4546LLC P.O. BOX 417 ELLICOTT CITY, MARYLAND 21041-0417

410-465-4244 ST. STEPHENS ECONOMIC DEVELOPER:

DEVELOPMENT CORPORATION 7741 MAYFIELD AVENUE ELKRIDGE, MD 21075

PROJECT

ST. STEPHENS ADULT DAYCARE

WASHINGTON MANOR PARK AREA ZONED M-1 LOT 53 TAX MAP 43, BLOCK 5 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE

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

11.22.02

DRAWN BY: PROJECT NO : 01295/ SDP5.DWG DATE: NOVEMBER 25, 2002

DESIGNED BY : CJR

SCALE : 1" = 20'DRAWING NO. 5 OF 6 CHRISTOPHER J. REID #19949

SDP-02-80

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

Conditions Where Practice Applies

- I. This practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoll/parent material is not adequate to produce vegetative arouth. b. 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. c. The original soll to be vegetated contains material toxic to plant growth. d. The soil is so acidic that treatment with limestone is not feasible
- II. 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 I. Topsoli 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-SCS in cooperation with Maryland Agricultural Experimentation Station.
- II. Topso!! Specifications Soil to be used as topso!! must meet the following:
- 1. 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. Régardiéss, topsoil shall not be a mixture of contrasting textured subscils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1½ in diameter.
- 11. Topsoll must be free of plants or plant parts such as bermuda grass, quackarass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
- III. 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.
- II. For sites having disturbed areas under 5 acres:

 Place topsoil (if required) and apply soll amendments as specified in <u>20.0 Vegetative</u>
 <u>Stabilization</u> Section I Vegetative Stabilization Methods and Materials.
- III. For sites having disturbed areas over 5 acres:
- i. On soll meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following: a. pH for topsoll shall be between 6.0 and 7.5. If the tested soll demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
- b. Organic content of topsoil shall be not less than 1.5 percent by weight. c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.

 d. 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 phyto-toxic materials.
- Note: Topsoi! 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 topsoll
- Place topsoll (If required) and apply soil amendments as specified in <u>20.0 Vegetative</u> <u>Stabilization</u> Section I Vegetative Stabilization Methods and Materials.
- Y. Topsoil Application
- 1. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilizátion Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- 11. Grades on the areas to be topsolled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- 111. Topsoll 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 packets.
- IV. Topsoli shall not be placed while the topsoil or subsoil is in a frozen or muddu condition, when the subsoil is excessively met 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:
 - a. 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.
 - b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent patassium 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.
 - d. Composted studge 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.

-1:1 SLOPE

References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1913.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

<u>Seedbed Preparation: Loosen upper three inches of soil by raking.</u> discing or other acceptable means before seeding, if not previously

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).

<u>Seeding: For periods March 1 thru April 30 and from August 15 thru</u> November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchorina.

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 long-lived vegetative cover is needed

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously

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

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 Ibs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following

- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

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

STANDARD SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 40 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)
- 2. 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 THERETO.
- 3. 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.
- 4. 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
- 5. 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, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. G.). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED OF GRASSES.
- 6. 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:

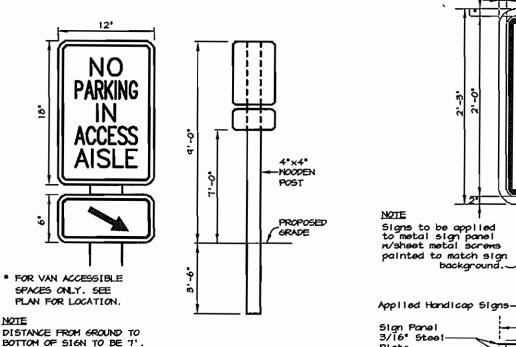
TOTAL FILL

TOTAL AREA OF SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED AREA TO BE VEGETATIVELY STABILIZED

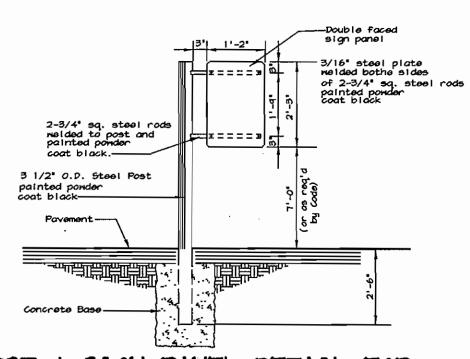
0.43 ACRES 0.21 ACRES 0.22 ACRES 400 CU. YARDS 600 CU. YARDS OFFSITE WASTE/BORROW LOCATION TO HAVE AN ACTIVE GRADING PERMIT

0.43 ACRES

- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. 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.
- 11. 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.
- 12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- 13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 14. 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.



