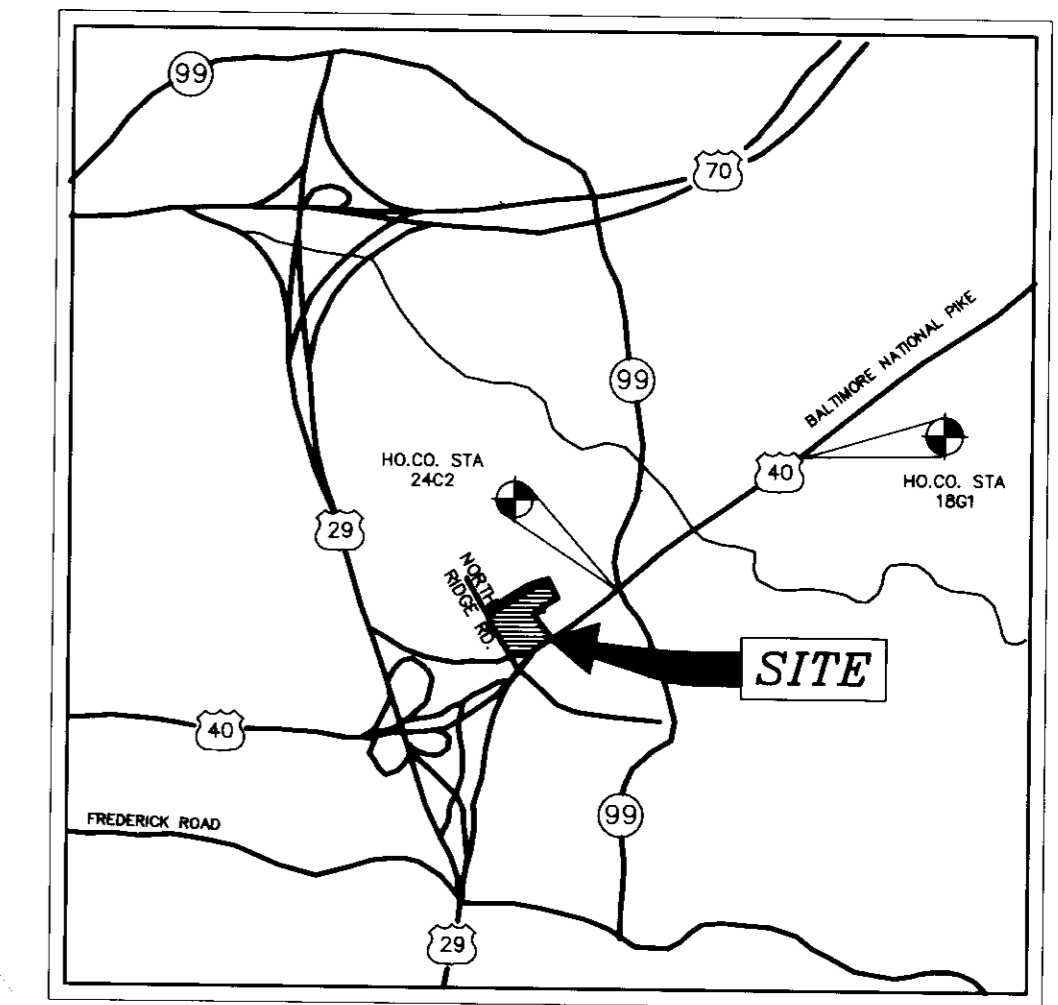


INDEX OF SHEETS

NO	TITLE
1	SITE DEVELOPMENT PLAN
2	SEDIMENT CONTROL PLAN
3	SEDIMENT CONTROL NOTES AND DETAILS
4	STORMDRAIN PROFILES
5	DRAINAGE AREA MAP
6	LANDSCAPE PLAN
7	MISCELLANEOUS DETAILS

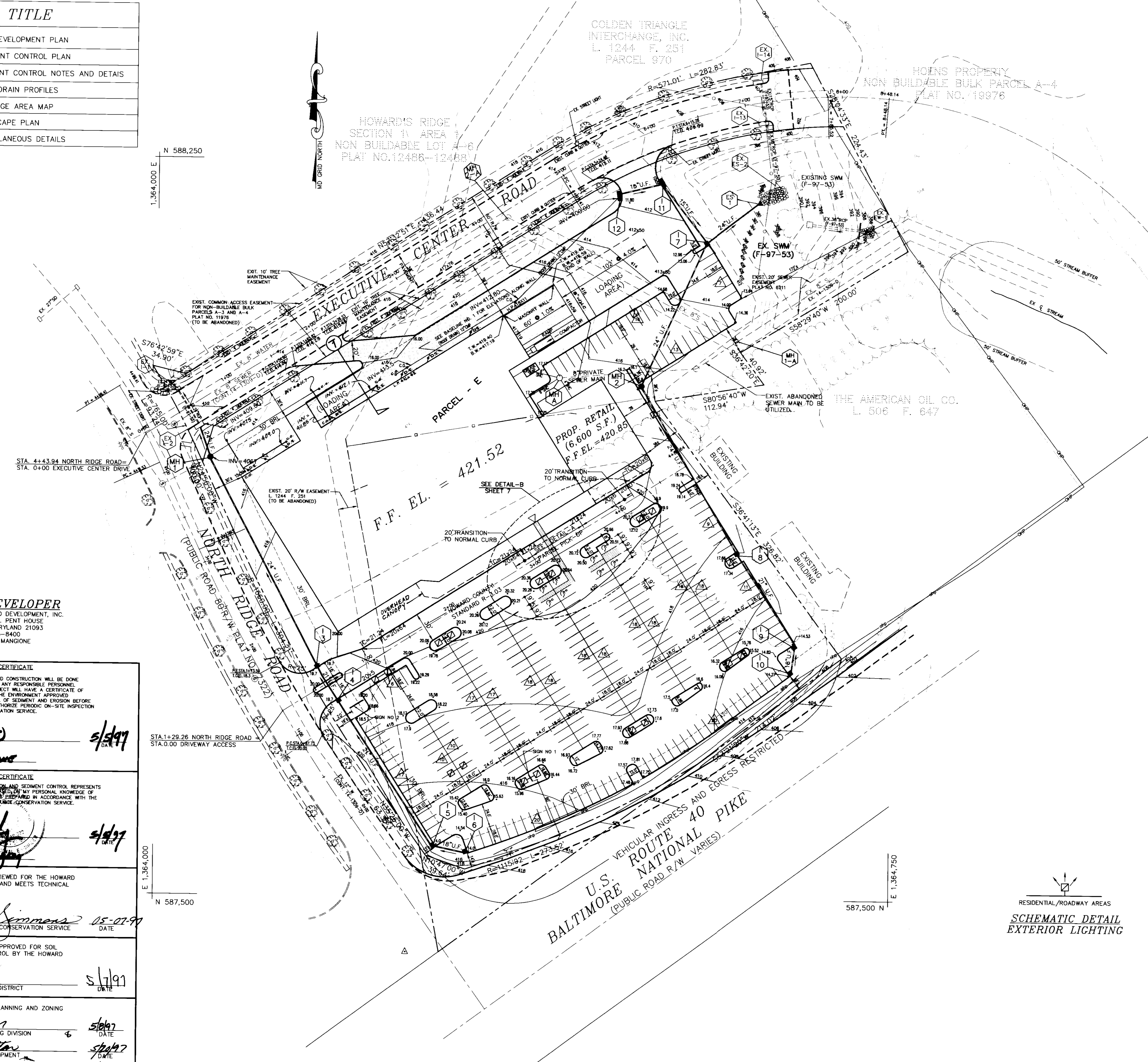


PROJECT	96011	DATE	DEC. 96
ILLUSTRATION	MMP	ENGINEERING	MMP
SCALE	1" = 50'	APPROVAL	JBM

NO.	1	DATE	2-2-98
DESCRIPTION	REV. INV. M.H.I. & T.C. ELEV. EXECUTIVE CENTER	REVISIONS	
NO.	2	DATE	1-1-98
DESCRIPTION	REV. ROOF DRAIN, ADD GROUND, REV. W.H.C.	REVISIONS	

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
EXECUTIVE CENTER PARCEL E
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MD
SITE DEVELOPMENT PLAN

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland, 21042
 (410) 987-0296 Balt. (301) 821-5521 Wash. (410) 987-0288 Fax



GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/CONSTRUCTION INSPECTIONS DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE (5) DAYS PRIOR TO ANY EXCAVATION WORK:
 MISS UTILITY 1-800-257-7777
 C&P TELEPHONE COMPANY 725-9976
 HOWARD COUNTY BUREAU OF UTILITIES 313-4900
 AT&T CABLE LOCATION DIVISION 393-3533
 BALTIMORE GAS & ELECTRIC 685-0123
 STATE HIGHWAY ADMINISTRATION 531-5533
 HOWARD COUNTY DEPT. OF PUBLIC WORKS/CONSTRUCTION INSPECTION DIVISION 313-1880
- PROJECT BACKGROUND:
 LOCATION: 2ND ELECTION DISTRICT, TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
 ZONING: B-2 PER 10/18/93 COMPREHENSIVE ZONING PLAN
 TOTAL TRACT AREA: 8.24 AC ±
 DATE PREVIOUS PLANS APPROVED AND DPZ REFERENCE #:
 -S-95-01, DECEMBER 2, 1994
 -P-96-08, JANUARY 26, 1996
 -F-97-53
- TOPOGRAPHY SHOWN HEREON IS BASED ON SDP 96-11 MASS GRADING PLAN AND F-97-53
- COORDINATES BASED ON NAD '83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 1801 AND 24C2.
 STA. NO. 1801 N 589,984.950
 E 1,367,750.240
 STA. NO. 24C2 N 589,648.319
 E 1,366,038.130
- WATER AND SEWER ARE PUBLIC, CONTRACT # 14-1309-D.
- WATER METERS SHALL BE LOCATED INSIDE BUILDINGS.
- STORMWATER MANAGEMENT IS PROVIDED BY RETENTION POND UNDER F-97-53. STORMWATER MANAGEMENT POND WILL BE PRIVATE.
- NO FLOODPLAIN OR WETLANDS EXIST ON SITE.
- PROPERTY SUBJECT TO ZONING BOARD CASE NO. BA-941 DATED OCTOBER 18, 1993.
- USE CONCRETE CURB AND GUTTER STD. R-3-01 UNLESS OTHERWISE NOTED.
- SITE ANALYSIS DATA CHART:
 TOTAL PROJECT AREA: 6.99 AC. OR 304,484.4 S.F.
 LIMIT OF DISTURBED AREA: 6.5 AC.
 PRESENT ZONING: B-2
 PROPOSED USE: FOOD STORE
 FLOOR SPACE: 63,500 S.F.
 NUMBER OF PARKING SPACES REQUIRED: (5X1000 SPACES)=318
 NUMBER OF PARKING SPACES PROVIDED: 327
 BUILDING COVERAGE ON SITE: 11.93 AC. AND 21.9% OF GROSS AREA
- CONSTRUCTION OF EXECUTIVE CENTER ROAD, STORMWATER MANAGEMENT FACILITY AND WATER MAIN ARE TO BE CONSTRUCTED UNDER F-97-53.
- REFER TO P-96-08 FOR SIGHT DISTANCE ANALYSIS.
- ALL STORM DRAIN PIPE TO BE "ULTRA FLOW" METAL PIPE UNLESS OTHERWISE SHOWN.
- ALL OUTDOOR LIGHTING SHALL BE DESIGNED & INSTALLED IN ACCORDANCE WITH ZONING SECTION 134.
- MAIN ENTRANCE TO BE UTILIZED BY THE HANDICAPPED PERSONS.
- - DENOTES P-3 PAVEMENT AREA.

