SITE DATA

SITE ZONING		M-1	
GROSS SITE ACREAGE		8.28 AC.	360,977 S.F.
HEIGHT AND USE REQUIREMENTS		REQUIRED	PROVIDED
1.	STRUCTURE & USE SETBACK FROM EXTERNAL PUBLIC STREET R.O.W.	50'	50'
2.	STRUCTURE AND USE SETBACK FROM INTERNAL PUBLIC STREET R.O.W.	50'	50'
3.	PARKING AND FENCE SETBACK	10'	10'
4.	BUILDING HEIGHT MAXIMUM	50'	30'
BUILDING USE BREAKDOWN			
1.	OFFICE AREA		4,400 S.F.
2.	WAREHOUSE AREA		110,708 S.F.
TOTAL BUILDING COVERAGE			115,108 S.F. 31.88%
TOTAL OFFICE AREA (4,400 S.F.)			
	NUMBER OF EMPLOYEES @ (1 EMP./200 S.F.)	22 EMPLOYEES	
	NUMBER OF PARKING SPACES @ (7 SPACES/10 EMP.)	16 SPACES	20 SPACES
	WAREHOUSE AREA (110,705 S.F.)		
	NUMBER OF EMPLOYEES @ (1 EMP./1,000 S.F.)	111 EMPLOYEES	
	NUMBER OF PARKING SPACES @ (1 SPACE/2 EMP.)	56 SPACES	66 SPACES
TOTAL PARKING SPACES OFFICE & WAREHOUSE		72 SPACES	92 SPACES
LANDSCAPED PARKING ISLANDS			
	AREA OF PARKING LOT (85,355 S.F.)		
	LANDSCAPED ISLANDS	(4,277.76 S.F.) 5%	(7,589 S.F.) 8.8%

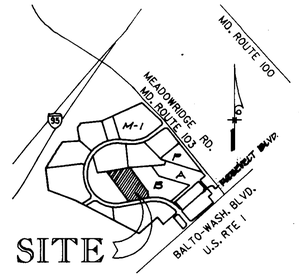
NOTE: THE MAXIMUM AMOUNT OF EMPLOYEES ANTICIPATED IS TO BE 35, WITH NO MORE THAN 10 VISITORS AT ANY ONE TIME. MOORE BUSINESS FORMS RESERVES THE RIGHT TO USE ALL 92 SPACES IF EMPLOYMENT INCREASES.

* PARKING REQUIREMENTS SAME AS APPROVED SDP 89 - 69 MBP PARCELS A & B AND SDP 90-143 PARCEL M-1.

STORMWATER MANAGEMENT IS PROVIDED OFF SITE IN THE REGIONAL BASIN ON PARCEL 'F' SEE RECORD PLAT 5046

MEADOWRIDGE BUSINESS PARK
PARCEL - C
SITE DEVELOPMENT PLAN
MOORE BUSINESS FORMS

SHEET INDEX	
SHEET 1	SITE DEVELOPMENT PLAN
SHEET 2	HORIZONTAL LAYOUT PLAN
SHEET 3	GRADING & PAVING PLAN
SHEET 4	HANDICAPPED & BUILDING DETAILS
SHEET 5	SITE DETAILS
SHEET 6	PLANTING PLAN
SHEET 7	PLANTING DETAILS
SHEET 8	SEDIMENT CONTROL PLAN
SHEET 9	SEDIMENT CONTROL DETAILS
SHEET 10	SEDIMENT CONTROL DETAILS
SHEET 11	UTILITY PROFILES
SHEET 12	UTILITY PROFILES
SHEET 13	DRAINAGE AREA MAP



VICINITY MAP
SCALE: 1"=2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 6-19-91

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6/13/91
CHIEF, BUREAU OF ENGINEERING Nicholas H. Anderson, Calvin 3/22/91 — DATE 5/14/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6/26/91
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 6/27/91

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer — Date

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U.S. Soil Conservation Service — Date

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Howard Soil Conservation Service — Date

S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
VP-85-46 F-92-031
SP-89-14 S-88-90
SDP-91-54

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART		SUBDIVISION NAME		SECT/AREA		LOT/PARCEL
PARCEL	STREET ADDRESS	MEADOWRIDGE BUSINESS PARK		NA		PARCEL - C
C	6695 BUSINESS PARKWAY	PLAT NO. OR L/F 10241-47	BLOCK NO. 22,4	ZONE M-1	TAX/ZONE MAP 37,43	ELECT. DIST. 1st	CENSUS TR. 6012
		WATER CODE 801		SEWER CODE 2153000			

STATE OF MARYLAND — ROBERT HAROLD MARKS — LIC. NO. 11651 — REGISTERED PROFESSIONAL ENGINEER

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY

SITE DEVELOPMENT PLAN
PARCEL C
MEADOWRIDGE BUSINESS PARK
ZONE M-1
1st ELECTION DISTRICT
HOWARD CO. MD.
TAX / ZONE MAP 37

OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

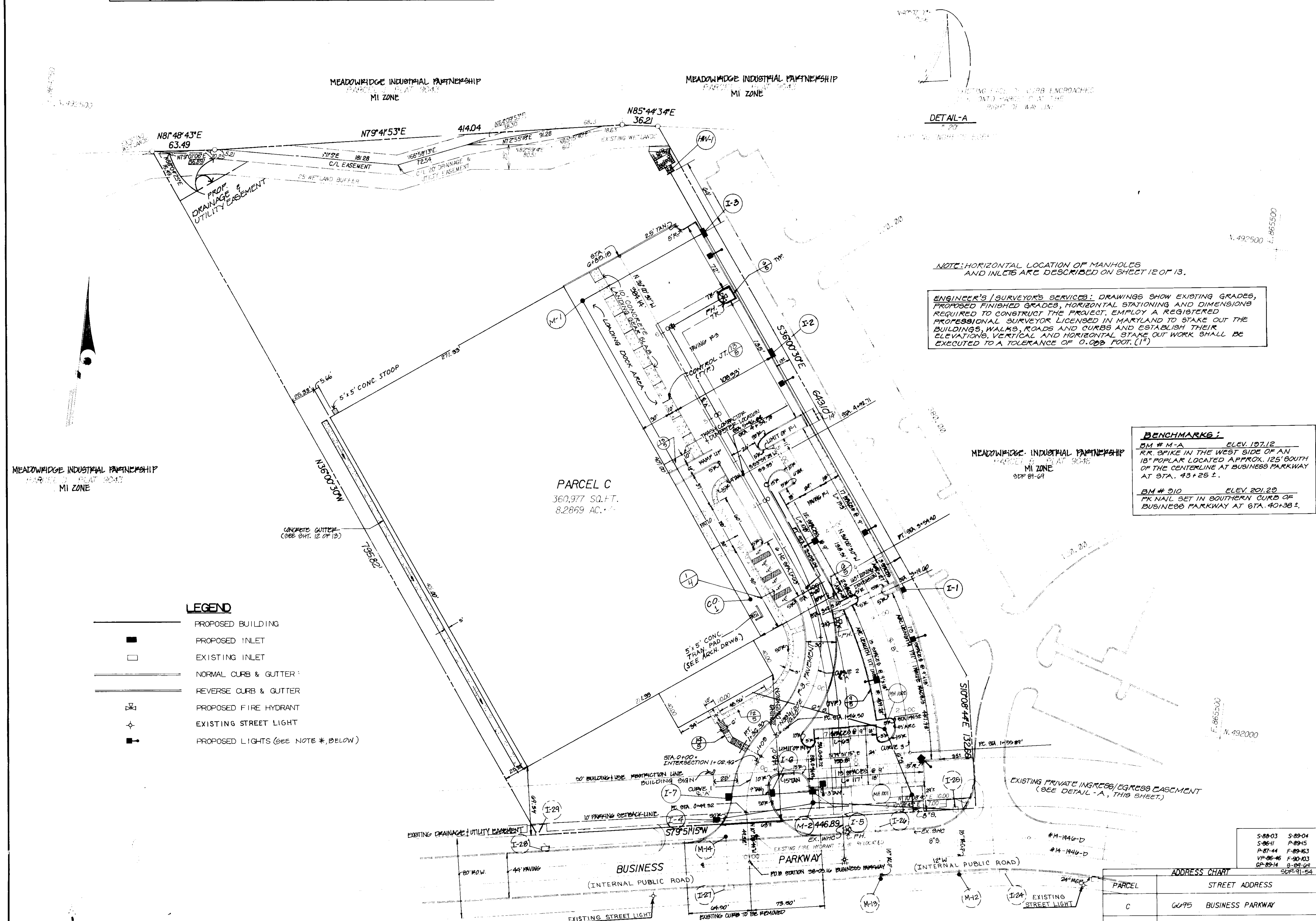
Date 10/90
Scale ——
Drawn K.R.M.
Job 7739
Sheet 1
Of 13 Sheets

AS-BUILT SDP-91-54

WHEELING REPRODUCTIONS 523233

CURVE DATA

CURVE	RADIUS	ARC	DELTA	TANGENT	CHORD	CHORD LENGTH
#1	100.00	86.98	49 50 06	46.46	N 14 46 20 E	84.26
#2	120.00	158.54	75 41 53	93.25	N 01 50 26 E	147.26
#3	439.78	198.51	25 51 45	100.98	N 23 04 37 W	196.83



NOTE: HORIZONTAL LOCATION OF MANHOLES AND INLETS ARE DESCRIBED ON SHEET 12 OF 13.

ENGINEER'S / SURVEYOR'S SERVICES: DRAWINGS SHOW EXISTING GRADES, PROPOSED FINISHED GRADES, HORIZONTAL STATIONING AND DIMENSIONS REQUIRED TO CONSTRUCT THE PROJECT. EMPLOY A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN MARYLAND TO STAKE OUT THE BUILDINGS, WALKS, ROADS AND CURBS AND ESTABLISH THEIR ELEVATIONS. VERTICAL AND HORIZONTAL STAKE OUT WORK SHALL BE EXECUTED TO A TOLERANCE OF 0.083 FOOT. (1")

BENCHMARKS:

BM # M-A ELEV. 197.12
RR. SPIKE IN THE WEST SIDE OF AN 18" POPLAR LOCATED APPROX. 125' SOUTH OF THE CENTERLINE AT BUSINESS PARKWAY AT STA. 43+25 ±.

BM # 910 ELEV. 201.29
PK NAIL SET IN SOUTHERN CURB OF BUSINESS PARKWAY AT STA. 40+38 ±.

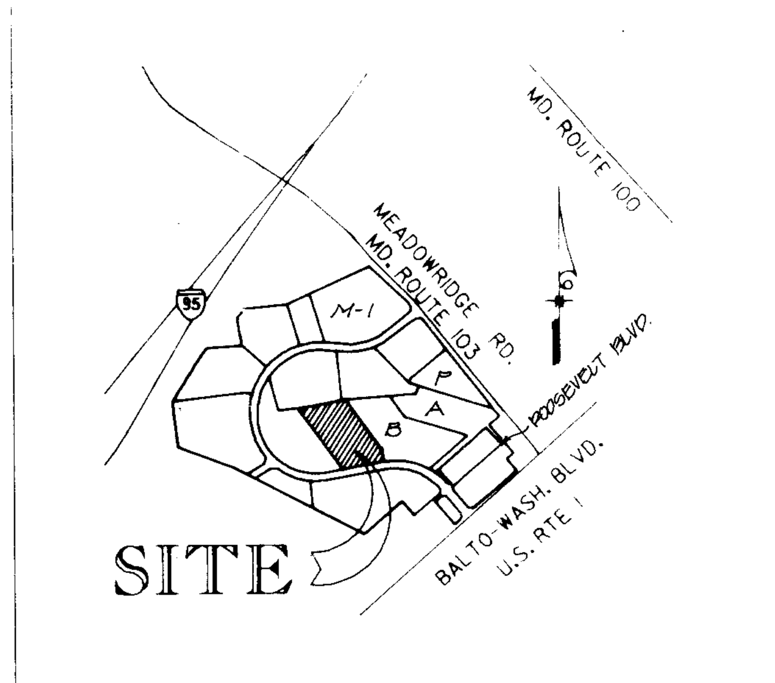
LEGEND

- PROPOSED BUILDING
- PROPOSED INLET
- EXISTING INLET
- NORMAL CURB & GUTTER
- REVERSE CURB & GUTTER
- PROPOSED FIRE HYDRANT
- EXISTING STREET LIGHT
- PROPOSED LIGHTS (SEE NOTE *, BELOW)

NOTES:
THE PARKING SPACES PROVIDED ON THIS HORIZONTAL LAYOUT PLAN ARE THE MIN. REQUIRED FOR BULK STORAGE WAREHOUSE USE ONLY AND ANY CONVERSION OF THE USE IN THE FUTURE IS SUBJECT TO THE PARKING REQUIREMENTS OF SECTION 127 OF THE HOWARD COUNTY ZONING REGULATIONS.

* THE EXTERIOR LIGHTING SHALL BE DIRECTED/RELFECTED AWAY FROM ADJACENT PUBLIC ROAD AND RESIDENTIAL AREAS. FOR LIGHTING LOCATIONS, DETAILS & CIRCUITRY, SEE ELECTRICAL DWGS.

MEADOWRIDGE INDUSTRIAL PARTNERSHIP
PARCEL E PLAT 9047
MI ZONE



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 6-19-91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6.13.91
CHIEF, BUREAU OF ENGINEERING — 3/22/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — 6/26/91 DATE
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — 6/25/91 DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

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Signature of Developer — Date

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Signature of Engineer — Date

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U.S. Soil Conservation Service — Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation Service — Date

S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
VP-86-46 F-90-103
GP-89-14 S-89-69

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART — SDP-91-54

PARCEL	STREET ADDRESS
C	6695 BUSINESS PARKWAY

SUBDIVISION NAME			SECT./AREA		LOT/PARCEL
MEADOWRIDGE BUSINESS PARK			NA		PARCEL
PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
9041-47	22,4	M-1	37,43	1st	6012
WATER CODE			SEWER CODE		
B01			2153000		

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

REVISIONS	BY

HORIZONTAL LAYOUT PLAN
PARCEL C
MEADOWRIDGE BUSINESS PARK
ZONE M-1 — HOWARD CO., MD.
1st ELECTION DISTRICT — TAX / ZONE MAP 37

OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 10/90
Scale 1" = 50'
Drawn J.L.G.
Job 7739
Sheet 2
Of 13 Sheets

SDP-91-54 B-1181-X

AS-BUILT CERTIFICATION

J. Ruck for
JAYKANT 'D PAREKH # 19148 — 3.3.93 DATE

DETAIL A

NOTE:
ALL SPOT ELEVATIONS SHOWN IN AREAS OF PARKING, DRIVEWAYS AND SERVICE BAYS ARE TOP OF CURB UNLESS NOTED OTHERWISE. SPOT ELEVATIONS SHOWN IN AREAS NOT ASSOCIATED WITH CURBED DRIVEWAYS, PARKING BAYS AND SERVICE BAYS, REPRESENT THE FINISHED ELEVATION OF THE DESIGNATED SURFACE MATERIAL.

NOTE:
SEE SHEET NO. 8 OF 13 FOR SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION AND FINAL REMOVAL OF ALL MEASURES.

