

SITE DEVELOPMENT PLAN

FOOD LION P-3000

GROCERY STORE

6th ELECTION DISTRICT

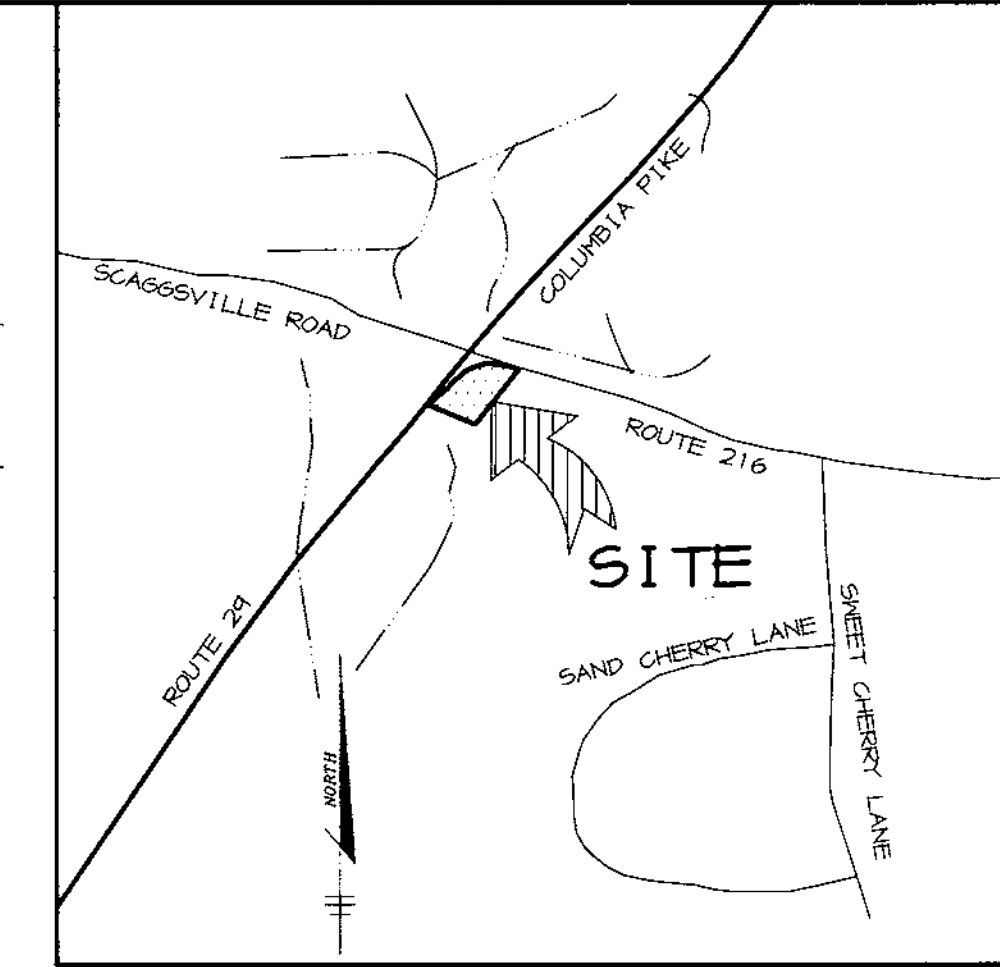
HOWARD COUNTY, MARYLAND

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GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOC. DATED OCTOBER, 1998.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. STATION NUMBERS 46BA AND 46E3 WERE USED.
- WATER IS PUBLIC, CONTRACT NO. 24-3758-D
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATUXENT TREATMENT PLANT; LITTLE PATUXENT WWTP CONTRACT NO. 24-3758-D
- STORMWATER MANAGEMENT IS PROVIDED BY THE PROPOSED STATE HIGHWAY ADMINISTRATION'S OFF-SITE FACILITY VIA AN AGREEMENT BETWEEN SHA AND THE DEVELOPER.
- 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.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PERFORMED BY STREET TRAFFIC STUDIES, LTD. AND IS DATED
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A GEOTECHNICAL STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PERFORMED BY RIEMER MUEGGE & ASSOCIATES, INC. DATED
- SUBJECT PROPERTY ZONED B-2 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S SDP-97-70, F-99-196.
- 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.
- 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.
- 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 T188.
- THERE ARE NO WETLANDS ON-SITE FOR THIS PROJECT BASED ON A FIELD INSPECTION.
- PARCELS 240 AND 45 WERE CONSOLIDATED VIA DEED L3671 F.240. A SUBDIVISION PLAT WILL BE RECORDED TO LEGALLY CONSOLIDATE THE PARCELS.
- PROPER ABANDONMENT OF ALL EXISTING WELL AND OPTIC SYSTEMS TO BE COMPLETED PRIOR TO START OF GRADING. DOCUMENTATION TO BE SUBMITTED TO THE HEALTH DEPARTMENT FOR SAKE.
- THE FOREST CONSERVATION ORDINANCE HAS BEEN COMPLIED WITH IN ACCORDANCE WITH SECTION 16.1210 FEE-IN-LIEU. SEE F-99-196 PLAT # 14010.

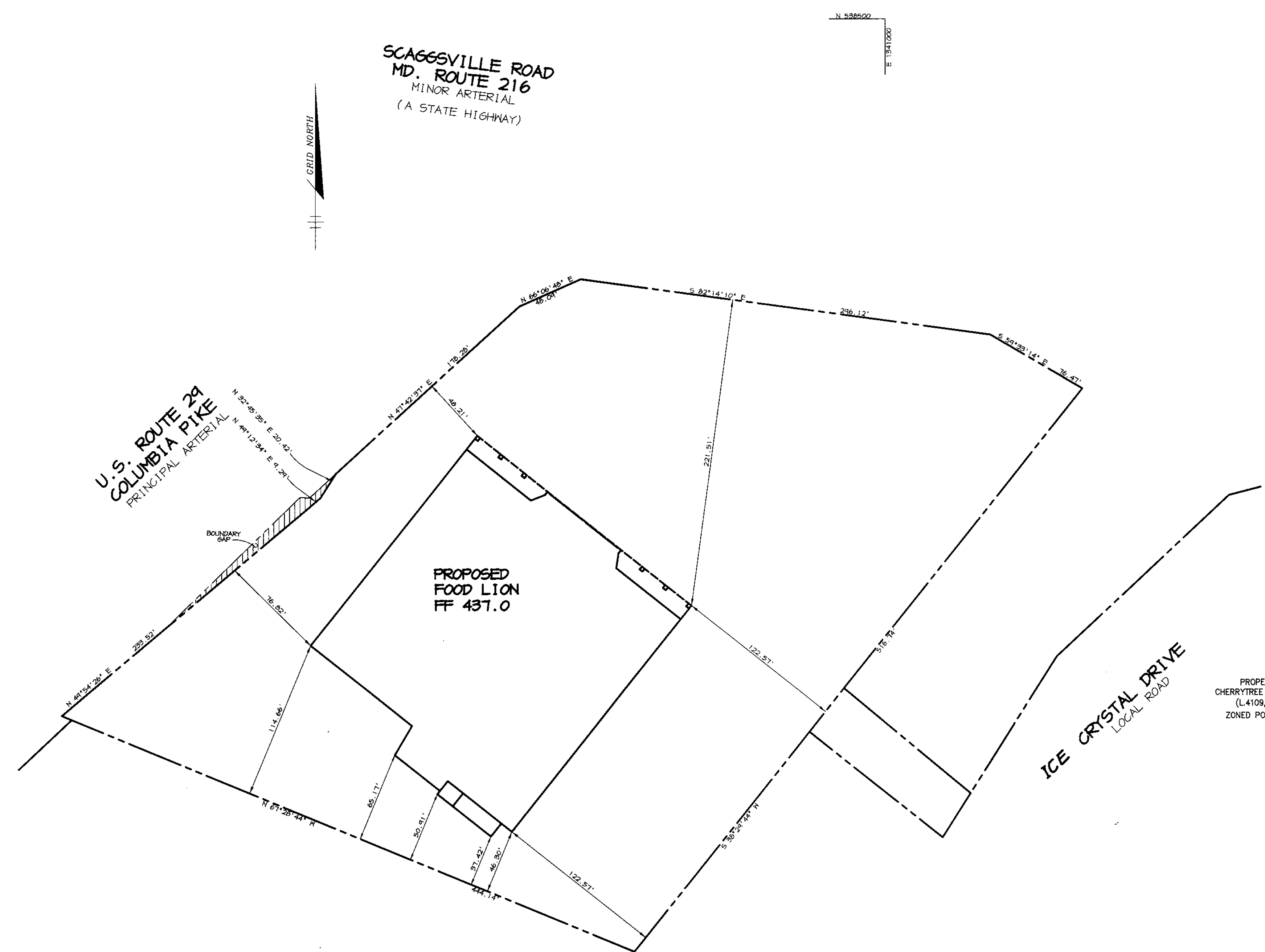


VICINITY MAP
SCALE: 1" = 2000'

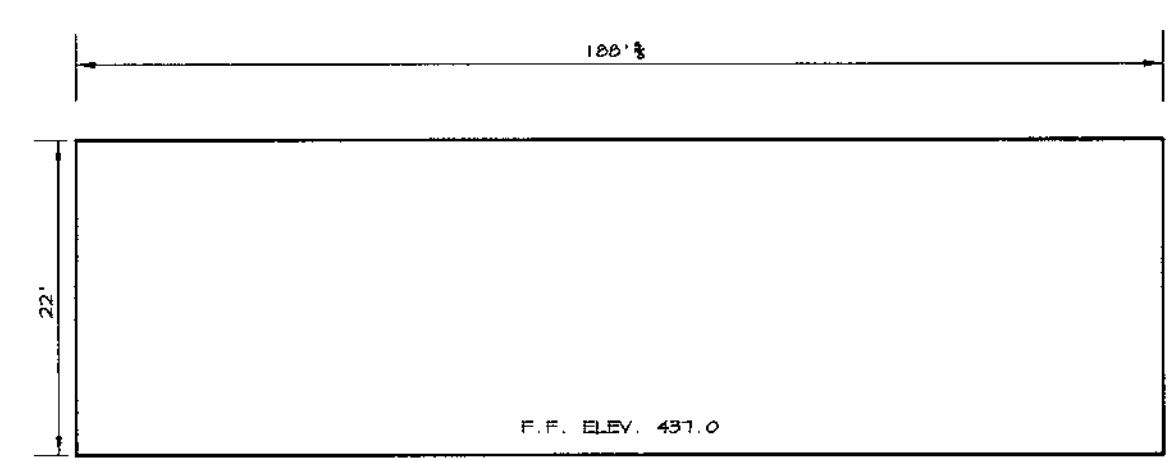
BENCHMARKS
 HO. CO. SURVEY CONTROL STATION: 46BA
 N 537,546 E 1,339,849
 HO. CO. SURVEY CONTROL STATION: 46E3
 N 535611 E 1,337,928

SITE ANALYSIS

AREA OF SITE	4.8280 ACRES (210,308 SF)
DISTURBED AREA	6.10 ACRES (265,716 SF)
PRESENT ZONING	B-2
PROPOSED USE	GROCERY/RETAIL
BUILDING COVERAGE (GROCERY STORE)	
GROSS FLOOR AREA	38,714 SF, NET LEASABLE 33,000 SF
# OF PARKING SPACES REQUIRED @ 5.0 SP/1000 SF	194 SPACES
# OF PARKING SPACES PROVIDED	199 SPACES
PAVED AREA	109,273 SF (52% OF SITE)



PLAN
SCALE: 1" = 50'



NOTE: SEE ARCHITECTURAL DRAWINGS FOR COMPLETE BUILDING DETAILS AND ELEVATIONS.

BUILDING ELEVATION
NO SCALE

PROPERTY OF CHERRYTREE PARK L.L.C. (L4109, F.554)
ZONED POR-MXD-6
PROPOSED AS A NON-RESIDENTIAL USE

PROPERTY OF CHERRYTREE PARK L.L.C. (L4109, F.554)
ZONED POR-MXD-6

ADDRESS CHART

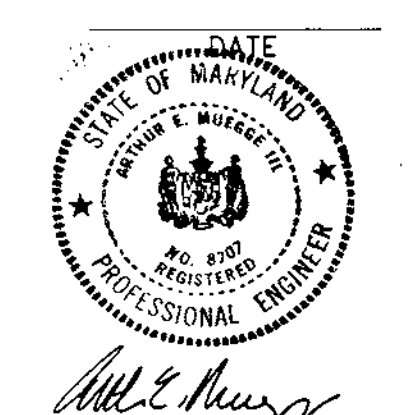
PARCEL	STREET ADDRESS
A	8300 ICE CRYSTAL DRIVE

SUBDIVISION NAME: FOOD LION P-3000		SECT./AREA: 240	PARCEL: 240
RECORDED: PLAT # 14010 F-99-196	BLOCK # 4	ZONE: B-2	TAX MAP NO.: 46
DATE: 11/15/99		ELECT. DIST.: 5th	CENSUS TRACT: 6068.02
WATER CODE: E18		SEWER CODE: 7602000	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	11/30/99
<i>Dina M. M... MRO</i>	DATE
COUNTY HEALTH OFFICER	
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	12/2/99
<i>James S. ...</i>	DATE
DIRECTOR	
<i>Arthur E. Muegge</i>	11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Chris Hamilton</i>	12/1/99
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

DATE	NO.	REVISION
OWNER / DEVELOPER		
ASTON PROPERTIES 6525 MORRISON BLVD. SUITE 300 CHARLOTTE, NC 28211 (704) 366-7937		
PROJECT		
FOOD LION P-3000		
AREA		
PARCEL A PARCEL 240 TAX MAP 46, BLOCK 4 5th ELECTION DISTRICT ZONED B-2 HOWARD COUNTY, MARYLAND		
TITLE		
TITLE SHEET		

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 tel 410.947.8900 fax 410.947.9282



DATE: 11/15/99

DESIGNED BY: C.J.R.

DRAWN BY: DRD

PROJECT NO: 98372

SDP1.DWG

DATE: NOVEMBER 4, 1999

SCALE: AS SHOWN

DRAWING NO. 1 OF 10

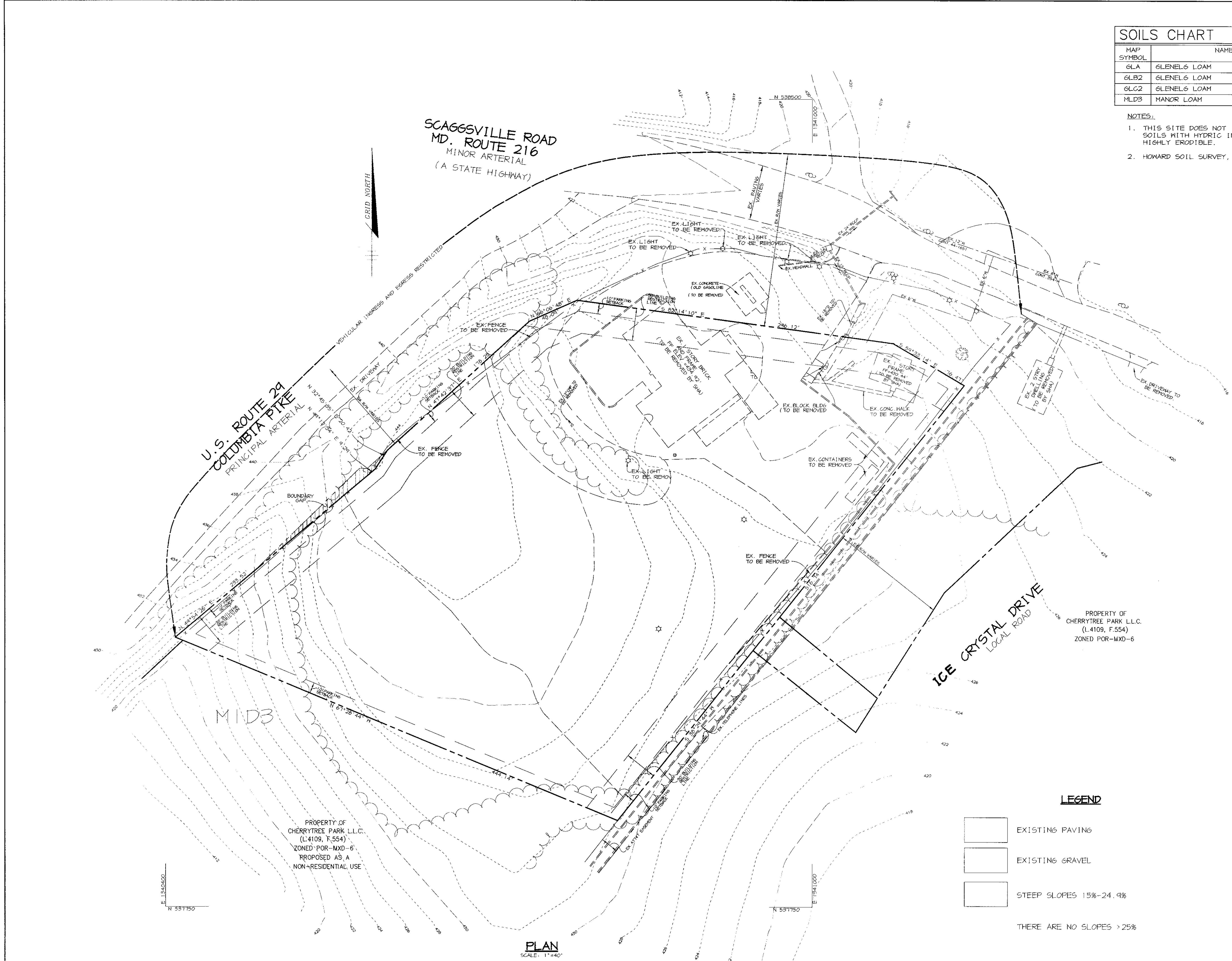
ARTHUR E. MUEGGE #8707

M:\PROJECTS\98372\SDP1.DWG Mon Aug 09 13:10:17 1999 RIEMER MUEGGE & ASSOCIATES, INC.

SOILS CHART				
MAP SYMBOL	NAME	TYPE	SLOPE (%)	EROSION POTENTIAL
6LA	GLENEL6 LOAM	B	0-3	-
6LB2	GLENEL6 LOAM	B	3-8	MODERATE
6LC2	GLENEL6 LOAM	B	8-15	MODERATE
MLD3	MANOR LOAM	B	15-25	SEVERE

NOTES:

- THIS SITE DOES NOT INCLUDE SOILS DESIGNATED AS HYDRIC OR SOILS WITH HYDRIC INCLUSIONS. SOILS ARE NOT CLASSIFIED AS HIGHLY ERODIBLE.
- HOWARD SOIL SURVEY, MAP NUMBER 23



X:\PROJECTS\1997\SDP2.DWG Mon Aug 09 13:45:23 1999 RIEMER MUEGGE & ASSOCIATES, INC.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Dina Matar 11/30/99
 COUNTY HEALTH OFFICER *HM* DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Frank Butler 12/8/99
 DIRECTOR DATE

Chris Deussen 11/15/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 12/7/99
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE	NO.	REVISION

OWNER / DEVELOPER
 ASTON PROPERTIES
 6525 MORRISON BLVD. SUITE 300
 CHARLOTTE, NC 28211
 (704) 366-7357

PROJECT
FOOD LION P-3000

AREA
 PARCEL 240
 TAX MAP 46, BLOCK 4
 5th ELECTION DISTRICT ZONED B-2
 HOWARD COUNTY, MARYLAND

TITLE
**EXISTING CONDITIONS,
 SOILS MAP & DEMOLITION PLAN**

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21045
 tel 410.997.9800 fax 410.997.9262

DESIGNED BY: C.J.R.
 DRAWN BY: DRD
 PROJECT NO: 08372
 SDP-2.DWG
 DATE: NOVEMBER 4, 1999
 SCALE: 1" = 40'
 DRAWING NO. 2 OF 10

LEGEND

EXISTING PAVING

EXISTING GRAVEL

STEEP SLOPES 15%-24.9%






THERE ARE NO SLOPES >25%

PROPERTY OF
 CHERRYTREE PARK L.L.C.
 (L.4109, F.554)
 ZONED POR-MXD-6
 PROPOSED AS A
 NON-RESIDENTIAL USE

PROPERTY OF
 CHERRYTREE PARK L.L.C.
 (L.4109, F.554)
 ZONED POR-MXD-6

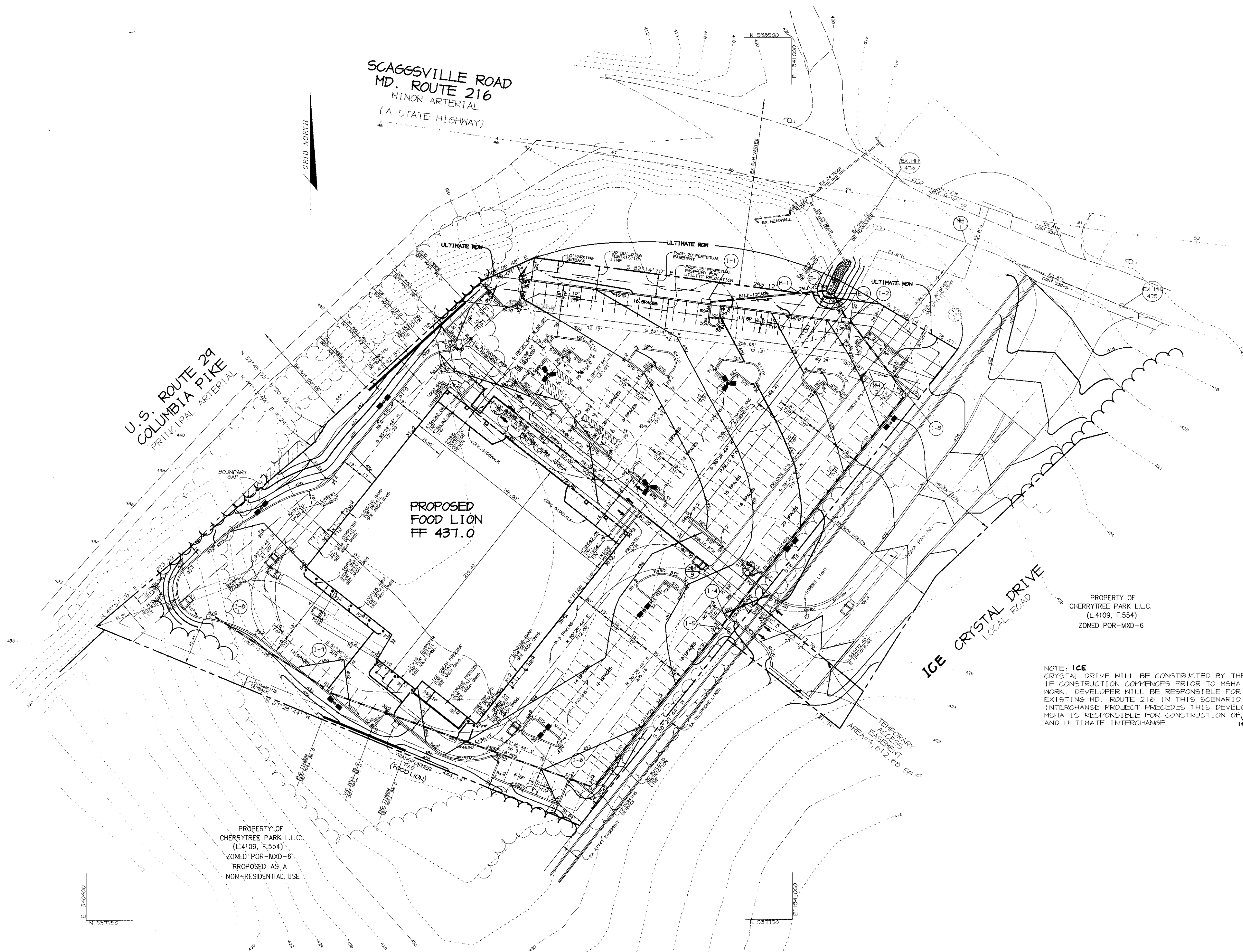
PLAN
 SCALE: 1"=40'

LEGEND

-  P-1 PAVING
-  P-3 PAVING
-  SITE LIGHT (SINGLE) - SEE NOTE 1.
-  BOLLARDS - SEE ARCHITECTURAL DRAWINGS
-  250-MATT STREET LIGHT MOUNTED AT 30' ON A BRONZE FIBERGLASS POLE USING A 12' ARM.

NOTES

1. STREET LIGHTS TO BE 150 WATT VAPOR PENDANT FIXTURES MOUNTED AT 30' WITH BRONZE FIBERGLASS POLE AND 12' ARM. SITE LIGHTS TO BE 1000 WATT METAL HALIDE VERTICAL LAMPS ON SHOEBOXES ON 2'-6" BASE WITH 39' POLE (SINGLE, DOUBLE, OR QUAD). ALL LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES PER ZONING REGULATIONS SECTION 134.
2. ALL CURB RADII ARE 5' UNLESS OTHERWISE SHOWN.
3. ALL ON-SITE ROADS ARE PRIVATE.
4. CONTRACTOR TO INSTALL UTILITIES PER HO. CO. STD. SPEC'S AND DETAILS FOR CONSTRUCTION VOLUME IV ARTICLE 10, UTILITY CONSTRUCTION, SECTION 1000
5. SEE SHEET 8 FOR ENLARGEMENT OF HANDICAP PARKING AREA.
6. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE LABELED.
7. * LIMITS OF STD/REV CURB AND GUTTER.
8. PERMISSION TO GRADE AND CONSTRUCT DRAINAGE FACILITIES TO BE OBTAINED FROM MSHA PRIOR TO SIGNATURE APPROVAL OF SITE DEVELOPMENT PLAN.
9. NO VISIBLE SIGNS OF WATER WELLS OR SEPTIC AREAS/SYSTEMS WERE OBSERVED.



SCAGGSVILLE ROAD
MD. ROUTE 216
MINOR ARTERIAL
(A STATE HIGHWAY)

U.S. ROUTE 29
COLUMBIA PIKE
PRINCIPAL ARTERIAL

PROPOSED
FOOD LION
FF 437.0

ICE CRYSTAL DRIVE
LOCAL ROAD

PROPERTY OF
CHERRYTREE PARK L.L.C.
(L4109, F.554)
ZONED POR-MXD-6

NOTE: ICE CRYSTAL DRIVE WILL BE CONSTRUCTED BY THE DEVELOPER IF CONSTRUCTION COMMENCES PRIOR TO MSHA INTERCHANGE WORK. DEVELOPER WILL BE RESPONSIBLE FOR TIE-IN TO EXISTING MD. ROUTE 216 IN THIS SCENARIO. IF THE INTERCHANGE PROJECT PRECEDES THIS DEVELOPMENT THE MSHA IS RESPONSIBLE FOR CONSTRUCTION OF CRYSTAL DRIVE AND ULTIMATE INTERCHANGE.


PROPERTY OF
CHERRYTREE PARK L.L.C.
(L4109, F.554)
ZONED POR-MXD-6
PROPOSED AS A
NON-RESIDENTIAL USE

PLAN
SCALE: 1"=40'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Dina M. ...</i>	11/30/97
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>...</i>	12/8/97
DIRECTOR	DATE
<i>...</i>	11/15/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>...</i>	12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

DATE	NO.	REVISION
OWNER / DEVELOPER		
ASTON PROPERTIES 6525 MORRISON BLVD., SUITE 300 CHARLOTTE, NC 28211 (704) 366-7337		
PROJECT		
FOOD LION P-3000		
AREA		
PARCEL 240 TAX MAP 46, BLOCK 4 5th ELECTION DISTRICT ZONED B-2 HOWARD COUNTY, MARYLAND		
TITLE		
SITE DEVELOPMENT PLAN		

RIEMER MUEGGE & ASSOCIATES INC
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21045
tel 410.967.8900 fax 410.967.9282

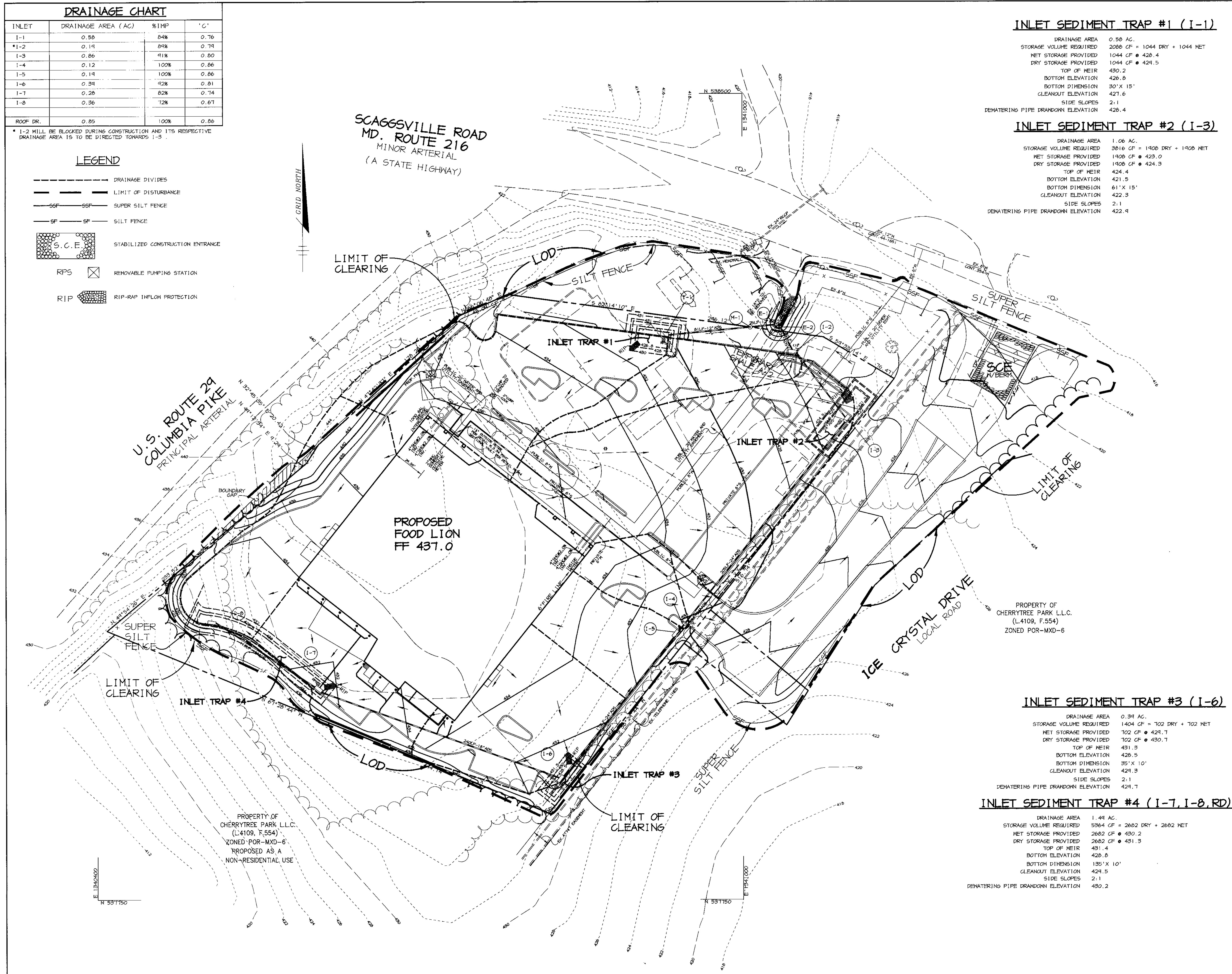
	DESIGNED BY: C.J.R.
	DRAWN BY: DRD
	PROJECT NO. 98372 SDP3.DWG
	DATE: NOVEMBER 4, 1999
	SCALE: AS SHOWN
	DRAWING NO. 3 OF 10

A: \PROJECTS\980372\SDP3.DWG Mon Aug 09 11:23:39 1999 4:17:43 MUEGGE & ASSOCIATES, INC.

DRAINAGE CHART			
INLET	DRAINAGE AREA (AC)	%IMP	'C'
I-1	0.58	84%	0.76
I-2	0.14	84%	0.74
I-3	0.86	91%	0.80
I-4	0.12	100%	0.86
I-5	0.14	100%	0.86
I-6	0.34	92%	0.81
I-7	0.28	82%	0.74
I-8	0.36	72%	0.67
ROOF DR.	0.85	100%	0.86

* I-2 WILL BE BLOCKED DURING CONSTRUCTION AND ITS RESPECTIVE DRAINAGE AREA IS TO BE DIRECTED TOWARDS I-3.

LEGEND	
	DRAINAGE DIVIDES
	LIMIT OF DISTURBANCE
	SUPER SILT FENCE
	SILT FENCE
	STABILIZED CONSTRUCTION ENTRANCE
	REMOVABLE PUMPING STATION
	RIP-RAP INFLOW PROTECTION



INLET SEDIMENT TRAP #1 (I-1)

DRAINAGE AREA	0.58 AC.
STORAGE VOLUME REQUIRED	2080 CF = 1044 DRY + 1044 NET
NET STORAGE PROVIDED	1044 CF @ 428.4
DRY STORAGE PROVIDED	1044 CF @ 424.5
TOP OF WEIR	430.2
BOTTOM ELEVATION	426.8
BOTTOM DIMENSION	30' X 15'
CLEANOUT ELEVATION	427.6
SIDE SLOPES	2:1
DEWATERING PIPE DRAINDOWN ELEVATION	426.4

INLET SEDIMENT TRAP #2 (I-3)

DRAINAGE AREA	1.06 AC.
STORAGE VOLUME REQUIRED	3816 CF = 1908 DRY + 1908 NET
NET STORAGE PROVIDED	1908 CF @ 423.0
DRY STORAGE PROVIDED	1908 CF @ 424.3
TOP OF WEIR	424.4
BOTTOM ELEVATION	421.5
BOTTOM DIMENSION	61' X 15'
CLEANOUT ELEVATION	422.3
SIDE SLOPES	2:1
DEWATERING PIPE DRAINDOWN ELEVATION	422.9

INLET SEDIMENT TRAP #3 (I-6)

DRAINAGE AREA	0.34 AC.
STORAGE VOLUME REQUIRED	1404 CF = 702 DRY + 702 NET
NET STORAGE PROVIDED	702 CF @ 424.7
DRY STORAGE PROVIDED	702 CF @ 430.7
TOP OF WEIR	431.3
BOTTOM ELEVATION	428.5
BOTTOM DIMENSION	35' X 10'
CLEANOUT ELEVATION	429.3
SIDE SLOPES	2:1
DEWATERING PIPE DRAINDOWN ELEVATION	429.7

INLET SEDIMENT TRAP #4 (I-7, I-8, RD)

DRAINAGE AREA	1.44 AC.
STORAGE VOLUME REQUIRED	5364 CF = 2682 DRY + 2682 NET
NET STORAGE PROVIDED	2682 CF @ 430.2
DRY STORAGE PROVIDED	2682 CF @ 431.3
TOP OF WEIR	431.4
BOTTOM ELEVATION	428.8
BOTTOM DIMENSION	135' X 10'
CLEANOUT ELEVATION	429.5
SIDE SLOPES	2:1
DEWATERING PIPE DRAINDOWN ELEVATION	430.2

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.