ADDRESS CHART	
LOT/PARCEL NO.	STREET ADDRESS
PARCEL - E	8800 EXECUTIVE CENTER ROAD

PERMIT INFORMATION CHART					
SUBDIVISION NAME	SECTION/AREA	PARCEL #	TAX MAP	ELEC. DIST.	CENSUS TRACT
HOWARD COUNTY EXECUTIVE CENTER		PARCEL - E	24	2ND	6026
PLAT #	BLOCK #	ZONE	TAX MAP	ELEC. DIST.	CENSUS TRACT
12768	6	B-2	24	2ND	6026
WATER CODE	F03	SEWER CODE	1452800		

OWNER/DEVELOPER
 M-10 RESIDENTIAL LAND DEVELOPMENT, INC.
 1205 YORK ROAD, PENT HOUSE
 LUTHERVILLE, MARYLAND 21093
 (410) 825-8400
 ATTN: LOUIS MANGIONE

DEVELOPER'S CERTIFICATE
 I 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 INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.
Chris Mangione 5/1/97
 SIGNATURE OF DEVELOPER
 Chris Mangione
 PRINTED NAME OF DEVELOPER

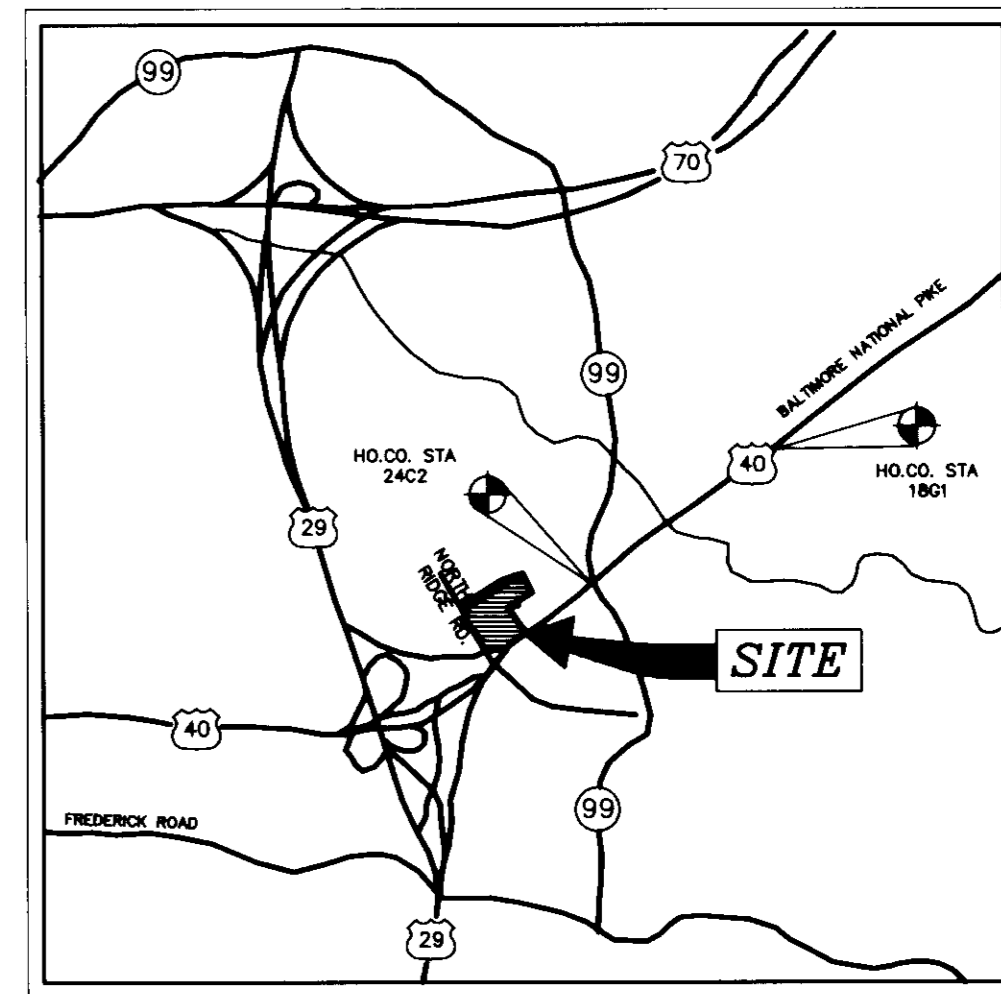
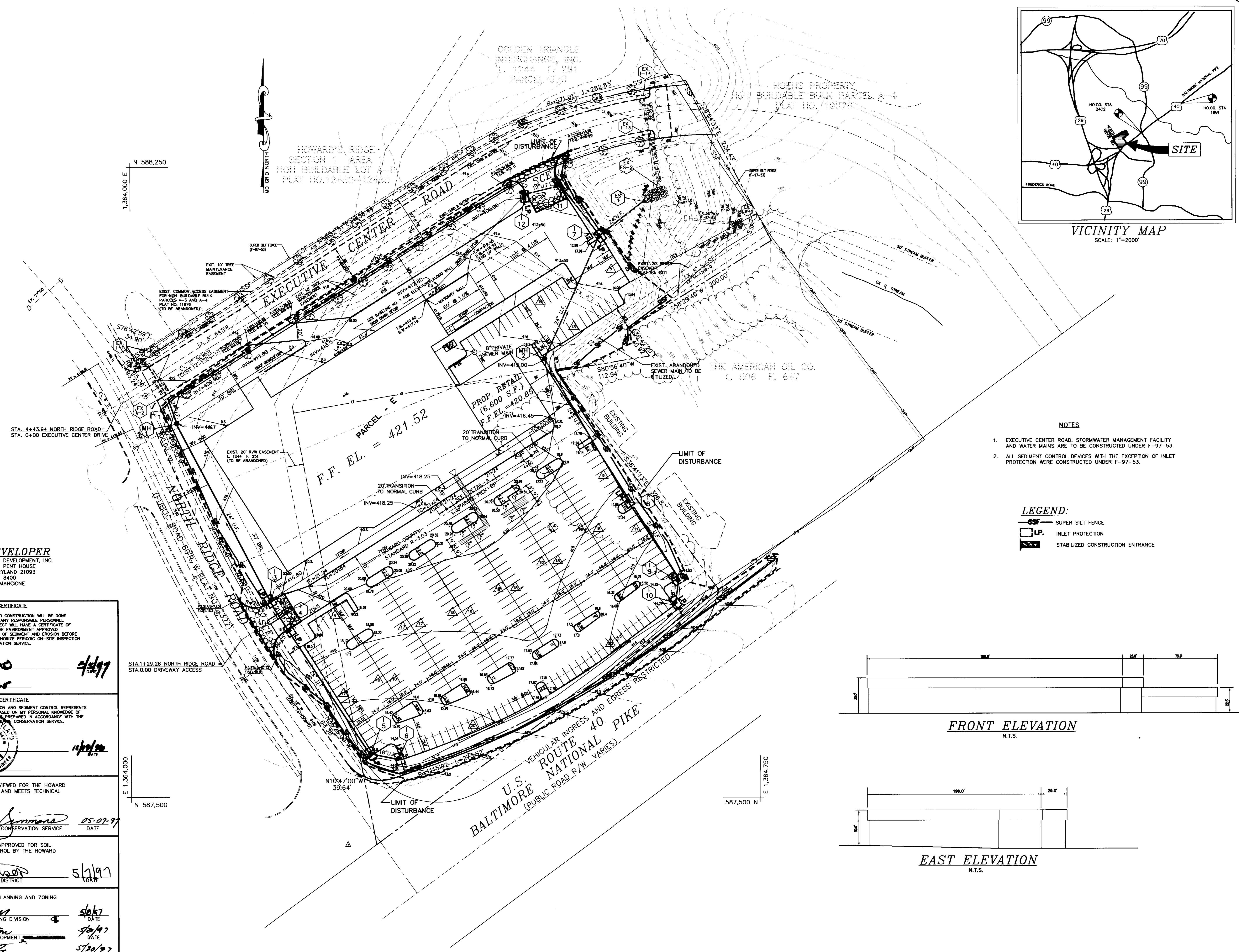
ENGINEER'S CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN PREPARED BY MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.
John Milder 5/1/97
 SIGNATURE OF ENGINEER
 John Milder
 PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl K. Simmons 05-07-97
 USDA - NATURAL RESOURCE CONSERVATION SERVICE
 DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
John R. Robertson 5/1/97
 HOWARD COUNTY SOIL CONSERVATION DISTRICT
 DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Cheryl K. Simmons 5/6/97
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE
Andy Hamilton 5/6/97
 DIVISION OF LAND DEVELOPMENT
 DATE
Michael Smith 5/26/97
 DIRECTOR
 DATE

96011.DWG(SDP) SDP



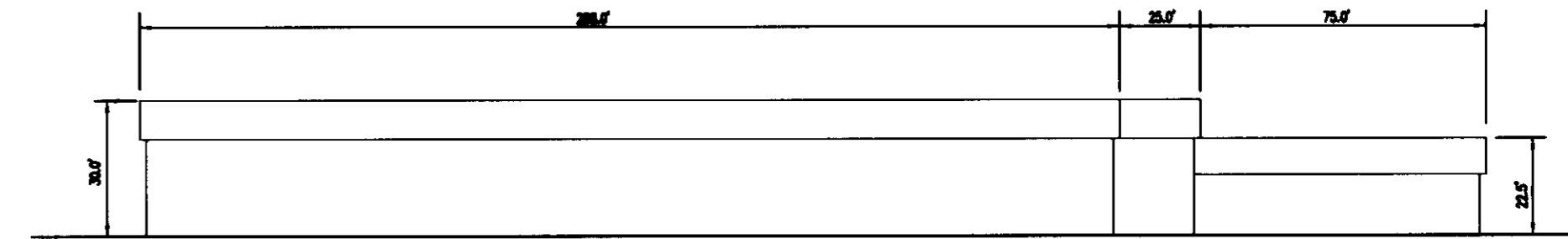
VICINITY MAP
SCALE: 1"=2000'

NOTES

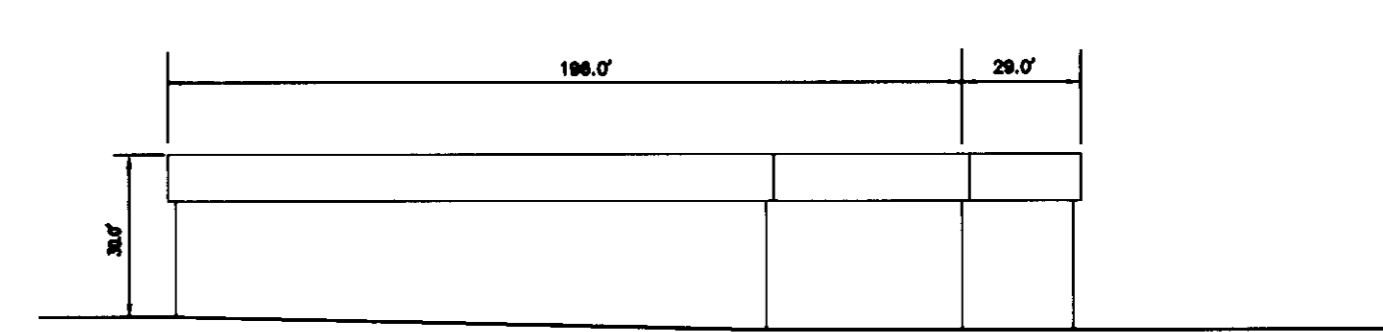
- EXECUTIVE CENTER ROAD, STORMWATER MANAGEMENT FACILITY AND WATER MAINS ARE TO BE CONSTRUCTED UNDER F-97-53.
- ALL SEDIMENT CONTROL DEVICES WITH THE EXCEPTION OF INLET PROTECTION WERE CONSTRUCTED UNDER F-97-53.

LEGEND:

- SUPER SILT FENCE
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE



FRONT ELEVATION
N.T.S.



EAST ELEVATION
N.T.S.

OWNER/DEVELOPER
M-10 RESIDENTIAL LAND DEVELOPMENT, INC.
1205 YORK ROAD, PENT HOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400
ATTN: LOUIS MANGONE

DEVELOPER'S CERTIFICATE

I 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 INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Louis Mangone 4/1/97
SIGNATURE OF DEVELOPER DATE
FRANK NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

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 NATURAL RESOURCE CONSERVATION SERVICE.

Chris K. Simmons 11/2/96
SIGNATURE OF ENGINEER DATE
FRANK NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Chris K. Simmons 05-07-97
USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

John P. Robinson 5/1/97
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chris K. Simmons 5/6/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Chris K. Simmons 5/20/97
DIVISION OF LAND DEVELOPMENT DATE

Chris K. Simmons 5/20/97
DIRECTOR DATE

Project	96011	Date	DEC. 96
Illustration	MMP	Engineering	MMP
Scale	1" = 50'	Approval	JDM

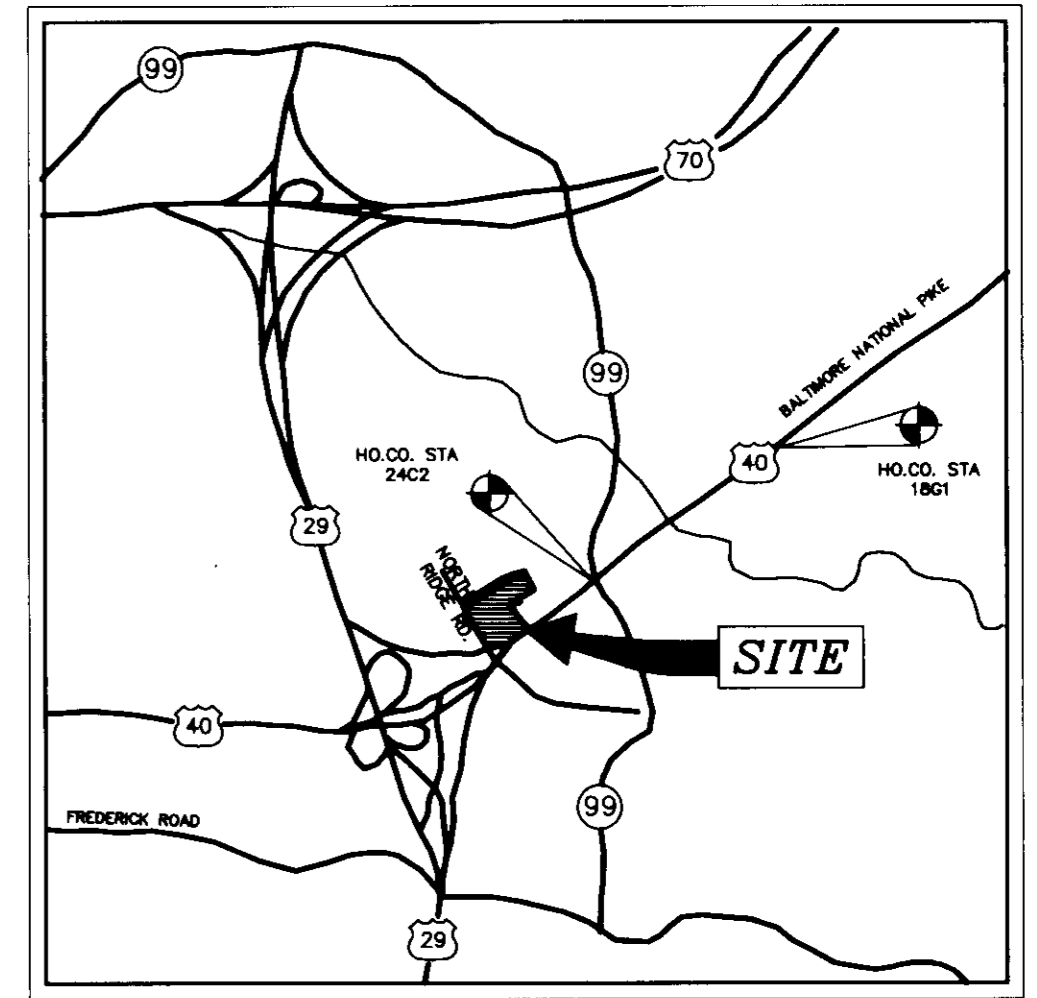
REV	NO.	DESCRIPTION	DATE
1	1	REV INV/MH & T.C ELEV& EXECUTIVE CENTER RD.	1-2-96

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
EXECUTIVE CENTER PARCEL E
2ND ELECTION DISTRICT
HOWARD COUNTY, MD
EROSION AND SEDIMENT CONTROL PLAN

