

N. REZAL AND WIFE
464/1588
P. 42

Remove existing curb and paving as necessary to construct entrances

Existing island to be removed and reconstructed as shown. Remove Ex. Street Light and relocate as shown.

ROCKBURN BRANCH PARK
HOWARD COUNTY, MARYLAND
L 735 F 505
ZONE R-20

ROCKBURN BRANCH
PARK
HOWARD COUNTY, MARYLAND
L 735 F 505
ZONE R-20

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

Joselyn Bruns
COUNTY HEALTH OFFICER
DATE: 4-29-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

James P. Smith
DIRECTOR
DATE: 7/14/92

John J. Smith
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
DATE: 7/14/92

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

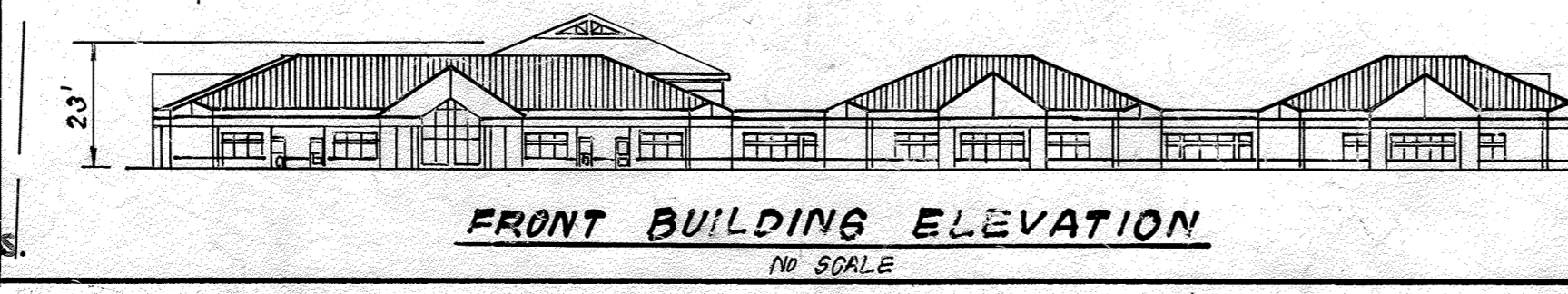
James P. Smith
DIRECTOR
DATE: 4-23-92

James P. Smith
CHIEF BUREAU OF ENGINEERING
DATE: 4-23-92

PLAN REVISION NOTE: ON OR ABOUT 11/21/94 CAPITAL PROJECT D-1078, TITLED ROCKBURN BRANCH PARK STREAM RESTORATION PROJECT, WAS CARRIED TO GRADE AND STABILIZE THE EXISTING STREAM BANKS ALONG A ROCKBURN BRANCH TRIBUTARY ILLUSTRATED WITHIN THE LIMITS OF THIS SITE PLAN. AN ALTERNATIVE COMPLIANCE WAS PROCESSED THROUGH THE DEPT. OF PLANNING AND ZONING UNDER WR-17-015 APPROVED ON 1/14/10 TO WAIVE SUBSECTION 10.15T(3)(d)(ii) OF THE SUBDIVISION AND LAND DEVELOPMENT AND LAND REGULATIONS SUBJECT TO SDC REGULATIONS AND CONDITIONS. SEE D-1078 FOR DETAILED CONDITIONS OF APPROVAL AND CURRENT SITE CONDITIONS.

ROBERT AMMESBURY
270/196
P. 329

CAROLYN DAYSON
1654/462



MARCELLA B. CUGLE
PLATS 1 AND 2
1531/677

WALTER MAYER
1531/677

MICHAEL FIEDEN
2009/24
7/18/2009

No.	Revision	Date
6	Add building addition, paved play area, sewer manhole & sewer	3-30-09
7	REPLACE GENERATOR AND SCREEN WALL	7-7-22

REVISION	DESCRIPTION	DATE
1	RELOCATION OF ROOF DRAINS FOR THE CLASSROOM ADDITION	1/21/09
2	ADD CAFETERIUM AND CLASSROOM ADDITIONS, 8" MACADAM WALK, 4" SEWER & REVERSE STORM DRAIN FOR M-27 TO I-27	7/17/03

No.	REVISION	DATE
3	Extended Sidewalk to Playcourt	4-24-92
2	Rev. alignment & grading of 6" Sewer	4-8-92
1	Rev. Service Yard Openings & Added Backstop Bench Areas	4-8-92

PARCEL NO.	STREET ADDRESS
"A"	6165 MONTGOMERY ROAD

SUBDIVISION NAME: PARCEL "A" SECT./AREA: NA Parcel No: 235
NORTHEASTERN ELEMENTARY SCH.
Plat No or L/F Block No: 31 Zone: R-20 Thru/Zone Mod. Etc. Dist. Plan No: 102660 1/87 6/11/01
Water Code: D-04 Sewer Code: 2153800

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

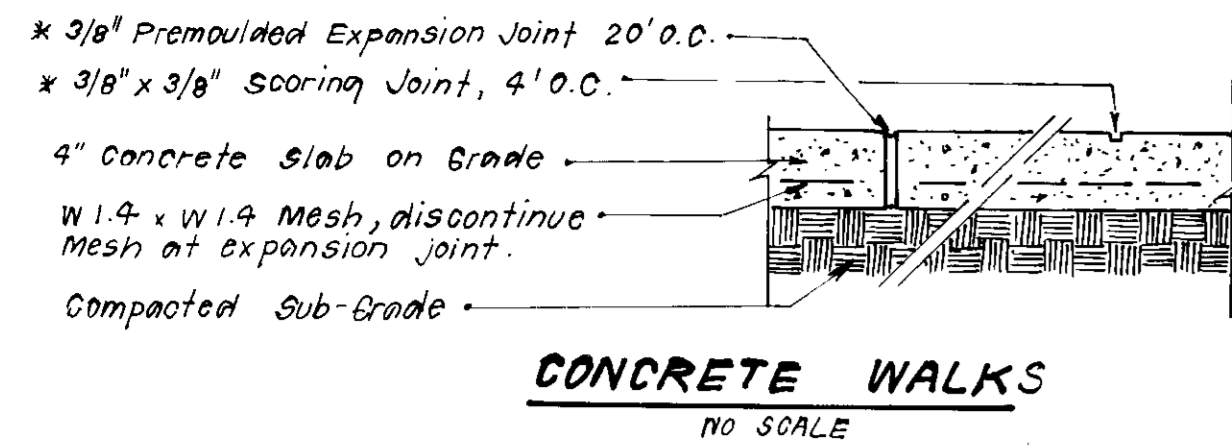
DESIGNED: MJP
DRAWN: BAL
CHECKED: WHT

SITE DEVELOPMENT PLAN
PARCEL A
NORTHEASTERN ELEMENTARY SCHOOL
ROCKBURN ELEMENTARY SCHOOL
TAX MAP NO. 31 PART OF PARCEL 235
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1"=40'
DRAWING: 1 OF 15
JOB NO.: 91-113
FILE NO.: 91-113 X

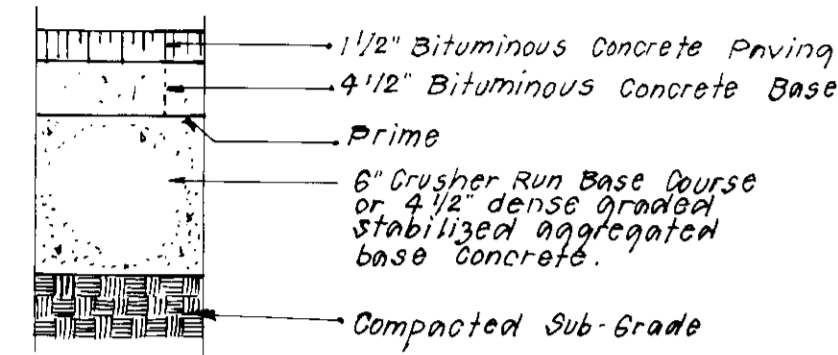
DATE: Feb 10, 92
FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

SDP- 92-58

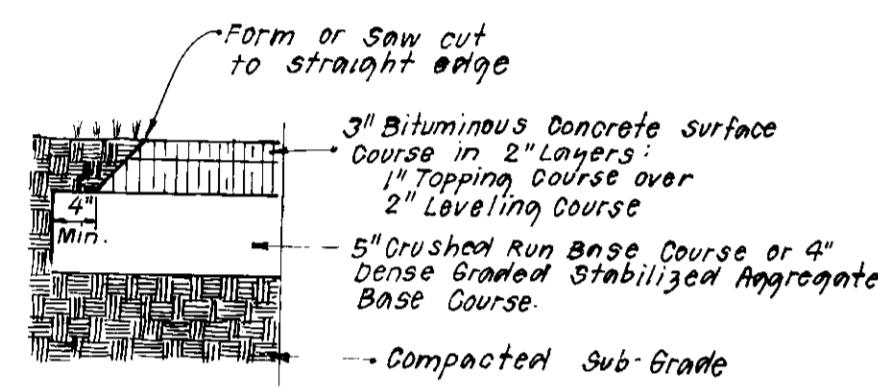


CONCRETE WALKS
NO SCALE

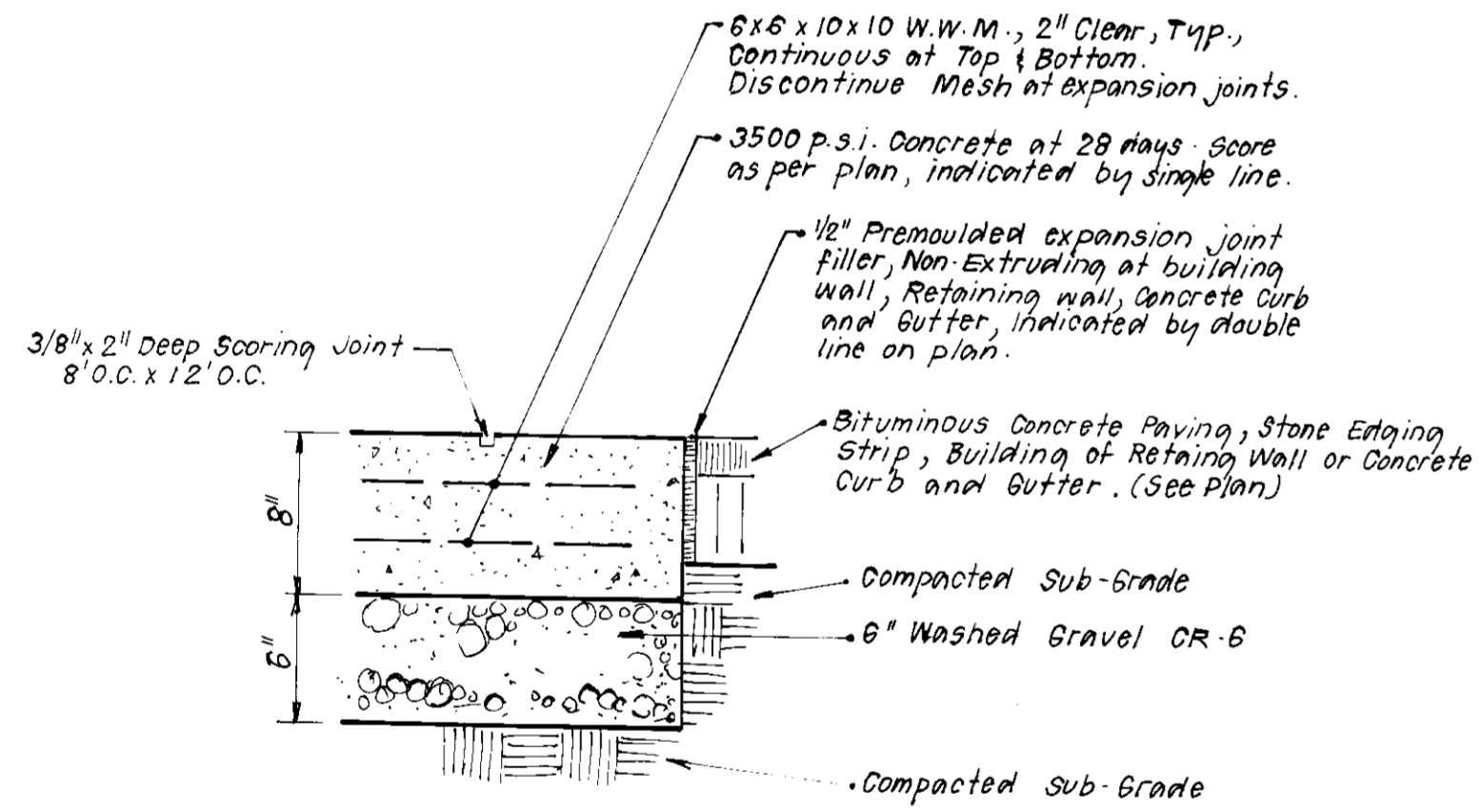
* NOTE: Use this expansion joint/scoring pattern unless otherwise shown on plans.



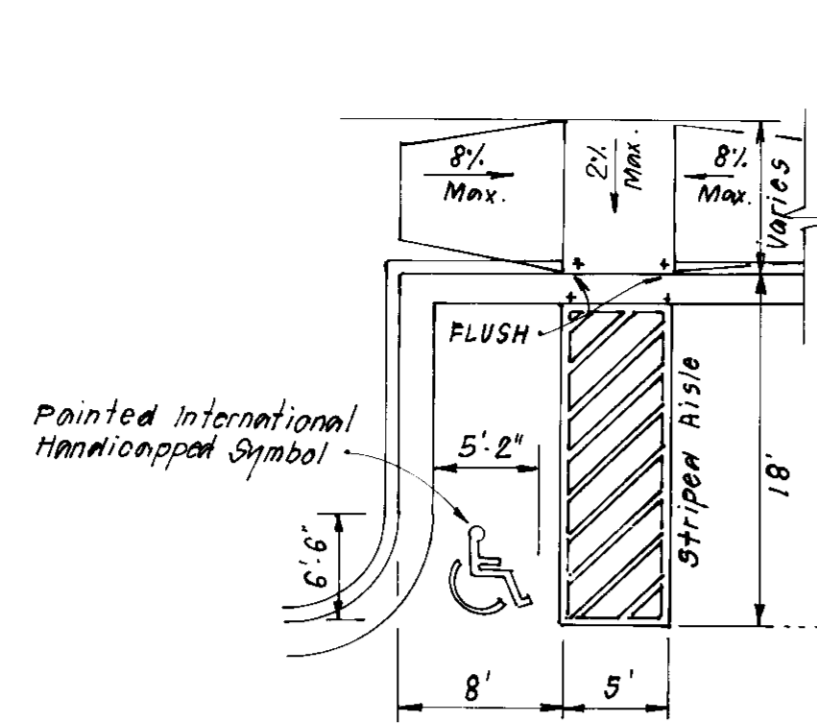
ASPHALT PAVING (P-1)
ENTRANCE DRIVES, PARKING, P-1 LOT



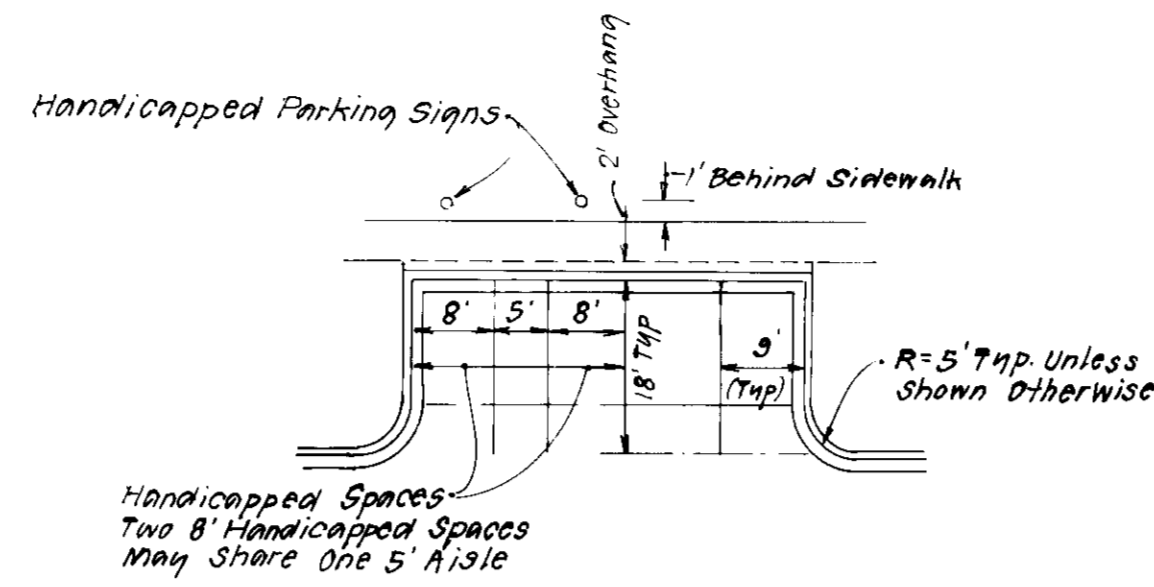
ASPHALT PAVING - WALKING PATHS, PLAY AREA (P-1)



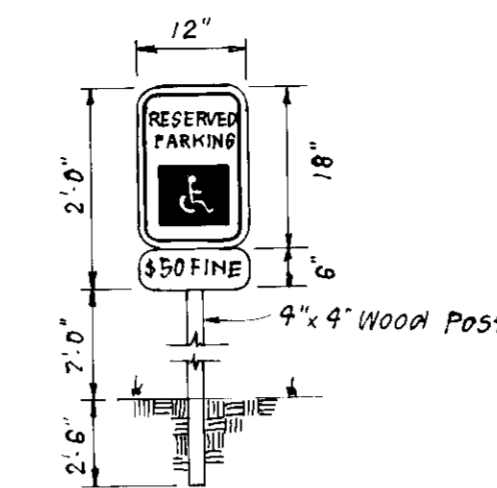
SERVICE YARD DRIVES
HEAVY DUTY CONCRETE PAVING
NO SCALE



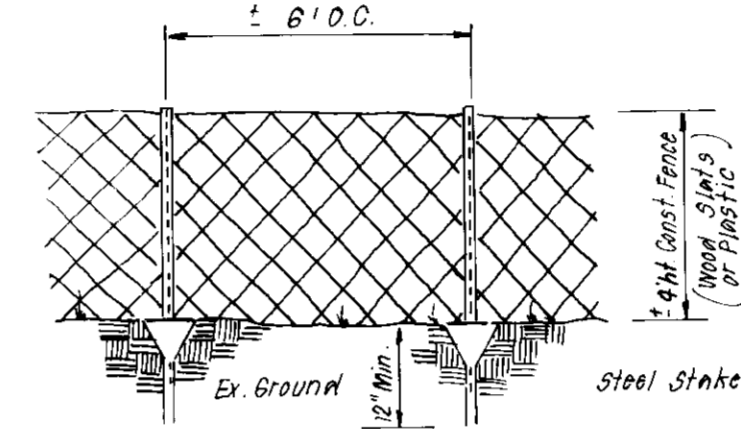
HANDICAPPED RAMP AND SPACE LAYOUT



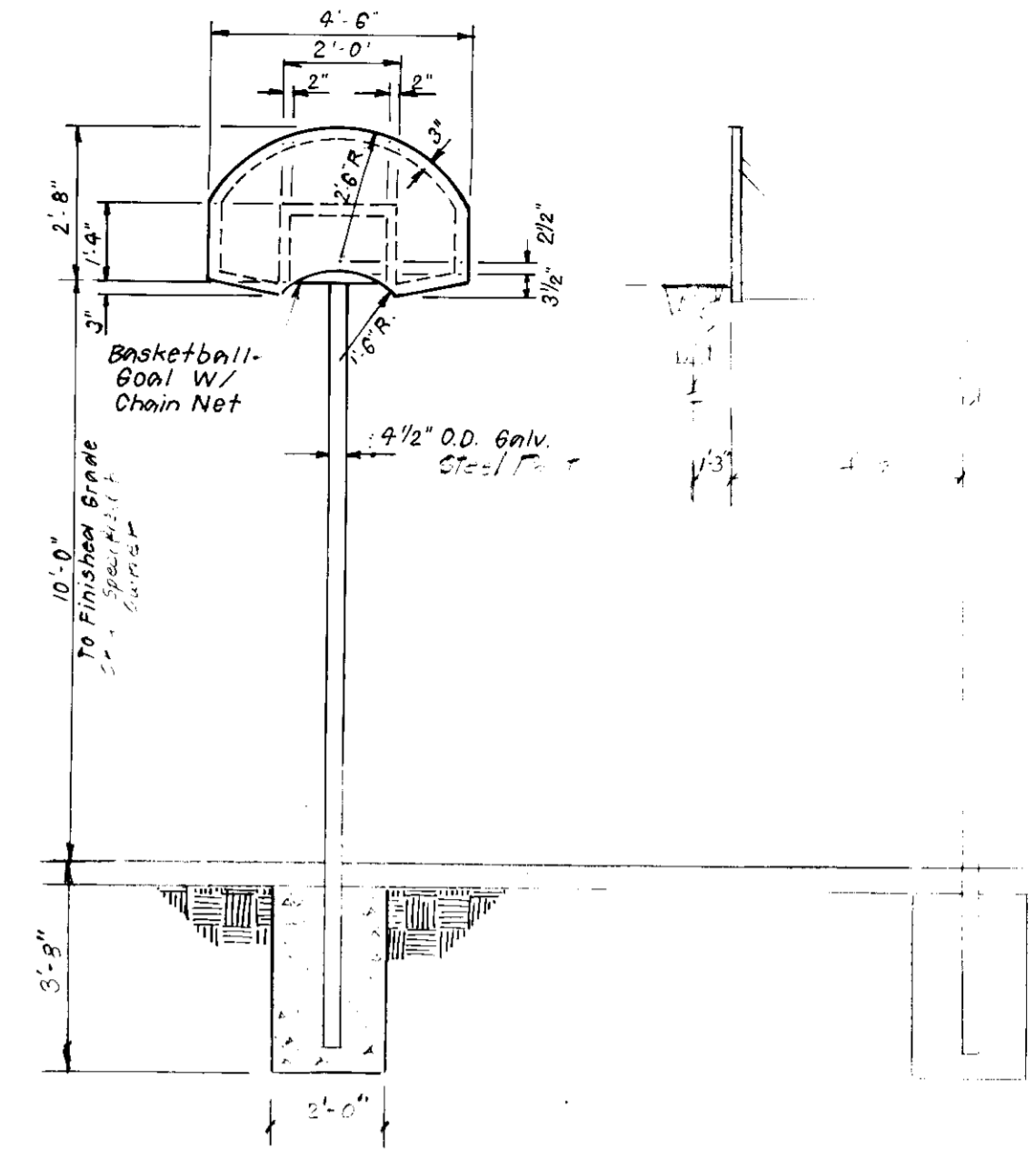
TYPICAL PARKING



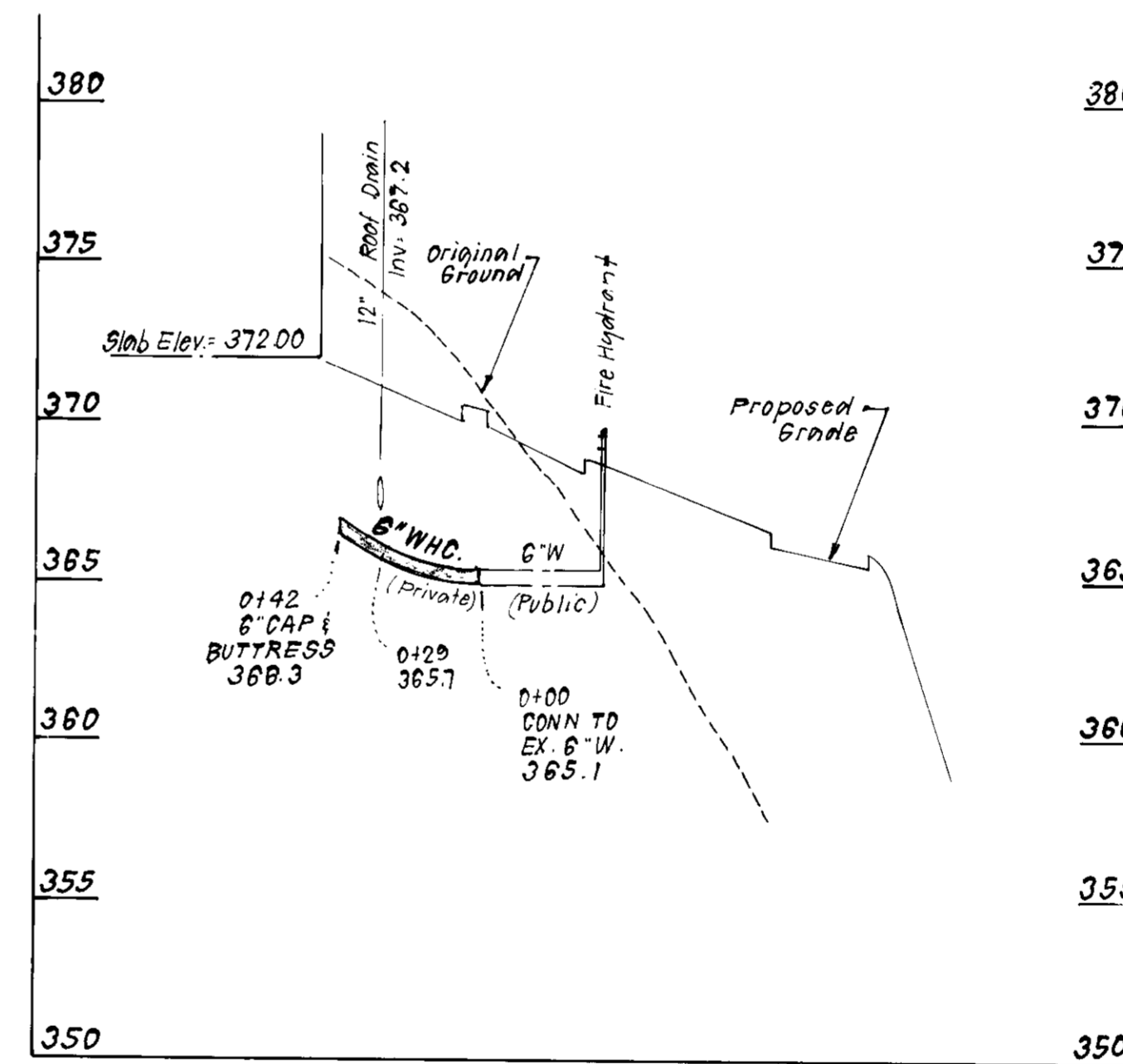
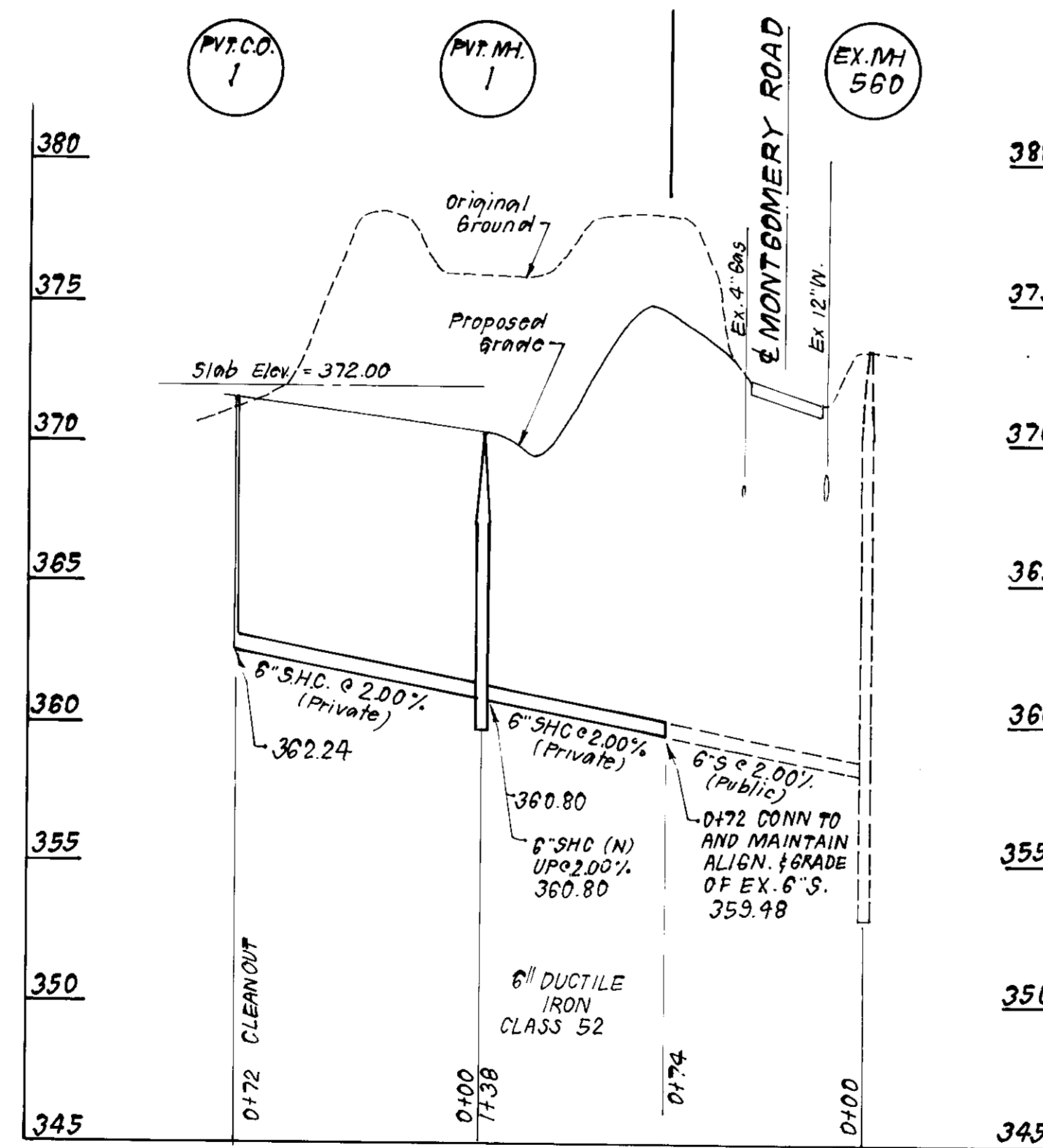
HANDICAPPED PARKING SIGN DETAIL
NO SCALE



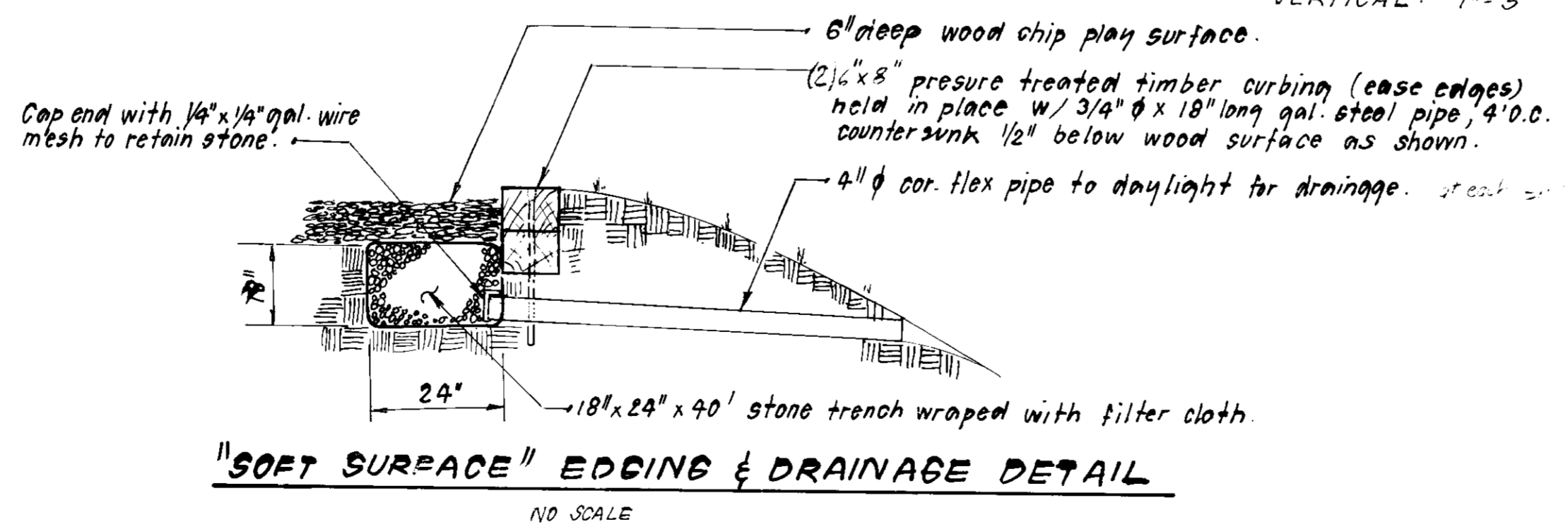
TYPICAL TREE PROTECTION FENCE DETAIL



FAN-SHAPED BASKETBALL BACKBOARD
NO SCALE



PROFILE SCALE: HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



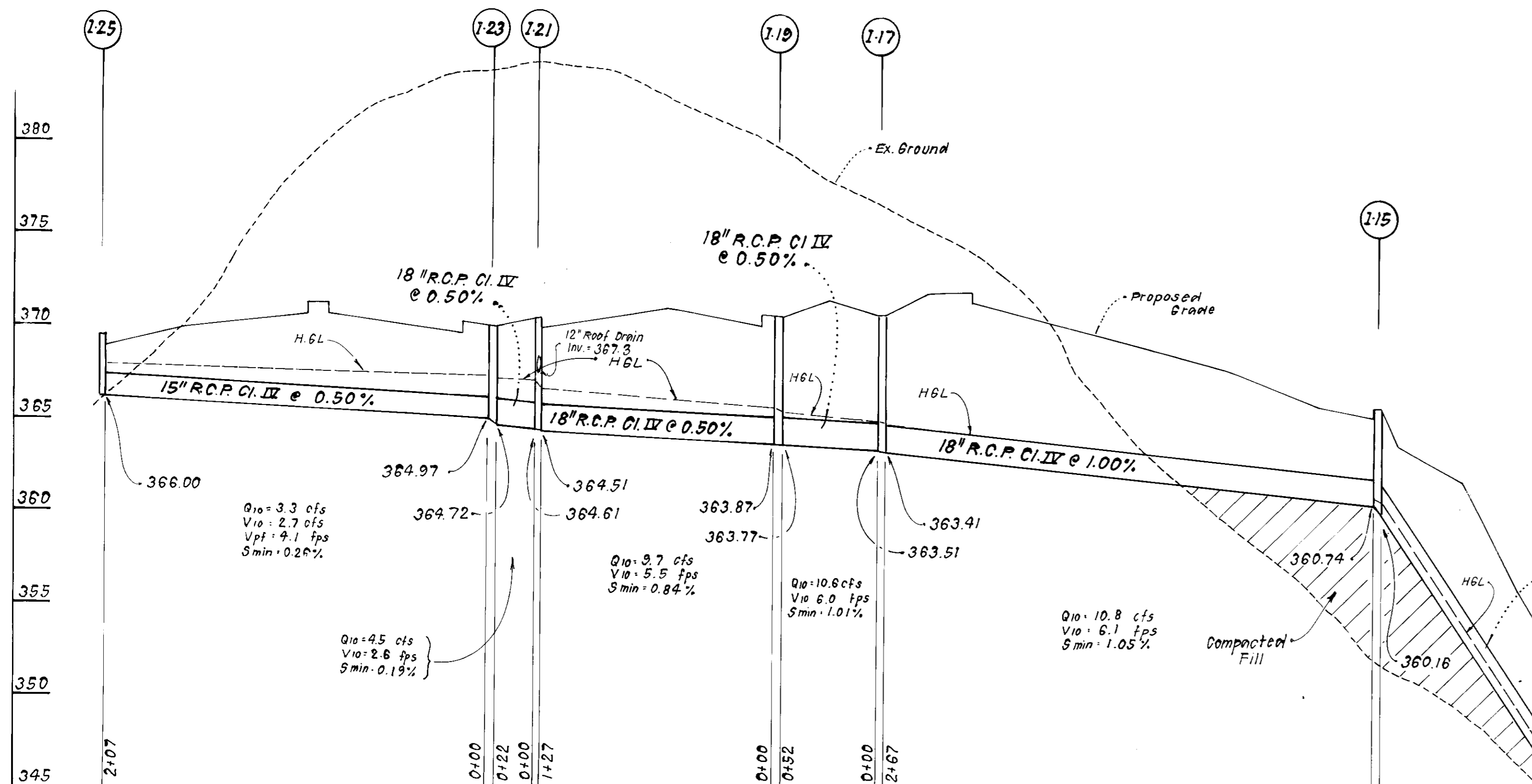
"SOFT SURFACE" EDGING & DRAINAGE DETAIL
NO SCALE

WATER AND SEWER NOTES:

- All construction methods and materials for on-site private water and sewer systems shall follow the current edition of the Howard County Plumbing Code, supplemented by the Howard County Standard Details and Specifications where necessary.
- Area where water house connection is being built shall be at final grade and connection shall be laid with a minimum of 3.5 feet of cover. Water house connection shall be 8-inch diameter, Ductile Iron, Class 52.
- 6-inch sewer house connection shall be built within 5 feet of building at a slope of 2.0% unless shown otherwise. 6-inch PVC pipe shall meet requirements of A.S.T.M. D3034, wall thickness classification SDR-35.
- Where sewer house connection is to be extended from public connection, the material shall be the same as the public sewer.

