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NO.	DESCRIPTION
1	Title Sheet
2	Site Development Plan
3	Sediment Control Plan
4	Drainage Area Map
5	Water and Sewer Profile, Details
6	Storm Drain Profiles, Details
7	Storm Water Management Notes & Details and Storm Drain Profiles
8	Storm Water Management Details
9	Erosion & Sediment Control Notes
10	Layout Plan
11	Landscape Plan
12	Landscape Details
13	Existing Conditions and Disability Access Details

# SITE DEVELOPMENT PLAN

## NORTHEASTERN MIDDLE SCHOOL

### 1st ELECTION DISTRICT HOWARD COUNTY, MARYLAND

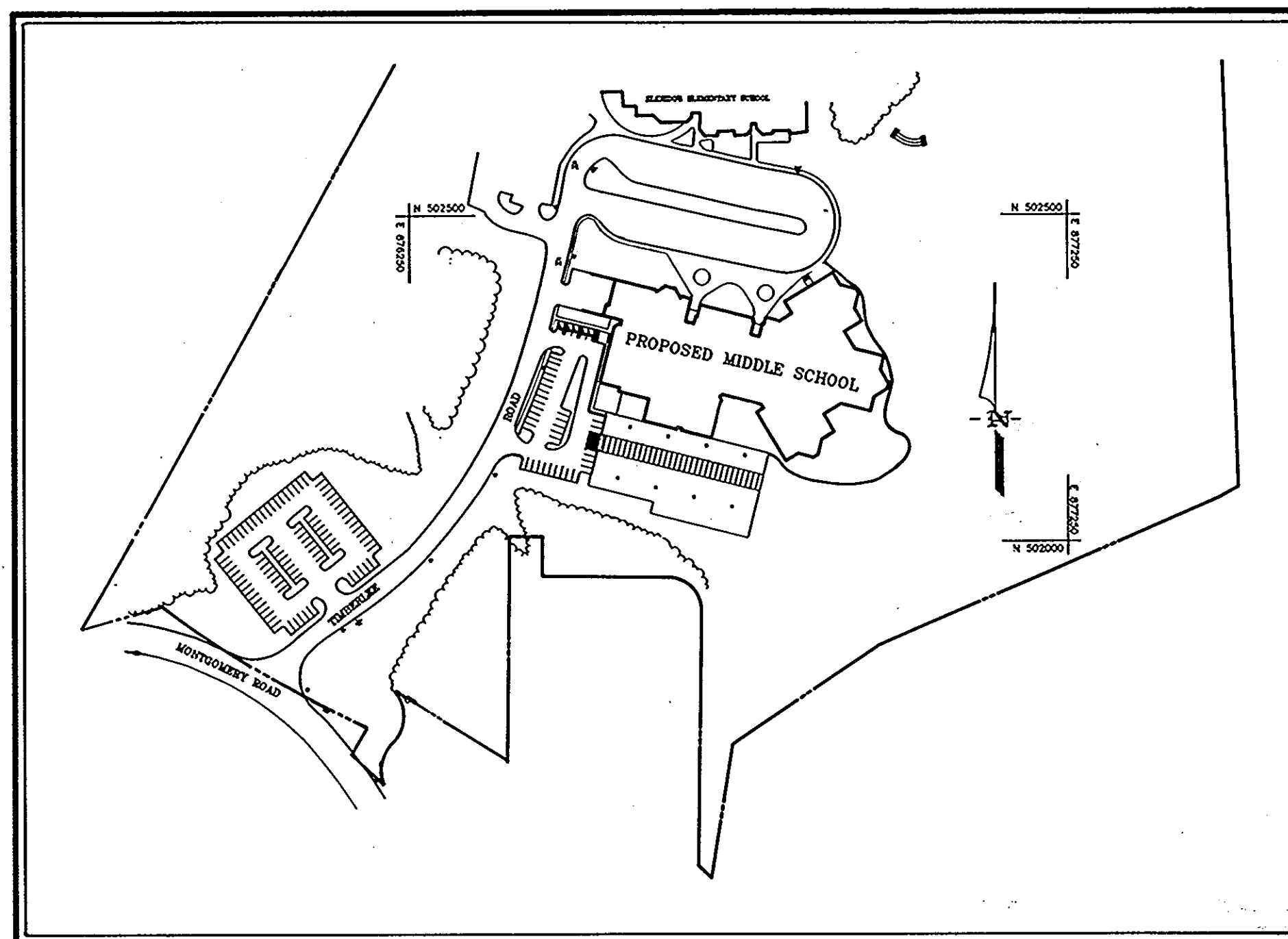
**General Notes:**

- All construction shall be in accordance with the latest standards and specification of Howard County and MSHA standards and specification if applicable.
- All water lines shall be constructed to minimum of 42" cover from finished grade.
- Existing utilities were located by J.A. Rice, Inc. survey, Howard County Sanitary Sewer and Water Main As-Built Contract 14-3102-D, and SDP 91-27. 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.
- Contractor to notify the following utilities or agencies at least five days before starting work shown on these drawings:  

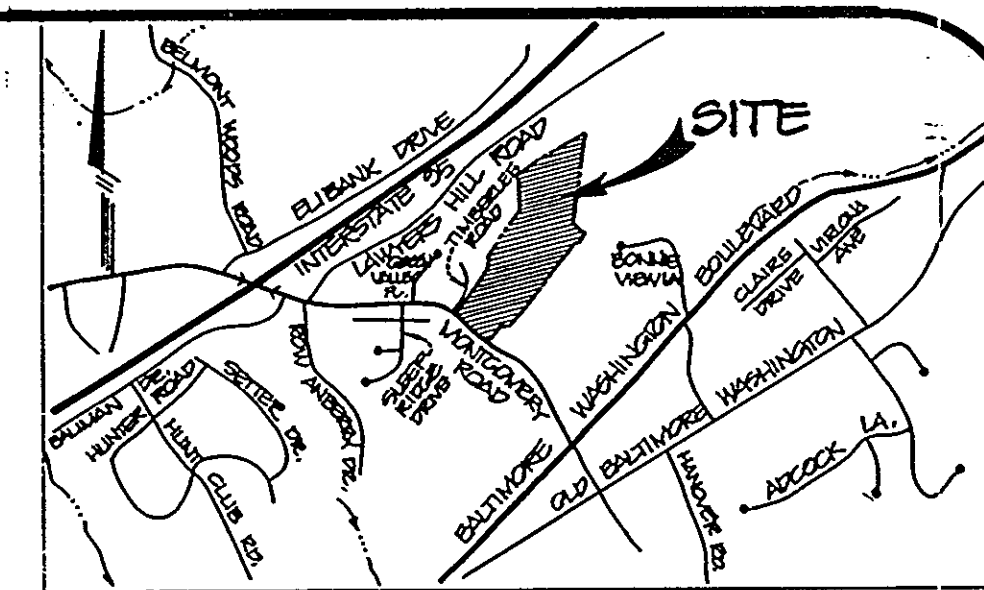
C&P Telephone Company	725-9976
Howard County Bureau of Utilities	992-2366
AT&T Cable Location Diversion	393-3553
Baltimore Gas & Electric Company	685-0123
State Highway Administration	531-5533
Howard County Construction/Inspection Division	313-1820
(24 hours notice prior to commencement of work)	
- All inlets shall be constructed in accordance with Howard County Standards, unless otherwise indicated.
- All pipe elevations shown are invert elevations.
- The contractor shall provide a joint in all sewer mains within 2'-0" of exterior manhole walls.
- Profile stations shall be adjusted as necessary to conform to plan dimensions.
- No pipe shall be laid until lines of excavation have been brought to subgrade.
- Traffic control devices, markings, and signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD). All street and regulatory signs shall be in place prior to the placement of any asphalt.
- All plan dimensions are to the face of curb unless otherwise noted.
- Topographic Survey (2 foot contour intervals) performed by J.A. Rice, Inc., dated June 1993. Boundary taken from survey performed by Purdum & Jeschke, dated September 14, 1990.
- Boundary data shown on this plan is referred to the system of coordinates established in the Maryland State Plane Coordinates System and are based on the coordinates and bearings of the following traverse stations:

No. 38A4 N 562977.5944  
 E 1386288.056  
 No. 37C3 N 562915.9104  
 E 1384856.688

- Contractors shall be responsible for replacement of all curbs, sidewalks, pavement areas, and similar features which are disturbed during construction.
- All storm drain pipe bedding shall be as shown in detail G2.01 (trench in rock or trench in earth as determined by field conditions) in Volume IV of Howard County Design Manual unless otherwise directed by the engineer or as shown on the drawings.
- 8" water connection to Middle School is private; 8" sewer main is private.
- The developer is responsible for the acquisition of all easements, right and/or rights-of-way that may be required for the sediment and erosion control practices, storm water management practices and the discharge of storm water onto or across adjacent or downstream properties included in this plan. He is also responsible for the acquisition of all easements, rights and/or work on adjacent properties included in this plan (if any).
- Type of stormwater management control is extended detention.
- Stormwater management facility will be privately owned and maintained.



**PLAN**  
 SCALE: 1"=200'



**VICINITY MAP**  
 SCALE 1"=2000'

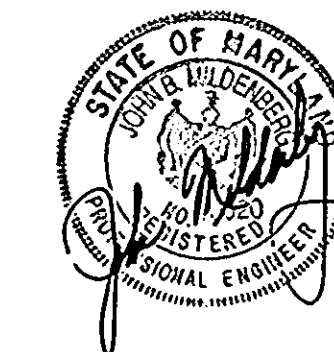
Project	93010-00	Date	2/14/94
Illustration	MWZ/PLP	Engineering	MWZ
Scale	1"=50'	Approval	JPM

**NORTHEASTERN MIDDLE SCHOOL**  
 HOWARD COUNTY, MARYLAND  
 ELECTION DISTRICT No. 1  
 SITE DEVELOPMENT PLAN

**SITE ANALYSIS:**

Total Area of Parcel: 47.6827 acres = 2,077,058 sq. ft.  
 Zoning: R-ED (formerly R-20)  
 Proposed use of Structure: New Public Middle School  
 Existing use of Structure: Existing Elementary School to remain

Quantity	Existing Elementary School (SDP 91-27)		Proposed Middle School		Total	
	1st Floor	2nd Floor	1st Floor	2nd Floor	1st Floor	2nd Floor
Floor Space:	73,713 sq. ft.	27,513 sq. ft.	Not Available	Not Available	190,159 sq. ft.	Not Available
	Total	101,226 sq. ft.	Total	88,933 sq. ft.	Total	190,159 sq. ft.
Number of Full Time Employees:	70		74		144	
Parking (B. of Ed. and ADA Criteria):						
	Spaces required	92	95	187		
	Total Spaces Provided	109	134	243		
	Handicap Spaces Required	4	5	9		
	Handicap Spaces Provided	5	6	11		
Open Space Required:	(N.A. - School Site)		(N.A. - School Site)		(N.A. - School Site)	
Area of Recreation Space Required:	(N.A. - School Site)		(N.A. - School Site)		(N.A. - School Site)	
Area of Recreation Space Provided: (Athletic Fields)	4.02 acres		8.78 acres		12.80 acres	
Building Coverage of Site:	1.48 acres; (3.10% of gross area)		1.71 acres; (3.59% of gross area)		3.19 acres; (6.69% of gross area)	
Parking on Site:	1.05 acres; (2.20% of gross area)		1.52 acres; (3.19% of gross area) (Excluding Paved Play Area Parking)		2.52 acres; (5.39% of gross area)	
Roadway on Site:	1.70 acres; (3.52% of gross area)		1.70 acres; (3.52% of gross area)		1.70 acres; (3.52% of gross area)	



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
EX ELEM. SCHOOL	7075 MONTGOMERY ROAD
PROP. MIDDLE SCHOOL	7085 MONTGOMERY ROAD

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James D. Smith* 2/8/94  
 DIRECTOR DATE  
*Anna M. Mammone* 2/7/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE  
 CRG

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*James J. Shaw* 1/29/94  
 DIRECTOR DATE  
*Robert J. Seaman* 1/21/94  
 CHIEF, BUREAU OF ENGINEERING DATE

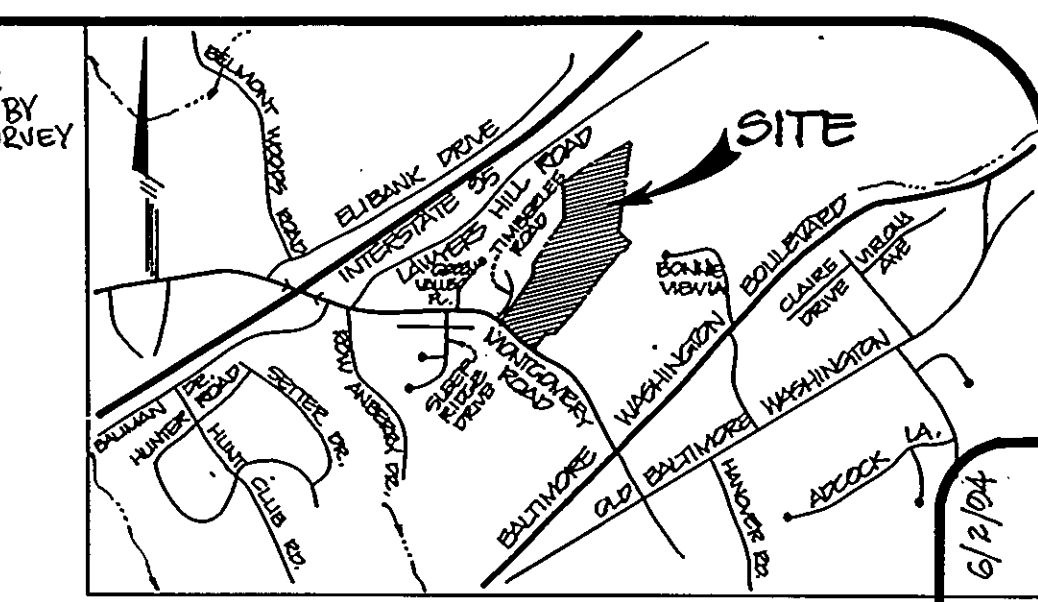
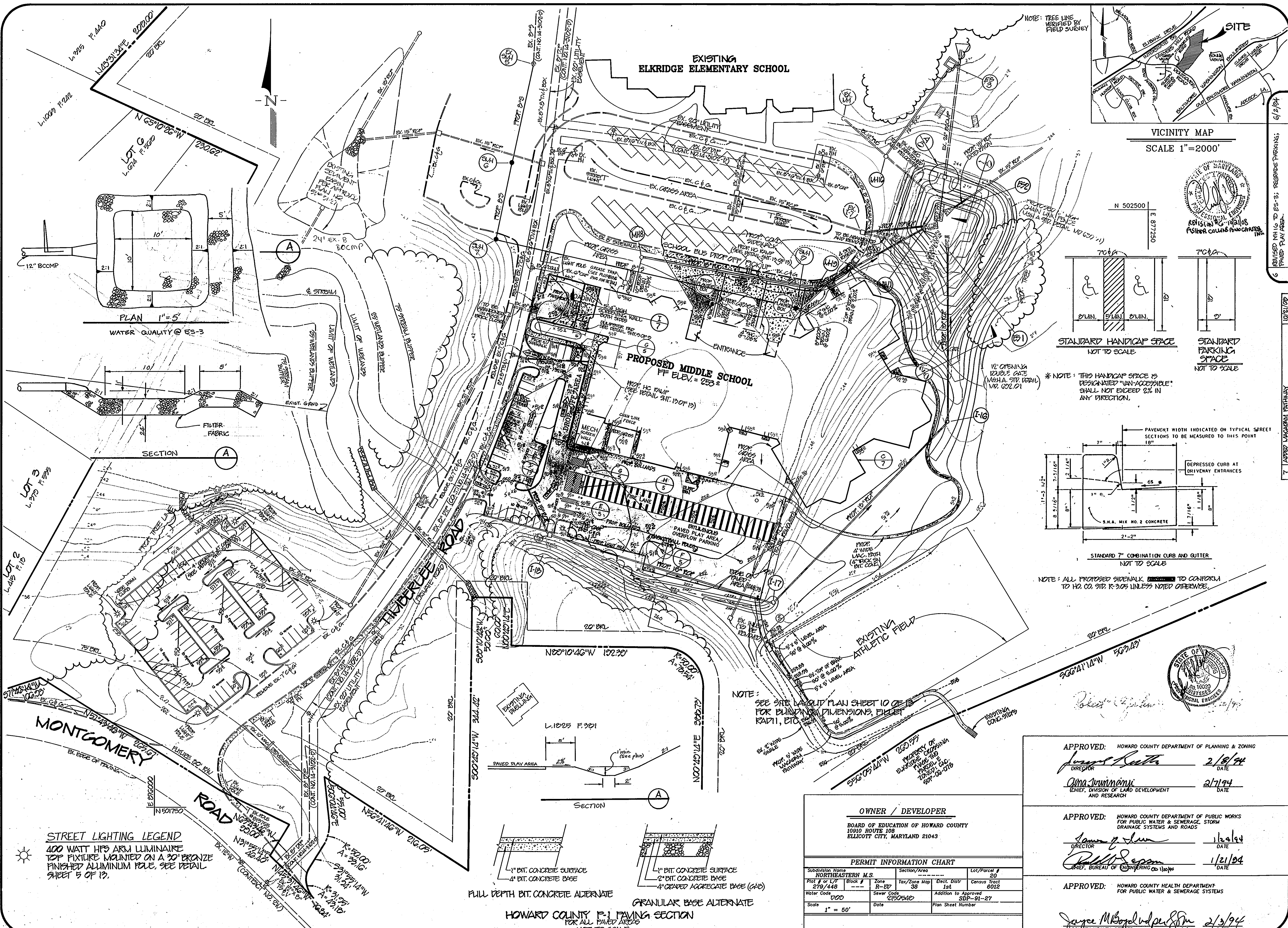
APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*James M. Boyd* 2/3/94  
 COUNTY HEALTH OFFICER DATE

**OWNER / DEVELOPER**  
 BOARD OF EDUCATION OF HOWARD COUNTY  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043  
 Attn: Ms. Cathleen Young  
 (410)-313-6704

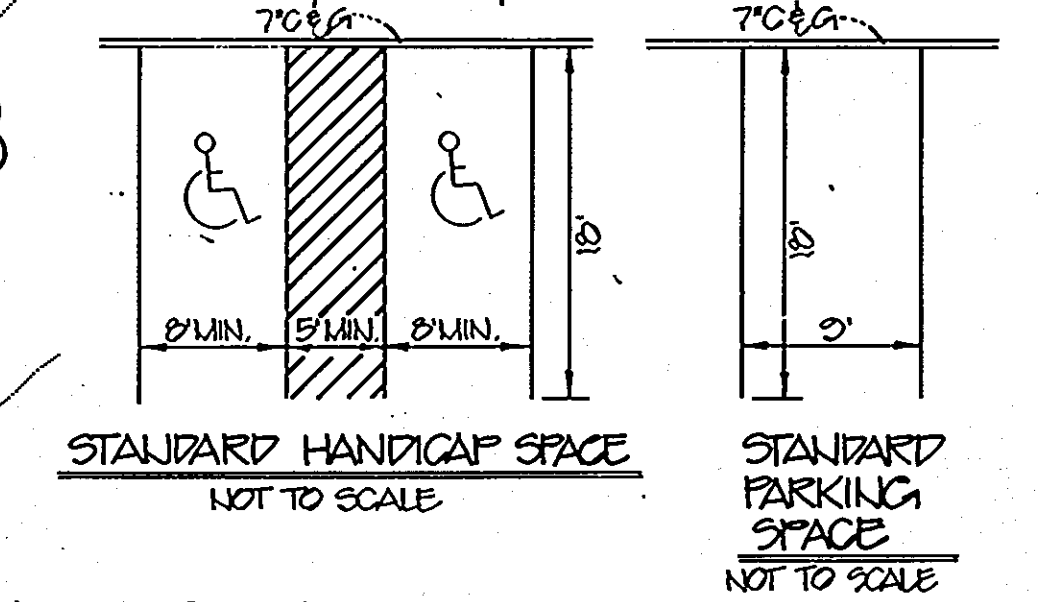
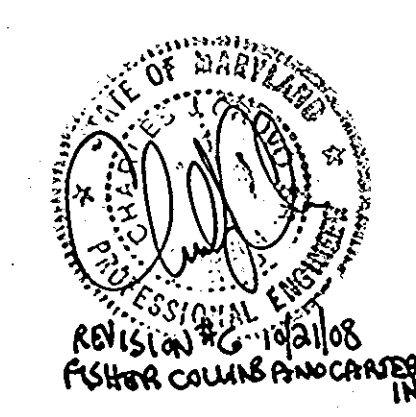
PERMIT INFORMATION CHART					
Subdivision Name	Section/Area	Lot/Parcel #			
NORTHEASTERN M.S.		20			
Plot # or L/R	Block #	Zone	Tax/Zone Map	Elect. Dist	Census Tract
279/448		R-ED	38	1st	8012
Water Code	Sewer Code	Addition to Approved SDP-91-27			
D09	2150548				
Scale 1"=200'	Date	Plan Sheet Number			