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsy Hill Drive, Suite 202, Ellicott City, Maryland, 21042
(410) 387-0286 Fax (301) 821-5551 Wash. (410) 387-0288 Fax

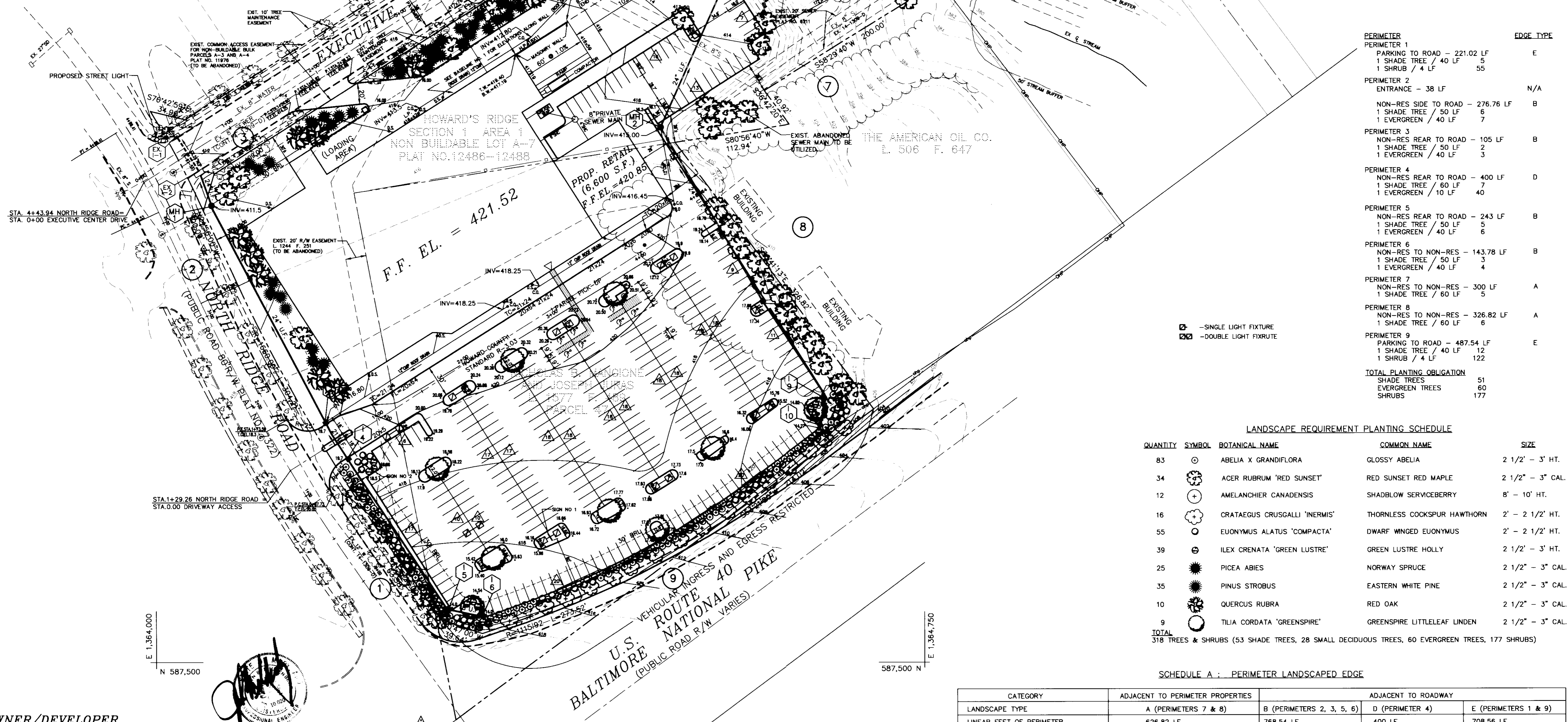
GENERAL NOTES:
 - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 18.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 - STREET TREES AND STORMWATER MANAGEMENT AREA LANDSCAPING COVERED UNDER F-97-53, SEE SHEET 10 OF 12.
 - FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$ 14,400.

NOTE: THIS PLAN IS TO BE USED ONLY FOR THE PURPOSE OF LANDSCAPING.



VICINITY MAP
SCALE: 1"=2000'

1,364,000 E
N 588,250



PERIMETER	EDGE TYPE
PERIMETER 1 PARKING TO ROAD - 221.02 LF 1 SHADE TREE / 40 LF 1 SHRUB / 4 LF	E 5 55
PERIMETER 2 ENTRANCE - 38 LF	N/A
NON-RES SIDE TO ROAD - 276.76 LF 1 SHADE TREE / 50 LF 1 EVERGREEN / 40 LF	B 6 7
PERIMETER 3 NON-RES REAR TO ROAD - 105 LF 1 SHADE TREE / 50 LF 1 EVERGREEN / 40 LF	B 2 3
PERIMETER 4 NON-RES REAR TO ROAD - 400 LF 1 SHADE TREE / 60 LF 1 EVERGREEN / 10 LF	D 7 40
PERIMETER 5 NON-RES REAR TO ROAD - 243 LF 1 SHADE TREE / 50 LF 1 EVERGREEN / 40 LF	B 5 6
PERIMETER 6 NON-RES TO NON-RES - 143.78 LF 1 SHADE TREE / 50 LF 1 EVERGREEN / 40 LF	B 3 4
PERIMETER 7 NON-RES TO NON-RES - 300 LF 1 SHADE TREE / 60 LF	A 5
PERIMETER 8 NON-RES TO NON-RES - 326.82 LF 1 SHADE TREE / 60 LF	A 6
PERIMETER 9 PARKING TO ROAD - 487.54 LF 1 SHADE TREE / 40 LF 1 SHRUB / 4 LF	E 12 122
TOTAL PLANTING OBLIGATION	
SHADE TREES	51
EVERGREEN TREES	60
SHRUBS	177

LANDSCAPE REQUIREMENT PLANTING SCHEDULE

QUANTITY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE
83	⊙	ABELIA X GRANDIFLORA	GLOSSY ABELIA	2 1/2' - 3' HT.
34	⊙	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	2 1/2' - 3" CAL.
12	⊕	AMELANCHIER CANADENSIS	SHADBLow SERVICEBERRY	8' - 10' HT.
16	⊕	CRATAEGUS CRUGALLI 'INERMIS'	THORNLESS COCKSPUR HAWTHORN	2' - 2 1/2' HT.
55	⊙	EUONYMUS ALATUS 'COMPACTA'	DWARF WINGED EUONYMUS	2' - 2 1/2' HT.
39	⊙	ILEX CRENATA 'GREEN LUSTRE'	GREEN LUSTRE HOLLY	2 1/2' - 3' HT.
25	⊙	PICEA ABIES	NORWAY SPRUCE	2 1/2' - 3" CAL.
35	⊙	PINUS STROBUS	EASTERN WHITE PINE	2 1/2' - 3" CAL.
10	⊙	QUERCUS RUBRA	RED OAK	2 1/2' - 3" CAL.
9	⊙	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	2 1/2' - 3" CAL.
TOTAL				
318 TREES & SHRUBS (53 SHADE TREES, 28 SMALL DECIDUOUS TREES, 60 EVERGREEN TREES, 177 SHRUBS)				

SCHEDULE A: PERIMETER LANDSCAPED EDGE

CATEGORY	ADJACENT TO PERIMETER PROPERTIES		ADJACENT TO ROADWAY	
	A (PERIMETERS 7 & 8)	B (PERIMETERS 2, 3, 5, 6)	D (PERIMETER 4)	E (PERIMETERS 1 & 9)
LANDSCAPE TYPE	626.82 LF	768.54 LF	400 LF	708.56 LF
CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET)	NO	NO	NO	NO
CREDIT FOR WALL, FENCE, OR BERM (YES, NO, LINEAR FEET)	NO	NO	NO	NO
NUMBER OF PLANTS REQUIRED				
SHADE TREES	11	16	7	17
EVERGREEN TREES	20	20	0	0
SHRUBS	0	0	0	177
NUMBER OF PLANTS PROVIDED				
SHADE TREES	11	10	7	9
EVERGREEN TREES	20	20	40	0
OTHER TREES (2:1 SUBSTITUTION)	0	12	0	16
SHRUBS (10:1 SUBSTITUTION)	0	0	0	177

SCHEDULE B: PARKING LOT INTERNAL LANDSCAPING

NUMBER OF PARKING SPACES	327
NUMBER OF PLANTING ISLANDS REQUIRED	16
NUMBER OF PLANTING ISLANDS PROVIDED	16
NUMBER OF TREES REQUIRED	
SHADE TREES	16
NUMBER OF TREES PROVIDED	
SHADE TREES	16
OTHER TREES (2:1 SUBSTITUTION)	0

OWNER/DEVELOPER
 M-10 RESIDENTIAL LAND DEVELOPMENT, INC.
 1205 YORK ROAD, PENT HOUSE
 LUTHERVILLE, MARYLAND 21095
 (410) 825-8400
 ATTN: LOUIS MANGIONE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature]
 DIVISION OF LAND DEVELOPMENT
 [Signature]
 DIRECTOR