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
4-29-92
APPROVED HOWARD COUNTY DEPT. OF PLANNING & ZONING
7/14/92
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
4-23-92
CHIEF BUREAU OF ENGINEERING
4/22/92

1. Revise alignment and grade of 6" Sewer		4.8.92
2. REVISIONS		Date
CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS		
DESIGNED JTR	WATER AND SEWER PROFILES AND PAVING DETAILS	SCALE AS SHOWN
DRAWN JTR	NORTHEASTERN ELEMENTARY SCHOOL	DRAWING 3 OF 15
CHECKED	PART OF LIBER 735 FOLIO 505 TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 91-113
DATE Feb 10, 92	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043	FILE NO. 91-113-X

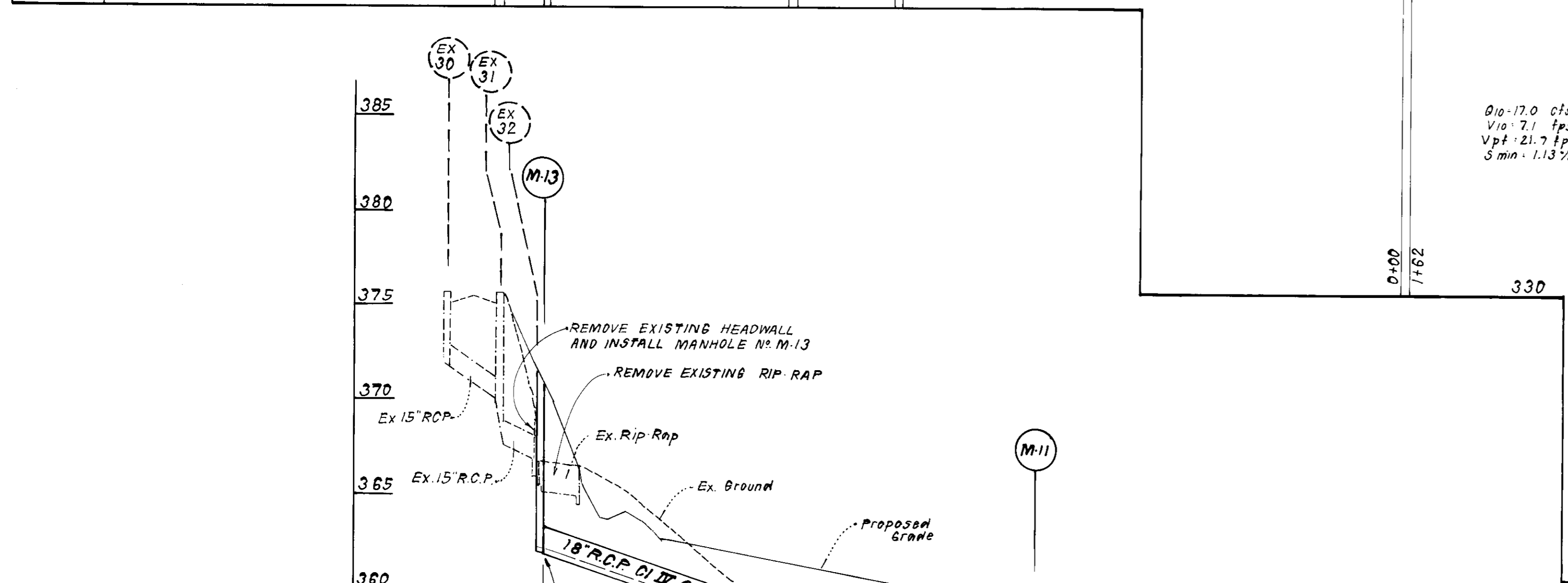


STRUCTURE SCHEDULE						
NO	TYPE	INV. IN	INV. OUT	TOP STRUCTURE	REMARKS	
S-1	Concrete End Section D-36"	331.47	331.40	---	Ho. Co. Std. Det. SD5.51	
I-2	SWM Concrete Structure	332.00	331.90	337.00	See Details Sheet 5	
S-3	Type C Endwall D-12"	332.00	332.00	333.75	Ho. Co. Std. Det. SD5.51	
S-6	Concrete End Section D-30"	331.30	331.00	---	" " " " SD5.51	
M-7	Brick Manhole 60" Rd	334.73/338.20	334.33	Top 341.50 / Slot 339.0	" " " " 6-5.01	
I-9	Shallow Manhole	335.75/336.00	335.40	339.30	" " " " SD5.05	
M-11	Brick Manhole 48" Rd	353.20	350.80	358.27	" " " " 6-5.01	
M-13	Brick Manhole 48" Rd	**	361.80	371.20	" " " " 6-5.01	
I-15	Type A-10 Inlet	360.74	360.10	366.00	" " " " SD4.02	
I-17	Type A-5 Inlet	363.51	363.41	370.80	" " " " SD4.22	
I-19	Type A-5 Inlet	363.87	363.77	370.70	" " " " SD4.01	
I-21	Type A-5 Inlet	364.61	364.51	370.60	" " " " SD4.01	
I-23	Type A-5 Inlet	364.97	364.72	370.17	370.10	" " " " SD4.01
I-25	Type A-5 Inlet	---	366.00	369.71	369.70	" " " " SD4.01
M-27	Shallow Brick Manhole	358.40	358.15	361.40	" " " " SD5.05	
I-29	Type D Inlet W-2.6'	360.50	360.00	Top 363.83 / Slot 363.00	" " " " SD4.38	

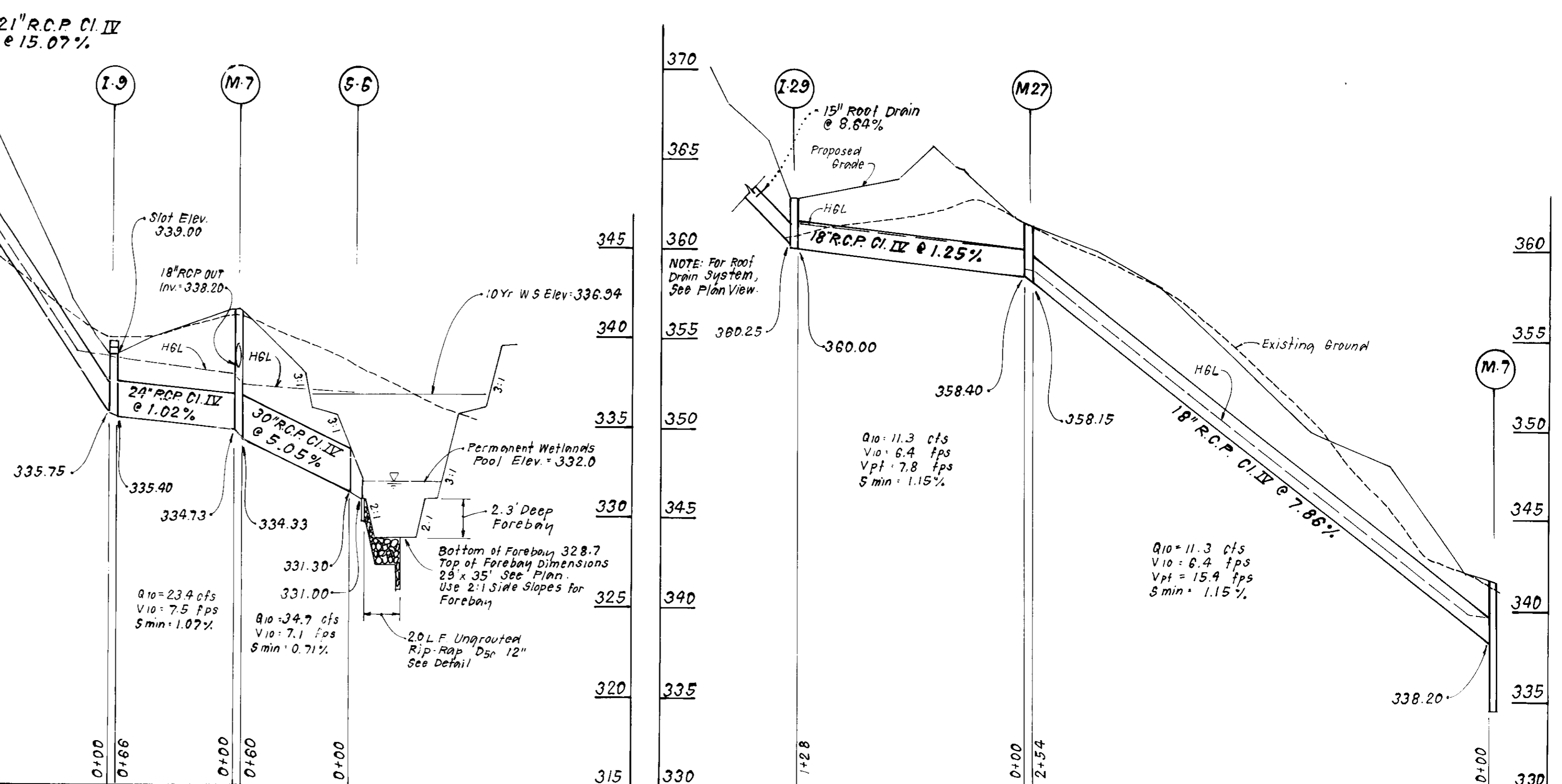
PIPE SCHEDULE		
SIZE	TYPE	LENGTH
18"	PVC	860'
15"	PVC	282'
18"	RCP CLASS IV	207'
21"	RCP CLASS IV	1,188'
24"	RCP CLASS IV	162'
30"	RCP CLASS IV	60'
36"	RCP ASTM C-361	51'

* CLASS B-25

* Increase "H" by 1'-0"
 ** Connect to Invert of Existing 15" RCP
 Δ For Fully Developed Inverts
 + May Substitute with Equivalent Precast Structures (Ho. Co. Std. Details)
 # With 2 slots located on the NW and SW sides and Ho. Co. Standard sidewalk frame and cover.



PROFILE SCALE: HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 5-6-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: [Signature] DATE: 7/14/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 3-2-92

CHIEF BUREAU OF ENGINEERING
 [Signature] DATE: 5-6-92

Reviewed for HOWARD S.C.D. Name: [Signature]
 and meets the requirements of the US Soil Conservation Service
 Signature: [Signature] Date: [Date]

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature: [Signature] Date: 11-15-91



DEVELOPER'S/BUILDER'S CERTIFICATE
 "I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
 Signature: [Signature] Date: 11-14-91

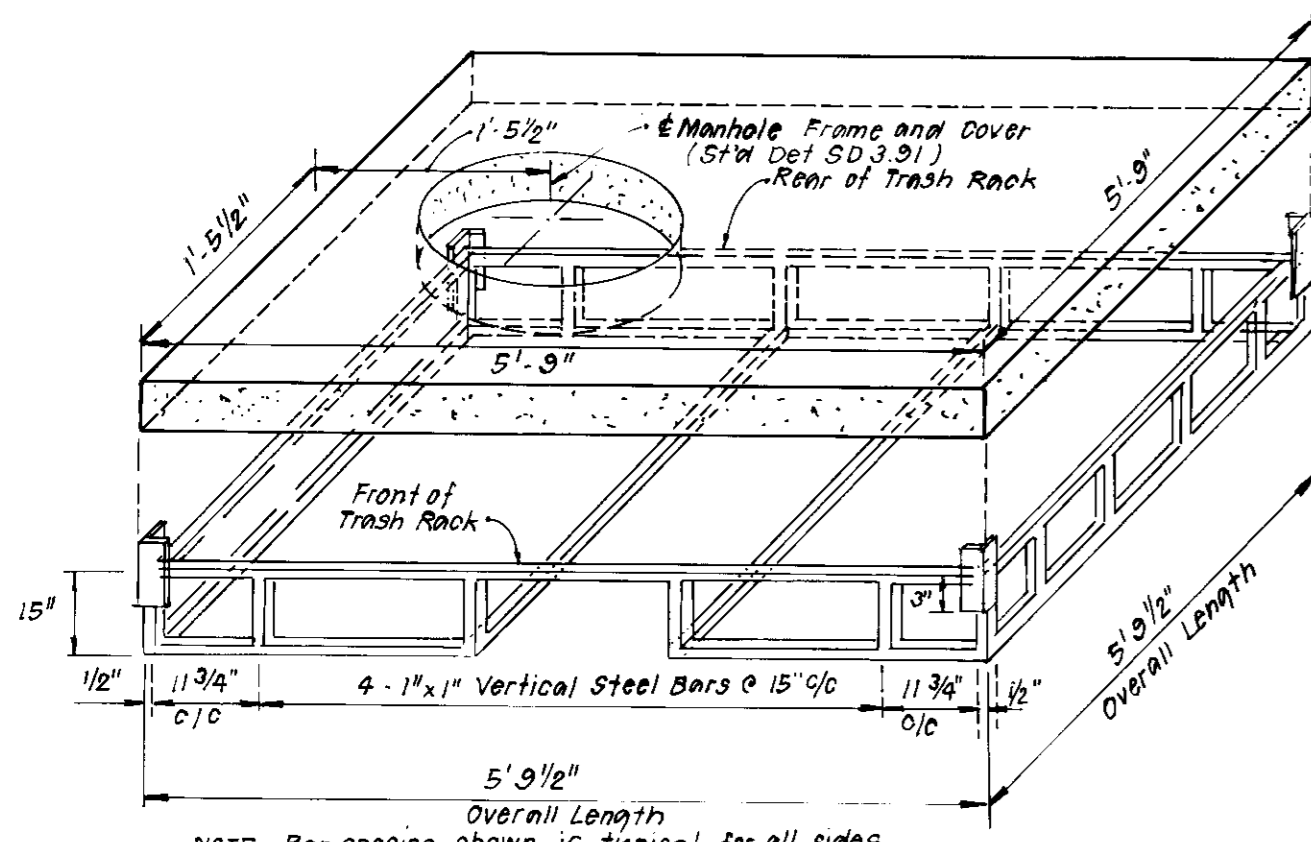
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: DVH
 DRAWING: JTR
 CHECKED: DMW
 DATE: Feb 10, 92

STORM DRAINAGE PROFILES
 PARCEL A
 NORTHEASTERN ELEMENTARY SCHOOL
 PART OF LIBER 735 FOLIO 505
 TAX MAP NO. 31 PART OF PARCEL 235
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN
 DRAWING: 4 OF 15
 JOB NO.: 91-113
 FILE NO.: 91-113-X

FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

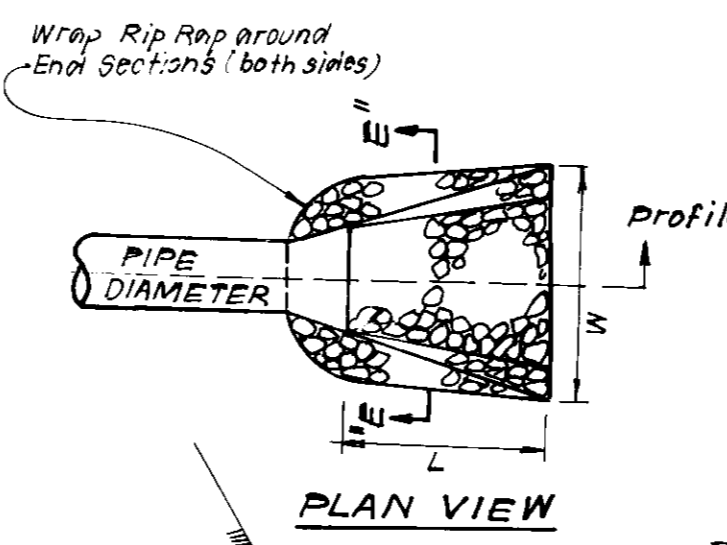


TRASH RACK DETAIL

STR. NO. I-2
NO SCALE

TRASH RACK NOTES

- All steel shall be 1/2" x 1/2" butt welded to form trash rack.
- After fabrication, trash rack shall be galvanized.
- Lift rings shall be provided at each corner of 4" top slab.
- Leave out horizontal bar only on front of trash rack as shown, so as not to interfere with flow of water through slot in concrete structure below. Also, place additional bars front to rear of trash rack as shown.

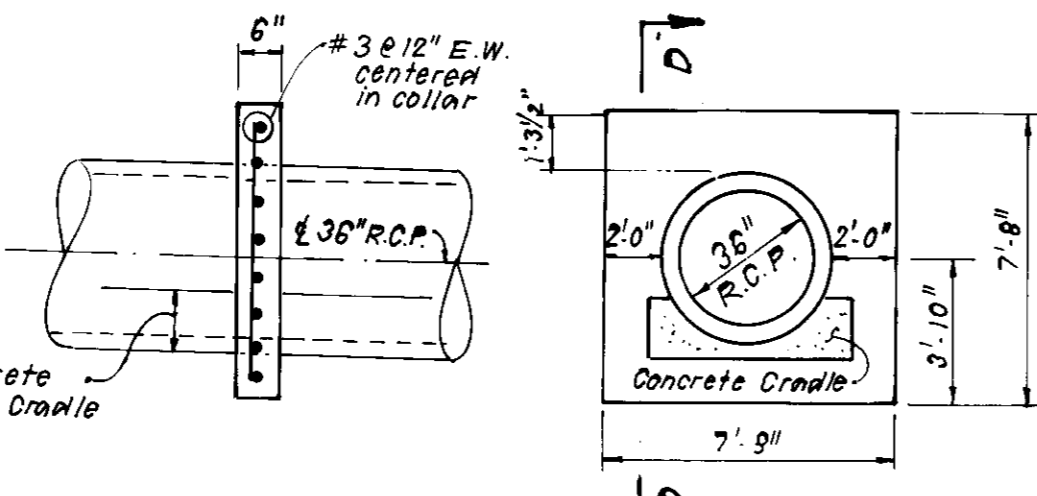


UNGRADED RIP-RAP DETAIL

OUTFALL STRUCTURES S-1 & S-6
NO SCALE

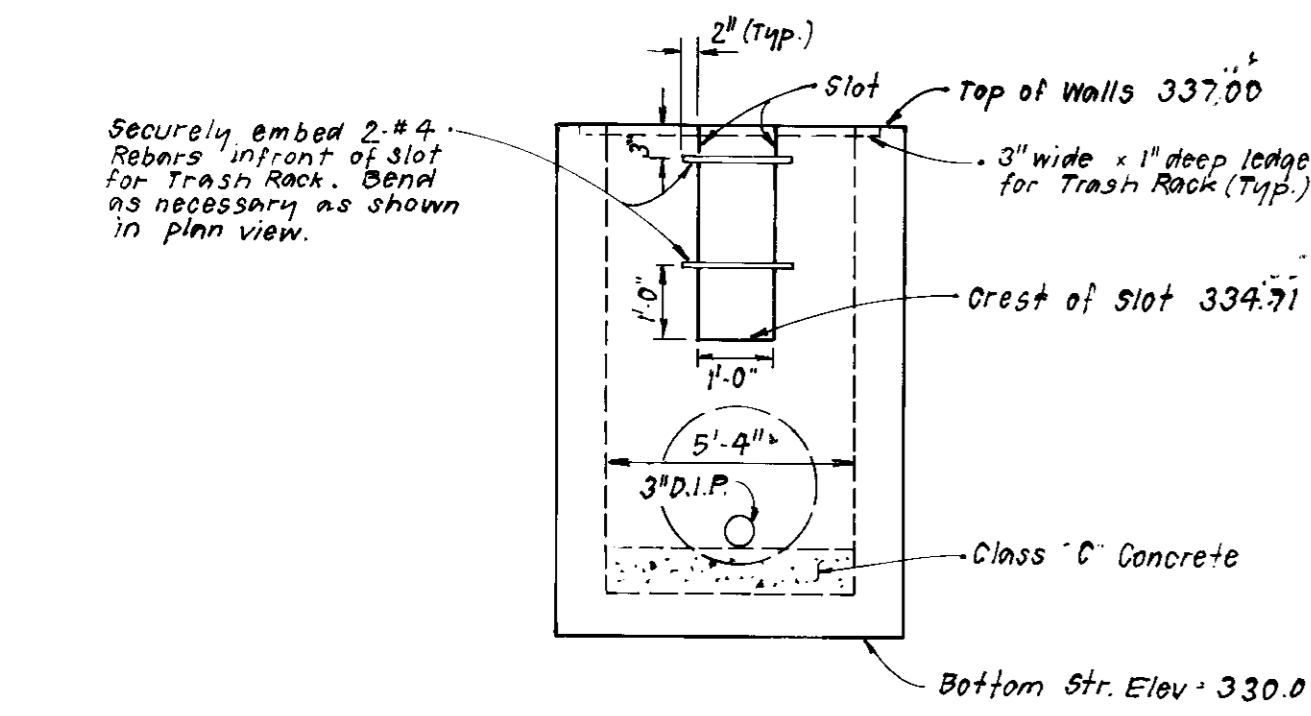
ANTI-SEEP COLLAR NOTES

- Fc = 3,000 psi.
- Pour collar with pipe in place.
- Edges do not have to be chamfered.
- Backfill evenly on both sides of collars.
- Locate collar a min. of 2' from joints.



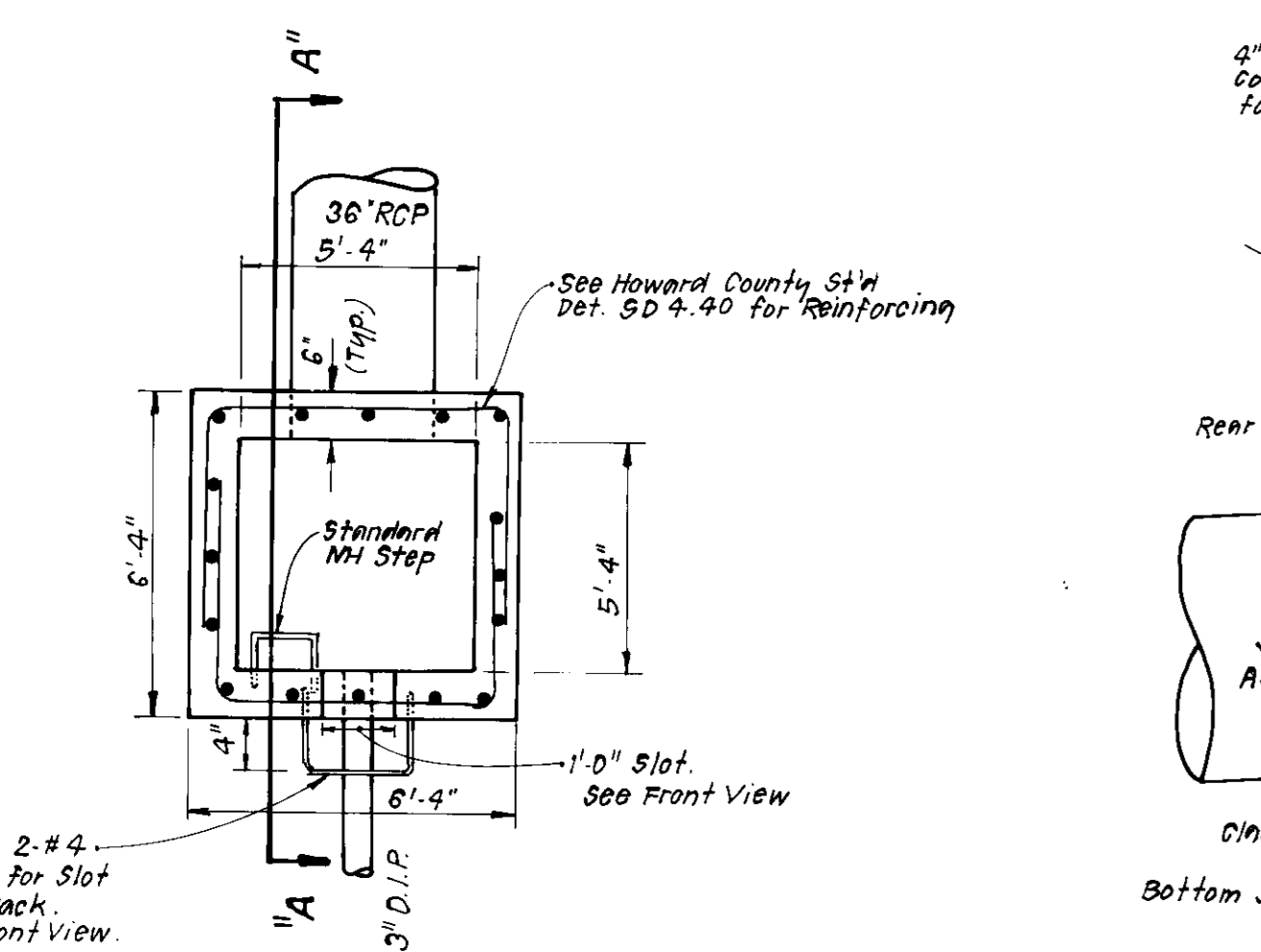
SECTION D-D ELEVATION

ANTI-SEEP COLLAR DETAIL
NO SCALE



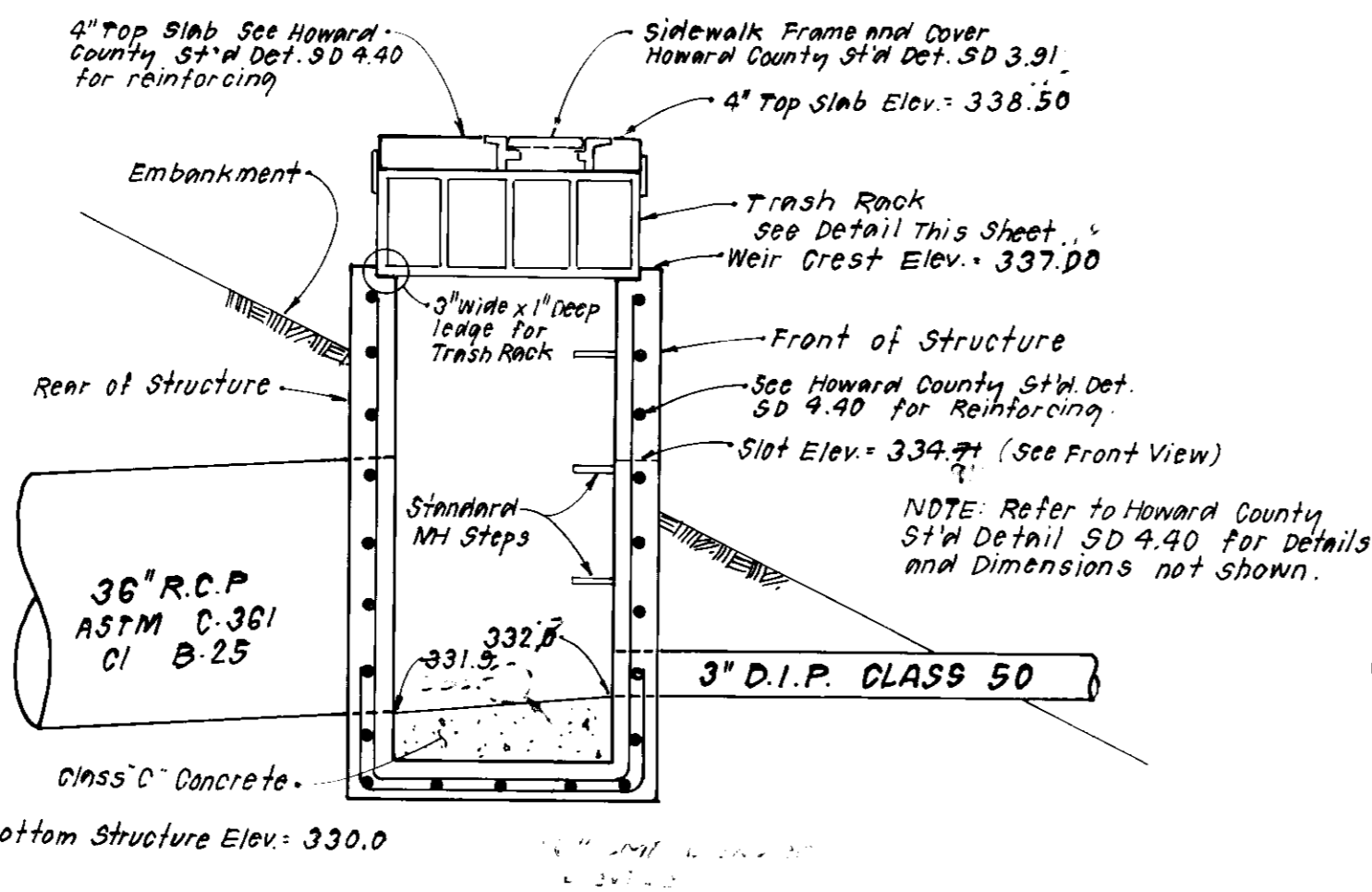
FRONT VIEW

(WITHOUT TRASH RACK TOP SLAB)



PLAN VIEW

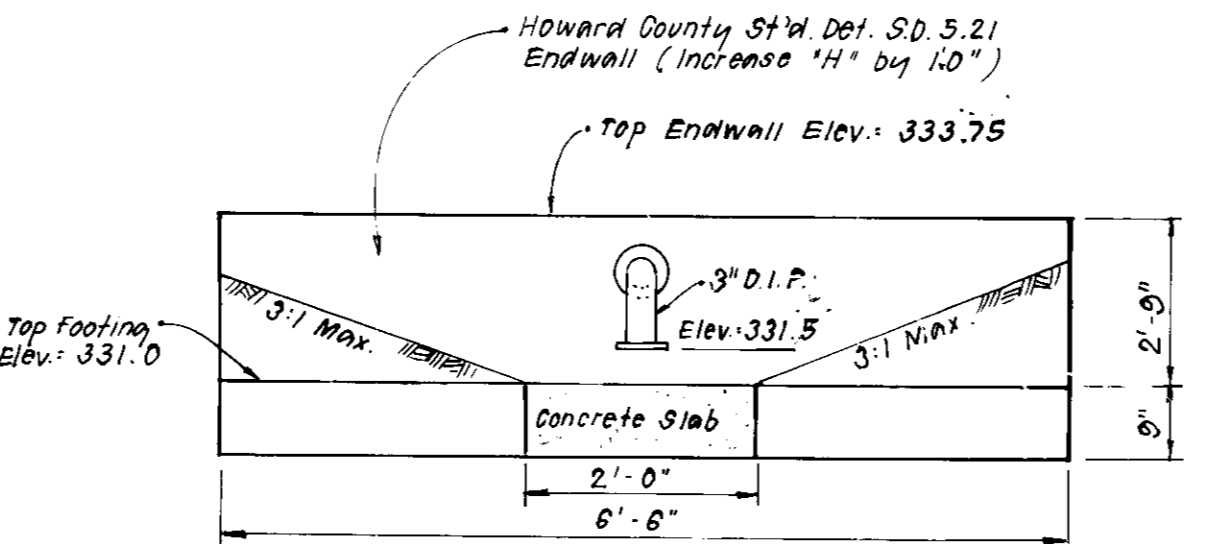
(BELOW TRASH RACK AND TOP SLAB)



SECTION A-A

STRUCTURE NO. I-2 DETAILS

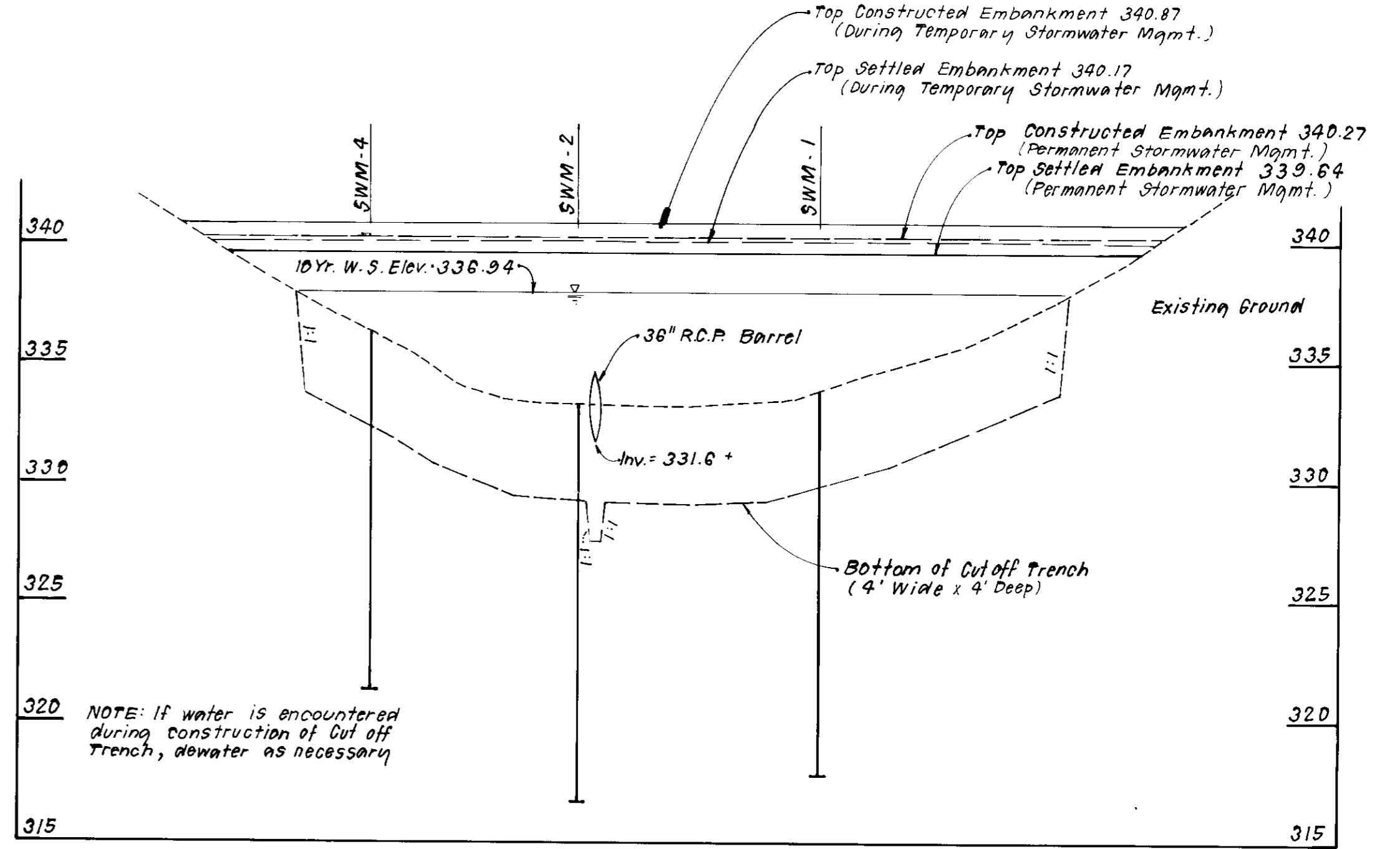
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SECTION C-C