**MILDENBERG, ROCH & ASSOCIATES, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland  
 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

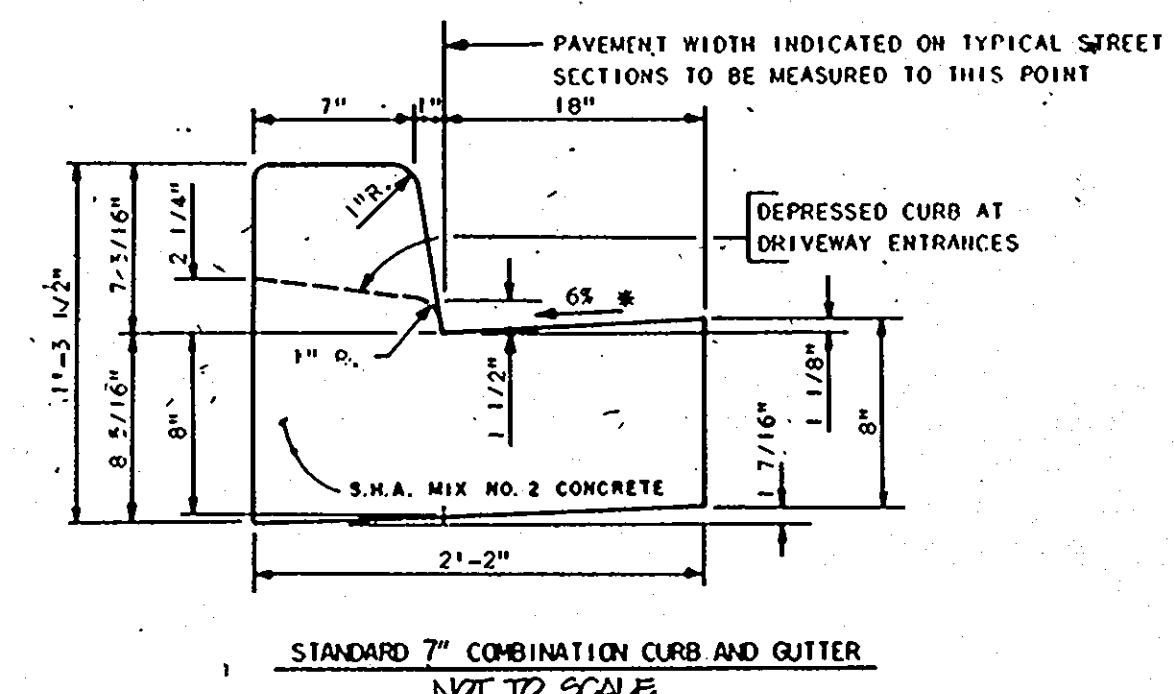




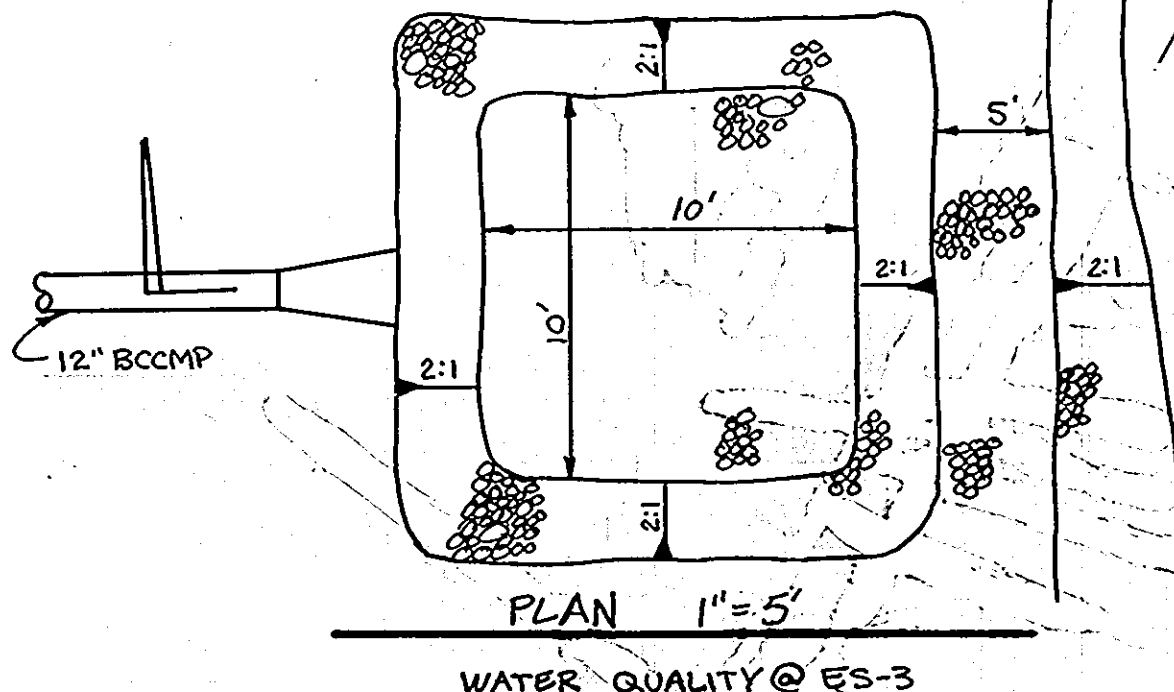
VICINITY MAP  
SCALE 1"=2000'



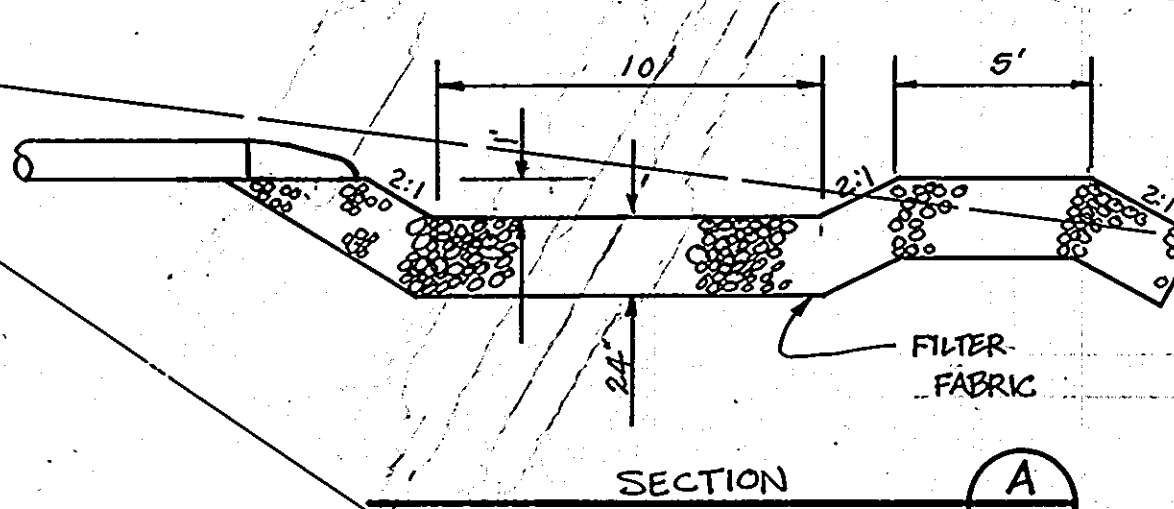
\* NOTE: THIS HANDICAP SPACE IS DESIGNATED "VAN-ACCESSIBLE" SHALL NOT EXCEED 2% IN ANY DIRECTION.



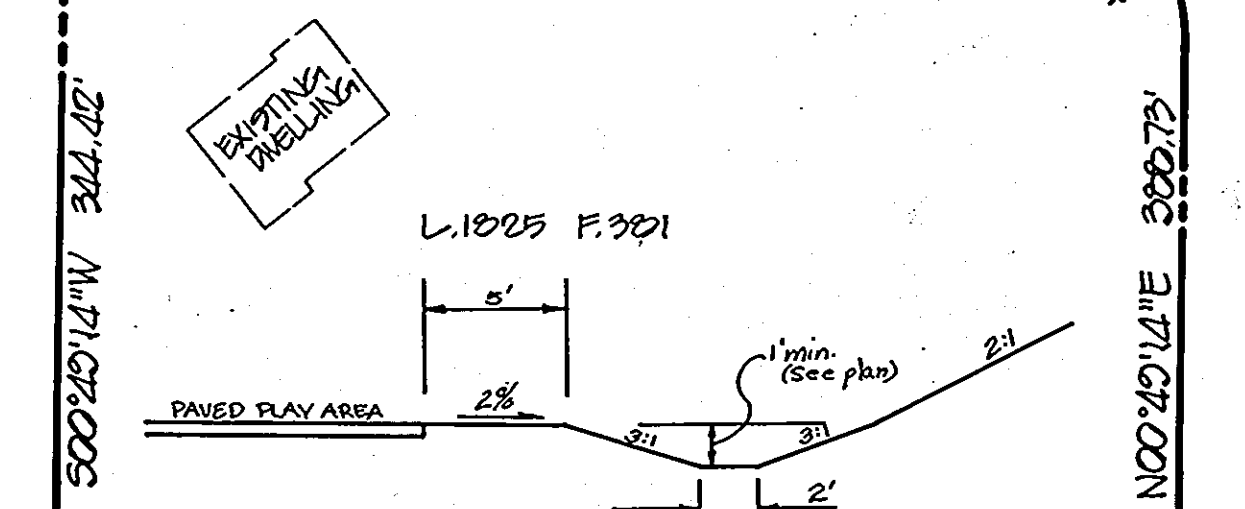
NOTE: ALL PROPOSED SIDEWALK TO CONFORM TO H2 CO. 912 R-205 UNLESS NOTED OTHERWISE.



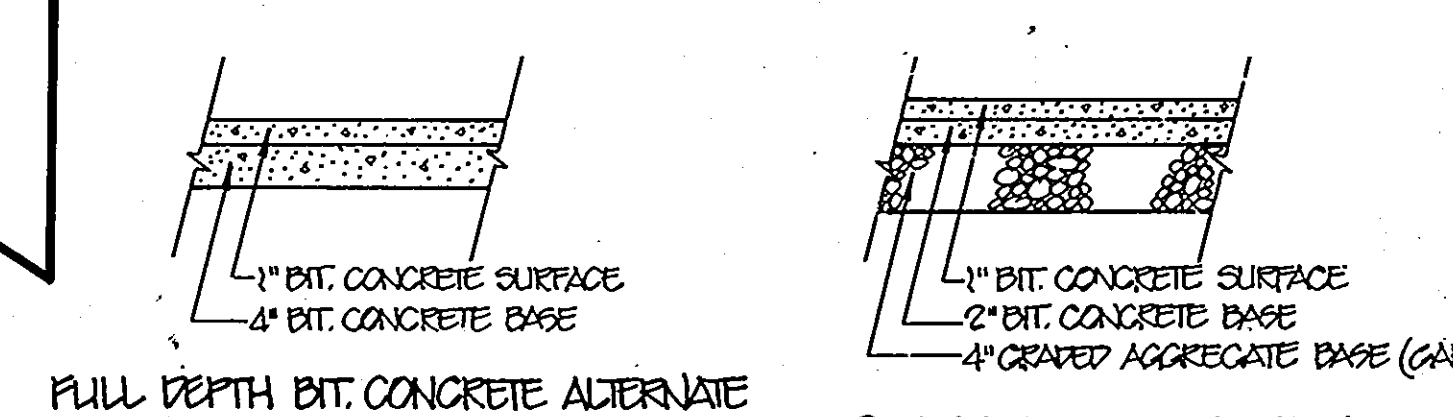
PLAN 1"=5'  
WATER QUALITY @ ES-3



SECTION A



SECTION A



GRANULAR BASE ALTERNATE

HOWARD COUNTY P-1 PAVING SECTION  
FOR ALL PAVED AREAS  
NOT TO SCALE

**STREET LIGHTING LEGEND**  
400 WATT HP3 ARM LUMINAIRE  
TOP FIXTURE MOUNTED ON A 30" BRONZE  
FINISHED ALUMINUM POLE, SEE DETAIL  
SHEET 5 OF 13.

OWNER / DEVELOPER			
BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELlicOTT CITY, MARYLAND 21043			
PERMIT INFORMATION CHART			
Subdivision Name NORTHEASTERN M.S.	Section/Area R-27	Lot/Parcel # 20	
Plot or L/P # 270/448	Zone R-27	Tax/Zone Map 38	Elect. Distr 1st
Water Code D00	Sewer Code C10040	Census Tract 6012	
Scale 1" = 50'	Date	Addition to Approved SDP-91-27	
		Plan Sheet Number	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James Rutter* 2/18/94  
DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
FOR PUBLIC WATER & SEWERAGE, STORM  
DRAINAGE SYSTEMS AND ROADS  
*John J. ...* 2/17/94  
DIRECTOR DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT  
FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Jayne M. ...* 2/3/94  
COUNTY HEALTH OFFICER DATE

Project	9-14-93	date	
Illustration	MWZ/ELC	engineering	
Scale	1" = 50'	approval	JPM

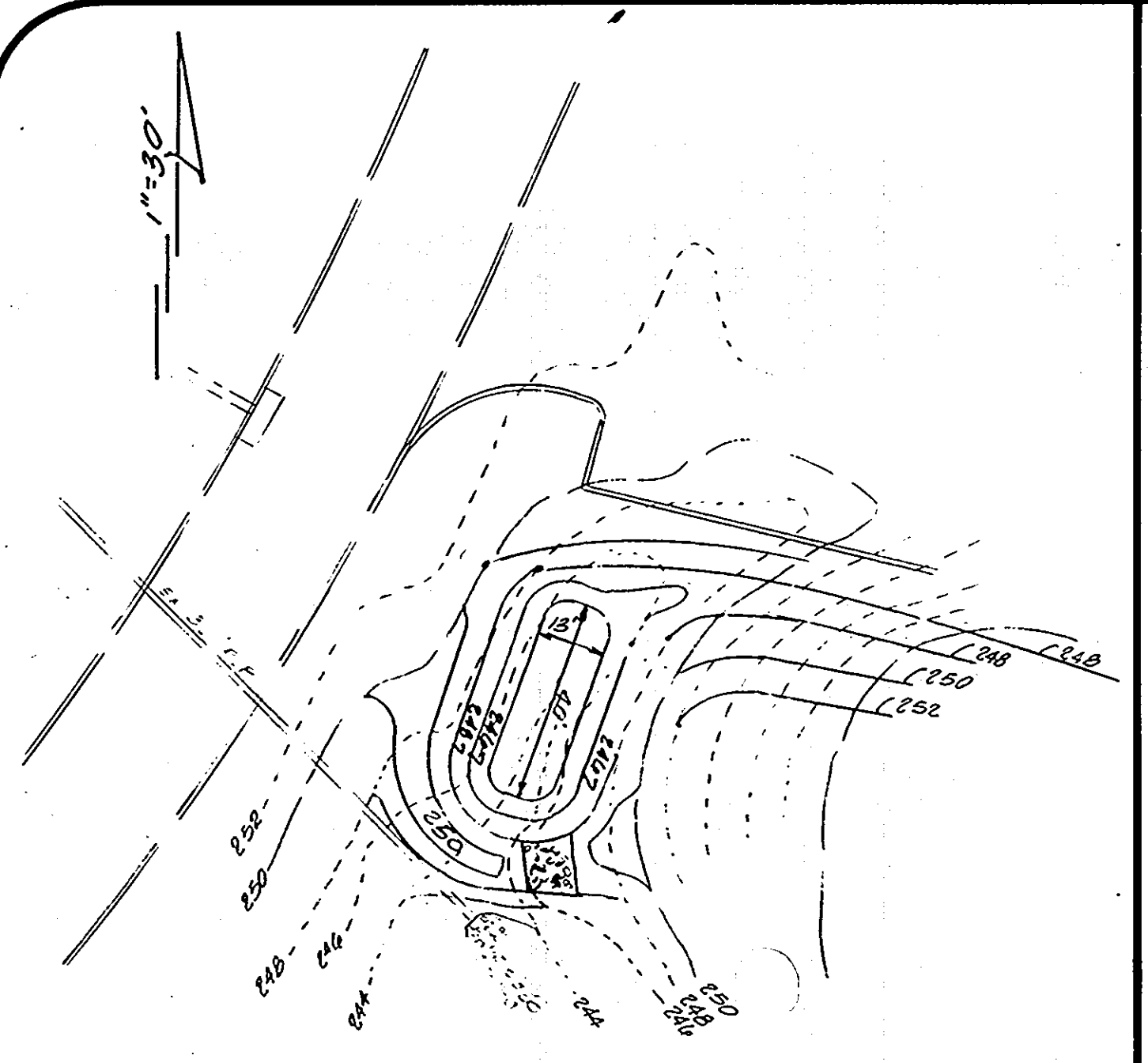
NO.	DESCRIPTION	DATE
1	REVISED PER PLAN NO. 10	6/1/94
2	REVISED PER PLAN NO. 11	11/1/93
3	REVISED PER PLAN NO. 12	11/1/93
4	REVISED PER PLAN NO. 13	11/1/93
5	REVISED PER PLAN NO. 14	12/21/93
6	REVISED PER PLAN NO. 15	12/21/93