ACCESS AISLE SIGN MOUNTING DETAIL FOR PARKING RESTRICTION SIGN



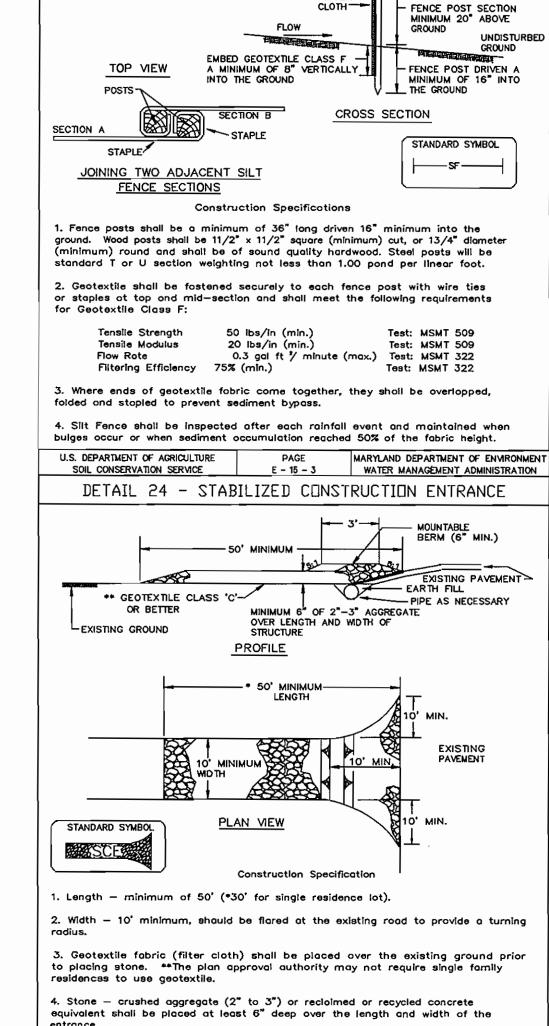
POST & SIGN PANEL DETAIL FOR PARKING RESTRICTION SIGN

RESERVED

ACCESSIBLE

-3 1/2" O. D. Steel Post Primed / Painted Powder Coat Black

3 1/2" O.D. Steel Post



DETAIL 22 - SILT FENCE

FILTER

PERSPECTIVE VIEW

-36" MINIMUM LENGTH FENCE POST DRIVEN A MINIMUM OF 16" INTO

GEOTEXTILE CLASS F

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior

5. Surface Water — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be pratected with a mountoble berm with 5:1 slopes and a minimum of 6" af stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spat and has no drainage to convey a pipe will not be necessary. Pipe should be sized occording to the amount of runoff to be conveyed. A 6" minimum will be required

6. Location — A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehiclee leaving the site must travel over the entire length of the stabilized construction entrance. PAGE MARYLAND DEPARTMENT OF ENVIRONMEN
F - 17 - 3 WATER MANAGEMENT ADMINISTRATION

SOIL CONSERVATION SERVICE 30.0 - DUST CONTROL

DEFINITION CONTROLLING DUST BLOWING AND MOVEMENT ON CONSTRUCTION SITES AND ROADS.

CONDITIONS WHERE PRACTICE APPLIES THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON OFF-SITE DAMAGE IS UKELY WITHOUT TREATMENT.

TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON AND OFF-SITE DAMAGE, HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

SPECIFICATIONS 1. MULCHES - SEE STANDARDS FOR VECETATIVE STABILIZATION WITH MULCHES ONLY.