PARCEL C
360,977 SQ.FT.
8.2869 AC.±

PROP. WAREHOUSE
FF ELEV. 210.25
OFFICE
BUSINESS PARKWAY (INTERNAL PUBLIC ROAD)
EXISTING PRIVATE INGRESS/EGRESS EASEMENT (SEE DETAIL-A, ABOVE)
PROP. DRAINAGE & UTILITY EASEMENT
EXISTING DRAINAGE & UTILITY EASEMENT PLAT 9046
WETLAND / C/L EASEMENT
25' WETLAND BUFFER
PARCEL B PLAT 9043
PARCEL D PLAT 9046
STONE APRON
CONCRETE GUTTER (SEE SHT. 12 OF 13)
CONC. STEPS & WALKWAY
5'x5' CONC. STOOP
5'x5' CONC. PAD (SEE ARCH. DWGS.)
CONCRETE DRIVE
PATIO
EXISTING FIRE HYDRANT TO BE RELOCATED
EXISTING STREET LIGHT
BUILDING SIGN (SEE ARCH. DWGS.)
140 LF CL III 15" RCP
374 LF CL III 15" RCP
643.10' CABLE CL. III 15" RCP
130 LF CL III 15" RCP
S 36°00'30" E
S 79°51'55" W
N 79°41'53" E 414.04
N 81°48'43" E 63.49
N 85°44'34" E 36.21
N 36°00'30" W 795.82
S 08°44'42" E 332.65
N.492500
E.865500

VICINITY MAP
SCALE: 1" = 2000'
MD. ROUTE 100
MEADOWRIDGE RD. MD. ROUTE 103
PROPOSED 1ST BLVD.
BALTO-WASH. BLVD. U.S. RTE 1
SITE

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER — 6/9/91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS
DIRECTOR — 6.13.91
CHIEF, BUREAU OF ENGINEERING — TB

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
PLANNING DIRECTOR — 6/24/91 DATE
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — 6/25/91 DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

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S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
VP-86-46 F-90-103
GP-89-14 S-88-68

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ADDRESS CHART		SUBDIVISION NAME		SECT./AREA		LOT/PARCEL
PARCEL	STREET ADDRESS	MEADOWRIDGE BUSINESS PARK		NA		PARCEL - C
		PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
C	6695 BUSINESS PARKWAY	9041 - 47	22,4	M-1	37,48	1st	6012
		WATER CODE		SEWER CODE	
		801		2:53000	

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY
6"W. TO 8"W.	GEO 1/93
6"S. TO 4"S.	GEO 1/93

GRADING & PAVING PLAN
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
TAX / ZONE MAP 37
ZONE M-1
1ST ELECTION DISTRICT

OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
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Ruck, Pate & Associates, Ltd.
Architecture
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Scale 1"=50'
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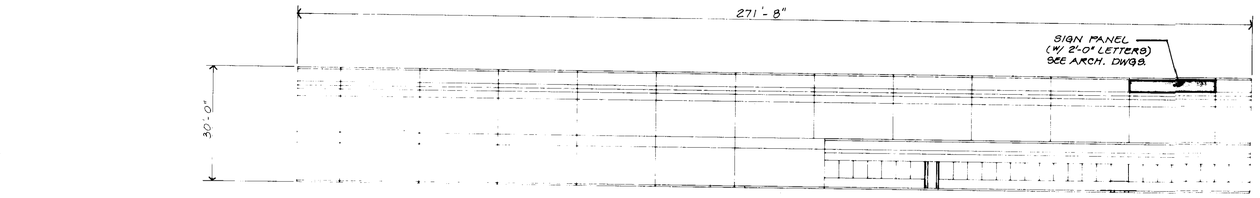
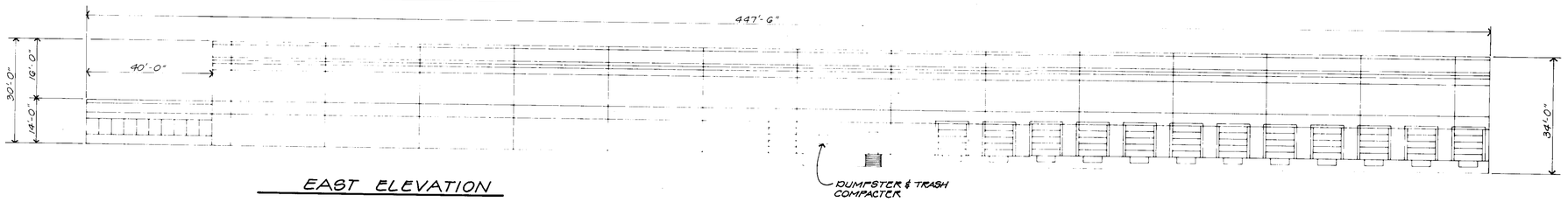
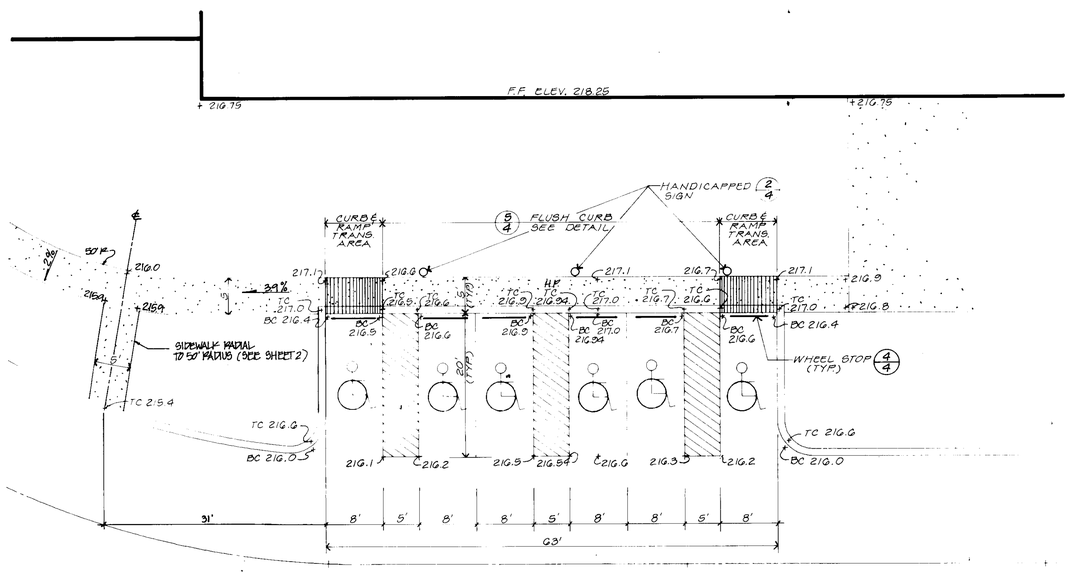
AS-BUILT SDP-91-54



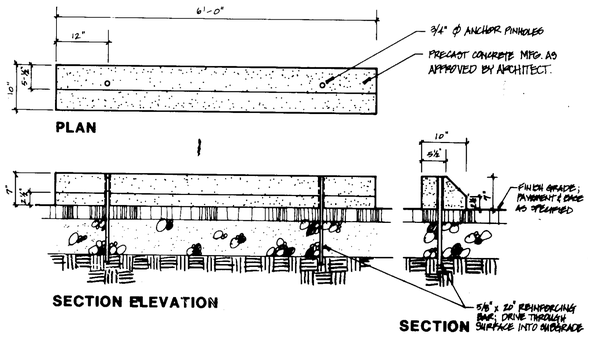
SOUTH ELEVATION



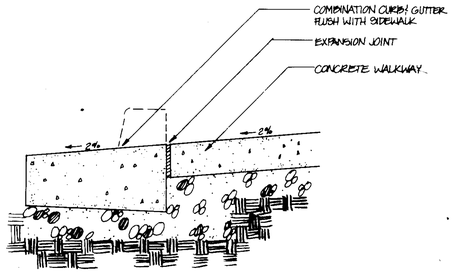
EAST ELEVATION



1/4 HANDICAPPED ACCESS
SCALE: 1"=10'



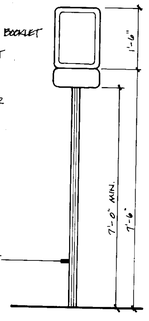
1/4 Precast Concrete Wheelstop
SCALE: 3/4" = 1'-0"



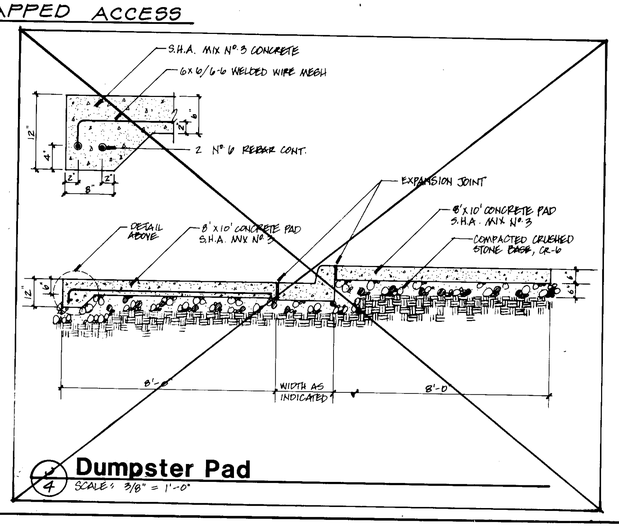
5/4 FLUSH CURB (HANDICAPPED ACCESS)
N.T.S.

REFERENCES:
STATE OF MARYLAND
STANDARD HIGHWAY SIGNS BOOKLET
P.O. BOX 717
707 NORTH CALVERT STREET
BALTIMORE, MD. 21203

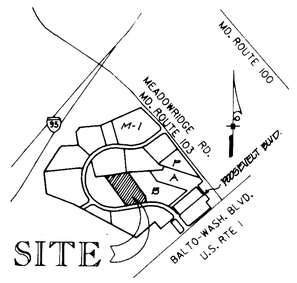
COLOR:
GREEN LEGEND AND BORDER ON REFLECTIVE WHITE BACKGROUND.



2/4 Handicapped Parking Sign HOWARD CO. STANDARD
N.T.S.



4/4 Dumpster Pad
SCALE: 3/8" = 1'-0"



VICINITY MAP
SCALE: 1"=2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 6-19-91

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — DATE 6.13.91

CHIEF, BUREAU OF ENGINEERING — DATE 3/22/91 — TPS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6/26/91

CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 6/27/91

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S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
V-P-85-95 F-90-103
GP-89-14 S-89-120
BCPF-91-64

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ADDRESS CHART

PARCEL	STREET ADDRESS	SUBDIVISION NAME			SECT./AREA		LOT/PARCEL
		MEADOWRIDGE BUSINESS PARK			NA		PARCEL - C
C	6645 BUSINESS PARKWAY	PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
		9091-97	22,4	M-1	37,43	1st	6012
		WATER CODE			SEWER CODE		
		B01			2153000		

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GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

STATE OF MARYLAND — ROBERT ARNOLD MARTINEK — No. 10... — REGISTERED PROFESSIONAL ENGINEER

SDP 91-54

REVISIONS	BY

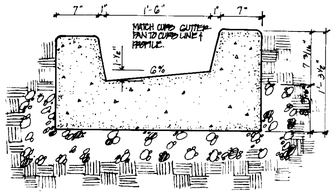
HANDICAPPED & BUILDING DETAILS
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
TAX / ZONE MAP 37
ZONE M-1
1ST ELECTION DISTRICT

OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

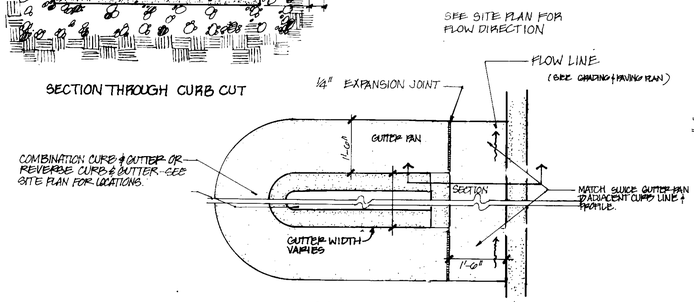
Date 10/90
Scale —
Drawn J.L.G./R.L.P.
Job 7739
Sheet 4
Of 13 Sheets

B-1151-X



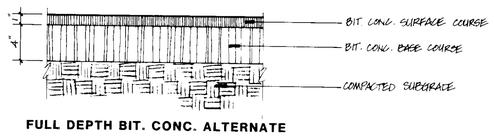
SECTION THROUGH CURB CUT

PREPARE CURB BASE IDENTICAL TO THE CURB DETAIL - COMBINATION CURB AND GUTTER.

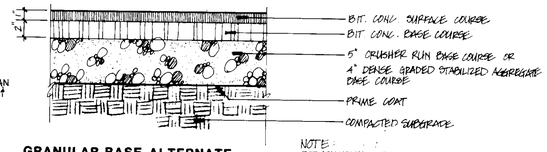


PLAN VIEW OF CURB CUT

6/5 CURBED ISLAND DRAINAGE SLUICE



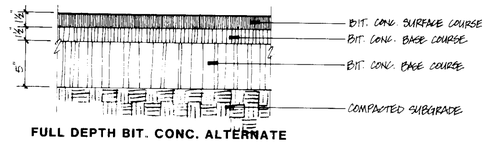
FULL DEPTH BIT. CONC. ALTERNATE



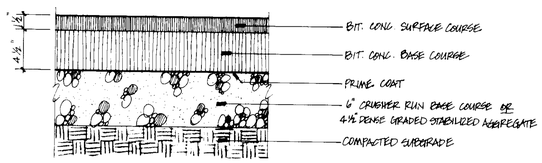
GRANULAR BASE ALTERNATE

NOTE:
BIT. CONCRETE MIXES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD SPECIFICATIONS

7/5 **Paving Sections: P-1** - HOWARD CO. DETAIL R-2.01
SCALE: 1½" = 1'-0" **PARKING AREAS**

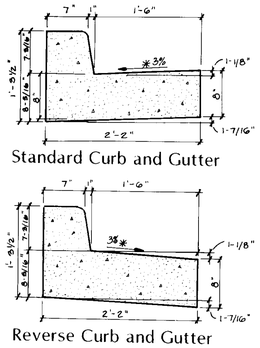


FULL DEPTH BIT. CONC. ALTERNATE



GRANULAR BASE ALTERNATE

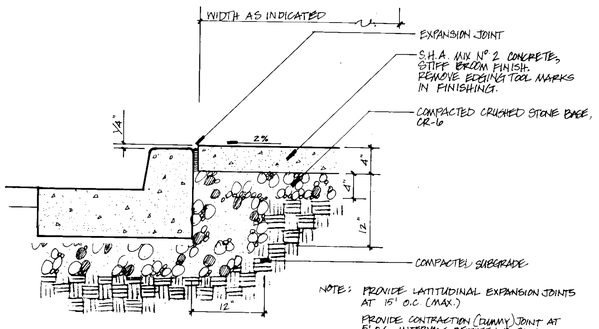
8/5 **Paving Sections: P-3** - HOWARD CO. DETAIL R-2.01
SCALE: 1½" = 1'-0" **LOADING, ACCESS DRIVES**



Standard Curb and Gutter

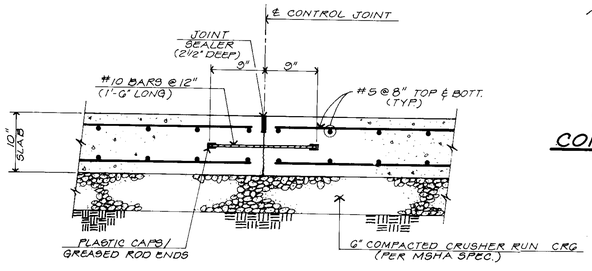
Reverse Curb and Gutter

9/5 7" Combination Curb and Gutter
No scale



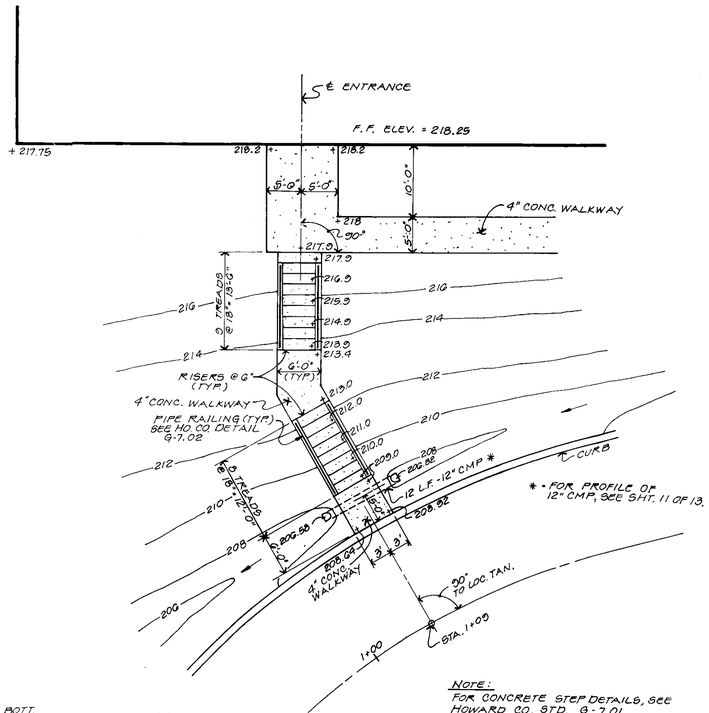
NOTE: PROVIDE LATITUDINAL EXPANSION JOINTS AT 15' O.C. (MAX.)
PROVIDE CONTRACTION (DUMMY) JOINT AT 5' O.C. INTERVALS BETWEEN EXPANSION JOINTS. SIDEWALK TO BE SCRIBED IN 5' MAX. SQUARES.

12/5 **Concrete Walkway**
SCALE: 1" = 1'-0"



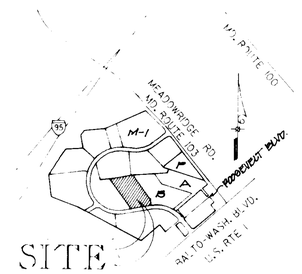
13/5 LANDING GEAR SLAB ~ CONTROL JOINT DETAIL
SCALE: 1"=1'-0"

NOTE: MAXIMUM CONTROL JOINT SPACING - 20'-0"



Note:
FOR CONCRETE STEP DETAILS, SEE HOWARD CO. STD. G-7.01

14/5 PART PLAN
CONCRETE WALKWAY & STEPS



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 6-19-91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6/13/91
CHIEF, BUREAU OF ENGINEERING — 3/22/91 TPS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

DIRECTOR — 6/26/91 DATE
CHIEF, DIV. OF COMMUNITY PLANNING AND DEVELOPMENT — 6/25/91 DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer — Date

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer — Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

U.S. Soil Conservation Service — Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation Service — Date

REVISIONS	BY

SITE DETAILS
PARCEL C
MEADOWRIDGE BUSINESS PARK
ZONE M-1 — 1st ELECTION DISTRICT
HOWARD CO. MD. — TAX / ZONE MAP 37

OWNER / DEVELOPER
MOOR-RIDGE BUSINESS PARK, LTD.
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 10/30
Scale —
Drawn JLG./RLP.
File 7739
Sheet 5
Of 13 Sheets

S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
(SHEET 4) F-87-101
S-89-14 S-88-69
SDP-91-54

MARK	STREET ADDRESS
C	6695 BUSINESS PARKWAY

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
MEADOWRIDGE BUSINESS PARK	NA	PARCEL - C

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
9041-47	22,4	M-1	37,45	1st	6012

WATER CODE	SEWER CODE
801	0153000

STATE OF MARYLAND — ROBERT HAROLD MATHENY — LIC. NO. 10... — REGISTERED PROFESSIONAL ENGINEER

ENGINEERS ARCHITECTS PLANNERS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
118 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301) 28 8-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CHEYENNE, WY EXPORT, PA FAIRFAX, VA FREEHOLD, NJ MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

APPROVED SDP 91-54

B-1181-X

DETAIL A

N85°44'34"E 362.21

N79°41'53"E 414.04

N81°48'43"E 63.49

PROV. DRAINAGE & UTILITY EASEMENT

C/L 20' DRAINAGE & UTILITY EASEMENT

TYPE I LAWN SEED

10' FROM FACE OF CURB

CONCRETE VALLEY GUTTER

PARCEL C

8' FROM PROPERTY LINE

N36°00'30"W 195.82

FF ELEV. 218.25

PARKWAY (INTERNAL PUBLIC ROAD)

BUSINESS

S79°51'59"W

CONCRETE SWALE (SEE DETAILS)

4-LIQUIDAMBAR STYRACIFLUA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

1-QUERCUS PALUSTRIS
12'-14' HT. 2.5" CAL. B&B FULL CROWN

5-LIQUIDAMBAR STYRACIFLUA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

3-QUERCUS PALUSTRIS
12'-14' HT. 2.5" CAL. B&B FULL CROWN

6 LIQUIDAMBAR STRACIFLUA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

4 MALUS FLORIBUNDA
6'-7' HT. 2'-2½" CAL. B&B

3 QUERCUS PALUSTRIS
12'-14' HT. 2.5" CAL. B&B FULL CROWN

4 LIQUIDAMBAR STYRACIFLUA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

5 LIQUIDAMBAR STYRACIFLUA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

'CORNILLA VARIA CROWN VETCH'
M.S.H.A. SEED MIX & SPEC.