**NORTHEASTERN MIDDLE SCHOOL**  
ELECTION DISTRICT No. 1  
HOWARD COUNTY, MARYLAND  
SITE DEVELOPMENT PLAN

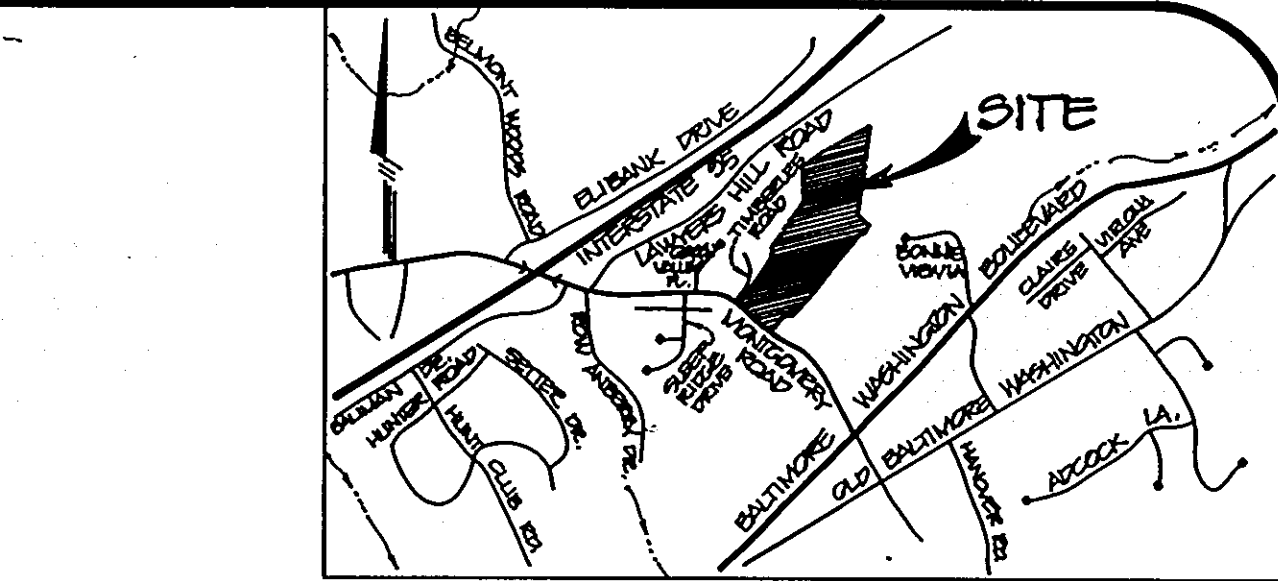
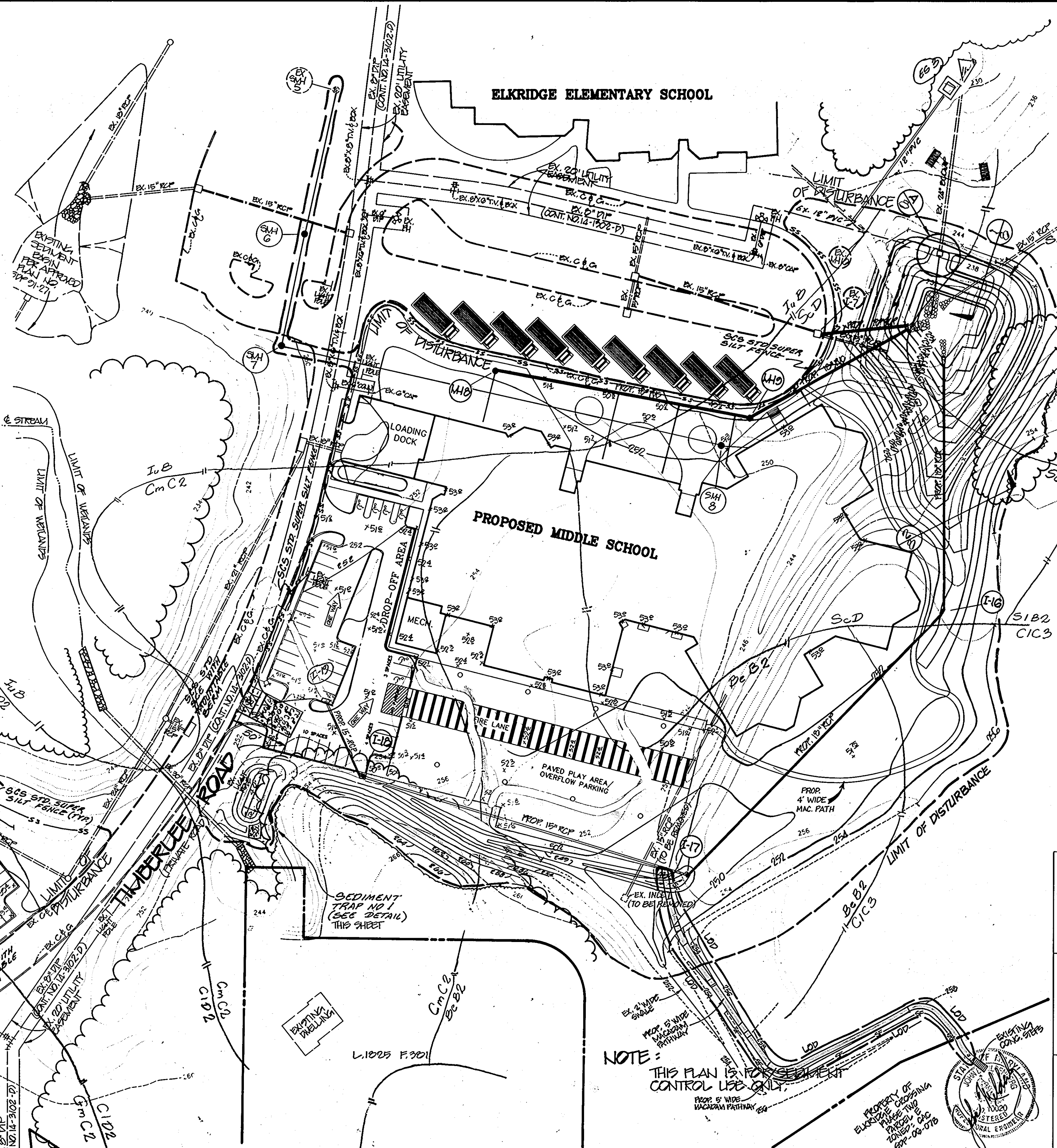
2 OF 13





**DETAIL - SEDIMENT TRAP No. 1**  
SCS-TYPE V

MAX. D.A. 1.3 AC  
 ROAD STORAGE 2340 CU. FT.  
 BOTTOM DIMENSIONS 15 X 10  
 BOTTOM ELEV. 244.0  
 5' X 5' SLOPE 2:1  
 CREST ELEV. 248.0  
 DESIGN STRIKE DEPTH 3.0'  
 VOLUME PROVIDED 2130 CU. FT.  
 EX. GRIND @ CREST 27.0  
 CREST WIDTH 10'

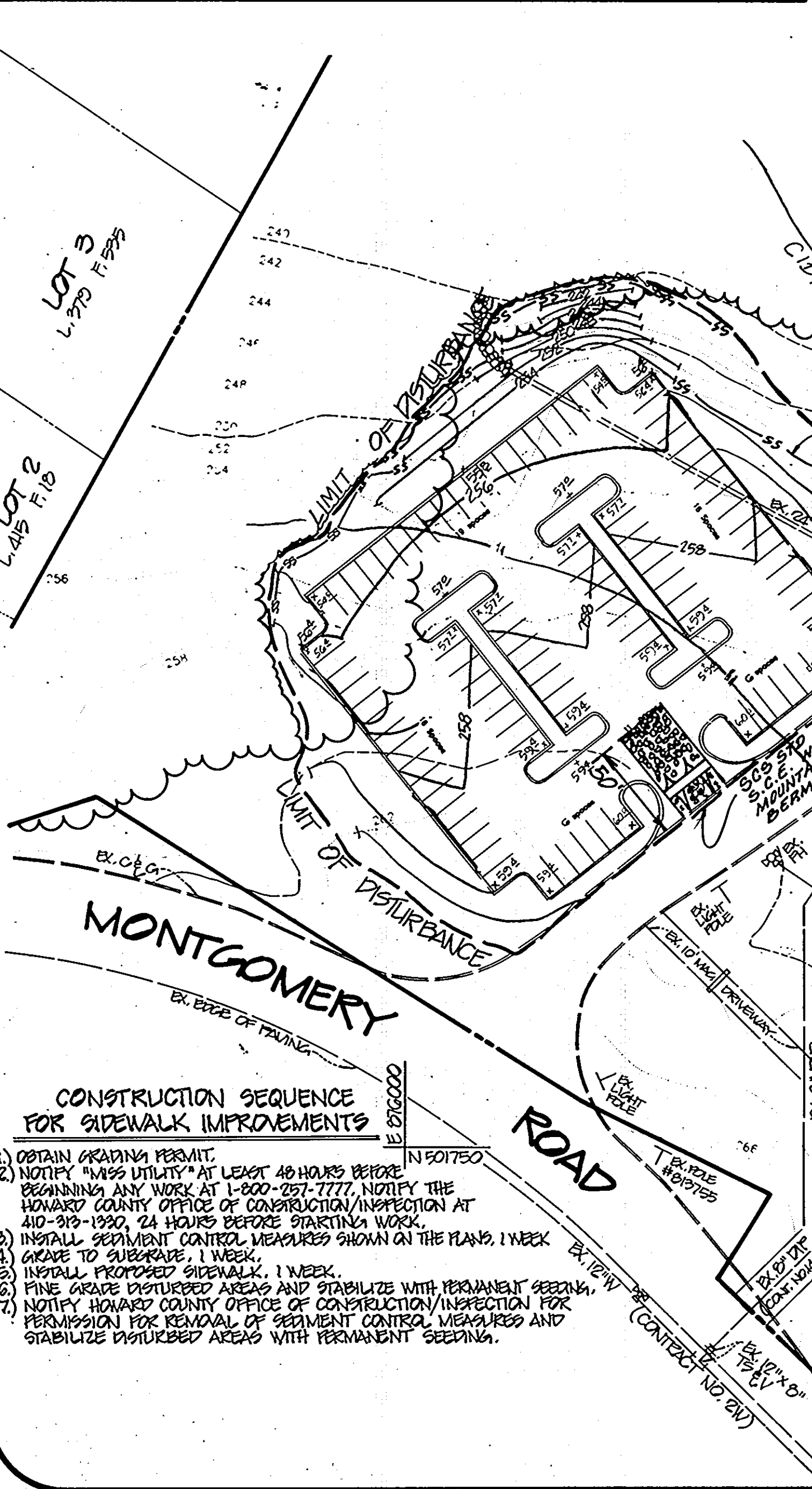


VICINITY MAP  
SCALE 1" = 2000'

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 REVISION 3 10/10/94  
 FISHER COLLINS AND COMPANY, INC.

LEGEND:  
 SS - SS - SS SCS SUPER SILT FENCE  
 EARTH DIKE STABILIZED CONSTRUCTION ENTRANCE

**SEDIMENT BASIN No. 1**  
 MAX. DRAINAGE AREA 15.0 AC  
 ROAD STORAGE 1200 CU. FT.  
 BOTTOM DIMENSIONS 10 X 10  
 BOTTOM ELEV. 231.0  
 5' X 5' SLOPE 2:1  
 CREST ELEV. 235.0  
 DESIGN STRIKE DEPTH 3.0'  
 VOLUME PROVIDED 1000 CU. FT.  
 EX. GRIND @ CREST 27.0  
 CREST WIDTH 10'



- CONSTRUCTION SEQUENCE FOR SIDEWALK IMPROVEMENTS**
- OBTAIN GRADING PERMIT.
  - NOTIFY "MISS UTILITY" AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK AT 1-800-257-7777. NOTIFY THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION AT 410-319-1920, 24 HOURS BEFORE STARTING WORK.
  - INSTALL SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS, 1 WEEK BEFORE SIDEWALK CONSTRUCTION.
  - GRADE TO SUBGRADE, 1 WEEK.
  - INSTALL PROPOSED SIDEWALK, 1 WEEK.
  - FINE GRADE DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING.
  - NOTIFY HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION FOR PERMISSION FOR REMOVAL OF SEDIMENT CONTROL MEASURES AND STABILIZE DISTURBED AREAS WITH PERMANENT SEEDING.

Map Symbol	Soil Name	Hydro. Group	Hydric Soil	Hydric Incl.	High Erosion Pot.
Bs2c	Beltville silt loam	C		X	
Ck3	Chillum gravelly loam	C			X
Ck2c	Chillum gravelly loam	C			X
Cm2c	Chillum silt loam	C			X
IsB	Isaia loam	C		X	
ScB	Steady and clayey loam	C			X
ScD	Steady and clayey loam	C			X
SoT	Steady and clayey loam	C			X
Sis2c	Sassafras loam	B			X

**APPROVED:** REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*Petunia Eng* 1/12/94  
 U. S. SOIL CONSERVATION SERVICE DATE

**APPROVED:** THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*Robert Zichew* 1/12/94  
 HOWARD SOIL CONSERVATION DISTRICT DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James D. Smith* 2/3/94  
 DIRECTOR DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Aimee Swannick* 2/1/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*James J. Lee* 1/24/94  
 DIRECTOR DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Charles E. Jones* 1/21/94  
 CHIEF, BUREAU OF ENGINEERING DATE

**APPROVED:** HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Joyce M. Boyd* 2/3/94  
 COUNTY HEALTH OFFICER DATE

**DEVELOPER'S CERTIFICATE**  
 I/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.  
*Cathleen Conley Young* 1/4/94  
 Signature of Developer Date

**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.  
*John B. Mironberg, P.E.* JAN 5 94  
 Date

**PLAN APPROVAL STAMP**

**OWNER / DEVELOPER**  
 BOARD OF EDUCATION OF HOWARD COUNTY  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043

**PERMIT INFORMATION CHART**

Subdivision Name	Section/Area	Lot/Parcel #
NORTHEASTERN M.S.		20
Plot # of L.P.	Block #	Zone
279,448	R-212	30
Water Code	Sewer Code	Elect. Distr.
000	2120248	121
Scale	Date	Consent Tract
1" = 50'		0012
		Water Code
		000
		Sewer Code
		2120248
		Elect. Distr.
		121
		Consent Tract
		0012
		Water Code
		000
		Sewer Code
		2120248
		Elect. Distr.
		121
		Consent Tract
		0012

**NORTHEASTERN MIDDLE SCHOOL**  
 HOWARD COUNTY, MARYLAND  
 ELECTION DISTRICT No. 1  
**SEDIMENT CONTROL PLAN**

DATE: 9-14-93  
 PROJECT: 89010-00  
 ILLUSTRATION: MWZ  
 SCALE: 1" = 50'  
 APPROVAL: JCK

10/10/94  
 11/10/94  
 11/13/94  
 11/13/94  
 10/21/94  
 10/21/94

APPROVED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 SUBMITTED TO HO. CO. PZ FOR REVIEW COMMENTS  
 SUBMITTED TO HO. CO. PZ FOR REVIEW  
 SUBMITTED TO HO. CO. PZ FOR REVIEW  
 SUBMITTED TO HO. CO. PZ FOR REVIEW

1300 North Ridge Road, Suite 203, Ellicott City, Maryland 21043-3350  
 (410) 461-0078 D.C. Metro. (301) 921-5788 Fax: (410) 750-6340

**MILDENBERG, MOCH & ASSOCIATES, INC.**  
 ENGINEERS - PLANNERS - SURVEYORS  
 1300 North Ridge Road, Suite 203, Ellicott City, Maryland 21043-3350  
 (410) 461-0078 D.C. Metro. (301) 921-5788 Fax: (410) 750-6340

3 OF 13

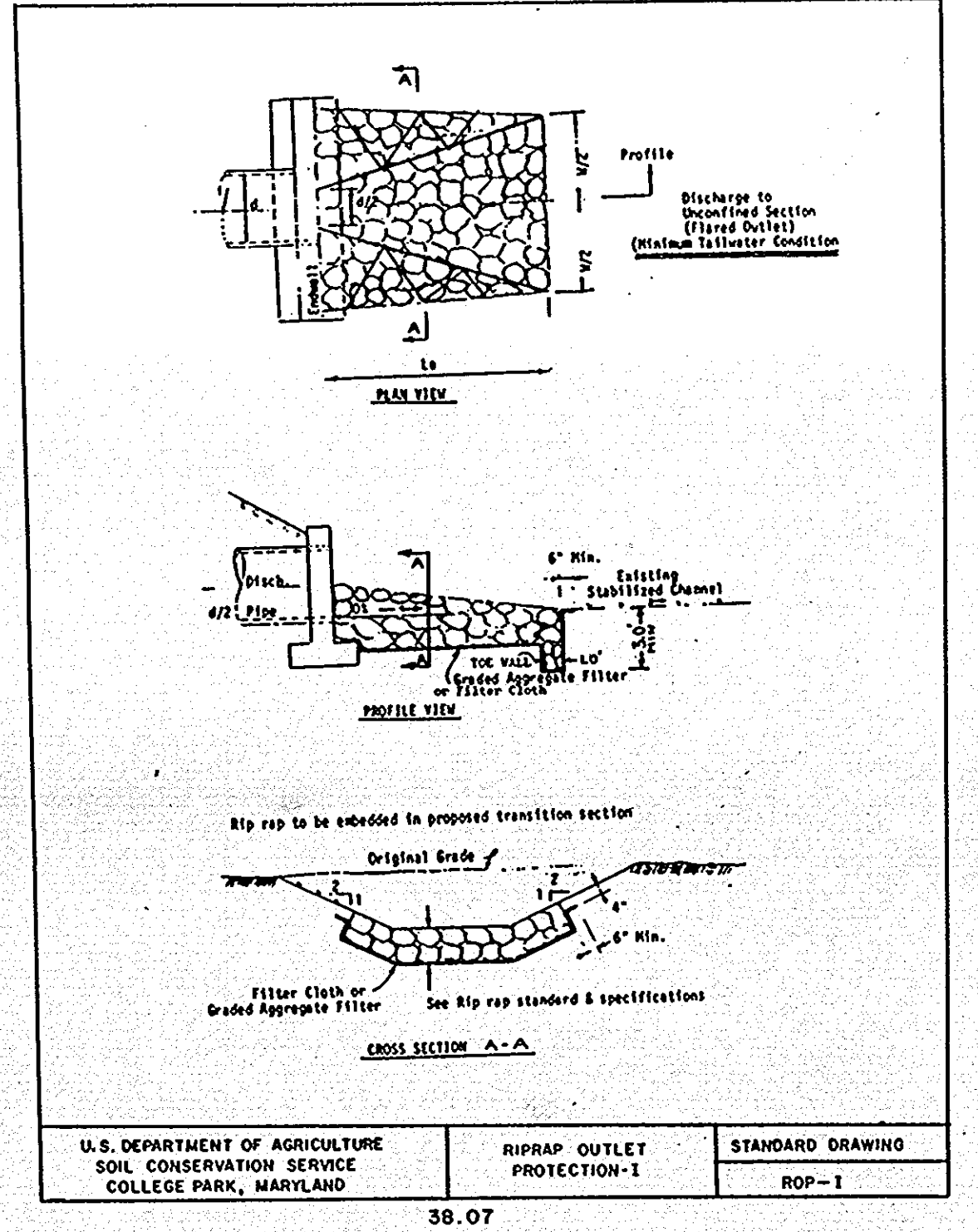
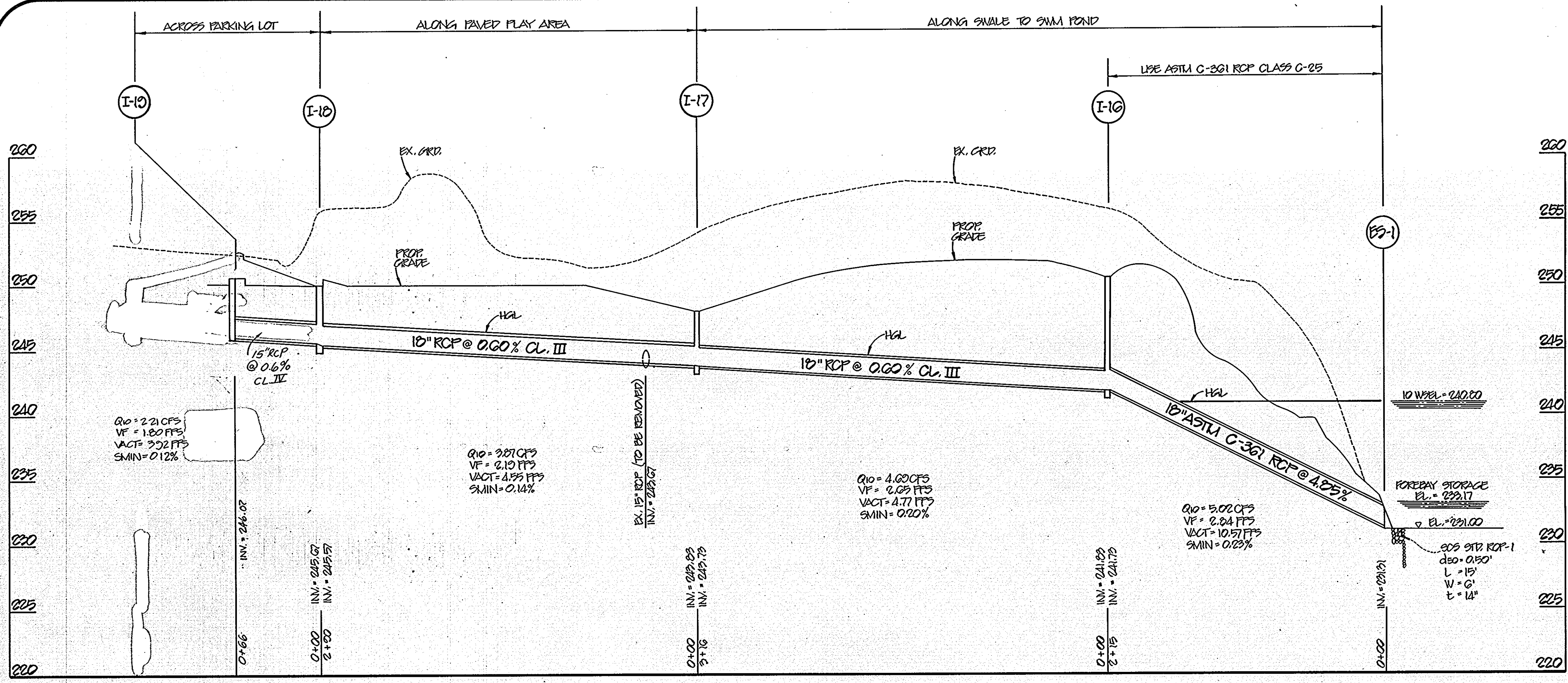








