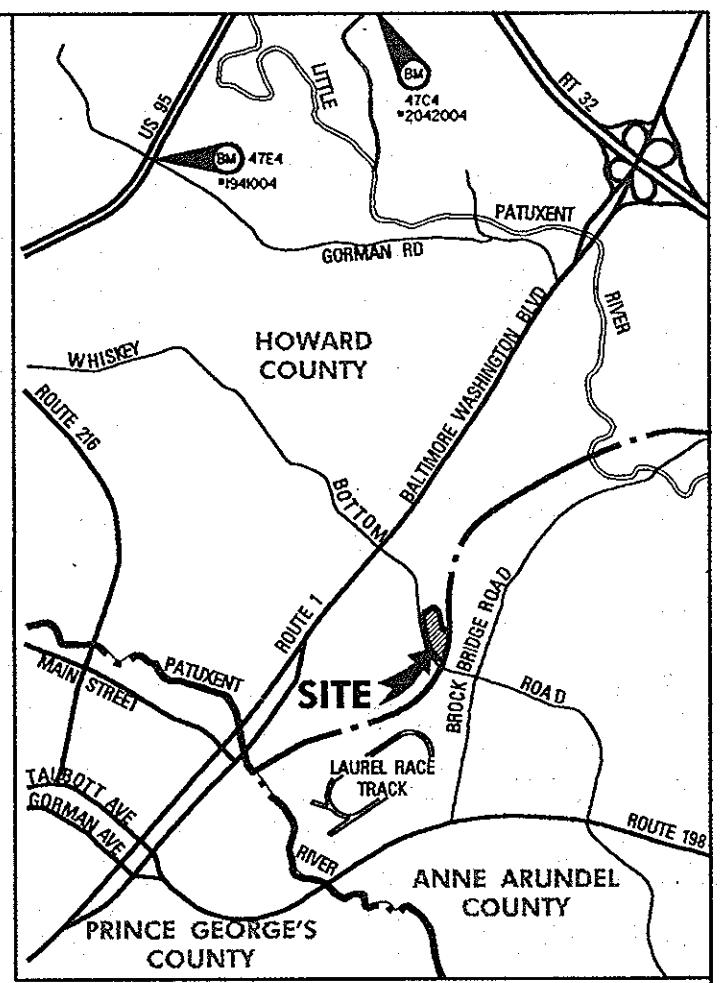


Sheet Index

SHEET	DESCRIPTION
1	COVER SHEET
2	SITE DEVELOPMENT PLAN
3	DEMOLITION PLAN & COURTYARD DETAIL
4	DRAINAGE AREA MAPS
5	STORMCEPTOR DETAILS
6	STORM WATER MANAGEMENT & STORM DRAIN PLAN, PROFILES & DETAILS
7	EROSION & SEDIMENT CONTROL PLAN
8	EROSION & SEDIMENT CONTROL DETAILS
9	EROSION & SEDIMENT CONTROL DETAILS
10	SITE DETAILS
11	SITE DETAILS
12	SANITARY SEWER PLAN
13	LANDSCAPE PLAN
14	FOREST STAND-DELINEATION PLAN
15	FOREST STAND-DELINEATION PLAN
16	FOREST CONSERVATION PLAN
17	FOREST CONSERVATION PLAN
18	STORM WATER MANAGEMENT DETAILS AND SPECIFICATIONS

Site Development Plan for School for Contemporary Education Building Addition Howard County, Maryland

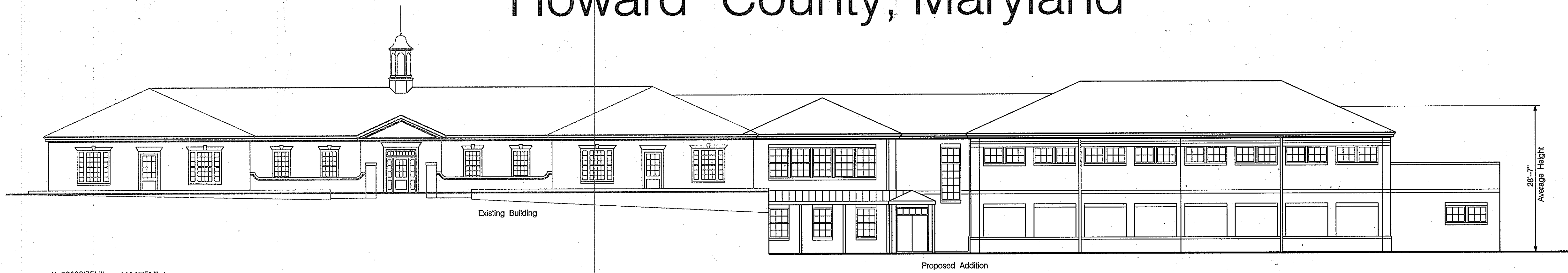


LOCATION MAP
SCALE: 1" = 400'

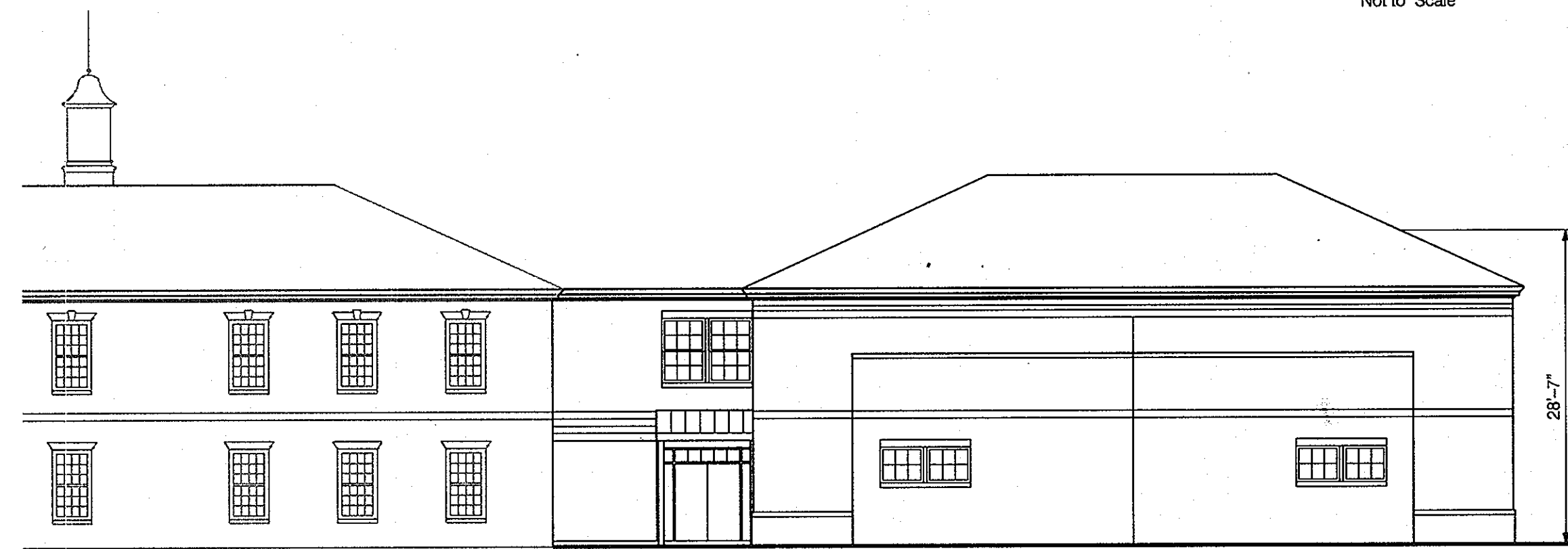
BENCHMARK
HORIZONTAL (NAD 83) AND VERTICAL (NVD 29)
CONTROL BASED UPON HOWARD COUNTY TRAVERSE
POINTS 47E4 & 47C4

N 18328.2341, E 413156.2634
CONTROL STATION 47E4 (1841004)
ELEVATION = 338.320
CONCRETE MONUMENT AT NORTHEAST CORNER OF ROUTE
88 AND GORMAN ROAD, ONE FOOT NORTH OF NORTH
EDGE OF CONCRETE WALK, 21' EAST OF NORTHEAST
CORNER OF BRIDGE, 0.2' BELOW SURFACE.

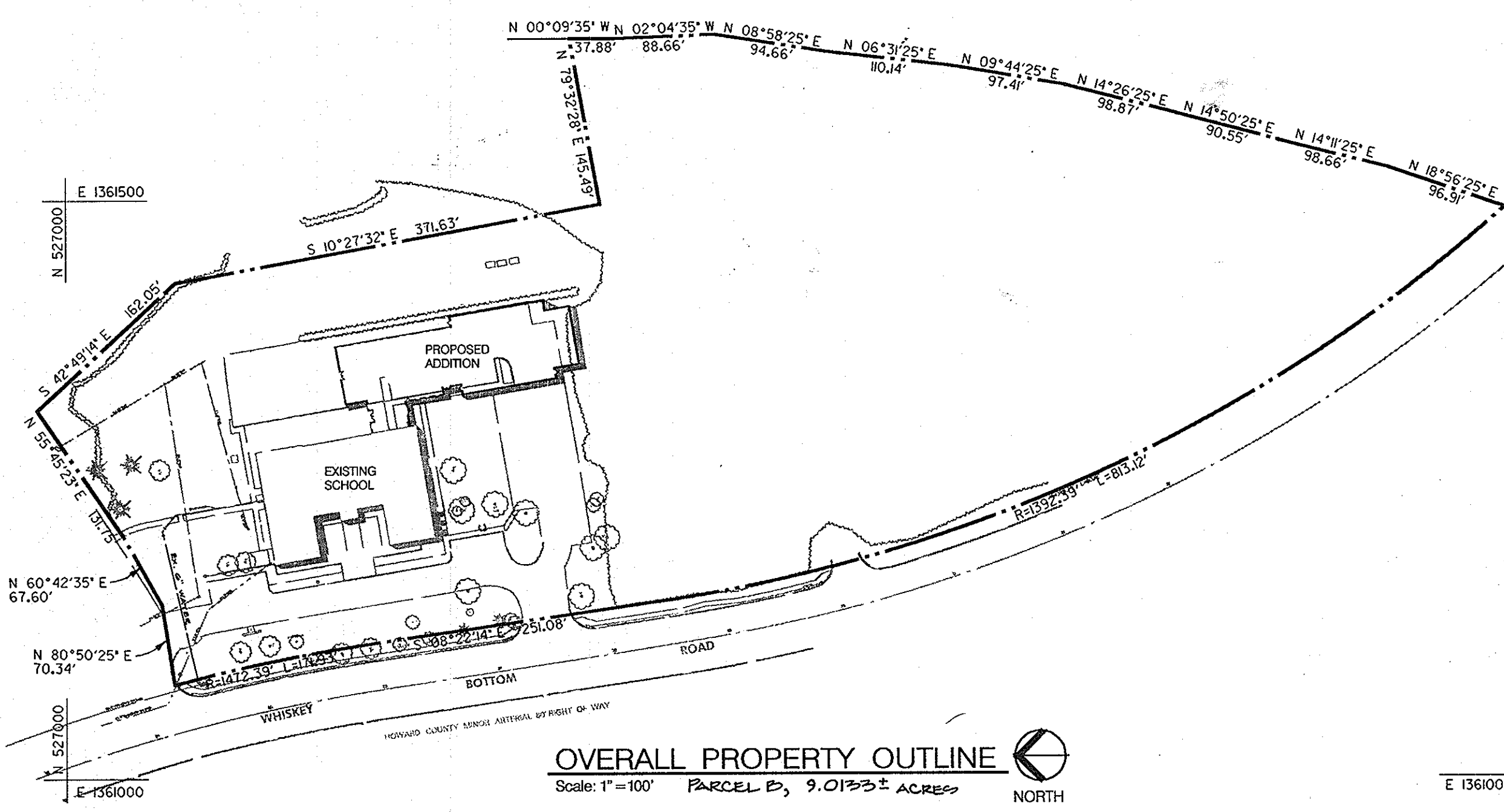
N 16484.3288, E 414949.2600
CONTROL STATION 47C4 (2042004)
ELEVATION = 288.159
STAMPED CONCRETE MONUMENT AT NORTHEAST CORNER
OF VOLLMERHAUSEN ROAD AND SAUSAGE-GULFORD ROAD,
2.18' EAST OF CROSS CUT IN TOP OF CURB OF NORTHEAST
CORNER OF SAUSAGE-GULFORD ROAD, 70.63' SOUTH OF
G.S. & E. POLE No. 36654.



West Elevation
Not to Scale



South Elevation
Not to Scale



OVERALL PROPERTY OUTLINE
Scale: 1" = 100' PARCEL B, 9.0133± ACRES

Site Analysis Data Chart

1. General Site Data

a. Present Zoning: M-2

b. Applicable DPZ File References: SDP 78-93, WP-97-01, WP-90-60, S-89-94, F-91-34, AA-96-32

c. Proposed Use of Site or Structure(s): School Expansion (Elementary & Middle)

d. Proposed Water and Sewer Systems: X Public - Private

e. Water and Sewer contract number 24-3146D

2. Area Tabulation

a. Total Project Area: 9.0133 Acres
(Indicate by Section and Area As Shown on Final Plat or As Shown on Deed)

b. Net Area of Site: 9.0133 Acres
(Indicate by Section and Area As Shown on Final Plat)

c. Area of This Plan Submission: 4.5 Acres

d. Limit of Disturbed Area: 2.1 Acres

e. Building Coverage of Site: 0.57 Acres and 0.6 % of Gross Area (Proposed)

4. Open Space Data: N/A

5. Parking Space Data

a. Floor Space on Each Level per Building(s) per Use: N/A First Floor
N/A Second Floor

b. Number of Parking Spaces Required by Zoning Regulations: 1 per 6 students = 120 students = 20 spaces

c. Total Number of Parking Spaces Provided On-Site: 72

d. Number of Handicapped Parking Spaces Provided: 3

CHURCH ASSEMBLY USE - 5525 SF X 10 SPACES PER 1000 SF = 56 SPACES
THE APPROVED USE OF THE CHURCH IS ONLY ALLOWED WHEN SCHOOL IS NOT IN SESSION.

General Notes

- All construction shall be performed in accordance with the latest standards and specifications of Howard County, plus MSHA standards and specifications if applicable or as specified.
- Approximate location of existing utilities are shown from best available information. The contractor shall take all necessary precautions to protect the existing utilities and maintain uninterrupted service. Any damage incurred due to contractor's operation shall be repaired immediately at the contractor's expense.
- The contractor shall test pit existing utilities at least five (5) days before starting work shown on these drawings to verify their location and elevation. The contractor shall notify the engineer immediately if location of utilities is other than shown.
- The contractor shall notify 'Miss Utility' at 1-800-257-7777 at least 48 hours prior to any excavation work being done, and shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work.
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs be in place prior to the placement of any asphalt.
- Any damage caused by the Contractor to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be at the Contractor's expense.
- The existing topography was based on field run survey by DMW, Inc. on November 6, 1996, and supplemented by topography taken from SDP 78-93.
- All hydraulic data is for the 10-year storm unless otherwise noted.
- The subsurface exploration and geotechnical engineering analysis for this project was completed by Hillis Carnes Engineering Associates, Inc. in August 1996.
- All fill areas shall be compacted to a minimum of 95% of the maximum dry density as determined and verified in accordance with AASHTO T-180.
- All plan dimensions are to face of curb unless otherwise noted.
- The coordinates shown hereon are based upon the Howard County geodetic control which is based upon the Maryland State plane coordination system. Howard County monument nos. 47C4 and 47E4 were used for this project.
- Storm water management quantity control provided in part by dry facility and balance by payment of fee-in-lieu. Water quality provided by Stormceptor. Facilities are private and will be maintained by the owner.
- Public water to be utilized. (Contract 24-3146-D, main Patuxent Drainage Area)
- Public sewer to be utilized. (Contract 24-3146-D, main Patuxent Drainage Area)
- All existing utilities are based solely on available records.
- There is no floodplain on this site.
- The wetlands delineation shown on this plan are as they are represented on plat 10207
- No traffic study is required for this project.
- The following waivers have been granted:
Design Manual Volume One, Sections 4.11.D.2, 4.11.D.8, 5.2.5.J, 5.2.6.F, 5.2.7.F.1 and 5.2.7.F.3. Approved on February 20, 1997.
Howard County Subdivision and Land Development Regulations Section 16.119 (f)(2) WP-97-81, School For Contemporary Education. Approved February 26, 1997 subject to: Access point shall be only for buses and trash trucks entering the site; All vehicles shall exit from either of two existing driveways.
- Fee-in-Lieu of providing stormwater management as per 5.2.3.A.3 of the Design Manual, Volume One, granted February 20, 1997.
- PLAN IS SUBJECT TO BA CASE 8001N WHICH WAS APPROVED MARCH 11, 1999 WITH FOLLOWING CONDITIONS:
1. THE VARIANCE SHALL APPLY ONLY TO THE PARKING BEING REQUESTED AND NOT TO ANY OTHER USE OR STRUCTURE ON THE PROPERTY.
2. THE PETITIONER SHALL ERECT SIGNS TO REGULATE THE ONE WAY TRAFFIC ON THE DRIVEWAY.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Richard Blood 6/10/97
CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blood 6/12/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

James L. Kite 6/13/97
DIRECTOR DATE

Date	No.	Revision Description
6-10-97		ADDED NOTE TO GEN. NOTES
12-3-13		ADDED TO NOTE 5b SITE ANALYSIS DATA CHART

School for Contemporary Education Building Addition

Howard County, Maryland

OWNER / DEVELOPER
School For Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723

DMW
Duff-McCune-Walzer, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax 296-4705

A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals

4-10-97
Date

Professional Engineer Number: 10207

SECTION NAME	SOUTH/LAND CORPORATION PROPERTIES	SECTION AREA	BY/REVISED #	Parcel 433, Par 'B'
MAP OR L.P.	10207	5	M-2	50
WATER CODE				6TH
				6089.03

TITLE

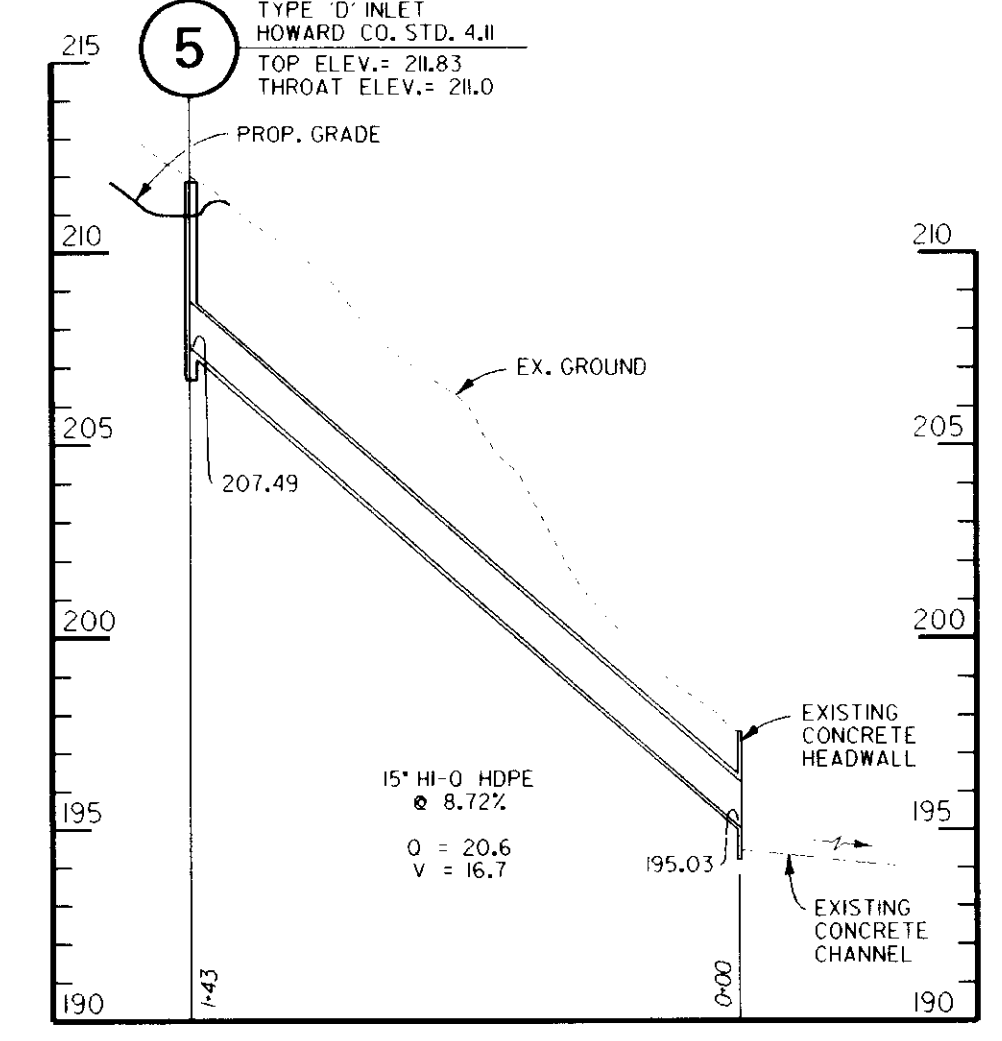
COVER SHEET

Des. By	MM	Scale	As Shown	Proj. No.	96065
Dm By	TPC, MSS	Date	1-10-97		
Chk By	MK	Approved			

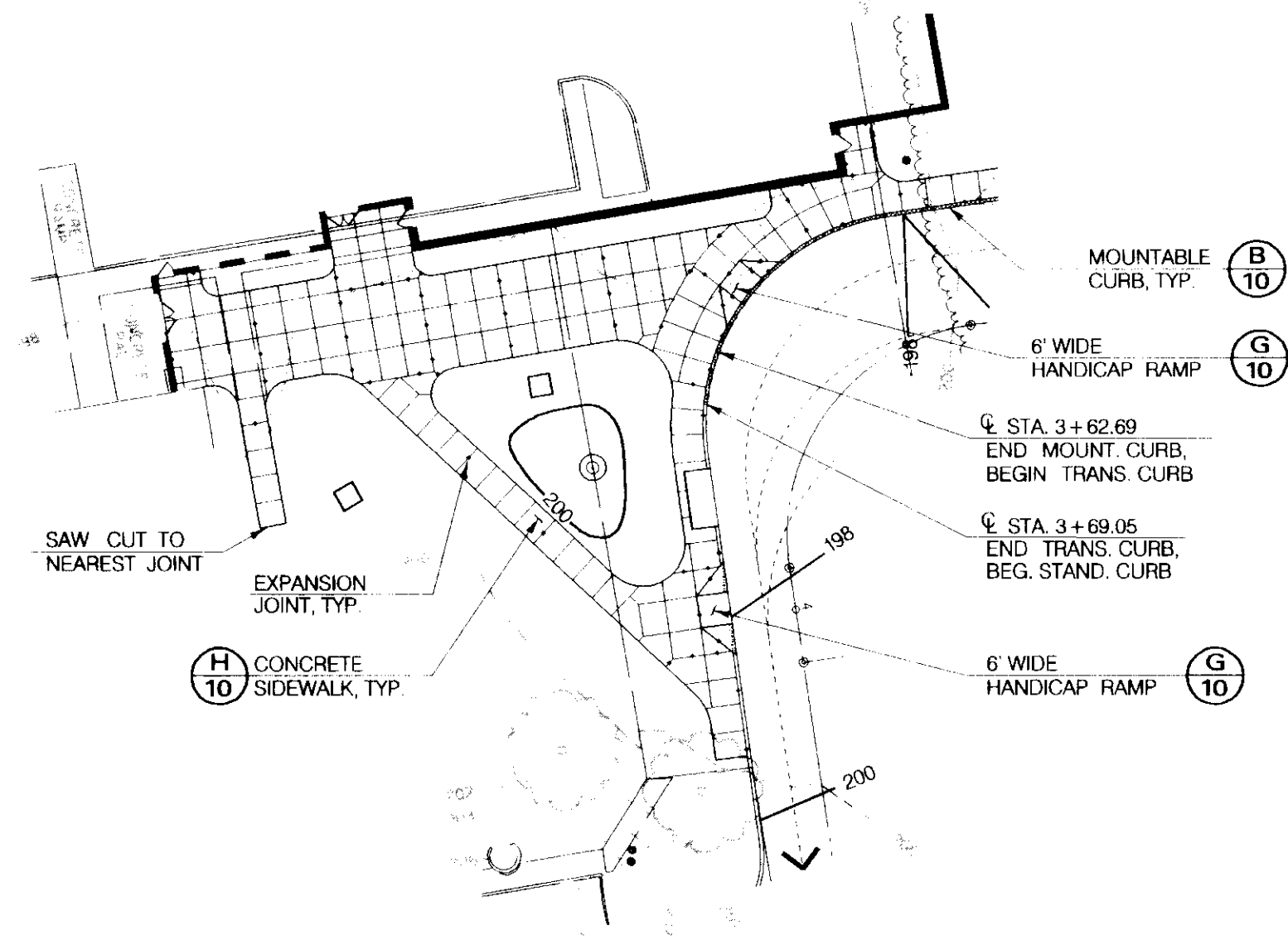
1 of 16

LEGEND

- 588 EXISTING CONTOURS
- 590 PROPOSED CONTOURS
- PROPOSED STORM DRAIN
- PROPOSED SANITARY SEWER
- PROPOSED WATER MAIN
- PROPOSED VALVE & REDUCER
- PROPOSED FIRE HYDRANT
- PROPOSED TRANSITION CURB
- PROPOSED MOUNTABLE CURB
- PROPOSED CURB & GUTTER
- PROPOSED STANDARD BARRIER CURB
- WEDGE COURSE PAVING
- LIGHT DUTY PAVING (COUNTY PAVING SECTION P-2)
- HEAVY DUTY PAVING (MODIFIED COUNTY PAVING SECTION P-3 PER GEOTECHNICAL REPORT)
- EXISTING TREE TO BE REMOVED
- V.I. & E.R. VEHICULAR INGRESS & EGRESS RESTRICTED
- PROPOSED LIGHT POLE
- EXISTING SPOT ELEVATIONS (TO MATCH EXISTING CURB OR PAVEMENT, TYPICAL)
- PROPOSED SPOT ELEVATIONS

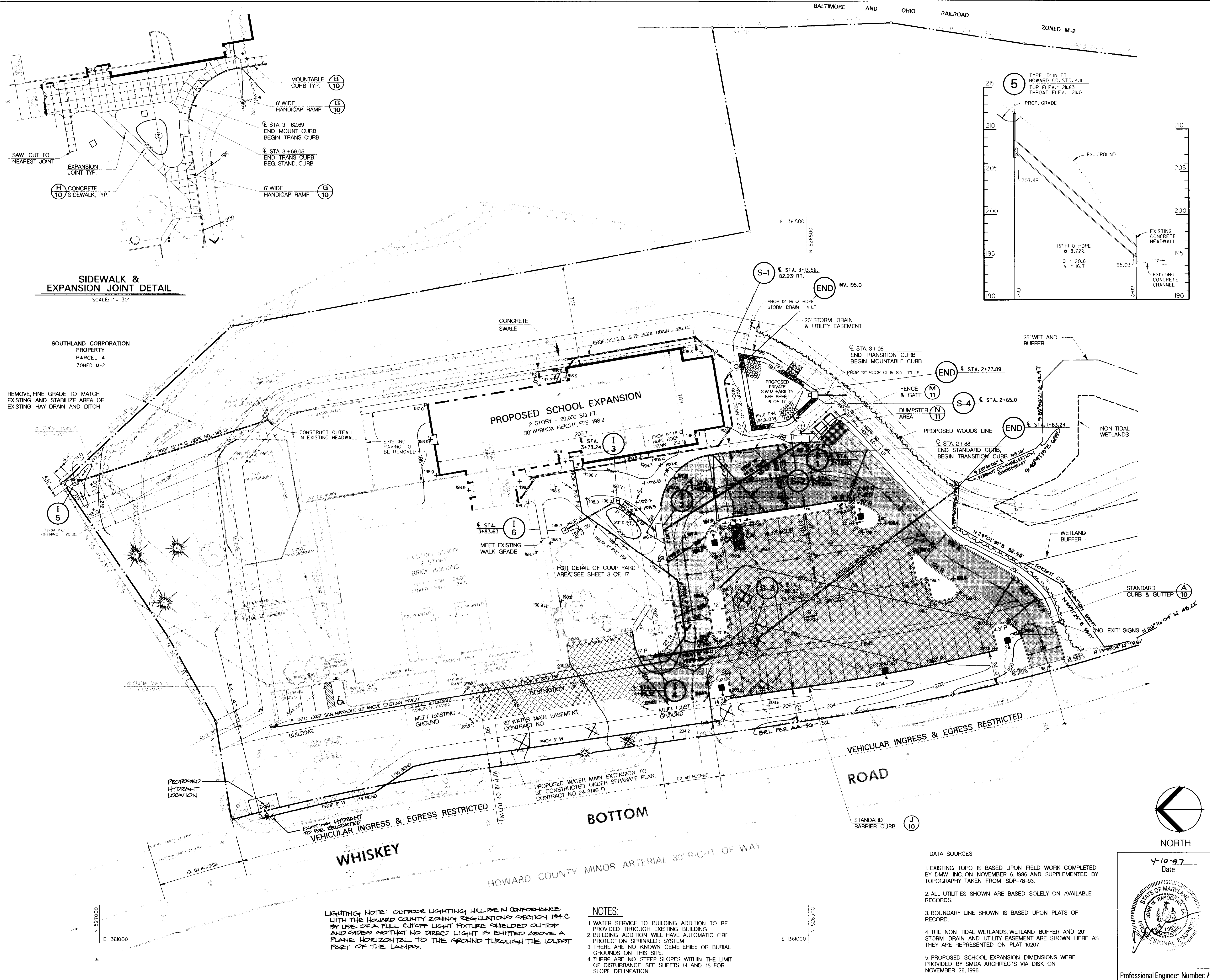


SIDEWALK & EXPANSION JOINT DETAIL
SCALE: 1" = 30'



SOUTHLAND CORPORATION
PROPERTY
PARCEL A
ZONED M-2

REMOVE FINE GRADE TO MATCH
EXISTING AND STABILIZE AREA OF
EXISTING HAY DRAIN AND DITCH



APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Michael Blum 6/10/97
CHIEF DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blum 6/12/97
CHIEF DIVISION OF LAND DEVELOPMENT DATE

James S. Hester 6/13/97
DIRECTOR DATE

Date	No.	Revision Description
11/19/97	2	WALK & LANDSCAPE REVISION

School for Contemporary Education Building Addition
Howard County, Maryland

OWNER / DEVELOPER
School For Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723



Draft-McCune-Walker, Inc.
300 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 286-3333
Fax 296-4706

A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals

SUBDIVISION NAME	SECTION AREA	SECTION N/A	OF PARCELS
SOUTHLAND CORPORATION PROPERTIES	1.1	1.1	1
PARCEL 433, PAR 1B	10207	5	50
WATER CODE	M-2	50	6069.03

SITE DEVELOPMENT PLAN

Des By	MM	Scale	1" = 30'	Proj. No.	96065
Drn By	TPC, MSS	Date	1-10-97	2 of 16	
Chk By	MK	Approved			

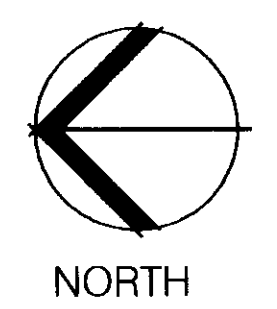
4-10-97
Date

Professional Engineer Number: 10524

- DATA SOURCES:**
- EXISTING TOPO IS BASED UPON FIELD WORK COMPLETED BY DMW INC. ON NOVEMBER 6, 1996 AND SUPPLEMENTED BY TOPOGRAPHY TAKEN FROM SDP-78-93
 - ALL UTILITIES SHOWN ARE BASED SOLELY ON AVAILABLE RECORDS.
 - BOUNDARY LINE SHOWN IS BASED UPON PLATS OF RECORD.
 - THE NON TIDAL WETLANDS WETLAND BUFFER AND 20' STORM DRAIN AND UTILITY EASEMENT ARE SHOWN HERE AS THEY ARE REPRESENTED ON PLAT 10207.
 - PROPOSED SCHOOL EXPANSION DIMENSIONS WERE PROVIDED BY SMDA ARCHITECTS VIA DISK ON NOVEMBER 26, 1996.