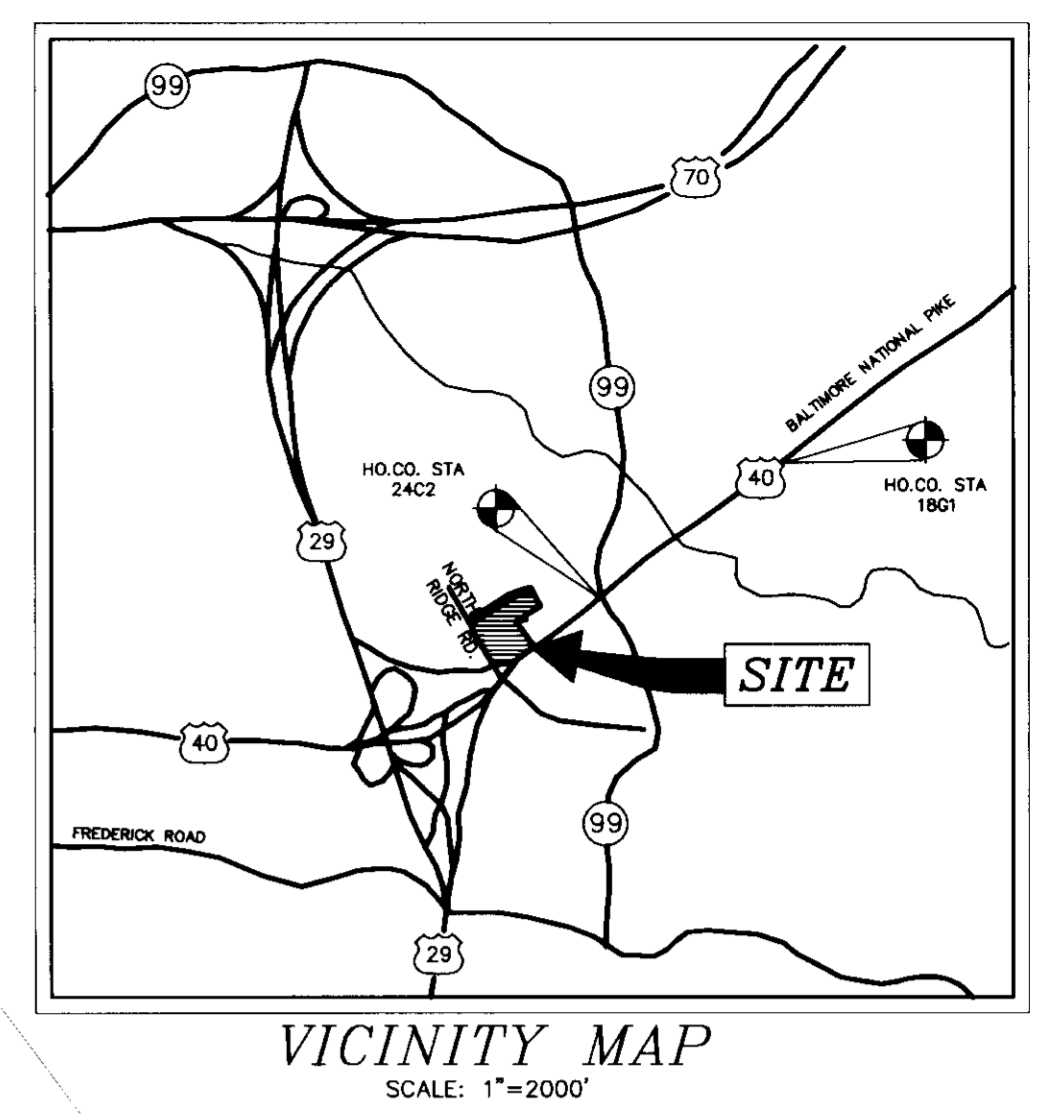
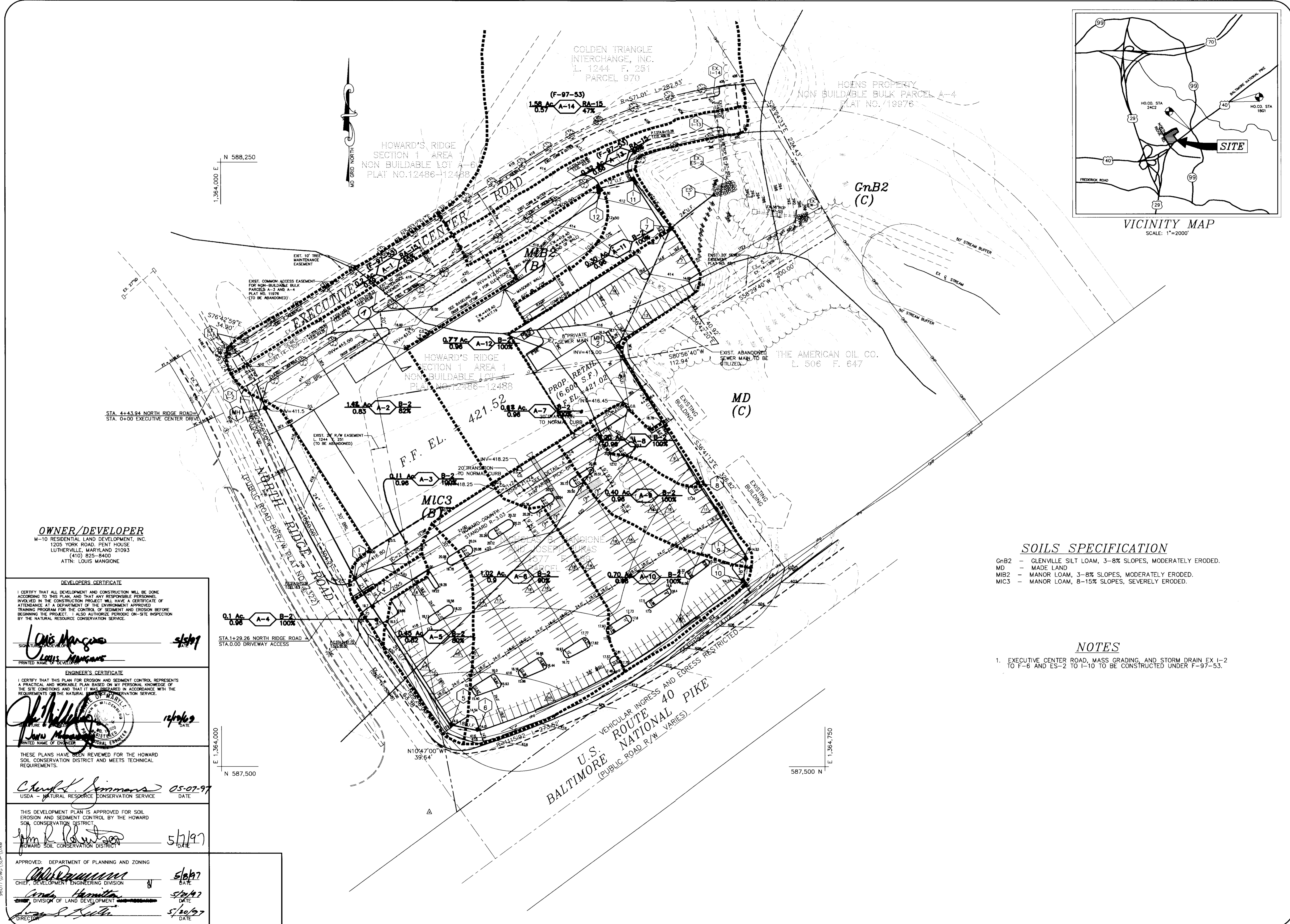
DATE: 5/6/07
 DATE: 5/16/07
 DATE: 5/20/07

DATE: DEC. 06
 PROJECT: 96011
 ILLUSTRATION: engineering
 MAP: MDP
 SCALE: 1" = 50'

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 84B
EXECUTIVE CENTER PARCEL E
 HOWARD COUNTY, MD
 LANDSCAPE PLAN
 2ND ELECTION DISTRICT

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dunes Hill Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 987-0266 Bal. (301) 821-5321 Wash. (410) 987-0298 Fax.

6 OF 7
 SDP-97-39



SOILS SPECIFICATION

GnB2 - GLENVILLE SILT LOAM, 3-8% SLOPES, MODERATELY ERODED.
 MD - MADE LAND
 MIB2 - MANOR LOAM, 3-8% SLOPES, MODERATELY ERODED.
 MIC3 - MANOR LOAM, 8-15% SLOPES, SEVERELY ERODED.

NOTES

1. EXECUTIVE CENTER ROAD, MASS GRADING, AND STORM DRAIN EX 1-2 TO F-6 AND ES-2 TO 1-10 TO BE CONSTRUCTED UNDER F-97-53.

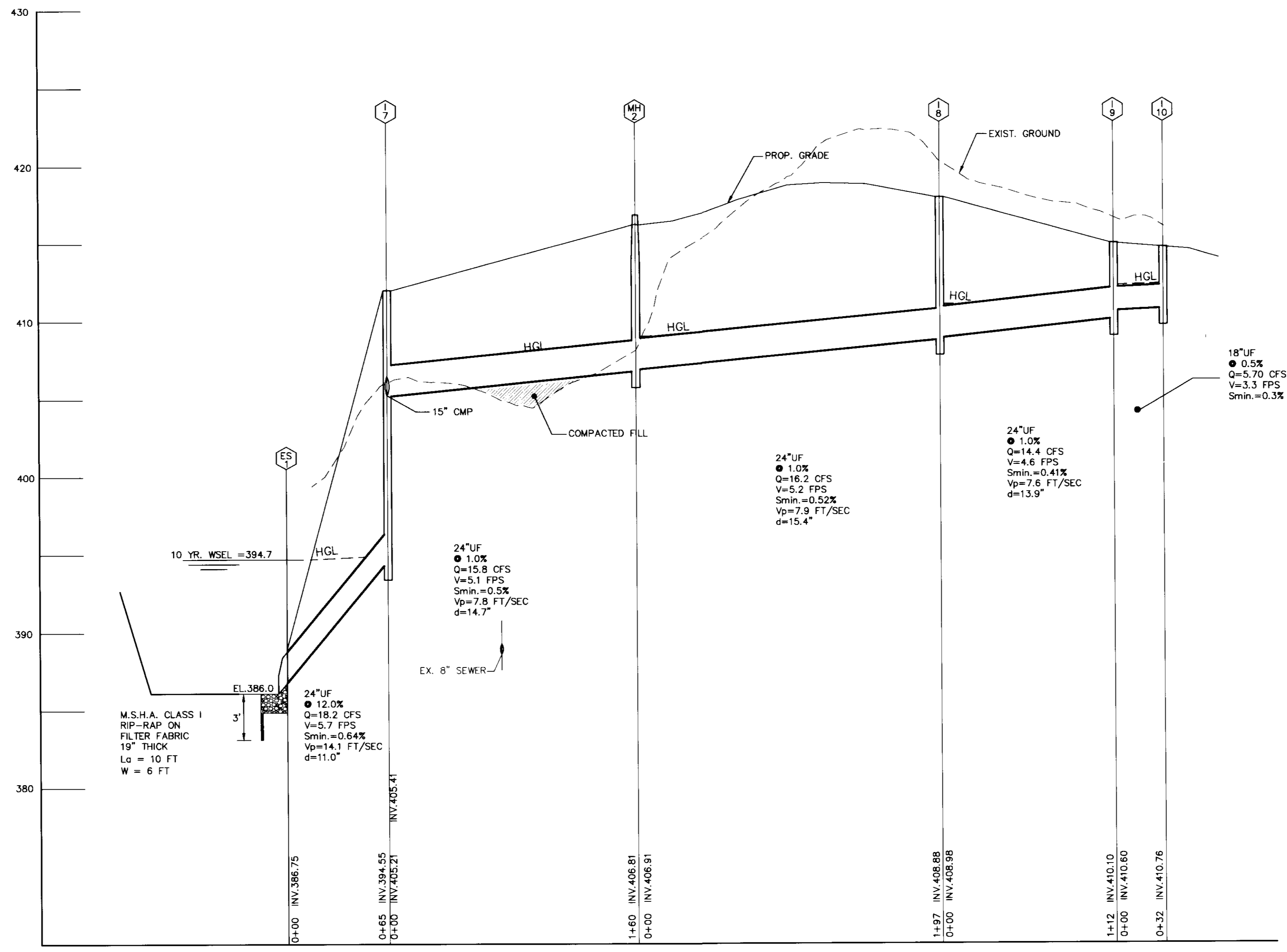
PROJECT	96011	DATE	DEC 96
ILLUSTRATION	MMP	ENGINEERING	JBM
SCALE	1" = 50'	APPROVAL	

REV.	DESCRIPTION	DATE
1	REV. DRAINAGE AREAS 1, 2, 3, A, 7, A-12	2-2-98

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
EXECUTIVE CENTER PARCEL E
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MD
DRAINAGE AREA MAP

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dressel Hall Drive, Suite 202, Ellicott City, Maryland 21042
 (410) 997-0236 Fax (301) 821-5521 Wash. (410) 997-0238 Fax

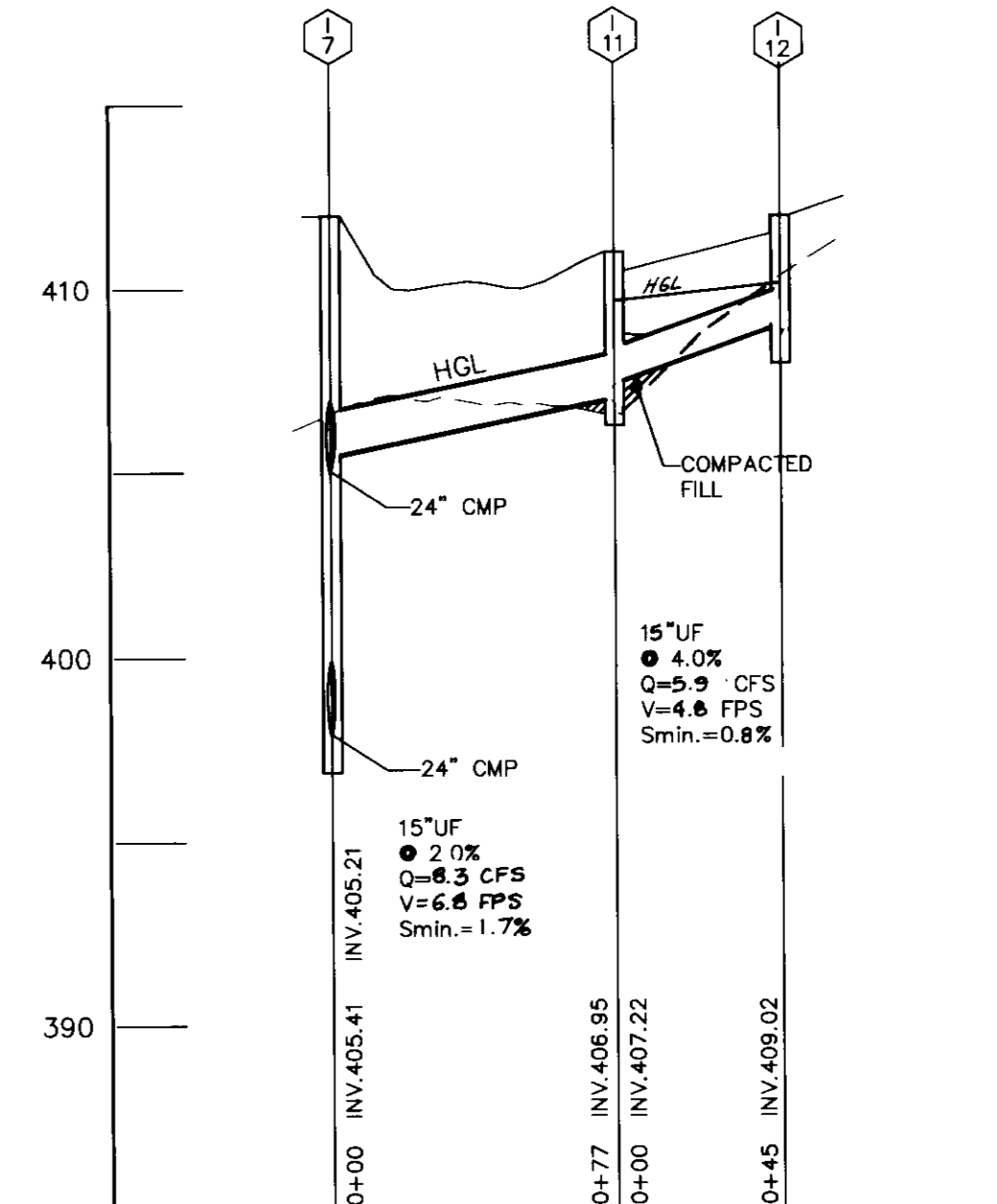
STRUCTURE SCHEDULE					
NO.	LOCATION	TOP EL.	INV. IN	INV. OUT	TYPE
I-3	N 587733 E 1364165	420.30	409.43	409.08	A-5
I-4	N 587698 E 1364187	420.30	409.95	409.85	A-5
I-5	N 587553 E 1364285	414.60	412.15	411.70	A-5
I-6	N 587546 E 1364319	414.60	-	412.47	A-5
I-7	N 588168 E 1364558	413.30	405.41 405.21	394.55	A-5
I-8	N 587853 E 1364590	418.10	408.88	408.88	A-5
I-9	N 587758 E 1364651	415.13	410.60	410.10	A-5
I-10	N 587731 E 1364646	414.87	-	410.76	A-5
I-11	N 588228 E 1364510	411.15	407.22	406.95	A-10
I-12	N 588215 E 1364468	412.35	-	409.02	A-10
ES-1	7+25 O/S 76' RT	-	-	386.79	END-SECTION
M-1	N 587921 E 1364062	414.00	406.70	406.60	STORMCEPTOR MANHOLE
M-2	N 588021 E 1364492	417.70	406.91	406.81	MANHOLE



