

STAYBRIDGE SUITES

SITE DEVELOPMENT PLAN

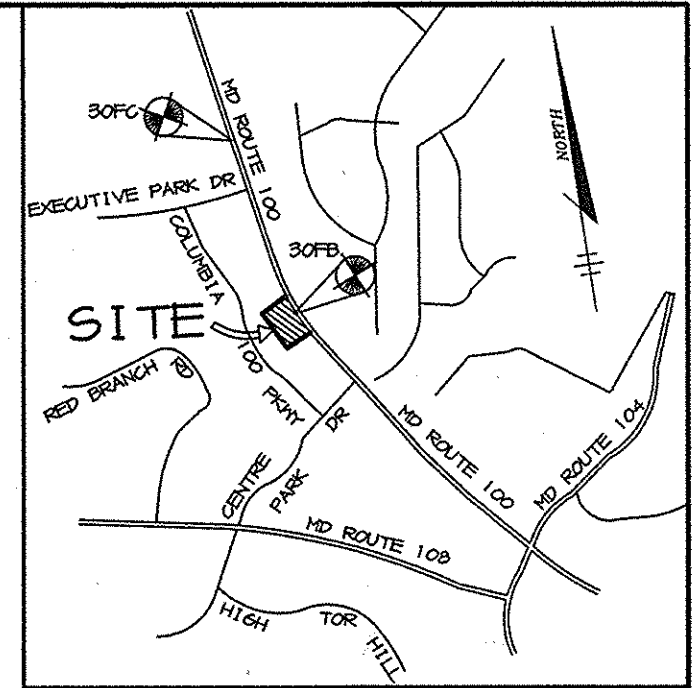
2nd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

BENCHMARKS

HQ. CO. SURVEY CONTROL
STATION: 30FB
N 570,134 E 1,365,194

HQ. CO. SURVEY CONTROL
STATION: 30FC
N 572,917 E 1,364,670



VICINITY MAP
SCALE: 1"=2000'

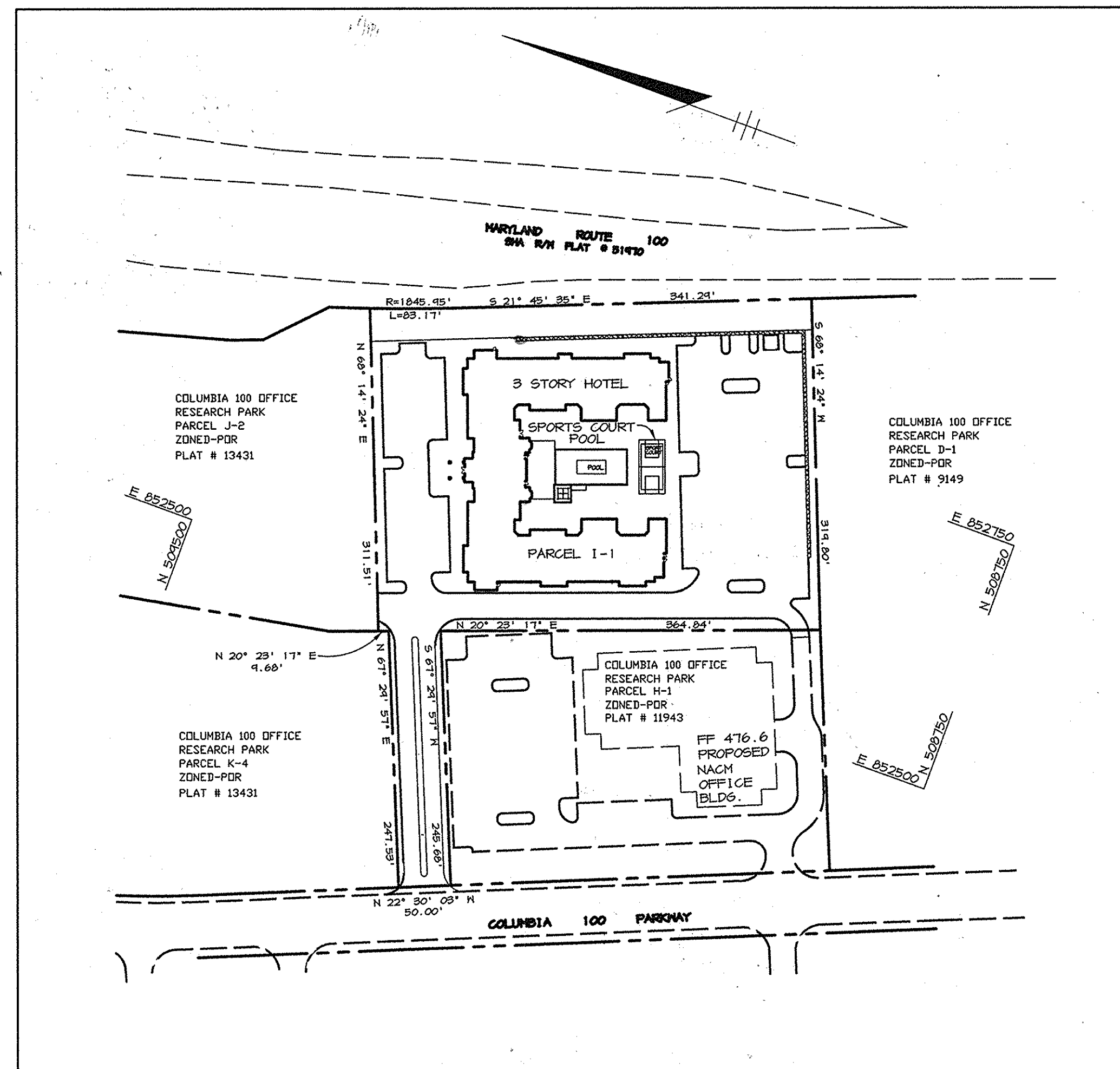
SHEET INDEX	
1	TITLE SHEET
2	SITE DEVELOPMENT PLAN
3	GRADING & SEDIMENT CONTROL PLAN
4	PROFILE & DETAIL PLAN
5	DETAILS & NOTES
6	DETAILS & NOTES
7	LANDSCAPE PLAN
8	RETAINING WALL PROFILES & DETAILS

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 UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY NINGS AERIAL MAPPING CO. DATED (JULY, 1998).
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 30FB AND 30FC WERE USED FOR THIS PROJECT.
- WATER IS PUBLIC. CONTRACT NO. - 24-3734-D
- SEWER IS PUBLIC. CONTRACT NO. - 24-3734-D DRAINAGE AREA : 100 PUMPING STATION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- A 100- YEAR FLOODPLAIN STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A WETLANDS DELINEATION FOR THIS PROJECT IS NOT REQUIRED.
- A TRAFFIC STUDY FOR THIS PROJECT IS NOT REQUIRED.
- A NOISE STUDY FOR THIS PROJECT IS NOT REQUIRED.
- A GEOTECHNICAL STUDY FOR THIS PROJECT IS NOT REQUIRED.
- STORMWATER QUALITY AND QUANTITY MANAGEMENT IS PROVIDED FOR THE DEVELOPMENT BY REGIONAL RETENTION FACILITY PER F-87-82.
- SUBJECT PROPERTY ZONED FOR PER 10-10-93 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 NO'S: F-87-82, GP-86-57.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6" OF FINISHED GRADE.
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T180.
- AS THIS PROJECT WAS SUBJECT TO FINAL PLANS AND MASS GRADING PLANS PRIOR TO THE FOREST CONSERVATION ACT, THERE ARE NO FOREST CONSERVATION REQUIREMENTS FOR THIS DEVELOPMENT.

SITE TABULATION

TOTAL AREA	3.351 AC. (145,970 SF)
CURRENT ZONING	POR
PROPOSED USE	3 STORY EXTENDED STAY HOTEL
BUILDING COVERAGE	24,250 SQ. FT.
REQUIRED PARKING	119 ROOMS @ 1SP / ROOM = 119 SPACES
PROPOSED PARKING	126 SPACES (INCLUDES 7 HC SPACES)
PAVED AREA	58,050 SF (40% OF SITE)



PLAN
SCALE: 1"=100'

CHIMNEY ELEV.	536.71
TOP PLATE ELEV.	514.12
3RD FL. ELEV.	506.00
2ND FL. ELEV.	496.25
1ST FL. ELEV.	486.50

BUILDING ELEVATION

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James K. Smith</i> DIRECTOR	1/14/99 DATE
<i>Richard Blood</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	12/31/98 DATE
<i>Richard Blood</i> CHIEF, DIVISION OF LAND DEVELOPMENT	12/31/98 DATE

DATE	NO.	REVISION

OWNER:	DEVELOPER:
MDS COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 730-4091	CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30367 (404) 888-3316

PROJECT	STAYBRIDGE SUITES AN EXTENDED STAY HOTEL
AREA	COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1, AREA 2 PARCEL 406, TAX MAP NO. 30, BLOCK 1B, LOT 1-1 2nd ELECTION DISTRICT ZONED-POR HOWARD COUNTY, MARYLAND
TITLE	TITLE SHEET

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

DATE	DESIGNED BY : C.R.
	DRAWN BY : D.R.D.
	CHECKED BY : C.R.
PROJECT NO : 98210 SDP1.DWG	PROJECT NO : 98210 SDP1.DWG
DATE : DECEMBER 16, 1998	DATE : DECEMBER 16, 1998
SCALE : AS SHOWN	SCALE : AS SHOWN
DRAWING NO. 1 OF 8	DRAWING NO. 1 OF 8

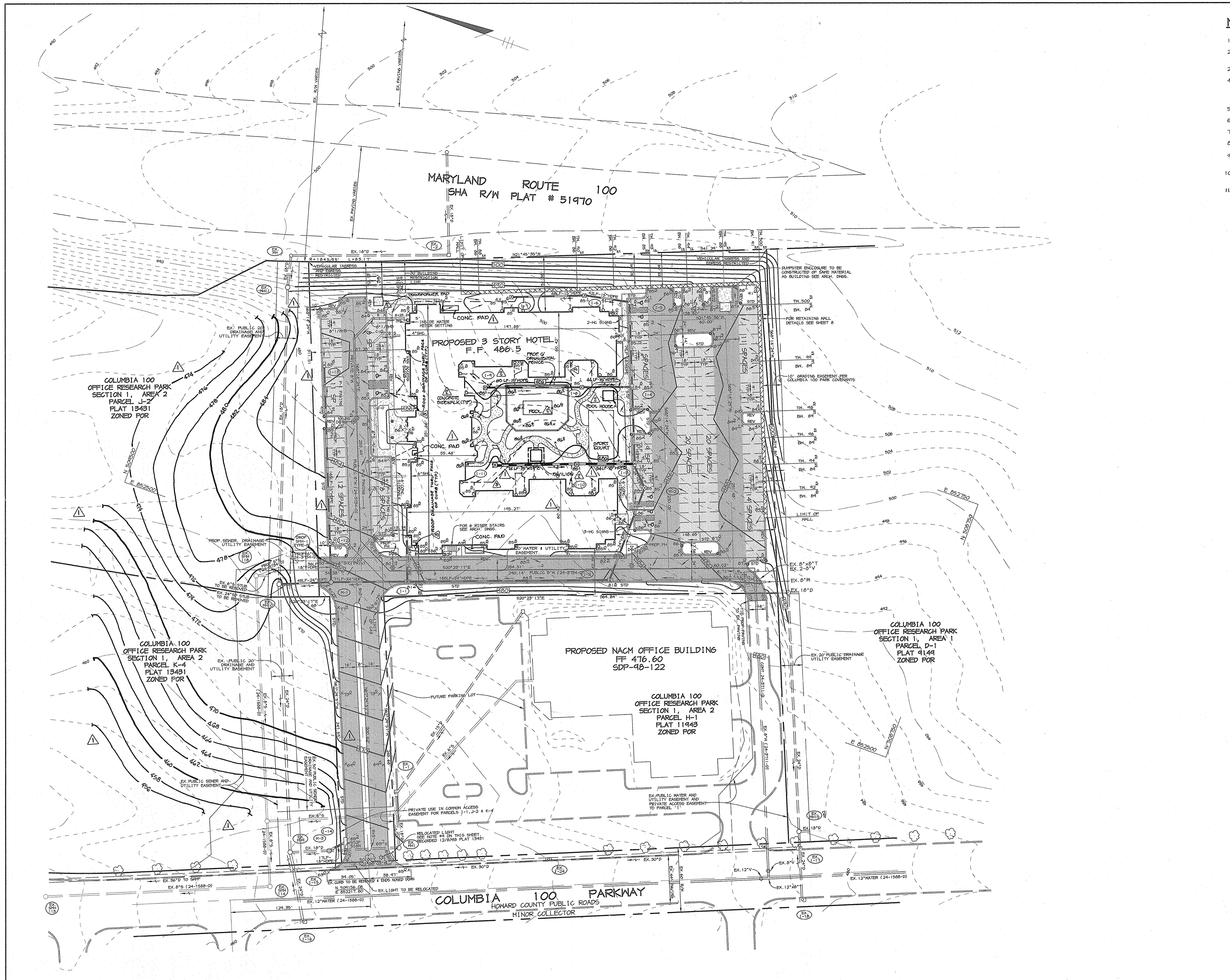
ADDRESS CHART

LOT NUMBER	STREET ADDRESS
I-1	8844 COLUMBIA 100 PARKWAY

SUBDIVISION NAME	COLUMBIA 100 OFFICE RESEARCH PARK	SECT./AREA	1/2	PARCEL	406
PLAT #:	13431	BLOCK #:	10	ZONE:	POR
TAX MAP NO.	30	ELECT. DIST	2ND	GENSUS TRACT:	6023.02
WATER CODE:	6-02	SEWER CODE:	5657400		

NOTES:

1. ALL RADII 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 154 OF THE HOWARD COUNTY ZONING REGULATIONS.
5. ○ STD/REV - STANDARD TO REVERSE CURB TRANSITION.
6. [Pattern] P-1 PAVING
7. [Pattern] P-2 PAVING
8. [Pattern] CONCRETE
9. [Symbol] 150-WATT HPS VAPOR PENDANT FIXTURE (CUTOFF) MOUNTED AT 30' ON A BRONZE FIBERGLASS POLE USING A 12' ARM.
10. SWIMMING POOL WATER TO BE DISCHARGED TO THE STORM DRAIN SYSTEM UNDER A STATE ISSUED NPDES GENERAL PERMIT.
11. [Symbol] 4" ROOF DRAINAGE LEADER (TYR)



11-11-99	ADDED ROOF DRAINAGE
DATE NO.	REVISION
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>James R. ...</i>	1/2/99
DIRECTOR	DATE
<i>Richard B. ...</i>	12/31/98
CHIEF, DEVELOPMENT-ENGINEERING DIVISION	DATE
<i>Richard B. ...</i>	12/31/98
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
3-10-99	REARRANGE COURTYARD COMPONENTS, ADD TRANSFORMER PAD
2-2-99	RELOCATE 15 GAL GREASE TRAP; RELOCATED 3-11 & 1-10; ADDED CONC. PADS(S) & POOL ROOM; MODIFIED GRADING.
DATE NO.	REVISION
OWNER:	DEVELOPER:
MDG COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 730-9091	CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30361 (404) 888-3316
PROJECT STAYBRIDGE SUITES AN EXTENDED STAY HOTEL	
AREA COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1, AREA 2 PARCEL 406, TAX MAP 30, BLOCK 18, LOT 1-1 2nd ELECTION DISTRICT ZONED-FOR HOWARD COUNTY, MARYLAND	
TITLE SITE DEVELOPMENT PLAN	
RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive, Columbia, Maryland 21045 tel 410.997.8900 fax 410.997.9282	
DATE	DESIGNED BY: C.R.
	DRAWN BY: D.R.D.
	CHECKED BY: C.R.
	PROJECT NO: 98210 SDP2.DWG
	DATE: DECEMBER 16, 1998
	SCALE: 1"=40'
ARTHUR E. MUEGGE #8707	DRAWING NO. 2 OF 8

DRAINAGE CHART

INLET	DRAINAGE AREA (AC)	%IMP	'C'
I-1	0.10	78%	0.72
I-2	0.30	80%	0.73
I-3	0.40	70%	0.67
I-4	0.40	50%	0.55
I-5	0.50	40%	0.44
I-6	0.10	45%	0.51
I-7	0.15	40%	0.48
I-8	0.10	40%	0.48
I-9	0.20	50%	0.55
I-10	0.10	40%	0.48
I-11	0.20	50%	0.55
I-12	0.15	90%	0.80
I-13	0.40	65%	0.67
I-14	0.70	90%	0.80

NOTE: ALL ON-SITE SOILS ARE ASSUMED TYPE "C" DUE TO MASS GRADINGS.

INLET SEDIMENT TRAP #1 (I-3)

DRAINAGE AREA	0.34 AC. (REFLECTS EARTH DIKE DIVERSION)
STORAGE VOLUME REQUIRED	1224 CF = 612 DRY + 612 MET
NET STORAGE PROVIDED	612 CF @ 482.75'
DRY STORAGE PROVIDED	1000 CF @ 484.00'
TOP OF NEIR	484.4'
BOTTOM ELEVATION	482.0'
BOTTOM DIMENSION	41'x13'
CLEANOUT ELEVATION	482.5'
SIDE SLOPES	2:1
DEWATERING PIPE DRAINOWN ELEVATION	482.75'

INLET SEDIMENT TRAP #2 (I-4 & I-5)

DRAINAGE AREA	0.60 AC. (REFLECTS EARTH DIKE DIVERSION)
STORAGE VOLUME REQUIRED	2448 CF = 1224 DRY + 1224 MET
NET STORAGE PROVIDED	1224 CF @ 483.00'
DRY STORAGE PROVIDED	1240 CF @ 484.00'
TOP OF NEIR	484.8'
BOTTOM ELEVATION	482.0'
BOTTOM DIMENSION	72'x12'
CLEANOUT ELEVATION	482.8'
SIDE SLOPES	2:1
DEWATERING PIPE DRAINOWN ELEVATION	483.00'

INLET SEDIMENT TRAP #3 (I-13)

DRAINAGE AREA	0.40 AC.
STORAGE VOLUME REQUIRED	1440 CF = 720 DRY + 720 MET
NET STORAGE PROVIDED	720 CF @ 482.20'
DRY STORAGE PROVIDED	808 CF @ 483.00'
TOP OF NEIR	483.4'
BOTTOM ELEVATION	481.0'
BOTTOM DIMENSION	50'x10'
CLEANOUT ELEVATION	481.8'
SIDE SLOPES	2:1
DEWATERING PIPE DRAINOWN ELEVATION	482.20'

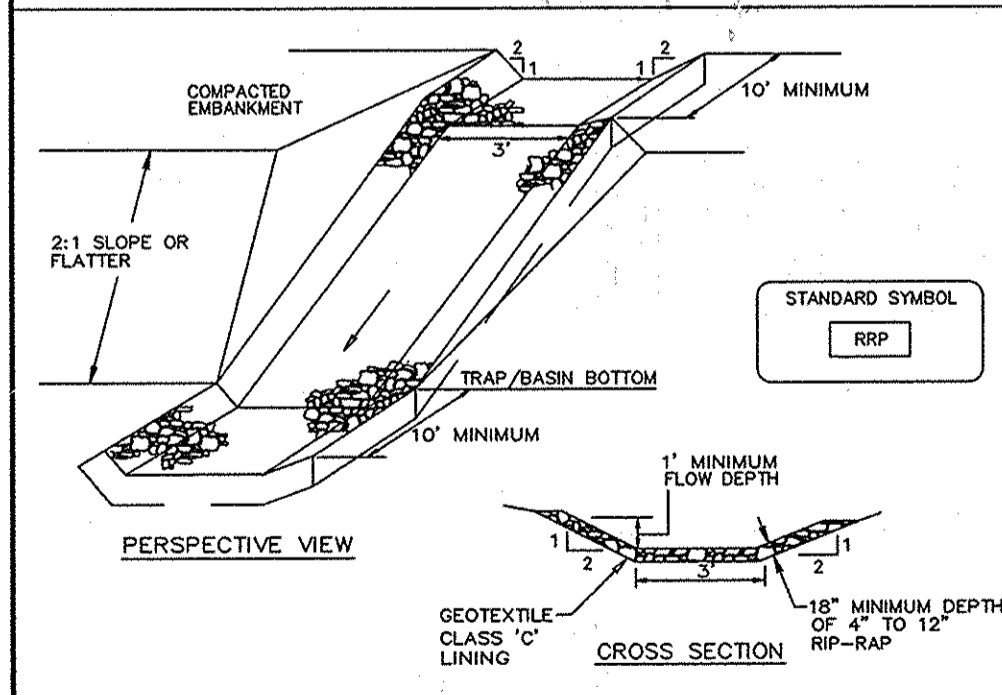
STONE OUTLET SEDIMENT TRAP #1

DRAINAGE AREA	0.70 AC.
STORAGE VOLUME REQUIRED	2520 CF = 1260 DRY + 1260 MET
NET STORAGE PROVIDED	1320 CF @ 451.45'
DRY STORAGE PROVIDED	1320 CF @ 458.50'
TOP OF DAM	460.5'
TOP OF NEIR	454.5'
NEIR LENGTH	5'
BOTTOM ELEVATION	456.0'
BOTTOM DIMENSION	50'x6' (SEE PLAN)
CLEANOUT ELEVATION	451.00'
SIDE SLOPES	2:1

NOTE:

1. SCE IS TO BE USED FOR THE DIVERSION OF RUNOFF INTO THE TRAP AND IS TO BE MAINTAINED DAILY.

DETAIL 5 - RIP-RAP INFLOW PROTECTION



- Construction Specifications**
1. Rip-rap lined inflow channels shall be 1' in depth, have a trapezoidal cross section with 2:1 or flatter side slopes and 3' (min.) bottom width. The channel shall be lined with 4" to 12" rip-rap to a depth of 18".
 2. Filter cloth shall be installed under all rip-rap. Filter cloth shall be Geotextile Class C.
 3. Entrance and exit sections shall be installed as shown on the detail section.
 4. Rip-rap used for the lining may be recycled for permanent outlet protection if the basin is to be converted to a stormwater management facility.
 5. Gabion Inflow Protection may be used in lieu of Rip-rap Inflow Protection.
 6. Rip-rap should blend into existing ground.
 7. Rip-rap Inflow Protection shall be used where the slope is between 4:1 and 10:1, for slopes flatter than 10:1 use Earth Dike or Temporary Swale lining criteria.

SEQUENCE OF CONSTRUCTION

1. OBTAIN A GRADING PERMIT.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, STONE OUTLET TRAP #1, SILT FENCE, SUPER SILT FENCE, AND EARTH DIKE (8 DAYS).
3. UPON PERMISSION OF HO. CO. D.I.L.P. SEDIMENT CONTROL INSPECTOR, BEGIN ROUGH GRADING AND BUILDING CONSTRUCTION. CONSTRUCT WALL AS GRADING PROCEEDS. INSTALL STORM DRAINS AS SOON AS SUBGRADE ELEVATIONS ARE ESTABLISHED.
4. INSTALL INLET SEDIMENT TRAPS 1,2&3 AT INLETS I-3, I-4, I-5 AND I-13 (10 DAYS).
5. UPON REACHING SUBGRADE ELEVATION COMPLETE STORM DRAINS, SEWER AND WATER CONSTRUCTION (4 WEEKS).
6. UPON PERMISSION OF HO. CO. D.I.L.P. INSPECTOR REMOVE INLET TRAPS AND STONE OUTLET TRAP.
7. INSTALL CURB AND GUTTER THEN PAVE (4 WEEKS).
8. INSTALL SIDEWALK, LIGHTS, AND LANDSCAPING. (2 WEEKS)
9. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES (3 DAYS).
10. COMPLETE ALL REMAINING CONSTRUCTION AND STABILIZE ALL REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 MONTHS)

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.

Stewart L. Miller 12-16-98
DEVELOPER DATE

BY THE ENGINEER :

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

Michael Muegge 12-16-98
ENGINEER DATE

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

Cheryl Simmons 12/22/98
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John P. Robertson 12/22/98
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James S. Reuter 1/4/99
DIRECTOR DATE

Richard Blood 12/21/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blood 12/21/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

2-2-99 MODIFIED GRADING, LIMIT OF DISTURBANCE & SILT FENCING LOCATION

DATE NO.	REVISION
OWNER:	DEVELOPER:
MDS COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 730-9041	CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30367 (404) 888-3316

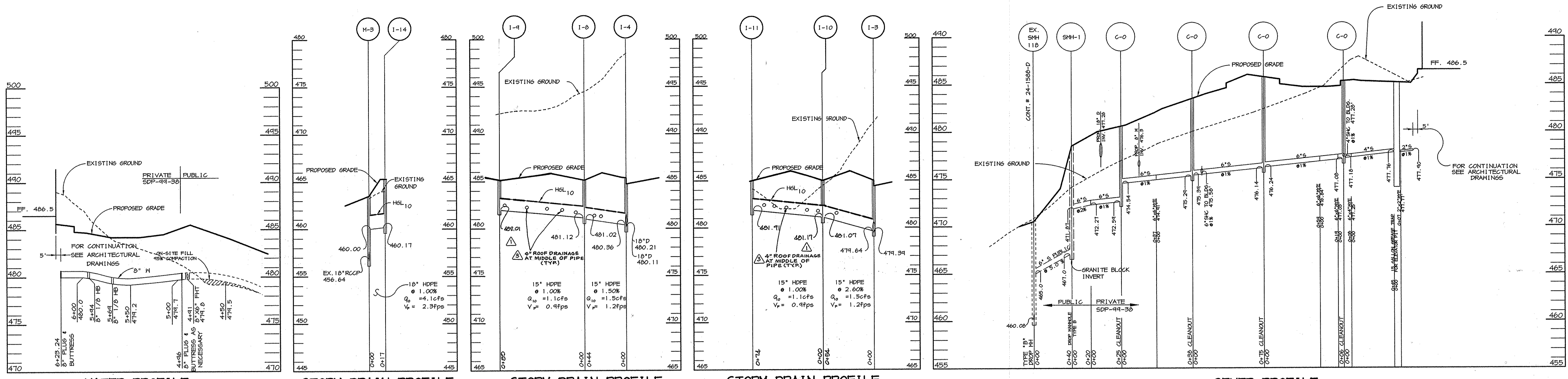
PROJECT
STAYBRIDGE SUITES
AN EXTENDED STAY HOTEL

AREA
COLUMBIA 100 OFFICE RESEARCH PARK
SECTION 1, AREA 2
PARCEL 406, TAX MAP 30, BLOCK 18, LOT I-1
2nd ELECTION DISTRICT ZONED-POR
HOWARD COUNTY, MARYLAND

TITLE
SEDIMENT CONTROL PLAN
AND DRAINAGE AREA MAP

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

DATE	DESIGNED BY : C.R.
	DRAWN BY : D.R.D.
	CHECKED BY : C.R.
	PROJECT NO : 98210 SDP3.DWG
	DATE : DECEMBER 16, 1998
	SCALE : 1"=40'
	DRAWING NO. 3 OF 8