5 PICEA OMORIKA
6'-7' HT. B.&B. UNSHEARED

3 QUERCUS PALUSTRIS
12'-14' HT. 2.5" CAL. B&B FULL CROWN

8 ZELKOVA SERRATA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

40 EUONYMUS ALATUS 'COMPACTUS'
24"-30" HT. B.&B. PLANTED 3' O.C.

20 JUNIPERUS CONFERTA
18"-24" HT. B&B PLANTED 3' O.C.

3 PICEA OMORIKA
6'-7' HT. B&B UNSHEARED

8 MALUS FLORIBUNDA
6'-7' HT. 2-2½" CAL. B&B

26 LIQUIDAMBAR STYRACIFLUA
12'-14' HT. 2.5" CAL. B&B FULL CROWN

7 MALUS FLORIBUNDA
6'-7' HT. 2-2½" CAL. B&B

11 QUERCUS PALUSTRIS
12'-14' HT. 2.5" CAL. B&B FULL CROWN

70 EUONYMUS ALATUS 'COMPACTUS'
24"-30" HT. B&B PLANTED 3' O.C.

375 JUNIPERUS CONFERTA
18"-24" HT. B&B PLANTED 3' O.C.

26 JUNIPERUS CONFERTA
18"-24" HT. B&B PLANTED 3' O.C.

LANDSCAPE REQUIREMENTS / MEADOWRIDGE COVENANTS

12 SHADE TREES / 1 ACRE OF DEVELOPMENT
8.2 ACRES × 12 = 99 SHADE TREES REQUIRED
50% OF REQUIRED TREES MAY BE SUBSTITUTED WITH 2 ORNAMENTALS OR EVERGREENS PER DECIDUOUS TREE.

LANDSCAPE PROVIDED

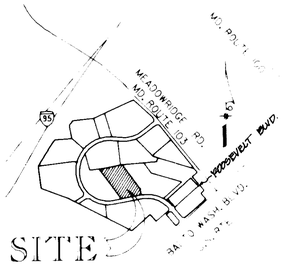
90 SHADE TREES
24 ORNAMENTAL/EVERGREEN (CREDIT .5 TREE PER EACH FLOWERING/EVERGREEN)

102 SHADE + ORNAMENTAL/ DECIDUOUS

NOTE:
ALL AREAS NOT SHOWN TO RECEIVE PLANT BEDS OR CROWN VETCH SEED MIX SHALL BE SEEDED WITH TYPE I SEED FOR GRASSED LAWNS.

STATE OF MARYLAND
DAVID LLOYD
No. 716
LANDSCAPE ARCHITECT

SITE



VICINITY MAP
SCALE: 1"=2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY DEPARTMENT OF HEALTH

COUNTY HEALTH OFFICER — DATE 6-19-91

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR — DATE 6/18/91
Elizabeth Tenderson Calia 7/22/91
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6/26/91
6/27/91
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer — Date

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District and I/we have notified the Developer that he must provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion."

Signature of Engineer — Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction soil erosion and sediment control.

U.S. Soil Conservation Service — Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation Service — Date

S-88-03	SDP-89-04		
S-86-	P-89-5		
WP-87-44	F-89-163		
WP-88-95	F-90-103		
WP-89-4			

ADDRESS CHART

PARCEL	STREET ADDRESS
6695	BUSINESS PARKWAY

BEFORE BEGINNING ANY CONSTRUCTION, CONTACT MISS UTILITY AT LEAST 48 HRS. BUT NOT MORE THAN 10 DAYS PRIOR TO EXCAVATION. (1-800-257-7777)

SUBDIVISION NAME — SECTION/PHASE — LOT/PARCEL
MEADOWRIDGE BUSINESS PARK — — PARCEL

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX ZONE	MAP	ELECT. DIST.	CENSUS TR.
9241-47	22,4	M	17,93	17	6TH	6067

WATER CODE

PLANTING PLAN

MEADOWRIDGE BUSINESS PARK

TAX MAP NO. 37 PARCEL C
1ST ELECTION DISTRICT
HOWARD COUNTY, MD.
ZONE M

REVISIONS	BY

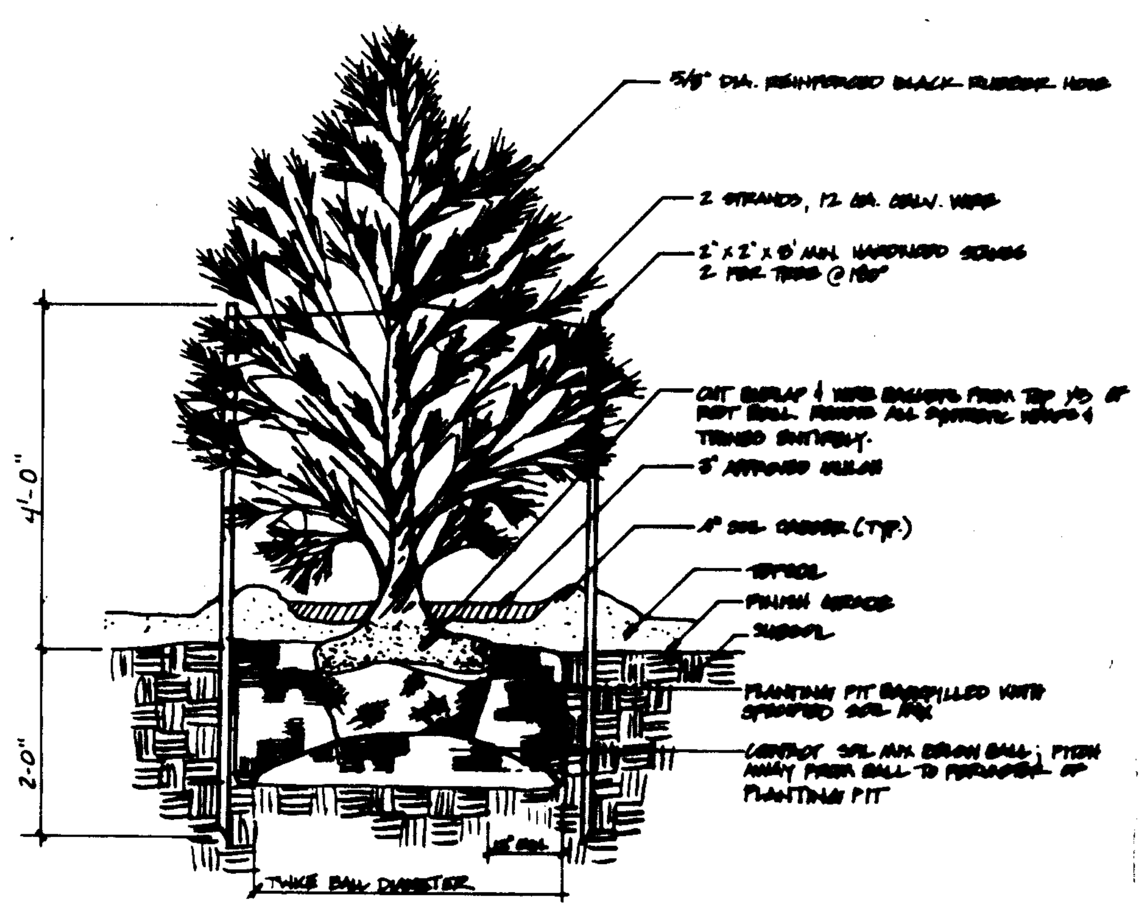
Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

JAMES R. RUCK, ASLA
ROBERT S. PATE, ASLA
225 SNIDERS ROAD, SUITE 210
PORT JEFFERSON, NEW YORK 11777
PH. (516) 928-3000

10/30
1" = 50'
J.L.G.
7739
6
13

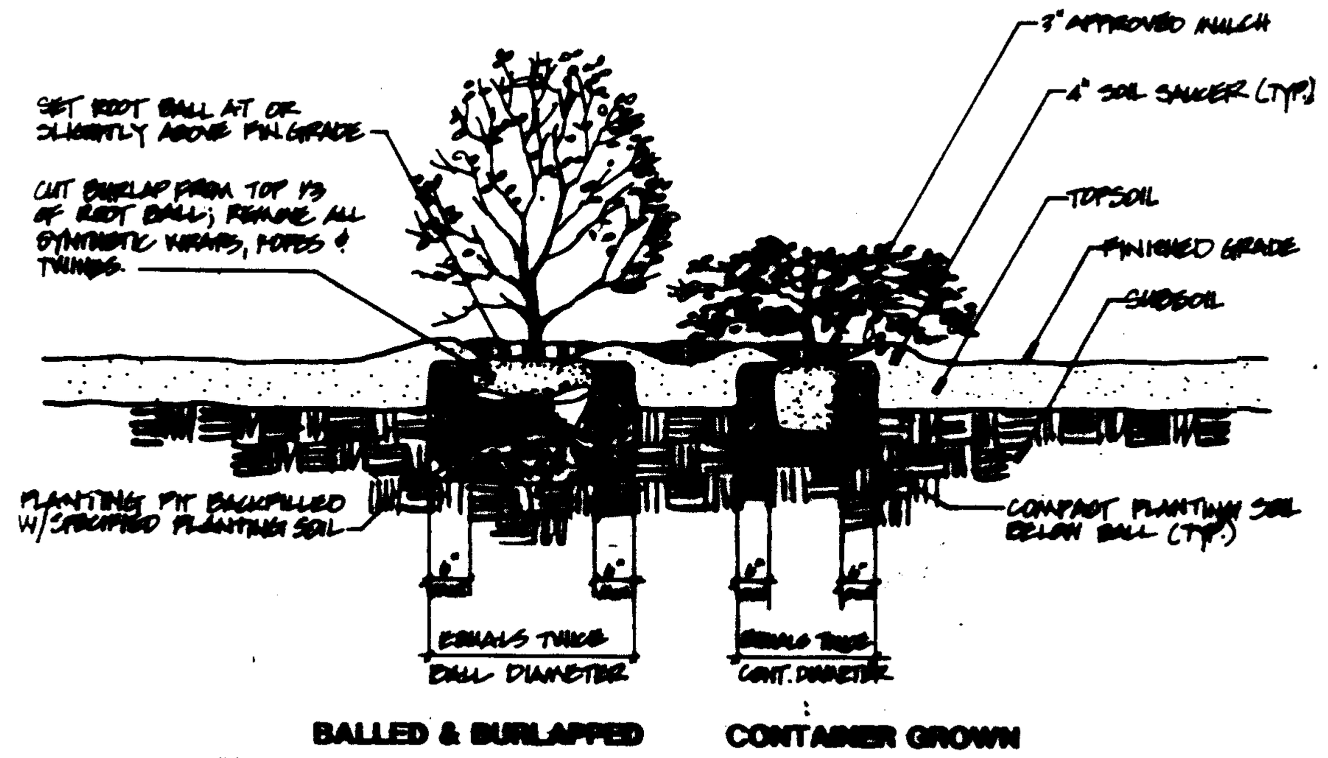
B-1181-X

SDP 91-54



Evergreen Tree Detail

NO SCALE

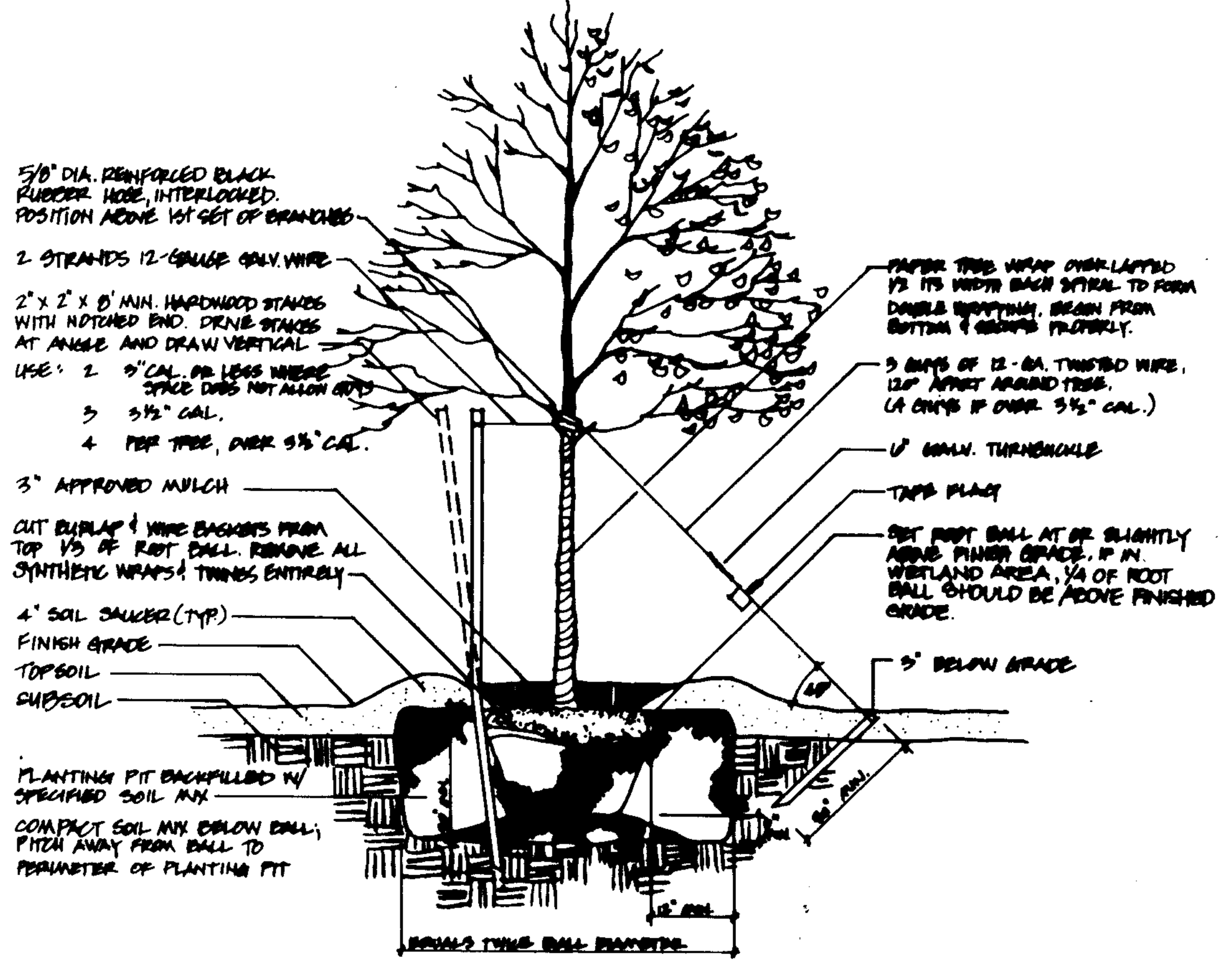


Shrub Planting

NO SCALE

PRUNING SHALL BE IN ACCORDANCE WITH APPROVED HORTICULTURAL STANDARDS IN ORDER TO PRESERVE THE NATURAL FORM OF THE SPECIFIC PLANT. IF APPLICABLE AND APPROVED BY THE LANDSCAPE ARCHITECT, ONE FOURTH TO ONE THIRD OF THE WOOD SHALL BE REMOVED BY THINNING OUT TO BALANCE ROOT LOSS DUE TO TRANSPLANTING.

NOTE: WHERE PLANT PITS ARE DUG WITH MACHINE DEVICES, GLAZED SIDES OR HARDENED SURFACES SHALL BE SCARIFIED PRIOR TO PLANTING.

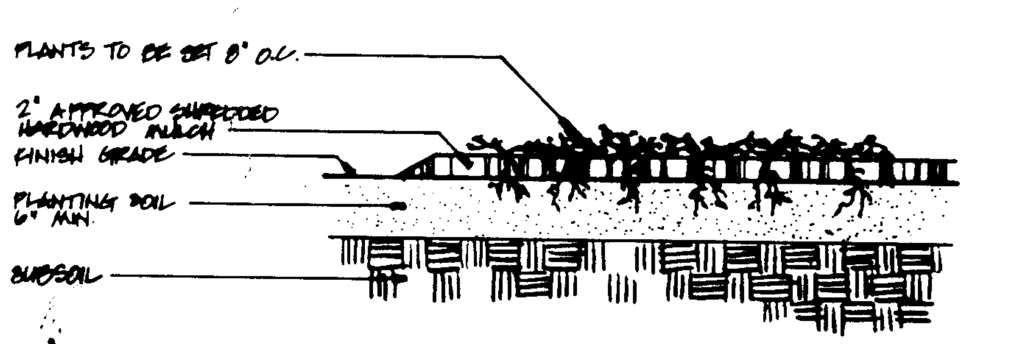


STAKING DECIDUOUS TREES 3" CAL. OR LESS EVERGREEN TREES 8' HT. OR LESS

GUYING DECIDUOUS TREES OVER 3" CAL. EVERGREEN TREES OVER 8' HT.