Arthur E. Muegge 11/3/99
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 8/10/99
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 Sims /es 11/9/99
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Cheryl Sims /es 11/9/99
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Dina M. Hester 11/30/99
COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James E. Smith 12/2/99
DIRECTOR DATE

Arthur E. Muegge 11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy K. Hester 12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO.	REVISION

OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD. SUITE 300
CHARLOTTE, NC 28211
(704) 366-7337

PROJECT
FOOD LION P-3000

AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT ZONED B-2
HOWARD COUNTY, MARYLAND

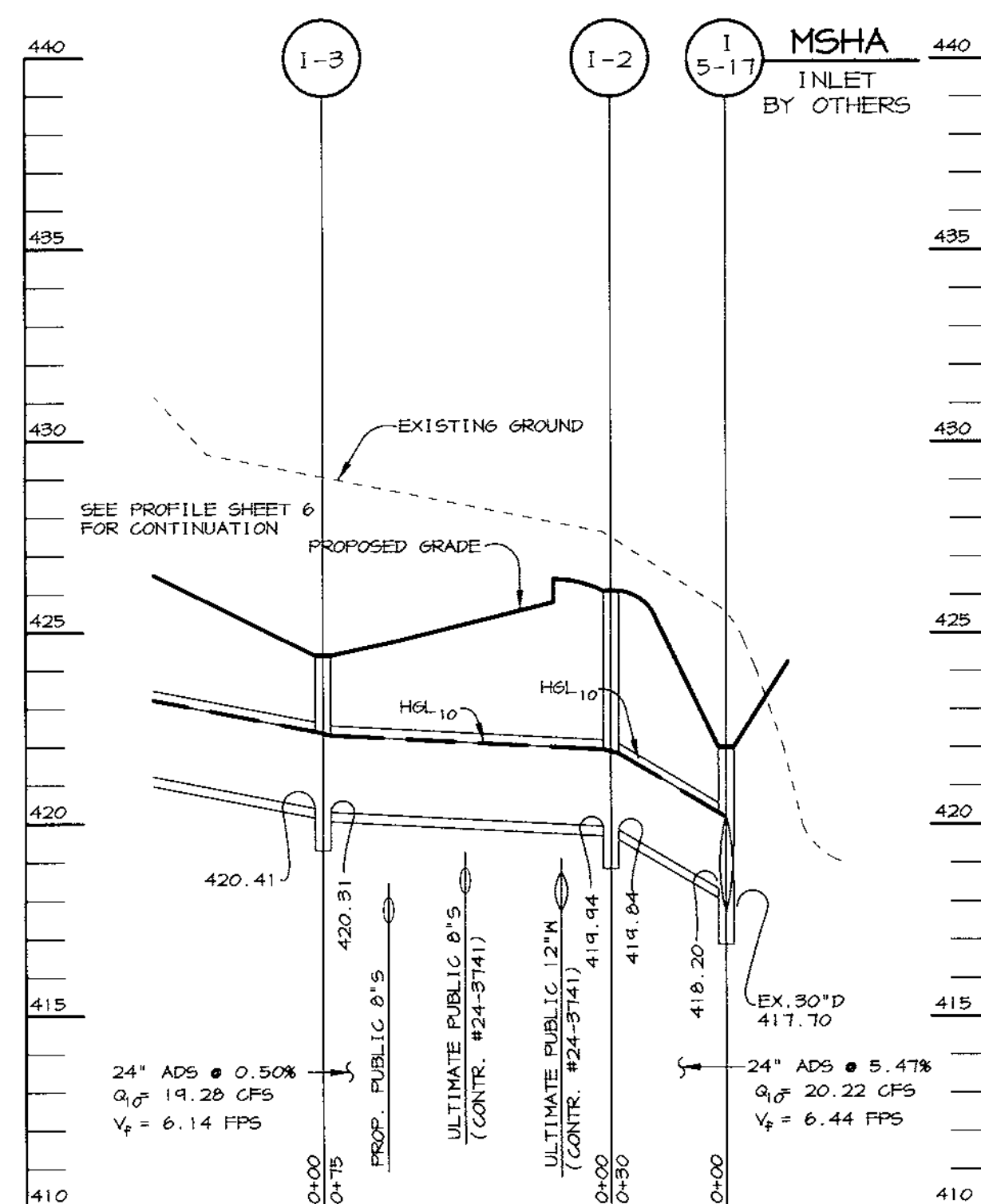
TITLE **SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP**

RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
TEL 410.997.8000 FAX 410.997.8282

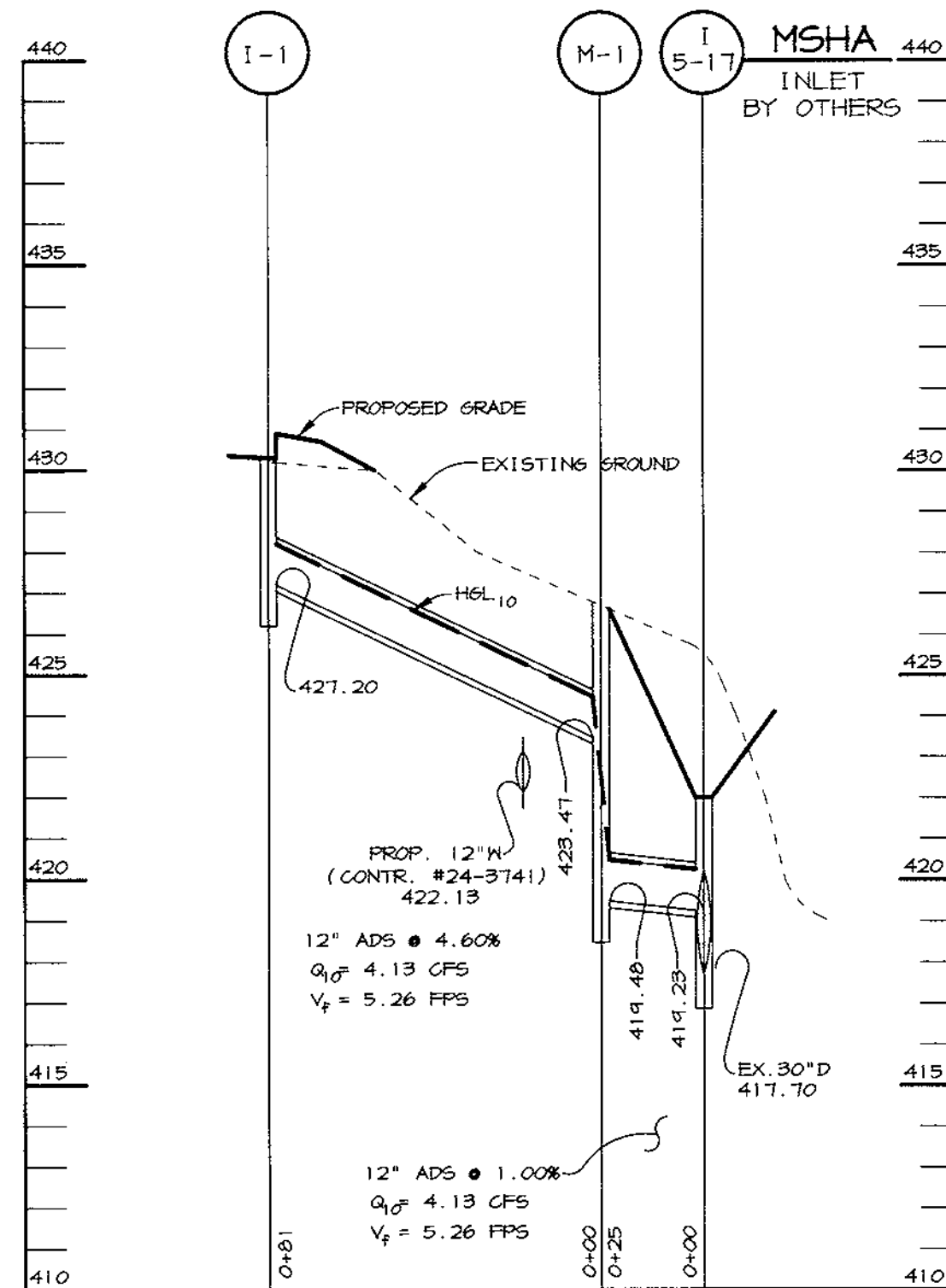
DATE	DESIGNED BY :	C.J.R.
	DRAWN BY :	DRD
	PROJECT NO :	98372 SDP4.DWG
	DATE :	NOVEMBER 4, 1999
	SCALE :	1" = 40'
	DRAWING NO. :	4 OF 10



PLAN
SCALE: 1"=40'



STORM DRAIN PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'



STORM DRAIN PROFILE
SCALE: HOR.: 1"=50'
VERT.: 1"=5'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Dina M. M... 11/2/99
 COUNTY HEALTH OFFICER M.D. DATE
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Frank J. S... 12/8/99
 DIRECTOR DATE
Chris D... 11/15/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Chris H... 12/7/99
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. REVISION

OWNER / DEVELOPER
 ASTON PROPERTIES
 6525 MORRISON BLVD. SUITE 300
 CHARLOTTE, NC 28211
 (704) 366-7337

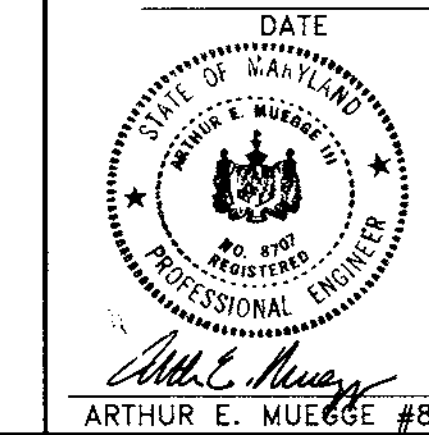
PROJECT
FOOD LION P-3000

AREA
 PARCEL 240
 TAX MAP 46, BLOCK 4
 5th ELECTION DISTRICT ZONED B-2
 HOWARD COUNTY, MARYLAND

TITLE
ULTIMATE SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 tel 410.997.8800 fax 410.997.8282

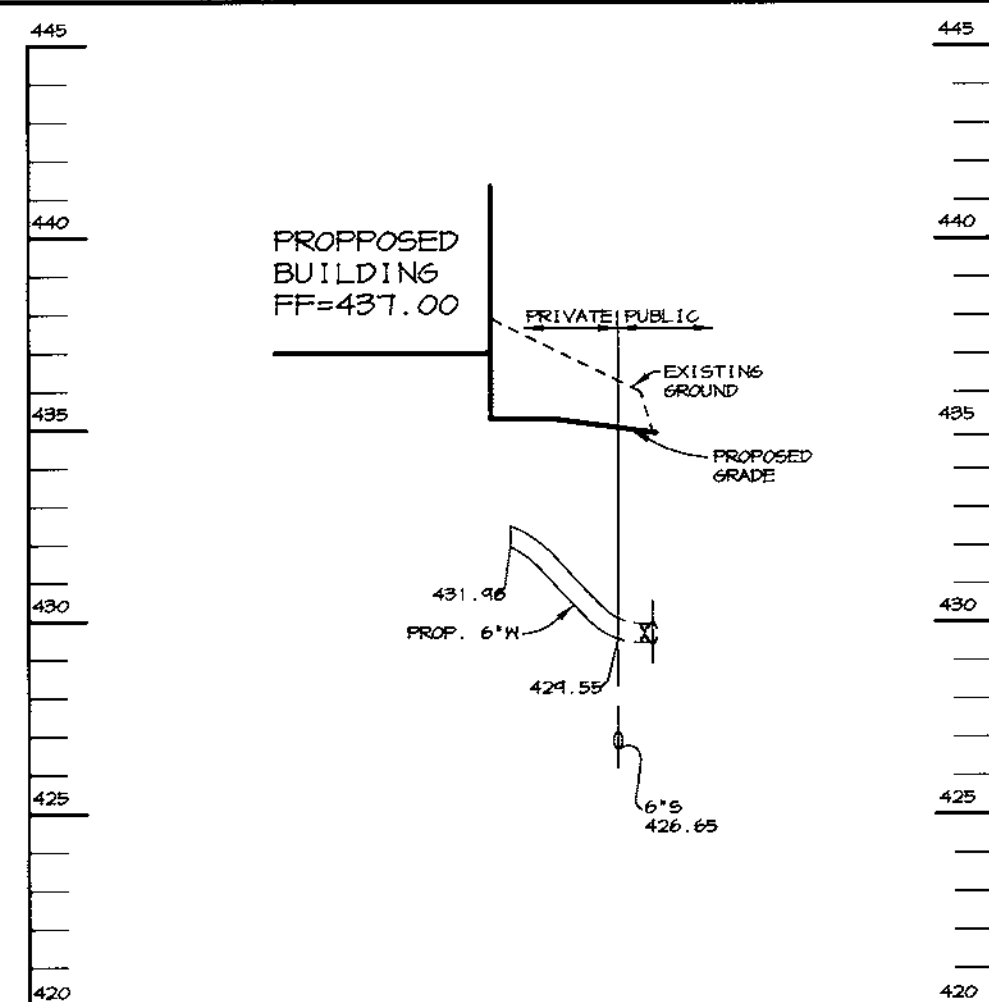
DATE
 DESIGNED BY: C.J.R.
 DRAWN BY: DRD
 PROJECT NO: 98372
 SDPS.DMS
 DATE: NOVEMBER 4, 1999
 SCALE: AS SHOWN
 DRAWING NO. 5 OF 10



STRUCTURE SCHEDULE

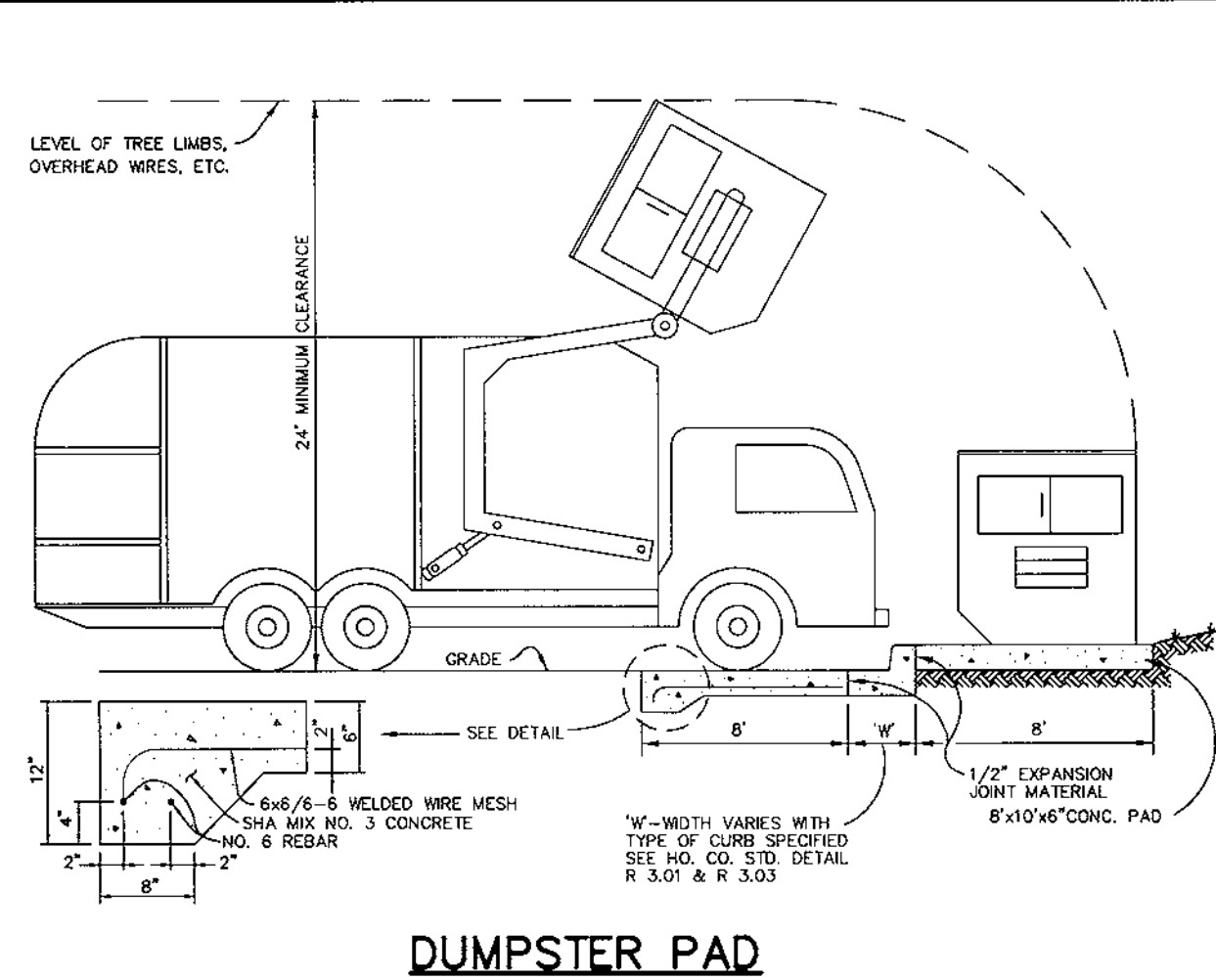
STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
1-1	MR	*N 538, 273.24 E 1,340, 427.13	-	427.20	430.8	HOCO STD. DETAIL SD 4.35
1-2	DOUBLE S	*N 538, 257.03 E 1,341, 046.03	419.94	419.84	426.1	HOCO STD. DETAIL SD 4.43B
1-3	MR	*N 538, 196.54 E 1,341, 097.99	420.41	420.31	424.4	HOCO STD. DETAIL SD 4.35
1-4	A-5	*N 538, 036.47 E 1,340, 464.58	425.16	425.06	430.35	HOCO STD. DETAIL SD 4.01 INSIDE DIM. 2'-6" x 5'-10"
1-5	MR	*N 537, 996.18 E 1,340, 936.64	425.38	425.28	430.3	HOCO STD. DETAIL SD 4.35
1-6	MR	*N 537, 861.24 E 1,340, 831.32	426.74	426.24	430.5	HOCO STD. DETAIL SD 4.35
1-7	MR	*N 537, 944.95 E 1,340, 604.30	424.10 (10') 428.44 (12')	427.94	431.4	HOCO STD. DETAIL SD 4.35
1-8	MR	*N 538, 007.99 E 1,340, 506.39	-	429.42	432.0	HOCO STD. DETAIL SD 4.35
M-1	4" DIA. MANHOLE	*N 538, 282.51 E 1,341, 007.16	423.47	419.48	426.7	HOCO STD. DETAIL 6 5.12
E-1	12" END SECTION	*N 538, 284.82 E 1,341, 031.70	-	419.23	-	ADS END SECTION
E-2	24" END SECTION	*N 538, 283.19 E 1,341, 034.77	-	419.23	-	ADS END SECTION

NOTES: * LOCATION OF "S" 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/GRADE/RIM.



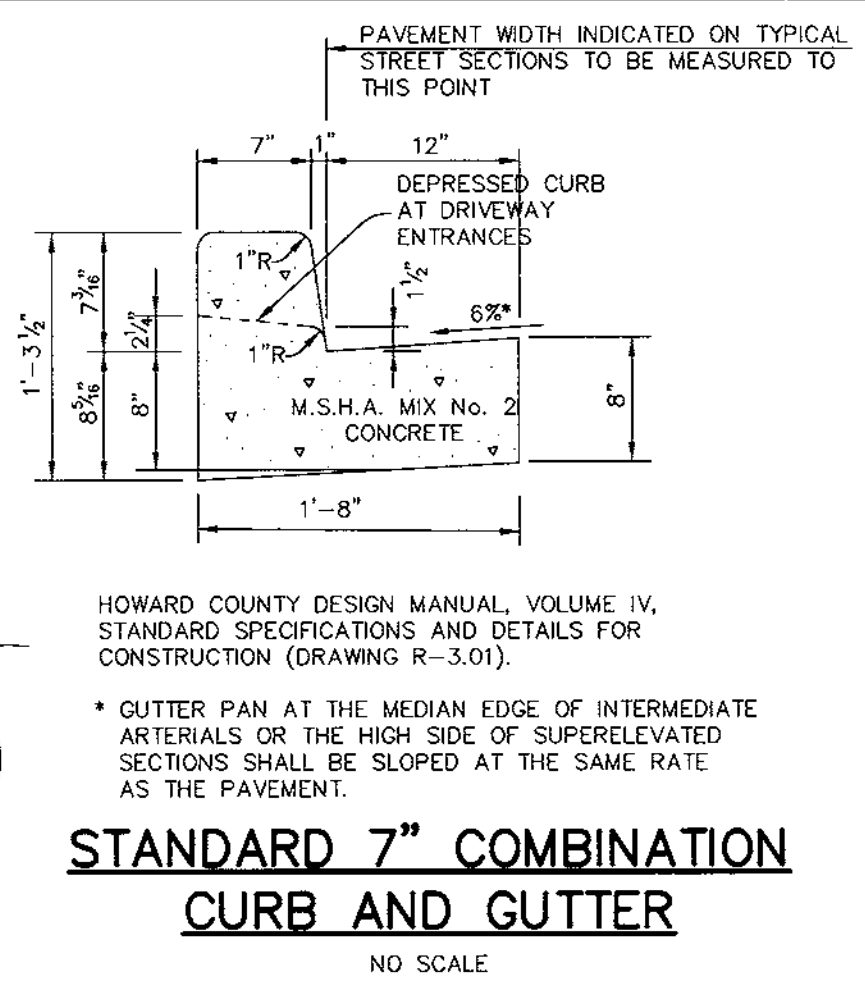
WATER PROFILE

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



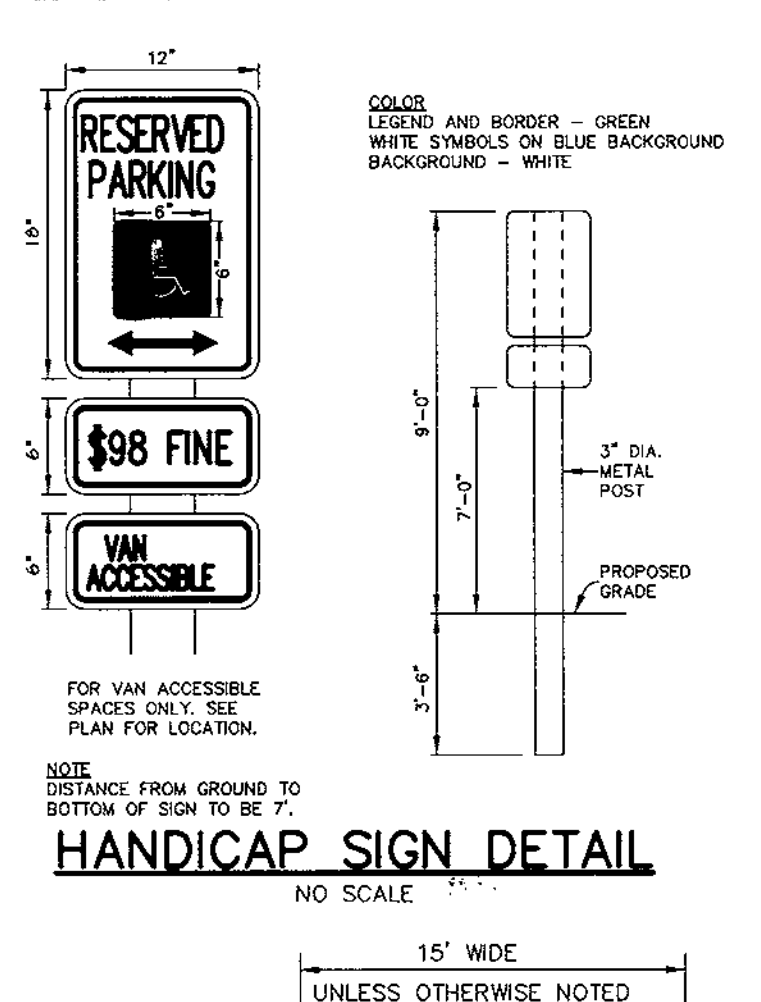
DUMPSTER PAD

NO SCALE



STANDARD 7" COMBINATION CURB AND GUTTER

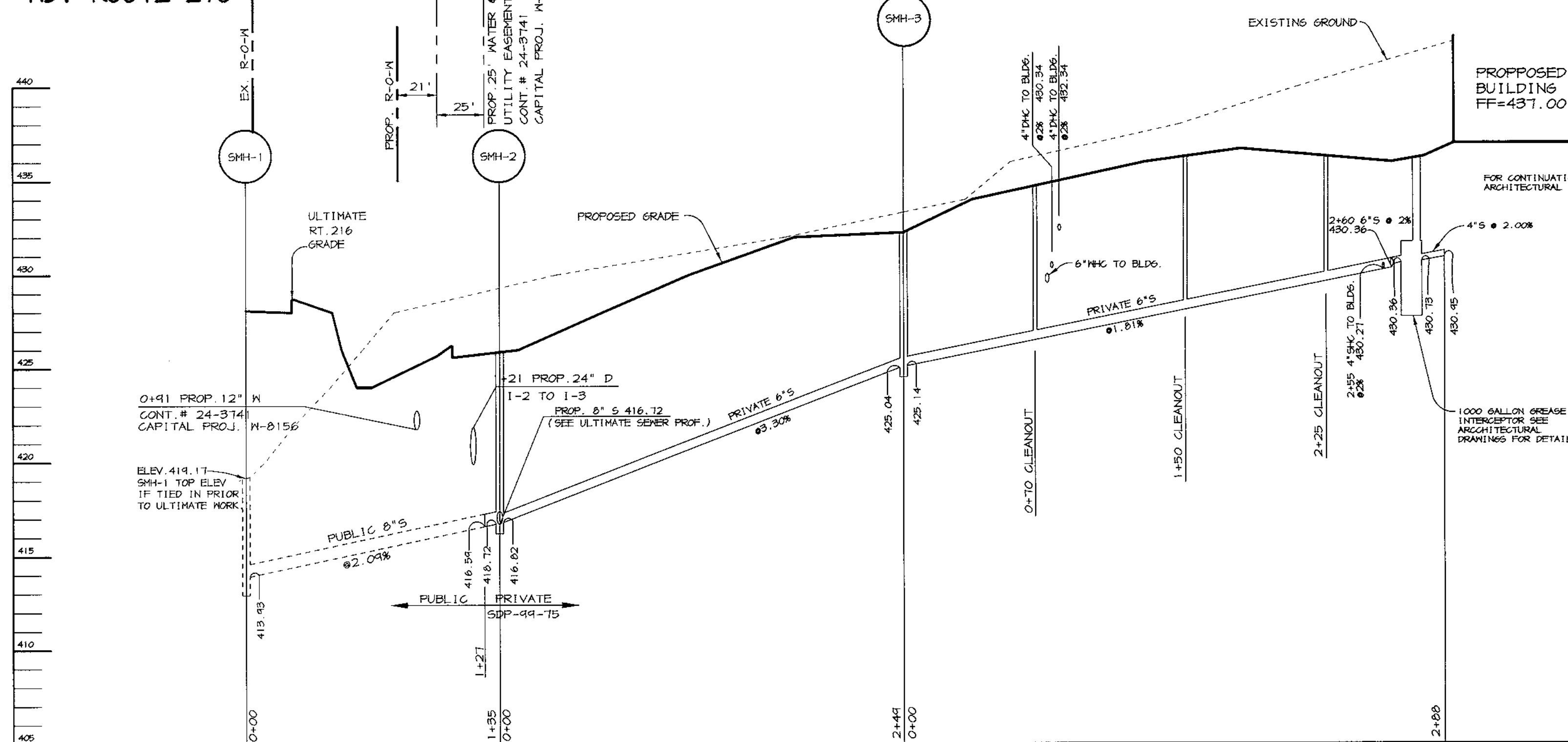
NO SCALE



HANDICAP SIGN DETAIL

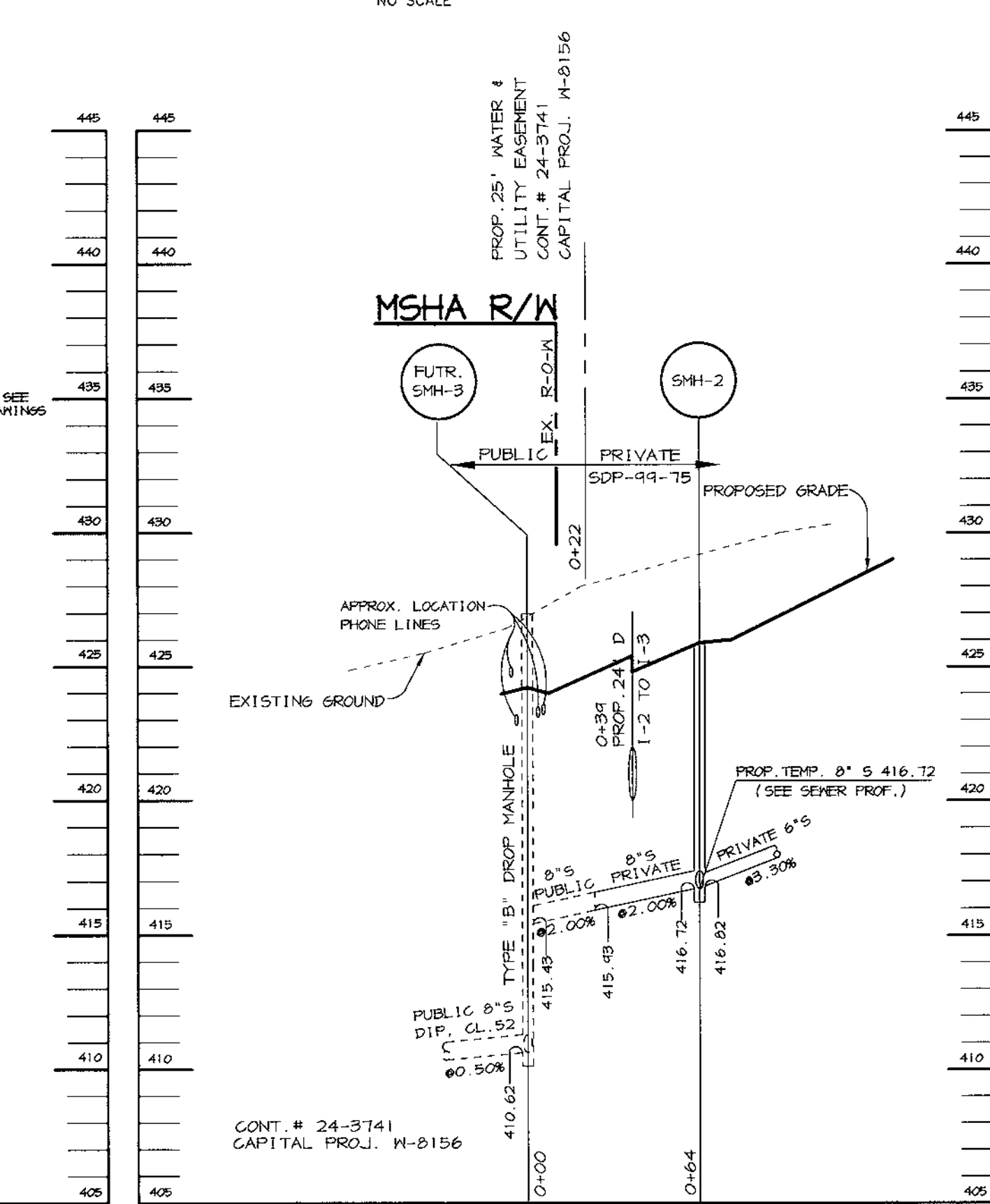
NO SCALE

SCAGGSVILLE RD. MD. ROUTE 216



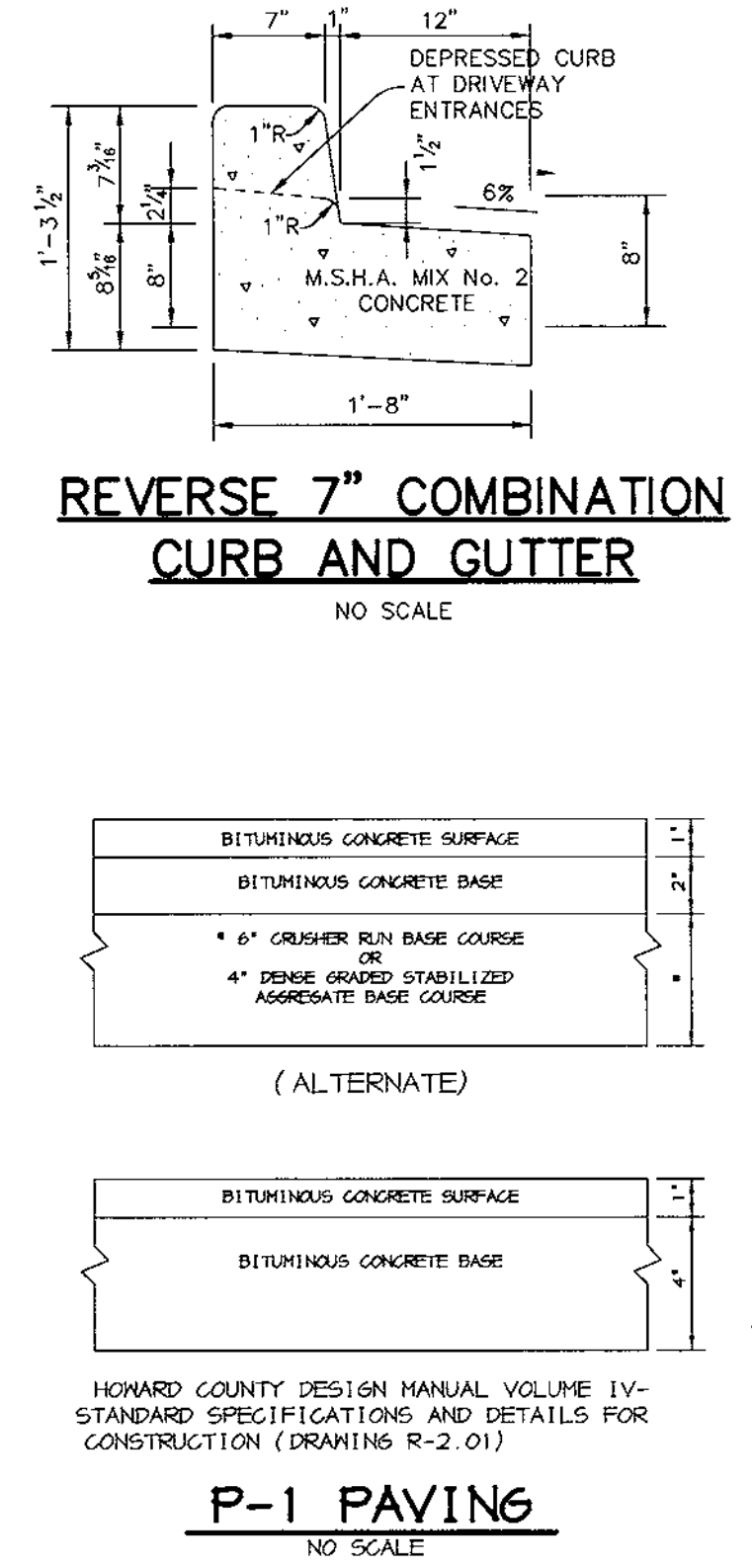
SEWER PROFILE

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



ULTIMATE SEWER PROFILE

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

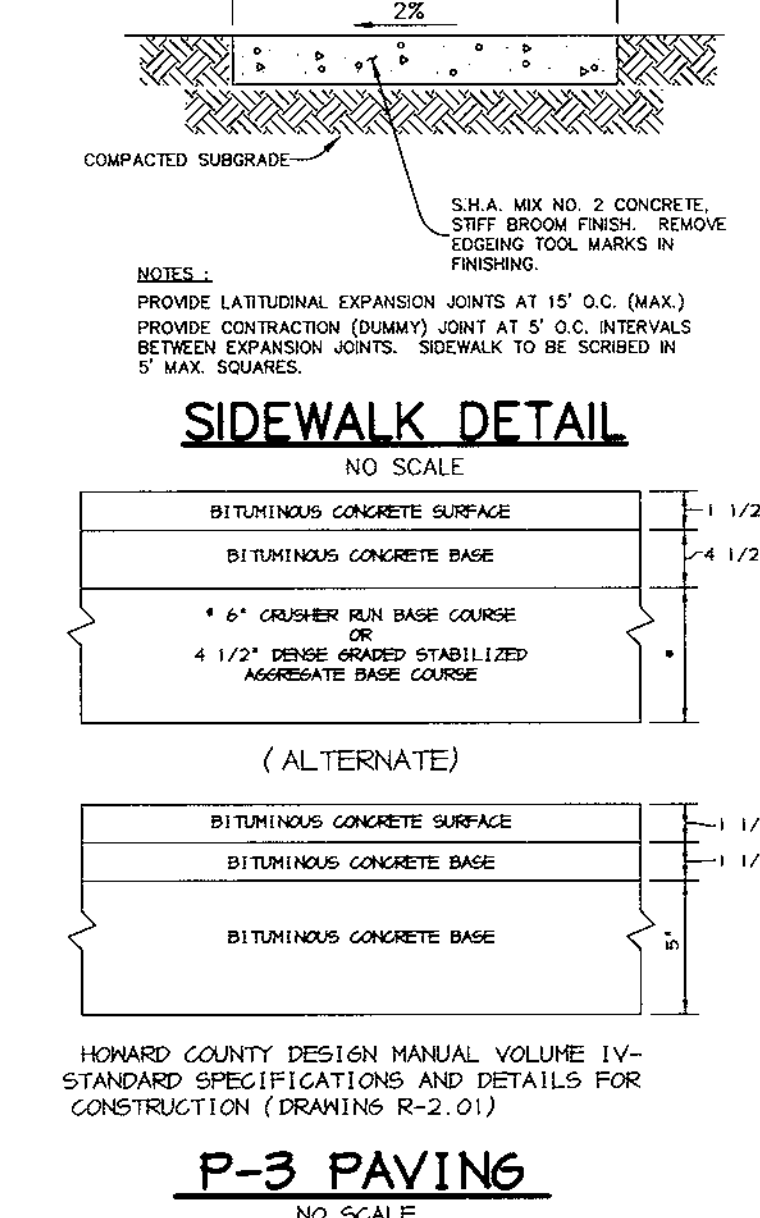


REVERSE 7" COMBINATION CURB AND GUTTER

NO SCALE

P-1 PAVING

NO SCALE

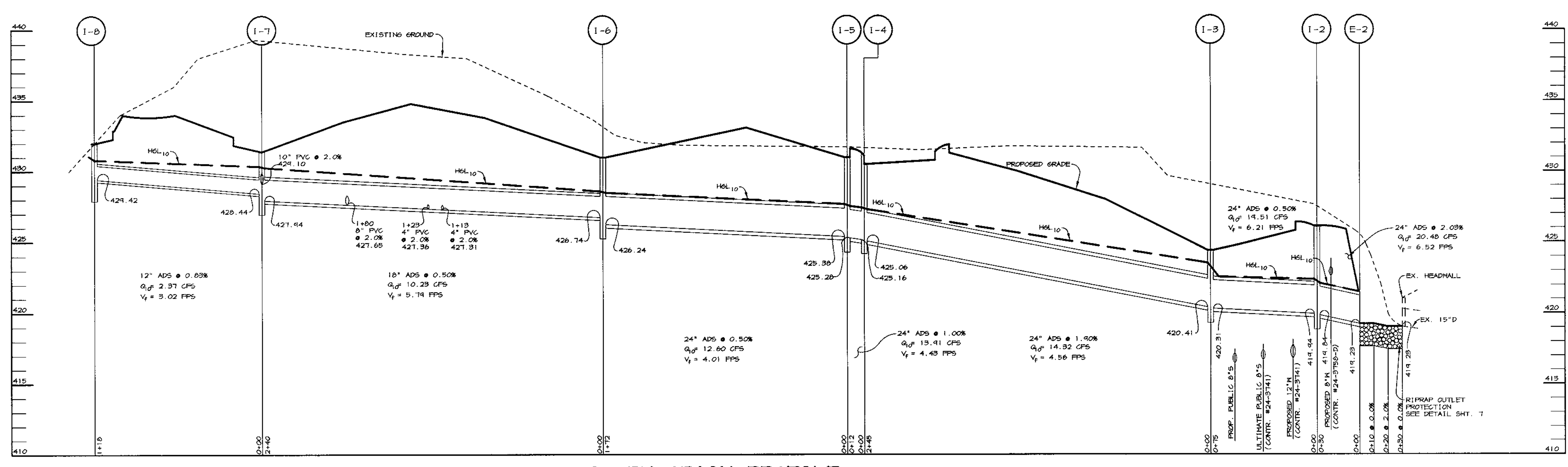


SIDEWALK DETAIL

NO SCALE

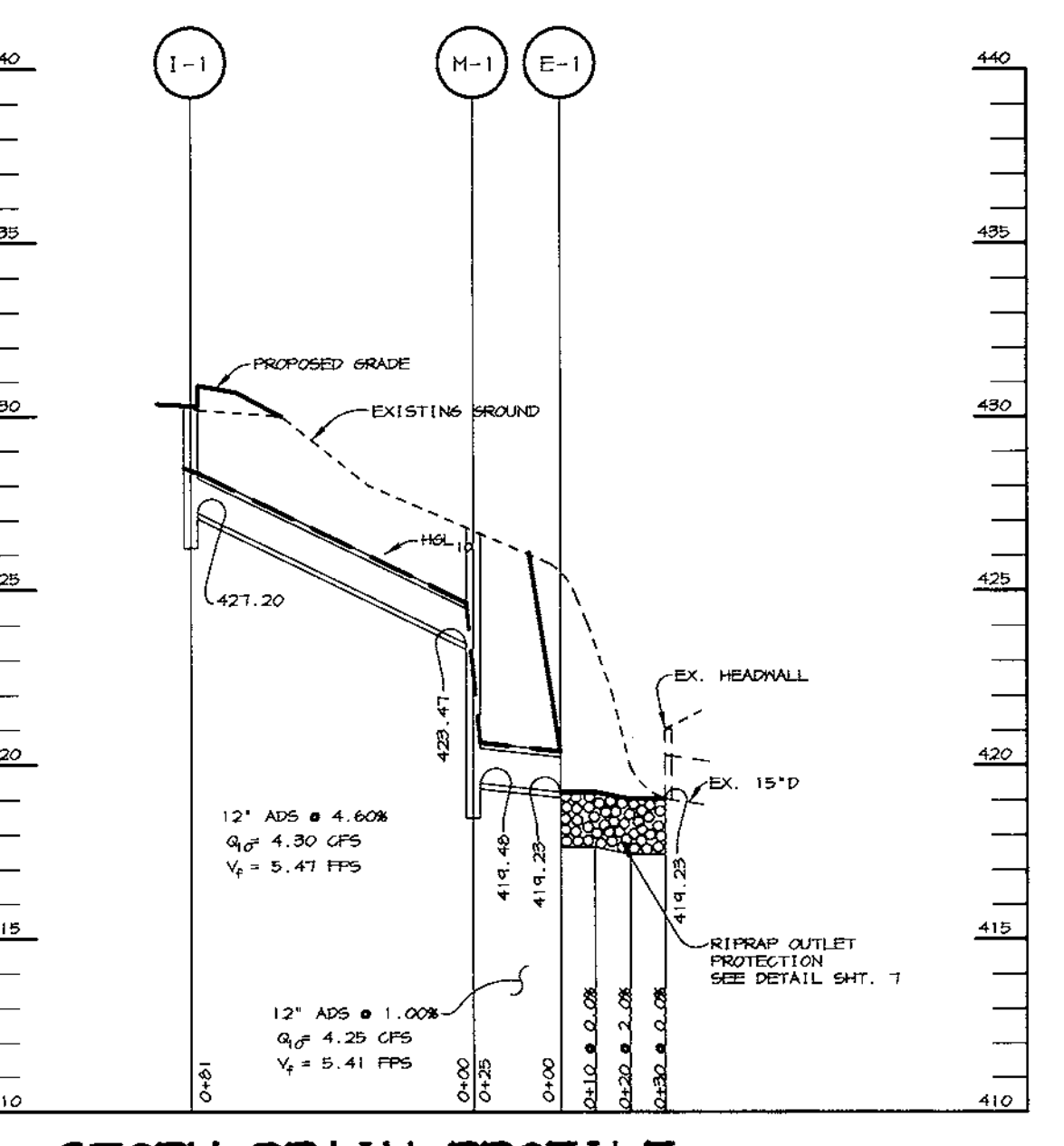
P-3 PAVING

NO SCALE



STORM DRAIN PROFILE

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



STORM DRAIN PROFILE

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

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Don Metzger 11/30/99 DATE
COUNTY HEALTH OFFICER
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
James Keith 12/8/99 DATE
DIRECTOR
Charles R. ... 11/15/99 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION
Wendy ... 12/7/99 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT

DATE	NO.	REVISION
OWNER / DEVELOPER		
ASTON PROPERTIES 6525 MORRISON BLVD. SUITE 300 CHARLOTTE, NC 28211 (704) 366-7337		
PROJECT		
FOOD LION P-3000		
AREA		
PARCEL 240 TAX MAP 46, BLOCK 4 5th ELECTION DISTRICT ZONED B-2 HOWARD COUNTY, MARYLAND		
TITLE		
PROFILE & DETAILS		

RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
tel 410.987.8900 fax 410.987.8282

DATE: DESIGNED BY: C.J.R.
DRAWN BY: DRD
PROJECT NO: 98372
SDP6.DWG
DATE: NOVEMBER 4, 1999
SCALE: AS SHOWN
DRAWING NO. 6 OF 10

ARTHUR E. MUEGGE #8707

N:\PROJECT\98372\SDP6.DWG Mon Aug 09 13:38:19 1999 RIEMER MUEGGE & ASSOCIATES, INC.