WATER PROFILE

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

STORM DRAIN PROFILE

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

STORM DRAIN PROFILE

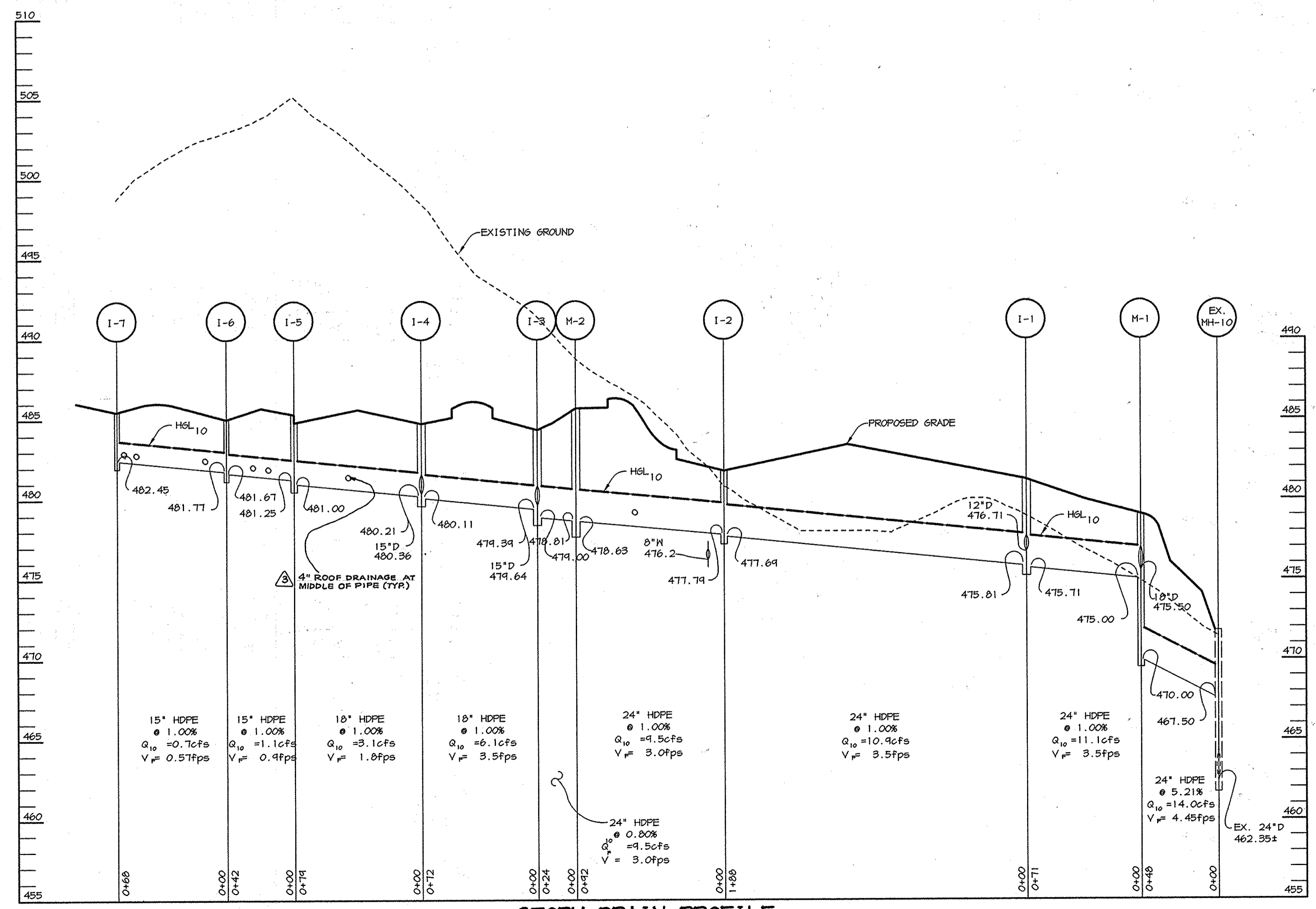
SCALE:
HOR. 1"=50'
VERT. 1"=5'

STORM DRAIN PROFILE

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

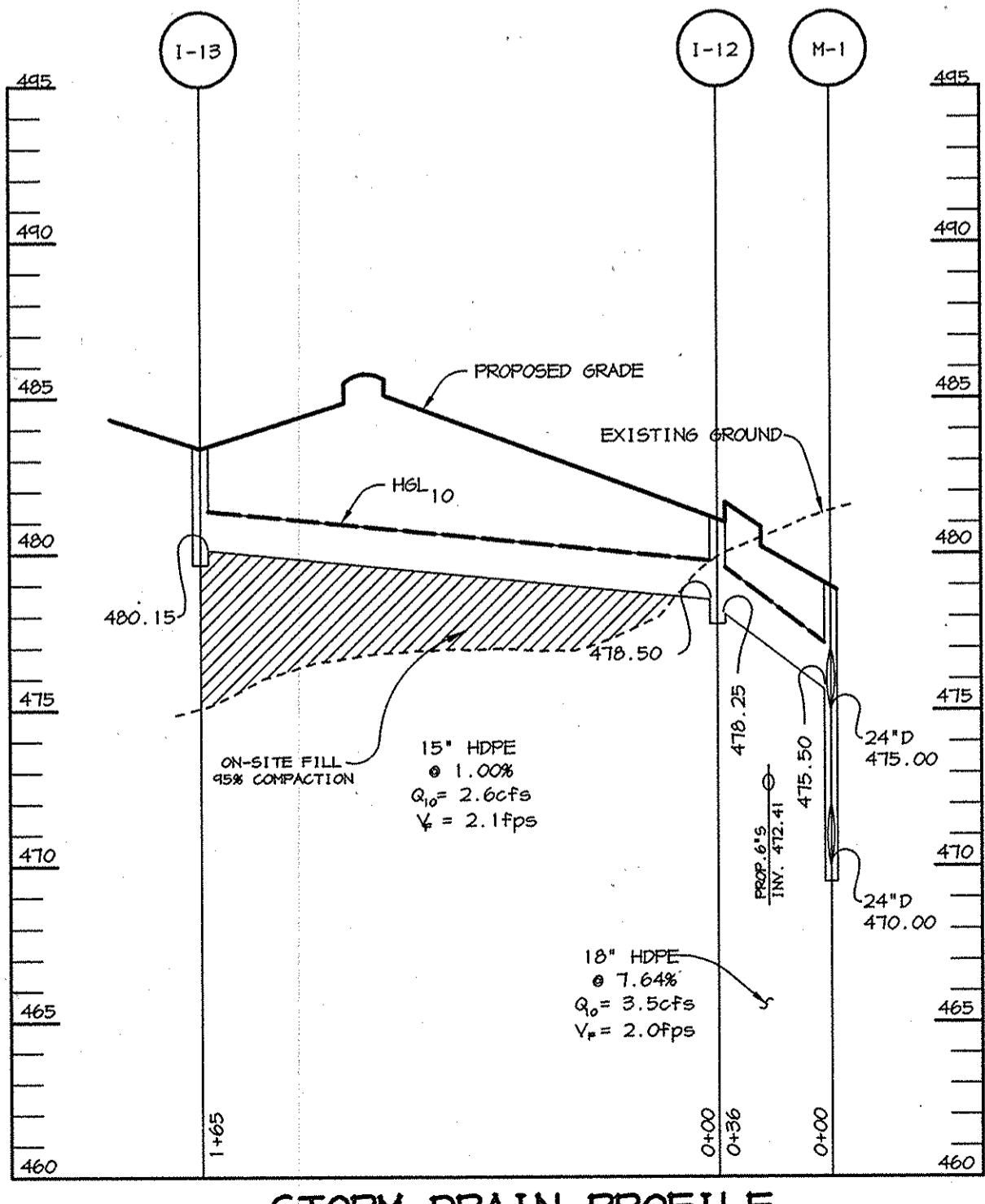
SEWER PROFILE

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'

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James Smith 1/4/99
DIRECTOR DATE

Richard Blood 12/31/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blood 12/31/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. 11-11-99	REVISION ADDED ROOF DRAINAGE
DATE NO. 0-19-99	REVISION REV. I-9 & I-10 LOCATIONS

OWNER: MDS COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 730-9041	DEVELOPER: CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30367 (404) 888-9316
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PROJECT: **STAYBRIDGE SUITES**
AN EXTENDED STAY HOTEL

AREA: COLUMBIA 100 OFFICE RESEARCH PARK
SECTION 1, AREA 2
PARCEL 406, TAX MAP 30, BLOCK 18, LOT I-1
2nd ELECTION DISTRICT ZONED-POR
HOWARD COUNTY, MARYLAND

TITLE: **PROFILES**

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

DATE	DESIGNED BY: C.R.
	DRAWN BY: D.R.D.
	CHECKED BY: C.R.
	PROJECT NO: 98210 SDP4.DWG
	DATE: DECEMBER 16, 1998
	SCALE: 1" = 50'
	DRAWING NO. 4 OF 8

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 (319-1895).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1984 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. 6.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHED OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
- | | |
|------------------------------------|------------------|
| TOTAL AREA OF SITE | 3.951 ACRES |
| AREA DISTURBED | 2.918 ACRES |
| AREA TO BE ROOFED OR PAVED | 1.500 ACRES |
| AREA TO BE VEGETATIVELY STABILIZED | 2.418 ACRES |
| TOTAL CUT | 28,000 CU. YARDS |
| TOTAL FILL | 10,000 CU. YARDS |
- OFFSITE WASTE AREA LOCATION TO HAVE AN APPROVED 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 OF AGRICULTURE IS 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 redistributed where a short-term vegetative cover is needed.
- Seedbed 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 1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching** - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 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.
- Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR rate and methods not covered.

PERMANENT SEEDING NOTES

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seedbed 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 (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 1/2 bushels per acre (3.2 lbs. per 1000 sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:
- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
 - Use sod.
 - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.
- Mulching** - Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 210 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 reseedsings.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

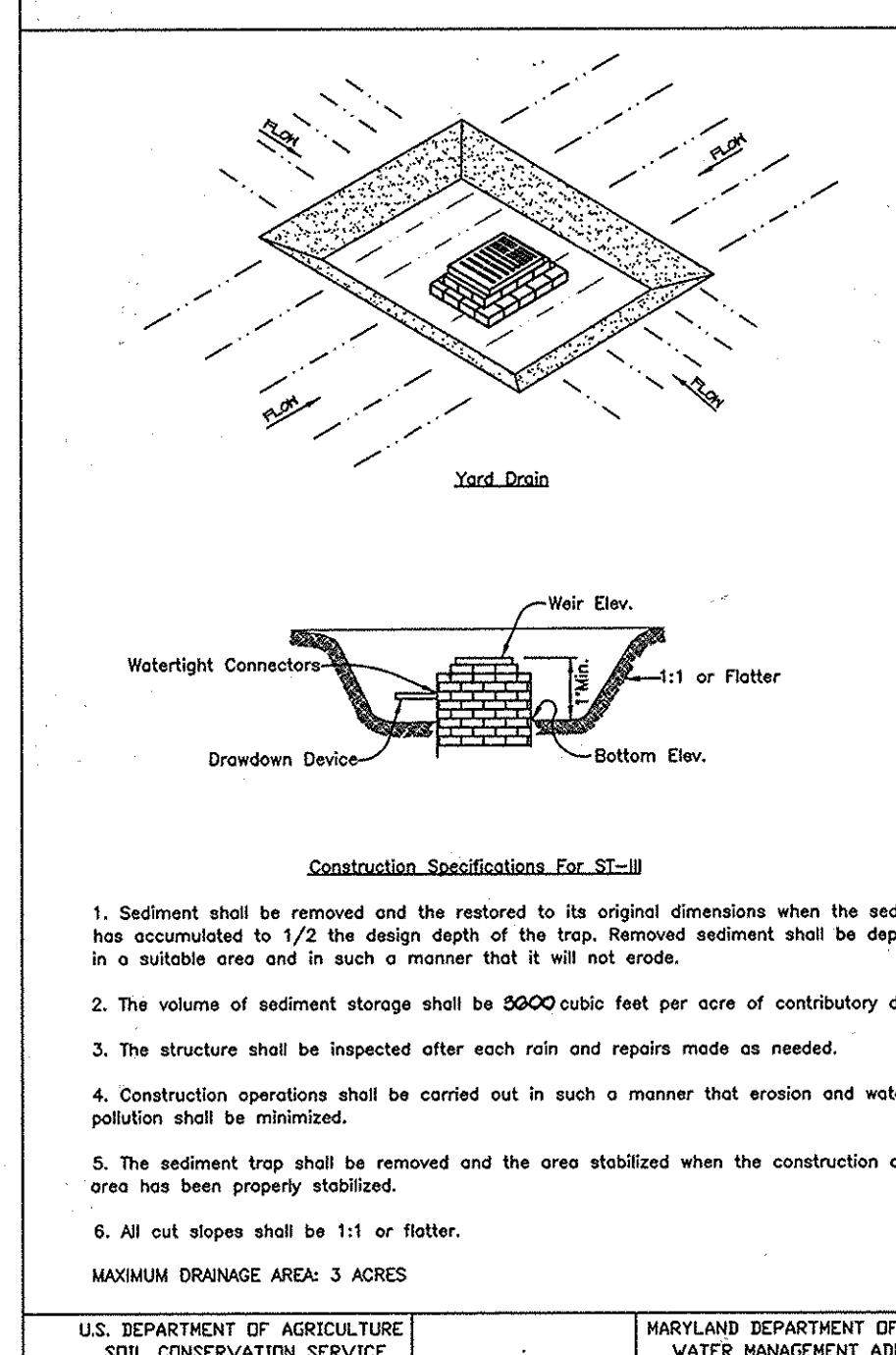
- Definition**
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
- Purpose**
To provide a suitable soil medium for vegetative growth. Soils of concern have low nutrient content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil 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 USNR-SSC 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, 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 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 phyto-toxic 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.
- 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 26.06.06.
 - 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.