Tree Planting

NO SCALE



Groundcover Planting

NO SCALE

PLANT LIST

QUANTITY	BOTANICAL NAME/COMMON NAME	HEIGHT	SPREAD	MINIMUM CALIPER	REMARKS
DECIDUOUS TREES					
21	Quercus palustris/Pin Oak	12'-14'	N/A	2"-3"	B&B Full Crowns
50	Liquidambar styraciflua/ Sweetgum	12'-14'	N/A	2"-3"	B&B Full Crowns
19	Zelkova serrata/Japanese Zelkova	12'-14'	N/A	2"-3"	B&B Full Crowns
ORNAMENTAL TREES					
16	Malus floribunda/Flowering Crabapple	6'-7'	N/A	2"-2 1/2"	B&B
EVERGREEN TREES					
8	Picea omorika/Serbian Spruce	6'-7'	N/A		B&B Unsheared
SHRUBS					
110	Euonymus alatus 'compactus'/ Burning Bush	24"-30"	N/A		B&B Planted 3' O.C.
460	Juniperus conferta/Shore Juniper	18"-24"	N/A		B&B Planted 3' O.C.
	CORNILLA VARIA 5516/1000 ft²				LEGUMINOUS SEED TO BE USED MSHA SEED MIX NO SEC 920.04.02

NOTE: QUANTITIES SHOWN ON PLANT LIST ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE, HOWEVER THE PLAN QUANTITIES SHALL TAKE PRECEDENCE OVER THE PLANT LIST.

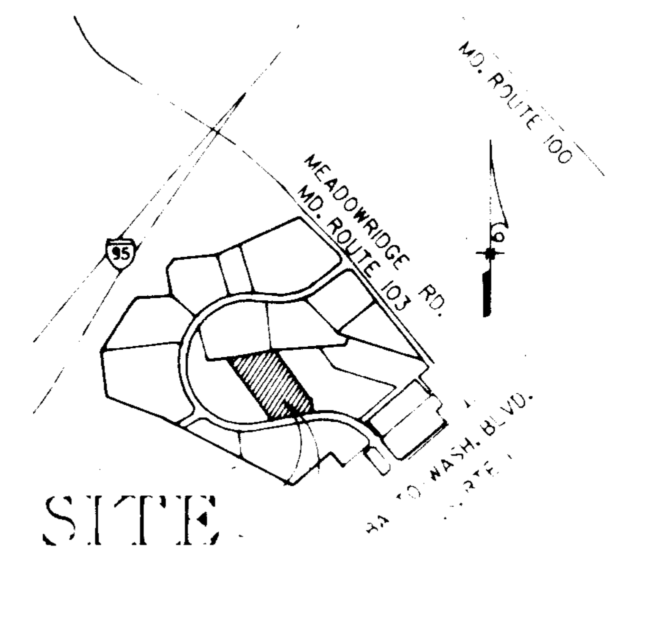
PLANTING NOTES

1. Botanical names shall prevail over common names.
2. No plant substitutions shall be made without prior written approval of the Landscape Architect.
3. All plant material shall be nursery grown, no collected materials shall be accepted, unless specifically indicated.
4. Plants shall conform with the American Associated of Nurserymen standards in all ways including dimensions.
5. All plants are to be approved and/or tagged by the Landscape Architect. The Landscape Architect has the right to reject any plant materials upon delivery to the project. Selection by the Landscape Architect AT THE NURSERY DOESN'T waive the right of rejection.
6. All replacements shall be plants of the same kind and size as specified in the plant list, or as is necessary to match surviving plants of the same planting group. All costs shall be borne by the Landscape Contractor except for replacements resulting from loss or damage due to vandalism or acts of neglect on the part of others, physical damage by animals, vehicles, fire, etc., as may be determined by the Landscape Architect.
7. Quantities shown on the Contract Drawings take precedence over plant materials list. Plant materials shall be furnished and planted as specified. Any deviation from these specifications will be rejected.
8. All plant materials shall be placed, or locations staked, on the site as shown on the planting plan prior to commencement of plant excavation for the Landscape Architect's approval. The Contractor must notify the Landscape Architect of all planting operations a minimum of 48 hours in advance.
9. All plant materials shall be balled and burlapped or container grown or as otherwise specified. No constructed balls shall be accepted. Remove synthetic "burlap" and synthetic twines and ropes. Remove top 1/3 of metal baskets from root balls when the root ball has been positioned in the planting pit; provide support as necessary to protect the root ball from injury during this operation.
10. All plant materials are to be set with the top of root ball even with or slightly above the finished grade.
11. Planting soil shall consist of 5 parts topsoil (or excavated soil if approved by the Landscape Architect), one part sphagnum moss, one part dehydrated cow manure.
12. All plant beds except as specifically noted, are to be topped with a 3" layer of pine bark mulch. Sample to be approved.
13. Seed all disturbed areas. Grass seed shall be fresh, clean, new crop seed composed of the following varieties mixed in the proportions by weight shown and testing the minimum percentages of purity and germination:

TYPE I	% BY WT.	TYPE II	% BY WT.
Perennial Rye	25%	F-31 Tall Fescue	80%
Kentucky Bluegrass (approved hybrid varieties)	50%	Annual Ryegrass	20%
Creeping Red or Pennlawn Fescue	25%		

14. Seeding of lawn areas shall be at the rate of at least 5 lbs. per 1000 square feet. All lawn areas shall be Type I seed mix unless otherwise designated.
15. All lawn areas shall be fertilized with a complete fertilizer, at least half of the nitrogen of which is derived from a natural organic source. It shall be of a 1:1:1 ratio in the spring using a minimum analysis of 10:10:10 and a 1:2:1 ratio in the fall using a minimum analysis of 5:10:5.
16. All lawn areas shall be mulched with salt hay or equal as approved by the Landscape Architect. Straw hay is not permitted.
17. Report any discrepancies to the Landscape Architect immediately for decision.
18. Maintenance shall begin immediately after each plant is planted, and shall continue until acceptance. Plants shall be watered, remulched, weeded, pruned, sprayed, fertilized, cultivated, and otherwise maintained and protected until acceptance of work. Settled plants shall be reset to a proper grade and position, planting saucer restored, and dead material removed. Guys shall be tightened and repaired. Defective work shall be corrected as soon as possible after it becomes apparent, when weather and season permit. Upon completion of planting and prior to acceptance the Landscape Contractor shall remove from the site excess soil and debris and repair disturbed lawn areas and any other damage resulting from planting operations. Dangerous conditions shall be repaired immediately.
19. Upon completion of all landscaping operations, an inspection will be made to determine the acceptability of the job. At this time, a one year guarantee period shall begin, to be culminated by a final inspection. Immediately prior to final inspection, unless otherwise directed, the Contractor shall remove soil saucers, hose, guy wires, wrapping material and stakes. Only those materials found to be alive and in a vigorous, healthy condition at that time will be granted final acceptance. All other material shall be replaced at the Contractor's expense. A sum to cover potential replacements may be withheld if so desired by the owner. The Landscape Architect will be the sole judge of plant material acceptability.

* Planting after Nov. 21 to be guaranteed thru 2nd spring's leafing.



VICINITY MAP

SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER 6-19-91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR 3/22/91

CHIEF, BUREAU OF ENGINEERING 3/22/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR 6/26/91 DATE

CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT 6/25/91 DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an as-built plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer Date

By the Engineer:

I certify that this plan for pond construction/erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion.

Signature of Engineer Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation District Date

S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
WP-86-46 F-90-103
GP-89-14

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART

PARCEL	STREET ADDRESS
C	6695 BUSINESS PARKWAY

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
MEADOWRIDGE BUSINESS PARK	N/A	PARCEL

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
9046	22	M-1	37	1st	6012

WATER CODE	SEWER CODE
BO	2153000

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS

GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 206
BALTIMORE, MD. 21204
(301)296-4100

ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

STATE OF MARYLAND DAVID LLOYD MARTIN LANDSCAPE ARCHITECT

REVISIONS	BY

PLANTING DETAILS
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
ZONE M-1 TAX ZONE MAP 37
1st ELECTION DISTRICT

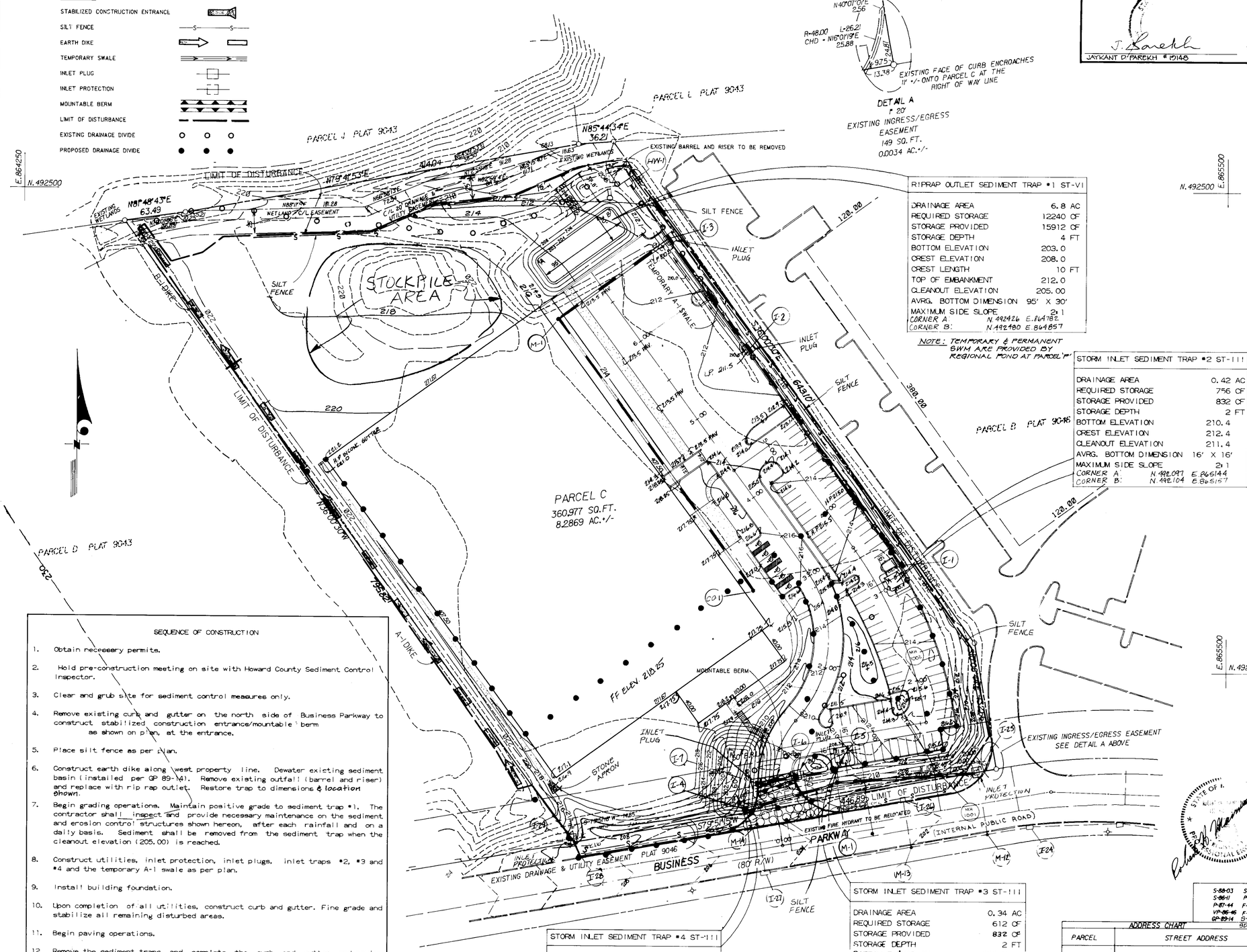
OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date
Scale
Drawn
8958.00
Sheet 7
of 13 Sheets

LEGEND

- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- EARTH DIKE
- TEMPORARY SWALE
- INLET PLUG
- INLET PROTECTION
- MOUNTABLE BERM
- LIMIT OF DISTURBANCE
- EXISTING DRAINAGE DIVIDE
- PROPOSED DRAINAGE DIVIDE



RIPRAP OUTLET SEDIMENT TRAP #1 ST-VI	
DRAINAGE AREA	6.8 AC
REQUIRED STORAGE	12240 CF
STORAGE PROVIDED	15912 CF
STORAGE DEPTH	4 FT
BOTTOM ELEVATION	203.0
CREST ELEVATION	208.0
CREST LENGTH	10 FT
TOP OF EMBANKMENT	212.0
CLEANOUT ELEVATION	205.00
AVRG. BOTTOM DIMENSION	95' X 30'
MAXIMUM SIDE SLOPE	2:1
CORNER A:	N 492426 E 864782
CORNER B:	N 492480 E 864857

NOTE: TEMPORARY & PERMANENT SWM ARE PROVIDED BY REGIONAL POND AT PARCEL 'H'

STORM INLET SEDIMENT TRAP #2 ST-III	
DRAINAGE AREA	0.42 AC
REQUIRED STORAGE	756 CF
STORAGE PROVIDED	832 CF
STORAGE DEPTH	2 FT
BOTTOM ELEVATION	210.4
CREST ELEVATION	212.4
CLEANOUT ELEVATION	211.4
AVRG. BOTTOM DIMENSION	16' X 16'
MAXIMUM SIDE SLOPE	2:1
CORNER A:	N 492097 E 865144
CORNER B:	N 492104 E 865157

STORM INLET SEDIMENT TRAP #3 ST-III	
DRAINAGE AREA	0.34 AC
REQUIRED STORAGE	612 CF
STORAGE PROVIDED	832 CF
STORAGE DEPTH	2 FT
BOTTOM ELEVATION	206.3
CREST ELEVATION	208.3
CLEANOUT ELEVATION	207.3
AVRG. BOTTOM DIMENSION	16' X 16'
MAXIMUM SIDE SLOPE	2:1
CORNER A:	N 491920 E 865092
CORNER B:	N 491923 E 865106

STORM INLET SEDIMENT TRAP #4 ST-III	
DRAINAGE AREA	1.6 AC
REQUIRED STORAGE	2880 CF
STORAGE PROVIDED	5989 CF
STORAGE DEPTH	3.3 FT
BOTTOM ELEVATION	202.0
CREST ELEVATION	205.3
CLEANOUT ELEVATION	203.6
AVRG. BOTTOM DIMENSION	20' X 60'
MAXIMUM SIDE SLOPE	2:1
CORNER A:	N 491920 E 864983
CORNER B:	N 491861 E 864979

NOTE: GRADE OF TRAP #4 WILL BE FLUSH WITH ACCESS ROAD WHEN GRADED.

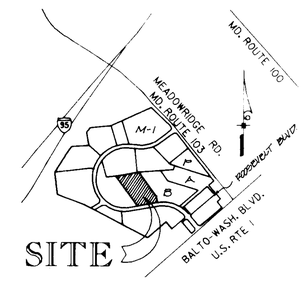
SEQUENCE OF CONSTRUCTION

1. Obtain necessary permits.
2. Hold pre-construction meeting on site with Howard County Sediment Control Inspector.
3. Clear and grub site for sediment control measures only.
4. Remove existing curb and gutter on the north side of Business Parkway to construct stabilized construction entrance/mountable berm as shown on plan, at the entrance.
5. Place silt fence as per plan.
6. Construct earth dike along west property line. Dewater existing sediment basin (installed per GP 89-14). Remove existing outfall (barrel and riser) and replace with rip rap outlet. Restore trap to dimensions & location shown.
7. Begin grading operations. Maintain positive grade to sediment trap #1. The contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon, after each rainfall and on a daily basis. Sediment shall be removed from the sediment trap when the cleanout elevation (205.00) is reached.
8. Construct utilities, inlet protection, inlet plugs, inlet traps #2, #3 and #4 and the temporary A-1 swale as per plan.
9. Install building foundation.
10. Upon completion of all utilities, construct curb and gutter. Fine grade and stabilize all remaining disturbed areas.
11. Begin paving operations.
12. Remove the sediment traps and complete the curb and gutter and paving operations in these areas.
13. With the approval of Howard County Sediment Control Inspector remove sediment control measures

NOTE:
SEE SHEET NO. 3 OF 13 FOR FINAL GRADING OF SITE UPON REMOVAL OF ALL SEDIMENT CONTROL MEASURES.

AS-BUILT CERTIFICATION

J. Parekh 3.3.93
JAYKANT D. PAREKH #10148 DATE



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 6-19-91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6.13.91
CHIEF, BUREAU OF ENGINEERING — 5/24/91 — TP

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — 6/26/91 DATE
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — 6/27/91 DATE

SEDIMENT CONTROL

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Keith H. Jensen — 4/26/90
Signature of Developer — Date
Keith N. Jansen, Operations Mgr.

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. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District."