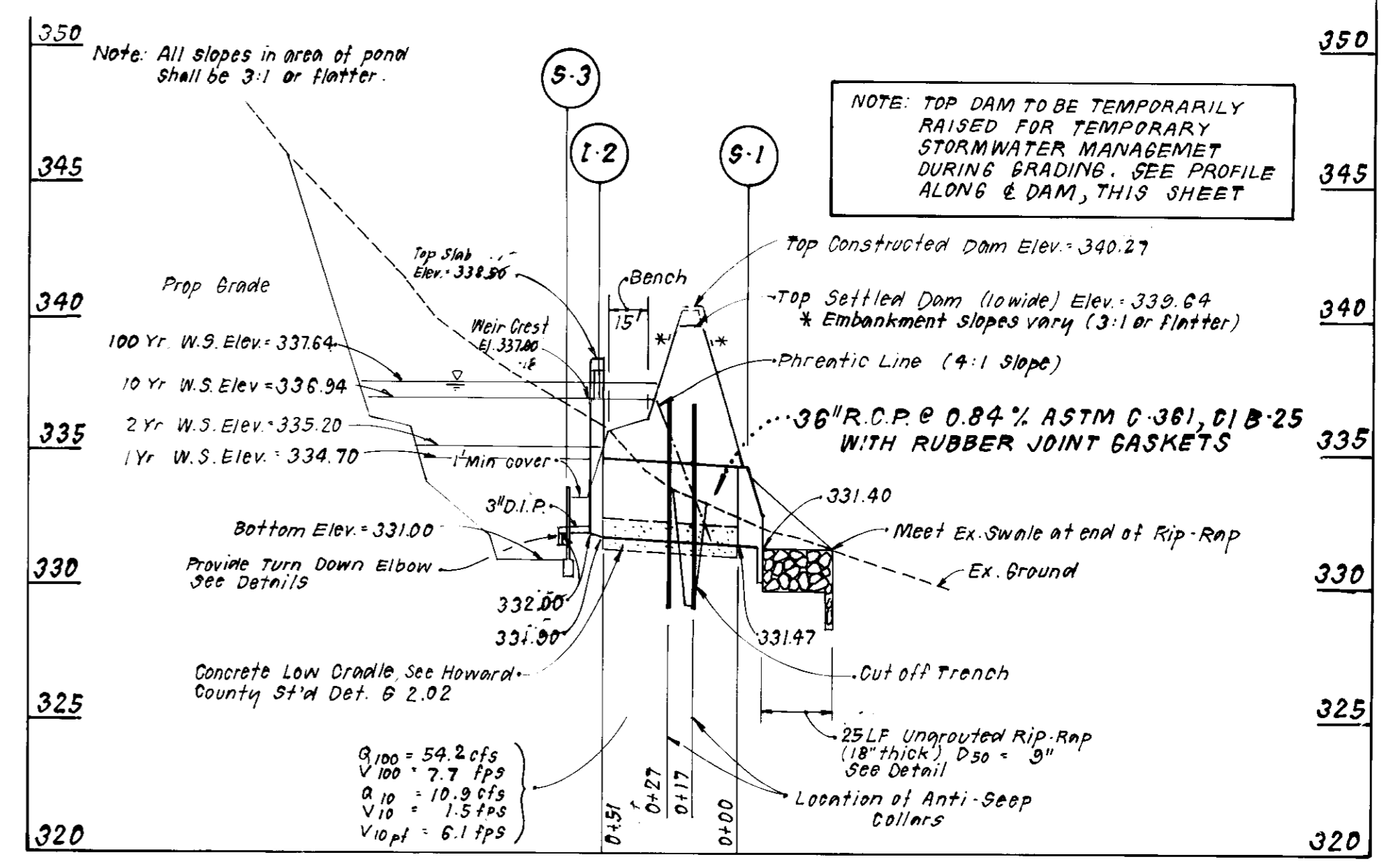
STRUCTURE NO. S-3 DETAILS

NO SCALE



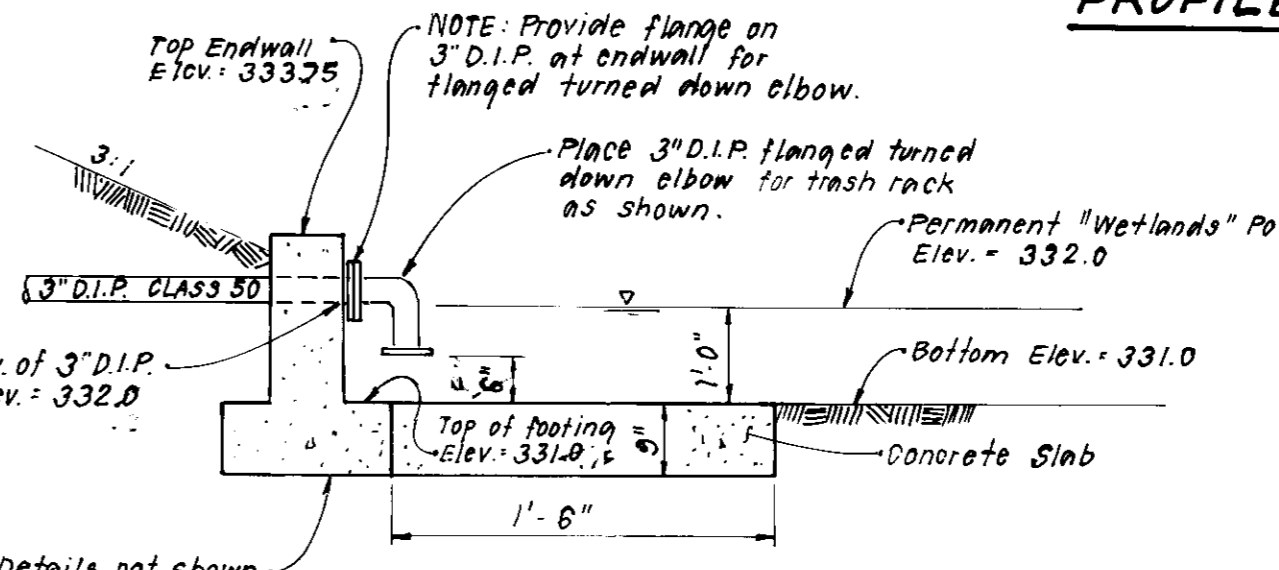
PROFILE ALONG E DAM-STORMWATER MANAGEMENT POND

SCALE: HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



PROFILE - STORMWATER MANAGEMENT POND

SCALE: HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



SECTION B-B

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 3-6-92
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: [Signature] DATE: 2/19/92
 CHIEF DIVISION OF COMMUNITY PLANNING, DATE: 7/14/92
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 3-2-92
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 2-22-92

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

Approved: [Signature] 2/25/92
 U.S. Soil Conservation Service Date

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

Approved: [Signature] 2/25/92
 Howard S.C.D. Date

ENGINEER'S CERTIFICATE

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

[Signature] 11-15-91
 Signature of Engineer Date

DEVELOPER'S CERTIFICATION
 "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 Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with 'As Built' plan of the pond within 30 days of completion. I will also authorize periodic on-site inspections by the Howard Soil Conservation District."

Cathleen Conley Young 11/14/91
 Signature of Developer Date

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED RJS	SCALE AS SHOWN
DRAWN JTR	DRAWING 5 OF 15
CHECKED RJS	JOB NO. 91-113
DATE Feb 10, 92	FILE NO. 91-113-X

CONSTRUCTION SPECIFICATIONS FOR S.W.M. PONDS

Specifications

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

Site Preparation

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

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

Materials: The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" frozen or other objectionable materials. Fill material for the center of the embankment and cut-off trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

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.

Compaction: The movement of the heating 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 track track of the equipment or compaction shall be achieved by a minimum of four

complete passes of a sheepsfoot, rubber tread 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.

Where a minimum required density is specified, it shall not be less than 96% of maximum dry density with a moisture content within $\pm 2\%$ of the optimum. Each lift of fill shall be compacted as necessary to obtain that density, and it to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut-Off 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 four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structures Backfill

Backfill adjacent to pipes 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 four inches in thickness and compacted by hand tampers or other manually operated compaction equipment. The material needs to be completely as spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four 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" or greater over the structure or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Compacted Metal Pipe: All of the following criteria shall apply for compacted metal pipe.

- Materials (Steel Pipe) - The pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190. The pipe shall be connected with 24" long annular coupling bands.

bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. Steel pipes with polymeric coatings shall have a minimum coating thickness of 0.01 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Nealon, Plast-Coat, Baco-Dac, and Baco-Coulay. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials (Aluminum Coated Steel Pipe) - The pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-190 with weight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be painted with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The gap of the surrounding sole shall be between 4 and 9.

- Coupling bands, anti-seep collars, and sections, etc., must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.
- Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the rear shall be welded all around when the pipe and rear are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Drainage bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be re-rolled an adequate number of convolutions to accommodate the band width. The following type connections are acceptable for pipes less than 48" in diameter: flanges on both ends of the pipe, a 12" wide standard lap type band with 12" wide by 3/8" thick closed cell circular neoprene gasket, and a 12" wide huggar type band with 0-ring gaskets having a minimum diameter of 1/2" greater than the connection depth. Pipes 48" in diameter and larger shall be connected by a 24" long annular corrugated band using rods and lugs. A 12" wide by 3/8" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24".

Helically Corrugated Pipe shall have either continuously welded seams or have cold seams.

- 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.
- Backfilling shall conform to "Structures Backfill".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 608, Mix No. 3.

Rock Riprap

All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

- Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed to the required thickness in one operation. The rocks shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Fine cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 819.12.

Polystyrene Chloride (PVC) Pipe All of the following criteria shall apply for polystyrene chloride (PVC) pipe.

- Materials - PVC pipe shall be PVC 1120 or PVC 1220 conforming to ASTM D-1785 or ASTM D 2241.
- Joints and connections to anti-seep collars shall be completely watertight.

Care of Water during Construction

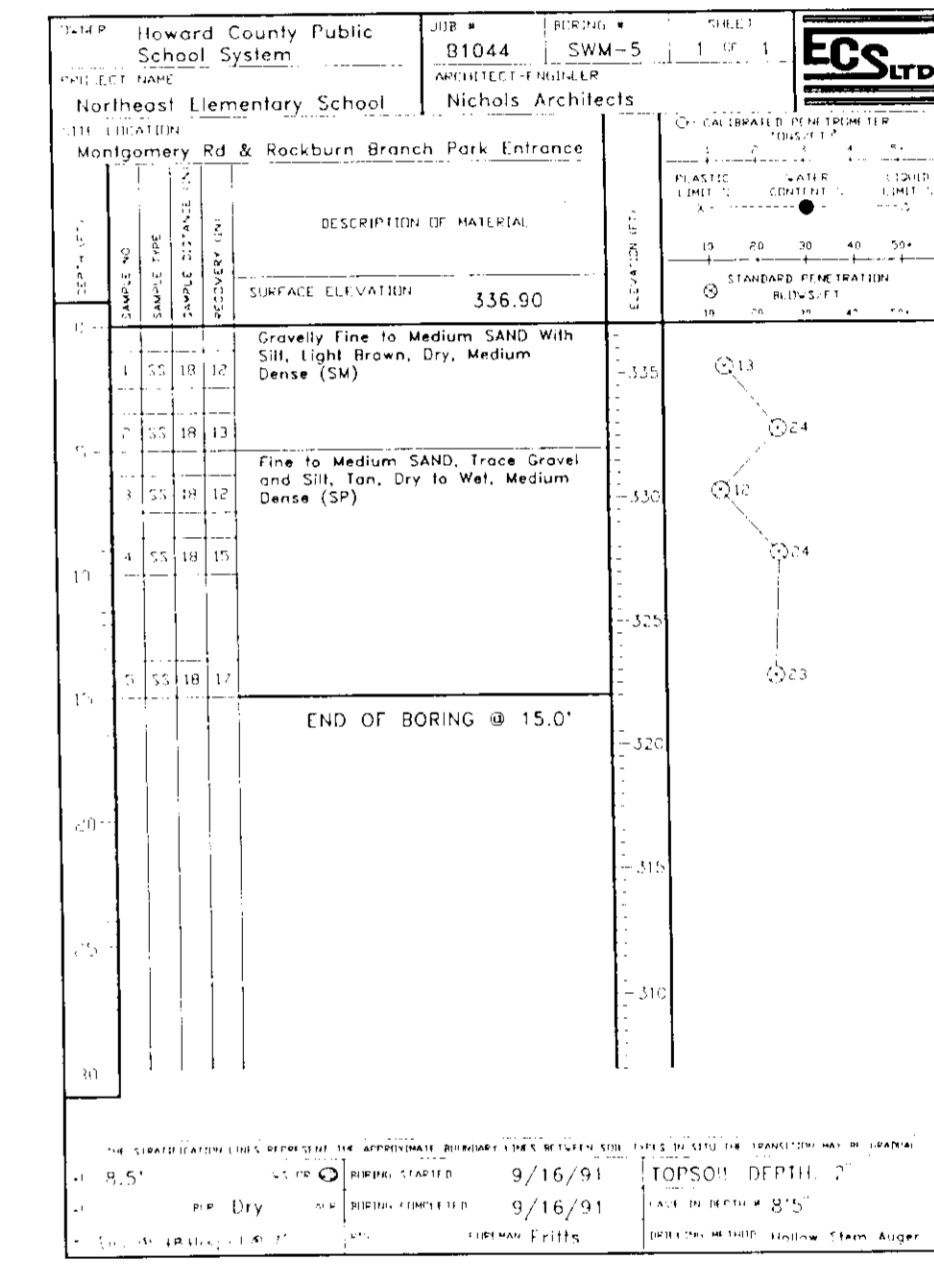
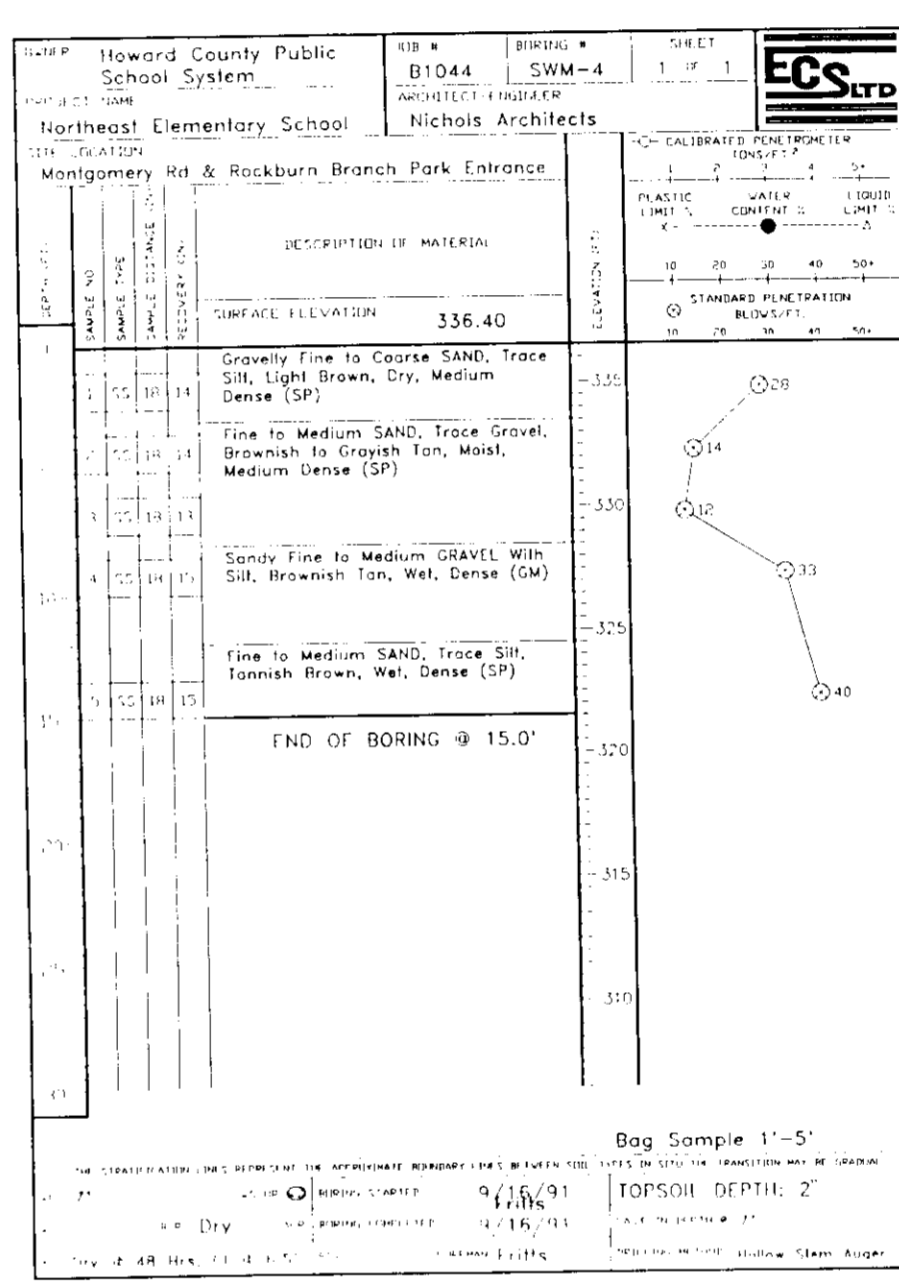
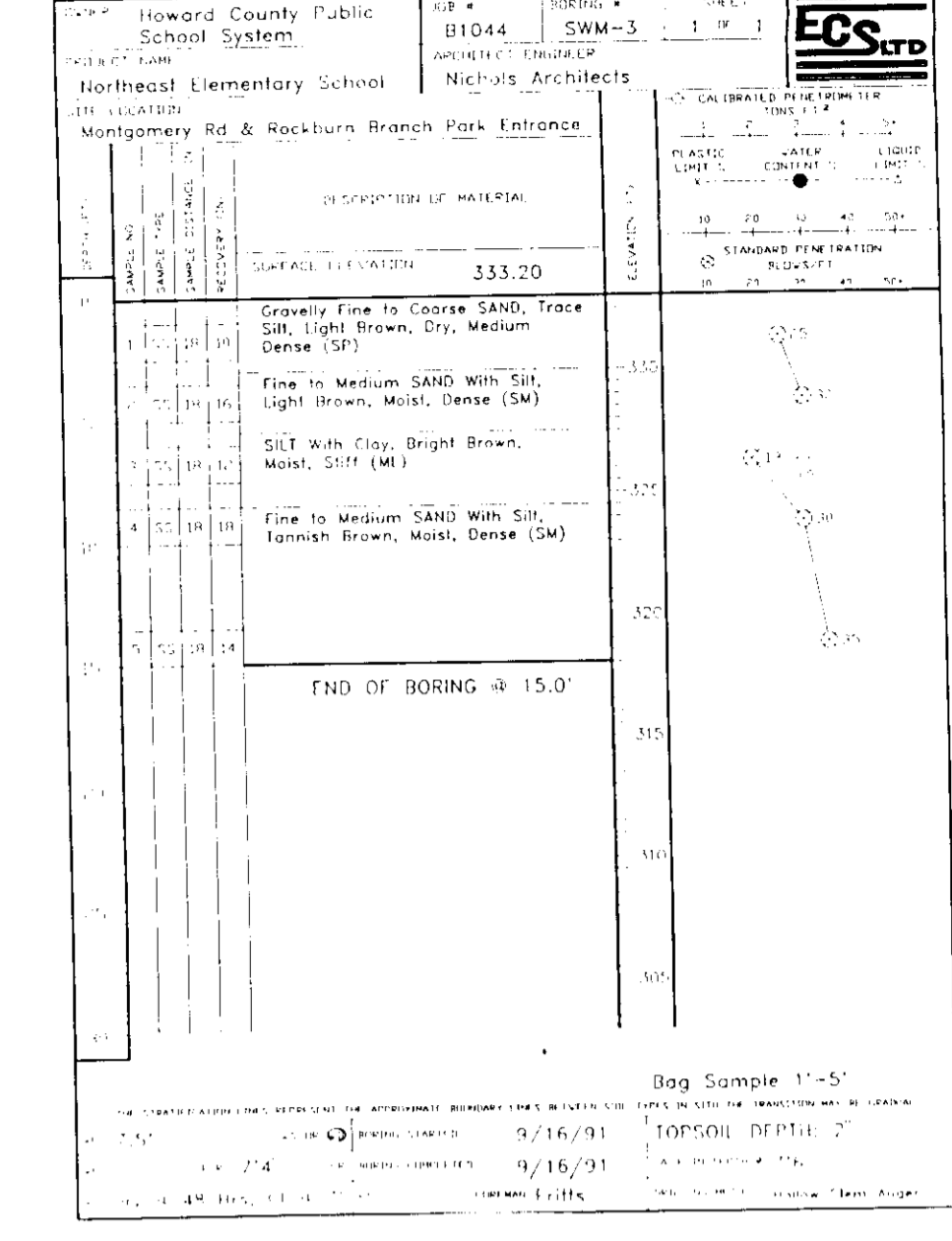
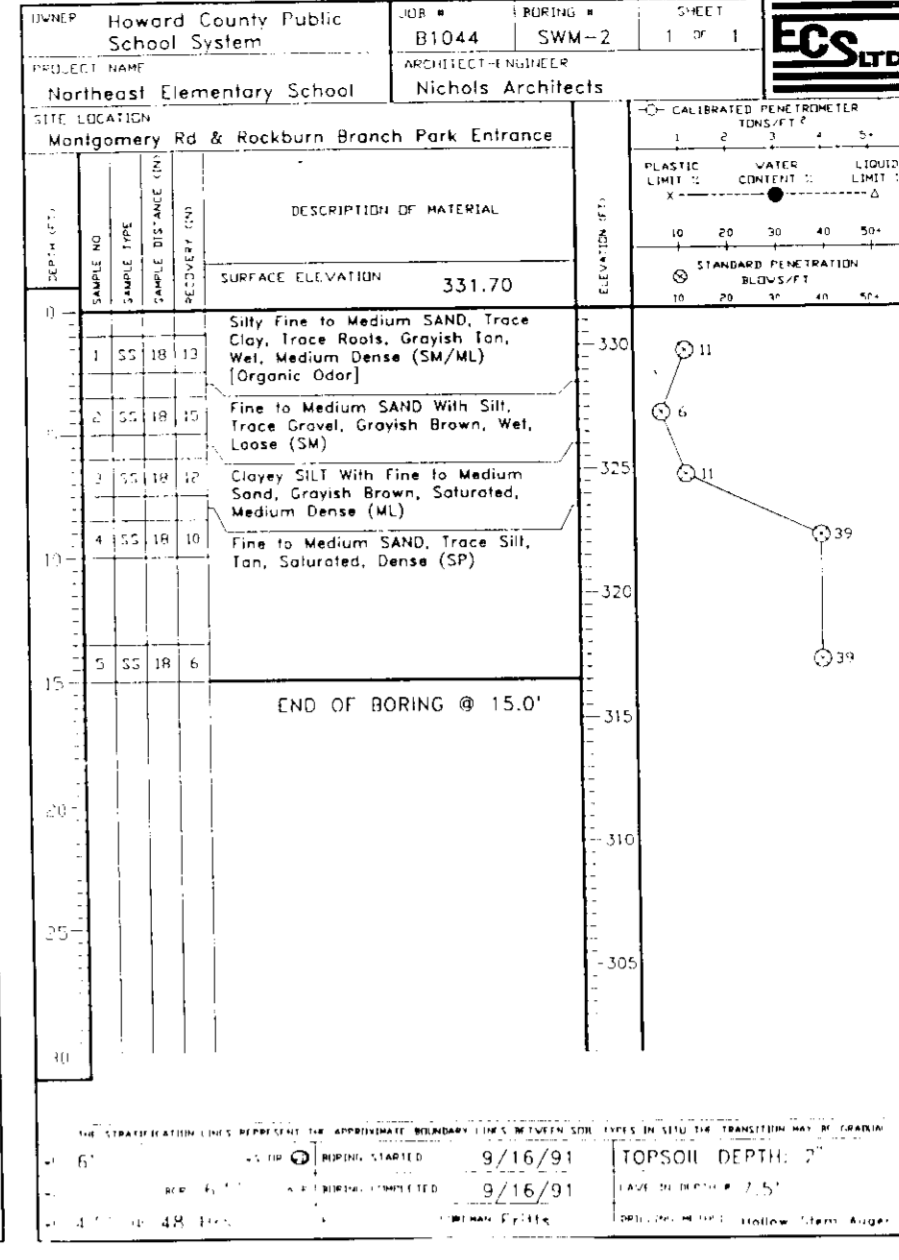
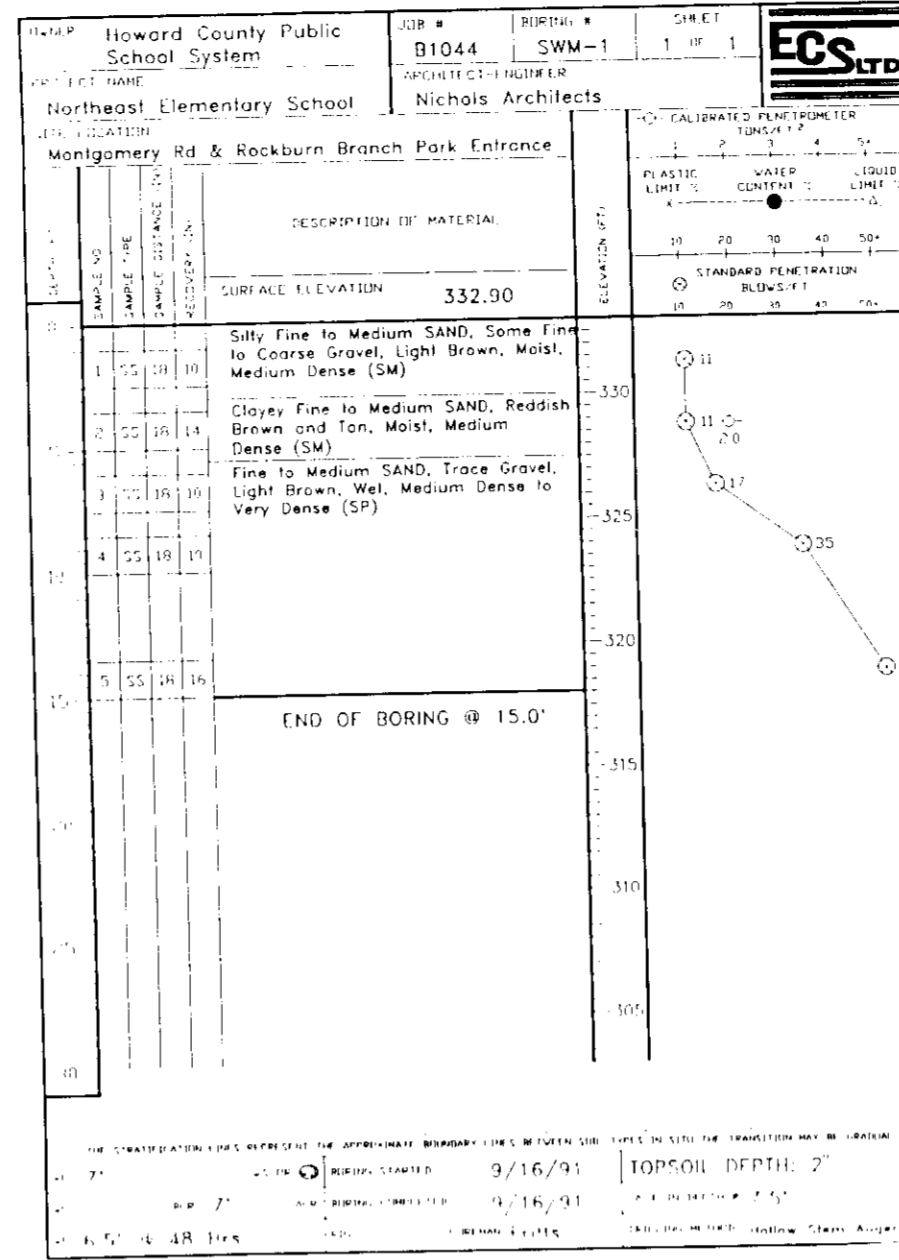
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary ditches, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The Contractor shall also furnish, 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 other 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 refilled shall be maintained below the bottom of the excavation at such locations when any require draining the water to pumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a stable condition. All exposed surfaces of the embankment, spillway, spot and borrow areas, and berms shall be stabilized by seeding, living, mulching 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.

Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution prevented. 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.



SOIL BORINGS

NOTE: See Soils Report by Engineering Consulting Services, Ltd. dated October 7, 1991.

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

James H. Hill 2/2/92

APPROVED HOWARD COUNTY DEPT OF PLANNING & ZONING

James H. Hill 2/14/92

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

James H. Hill 3/2/92

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

James H. Hill 2/25/92

U.S. Soil Conservation Service

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

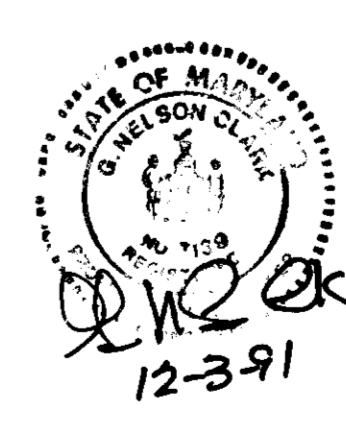
Approved Robert Zielman 2/25/92

Howard S.C.D.

ENGINEER'S CERTIFICATE

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

Signature of Engineer: [Signature] Date: 12-3-91



DEVELOPER'S CERTIFICATION

"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 Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with As Built plan of the pond within 30 days of completion. I will also authorize periodic on-site inspections by the Howard Soil Conservation District."

Cathleen Conley Young 11/14/91

Signature of Developer

CLARK • FINEFROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 • BALTO • (301) 621-8100 • WASH

DESIGNED RJS	SCALE AS SHOWN
DRAWN JTA	DRAWING 6 OF 15
CHECKED RJS	JOB NO 91-113
DATE Feb 10, 92	FILE NO 91-113 X

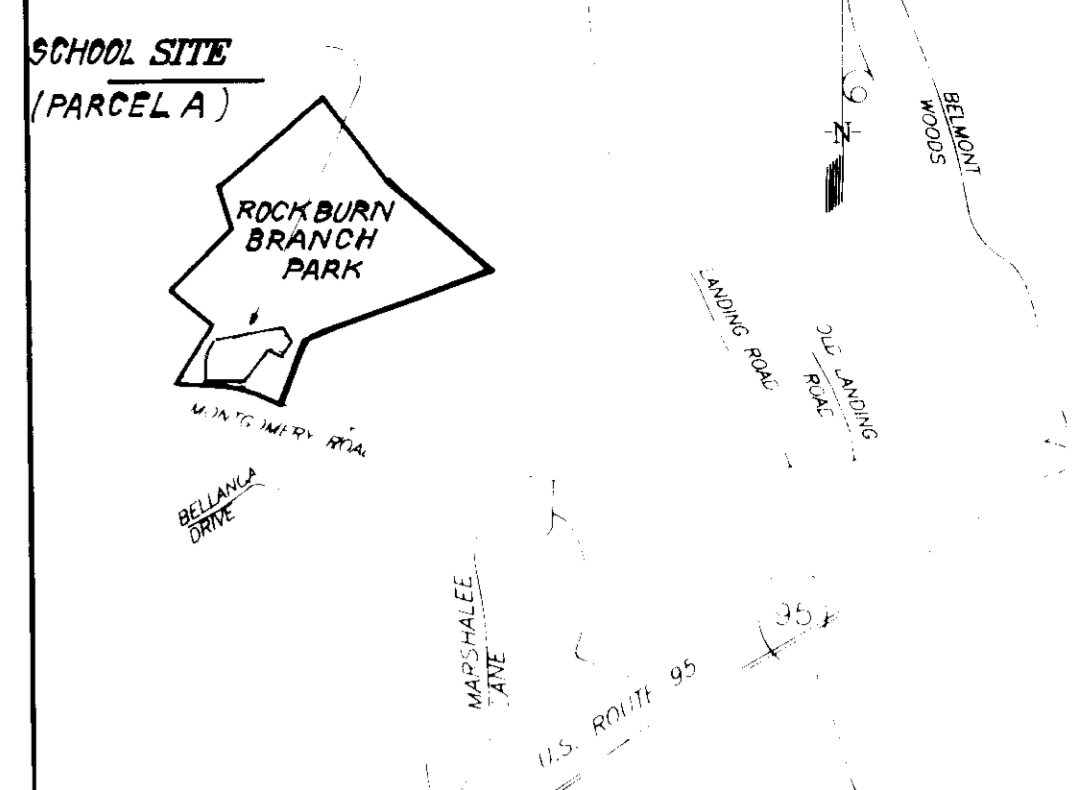
FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 104 ELLICOTT CITY, MARYLAND 21043

SDP. 92-58

MATCH LINE "A-A" SEE SHEET 8

LEGEND:

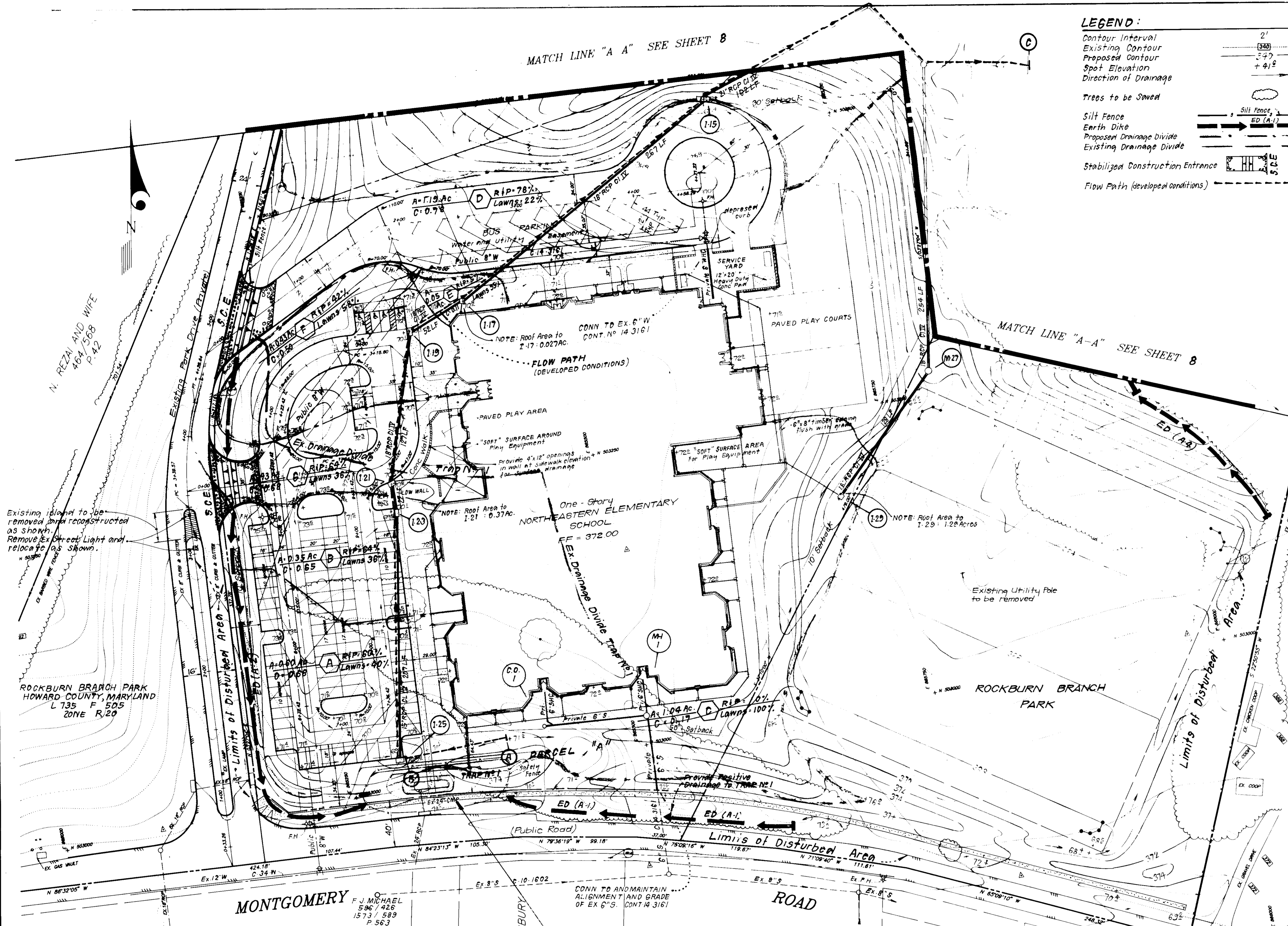
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- Existing Contour: [Symbol]
- Proposed Contour: [Symbol]
- Spot Elevation: +41.2
- Direction of Drainage: [Symbol]
- Trees to be Saved: [Symbol]
- Silt Fence: [Symbol]
- Earth Dike: [Symbol]
- Proposed Drainage Divide: [Symbol]
- Existing Drainage Divide: [Symbol]
- Stabilized Construction Entrance: [Symbol]
- Flow Path (developed conditions): [Symbol]



Reviewed for HOWARD S.C.D.
Name: [Signature]
Date: 2/25/92
Signature: [Signature]
US Soil Conservation Service

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

Robert Zielinski 2/25/92
Approved



ROCKBURN BRANCH PARK
HOWARD COUNTY, MARYLAND
L 735 F 505
ZONE R20

MONTGOMERY ROAD

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

County Health Officer: [Signature] DATE: 3-6-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

Director: [Signature] DATE: 2/18/92

Chief Division of Community Planning and Land Development: [Signature] DATE: 2/14/92

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

Director: [Signature] DATE: 3/2/92

Chief Bureau of Engineering: [Signature] DATE: 2-2-92

F. J. MICHAEL
596 / 426
1573 / 589
P. 363

CONN TO AND MAINTAIN ALIGNMENT AND GRADE OF EX 6'S. CONT 14 3161

ROBERT AMMESBURY
270/196
P. 329

TRAP #1 (POST) ST-1

Drainage Area	2.3 Acres
Storage Required	4140 CF
Storage Provided	6000 CF
Weir Crest Elev.	387.0
Cleavage Elev.	384.5
Bottom Elev.	362.0
Depth	4.0
* Riser Dia.	24"
Bottom Dimension	35' x 8'
Side Slopes	2:1 Max.