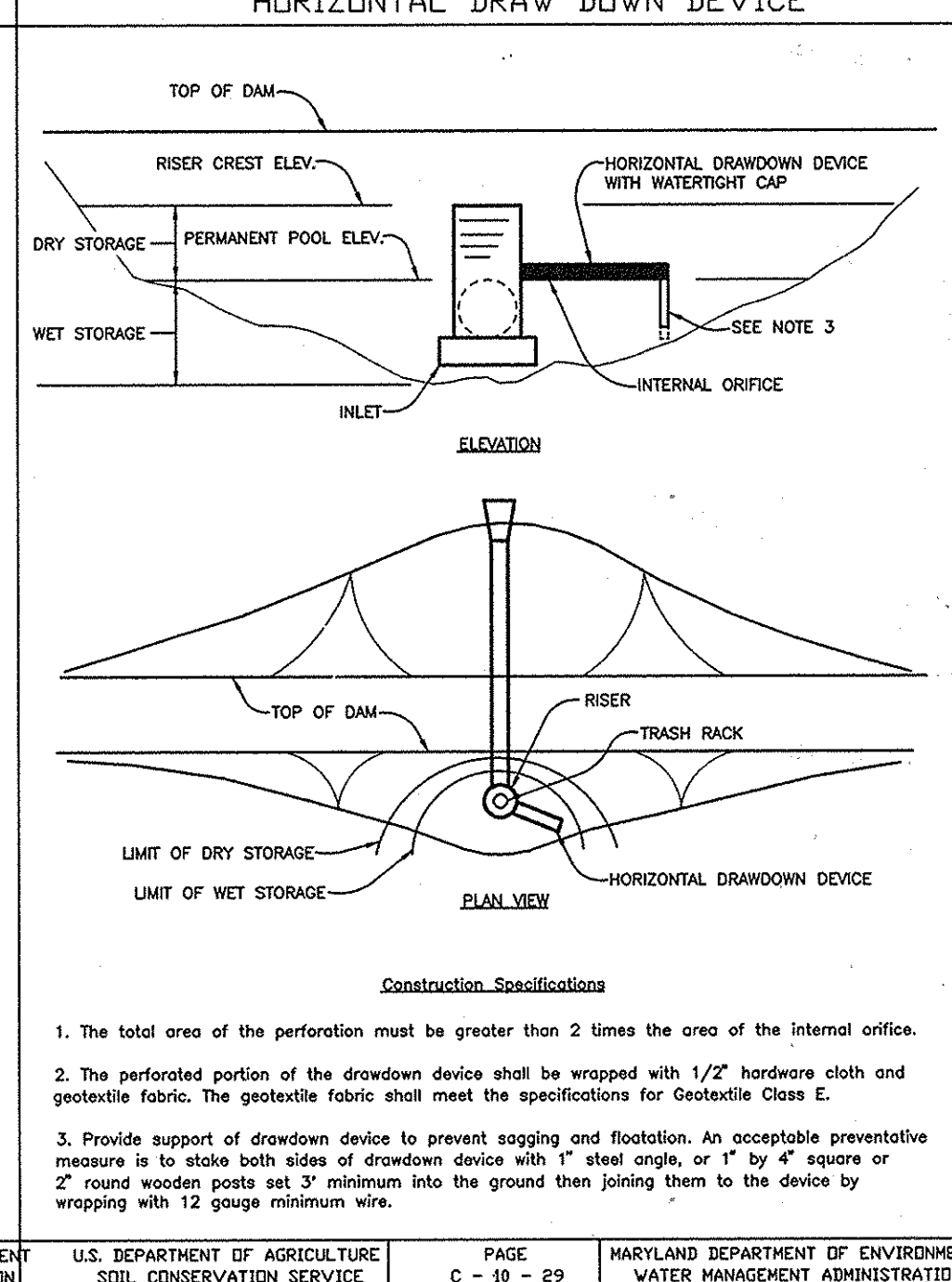
References: Guideline Specifications, Soil Preparation and Sodding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1979.

STORM INLET SEDIMENT TRAP ST-III



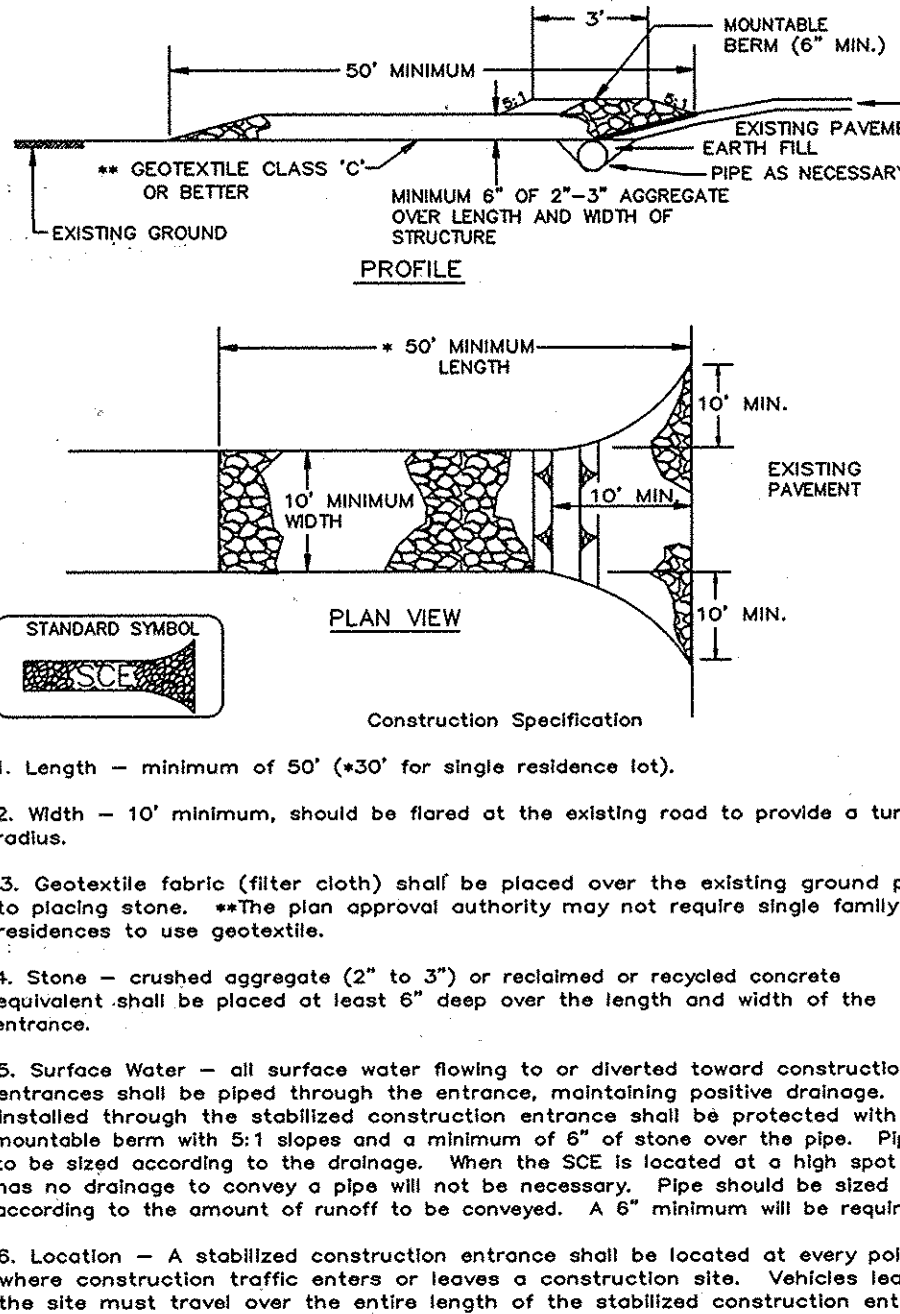
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE A-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

SEDIMENT TRAP AND BASIN DRAINAGE SCHEMATIC HORIZONTAL DRAW DOWN DEVICE



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE C-10-29 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

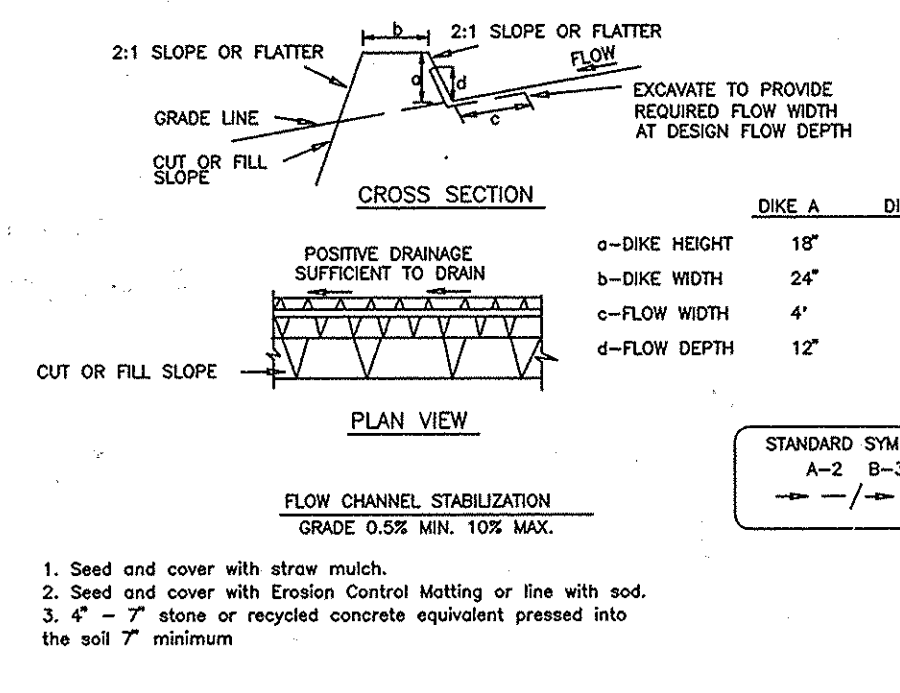


Construction Specifications

- Length - minimum of 50' (>30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- 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 protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel only on the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 1 - EARTH DIKE

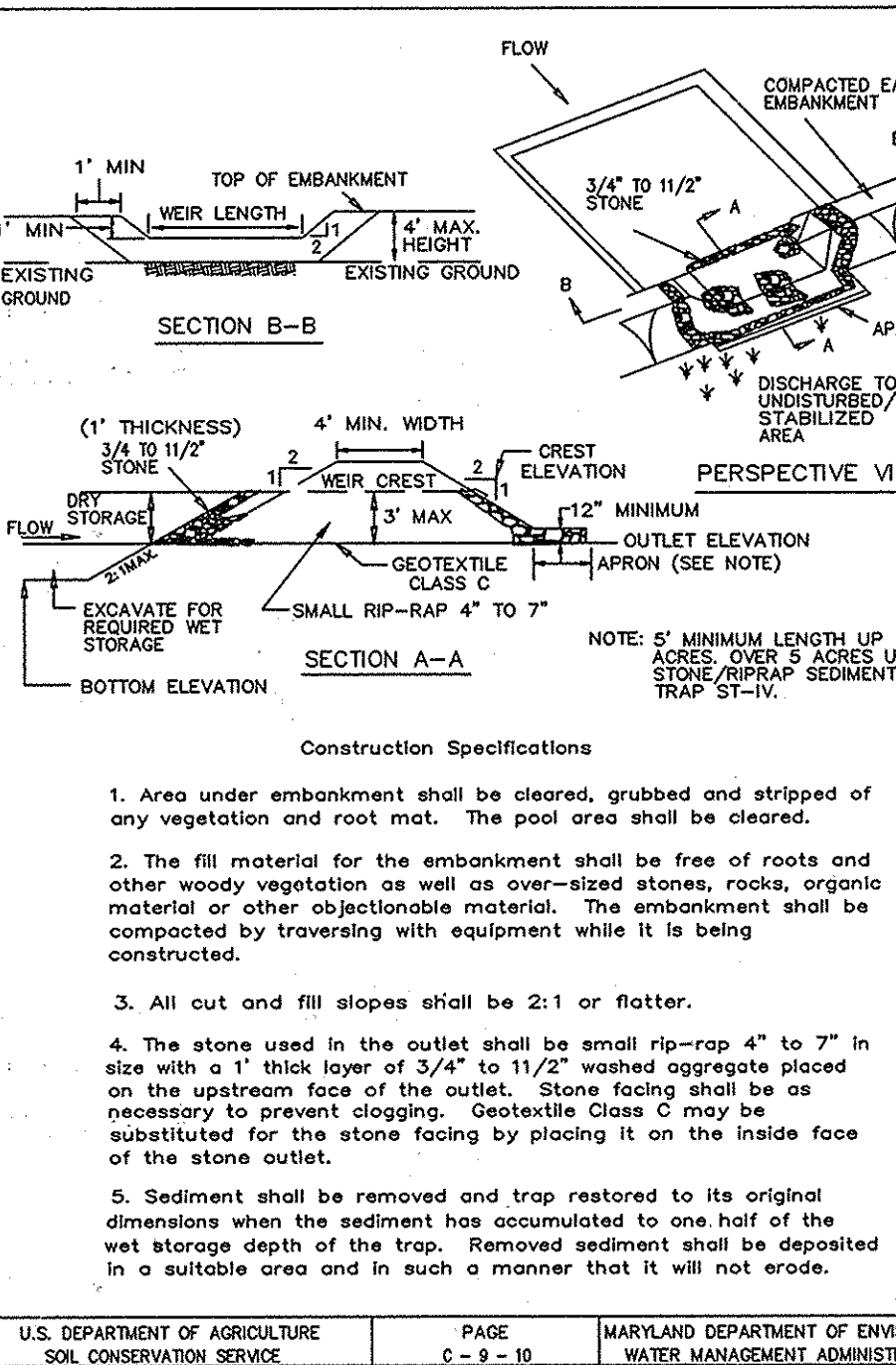


Construction Specifications

- All temporary earth dikes shall have undisturbed positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
- Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
- Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
- All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
- The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.
- Fill shall be compacted by earth moving equipment.
- All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
- Inspection and maintenance must be provided periodically and after each rain event.