Robert N. Warner — 10/26/90
Signature of Engineer — Date

Reviewed for Howard Soil Conservation District and meets technical requirements

USDA Soil Conservation Service — 3/12/91 Date

This development plan is approved for soil erosion and sediment control by the Howard County Soil Conservation District

Howard Soil Conservation Service — 3/12/91 Date

S-88-03	P-88-11	P-89-04	P-89-15
P-87-44	F-89-163	VP-86-46	F-90-103
GP-89-14	S-90-08	SDP-91-54	

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART

PARCEL	STREET ADDRESS	SUBDIVISION NAME		SECT./AREA		LOT/PARCEL
		MEADOWRIDGE BUSINESS PARK		NA		PARCEL "C"
C	6445 BUSINESS PARKWAY	PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
		9041-97	22A	M-1	37 #3	1st	6012
		WATER CODE		SEWER CODE			
		801		2153000			

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
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GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY

SEDIMENT CONTROL PLAN
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
TAX / ZONE MAP 37
ZONE M-1
1st ELECTION DISTRICT

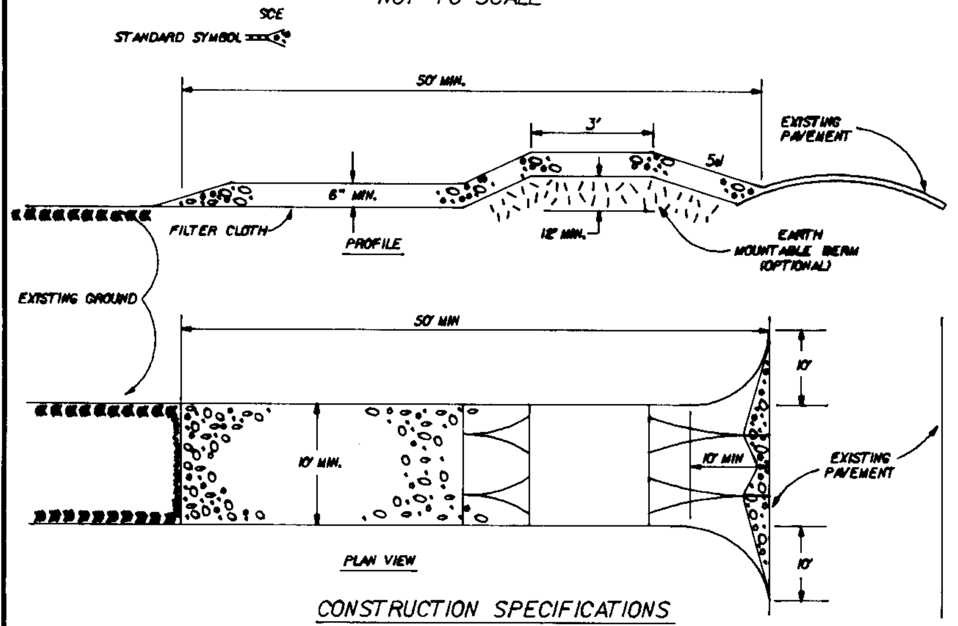
OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 1/1/0
Scale 1"=50'
Drawn TJW
Job 7739
Sheet 8
of 13 Sheets

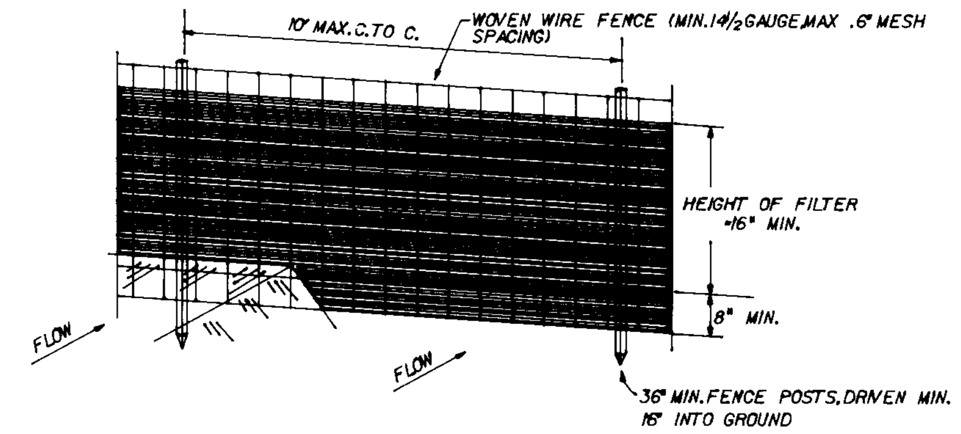
AS-BUILT SDP-91-54 B-1159-X

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

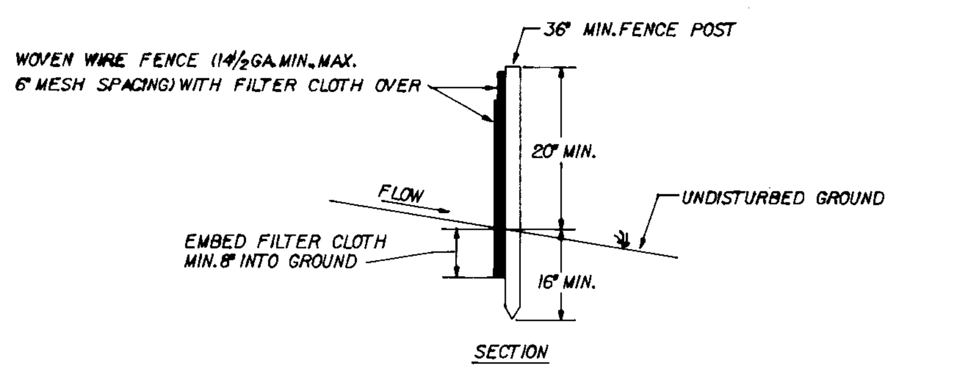


CONSTRUCTION SPECIFICATIONS
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH A 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

SILT FENCE
NOT TO SCALE



PERSPECTIVE VIEW



SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14 GA. 6" MAX.MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

PERMANENT SEEDING NOTES
Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

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

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/1000 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/100 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/100 sq ft) before seeding. Harrow or disc into upper three inches of soil.

2 Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

Seeding - For the 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 (lbs/1000 sq ft) of weeping lovegrass. During the period of October 16 thru February , protect 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 sod. 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/100 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool of 218 gallons 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 achoring.

Maintenance - Inspect all seeded 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 be raking, discing or other acceptable means before seeding.

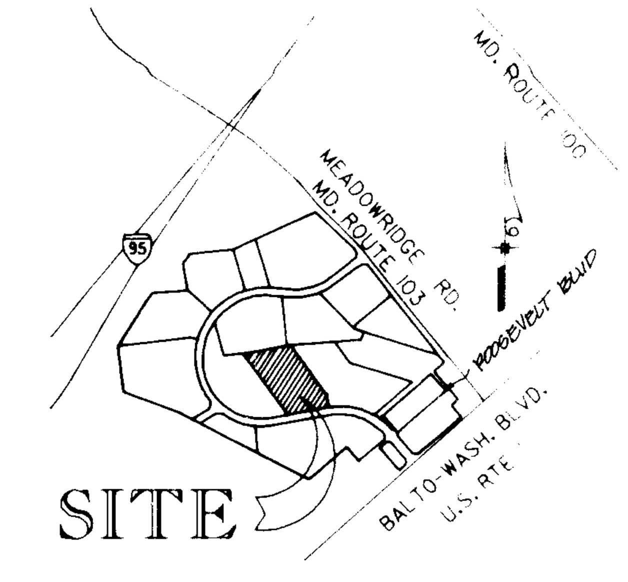
Soil Admendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

Seeding: For period March 1 thru April 30 and from August 15 thru November 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 lobegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tones 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/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) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

SEDIMENT CONTROL NOTES
1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION.
2. ALL VEGETATION AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMINENT SEDIMENT CONTROL STRUCTURES, DIKES, PERMINENT SLOPES AND ALL SLOPES GREATER THAN 3:1 B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECOIFIED ABOVED IN ACCORDANCE WITHIN THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMINENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52) TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECCOMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
6. ALL SEDIMENT CONTROL STRUCTURES ARE YO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
7. SITE ANALYSIS:
   TOTAL AREA OF SITE 8.29 ACRES
   AREAS DISTURBED 8.20 ACRES
   AREA TO BE ROOFED OR PAVED 5.91 ACRES
   AREA TO BE VEGETATIVELY STABILIZED 2.29 ACRES
   TOTAL CUT 14,000 CU. YDS.
   TOTAL FILL 10,000 CU. YDS.
   OFFSITE WASTE/ AREA LOCATION: LOCATION ON MEADOWRIDGE BUSINESS PARK
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 DPW SEDIMENT CONTROL INSPECTOR.
10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 6-19-91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6.13.91

CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — 6/26/91 DATE

CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — 6/26/91 DATE

SEDIMENT CONTROL

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conversation District."

Keith N. Jensen — 9/26/90
Signature of Developer — Date
Keith N. Jensen Operations Mgr.

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. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District.

Robert H. Marmon — 10/26/90
Signature of Engineer — Date

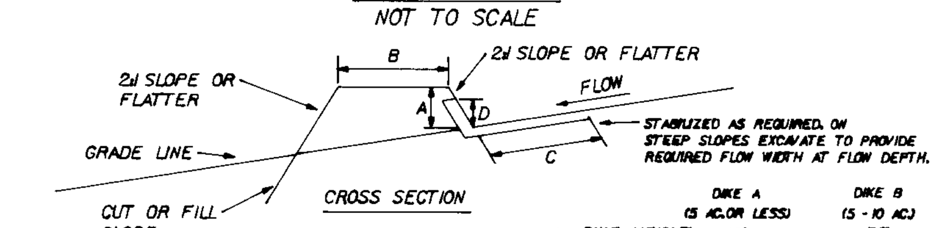
Reviewed for Howard Soil Conservation District and meets technical requirements

U.S. Soil Conservation Service — Date 3/12/91

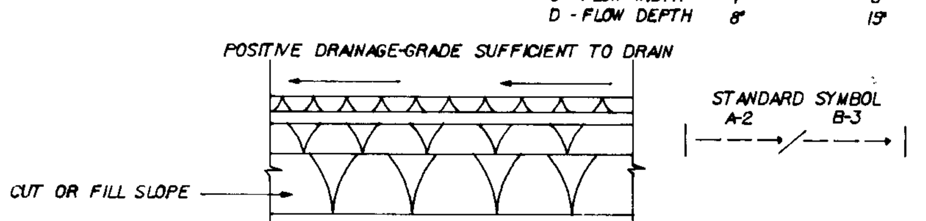
This development plan is approved for soil erosion and sediment control by the Howard County Soil Conservation District

Howard Soil Conservation Service — 3/12/91 Date

EARTH DIKE
NOT TO SCALE



	DIKE A (5 AC. OR LESS)	DIKE B (5 - 10 AC.)
A - DIKE HEIGHT	18"	36"
B - DIKE WIDTH	24"	36"
C - FLOW WIDTH	4'	6'
D - FLOW DEPTH	8"	15"



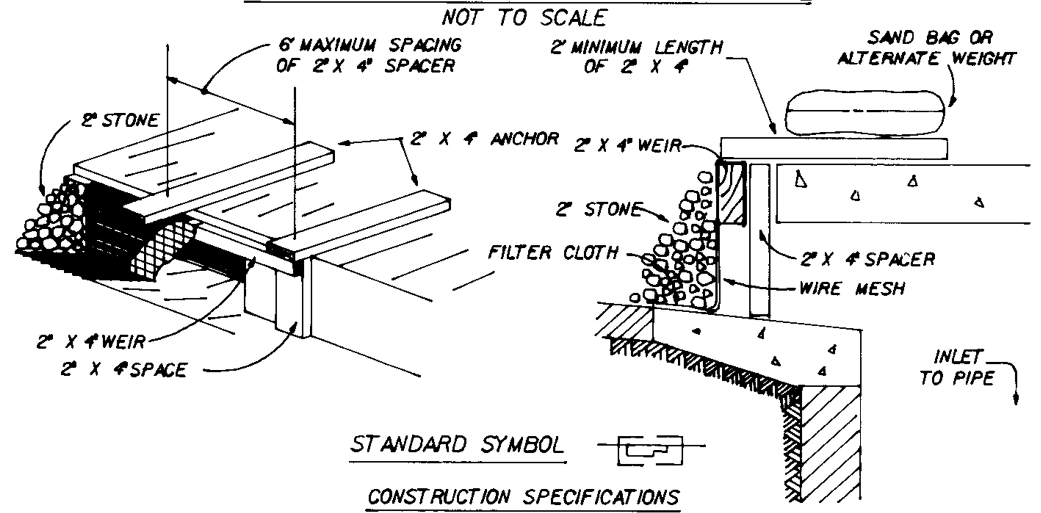
CONSTRUCTION SPECIFICATIONS
1. ALL DIKES SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH OR STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE SOIL
C. APPROVED EQUIVALENTS CAN BE SUBSTITUTED FOR ANY OF THE ABOVE MATERIALS.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

CURB INLET PROTECTION DETAIL
NOT TO SCALE



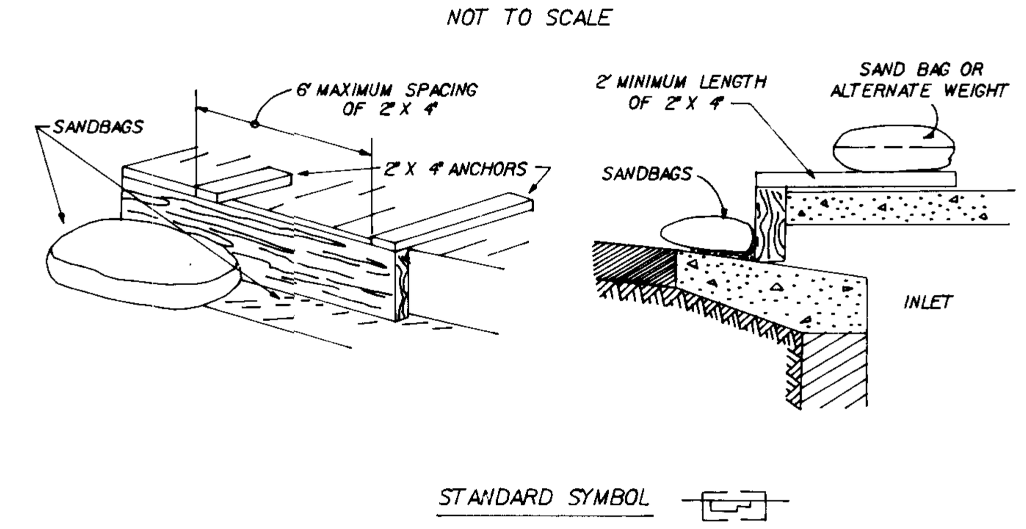
STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS
I. MATERIALS FRAME
A. WOODEN IS TO BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
B. WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC AND STONE FOR CURB INLETS, WITH WATER FULLY IMPOUNDED AGAINST IT.
C. FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE; RESISTANT TO SUNLIGHT WITH SIEVE SIZE, EOS, 40-85, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
D. STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.

II. PROCEDURE

CURB INLET PROTECTION
1. ATTACH A CONTINUOUS PIECE OF WIRE MESH (30" MIN.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 PIECE OF APPROVED FILTER CLOTH (40-85 SIEVE) OF THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH TO THE 2" X 4" WEIR.
3. SECURELY NAIL THE 2" X 4" WEIR TO 9" LONG VERTICAL SPACERS TO BE LOCATED BETWEEN THE WEIR AND INLET FACE (MAX.6' 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 HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.
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 WIRE MESH AND FILTER CLOTH TO THE CONCRETE GUTTER AND AGAINST THE FACE OF CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO INLET.

CURB INLET BLOCK DETAIL
NOT TO SCALE



STANDARD SYMBOL

CONSTRUCTION SPECIFICATIONS
I. MATERIALS

A. WOODEN FRAME IS TO BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.

II. PROCEDURE
1. SECURELY NAIL ONE 2" X 4" X 10' BOARD TO 2" X 4" ANCHORS. ANCHORS TO BE SPACED 6' APART MAX. AND SHALL EXTEND ACROSS THE INLET TOP.
2. PLACE ASSEMBLY TIGHTLY AGAINST THE INLET THROAT. PLACE SANDBAGS OR ALTERNATE WEIGHTS AT 2" X 4" ANCHORS.
3. PLACE SANDBAGS AGAINST BOARD IN THE GUTTER TO HOLD BOARD TIGHTLY AGAINST INLET THROAT TO KEEP FLOW FROM ENTERING INLET.
4. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY.