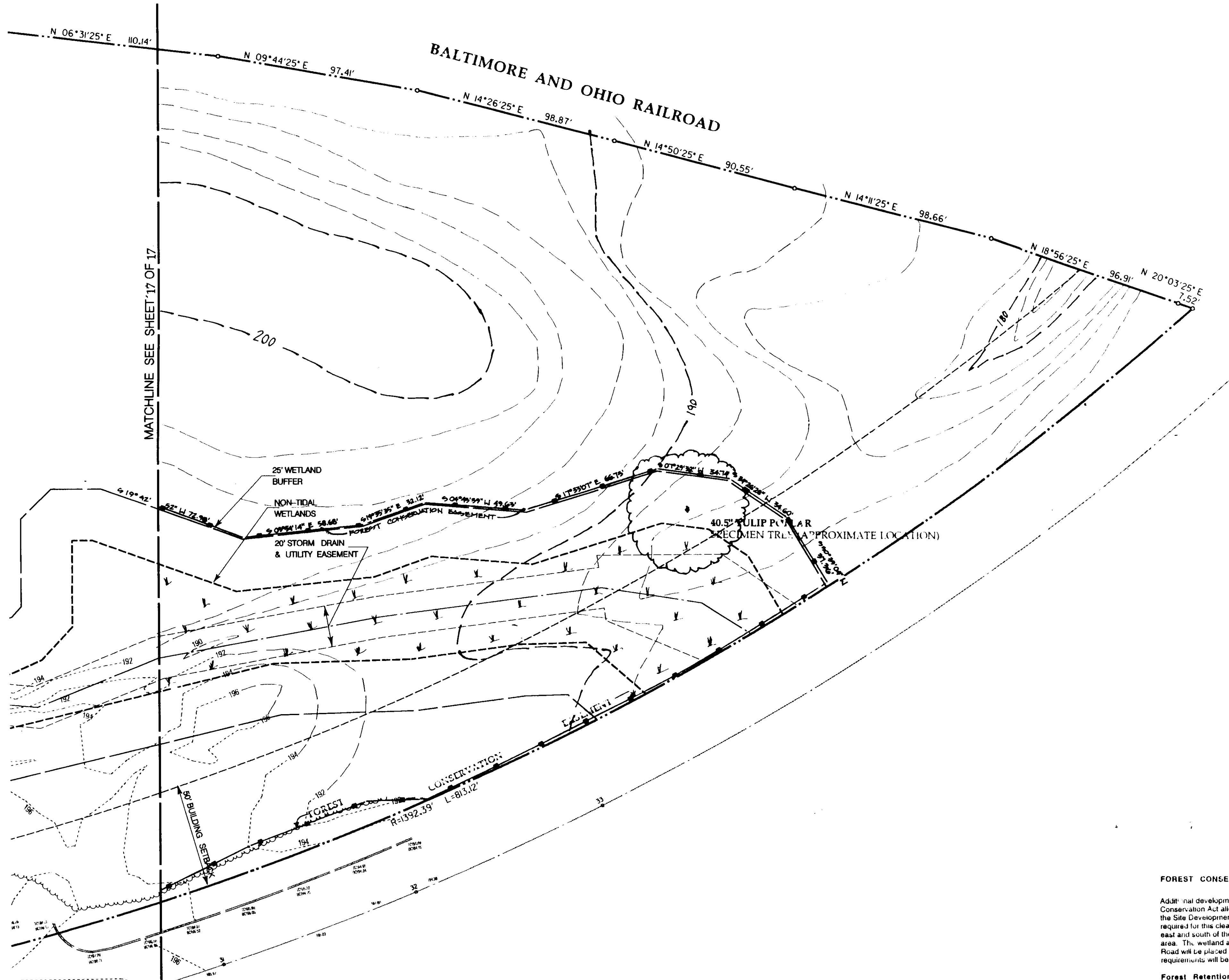
- NOTES:**
- WATER SERVICE TO BUILDING ADDITION TO BE PROVIDED THROUGH EXISTING BUILDING PROTECTION SPRINKLER SYSTEM
 - THERE ARE NO KNOWN CEMETERIES OR BURIAL GROUNDS ON THIS SITE.
 - THERE ARE NO STEEP SLOPES WITHIN THE LIMIT OF DISTURBANCE. SEE SHEETS 14 AND 15 FOR SLOPE DELINEATION.

LIGHTING NOTE: OUTDOOR LIGHTING WILL BE IN CONFORMANCE WITH THE HOWARD COUNTY ZONING REGULATIONS SECTION 194.C BY USE OF A FULL CUT-OFF LIGHT FIXTURES SHIELDED ON TOP AND SCREENS THAT NO DIRECT LIGHT IS EMITTED ABOVE A PLANE HORIZONTAL TO THE GROUND THROUGH THE LOWEST PART OF THE LAMPS.



N 327000
E 1361000

N 526500
E 1361000



HOWARD COUNTY
FOREST CONSERVATION WORKSHEET

ACRES
(100 ACRES)

I. BASIC SITE DATA

GROSS SITE AREA	9.0
AREA WITHIN 100-FOOT BUFFER	0.0
AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL (IF APPLICABLE)	0.0
NET TRACT AREA	9.0
LAND USE CATEGORIES (R, RD, R/R, R/S, C, E, O, U)	C/U/O

II. INFORMATION FOR CALCULATIONS

A. NET TRACT AREA	9.0
B. REFORESTATION THRESHOLD (15% x A)	1.4
C. AFFORESTATION THRESHOLD (15% x A)	1.4
D. EXISTING FOREST ON NET TRACT AREA	5.7
E. FOREST AREAS TO BE CLEARED	4.3
F. FOREST AREAS TO BE RETAINED	1.4

III. DETERMINING REQUIREMENTS, AFFORESTATION OR REFORESTATION

1. Reforestation

If existing forest area equal or exceed the reforestation minimum at D, the total of E and F is more than B, and the clearing of forest areas is proposed, reforestation requirements are applicable.

GO TO SECTION IV

IV. REFORESTATION CALCULATIONS

A. NET TRACT AREA	9.0
B. REFORESTATION THRESHOLD (15% x A)	1.4
D. EXISTING FOREST ON NET TRACT AREA	5.7
E. FOREST AREAS TO BE CLEARED	4.3
F. FOREST AREAS TO BE RETAINED	1.4
G. FOREST AREAS CLEARED ABOVE REFORESTATION THRESHOLD	1.0
H. FOREST AREAS CLEARED BELOW REFORESTATION THRESHOLD	0.0
I. FOREST AREAS RETAINED ABOVE REFORESTATION THRESHOLD	0.25

Select the alternative that applies:

1. Clearing above the threshold only

If forest areas to be retained equal or are greater than the reforestation threshold (if F equals or is greater than B), the following calculations apply:

REFORESTATION FOR CLEARING ABOVE THRESHOLD	1.0
G x I / 4	0.25
CREDIT FOR FOREST AREAS RETAINED ABOVE THRESHOLD	0.25
TOTAL REFORESTATION CREDIT	0.0
TOTAL REFORESTATION REQUIRED	0.0

If the total reforestation requirement is equal to or less than 0, no reforestation is required.

DATA SOURCES:

- EXISTING TOPO FIELD WORK WAS COMPLETED BY DMW INC. ON 11-6-96. TOPO SOUTH & EAST OF DRAINAGE & UTILITY EASEMENT WAS OBTAINED FROM SDP 78-93.
- ALL UTILITIES SHOWN ARE BASED SOLELY ON FIELD LOCATION.
- BOUNDARY LINE SHOWN IS BASED UPON DEEDS AND PLATS OF RECORD AND DO NOT REPRESENT AN ACCURATE FIELD RUN SURVEY.
- THE NON-TIDAL WETLANDS, WETLAND BUFFER AND 20' STORM DRAIN AND UTILITY EASEMENT ARE SHOWN HERE AS THEY ARE REPRESENTED ON PLAT 10207.
- PROPOSED SCHOOL EXPANSION FOOTPRINT WAS OBTAINED FROM SMDA ARCHITECTS ON 11-26-96 VIA FLOPPY DISK.

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Michael Deane 6/12/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blood 6/12/97
DIRECTOR, DIVISION OF LAND DEVELOPMENT DATE

James S. Suter 6/12/97
DIRECTOR DATE

FOREST CONSERVATION NARRATIVE

Additional development at the School for Contemporary Education under the current Forest Conservation Act allows the clearing of 3.5 acres of forest with no mitigation requirement. Based on the Site Development Plan, approximately 1.0 acre of forest clearing is anticipated. No mitigation is required for this clearing. At this time, there are no plans for development or subdivision of the area east and south of the 20' storm drain and utility easement at the edge of the proposed development area. The wetland and buffer and a small pocket of forest between the buffer and Whiskey Bottom Road will be placed within a Forest Conservation Easement (1.4 acres). Future Forest Conservation requirements will be determined when future development or subdivision is proposed.

Forest Retention

Tree retention and protection areas will be delineated with fencing and/or temporary signage as appropriate (see Tree Protection Fence and Temporary Signage Details) prior to the beginning of any construction activity. Fencing shall not be considered installed correctly until reviewed by a landscape architect or qualified natural resource professional familiar with the plan. Attachment of signs to trees is prohibited.

Preconstruction Meeting/ Construction Period Practices

After tree retention areas have been fenced and before construction begins, a preconstruction meeting shall be held. The principal contractor, engineer, Howard County inspectors and a qualified foreman familiar with the plan shall be present. All items pertaining to forest retention, tree preservation, and construction period practices shall be discussed.

Any changes to the plan due to on-site conditions must be approved by Howard County Planning and Zoning.

No grading, excavation, utility placement, sediment and erosion control activities, or vehicular traffic will occur within forest retention areas.

Storage of equipment and materials shall not be permitted in the forest retention areas.

There will be no burial or disposal of discarded material on site within the retention area.

There will be no open burning within 100 feet of woodlands.

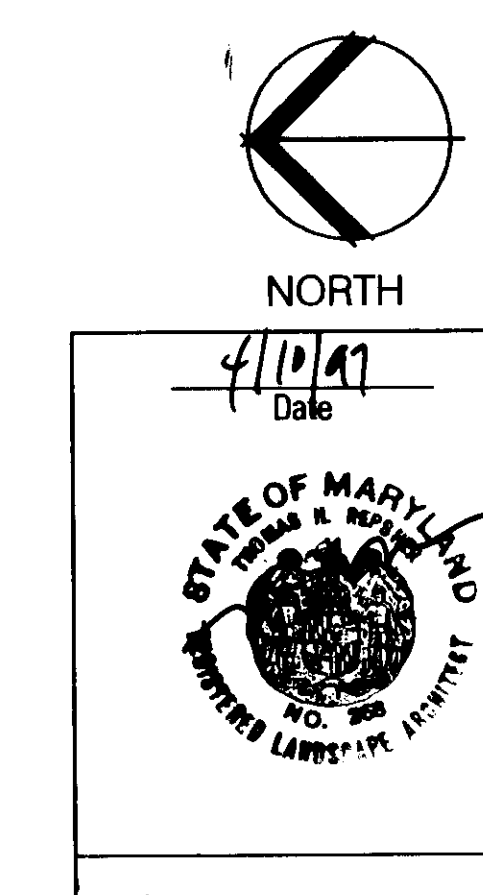
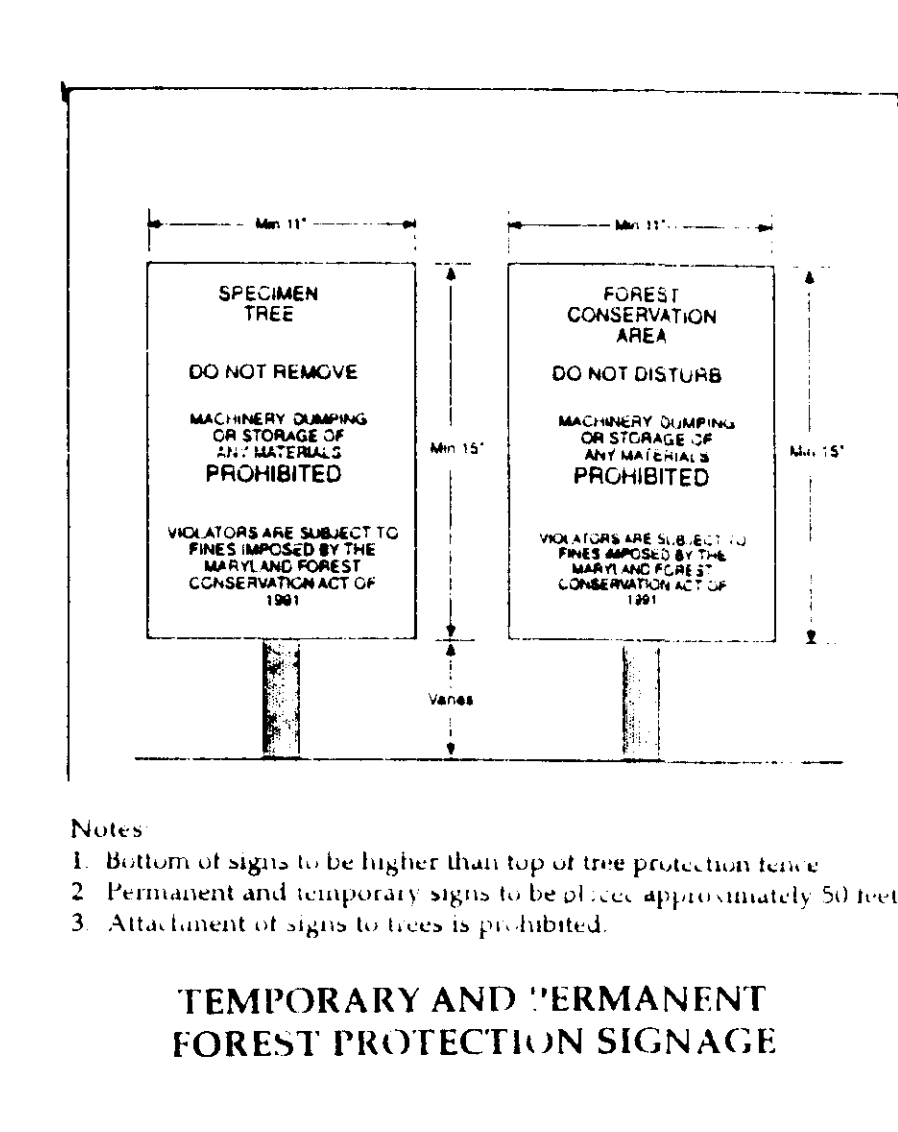
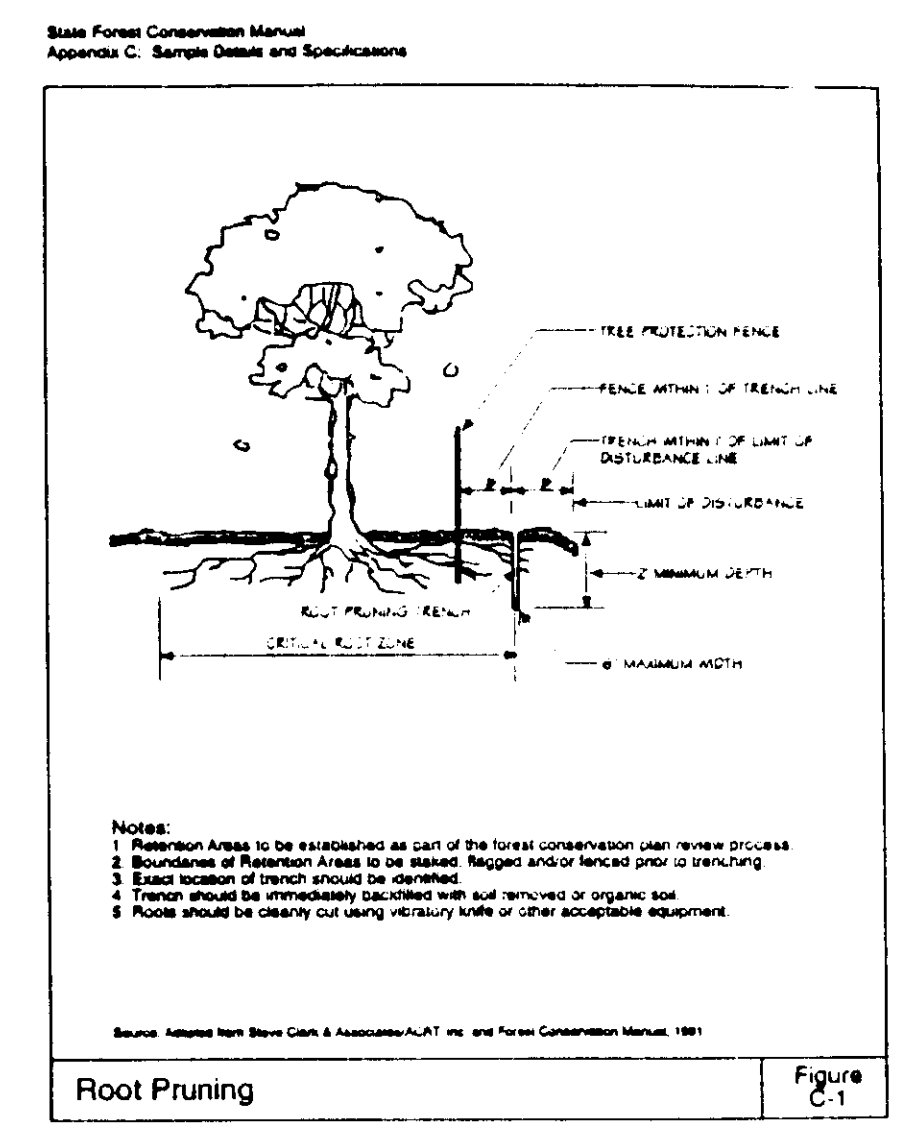
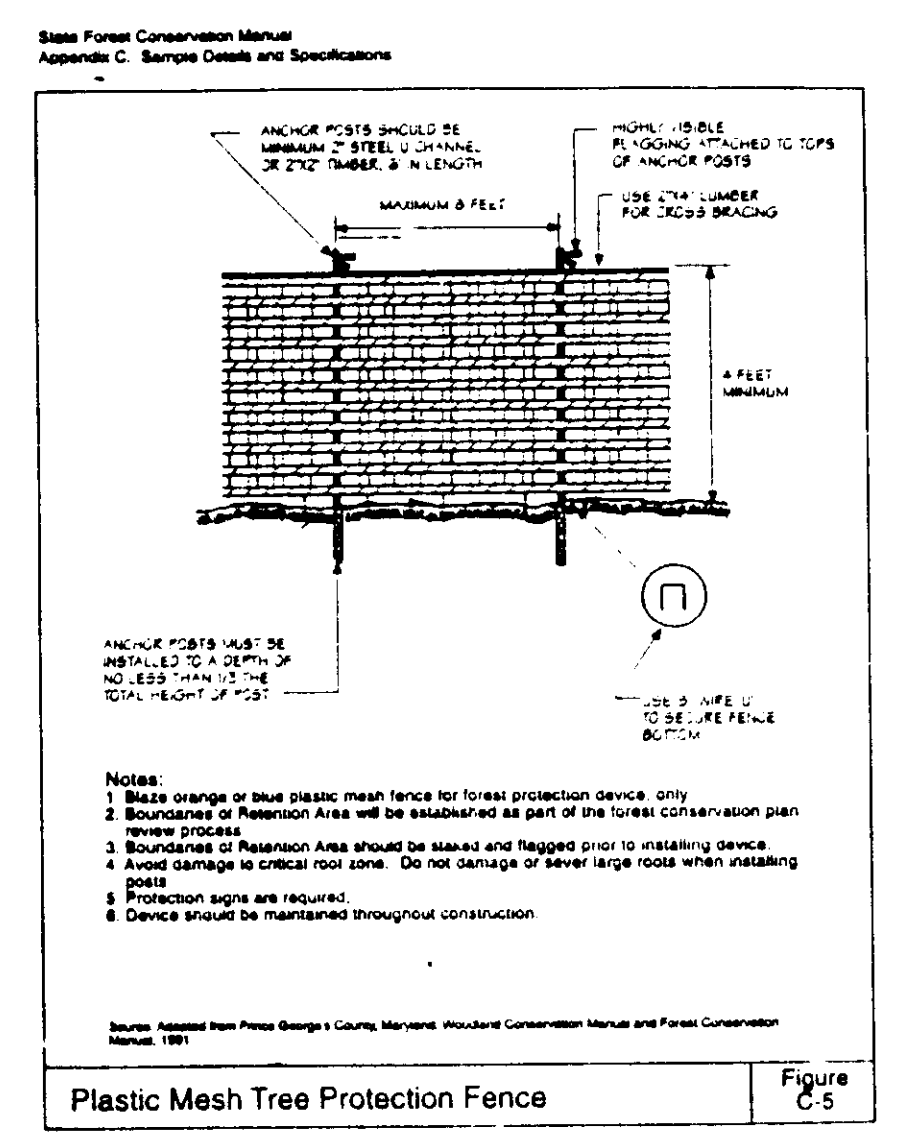
To quarry structures including, but not limited to construction trailers, sanitary facilities, etc. shall not be placed within the forest retention areas.

Employee parking shall not be permitted in the forest retention areas.

LONG TERM FOREST PROTECTION

An easement will be created for the forest conservation area. The easement will require that the removal of any trees (except those which pose a safety hazard) must be approved by Howard County Planning and Zoning. Permanent forest protection signage will be placed along the perimeter of the forest conservation easement.

DEGRADATION OR DESTRUCTION OF THE FOREST CONSERVATION AREA MAY RESULT IN MONETARY PENALTIES AND/OR MITIGATION TO RESTORE THE AREA A QUALITY ACCEPTABLE TO THE HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.



School for Contemporary Education Building Addition

Howard County, Maryland

OWNER /DEVELOPER

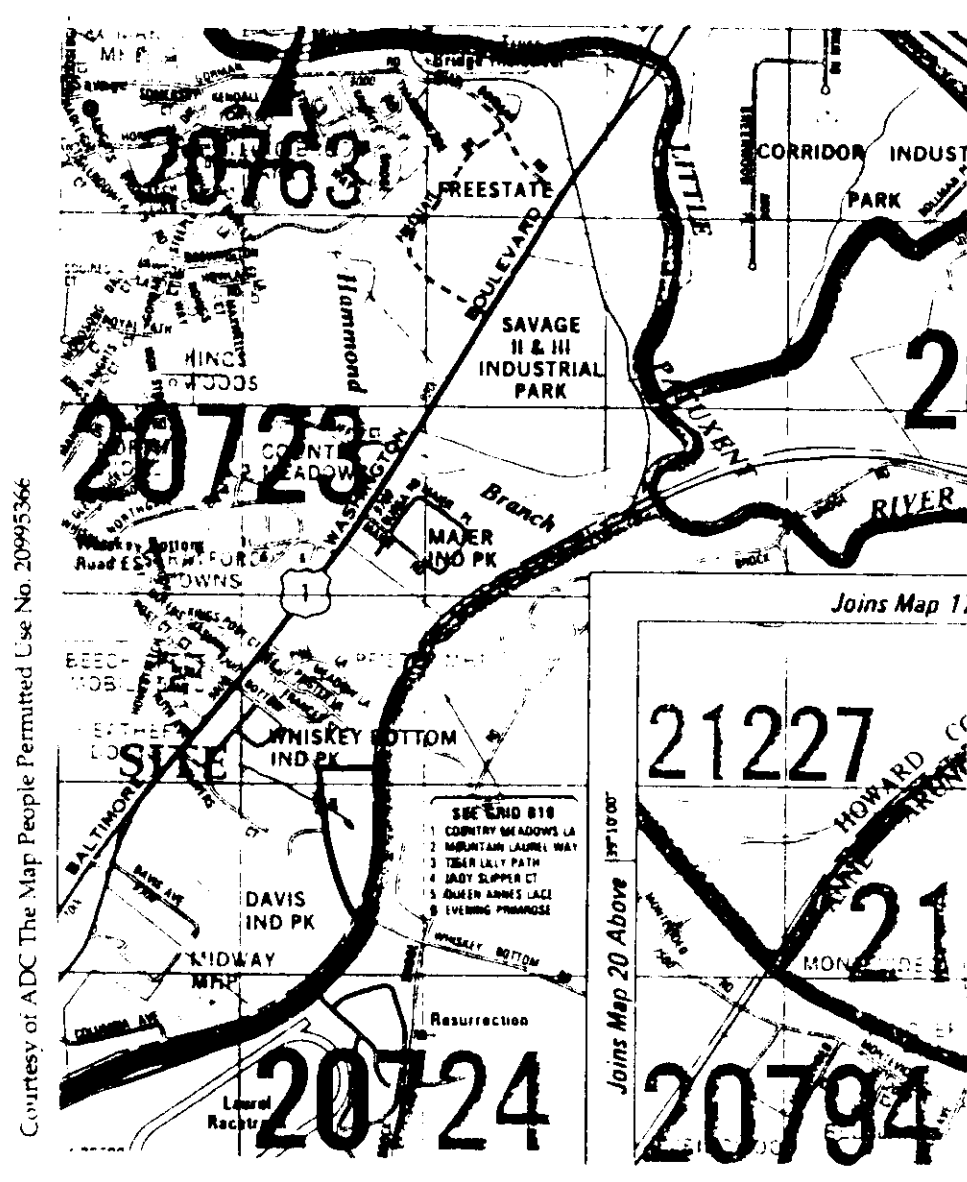
School for Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723

DMW

Deft-McCune-Walker, Inc.
200 East Pennsylvania Avenue
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(410) 286-3333
Fax: 286-4706

A Team of Land Planners,
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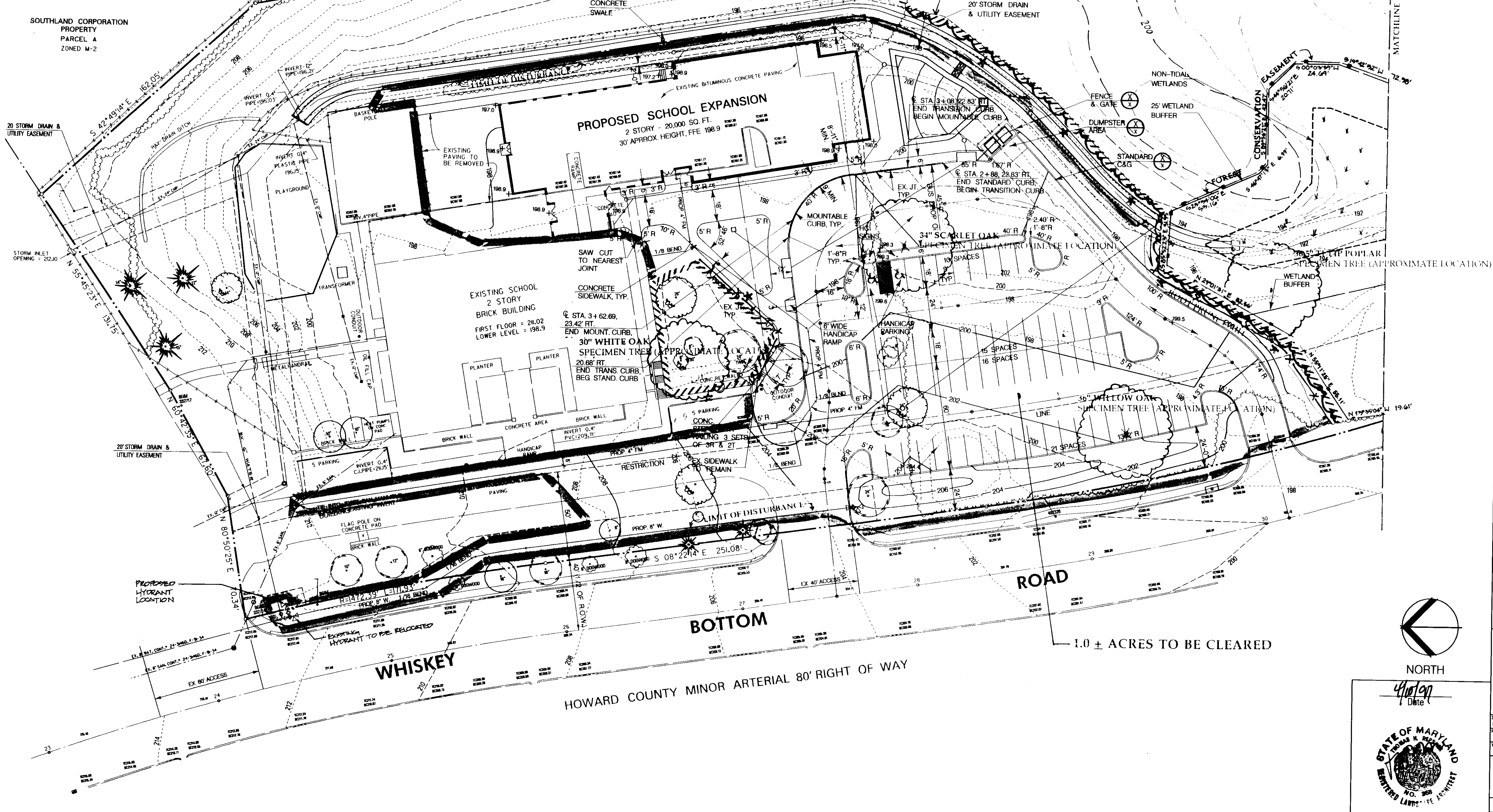
SECTION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION	N/A	DISPATCH #	Parcel 433, Per 15
PLAT NO.	10207	SECTION	M-2	PLAT SHEET	6TH
WATER CODE	5	SEWER CODE	50	CASE NO.	6069.03
TITLE					
FOREST CONSERVATION PLAN					
Des By	Scale	1" = 30'	Proj. No.	96065	
Drn By	Date	1-24-97		15 of 16	
Chk By	Approved				



SITE VICINITY MAP
Scale 1" = 2000'

FOREST CONSERVATION CHART
 EXISTING FOREST ON SITE (5.7 ± ACRES)
 FOREST TO BE RETAINED (4.7 ± ACRES)
 FOREST TO BE RETAINED IN EASEMENT (1.4 ± ACRES)
 FOREST TO BE CLEARED (1.0 ± ACRES)

- LEGEND:**
- FOREST CONSERVATION EASEMENT
 - NON-TIDAL WETLAND LIMIT
 - 25' WETLAND BUFFER
 - EXISTING FOREST EDGE
 - PROPOSED FOREST EDGE
 - ROOT PRUNE LIMIT
 - TEMPORARY/PERMANENT FOREST PROTECTION SIGNS
 - LIMIT OF DISTURBANCE ADJACENT TO RETENTION AREA/TEMPORARY FOREST PROTECTION FENCING
 - LIMIT OF DISTURBANCE
 - SPECIMEN TREE
 - SPECIMEN TREE TO BE REMOVED
- DATA SOURCES:**
- EXISTING TOPO FIELD WORK WAS COMPLETED BY DMW INC ON 11-6-96. TOPO SOUTH & EAST OF DRAINAGE & UTILITY EASEMENT WAS OBTAINED FROM SDP 78-83.
 - ALL UTILITIES SHOWN ARE BASED SOLELY ON FIELD LOCATION.
 - BOUNDARY LINE SHOWN IS BASED UPON DEEDS AND PLATS OF RECORD AND DO NOT REPRESENT AN ACCURATE FIELD RUN SURVEY.
 - THE NON-TIDAL WETLANDS, WETLAND BUFFER AND 20' STORM DRAIN AND UTILITY EASEMENT ARE SHOWN HERE AS THEY ARE REPRESENTED ON PLAT 10207.
 - PROPOSED SCHOOL EXPANSION FOOTPRINT WAS OBTAINED FROM SMDA ARCHITECTS ON 11-26-96 VIA FLOPPY DISK.



APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

<i>Howard D. ...</i>	6/10/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>R. ...</i>	6/12/97
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>...</i>	6/13/97
DIRECTOR	DATE

Date	No.	Revision Description

School for Contemporary Education Building Addition
 Howard County, Maryland

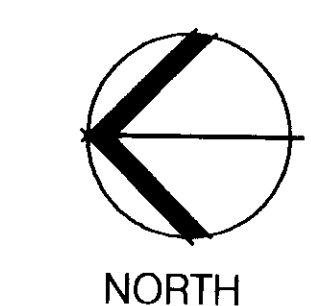
OWNER / DEVELOPER
 School For Contemporary Education
 8920 Whiskey Bottom Road
 Laurel, Maryland 20723

DMW
 DeR. McCaskey-Walker, Inc.
 200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4705

A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

SUBDIVISION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION	N/A	DISPATCH #	Parcel 433, Plat 10207
PLAT OR LOT	10207	BLK	5	TRCT	M-2
WATER CODE					

TITLE			
FOREST CONSERVATION PLAN			
Des By	MM	Scale	1" = 30'
Proj. No.	96065	Date	1-24-97
Chk By	TPC	Approved	14 of 16



4/10/97
Date



PLANT LIST

QTY	SYM	BOTANICAL NAME/COMMON NAME	SIZE	REMARKS
TREES				
15	LSR	LIQUIDAMBAR STYRACIFLUA 'ROTUNDFOLIA'	2 1/2" - 3" CAL.	B & B FULL HEAD
6	PS	PRUNUS STROBUS WHITE PINE	6'-8" HT.	B & B NATURAL
8	PA	PICEA ABIES NORWAY SPRUCE	6'-8" HT.	B & B
1	AGL	AMELANCHIER X GRANDIFLORA 'LAMARKII' SERVICE BERRY	6'-10" HT.	B & B HEAVY MULTI-STEM
SHRUBS				
60	EAC	EUONYMUS ALATUS 'COMPACTUS' DWARF WINGED EUONYMUS	24"-30" HT.	#3 CAN
11	FGA	FOETIDICOLA GARDEN DWARF FOTHERGILLA	18"-24" HT.	#3 CAN
13	VPT	VIBURNUM FLUCIDUM TOMENTOSUM DOUBLEDLE VIBURNUM	3'-4" HT.	B & B
24	JG	JUNIPERUS CHINENSIS 'PYRAMIDALIS' COMPACTA 'GOMPAGI' 'FRIDER' JUNIPER	18"-24" SPO	#3 CAN FULL 3.5" O.C.
18	ND	NANDINA DOMESTICA 'HARBOR DWARF' NANDINA	24"-30" HT.	#5 CAN
73	JCS	JUNIPERUS CHINENSIS SARGENTI SARGENT JUNIPER	18"-24" SPREAD	#1 CAN 3" O.C.
26	CH	COTONNEASTER HORIZONTALIS 'PROCKENWAY' 'COTONNEASTER'	18"-24"	#2 CAN

NOTE: 1. SEE PLANTING DETAILS "P" THROUGH "T" ON SHEET 11 OF 17.
 2. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.02 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL.
 3. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING HAS BEEN POSTED AS PART OF THE DPW DEVELOPERS AGREEMENT IN THE AMOUNT OF \$1800.00.

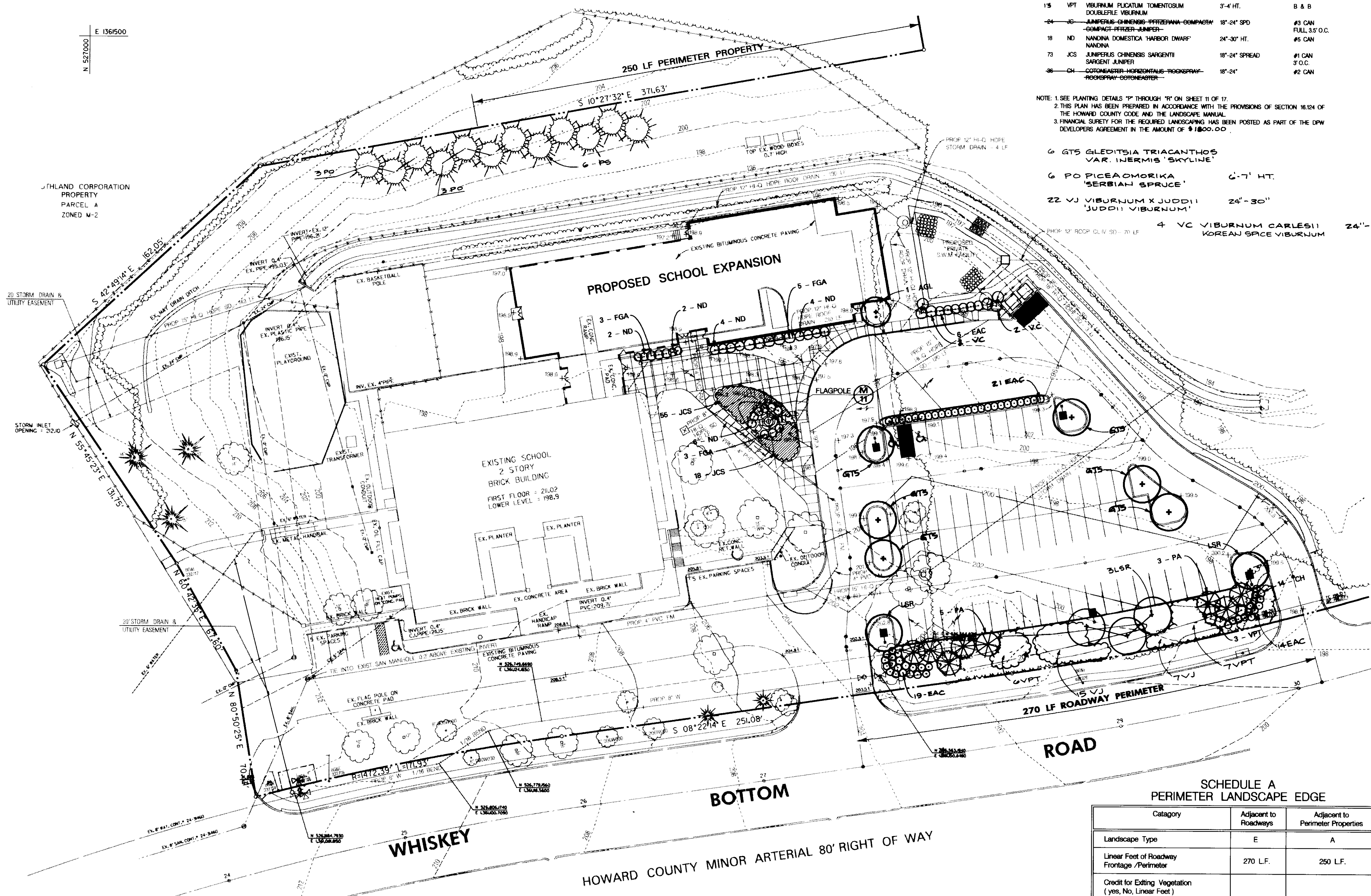
- 6 GTS GLEDITSIA TRIACANTHOS VAR. 'INERMIS' SKYLINE
- 6 PO PICEA MORA 'SERBIAN SPRUCE' 6'-7" HT.
- 22 VJ VIBURNUM X JUDDII 'JUDDII VIBURNUM' 24"-30"
- 4 VC VIBURNUM CARLESII 'KOREAN SPACE VIBURNUM' 24"-30"

GENERAL NOTES

1. Plant material substitutions subject to approval of the landscape architect.
2. Plant material shall be tagged at the source by the landscape architect unless this requirement is specifically waived.
3. Locations of all plant material shall be staked for approval by landscape architect.
4. All shrubs and groundcover areas shall be planted in continuous prepared planting beds mulched with composted hardwood mulch as detailed and specified except where noted on plans.
5. Maintain positive drainage at planting beds (minimum 2% slope).
6. Contractor shall verify accuracy of base information and existing conditions in field. Bid shall be based on actual site conditions. No extra payment shall be made for work arising from site conditions differing from those indicated on drawings and specifications.
7. All areas within contract limits disturbed during or prior to construction not designated to receive plantings and mulch shall be fine graded and seeded in accordance with planting plan and specifications.
8. Contractor shall notify Miss Utility a minimum of three working days prior to planting and construction.
9. Damage to existing conditions and utilities shall be repaired at the expense of the contractor.
10. All plant material shall be nursery grown and shall conform to American Nurseryman Association standards.

DATA SOURCES:

1. EXISTING TOPO IS BASED UPON FIELD WORK COMPLETED BY DMW INC. ON NOVEMBER 6, 1996 AND SUPPLEMENTED BY TOPOGRAPHY TAKEN FROM SDP-78-03.
2. ALL UTILITIES SHOWN ARE BASED SOLELY ON AVAILABLE RECORDS.
3. BOUNDARY LINE SHOWN IS BASED UPON PLATS OF RECORD.
4. THE NON TIDAL WETLANDS, WETLAND BUFFER AND 20' STORM DRAIN AND UTILITY EASEMENT ARE SHOWN HERE AS THEY ARE REPRESENTED ON PLAT 10207.
5. PROPOSED SCHOOL EXPANSION DIMENSIONS WERE PROVIDED BY SMDA ARCHITECTS VIA DISK ON NOVEMBER 26, 1996.



SCHEDULE A PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	E	A
Linear Feet of Roadway Frontage / Perimeter	270 L.F.	250 L.F.
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	NO	NO
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	NO	NO
Number of Plants Required		
Shade Trees	1:40' = 8	1:60' = 4
Evergreen Trees	0	0
Shrubs	1:4' = 68	0
Number of Plants Provided		
Shade Trees	5	0
Evergreen Trees	6*	12**
Other Trees (2:1 substitution)		0
Shrubs (10:1 substitution)	68	0
(Describe plant substitution credits below if needed)		

Comments: * Used (6) Evergreen Trees as substitution for 3 Shade Trees.
 ** Special consideration for use of (12) Evergreen Trees in substitution for (4) Shade Trees for the purpose of screening adjacent uses.

SCHEDULE B PARKING LOT INTERNAL LANDSCAPING

Number of Parking Spaces	62
Number of Trees Required	1:20 L.F. = 3
Number of Trees Provided	
Shade Trees	6
Other Trees (2:1 substitution)	
Number of Islands Required	3
Number of Islands Provided	8

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Chief, Development Engineering Division: *John P. ...* 6/10/97
 Chief, Division of Land Development: *Richard B. ...* 6/12/97
 Director: *James S. ...* 6/18/97

Date	No.	Revision Description
6/18/97	2	REVISE LANDSCAPE + COURTYARD WALK

School for Contemporary Education Building Addition
 Howard County, Maryland

OWNER / DEVELOPER
 School For Contemporary Education
 8920 Whiskey Bottom Road
 Laurel, Maryland 20723

DMW
 Draft-McCune-Walker, Inc.
 200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4705
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

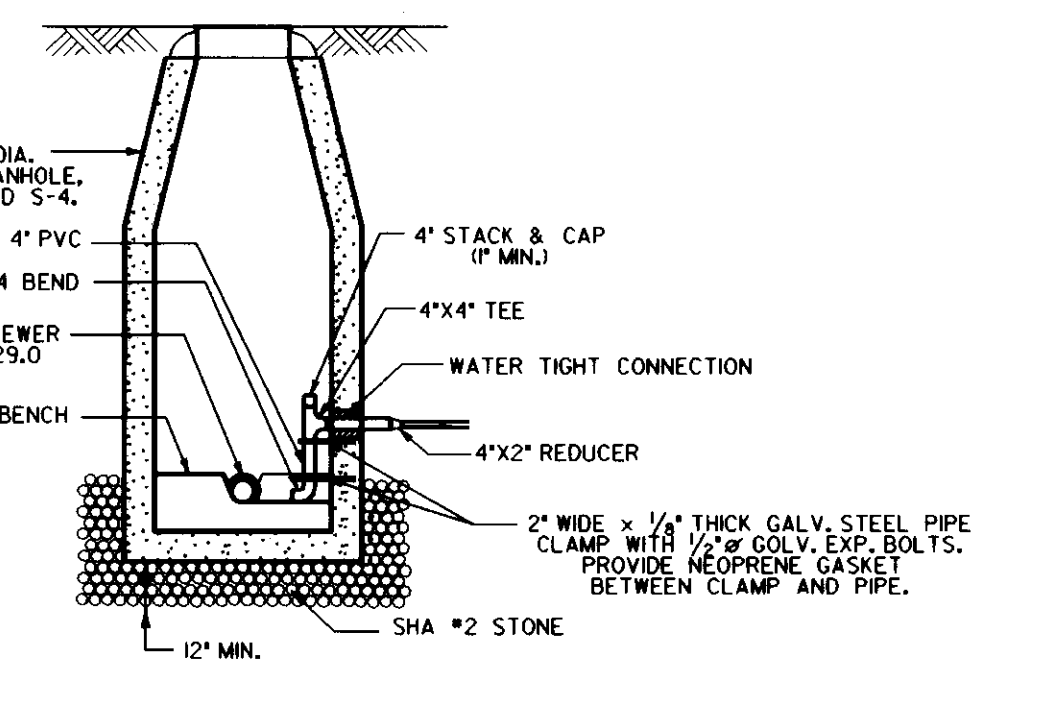
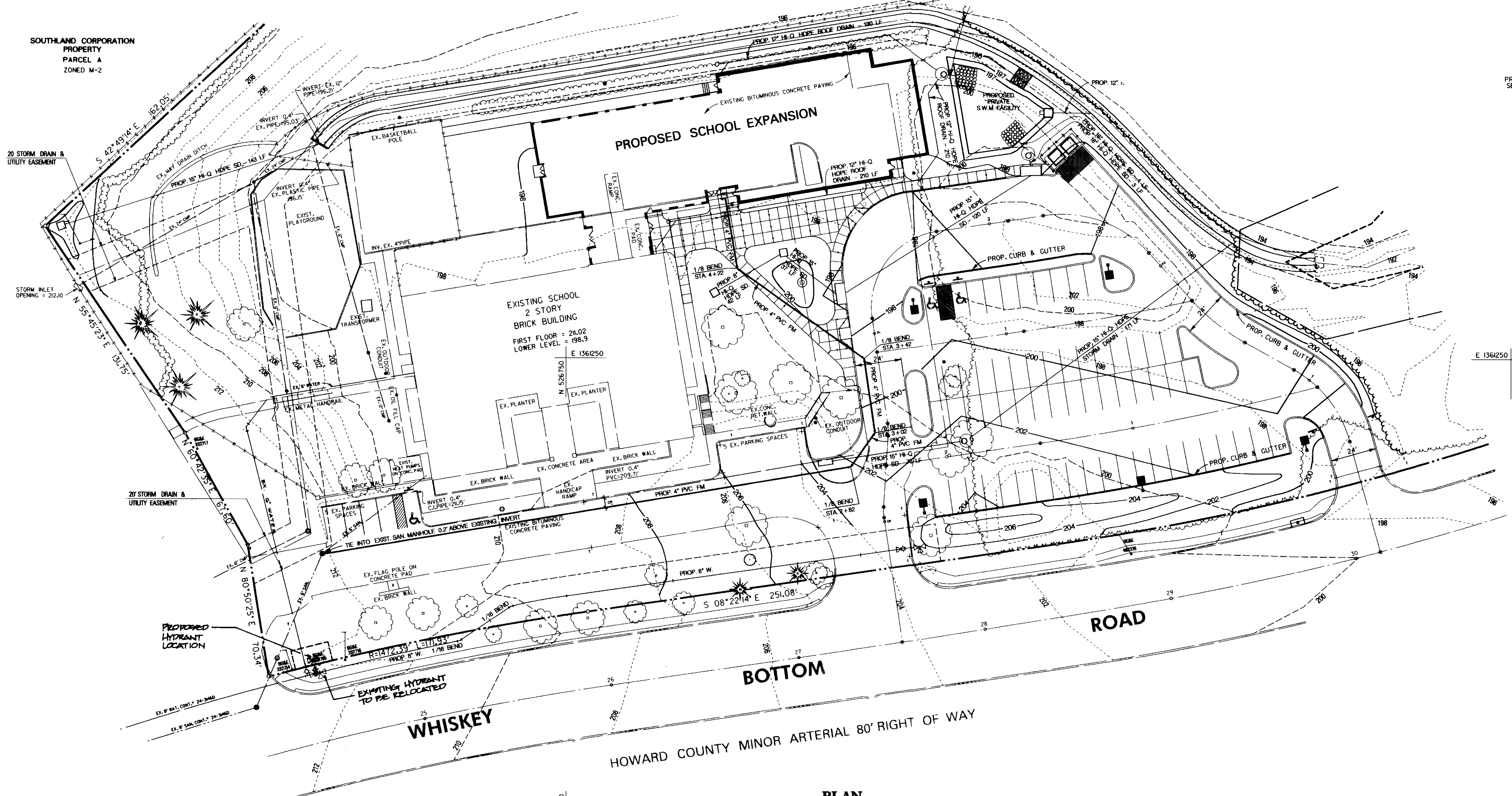
SECTION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION / AREA	N / A	DT / PLANES
10207	5	M-2	50	6TH

LANDSCAPE PLAN

Des By	MM	Scale	1" = 30'	Proj. No.	96065
Drn By	MSS	Date	1-10-97	13 of 16	
Chk By		Approved			

Professional Engineer Number:

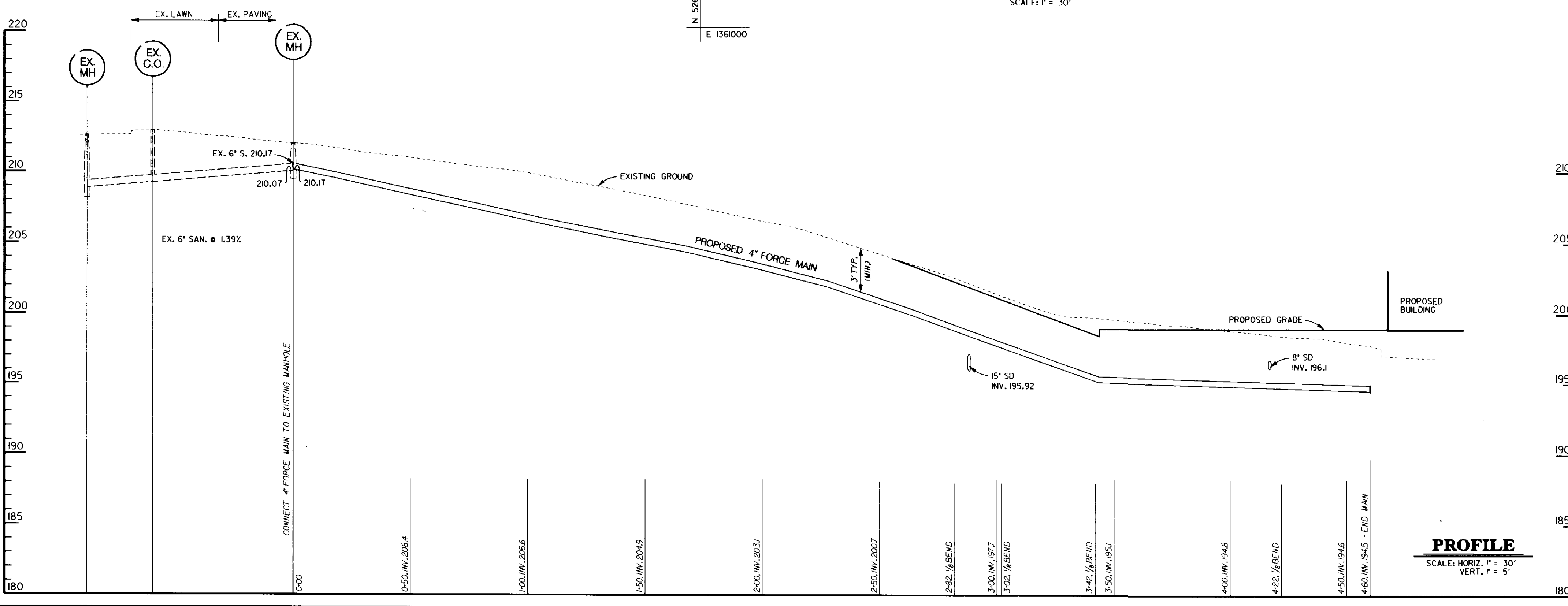
SOUTHLAND CORPORATION
PROPERTY
PARCEL A
ZONED M-2



CONNECTION TO GRAVITY SEWER
NOT TO SCALE

- DATA SOURCES:
- EXISTING TOPO IS BASED UPON FIELD WORK COMPLETED BY DMW INC ON NOVEMBER 6, 1996 AND SUPPLEMENTED BY TOPOGRAPHY TAKEN FROM SDP-78-83.
 - ALL UTILITIES SHOWN ARE BASED SOLELY ON AVAILABLE RECORDS.
 - BOUNDARY LINE SHOWN IS BASED UPON PLATS OF RECORD.
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 - PROPOSED SCHOOL EXPANSION DIMENSIONS WERE PROVIDED BY SMDA ARCHITECTS VIA DISK ON NOVEMBER 26, 1996.