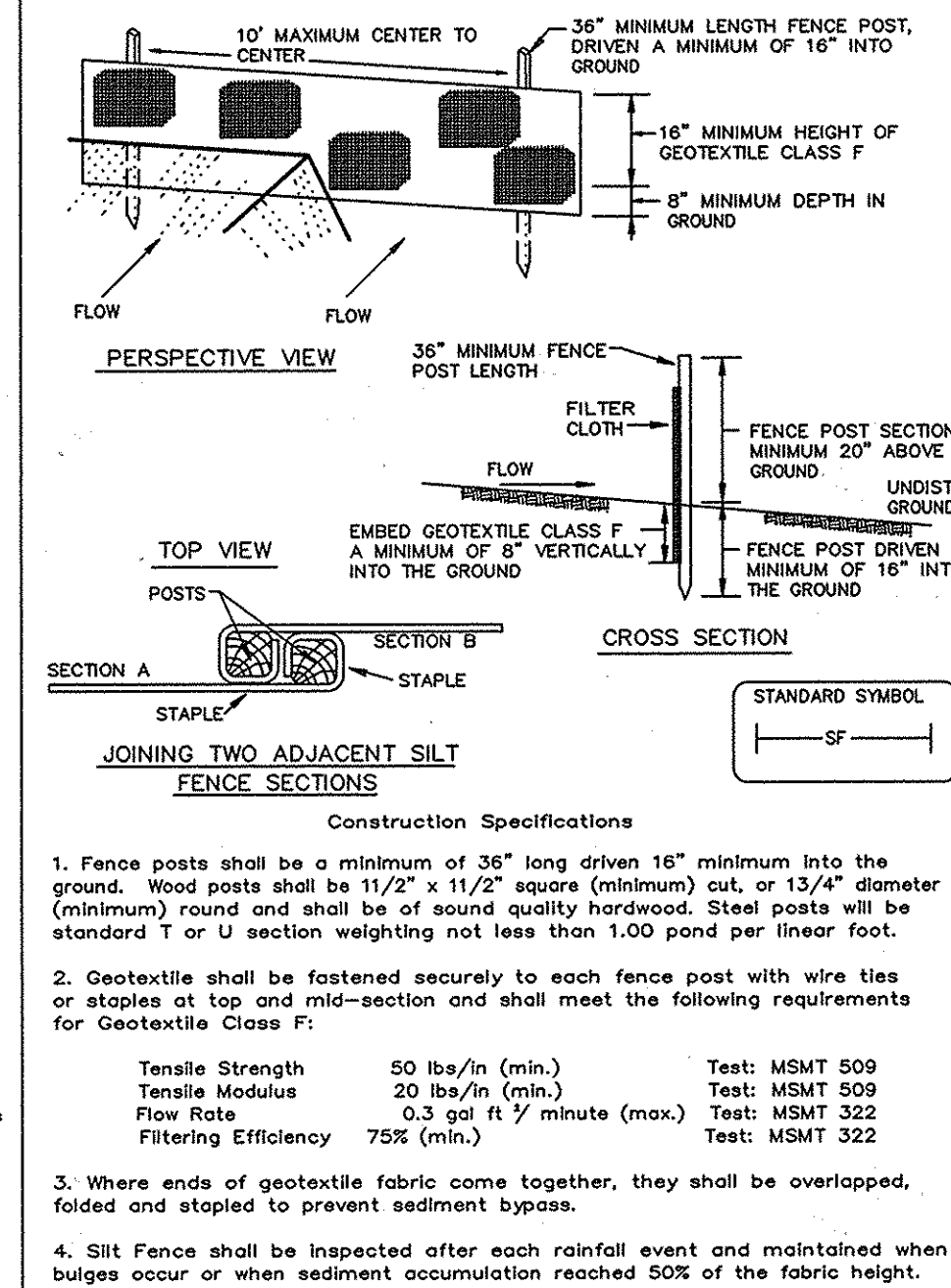
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE A-1-6 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE C-9-10 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE



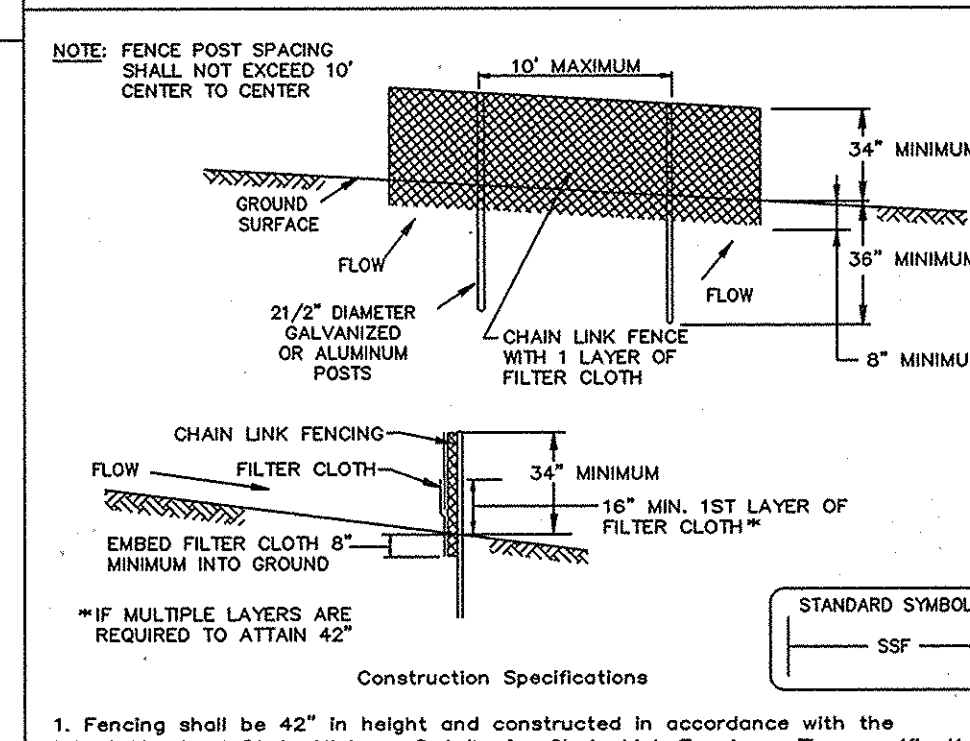
Construction Specifications

- Fence posts shall be a minimum of 3/4" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded or stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE



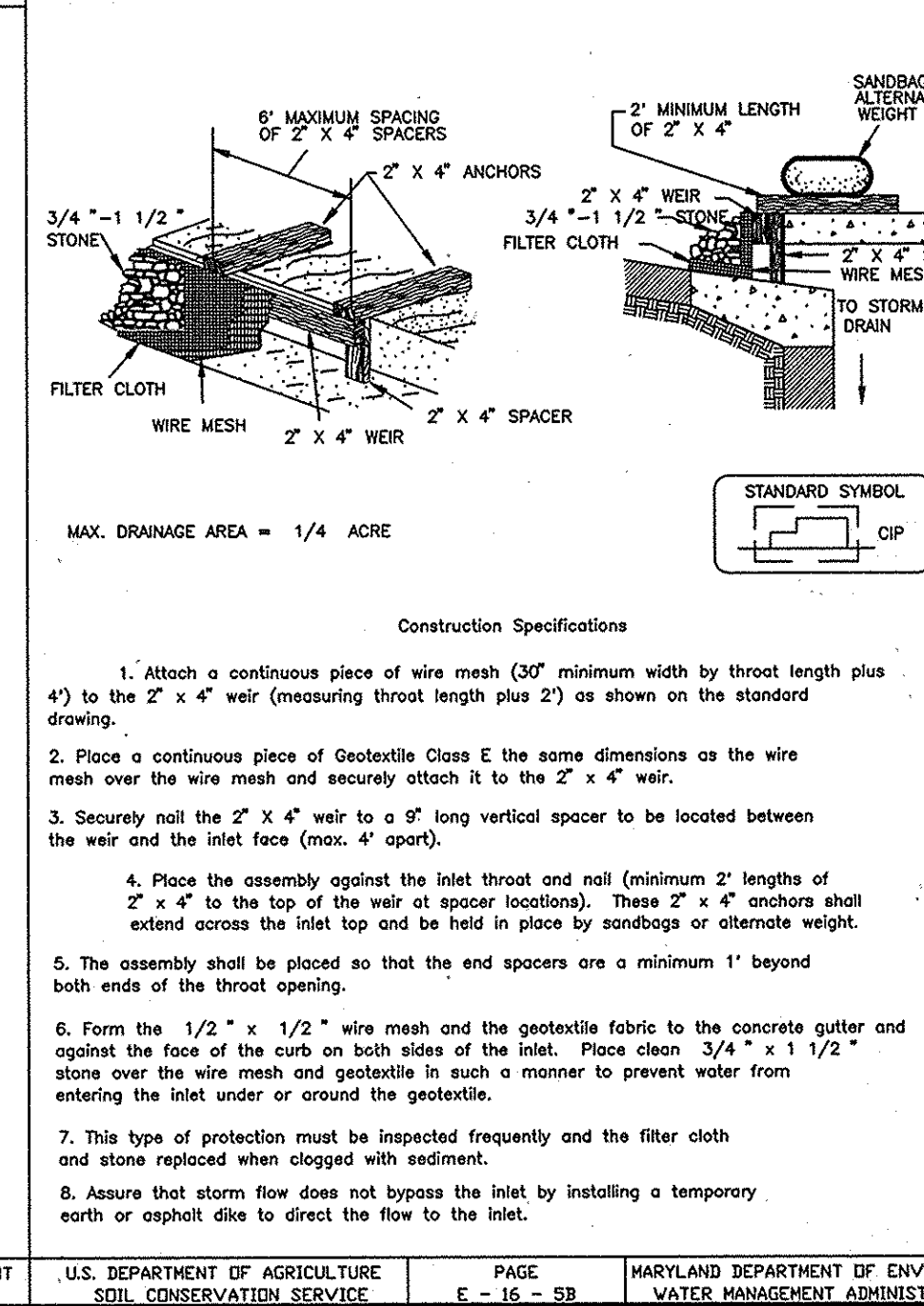
Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and all buildings removed when "bulges" develop in the silt fence, or when soil reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal/ft /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-26-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 23C - CURB INLET PROTECTION



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-16-5B MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

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.

Stewart L. D... 12-16-98 DEVELOPER DATE

BY THE ENGINEER:

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

Arthur E. Muegge 12-16-98 ENGINEER DATE

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

John R. Roberts 12/22/98 HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Richard Blonard 12/31/98 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

2-2-99 REVISOR: THE AREA DISTURBED, SITE ANALYSIS.

OWNER: MDS COMPANIES, 5550 STERRETT PLACE, COLUMBIA, MD 21044 (410) 730-9091

DEVELOPER: CARTER & ASSOCIATES, INC., 1215 PEACHTREE ST., N.E., ATLANTA, GA 30361 (404) 888-3316

PROJECT: STAYBRIDGE SUITES AN EXTENDED STAY HOTEL

AREA: COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1 AREA 2 PARCEL 406, TAX MAP 30, BLOCK 18, LOT 1-1 2nd ELECTION DISTRICT ZONED-FOR HOWARD COUNTY, MARYLAND

TITLE: DETAILS AND NOTES

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

DATE: _____ DESIGNED BY: C.R.

DRAWN BY: D.R.D.

CHECKED BY: C.R.