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

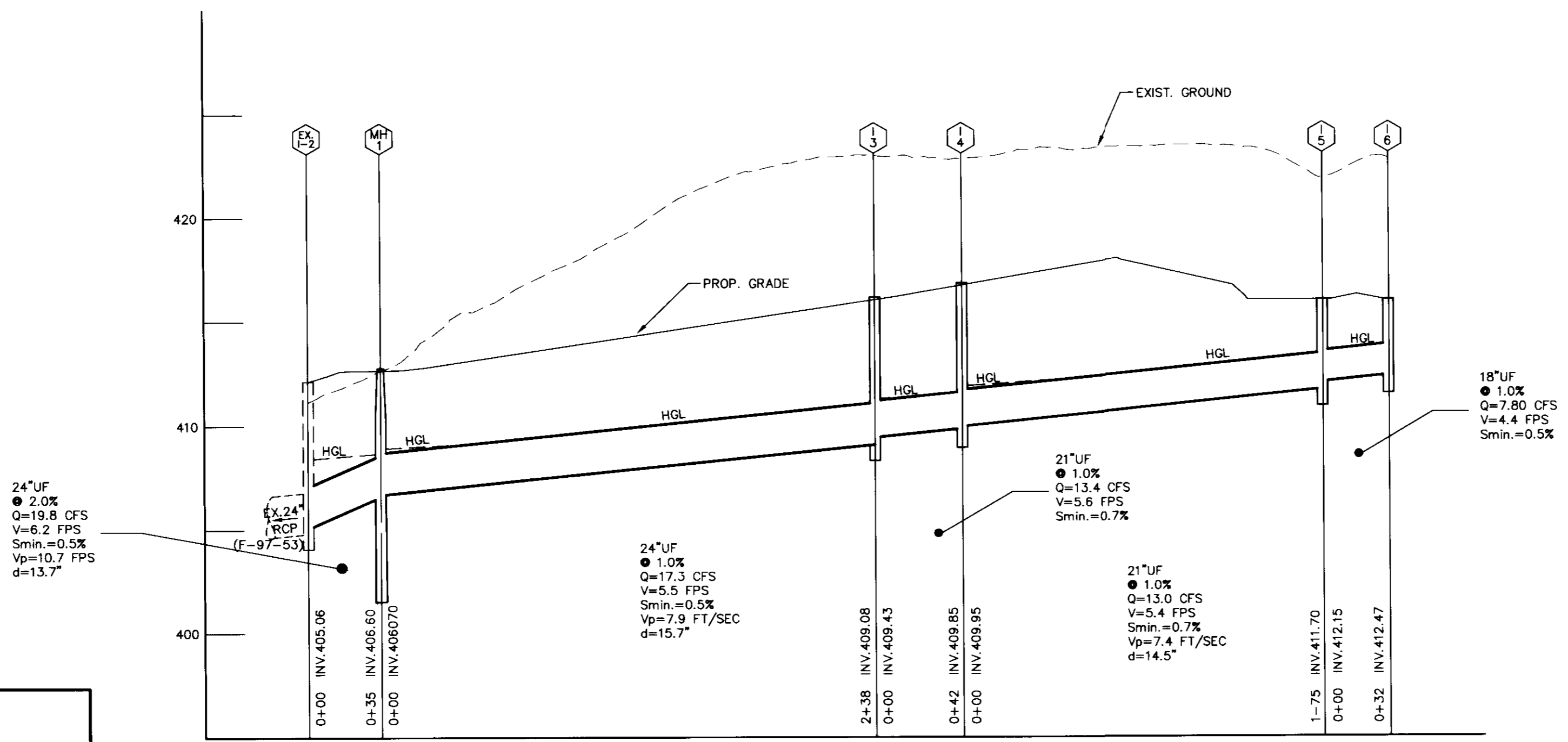
ULTRA-FLOW PIPE REFERENCE SPECIFICATIONS

MATERIAL	GALVANIZED STEEL	ALUMINIZED STEEL	ALUMINUM	ASTM A444	ASTM A819	ASTM B744
PIPE	STEEL	ALUMINUM	STEEL	ASTM A760	ASTM B745	
DESIGN	STEEL	ALUMINUM	STEEL	ASTM A796	ASTM B790	
INSTALLATION	STEEL	ALUMINUM	STEEL	ASTM A798	ASTM B788	



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

NOTE:
EXISTING GROUND SHOWN IS PRIOR TO GRADING UNDER F-97-53.



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

OWNER/DEVELOPER
M-10 RESIDENTIAL LAND DEVELOPMENT, INC.
1205 YORK ROAD, PENT HOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400
ATTN: LOUIS MANGIONE

DEVELOPER'S CERTIFICATE
I 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 INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Louis Mangione 5/1/97
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE DESIGN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT I HAVE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

John R. Robertson 4/29/97
SIGNATURE OF ENGINEER DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl L. Simmons 05-07-97
USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

John R. Robertson 5/1/97
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Michael P. Hamilton 5/1/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cathy Hamilton 5/2/02
SUPERVISOR, DIVISION OF LAND DEVELOPMENT DATE

James A. Miller 5/2/97
DIRECTOR DATE

date	DEC 98
project	96011
illustration	JIS
scope	MMP
approval	AS SHOWN JBM

description	CORRECTION STORM DRAIN PROF. 1-7 TO 1-12
revisions	2-2-99
etc.	

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
EXECUTIVE CENTER PARCEL E
HOWARD COUNTY
2ND ELECTION DISTRICT
STORM DRAIN PROFILES

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5079 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0286 Fax (301) 621-5521 Wash. (410) 987-0288 Fax

HOWARD SOIL CONSERVATION DISTRICT

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.).
- ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 1000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS./1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE 1.4 LBS./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 (.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROJECT SITE BY: OPTION (1) - 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE SOO. OPTION (3) - SEED WITH 60 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, FOR NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ.FT.)

SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (.07 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU NOVEMBER 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WEED FREE SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GAL PER ACRE (5 GAL/1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

OWNER/DEVELOPER

M-10 RESIDENTIAL LAND DEVELOPMENT, INC.
1205 YORK ROAD, PENT HOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400
ATTN: LOUIS MANGIONE

DEVELOPERS CERTIFICATE

I 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 INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Louis Mangione 5/16/97
SIGNATURE OF DEVELOPER DATE
Louis Mangione
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE

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 PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATURAL RESOURCE CONSERVATION SERVICE.

John R. Polenta 5/17/97
SIGNATURE OF ENGINEER DATE
John R. Polenta
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Charles K. Simmons 05-07-97
USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

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

John R. Polenta 5/17/97
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

John R. Polenta 5/16/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Charles Hamilton 5/16/97
DIVISION OF LAND DEVELOPMENT DATE

John R. Polenta 5/20/97
DIRECTOR DATE

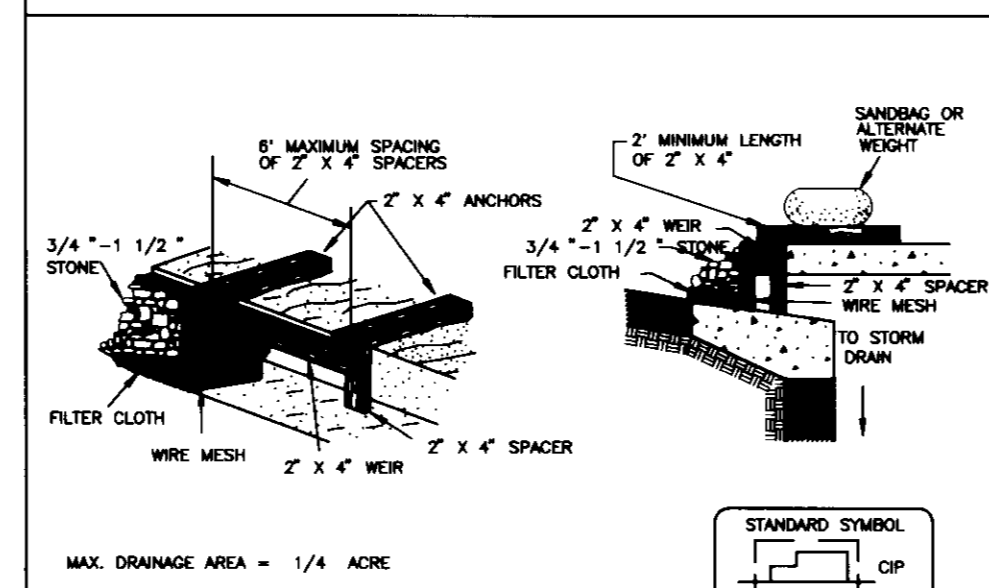
STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR 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 1981 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC.51), SOO (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE 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 PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
TOTAL AREA OF SITE: 6.99 ACRES
AREA DISTURBED: 6.5 ACRES
AREA TO BE ROOFED OR PAVED: 4.9 ACRES
AREA TO BE VEGETATIVELY STABILIZED: 1.6 ACRES
TOTAL CUT: 8,000 CU. YDS.
TOTAL FILL: 5,000 CU. YDS.
TOTAL WASTE/BORROW AREA LOCATION: -
THESE QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN QUANTITY MEASUREMENTS.
- 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 CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT
- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES, WITH MOUNTABLE BERMS, AT LOCATION SHOWN. (1 DAY)
- CONSTRUCT SUPER SILT FENCE. (3 DAYS)
- BEGIN BUILDING CONSTRUCTION.
- COMPLETE FINE GRADING OF SITE TO GRADES INDICATED. (2 WEEKS)
- CONSTRUCT STORM DRAINS AND UTILITIES INCLUDING STORMCEPTOR MANHOLE AND E-1 OUTFALL. (2 WEEKS) 1-7 TO E-1 AND OUTFALL TO BE BUILT CONCURRENTLY WITH POND (F-97-53).
- CONSTRUCT CURB AND GUTTER AND PAVEMENT FOR SITE. (3 WEEKS)
- SEED AND MULCH ALL REMAINING DISTURBED AREAS. (3 DAYS)
- REMOVE ANY ACCUMULATED SEDIMENTS FROM STORMCEPTOR MANHOLE AND STORMWATER MANAGEMENT POND. (3 DAYS)
- UPON STABILIZATION OF THE SITE AND WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE REMAINING DISTURBED AREAS. (2 DAYS)

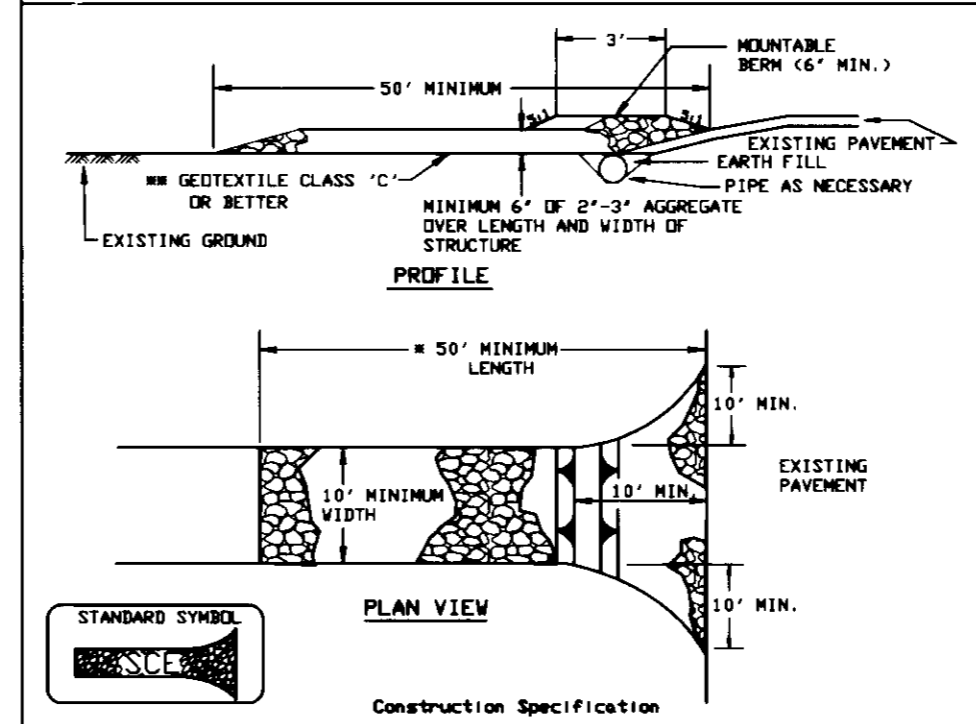
DETAIL 23C - CURB INLET PROTECTION (COG OR COS INLETS)



- Construction Specifications
- 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.
 - Place a continuous piece of Geotextile Class E of the same dimensions as the wire mesh over the wire mesh and securely attach it to the 2" x 4" weir.
 - Securely nail the 2" x 4" weir to a 6" long vertical spacer to be located between the weir and the inlet face (max. 4" apart).
 - 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 held in place by sandbags or alternate weight.
 - The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
 - 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 clean 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.
 - This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
 - Assure that storm flow does not bypass the inlet by installing a temporary earth or asphalt dike to direct the flow to the inlet.