PLAN
SCALE: P = 30'



PROFILE
SCALE: HORIZ. P = 30'
VERT. P = 5'

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[Signature] 4/10/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

[Signature] 4/12/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 4/13/97
DIRECTOR DATE

Date	No.	Revision Description

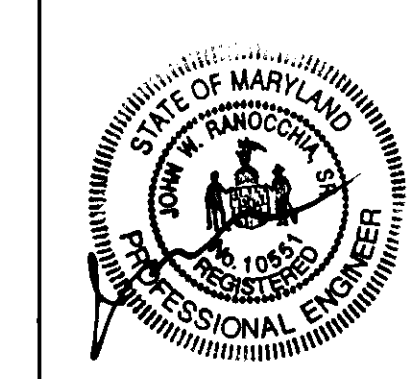
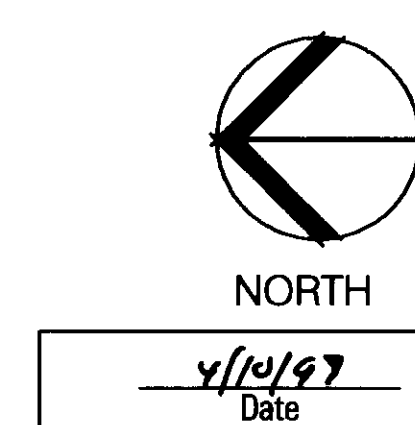
School for Contemporary Education Building Addition

Howard County, Maryland

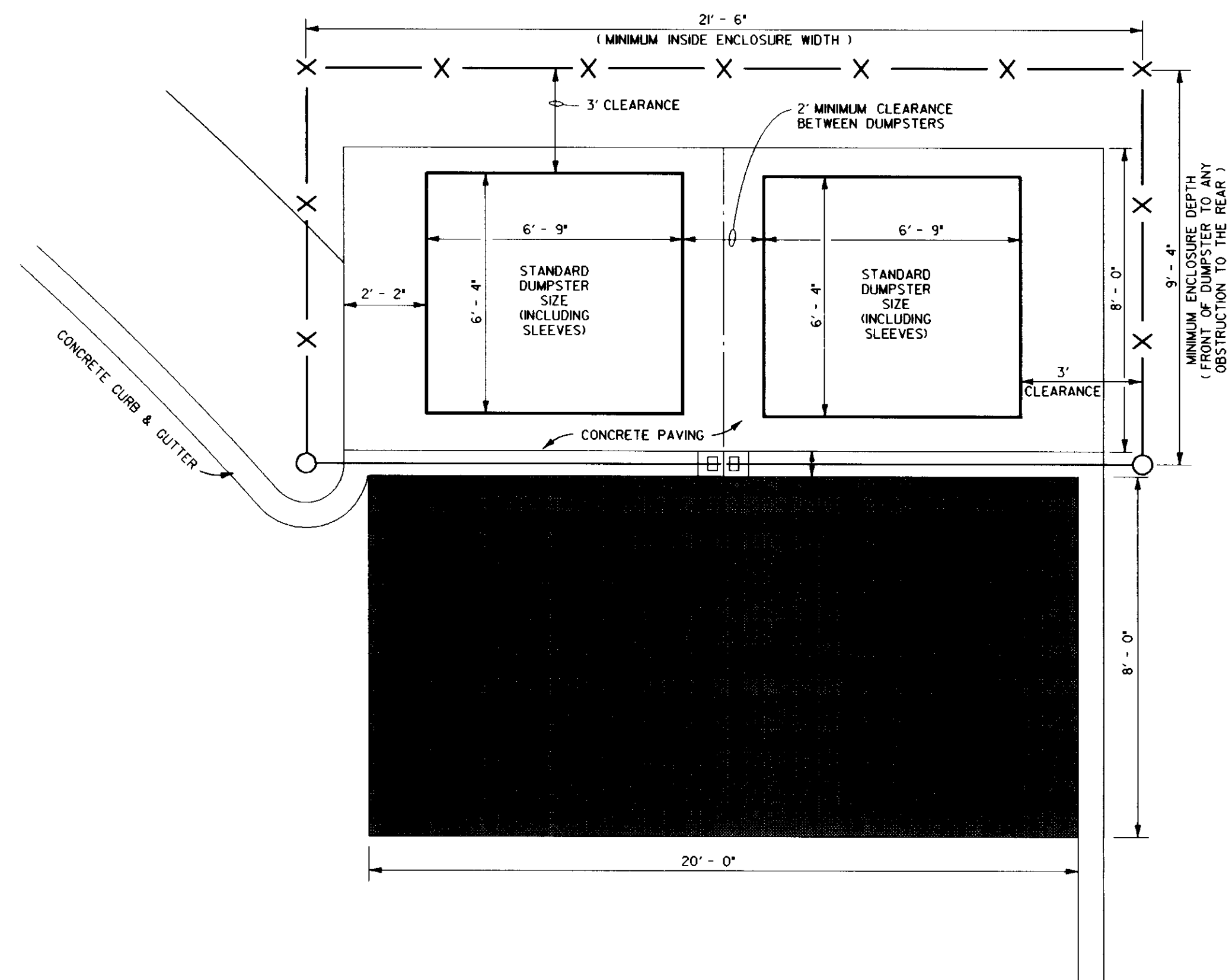
OWNER / DEVELOPER
School For Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723

DMW
Duff-McCune-Walker, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 896-3333
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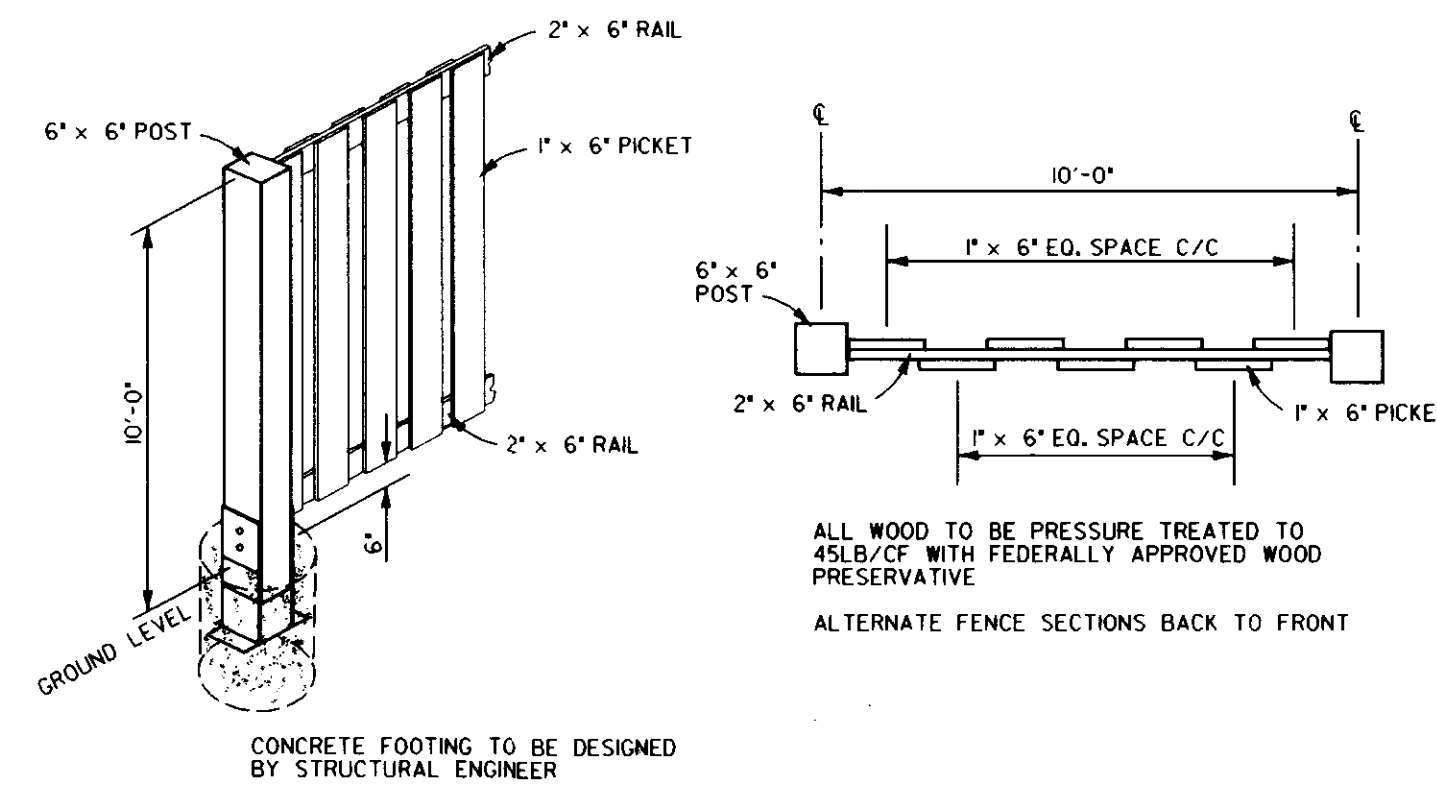
A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals



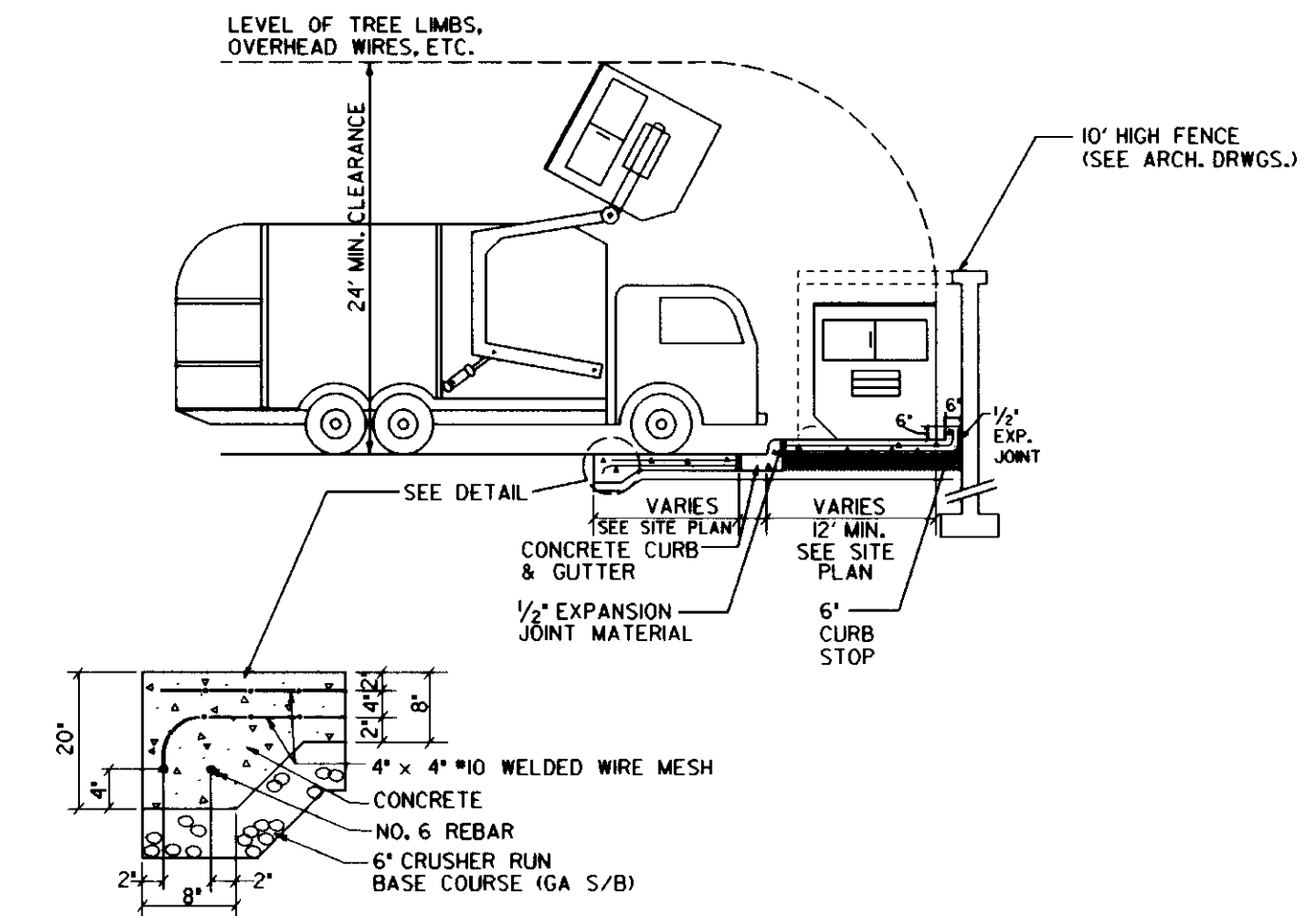
SECTION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION AREA	N/A	DT/PROJECT #	Parcel 433, Par 'B'
MAP #	10207	TRAC #	50	BLDG #	6069.03
WATER CODE	5	SEWER CODE	M-2	BLDG #	6069.03
TITLE					
SANITARY SEWER PLAN AND PROFILE					
Des By	MM	Scale	As Shown	Proj. No.	96065
Drn By	MSS	Date	1-10-97	12 of 16	
Chk By	MK	Approved	Professional Engineer Number: 7331		



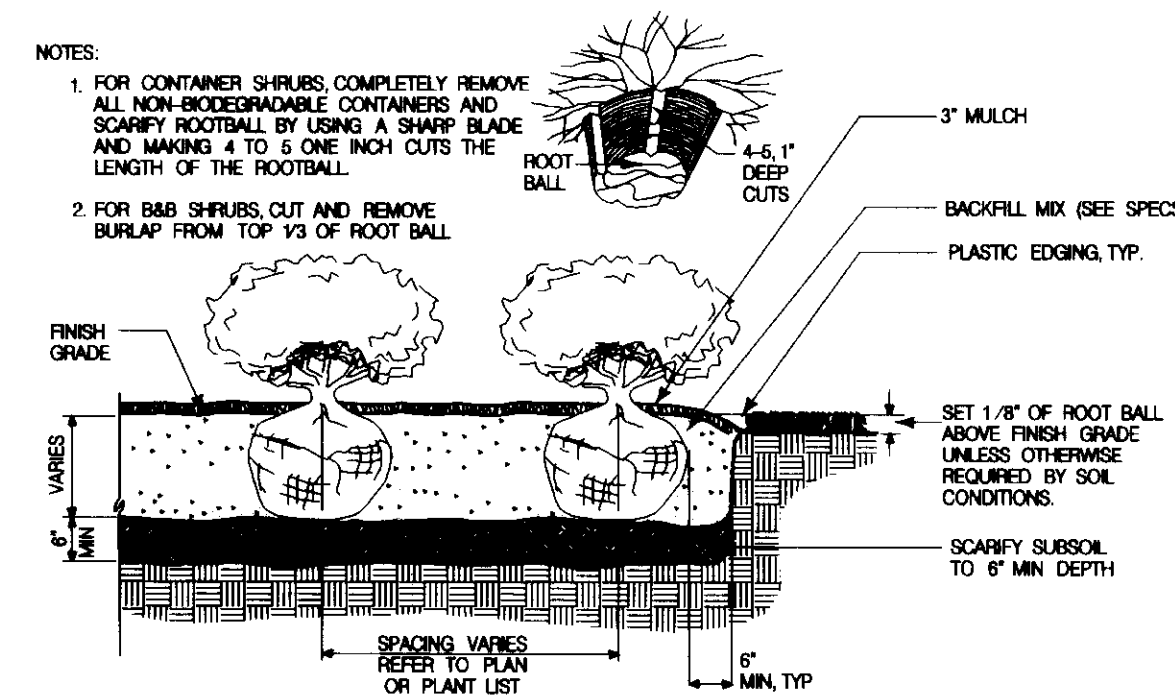
L Solid Waste Container Enclosure and Service Pad
Not To Scale



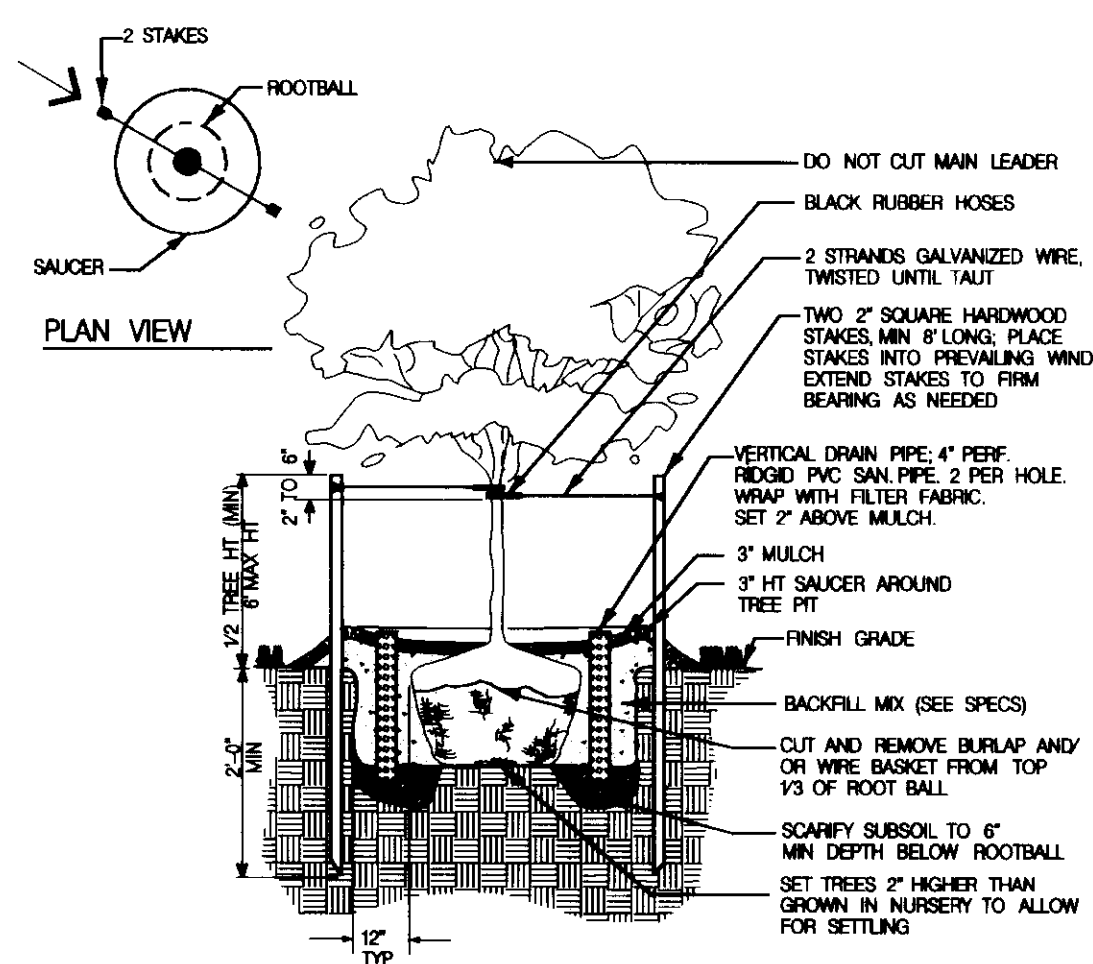
M Board on Board Fence
Not To Scale



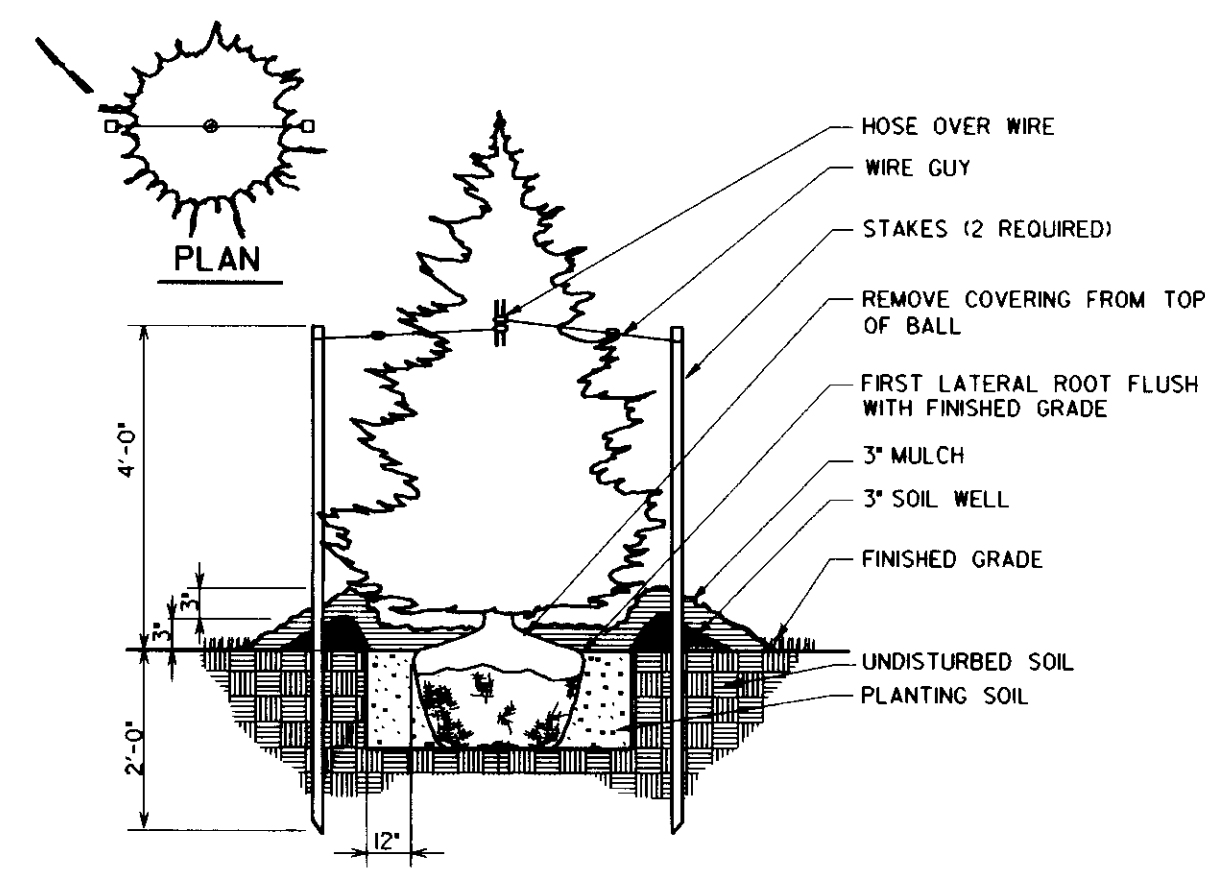
N Dumpster Area
Not To Scale



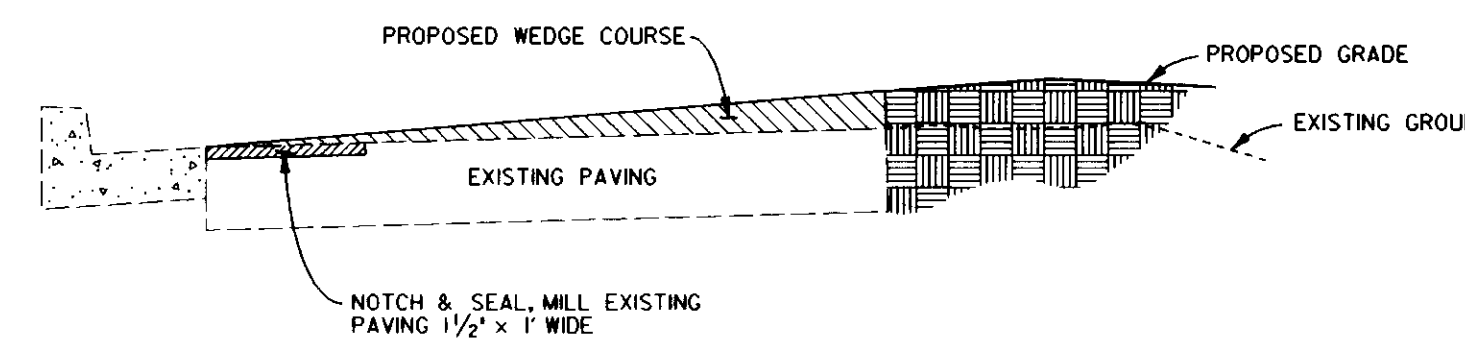
P Shrub Bed Planting
Not To Scale



Q Tree Planting (Less than 3" Caliper)
Not To Scale



R Evergreen Tree Planting
Not To Scale



S Wedge Course Paving
Not To Scale

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Chief Development Engineering Division: *[Signature]* 6/10/97
 Chief Division of Land Development: *[Signature]* 6/12/97
 Director: *[Signature]* 6/18/97

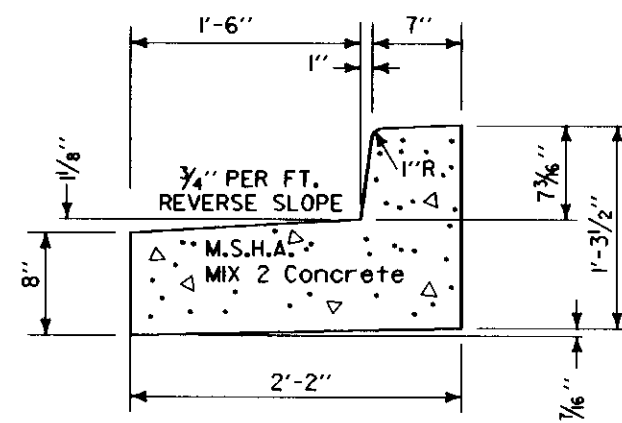
Date	No.	Revision Description

School for Contemporary Education Building Addition
 Howard County, Maryland
 OWNER / DEVELOPER
 School For Contemporary Education
 8920 Whiskey Bottom Road
 Laurel, Maryland 20723

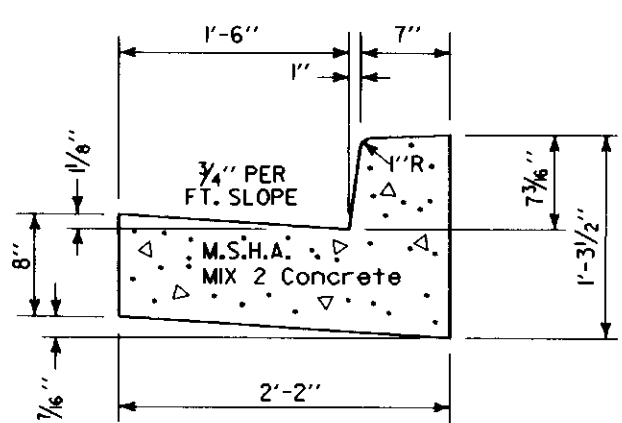
DMW
 Draft-McCune-Walkers, Inc.
 300 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 286-3333
 Fax: 286-4706
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals

4/10/97
 Date
 PROFESSIONAL ENGINEER
 STATE OF MARYLAND
 JOHN W. RANDOLPH
 No. 10583

SUBMISSION NAME		SECTION / AREA		DT / PARCEL #	
SOUTHLAND CORPORATION PROPERTIES		N / A		Parcel 433, Par 'B'	
LOT / OR L.P.	BLK / S / T	TR / MAP	BLK / SHEET	ORIGIN / W/CT	DATE / W/CT
10207	5	M-2	50	6TH	6/8/93
WATER CODE		SEWER CODE			
TITLE					
SITE DETAILS					
Des By	MM	Scale	As Shown	Proj. No. 96065	
Dm By	MSS	Date	1-10-97	11 of 16	
Chk By	MK	Approved			

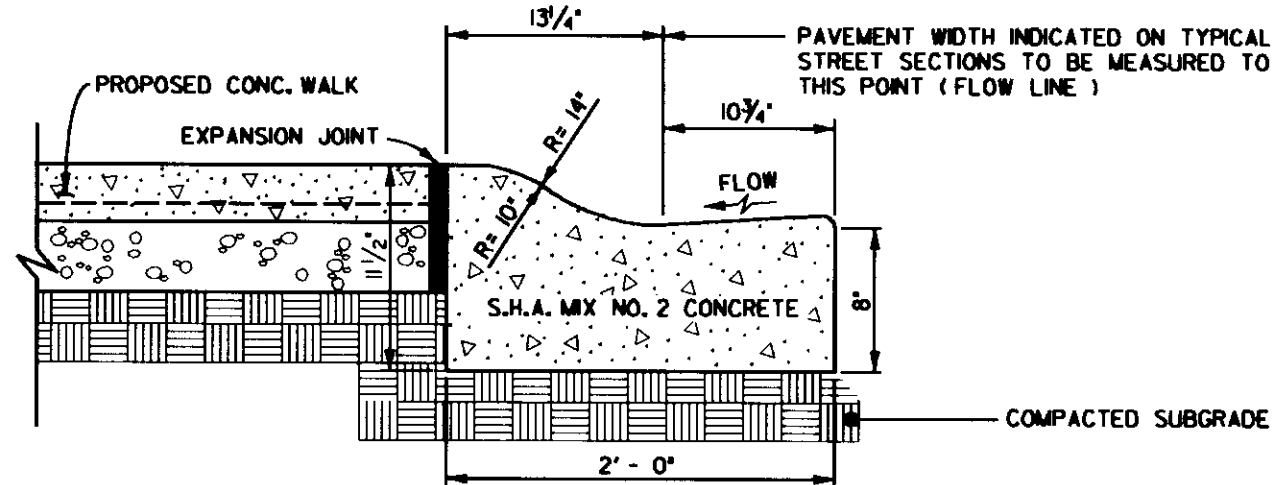


SECTION REVERSE CURB



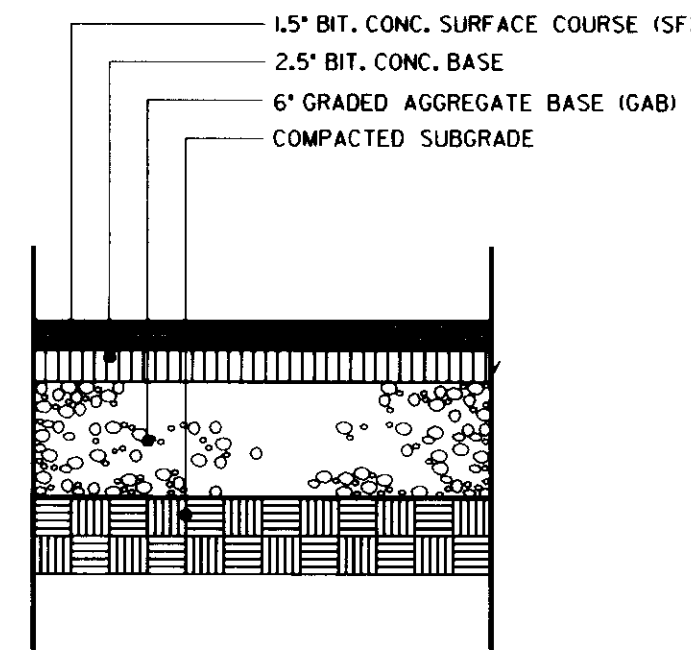
SECTION

B Modified Combination Curb & Gutter
Not To Scale

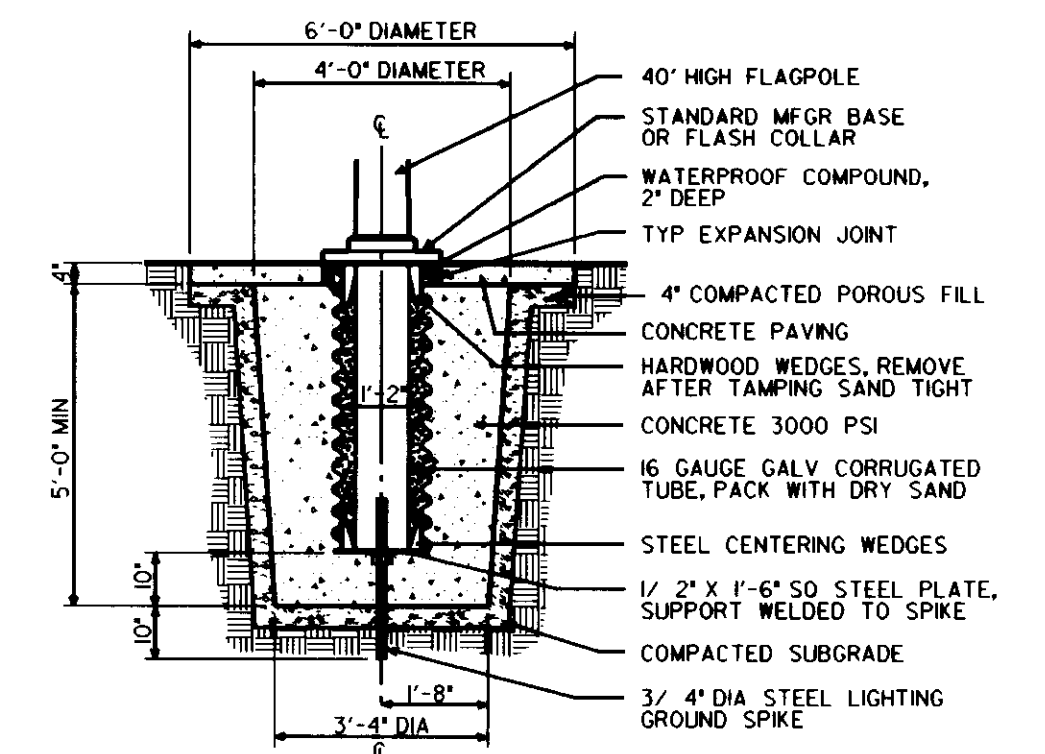
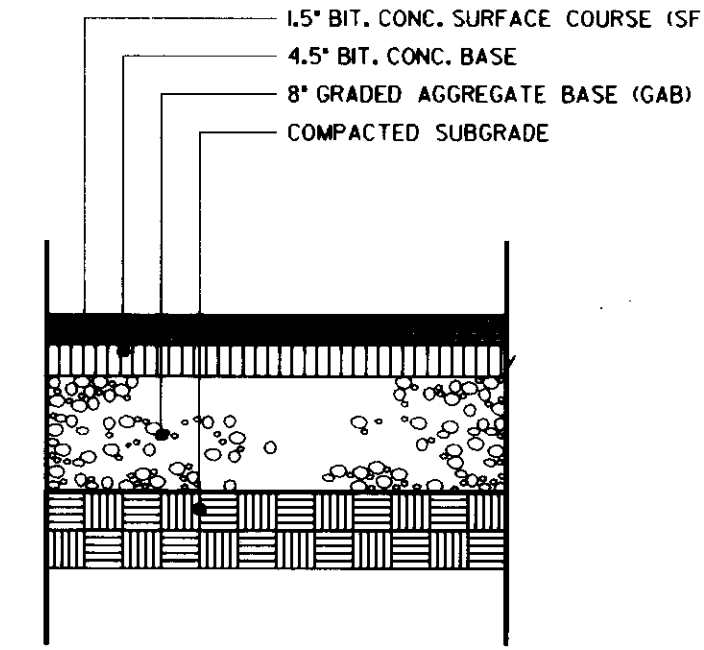