PROJECT NO: 98210 SDPS.DWG

DATE: DECEMBER 16, 1998

SCALE: AS SHOWN

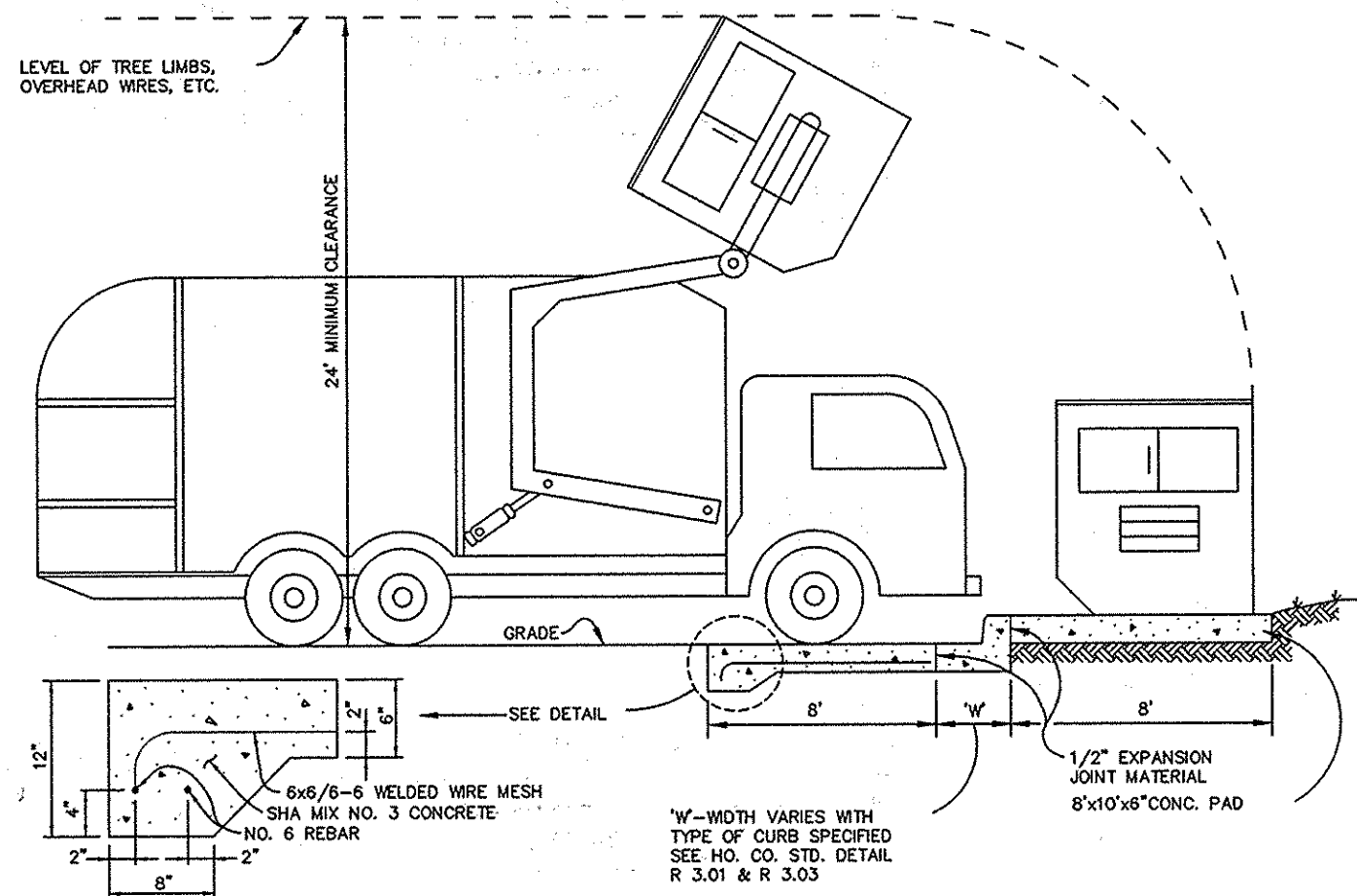
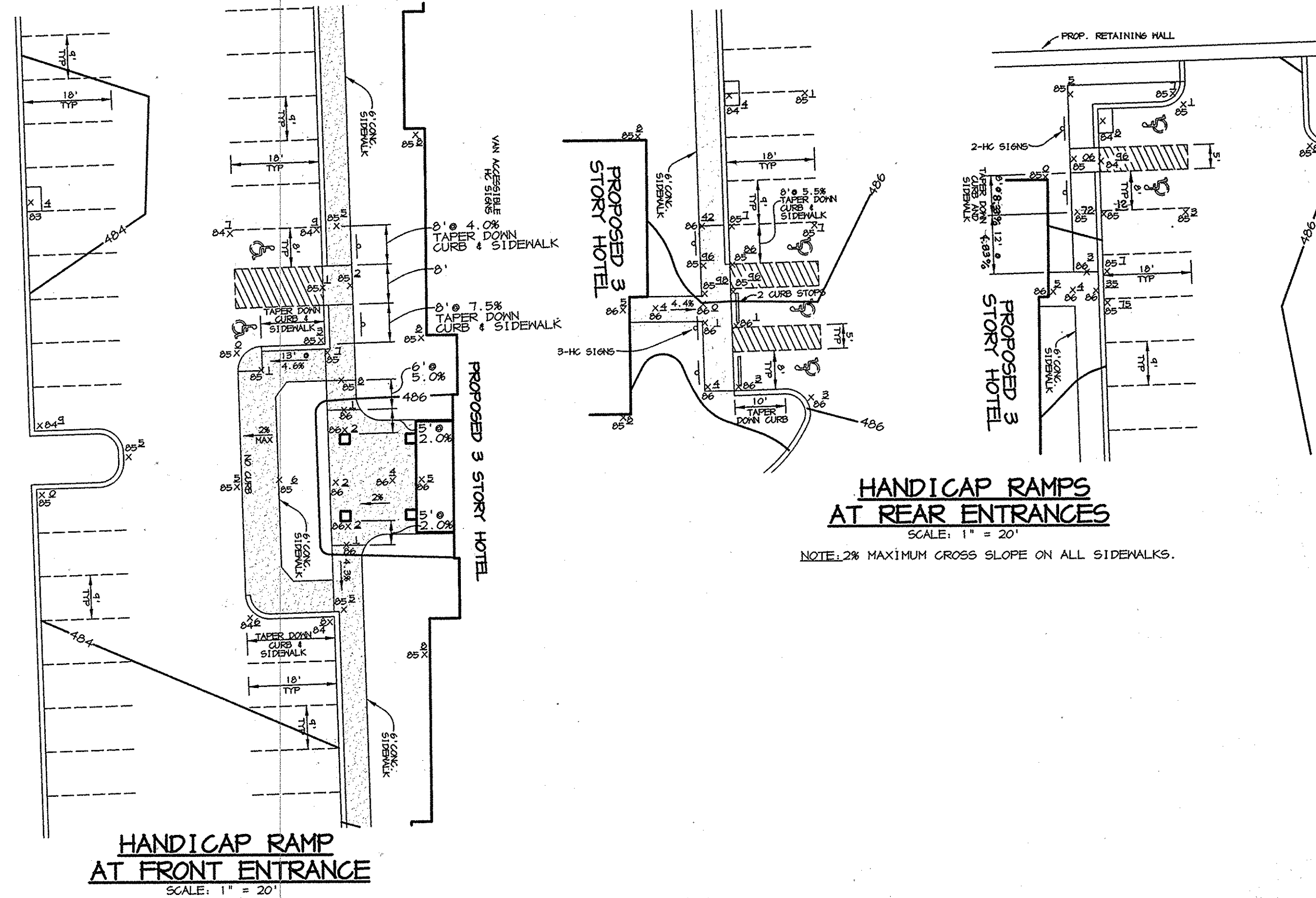
DRAWING NO. 5 OF 8

SDP-99-38

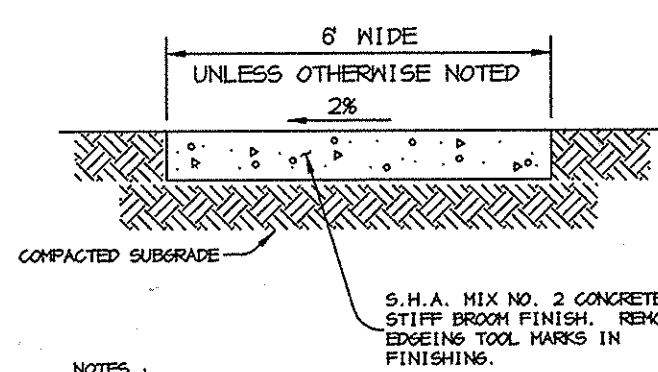
STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	5" COMB" IN RET GRATE	SEE PLAN	476.71 (12") 475.81 (24")	475.71 (24")	481.78	HOCO STD. DETAIL SD 4.32 & 4.93
I-2	"	SEE PLAN	477.79	477.64	482.38	HOCO STD. DETAIL SD 4.32 & 4.93
I-3	"	SEE PLAN	479.64 (15") 479.34 (18")	478.89 (24")	484.98	HOCO STD. DETAIL SD 4.32 & 4.93
I-4	"	SEE PLAN	480.36 (15") 480.21 (18")	480.11 (18")	485.38	HOCO STD. DETAIL SD 4.32 & 4.93
I-5	"	SEE PLAN	481.25	481.00	485.38	HOCO STD. DETAIL SD 4.32 & 4.93
I-6	5-INLET	SEE PLAN	481.77	481.67	485.10	HOCO STD. DETAIL SD 4.22
I-7	"	SEE PLAN	-	482.45	485.40	HOCO STD. DETAIL SD 4.22
I-8	"	SEE PLAN	481.12	481.02	485.10	HOCO STD. DETAIL SD 4.22
I-9	"	SEE PLAN	-	481.01	485.10	HOCO STD. DETAIL SD 4.22
I-10	"	SEE PLAN	481.17	481.07	485.10	HOCO STD. DETAIL SD 4.22
I-11	"	SEE PLAN	-	481.91	485.10	HOCO STD. DETAIL SD 4.22
I-12	5" COMB" IN RET GRATE	SEE PLAN	478.50	478.25	481.58	HOCO STD. DETAIL SD 4.32 & 4.93
I-13	"	SEE PLAN	-	480.15	483.98	HOCO STD. DETAIL SD 4.32 & 4.93
I-14	A-10	SEE PLAN	-	460.17	465.28	HOCO STD. DETAIL SD 4.02
M-1	4' MH	SEE PLAN	475.50 (18") 475.00 (24")	470.00 (24")	474.00	HOCO STD. DETAIL 6 5.12
M-2	4' MH	SEE PLAN	478.81 (24")	478.63 (24")	485.70	HOCO STD. DETAIL 6 5.12
M-3	4' MH	SEE PLAN	460.00 (18")	456.64 (EX.)	463.00	HOCO STD. DETAIL 6 5.12

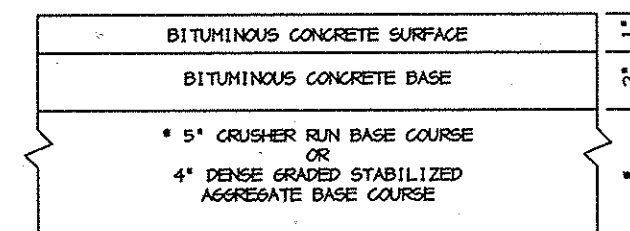
NOTES: * LOCATION OF "S" & "A" FACILITY INLETS AND MANHOLES IS AT CENTER OF TOP COVER; FOR "A" INLETS LOCATION IS GIVEN FOR CENTER OF THROAT OPENING AT FACE OF CURB; FOR END SECTIONS AND HEADWALLS THE LOCATION IS CENTER OF THROAT OPENING AT FACE OF STRUCTURE. TOP ELEVATION IS TOP OF CURB/GRATE/RIM.



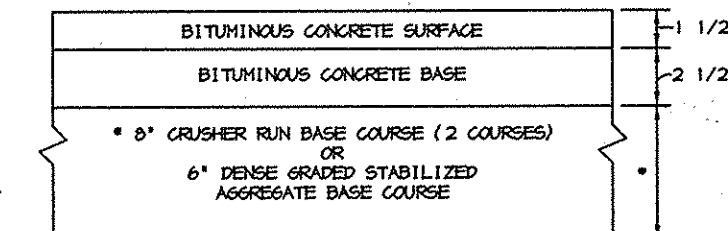
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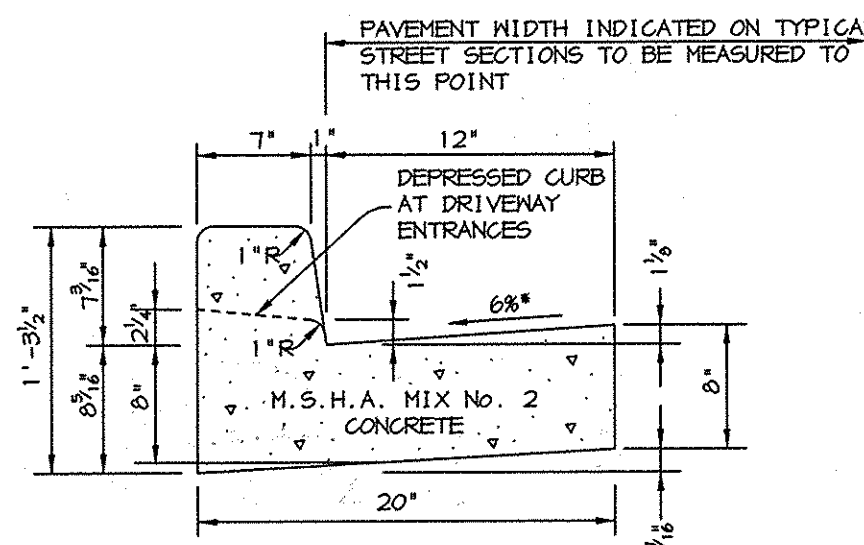
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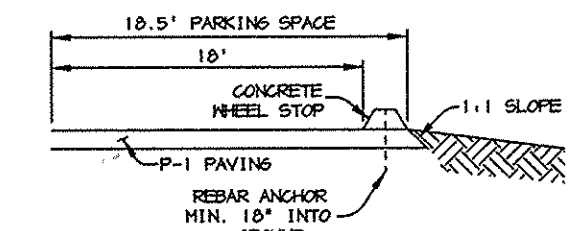
P-1 PAVING
NO SCALE



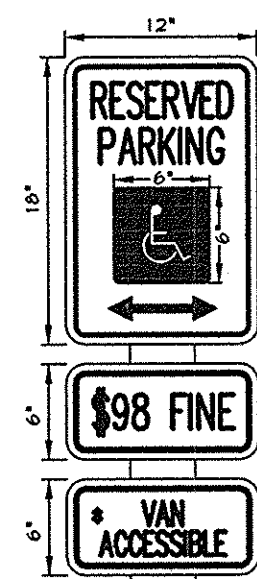
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NO SCALE



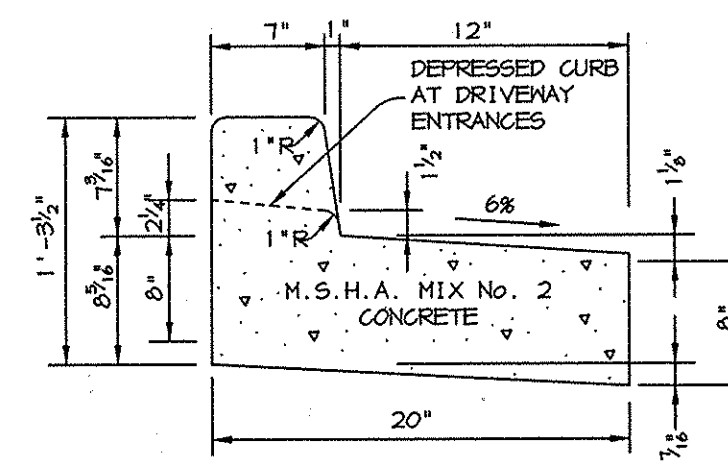
STANDARD 7\"/>



CONCRETE WHEEL STOP LOCATION PLAN
NO SCALE



HANDICAP SIGN DETAIL
NO SCALE



REVERSE 7\"/>

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

[Signature] DIRECTOR 1/16/99 DATE

[Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION 12/30/98 DATE

[Signature] CHIEF, DIVISION OF LAND DEVELOPMENT 12/30/98 DATE

3-17-99 ADJUSTED STRUCTURE SCHEDULE

OWNER: MDS COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 750-9091

DEVELOPER: CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30367 (404) 888-3316

PROJECT: **STAYBRIDGE SUITES**
AN EXTENDED STAY HOTEL

AREA: COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1, AREA 2
PARCEL 406, TAX MAP 30, BLOCK 10, LOT 1-1
2nd ELECTION DISTRICT ZONED-POR
HOWARD COUNTY, MARYLAND

TITLE: **DETAILS**

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

DATE: _____

DESIGNED BY: C.R.

DRAWN BY: D.R.D.

CHECKED BY: C.R.