REFERENCES

SDIL CONSERVATION SERVICE

2. VEGATATIVE COVER - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER. 3. TILLAGE — TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS AN EMERCENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS, BEGIN PLOWING ON WINDWARD SIDE OF SITE, CHISEL—TYPE PLOWS SPACED ABOUT 12" APART, SPRING—TOOTHED HARROWS, AND SIMIUAR PLOWS ARE EXAMPLES OF EQUIPMENT

4. IRRIGATION — THIS IS GENERALLY DONE AS AN EMERGENGY TREATMENT. SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS MOIST. REPEAT AS NEEDED. AT NO TIME SHOULD THE SITE BE IRRIGATED TO THE POINT THAT RUNOFF BEGINS TO FLOW. 5. BARRIERS - SOLID BOARD FENCES, SILT FENCES, SNOW FENCES, BURLAP FENCES, STRAW BALES, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 10 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING SOIL BLOWNIO.

CALCIUM CHLORIDE — APPLY AT RATES THAT WILL KEEP SURFACE MOIST. MAY NEED RETREATMENT.

PERMANENT VEGETATION -- SEE STANDARDS FOR PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES OR LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

 TOPSOILING — COVERING WITH LESS EROSIVE SOIL MATERIALS. SEE STANDARDS FOR TOPSOILING. 3. STONE - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL

 AGRICULTURE HANDBOOK 346. WIND EROSION FORCES IN THE UNITED STATES AND THEIR USES IN PREDICTING SOIL LOSS. 2. AGRICULTURE INFORMATION BULLETIN 354. HOW TO CONTROL WIND EROSION, USDA-ARS

H - 30 - 1

MARYLAND DEPARTMENT OF ENVIRONMEN

WATER MANAGEMENT ADMINISTRATION

RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION

BY THE DEVELOPER :

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.

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION

WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY

11.25.02

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.

11.22.02 ENGINEER CHRISTOPHER J. REID #19949

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

ERVATION SERVICE THIS DEVELOPMENT PLAN IS HOWARD SOIL CONSERVATION AND SEDIMENT CONTROL BY THE

APROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND

12/24/02

DEVELOPMENT ENGINEERING DIVISION 9740 Stanat 12/20/R CHIEF. DIVISION OF LAND DEVELOPMENT DATE.

DATE NO. REVISION OWNER: MEADOWRIDGE LOTS 4546LLC

ELLICOTT CITY, MARYLAND 21041-0417 410-465-4244 DEVELOPER: ST. STEPHENS ECONOMIC

AREA

DEVELOPMENT CORPORATION 7741 MAYFIELD AVENUE ELKRIDGE, MD 21075

P.O. BOX 417

PROJECT ST. STEPHENS ADULT DAYCARE

> WASHINGTON MANOR PARK ZONED M-1 LOT 53 TAX MAP 43, BLOCK 5 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

TITLE NOTES AND DETAILS

> Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997,8900

Patton Harris Rust & Associates,pc

1.22.02 DATE

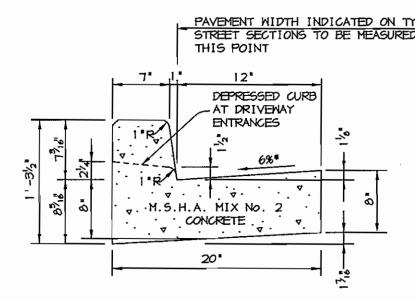
DESIGNED BY : CJR DRAWN BY: PROJECT NO : 01295/ SDP4.DWG

SCALE : 1" = 20"

DATE: NOVEMBER 25, 2002

DRAWING NO. <u>4</u> OF 6

CHRISTOPHER J. REID #19949 SDP-02-80



18.5' PARKING SPACE

REBAR ANCHOR

GROUND

CONCRETE WHEEL STOP

LOCATION PLAN

PAVING

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

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

STANDARD 7" COMBINATION CURB AND GUTTER

NO SCALE

DEPRESSED CURB AT DRIVEWAY ENTRANCES -M.S.H.A. MIX No. 2 CONCRETE 20"

BITUMINOUS CONCRETE SURFACE

BITUHINOUS CONCRETE BASE

8° CRUSHER RUN BASE COURSE (2 COURSES)