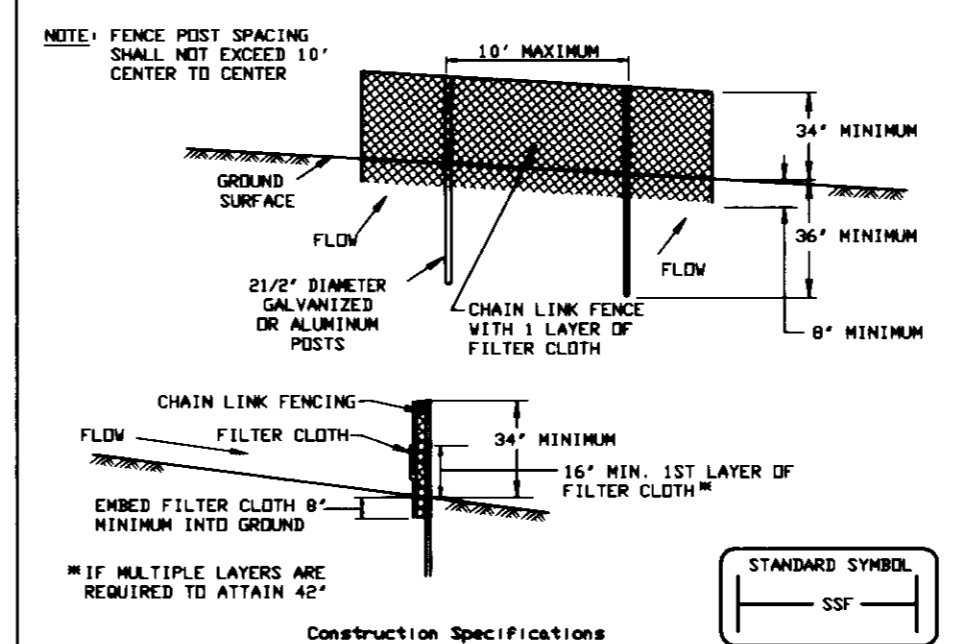
U.S. DEPARTMENT OF AGRICULTURE PAGE 16 - 58 MARYLAND DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Construction Specification
- Length - minimum of 50' (30' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2' to 3'), or reclaimed or recycled concrete equivalent shall be placed at least 6' deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6' minimum will be required.
 - Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.
- U.S. DEPARTMENT OF AGRICULTURE PAGE 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

DETAIL 33 - SUPER SILT FENCE



- Construction Specifications
- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details For Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
 - Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
 - Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
 - Filter cloth shall be embedded a minimum of 8" into the ground.
 - When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
 - Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
 - Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:
- | | | |
|----------------------|--|----------------|
| Tensile Strength | 50 lbs/in. (min.) | Test: MSMT 509 |
| Tensile Modulus | 20 lbs/in. (min.) | Test: MSMT 509 |
| Flow Rate | 0.3 gal/ft ² /minute (max.) | Test: MSMT 352 |
| Filtering Efficiency | 75% (min.) | Test: MSMT 352 |
- U.S. DEPARTMENT OF AGRICULTURE PAGE 18 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

STABILIZED CONSTRUCTION ENTRANCE

- Construction Specification
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 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
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 - Stone - crushed aggregate (2' to 3'), or reclaimed or recycled concrete equivalent shall be placed at least 6' deep over the length and width of the entrance.
 - Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6' minimum will be required.
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- U.S. DEPARTMENT OF AGRICULTURE PAGE 17 - 3A MARYLAND DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

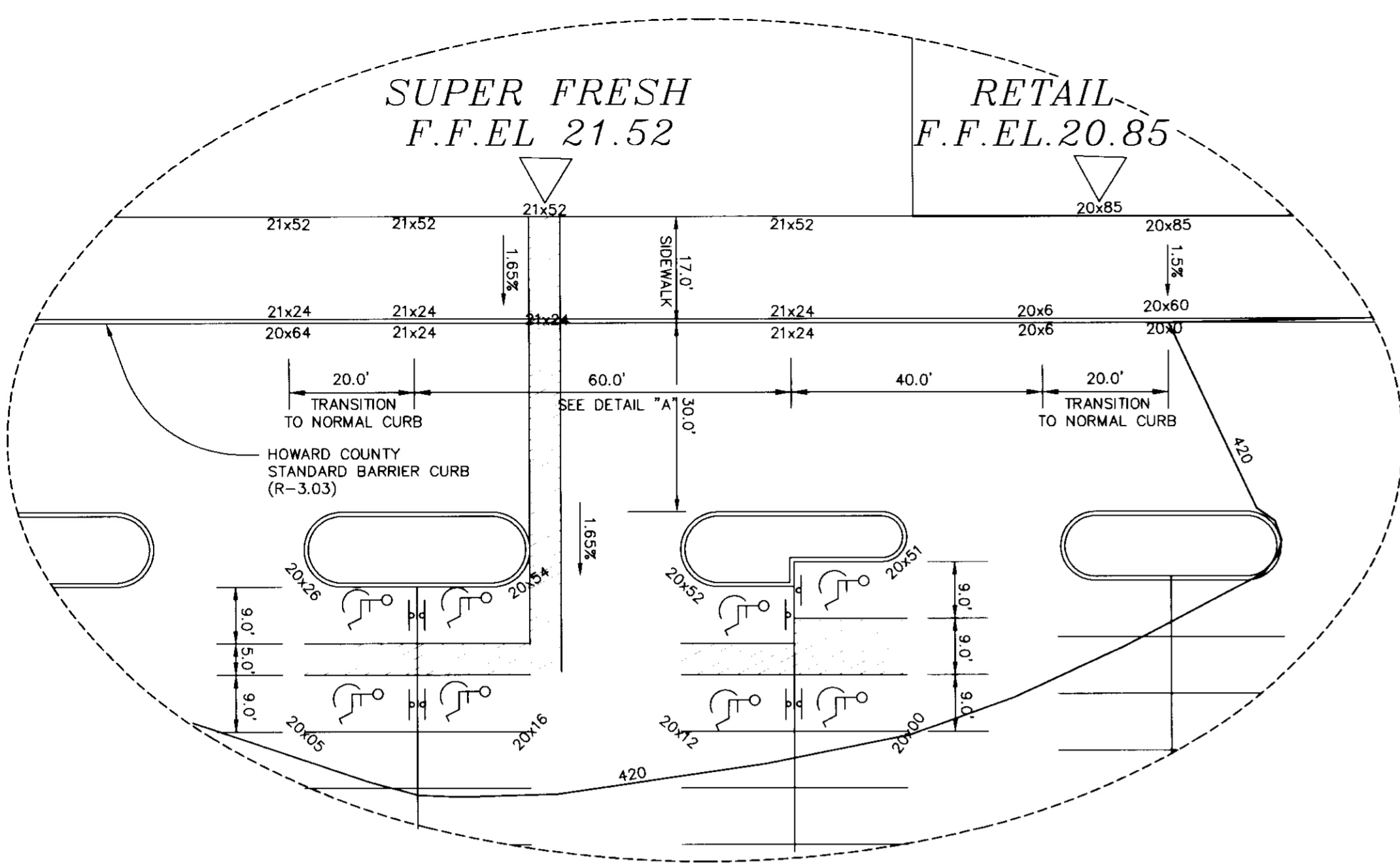
SUPER SILT FENCE

Design Criteria			
Slope	Slope Steepness	Slope Length (Maximum)	Silt Fence Length (Maximum)
0 - 10%	0 - 10:1	Unlimited	Unlimited
10 - 20%	10:1 - 5:1	200 Feet	1,500 Feet
20 - 33%	5:1 - 3:1	100 Feet	1,000 Feet
33 - 50%	3:1 - 2:1	100 Feet	500 Feet
50% +	2:1 +	50 Feet	250 Feet

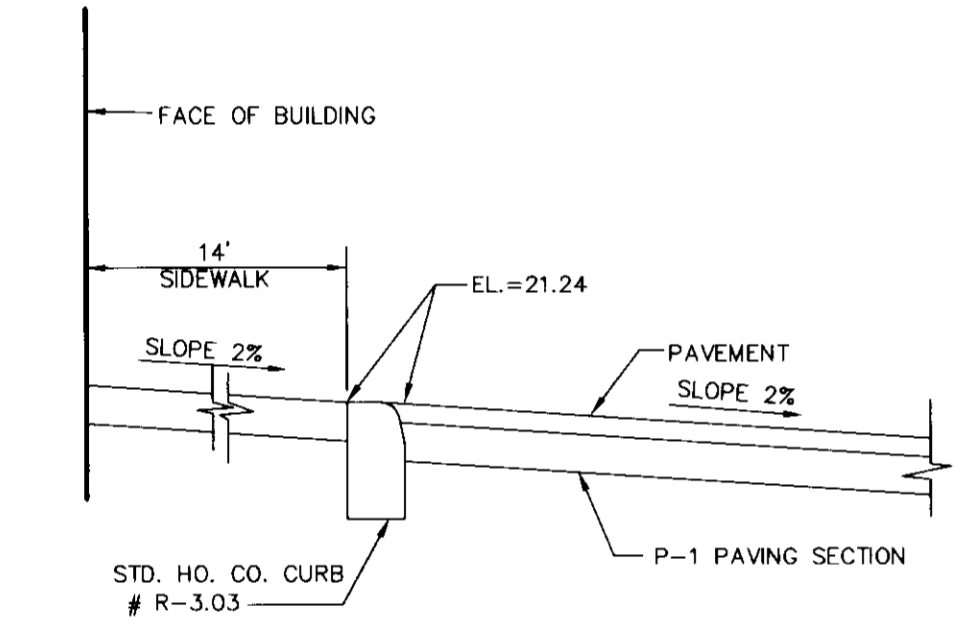
U.S. DEPARTMENT OF AGRICULTURE PAGE 18 - 3A MARYLAND DEPARTMENT OF ENVIRONMENT
SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
EXECUTIVE CENTER - PARCEL E
HOWARD COUNTY, MARYLAND
SECOND ELECTION DISTRICT
SEDIMENT CONTROL NOTES AND DETAILS

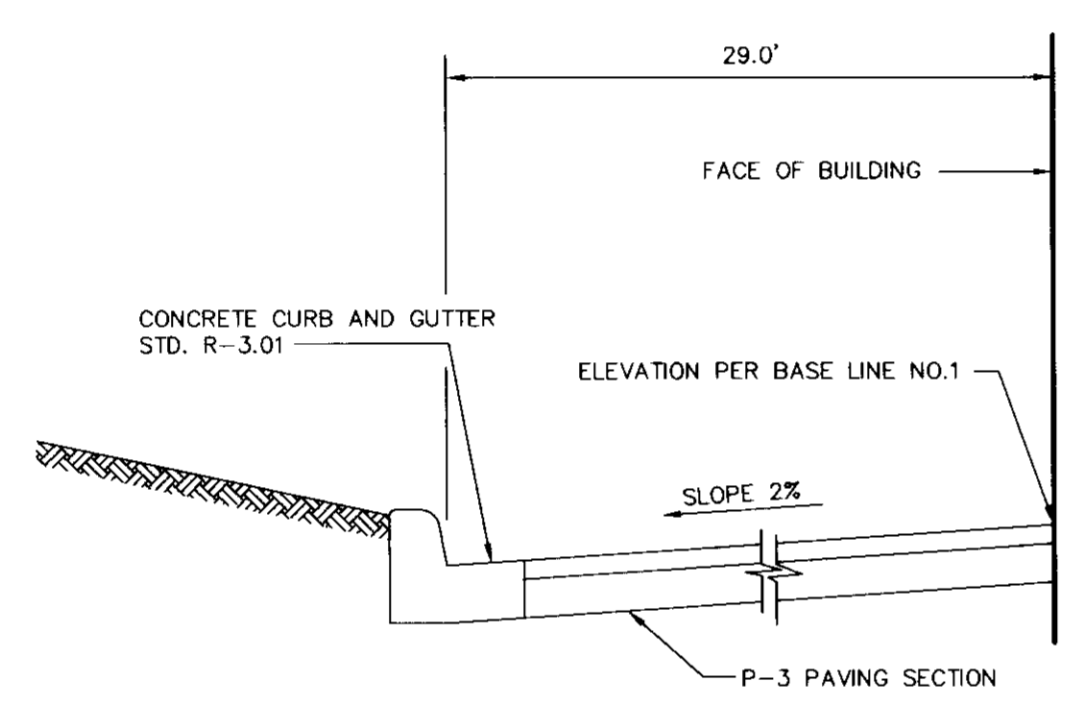
MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 387-0286 Fax (301) 821-5521 Wash. (410) 397-0288 Fax