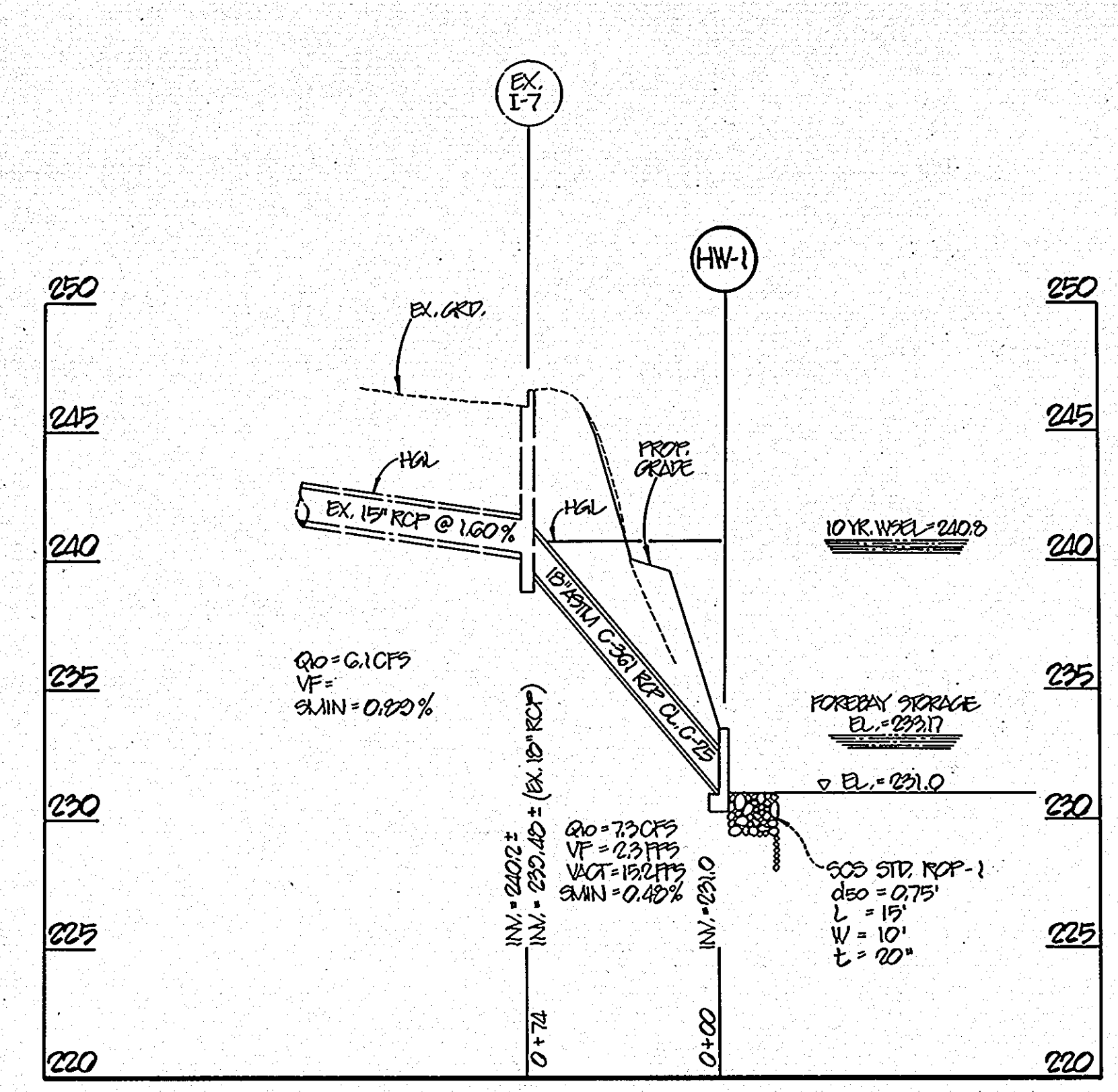
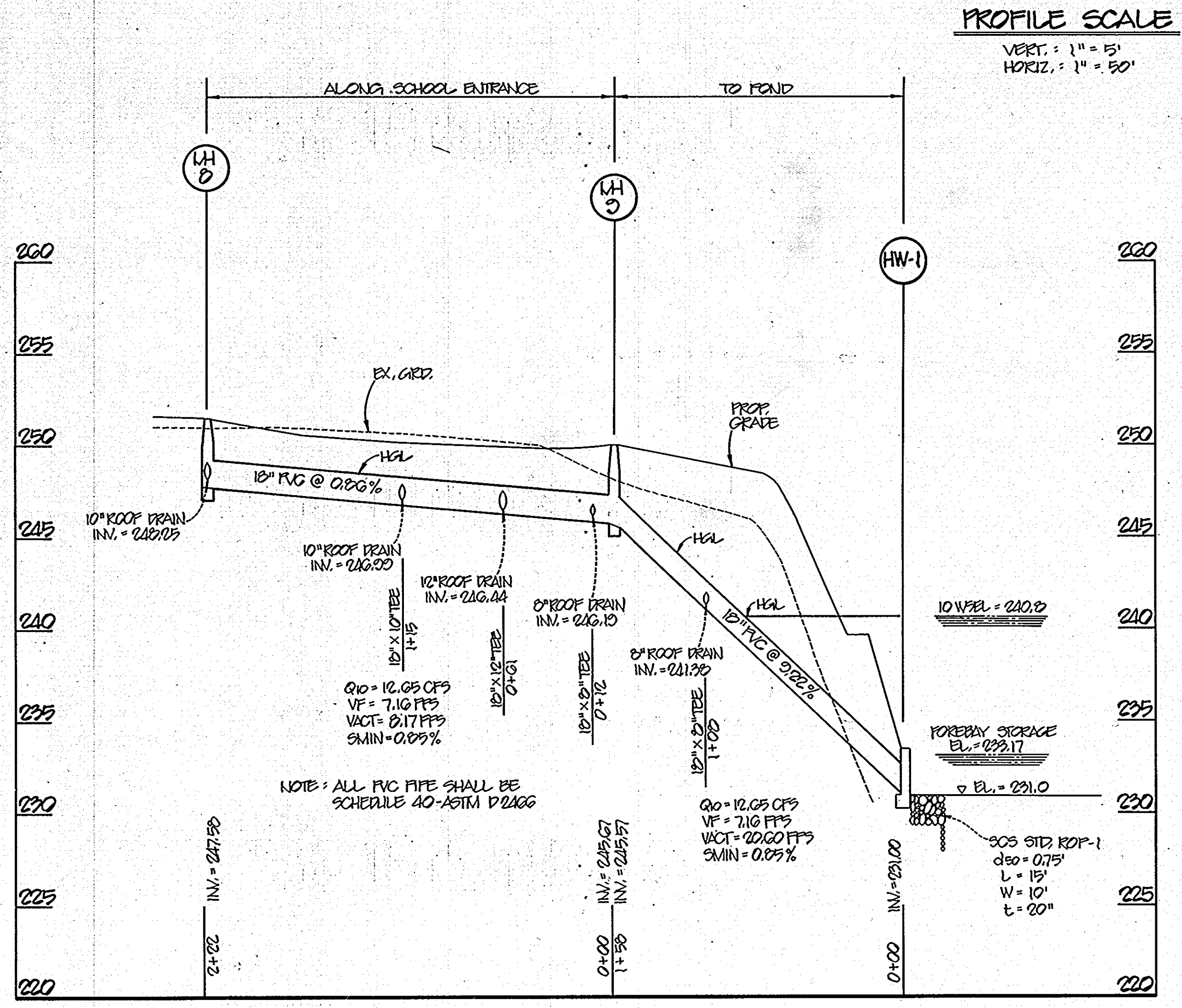




STRUCTURES SCHEDULE

NO.	TYPE	LOCATION	INT. IN	INT. OUT	TOP OF CURB OR RIM ELEV.	REMARKS
I-16	*K* - Inlet	See Plan	241.83	241.73	*250.50	Ho. Co. Std. Detail S.D. 4.12
I-17	*K* - Inlet	See Plan	243.83	243.73	*248.00	Ho. Co. Std. Detail S.D. 4.12
I-18	A-5 Depressed w/ Deflectors	See Plan	245.67	245.57	250.50	Ho. Co. Std. Detail S.D. 4.03
I-19	A-5 Depressed w/ Deflectors	See Plan	--	246.02	250.50	Ho. Co. Std. Detail S.D. 4.03
E51	Concrete End Section	See Plan	231.31	--	--	Ho. Co. Std. Detail S.D. 4.03
E52	Concrete End Section	See Plan	231.31	--	--	Ho. Co. Std. Detail S.D. 5.51
HW1	4' Std. Headwall	See Plan	--	--	--	SEE DETAIL
M58	4' Shallow Precast Manhole	See Plan	--	247.58	251.50	Ho. Co. Std. Detail G. 5.12
M59	4' Shallow Precast Manhole	See Plan	245.67	245.57	250.00	Ho. Co. Std. Detail G. 5.12
M610	4' Std. Brick Manhole	See Plan	231.97	231.87	245.00	Ho. Co. Std. Detail G. 5.01
M616	4' Std. Brick Manhole	See Plan	241.66	241.76	248.70	Ho. Co. Std. Detail G. 5.01
M617	4' Std. Brick Manhole	See Plan	242.45	242.35	249.00	Ho. Co. Std. Detail G. 5.01
M618	4' Std. Terminal Manhole	See Plan	--	246.14	251.80	Ho. Co. Std. Detail S. 1.31

\* ELEVATION SHOWN FOR I-16 & I-17 IS FOR TOP OF WALL FOR INLET; DELETE CONCRETE VALLEY CUTTER.  
 \*\* SET INLET OVER EXIST. 15" RCP



OWNER / DEVELOPER  
 BOARD OF EDUCATION OF HOWARD COUNTY  
 10910 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043

PERMIT INFORMATION CHART

Subdivision Name	Section/Area	Lot/Parcel #
NORTHEASTERN M.S.		20
Plot # of L/P	Zone	Elect. Distr
270/448	R-1B	38
Water Code	Sewer Code	Census Tract
POD	210054D	6012
Scale	Date	Addition to Approved
	2/10/94	SDP-91-27
		Plan Sheet Number

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James Smith* 2/8/94  
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF LAND DEVELOPMENT AND RESEARCH  
*Anna Swinmanis* 2/7/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*James P. Shaw* 1/24/94  
 DIRECTOR DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*James M. Boydland per JFM* 2/3/94  
 COUNTY HEALTH OFFICER DATE

Project: 98010-00, Date: 9-14-93, Engineering: MWZ, Illustration: MWZ/BL, Scale: AS SHOWN, Approval: JFM

REVISIONS

NO.	DESCRIPTION	DATE
1	REVISION TO I-16 TO I-18	1/15/94
2	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
3	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
4	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
5	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
6	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
7	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
8	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
9	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94
10	REVISION TO I-16 TO I-18 FOR COMMENTS	1/15/94

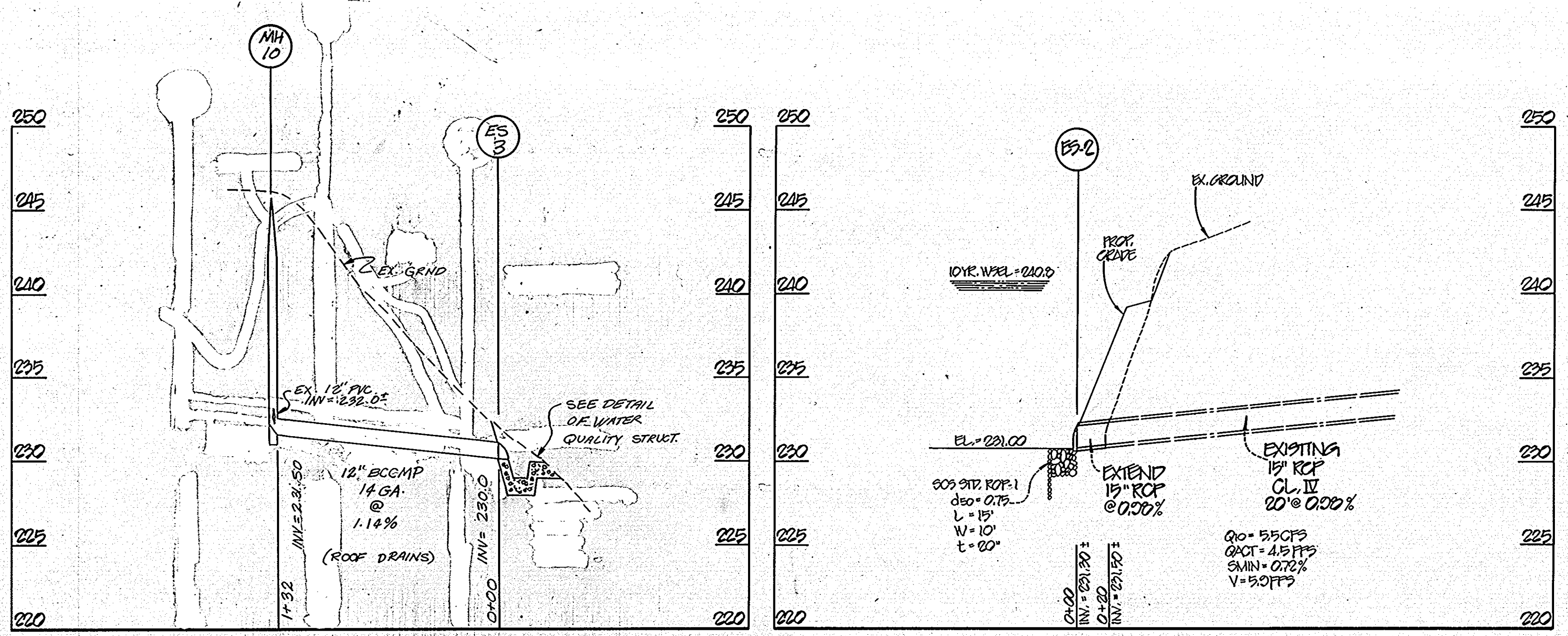
NORTHEASTERN MIDDLE SCHOOL  
 HOWARD COUNTY, MARYLAND  
 ELECTION DISTRICT No. 1  
 STORM DRAIN PROFILES & DETAILS

MILDENBERG MOCHI & ASSOCIATES, INC.  
 ENGINEERS - PLANNERS - SURVEYORS  
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350  
 (410) 461-0078 D.C. Metro: (301) 621-5766 Fax: (410) 750-6340

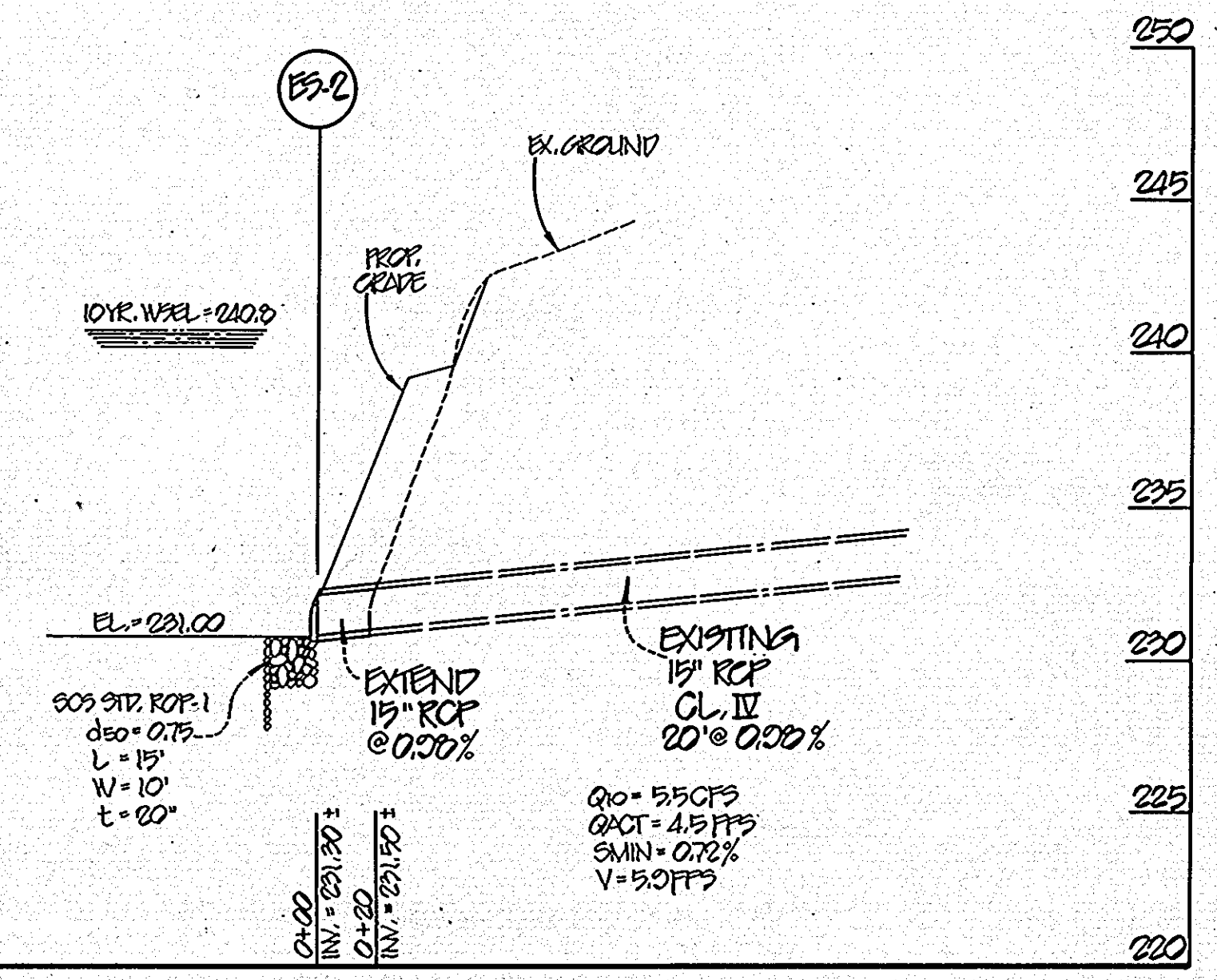
STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 No. 10020 REGISTERED

6 OF 13  
 SOP 94-46

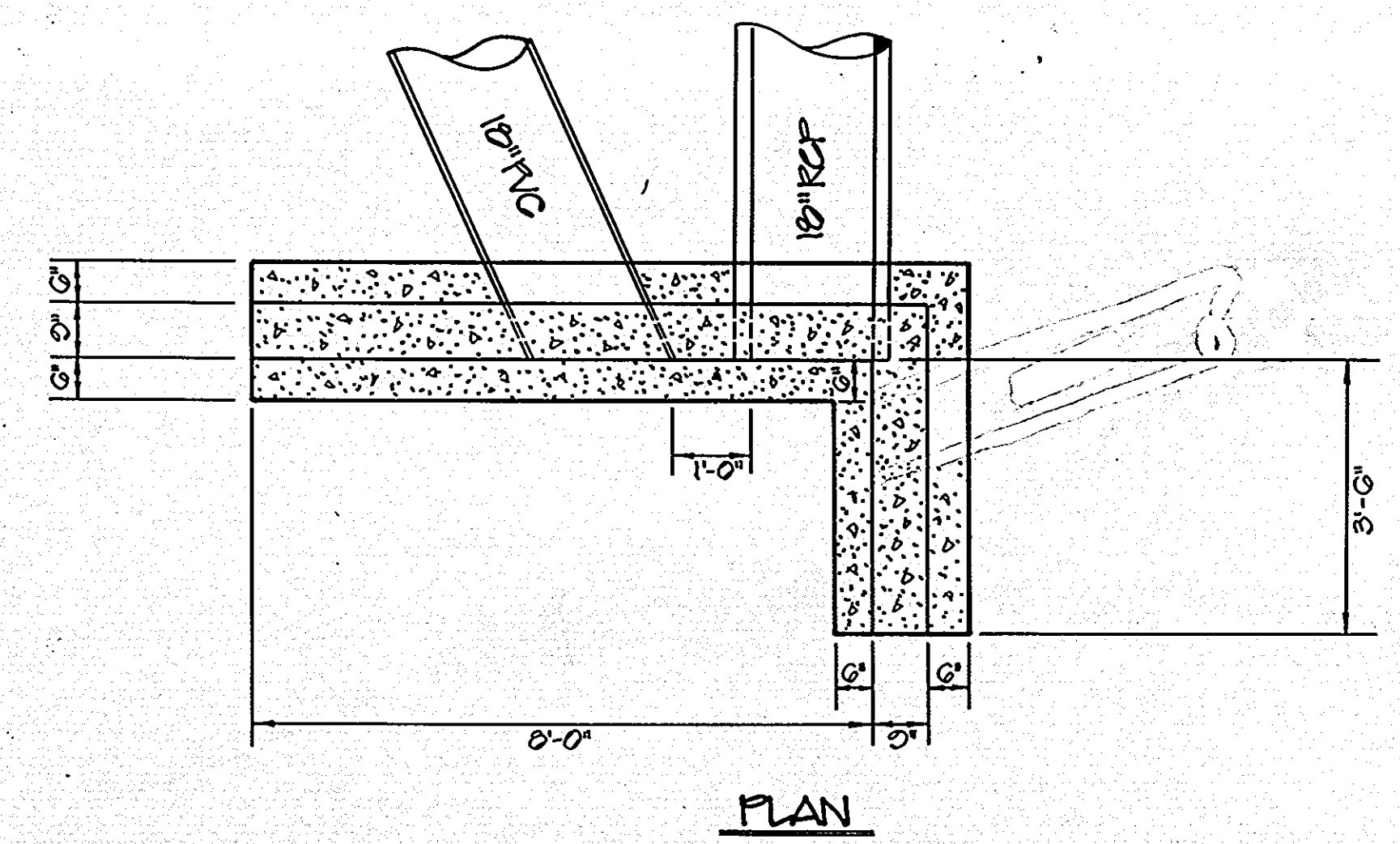




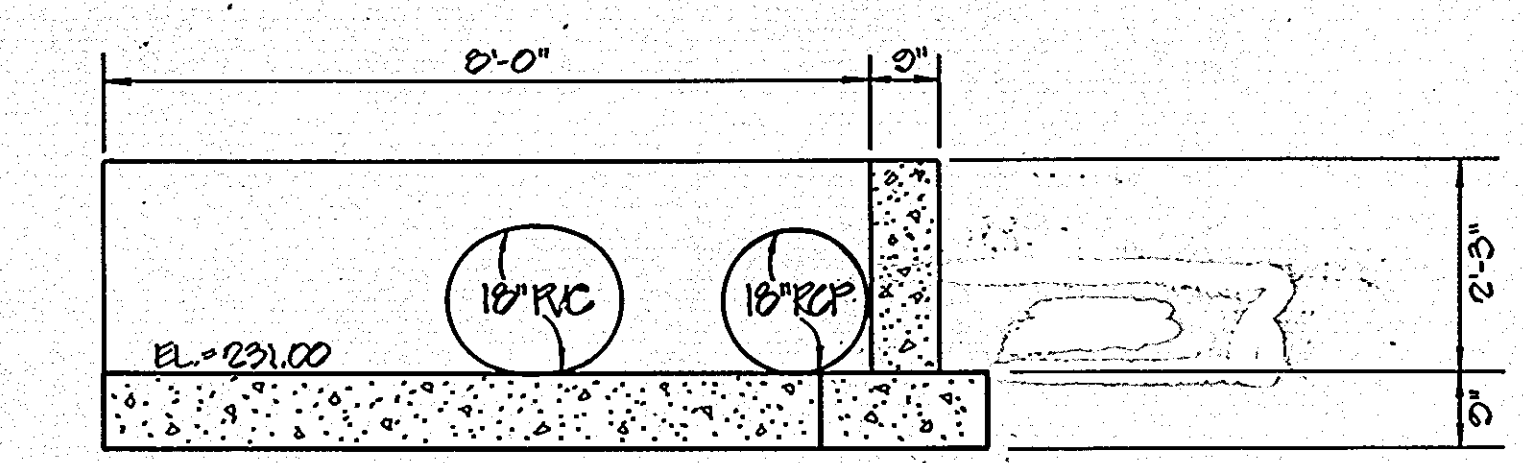
**ROOF DRAIN OUTFALL PROFILE**  
 SCALE  
 VERT. : 1" = 5'  
 HORIZ. : 1" = 50'