PENSE GRADED STABILIZED

VEGREGATE BASE COURSE

(ALTERNATE)

BITUHINOUS CONCRETE SURFACE

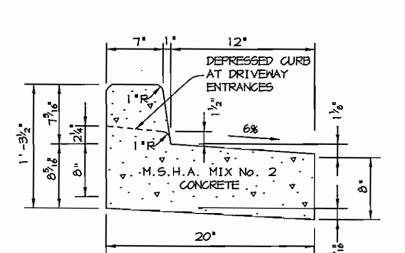
BITUHINOUS CONCRETE BASE

HOWARD COUNTY DESIGN MANUAL VOLUME IV-

P-2 PAVING

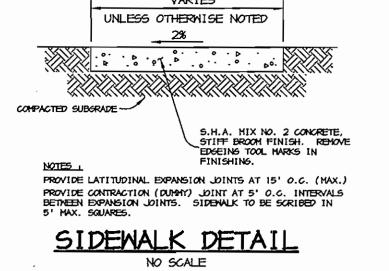
STANDARD SPECIFICATIONS AND DETAILS FOR

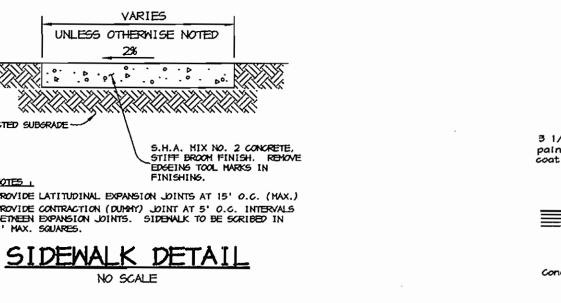
CONSTRUCTION (DRAWING R-2.01)

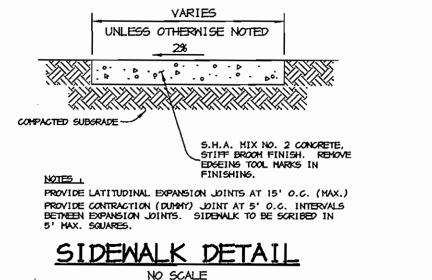


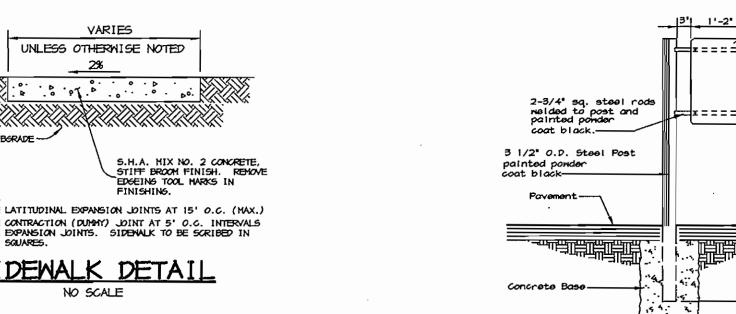
REVERSE 7" COMBINATION CURB AND GUTTER

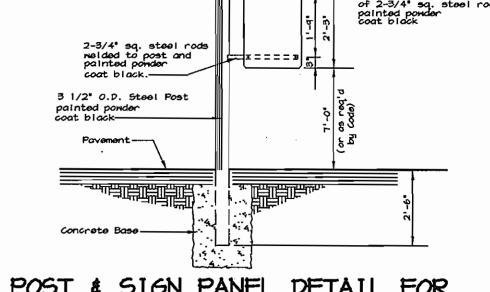
NO SCALE











5 0.034 AC

A DRY SWALE WAS USED TO MEET THE REMAINING WQV FOR DRAINAGE AREA #2.