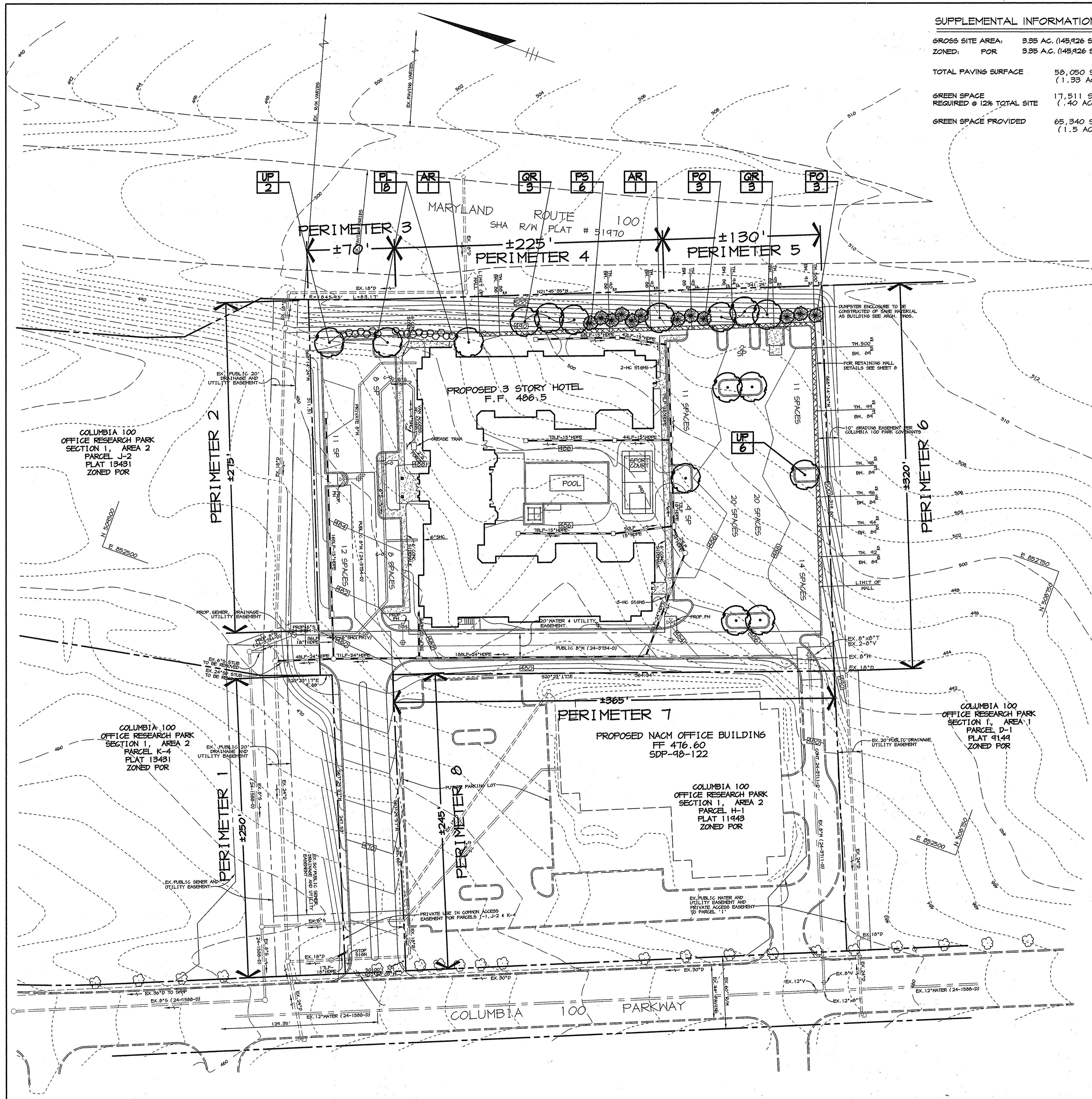
PROJECT NO: 98210
SDP6.DWG

DATE: DECEMBER 16, 1998

SCALE: AS SHOWN

DRAWING NO. 6 OF 8

[Signature] ARTHUR E. MUEGGE #8707



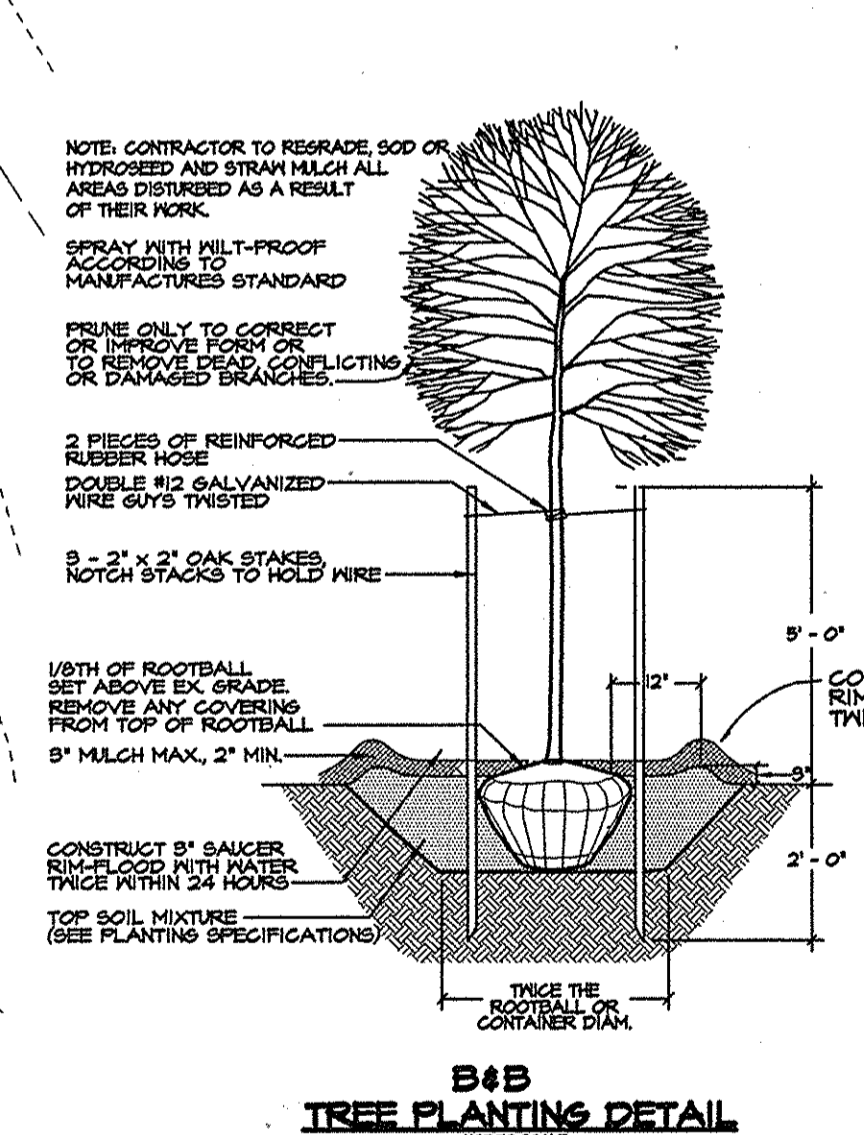
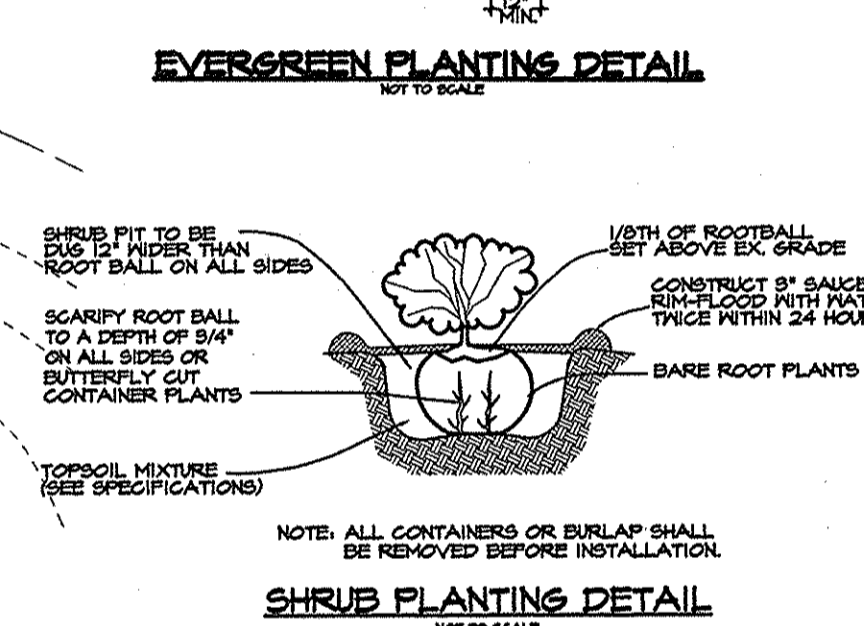
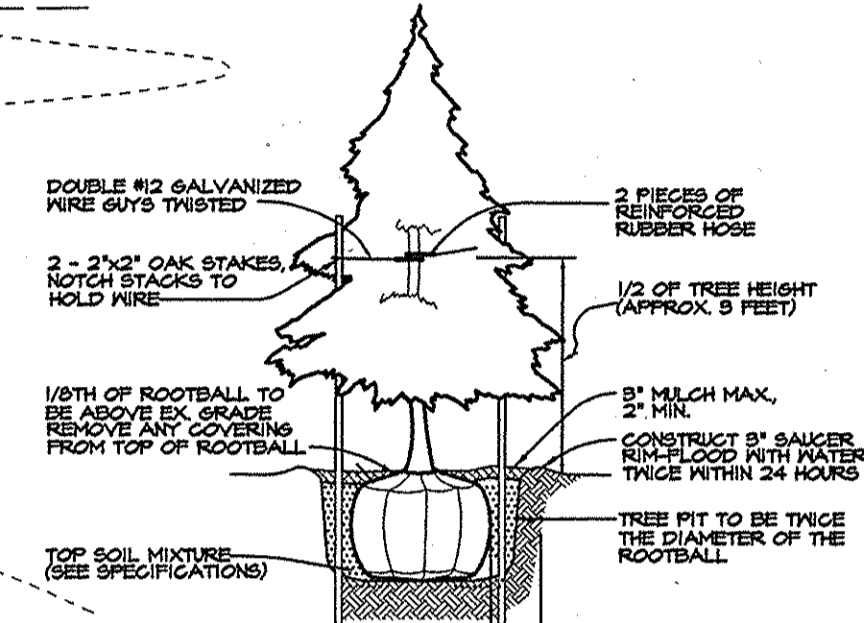
SUPPLEMENTAL INFORMATION

GROSS SITE AREA:	9.95 AC. (145,926 SF)
ZONED:	FOR 9.95 AC. (145,926 SF)
TOTAL PAVING SURFACE:	58,050 SF (1.33 AC)
GREEN SPACE REQUIRED @ 12% TOTAL SITE:	17,511 SF (.40 AC)
GREEN SPACE PROVIDED:	65,340 SF (1.5 AC)

PERIMETER	ADJACENT TO PERIMETER PROPERTIES					ADJACENT TO ROADWAYS		
	1	2	6	7	8	3	4	5
LANDSCAPE TYPE	* N/A	* N/A	* N/A	* N/A	* N/A	E	B	E
LINEAR FEET OF ROADWAY FRONTAGE/ PERIMETER	±250'	±275'	±320'	±365'	±245'	±10'	±225'	±130'
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	N/A	N/A	N/A	N/A	N/A	NO	NO	NO
CREDIT FOR WALL, FENCE OR BERM (YES, NO, LINEAR FEET) (DESCRIBE BELOW IF NEEDED)	N/A	N/A	N/A	N/A	N/A	NO	NO	NO
NUMBER OF PLANTS REQUIRED								
SHADE TREES	N/A	N/A	N/A	N/A	N/A	01/40'±2	01/50'±5	01/40'±3
EVERGREEN TREES						01/4'±18		01/4'±33
SHRUBS								
NUMBER OF PLANTS PROVIDED								
SHADE TREES	N/A	N/A	N/A	N/A	N/A	2	5	3
EVERGREEN TREES						18		
SMALL FLOWERING TREES								
SHRUBS								

* ACCORDING TO PAGE 17 OF THE HOWARD COUNTY LANDSCAPE MANUAL, "THE REGULATIONS DO NOT REQUIRE LANDSCAPE EDGES, BUFFERING OR SCREENING BETWEEN INTERNAL LOTS OR PARCELS WITHIN THE SAME DEVELOPMENT."

SUBSTITUTION NOTES:
 PERIMETER 5:
 6 EVERGREEN TREES WERE SUBSTITUTED FOR 33 SHRUBS.



- NOTES:**
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE WITH THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 - "FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPM DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$714,622.
 - THIS PLAN IS FOR LANDSCAPING PURPOSES ONLY.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.

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.