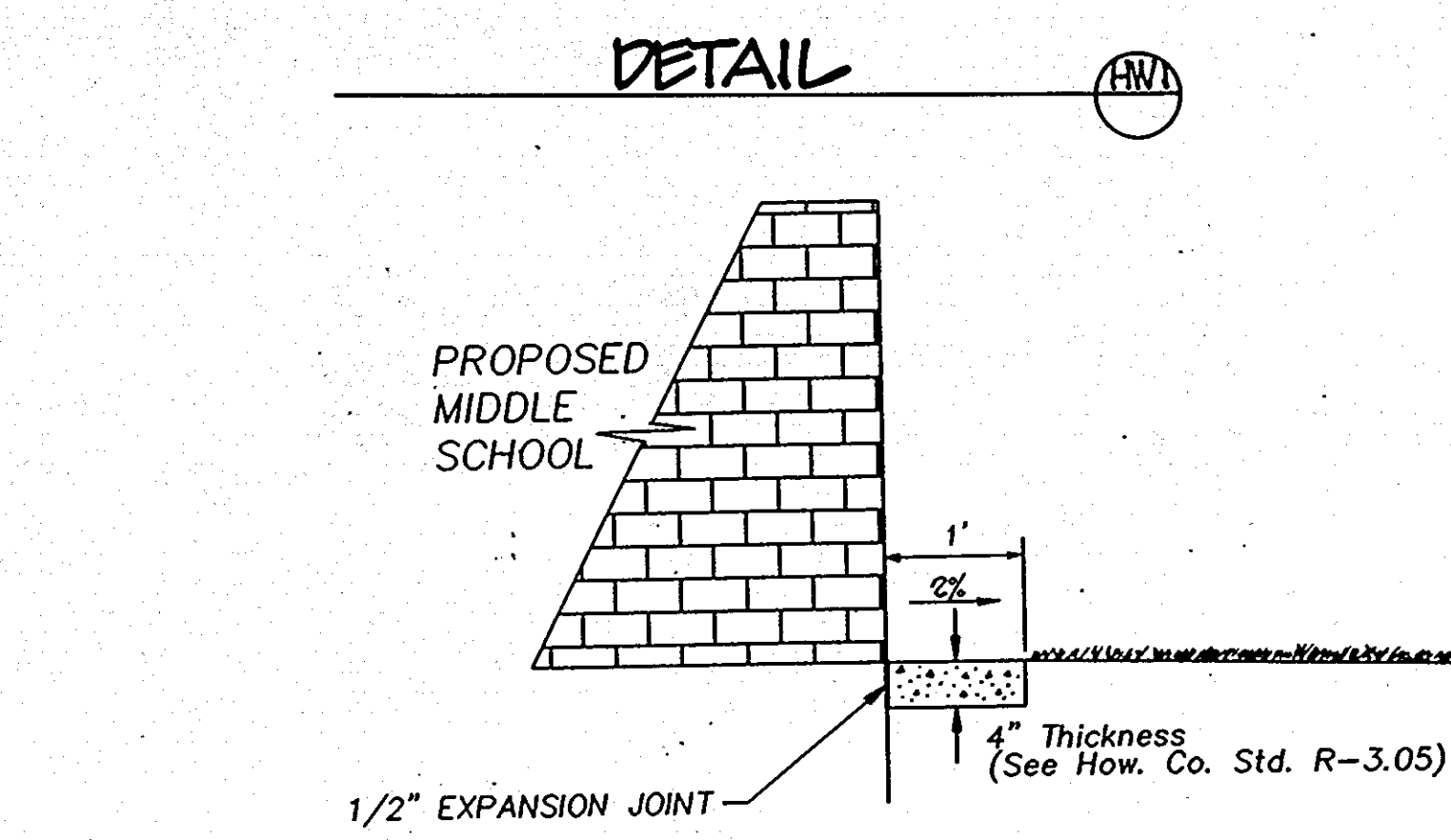
**SECTION OF LOADING DOCK**  
 NOT TO SCALE



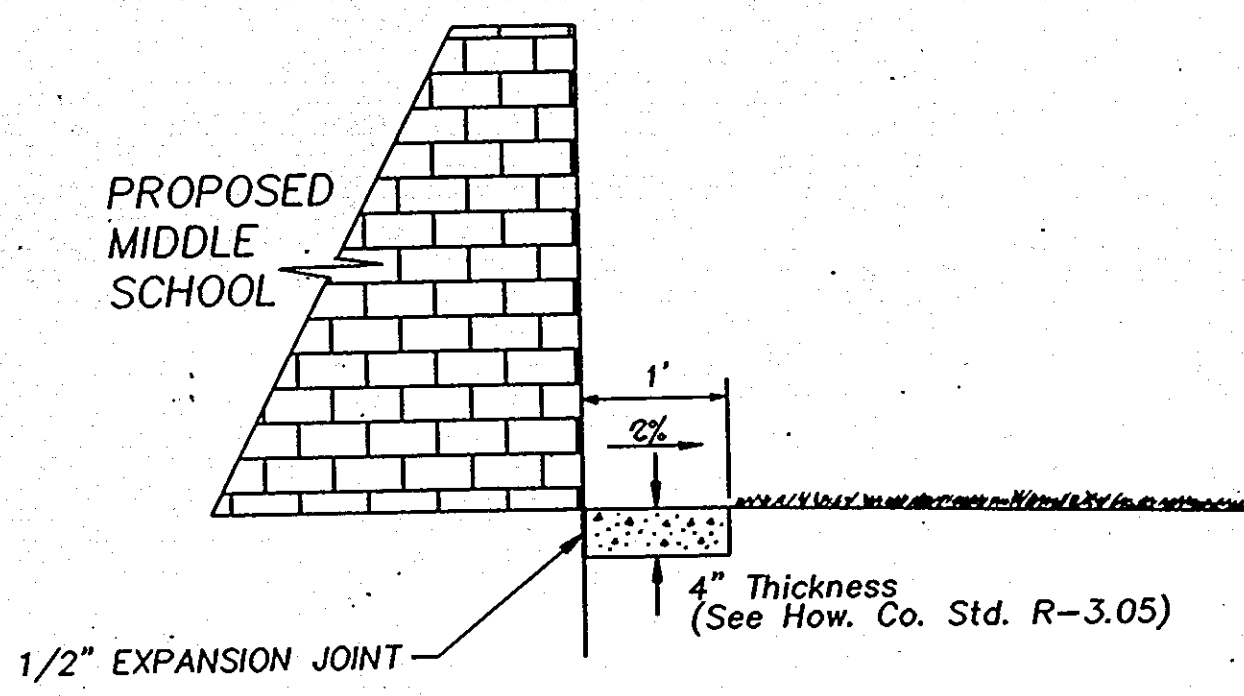
**PLAN**



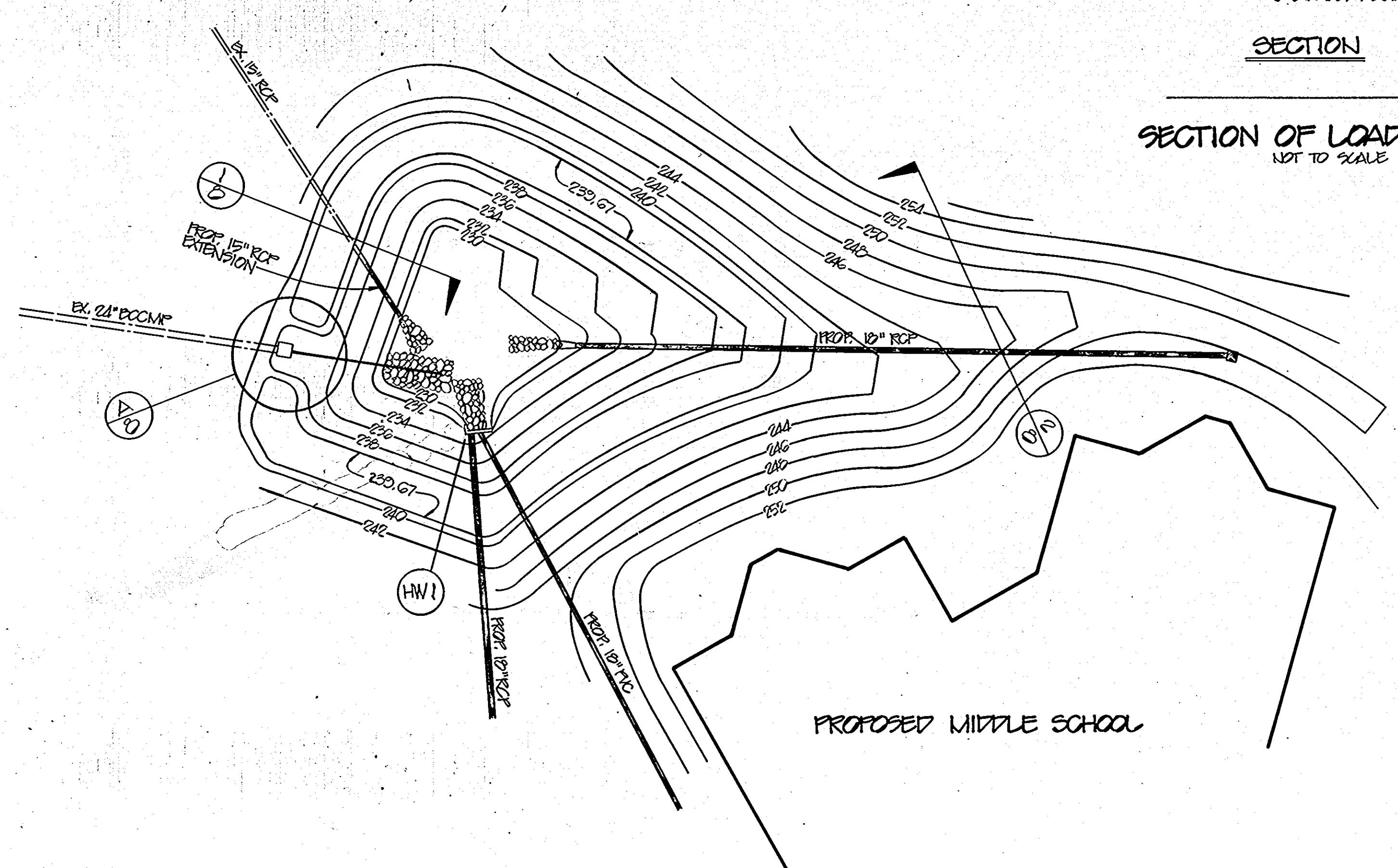
**ELEVATION**



**DETAIL**



**MOWING STRIP DETAIL**



**SEDIMENT BASIN NO. 1 / SWM POND NO. 2 DETAIL**  
 SCALE : 1" = 20'

NOTE: SEE HOWARD COUNTY STD 531 FOR DETAILS AND DIMENSIONS NOT SHOWN

PROVIDE MOWING STRIP AROUND PERIMETER OF BUILDING WHERE ADJACENT TO GRASSED AREAS.

<b>OWNER / DEVELOPER</b>			
BOARD OF EDUCATION OF HOWARD COUNTY 10910 ROUTE 108 ELLICOTT CITY, MARYLAND 21043			
<b>PERMIT INFORMATION CHART</b>			
Subdivision Name NORTHEASTERN M.S.	Section/Area	Lot/Parcel # 20	
Plot # or L/F 279/448	Block # R-EP	Tax/Zone Map 38	Elect. Distr 1st
Water Code P00	Sewer Code 21505AD	Addition to Approved SDP-91-27	
Scale	Date 2/12/94	Plan Sheet Number	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*James D. Hester* DIRECTOR 2/8/94 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*Anna Timmon* CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH 2/7/94 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*James P. Lee* DIRECTOR 1/24/94 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*Paul W. Simpson* CHIEF, BUREAU OF ENGINEERING 1/21/94 DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Joyce M. Bond* COUNTY HEALTH OFFICER 2/3/94 DATE

Project	93010-00	date	2/14/94
Illustration	BLP	engineering	MTZ
Scale	AS SHOWN	approval	JPM

REVISION	DATE	DESCRIPTION
5	6/13/94	REVISIONS
4	1/5/94	REVISIONS
3	12/15/93	REVISIONS
2	11/19/93	REVISIONS
1	10/22/93	REVISIONS

**NORTHEASTERN MIDDLE SCHOOL**  
 ELECTION DISTRICT No. 1  
 HOWARD COUNTY, MARYLAND  
 STORMWATER MANAGEMENT NOTES & DETAILS AND STORM DRAIN PROFILES

**MILDENBERG MOCHI & ASSOCIATES, INC.**  
 ENGINEERS - SURVEYORS - PLANNERS  
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350  
 (410) 461-0078 D.C. Metro: (301) 621-5766 Fax: (410) 750-6340





**SEDIMENT CONTROL NOTES**

1. 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. (992-2437)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
3. Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 calendar days for all other disturbed or graded areas on the project site.
4. All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for Permanent Seedings (Sec. 51), Sod (Sec. 54), Temporary Seeding (Sec. 50) and Mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
5. 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.
6. Site Analysis:
 

Total Area of Site:	47,6827	acres
Area to be Disturbed:	8.13	acre
Area to be roofed or paved:	3.65	acre
Area to be vegetatively stabilized:	4.48	acre
Total Cut:	14,200	cy.
Total Fill:	4200	cy.

 Offsite Waste/Borrow Area Location : \*
7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
8. Additional sediment controls must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector.

\*\* Quantities and estimates shown are for Sediment Control purposes only. Contractors shall prepare their own quantity estimates to their satisfaction.

\* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and its grading permit number at the time of construction.

**PERMANENT SEEDING NOTES**

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

Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: In lieu of soil test recommendations, use the following schedules.

- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) 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/1000 sf).
- 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through 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 sf) of rotted small grain straw immediately after seeding. Anchor mulch, immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings as necessary

**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, discing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushel per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through 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.