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL, AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 14 DAYS AS TO 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 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:**

TOTAL AREA OF SITE	4,828 ACRES
AREA TO BE ROOFED OR PAVED	6.10 ACRES
AREA TO BE VEGETATIVELY STABILIZED	4.60 ACRES
TOTAL CUT	1.50 ACRES
TOTAL FILL	24,857 CU.YDS
TOTAL FILL	1,182 CU.YDS

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

TEMPORARY SEEDING NOTES

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

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

Soil Amendments: Apply 500 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.).

Seeding: For periods March 1 thru April 30, seed from August 15 thru 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 seed.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrolled 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.

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.

Seeding 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 (92 lbs. per 1000 sq.ft.) and 500 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).
- Acceptable - Apply 2 tons per acre dolomitic limestone (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 50 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options:

- 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- Use seed.
- 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 unrolled 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.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

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

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

Conditions Where Practice Applies:

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

Construction and Material Specifications:

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-ARS, in cooperation with Maryland Agricultural Experimentation Station.
- Topsoil Specifications - Soil to be used on 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 authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as burdock grass, quackgrass, Johnsongrass, nutsedge, poison ivy, Dillenia, 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 (100-200 pounds per 1,000 square feet) prior to the placement of topsoil. Limestone shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures:
 - For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 - For sites having disturbed areas over 5 acres:
 - On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
 - Organic content of topsoil shall be not less than 1.5 percent by weight.
 - Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - No sod or seed shall be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit dissipation of phytotoxic materials.
 - Topsoil substitutes to amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority may be used in lieu of natural topsoil.
- Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

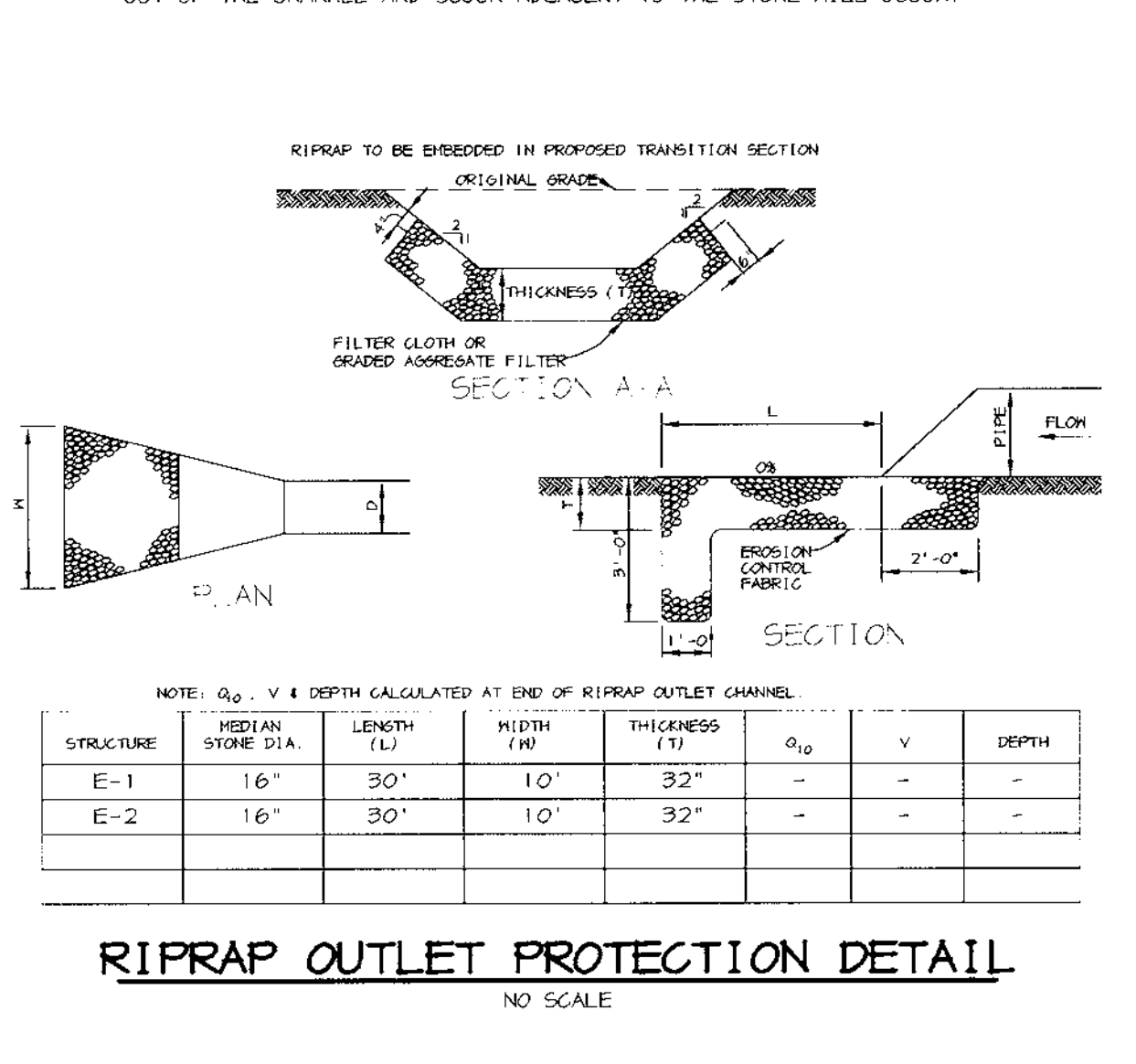
Topsoil Application:

- 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, about 4" - 8" higher in elevation.
 - Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
 - Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.
- Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below:
 - Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for site having disturbed areas under 5 acres shall conform to the following requirements:
 - Composted sludge shall be supplied by, or originate from, a person or persons that are permitted at the time of acquisition of the compost by the Maryland Department of the Environment under COMAR 26.04.06.
 - Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 9.0.
 - 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 1/2 the normal lime application rate.

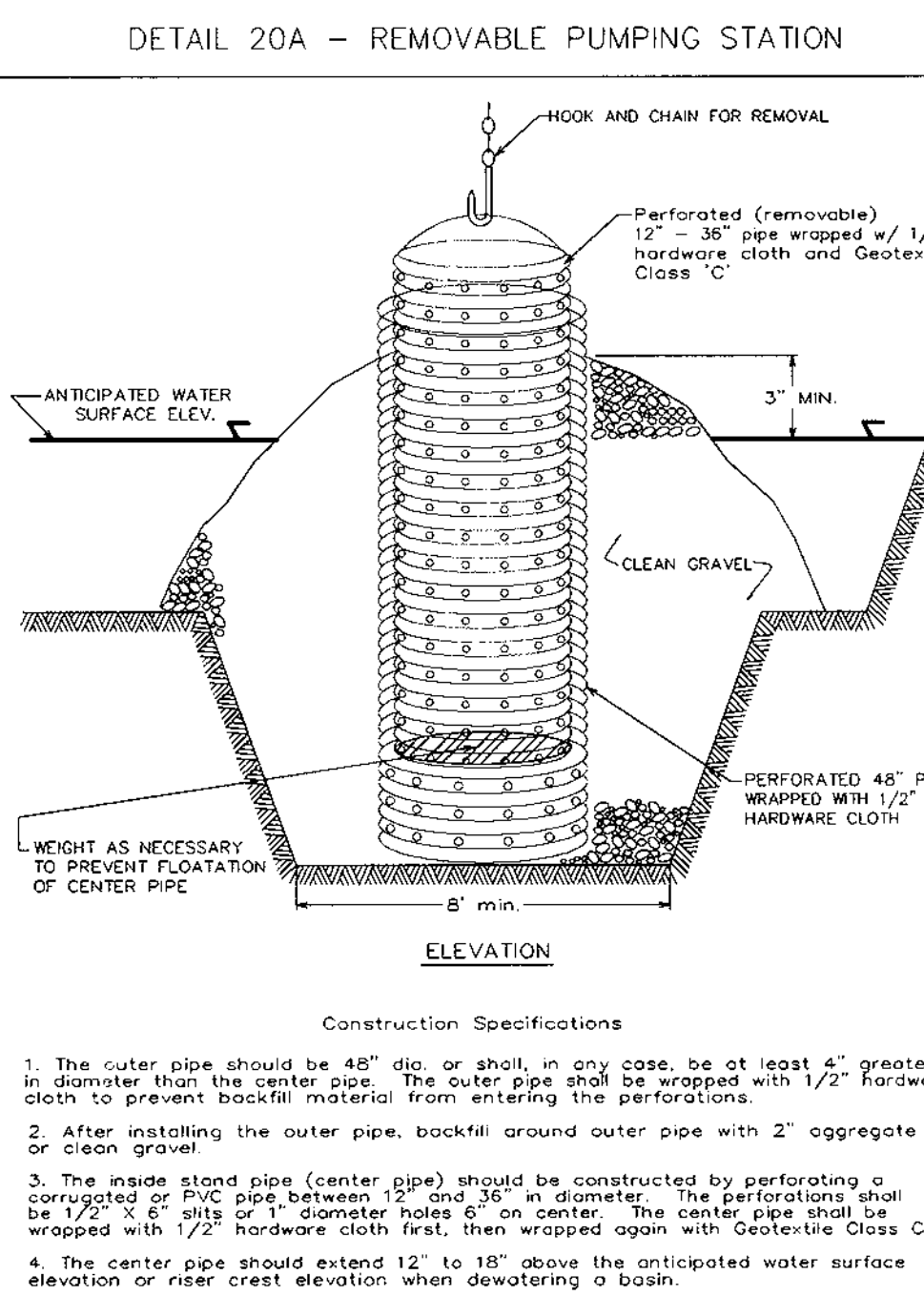
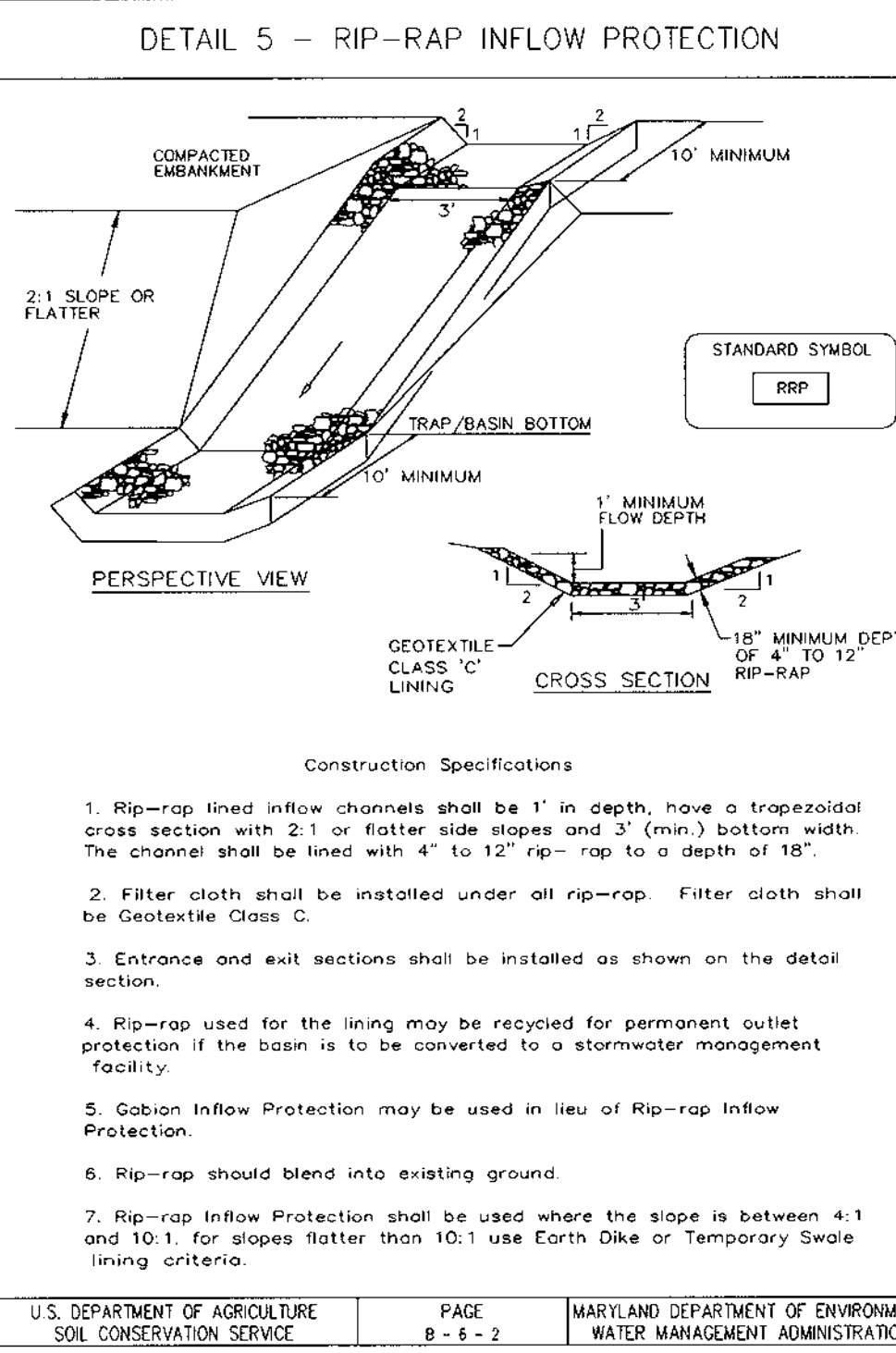
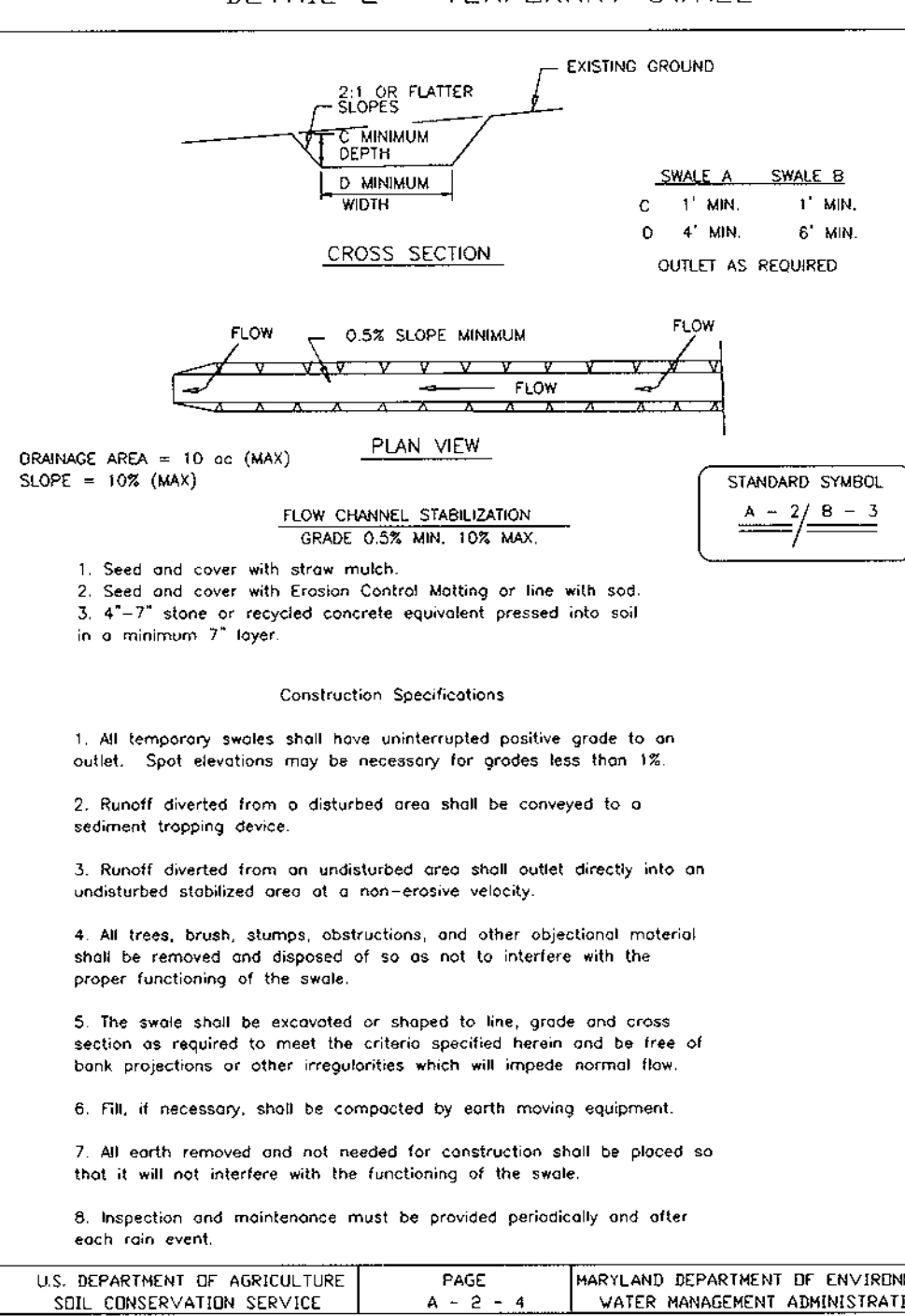
References: Guidelines Specifications, Soil Preparation and Sodding, MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1978.

CONSTRUCTION SPECIFICATIONS

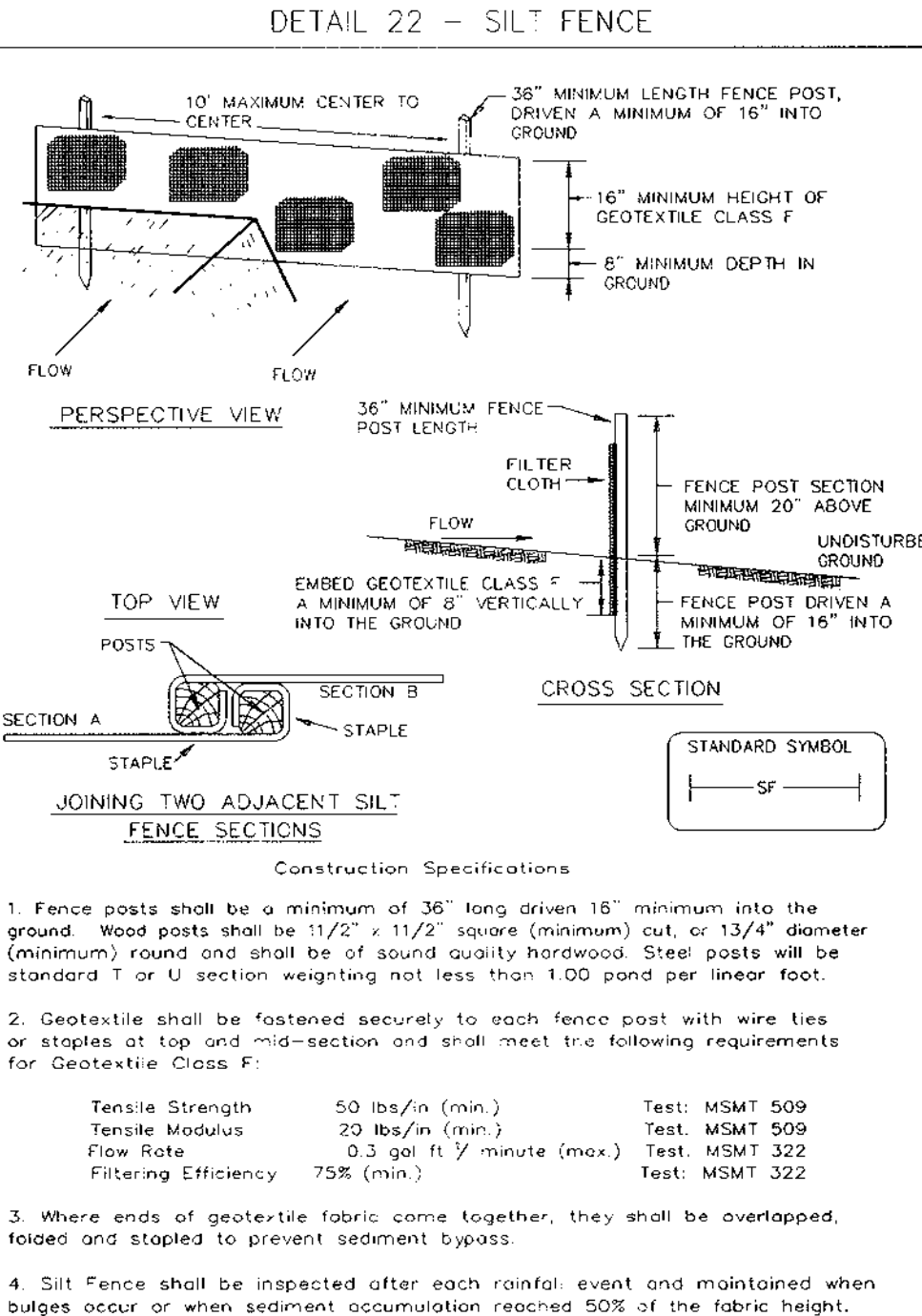
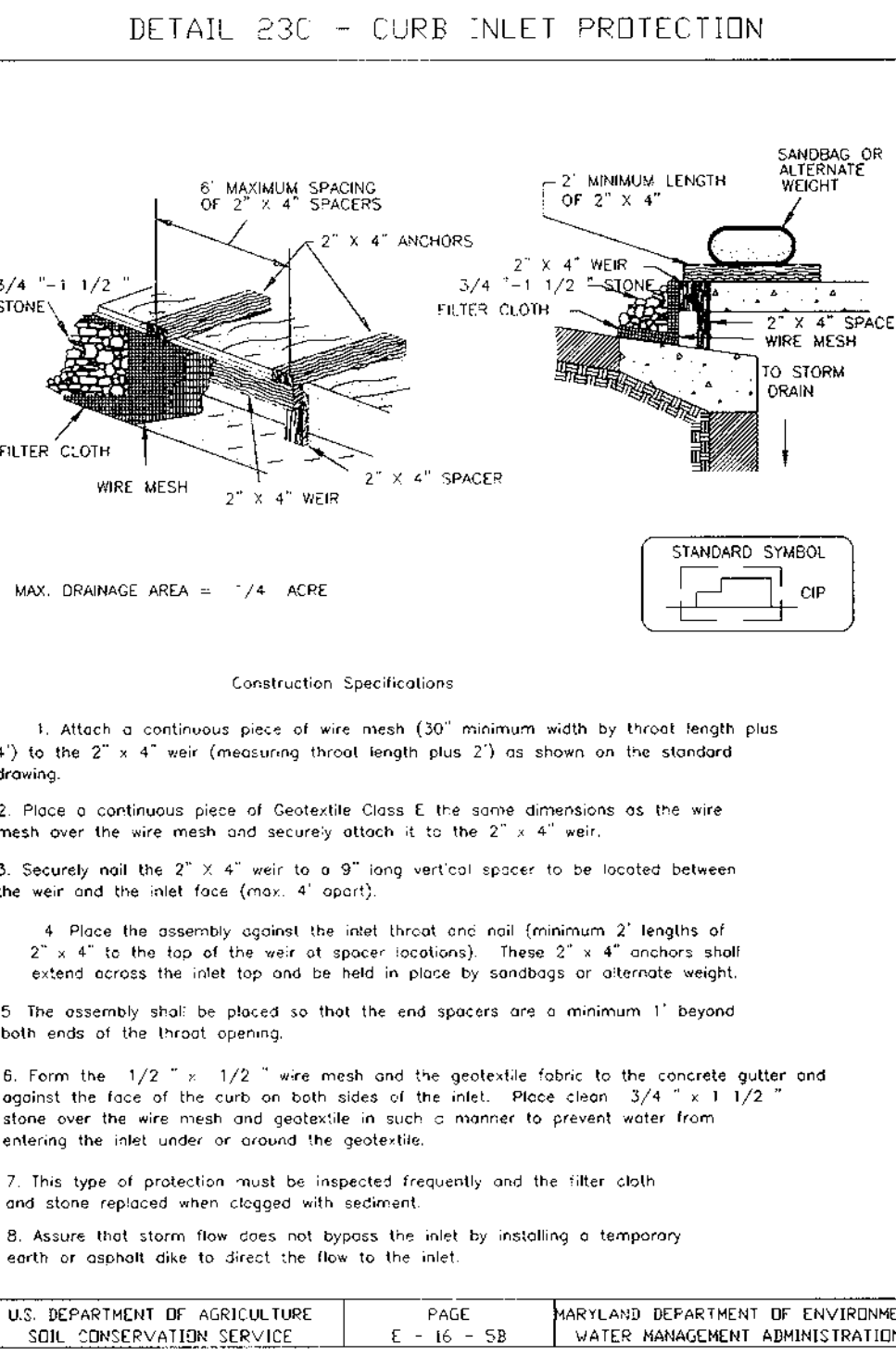
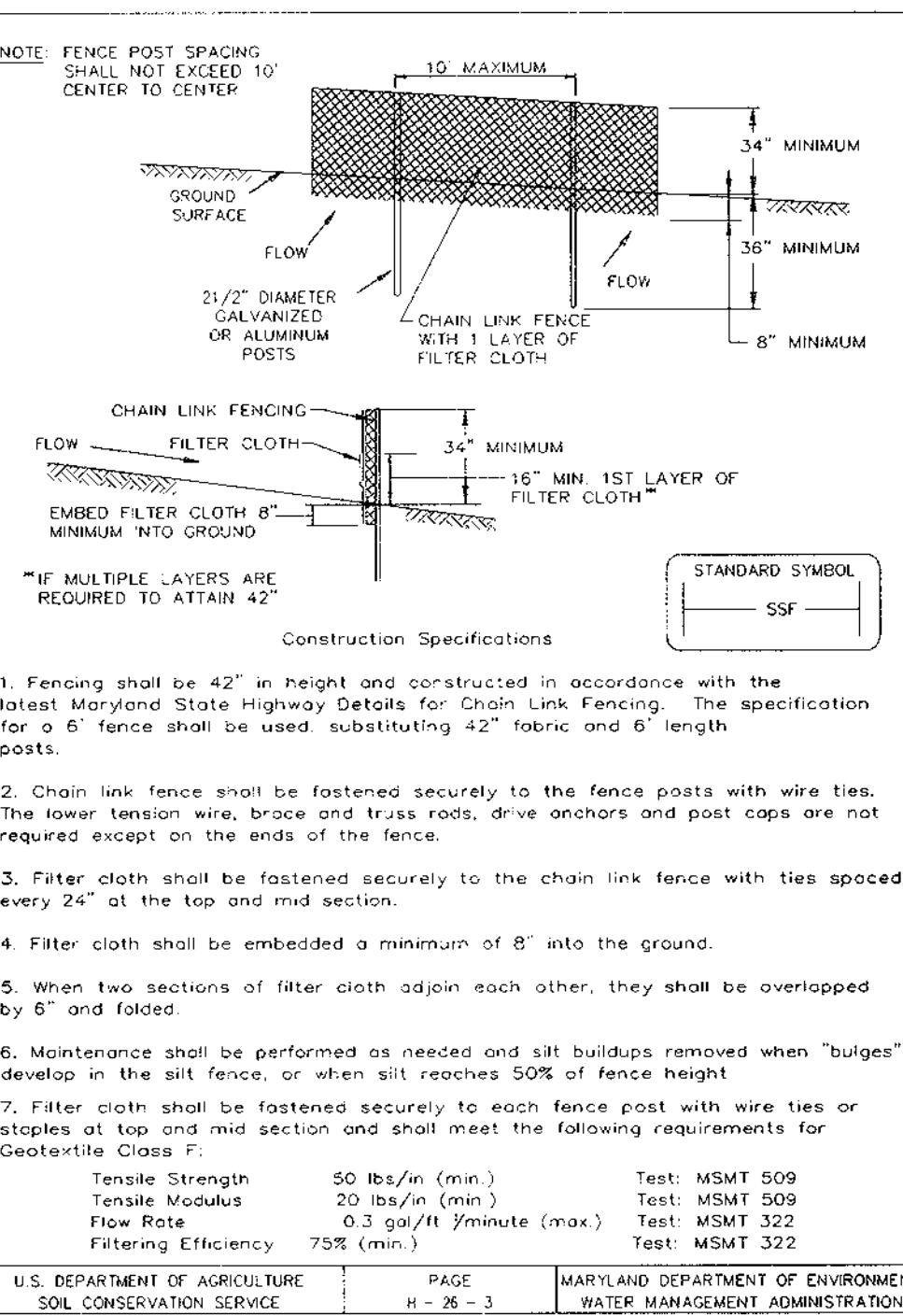
- THE SUBGRADE FOR THE FILTER, RIP-RAP, OR GABION SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING SOIL.
- THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIP-RAP OR FILTER.
- GEOTEXTILE CLASS C OR BETTER SHALL BE PROTECTED FROM PUNCHING, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE FABRIC OVER THE DAMAGED AREA. WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF GEOTEXTILE FABRIC SHALL BE A MINIMUM OF ONE FOOT. UNDISTURBED MATERIAL.
- STONE FOR THE RIP-RAP OR GABION OUTLETS MAY BE PLACED BY EQUIPMENT. THEY SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIP-RAP OR GABION OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIP-RAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER, BLANKET OR GEOTEXTILE FABRIC. HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
- THE STONE SHALL BE PLACED SO THAT IT BLENDS IN WITH THE EXISTING GROUND. IF THE STONE IS PLACED TOO HIGH THEN THE FLOW WILL BE FORCED OUT OF THE CHANNEL AND SCOUR ADJACENT TO THE STONE WILL OCCUR.