* NOTE: Riser to be connected to Ex 24" OMP Ex Inv Elev. 361.1

CAROLYN DAYSON
1654/462

MARCELLA B. CUGLE
LOTS 1 AND 2
PLAT 6660

WALTER MAYER
1531/677

MICHAEL FIEDEN
2009/24

TIMOTHY S. CUGLE
191/234

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Cathleen Conley Young 11/10/91
Signature Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

JL WS EK 11-15-91
Signature Date



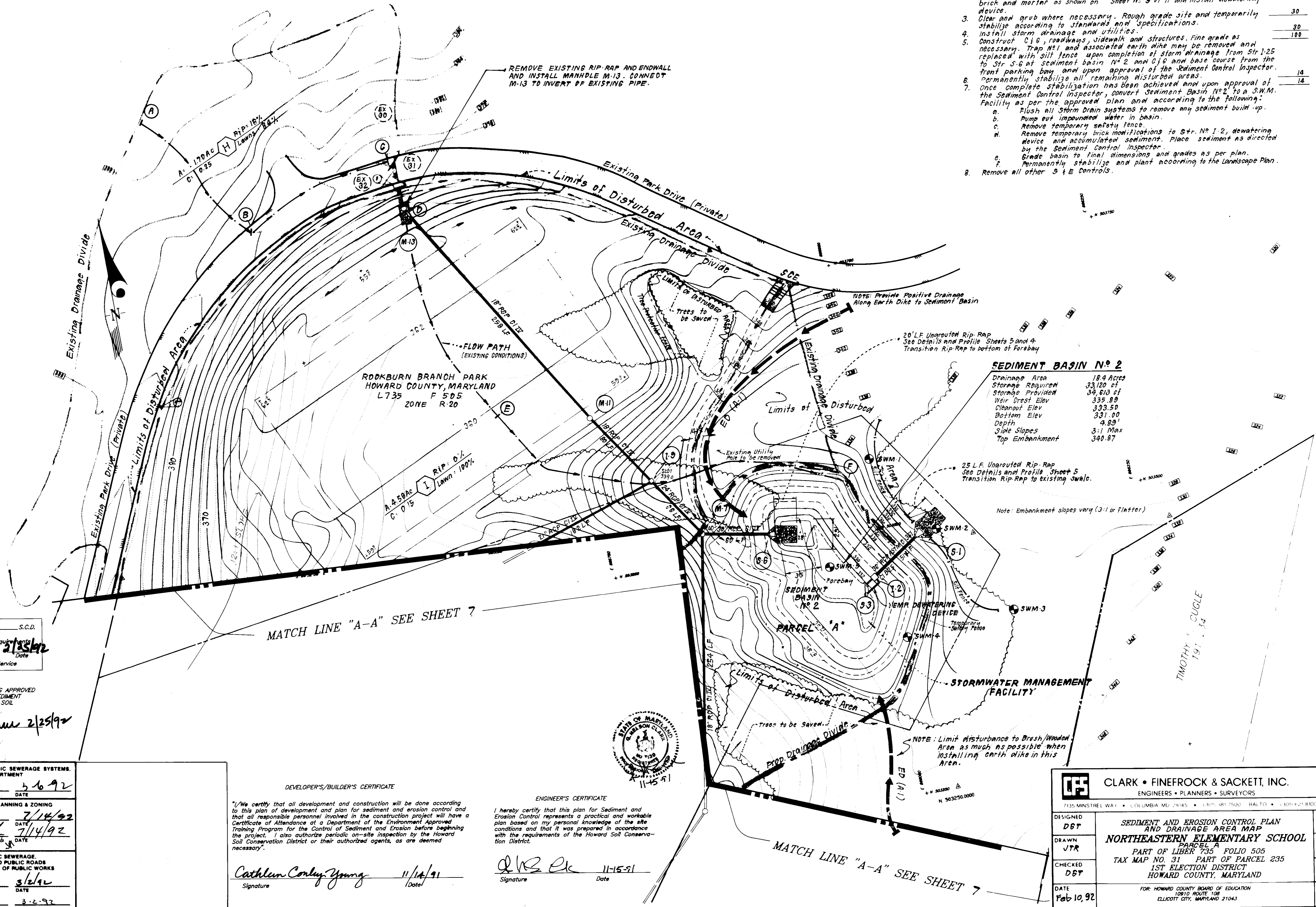
CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA MD 21045 • (301) 817-7500 • BALTO • (301) 621-8100 • WASH

DESIGNED D.B.T.	SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP NORTHEASTERN ELEMENTARY SCHOOL PARCEL A TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=40'
DRAWN JTR		DRAWING 7 OF 15
CHECKED D.B.T.		JOB NO 21-113
DATE NOV. 1991		FILE NO 21-113-5E
FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043		

CONSTRUCTION SEQUENCE:

	NUMBER OF DAYS
1. Obtain grading permit.	7
2. Install sediment and erosion controls including Trap No. 1, Sediment Basin No. 2, earth dike, silt fence and stabilized construction entrance. Construct S.W.M. pond, riser, barrel and overflow for use as Sediment Basin No. 2. Temporarily modify Structure No. 1, 2 with temporary brick and mortar as shown on Sheet No. 9 of 11 and install dewatering device.	14
3. Clear and grub where necessary. Rough grade site and temporarily stabilize according to standards and specifications.	30
4. Install storm drainage and utilities.	30
5. Construct C.I.P., roadways, sidewalk and structures. Fine grade as necessary. Trap No. 1 and associated earth dike may be removed and replaced with silt fence upon completion of storm drainage from Str. 1, 2 to Str. 5-6 at sediment basin No. 2 and base course from the front parking bay and upon approval of the Sediment Control Inspector.	14
6. Permanently stabilize all remaining disturbed areas.	14
7. Once complete stabilization has been achieved and upon approval of the Sediment Control Inspector, convert Sediment Basin No. 2 to a S.W.M. Facility as per the approved plan and according to the following:	
a. Flush all storm drain systems to remove any sediment build-up.	
b. Pump out impounded water in basin.	
c. Remove temporary safety fence.	
d. Remove temporary brick modifications to Str. No. 1, 2, dewatering device and accumulated sediment. Place sediment as directed by the Sediment Control Inspector.	
e. Grade basin to final dimensions and grades as per plan.	
f. Permanently stabilize and plant according to the Landscape Plan.	
8. Remove all other S & E Controls.	



SEDIMENT BASIN No. 2

Drainage Area	18.4 Acres
Storage Required	33,120 cu ft
Storage Provided	34,813 cu ft
Weir Crest Elev.	335.89
Clearout Elev.	333.50
Bottom Elev.	331.00
Depth	4.89'
Slope Slopes	3:1 Max
Top Embankment	340.87

Note: Embankment slopes vary (3:1 or flatter)

Reviewed for HOWARD S.C.D. Name: [Signature] Date: 2/25/92
 Signature: [Signature] Date: 2/25/92
 US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 [Signature] 2/25/92
 Approver

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 3/6/92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 [Signature] 3/14/92
 DIRECTOR DATE
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

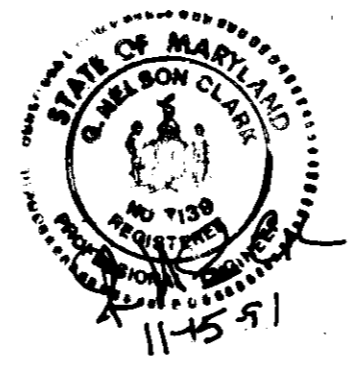
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 3/2/92
 DIRECTOR DATE
 CHIEF BUREAU OF ENGINEERING DATE

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."
 [Signature] 11/14/91
 Signature Date

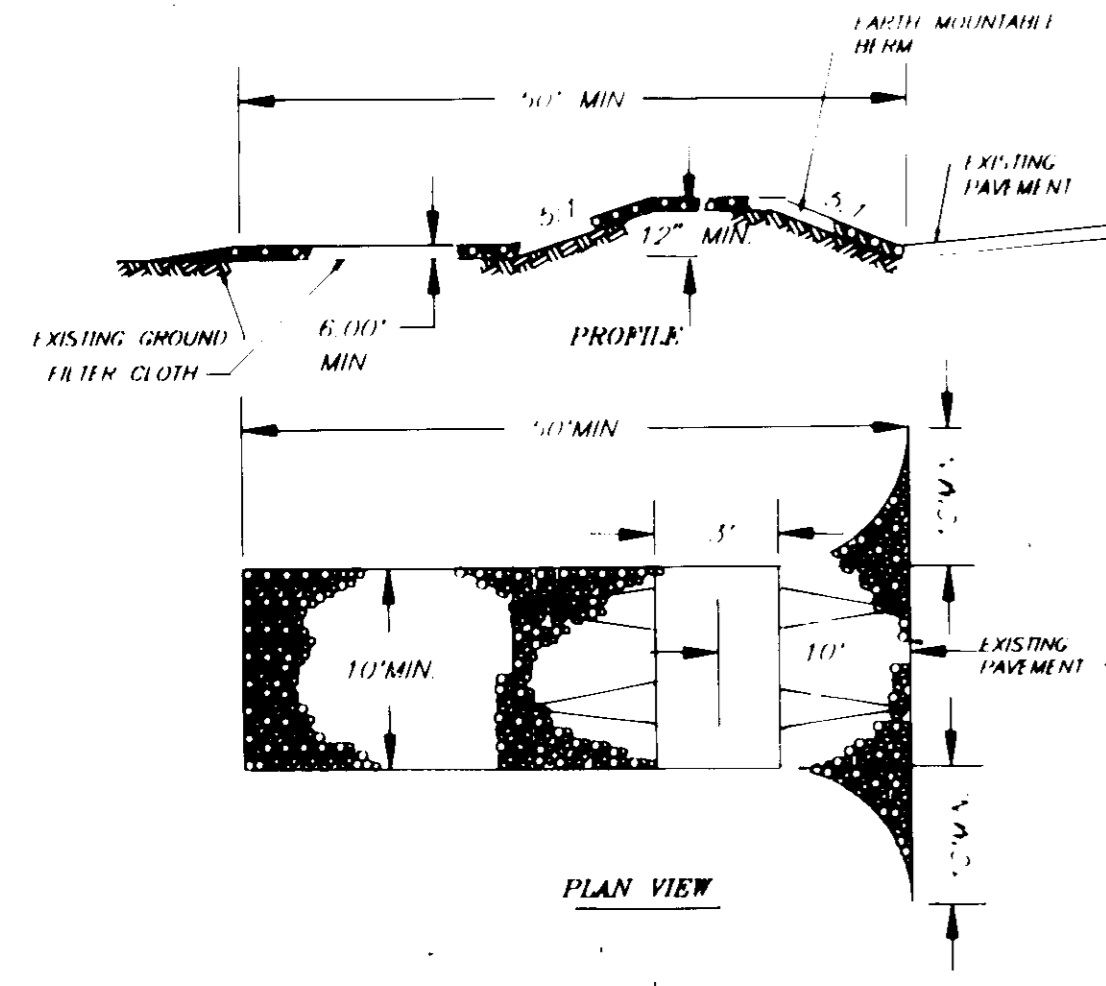
ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 [Signature] 11-15-91
 Signature Date



CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 881-7500 • BALTO. • (301) 621-8100 • WASH.

DESIGNED DBT	SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP NORTHEASTERN ELEMENTARY SCHOOL PARCEL A PART OF LIBER 735, FOLIO 505 TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=40'
DRAWN JTR		DRAWING 8 OF 15
CHECKED DBT		JOB NO. 91-113
DATE Feb 10, 92		FILE NO. 91-113-51E
FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELICOTT CITY, MARYLAND 21043		



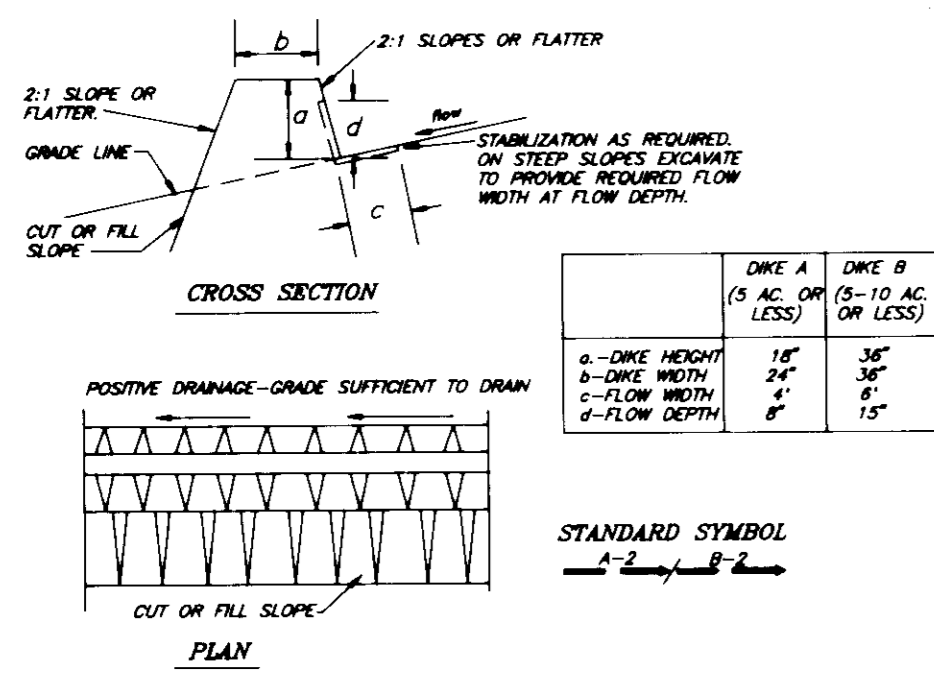
STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

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

STABILIZED CONSTRUCTION ENTRANCE (SCE)

NO SCALE



	DIKE A (5 AC. OR LESS)	DIKE B (5-10 AC. OR LESS)
a-DIKE HEIGHT	18"	36"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4"	4"
d-FLOW DEPTH	8"	15"

STANDARD SYMBOL:

CONSTRUCTION SPECIFICATIONS

- All dikes shall be compacted by earth moving equipment.
- All dikes shall be placed on a subgrade of 2:1 or better.
- Top width may be wider and side slopes may be flatter if desired to facilitate construction.
- Final location should be adjusted as needed to utilize a stabilized safe outlet.
- Flow channel shall be stabilized with a minimum of 200 lbs. of stone per square foot. The stone shall be placed in a uniform layer and shall be compacted. The stone shall be placed in a uniform layer and shall be compacted.
- Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mat if not in seeding season; (B) flow channel as per the chart below.

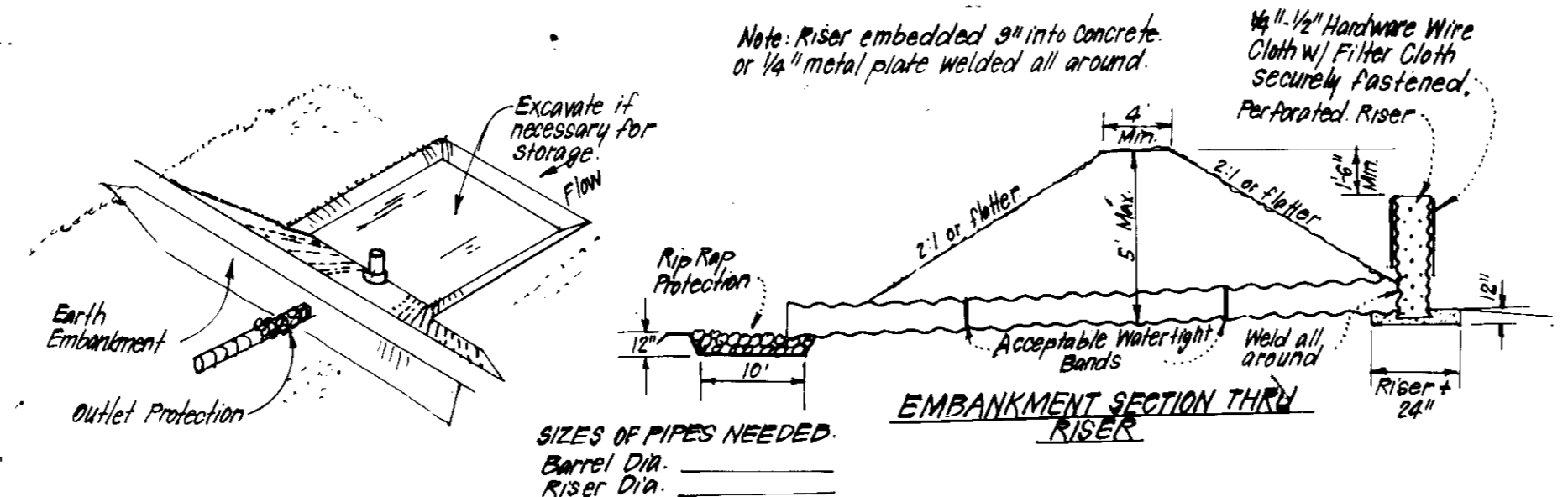
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	0.5-1.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	1.1-5.0%	SEED AND STRAW MULCH, OR EXCELSDOR, 300, 2" STONE	SEED AND STRAW MULCH, OR EXCELSDOR, 300, 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOO, 2" STONE	LINED RIP-RAP 4"-6"
4	8.1-20%	LINED RIP-RAP 4"-6"	ENGINEERING DESIGN

1. Stone to be 2 inch min. or recycled concrete equivalent, in a layer of at least 3 inches in thickness and be placed into the soil with construction equipment.
2. Rip-rap to be 4 inches in a layer of at least 8 inches thick and placed into the soil with construction equipment.
3. Approved equivalents can be substituted for any of the above materials.
4. Periodic inspection and required maintenance must be provided after each rain event.

EARTH DIKE (ED)

NO SCALE

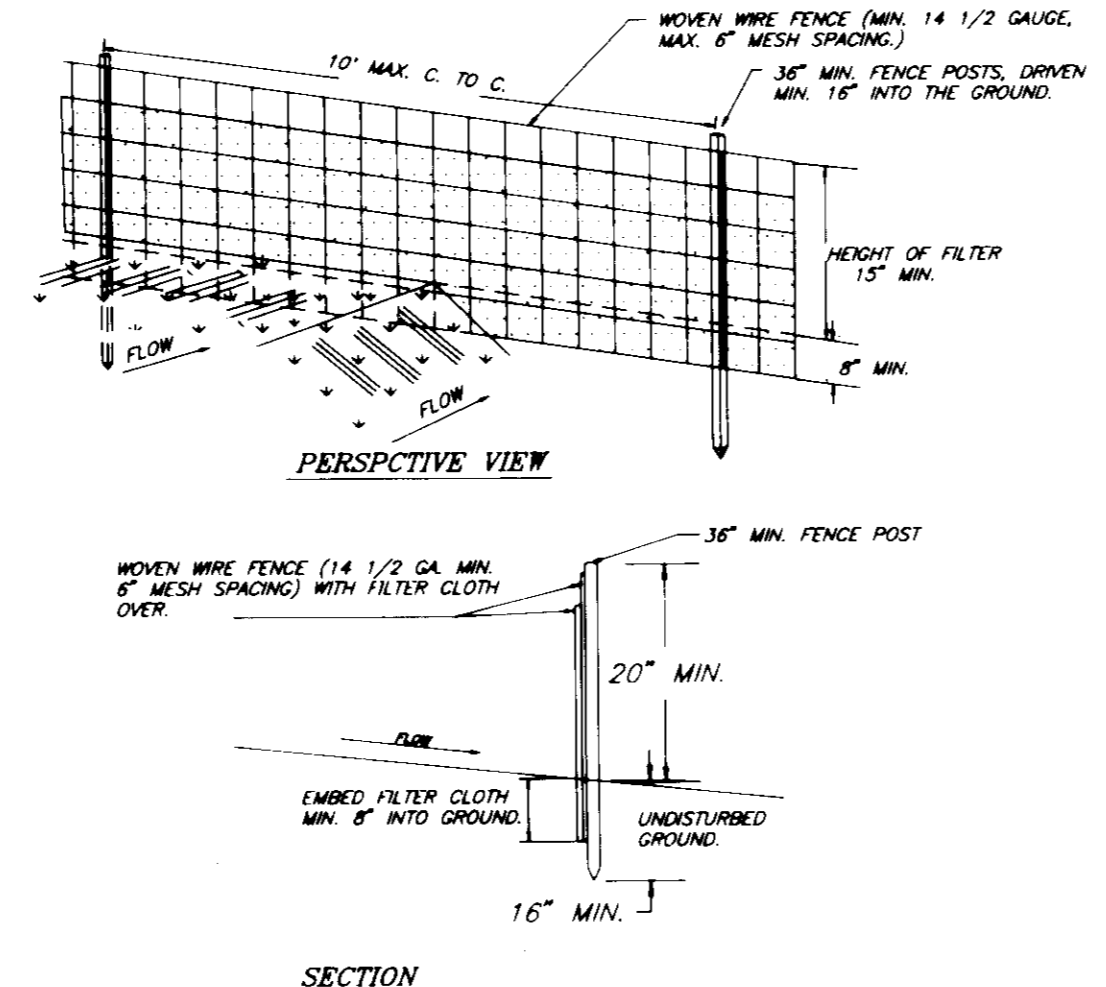


CONSTRUCTION SPECIFICATIONS:

- Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
- The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
- Volume of sediment trapped shall be 100 cubic feet per acre of contributory drainage.
- Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The structure shall be inspected after each rain, and repairs made as needed.
- Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
- The structure shall be removed and area stabilized when the drainage area has been properly stabilized.
- All fill slopes shall be 2:1 or flatter 1:1 or flatter.
- All pipe connections shall be watertight.
- The top 2/3 of the riser shall be perforated with 1" diameter holes or slits spaced 6" vertically and horizontally and placed in the oblique portion of pipe. No holes will be allowed within 6" of the horizontal barrel.
- The riser shall be wrapped with 1/4" x 1/4" hardware cloth wire then wrapped with filter cloth (having an equivalent sieve size of 40-60). The filter cloth shall extend 6" above the highest hole and 6" below the lowest hole. Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent bypass.
- Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
- Fill material around the pipe shall be hand compacted in 4" layers. A min. of 2" of hand compacted backfill shall be placed over the pipe and before crossing it with construction equipment.
- The riser shall be anchored with either a concrete base or steel plate base to prevent vibration. For concrete base the depth shall be 12" with the riser embedded 9". A 1/4" min. thickness steel plate shall be attached to the riser by a continuous weld around the bottom to form a watertight connection and then place 2' of stone, gravel, or tamped earth on the plate.

PIPE OUTLET SEDIMENT TRAP (P.O.S.T.)

NO SCALE



CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

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

POSTS: STEEL EITHER I OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 1 1/2 GA., 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MIRAF 100X, STABILINKA T140M, OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

SILT FENCE (S)

NO SCALE

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 acre dolomitic limestone (92 lbs./1000 sq ft.) before seeding, and 600 lbs per acre 10-10-10 fertilizer (14 lbs./1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs./1000 sq ft.)
 - Acceptable- Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq ft.) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs./1000 sq ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (14 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 (0.5 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 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 unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using much anchoring tool or 218 gallons per acre (5 gal./1000 sq ft.) of emulsified asphalt or flat areas. On slopes 8 feet or higher, use 348 gallons per acre (19 gal./1000 sq ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

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 periods March 1 thru April 30 and from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (22 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 unrattled small grain straw immediately after seeding. Anchor mulch immediately after application using much 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 (19 gal./1000 sq ft.) for anchoring.

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

SEDIMENT AND EROSION CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction (992 2437)

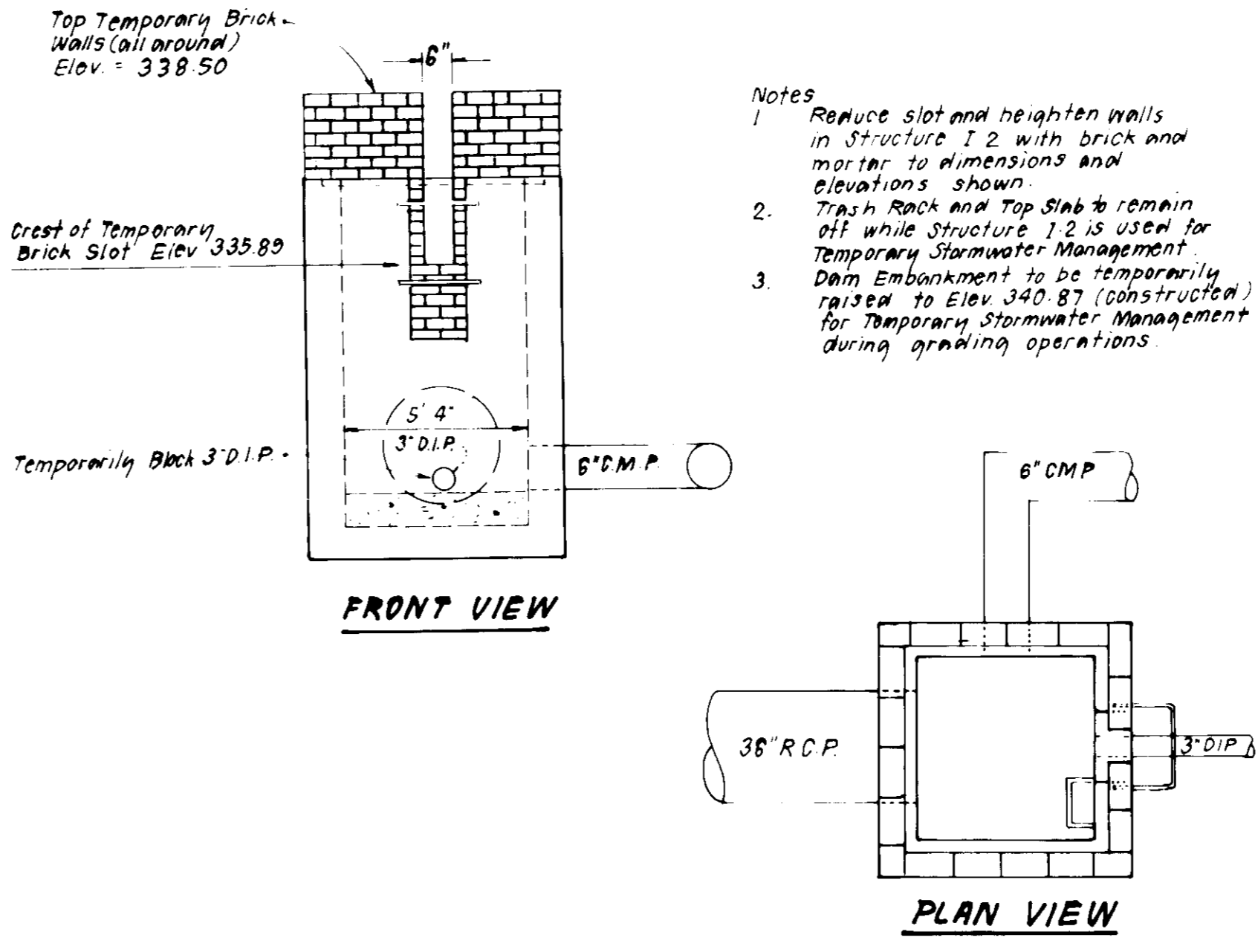
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within 90 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 1:1. 14 days as to all other disturbed or graded areas in the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12 of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 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.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- SITE ANALYSIS**
Total Area of Site: 10.7 Ac
Area Disturbed: 18.3 Ac
Area to be seeded or paved: 1.3 Ac
Area to be vegetatively stabilized: 1.3 Ac
Total Cut: 88,000 C.Y.
Total Fill: 88,000 C.Y.
Off-site Waste/Borrow Area Location: _____

- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DPW Sediment Control Inspector. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- If houses are to be constructed on an "as shown" basis, at random, Single Family Sediment Control, as shown below shall be implemented.
- All pipes to be blocked at the end of each day (see detail this sheet).
- The total amount of silt fence= 210 L.F.

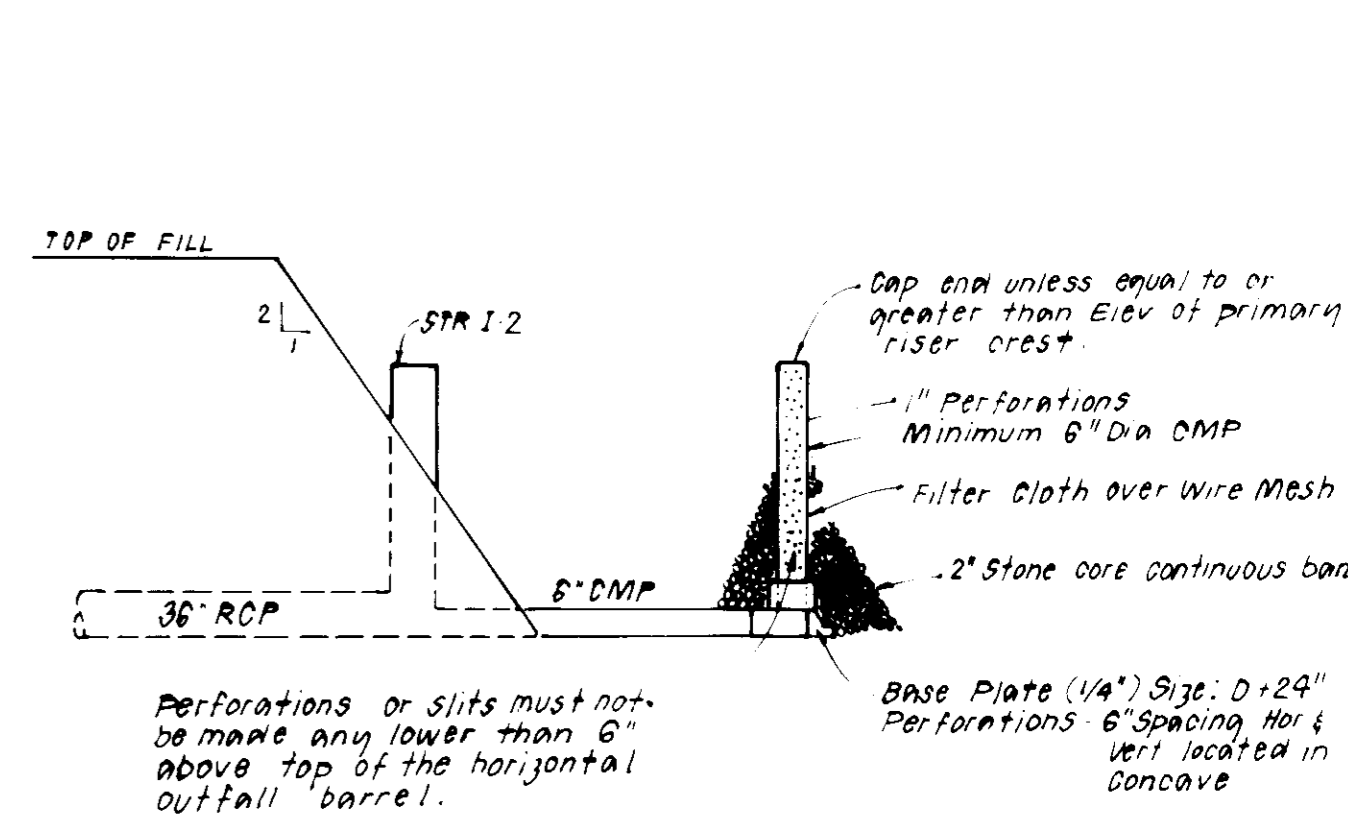
It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

FOR CONSTRUCTION SEQUENCE, SEE SHEET 8 OF 11



ADJUSTMENTS TO STRUCTURE 1-2 FOR TEMPORARY SWM AND DEWATER DEVICE

NO SCALE



SEDIMENT BASIN DEWATERING DEVICE WITH 6\"/>

NO SCALE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 3-6-92
COUNTY HEALTH OFFICER

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DATE: 7/14/92
DIRECTOR

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 3/2/92
DIRECTOR

CHIEF BUREAU OF ENGINEERING
DATE: 3-2-92

Reviewed for HOWARD COUNTY S.C.D.
Name: _____
Signature: _____
Date: 2/25/92
US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
Approved: Robert Zielman 2/25/92

DEVELOPER'S/BUILDER'S CERTIFICATE
I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary.