THE BIORETENTION FACILITY WILL MEET THE REMAINAING WOV FOR DRAINAGE AREAS 1, 3, AND 5.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT.
- 2. INSTALL SCE AND SILT FENCE. (2 DAYS)
- 3. WITH PERMISSION OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, BEGIN CLEARING, ROUGH GRADING AND BEGIN BUILDING CONSTRUCTION.
- 4. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL UTILITIES INCLUDING SEWER AND
- WATER. (3 WEEKS)

 5. INSTALL CURB & GUTTER THEN PAVE. (1 WEEK)
- 6. APPLY TOPSOIL AND STABILIZE DISTURBED AREAS IN ACCORDANCE
- WITH PERMANENT SEEDING NOTES. (2 DAYS)
- 7. COMPLETE BUILDING CONSTRUCTION, FINE GRADING, LANDSCAPING, LIGHTING AND SIDEWALKS. (3 MONTHS)
- 8. INSTALL BIORETENTION FACILITY AND DRY SMALE ONCE AREAS DRAINING TO FACILITIES ARE STABLILIZED. (3 DAYS)
- 9. UPON APPROVAL OF HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

LEGEND

SECTE ALLERS DESIGN DESIGN DESIGN DESIGN DESIGN DESIGN DESIGN DESIGN DE DRAINAGE AREA DIVIDE (FOR SWM SWALES)

SF----SF SILT FENCE

LIMIT OF DISTURBANCE

(1) DRAINAGE AREA DESIGNATION

ALL SOIL ARE TYPE "C", SED, SANDY CLAYEY LAND.



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.

EROSION CONTROL MATTING

DEVELOPER TO STREET

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.

ENCINEED CHRISTOPHED I BEID A

ENGINEER CHRISTOPHER J. REID #19949 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL

11.25.02

11.22.02

12/21/02 5:13. DATE

CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

NA ORAL RESOURCES CO SERVATION SERVICE
THIS DEVELOPMENT PLAN IS AND SEDIMENT CONTROL BY HOWARD SO

Alm Pholosopa 12/4/

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND

DATE

DATE

| 12/24/02
| DATE

| CHIEF, DEVELOPMENT ENGINEERING DIVISION 800 DATE

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE NO. OWNER:

MEADOWRIDGE LOTS 4546LLC P.O. BOX 417 ELLICOTT CITY, MARYLAND 21041-0417

410-465-4244

7741 MAYFIELD AVENUE

REVISION

DEVELOPER: ST. STEPHENS ECONOMIC DEVELOPMENT CORPORATION

ELKRIDGE, MD 21075

PROJECT

AREA

ST. STEPHENS ADULT DAYCARE

WASHINGTON MANOR PARK
ZONED M-1 LOT 53
TAX MAP 43, BLOCK 5
1st ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

GRADING, SEDIMENT CONTROL PLAN
AND DRAINAGE AREA MAP

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects.

P-R+A = 00 T F

8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900 F 410.997.9282

DATE

CHRISTOPHER J. REID #19949

DESIGNED BY : CJR
DRAWN BY:

PROJECT NO : 01295/ SDP3.DWG DATE : NOVEMBER 25, 2002

SCALE : 1" = 20'

DRAWING NO. _3 OF _6

SDP-02-80

CROSS—SECTION

B

CROSS—SECTION

CROSS—SECTION

B

CROSS—SECTION

CROSS—

Construction Specifications

 Key—in the matting by placing the top ends of the matting in a norrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross—section. Secure with a row of staples about 4" down slope from the trench. Spacing between staples is 6".

2. Stople the 4" overlap in the channel center using an 18" spacing between staples.3. Before stapling the outer edges of the matting, make sure the

matting is smooth and in firm contact with the soil.

4. Staples shall be placed 2' apart with 4 rows for each strip, 2

outer rows, and 2 alternating rows down the center.

5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples

spaced 6" apart in a stoggered pottern on either side.

6. The discharge end of the matting liner should be similarly

Note: If flow will enter from the edge of the matting then the area

DISCONNECTION OF ROOFTOP AND NON-ROOFTOP CREDIT AND BIORETENTION

296 CF | 482 SF

94 0.1 HR 0.1 CFS 0.2 CFS 29 CF

0.1 HR | 0.6 CFS | 1.3 CFS | 266 CF | 433 SF | DISCONNECTION OF ROOFTOP AND NON-ROOFTOP CREDIT AND BIORETENTION

47 SF BIORETENTION

effected by the flow must be keyed—in.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE MARYLAND DEPARTMENT OF ENVIRONMEN

WATER MANAGEMENT ADMINISTRATION