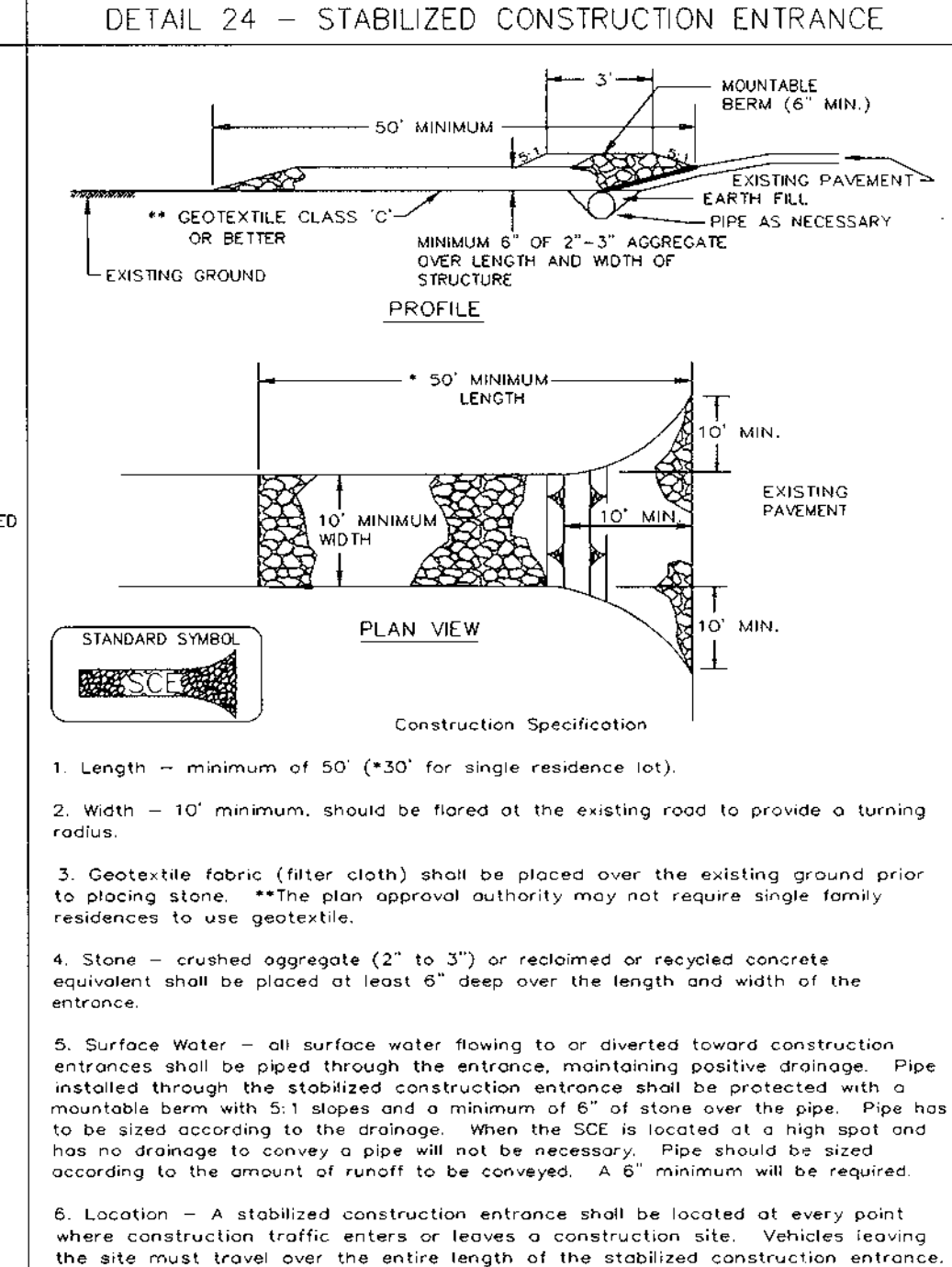
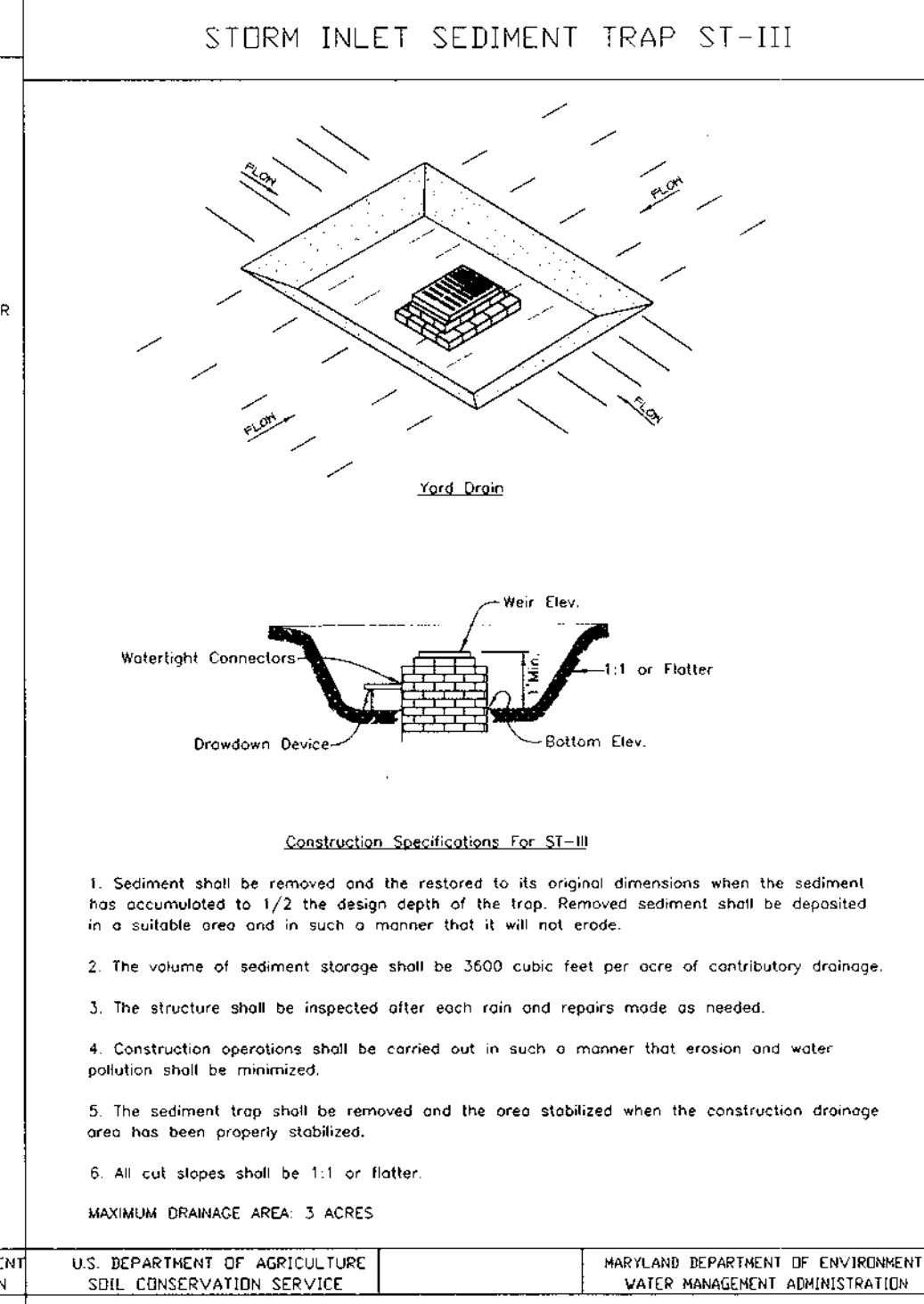
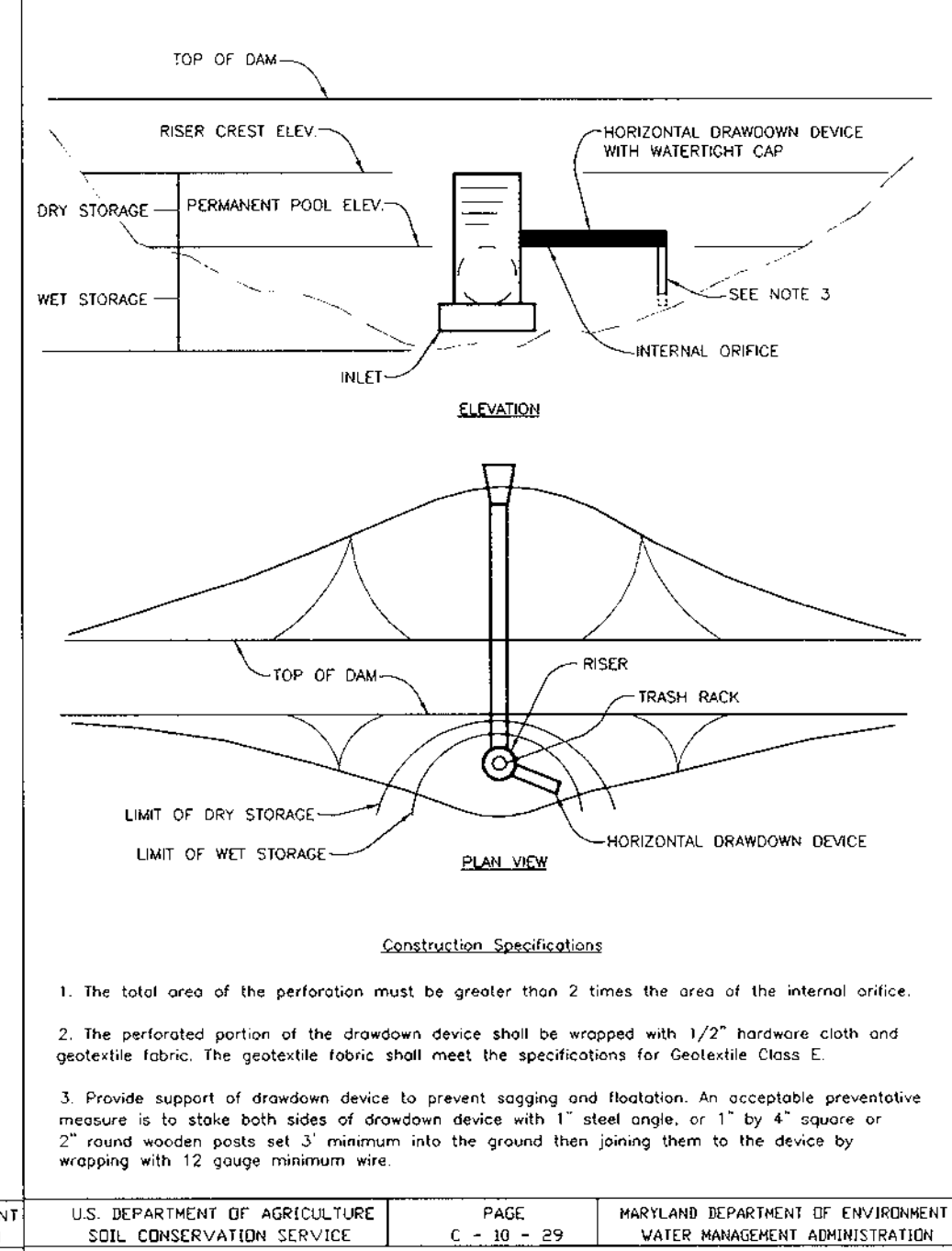
DETAIL 2 - TEMPORARY SWALE



DETAIL 33 - SUPER SILT FENCE



SEDIMENT TRAP AND BASIN DRAWDOWN SCHEMATIC HORIZONTAL DRAW DOWN DEVICE



SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING & DEMOLITION PERMITS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE SUPER SILT FENCE AND EARTH DIKE (8 DAYS).
- DEMOLISH EXISTING STRUCTURES, REMOVE EXISTING PAVING AND GRAVEL AS NECESSARY, PERFORM CLEARING.
- WITH PERMISSION OF HOWARD COUNTY DUMP SEDIMENT CONTROL INSPECTOR, PERFORM ROUGH GRADING, OBTAIN BUILDING PERMIT AND BEGIN BUILDING AND WALL CONSTRUCTION. (3 WEEKS)
- AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL UTILITIES INCLUDING STORM DRAINS, WATER AND SEWER. INSTALL INLET SEDIMENT TRAPS AS SHOWN (4 WEEKS)
- INSTALL CURBS AND BUTTER THEIR PAVES. UPON OBTAINING THE ACCESS PERMIT, INSTALL ROAD TO CONNECT WITH ROUTE 216. (3 WEEKS)
- APPLY TOPSOIL AND STABILIZE DISTURBED AREAS AS NECESSARY IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 DAYS)
- INSTALL LANDSCAPING SIGNS AND STRIPES, AND COMPLETE REMAINING BUILDING CONSTRUCTION. (4 MONTHS)
- UPON APPROVAL OF HOWARD COUNTY DUMP SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

John W. Sullivan 11/30/99
COUNTY HEALTH OFFICER DATE

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.

John W. Sullivan 11-3-99
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 8-10-99
ENGINEER DATE

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

Charles W. Sullivan 9/9/99
NATURAL RESOURCES CONSERVATION SERVICE DATE

John W. Sullivan 9/9/99
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John W. Sullivan 12/8/99
DIRECTOR DATE

Arthur E. Muegge 11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hamilton 12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO.	REVISION

OWNER / DEVELOPER: ASTON PROPERTIES, 6525 MORRISON BLVD., SUITE 300, CHARLOTTE, NC 28211, (704) 366-7397

PROJECT: FOOD LION P-3000

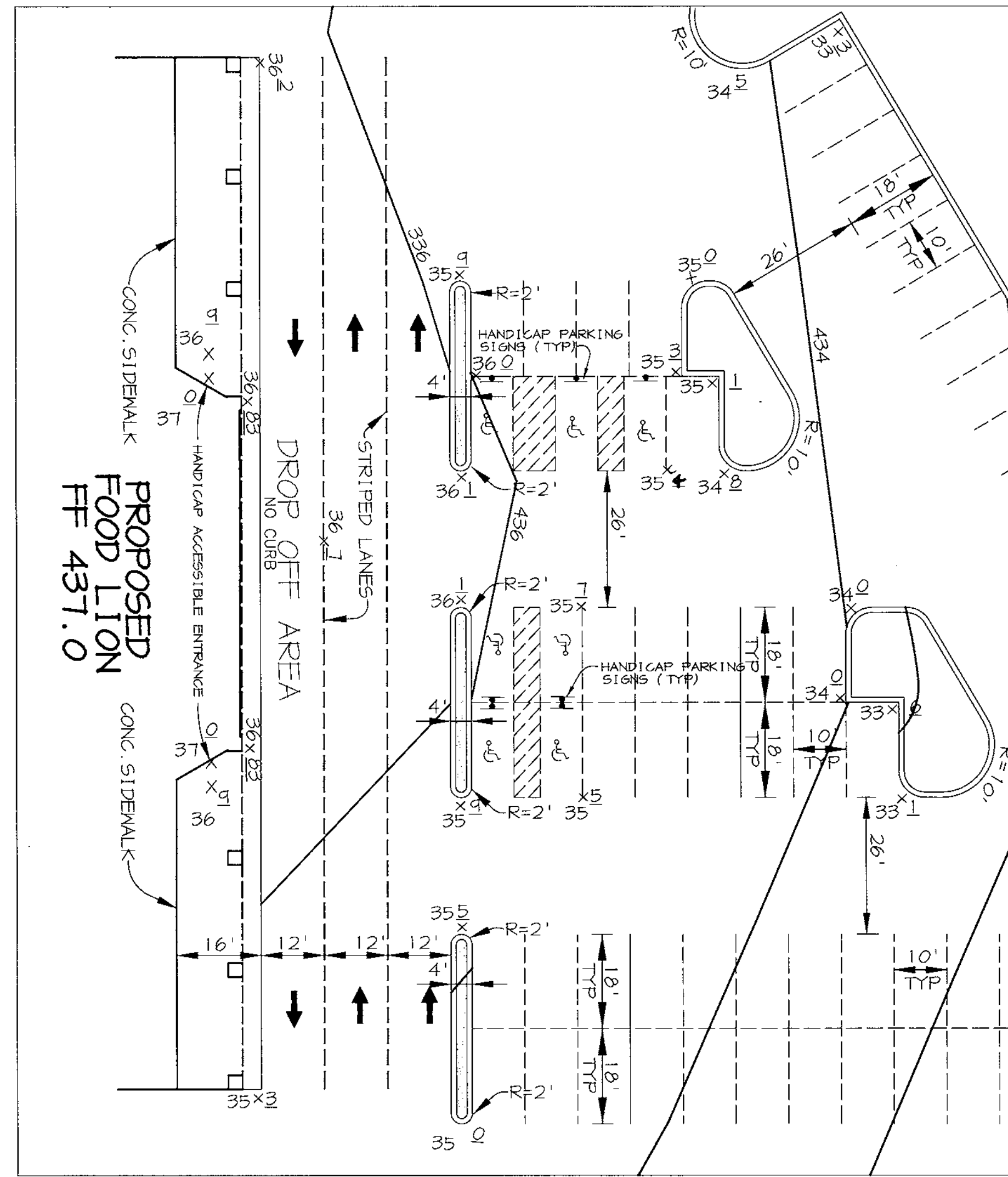
AREA: PARCEL 240, TAX MAP 46, BLOCK 4, 5TH ELECTION DISTRICT, ZONED B-2, HOWARD COUNTY, MARYLAND

TITLE: DETAILS AND NOTES

RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
tel 410.967.8900 fax 410.967.9282

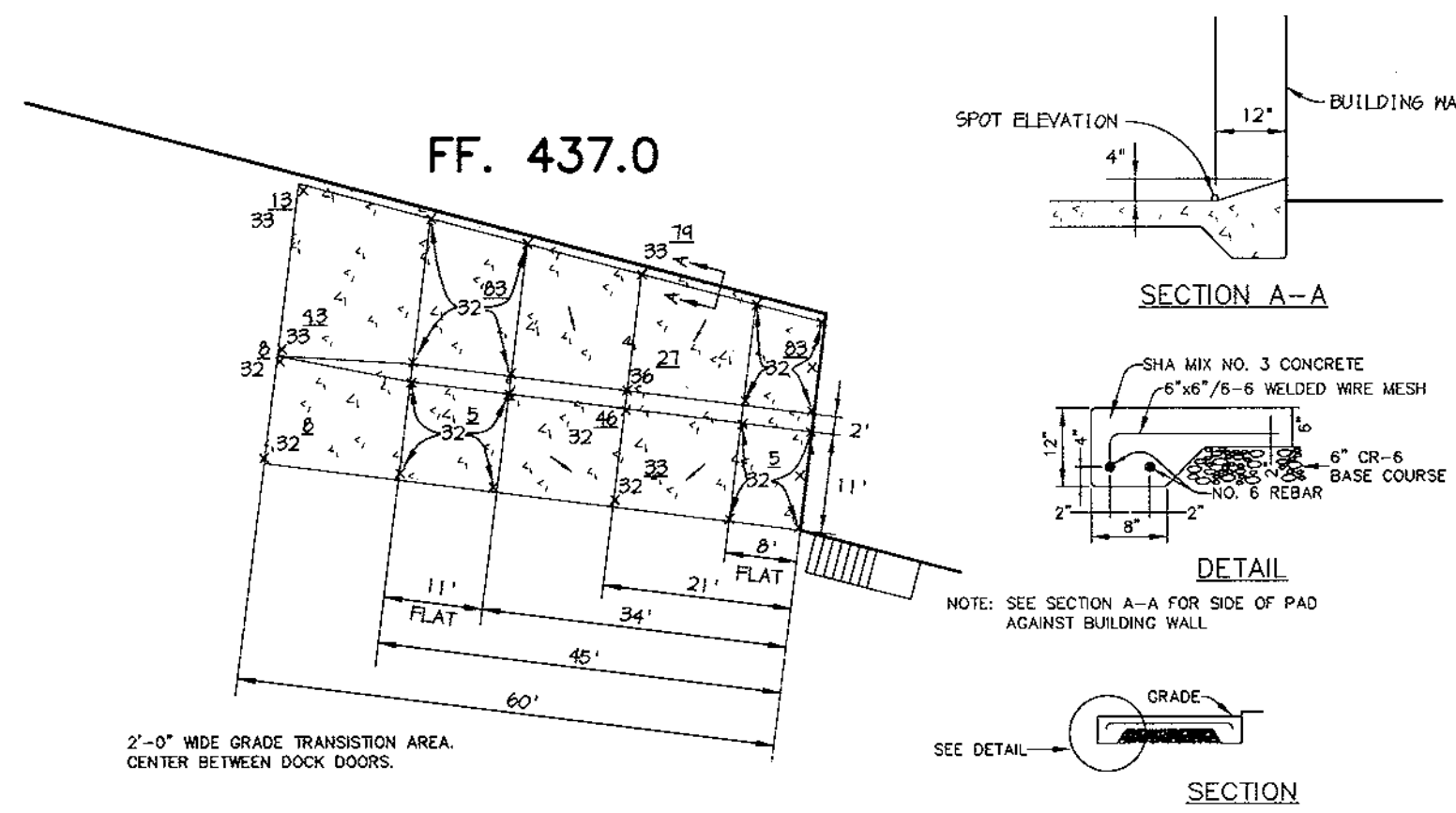
DESIGNED BY: C.J.R.
DRAWN BY: DRD
PROJECT NO: 98372
SDP-DWG
DATE: NOVEMBER 4, 1999
SCALE: AS SHOWN
DRAWING NO. 7 OF 10

ARTHUR E. MUEGGE #8707



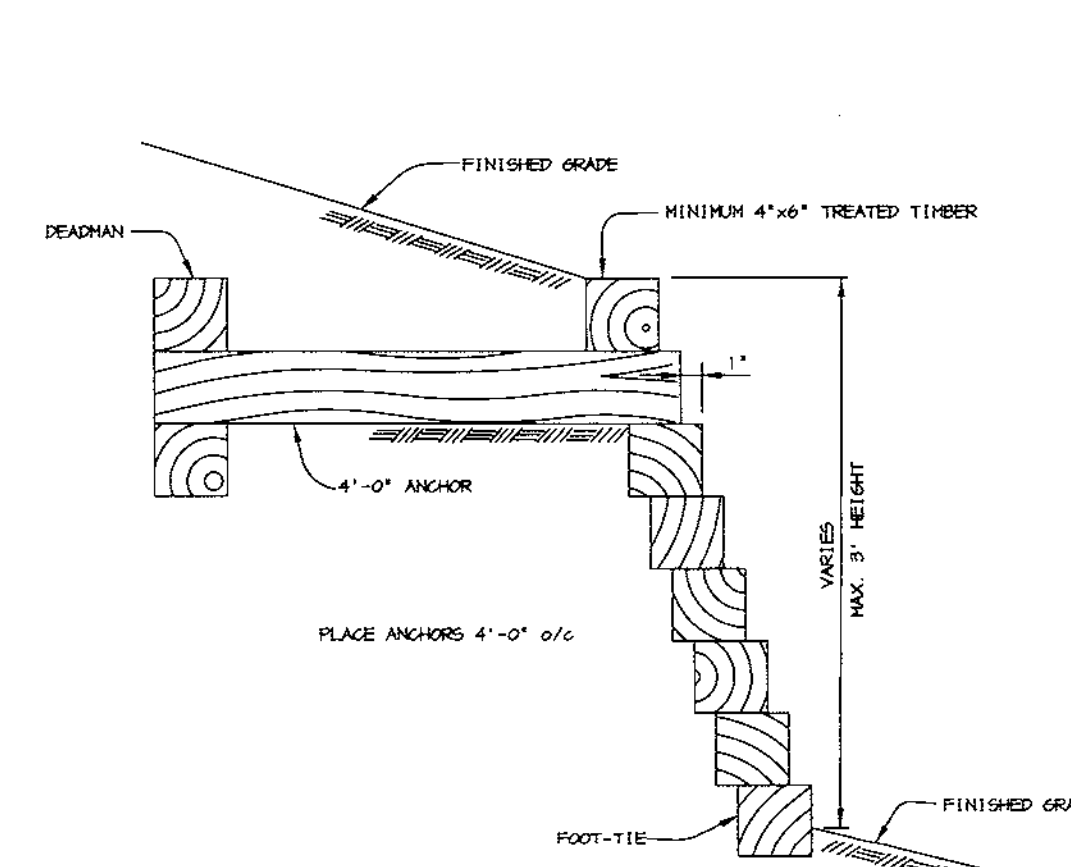
ENTRANCE DROP OFF DETAIL

SCALE: HOR. - 1" = 20'



LOADING AREA CONCRETE PAD DETAILS

NO SCALE



RETAINING WALL DETAIL

NO SCALE

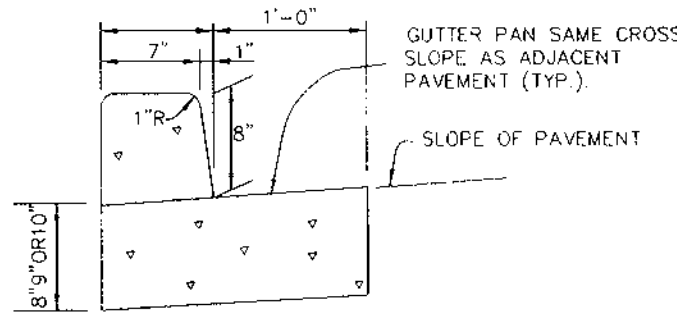
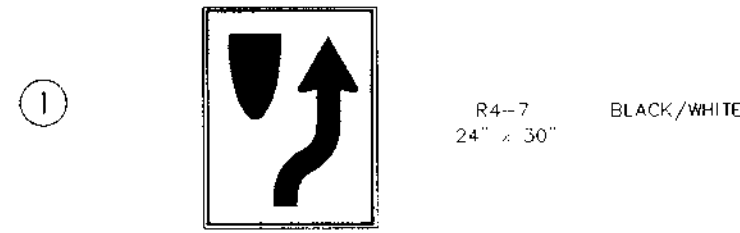
APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Don Muegge</i>	11/23/99
COUNTY HEALTH OFFICER	DATE
APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>David Smith</i>	12/8/99
DIRECTOR	DATE
<i>Arthur E. Muegge</i>	11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Cindy Harvath</i>	12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

DATE	NO.	REVISION
OWNER / DEVELOPER		
ASTON PROPERTIES 6525 MORRISON BLVD., SUITE 300 CHARLOTTE, NC 28211 (704) 366-7337		
PROJECT		
FOOD LION P-3000		
AREA		
PARCEL 240 TAX MAP 46, BLOCK 4 5th ELECTION DISTRICT ZONED B-2 HOWARD COUNTY, MARYLAND		
TITLE		
NOTES & DETAILS		

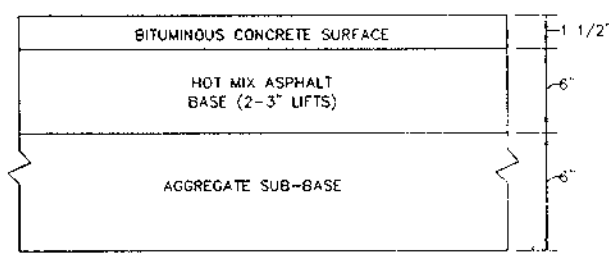
RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 tel 410.967.8900 fax 410.967.8282

	DATE	DESIGNED BY :	C.J.R.
		DRAWN BY:	DRD
		PROJECT NO :	98372
		DATE :	NOVEMBER 4, 1999
		SCALE :	AS SHOWN
ARTHUR E. MUEGGE #8702		DRAWING NO. :	8 OF 10

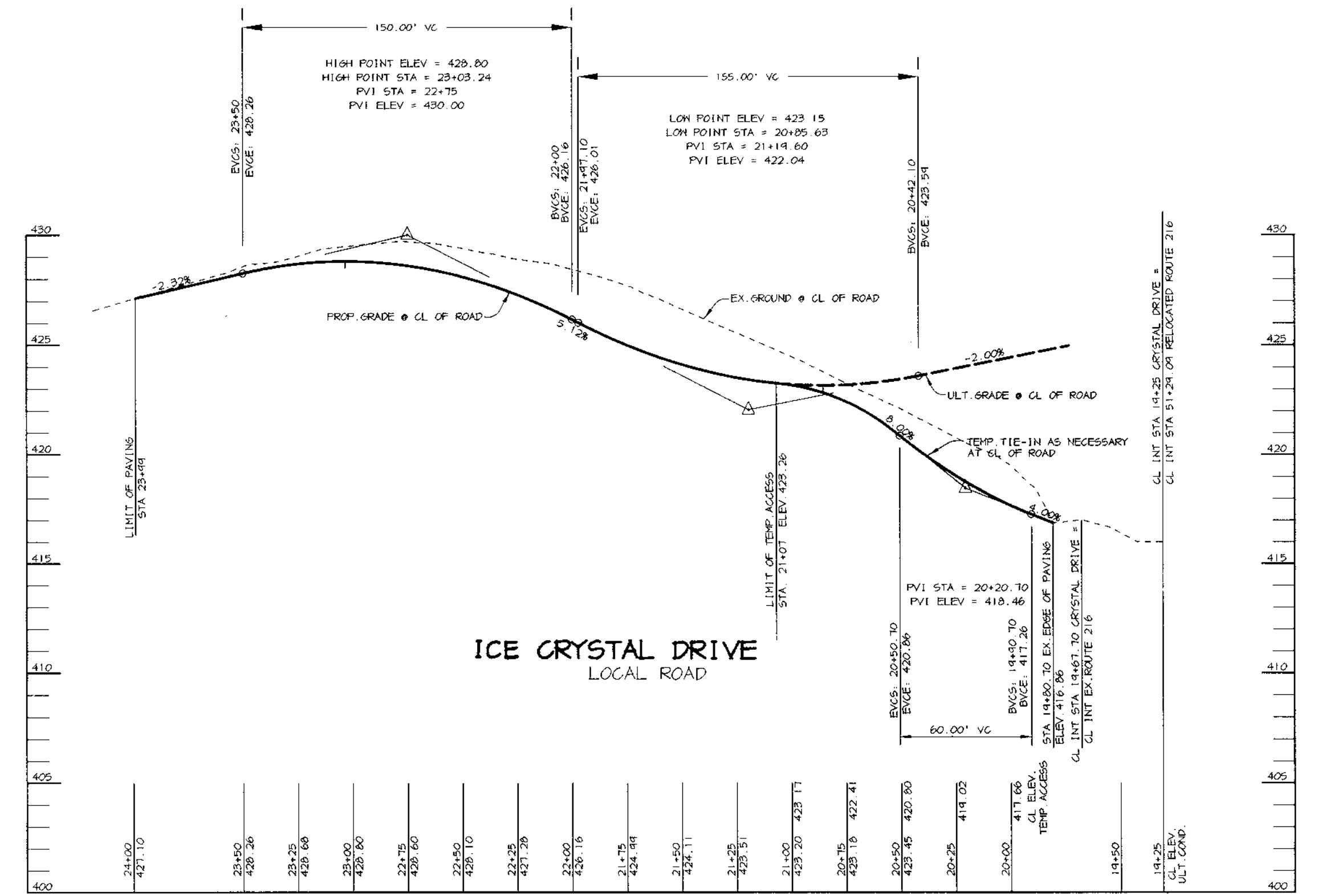
SIGN NO. DESCRIPTION SIZE REMARKS



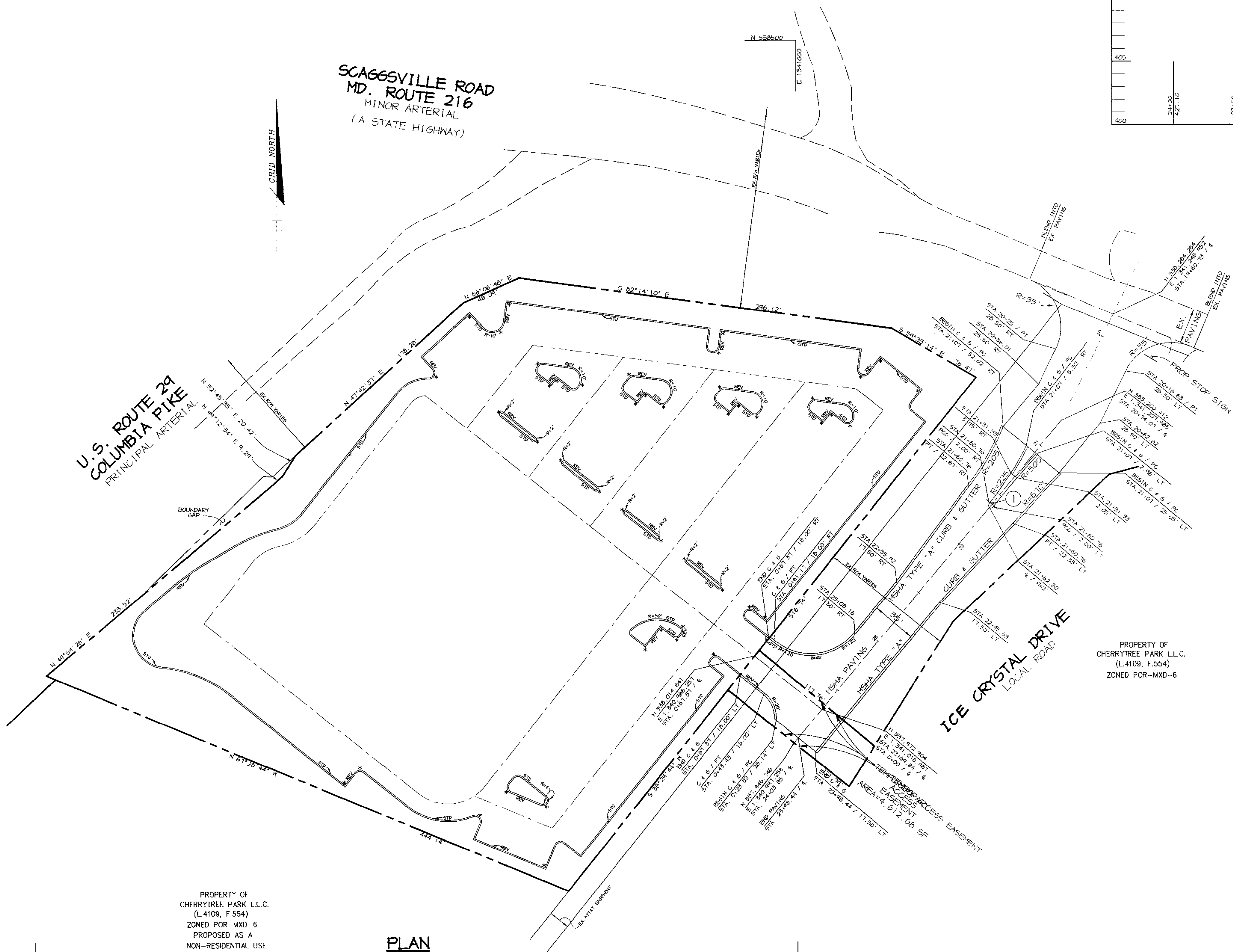
M.S.H.A. TYPE 'A' CURB AND GUTTER
NO SCALE



M.S.H.A. PAVING SECTION
NO SCALE



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



PROPERTY OF
CHERRYTREE PARK L.L.C.
(L.4109, F.554)
ZONED POR-MXD-6
PROPOSED AS A
NON-RESIDENTIAL USE

PLAN
SCALE:
HOR. - 1" = 50'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Dina Matusz 11/23/99
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

James S. Batts 12/8/99
DIRECTOR DATE

Chris Drummond 11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Hanula 12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DATE NO. REVISION

OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD., SUITE 300
CHARLOTTE, NC 28211
(704) 366-7337

PROJECT
FOOD LION P-3000

AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT, ZONED B-2
HOWARD COUNTY, MARYLAND

TITLE
ROUTE 216 IMPROVEMENT PLAN

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

	DESIGNED BY: C.J.R.
	DRAWN BY: DRD
	PROJECT NO: 98372 SDP9.DWG
	DATE: NOVEMBER 4, 1999
	SCALE: AS SHOWN
ARTHUR E. MUEGGE #8707	DRAWING NO. 9 OF 10

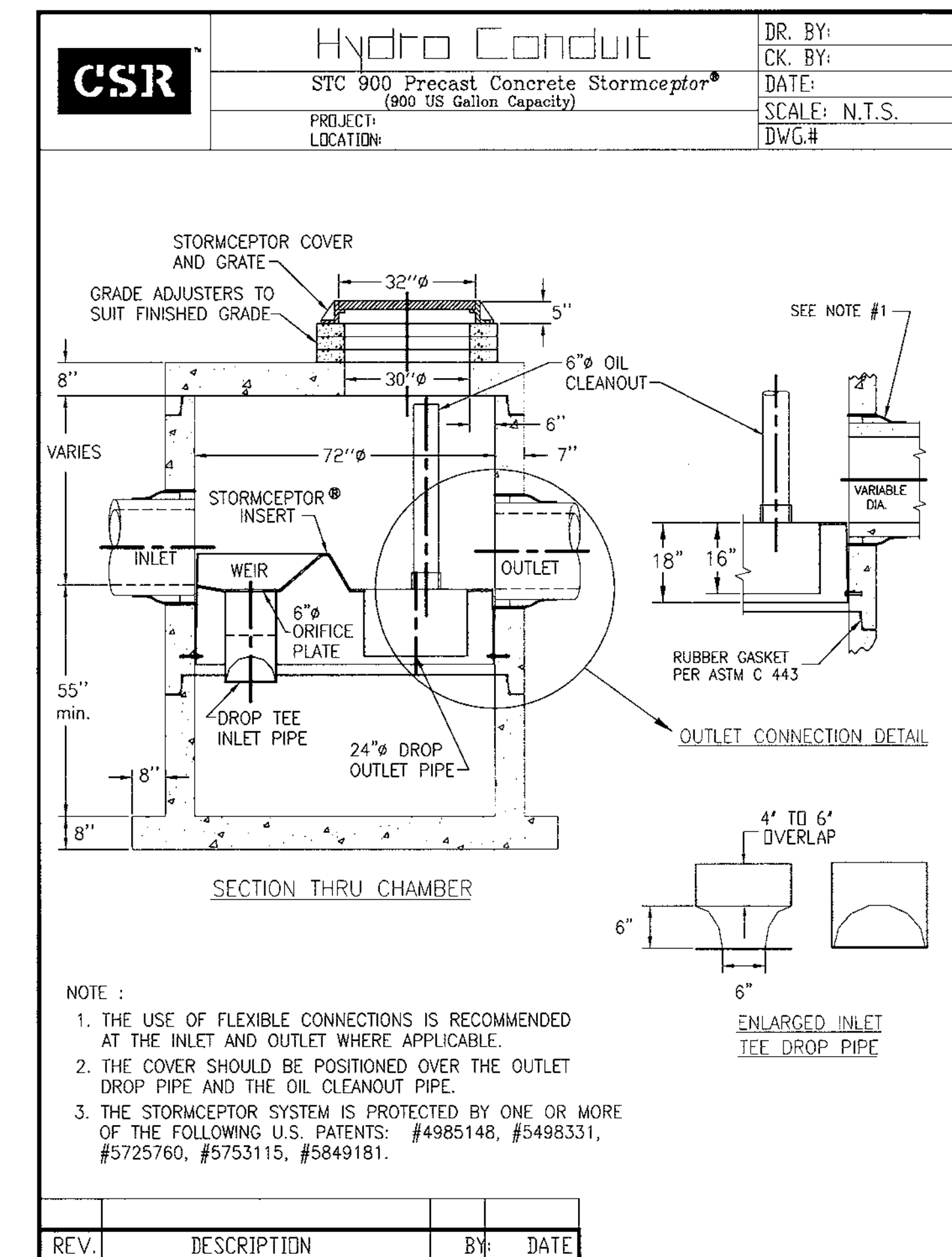
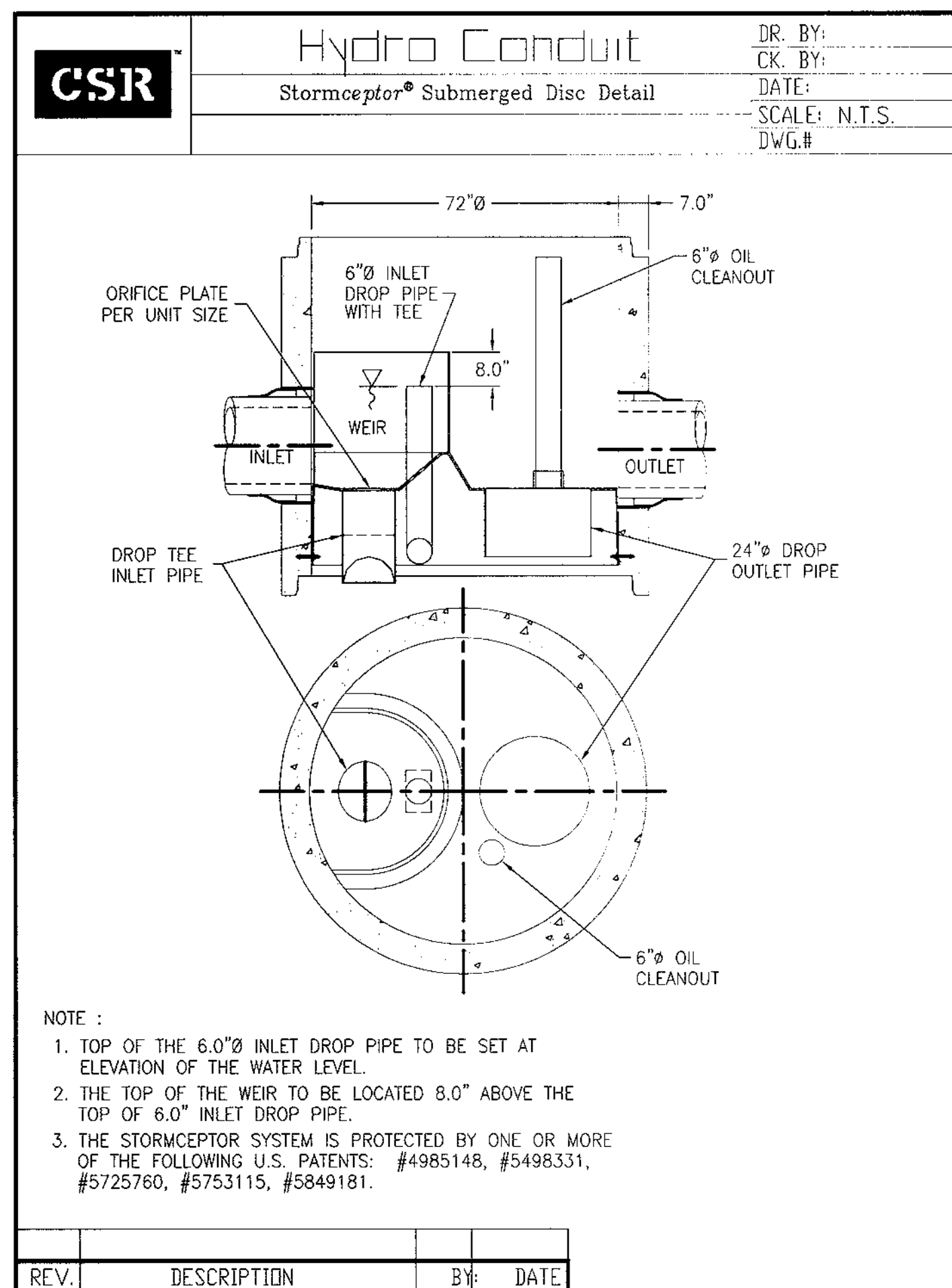
CONTRACTOR INSTALLATION PROCEDURE FOR STORMCEPTOR (STC900)

- STAKE-OUT THE LOCATION OF THE INLET STORMCEPTOR AND EXCAVATE HOLE. EXCAVATE ADEQUATE SPACE TO CONNECT INLET AND OUTLET PIPES TO UNIT. INSTALL A 12" DEEP (OR AS REQUIRED) LAYER OF COMPACTED AGGREGATE SUBBASE AT BOTTOM OF EXCAVATION.
- CHECK ELEVATION OF UNIT BY MEASURING ITS SECTIONS FROM THE BASE OF THE STORAGE CHAMBER (BOTTOM OF BASE SLAB) TO THE INVERT OF THE UNIT BYPASS CHAMBER OUTLET ELEVATION (FIBERGLASS INSERT). SUBTRACT THIS DISTANCE FROM DESIGN OUTLET ELEVATION TO DETERMINE TOP OF SUBBASE ELEVATION. CHECK ELEVATION OF INSTALLED SUBBASE AND ADJUST AS NEEDED.
- SECURE INSPECTOR APPROVAL OF SUBGRADE AND SUBBASE.
- INSTALL STORAGE CHAMBER. ATTACH CABLES OR CHAINS TO THE THREE PULLING IRONS ON THE BASE SLAB USING LARGE EQUIPMENT OR CRANE. LIFT AND PLACE THE BASE SECTION OF THE STORAGE CHAMBER IN THE EXCAVATED HOLE ON THE SUBBASE. MAKE SURE THE BASE IS LEVEL. SPECIFIC ALIGNMENT OF THIS PART IS NOT REQUIRED. INSTALL RUBBER GASKET ON THE BASE UNIT AND APPLY LUBRICATING SOAP (PROVIDED IN SHIPMENT).
- INSTALL BYPASS CHAMBER OF INLET STORMCEPTOR WITH FACTORY INSTALLED INSERT. LIFT BYPASS SECTION, LUBRICATE BELL, AND INSTALL WHILE CHECKING ALIGNMENT AND GRADE OF OUTLET DRAINAGE PIPE. CHECK AND MAKE SURE BYPASS CHAMBER IS SET FLUSH, LEVEL, AND IS AT THE PROPER ELEVATION. INSTALL RUBBER GASKET ON TOP OF BYPASS RISER AND LUBRICATE.
- INSTALL INLET AND OUTLET STORM DRAIN PIPES. CONNECT PIPE WITH FLEXIBLE BOOTS (WHEN PROVIDED) AND WITH NON-SHRINK GROUT WHEN FLEXIBLE BOOTS ARE NOT PROVIDED. THE INVERT OF THE OUTLET PIPE IS TO MATCH THE INVERT OF THE STORMCEPTOR INSERT. FLEXIBLE BOOT INSTALLATION PROCEDURES: CENTER THE PIPE IN THE BOOT OPENING. LUBRICATE THE OUTSIDE OF THE PIPE AND/OR THE INSIDE OF THE BOOT. POSITION THE PIPE CLAMP IN THE GROOVE OF THE BOOT WITH THE SCREW AT THE TOP. TIGHTEN THE PIPE CLAMP WHILE ENSURING EVEN CONTRACTION OF THE RUBBER.
- INSTALL INLET DOWN PIPE WITH HANDLE AND 4" VENT PIPE ACCORDING TO INSTALLATION INSTRUCTIONS FOR INLET STORMCEPTOR MODEL STC900.
- INSTALL RISER SECTION. ALIGN STEPS ABOVE INLET (12") DOWN PIPE. NOTE, FOR SHALLOW INSTALLATIONS THIS SECTION MAY NOT BE REQUIRED.
- INSTALL FLATTOP WITH OPENING FOR STORMCEPTOR FRAME AND GRATE ORIENTED ABOVE THE STORMCEPTOR 12" INLET DOWN PIPE.
- BACKFILL STORMCEPTOR WITH APPROVED BACKFILL MATERIAL (NO ORGANIC OR TOPSOIL IS TO BE USED FOR BACKFILL). BACKFILL AND COMPACT IN 8" LIFTS. BACKFILL SHOULD BE COMPACTED TO LOCAL/STATE REQUIREMENTS.
- INSTALL AND SET GRADE ADJUSTING RINGS, AS NEEDED.
- INSTALL AND SET FRAME AND GRATE.
- THE STORMCEPTOR SHOULD BE PUMPED OUT WHEN SEDIMENT CONTROL MEASURES ARE REMOVED (SITE PERMANENTLY STABILIZED).
- FINAL INSPECTION.