Stewart Lell
 NAME
 12-16-98
 DATE

PARKING LOT INTERNAL LANDSCAPING

PARKING LOT	ALL
NUMBER OF PARKING SPACES	126
NUMBER OF SHADE TREES/ISLANDS* REQUIRED (1/20 SPACES)	6
NUMBER OF TREES PROVIDED	6
SHADE TREES	6
OTHER TREES (2:1 SUBSTITUTION)	0
NUMBER OF ISLANDS REQUIRED	6
NUMBER OF ISLANDS PROVIDED	6

* 200 SF PLANTING AREA / ISLAND

PLANT MATERIAL LIST

KEY	QTY	BOTANICAL & COMMON NAME	SIZE	ROOT	REMARKS
SHADE TREES					
AR	2	Acer rubrum 'October Glory'	2 1/2" - 3" Cal.	B + B	Full Crown Central Leader
GR	6	Quercus rubra (bornealis)	2 1/2" - 3" Cal.	B + B	Full Crown Central Leader
UP	8	Ulmus parvifolia 'Alles'	2 1/2" - 3" Cal.	B + B	Full Crown Central Leader
EVERGREEN TREES					
PO	6	Picea americana	6" - 8" Ht.	B + B	Full Form Central Leader
PS	6	Pinus strobus	6" - 8" Ht.	B + B	Sheared Full Form
SHRUBS					
PL	18	Prunus lauro 'Oto Laykan'	3 1/2" - 4" Ht.	B + B	Full shape

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Director: *[Signature]* 1/14/99 DATE

Chief, Development Engineering Division: *[Signature]* 1/21/99 DATE

Chief, Division of Land Development: *[Signature]* 12/31/98 DATE

DATE	NO.	REVISION

OWNER: MD&C COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 730-9091

DEVELOPER: CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30361 (404) 888-3316

PROJECT: STAYBRIDGE SUITES AN EXTENDED STAY HOTEL

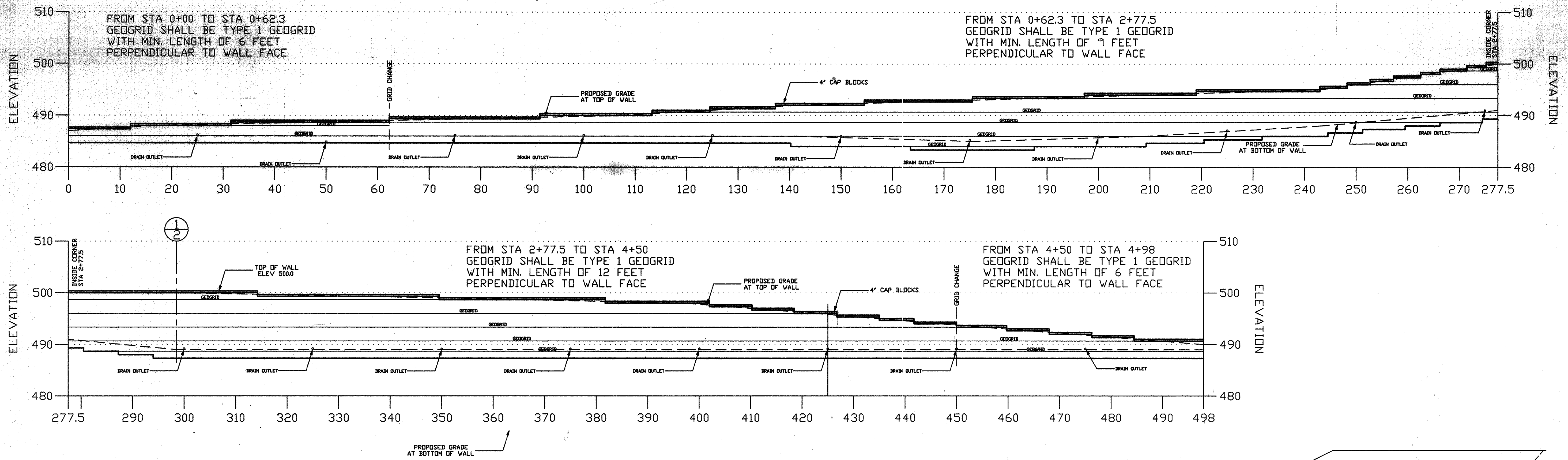
AREA: COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1, AREA 2 PARCEL 406, TAX MAP 30, BLOCK 18, LOT 1-1 2nd ELECTION DISTRICT ZONED-POR HOWARD COUNTY, MARYLAND

TITLE: LANDSCAPE PLAN

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

DESIGNED BY: D.T.D.
 DRAWN BY: A.J.L.
 CHECKED BY: D.T.D.
 PROJECT NO: 98210 LSCP.DWG
 DATE: DECEMBER 16, 1998
 SCALE: 1"=40'
 DRAWING NO. 7 OF 8

12-16-98 DATE
 830
 DAVID T. DOWS #830



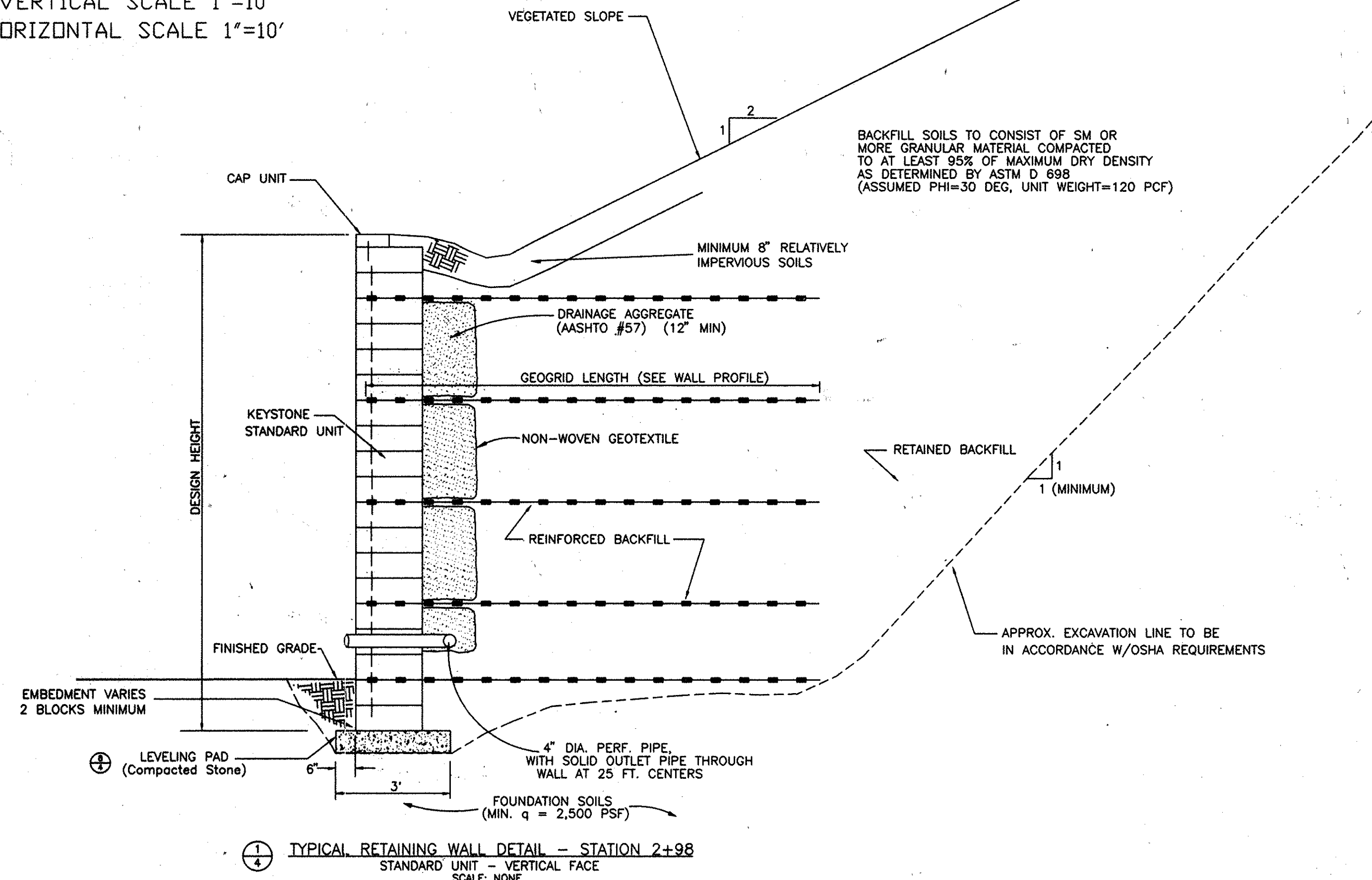
**SPECIFICATION GUIDELINES
KEYSTONE CONCRETE MODULAR RETAINING WALL**

- 1.01 DESCRIPTION**
- A. Work includes furnishing and installing modular block retaining wall units to the lines and grades designated on the construction drawings and as specified herein.
- B. Work includes preparing foundation soil, furnishing and installing leveling pad, unit fill and backfill to the lines and grades designated on the construction drawings.
- C. Furnishing and installing all appurtenant materials required for construction of the retaining wall as shown on the construction drawings.
- 1.02 RELATED WORK**
- A. Section 02275 - Geogrid Soil Reinforcement.
- 1.03 REFERENCE STANDARDS**
- A. ASTM C90-85 - Hollow Load Bearing Masonry Units.
- B. ASTM C140-75 - Sampling and Testing Concrete Masonry Units.
- C. ASTM C145-85 - Solid Load Bearing Concrete Masonry Units.
- 1.04 DELIVERY, STORAGE AND HANDLING**
- A. Contractor shall check the materials upon delivery to assure that proper material has been received.
- B. Contractor shall prevent excessive mud, wet cement, epoxy and the materials which may effloresce, from coming in contact with the materials.
- C. Contractor shall protect the materials from damage. Damaged materials shall not be incorporated into the retaining wall structure.
- 1.05 SUBMITTALS**
- A. Samples of all products used in the work of this section.
- B. Latest edition of manufacturers specifications for proposed materials, method of installation and list of material proposed for use.
- 1.06 QUALITY ASSURANCE**
- A. Soil testing and inspection service for quality control testing during earthwork operations will be supplied by the owner.
- PART 2: PRODUCTS**
- 2.01 CONCRETE UNITS**
- A. Masonry units shall be Keystone® Retaining Wall Units as manufactured by _____.
- B. Concrete wall units shall have a minimum net 28 day compressive strength of 3000 psi. The concrete shall have a maximum moisture absorption of 6 to 8 percent.
- C. Exterior dimensions may vary in accordance with ASTM C90-85. Standard and Compex units shall have a minimum of 1 square foot face area each. Mini units shall have a minimum 1/2 square foot face area each.
- D. Keystone Standard units shall provide a minimum of 150 psi of wall face area. Fill which is contained within the dimensions of the units may be considered as 80% effective weight.
- 2.02 FOUNDATION SOIL PREPARATION**
- A. Foundation soil shall be excavated as required for footing dimensions shown on the construction drawings, or as directed by the Engineer.
- 2.03 ACCEPTABLE MANUFACTURERS**
- A. A manufacturer's product shall be approved by the Engineer prior to bid opening.

GEOGRID SOIL REINFORCEMENT

- PART 1: GENERAL**
- 1.01 DESCRIPTION**
- A. Work includes furnishing and installing geogrid reinforcement, wall fill, and backfill to the lines and grades designated on the construction drawings.
- B. Foundation soil shall be examined by the Engineer to assure that the actual foundation soil strength meets or exceeds assumed design strength. Soil not meeting required strength shall be removed and replaced with acceptable material.
- C. Depreciated areas shall be filled with approved compacted backfill material.
- 2.02 RELATED WORK**
- A. Section 02275 - KEYSTONE CONCRETE MODULAR RETAINING WALL.
- 1.02 RELATED WORK**
- A. Section 02275 - KEYSTONE CONCRETE MODULAR RETAINING WALL.
- 1.03 REFERENCE STANDARDS**
- A. See specific geogrid manufacturers reference standards.
- 1.04 DELIVERY, STORAGE AND HANDLING**
- A. Contractor shall check the geogrid upon delivery to assure that the proper material has been received.
- B. Geogrids shall be stored above -20°F.
- C. Contractor shall prevent excessive mud, wet cement, epoxy and the materials which may effloresce, from coming in contact with the geogrid material.
- D. Rolled geogrid material may be laid flat or stood on end for storage.
- 1.05 SUBMITTALS**
- A. Samples of all products used in the work of this section.
- B. Latest edition of manufacturers specifications for proposed materials, method of installation and list of material proposed for use.
- 1.06 QUALITY ASSURANCE**
- A. Soil testing and inspection service for quality control testing during earthwork operation will be supplied by the owner.
- PART 2: PRODUCTS**
- 2.01 DEFINITIONS**
- A. Geogrid products shall be high density polyethylene, expanded sheet or polyester woven fiber materials, specifically fabricated for use as soil reinforcement.
- B. Concrete retaining wall units are as detailed on the drawings and are specified under Section 02275 - KEYSTONE CONCRETE MODULAR RETAINING WALL.
- C. Wall fill is a free draining granular material used within the concrete unit.
- D. Backfill is the soil which is used as fill for the reinforced soil mass.
- E. Foundation soil is the in situ soil.
- 2.02 GEOGRID**
- A. Geogrid shall be the type as shown on the drawings having the property requirements as described within the manufacturers specifications.
- 2.03 ACCEPTABLE MANUFACTURERS**
- A. A manufacturer's product shall be approved by the Engineer prior to bid opening.

SCALE
VERTICAL SCALE 1"=10'
HORIZONTAL SCALE 1"=10'



④ TYPICAL RETAINING WALL DETAIL - STATION 2+98
STANDARD UNIT - VERTICAL FACE
SCALE: NONE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Richard Blood 1/4/98 DATE
DIRECTOR

Richard Blood 12/16/98 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION
/CHIEF, DIVISION OF LAND DEVELOPMENT

DATE NO.	REVISION
OWNER:	DEVELOPER:
MD6 COMPANIES 5550 STERRETT PLACE COLUMBIA, MD 21044 (410) 750-4091	CARTER & ASSOCIATES, INC. 1275 PEACHTREE ST., N.E. ATLANTA, GA 30367 (404) 888-9916
PROJECT:	STAYBRIDGE SUITES AN EXTENDED STAY HOTEL
AREA:	COLUMBIA 100 OFFICE RESEARCH PARK SECTION 1, AREA 2 PARCEL 406, TAX MAP 30, BLOCK 18, LOT 1-1 2nd ELECTION DISTRICT ZONED-POR HOWARD COUNTY, MARYLAND
TITLE:	RETAINING WALL PROFILES AND DETAILS PLAN
ENGINEERING CONSULTING SERVICES, LTD. 1340 CHARNWOOD ROAD, SUITE F HANOVER, MD 21076 410-829-4300	

NOTES:

- A. THE PROPOSED CONSTRUCTION OF ALL RETAINING WALLS SHALL BE PERFORMED UNDER THE OBSERVATION OF A MARYLAND REGISTERED PROFESSIONAL ENGINEER.
- B. BEARING SOIL SHALL BE EXAMINED BY THE ENGINEER TO ASSURE THAT THE ACTUAL FOUNDATION SOIL STRENGTH MEETS OR EXCEEDS ASSUMED DESIGN STRENGTH.

12-15-98
DATE

DESIGNED BY: C.R.
DRAWN BY: D.R.D.
CHECKED BY: C.R.
PROJECT NO: 98210
SDF1.DWG
DATE: DECEMBER 16, 1998
SCALE: AS SHOWN
DRAWING NO. 8 OF 8

David K. Porter
DAVID K. PORTER # 23109

SDP-99-38