SECTION

C Light Duty Paving
Not To Scale

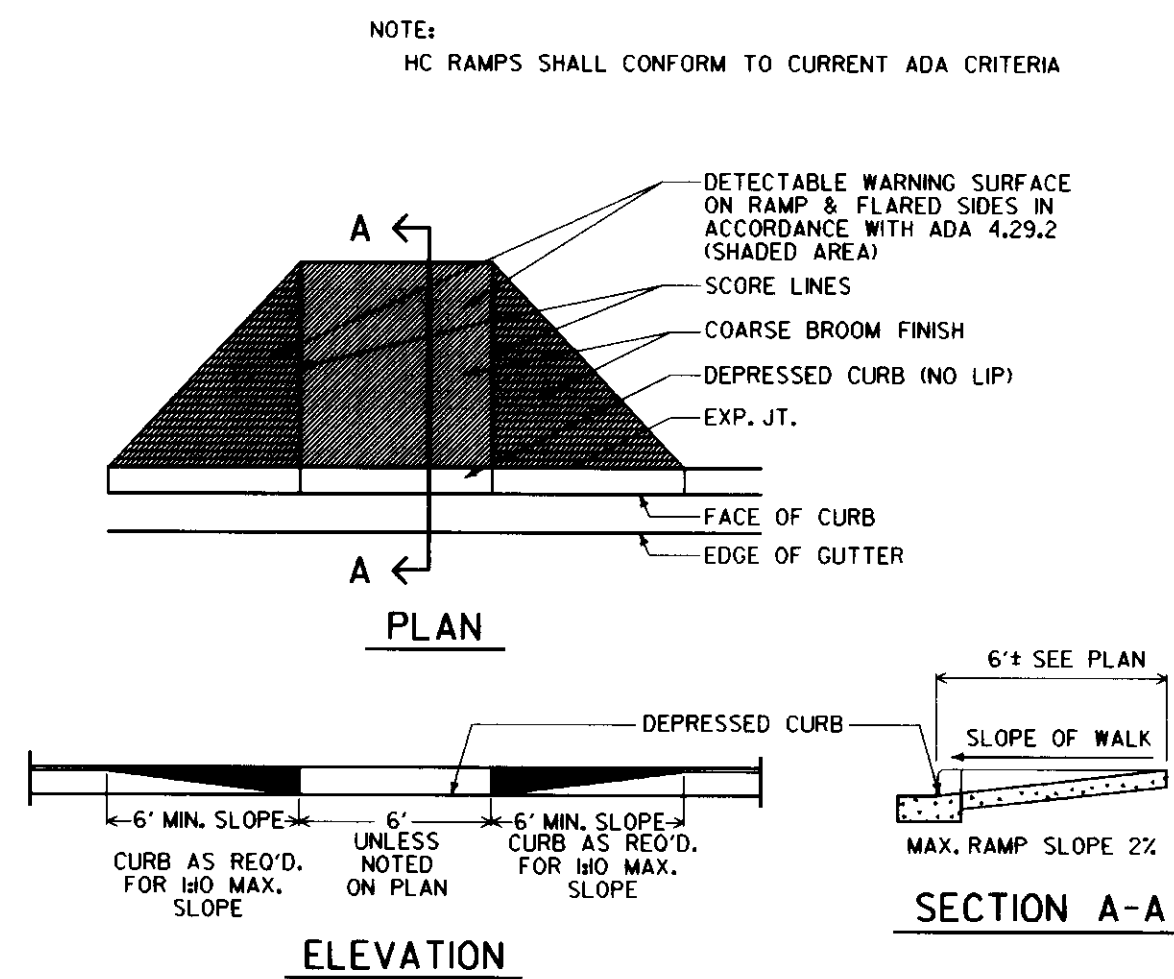
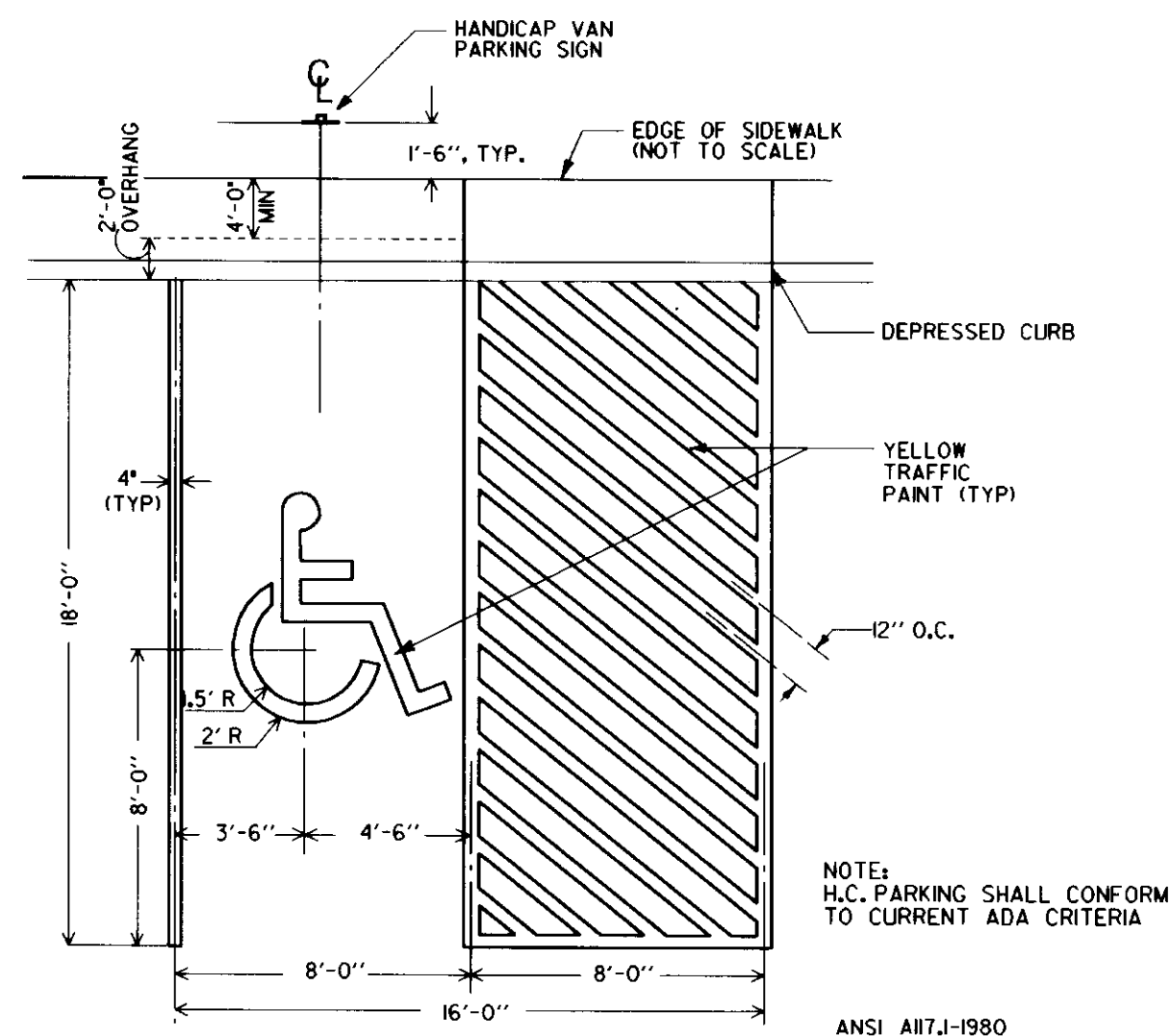


D Heavy Duty Paving
Not To Scale

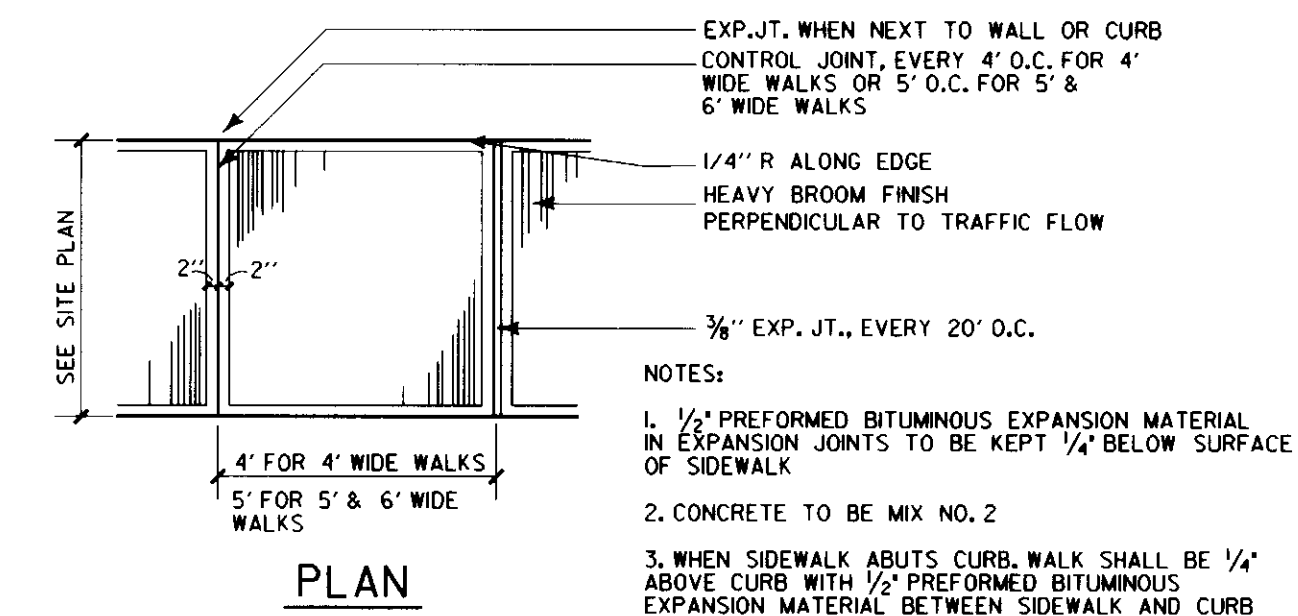


E Flagpole Mounting
Scale: 1/2" = 1'-0"

A Concrete Curb, Typical
Not To Scale



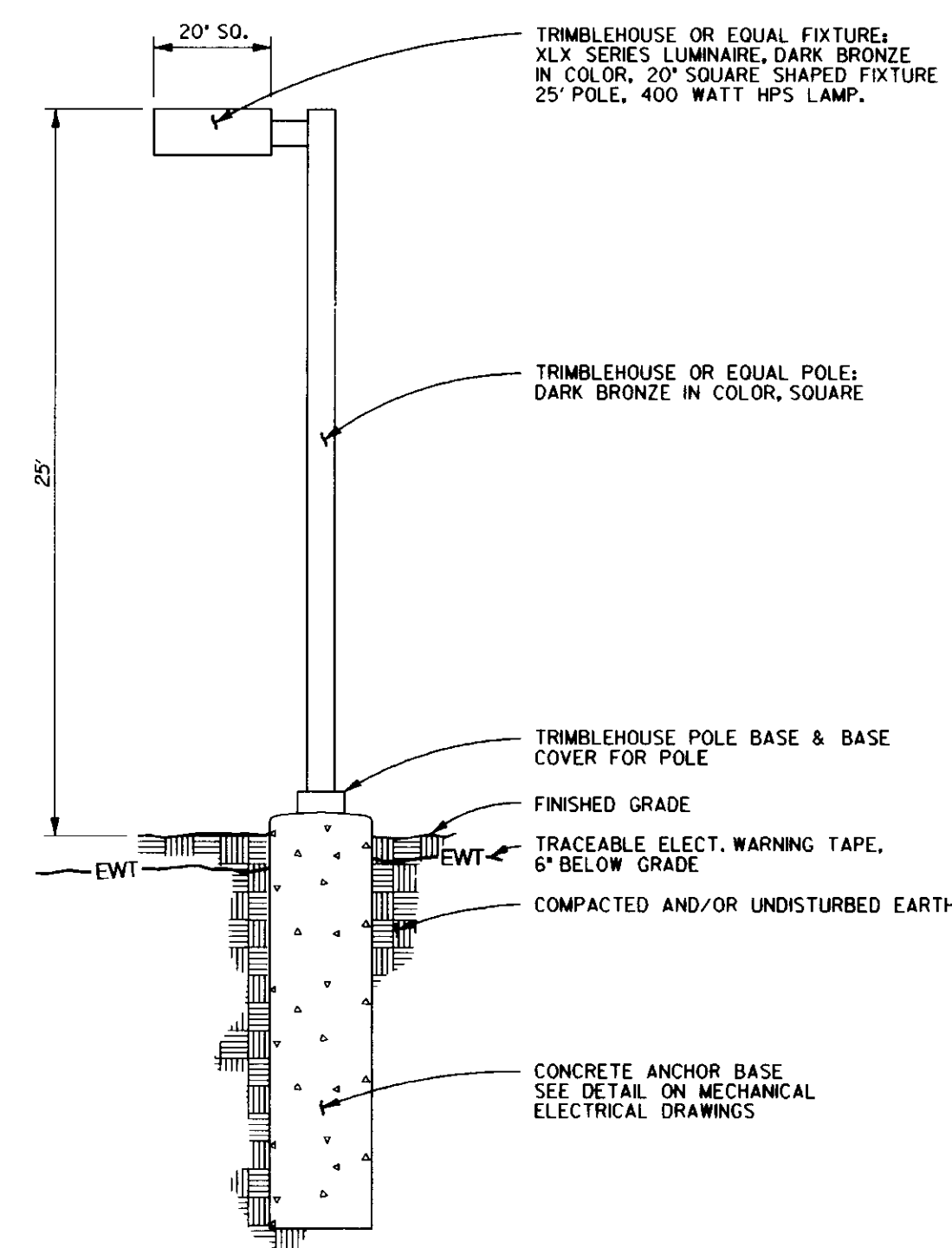
G Handicapped Ramp Type I
Not To Scale



PLAN

SECTION

H Concrete Walk
Not To Scale

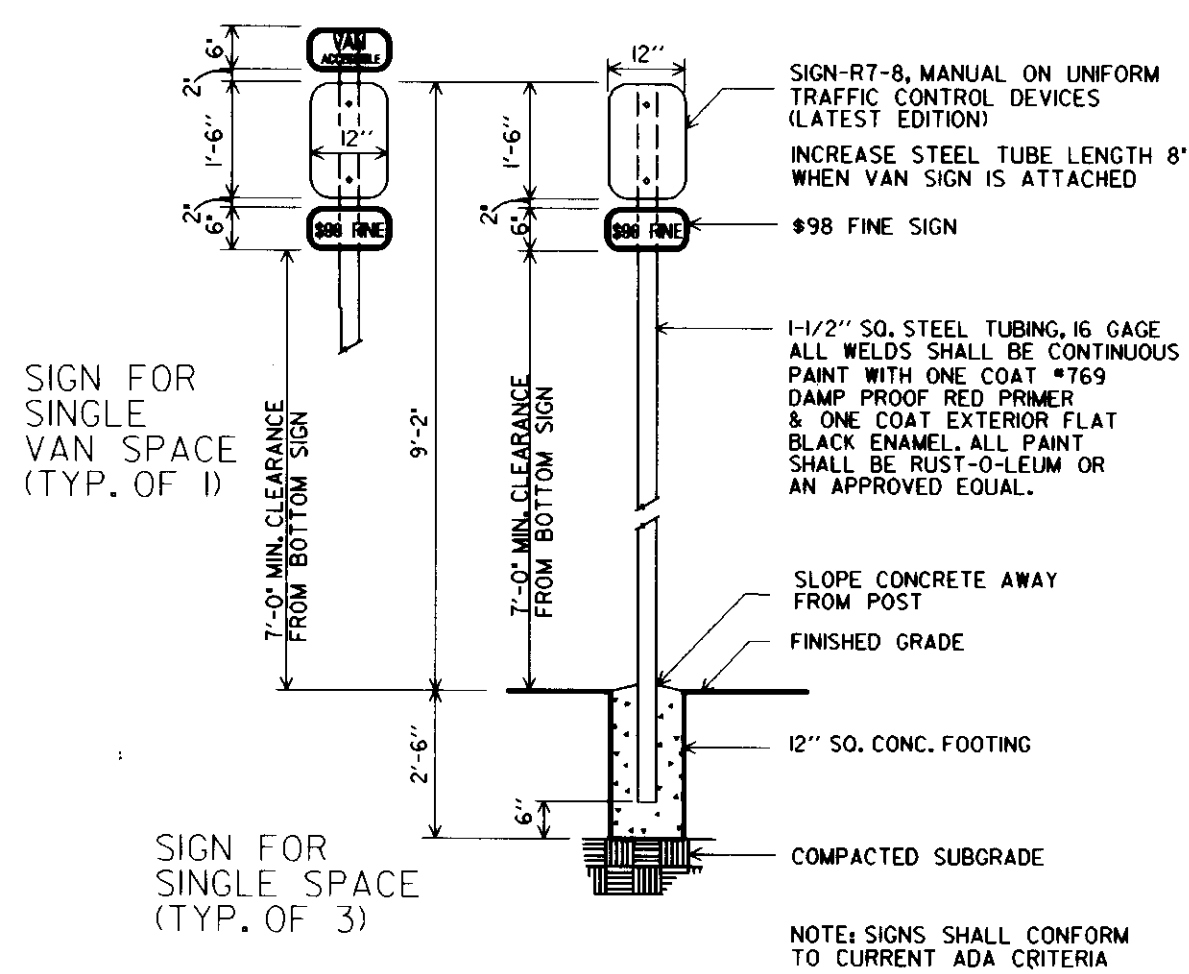


K Sharp Cutoff Area Light
Not To Scale

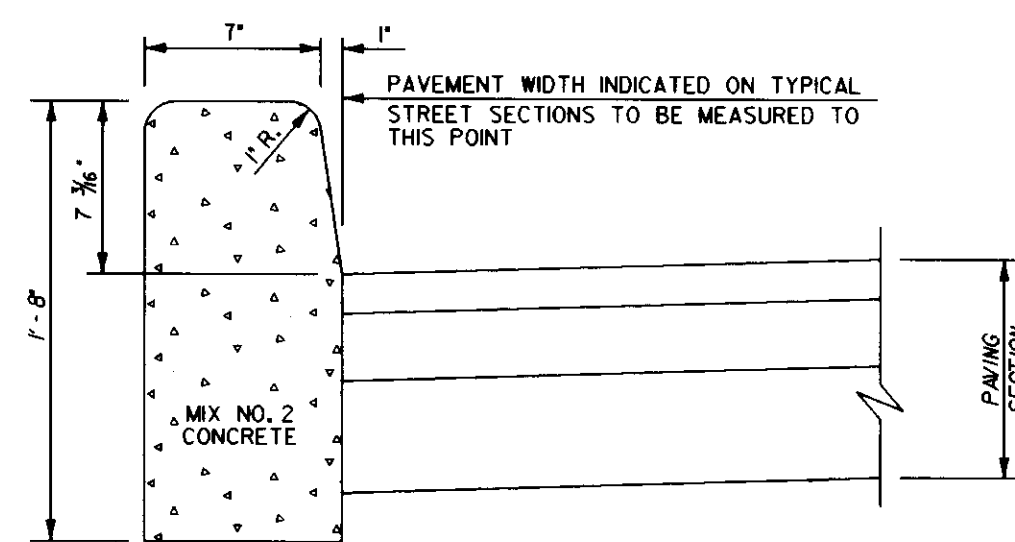
F Handicap Van Parking
Not To Scale

NOTES:
1. DISTANCE FROM GROUND TO BOTTOM OF SIGN SHALL BE 7'
2. SEE HANDICAPPED PARKING SPACE DETAIL THIS SHEET FOR LOCATION OF HANDICAPPED SIGN.
3. SPACE MARKED 'V' SHALL INCLUDE 'VAN SIGN' AS REQUIRED.

SIGN COLORS:
LETTERS AND BORDER - GREEN
WHITE, H.C. SYMBOLS ON BLUE BACKGROUND
BACKGROUND - WHITE



I Handicap Parking Sign
Not To Scale



J Standard Barrier Curb
Not To Scale

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Chief, Development Engineering Division: *[Signature]* 6/10/97 DATE
 Chief, Division of Land Development: *[Signature]* 6/12/97 DATE
 Director: *[Signature]* 6/13/97 DATE

Date	No.	Revision Description

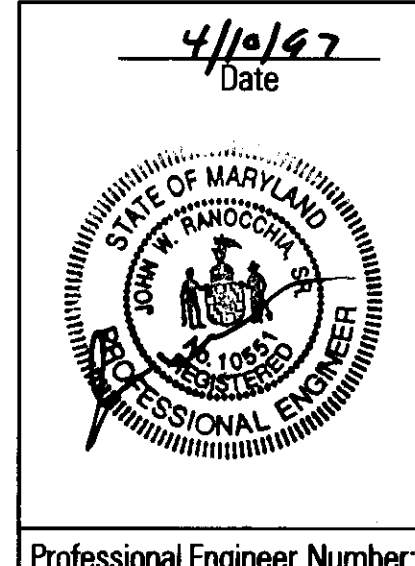
School for Contemporary Education Building Addition

Howard County, Maryland

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 8920 Whiskey Bottom Road
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A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals



DATE	BY	REVISION

TITLE: **SITE DETAILS**

Des By	MM	Scale	As Shown	Proj. No.	96065
Dm By	MSS	Date	1-10-97	10 of 16	
Chk By	MK	Approved			

Professional Engineer Number: 14551

DUST CONTROL SPECIFICATIONS

Temporary Methods

- Mulches - See standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
- Vegetative Cover - See standards for temporary vegetative cover.
- Tillage - To roughen surface and bring clods to the surface. This is an emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment which may produce the desired effect.
- Irrigation - This is generally done as an emergency treatment. Site is sprinkled with water until the surface is moist. Repeat as needed. At no time should the site be irrigated to the point the runoff begins to flow.
- Barriers - Solid board fences, snow fences, burlap fences, straw bales, and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 10 times their height are effective in controlling soil blowing.
- Calcium Chloride - Apply at a rate that will keep surface moist. May need retreatment.

Permanent Methods

- Permanent Vegetation - See standards for permanent vegetative cover, and permanent stabilization with sod. Existing trees or large shrubs may afford valuable protection if left in place.
- Topsoiling - Covering with less erosive soil materials. See standards for topsoiling.
- Stone - Cover surface with crushed stone or coarse gravel.

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

II - 30 - 1

MARYLAND DEPARTMENT OF ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

Dust Control Specifications

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (1992-2437).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE '1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.'
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - SEVEN CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1
 - FOURTEEN 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. I, 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 '1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL' FOR PERMANENT SEEDINGS, SOIL TEMPORARY SEEDING, AND MULCHING (SECTION Q). 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.

7. SITE ANALYSIS:

TOTAL AREA OF SITE	9.01 ACRES
AREA DISTURBED	2.10 ACRES
AREA TO BE ROOFED OR PAVED	1.50 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.60 ACRES
TOTAL CUT	2778 CUBIC YARDS
TOTAL FILL	2822 CUBIC YARDS
OFF-SITE WASTE/BORROW AREA LOCATION WASTE	= NA

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPM SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTOR 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.

UTILITY CONSTRUCTION OUTSIDE SEDIMENT CONTROL PRACTICES

- EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON UPSTREAM SIDE OF TRENCH.
- DISTURBED LONGER THAN ONE WORKING DAY, SLOPE LENGTHS BE RE-CRIPPED, COMPACTED AND IMMEDIATELY STABILIZED (MULCHED, SEED, AND/OR SODDED MECHANICAL STABILIZATION) AT THE END OF EACH WORK DAY.
- EMBANKMENTS SHALL BE REPAIRED IMMEDIATELY DOWN STREAM OF ANY DISTURBED AREA INTENDED TO REMAIN STANDARD DRAWING - E-15-3)
- WHEN CONTRACTORS ARE REQUIRED TO FULFILL EROSION AND SEDIMENT CONTROL REQUIREMENTS, ALL SEDIMENT AND EROSION CONTROL PRACTICES AND VEGETATIVE STABILIZATION SHALL BE IN ACCORDANCE WITH THE '1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL' (SECTION Q).
- ALL SEDIMENT AND EROSION CONTROL PRACTICES DAMAGED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

Utility Construction Outside Sediment Control

Sediment Control General Notes

Materials Specifications

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 1000 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 ACRES 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 THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (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, 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./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATIONS USING MULCH ANCHORING TOOL OR 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 ANCHORING.

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

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, IF NOT PREVIOUSLY LOOSENED.

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

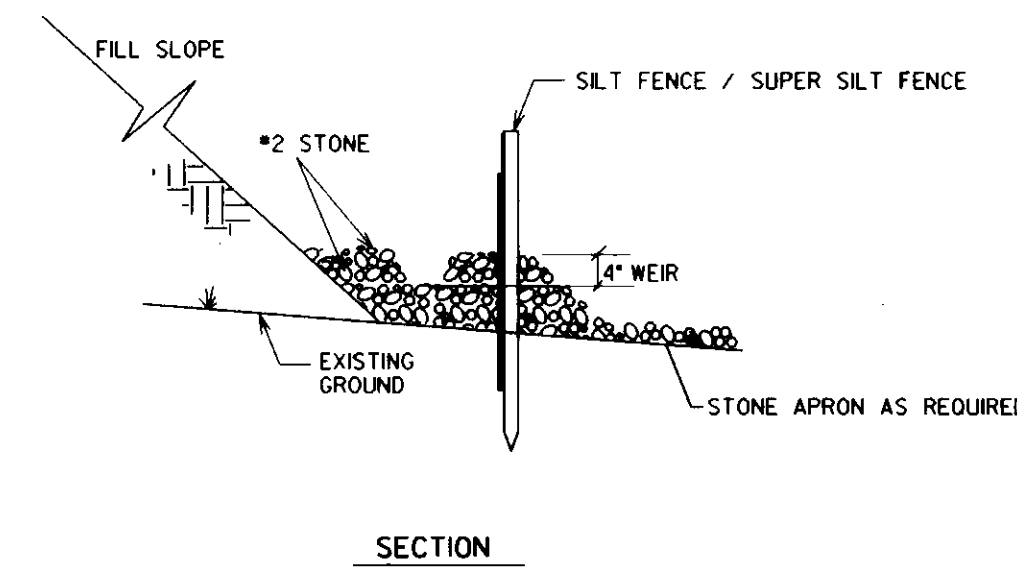
SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 15 OCTOBER 15, SEED WITH 2-1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS./1000 SQ.FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.7 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED WOOD 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 FT. OR HIGHER, USE 348 GAL. PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

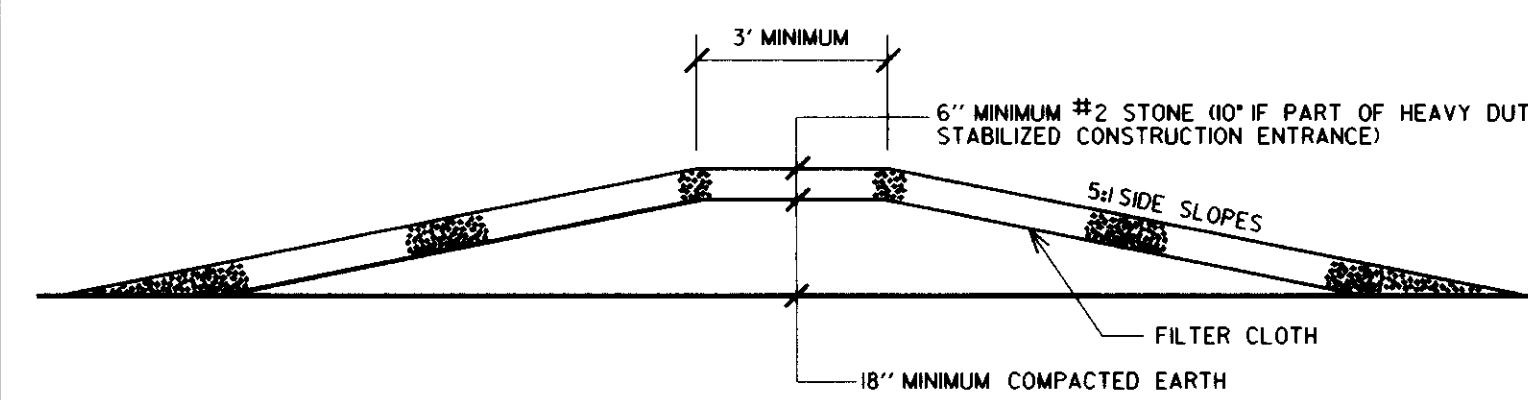
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR ADDITIONAL RATES AND METHODS NOT COVERED.

STD. SILT FENCE	SUPER SILT FENCE
#2 STONE	#2 STONE
12" HIGH	24" HIGH
24" WIDE	36" WIDE
50'-100' O.C.	50'-100' O.C.