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Cathleen Conley-Young 1/14/91
Signature: _____ Date: 1/14/91

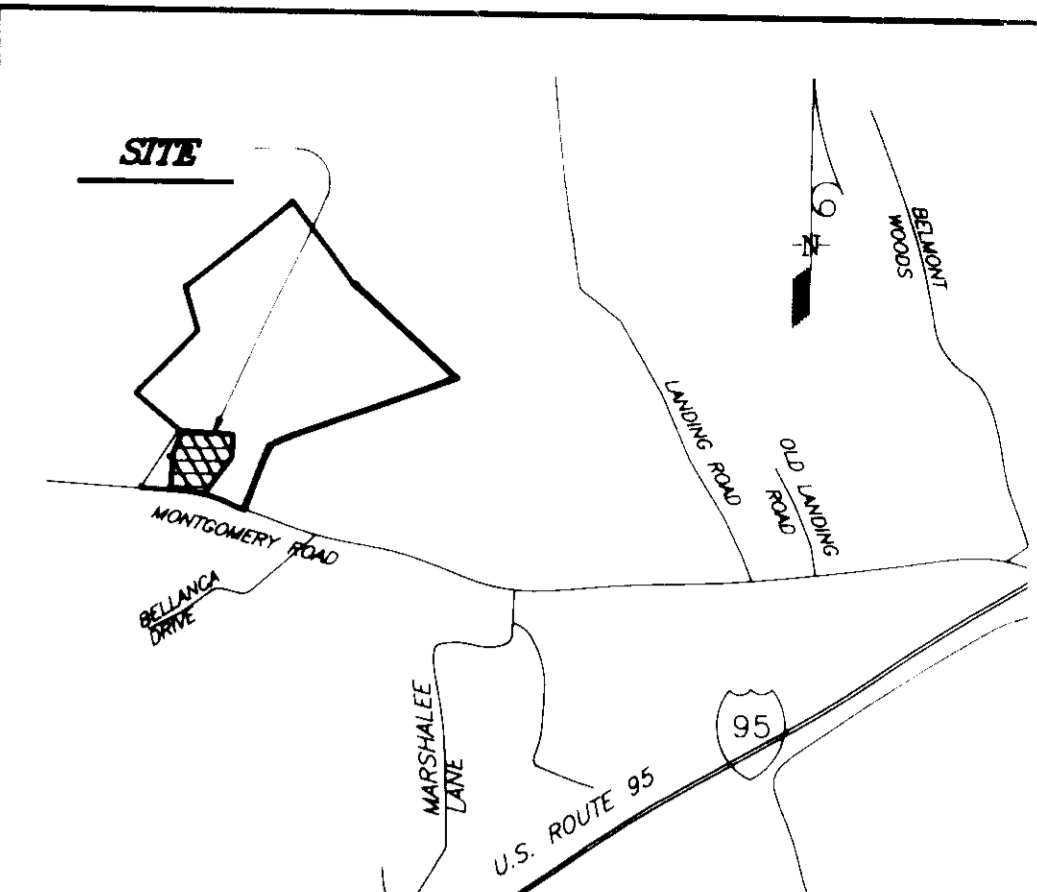
J. H. Q. Cat 11-18-91
Signature: _____ Date: 11-18-91

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7145 MINSTREL WAY • COLUMBIA MD 21046 • (301) 981-7300 • BALTIMORE • (410) 528-1100

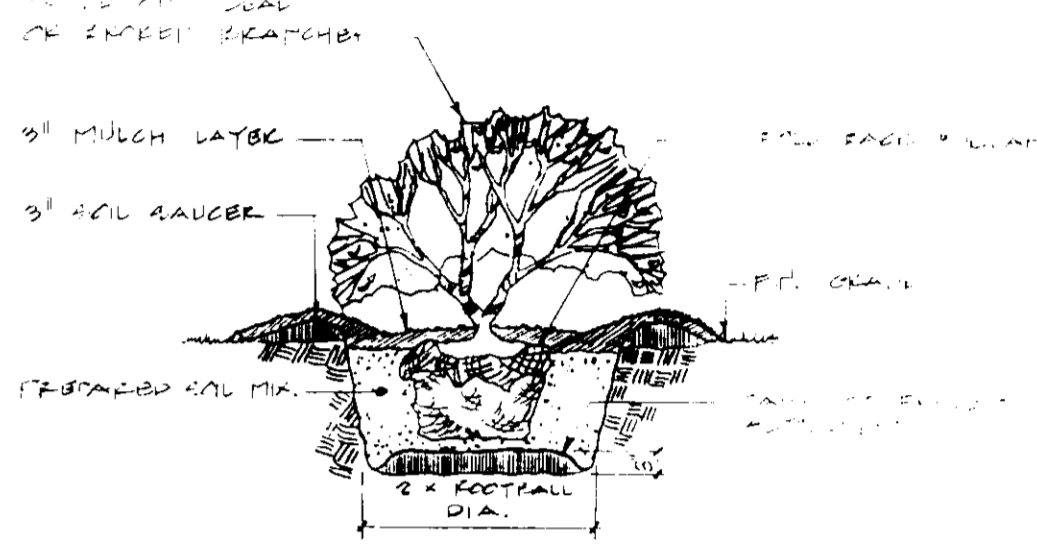
DESIGNED DGT	SEDIMENT AND EROSION CONTROL DETAILS PARCEL A NORTHEASTERN ELEMENTARY SCHOOL	SCALE AS SHOWN
DRAWN JTR	PART OF LIBER 735 FOLIO 505 TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	DRAWING 9 OF 15
CHECKED DGT		JOB NO 91-113
DATE Feb 10, 92	FOR: HOWARD COUNTY BOARD OF EDUCATION 10910 ROUTE 108 ELLCOTT CITY, MARYLAND 21043	FILE NO 91-113 SIE

900 92-98

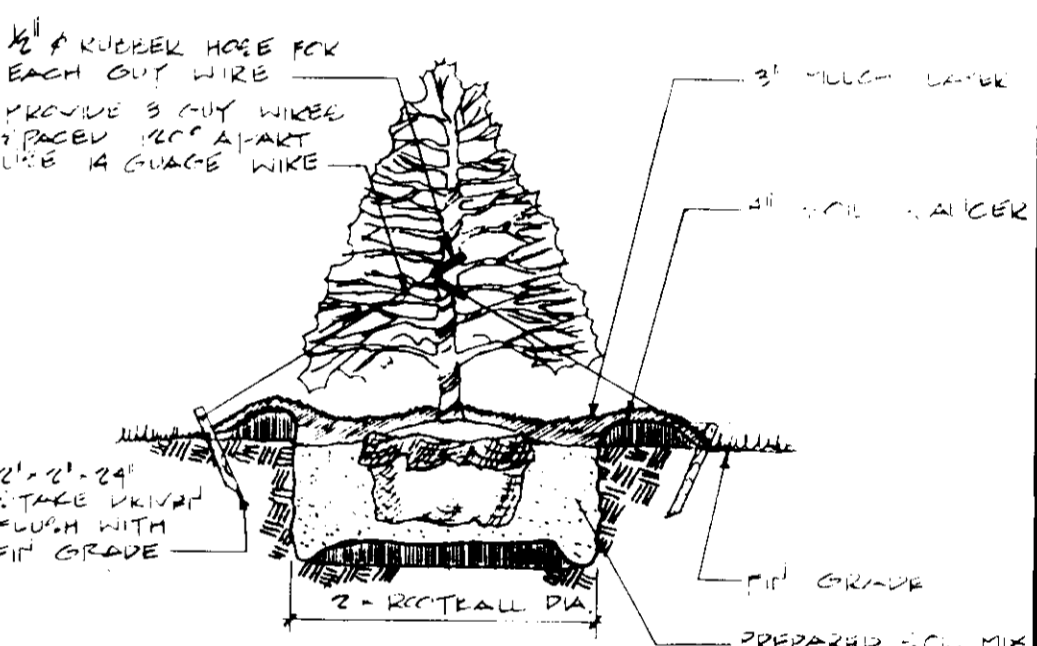
MATCH LINE "A-A" SEE SHEET 11



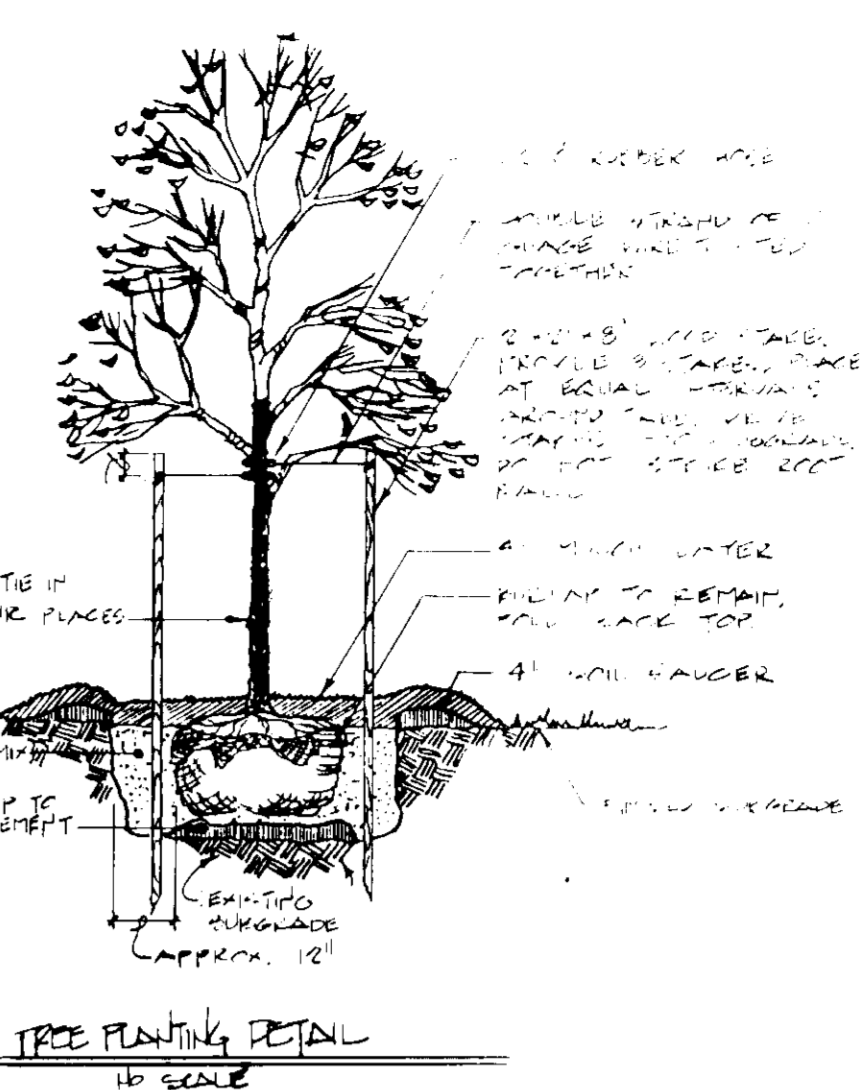
VICINITY MAP
SCALE: 1"=200'



Shrubs
NO SCALE



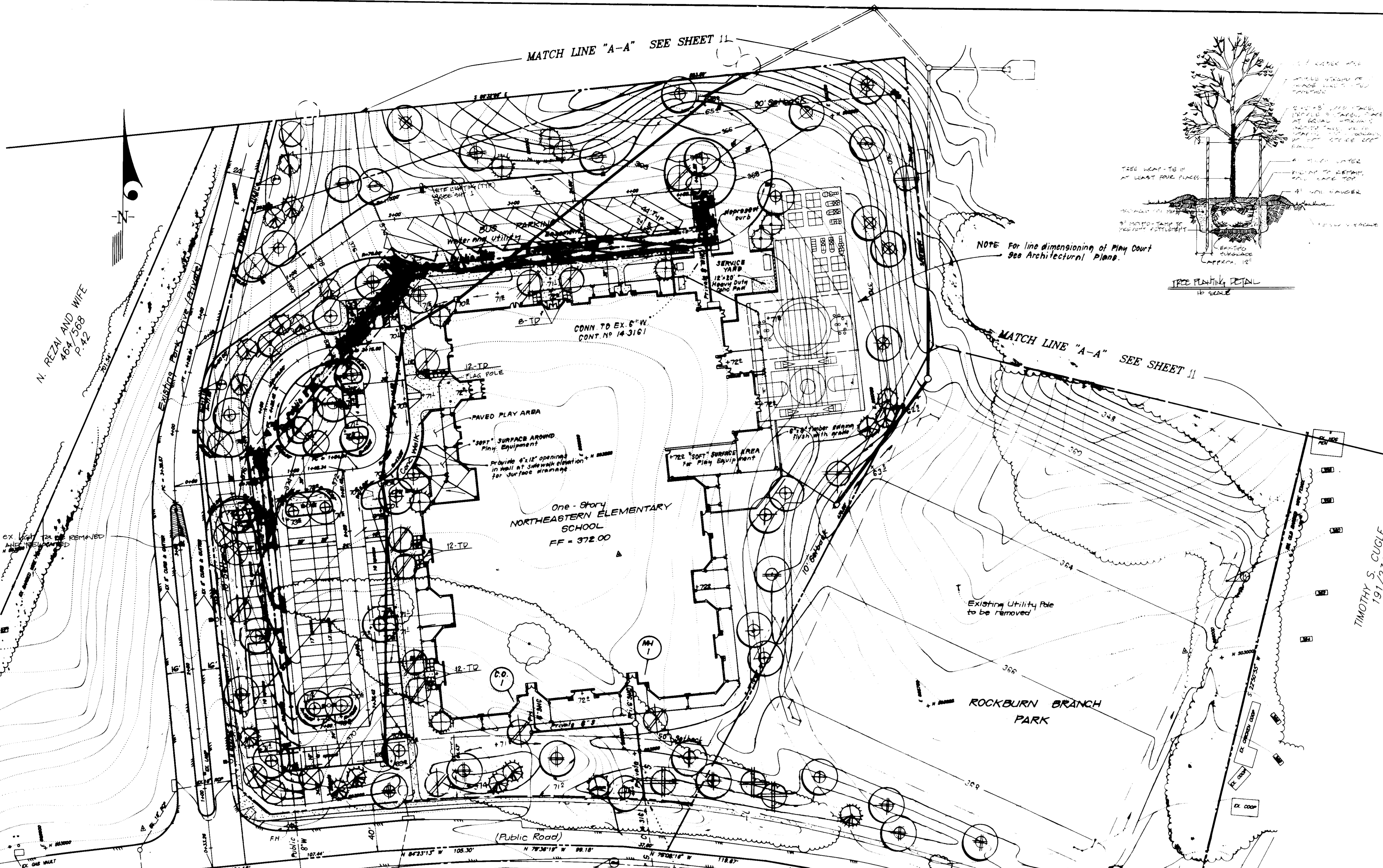
Conifers
NO SCALE



TREE PLANTING DETAIL
10 SCALE

NOTE: For line dimensioning of Play Court See Architectural Plans.

MATCH LINE "A-A" SEE SHEET 11



One-Story
NORTHEASTERN ELEMENTARY
SCHOOL
FF = 372.00

ROCKBURN BRANCH
PARK

MONTGOMERY ROAD

ROAD

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT	3-6-92
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING	7/14/92
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	3/2/92
CHIEF BUREAU OF ENGINEERING	7/20/92

F. J. MICHAEL
586 / 426
1573 / 589
P. 583

ROBERT AMMESBURY
270 / 196
P. 329

CAROLYN DAYSON
1654 / 462

MARCELLA B. CUGLE
LOIS 1 AND 2
PLAT 6660

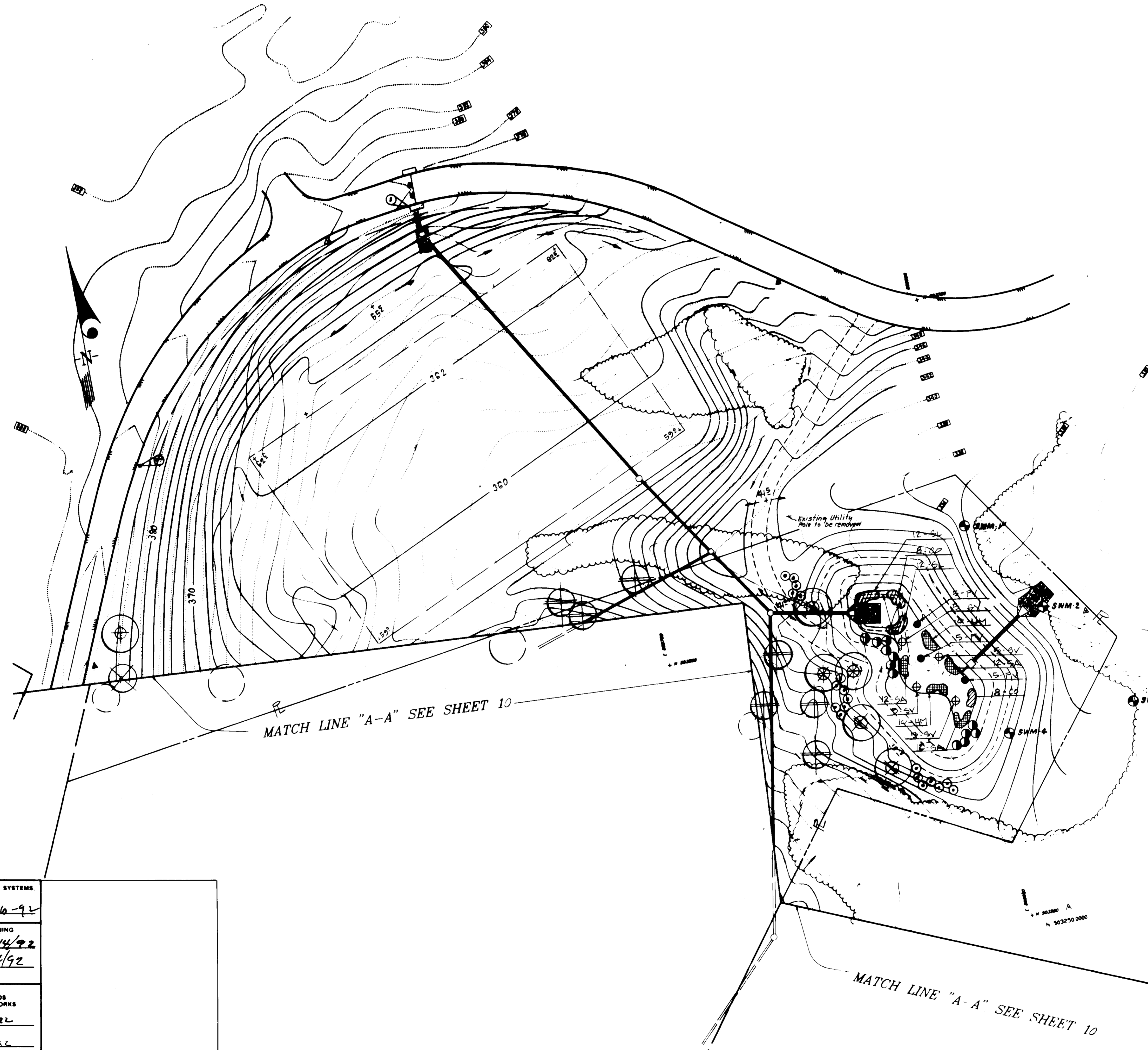
WALTER MAYER
1531 / 677

MICHAEL HILDEN
2009 / 24

CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS <small>1011 MARSHALL WAY • COLUMBIA, MD 21046 • (410) 278-1000 • FAX (410) 278-1001 • WWW.CFSI.COM</small>			
DESIGNED	LANDSCAPE ARCHITECTURE	SCALE	1"=40'
DRAWN	MLP	DRAWING	10 OF 15
CHECKED	MLP	JOB NO.	01-113
DATE	2-10-92	FILE NO.	01-113LS
NORTHEASTERN ELEMENTARY SCHOOL TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND <small>FOR HOWARD COUNTY BOARD OF EDUCATION 10912 ROUTE 108 ELLICOTT CITY, MARYLAND 21043, 3</small>			

W. J. P. H. S.
2-12-92

SDP 92-58



PLANT SCHEDULE				
KEY	PLANT SPECIES	SIZE	QTY	REMARKS
	SHRUBS			
⊕	ACEL RUDOLPH'S RED	1 1/2" DB	24	1 1/2" DB
⊕	ACEL RUDOLPH'S RED	1 1/2" DB	24	1 1/2" DB
⊕	ZELKOVIA SELATA GREEN VANE		8	
⊕	ACEL RUDOLPH'S RED		7	
⊕	NISSA SYRIACA		4	
	FLOWERING BIRCHES TREES			
⊕	PRUNUS PERSICATA KWAZIAN	2 1/2" DB	11	1 1/2" DB
⊕	PRUNUS PERSICATA ROSEY CLOUD	1 1/2" DB	12	
⊕	BETULA NIGRA		9	
⊕	PRUNUS CERASIFERA THUNDERCLOUD		3	
⊕	PINUS STROBUS	6" DB	20	
⊕	TAXUS CANADENSIS		9	
	SHRUBS			
⊕	CORYLUS AGLONIFERA	3-4'	12	1 1/2" DB
⊕	VIBURNUM PRUNIFOLIUM		10	
TD	TAXUS PENNSYLVANICA	10-24'	44	1 1/2" DB
	WETLAND PLANTS			
	EMERGENT SPECIES			
SL	SAGITTARIA LATIFOLIA	1" DB	24	1 1/2" DB
SA	SCIRPUS AMERICANUS	1 1/2" DB	36	1 1/2" DB
SV	SCIRPUS VALLIS	1" DB	20	1 1/2" DB
	SECONDARY SPECIES			
CO	CERANTHUS OCCIDENTALIS	1 1/2" DB	16	1 1/2" DB
HM	HIBISCUS MOSCHEutos	2 1/2" DB	20	1 1/2" DB
PV	PETALONERIS VITICOLA	1 1/2" DB	15	1 1/2" DB

NOTES:
 1) CHECK FOR SHADY LOCATIONS & ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.
 2) ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE ATTACHED SPECIFICATION.
 3) NO - IN CASE LIGHTING FIXTURES SEE SHEET 10 (QUALITY II)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 2-6-92
 APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 PLANNING DIRECTOR: [Signature] DATE: 7/14/92
 CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 7/14/92
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 3/2/92
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: 3-2-92

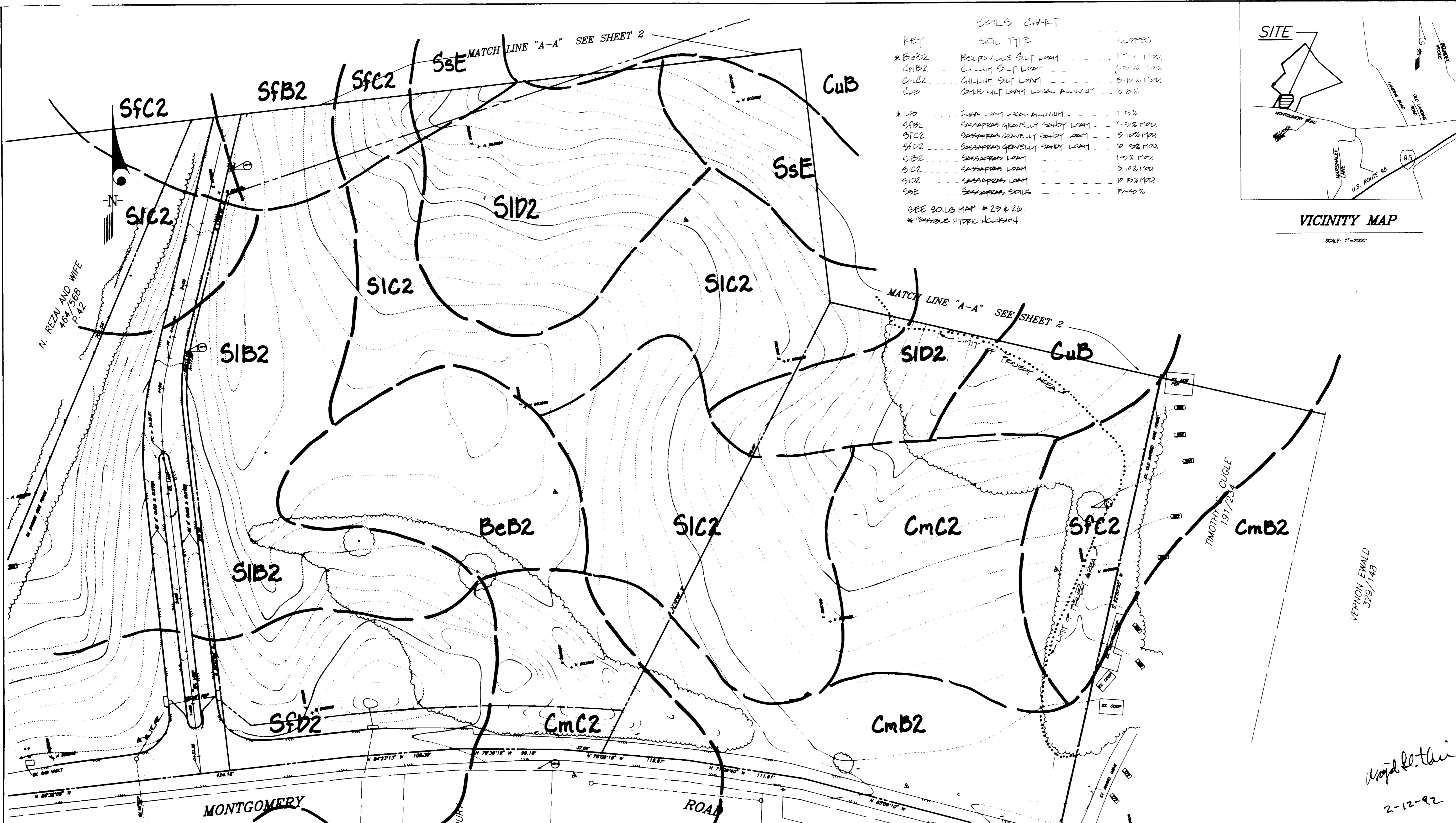
CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS

DESIGNED: HLF
 DRAWN: MJP
 CHECKED: [Signature]
 DATE: 2-10-92

SCALE: 1" = 40'
 DRAWING: 11 OF 15
 JOB NO: 91-113
 FILE NO: 91-113 L9

NORTHEASTERN ELEMENTARY SCHOOL
 PART OF LIBER 735 FOLIO 505
 TAX MAP NO. 31 PART OF PARCEL 235
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

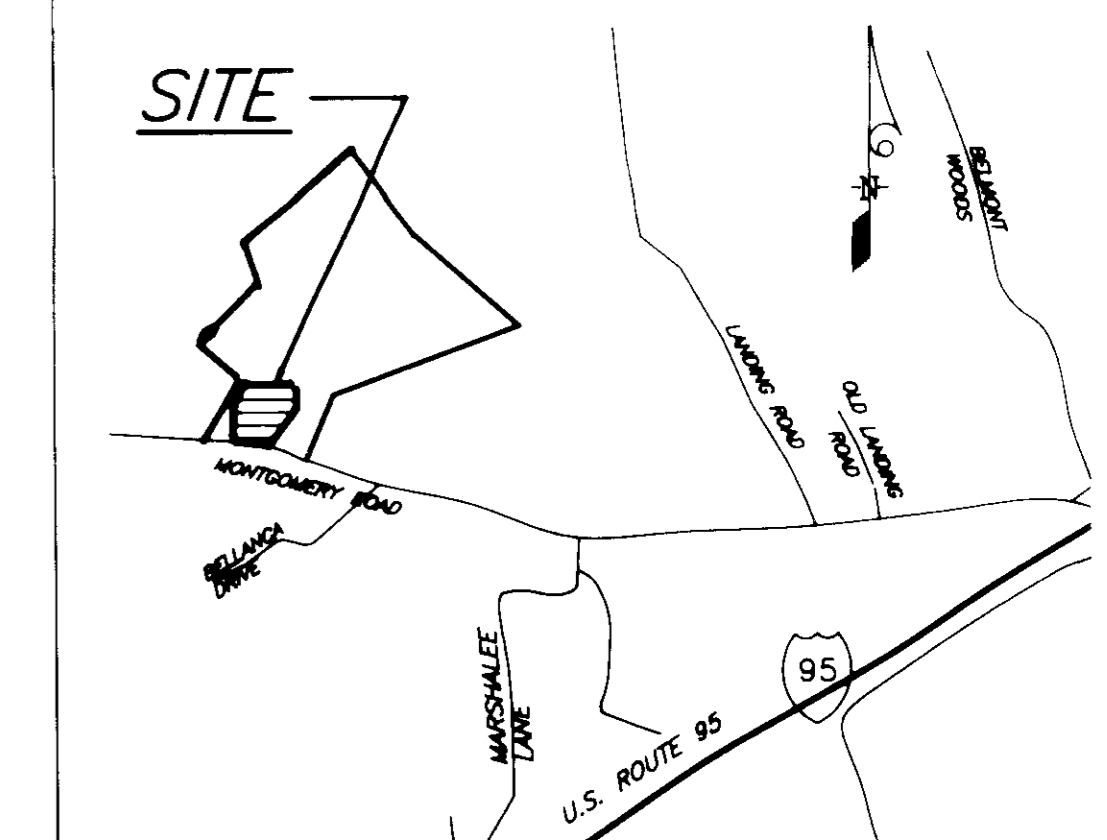
FOR HOWARD COUNTY BOARD OF EDUCATION
 10810 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043



SOILS CHART

KEY	SOIL TYPE	SLOPPED
* BeB2	BELTSVILLE SILT LOAM	1-5% MOD
CmB2	CHILLUM SILT LOAM	1-5% MOD
CmC2	CHILLUM SILT LOAM	5-10% MOD
CuB	CHILLUM SILT LOAM LOCAL ALLUVIUM	3-5%
* IuB	IUPA LOAM LOCAL ALLUVIUM	1-5%
SFB2	SANDPERS GRAVELLY SANDY LOAM	1-5% MOD
SFC2	SANDPERS GRAVELLY SANDY LOAM	5-10% MOD
SFD2	SANDPERS GRAVELLY SANDY LOAM	10-15% MOD
SIB2	SANDPERS LOAM	1-5% MOD
SIC2	SANDPERS LOAM	5-10% MOD
SID2	SANDPERS LOAM	10-15% MOD
SSE	SANDPERS SOILS	15-40%

SEE SOILS MAP # 25 & 26.
* POSSIBLE HYDRIC INCLUSION



VICINITY MAP
SCALE: 1"=2000'

APPROVED: FOR PUBLIC WATER AND PUBLIC BEVERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

[Signature] DATE 3-2-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

[Signature] DATE 7/14/92

[Signature] DATE 7/14/92

APPROVED: FOR PUBLIC WATER AND PUBLIC BEVERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

[Signature] DATE 3/2/92

[Signature] DATE 3-2-92

MONTGOMERY ROAD

ROBERT AMMESBURK 270/196 P.329

CAROLYN DAYSON 1654/462

MARCELLA B. CUGLE LOTS 1 AND 2 PLAT 6660

WALTER MAYER 1531/677

MICHAEL FIEDEN 2009/24

TIMOTHY CUGLE 191/234

VERNON EWALD 329/148

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1000 MINISTERS WAY • COLUMBIA, MD 21046 • (410) 278-7400 • FAX (410) 278-7401

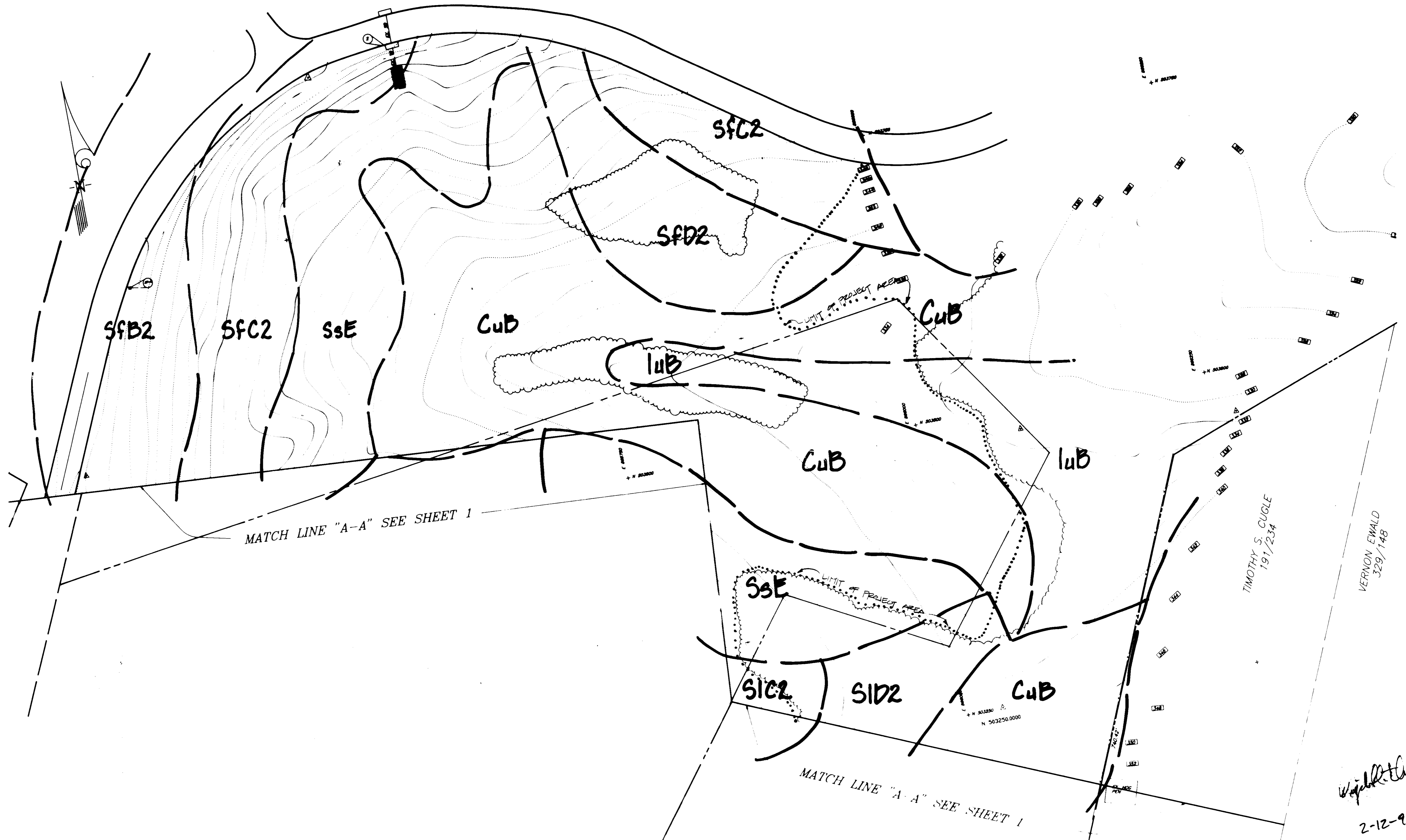
DESIGNED	<i>[Signature]</i>	SCALE	1"=1'
DRAWN	<i>[Signature]</i>	DRAWING	12 OF 15
CHECKED	<i>[Signature]</i>	JOB NO.	01-15-P
DATE	2-10-92	FILE NO.	2-11-P

NORTHEASTERN ELEMENTARY SCHOOL

PART OF LIBER 735 FOLIO 505
TAX MAP NO. 31 PART OF PARCEL 235
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
10810 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

Wendell R. Thi
2-12-92



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

[Signature] 2-6-92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING


[Signature] 7/14/92
DIRECTOR DATE

[Signature] 7/14/92
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

[Signature] 2/2/92
DIRECTOR DATE

[Signature] 2-2-92
CHIEF BUREAU OF ENGINEERING DATE



 CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS		SCALE 1" = 40'
DESIGNED	MJP	SUPPLEMENTARY INFORMATION NORTHEASTERN ELEMENTARY SCHOOL PART OF LIBER 735 FOLIO 505 TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DRAWN	MJP	
CHECKED	HHT	JOB NO 91-113
DATE	2-10-92	FILE NO 91-113 P

FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
FITTESVILLE, MARYLAND 21043