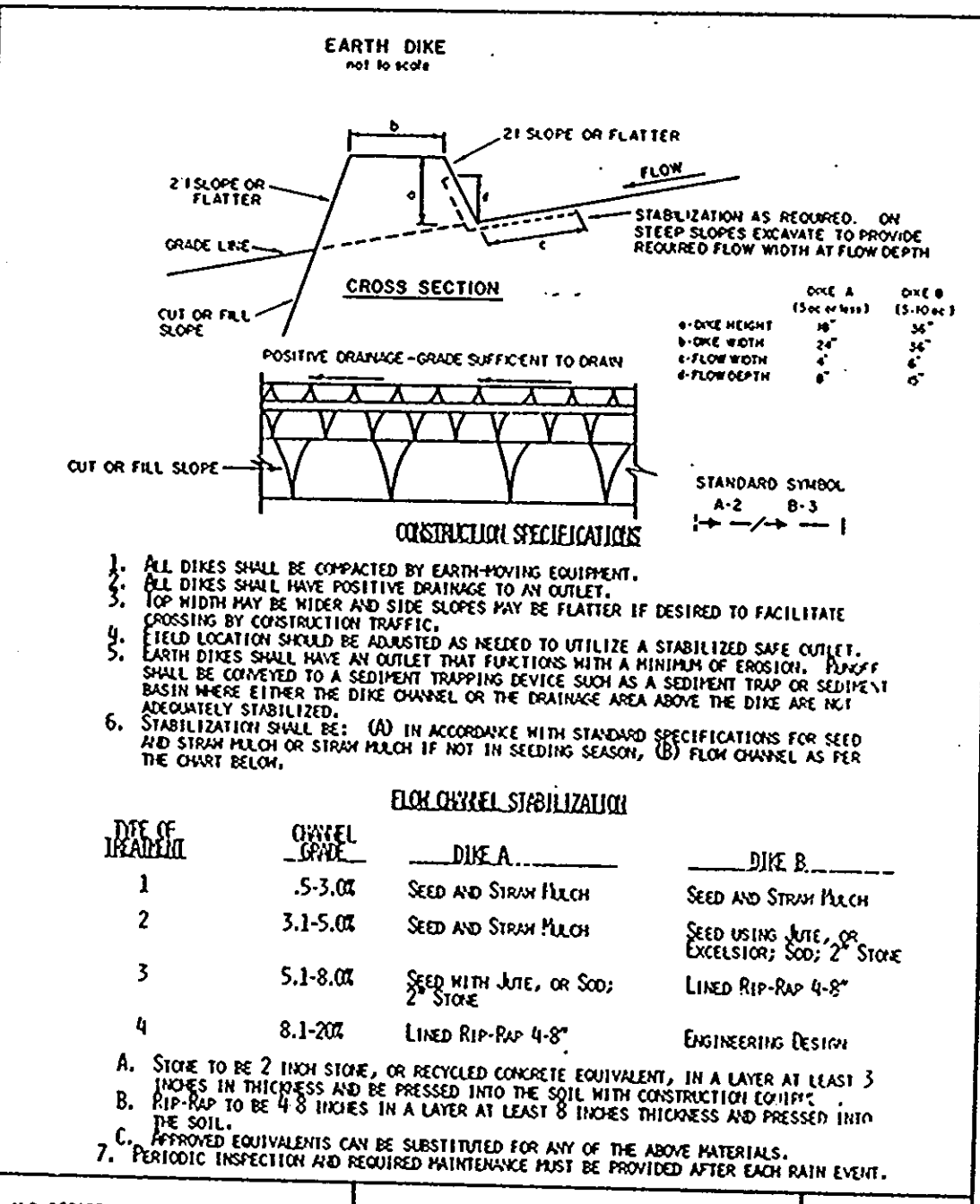
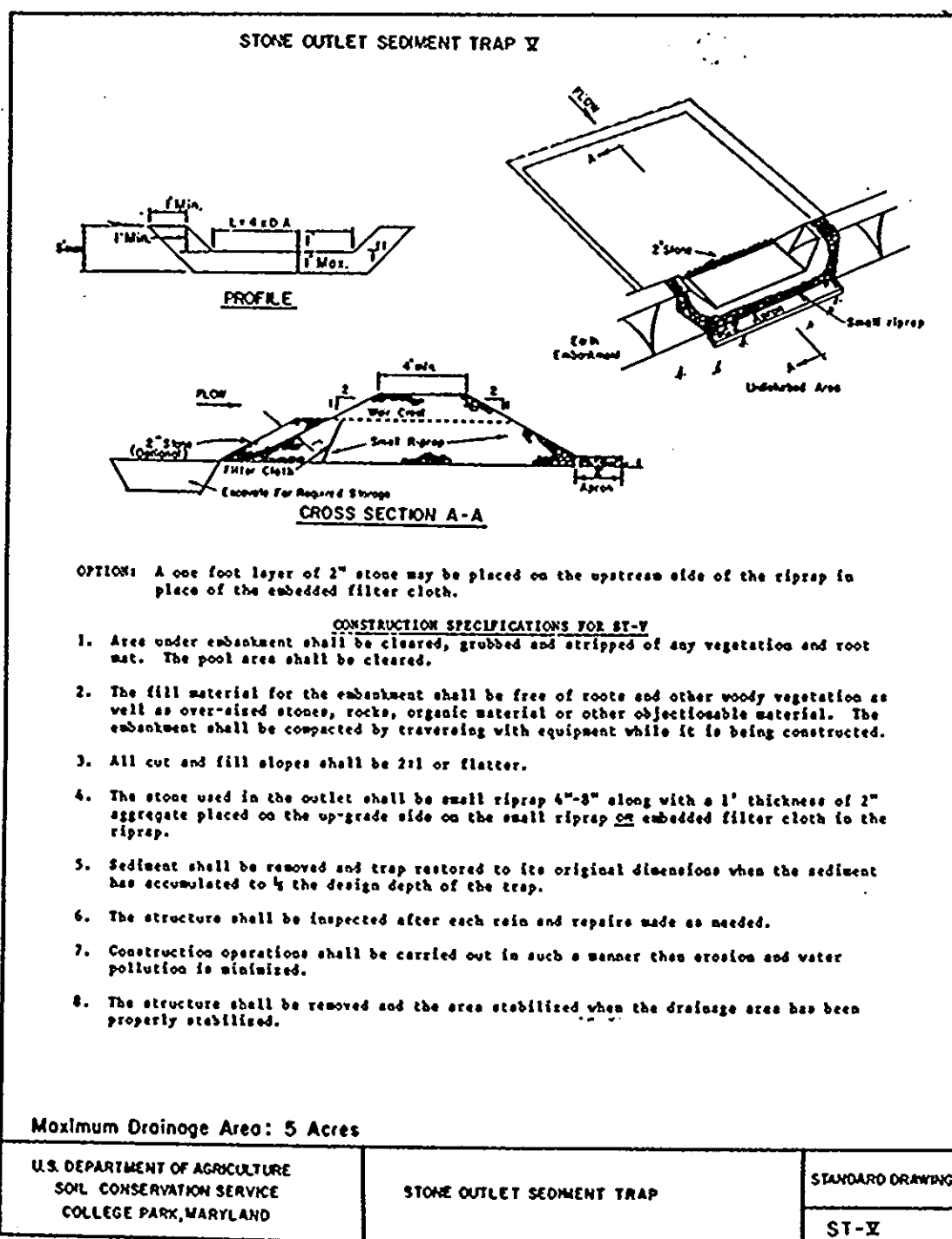
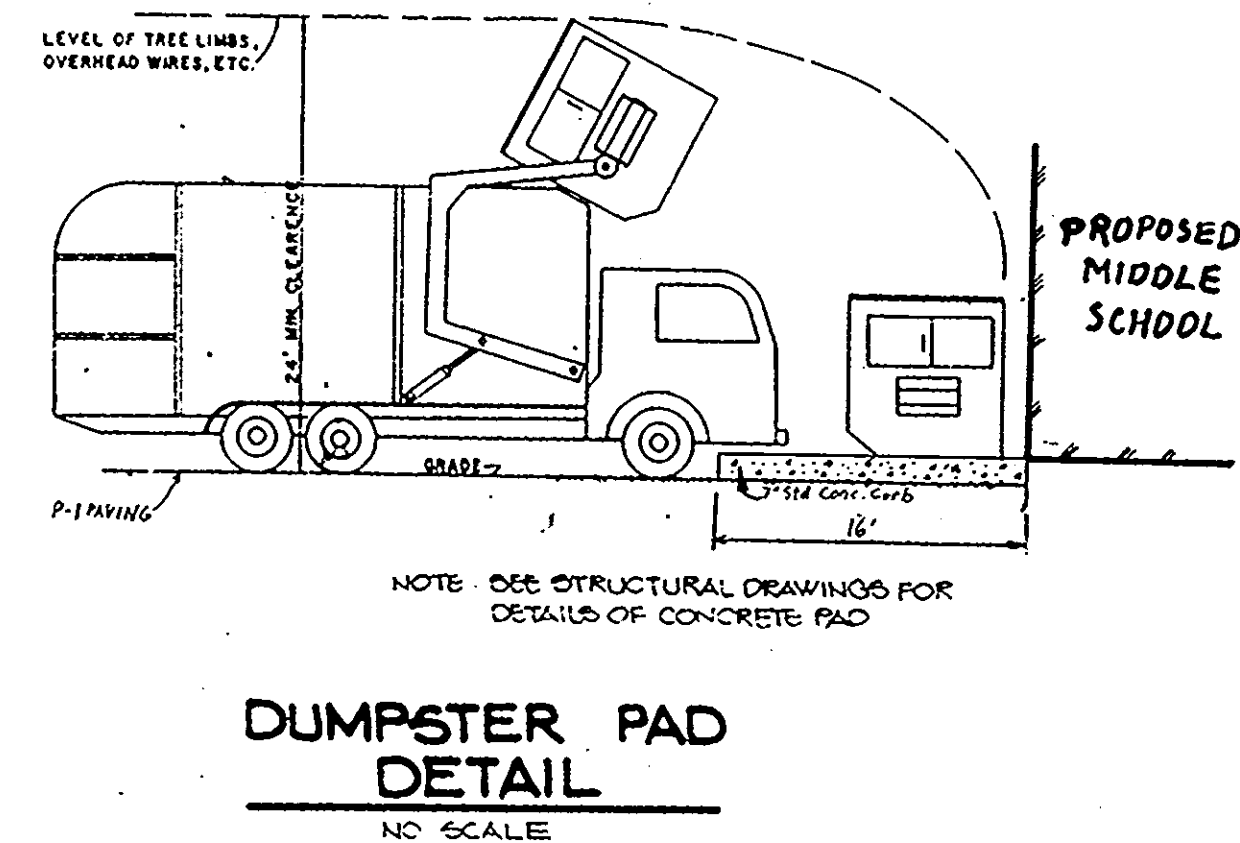
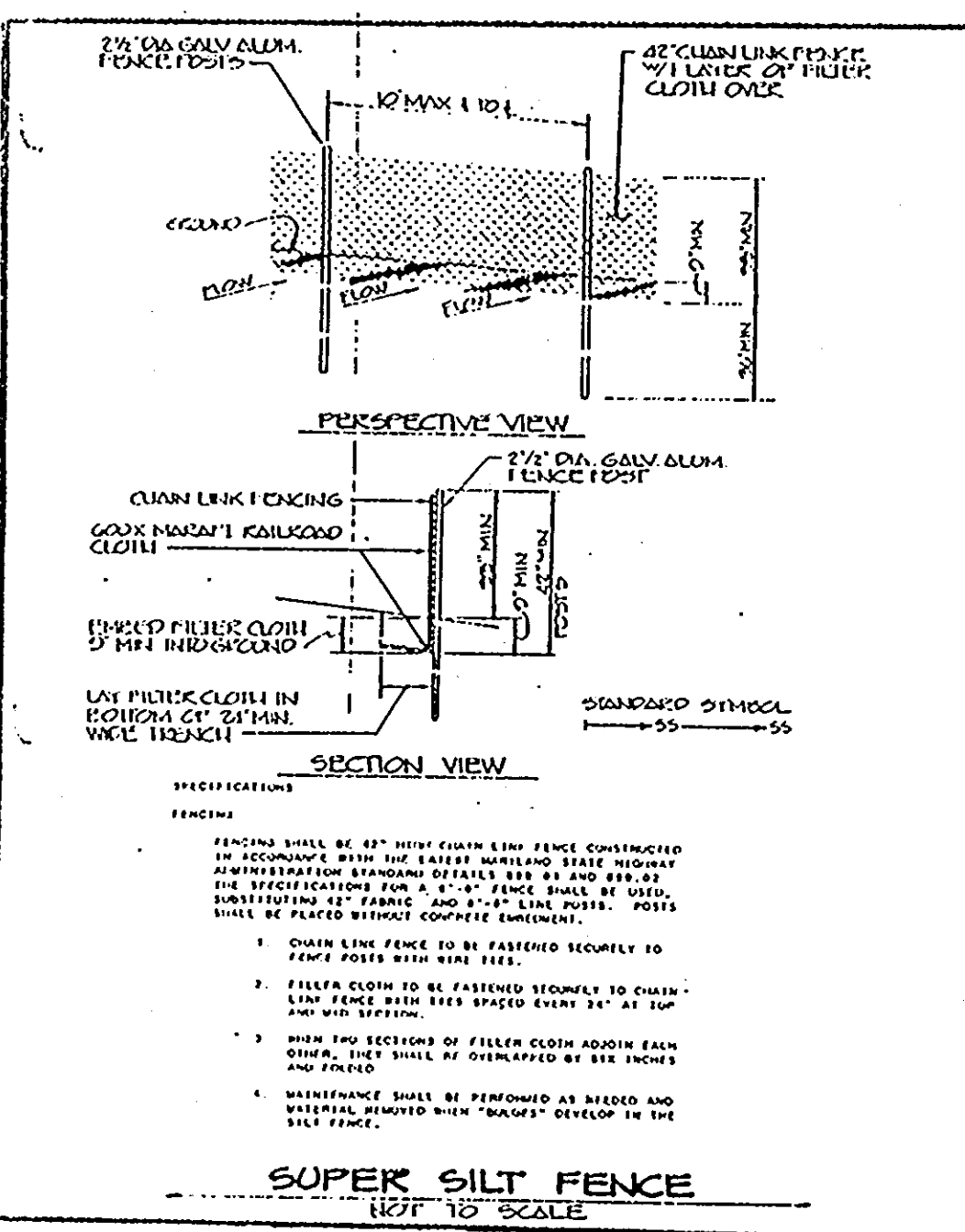
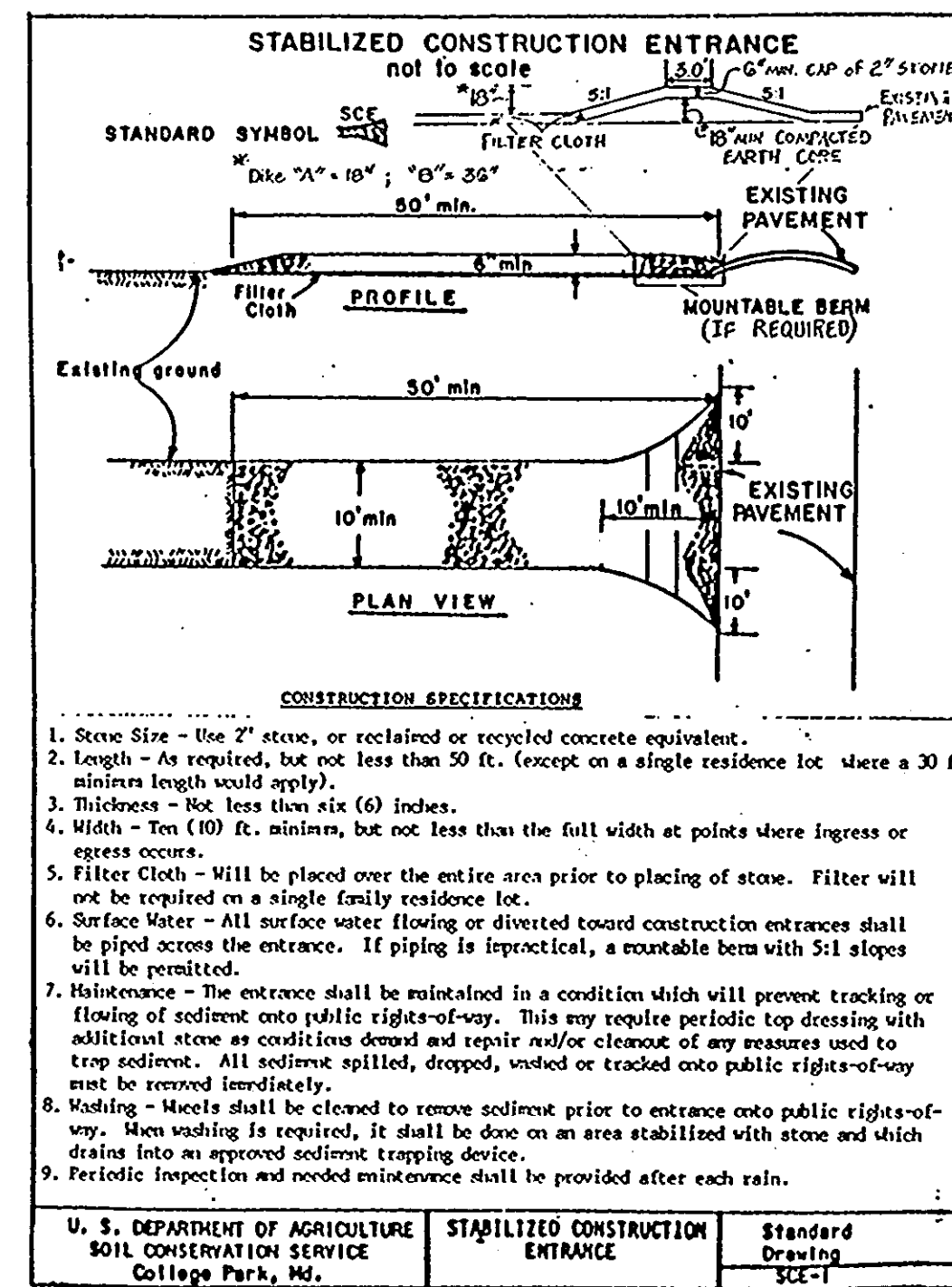
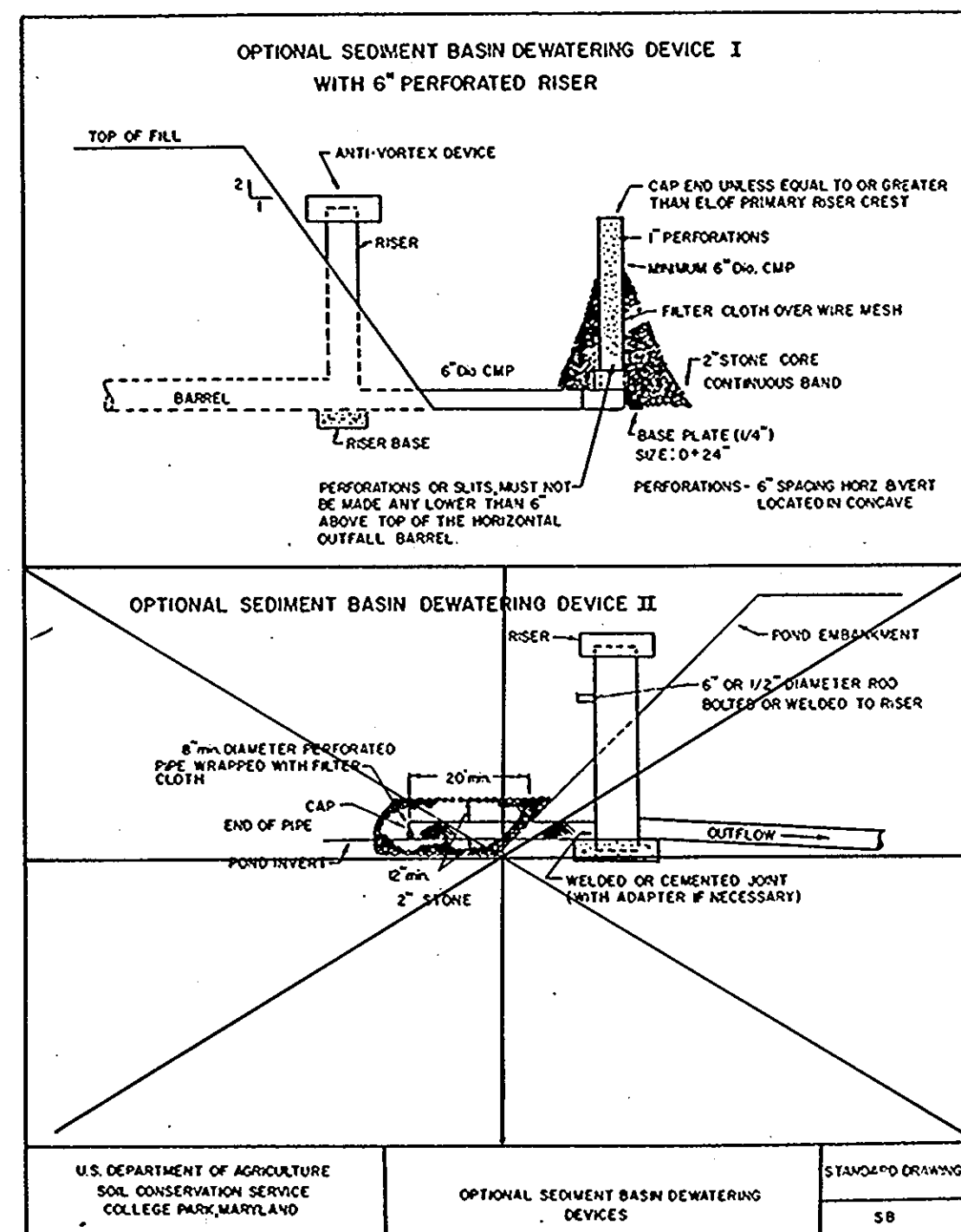
Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of rotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.

**SEQUENCE OF CONSTRUCTION**

Notify Sediment Control Division 48 hours prior to start of constructions.

1. Obtain grading permit.
2. Construct SCS Standard stabilized construction entrances as indicated.
3. Construct SCS Standard silt fence and super silt fence as indicated.
4. Reconstruct Sediment basin No. 1 (SWM basin #2) as shown, including relocated storm drain facilities, and sediment control dewatering device.
5. Construct sediment trap No. 1.
6. Brick shut or place concrete to block existing 18 inch CMP near proposed loading area.
7. When sediment trapping devices (traps and/or basins) reach their clean out elevation, remove sediment and return devices to design contour. All sediments are to be placed upstream of approved sediment devices.
8. Commence construction of school and parking facilities.
9. Stabilize all disturbed areas.
10. Upon stabilization of contributory drainage area and with the approval of the Sediment Control Inspector remove sediment devices and stabilize area.
11. Upon conversion of Sediment Basin No. 1 to Stormwater Management Pond 2, Remove accumulated sediments and perforated 6" PVC pipe. Replace 6" PVC pipe per detail A sheet 2 of 12.