OR 4' MAX. VERTICAL CHANGE IN ELEV.



Ⓒ Number 2 Stone Check Dam



Ⓗ Mountable Berm Detail

NOT TO SCALE

Table 27 Geotextile Fabrics

CLASS	APPARENT OPENING SIZE MM. MAX.	GRAB TENSILE STRENGTH LB. MIN.	BURST STRENGTH PSI. MIN.
A	0.30	250	500
B	0.60	200	320
C	0.30	200	320
D	0.60	90	145
E	0.30	90	145
F (SILT FENCE)	0.40-0.80*	90	190

* US Std. Sieve CW-0225

The properties shall be determined in accordance with the following procedures:
 - Apparent opening size MSMT 323
 - Grab tensile strength ASTM 1682 4x8 specimen, 1x2' clamps, 12"/min. strain rate in both principal directions of geotextile fabric.
 - Burst strength ASTM D 3786

The fabric shall be inert to commonly encountered chemicals and hydrocarbons, and will be rot and mildew resistant. It shall be manufactured from fibers consisting of long chain synthetic polymers, and composed of a minimum of 85% by weight of polyolefins, polyesters, or polyamides. The geotextile fabric shall resist deterioration from ultraviolet exposure.

In addition, Classes A through E shall have a 0.01 cm./sec. minimum permeability when tested in accordance with the grab tensile strength requirements listed above.

Silt Fence
 Class F geotextile fabrics for silt fence shall have a 50 lb./in. minimum tensile strength and a 20 lb./in. minimum tensile modulus when tested in accordance with MSMT 505. The material shall also have a 0.3 gal./ft. min. flow rate and seventy-five percent (75%) minimum filtering efficiency when tested in accordance with MSMT 322. Geotextile fabrics used in the construction of silt fence shall resist deterioration from ultraviolet exposure. The fabric shall contain sufficient amounts of ultraviolet ray inhibitors and stabilizers to provide a minimum of 12 months of expected usable construction life at a temperature range of 0 to 120 degrees F.

Materials Specifications

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION *[Signature]* 6/10/97 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT *[Signature]* 6/12/97 DATE
 DIRECTOR *[Signature]* 6/18/97 DATE

Date No. Revision Description

School for Contemporary Education Building Addition

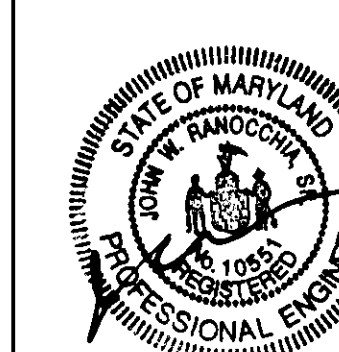
Howard County, Maryland

OWNER /DEVELOPER
 School for Contemporary Education
 8920 Whiskey Bottom Road
 Laurel, Maryland 20723

DMW
 Draft-McCune-Walker, Inc.
 300 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4706

A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

4/10/97
 Date



SUBMITTAL DATE	SOUTH LANE	SECTION AREA	SECTION #	LOT #
DATE OF L.P.	NO. OF LOTS	NO. MAP	ELECT. DIST.	PARCEL NO.
10/27	5	M-2	6TH	8069.03
MAP CODE	OWNER CODE			

EROSION & SEDIMENT CONTROL DETAILS

Des By: MM Scale: As Shown Proj. No. 96065
 Dm By: MSS Date: 1-10-97
 Chk By: MK Approved

9 of 16

Certifications

Permanent Seeding Notes

SEQUENCE OF CONSTRUCTION

1. Obtain a grading permit. (7 days)
2. Notify the Howard County Office of Inspection and Permits (313-1855) a minimum of 48 hours prior to the start of any construction. (2 days)
3. Clear and grub for and install sediment and erosion control measures or devices. (5 days)
4. Stabilize all nonactive graded surfaces with temporary seeding. (1 day)
5. Mass grade site and begin building construction. (9 months)
6. Install S.W.M. Facility. Provide inlet protection for riser and brick or cap 8" PVC lowflow pipe.
7. Install utilities, provide inlets with inlet protection. (2 months)
8. Fine grade all paved areas. Install curb and gutters. Apply road or walkway sub-base, pave areas. (1 month)
9. Fine grade site. Stabilize all disturbed areas with permanent seeding. (1 month)
10. With the prior permission of the Sediment Control Inspector and the Howard County Sediment Control Division remove sediment controls. Fine grade and stabilize these areas. (1 week)

HOWARD SOIL CONSERVATION DISTRICT

Developer and Engineer Certificates
 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 of a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. ~~These plans are prepared and submitted to the Howard Soil Conservation District with an understanding that the Howard Soil Conservation District will not conduct on-site inspections by the Howard Soil Conservation District.~~

Sally A. Sibley 4-18-97
 Signature of Developer Date
 Print name below signature
SALLY A. SIBLEY

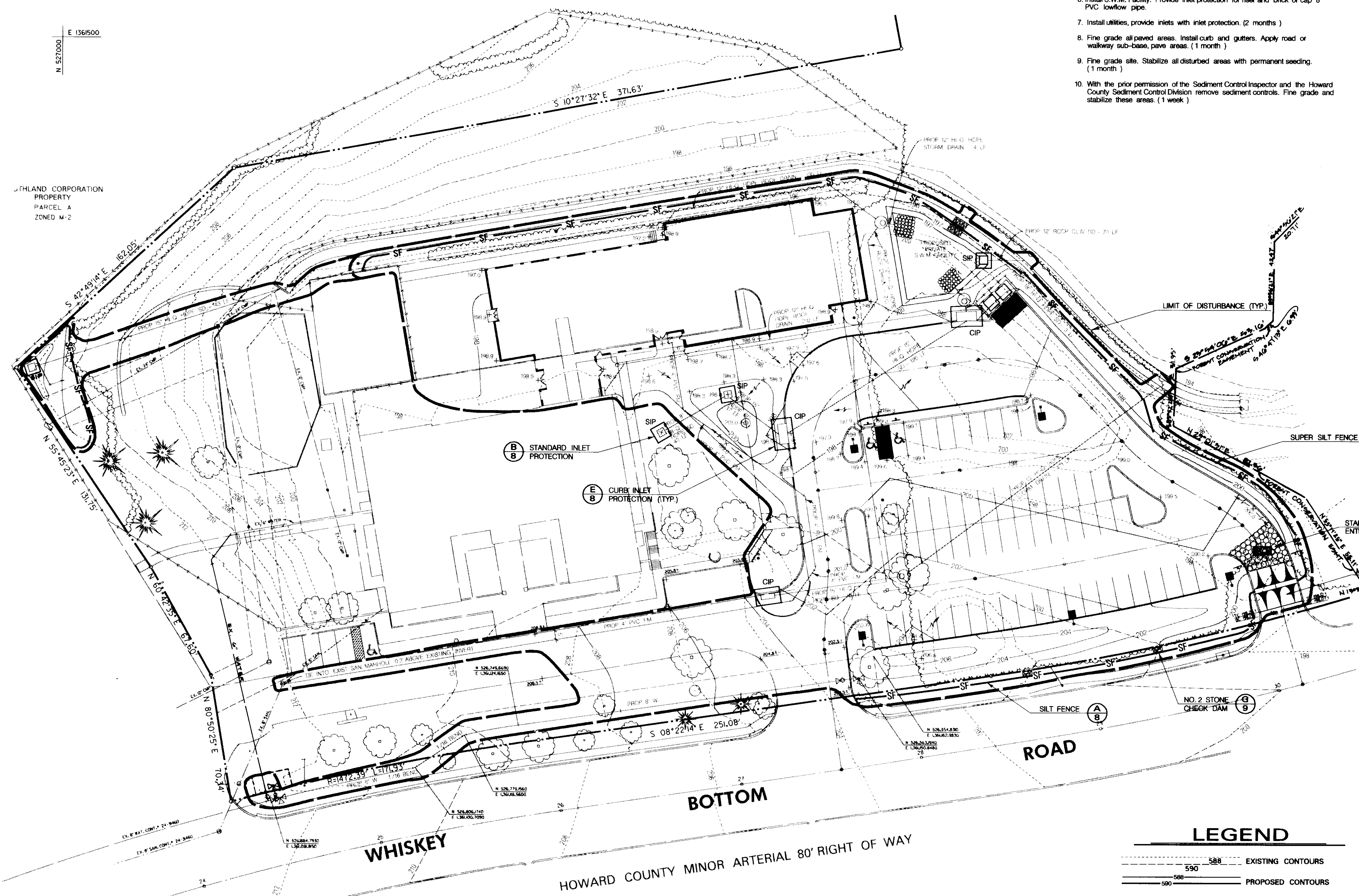
By the Engineer:
 I certify that this plan for ~~sediment control~~ erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. ~~These plans are prepared and submitted to the Howard Soil Conservation District with an understanding that the Howard Soil Conservation District will not conduct on-site inspections by the Howard Soil Conservation District.~~

John W. Ruppel, Sr. 4/14/97
 Signature of Engineer Date
 Print name below signature
John W. Ruppel, Sr.

Reviewed for Howard Soil Conservation District and meets Technical Requirements.

Cheyl Simmons 6/6/97
 Signature of Natural Resources Conservation Specialist Date
 Print name below signature
Cheyl Simmons

This Development Plan is Approved for Soil Erosion and Sediment Control by the Howard Soil Conservation District.
John C. Harlan 6/16/97
 Signature of Howard Soil Conservation District Director Date
 Print name below signature
John C. Harlan

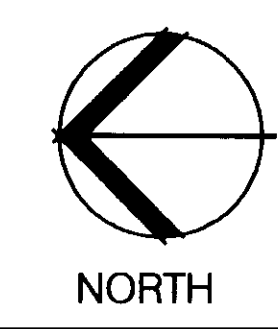


N 527000
 E 1361500

J. HILLAND CORPORATION
 PROPERTY
 PARCEL A
 ZONED M-2

E 1361500
 N 527000

- ### LEGEND
- 588 --- EXISTING CONTOURS
 - 590 --- PROPOSED CONTOURS
 - SF --- SF --- SF --- LIMIT OF DISTURBANCE (LOD)
 - SF --- SF --- SF --- PROPOSED SILT FENCE
 - [Symbol] PROPOSED STABILIZED CONSTRUCTION ENTRANCE
 - [Symbol] PROPOSED NO. 2 STONE CHECK DAM
 - [Symbol] PROPOSED INLET PROTECTION
 - [Symbol] PROPOSED MOUNTABLE BERM



4/10/97
 Date



AREA OF DISTURBANCE:
 91564 S.F. - 2.10 ACRES

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

<i>John C. Harlan</i>	4/10/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>John C. Harlan</i>	4/12/97
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>John C. Harlan</i>	6/13/97
DIRECTOR	DATE

Date	No.	Revision Description

School for Contemporary Education Building Addition

Howard County, Maryland

OWNER / DEVELOPER
 School For Contemporary Education
 8920 Whiskey Bottom Road
 Laurel, Maryland 20723

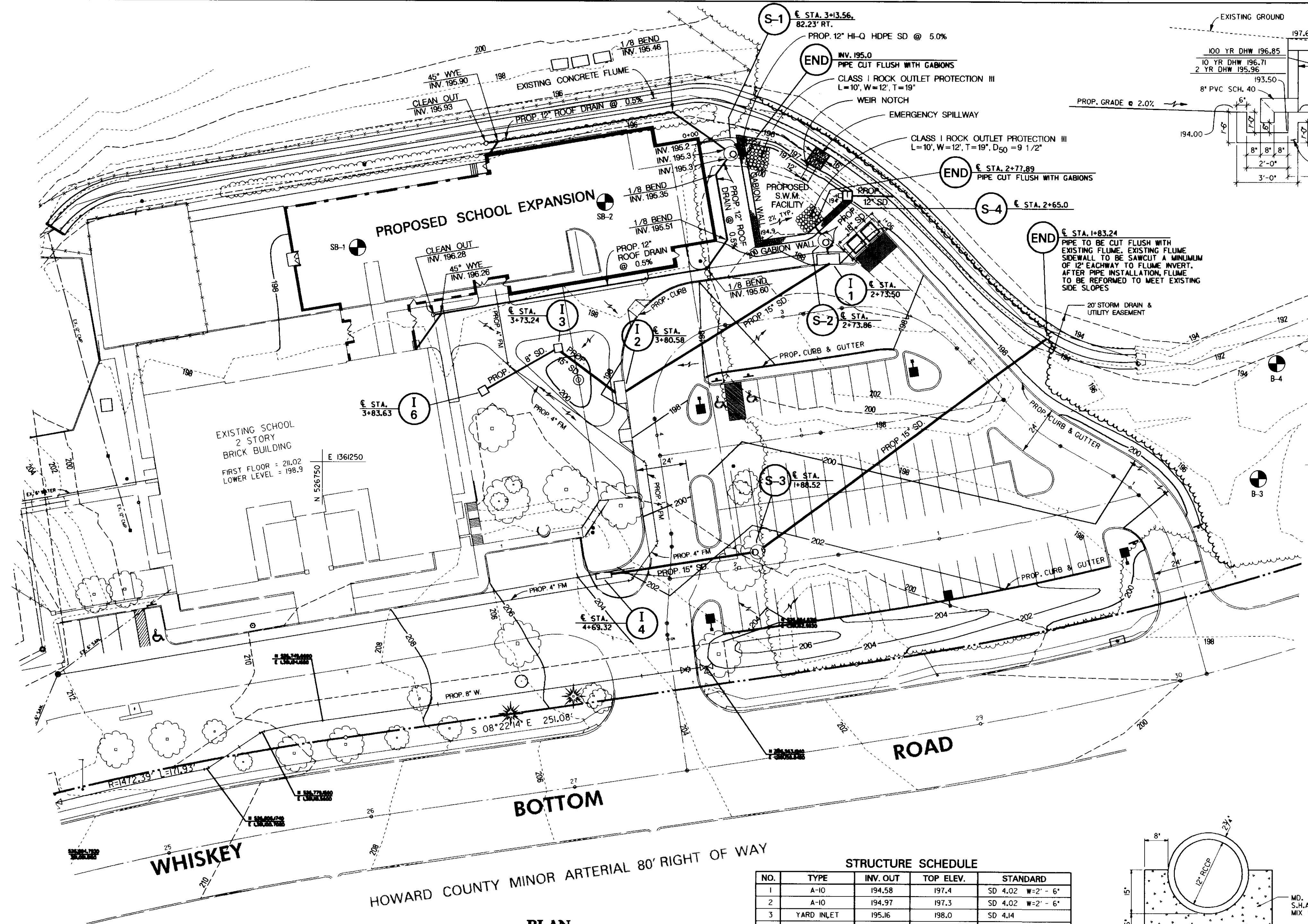
DMW
 DaR-McCune-Walker, Inc.
 200 East Pennsylvania Avenue
 Potosi, Maryland 21286
 (410) 296-4333
 Fax 296-4706

A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

SECTION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION AREA	N/A	OF PAGES	7
MAP OR LOT	10207	BLK/PT	5	TOT MAP	M-2 50
PLAT	10207	BLK/PT	M-2	LOCAL DISTRICT	6TH
WATER CODE		SEWER CODE		CINEMA TRACT	6069.03

TITLE
EROSION AND SEDIMENT CONTROL

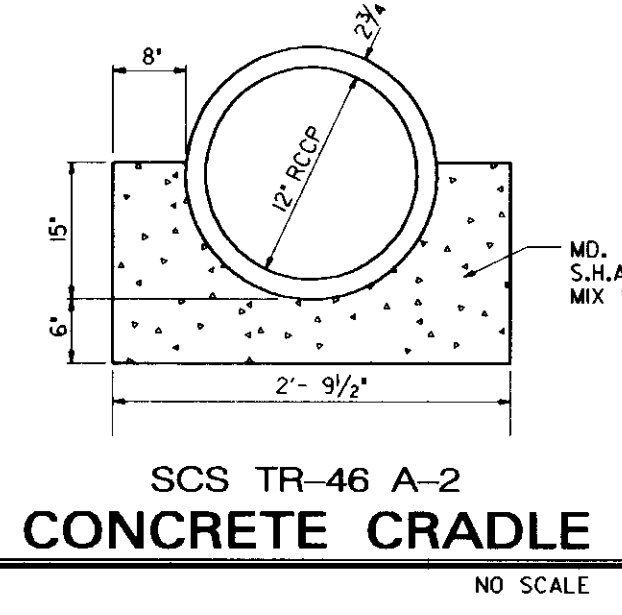
Des By	MM	Scale	1" = 30'	Proj. No.	96065
Dm By	MSS	Date	1-10-97		
Chk By	MK	Approved			



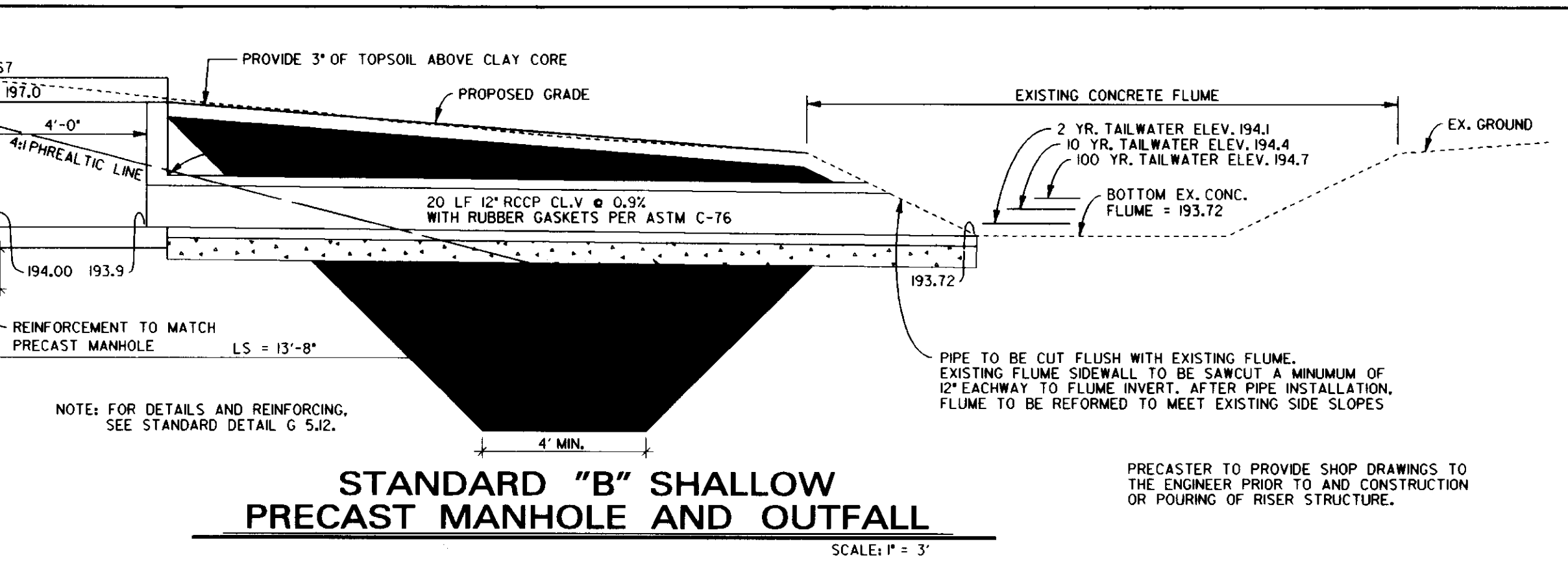
PLAN
SCALE: 1" = 30'

STRUCTURE SCHEDULE

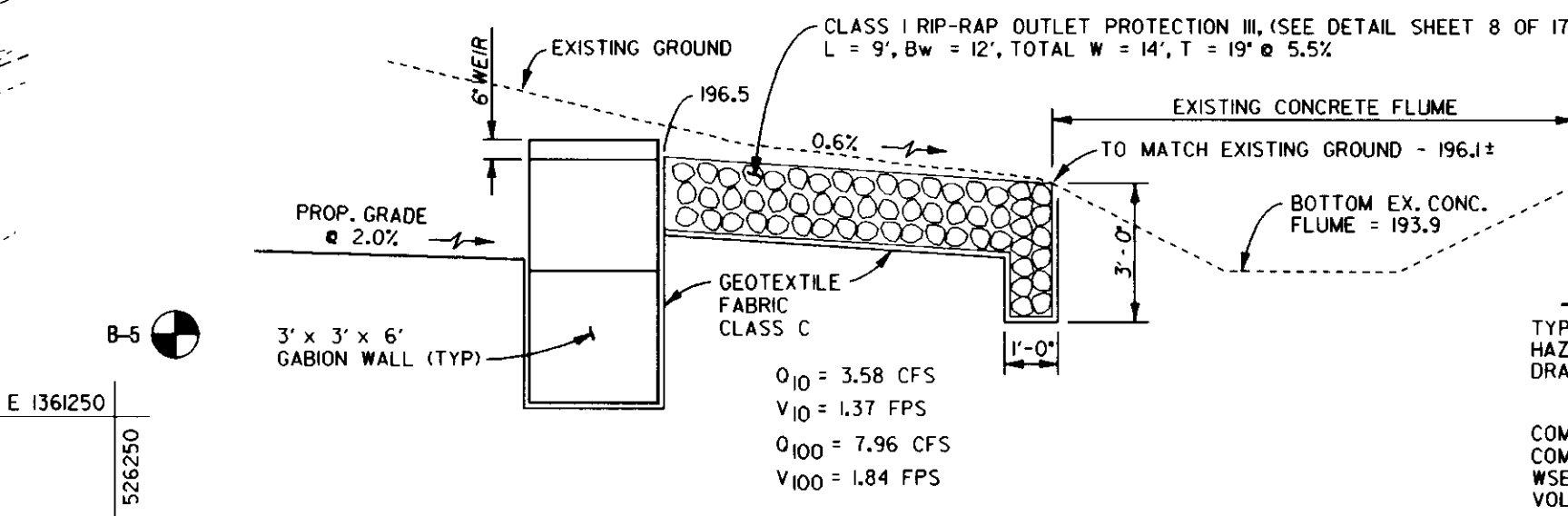
NO.	TYPE	INV. OUT	TOP ELEV.	STANDARD
1	A-10	194.58	197.4	SD 4.02 W=2' - 6"
2	A-10	194.97	197.3	SD 4.02 W=2' - 6"
3	YARD INLET	195.16	198.0	SD 4J4
4	WR GRATE	196.00	202.8	SD 4J5
5	TYPE 'D' INLET	207.49	218.3	SD 4J1
6	YARD INLET	196.8	198.2	SD 4J4
S-1	STORMCEPTOR	195.20	197.5	SEE DETAIL 5 OF 17
S-2	STORMCEPTOR	194.44	197.3	SEE DETAIL 5 OF 17
S-3	STORMCEPTOR	195.40	202.6	SEE DETAIL 5 OF 17
S-4	SEE DETAIL	193.9	197.67	G 5J2 (MODIFIED)



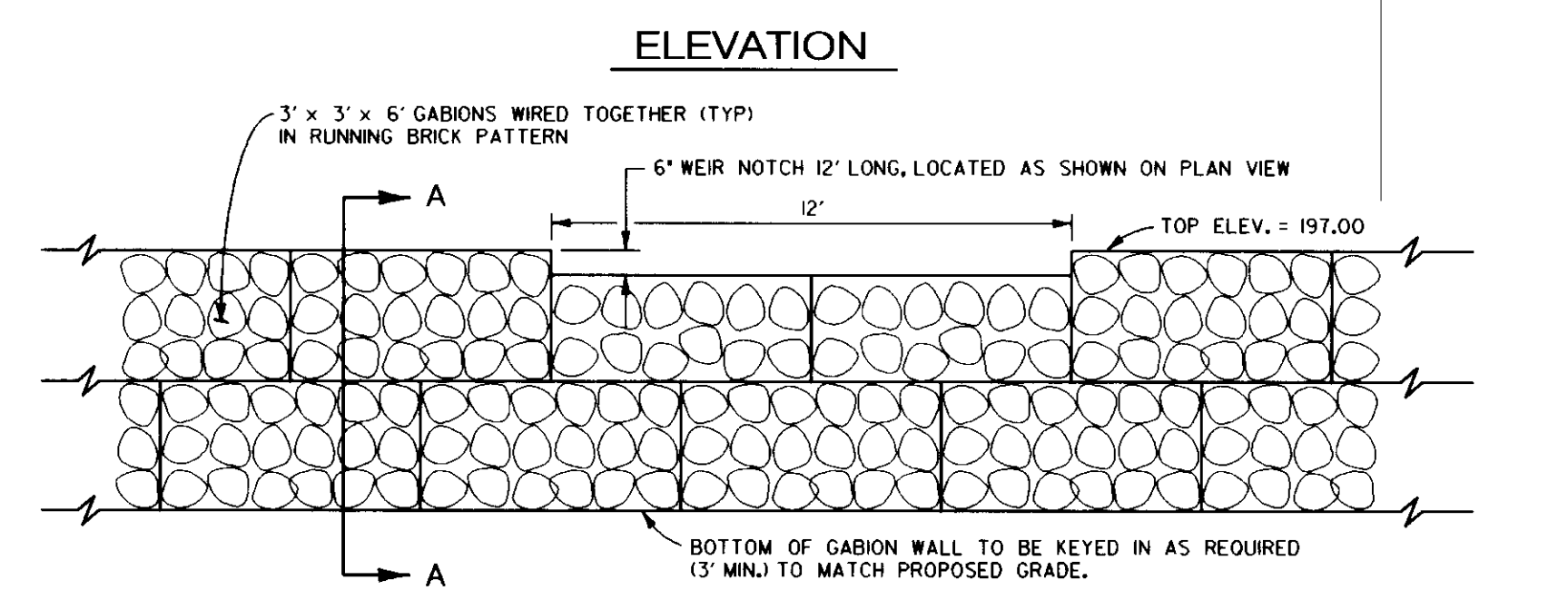
SCS TR-46 A-2 CONCRETE CRADLE
NO SCALE



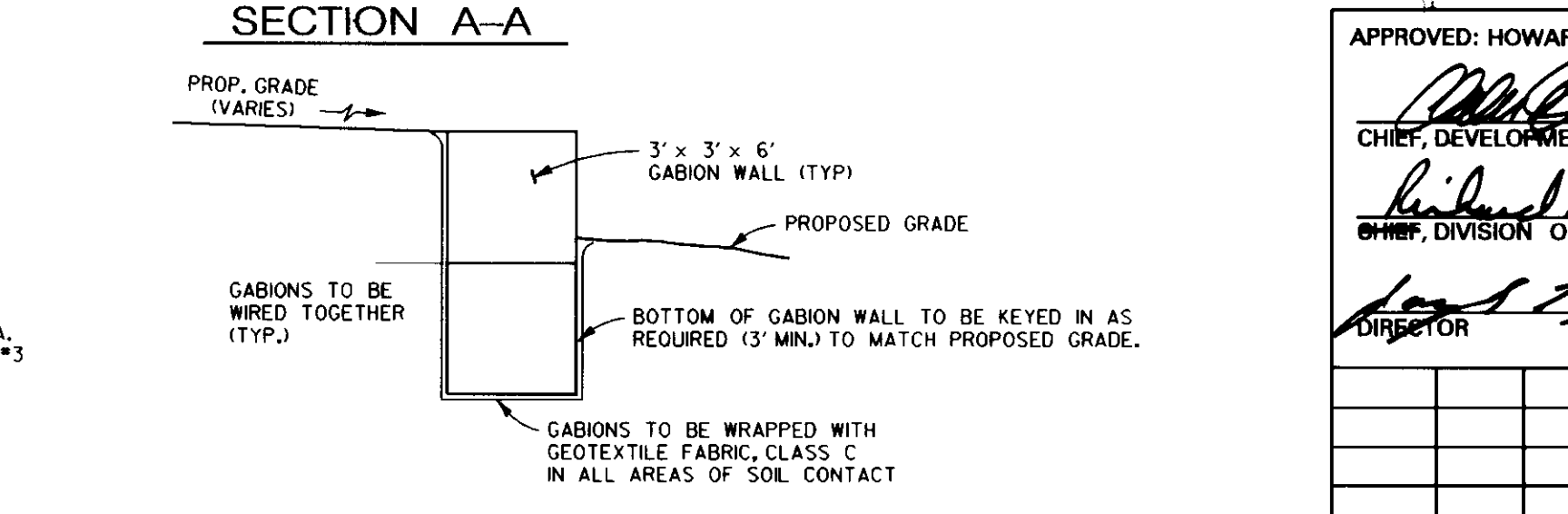
STANDARD "B" SHALLOW PRECAST MANHOLE AND OUTFALL
SCALE: 1" = 3'



PROFILE - EMERGENCY SPILLWAY
SCALE: 1" = 3'



ELEVATION



SECTION A-A

TYPICAL DETAILS OF GABION WALL
SCALE: 1" = 3'