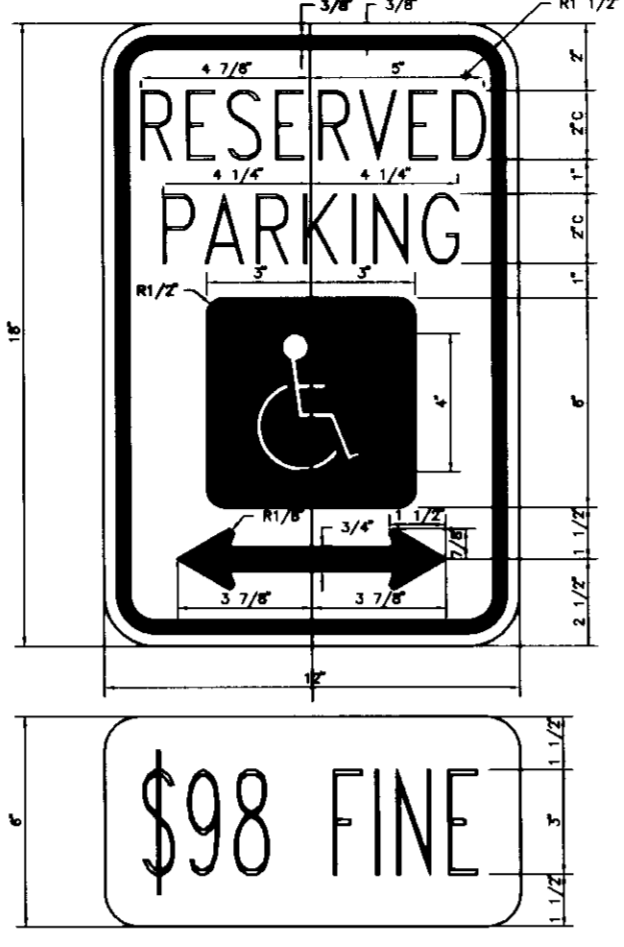
DETAIL B
SCALE: 1"=20'



DETAIL - A
(SEE SHEET 1)
N.T.S.



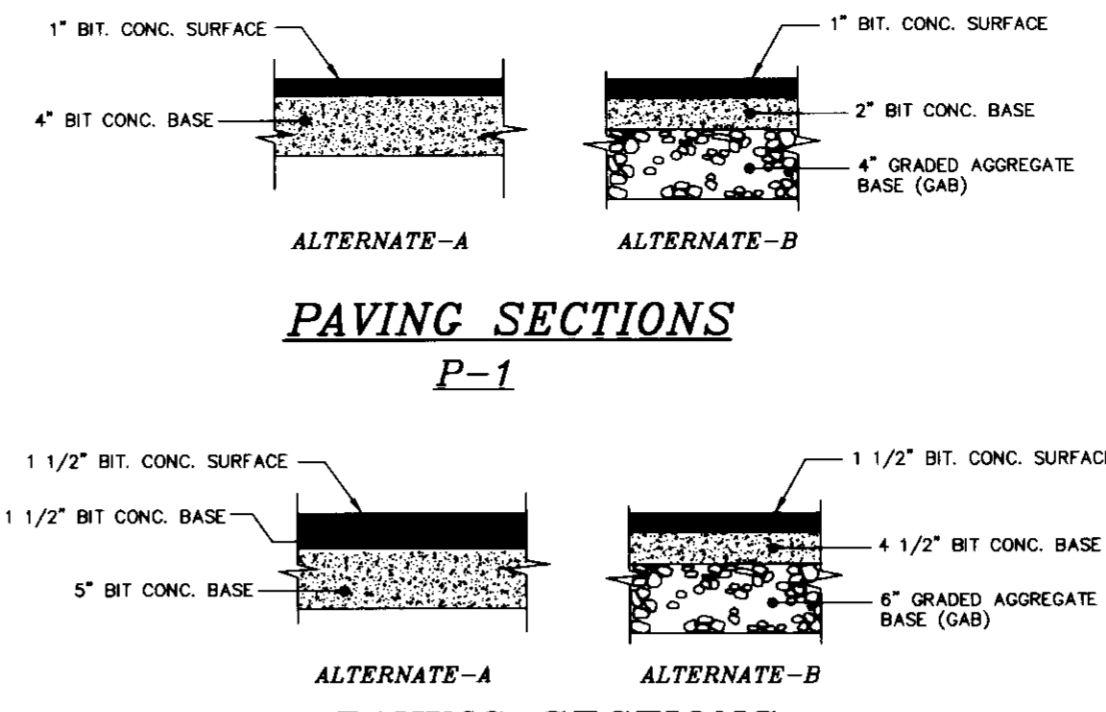
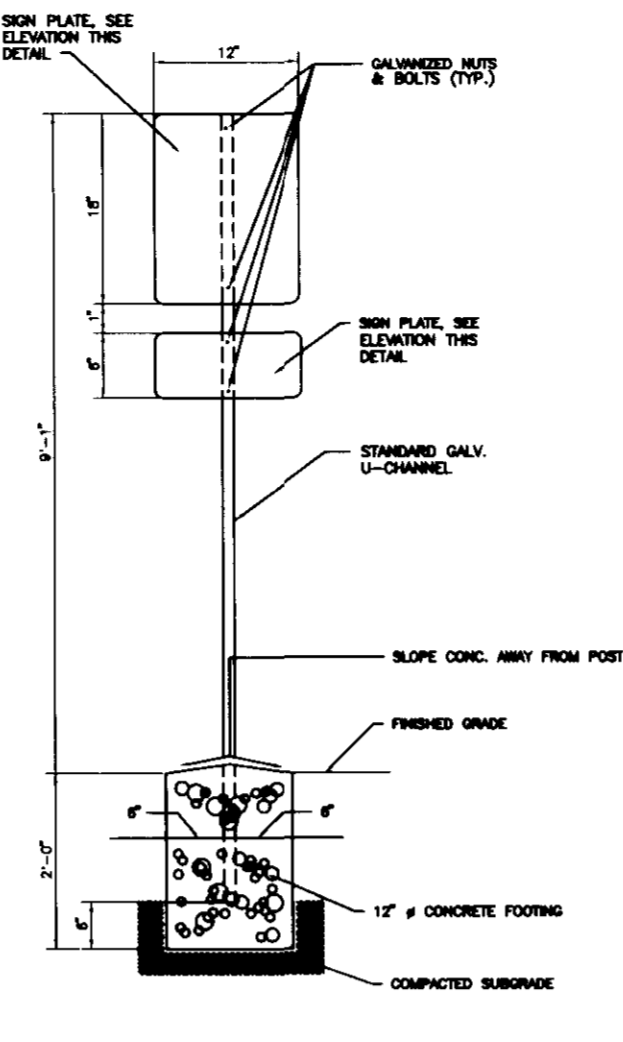
SECTION 1
(SEE SHEET 1)
N.T.S.



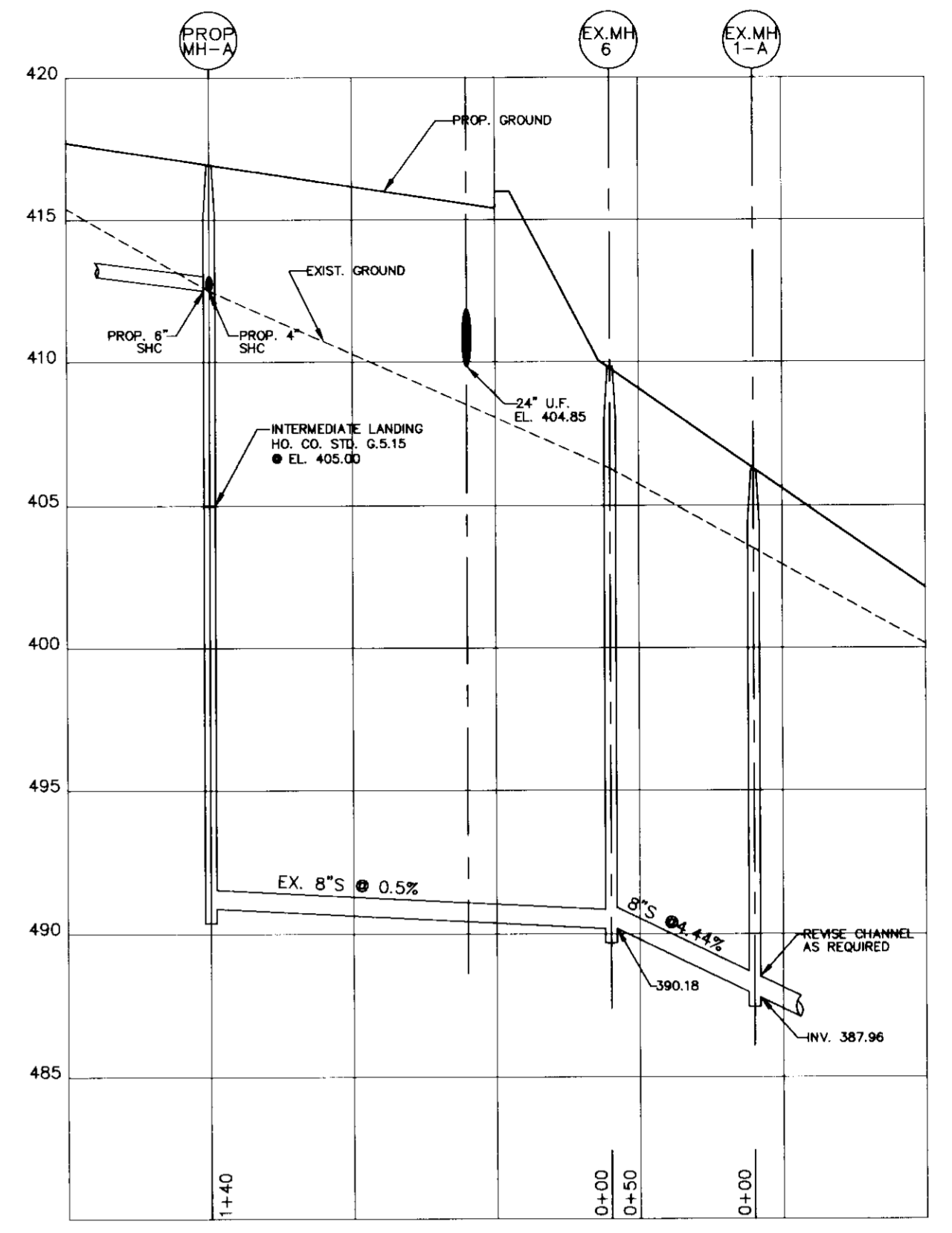
ELEVATION
COLORS:
LETTERS AND BORDER - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - WHITE

SECTION
NOTE: PROVIDE ONE SIGN AND POST PER HANDICAPPED PARKING SPACE. SEE PLAN.