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
 [Signature] 2/3/94  
 DIRECTOR

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
 [Signature] 2/17/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
 [Signature] 2/3/94  
 COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
 [Signature] 1/26/94  
 DIRECTOR

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
 [Signature] 1/21/94  
 CHIEF, BUREAU OF ENGINEERING

APPROVED: THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
 [Signature] 1/12/94  
 HOWARD SOIL CONSERVATION DISTRICT

APPROVED: REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
 [Signature] 1-12-94  
 U. S. SOIL CONSERVATION SERVICE

ENGINEER'S CERTIFICATE  
 I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard County Soil Conservation District.  
 [Signature] Jan 5 94  
 John B. Milberger, P.E.  
 Date

OWNER / DEVELOPER  
 BOARD OF EDUCATION OF HOWARD COUNTY  
 10810 ROUTE 108  
 ELLICOTT CITY, MARYLAND 21043

PERMIT INFORMATION CHART  
 Subdivision Name: NORTHEASTERN M.S. Section/Area: --- Lot/Parcel #: 20  
 Plot # or L/P: 279/448 Zone: R-ED7 Tax/Zone Map: 38 Elect. Dist: 1st Census Tract: 6012  
 Water Code: D09 Sewer Code: 2150548 Addition to Approved: SDP-91-27  
 Scale: --- Date: --- Plan Sheet Number: ---

DEVELOPER'S CERTIFICATE  
 I/we certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as or deemed necessary.  
 [Signature] 1/4/94  
 Signature of Developer

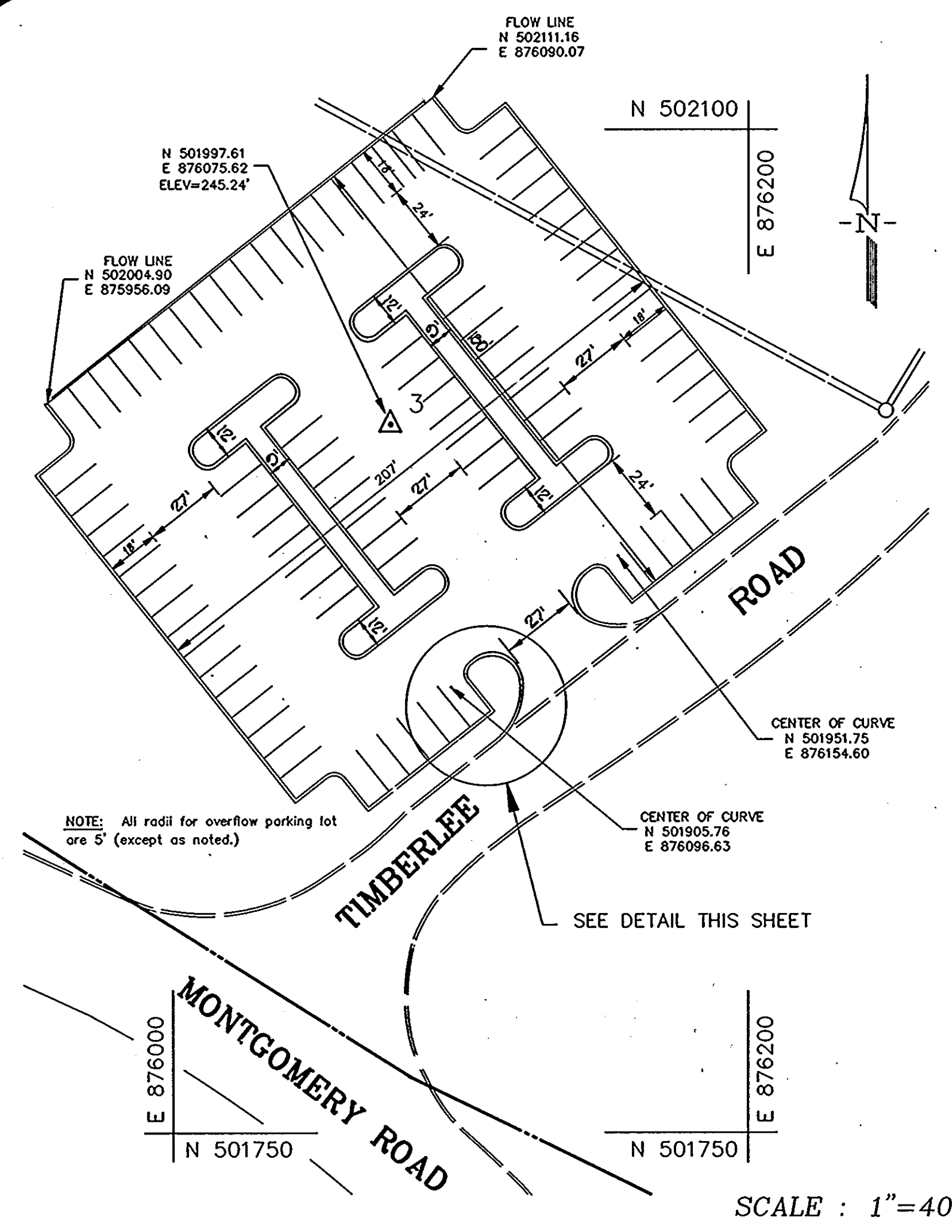
Project: 8910-D-00  
 Date: 11-21-93  
 Engineering: M/WZ  
 Approval: JWB

Submitted to: MD CO. DPW FOR SCANTINES  
 1/15/94  
 Revised by: MD CO. DPW PERMITS DIVISION  
 1/15/94  
 Submitted for: MD CO. DPW FOR REVIEW  
 1/15/94  
 Submitted for: MD CO. DPW FOR REVIEW  
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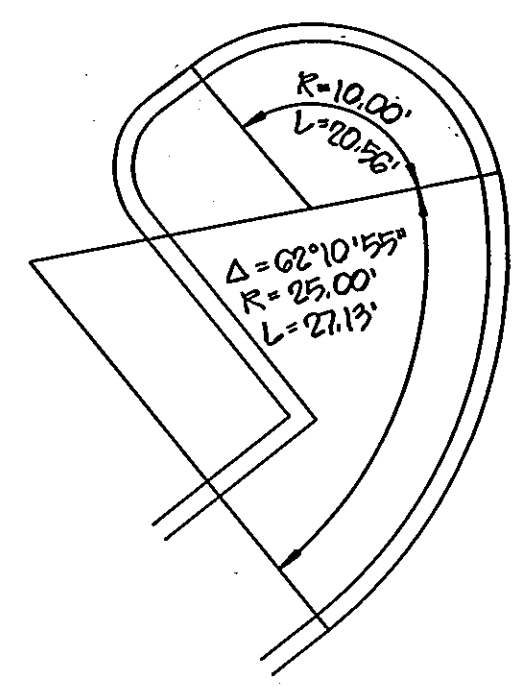
NORTHEASTERN MIDDLE SCHOOL  
 ELECTION DISTRICT No. 1  
 HOWARD COUNTY, MARYLAND  
 EROSION & SEDIMENT CONTROL NOTES

MILBERGER MOCHI & ASSOCIATES, INC.  
 ENGINEERS • SURVEYORS • PLANNERS  
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland  
 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340



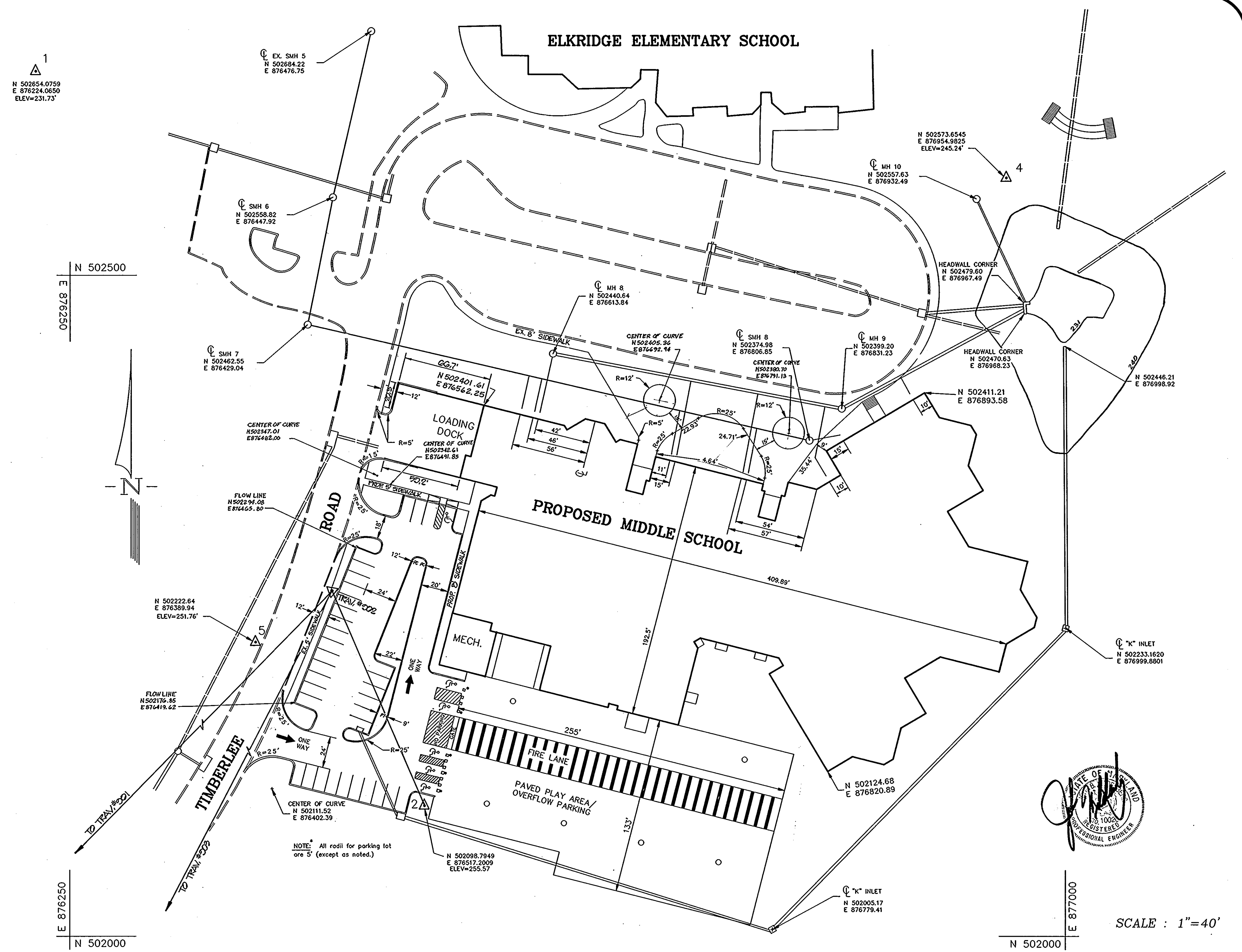


SCALE : 1"=40'



PARKING LOT ENTRANCE DETAIL

SCALE : 1"=10'



SCALE : 1"=40'

COORDINATE TABLE		
STATION	PROJECT DATUM	NAD 83
TRAV. 5	N 502222.645 E 876389.340	N 502271.394 E 876402.026
TRAV. 2	N 502076.705 E 876517.201	N 502048.180 E 876296.305
TRAV. 209	N 501702.052 E 876158.027	N 501851.308 E 876077.122
TRAV. 202	N 502261.266 E 876447.833	N 502010.980 E 876266.266
TRAV. 201	N 501844.614 E 876042.012	N 502093.703 E 876241.264

**OWNER / DEVELOPER**  
 BOARD OF EDUCATION OF HOWARD COUNTY  
 10910 ROUTE 108  
 ELlicOTT CITY, MARYLAND 21043

PERMIT INFORMATION CHART			
Subdivision Name	Section/Area	Lot/Parcel #	
NORTHEASTERN M.S.	20		
Plot # or L/F	Block #	Zone	Census Tract
279/44B	---	38	8012
Water Code	Sewer Code	Elect. Distr	
D09	215054B	1st	
Scale	Date	Addition to Approved	
AS SHOWN		SD-91-27	
		Plan Sheet Number	

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Jung H. Seon* 2/8/94  
 DIRECTOR DATE

*Jim Swinburn* 2/7/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*James J. Lee* 1/28/94  
 DIRECTOR DATE

*Paul J. Seaman* 1/21/94  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Joyce M. England per JFM* 2/3/94  
 COUNTY HEALTH OFFICER DATE

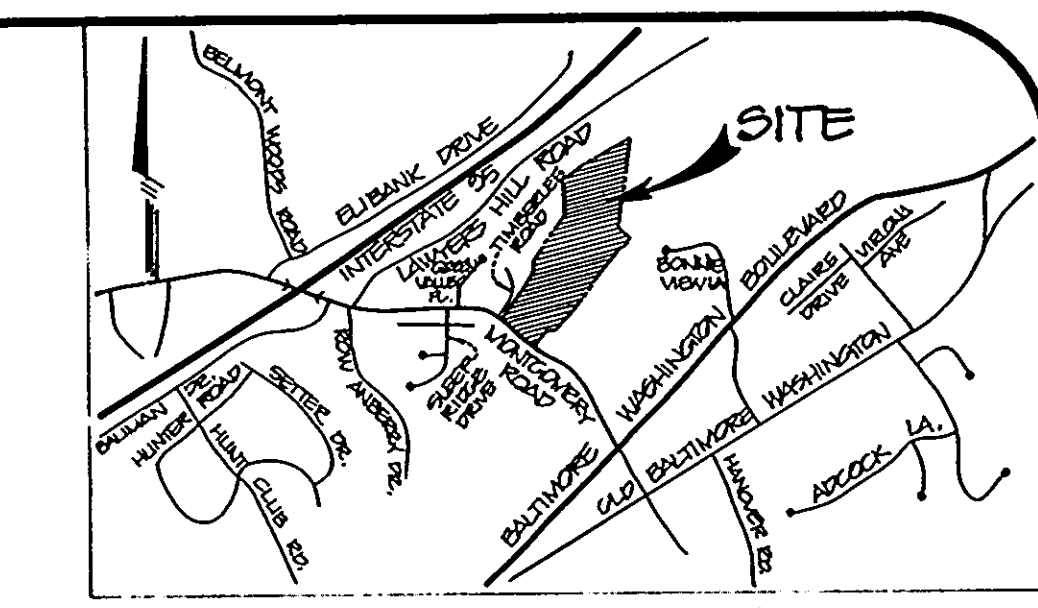
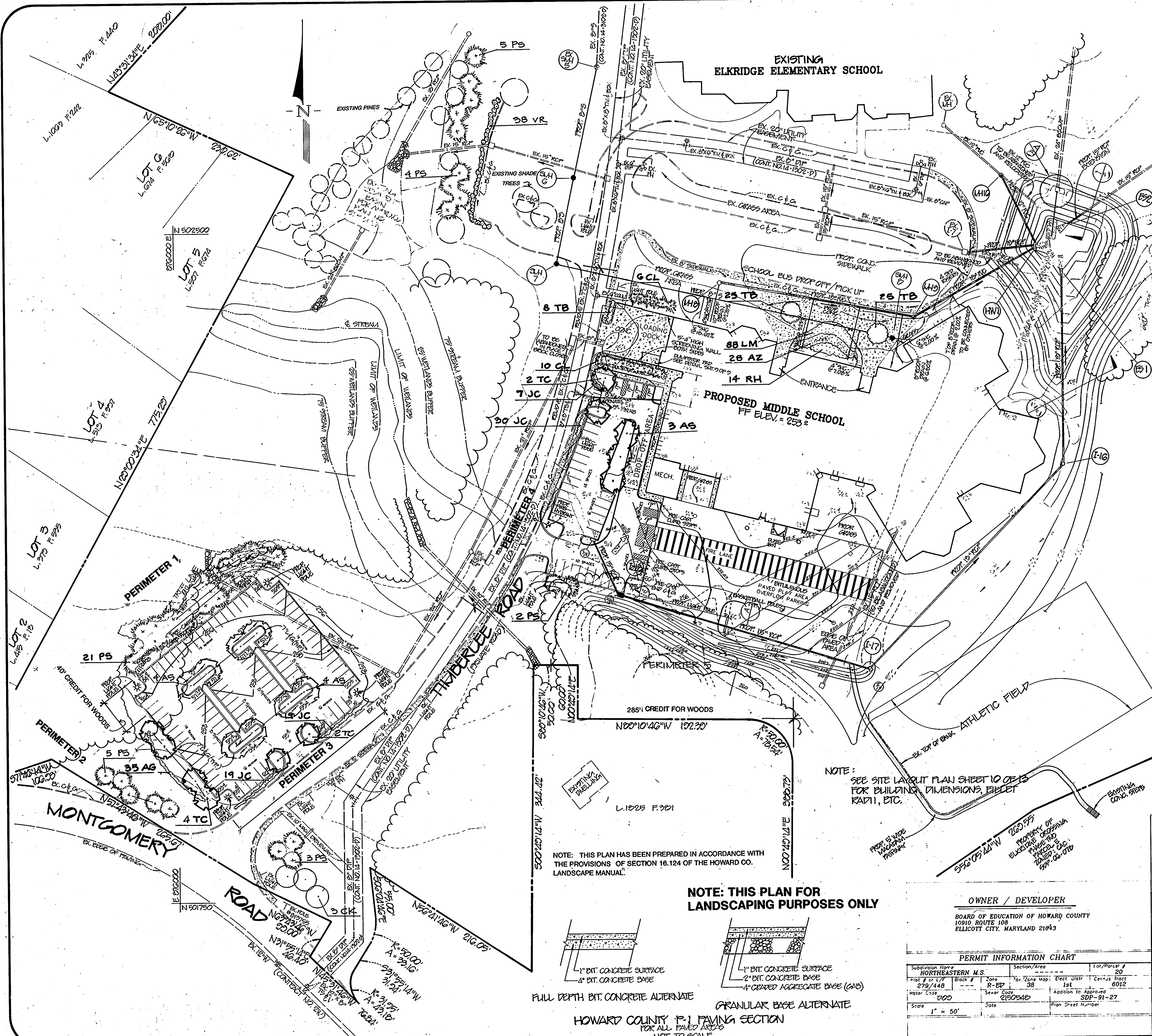
Project	date	approval
93010-00	11/1/93	AS SHOWN
Illustration	engineering	
MWZ	MWZ	
scale	scale	

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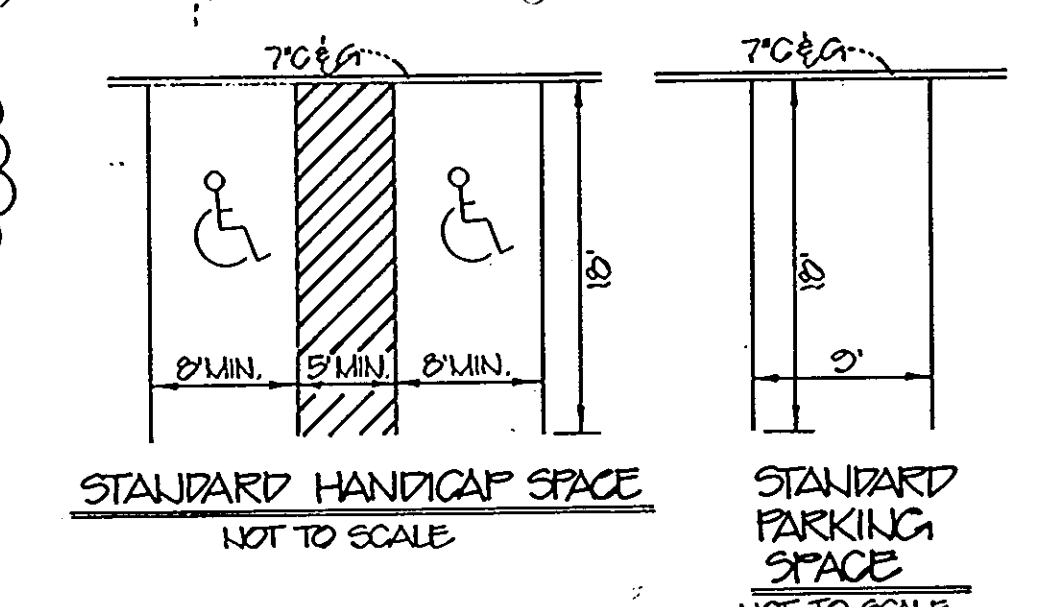
**NORTHEASTERN MIDDLE SCHOOL**  
 ELECTION DISTRICT No. 1  
 HOWARD COUNTY, MARYLAND  
 LAYOUT PLAN

**MILDENBERG MOCHI & ASSOCIATES, INC.**  
 ENGINEERS • SURVEYORS • PLANNERS  
 3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21045-3350  
 (410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340

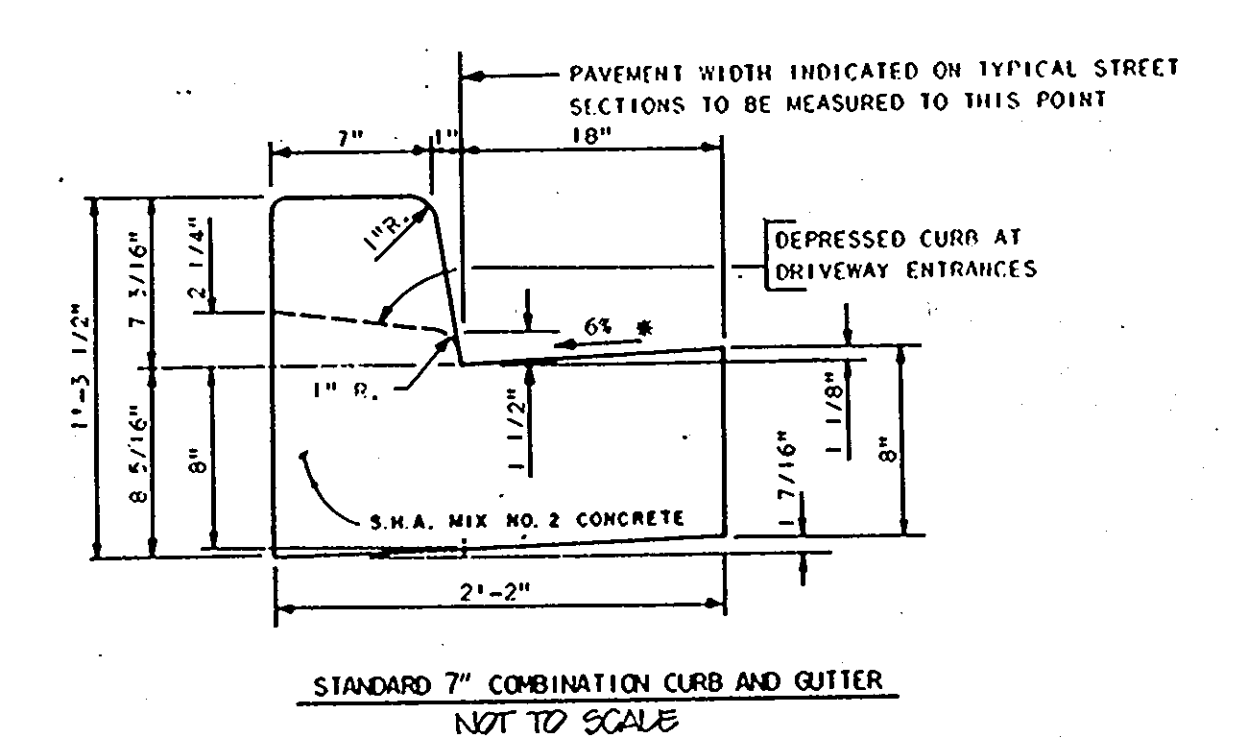




VICINITY MAP  
SCALE 1" = 2000'