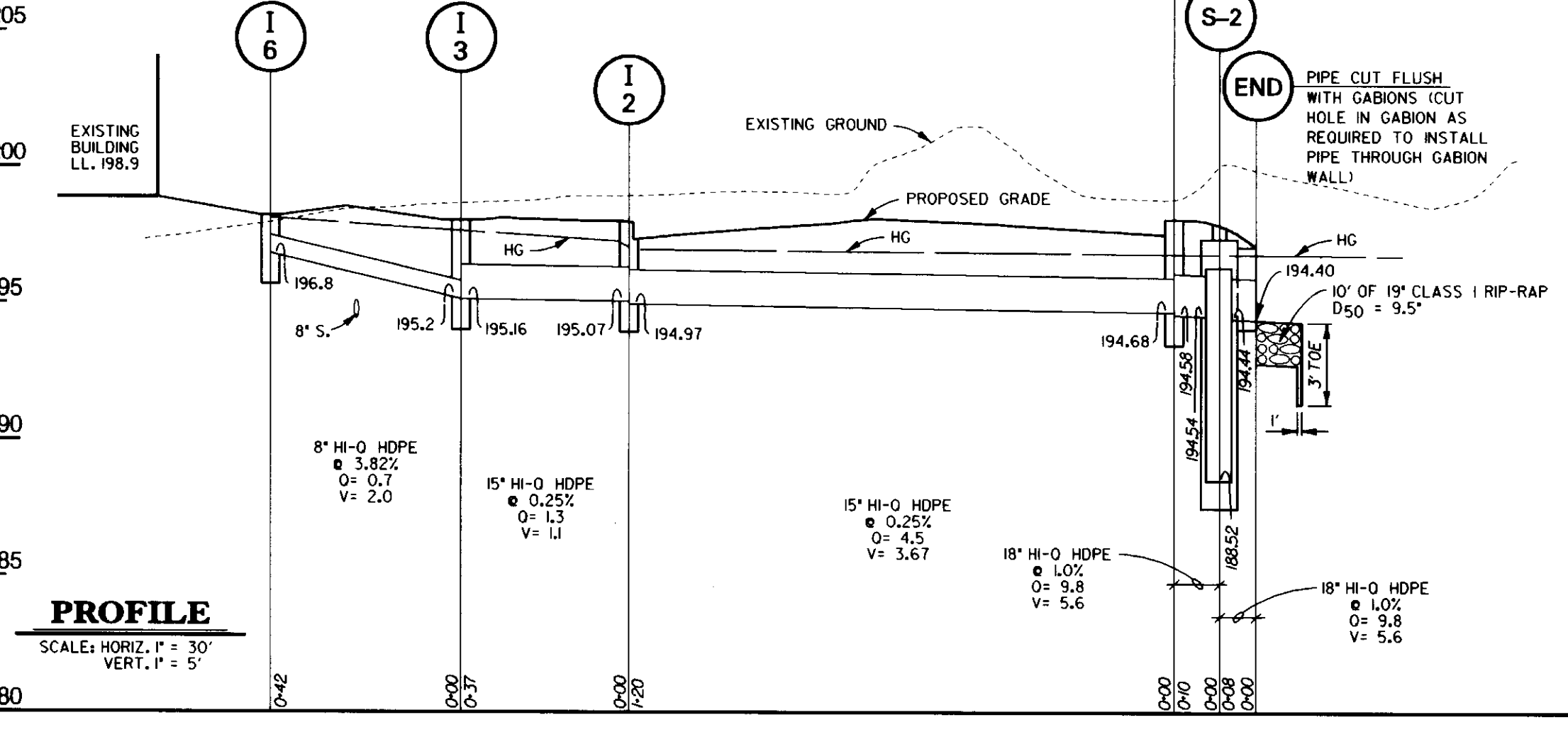
SWM FACILITY SUMMARY TABLE

TYPE: DRY FACILITY
HAZARD CLASSIFICATION: A
DRAINAGE AREA: 166 ACRES

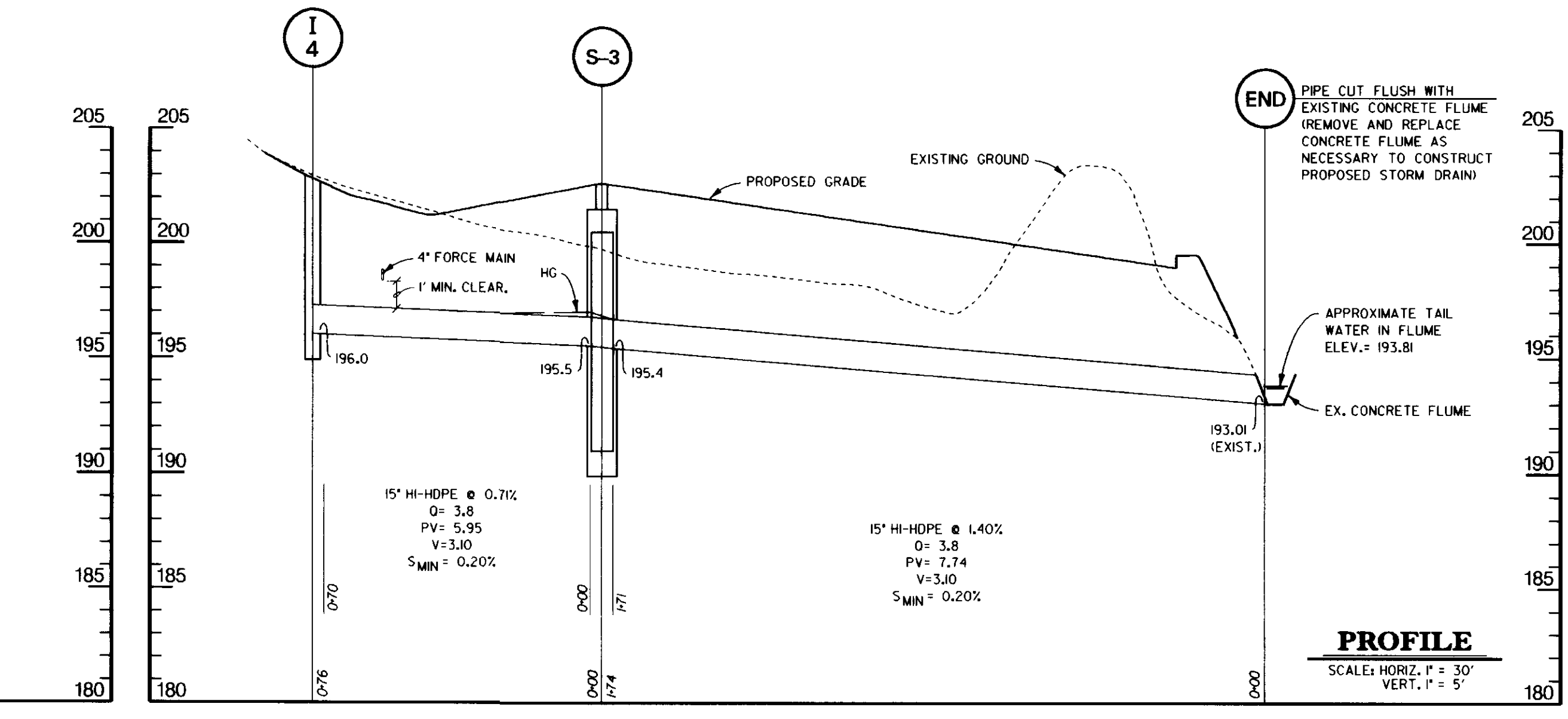
	2 YEAR	10 YEAR	100 YEAR
COMPUTED INFLOW:	3.7 CFS	7.4 CFS	11.6 CFS
COMPUTED DISCHARGE:	1.8 CFS	7.4 CFS	11.4 CFS
WS1:	195.96	196.71	196.85
VOLUME PROVIDED:	1940 CF	2960 CF	3500 CF

STORMWATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN ARE PRIVATE AND ARE TO BE MAINTAINED BY THE OWNER.

- DRY FACILITY MAINTENANCE SCHEDULE**
1. DRY FACILITY TO BE INSPECTED AFTER EACH MAJOR STORM EVENT OR ANNUALLY, WHICHEVER IS SHORTER.
 2. ALL ACCUMULATED PAPER, TRASH AND DEBRIS IS TO BE REMOVED ON AS NEEDED BASIS BY THE OWNER.
 3. SILT IS TO BE REMOVED WHEN ACCUMULATIONS EXCEED SIX (6) INCHES WITHIN THE FACILITY.
 4. MOW A MINIMUM OF TWICE EACH GROWING SEASON OR WHEN VEGETATION GROWING ON THE EMBANKMENT OR WITHIN THE FACILITY REACHES 18 INCHES IN HEIGHT AT ANY TIME.
 5. VISIBLE SIGNS OF EROSION IN THE FACILITY AS WELL AS RIP-RAP OUTLET AREAS SHALL BE REPAIRED AS SOON AS IT IS NOTICED.



PROFILE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 5'



PROFILE
SCALE: HORIZ. 1" = 30'
VERT. 1" = 5'

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Chief Development Engineering Division: *[Signature]* 6/10/97 DATE

Division of Land Development SA: *[Signature]* 6/10/97 DATE

Director: *[Signature]* 6/10/97 DATE

School for Contemporary Education Building Addition
Howard County, Maryland

OWNER / DEVELOPER
School for Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723

DMW
Duff-McCune-Walkers, Inc.
300 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 298-3333
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A Team of Land Planners,
Landscape Architects,
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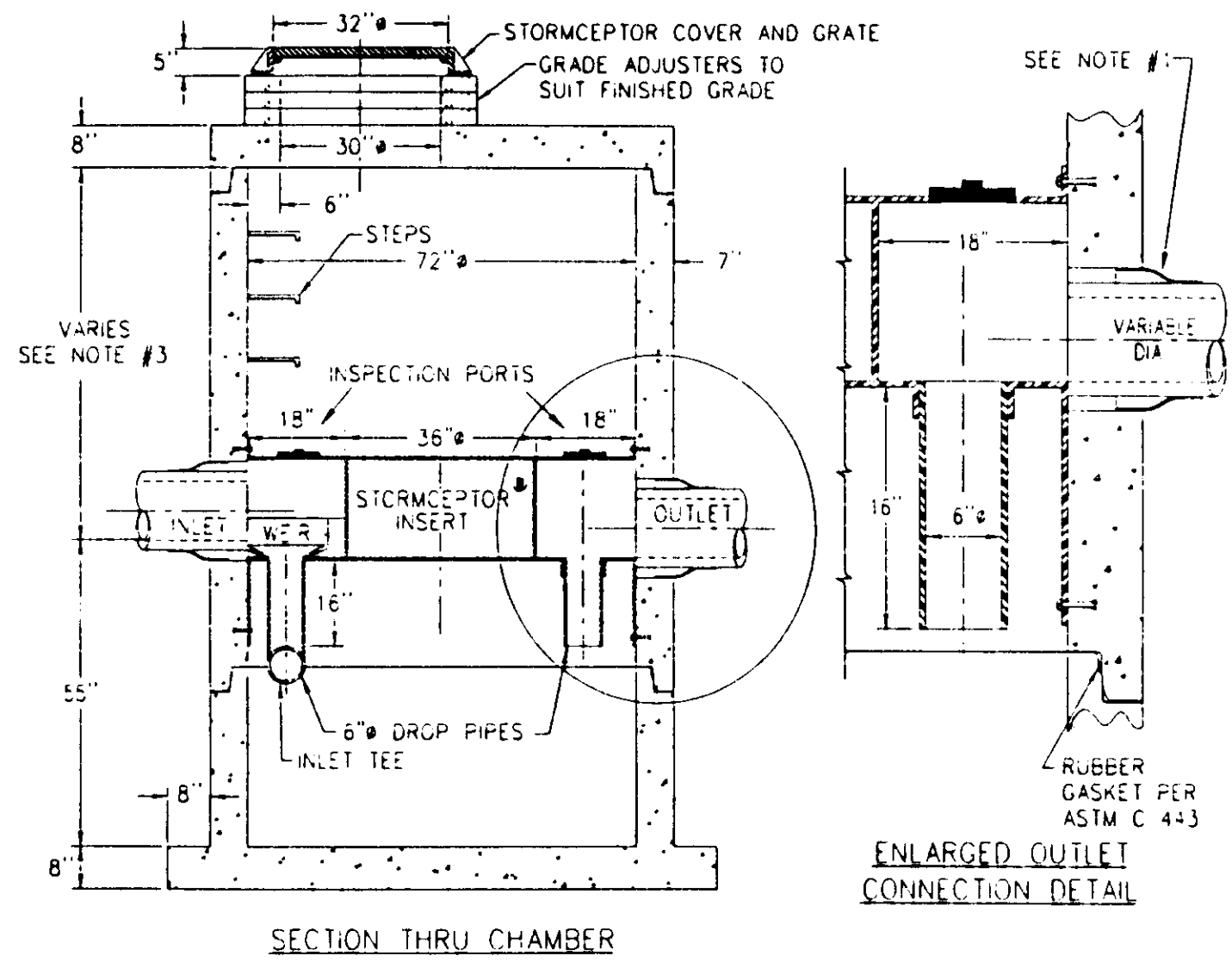
OWNER NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION / AREA	N / A	PT. PARCEL #
10007	5	MA-2	5TH	6069.03

S.W.M. & STORM DRAINS
PLAN - PROFILES - DETAILS

Des By	MM	Scale	As Shown	Proj. No.	96065
Drn By	MSS	Date	1-10-97		
Chk By	MK	Approved			

Professional Engineer Number: 1051

STC 900 Precast Concrete Stormceptor®
(900 US Gallon Capacity)

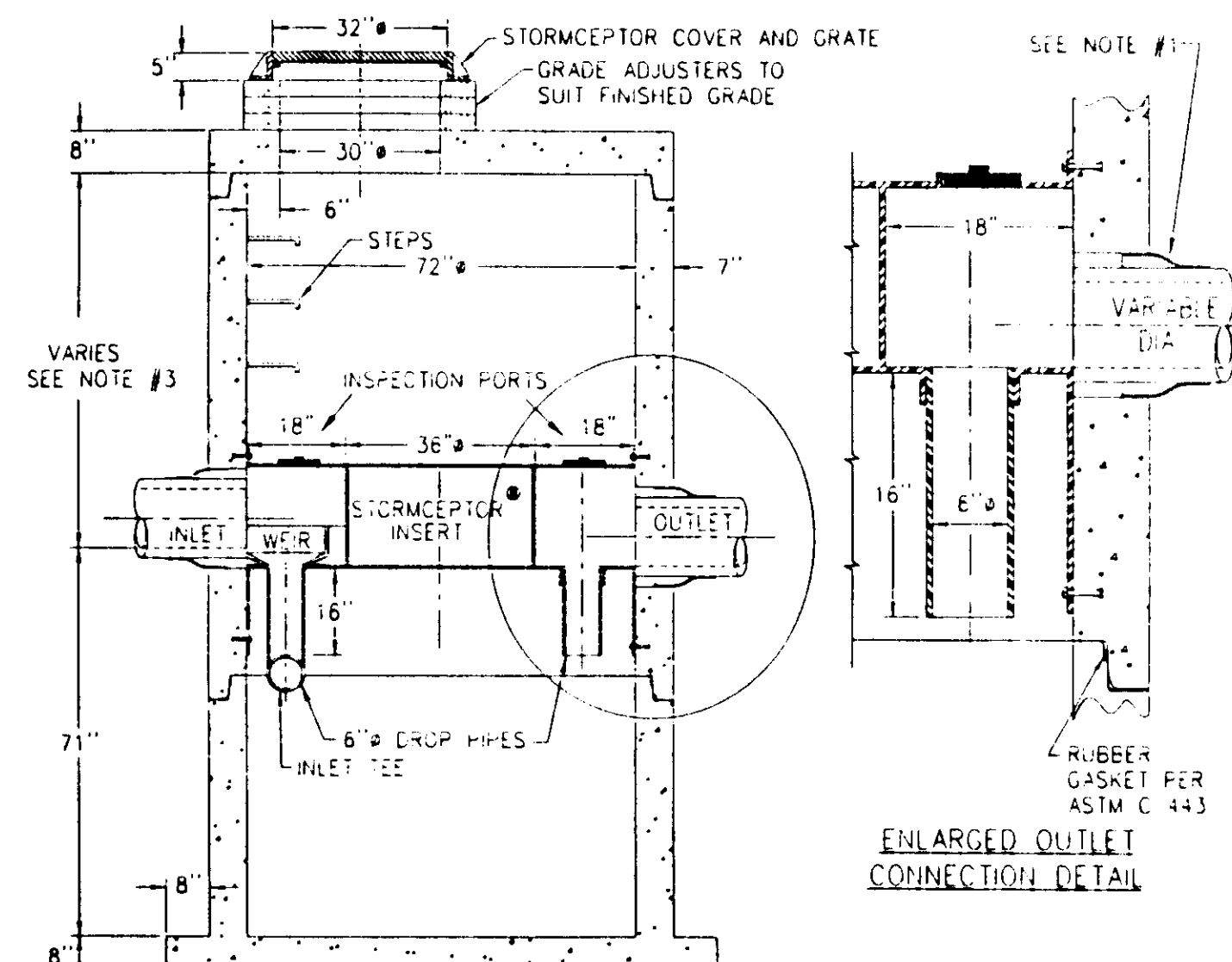


DESIGN SPECIFICATIONS
1. ASTM C 478
2. BASE WEIGHT = 6.46 TONS

- NOTE:
1. CSR RECOMMENDS THE USE OF FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET WHERE APPLICABLE.
2. COVER TO BE POSITIONED OVER INLET INSPECTION PORT.
3. THIS IS A GENERAL ARRANGEMENT DRAWING. CONSULT LOCAL REPRESENTATIVE FOR SPECIAL CONDITIONS.

SIC-910
REVISED 5/96

STC 1200 Precast Concrete Stormceptor®
(1200 US Gallon Capacity)



DESIGN SPECIFICATIONS
1. ASTM C 478
2. BASE WEIGHT = 7.60 TONS

- NOTE:
1. CSR RECOMMENDS THE USE OF FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET WHERE APPLICABLE.
2. COVER TO BE POSITIONED OVER INLET INSPECTION PORT.
3. THIS IS A GENERAL ARRANGEMENT DRAWING. CONSULT LOCAL REPRESENTATIVE FOR SPECIAL CONDITIONS.

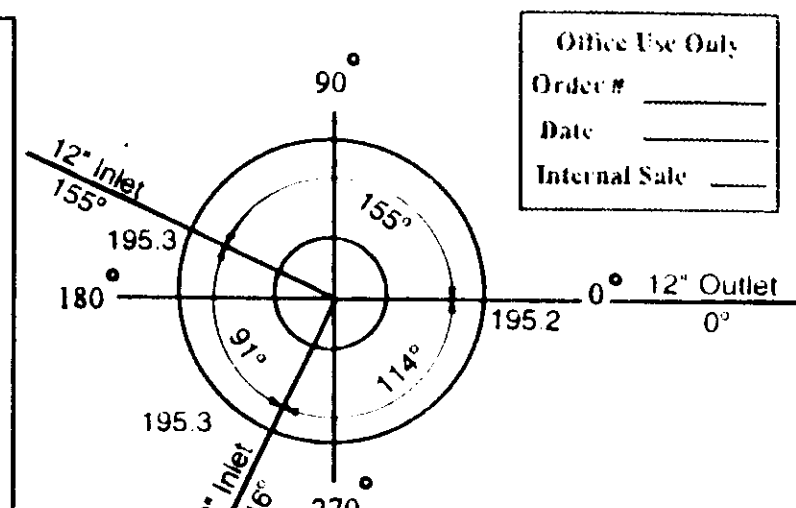
SIC-200
REVISED 5/96

OPERATION AND MAINTENANCE SCHEDULE FOR
STORMCEPTOR WATER QUALITY DEVICE

- The Stormceptor water quality structure shall be periodically inspected and cleaned to maintain operation and function. The owner shall inspect the Stormceptor unit yearly at a minimum, utilizing the Stormceptor Inspection/Monitoring Form. Inspections shall be done by using a clear Plexiglass tube ("sludge judge") to extract a water column sample. When the sediment depths exceed the level specified in Table 6 of the Stormceptor Technical Manual, the unit must be cleaned.
- The Stormceptor water quality structure shall be checked and cleaned immediately after petroleum spills. The owner shall contact the appropriate regulatory agencies.
- The maintenance of the Stormceptor unit shall be done using a vacuum truck which will remove the water, sediment, debris, floating hydrocarbons and other materials in the unit. Proper cleaning and disposal of the removed materials and liquid must be followed by the owner.
- The inlet and outlet pipes shall be checked for any obstructions at least once every six months. If obstructions are found the owner shall have them removed. Structural parts of the Stormceptor unit shall be repaired as needed.
- The owner shall retain and make the Stormceptor Inspection/Monitoring Forms available to the Howard County officials upon their request.

Concrete Stormceptor® Order Request Form *

Contractor Information
Name: _____ To be determined
Address: _____
City: _____
State: _____
Zip Code: _____
Contact: _____
Phone: _____
Fax: _____



Office Use Only
Order # _____
Date: _____
Internal Sale _____

Owner Information
Name: School for Contemporary Education
Phone: c/o Crispin Ethenington
Fax: (410) 266-7990
(410) 266-6554

Please draw orientation of inlet and outlet pipes on diagram along with pipe inside diameter (in) and invert elevation (ft). Clearly mark inlet pipes with an I and outlet pipes with an O and provide the inlet/outlet pipe angle in degrees.

Stormceptor® Model

900	<input checked="" type="checkbox"/>	3600	<input type="checkbox"/>
1200	<input type="checkbox"/>	4800	<input type="checkbox"/>
1800	<input type="checkbox"/>	6000	<input type="checkbox"/>
2400	<input type="checkbox"/>	7200	<input type="checkbox"/>

Insert Size

22"	<input type="checkbox"/>
32"	<input type="checkbox"/>
44"	<input type="checkbox"/>
Custom	<input type="checkbox"/>

Manhole Number

S-1	<input checked="" type="checkbox"/>
197.5	<input type="checkbox"/>
195.3	<input type="checkbox"/>
195.2	<input type="checkbox"/>

Pipe Type HDPE HI-Q

Pipe Inside Diameter (in) [ID]	12"
Pipe Outside Diameter (in) [OD]	14.2"

Project Name School for Contemporary Education
Approximate time frame until required delivery (weeks) Mid to end of June
Delivery Address: Street 8920 Whiskey Bottom Road
City Laurel State Maryland Zip Code 20723
Designer Company Daft McCune-Walker, Inc.
Designer Contact Charles Wilson Jr. Phone (410) 296-3333 Fax (410) 296-4705

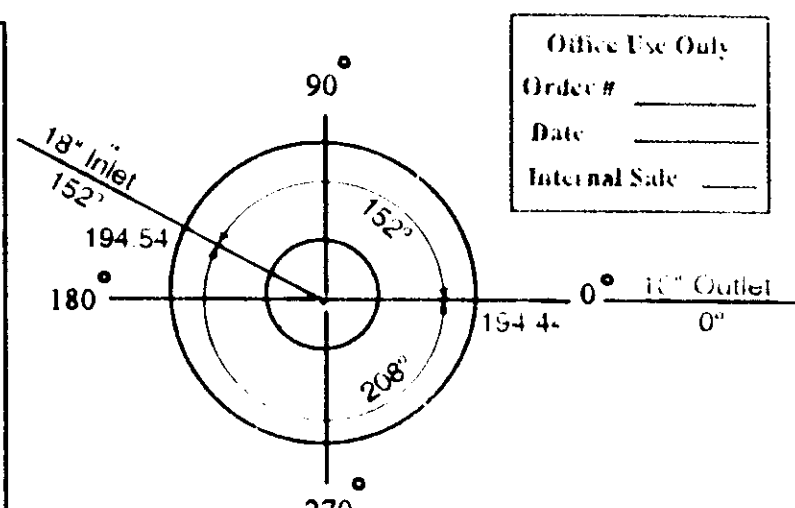
Please fax this order to Stormceptor at (301) 762-4190
For Technical Assistance Please Call Stormceptor Corporation at
(301) 762-8361 or toll free at 1 (800) 762-4703

ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR

* TO BE INCLUDED ON SWM PLAN BY DESIGNER

Concrete Stormceptor® Order Request Form *

Contractor Information
Name: _____ To be determined
Address: _____
City: _____
State: _____
Zip Code: _____
Contact: _____
Phone: _____
Fax: _____



Office Use Only
Order # _____
Date: _____
Internal Sale _____

Owner Information
Name: School for Contemporary Education
Phone: c/o Crispin Ethenington
Fax: (410) 266-7990
(410) 266-6554

Please draw orientation of inlet and outlet pipes on diagram along with pipe inside diameter (in) and invert elevation (ft). Clearly mark inlet pipes with an I and outlet pipes with an O and provide the inlet/outlet pipe angle in degrees.

Stormceptor® Model

900	<input type="checkbox"/>	3600	<input type="checkbox"/>
1200	<input checked="" type="checkbox"/>	4800	<input type="checkbox"/>
1800	<input type="checkbox"/>	6000	<input type="checkbox"/>
2400	<input type="checkbox"/>	7200	<input type="checkbox"/>

Insert Size

22"	<input type="checkbox"/>
32"	<input type="checkbox"/>
44"	<input type="checkbox"/>
Custom	<input type="checkbox"/>

Manhole Number

S-2	<input checked="" type="checkbox"/>
197.3	<input type="checkbox"/>
194.54	<input type="checkbox"/>
194.4	<input type="checkbox"/>

Pipe Type HDPE HI-Q

Pipe Inside Diameter (in) [ID]	18"
Pipe Outside Diameter (in) [OD]	21.5"

Project Name School for Contemporary Education
Approximate time frame until required delivery (weeks) Mid to end of June
Delivery Address: Street 8920 Whiskey Bottom Road
City Laurel State Maryland Zip Code 20723
Designer Company Daft McCune-Walker, Inc.
Designer Contact Charles Wilson Jr. Phone (410) 296-3333 Fax (410) 296-4705

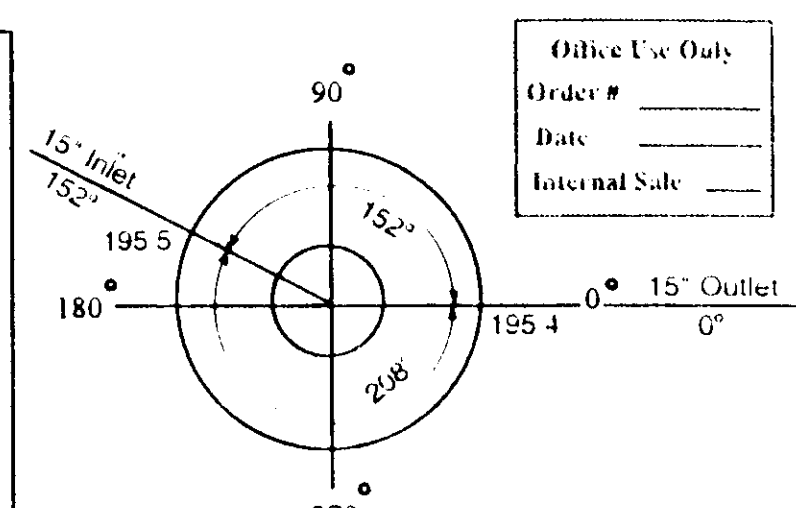
Please fax this order to Stormceptor at (301) 762-4190
For Technical Assistance Please Call Stormceptor Corporation at
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ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR

* TO BE INCLUDED ON SWM PLAN BY DESIGNER

Concrete Stormceptor® Order Request Form *

Contractor Information
Name: _____ To be determined
Address: _____
City: _____
State: _____
Zip Code: _____
Contact: _____
Phone: _____
Fax: _____



Office Use Only
Order # _____
Date: _____
Internal Sale _____

Owner Information
Name: School for Contemporary Education
Phone: c/o Crispin Ethenington
Fax: (410) 266-7990
(410) 266-6554

Please draw orientation of inlet and outlet pipes on diagram along with pipe inside diameter (in) and invert elevation (ft). Clearly mark inlet pipes with an I and outlet pipes with an O and provide the inlet/outlet pipe angle in degrees.