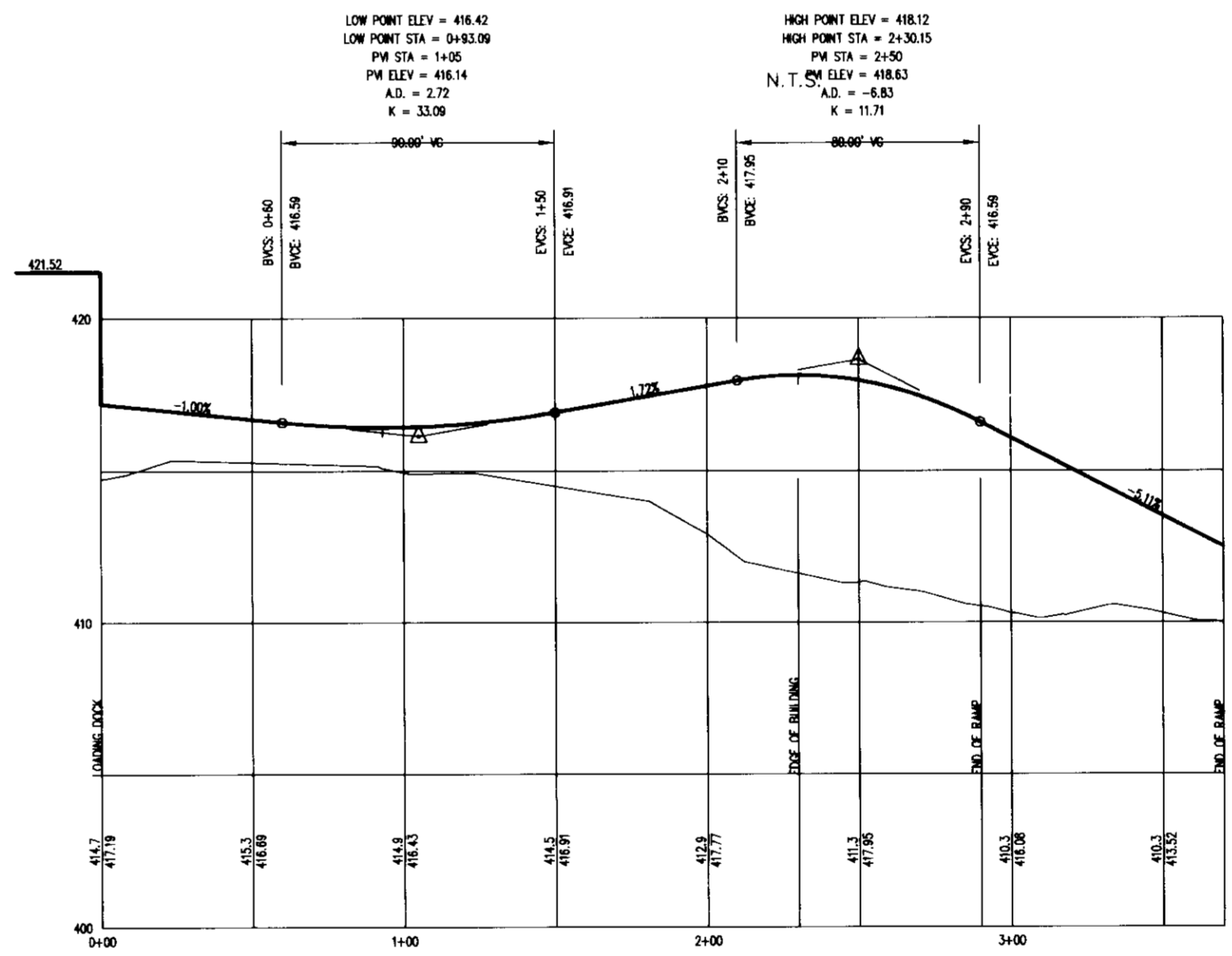
HANDICAPPED SIGN AND POST
N.T.S.



PAVING SECTIONS
P-3
N.T.S.
(LOADING DOCK AREAS ONLY)



PRIVATE 8\"/>



BASE LINE 1 PROFILE
(SEE SHEET 1)
SCALE: HOR. 1"=50'
VER. 1"=5'

Concrete Stormceptor Order Form *

Contractor Information
Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____

Owner Information
Name: Executive Center
Address: _____
City: BALDWIN CITY State: MARYLAND Zip Code: 21042
Designer Company: MILDENBERG, BOENDER & ASSOCIATES, INC.
Designer Contact: John Milberg Phone: (410) 997-0298 Fax: (410) 997-0298

Stormceptor Model
900 1200 1800 2400

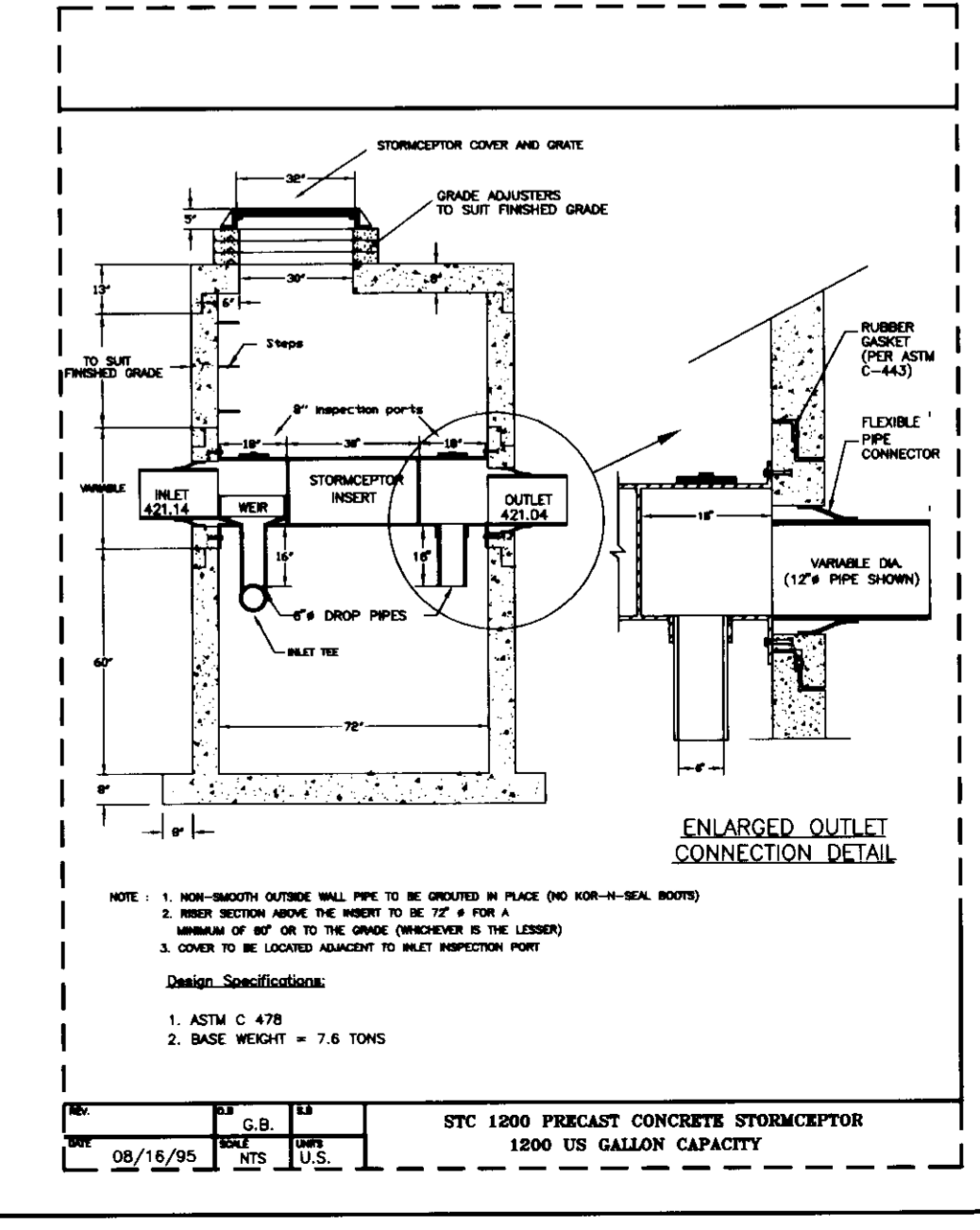
Insert Size
22" 32" 44" Custom

Manhole Number
Top Elevation (ft.) 514.00
Inlet Pipe Invert (ft.) 507.00
Outlet Pipe Invert (ft.) 505.00
Pipe Type: U.F.
Pipe Inside Diameter (in.) 24"
Pipe Outside Diameter (in.) 30" (30 1/2")

Project Name: EXECUTIVE CENTER
Approximate time until required delivery (weeks): _____
Delivery Address: _____
City: BALDWIN CITY **State:** MARYLAND **Zip Code:** 21042
Designer Company: MILDENBERG, BOENDER & ASSOCIATES, INC.
Designer Contact: John Milberg **Phone:** (410) 997-0298 **Fax:** (410) 997-0298

For Technical Assistance and Stormceptor Order Information
Please Call Stormceptor Corporation at (301) 762-8361 or toll free at 1-(800)-762-4703

* TO BE INCLUDED ON SWM PLAN BY DESIGNER



OPERATION AND MAINTENANCE SCHEDULE FOR STORMCEPTOR WATER QUALITY DEVICE

1. STORMCEPTOR WATER QUALITY STRUCTURES WILL REQUIRE PERIODIC INSPECTION AND CLEANING TO MAINTAIN OPERATION AND FUNCTION. OWNERS WILL HAVE THE STORMCEPTOR UNIT INSPECTED YEARLY OR AS REQUIRED BY HOWARD COUNTY. UTILIZING THE STORMCEPTOR INSPECTION/MONITORING FORM. INSPECTIONS CAN BE DONE BY USING A CLEAR FLEXIGLASS TUBE ("SLUDGE JUDGE") TO EXTRACT A WATER COLUMN SAMPLE. WHEN SEDIMENT DEPTHS EXCEED THE SPECIFIED LEVEL (TABLE 6 OF TECHNICAL MANUAL) THEN CLEANING OF THE UNIT IS REQUIRED.
2. STORMCEPTOR WATER QUALITY STRUCTURES MUST BE CHECKED AND CLEANED IMMEDIATELY AFTER PETROLEUM SPILLS. CONTACT APPROPRIATE REGULATORY AGENCIES.
3. MAINTENANCE OF STORMCEPTOR UNITS SHOULD BE DONE 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.
4. INLET AND OUTLET PIPES MUST BE CHECKED FOR ANY OBSTRUCTIONS AND IF ANY OBSTRUCTIONS ARE FOUND THEY MUST BE REMOVED. STRUCTURAL PARTS OF THE STORMCEPTOR WILL BE REPAIRED AS NEEDED.
5. OWNER SHALL RETAIN AND MAKE STORMCEPTOR INSPECTION/MONITORING FORMS AVAILABLE TO HOWARD COUNTY OFFICIALS UPON THEIR REQUEST.

DEVELOPER'S CERTIFICATE
I 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 INSPECTION BY THE NATURAL RESOURCE CONSERVATION SERVICE.

Louis Mangione 5/1/97
SIGNATURE OF DEVELOPER
PRINTED NAME OF DEVELOPER

ENGINEER'S CERTIFICATE
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 NATURAL RESOURCE CONSERVATION SERVICE.

John Milberg 5/1/97
SIGNATURE OF ENGINEER
PRINTED NAME OF ENGINEER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl K. Simmons 05-07-97
USDA - NATURAL RESOURCE CONSERVATION SERVICE DATE

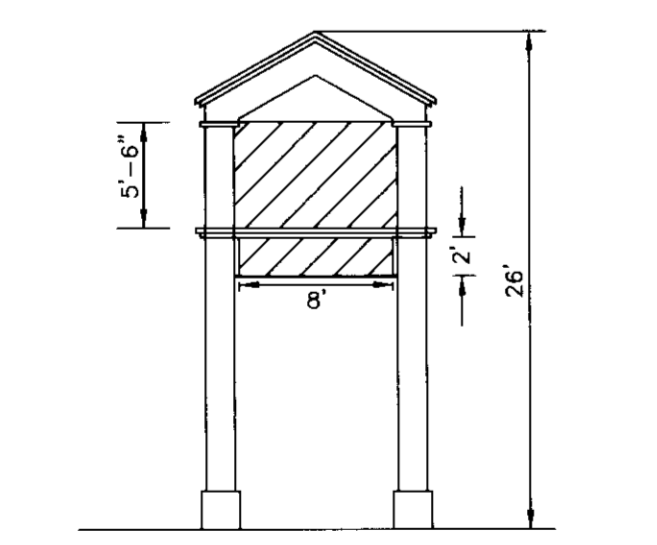
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Stewart 5/1/97
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
John R. Stewart 5/8/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

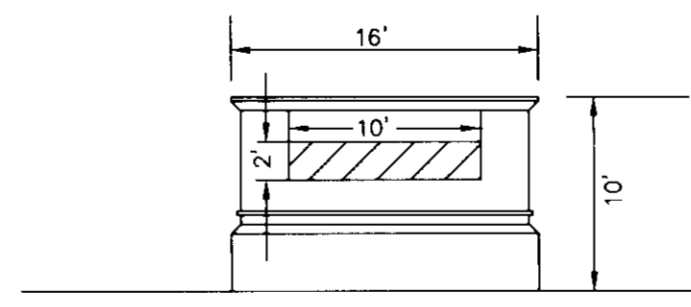
Candy Hamilton 5/16/97
DATE

John R. Stewart 5/20/97
DIRECTOR DATE



SIGN NO. 1
REPRESENTS SIGN AREA, MAX. 60 S.F.

SIGNS ARE SHOWN TO INDICATE SIZE AND LOCATION ONLY.



SIGN NO. 2
REPRESENTS SIGN AREA, MAX. 20 S.F.

SIGNS ARE SHOWN TO INDICATE SIZE AND LOCATION ONLY.

OWNER/DEVELOPER
M-10 RESIDENTIAL LAND DEVELOPMENT, INC.
1205 YORK ROAD, PENT HOUSE
LUTHERVILLE, MARYLAND 21093
(410) 825-8400
ATTN: LOUIS MANGIONE

TAX MAP 24, BLOCK 6, PARCEL 47 & P/O PARCEL 848
EXECUTIVE CENTER PARCEL E
HOWARD COUNTY
2ND ELECTION DISTRICT
MISCELLANEOUS DETAILS

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5092 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland, 21042
(410) 997-0298 Balt. (301) 821-5551 Wash. (410) 997-0298 Fax.

Project: 98011
Date: DEC 96
Illustration: MMP
Scale: MMP
Approval: AS SHOWN JBM

7 OF 7
SDP-97-39