SDP 92-58

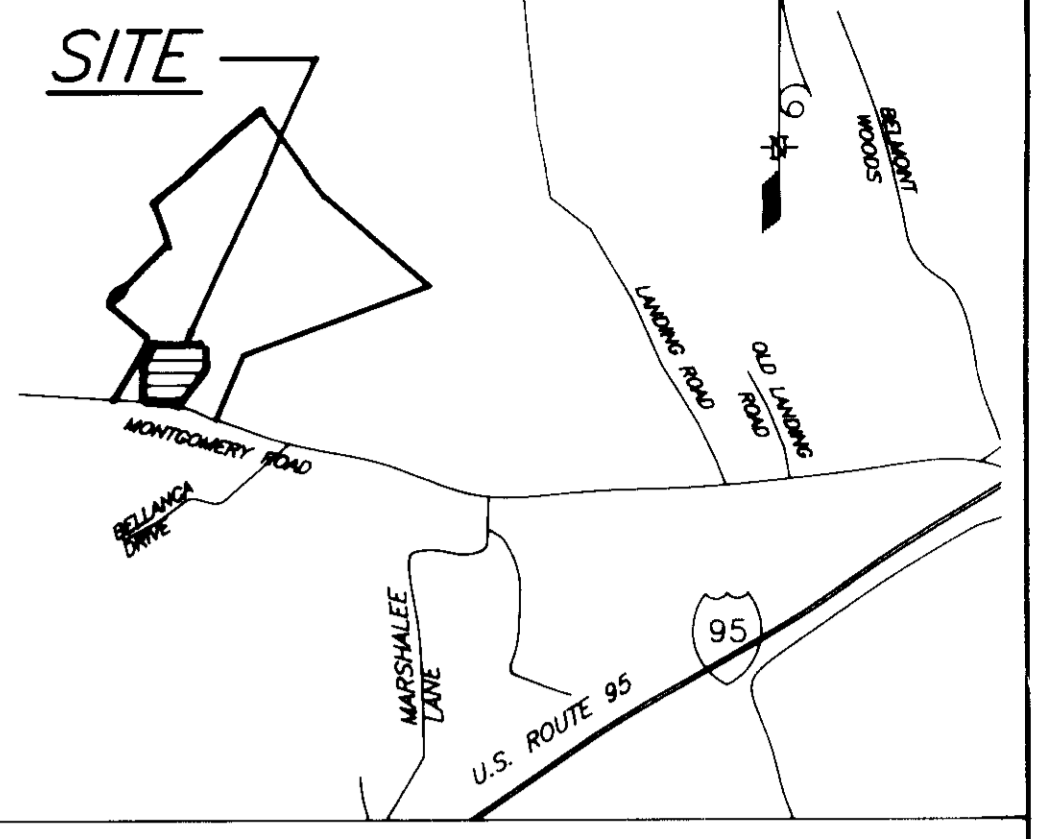
MATCH LINE "A-A" SEE SHEET 2

ENVIRONMENTAL INFORMATION

- SLOPE LEGEND**
-  = 25% OR GREATER SLOPES
 -  = 15% - 24% SLOPES

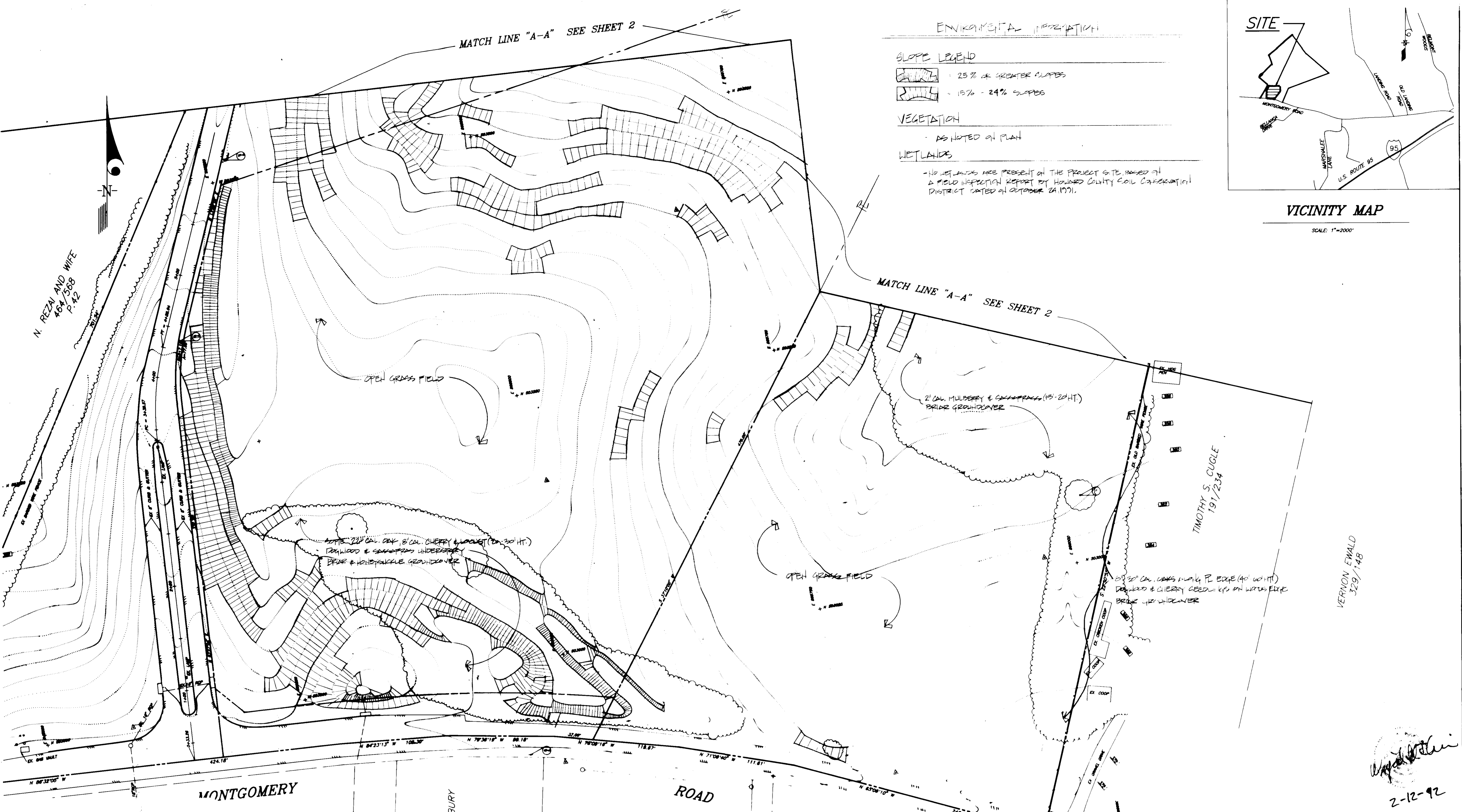
VEGETATION
- AS NOTED ON PLAN

WETLANDS
- NO WETLANDS ARE PRESENT AT THE PROJECT SITE, BASED ON A FIELD INSPECTION REPORT BY HOWARD COUNTY SOIL CONSERVATION DISTRICT DATED ON OCTOBER 24, 1991.



VICINITY MAP

SCALE: 1"=2000'



N. REZAL AND WIFE
464/568
P. 42

OPEN GRASS FIELD

MATCH LINE "A-A" SEE SHEET 2

2' CAL. MULBERRY & SACTOPRAC (15-20 HT.)
BRIDE GROUNDCOVER

30' CAL. OAK, 8' CAL. CHERRY & LOCUST (20-30 HT.)
DRANWOOD & SACTOPRAC UNDERSTORY
BRIDE & HONEYSAUCLE GROUNDCOVER

OPEN GRASS FIELD

30' CAL. OAK, 8' CAL. CHERRY & LOCUST (20-30 HT.)
DRANWOOD & CHERRY UNDERSTORY
BRIDE GROUNDCOVER

TIMOTHY S. CUGLE
191/234

KERNON EWALD
329/148

MONTGOMERY ROAD

ROAD

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT	
<i>[Signature]</i> COUNTY HEALTH OFFICER	3/6/92 DATE
APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING	
<i>[Signature]</i> DIRECTOR	7/14/92 DATE
<i>[Signature]</i> CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	7/14/92 DATE
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>[Signature]</i> DIRECTOR	3/2/92 DATE
<i>[Signature]</i> CHIEF BUREAU OF ENGINEERING	3-2-92 DATE


ROBERT AMMESBURY
270/196
P. 329

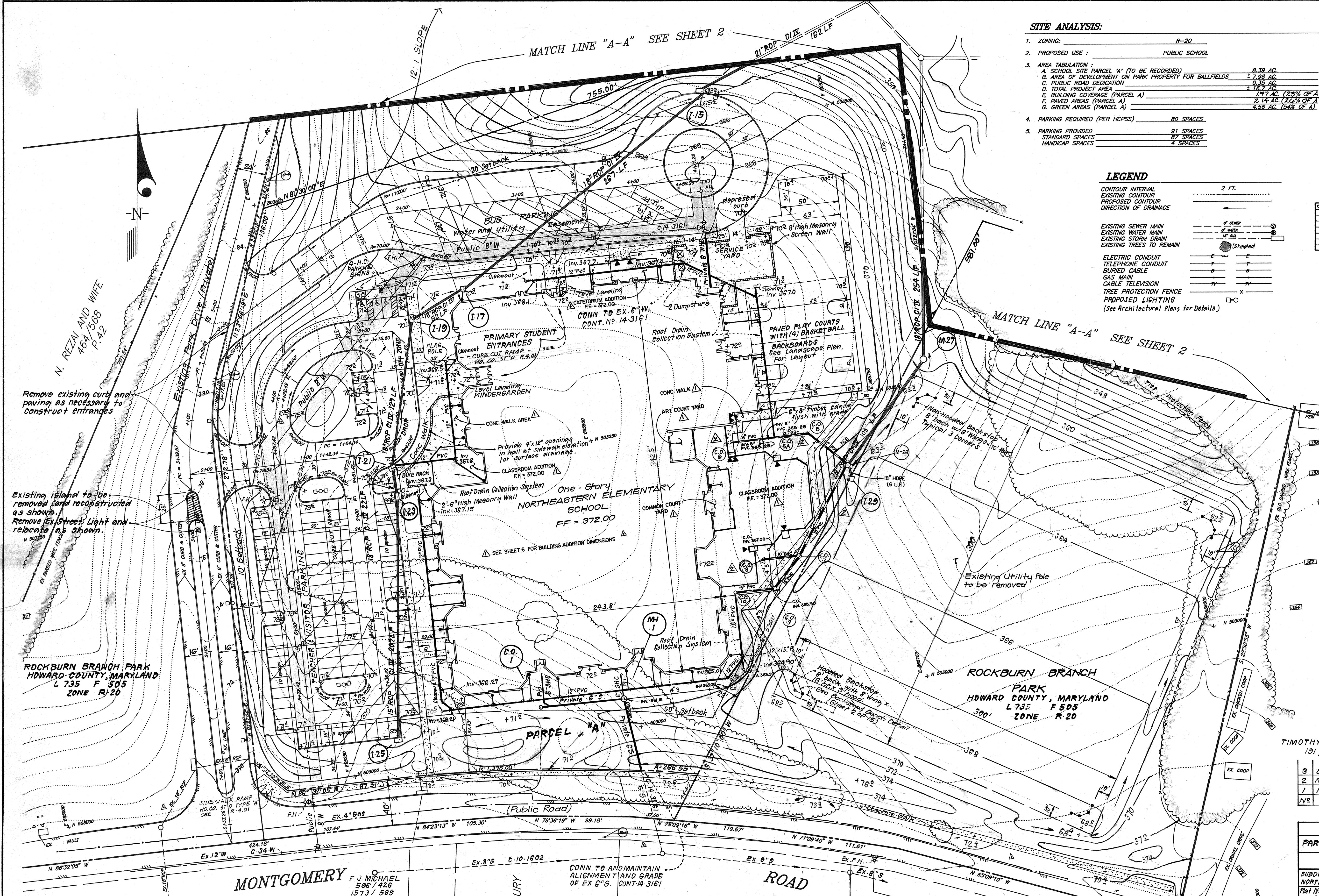
CAROLYN DAYSON
1654/462

MARCELA S. CUGLE
191/234

MICHAEL ELDEN
2009/24

[Signature]
2-12-92

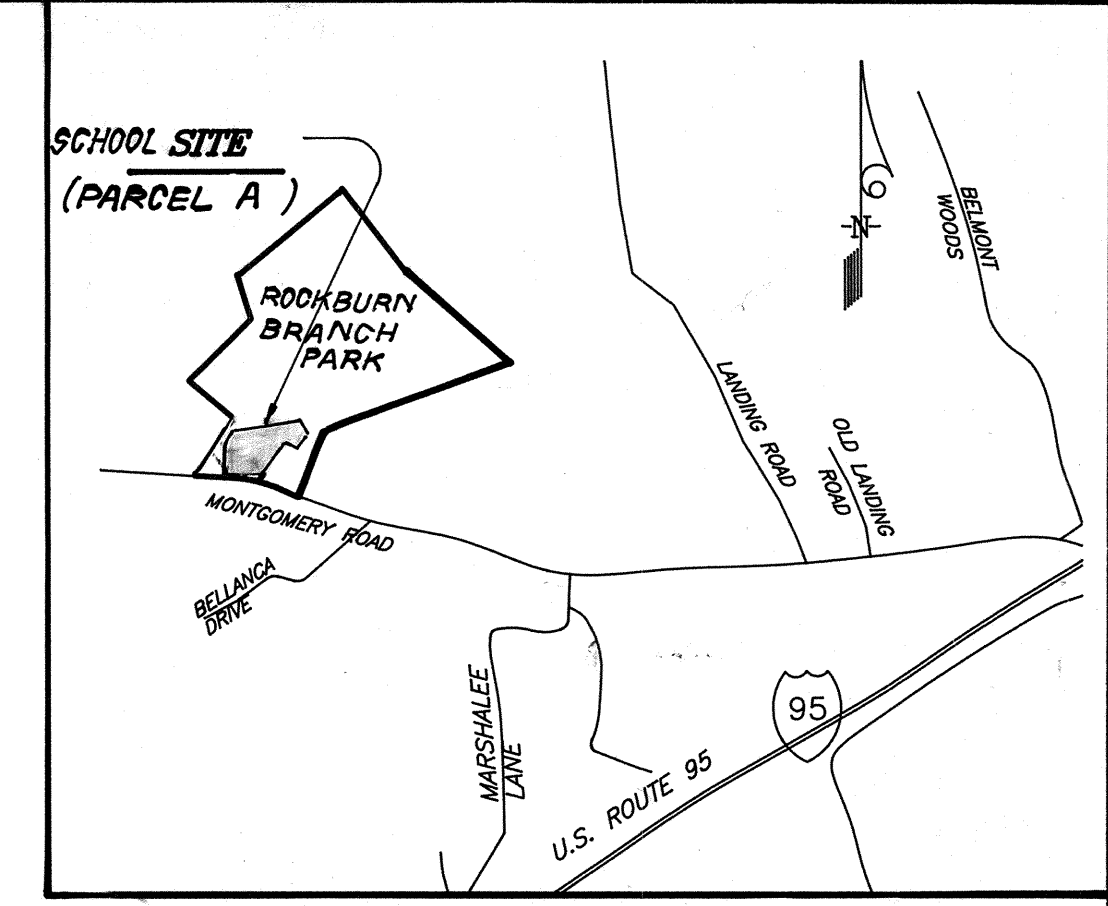
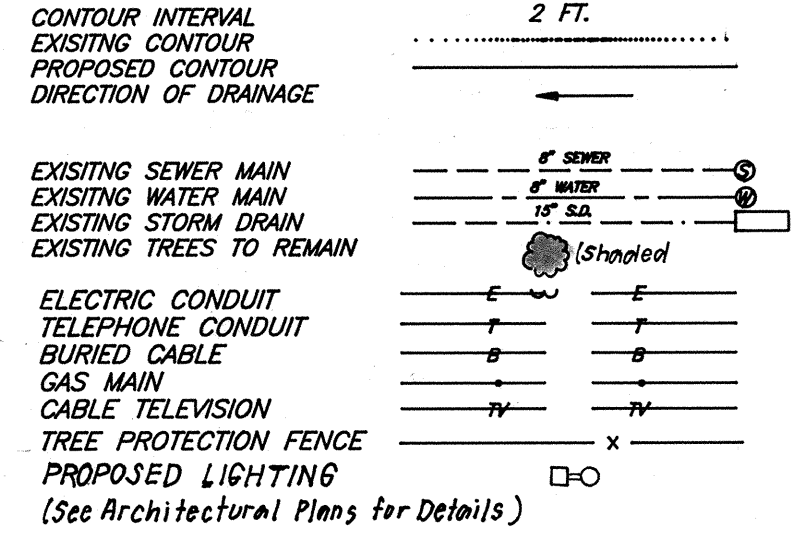
 CLARK • FINEROCK & SACKETT, INC. ENGINEERS • PLANNERS • SURVEYORS	
DESIGNED M.P.	SCALE 1"=40'
DRAWN M.P.	DRAWING 14 of 15
DATE 2-10-92	JOB NO. 71-113
<p>NORTHEASTERN ELEMENTARY SCHOOL PART OF LIBER 735 FOLIO 505 TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p> <p>FOR HOWARD COUNTY BOARD OF EDUCATION 10810 ROUTE 108 ELLCOTT CITY, MARYLAND 21043</p>	
FILE NO. 71-113-P	



SITE ANALYSIS:

- ZONING: R-20
- PROPOSED USE: PUBLIC SCHOOL
- AREA TABULATION:
 - A. SCHOOL SITE PARCEL "A" (TO BE RECORDED) 8.39 AC.
 - B. AREA OF DEVELOPMENT ON PARK PROPERTY FOR BALLFIELDS 7.96 AC.
 - C. PUBLIC ROAD DEDICATION 0.35 AC.
 - D. TOTAL PROJECT AREA 16.70 AC.
 - E. BUILDING COVERAGE (PARCEL A) 2.47 AC. (23% OF A)
 - F. PAVED AREAS (PARCEL A) 2.14 AC. (22% OF A)
 - G. GREEN AREAS (PARCEL A) 4.56 AC. (27% OF A)
- PARKING REQUIRED (PER HOPSS) 80 SPACES
- PARKING PROVIDED:
 - STANDARD SPACES 91 SPACES
 - HANDICAP SPACES 7 SPACES

LEGEND



GENERAL NOTES:

- COORDINATES ARE BASED ON THE MARYLAND STATE GRID SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS #2645002, & #2645003.
- TOPOGRAPHY WAS COMPILED FROM ACTUAL FIELD SURVEY.
- ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODES AND SPECIFICATIONS.
- NO WETLANDS ARE PRESENT AT THE PROJECT SITE, BASED ON A FIELD INSPECTION REPORT BY HOWARD SOIL CONSERVATION DISTRICT DATED OCTOBER 24, 1991.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF WORK AT 992-2417 OR 792-7272.
- CONTACT "MISS UTILITY" AT 559-0100 AT LEAST 24 HOURS BEFORE BEGINNING CONSTRUCTION.
- ALL EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS. CONTRACTOR MUST DIG TEST PITS AT ALL UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT LOCATION.
- PUBLIC WATER AND SEWER TO BE UTILIZED.
- INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL".
- HANDICAP PARKING DETAILS SHALL BE IN ACCORDANCE WITH THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED", SECTION 5.01-7.05.
- ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY HOWARD COUNTY BOARD OF EDUCATION.
- ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL SIDEWALKS SHALL BE CROSS SLOPED AT 1/4" FT. AWAY FROM THE BUILDING UNLESS OTHERWISE INDICATED.
- TRENCH BEDDING FOR STORM DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD G2.01, CLASS "C" BEDDING.
- GUTTER OF CURBS SHALL BE PITCHED TO CONFORM TO ADJACENT DRAINAGE PATTERNS.
- MAXIMUM PROPOSED GRADED SLOPE SHALL BE 3:1.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, DETAILS AND EXACT LOCATION OF SCREENING WALLS, CONCRETE PADS, FENCE ENCLOSURES, LANDINGS AND STEPS, PLAY COURTS, BIKE RACK, FLAG POLE.

REVISION	DESCRIPTION	DATE
1	RELOCATION OF ROOF DRAINS FOR THE CLASSROOM ADDITION	1/21/09
2	DESCRIPTION	
3	ADD CAFETERIUM AND CLASSROOM ADDITIONS, 8" MACADAM WALK, 4" SEWER & REVISE STORM DRAIN FOR M-27 TO I-27	7/17/03

TIMOTHY S. CUBLE
191 / 234

Professional Engineer

3	Extended Sidewalk to Playcourt	4-21-92
2	Rev. alignment & grading of 6" Sewer	4-8-92
1	Rev. Service Yard Openings & Added Backstop Bench Areas	4-8-92
N/A	REVISION	Date

ADDRESS CHART

PARCEL NO.	STREET ADDRESS
"A"	6165 MONTGOMERY ROAD

SUBDIVISION NAME: PARCEL "A" SECT./AREA: NA 235
 NORTH EASTERN ELEMENTARY SCH.
 Plat No. or L/F Block No. Zone Twp./Zone Mod. Ele. Dist. Pen. Instr. 10060 R-20 31 187 6th.01
 Water Code D-04 Sewer Code 2153800

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

4-29-92 DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

7/14/92 DATE

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

4-23-92 DATE

FRONT BUILDING ELEVATION

NO SCALE

ROBERT AMMESBURY 270/196 P.329

CAROLYN DAYSON 1654/462

MARCELLA B. CUGLE LOTS 1 AND 2 PLAT 6660

WALTER MAYER 1531/677

MICHAEL FIEDEN 2009/24

CLARK • FINEFROCK & SACKETT, INC.

ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: MJP
 DRAWN: BAL
 CHECKED: WHT
 DATE: Feb 10, 92

SITE DEVELOPMENT PLAN
 PARCEL A
 NORTHEASTERN ELEMENTARY SCHOOL

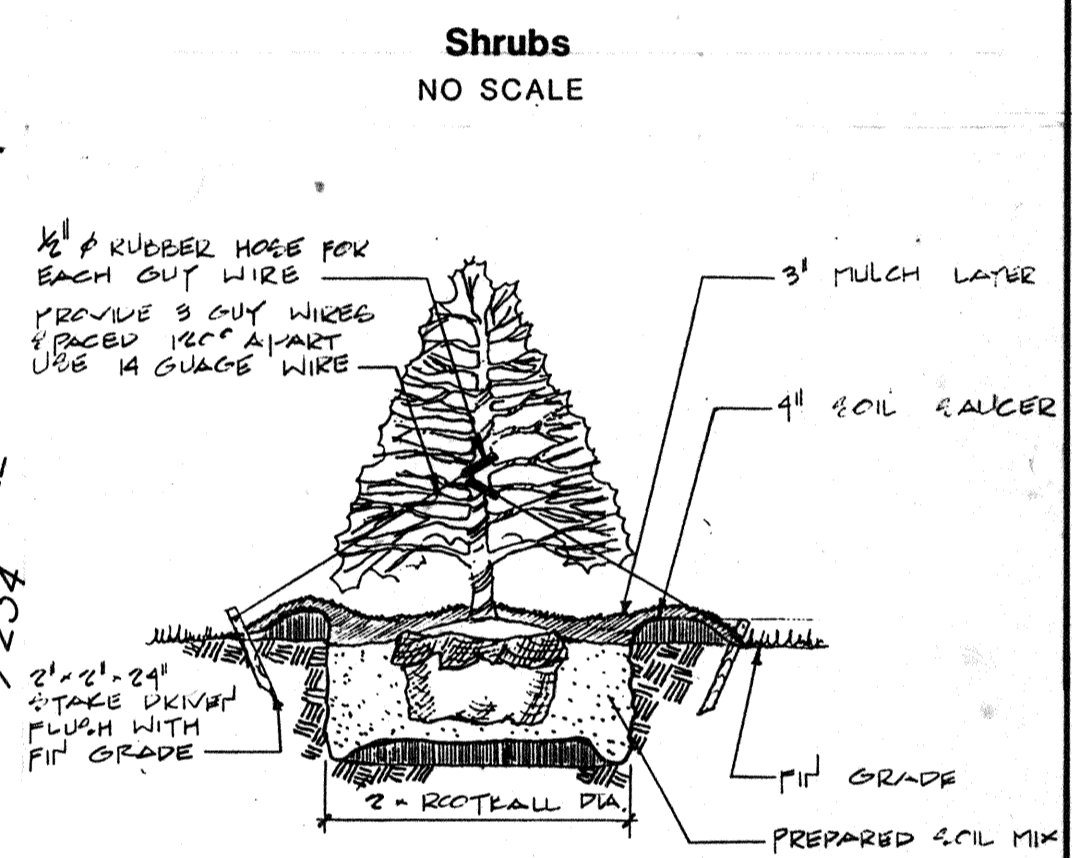
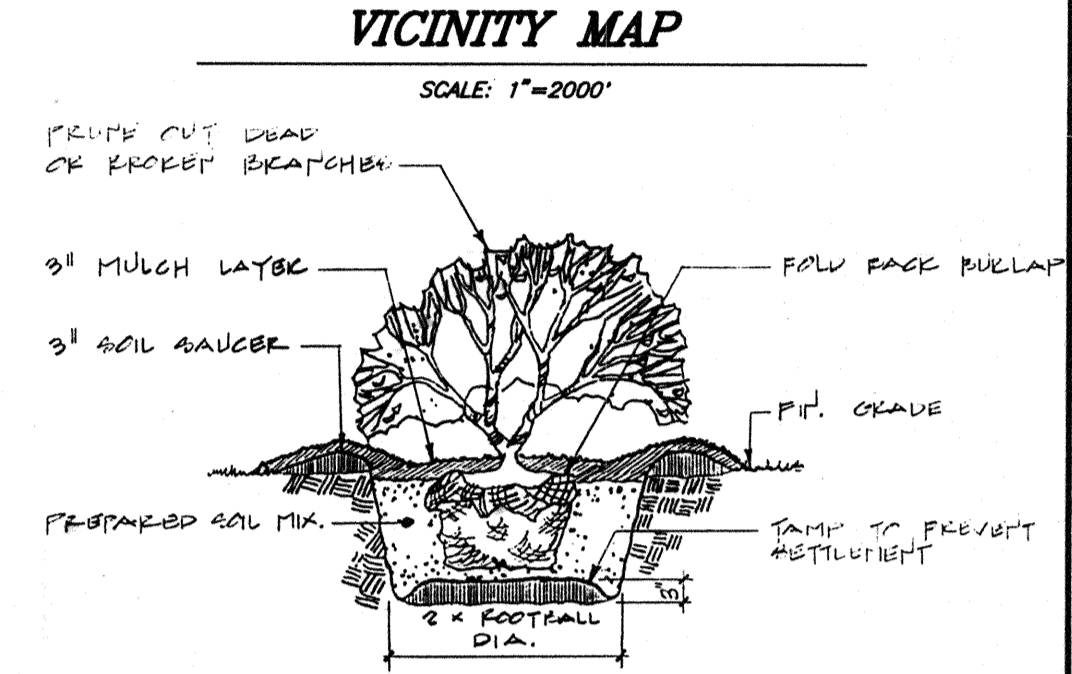
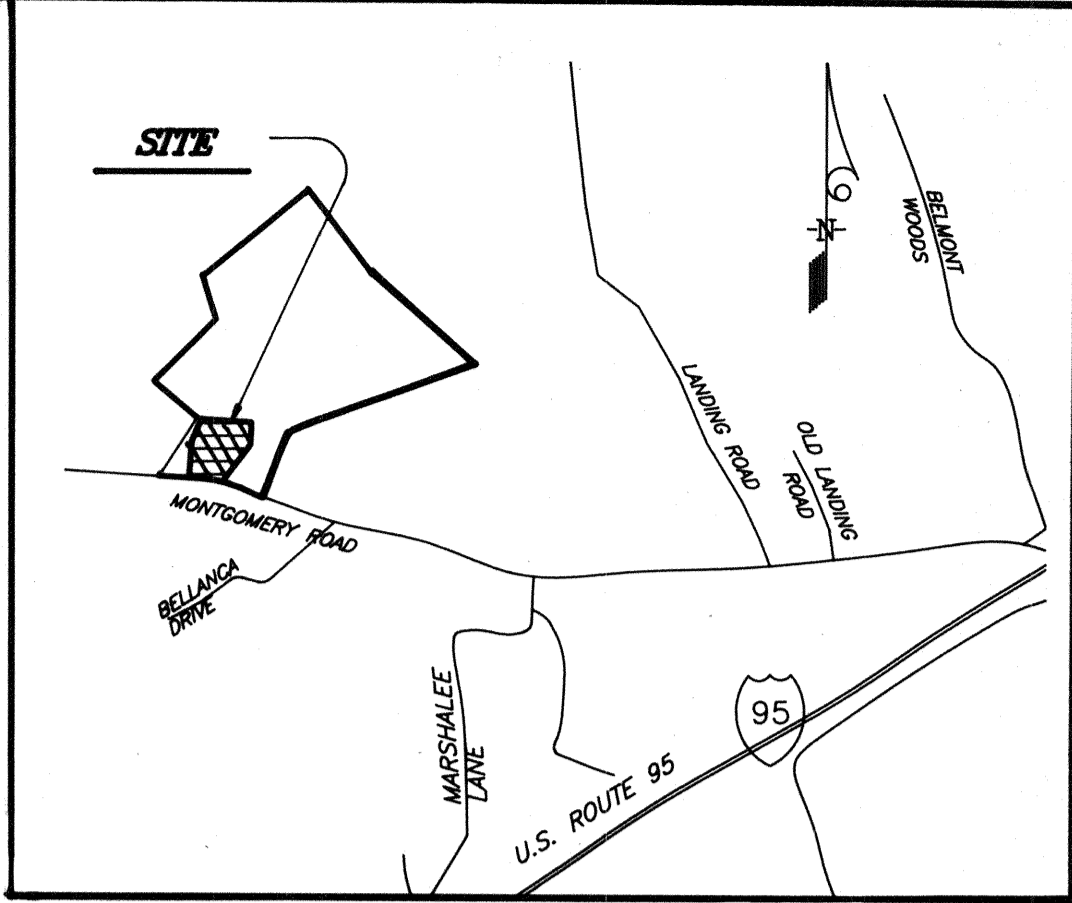
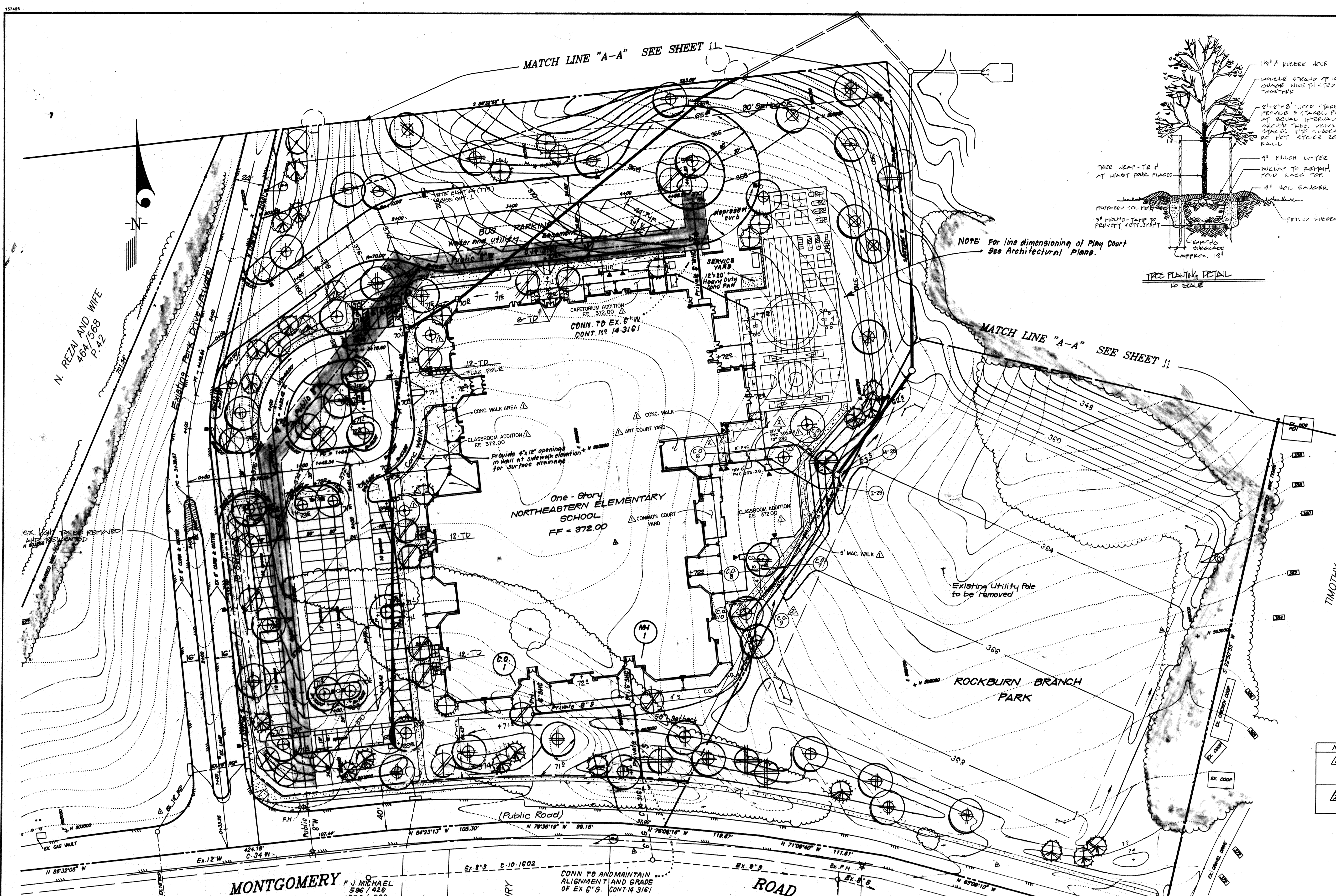
TAX MAP NO. 31 PART OF PARCEL 235
 1ST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

SCALE: 1"=40'
 DRAWING: 1 OF 15
 JOB NO.: 91-113
 FILE NO.: 91-113 X

SDP-92-58

MATCH LINE "A-A" SEE SHEET 11



Conifers
NO SCALE
FISHER, COLLINS AND CRANER INC.

Professional Engineer stamps for the State of Maryland, dated 7/17/03.

NO.	DESCRIPTION	DATE
1	ADD CAFETERIA AND CLASSROOM ADDITIONS, 5' MAC WALK, 4' SERVICE, REVISE STORM DRAIN FROM N-23 TO I-29 & REVISE LANDSCAPING AT CLASSROOM ADDITIONS.	7/17/03
2	RELOCATION OF ROOF DRAINS FOR THE CLASSROOM ADDITION.	1/28/09

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

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

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

Professional stamps and signatures for F.J. Michael, Robert Ammesbury, Carolyn Dayson, Marcella B. Cagle, Walter Mayer, and Michael Fieden.

CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH.