FOR TECHNICAL INFORMATION CALL CSR HYDRO CONDUIT AT (301) 698-7373 OR STORMCEPTOR CORPORATION AT 1-800-762-4703

OPERATION AND MAINTENANCE SCHEDULE FOR INLET STORMCEPTOR STC900

- THE STORMCEPTOR WILL REQUIRE PERIODIC INSPECTION AND CLEANING TO MAINTAIN OPERATION AND EFFECTIVENESS. OWNERS WILL INSPECT THE UNIT YEARLY OR AS REQUIRED BY THE MUNICIPALITY, UTILIZING THE STORMCEPTOR INSPECTION MONITORING FORM. INSPECTIONS CAN BE DONE BY USING A CLEAR FLEXIGLAS TUBE ("SLUDGE JUDGE") TO EXTRACT A WATER COLUMN SAMPLE. WHEN SEDIMENT DEPTHS EXCEED EIGHT (8) INCHES, CLEANING OF THE UNIT IS REQUIRED.
- INLET AND OUTLET PIPES MUST BE CHECKED FOR ANY OBSTRUCTIONS AND IF ANY OBSTRUCTIONS ARE FOUND, THEY MUST BE REMOVED.
- THE STORMCEPTOR MUST BE CHECKED AND CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. CONTACT APPROPRIATE REGULATORY AGENCIES.
- MAINTENANCE OF THE STORMCEPTOR UNITS SHOULD BE PERFORMED BY A VACUUM TRUCK WHICH WILL REMOVE THE WATER, SEDIMENT, DEBRIS, FLOATING HYDROCARBONS, AND OTHER MATERIALS IN UNIT. THE PROPER CLEANING AND DISPOSAL OF THE REMOVED MATERIALS AND LIQUID MUST BE FOLLOWED.
- OWNER SHALL RETAIN AND MAKE THE STORMCEPTOR INSPECTION/MONITORING FORMS AVAILABLE TO MUNICIPALITY OFFICIALS UPON REQUEST.



Precast Concrete Order Request Form

CONTRACTOR INFORMATION

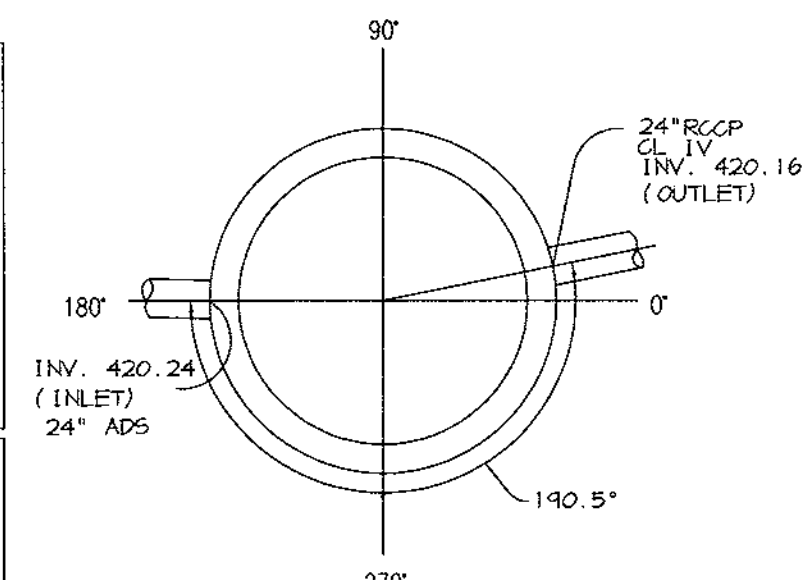
Name _____
 Address _____
 City _____
 State _____
 Zip Code _____
 Contact _____
 Phone _____
 Fax _____

OWNER INFORMATION

Name ASTON PROPERTIES
 Phone (704) 366-7337
 Fax _____

IMPERVIOUS DRAINAGE AREA FOR THIS UNIT

Stormceptor® Model	Insert Size
450 <input type="checkbox"/>	SINGLE INLET DISC <input checked="" type="checkbox"/>
900 <input checked="" type="checkbox"/>	MULTIPLE INLET DISC <input type="checkbox"/>
1200 <input type="checkbox"/>	450 DISC <input type="checkbox"/>
1800 <input type="checkbox"/>	6000 <input type="checkbox"/>
2400 <input type="checkbox"/>	7200 <input type="checkbox"/>



Manhole Number	1-3
Top Elevation (ft)	424.40
Inlet Pipe Invert (ft)	420.24
Outlet Pipe Invert (ft)	420.16
Pipe Type	ADS N-12 (INLET) RSCP CL. IV (OUTLET)
Inlet Pipe Inside Diameter (ID)	24"
Inlet Pipe Outside Diameter (OD)	-
Outlet Pipe Inside Diameter (ID)	24"
Outlet Pipe Outside Diameter (OD)	-

Project Name FOOD LION P-3000
 Approximate time frame of delivery (weeks) _____
 Delivery Address: Street _____
 City: SCAGGSVILLE State: MARYLAND Zip Code _____
 Designer Company RIEMER MUEGGE AND ASSOCIATES, INC.
 Designer Contact CHRIS REID Phone (410) 947-8900 Fax _____

PLEASE FILL OUT COMPLETELY AND FAX TO: **CSR** Hydro Conduit
 ATTN: JAMES TAYLOR FAX: (301) 698-5351, PHONE: (301) 698-7373
 FOR TECHNICAL ASSISTANCE PLEASE CALL JAMES TAYLOR, PHONE (301) 698-7373 EXT 228

PURPOSE STATEMENT
 THIS PLAN PROVIDES THE DETAILS AND SPECIFICATIONS FOR THE STORMCEPTOR INLET THAT HAS ADDED TO THE SITE PLAN AS PER REDLINE REVISION #2 DATED 10/4/00.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

John S. Smith 10/19/00
 DIRECTOR DATE
Chris Reid 10/19/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE
Chris Reid 10/17/00
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10/4/00 MODIFIED I-3, ADDED M-2, ADDED SHEET 11
 DATE NO. REVISION

OWNER / DEVELOPER
 ASTON PROPERTIES
 6525 MORRISON BLVD., SUITE 300
 CHARLOTTE, NC 28211
 (704) 366-7337

PROJECT **FOOD LION P-3000**

AREA
 PARCEL 240
 TAX MAP 46, BLOCK 4
 5th ELECTION DISTRICT ZONED B-2
 HOWARD COUNTY, MARYLAND

TITLE
DETAILS & NOTES
REVISED SITE DEVELOPMENT PLAN

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

10/19/00
 DATE
 DESIGNED BY: C.J.R.
 DRAWN BY: K.C.B.
 PROJECT NO: 98372
 DATE: OCTOBER 9, 2000
 SCALE: AS SHOWN
 DRAWING NO. 11 OF 11

SITE DEVELOPMENT PLAN

FOOD LION P-3000

GROCERY STORE

6th ELECTION DISTRICT

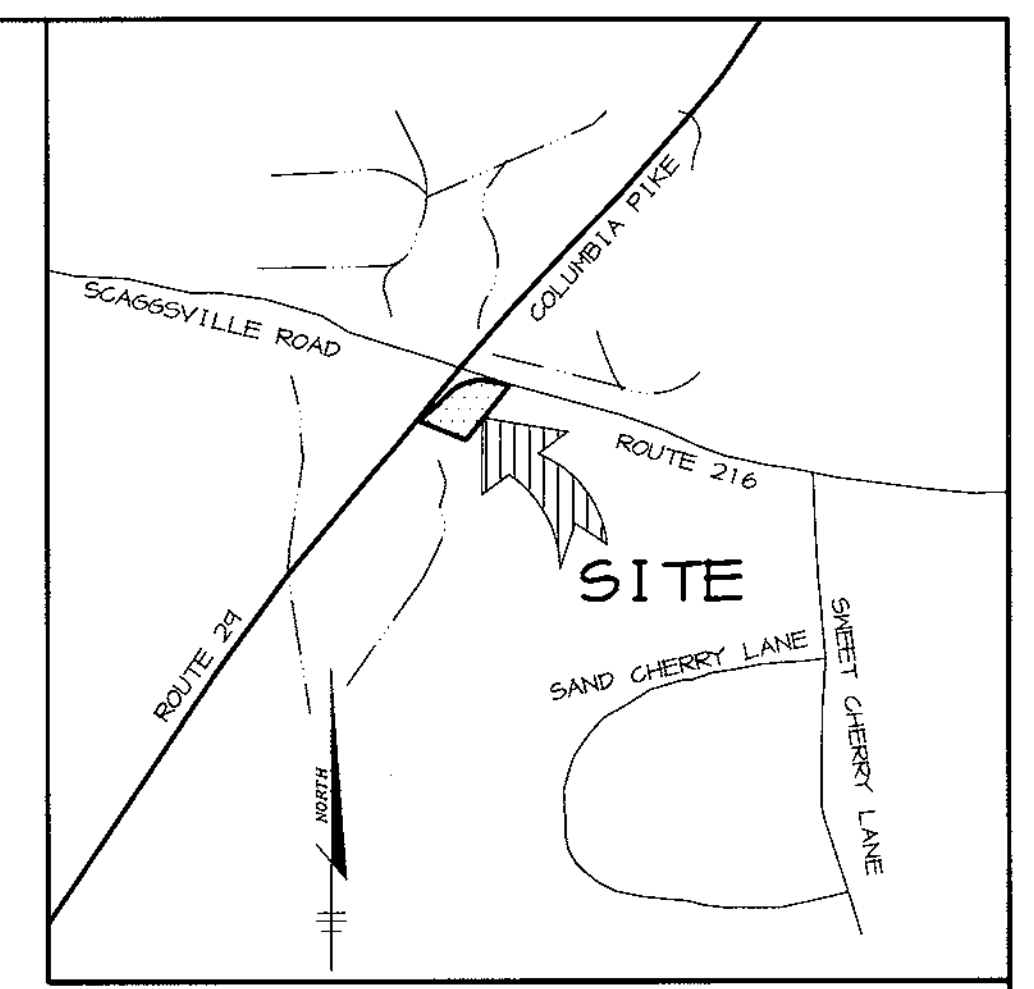
HOWARD COUNTY, MARYLAND

SHEET INDEX	
1	TITLE SHEET
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	SITE DEVELOPMENT PLAN
4	SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP
5	ULTIMATE SITE DEVELOPMENT PLAN
6	PROFILE & DETAIL PLAN
7	DETAILS & NOTES
8	DETAILS & NOTES
9	ROUTE 216 IMPROVEMENT PLAN
10	LANDSCAPE PLAN
11	DETAILS & NOTES

GENERAL NOTES

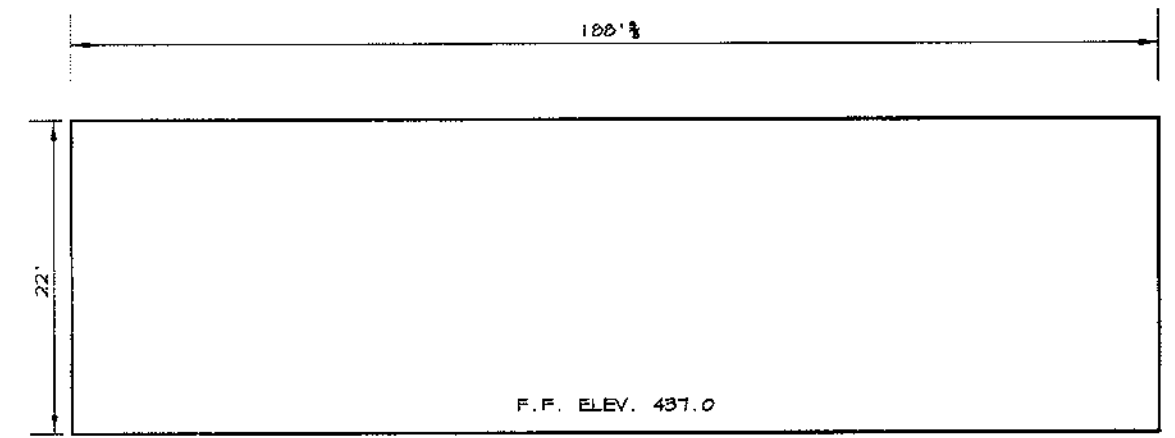
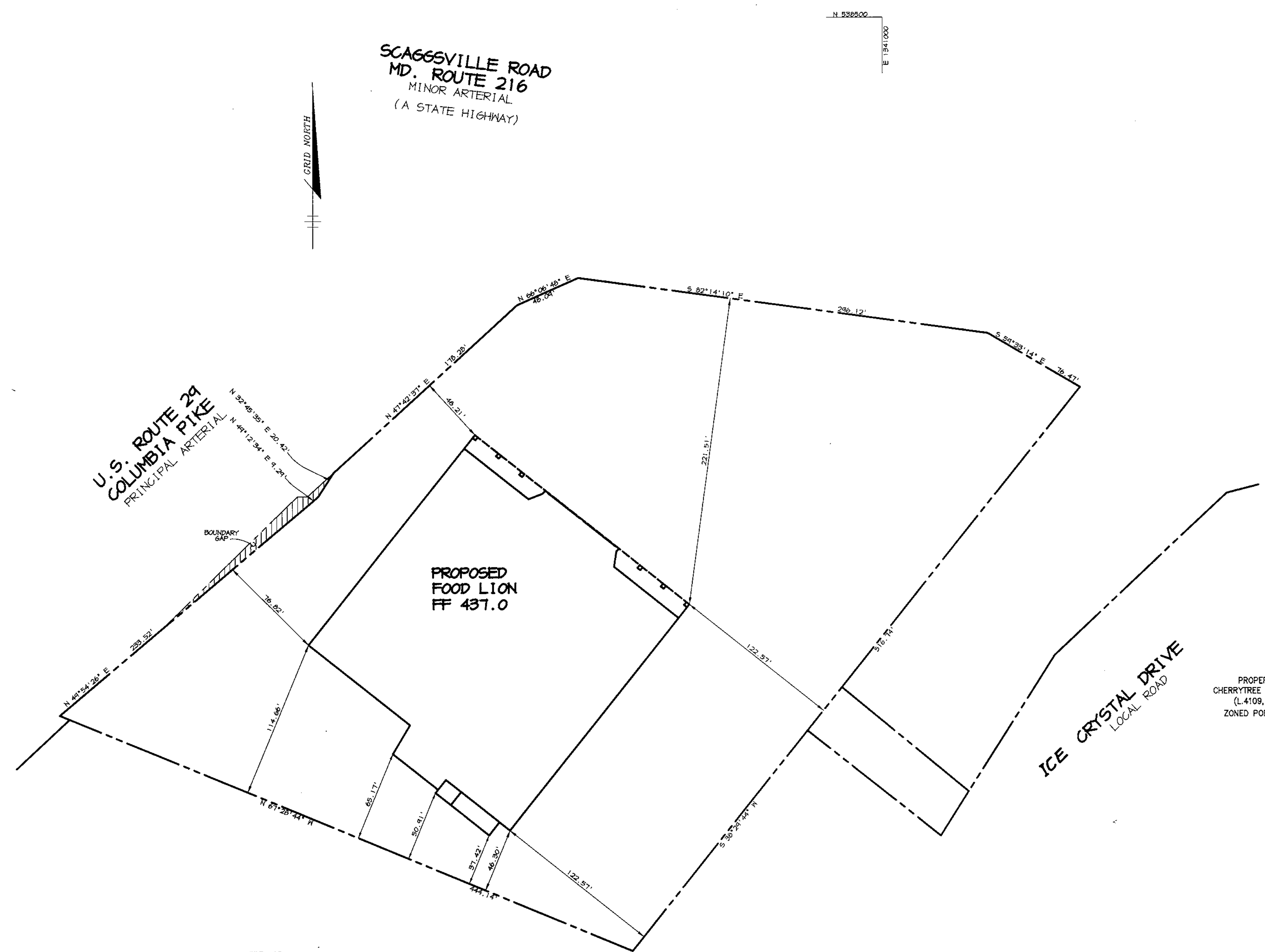
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOC. DATED OCTOBER, 1998.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. STATION NUMBERS 46BA AND 46E3 WERE USED.
- WATER IS PUBLIC, CONTRACT NO. 24-3758-D
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: PATUXENT TREATMENT PLANT: LITTLE PATUXENT WWTP CONTRACT NO. 24-3758-D
- STORMWATER MANAGEMENT IS PROVIDED BY THE PROPOSED STATE HIGHWAY ADMINISTRATION'S OFF-SITE FACILITY VIA AN AGREEMENT BETWEEN SHA AND THE DEVELOPER.
- 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.
- THE TRAFFIC STUDY FOR THIS PROJECT WAS PERFORMED BY STREET TRAFFIC STUDIES, LTD. AND IS DATED
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A GEOTECHNICAL STUDY IS NOT REQUIRED FOR THIS PROJECT.
- THE BOUNDARY SURVEY FOR THIS PROJECT WAS PERFORMED BY RIEMER MUEGGE & ASSOCIATES, INC. DATED
- SUBJECT PROPERTY ZONED B-2 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S SDP-97-70, F-99-196.
- 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.
- 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.
- 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 T100.
- THERE ARE NO WETLANDS ON-SITE FOR THIS PROJECT BASED ON A FIELD INSPECTION.
- PARCELS 240 AND 45 WERE CONSOLIDATED VIA DEED L3871 F.240, A SUBDIVISION PLAT WILL BE RECORDED TO LEGALLY CONSOLIDATE THE PARCELS.
- PROPER ABANDONMENT OF ALL EXISTING WELL AND SEPTIC SYSTEMS TO BE COMPLETED PRIOR TO START OF GRADING. DOCUMENTATION TO BE SUBMITTED TO THE HEALTH DEPARTMENT FOR SAUC.
- THE FOREST CONSERVATION ORDINANCE HAS BEEN COMPLIED WITH IN ACCORDANCE WITH SECTION 16.1210 FEE-IN-LIEU. SEE F-99-196 PLAT # 14010.

BENCHMARKS
 HO. CO. SURVEY CONTROL STATION: 46BA
 N 537,546 E 1,339,849
 HO. CO. SURVEY CONTROL STATION: 46E3
 N 535611 E 1,337,428



VICINITY MAP
SCALE: 1" = 2000'

SITE ANALYSIS	
AREA OF SITE	4.8280 ACRES (210,308 SF)
DISTURBED AREA	6.10 ACRES (265,716 SF)
PRESENT ZONING	B-2
PROPOSED USE	GROCERY/RETAIL
BUILDING COVERAGE (GROCERY STORE) GROSS FLOOR AREA	38,714 SF, NET LEASABLE 33,000 SF
# OF PARKING SPACES REQUIRED @ 5.0 SP/1000 SF	194 SPACES
# OF PARKING SPACES PROVIDED	199 SPACES
PAVED AREA	109,273 SF (52% OF SITE)



BUILDING ELEVATION
NO SCALE

ADDRESS CHART	
PARCEL	STREET ADDRESS
A	8300 ICE CRYSTAL DRIVE

SUBDIVISION NAME:	FOOD LION P-3000	SECT./AREA:	240
RECORDED PLAT #:	14010 F-99-196	BLOCK #:	4
WATER CODE:	E18	SEWER CODE:	7602000
ZONE:	B-2	TAX MAP NO.:	46
ELECT. DIST.:	5th	CENSUS TRACT:	6068.02

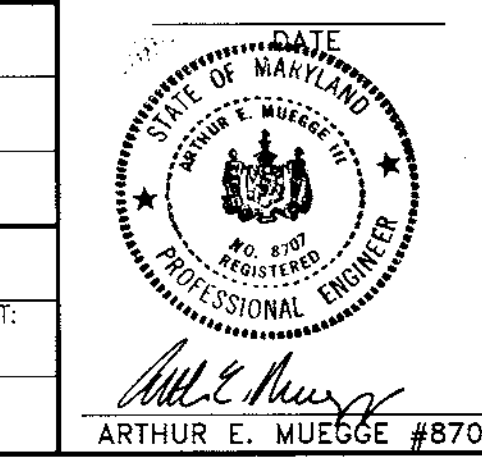
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	<i>Dina M. ...</i>	11/30/99	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	<i>...</i>	12/6/99	DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION	<i>...</i>	11/15/99	DATE
CHIEF, DIVISION OF LAND DEVELOPMENT	<i>...</i>	12/1/99	DATE

10-4-00	ADDED SHEET !!
DATE NO.	REVISION
OWNER / DEVELOPER	ASTON PROPERTIES 6525 MORRISON BLVD. SUITE 300 CHARLOTTE, NC 28211 (704) 366-1337

PROJECT	FOOD LION P-3000
AREA	PARCEL A PARCEL 240 TAX MAP 46, BLOCK 4 5th ELECTION DISTRICT ZONED B-2 HOWARD COUNTY, MARYLAND
TITLE	TITLE SHEET

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21045
 tel 410.987.8900 fax 410.987.8282

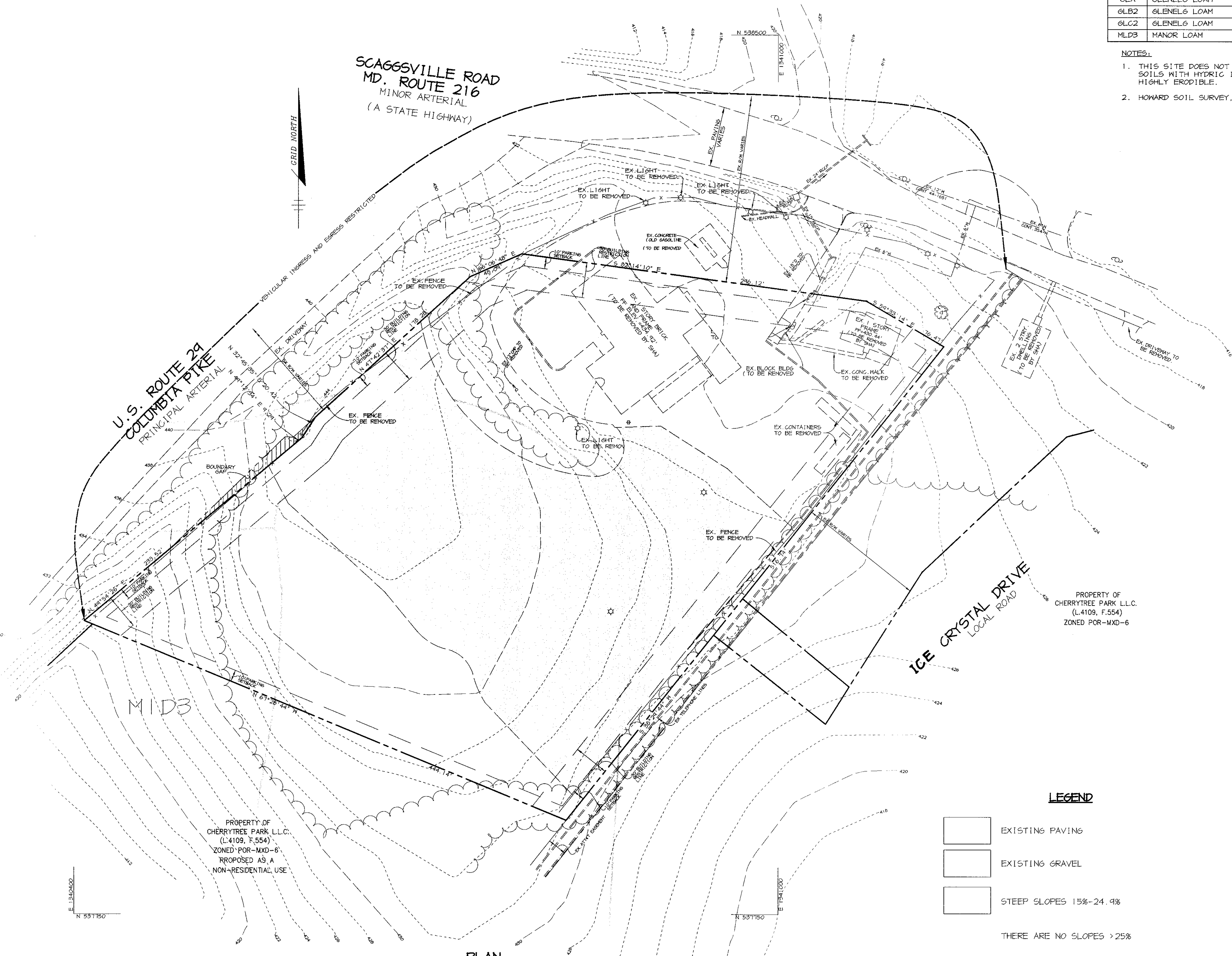
DESIGNED BY:	C.J.R.
DRAWN BY:	DRD
PROJECT NO:	98372 SDP1.DWG
DATE:	NOVEMBER 4, 1999
SCALE:	AS SHOWN
DRAWING NO.:	1 OF 11



M:\PROJECT\98372\SDP1.DWG Mon Aug 03 13:18:17 1999 RIEMER MUEGGE & ASSOCIATES, INC.

SOILS CHART				
MAP SYMBOL	NAME	TYPE	SLOPE (%)	EROSION POTENTIAL
GLA	GLENEL6 LOAM	B	0-3	-
GLB2	GLENEL6 LOAM	B	3-8	MODERATE
GLC2	GLENEL6 LOAM	B	8-15	MODERATE
MLD3	MANOR LOAM	B	15-25	SEVERE

NOTES:
 1. THIS SITE DOES NOT INCLUDE SOILS DESIGNATED AS HYDRIC OR SOILS WITH HYDRIC INCLUSIONS; SOILS ARE NOT CLASSIFIED AS HIGHLY ERODIBLE.
 2. HOWARD SOIL SURVEY, MAP NUMBER 23



K:\PROJECT\98372\SDP2.DWG Mod Aug 09 13 45:23 1999 RIEMER MUEGGE & ASSOCIATES, INC.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Dina M. M... 11/30/99
 COUNTY HEALTH OFFICER
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
... 12/18/99
 DIRECTOR
... 4/15/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
... 12/7/99
 CHIEF, DIVISION OF LAND DEVELOPMENT

10:400/2 ADDED SHEET II
 DATE NO. REVISION
 OWNER / DEVELOPER
 ASTON PROPERTIES
 6525 MORRISON BLVD. SUITE 300
 CHARLOTTE, NC 28211
 (704) 366-1931

PROJECT
FOOD LION P-3000
 AREA
 PARCEL 240
 TAX MAP 46, BLOCK 4
 5th ELECTION DISTRICT ZONED B-2
 HOWARD COUNTY, MARYLAND

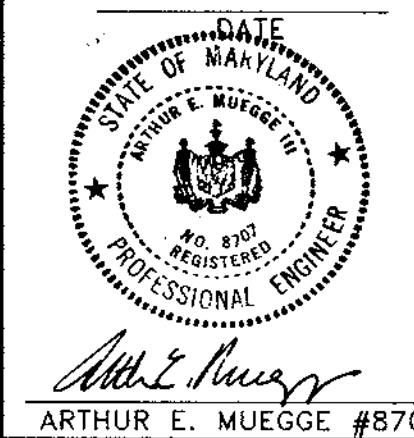
TITLE
EXISTING CONDITIONS, SOILS MAP & DEMOLITION PLAN

RIEMER MUEGGE & ASSOCIATES INC
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21045
 tel 410.997.8800 fax 410.997.9282






DESIGNED BY: C.J.R.
 DRAWN BY: DRD
 PROJECT NO.: 98372
 SDP2.DWG
 DATE: NOVEMBER 4, 1999
 SCALE: 1" = 40'
 DRAWING NO. 2 OF 11

LEGEND
 [Symbol] EXISTING PAVING
 [Symbol] EXISTING GRAVEL
 [Symbol] STEEP SLOPES 15%-24.9%
 THERE ARE NO SLOPES > 25%

PLAN
 SCALE: 1"=40'



LEGEND

-  P-1 PAVING
-  P-3 PAVING
-  SITE LIGHT (SINGLE) - SEE NOTE 1.
-  BOLLARDS - SEE ARCHITECTURAL DRAWINGS
-  250-WATT STREET LIGHT MOUNTED AT 30' ON A BRONZE FIBERGLASS POLE USING A 12' ARM.

NOTES

1. STREET LIGHTS TO BE 150 WATT VAPOR PENDANT FIXTURES MOUNTED AT 30' WITH BRONZE FIBERGLASS POLE AND 12' ARM. SITE LIGHTS TO BE 1000 WATT METAL HALIDE VERTICAL LAMPS ON SHOEBOXES ON 2'-6" BASE WITH 34' POLE (SINGLE, DOUBLE, OR QUAD). ALL LIGHTING SHALL BE DIRECTED/REFLECTED AWAY FROM ADJACENT PUBLIC ROADS AND RESIDENTIALLY ZONED PROPERTIES PER ZONING REGULATIONS SECTION 134.
2. ALL CURB RADII ARE 5' UNLESS OTHERWISE SHOWN.
3. ALL ON-SITE ROADS ARE PRIVATE.
4. CONTRACTOR TO INSTALL UTILITIES PER HO. CO. STD. SPEC'S AND DETAILS FOR CONSTRUCTION VOLUME IV ARTICLE 10. UTILITY CONSTRUCTION, SECTION 1000
5. SEE SHEET 0 FOR ENLARGEMENT OF HANDICAP PARKING AREA.
6. ALL DIMENSIONS ARE TO FACE OF CURB OR BUILDING UNLESS OTHERWISE LABELED.
7. * LIMITS OF STD/REV CURB AND GUTTER.
8. PERMISSION TO GRADE AND CONSTRUCT DRAINAGE FACILITIES TO BE OBTAINED FROM MSHA PRIOR TO SIGNATURE APPROVAL OF SITE DEVELOPMENT PLAN.
9. NO VISIBLE SIGNS OF WATER WELLS OR SEPTIC AREAS/SYSTEMS WERE OBSERVED.

SCAGGSVILLE ROAD
MD. ROUTE 216
MINOR ARTERIAL
(A STATE HIGHWAY)

U.S. ROUTE 29
COLUMBIA PIKE
PRINCIPAL ARTERIAL

PROPOSED
FOOD LION
FF 437.0

ICE CRYSTAL DRIVE
LOCAL ROAD

PROPERTY OF
CHERRYTREE PARK L.L.C.
(L.4109, F.554)
ZONED POR-MXD-6

NOTE: ICE CRYSTAL DRIVE WILL BE CONSTRUCTED BY THE DEVELOPER IF CONSTRUCTION COMMENCES PRIOR TO MSHA INTERCHANGE WORK. DEVELOPER WILL BE RESPONSIBLE FOR TIE-IN TO EXISTING MD. ROUTE 216 IN THIS SCENARIO. IF THE INTERCHANGE PROJECT PRECEDES THIS DEVELOPMENT THE MSHA IS RESPONSIBLE FOR CONSTRUCTION OF CRYSTAL DRIVE AND ULTIMATE INTERCHANGE.

PROPERTY OF
CHERRYTREE PARK L.L.C.
(L.4109, F.554)
ZONED POR-MXD-6
PROPOSED AS A
NON-RESIDENTIAL USE

PLAN
SCALE: 1"=40'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Dina M. ... 11/30/99
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
... 12/8/99
DIRECTOR

... 11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION

... 12/1/99
CHIEF, DIVISION OF LAND DEVELOPMENT

10/4/00 MODIFIED I-3 AND ADDED M-2; ADDED SHEET 11
8/31/00 CHANGED PIPE TYPE BETWEEN I-2 & I-3.

DATE	NO.	REVISION

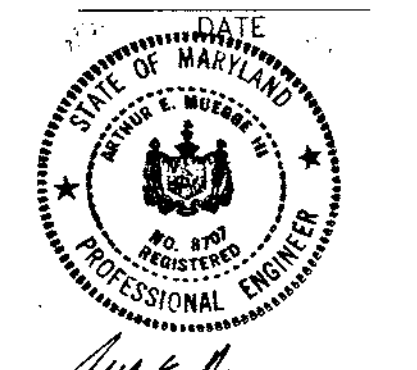
OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD. SUITE 300
CHARLOTTE, NC 28211
(704) 366-7937

PROJECT
FOOD LION P-3000

AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT ZONED B-2
HOWARD COUNTY, MARYLAND

TITLE
SITE DEVELOPMENT PLAN

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

 DATE DESIGNED BY: C.J.R. DRAWN BY: DRD PROJECT NO: 98372 SDP3.DWG DATE: NOVEMBER 4, 1999 SCALE: AS SHOWN DRAWING NO. 3 OF 11	DATE DESIGNED BY: C.J.R.
	DRAWN BY: DRD
	PROJECT NO: 98372 SDP3.DWG
	DATE: NOVEMBER 4, 1999
	SCALE: AS SHOWN DRAWING NO. 3 OF 11

DRAINAGE CHART

INLET	DRAINAGE AREA (AC)	%IMP	'C'
I-1	0.58	84%	0.76
I-2	0.19	84%	0.79
I-3	0.86	91%	0.80
I-4	0.12	100%	0.86
I-5	0.14	100%	0.86
I-6	0.34	42%	0.81
I-7	0.28	82%	0.74
I-8	0.36	72%	0.67
ROOF DR.	0.85	100%	0.86

* I-2 WILL BE BLOCKED DURING CONSTRUCTION AND ITS RESPECTIVE DRAINAGE AREA IS TO BE DIRECTED TOWARDS I-3.