S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
VP-86-46 F-90-103
GP-89-14

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART — SDP-91-54

PARCEL	STREET ADDRESS
C	6695 BUSINESS PARKWAY

SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
MEADOWRIDGE BUSINESS PARK	NA	PARCEL

PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
9041-47	22,4	M-1	37,43	1st	6012

WATER CODE	SEWER CODE
B01	2153000

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS

GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301) 296-4100

ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY

SEDIMENT CONTROL DETAILS
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
TAX / ZONE MAP 37
ZONE M-1
1st ELECTION DISTRICT

OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

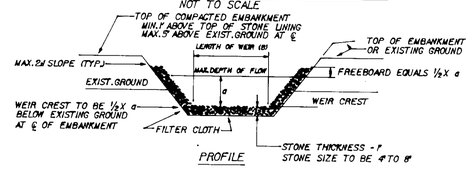
Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 10/90
Scale NONE
Drawn CADD
Job 7739
Sheet 9
Of 13 Sheets

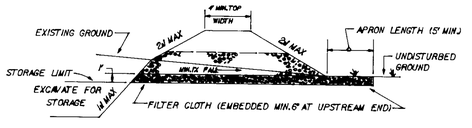
SDP-91-54 B-1191-X

RIPRAP OUTLET SEDIMENT TRAP ST-VI

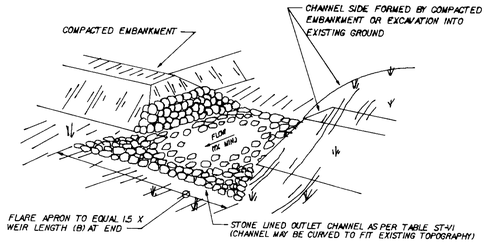
NOT TO SCALE



PROFILE



CROSS SECTION



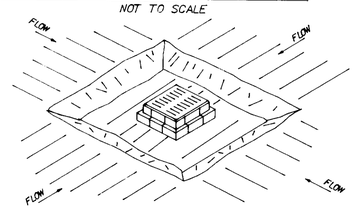
PERSPECTIVE VIEW

CONSTRUCTION SPECIFICATIONS FOR ST-VI

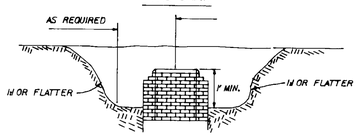
1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGITATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGITATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIALS OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSATTUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE FIVE (5') FEET, MEASURED AT CENTERLINE OF EMBANKMENT.
3. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER, CUT SLOPES 1:1 OR FLATTER.
4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF EMBANKMENT.
5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME AVAILABLE BEHIND THE OUTLET CHANNEL UP TO AN ELEVATION OF ONE (1) FOOT BELOW THE LEVEL WEIR CREST.
6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTIONS OF FABRIC MUST OVERLAP AT LEAST ONE (1) FOOT WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST SIX (6) INCHES INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.
7. STONE USED IN THE OUTLET CHANNEL SHALL BE FOUR (4) TO EIGHT (8) INCHES (RIPRAP). TO PROVIDE A FILTERING EFFECT, A LAYER OF FILTER CLOTH SHALL BE EMBEDDED ONE (1) FOOT BACK INTO THE UPSTREAM FACE OF THE OUTLET STONE OR A ONE (1) FOOT THICK LAYER OF TWO (2) INCH OR FINER AGGREGATE SHALL BE PLACED ON THE UPSTREAM FACE OF THE OUTLET.
8. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO IT'S ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ½ 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.
9. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRED AS NEEDED.
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
11. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
12. DRAINAGE AREA FOR THIS PRACTICE IS LIMITED TO 15 ACRES OR LESS.

STORM INLET SEDIMENT TRAP ST-III

NOT TO SCALE



YARD DRAIN



CROSS SECTION

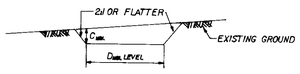
CONSTRUCTION SPECIFICATIONS FOR ST-III

1. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO IT'S ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ½ 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 1800 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 CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
6. ALL CUT SLOPES SHALL BE 1:1 OR FLATTER.

MAXIMUM DRAINAGE AREA: 3 ACRES

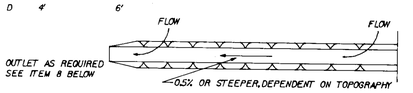
TEMPORARY SWALE

NOT TO SCALE



CROSS SECTION

SWALE A	SWALE B
C 1'	1'
D 4'	6'



PLAN VIEW

STANDARD SYMBOL T.S.-A-2 T.S.-B-3

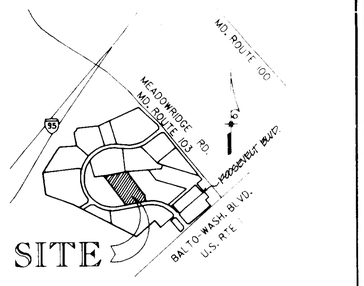
CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. STABILIZATION SHALL BE AS PER THE CHART BELOW:

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC OR LESS)	B (5 AC - 10 AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.



VICINITY MAP

SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 6-19-91

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6.13.91

CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6/26/91

CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 6/25/91

SEDIMENT CONTROL

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Keith N. Jensen — Signature of Developer — 9/24/90 Date

Keith N. Jensen Operations Mgr.

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. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District."

Robert A. Marman — Signature of Engineer — 10/26/90 Date

Reviewed for Howard Soil Conservation District and meets technical requirements

U.S. Soil Conservation Service — Date 3/12/91

This development plan is approved for soil erosion and sediment control by the Howard County Soil Conservation District

Howard Soil Conservation Service — Date 3/12/91

STATE OF MARYLAND — ROBERT A. MARMAN — 21410 — PROFESSIONAL ENGINEER

S-88-03 S-89-04 S-86-11 P-89-15 P-87-44 F-89-163 VP-86-46 F-90-103 SP-89-14

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART — SDP-91-54

PARCEL	STREET ADDRESS	SUBDIVISION NAME			SECT./AREA	LOT/PARCEL
		MEADOWRIDGE BUSINESS PARK			NA	PARCEL
C	6695 BUSINESS PARKWAY	PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
		9241-97	22,4	M-1	37,4B	1st	6012
		WATER CODE			SEWER CODE	
		801			2153000	

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
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GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY

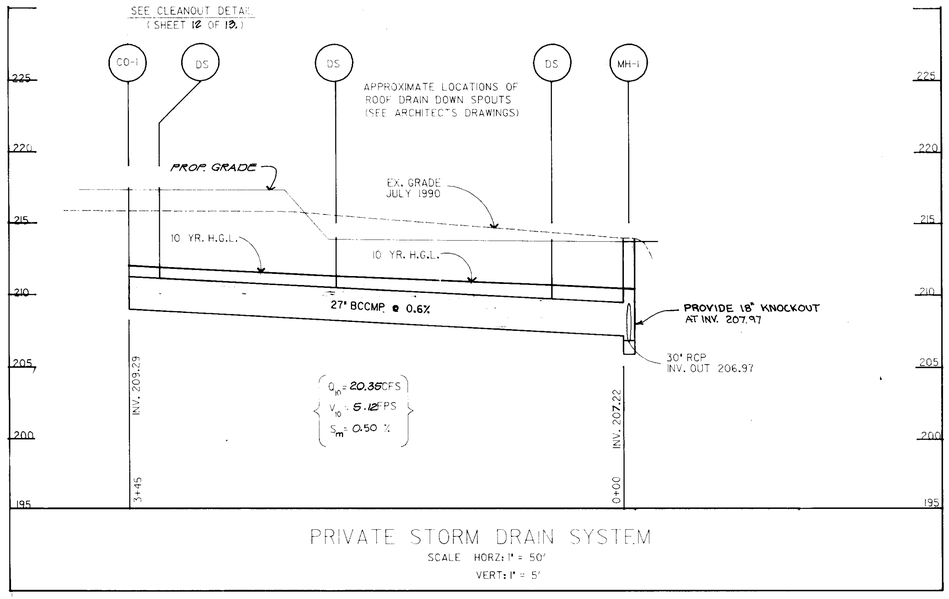
SEDIMENT CONTROL DETAILS
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
TAX / ZONE MAP 37
ZONE M-1
1ST ELECTION DISTRICT

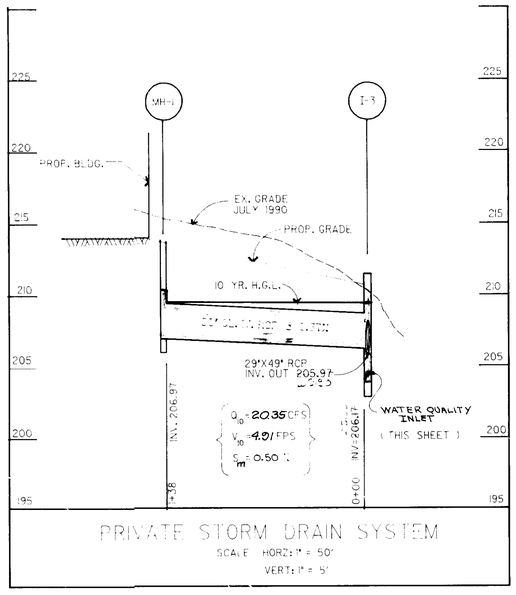
OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

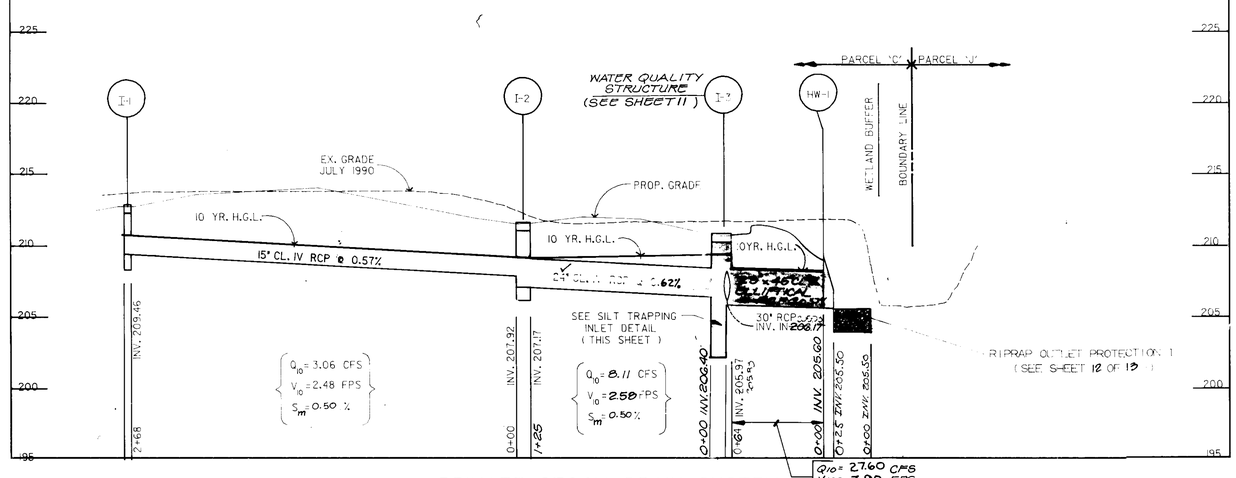
Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 10/90
Scale NONE
Drawn CADD
Job 7739
Sheet 10
Of 13 Sheets

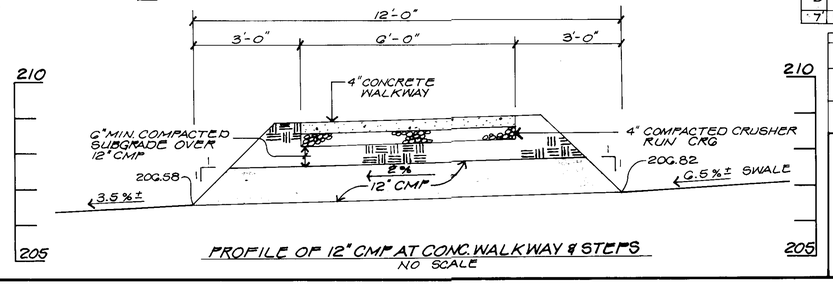
SDP-91-54 B-1181-X



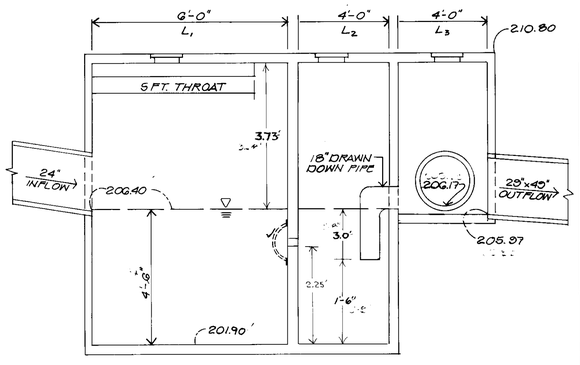




Q_{10} = 27.60 CFS
V_{10} = 3.90 FPS
S_m = 0.50 %



PROFILE OF 12" CMP AT CONC. WALKWAY & STEPS
NO SCALE



"OIL AND GRIT SEPERATOR"
WATER QUALITY INLET STRUCTURE
SCHEMATIC ONLY

REFER TO HOWARD COUNTY STANDARDS W.326, W 3.27, W 3.28

DIMENSIONS			
B	H	L (L_1+L_2)	
7'	8.23	10'	

AS-BUILT CERTIFICATION

J. Parekh 3.3.93

JAYKANT D. PAREKH # 10148 DATE

DESIGN AND GENERAL NOTES

1. Use poured-in place concrete for the entire structure.
2. Refer to Maryland State Highway Administration for materials and methods of construction.
3. Wall thickness shall be as follows:
   Minimum 8 inches thick for the first 8'-0" and 12'-0" of depth and 16 inch thick walls for depth greater than 12'-0". Depth to be measured from top to top slab to crown of outgoing pipe.
4. f'c = 3,500 psi at 28 days.
5. All reinforcing steel to be ASTM A615, GR.60.
6. For details concerning throat openings, refer to MCDOT Standard No. 55.

Throat Length	No. of Pipe Supports
5'	0
10'	1
15'	2
20'	3

pipe supports to be spaced at 5'-0" O.C.

7. For details not noted in this standard, refer to MCDOT Standard No. 55.
8. The top 4 inches of walls may be brick masonry for leveling, if required. Brick masonry shall comply with the latest SHA Specification.
9. When grate opening is used, refer to the appropriate SHA Standard for details. Details shall be shown on the plans.
10. When inside width of structure is greater than 4'-0", reinforcing shall be revised as needed.
11. When structure is subject to traffic loading, reinforcing shall be designed for the appropriate traffic loads. Design loads shall be indicated on the plan.
12. All inlets and incoming pipes shall be checked for possible backwater or tailwater problems.

MAINTENANCE NOTES (WATER QUALITY STRUCTURE WASTE)

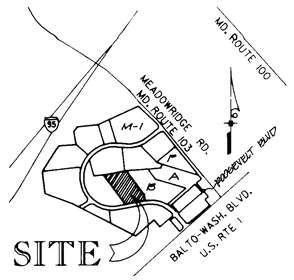
1. Water Quality Structures will require periodical cleaning. Owners of these facilities will have to clean them as needed or on a frequency that the County determines is appropriate. Owners of water quality structures will be notified by the County of the frequency of maintenance.
2. Maintenance of these facilities will consist of cleaning out the separator and disposal of the waste and the repair of the facility as needed. Periodic inspections of these facilities will be made by the County Stormwater Management group.
3. The disposal of the liquid and solid matter should be as follows:
   A. All liquid material in the separator inlet shall be pumped into a suitable tank truck and disposed of at an approved sanitary district discharge manhole or be taken to an approved sewage treatment plant for discharge.
   B. The solid material shall be landfilled in an approved sanitary landfill.
4. The inlet pipes, trash racks, gratings, and structural parts shall be repaired as needed.

CONSTRUCTION NOTES

1. Silt and debris shall not be allowed to enter the structures until contributing drainage area have been permanently stabilized.
2. All openings to structures shall be protected with the appropriate sediment control measures during construction.

INSPECTION NOTES

1. Prior to the start of construction on water quality structures, the Howard County, Construction Inspection Division Inspector must be called 48 hours in advance at 792-7272.
   A. Approval of subgrade for footing.
   B. Footing formed and steel set prior to pouring.
   C. Structure sides formed and steel set prior to pouring.
   D. Prior to top slab and manholes being set, the Construction Inspection Division Inspector must check structure and all debris and silt in structure removed.
   E. When site is permanently stabilized and sediment control measures to protect inlet are to be removed.



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — 6-19-91 DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — 6.13.91

CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — 6/26/91 DATE

CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — 6/27/91 DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer — Date

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan, based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an "as-built" plan of the pond within 30 days of completion."