LANDSCAPE PLANTING PLAN

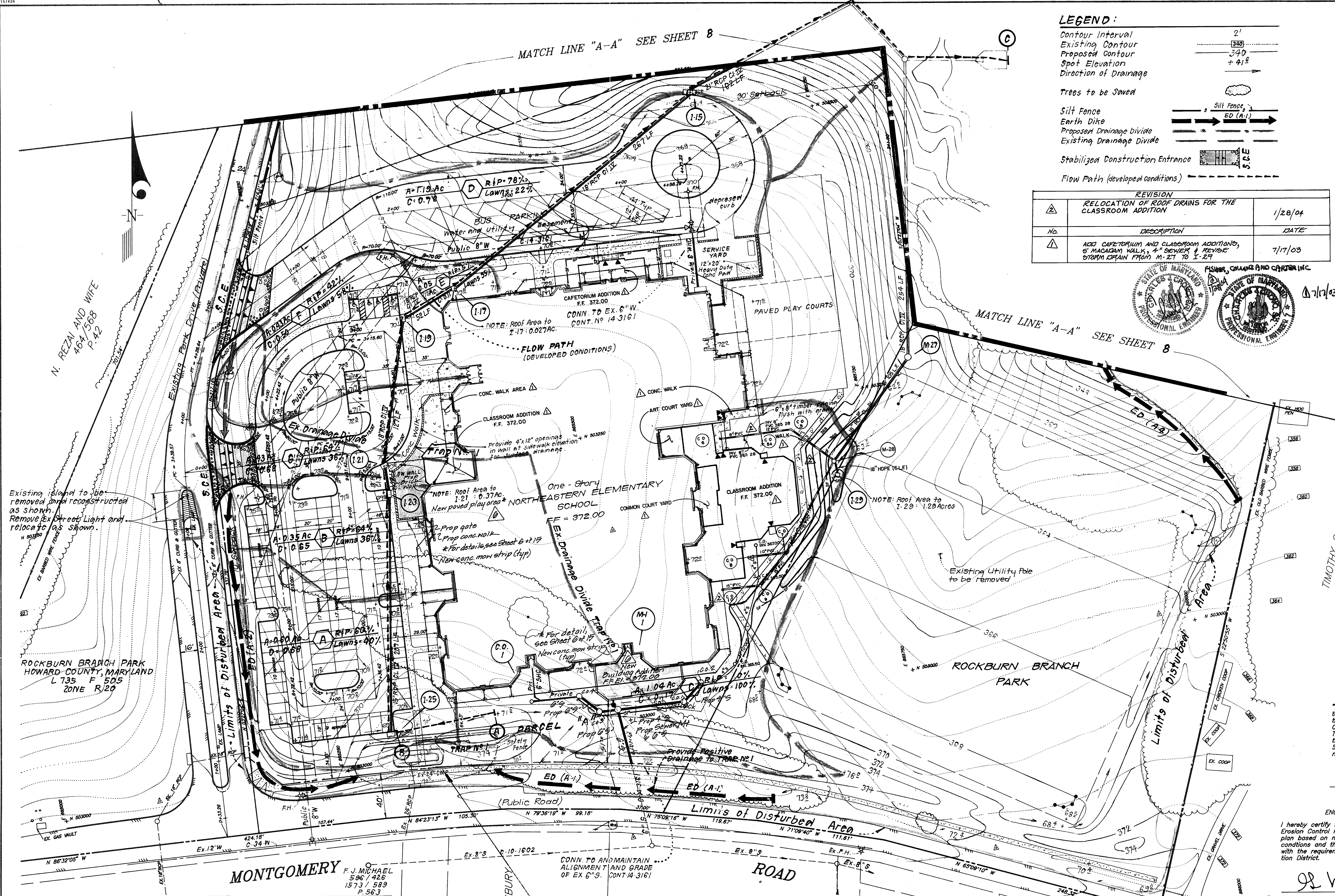
NORTHEASTERN ELEMENTARY SCHOOL

TAX MAP NO. 31 PART OF PARCEL 235
1ST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELICOTT CITY, MARYLAND 21043

DESIGNED: MJP
DRAWN: MJP
CHECKED: WHT
DATE: 2-10-92

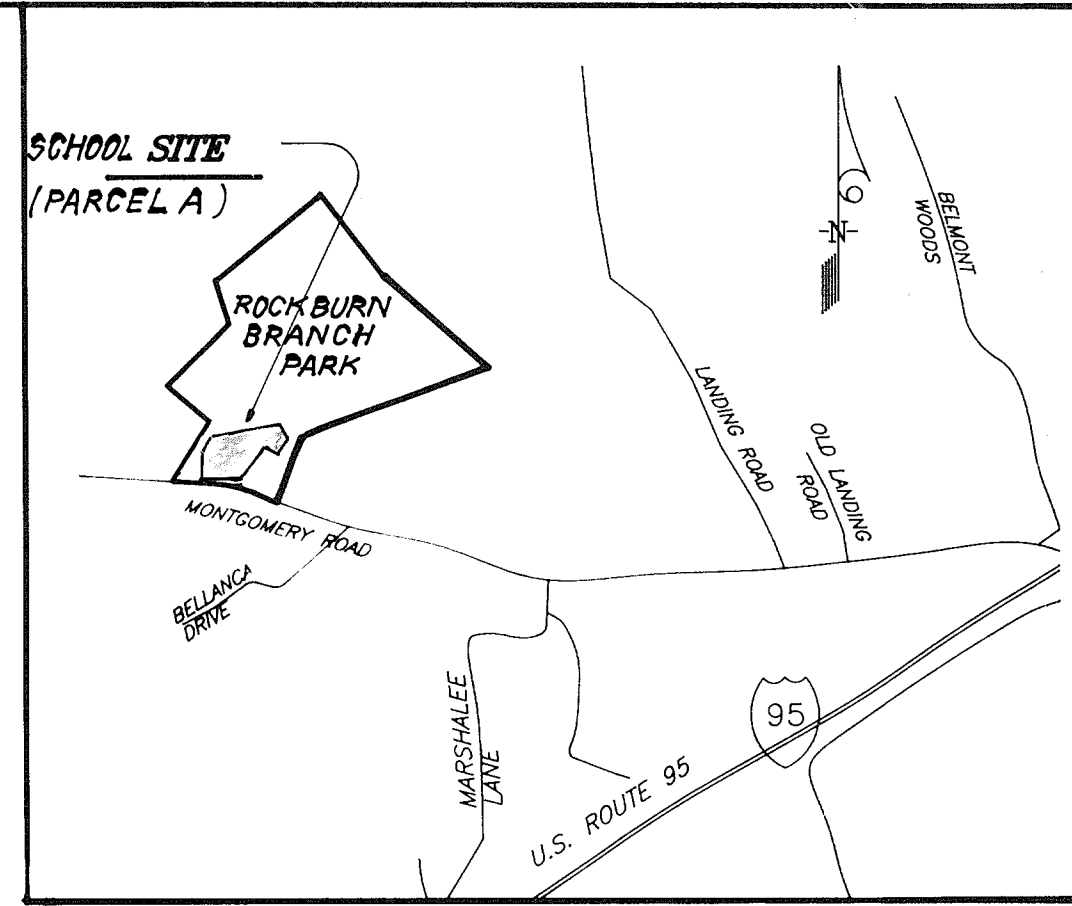
SCALE: 1" = 40'
DRAWING: 10 OF 15
JOB NO.: 91-113
FILE NO.: 91-113.15



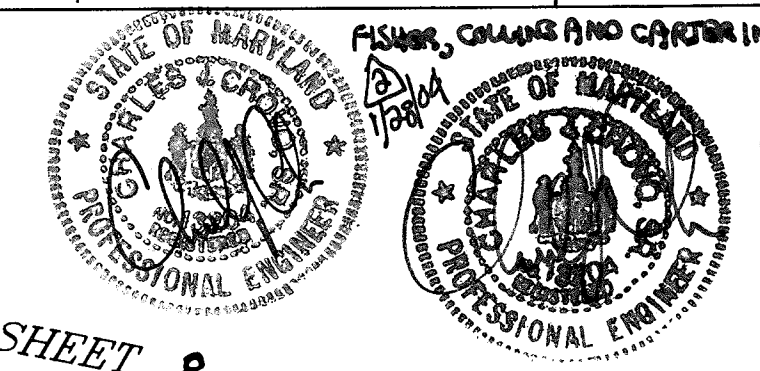
LEGEND:

- Contour Interval: 2'
- Existing Contour: [Symbol]
- Proposed Contour: [Symbol]
- Spot Elevation: +41.8
- Direction of Drainage: [Symbol]
- Trees to be Saved: [Symbol]
- Silt Fence: [Symbol]
- Earth Dike: [Symbol]
- Proposed Drainage Divide: [Symbol]
- Existing Drainage Divide: [Symbol]
- Stabilized Construction Entrance: [Symbol]
- Flow Path (developed conditions): [Symbol]

REVISION		DATE
1	RELOCATION OF ROOF DRAINS FOR THE CLASSROOM ADDITION	1/28/04
2	ADD CAFETERIUM AND CLASSROOM ADDITIONS, 2" MACADAM WALK, 4" SEWER & REVERSE STORM DRAIN FROM M-27 TO I-27	7/17/03



VICINITY MAP
SCALE: 1"=200'



Reviewed for: **HOWARD S.C.D.**
Name: **Howard S.C.D.**
Signature: **[Signature]** Date: **2/25/02**
US Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Approved: **[Signature]** Date: **2/25/02**

N. REZAI AND WIFE
464/568
P.42

Existing island to be removed and reconstructed as shown. Remove Ex Street Light and relocate as shown.

ROCKBURN BRANCH PARK
HOWARD COUNTY, MARYLAND
L 735 F 505
ZONE R20

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE: 3-6-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
DATE: 7/14/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DATE: 3/2/92

F. J. MICHAEL
596/426
1573/589
P.563

ROBERT AMMESBURY
270/196
P.329

CONN. TO AND MAINTAIN ALIGNMENT AND GRADE OF EX 6'S. CONT. 14-3161

CAROLYN DAYSON
1654/462

TRAP NO. 1 (P.O.S.T.) ST-1

Drainage Area	2.3 Acres
Storage Required	4140 CF
Storage Provided	6000 CF
Weir Crest Elev.	387.0
Clearout Elev.	364.5
Bottom Elev.	362.0
Depth	4.0
Riser Dia.	24"
Bottom Dimension	35' x 8'
Side Slopes	2:1 Max.

* NOTE: Riser to be connected to Ex 24" OMP Ex Inv Elev. 361.1



MARCELLA B. CUGLE
LOTS 1 AND 2
PLAT 6660

WALTER MAYER
1531/677

MICHAEL FIEDEN
2009/24

TIMOTHY S. CUGLE
191/234

VERNON EWALD
329/148

DEVELOPER'S/BUILDER'S CERTIFICATE
"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Cathleen Corley Young
Signature
11/10/01
Date

ENGINEER'S CERTIFICATE
I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
Signature: **[Signature]** Date: **11-15-91**



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ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED D.B.T.	SEDIMENT AND EROSION CONTROL PLAN AND DRAINAGE AREA MAP NORTHEASTERN ELEMENTARY SCHOOL PARCEL A TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=40'
DR. BY J.T.R.		DRAWING 7 OF 15
CHECKED D.B.T.		JOB NO. 91-113
DATE NOV. 1991		FILE NO. 91-113-51E

CONSTRUCTION SPECIFICATIONS FOR S.W.M. PONDS

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practices MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

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.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fence, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" (150mm) in diameter, and other objectionable material. Fill material for the center of the embankment and out of trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement - Areas on which fill 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 compacted 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.

Connection - 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 track track of the equipment or compaction shall be achieved by a minimum of four

complete 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.

Where a minimum required density is specified, it shall not be less than 95% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut Off 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 four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. It shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needed to fill completely all spaces under and adjacent to the pipe.

At no time during the backfilling operation shall driven equipment be allowed to operate closer than four 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" or greater over the structure or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe.

- Materials - (Steel Pipe) - The pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190.7, type A with weight coupling bands.

bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. The required degree of compaction shall have a minimum coating thickness of 0.11 inch (10 mil) on both sides of the pipe. The following coatings or an approved equal may be used: Necon, Plast-Coat, Black-Mat, and Best-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - The pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with weight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials - (Aluminum Pipe) - The pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with weight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be primed with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections. The pH of the surrounding soils shall be between 4 and 9.

Coupling bands, anti-seep collars, and sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around when the pipe and riser are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be rolled an adequate number of couplings to accommodate the band width. The following type connections are acceptable for pipes less than 48" in diameter: flanges on both ends with a 1/2" wide standard lap type band with 1/2" wide 3/16" thick closed cell circular neoprene gasket; and a 1/2" wide huggie type band with 6" long gaskets having a minimum diameter of 1/2" greater than the coupling depth. Pipes 48" in diameter and larger shall be connected by a 24" long annular corrugated band using rods and nuts. A 1/2" wide by 3/16" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24"

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe.

- Materials - Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-301. An approved equivalent is AWWA Specification C-302.
- Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.
- Laying pipe - Bell and spigot pipe shall be placed with the bell end 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 bedding 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.
- Backfilling shall conform to "Structure Backfilling".
- Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Helically corrugated pipe shall have either continuously welded seams or have lock seams.

Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soil, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.

Backfilling shall conform to "Structure Backfilling".

Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Concrete

Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 601, Mix No. 3.

Rock Risers

All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

- Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 68.

The riprap shall be placed to the required thickness in one operation. The rocks shall be delivered and placed in a manner that will cause the riprap to place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

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Care of Water during Construction

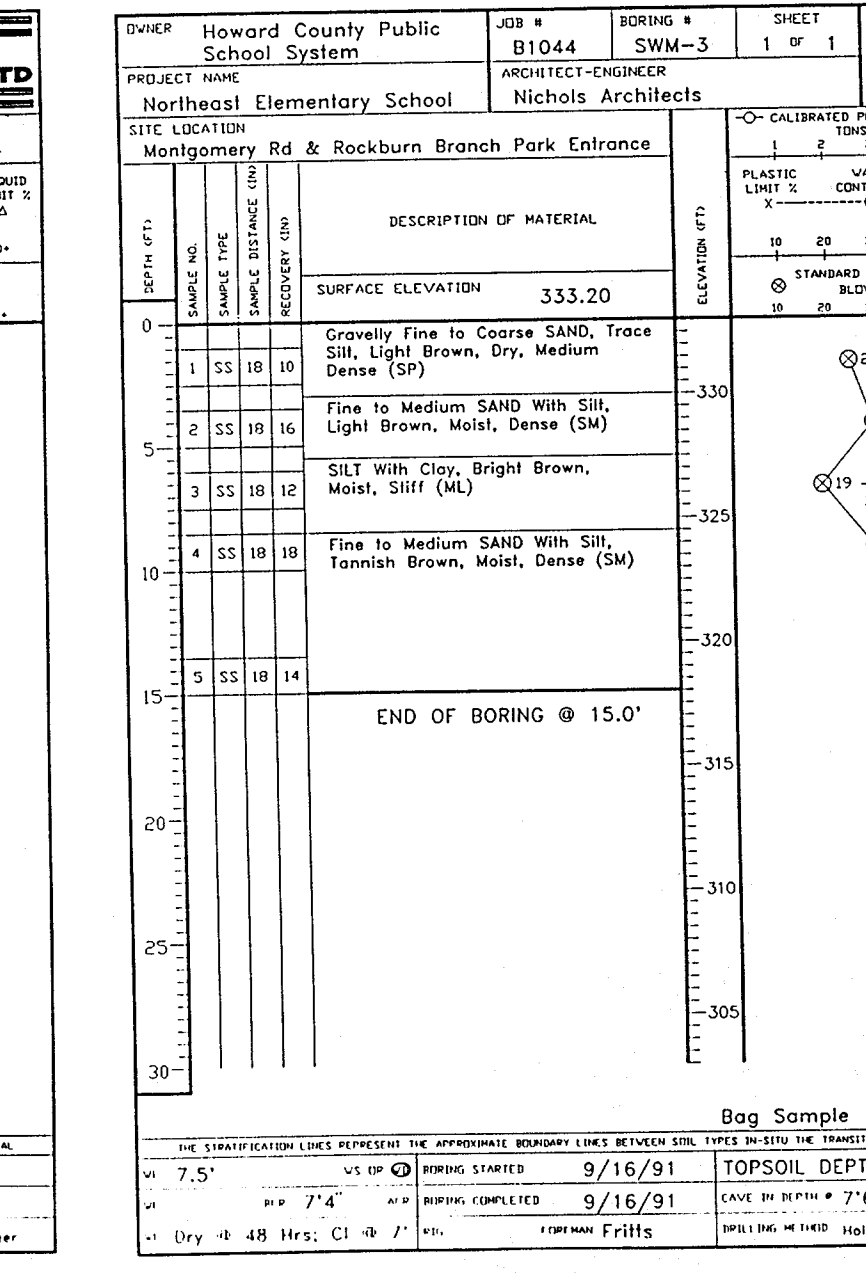
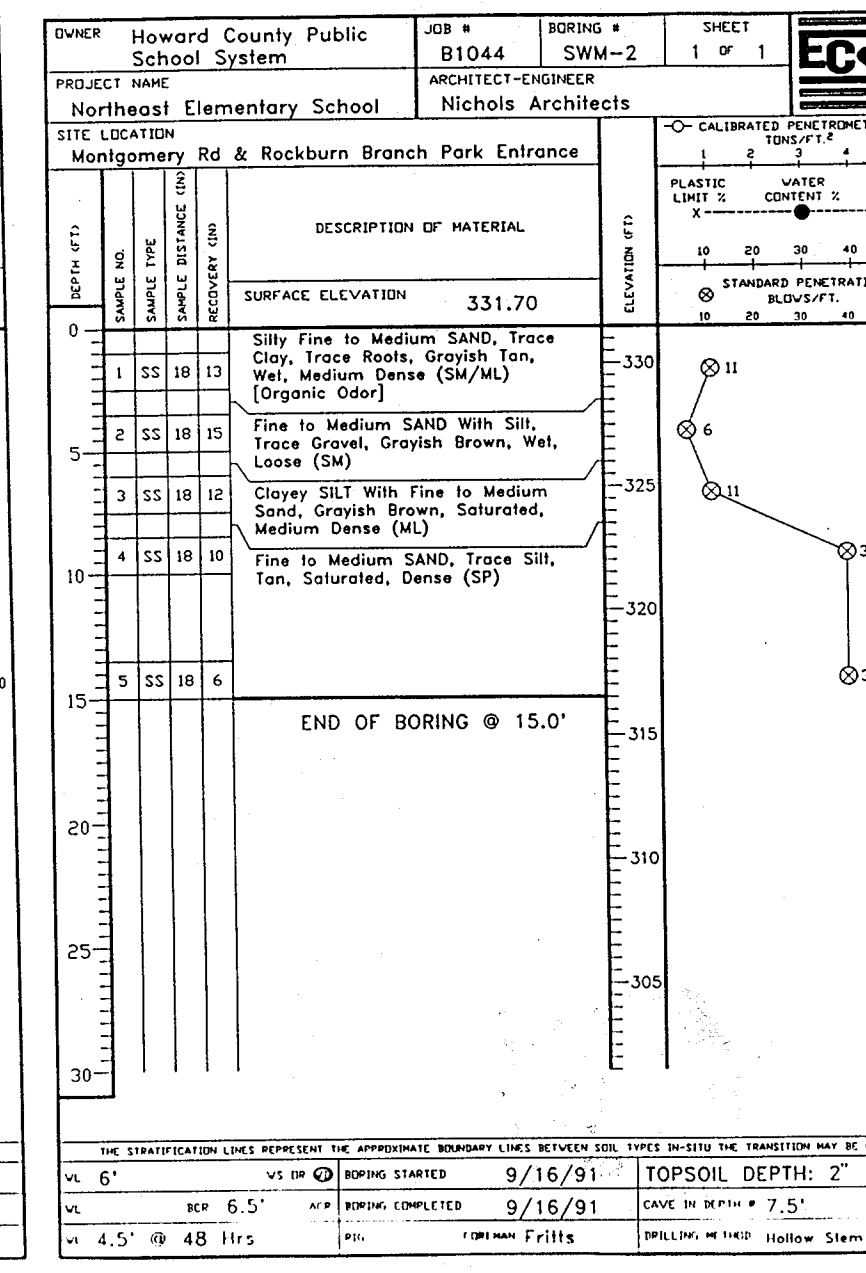
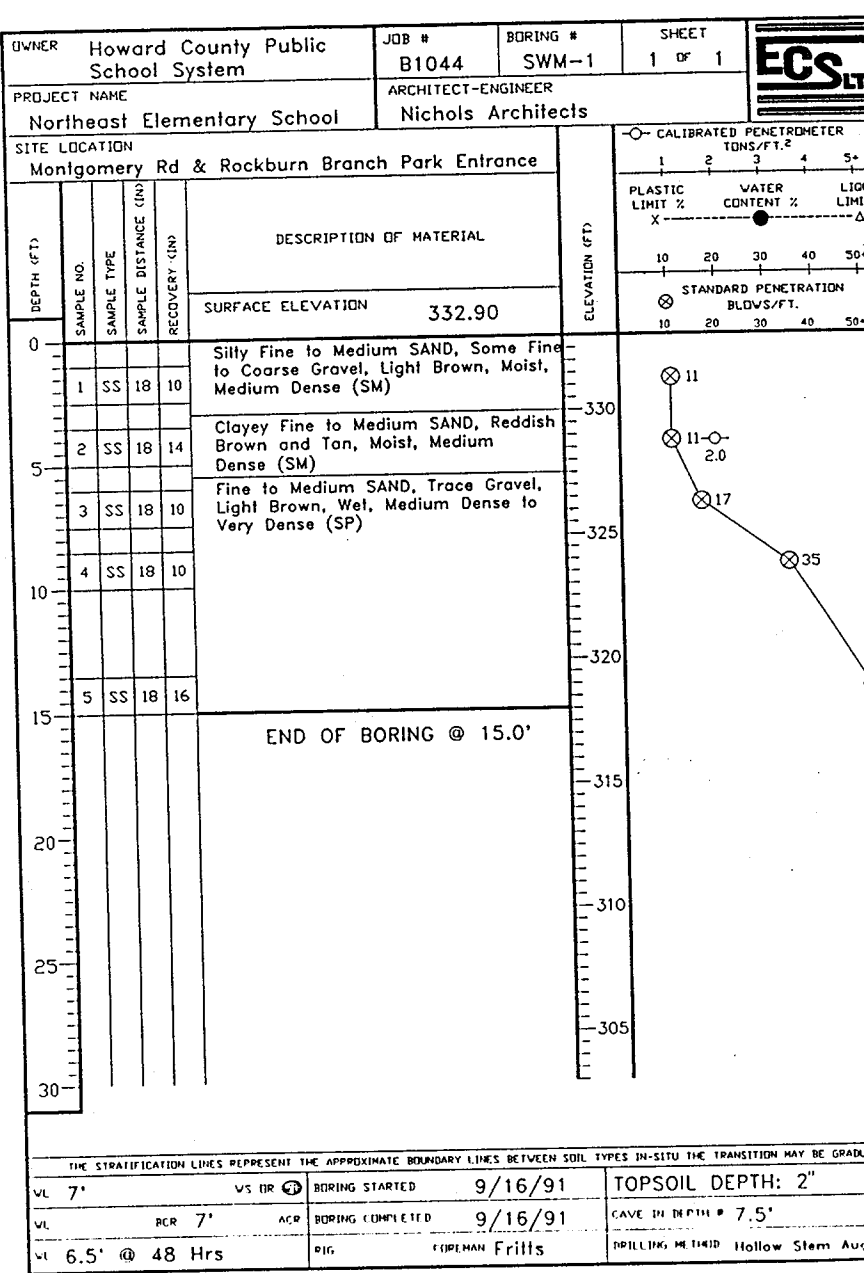
All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and maintain all temporary dikes, levees, cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, 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 such 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 retained shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

Stabilization

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spot and borrow areas, and berms shall be stabilized by seeding, liming, 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.

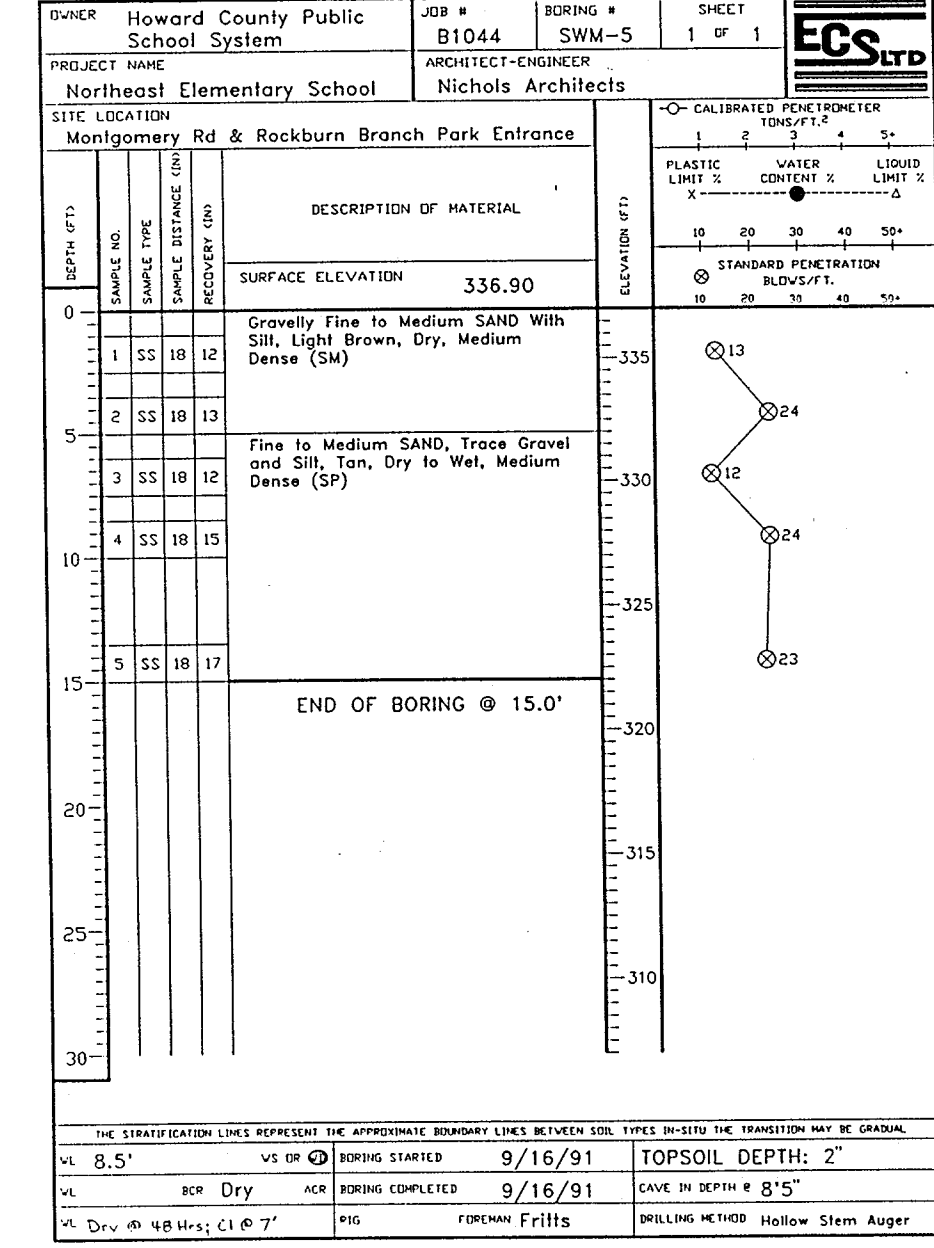
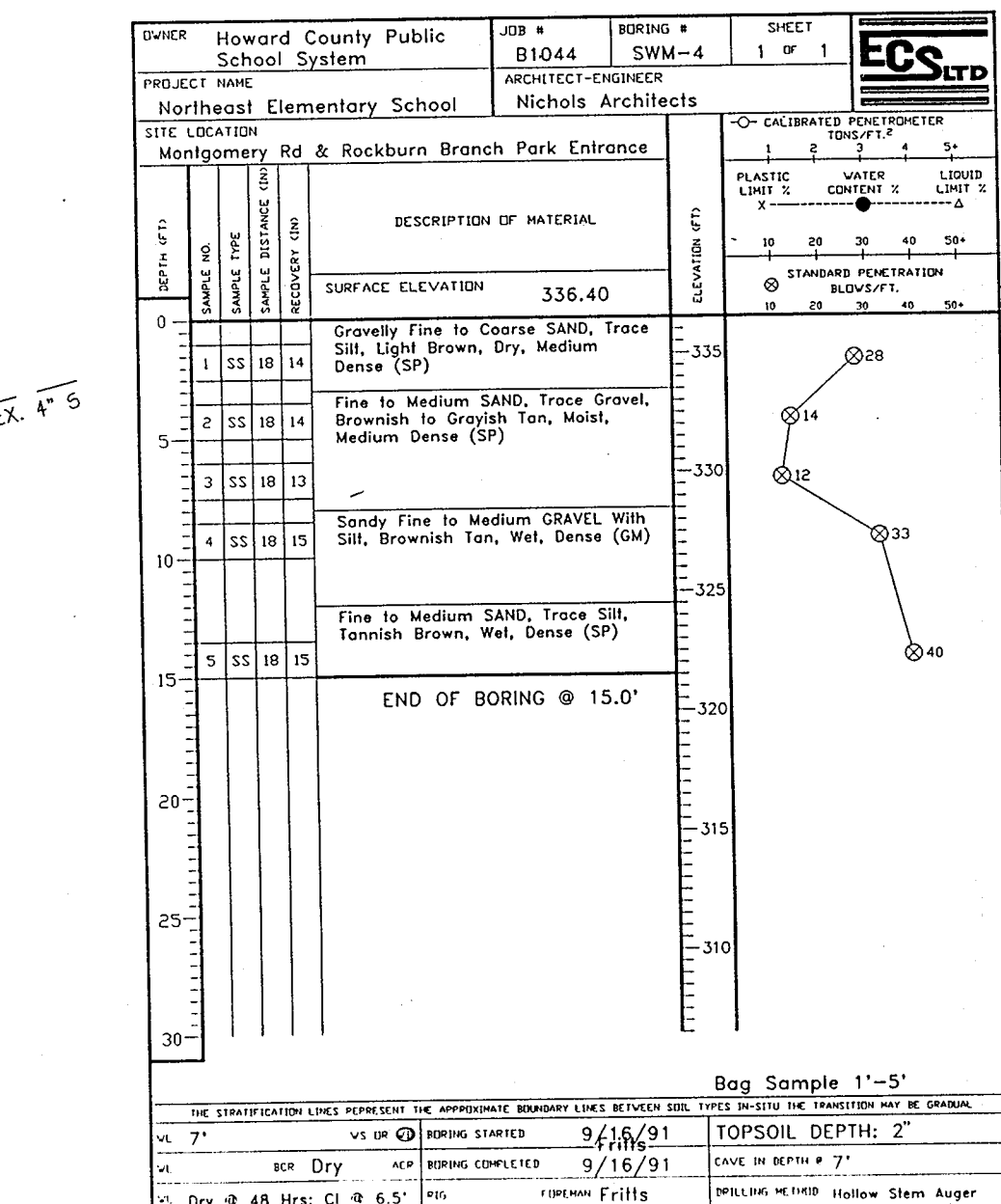
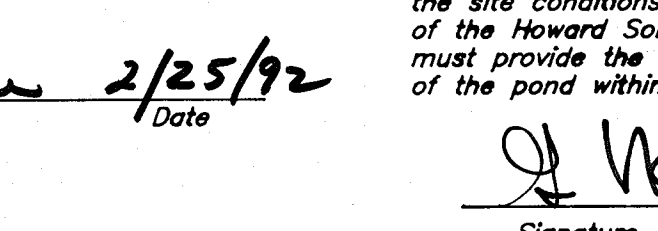
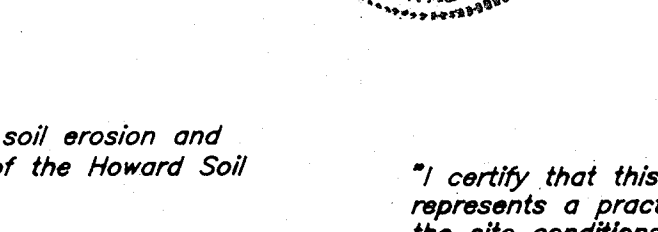
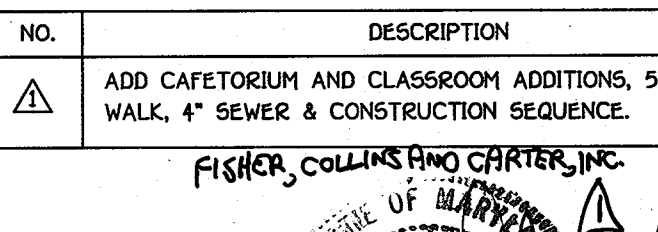
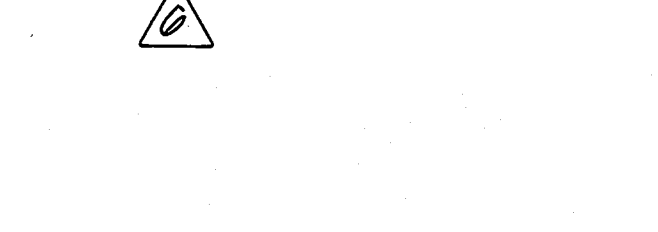
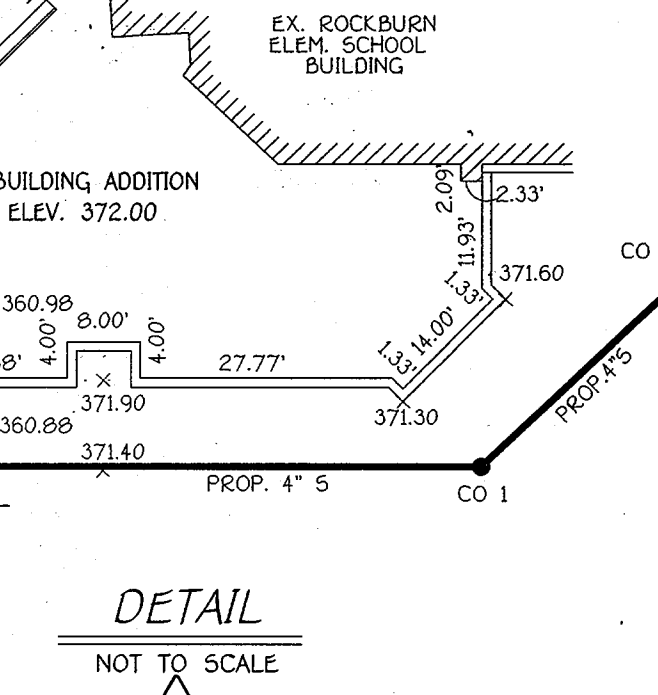
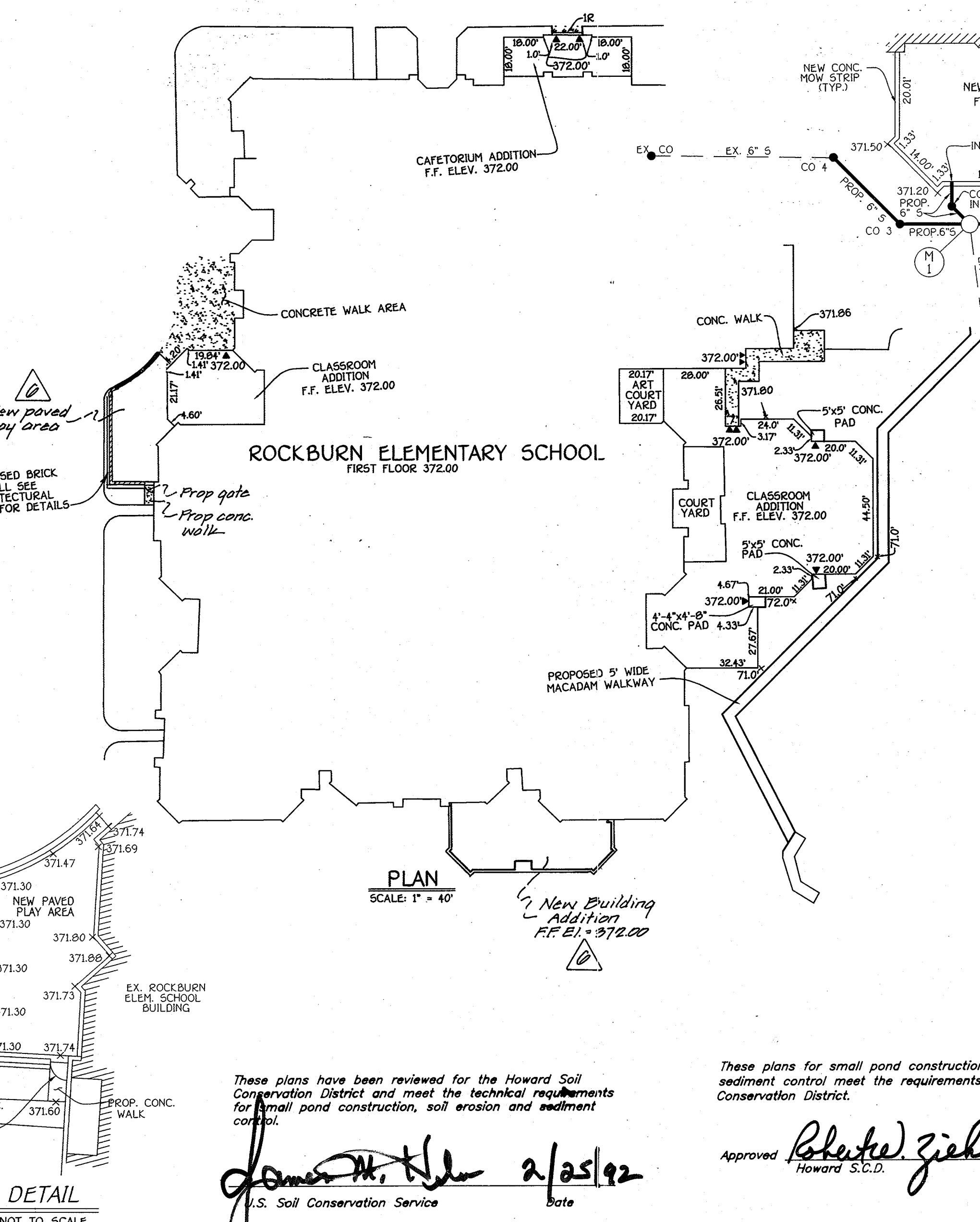
Erosion and Sediment Control

Construction operations will be carried out in such a manner that erosion will be controlled and water and air 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.