LEGEND

- DRAINAGE DIVIDES
- - - - - LIMIT OF DISTURBANCE
- SF --- SF --- SUPER SILT FENCE
- SF --- SF --- SILT FENCE
- S.C.E. STABILIZED CONSTRUCTION ENTRANCE
- RPS REMOVABLE PUMPING STATION
- RIP RIP-RAP INFLOW PROTECTION



SCAGGSVILLE ROAD
MD. ROUTE 216
MINOR ARTERIAL
(A STATE HIGHWAY)

U.S. ROUTE 29
COLUMBIA PIKE
PRINCIPAL ARTERIAL

PROPOSED
FOOD LION
FF 437.0

INLET SEDIMENT TRAP #1 (I-1)

DRAINAGE AREA	0.58 AC.
STORAGE VOLUME REQUIRED	2088 CF = 1044 DRY + 1044 NET
NET STORAGE PROVIDED	1044 CF @ 428.4
DRY STORAGE PROVIDED	1044 CF @ 429.5
TOP OF WEIR	430.2
BOTTOM ELEVATION	426.8
BOTTOM DIMENSION	30' X 15'
CLEANOUT ELEVATION	427.6
SIDE SLOPES	2:1
DEWATERING PIPE DRANDOWN ELEVATION	428.4

INLET SEDIMENT TRAP #2 (I-3)

DRAINAGE AREA	1.06 AC.
STORAGE VOLUME REQUIRED	3816 CF = 1908 DRY + 1908 NET
NET STORAGE PROVIDED	1908 CF @ 429.0
DRY STORAGE PROVIDED	1908 CF @ 424.3
TOP OF WEIR	424.4
BOTTOM ELEVATION	421.5
BOTTOM DIMENSION	61' X 15'
CLEANOUT ELEVATION	422.3
SIDE SLOPES	2:1
DEWATERING PIPE DRANDOWN ELEVATION	422.9

INLET SEDIMENT TRAP #3 (I-6)

DRAINAGE AREA	0.34 AC.
STORAGE VOLUME REQUIRED	1404 CF = 702 DRY + 702 NET
NET STORAGE PROVIDED	702 CF @ 429.7
DRY STORAGE PROVIDED	702 CF @ 430.7
TOP OF WEIR	431.3
BOTTOM ELEVATION	428.5
BOTTOM DIMENSION	35' X 10'
CLEANOUT ELEVATION	429.3
SIDE SLOPES	2:1
DEWATERING PIPE DRANDOWN ELEVATION	429.7

INLET SEDIMENT TRAP #4 (I-7, I-8, RD)

DRAINAGE AREA	1.41 AC.
STORAGE VOLUME REQUIRED	5364 CF = 2682 DRY + 2682 NET
NET STORAGE PROVIDED	2682 CF @ 430.2
DRY STORAGE PROVIDED	2682 CF @ 431.3
TOP OF WEIR	431.4
BOTTOM ELEVATION	428.8
BOTTOM DIMENSION	135' X 10'
CLEANOUT ELEVATION	429.5
SIDE SLOPES	2:1
DEWATERING PIPE DRANDOWN ELEVATION	430.2

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.

Arthur E. Muegge 11/3/99
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 8/10/99
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 Sims 11/9/99
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Gregory V. Kelly 11/9/99
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

Dina M. Mott 11/3/99
COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

Joseph T. Smith 12/8/99
DIRECTOR DATE

Mark D. Williams 11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cinda Hamstra 12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10-4-00/2 MODIFIED I-3 AND ADDED M-2; ADDED SHEET II
B/S/100 CHANGED PIPE TYPE BETWEEN I-2 AND I-3.

DATE NO. REVISION

OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD. SUITE 300
CHARLOTTE, NC 28211
(704) 366-7337

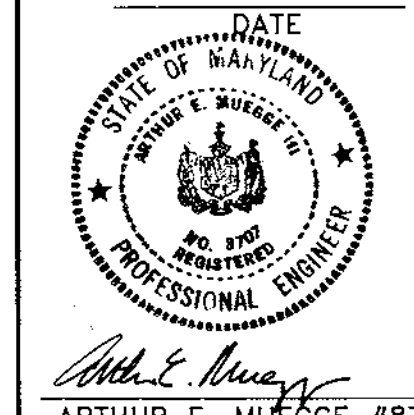
PROJECT
FOOD LION P-3000

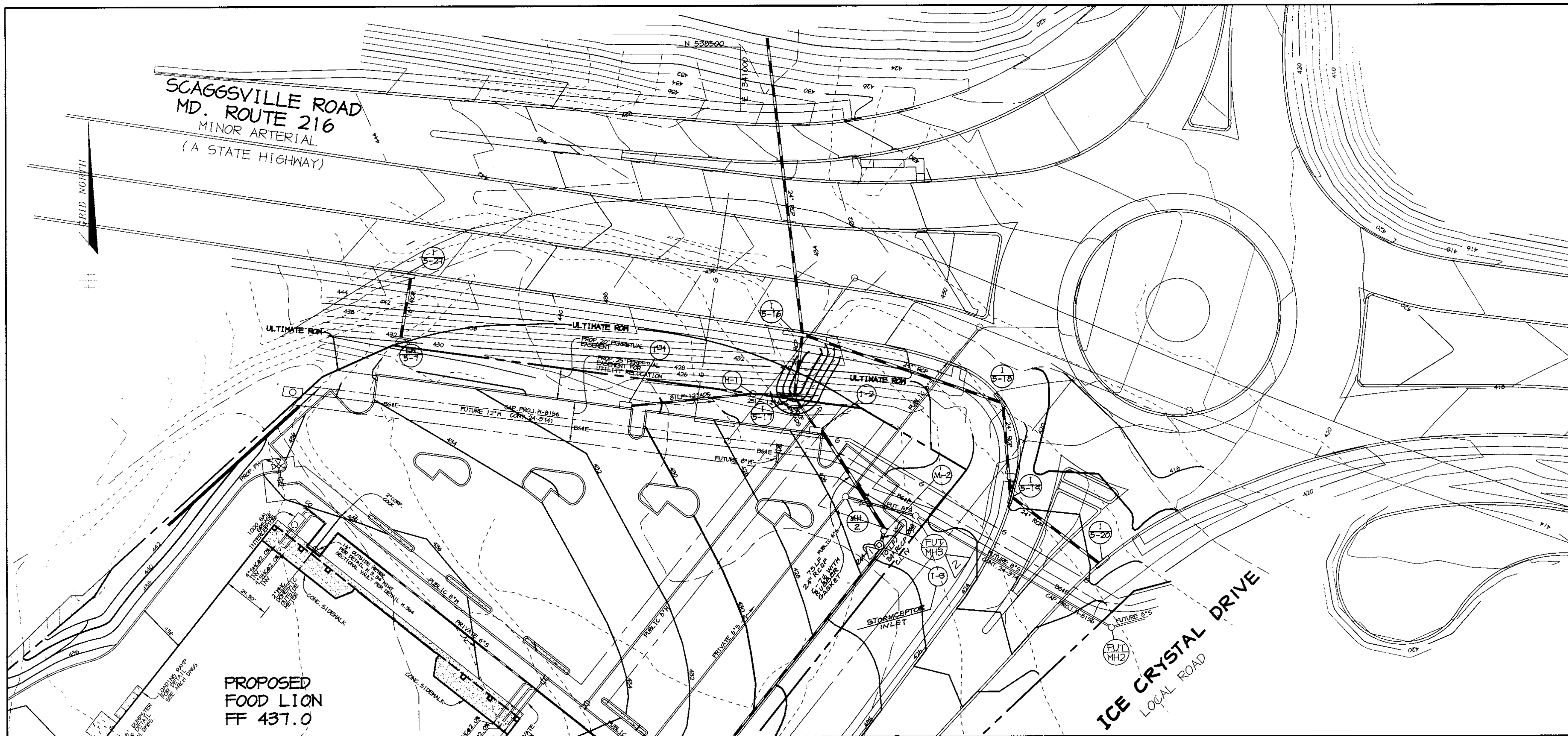
AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT ZONED B-2
HOWARD COUNTY, MARYLAND

TITLE
SEDIMENT CONTROL PLAN & DRAINAGE AREA MAP

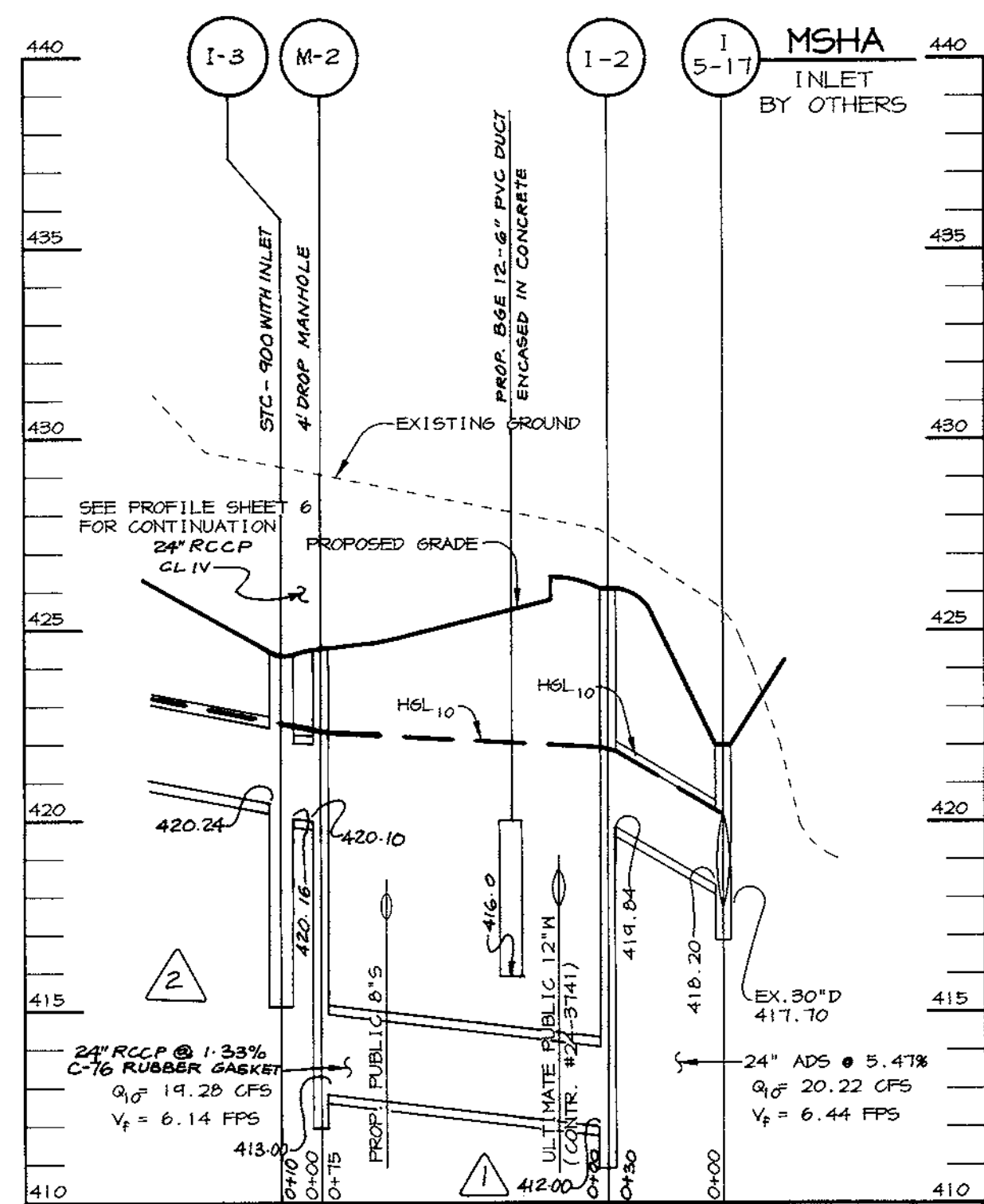
RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
tel 410.987.8900 fax 410.987.9282

DATE
DESIGNED BY : C.J.R.
DRAWN BY: DRD
PROJECT NO : 98372
SDP4.DWG
DATE : NOVEMBER 4, 1999
SCALE : 1" = 40'
DRAWING NO. 4 OF 11

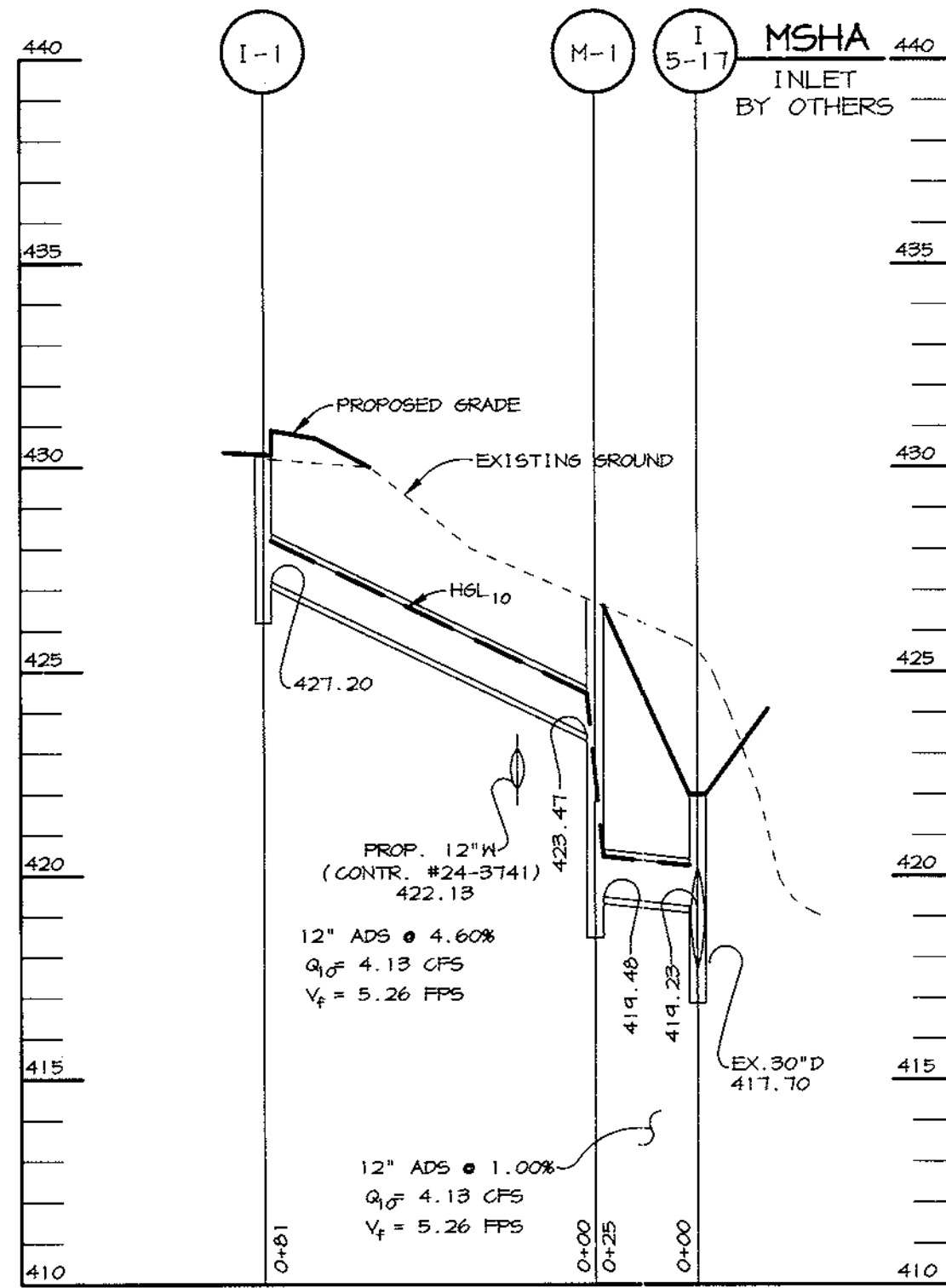




PLAN
SCALE: 1"=40'



STORM DRAIN PROFILE
SCALE: HOR.: 1"=40'
VERT.: 1"=4'



STORM DRAIN PROFILE
SCALE: HOR.: 1"=40'
VERT.: 1"=4'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Doris M. ... 11/3/99
COUNTY HEALTH OFFICER M.R. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Paul ... 12/8/99
DIRECTOR DATE

... 11/6/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Linda ... 12/9/99
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10-4-00 MODIFIED I-3 AND ADDED M-2; ADDED SHEET II
8/31/00 REVISED PROFILE INVERTS @ I-2 & I-3

DATE NO. REVISION
OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD. SUITE 300
CHARLOTTE, NC 28211
(704) 366-7337

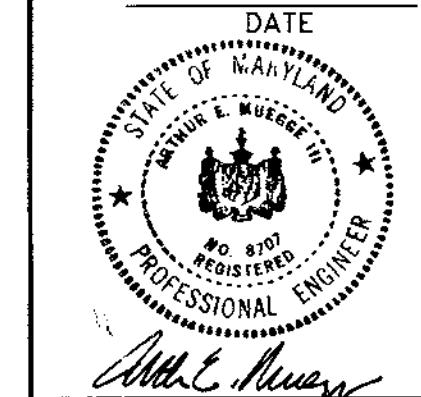
PROJECT
FOOD LION P-3000

AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT ZONED B-2
HOWARD COUNTY, MARYLAND

TITLE
ULTIMATE SITE DEVELOPMENT PLAN

RIEMER MUEGGE & ASSOCIATES INC
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
tel 410.997.8900 fax 410.997.9282

DATE
DESIGNED BY: C.J.R.
DRAWN BY: DRD
PROJECT NO.: 98372 SDPS.DWG
DATE: NOVEMBER 4, 1999
SCALE: AS SHOWN
DRAWING NO.: 5 OF 11



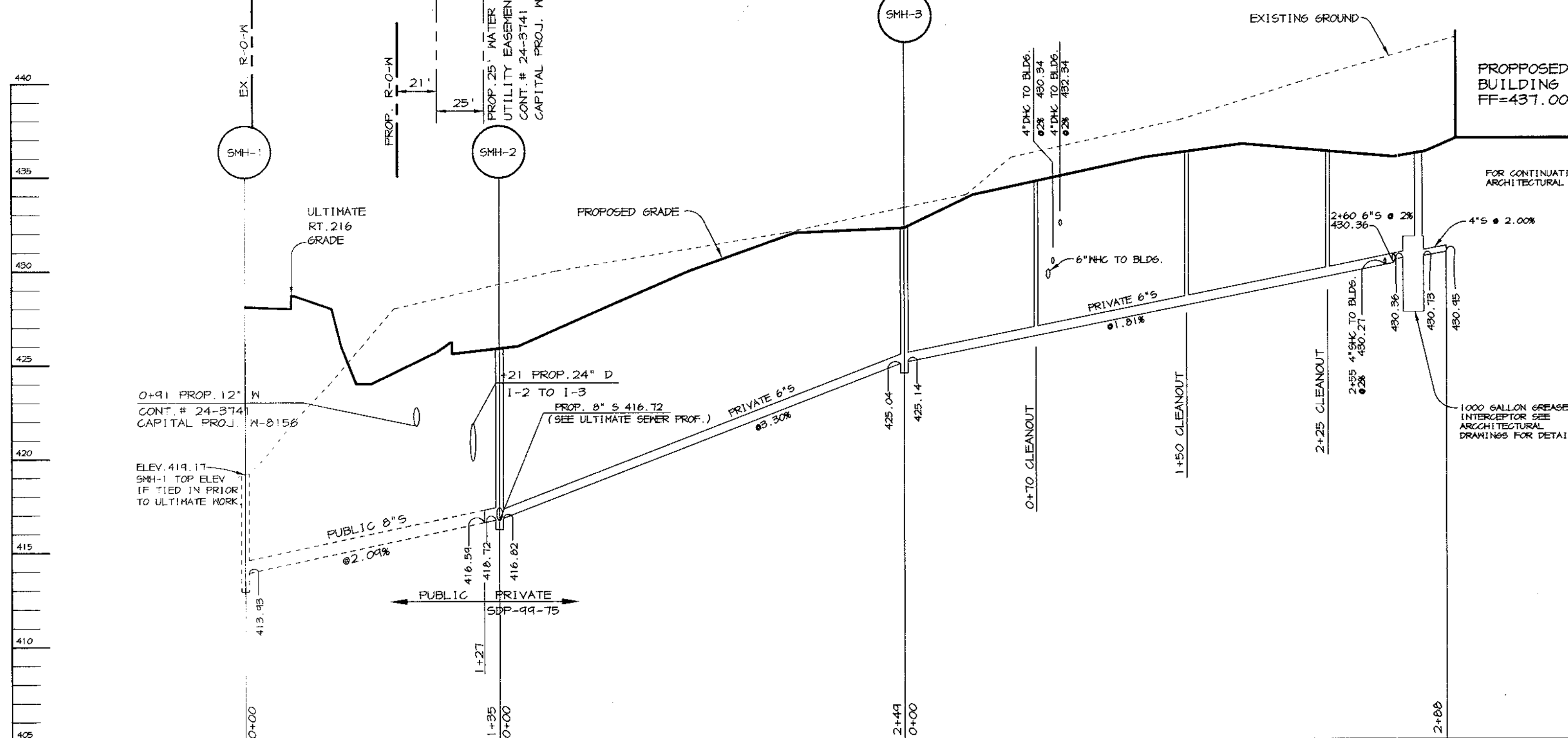
STRUCTURE SCHEDULE

STRUCTURE	TYPE	LOCATION	INV. IN	INV. OUT	TOP	REMARKS
I-1	NR	*N 530, 273.24 E 1,340, 927.13	-	427.20	430.8	HOCO STD. DETAIL SD 4.35
I-2	DOUBLE S	*N 530, 257.03 E 1,341, 046.03	412.00	419.04	426.1	HOCO STD. DETAIL SD 4.433
I-3	STC-900 W/GRATE	*N 530, 185.79 E 1,341, 083.65	420.24	420.16	424.4 TOP GRATE	SEE SHEET II
I-4	A-5	*N 530, 036.47 E 1,340, 964.58	425.16	425.06	430.35	HOCO STD. DETAIL SD 4.01 INSIDE DIM. 2'-6" x 5'-0"
I-5	NR	*N 531, 996.18 E 1,340, 438.64	425.38	425.28	430.3	HOCO STD. DETAIL SD 4.35
I-6	NR	*N 531, 861.24 E 1,340, 831.32	426.74	426.24	430.5	HOCO STD. DETAIL SD 4.35
I-7	NR	*N 531, 944.45 E 1,340, 604.30	429.10 (10') 428.44 (12')	427.94	431.4	HOCO STD. DETAIL SD 4.35
I-8	NR	*N 530, 007.94 E 1,340, 506.34	-	429.42	432.0	HOCO STD. DETAIL SD 4.35
M-1	4" DIA. MANHOLE	*N 530, 282.51 E 1,341, 007.16	429.47	419.48	426.7	HOCO STD. DETAIL 6 5.12
E-1	12" END SECTION	*N 530, 284.82 E 1,341, 031.70	-	419.23	-	ADS END SECTION
E-2	24" END SECTION	*N 530, 283.14 E 1,341, 034.77	-	419.23	-	ADS END SECTION

NOTES: * LOCATION OF STRUCTURE IS AT FACE OF CURB AT CENTER EDGE OF GRATE. LOCATION OF "S" 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 HEADHALLS THE LOCATION IS CENTER OF THROAT OPENING AT FACE OF STRUCTURE. TOP ELEVATION IS TOP OF CURB/GRATE/RIM.

M-2 4" DIA. MANHOLE *N 530, 195.25 E 1,341, 091.25 420.10 413.00 424.6 HOCO STD. DETAIL 6 5.12

SCAGGSVILLE RD.
MD. ROUTE 216

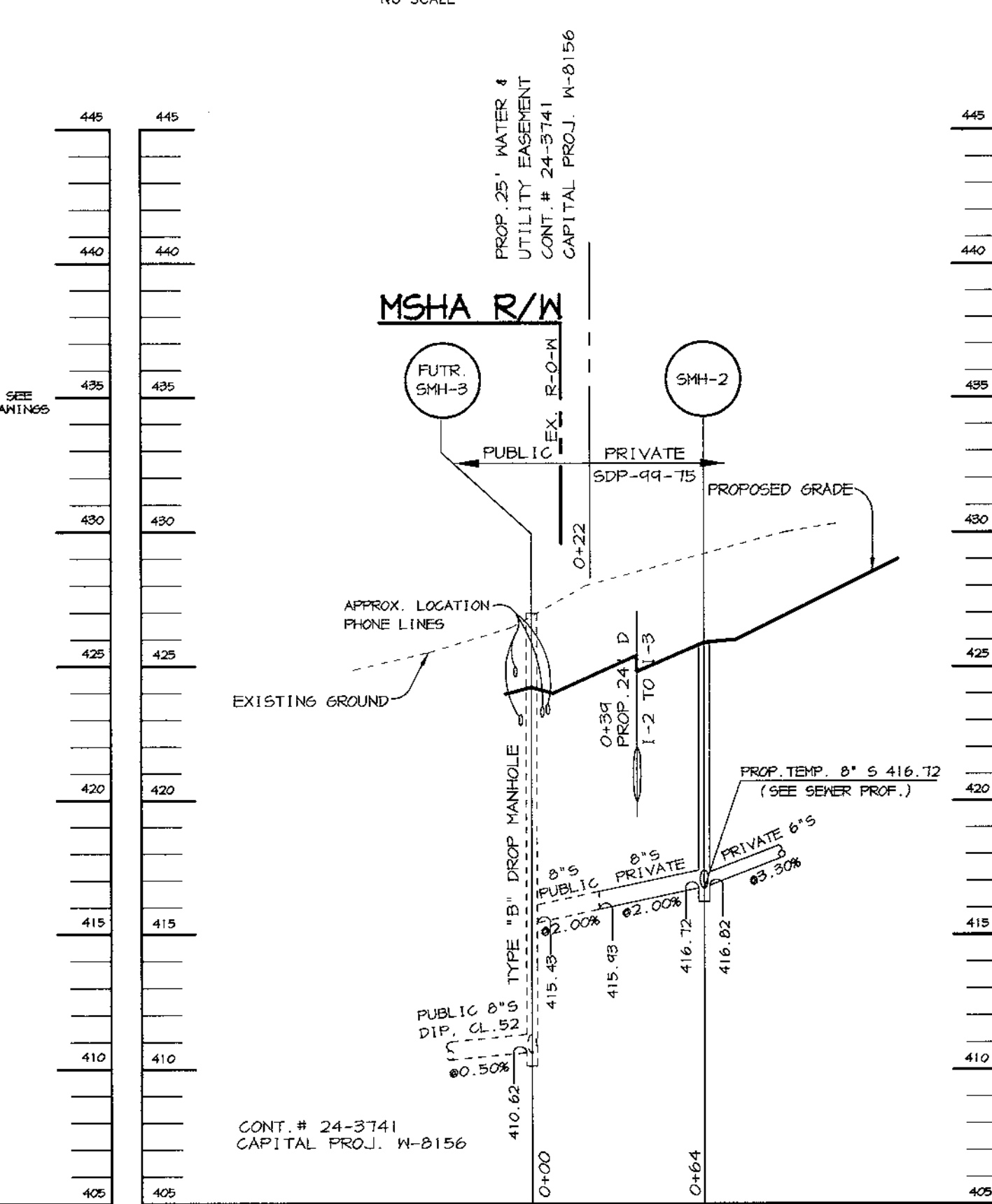


SEWER PROFILE

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

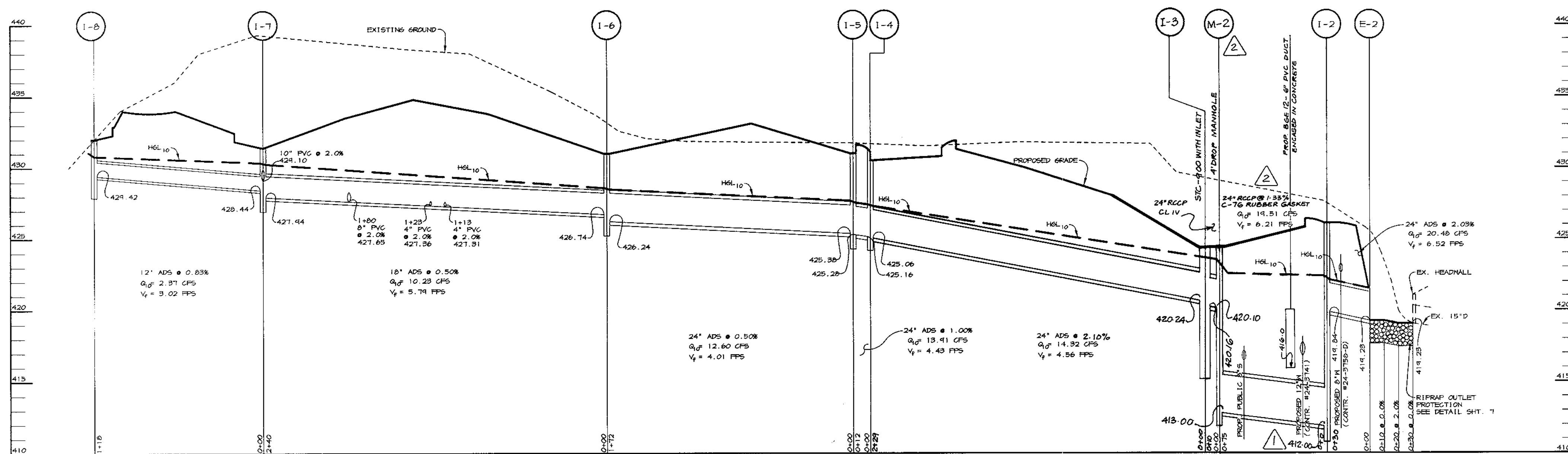
WATER PROFILE

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



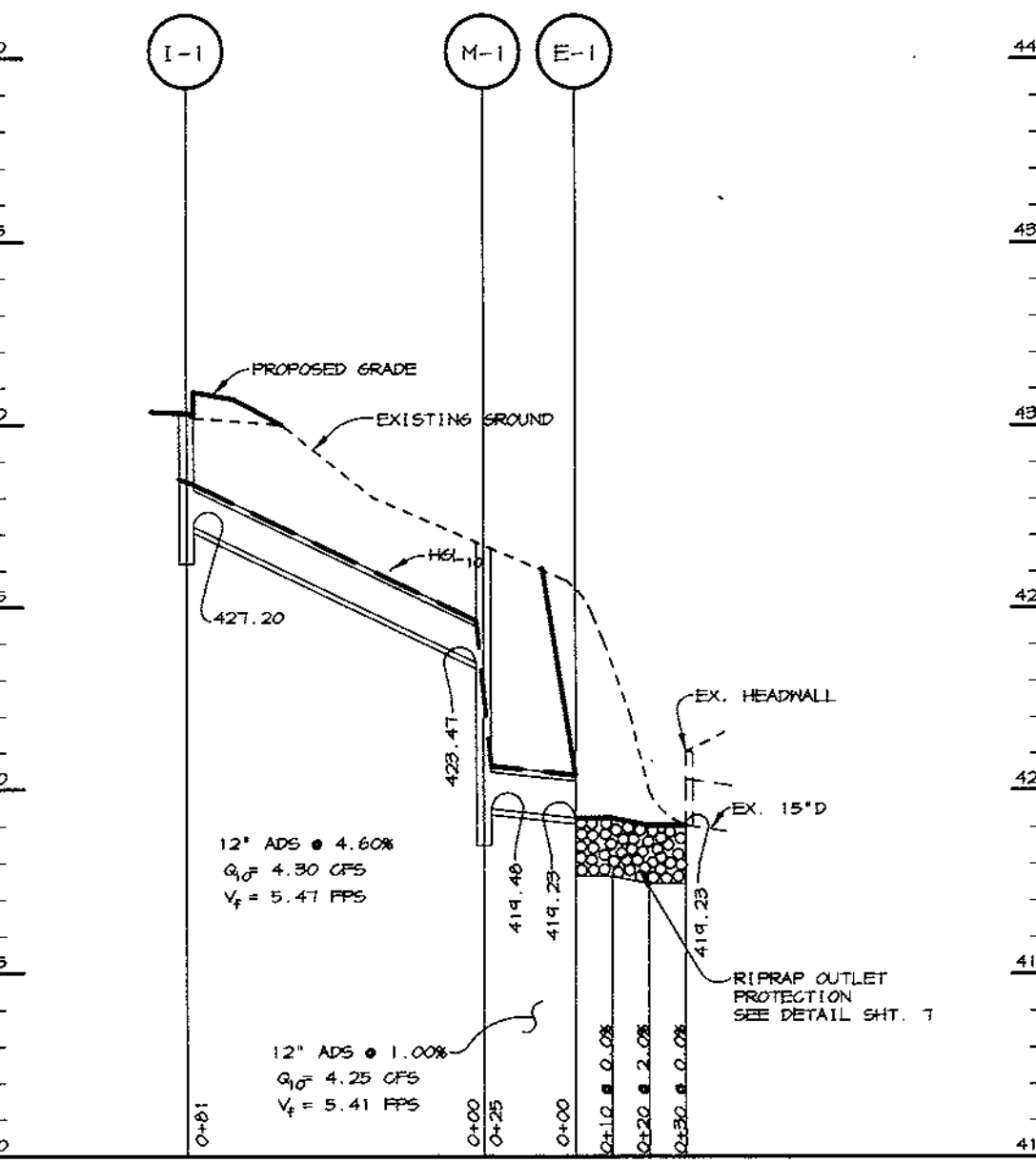
ULTIMATE SEWER PROFILE

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



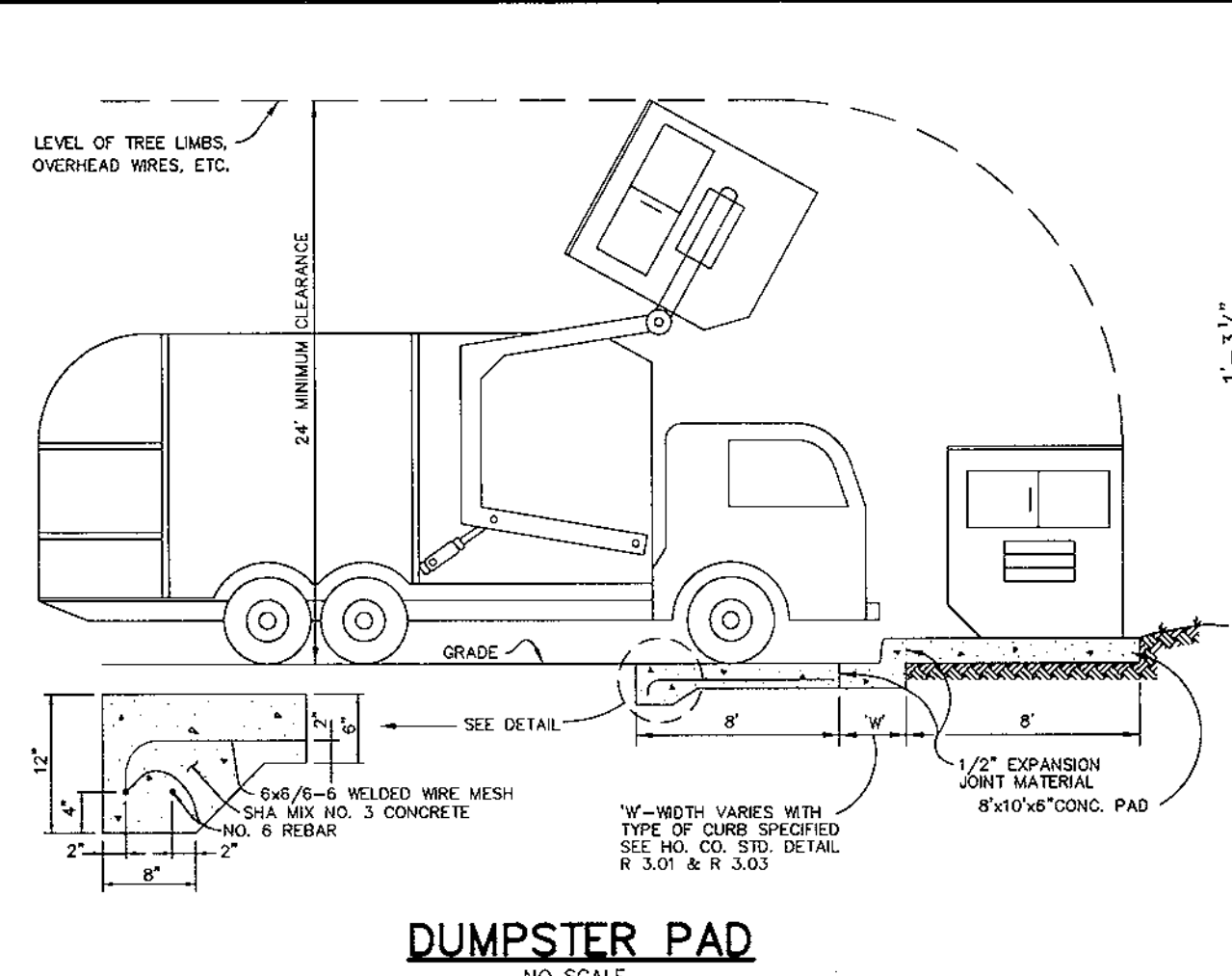
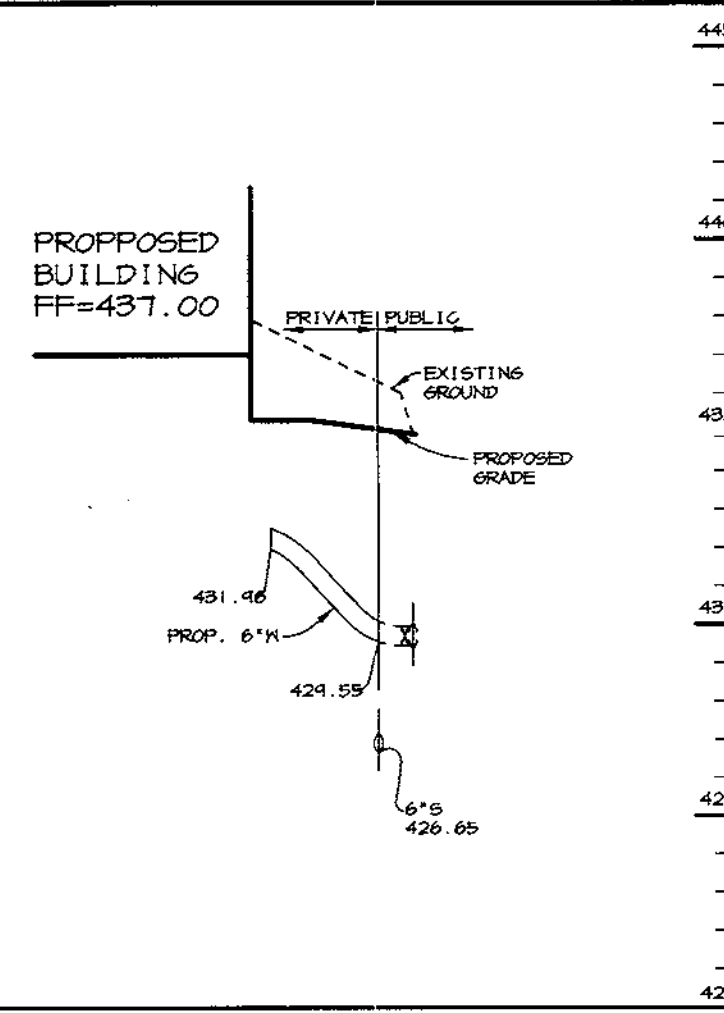
STORM DRAIN PROFILE