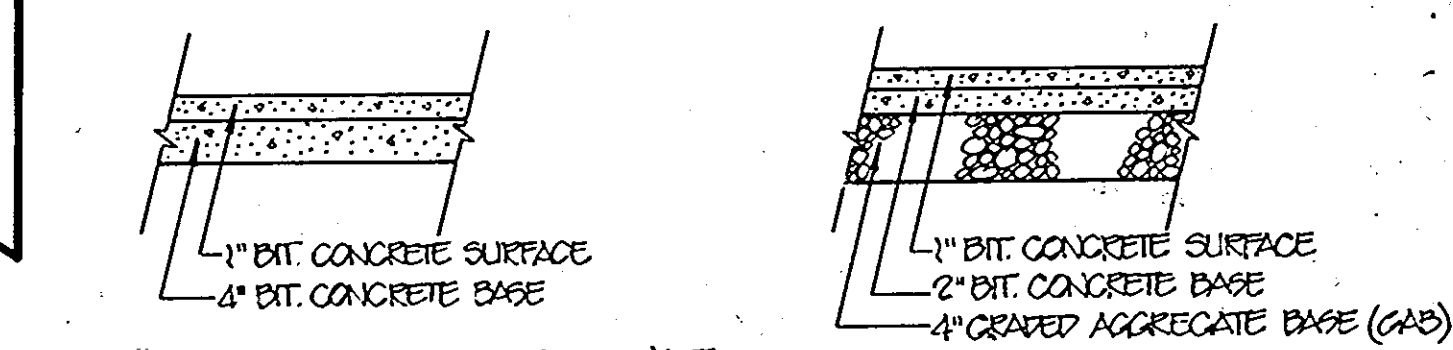


\* NOTE: THIS HANDICAP SPACE IS DESIGNATED "MAN-ACCESSIBLE" SHALL NOT EXCEED 2% IN ANY DIRECTION.



NOTE: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD CO. LANDSCAPE MANUAL.

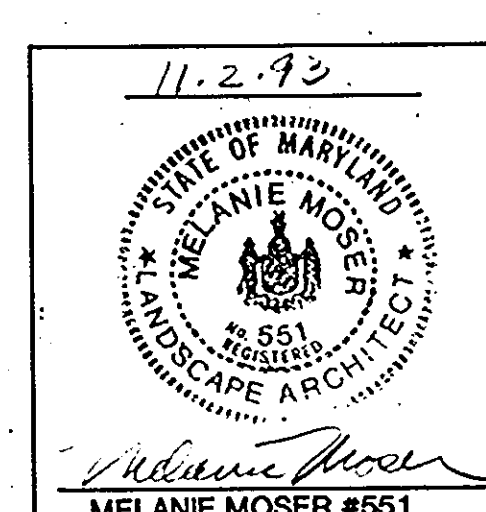
NOTE: THIS PLAN FOR LANDSCAPING PURPOSES ONLY



HOWARD COUNTY P-1 PAVING SECTION FOR ALL PAVED AREAS NOT TO SCALE

NOTE: SEE SITE LAYOUT PLAN SHEET 10 OF 15 FOR BUILDING DIMENSIONS, EJECT RADI, ETC.

NOTE: LANDSCAPE PLAN ONLY PREPARED BY:  
RIEVER MUECCKE & ASSOCIATES, INC.  
A Land Planning, Engineering and Consulting Firm  
8210 Centre Park Drive - Suite 200 Columbia, Maryland 21045  
301-997-6900 FAX: 301-997-9282



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*[Signature]* 2/8/94  
 DIRECTOR DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*[Signature]* 2/19/94  
 CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

APPROVED: HOWARD COUNTY DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*[Signature]* 1/21/94  
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*[Signature]* 2/3/94  
 COUNTY HEALTH OFFICER DATE

OWNER / DEVELOPER  
BOARD OF EDUCATION OF HOWARD COUNTY  
10910 ROUTE 108  
ELlicOTT CITY, MARYLAND 21043

Subdivision Name		Section/Area		Lot/Parcel #	
NORTHEASTERN M.S.		R-ED 38		20	
Plot # or Lot #	Block #	Zone	Var. Zone Map	Eject. Distr.	Census Tract
279/448		R-ED	38	1st	6012
Water Code	Sewer Code	Addition to Approved			
700	6150540	SDP-91-27			
Scale	Date	Plan Sheet Number			
1" = 50'					

Project: 93010-00  
 Date: 9-14-83  
 Engineering: MWZ  
 Illustration: MWZ  
 Scale: 1" = 50'  
 Approval: JLM

1/21/94  
 2/8/94  
 2/19/94  
 1/21/94  
 2/3/94

APPROVED: NACAROLA PATHWAY  
 REVISED PLAY AREA  
 SUBMITTED TO HOWARD COUNTY BOARD OF EDUCATION  
 REVISION # 11-2-93  
 SUBMITTED TO HOWARD COUNTY HEALTH DEPARTMENT  
 REVISION # 11-2-93

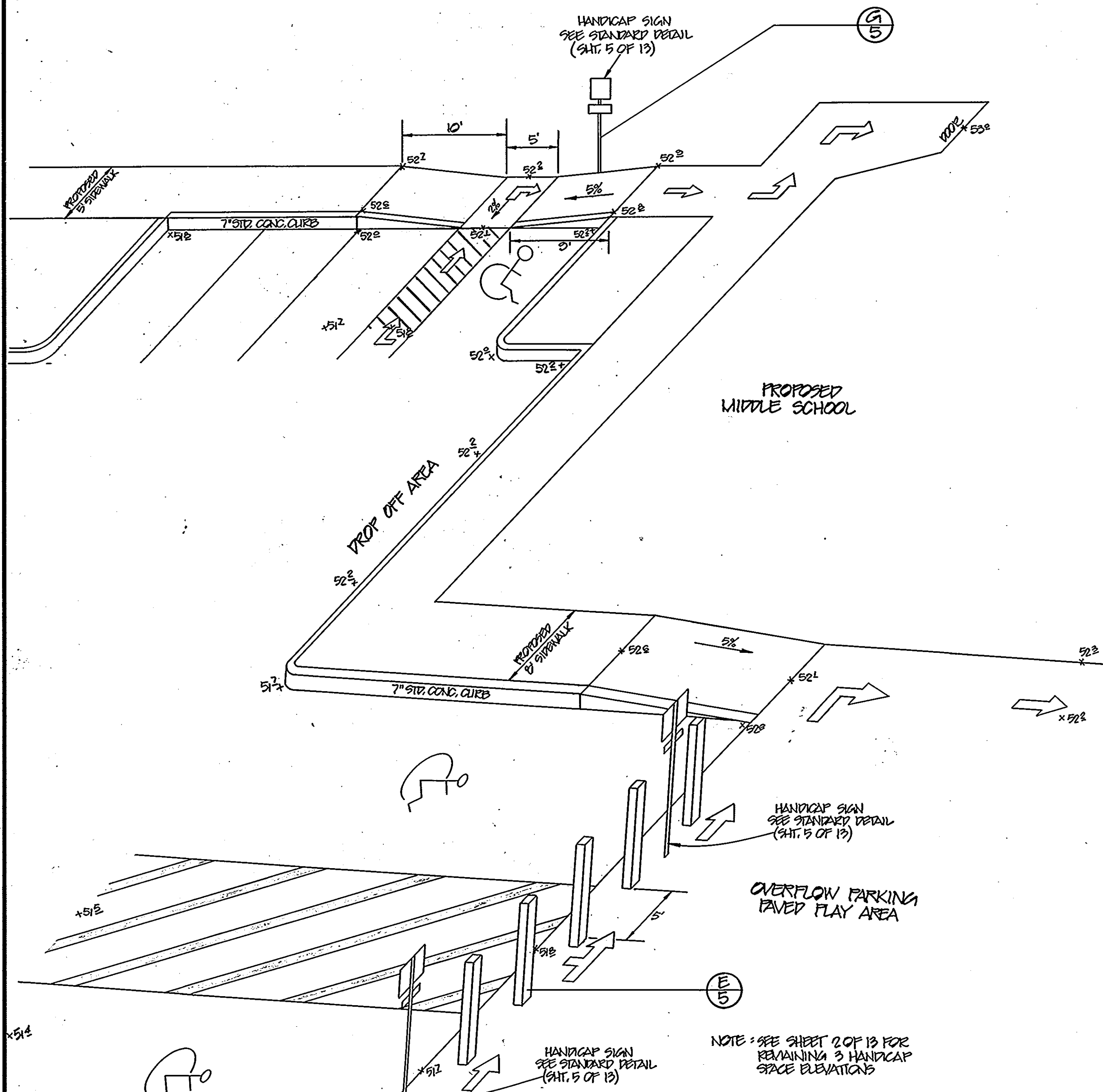
NORTHEASTERN MIDDLE SCHOOL  
 ELECTION DISTRICT No. 1  
 HOWARD COUNTY, MARYLAND  
 LANDSCAPE PLAN

11 OF 13  
 50094-48

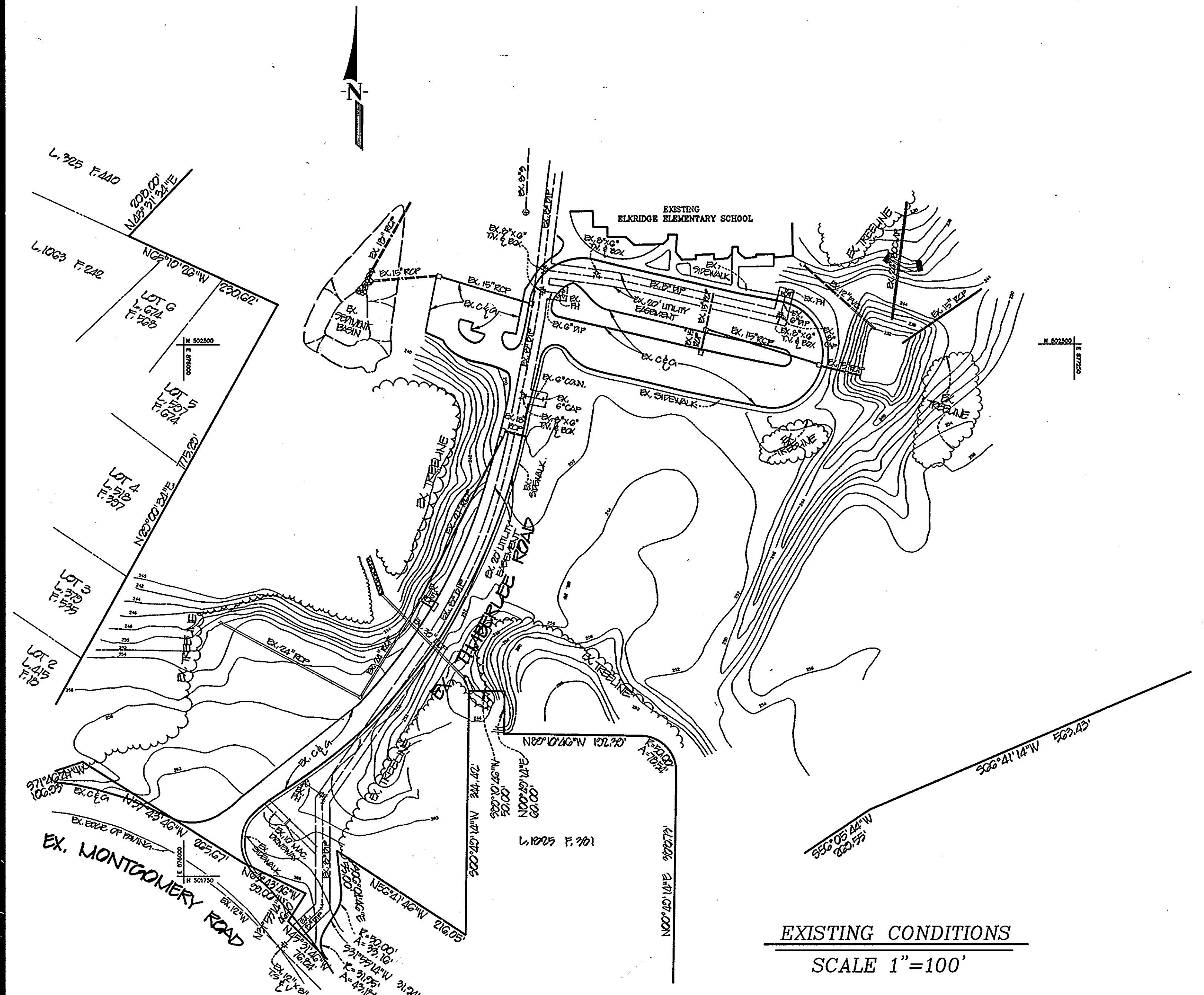
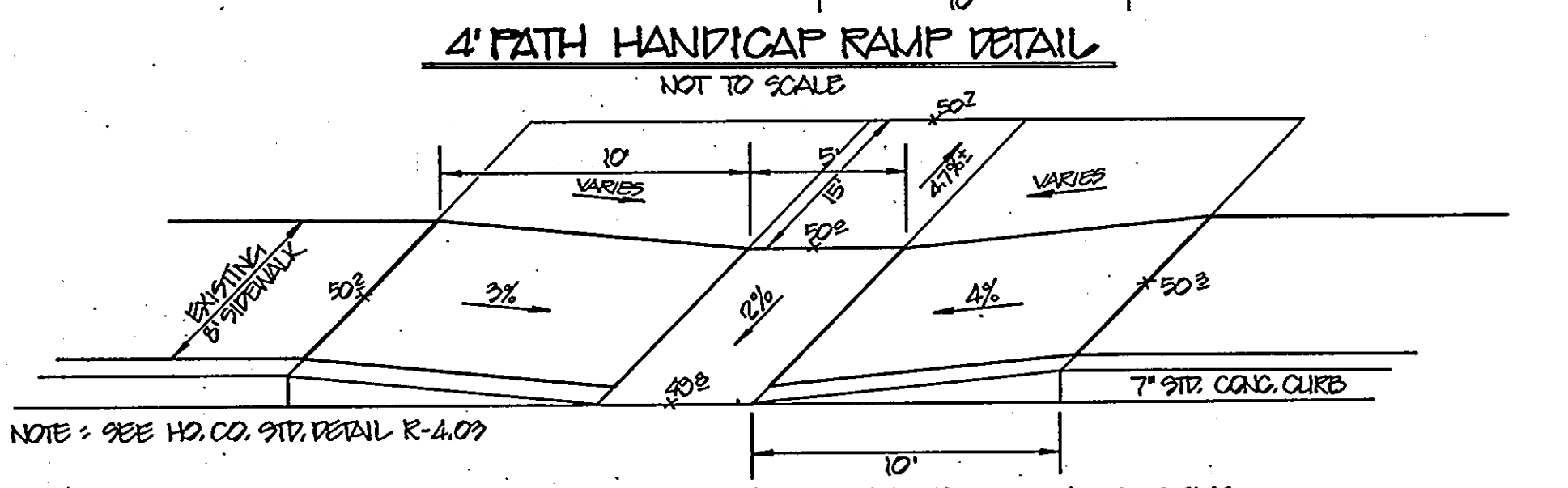
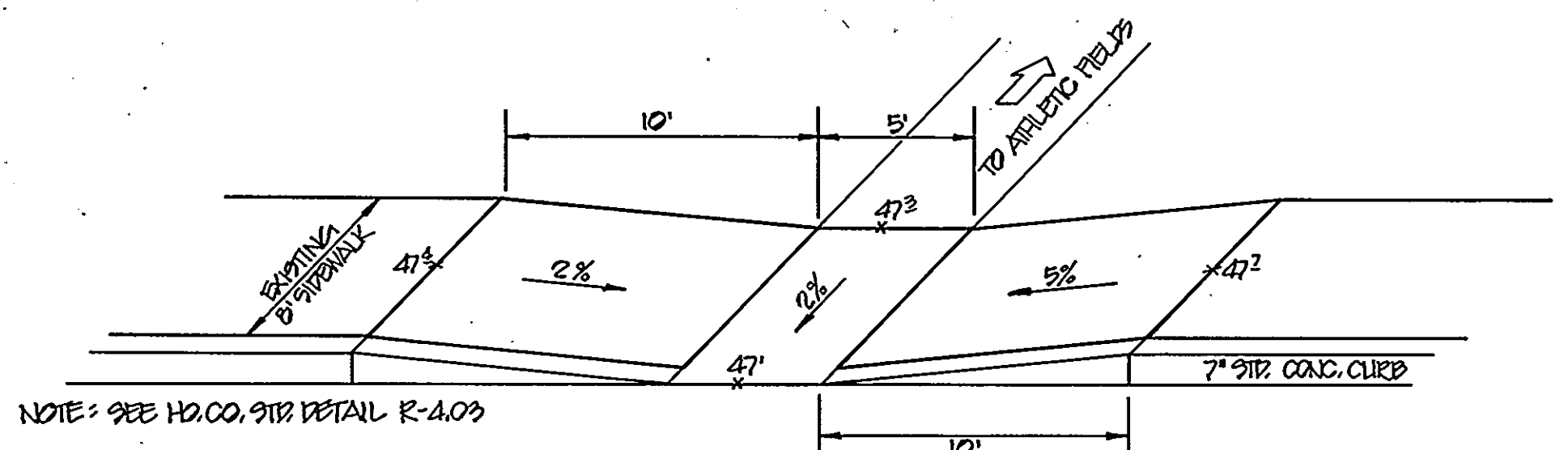








**HANDICAP ACCESSIBLE ROUTE DETAIL**  
NOT TO SCALE



**OWNER / DEVELOPER**  
BOARD OF EDUCATION OF HOWARD COUNTY  
10310 ROUTE 108  
ELlicott CITY, MARYLAND 21043

**PERMIT INFORMATION CHART**

Subdivision Name NORTHEASTERN M.S.	Section/Area ---	Lot/Parcel # 20
Plot # or L/F 279/448	Zone R-ED	Elect. Distr. 1st
Water Code D09	Sewer Code 2150548	Census Tract 6012
Scale AS SHOWN	Date 2/3/94	Additional to Approved SDP-01-27
		Plan Sheet Number

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING  
*Jessie S. Smith* 2/3/94  
DIRECTOR DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE, STORM DRAINAGE SYSTEMS AND ROADS  
*Uma J. Jovanovic* 2/7/94  
CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*James J. Lee* 1/24/94  
DIRECTOR DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Paul J. Spon* 1/21/94  
CHIEF, BUREAU OF ENGINEERING DATE

**APPROVED:** HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS FOR PUBLIC WATER & SEWERAGE SYSTEMS  
*Joyce M. Boyd-Welch* 2/3/94  
COUNTY HEALTH OFFICER DATE



Project	98010-00	Date	12/10/92
Illustration	MTZ	Engineering	MTZ
Scale	AS SHOWN	Approval	JWA

1	REVISION	DATE	DESCRIPTION
2	REVISION	DATE	DESCRIPTION

**NORTHEASTERN MIDDLE SCHOOL**  
ELECTION DISTRICT NO. 1  
HOWARD COUNTY, MARYLAND  
EXISTING CONDITIONS & DISABILITY ACCESS DETAILS

**MILDENBERG, MOCH & ASSOCIATES, INC.**  
ENGINEERS - ARCHITECTS - PLANNERS  
3300 North Ridge Road, Suite 235, Ellicott City, Maryland 21043-3350  
(410) 461-0078 D.C. Metro: (301) 621-5768 Fax: (410) 750-6340