Stormceptor® Model

900	<input type="checkbox"/>	3600	<input type="checkbox"/>
1200	<input type="checkbox"/>	4800	<input type="checkbox"/>
1800	<input type="checkbox"/>	6000	<input type="checkbox"/>
2400	<input type="checkbox"/>	7200	<input type="checkbox"/>

Insert Size

22"	<input type="checkbox"/>
32"	<input type="checkbox"/>
44"	<input type="checkbox"/>
Custom	<input type="checkbox"/>

Manhole Number

S-3	<input checked="" type="checkbox"/>
202.6	<input type="checkbox"/>
195.5	<input type="checkbox"/>
195.4	<input type="checkbox"/>

Pipe Type HDPE HI-Q

Pipe Inside Diameter (in) [ID]	15"
Pipe Outside Diameter (in) [OD]	17.7"

Project Name School for Contemporary Education
Approximate time frame until required delivery (weeks) Mid to end of June
Delivery Address: Street 8920 Whiskey Bottom Road
City Laurel State Maryland Zip Code 20723
Designer Company Daft McCune-Walker, Inc.
Designer Contact Charles Wilson Jr. Phone (410) 296-3333 Fax (410) 296-4705

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ALL LIFTING APPARATUS TO BE PROVIDED BY THE INSTALLATION CONTRACTOR

* TO BE INCLUDED ON SWM PLAN BY DESIGNER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

McCombes 6/10/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Richard Blood 6/12/97
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Joseph Butler 6/12/97
DIRECTOR DATE

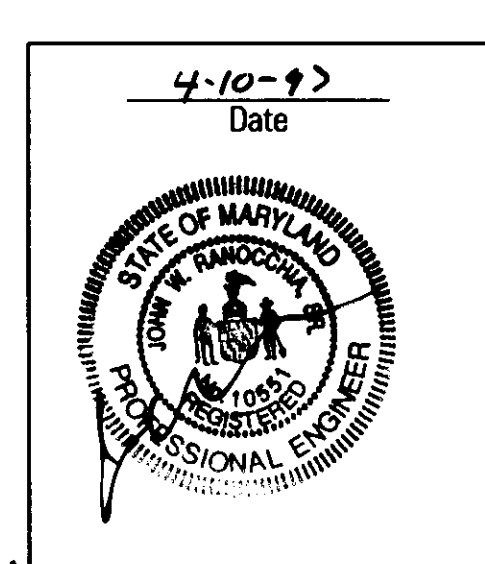
Date	No.	Revision Description

School for Contemporary
Education Building Addition
Howard County, Maryland

OWNER /DEVELOPER
School For Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723

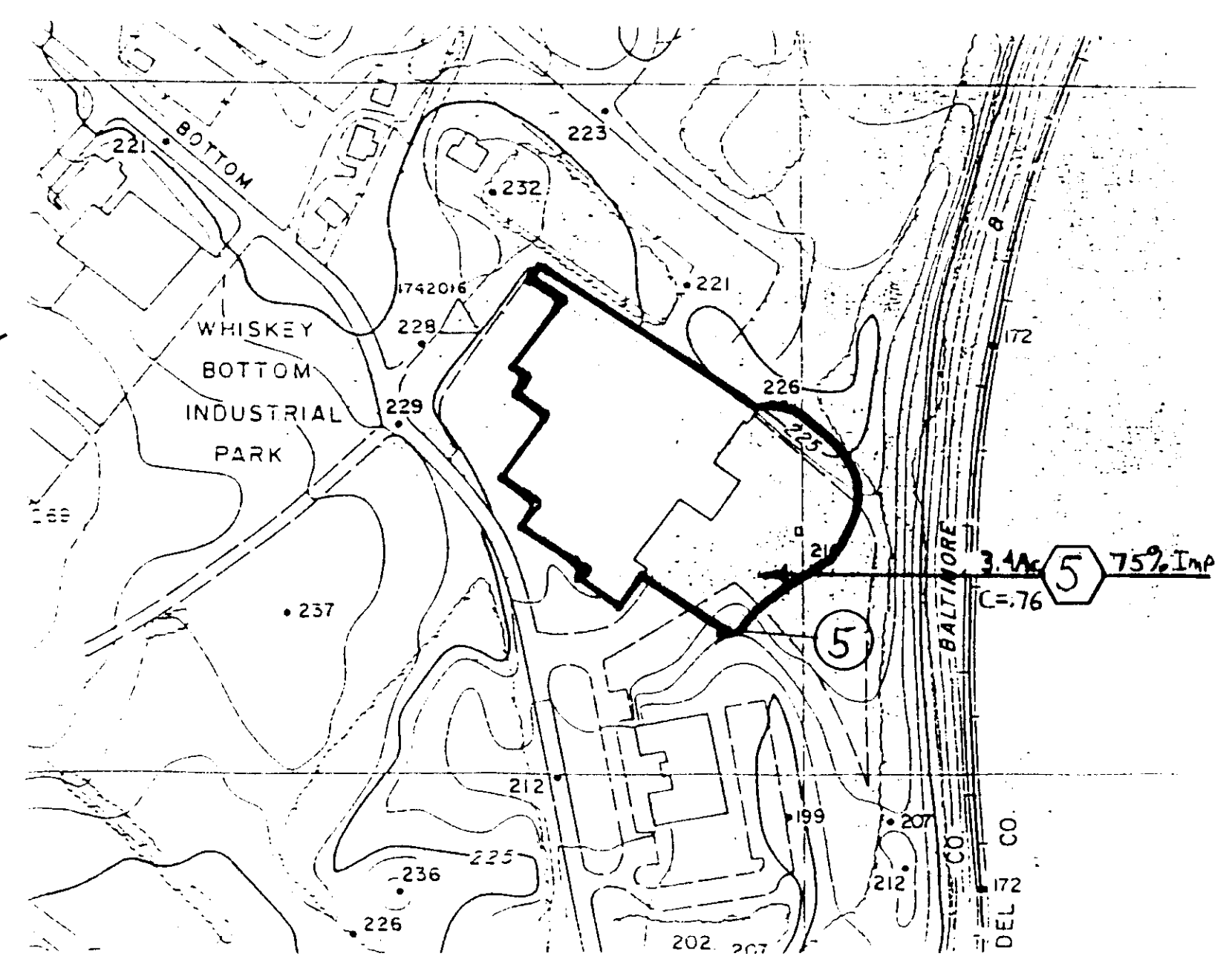
DMW
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A Team of Land Planners,
Landscape Architects,
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Environmental Professionals

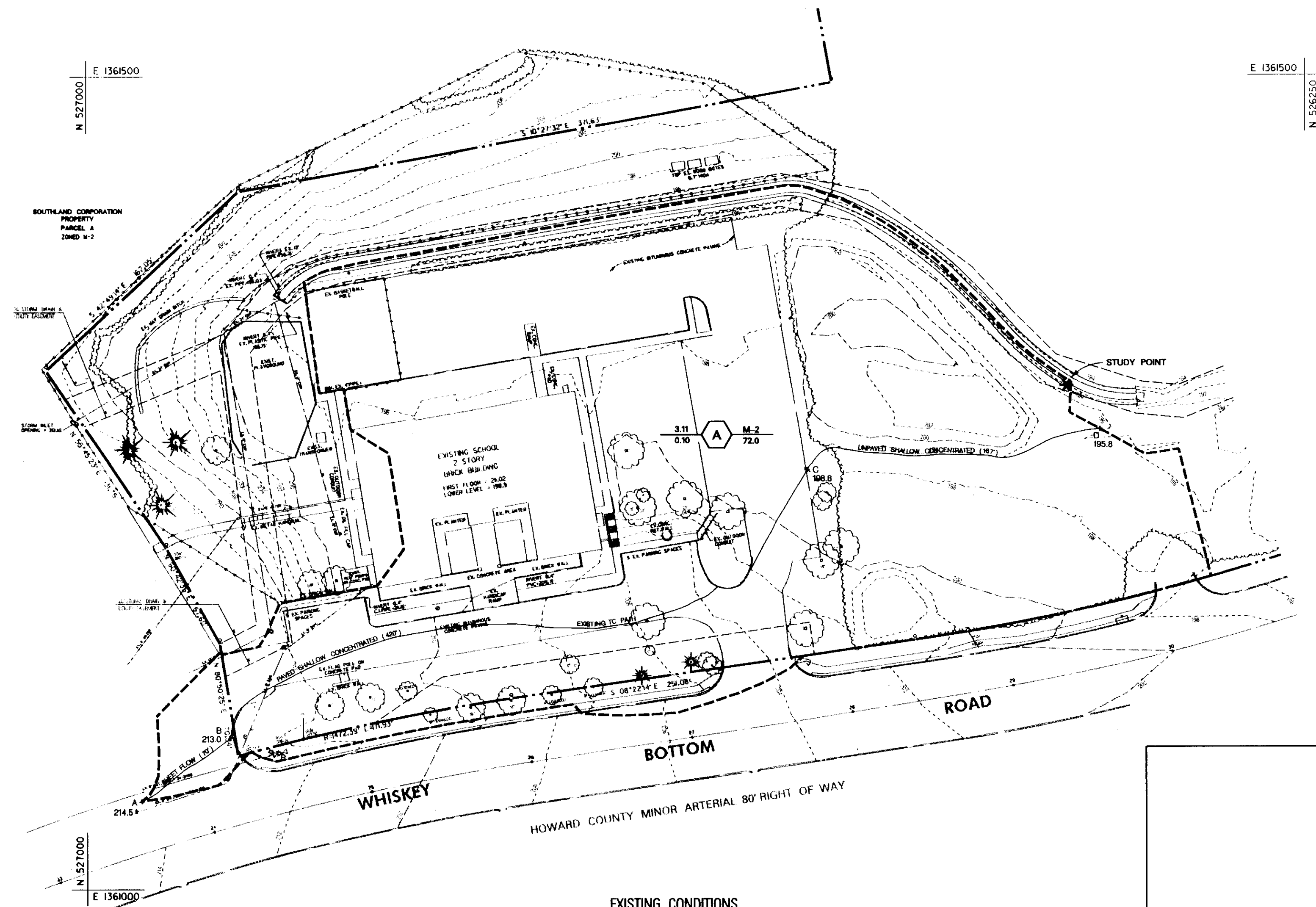


STORMCEPTOR DETAILS

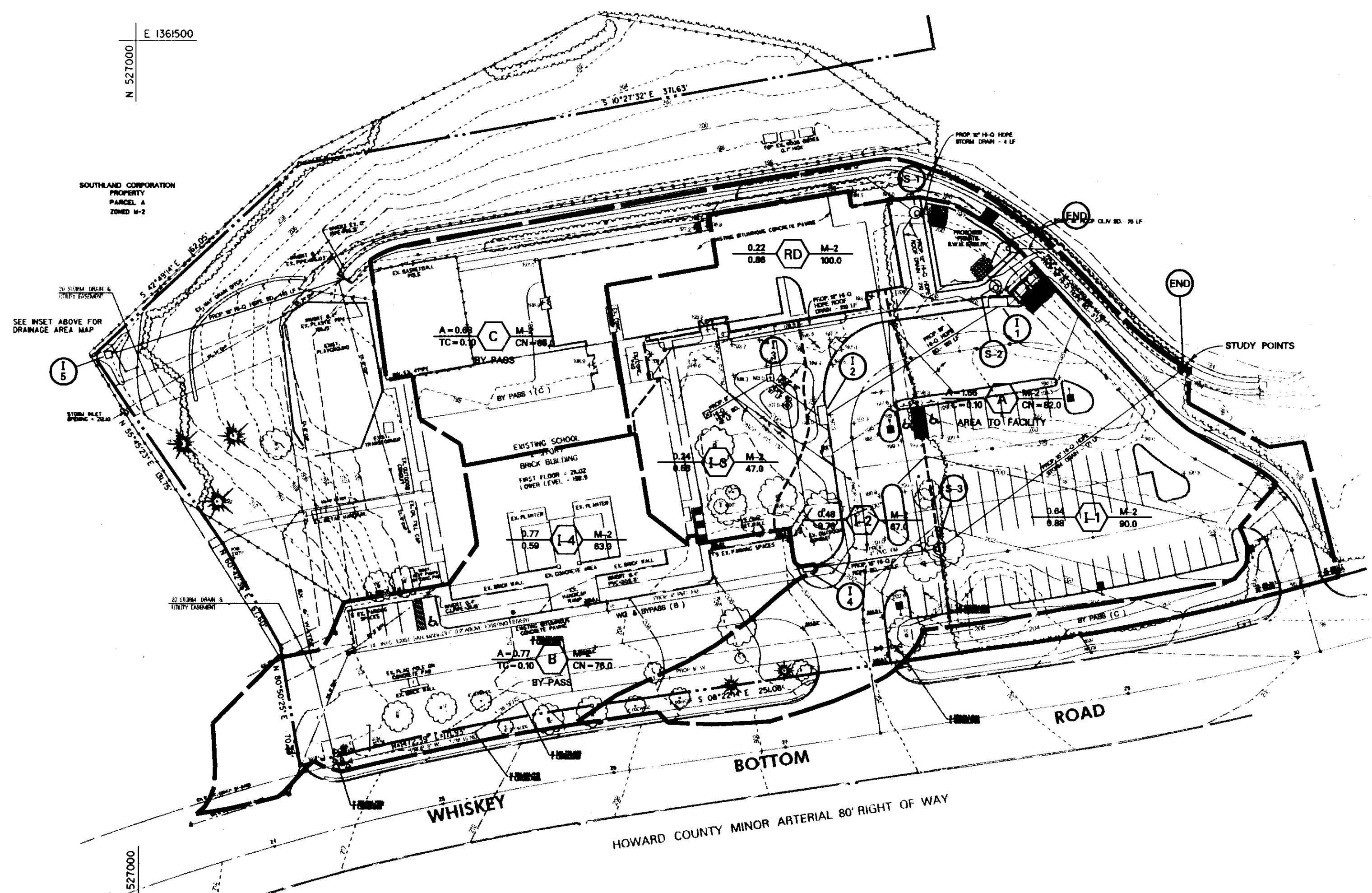
Des By	MM	Scale	As Shown	Proj. No.	96065
Dim By	TPC	Date	1-10-97	5 of 16	
Chk By	Approved	Professional Engineer Number: 19551			



INSET STORM DRAIN
DRAINAGE AREA MAP
SCALE: 1"=200'

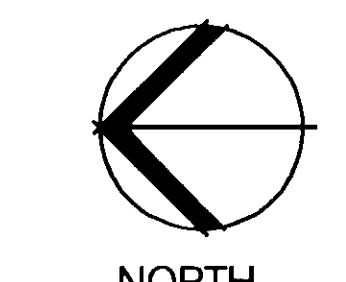


EXISTING CONDITIONS
DRAINAGE AREA MAP
SCALE: 1"=50'



STORM DRAIN & STORM WATER MANAGEMENT
DRAINAGE AREA MAP
SCALE: 1"=50'

- LEGEND**
- STORM WATER DRAINAGE AREAS
 - STORM DRAIN DRAINAGE AREAS
 - A=1.68 TC=0.10 A M-2 CN=82.0 STORM WATER DRAINAGE AREA
 - 0.48 L-2 M-2 STORM DRAIN DRAINAGE AREA
- NOTE: ALL SOILS WITHIN THE DRAINAGE AREAS ARE SOILS TYPE GD; HYDROLOGIC SOILS GROUP A.



4/10/97
Date

Professional Engineer Number: 1351

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

<i>John D. ...</i>	6/10/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE
<i>Richard B. ...</i>	6/12/97
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE
<i>James R. ...</i>	6/13/97
DIRECTOR	DATE

Date	No.	Revision Description

School for Contemporary Education Building Addition
Howard County, Maryland

OWNER / DEVELOPER
School For Contemporary Education
8920 Whiskey Bottom Road
Laurel, Maryland 20723

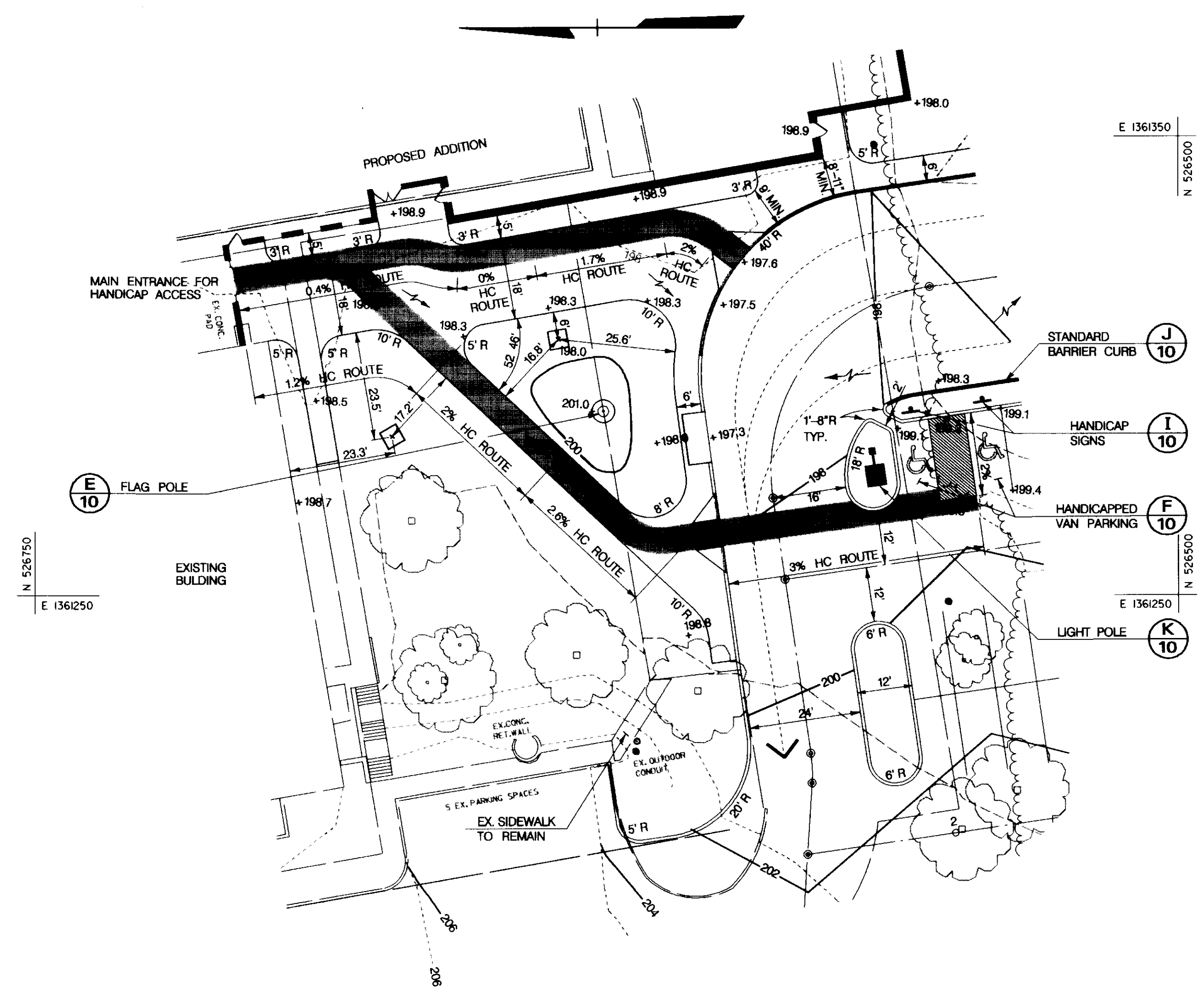
DMW
Darr-McCune-Walker, Inc.
200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax: 296-4705

A Team of Land Planners,
Landscape Architects,
Engineers, Surveyors &
Environmental Professionals

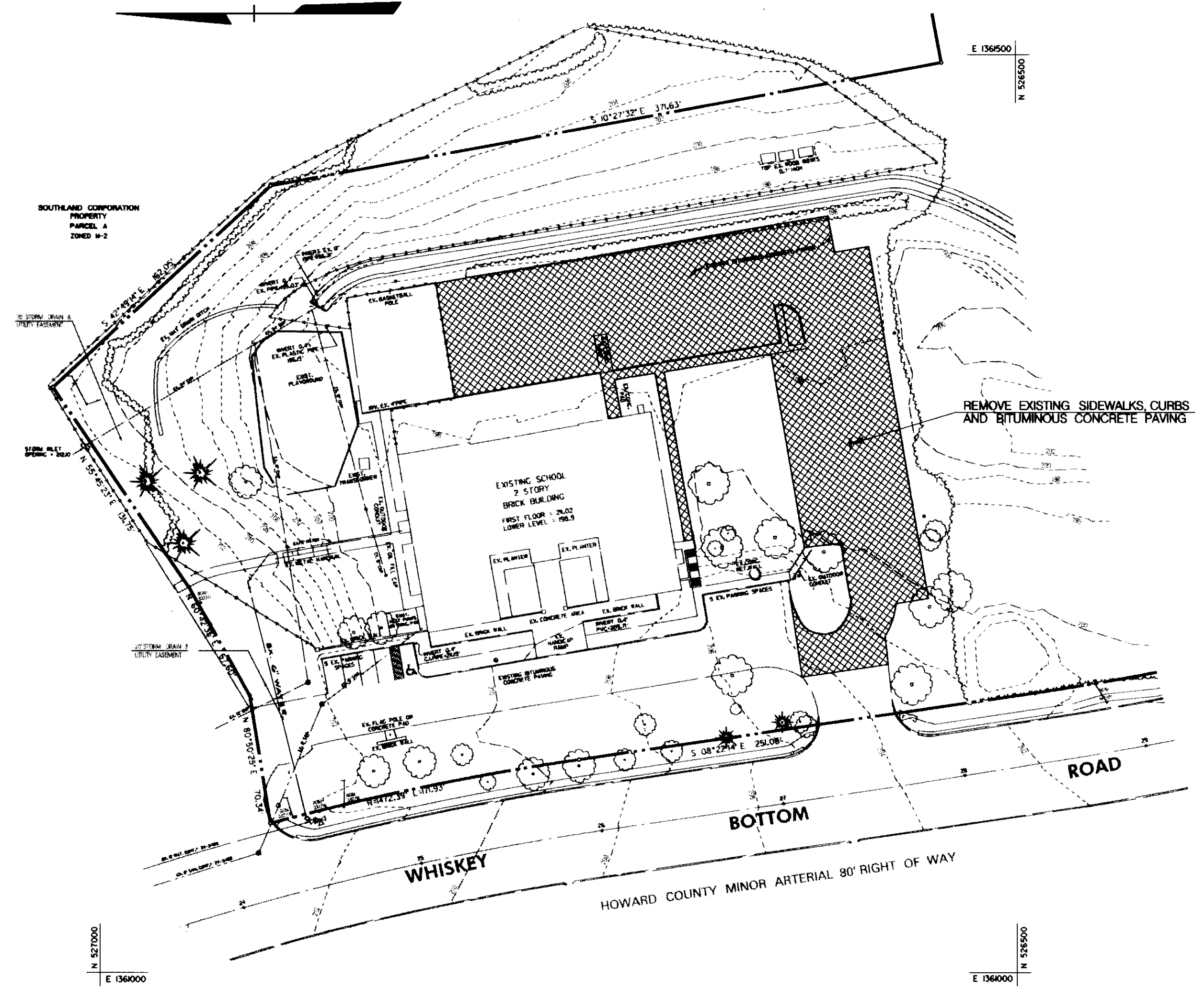
SUBDIVISION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION / AREA	N / A	DT. PAGES #	Part of 433, Part 'B'
DATE OF P.L.	10/27	BLOCK #	50	TOT. MAP	6TH
WATER CODE	5	SEWER CODE	M-2	REUSE TRACT	6069.03

DRAINAGE AREA MAPS

Des By	MM	Scale	As Shown	Proj. No.	96065
Dm By	MSS	Date	1-10-97	4 of 16	
Chk By	MK	Approved			



COURTYARD DETAIL
SCALE: 1" = 20'



DEMOLITION PLAN
SCALE: 1" = 50'

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 Chief Development Engineering Division: *Richard Blood* 6/10/97 DATE
 Director: *James S. Smith* 6/10/97 DATE

Date	No.	Revision Description

School for Contemporary Education Building Addition
Howard County, Maryland

OWNER / DEVELOPER
 School For Contemporary Education
 8920 Whiskey Bottom Road
 Laurel, Maryland 20723

DMW
 Death-DeCicca-Walkers, Inc.
 300 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 396-3333
 Fax 396-4706
 A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

SUBDIVISION NAME	SOUTHLAND CORPORATION PROPERTIES	SECTION AREA	N/A	LOT NUMBER	Parcel 433, Par 13
PLAT OR L.A.	10007	BLK/CP	5	TRAC	50
WATER CODE					

DEMOLITION PLAN & COURTYARD DETAIL

Des By	MM	Scale	As Shown	Proj. No.	96085
Dm By	MSS	Date	1-10-97	3 of 16	
Chk By	MK	Approved			

Professional Engineer Number: *AS51*

4-10-97
Date

STORM WATER MANAGEMENT POND
GENERAL CONSTRUCTION SPECIFICATIONS

1. GENERAL
All stormwater management facilities shall be constructed in accordance with Howard County's Design Manual, Volume I: Storm Drainage (1992) and the M.D.C. Maryland Standard and Specifications for Roads (MD-37, 1992).

2. SITE PREPARATION
Areas designated for borrow areas, embankment, and structural works shall be cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1.

3. EARTH FILL
MATERIAL: The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 4" diameter or other objectionable materials. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification G.C., S.C., C.U. or C.L. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

4. PLACEMENT: Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8 inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

5. COMPACTION: The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four passes of a sheepsfoot, rubber tired or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out.

6. ALL compaction is to be not less than 95 percent of the maximum dry density as determined by AASHTO Specification 1-99 (Standard Proctor) with a moisture content within 2.2 percent of optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction.

7. CUTOFF TRENCH: The cutoff trench shall be excavated into impervious material along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least 4 feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The bedfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

8. STRUCTURAL BACKFILL: Backfill adjacent to pipe or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed 4 inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the banking operation shall driven equipment be allowed to operate closer than 4 feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24 inches or greater over the structure or pipe.

9. REMOVAL AND REPLACEMENT OF DEFECTIVE FILL: Fill placed at a minimum lower than specified minimum density or at moisture content outside the specified acceptable range or moisture content or otherwise not conforming to the requirements of the specifications shall be removed to meet the requirements and replaced by acceptable fill. The bottom of such excavations shall be finished flat or gently curving and at the sides of such excavations the adjacent sound fill shall be trimmed to a slope not steeper than 3 feet horizontal to 1 foot vertical extending from the bottom of the excavation to the fill surface.

10. PIPE CONDUITS: All pipes shall be circular in cross section. All perforated pipe shall have a minimum of 3.31 square inches of opening per square foot of pipe surface (e.g. 3/8 inch holes per square foot). Perforations are to be uniformly spaced around the full periphery of the pipe. Any holes blocked or partially blocked by blumous coating shall be opened prior to installation.

11. REINFORCED CONCRETE PIPE: All of the following criteria shall apply for reinforced concrete pipe:
1. Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-78.
2. Cradle - All reinforced concrete pipe conduits shall be laid in a concrete cradle for its entire length. This cradle shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10 percent of the outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.
3. Laying Pipe - Bell and spigot pipe shall be placed with the bell and upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the cradle shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet from the riser.
4. Backfilling shall conform to "Structural Backfill".
5. Connections - All connections (to anti-seep collars, riser, etc.) shall be watertight.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

12. POLYETHYLENE GLYCOL (PEG) PIPE - All of the following criteria shall apply for polyethylene glycol (PEG) pipe:
1. Materials - PVC pipe shall be PVC-1120 or PVC-1220 conforming to ASTM D-1785 or ASTM D-2241.
2. Joints and connections to anti-seep collars shall be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Backfilling shall conform to "Structural Backfill".
5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

13. CONCRETE: CONCRETE shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Sections 414 and 902, Mix No. 3. Contractor shall add color mix at plant in accordance with manufacturers recommendation "C-12 Messa Beige" as manufactured by L. M. Scofield Company (213) 723-5285. Supply moisture for grout prior to application. Contractor shall supply load and mix tests for each truckload. No partial bed pipes shall be allowed.

14. ROCK RIP RAP: ROCK RIP RAP shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 901.02.

15. CARE OF WATER DURING CONSTRUCTION: All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also install, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being raised shall be maintained below the bottom of the excavation at such locations which may require draining the water to pumps from which the water shall be pumped.

16. STABILIZATION: All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, mowing, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and Specifications for Critical Area Planning (MD-342) or as shown on the accompanying drawings.

17. EROSION AND SEDIMENT CONTROL: Construction operations will be carried out in such a manner that erosion will be controlled and water and soil pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process. All disturbed areas shall be controlled by an Erosion and Sediment Control Plan which has been approved by the Howard Soil Conservation District (H.S.C.D.).

18. FILTER CLOTH: ALL filter cloth shall conform to Mill 140N, Dupont Tytar 3341 or 3401, Supac 5P or approved equal.

19. GABIONS: All gabions shall be P.V.C. coated wire baskets. Stone size shall be 4 inches to 7 inches.

20. CONSTRUCTION INSPECTION BY DESIGNATED ENGINEERS: The construction of the pond and embankment, and certification that the pond and embankment have been built in accordance with the plans shall be under the supervision of a Registered Professional Engineer. The Engineer shall be notified sufficiently in advance of construction in order that arrangements can be made for (1) inspection of pipe trench and bedding, (2) inspection of riser and anti-seep collars and (3) supervision of embankment construction and compaction testing. The Engineer shall direct the handling of water during construction, minor changes not affecting the integrity of the dam in order to compensate for unusual soil conditions, and the removal and replacement of defective fill.

RECORD OF SOIL EXPLORATION

DEPTH	SOIL DESCRIPTION	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	UNSATURATED SWELLING (%)	STANDARD PENETRATION TEST (blows/ft)	REMARKS
0-1.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
1.0-1.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
1.5-2.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
2.0-2.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
2.5-3.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
3.0-3.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
3.5-4.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
4.0-4.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
4.5-5.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
5.0-5.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
5.5-6.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
6.0-6.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
6.5-7.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
7.0-7.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
7.5-8.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
8.0-8.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
8.5-9.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
9.0-9.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
9.5-10.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
10.0-10.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
10.5-11.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
11.0-11.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
11.5-12.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
12.0-12.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
12.5-13.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
13.0-13.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
13.5-14.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
14.0-14.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
14.5-15.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
15.0-15.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
15.5-16.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
16.0-16.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
16.5-17.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
17.0-17.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
17.5-18.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
18.0-18.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
18.5-19.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
19.0-19.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
19.5-20.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
20.0-20.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
20.5-21.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
21.0-21.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
21.5-22.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
22.0-22.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
22.5-23.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
23.0-23.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
23.5-24.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
24.0-24.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
24.5-25.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
25.0-25.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
25.5-26.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
26.0-26.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
26.5-27.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
27.0-27.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
27.5-28.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
28.0-28.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
28.5-29.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
29.0-29.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
29.5-30.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
30.0-30.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
30.5-31.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
31.0-31.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
31.5-32.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
32.0-32.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
32.5-33.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
33.0-33.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
33.5-34.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
34.0-34.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
34.5-35.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
35.0-35.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
35.5-36.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
36.0-36.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
36.5-37.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
37.0-37.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
37.5-38.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
38.0-38.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
38.5-39.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
39.0-39.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
39.5-40.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
40.0-40.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
40.5-41.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
41.0-41.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
41.5-42.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
42.0-42.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
42.5-43.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
43.0-43.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
43.5-44.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
44.0-44.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
44.5-45.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
45.0-45.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
45.5-46.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
46.0-46.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
46.5-47.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
47.0-47.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
47.5-48.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
48.0-48.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
48.5-49.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
49.0-49.5	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing
49.5-50.0	Dark brown to black silty clay with organic matter	28	55	15	1.2	12	1st Footing

SAMPLER TYPE: OPEN END SPT
SAMPLER CONDITIONS: AT QUOTATION
GROUND WATER DEPTH: AT QUOTATION
BORING METHOD: OPEN END SPT

STANDARD PENETRATION TEST (blows/ft) 12

REMARKS: 1st Footing

RECORD OF SOIL EXPLORATION

DEPTH	SOIL DESCRIPTION	WATER CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX	UNSATURATED SWELLING (%)	STANDARD PENETRATION TEST (blows/ft)	REMARKS
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