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



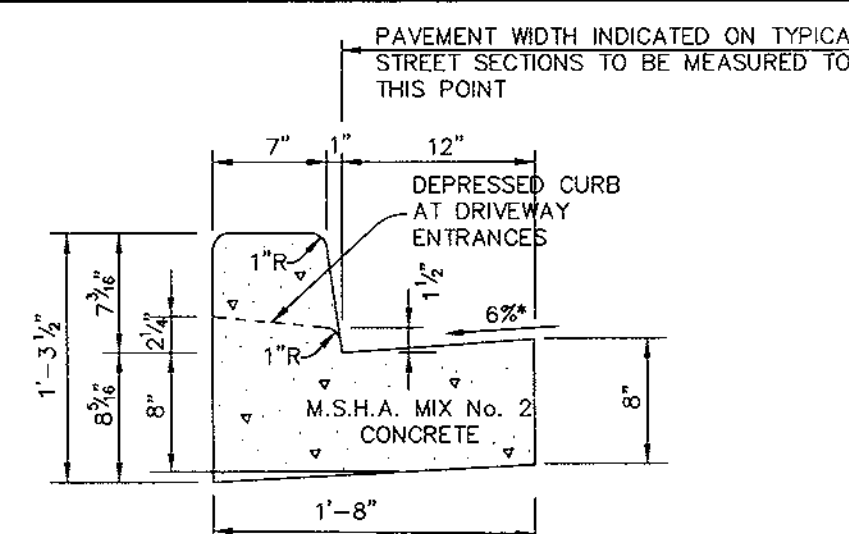
STORM DRAIN PROFILE

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



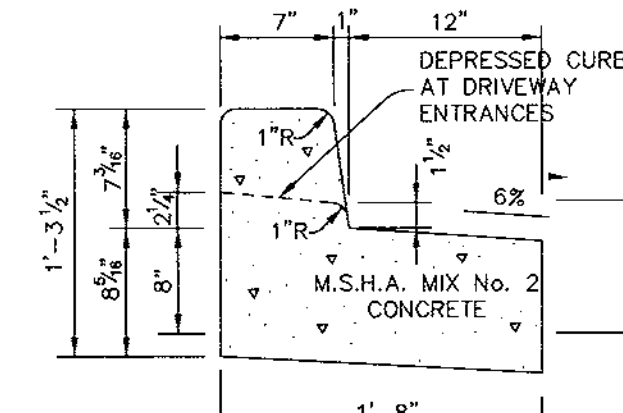
DUMPSTER PAD

NO SCALE



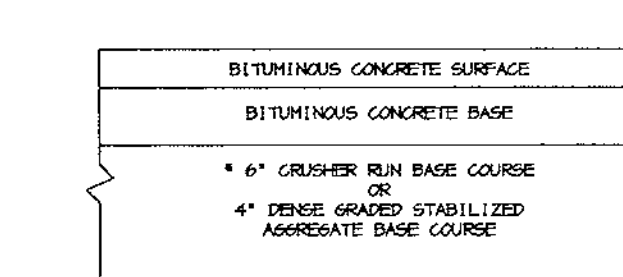
STANDARD 7" COMBINATION CURB AND GUTTER

NO SCALE



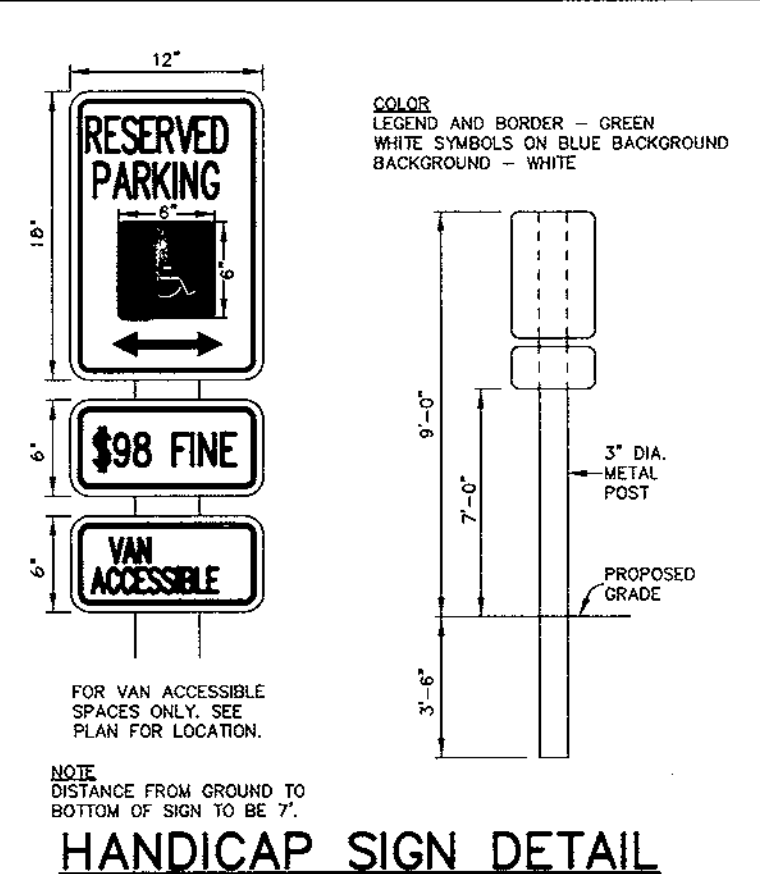
REVERSE 7" COMBINATION CURB AND GUTTER

NO SCALE



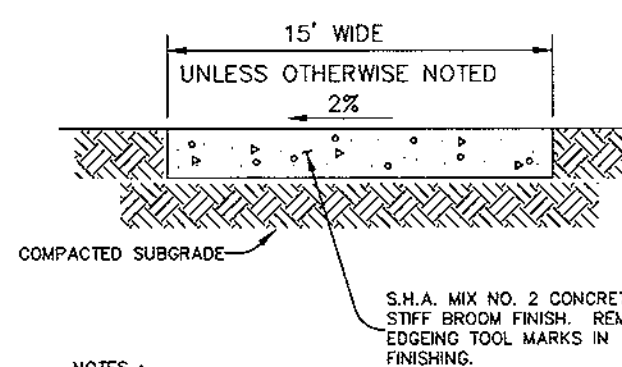
P-1 PAVING

NO SCALE



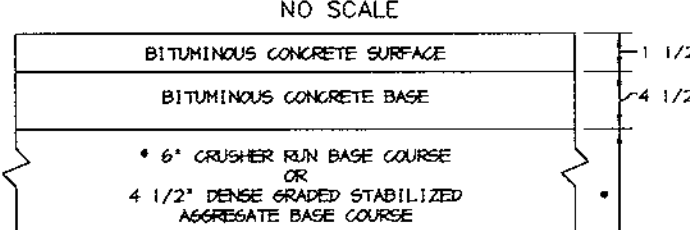
HANDICAP SIGN DETAIL

NO SCALE



SIDEWALK DETAIL

NO SCALE



P-3 PAVING

NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Don Williams 1/30/99 DATE
COUNTY HEALTH OFFICER MR. DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Joseph B. Kelly 12/8/99 DATE
DIRECTOR DATE

Charles J. Williams 11/13/99 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

David Hamilton 12/7/99 DATE
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

10-4.00/21 REVISOR AND EXPANDED STRUCTURE SCHEDULE, ADDED SHEET II
8/31/00 REVISOR STRUCTURE SCHEDULE; REVISED PROFILE INVERTS AT I-2 & I-3

DATE	NO.	REVISION

OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD. SUITE 300
CHARLOTTE, NC 28211
(704) 366-7537

PROJECT
FOOD LION P-3000

AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT ZONED B-2
HOWARD COUNTY, MARYLAND

TITLE
PROFILE & DETAILS

RIEMER MUEGGE & ASSOCIATES INC
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
tel 410.987.8900 fax 410.987.9282

DATE
DESIGNED BY: C.J.R.
DRAWN BY: DRD
PROJECT NO: 98372 SDP6.DWG
DATE: NOVEMBER 4, 1999
SCALE: AS SHOWN
DRAWING NO. 6 OF 11

ARTHUR E. MUEGGE #8707

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION...
2. ALL VEGETATIVE AND STRUCTURAL PRAXICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL...
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES AND ALL SLOPES GREATER THAN 3:1 BY 14 DAYS AS TO OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE...
4. ALL SEDIMENT TRAP/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, 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 1991 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL AND EROSION CONTROL FOR PERMANENT SEEDINGS (SEC. 51), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONG CAN ONLY BE DONE WHEN RECOMMENDED SEEDING RATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES...
6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR...
7. SITE ANALYSIS
TOTAL AREA OF SITE 4.808 ACRES
AREA TO BE REFOED OR PAVED 6.10 ACRES
AREA TO BE VEGETATIVELY STABILIZED 4.60 ACRES
TOTAL SFC 24,680 CU YDS
TOTAL CUV 1,182 CU YDS
EXCESS MATERIAL TO BE TAKEN TO A SITE WITH AN OPEN GRADING PERMIT.
8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
10. SITE GRADINGS WILL BEGAIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
11. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
12. 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 UNDERSTANDING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED PRIOR TO 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.
14. TECHNIQUES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

TEMPORARY SEEDING NOTES

- Apply to graded or cleared areas which are to be resturbed where a short-term vegetative cover is needed.
Seeded Preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.
Soil Amendments: Apply 600 lbs. per acre 19-0-10 fertilizer (14 lbs. per 1000 sq ft.).
Seeding: For periods March 1 thru April 31, one from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual ryegrass (3.2 lbs. per 1000 sq ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of creeping covermix (5.7 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 certified 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.
Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL PROTECTION AND SEDIMENT CONTROL for use and methods not covered.

PERMANENT SEEDING NOTES

- Apply to grass or cleared areas which are to be resturbed where further disturbance under a permanent long-term vegetative cover is needed.
Seeded Preparation: Loosen upper three inches of soil by raking, discing, or other acceptable means before seeding, if not previously loosened.
Soil Amendments: 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 19-0-10 fertilizer (14 lbs. per 1000 sq ft.) before seeding. Arrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 35-0-0 ureaformaldehyde (19 lbs. per 1000 sq ft.).
2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq ft.) and 600 lbs. per acre 19-0-10 fertilizer (23 lbs. per 1000 sq ft.) before seeding. Arrow or disc into upper three inches of soil.
Seeding: For the period March 1 thru April 31, 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 creeping covermix. During the period October 16 thru February 28, protect site by one of the following options.
1) 2 tons per acre of well-anchored straw mulch and seed as soon as possible in the spring.
2) Use sod.
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 certified 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.

21.0 STANDARD AND SPECIFICATIONS FOR TOPSOIL

- Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
Purpose: To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
Conditions Where Practice Applies:
I. This practice is limited to areas having 2:1 or flatter slopes where:
a. The texture of the exposed subsoil (parent material) is not adequate to produce vegetative growth.
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 soil 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. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA/USDC in cooperation with Maryland Agricultural Experimentation Station.
II. Topsoil Specifications - Soil to be used as topsoil 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. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 1/2" in diameter.
2. Topsoil must be free of plants or plant parts such as burdock grass, quackgrass, Johnsongrass, nutgrass, poison ivy, distle, or others as specified.
3. These subsoils is either highly acidic or composed of heavy clay, 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.
4. For sites having disturbed areas under 5 acres:
a. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
5. For sites having disturbed areas over 5 acres:
a. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
i. 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.
ii. Organic content of topsoil shall be not less than 1.5 percent by weight.
iii. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
iv. 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 dispersion of phytotoxic materials.
b. 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.
III. Topsoil Application:
1. 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.
2. Grads on the areas to be topsoiled, which have been previously established, shall be maintained, about 4" - 8" higher in elevation.
3. Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly compacted to a minimum thickness of 4". Seeding 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.
4. Topsoil shall not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition that may otherwise be detrimental to proper grading and seeded preparation.
VI. Alternative for Permanent Seeding - Instead of applying the full amounts of lime and commercial fertilizer, composted sludge and amendments may be applied as specified below.
1. Composted Sludge Material for use as a soil conditioner for sites having disturbed areas over 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 potassium and have a pH of 7.0 to 9.0. If compost does not meet these requirements, the appropriate constituents must be added to meet the requirements prior to use.
c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
d. Composted sludge shall be amended with a phosphate fertilizer applied at the rate of 4 lb/1,000 square feet, and 1/2 the normal application rate.
References: Guideline Specifications, Soil Preparation and Sodding, MD-W, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1978.

CONSTRUCTION SPECIFICATIONS

- 1. THE SUBGRADE FOR THE FILTER, RIP-RAP, OR GABION SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDINGS.
2. THE ROCK OR GRAVEL SHALL CONFORM TO THE SPECIFIED GRADINGS LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIP-RAP OR FILTER.
3. GEOTEXTILE CLASS C OR BETTER SHALL BE PROTECTED FROM PUNCHING, CUTTINGS, OR TEARINGS. ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE FABRIC OVER THE DAMAGED AREA. GEOTEXTILE FABRIC SHALL BE REPAIRED OR FOR JOINING TWO PIECES OF GEOTEXTILE FABRIC SHALL BE A MINIMUM OF ONE FOOT.
4. STONE FOR THE RIP-RAP OR GABION OUTLETS MAY BE PLACED BY EQUIPMENT. THEY SHALL BE CONSTRUCTED TO THE FULL COURSE THICKNESS IN ONE OPERATION AND AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. THE STONE FOR RIP-RAP OR GABION OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. RIP-RAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE FILTER, BLANKET OR GEOTEXTILE FABRIC HAND PLACEMENT WILL BE REQUIRED TO THE EXTENT NECESSARY TO PREVENT DAMAGE TO THE PERMANENT WORKS.
5. THE STONE SHALL BE PLACED SO THAT IT BLENDS IN WITH THE EXISTING GROUND. IF THE STONE IS SCOURED TOO HIGH THEN THE FLOW WILL BE FORCED OUT OF THE CHANNEL AND SCOUR ADJACENT TO THE STONE WILL OCCUR.

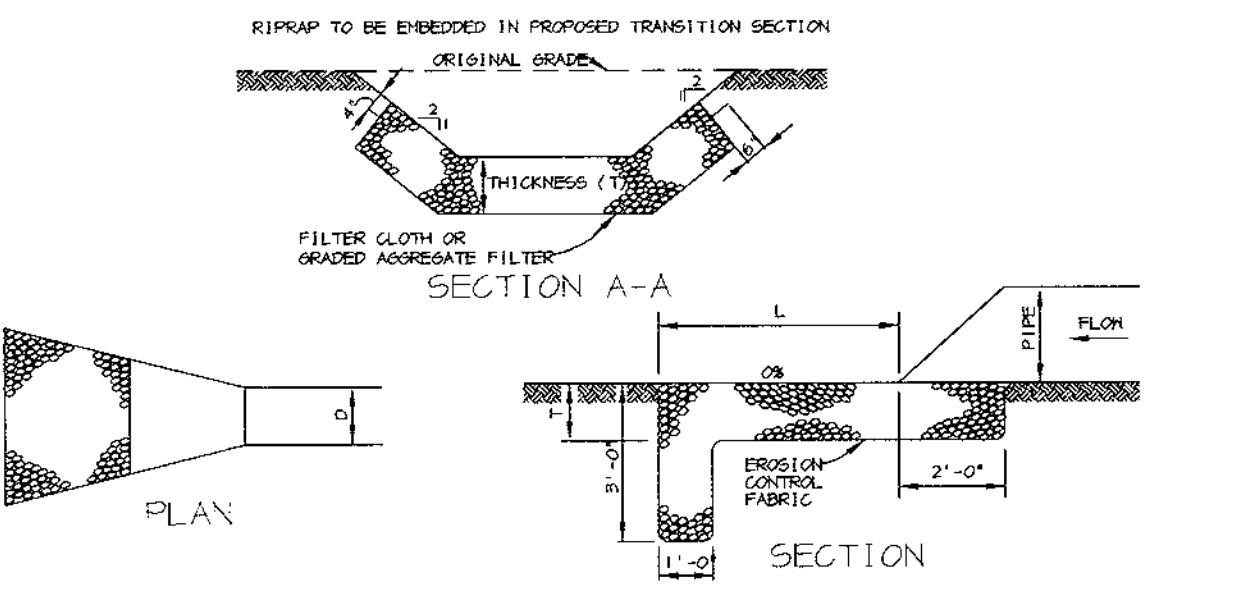
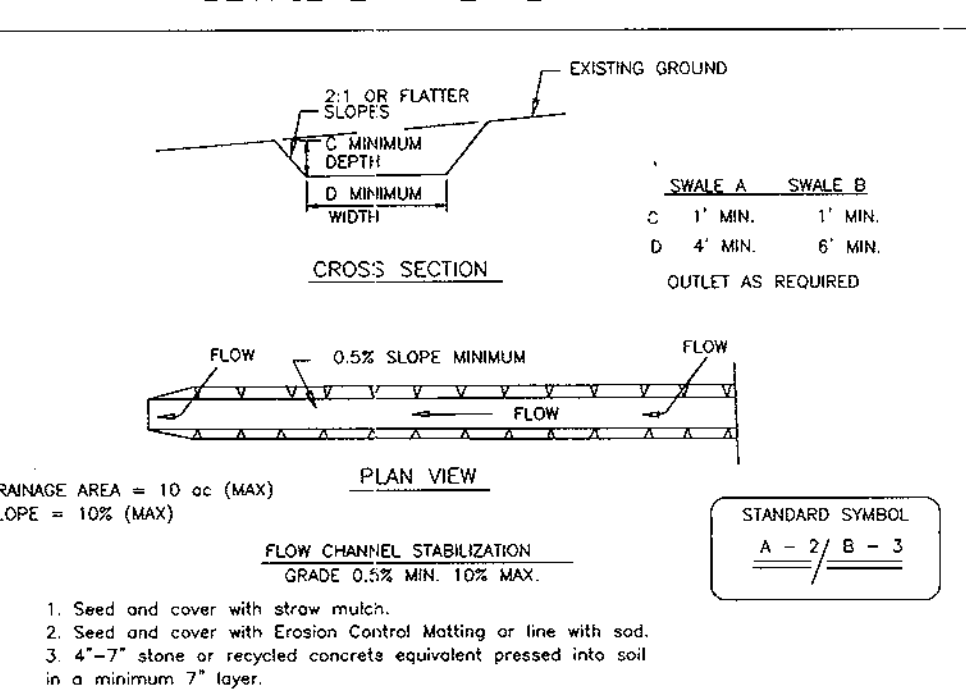


Table with columns: STRUCTURE, MEDIAN STONE DIA., LENGTH (L), WIDTH (W), THICKNESS (T), Dp, V, DEPTH. Rows include E-1 and E-2 specifications.

NO SCALE

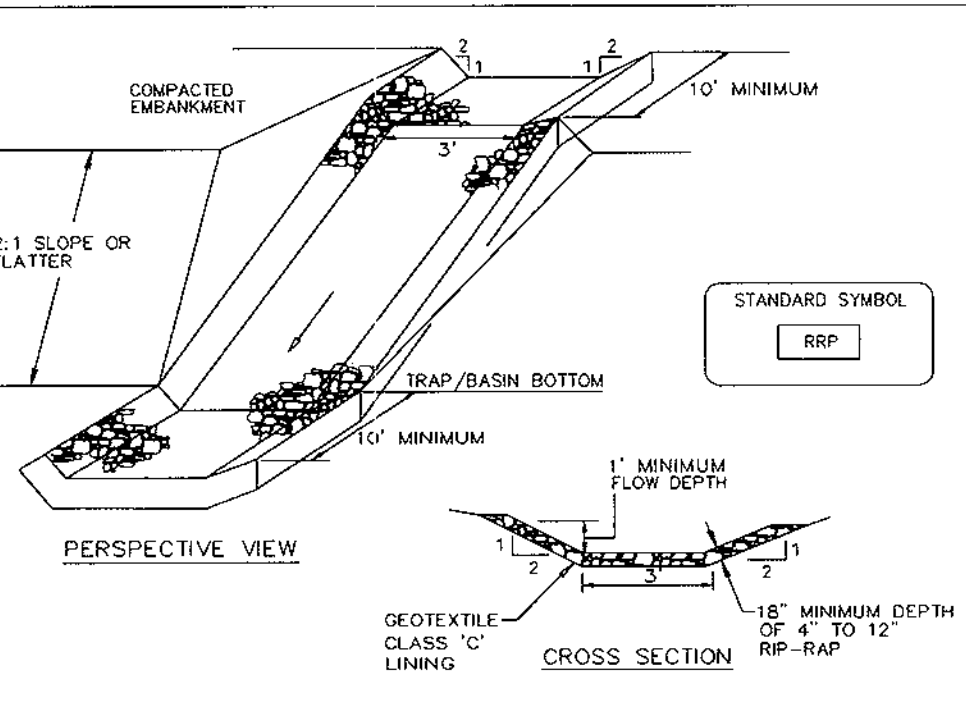
DETAIL 2 - TEMPORARY SWALE



- 1. Seed and cover with straw mulch.
2. Seed and cover with Erosion Control Matting or line with sod.
3. 4" - 7" stone or recycled concrete equivalent pressed into soil in a minimum 7" layer.
Construction Specifications:
1. All temporary swales shall have unimproved positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed stabilized area of a non-erosive velocity.
4. 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 swale.
5. The swale shall be seeded or sodded 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.
6. Fill, if necessary, shall be compacted by earth moving equipment.
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the swale.
8. Inspection and maintenance must be provided periodically and after each rain event.

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

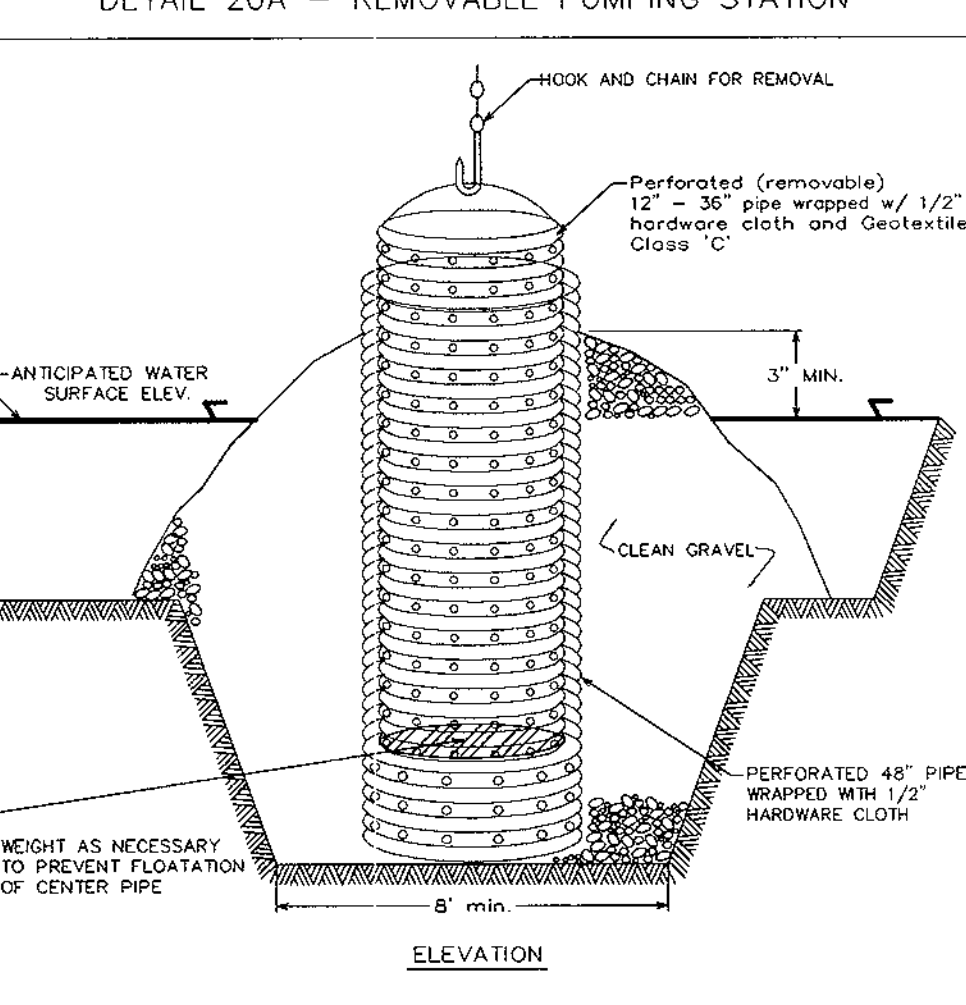
DETAIL 5 - RIP-RAP INFLOW PROTECTION



- 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 bank 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.

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

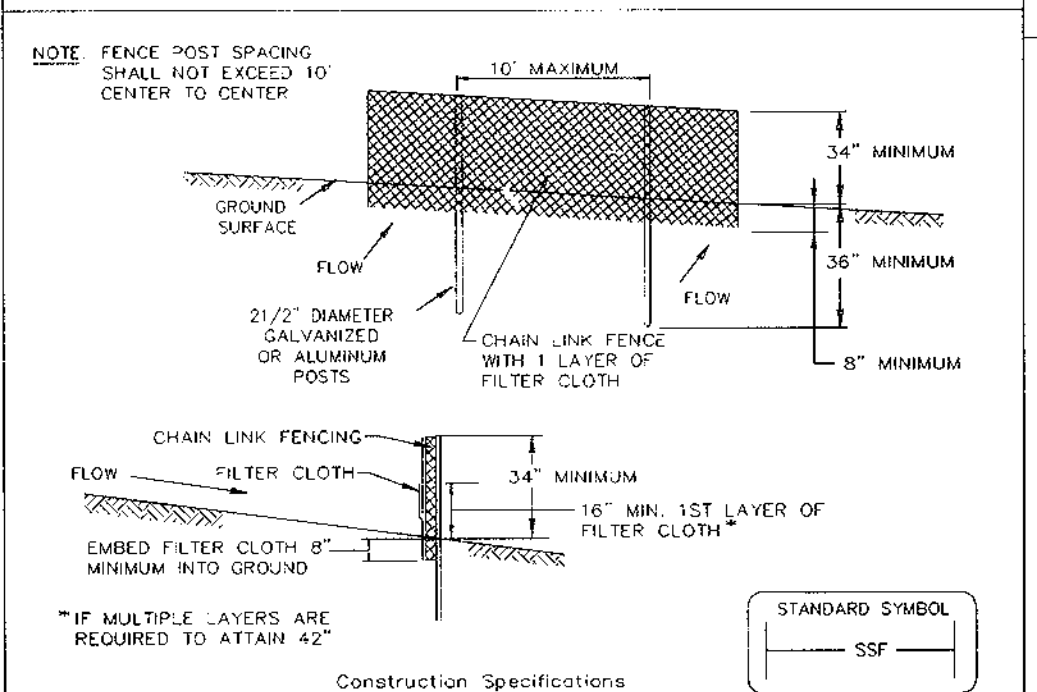
DETAIL 20A - REMOVABLE PUMPING STATION



- 1. The outer pipe shall be 48" dia. or shall, in any case, be at least 4" greater in diameter than the center pipe. The outer pipe shall be wrapped with 1/2" hardware cloth to prevent backfill material from entering the perforations.
2. After installing the outer pipe, backfill around outer pipe with 2" aggregate or clean gravel.
3. The inside stand pipe (center pipe) should be constructed by perforating a corrugated or PVC pipe between 12" and 36" in diameter. The perforations shall be 1/2" x 6" slots or 1" diameter holes 6" on center. The center pipe shall be wrapped with 1/2" hardware cloth first, then wrapped again with Geotextile Class C.
4. The center pipe should extend 12" to 18" above the anticipated water surface elevation or riser crest elevation when dewatering a basin.

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

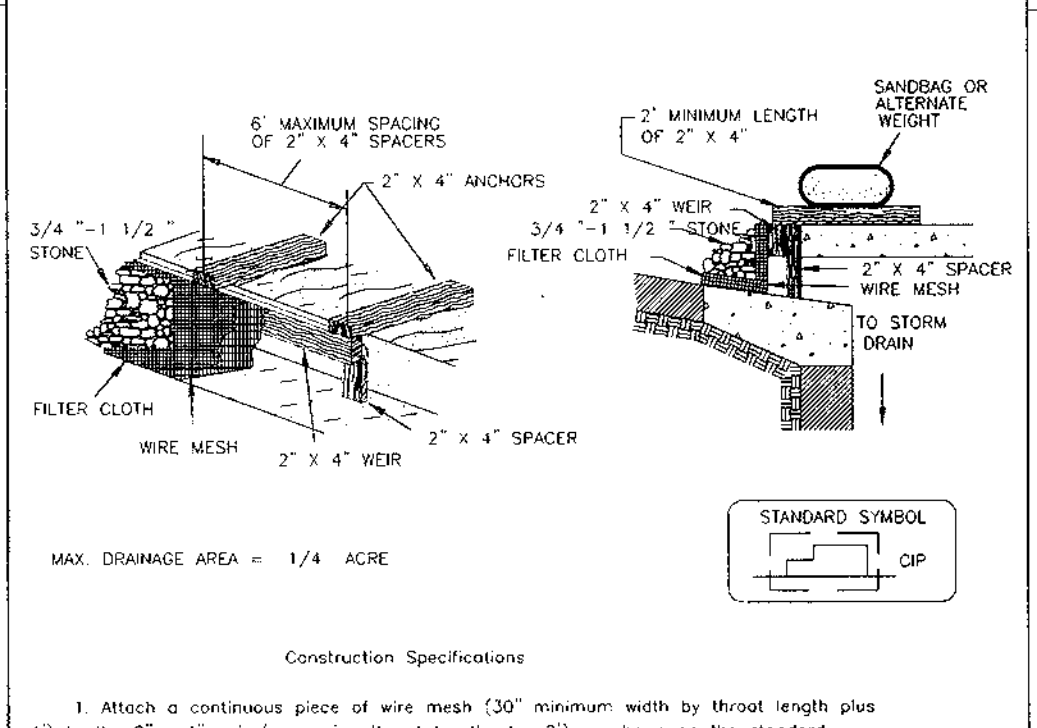
DETAIL 33 - SUPER SILT FENCE



- 1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and bruss rods, drive anchors and post caps are not required except on the ends of the fence.
3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
4. Filter cloth shall be embedded a minimum of 8" into the ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
7. 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^2/minute (max) Test: MSMT 322
Filtering Efficiency 75% (min.) Test: MSMT 322

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

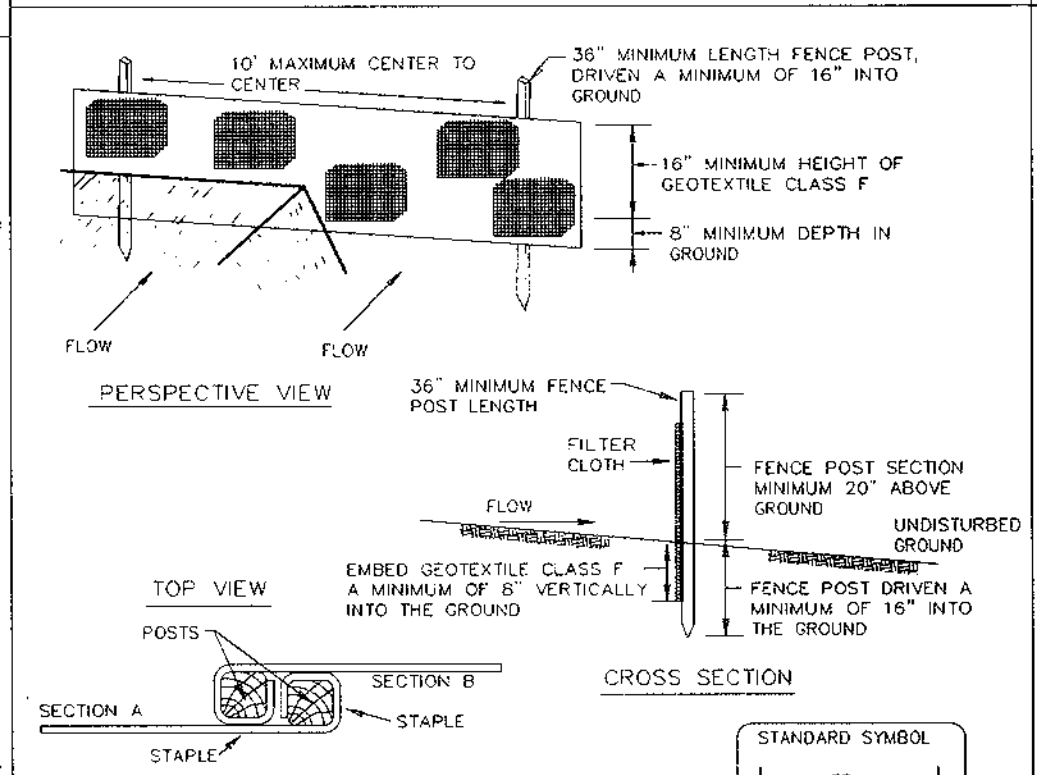
DETAIL 23C - CURB INLET PROTECTION



- 1. Attach a continuous piece of wire mesh (30" minimum width by throat length plus 4") to the 2" x 4" weir (measuring throat length plus 2") as shown on the standard drawing.
2. Place a continuous piece of Geotextile Class C the same dimensions as the wire mesh over the weir mesh and securely attach it to the 2" x 4" weir.
3. Securely nail the 2" x 4" weir to a 9" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
4. Place the assembly against the inlet throat and nail (minimum 2" lengths of 2" x 4" to the top of the weir at spacer locations). These 2" x 4" anchors shall extend across the inlet top and be in place by sandbags or alternate weight.
5. The assembly shall be placed so that the end spacers are a minimum 1" beyond both ends of the throat opening.
6. Form the 1/2" x 1/2" wire mesh and the geotextile fabric to the concrete gutter and against the face of the curb on both sides of the inlet. Place along 3/4" x 1 1/2" stone over the wire mesh and geotextile in such a manner to prevent water from entering the inlet under or around the geotextile.
7. This type of protection must be inspected frequently and the filter cloth or stone replaced when clogged with debris and by installing a temporary earth or asphalt dike to direct the flow to the inlet.
8. Ensure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

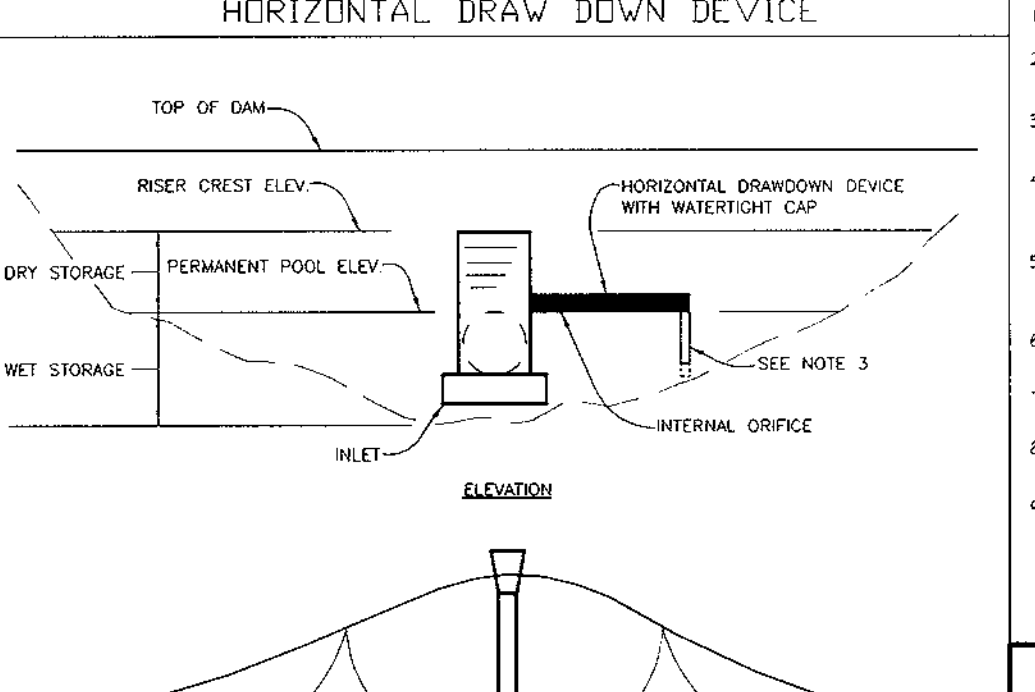
DETAIL 22 - SILT FENCE



- 1. Fence posts shall be a minimum of 36" 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 spaced 1' or a section weighing not less than 1.00 pound per linear foot.
2. 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^2/minute (max) Test: MSMT 322
Filtering Efficiency 75% (min.) Test: MSMT 322
3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent fabric separation.
4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

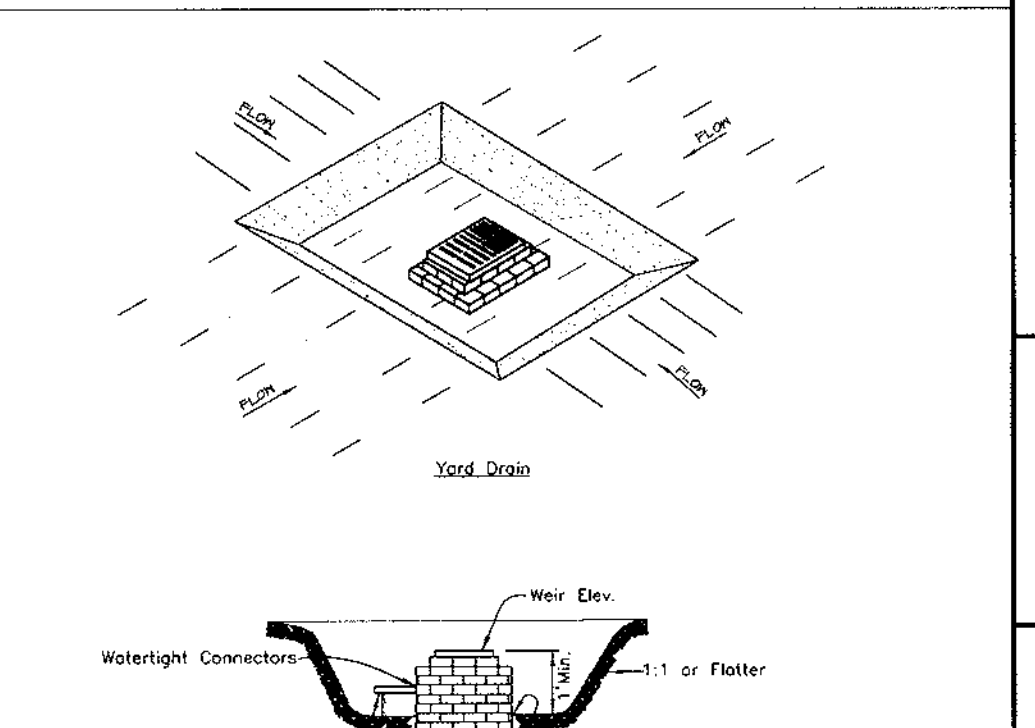
SEDIMENT TRAP AND BASIN DRAWDOWN SCHEMATIC HORIZONTAL DRAW DOWN DEVICE



- 1. The total area of the perforation must be greater than 2 times the area of the internal orifice.
2. The perforated portion of the drawdown device shall be wrapped with 1/2" hardware cloth and geotextile fabric. The geotextile fabric shall meet the specifications for Geotextile Class E.
3. Provide support of drawdown device to prevent sagging and flotation. An acceptable preventative measure is to stake both sides of drawdown device with 1" steel angle, or 1" by 4" square or 2" round wooden post set 3" minimum into the ground then joining them to the device by wrapping with 12 gauge minimum wire.