Signature of Engineer — Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

U.S. Soil Conservation Service — Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation Service — Date

S-88-03	S-89-04
S-86-11	P-89-15
P-87-44	F-89-163
VP-86-46	F-90-103
SP-89-14	S-90-GD
	SDP-91-54

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART		SUBDIVISION NAME			SECT./AREA		LOT/PARCEL
PARCEL	STREET ADDRESS	MEADOWRIDGE BUSINESS PARK			NA		PARCEL - C
C	10995 BUSINESS PARKWAY	PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
		9241-47	22, 4	M-1	37, 49	1st	6012
		WATER CODE			SEWER CODE		
		B01			2153000		

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REVISIONS	BY

UTILITY PROFILES
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD. TAX / ZONE MAP 37
ZONE M-1 1st ELECTION DISTRICT

OWNER/DEVELOPER
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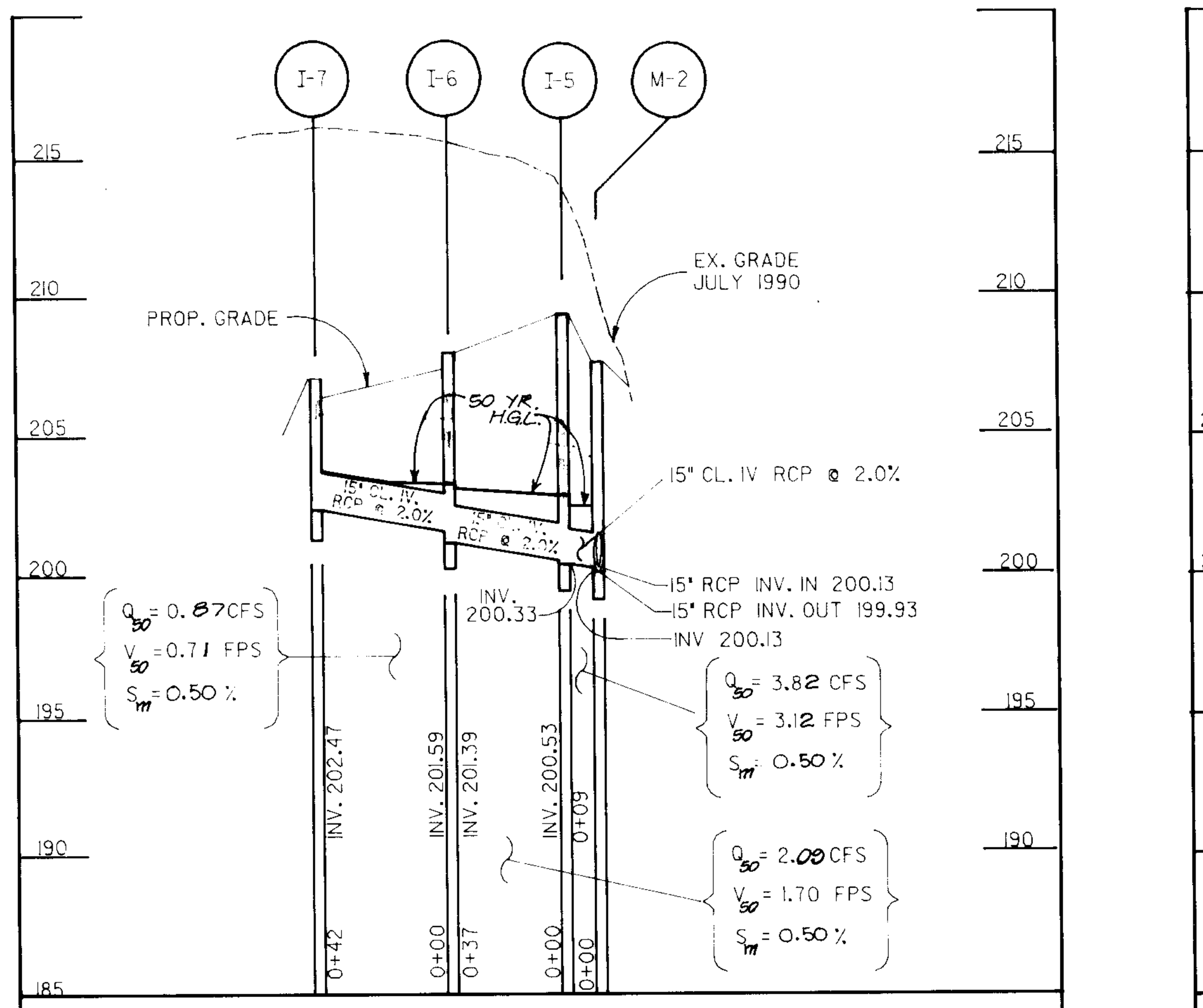
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 10/90
Scale AS NOTED
Drawn K.A.M.
Job 7739
Sheet 11
Of 13 Sheets

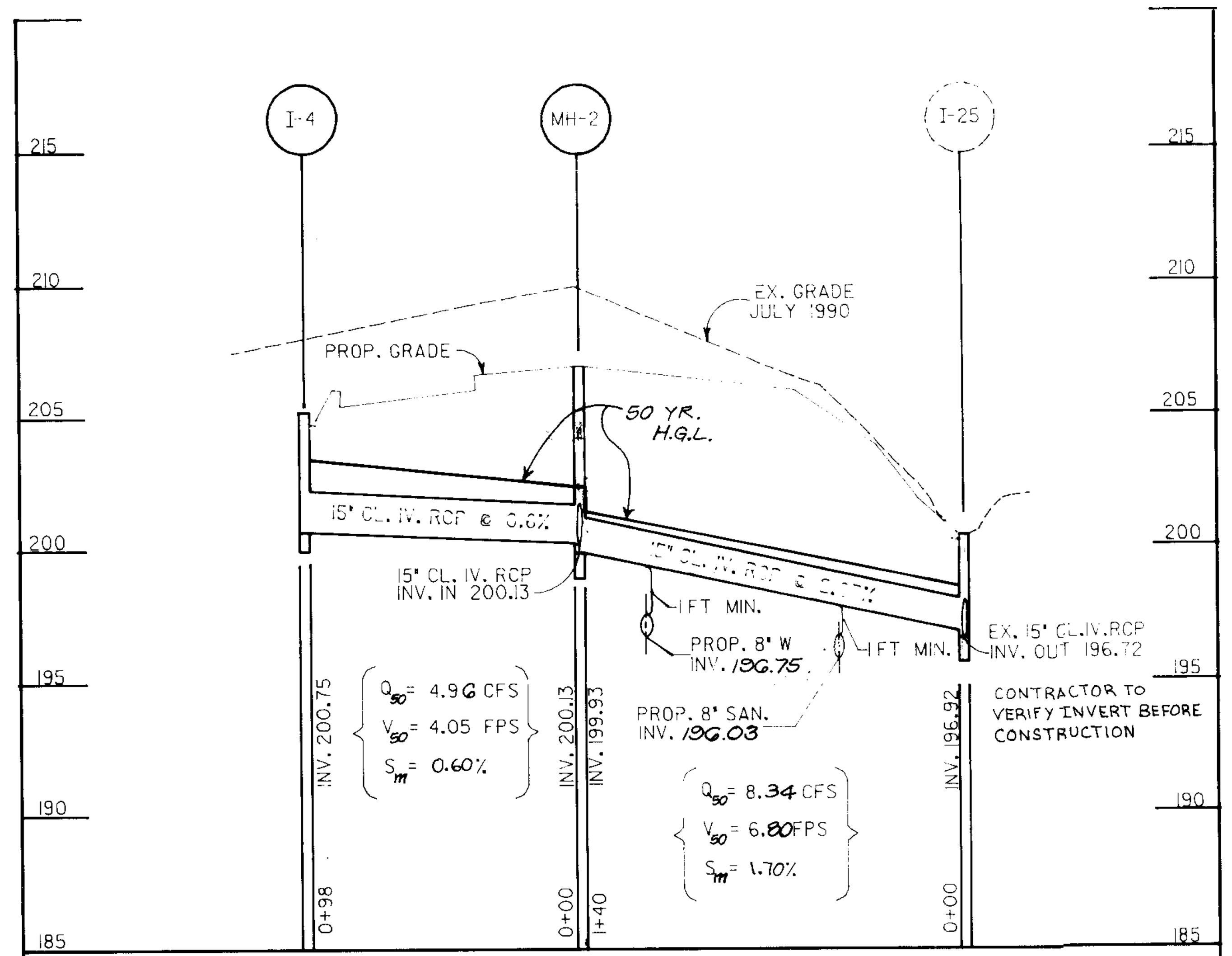
STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

WHEELING REPRODUCTION NO. 532233

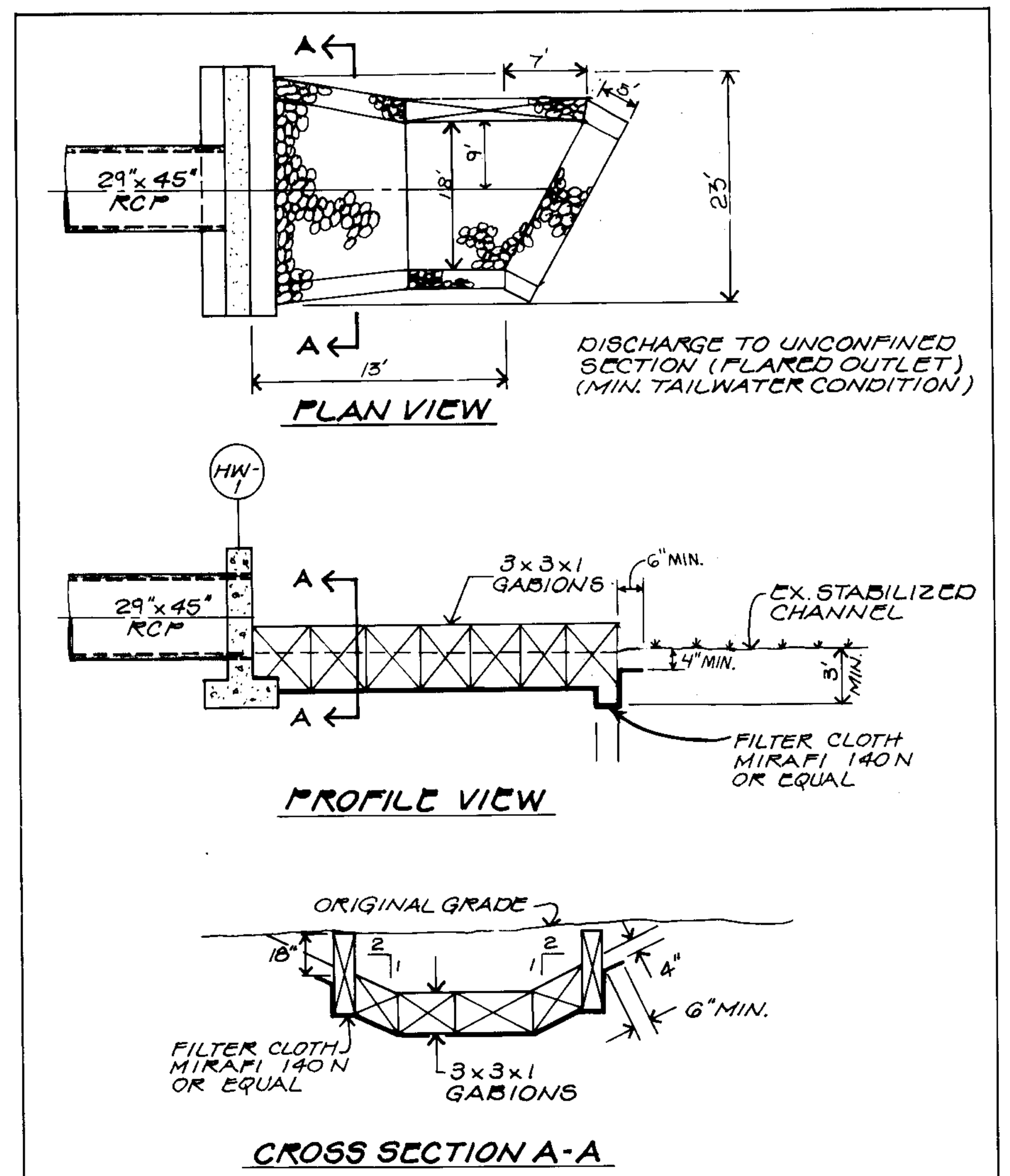
SDP-91-54 B-1181-X



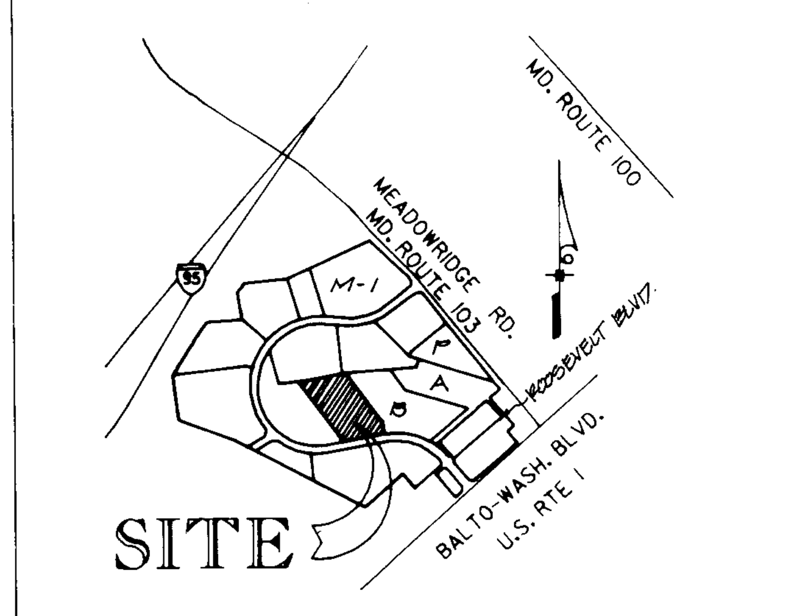
PRIVATE STORM DRAIN SYSTEM
SCALE HORZ: 1" = 50'
VERT: 1" = 5'



PRIVATE STORM DRAIN SYSTEM
SCALE HORZ: 1" = 50'
VERT: 1" = 5'



MODIFIED OUTLET STRUCTURE
NOT TO SCALE



VICINITY MAP
SCALE: 1" = 2000'

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

[signature] 6-19-91
COUNTY HEALTH OFFICER DATE

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

[signature] 6/13/91
DIRECTOR
[signature] 3/22/91
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[signature] 6/26/91
PLANNING DIRECTOR DATE
[signature] 6/25/91
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT DATE

SEDIMENT CONTROL AND POND CONSTRUCTION

By the Developer:

"I/We certify that all development and/or construction will be done according to these plans, and that any responsible personnel involved in the construction project will have a Certification of Attendance at a Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion. I also authorize periodic on-site inspection by the Howard Soil Conservation District."

Signature of Developer Date

By the Engineer:

"I certify that this plan for pond construction, erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with an 'as-built' plan of the pond within 30 days of completion."

Signature of Engineer Date

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.

U.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Howard Soil Conservation Service Date

STORM DRAIN STRUCTURE SCHEDULE						
STRUCTURE		INVERT		TOP ELEVATION		LOCATION
NO.	TYPE	IN	OUT	UPPER	LOWER	
I-1	A-5 INLET	———	209.46	213.0	213.0	℄'B' STA. 3+12.42, 30'±RT. ***
I-2	A-10 INLET	207.92	207.17	211.50	211.50	℄'A' STA. 5+27.61, 83.33' ± RT. ***
I-3**	A-5 INLET	24" -206.40 30" -206.17	205.97	210.80	210.80	℄'A' STA. 6+68.00, 83.33' ± RT. ***
I-4	TYPE K INLET	———	200.75	205.30	205.30	℄'A' STA. 0+45.00, 30.00' ± LT @ CNTR.
I-5	A-5 INLET	200.53	200.33	210.25	210.25	℄'B' STA. 0+54.14, 30'±RT. ***
I-6	S-COMB. INLET	201.59	201.39	206.60	206.10	℄'A' STA. 0+76.28, 20.78' ± RT. ***
I-7	S-COMB. INLET	———	202.47	206.42	206.10	℄'A' STA. 0+67.67, 15.03' ± LT. ***
M-1	STD. BRICK MH.	27" -207.22 18" 207.97	206.97	214.10	214.10	℄'A' STA. 6+68.00, 56.67' ± LT.
M-2	STD. BRICK MH.	15" -200.13 15" -200.13	199.93	207.75	207.75	℄'B' STA. 0+54.14, 45.00' ± RT.
CO-1*	CLEANOUT	———	209.29	215.47	215.47	℄'A' STA. 3+23.00, 56.67' ± LT.
HW-1	TYPE 'O' HEAD WALL	205.60	205.50	209.83	209.83	℄'A' STA. 7+36.00, 87.50' ± RT.

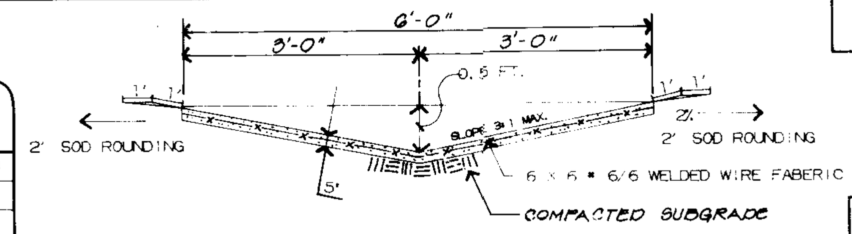
SANITARY STRUCTURE SCHEDULE						
STRUCTURE		INVERT		TOP ELEVATION		LOCATION
NO.	TYPE	IN	OUT	UPPER	LOWER	
MH-1001	HO.CO.STD. S1.32	204.28	204.18	216.00	216.00	℄'A' STA. 1+90.00, 84.56' ± RT.
MH-1002	HO.CO. STD.G5.01	195.72	195.82	209.00	209.00	℄'B' STA. 1+55, 43' ± RT.

* SEE LATERAL CLEANOUT DETAIL (SHEET 12 OF 13).
** SEE WATER QUALITY DETAIL (SHEET 11 OF 13).
*** STATION AND OFFSET GIVEN TO CENTER OF INLET @ FACE OF CURB.