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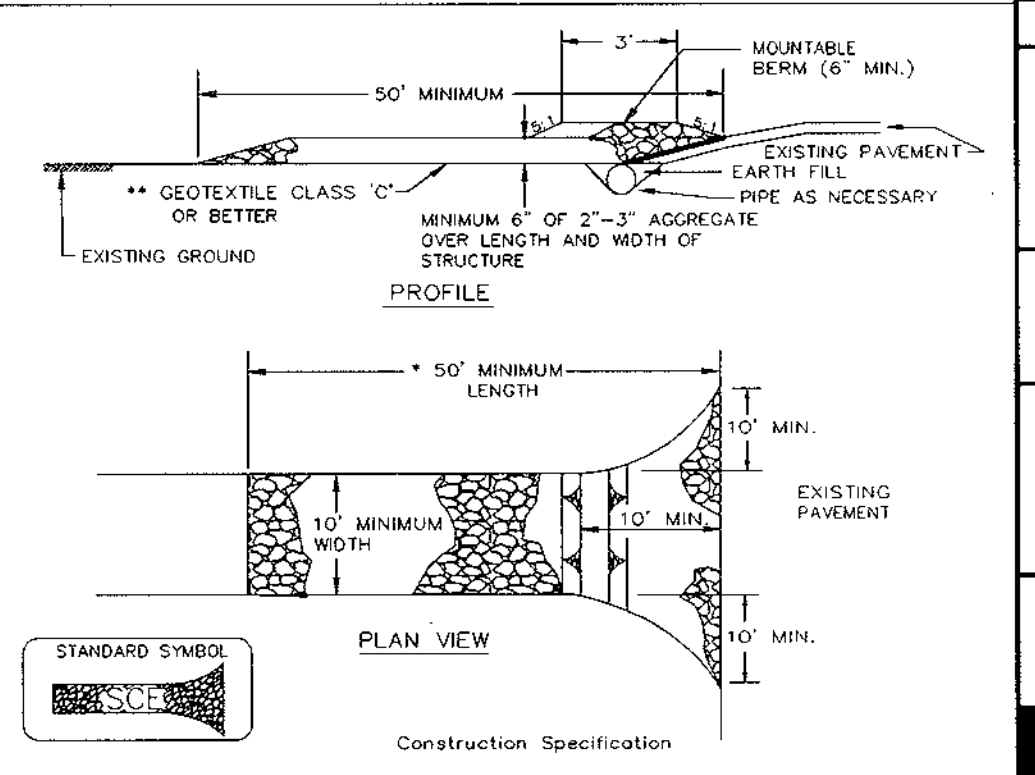
STORM INLET SEDIMENT TRAP ST-III



- 1. Sediment shall be removed and the restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
2. The volume of sediment storage shall be 3600 cubic feet per acre of contributory drainage.
3. The structure shall be inspected after each rain and repairs made as needed.
4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
5. The sediment trap shall be removed and the area stabilized when the construction drainage area has been properly stabilized.
6. All cut slopes shall be 1:1 or flatter.
MAXIMUM DRAINAGE AREA 3 ACRES

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- 1. Length - minimum of 50' (*30' for single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. 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 to use geotextile.
4. 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.
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 protected with a mountable berm with 5:1 slopes and a minimum of 8" of stone over the pipe. Pipe has to be sized according to the drainage. When the S.O.E 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.
6. 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 over the entire length of the stabilized construction entrance.

Table with columns: U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE, PAGE, MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING & EROSION PERMITS.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE. SUPER SILT FENCE, AND EARTH DIKE (8 DAYS).
3. DEMOLISH EXISTING STRUCTURES, REMOVE EXISTING PAVING AND GRAVEL, AS NECESSARY, PERFORM CLEARING.
4. WITH PERMISSION OF HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR, PERFORM ROUGH GRADING, OBTAIN BUILDING PERMIT AND BEGIN BUILDING AND WALL CONSTRUCTION. (3 WEEKS).
5. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL UTILITIES INCLUDING STORM DRAINS, WATER AND SEWER. INSTALL INLET SEDIMENT TRAPS AS SHOWN (4 WEEKS).
6. INSTALL CURBS AND GUTTER THIRN PAVEL. UNIFORM OBTAINING THE ACCESS PERMIT. INSTALL ROAD TO CONTACT WITH ROUTE 216. (3 WEEKS).
7. APPLY TOPSOIL AND STABILIZE DISTURBED AREAS AS NECESSARY IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 DAYS).
8. INSTALL LOGS, LANDSCAPING, STONES, AND STRUTS, AND COMPLETE REMAINING BUILDING CONSTRUCTION. (4 MONTHS).
9. UPON APPROVAL OF HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS).

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Date: 1/30/99
County Health Officer

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.
Date: 11-3-99
Developer

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.
Date: 8-10-99
Engineer

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
Date: 9/9/99
Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Date: 9/9/99
Howard Soil Conservation District

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Date: 12/16/99
Director
Date: 1/15/99
Chief, Development Engineering Division
Date: 12/7/99
Chief, Division of Land Development

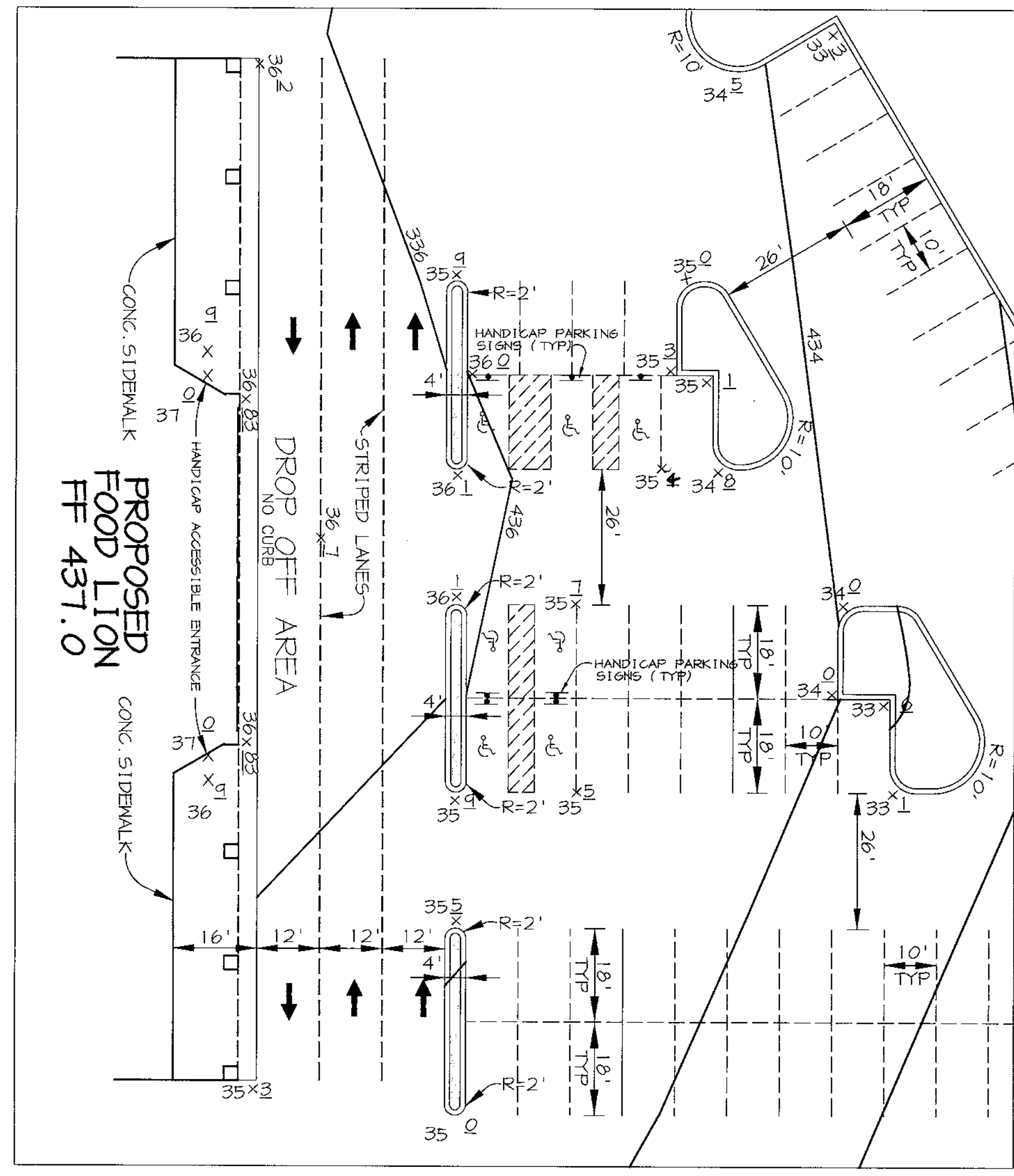
ADDED SHEET 11.

Table with columns: DATE NO., REVISION, OWNER / DEVELOPER. Includes contact information for Aston Properties.

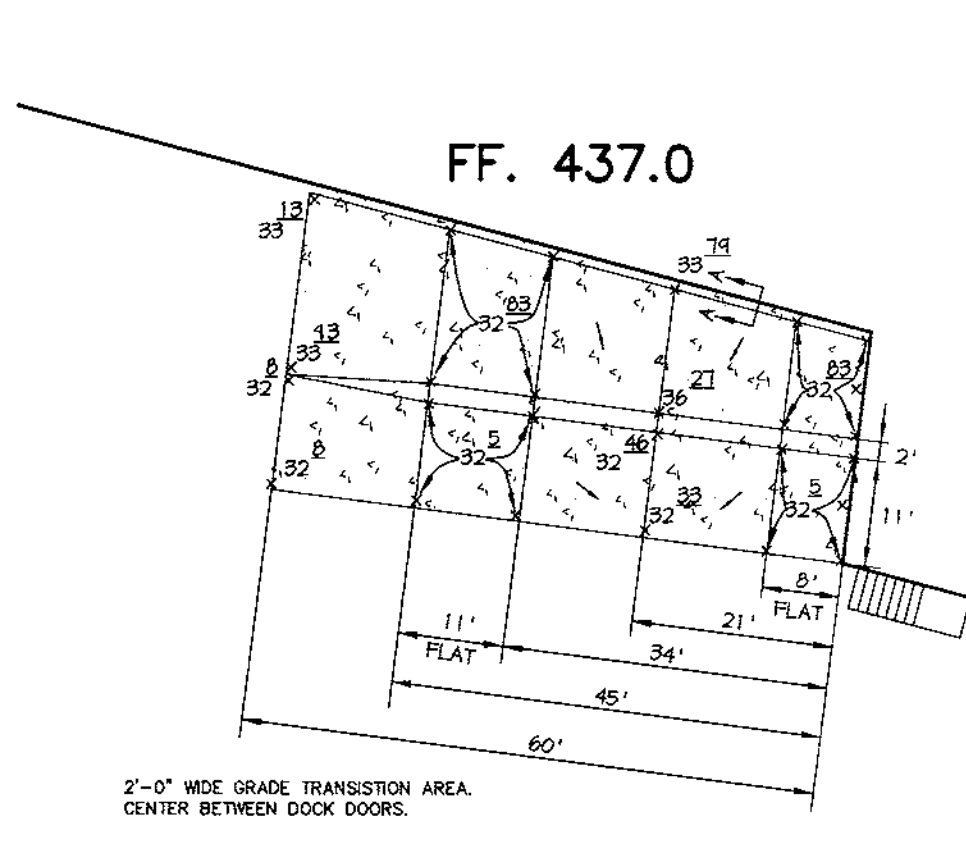
PROJECT: FOOD LION P-3000
AREA: PARCEL 240, TAX MAP 46, BLOCK 4, 5th ELECTION DISTRICT, ZONED B-2, HOWARD COUNTY, MARYLAND.
TITLE: DETAILS AND NOTES

RIEMER MUEGGE & ASSOCIATES INC.
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21046
tel: 410.997.8900 fax: 410.997.9282

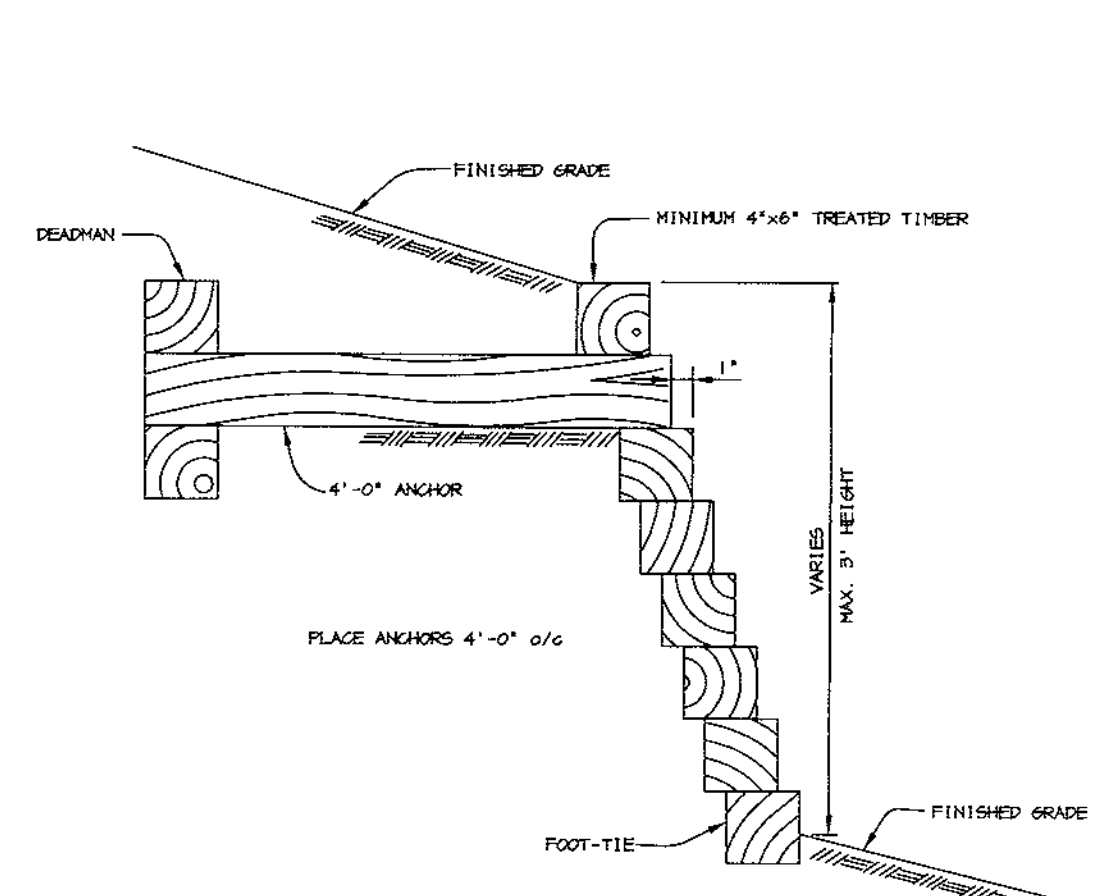
DESIGNED BY: C.J.R.
DRAWN BY: DRD
PROJECT NO: SDPT-DWG
DATE: NOVEMBER 4, 1999
SCALE: AS SHOWN
DRAWING NO. 7 OF 12
SDP-99-75



ENTRANCE DROP OFF DETAIL
SCALE: HOR. - 1" = 20'



LOADING AREA CONCRETE PAD DETAILS
NO SCALE



RETAINING WALL DETAIL
NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	
<i>Don Matney</i>	11/20/99
COUNTY HEALTH OFFICER	DATE
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.	
<i>John Smith</i>	12/10/99
DIRECTOR	DATE
<i>Mike Pappas</i>	11/15/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Cindy Hermita</i>	12/7/99
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE

10 4 00	ADDED SHEET 11.
DATE NO.	REVISION

OWNER / DEVELOPER
ASTON PROPERTIES
6525 MORRISON BLVD. SUITE 300
CHARLOTTE, NC 28211
(704) 366-7331

PROJECT
FOOD LION P-3000

AREA
PARCEL 240
TAX MAP 46, BLOCK 4
5th ELECTION DISTRICT ZONED B-2
HOWARD COUNTY, MARYLAND

TITLE
NOTES & DETAILS

RIEMER MUEGGE & ASSOCIATES INC
ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
8818 Centre Park Drive, Columbia, MD 21045
tel 410.997.8900 fax 410.997.8282

DATE	DESIGNED BY: C.J.R.
	DRAWN BY: DRD
	PROJECT NO: 98372 SDPB.DWG
	DATE: NOVEMBER 4, 1999
	SCALE: AS SHOWN
	DRAWING NO. 8 OF 11

PERIMETER	ADJACENT TO 1/4 MILE PERIMETER PROPERTIES				ADJACENT TO ROADWAYS		
	2	3	4	5	6	7	
LANDSCAPE TYPE	C	A	E*	E*	E*	E	
LINEAR FEET OF ROADWAY FRONTAGE / PERIMETER	80	115	220	264	310	500	
CREDIT FOR EXISTING VEGETATION (YES, NO, "NEAR FEET") (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO	
CREDIT FOR WALL FENCE OR BERRY (YES, NO, "NEAR FEET") (DESCRIBE BELOW IF NEEDED)	NO	NO	NO	NO	NO	NO	
NUMBER OF PLANTS REQUIRED							
SHADE TREES	2	2	6	7	9	11	
EVERGREEN TREES	4	-	55	66	93	105	
SHRUBS	-	-	35**	66	43	85**	
NUMBER OF PLANTS PROVIDED							
SHADE TREES	2	2	6	7	9	11	
EVERGREEN TREES	4	-	4**	-	-	4**	
SMALL FLOWERING TREES	-	-	-	-	-	-	
SHRUBS	-	-	-	-	-	-	

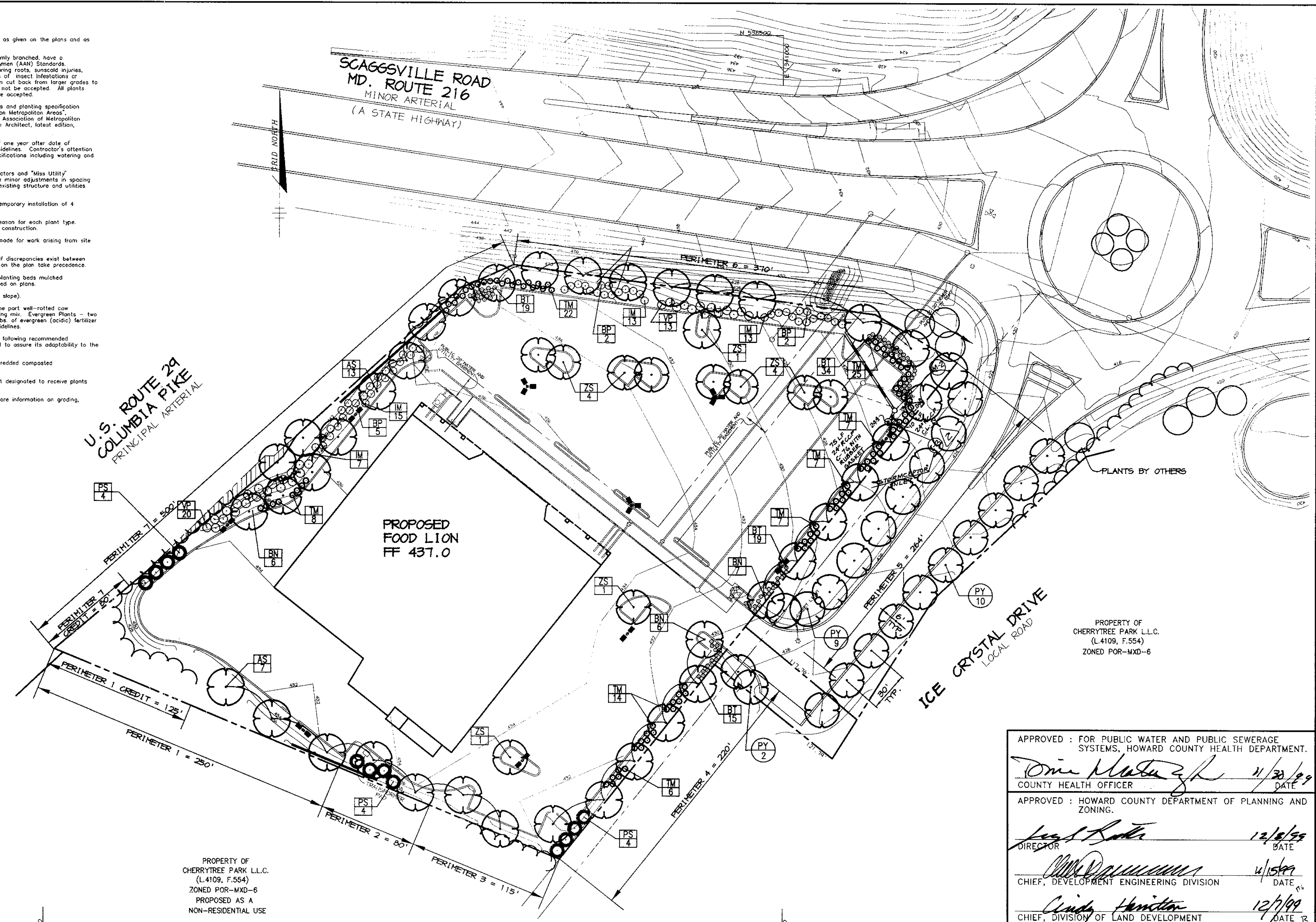
PARKING LOT INTERNAL LANDSCAPING	
NUMBER OF PARKING SPACES	214
NUMBER OF SHADE TREES / ISLANDS* REQUIRED (1/20 SPACES)	11
NUMBER OF TREES PROVIDED	
SHADE TREES	11
OTHER TREES (2:1 SUBSTITUTION)	
NUMBER OF ISLANDS REQUIRED	12
* 200 SF PLANTING AREA / ISLAND	

STREET TREES	
LF OF PUBLIC ROW	630
SMALL STREET TREES REQUIRED @ 1 TREE / 30'	21
STREET TREES PROVIDED	21

PLANTING SPECIFICATIONS

- Plants, related material, and operations shall meet the detailed description as given on the plans and as described herein.
- All plant material, unless otherwise specified, shall be nursery grown, uniformly branched, have a vigorous root system, and shall conform to American Association of Nurserymen (AAN) Standards. Plant material shall be healthy, vigorous, free from defects, decay, disfiguring roots, unsound injuries, diseases of the bark, plant disease, insect pest eggs, borers and all forms of insect infestations or objectionable disfigurements. Plant material that is weak or which has been cut back from larger grades to meet specified requirements will be rejected. Trees with forked leaders will not be accepted. All plants shall be freshly dug, no needed-in plants or plants from cold storage will be accepted.
- Unless otherwise specified, all general conditions, planting operations, details and planting specifications shall conform to "Landscape Specification Guidelines for Baltimore-Washington Metropolitan Area", (hereinafter "Landscape Guidelines") approved by the Landscape Contractors Association of Metropolitan Washington and the Potomac Chapter of the American Society of Landscape Architect, latest edition, including all appendices.
- Contractor shall be required to guarantee all plant material for a period of one year after date of acceptance in accordance with the appropriate section of the Landscape Guidelines. Contractor's attention is directed to the maintenance requirements found within the one year specifications including watering and replacement of specified plant material.
- Contractor shall be responsible for notifying utility companies, utility contractors and "Miss Utility" a minimum of 48 hours prior to beginning any work. Contractor may make minor adjustments in spacing and location of plant material to avoid conflicts with utilities. Damage to existing structure and utilities shall be repaired at the expense of the Contractor.
- Protection of existing vegetation to remain shall be accomplished by the temporary installation of 4 foot high snow fence at the drip line.
- 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.
- Bid shall be based on actual site conditions. No extra payment shall be made for work arising from site conditions differing from those indicated on drawings and specifications.
- Plant quantities are provided for the convenience of the contractor only. If discrepancies exist between quantities shown on plan and those shown on the plant list, the quantities on the plan take precedence.
- All shrubs and groundcover areas shall be planted in continuous prepared planting beds mulched with composted hardwood mulch as detailed and specified except where noted on plans.
- Positive drainage shall be maintained in planting beds (minimum 2 percent slope).
- Planting mix shall be as follows: Deciduous Plants - Two parts topsoil, one part well-rotted cow or horse manure. Add 3 lbs of standard fertilizer per cubic yard of planting mix. Evergreen Plants - two parts topsoil, one part humus or other approved organic material. Add 3 lbs of evergreen (acidic) fertilizer per cubic yard of planting mix. Topsoil shall conform to the Landscape Guidelines.
- Weed Control: Incorporate a pre-emergent herbicide into the planting bed following recommended rates on the label. Caution: Be sure to carefully check the chemical used to assure its adaptability to the specific groundcover to be treated.
- Mulch: Groundcover beds should be mulched with minimum 2 inches of shredded composted hardwood, or as specified on the details, whichever is greater.
- All areas within contract limits disturbed during or prior to construction not designated to receive plants and mulch shall be fine graded and seeded.
- This plan is intended for landscape use only. See other plan sheets for more information on grading, sediment control, layout, etc.

NOTE: LANDLORD SHALL PRESERVE ANY TREES OR BUSHES ON SITE THAT DO NOT INTERFERE WITH FOOD LION BUILDING OR DRIVE LOCATIONS. THE DEVELOPER SHALL USE HIS JUDGEMENT IN REMOVING ANY TREES THAT INTERFERE WITH FOOD LION'S STORE VISIBILITY. THE DEVELOPER SHALL PRESERVE ALL PERIMETER VEGETATION WHEREVER POSSIBLE. IF ANY EXISTING VEGETATION IS REMOVED, THE DEVELOPER SHALL MAKE EVERY EFFORT TO REUSE ON SITE OR DONATE TO LOCAL PARK, ETC.



PROPERTY OF CHERRYTREE PARK LLC. (L4109, F.554) ZONED POR-MXD-6 PROPOSED AS A NON-RESIDENTIAL USE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
Donna M. ... 11/30/99
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
Scott ... 12/8/99
 DIRECTOR DATE

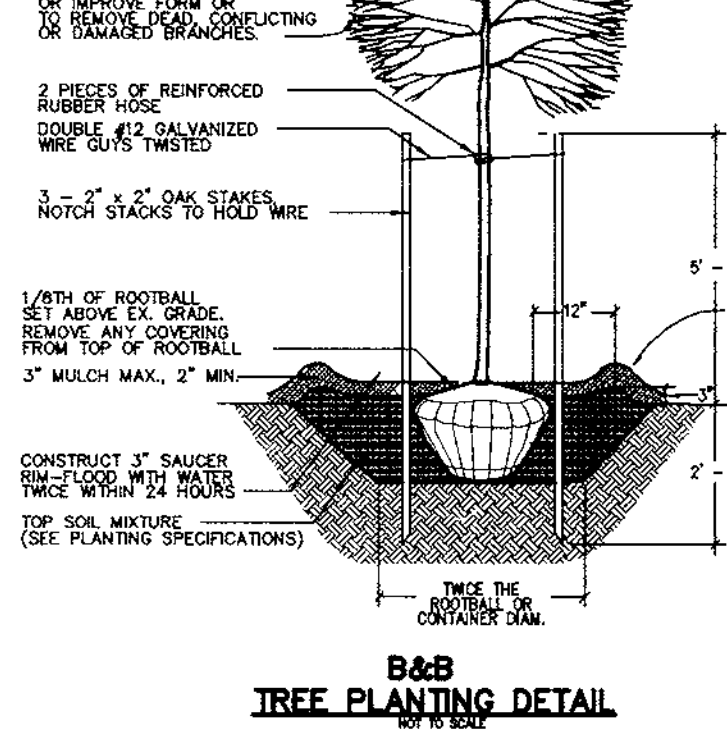
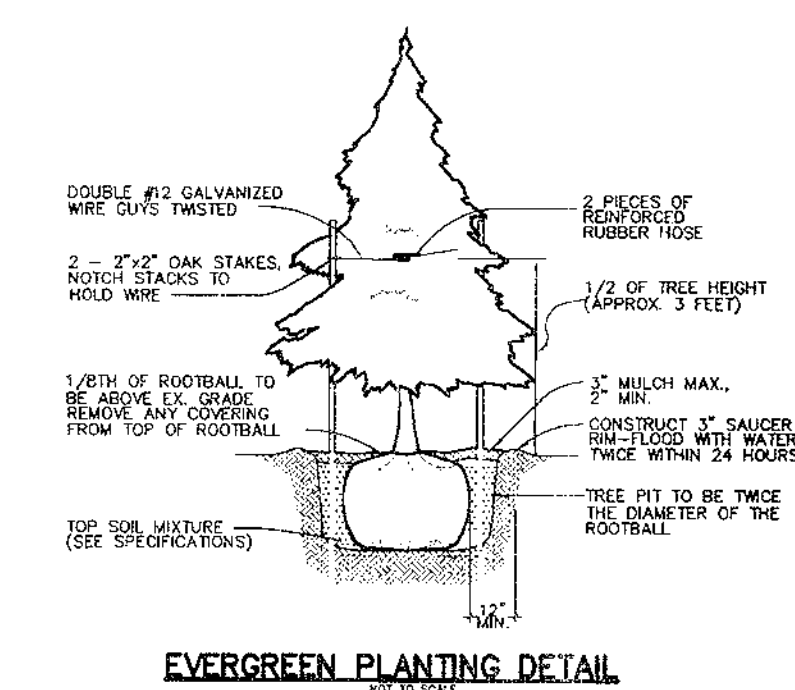
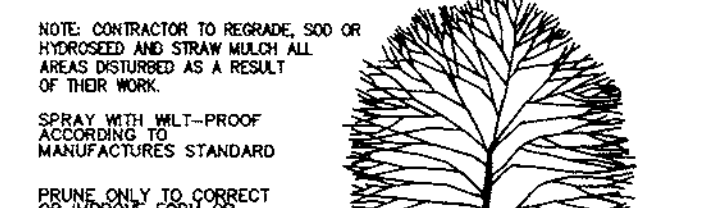
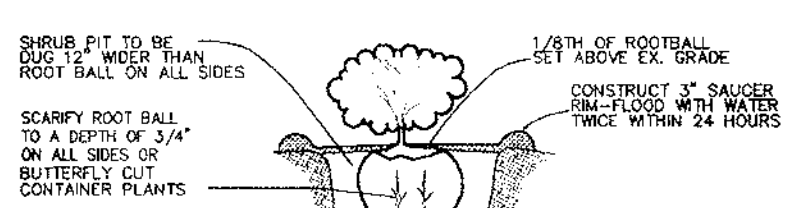
... 11/15/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

... 12/1/99
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

- NOTES:**
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE ALTERNATE COMPLIANCE WITH THE HOWARD COUNTY RESEARCH AND DEVELOPMENT.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING MUST BE POSTED AS PART OF THE DPW DEVELOPER AGREEMENT IN THE AMOUNT OF \$31,470.00.
 - 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.

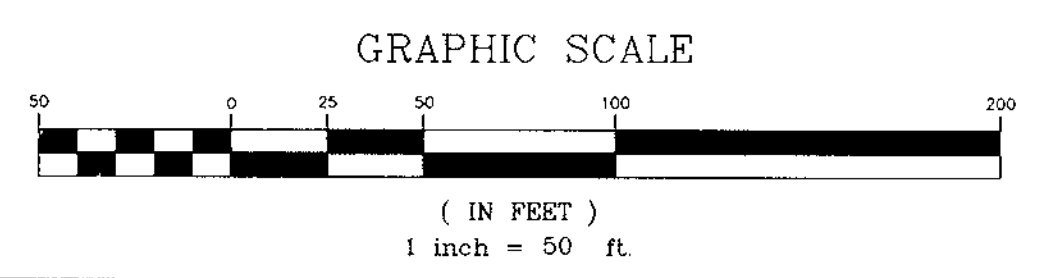
... 11.3.99
 NAME DATE



PLANT LIST					
SYMBOL	QTY.	SCIENTIFIC / COMMON NAME	SIZE	ROOT	REMARKS
BN	19	Betula nigra 'Heritage' / Heritage Clump Birch	10-12'	B&B	multi-stem
AS	20	Acer saccharum 'Green Mountain' / Green Mountain Sugar Maple	21-3" cal.	B&B	full form
ZS	11	Zelkova serrata 'Village Green' / Village Green Japanese Zelkova	21-3" cal.	B&B	full form
PS	12	Pinus strobus / White Pine	6-8'	B&B	full form
PY*	21	Prunus yedoensis 'Pink Shell' / 'Pink Shell' Yoshimo Cherry	21-3" cal.	B&B	full form
BT	87	Berberis thunbergii var. atropurpurea / 'Crimson Pygmy' / Crimson Pygmy Barberry	24-30"	cont.	plant approx. 3' o.c.
IM	48	Ilex x meserveae 'Blue Princess' / Blue Princess Holly	30-36"	cont.	plant approx. 6' o.c.
BP	9	Ilex x meserveae 'Blue Prince' / Blue Prince Holly	30-36"	cont.	plant approx. 6' o.c.
VP	33	Viburnum plicatum tomentosum 'Shasta' / Shasta Doublefile Viburnum	3-4'	B&B	plant approx. 7' o.c.
TM	96	Taxus x media densiformis 'Angelica' / Angelica Yew	24-30"	B&B	plant Δ 5' o.c., do not shear

PLANTING LEGEND

- PROP. SHADE TREE
- PROP. EVERGREEN TREE
- PROP. CONIFERUS SHRUB
- PROP. BROADLEAF SHRUB
- PROP. TREELINE
- PROP. TREE BY MD SHA
- EXISTING TREELINE
- STREET TREE
- PERIMETER OR PKG REGIMENT



10.4.00/2 MODIFIED I-3 AND ADDED M-2, ADDED SHEET II
 DATE NO. REVISION

OWNER / DEVELOPER
 ASTON PROPERTIES
 6925 MORRISON BLVD., SUITE 300
 CHARLOTTE, NC 28211
 (704) 366-7337

PROJECT
FOOD LION P-3000

AREA
 PARCEL 240
 TAX MAP 46, BLOCK 4
 5th ELECTION DISTRICT ZONED B-2
 HOWARD COUNTY, MARYLAND

TITLE
LANDSCAPE PLAN

RIEMER MUEGGE & ASSOCIATES INC.
 ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING
 8818 Centre Park Drive, Columbia, MD 21046
 tel 410.997.9900 fax 410.997.9282

DESIGNED BY: R.A.F.
 DRAWN BY: G.T.H.
 PROJECT NO. 98372
 LSCP.DWG
 DATE: NOVEMBER 4, 1999
 SCALE: AS SHOWN
 DRAWING NO. 10 OF 11