STORM DRAIN PIPE SCHEDULE		
SIZE	TYPE	LENGTH (FT.)
15"	CL. IV RCP	594
12"	CMP	12
24"	CL. IV RCP	125
27"	BCCMP	345
30"	CL. IV RCP	138
29"x45"	CL. IV RCP ELLIPTICAL	64

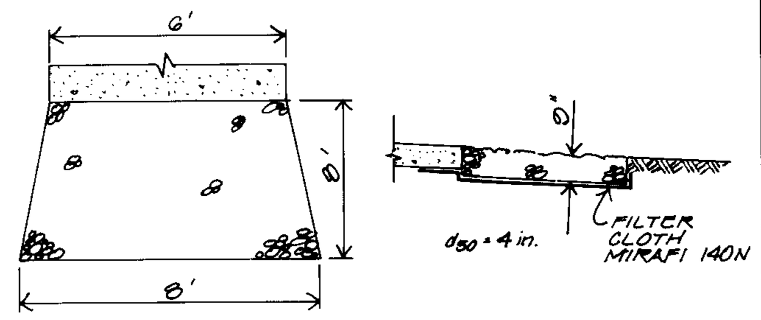
SANITARY PIPE SCHEDULE		
SIZE	TYPE	LENGTH (FT.)
4"		141
6"	———	73

WATER PIPE SCHEDULE		
SIZE	TYPE	LENGTH (FT.)
6"	———	61



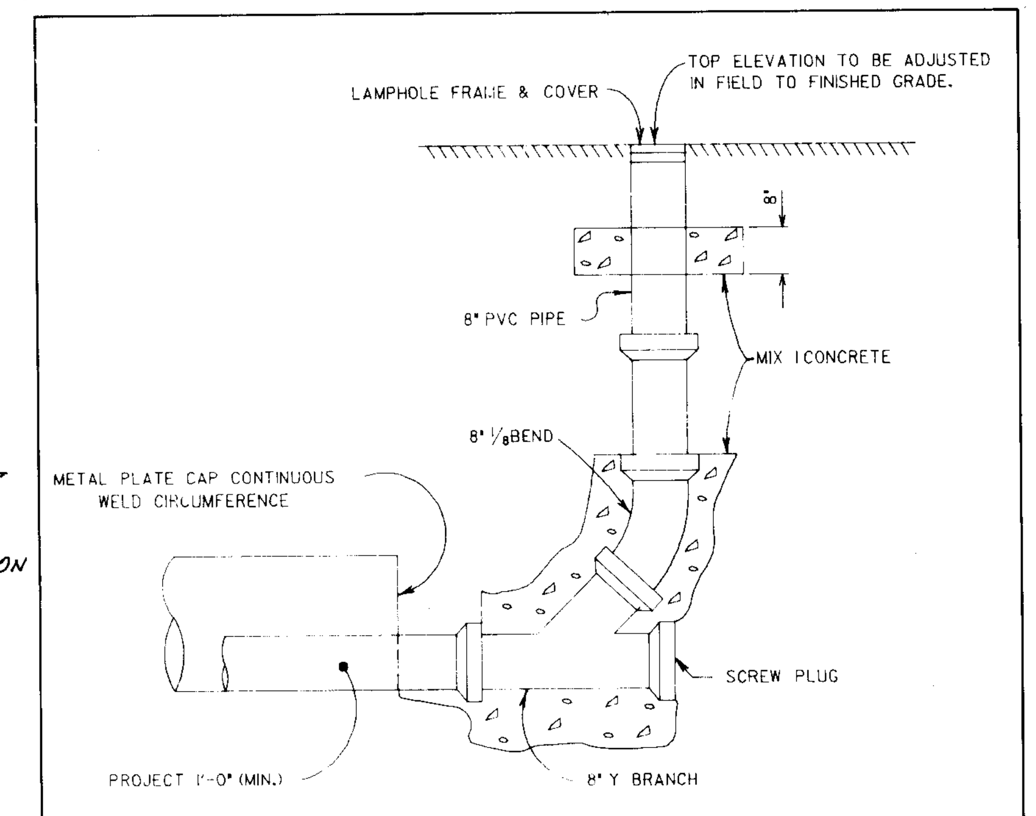
1. ALL SOD TO BE STAKED WITH ½" X 12" WOOD STAKES ON 24" CENTERS BOTH WAYS.
2. CONC. SHALL BE S.H.A. MIX NO. 2.

CONCRETE TRAINGULAR OPEN CHANNEL SECTION
AT EAST PROPERTY LINE
HOWARD COUNTY STANDARD G-6.11
NO SCALE

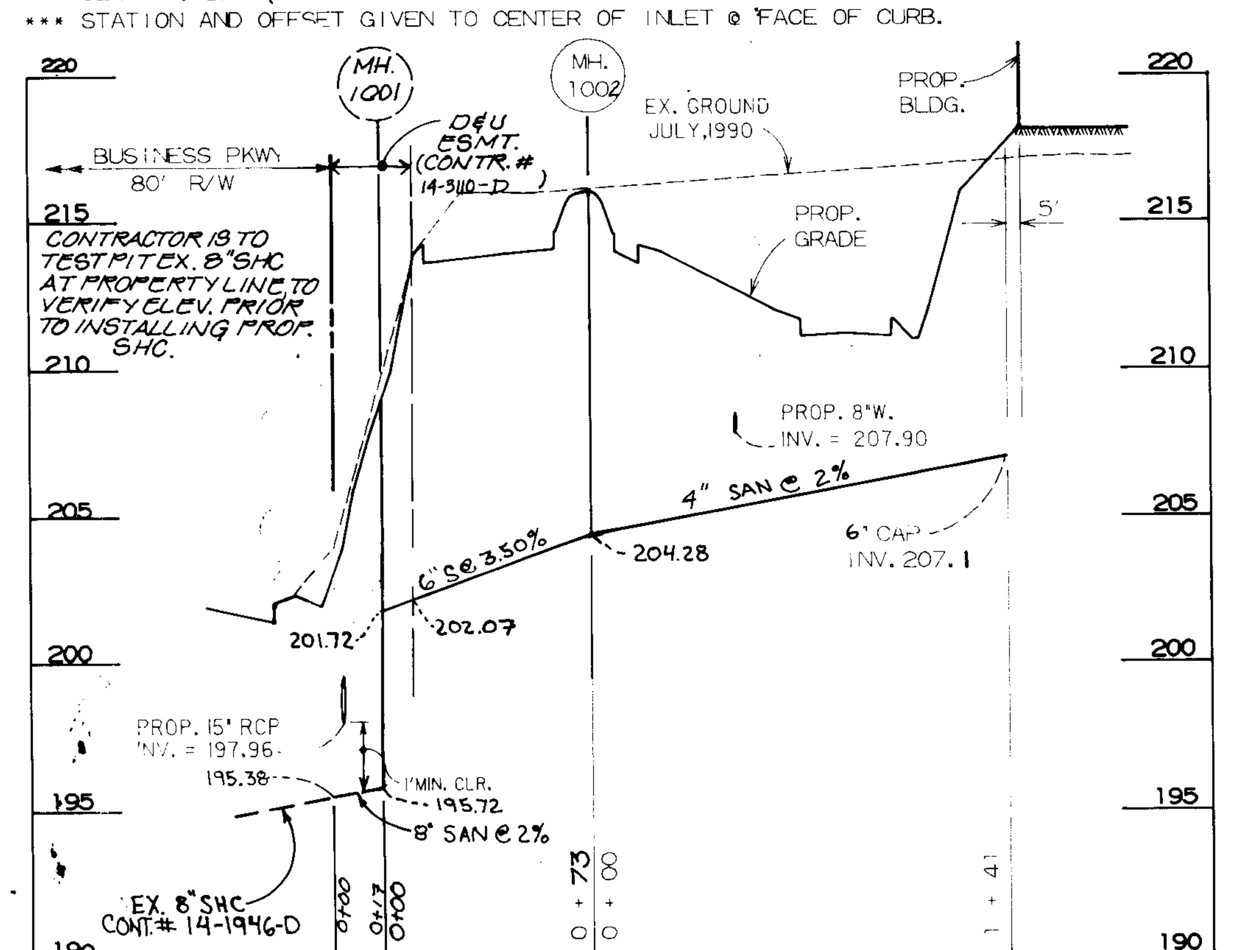


CHANNEL SECTION OUTLET STRUCTURE
NO SCALE

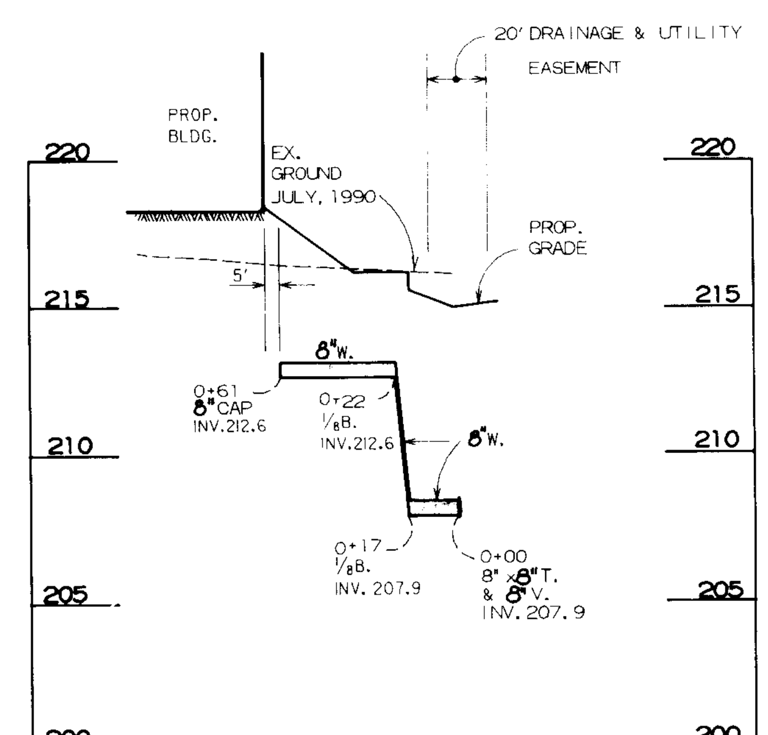
STORM DRAIN NOTES:
1. REFER TO HOWARD COUNTY DESIGN MANUAL, VOLUME IV - STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, AND AS ADMENDED.
2. A-5 INLETS ARE HOWARD COUNTY STANDARD SD-4.01
3. A-10 INLETS ARE HOWARD COUNTY STANDARD SD-4.02, SEE SILT TRAPPING DETAIL FOR I-3
4. MANHOLES ARE HOWARD COUNTY STANDARD G-5.02.
5. TYPE 'O' HEADWALL IS HOWARD COUNTY STANDARD SD-5.42.
6. S-COMBINATION INLETS ARE HOWARD COUNTY STANDARD SD-4.32



LATERAL CLEANOUT DETAIL
NOT TO SCALE



PRIVATE SEWER EXTENSION
SCALE: HORIZ.: 1" = 50'
VERT.: 1" = 5'



PRIVATE WATER EXTENSION
SCALE: HORIZ.: 1" = 50'
VERT.: 1" = 5'

AS-BUILT CERTIFICATION

[signature] 3.3.93
JAYKANT [illegible] # 19148 DATE

STATE OF MARYLAND — ROBERT HAROLD MARMON — REGISTERED PROFESSIONAL ENGINEER [seal and signature]

S-88-03 S-89-04
S-86-11 P-89-15
P-87-44 F-89-163
VP-86-46 F-90-103
GP-89-14 S-89-GD
SDP-91-54

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART	
PARCEL	STREET ADDRESS
C	6695 BUSINESS PARKWAY

SUBDIVISION NAME			SECT./AREA		LOT/PARCEL
MEADOWRIDGE BUSINESS PARK			NA		PARCEL ~ C
PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
9041-47	22,4	M-1	37,43	1st	6012
WATER CODE			SEWER CODE		
B01			2153000		

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
BALTIMORE, MD. 21204
(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY
6"W. TO 8"W. 11-8-91	G&O
6"S. TO 4"S. 11-8-91	G&O

UTILITY PROFILES
PARCEL C
MEADOWRIDGE BUSINESS PARK
ZONE M-1 HOWARD CO., MD.
1st ELECTION DISTRICT TAX / ZONE MAP 37

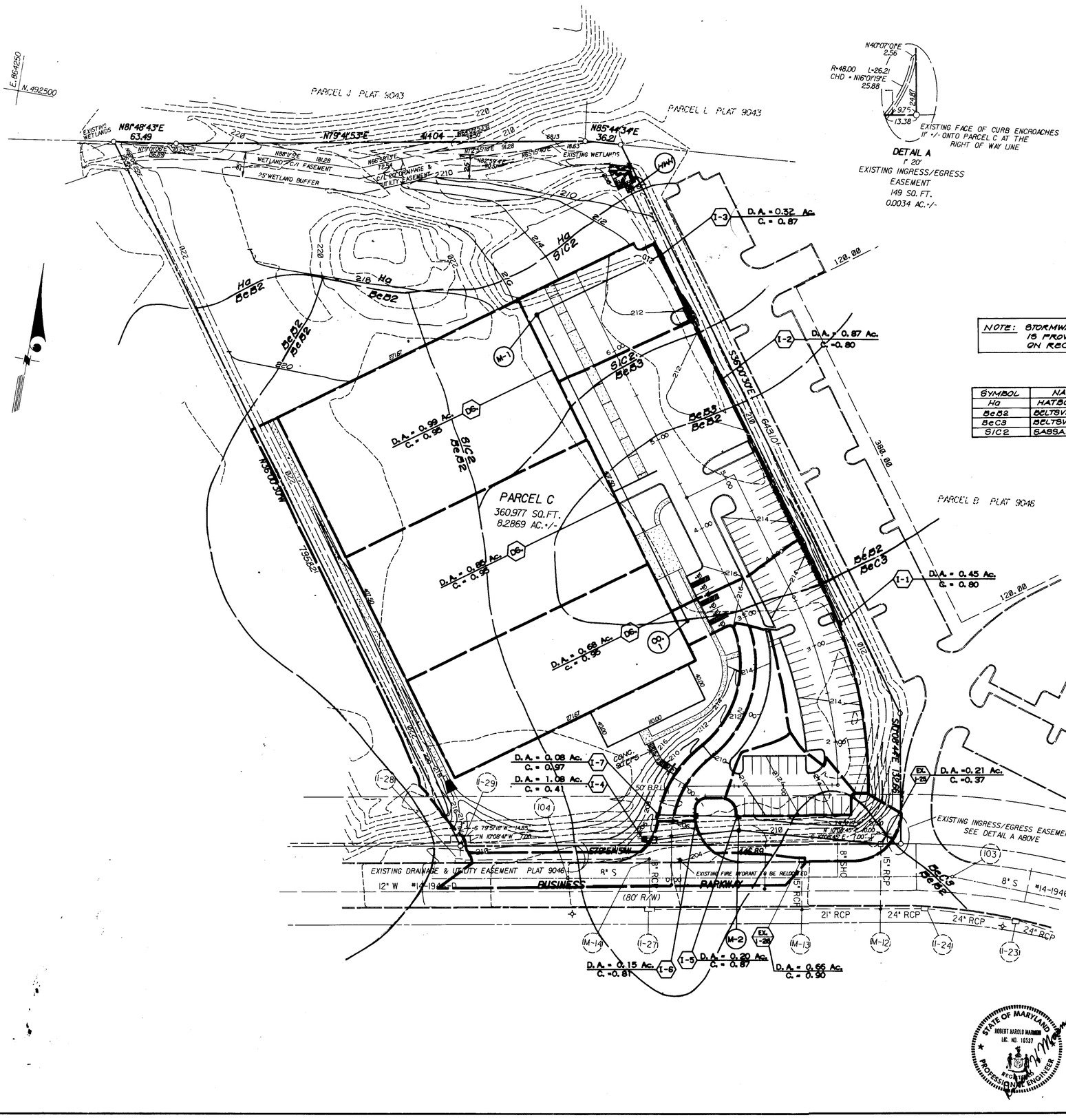
OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

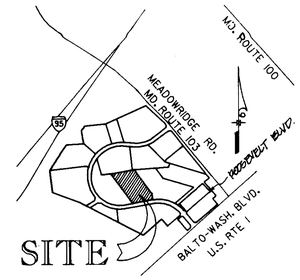
Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date 10/90
Scale AS NOTED
Drawn K.A.M.
Job 7739
Sheet 12
Of 13 Sheets

AS-BUILT SDP-91-54

WHEELING REPRODUCTIONS 523233





VICINITY MAP
SCALE: 1"=2000'

SYMBOL	NAME	CLASS	HYDRIC COMPONENTS
Ha	HATBORO	D	YES
BeB2	BELTSVILLE	C	YES
BeC3	BELTSVILLE	C	YES
SlC2	SASSAFRAS	B	NO

APPROVED: FOR PUBLIC WATER & PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER — DATE 6-19-91

APPROVED: FOR PUBLIC WATER, PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS & PUBLIC ROADS
HOWARD CO. DEPT. OF PUBLIC WORKS

DIRECTOR — DATE 6/13/91
CHIEF, BUREAU OF ENGINEERING — DATE 6/12/91

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

PLANNING DIRECTOR — DATE 6/26/91
CHIEF, DIV. OF COMMUNITY PLANNING & LAND DEVELOPMENT — DATE 6/20/91

SEDIMENT CONTROL AND POND CONSTRUCTION

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Howard Soil Conservation Service — Date

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S-86-11 P-89-15
P-87-14 F-89-163
VP-86-46 F-90-103
GP-89-14
SDP-91-54

BEFORE BEGINNING CONSTRUCTION, CONTACT MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

ADDRESS CHART		SUBDIVISION NAME		SECT./AREA		LOT/PARCEL
PARCEL	STREET ADDRESS	MEADOWRIDGE BUSINESS PARK		NA		PARCEL
C	6096 BUSINESS PARKWAY	PLAT NO. OR L/F	BLOCK NO.	ZONE	TAX/ZONE MAP	ELECT. DIST.	CENSUS TR.
		9041-97	22,4	M-1	37,43	1st	6012
		WATER CODE		SEWER CODE			
		B01		2153000			

ROBERT HAROLD MARMON
LIC. NO. 10537
STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS
GREENHORNE & O'MARA, INC.
113 WEST ROAD, SUITE 208
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(301)296-4100
ANNAPOLIS, MD ATLANTA, GA AURORA, CO CULPEPER, VA EXPORT, PA FAIRFAX, VA
GREENBELT, MD MANASSAS, VA ROCKVILLE, MD RALEIGH, NC TAMPA, FL

REVISIONS	BY

DRAINAGE AREA MAP
PARCEL C
MEADOWRIDGE BUSINESS PARK
HOWARD CO., MD.
TAX / ZONE MAP 37
ZONE M-1
1st ELECTION DISTRICT

OWNER/DEVELOPER
MOORE BUSINESS FORMS
2215 SANDERS ROAD, SUITE 400
NORTHBROOK, ILLINOIS 60062
PH. (708) 480-3000

Ruck, Pate & Associates, Ltd.
Architecture
257 East Main Street
Barrington, Illinois 60010

Date	OCT. 1990
Scale	1"=50'
Drawn	K.R.M.
Job	7739
Sheet	13
Of	13 Sheets

SDP-91-54

WHITELING REPRODUCTIONS 32333