CONSTRUCTION SEQUENCE FOR BUILDING ADDITION

- 1) Obtain Grading Permit
- 2) 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 410-313-1330 24 hours before starting work.
- 3) Grade to subgrade building addition areas. Install sediment control measures shown on the plans. 2 weeks.
- 4) Relocate existing sewer line. 3 days.
- 5) Construct building addition and paved play area. 3 months.
- 6) Fine grade disturbed areas and stabilize with permanent seeding.
- 7) Notify Howard County Office of Construction/Inspection for permission for removal of sediment control measures and stabilize disturbed areas with permanent seeding.



SOIL BORINGS

NOTE: See Soils Report by Engineering Consulting Services, Ltd. dated October 7, 1991.

DEVELOPER'S CERTIFICATION

"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 Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with "As Built" plan of the pond within 30 days of completion. I will also authorize periodic on-site inspections by the Howard Soil Conservation District."

Cathleen Conley Young 11/14/91
Signature of Developer Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT: *[Signature]* 3-2-92 DATE

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING: *[Signature]* 7/14/92 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: *[Signature]* 3-2-92 DATE

These plans have been reviewed for the Howard Soil Conservation District and meet the technical requirements for small pond construction, soil erosion and sediment control.
[Signature] 2/25/92
S.S. Soil Conservation Service Date

These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.
Approved *[Signature]* 2/25/92 Date
Howard S.C.D.

"I certify that this plan for pond construction, erosion, and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions. This plan was prepared in accordance with the requirements of the Howard Soil Conservation District. I have notified the developer that he must provide the Howard Soil Conservation District with a red lined "As Built" plan of the pond within 30 days of completion."
[Signature] 12-3-91 Date
Signature of Engineer Date



CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED: R.J.S. SCALE: AS SHOWN
DRAWN: J.T.R. SCALE: 6 OF 15
CHECKED: R.J.S. JOB NO. 91-113
DATE: Feb 10, 92 FILE NO. 91-113-X

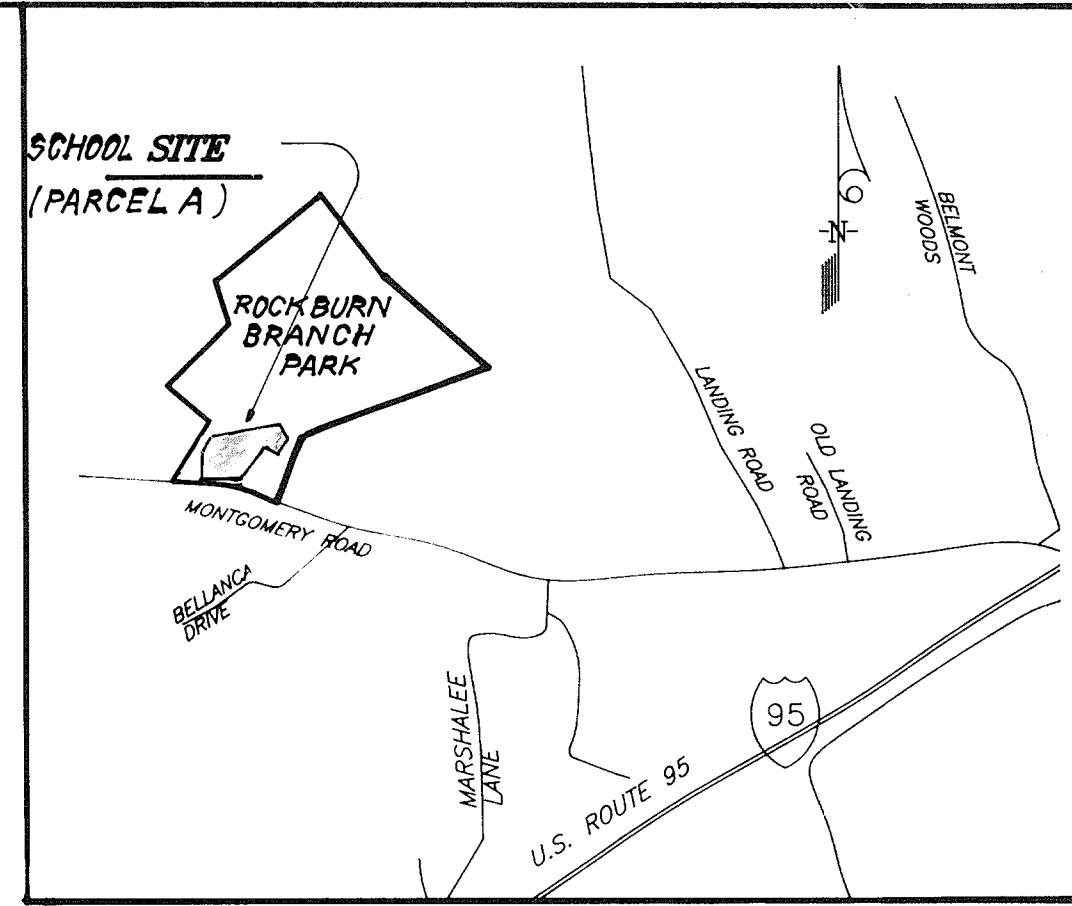
FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 140
ELLCOTT CITY, MARYLAND 21043

STPM 92-58

MATCH LINE "A-A" SEE SHEET 8

LEGEND:

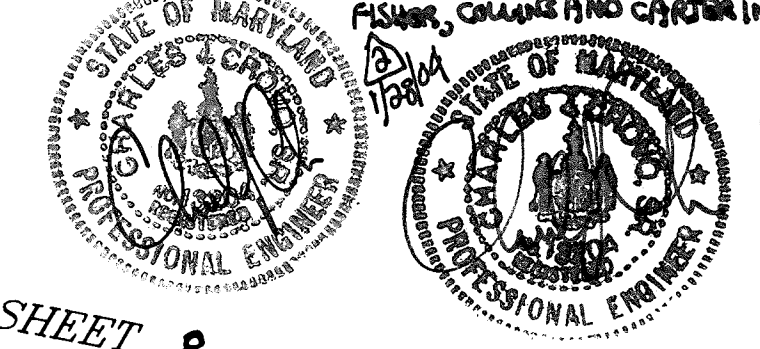
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- Existing Contour: [Symbol]
- Proposed Contour: [Symbol]
- Spot Elevation: +41.8
- Direction of Drainage: [Symbol]
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- Silt Fence: [Symbol]
- Earth Dike: [Symbol]
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- Stabilized Construction Entrance: [Symbol]
- Flow Path (developed conditions): [Symbol]



VICINITY MAP

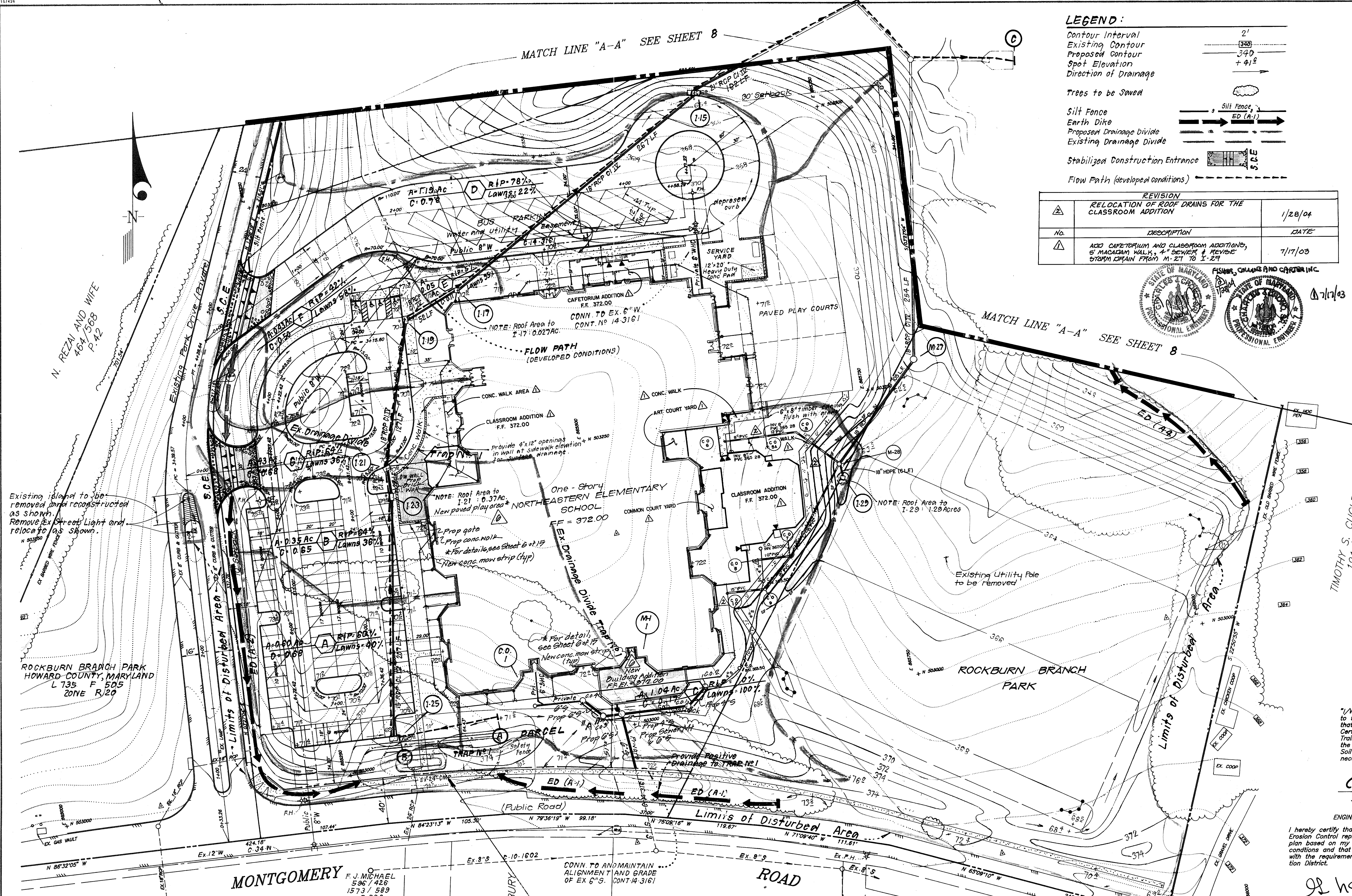
SCALE: 1"=2000'

REVISION		DATE
1	RELOCATION OF ROOF DRAINS FOR THE CLASSROOM ADDITION	1/28/04
2	ADD CAFETERIUM AND CLASSROOM ADDITIONS, 2" MACADAM WALK, 4" SERVICE & REVERSE STORM DRAIN FROM M-27 TO I-27	7/17/03



Reviewed for HOWARD S.C.D. Name
 and meets Technical Requirements
 Signature Date
 US Soil Conservation Service

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



N. REZAI AND WIFE
 464/568
 P. 42

ROCKBURN BRANCH PARK
 HOWARD COUNTY, MARYLAND
 L 735 F 505
 ZONE R20

TIMOTHY S. CUGLE
 191/234

VERNON EWALD
 329/148

DEVELOPER'S/BUILDER'S CERTIFICATE

"I/We certify that all development and construction will be done according to this plan of development and plan for sediment and erosion control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary."

Signature: Cathleen Conley Young
 Date: 11/10/01

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature: [Signature]
 Date: 11-15-91



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS,
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 3-6-92

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING
 DIRECTOR: [Signature] DATE: 7/14/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
 STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 3/2/92

F. J. MICHAEL
 596/426
 1573/589
 P. 563

ROBERT AMMESBURY
 270/196
 P. 329

CAROLYN DAYSON
 1654/462

TRAP NO. 1 (P.O.S.T.) ST-1

Drainage Area	2.3 Acres
Storage Required	4140 CF
Storage Provided	6000 CF
Weir Crest Elev.	387.0
Clearout Elev.	364.5
Bottom Elev.	362.0
Depth	4.0
* Riser Dia.	24"
Bottom Dimension	35' x 8'
Side Slopes	2:1 Max.

* NOTE: Riser to be connected to Ex 24" OMP Ex Inv Elev. 361.1



MARCELLA B. CUGLE
 LOTS 1 AND 2
 PLAT 6660

WALTER MAYER
 1531/677

MICHAEL FIEDEN
 2009/24

No.	Revision	Date
1	Add building addition, paved play area, sewer manhole, sewer line & silt fence.	9-30-96

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 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

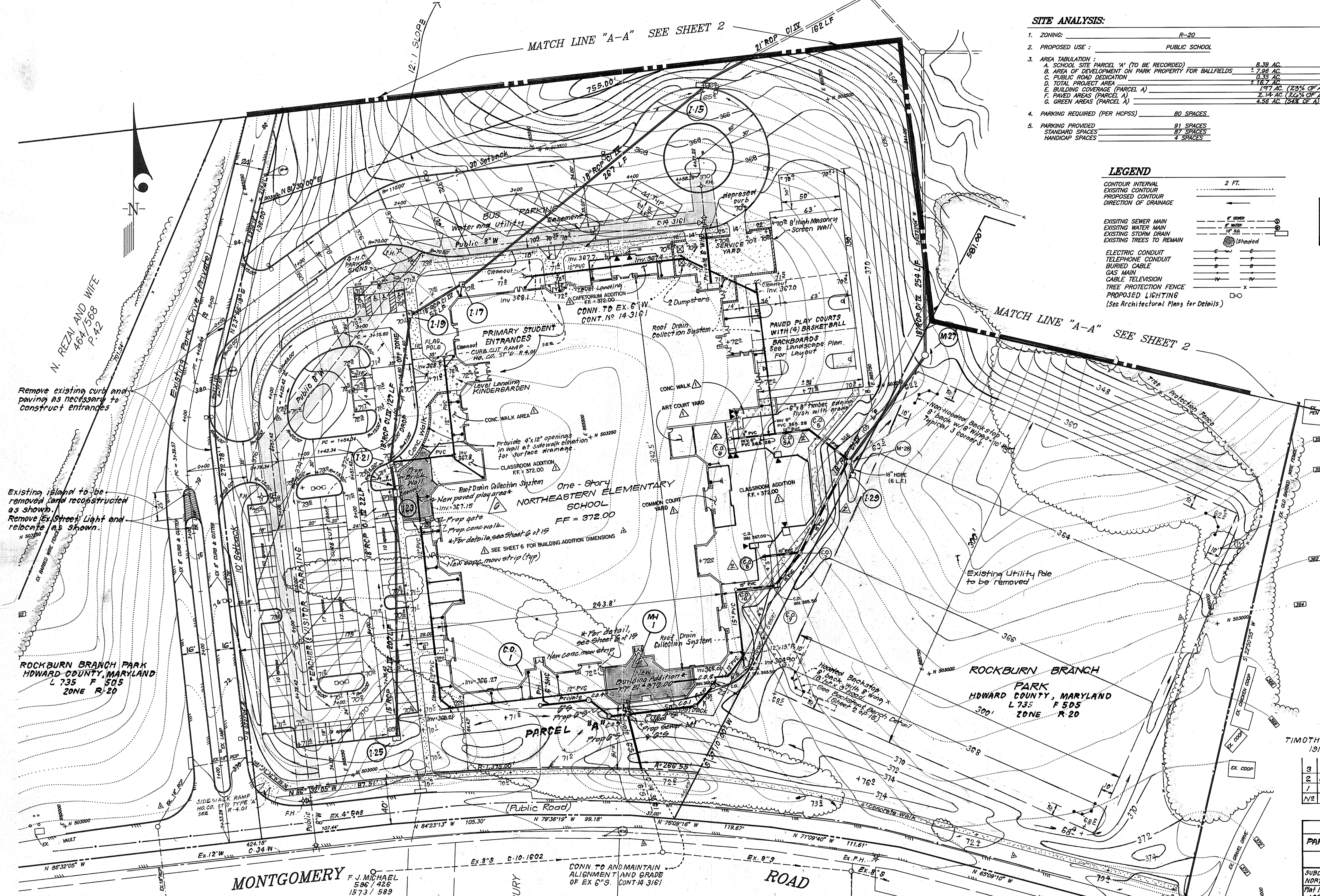
DESIGNED: D.B.T. SCALE: 1"=40'

DR. PLAN: J.V.R. DRAWING: 7 OF 15

CHECKED: D.B.T. JOB NO.: 91-113

DATE: NOV. 1991 FILE NO.: 91-113-51E

FOR: HOWARD COUNTY BOARD OF EDUCATION
 10910 ROUTE 1108
 ELLICOTT CITY, MARYLAND 21043

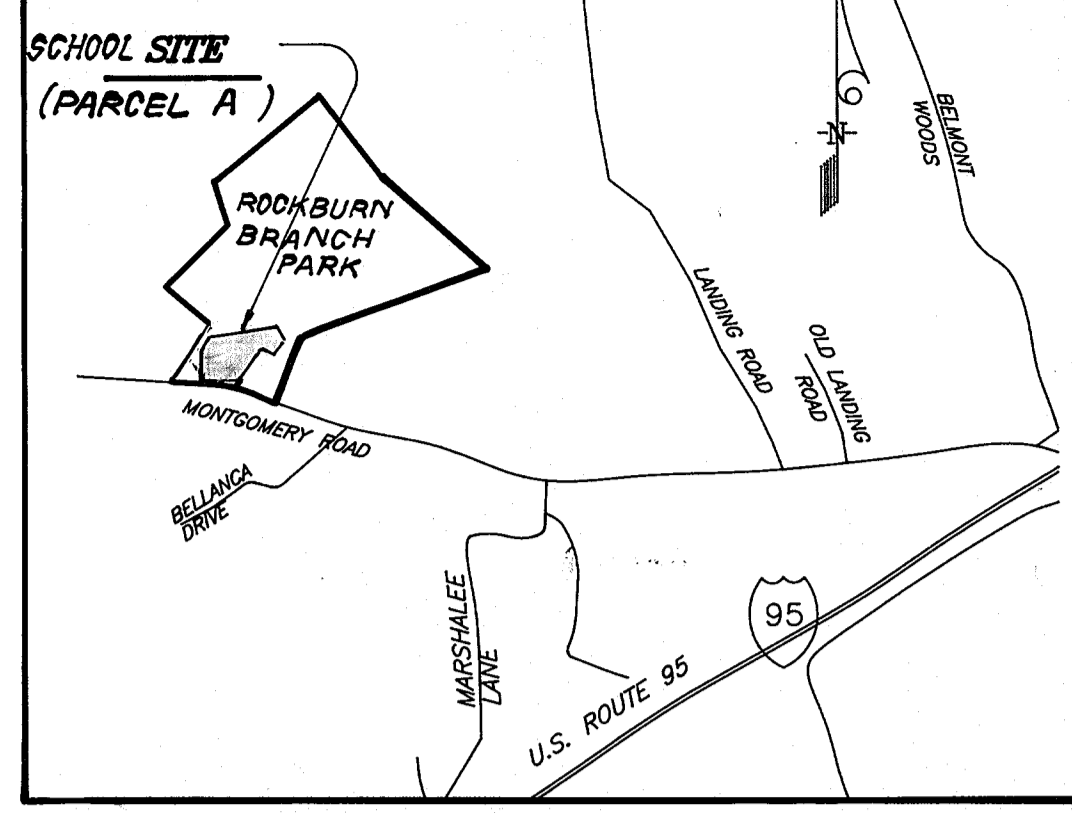


SITE ANALYSIS:

1. ZONING:	R-20
2. PROPOSED USE:	PUBLIC SCHOOL
3. AREA TABULATION:	
A. SCHOOL SITE PARCEL 'A' (TO BE RECORDED)	8.39 AC.
B. AREA OF DEVELOPMENT ON PARK PROPERTY FOR BALLFIELDS	2.98 AC.
C. PUBLIC ROAD DEDICATION	0.35 AC.
D. TOTAL PROJECT AREA	11.72 AC.
E. BUILDING COVERAGE (PARCEL A)	1.77 AC. (25% OF A)
F. PAVED AREAS (PARCEL A)	2.14 AC. (23% OF A)
G. GREEN AREAS (PARCEL A)	6.58 AC. (56% OF A)
4. PARKING REQUIRED (PER HCPSS)	80 SPACES
5. PARKING PROVIDED	91 SPACES
STANDARD SPACES	87 SPACES
HANDICAP SPACES	4 SPACES

LEGEND

CONTOUR INTERNAL	2 FT.
EXISTING CONTOUR	
PROPOSED CONTOUR	
DIRECTION OF DRAINAGE	
EXISTING SEWER MAIN	
EXISTING WATER MAIN	
EXISTING STORM DRAIN	
EXISTING TREES TO REMAIN	(Shaded)
ELECTRIC CONDUIT	
TELEPHONE CONDUIT	
BURIED CABLE	
GAS MAIN	
CABLE TELEVISION	
TREE PROTECTION FENCE	
PROPOSED LIGHTING	



GENERAL NOTES:

- COORDINATES ARE BASED ON THE MARYLAND STATE GRID SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS #2645002, & #2645003.
- TOPOGRAPHY WAS COMPILED FROM ACTUAL FIELD SURVEY.
- ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODES AND SPECIFICATIONS.
- NO WETLANDS ARE PRESENT AT THE PROJECT SITE, BASED ON A FIELD INSPECTION REPORT BY HOWARD SOIL CONSERVATION DISTRICT DATED OCTOBER 24, 1981.
- THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF WORK AT 982-2417 OR 792-7272.
- CONTACT "MISS UTILITY" AT 539-0100 AT LEAST 24 HOURS BEFORE BEGINNING CONSTRUCTION.
- ALL EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS. CONTRACTOR MUST DIG TEST PITS AT ALL UTILITY CROSSINGS AND CONNECTION POINTS TO VERIFY EXACT LOCATION.
- PUBLIC WATER AND SEWER TO BE UTILIZED.
- INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL".
- HANDICAP PARKING DETAILS SHALL BE IN ACCORDANCE WITH THE "MARYLAND BUILDING CODE FOR THE HANDICAPPED", SECTION 5.01-7.05.
- ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY HOWARD COUNTY BOARD OF EDUCATION.
- ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL SIDEWALKS SHALL BE CROSS SLOPED AT 1/4" FT. AWAY FROM THE BUILDING UNLESS OTHERWISE INDICATED.
- TRENCH BEDDING FOR STORM DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD GZ.01, CLASS "C" BEDDING.
- GUTTER OF CURBS SHALL BE PITCHED TO CONFORM TO ADJACENT DRAINAGE PATTERNS.
- MAXIMUM PROPOSED GRADED SLOPE SHALL BE 3:1.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, DETAILS AND EXACT LOCATION OF SCREENING WALLS, CONCRETE PADS, FENCE ENCLOSURES, LANDINGS AND STEPS; PLAY COURTS; BIKE RACK; FLAG POLE

REVISION	DATE
RELOCATION OF ROOF DRAINS FOR THE CLASSROOM ADDITION.	1/25/09
ADD CAFETERIUM AND CLASSROOM ADDITIONS, 8' MACADAM WALK, 4" SEWER & REVISE STORM DRAIN FOR "M-27 TO I-27"	7/17/03

No.	DESCRIPTION	DATE
3	Extended Sidewalk to Playcourt	4-24-92
2	Rev. alignment & grading of 6" Sewer	4-8-92
1	Rev. Service Yard Openings & Added Backstop Bench Areas	4-8-92
N2	REVISION	Date

PARCEL NO.	STREET ADDRESS
"A"	6165 MONTGOMERY ROAD

SUBDIVISION NAME: PARCEL "A" SECT./AREA: NA 2.35
 PARCEL NO.: 235
 NORTHEASTERN ELEMENTARY SCH.
 Plat No. or L/F: 10-26-00 Block No.: R-20 Trk./Zone Map: E.C. Dist.: 31 1st. plat. no.:
 Water Code: D-04 Sewer Code: 2153800

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

Joselyn B. Jones 4-29-92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPT. OF PLANNING & ZONING

James K. Kelly 7/14/92
DIRECTOR DATE

William J. Small 7/14/92
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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

James R. Linn 4-23-92
DIRECTOR DATE

James R. Linn 4-23-92
CHIEF BUREAU OF ENGINEERING DATE



CAROLYN DAYSON 1654/462

ROBERT AMMESBURY 270/196 P.329

MARCELLA B. CUGLE 7135/1010 P.6660

WALTER MAYER 1531/677

MICHAEL FIEDEN 2009/24

APPROVED: PROFESSIONAL ENGINEER

APPROVED: PROFESSIONAL ENGINEER

APPROVED: PROFESSIONAL ENGINEER

CLARK • FINEFROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	MJP	SITE DEVELOPMENT PLAN	SCALE 1"=40'
DRAWN	BAL	PARCEL A	DRAWING 1 OF 15
CHECKED	WHT	NORTHEASTERN ELEMENTARY SCHOOL	JOB NO. 91-113
DATE	Feb 10, 92	TAX MAP NO. 31 PART OF PARCEL 235 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	FILE NO. 91-113 X

FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

SDP-92-58

CONSTRUCTION SPECIFICATIONS FOR S.W.M. PONDS

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practices MD-378. All references to ASTM and AASHTO specifications apply to the most recent version.

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.

Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fence, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be cut approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot radius around the inlet structure shall be cleared.

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative. When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

Earth Fill

The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6" (150mm) or other objectionable materials. Fill material for the center of the embankment and out of trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement - Areas on which fill 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 compacted 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.

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 track track of the equipment or compaction shall be achieved by a minimum of four

complete 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.

Where a minimum required density is specified, it shall not be less than 96% of maximum dry density with a moisture content within ±2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and to be certified by the Engineer at the time of construction. All compaction is to be determined by AASHTO Method T-99.

Cut Off 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 four feet below existing grade or as shown on the plans. The side slopes of the trench shall be 1 to 1 or flatter. The backfill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability.

Structure Backfill

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. It shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The material needed to fill completely all spaces under and adjacent to the pipe.

At no time during the backfilling operation shall driven equipment be allowed to operate closer than four 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" or greater over the structure or pipe.

Pipe Conduits

All pipes shall be circular in cross section.

Corrugated Metal Pipe - All of the following criteria shall apply for corrugated metal pipe.

- Materials - (Steel Pipe) - The pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190.7, type A with weight coupling bands.

bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound. The coating shall be applied to the pipe on both sides of the pipe. The following coatings of an approved equal may be used: Necon, Plast-Coat, Black-Road, and Best-Cu-Loy. Coated corrugated steel pipe shall meet the requirements of AASHTO M-245 and M-246.

Materials - (Aluminum Coated Steel Pipe) - The pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-274 with weight coupling bands or flanges. Any aluminum coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.

Materials - (Aluminum Pipe) - The pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211 with weight coupling bands or flanges. Aluminum surfaces that are to be in contact with concrete shall be primed with one coat of zinc chromate primer. Hot dip galvanized bolts may be used for connections.

Coupling bands, anti-seep collars, and sections, etc. must be composed of the same material as the pipe. Metals must be insulated from dissimilar materials with use of rubber or plastic insulating materials at least 24 mils in thickness.

Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the rear shall be welded all around when the pipe and rear are metal. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight. Dimple bands are not considered to be watertight.

All connections shall use a rubber or neoprene gasket when joining pipe sections. The end of each pipe shall be rolled an adequate number of couplings to accommodate the band width. The following type connections are acceptable for pipes less than 48" in diameter: flanges on both ends with a 1/2" wide standard lap type band with 1/2" wide 3/16" thick closed cell circular neoprene gasket; and a 1/2" wide huggie type band with 6/16" gaskets having a minimum diameter of 1/2" greater than the coupling depth.

Pipes 48" in diameter and larger shall be connected by a 24" long annular corrugated band using rods and nuts. A 1/2" wide by 3/16" thick closed cell circular neoprene gasket will be installed on the end of each pipe for a total of 24"

Helically corrugated pipe shall have either continuously welded seams or have lock seams.

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.

Backfilling shall conform to "Structure Backfilling".

Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe.

Materials - Reinforced concrete pipe shall have ball and socket joints with rubber gaskets and shall equal or exceed ASTM Designation C-301. An approved equivalent is AWWA Specification C-302.

Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. The bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on the drawings.

Laying pipe - Bell and spigot pipe shall be placed with the bell end 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 bedding 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 user.

Backfilling shall conform to "Structure Backfilling".

Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Polyvinyl Chloride (PVC) Pipe - All of the following criteria shall apply for polyvinyl chloride (PVC) pipe.

Materials - PVC pipe shall be PVC 1120 or PVC 1220 conforming to ASTM D-1785 or ASTM D-2241.

Joints and connections to anti-seep collars shall be completely watertight.

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.

Backfilling shall conform to "Structure Backfilling".

Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

Concrete - Concrete shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 601, Mix No. 3.

Rock Risers - All rock shall be dense, sound, and free from cracks, seams, and other defects conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one-third the greatest dimension of the fragment.

The rock shall have the following properties:

- Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- Soundness: Weight loss in five cycles not more than 20 percent when sodium sulfate is used.

Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 68.

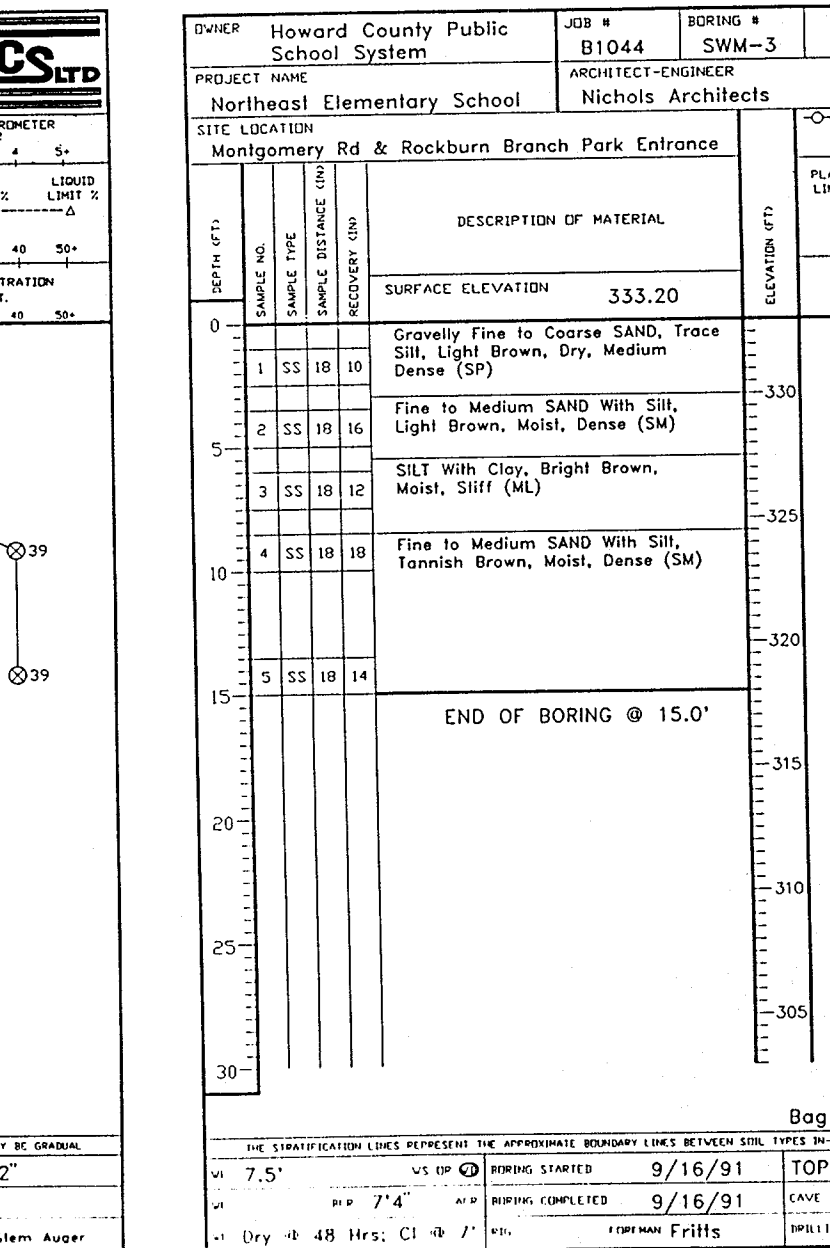
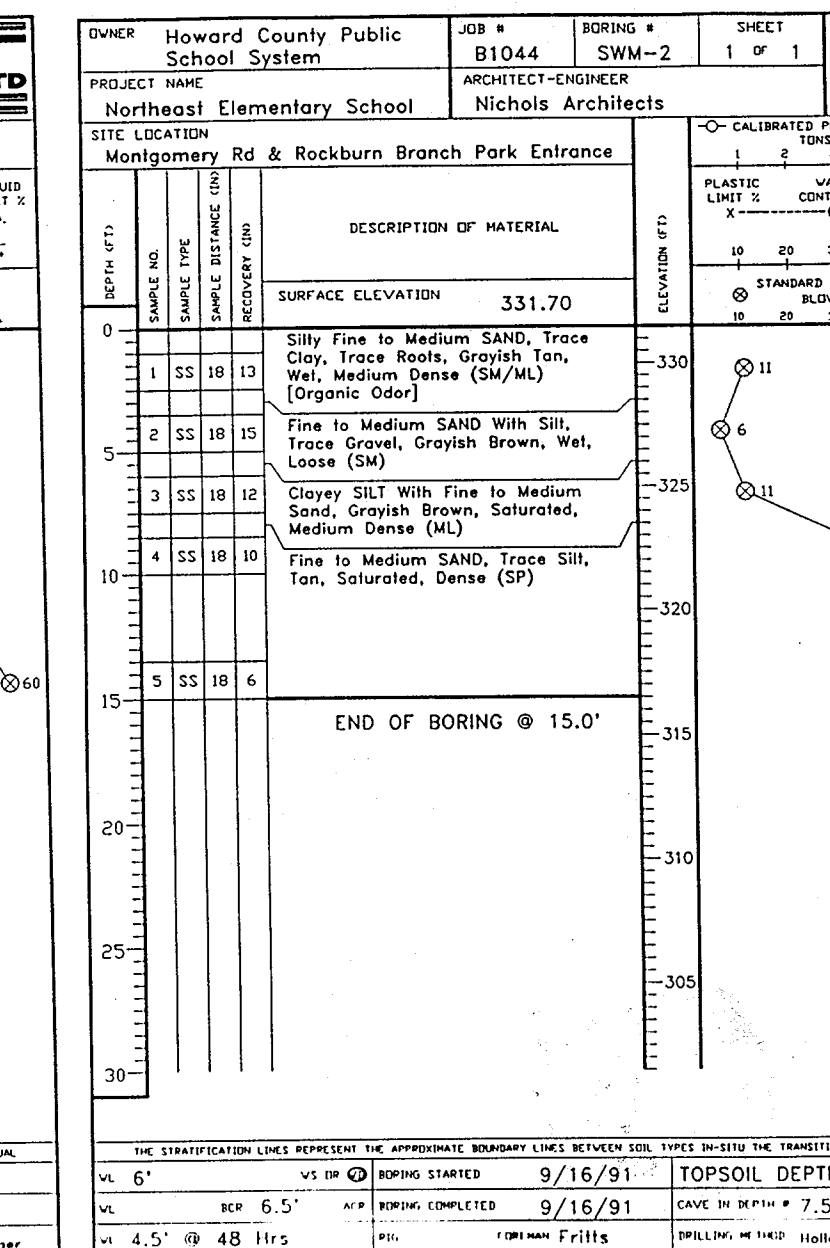
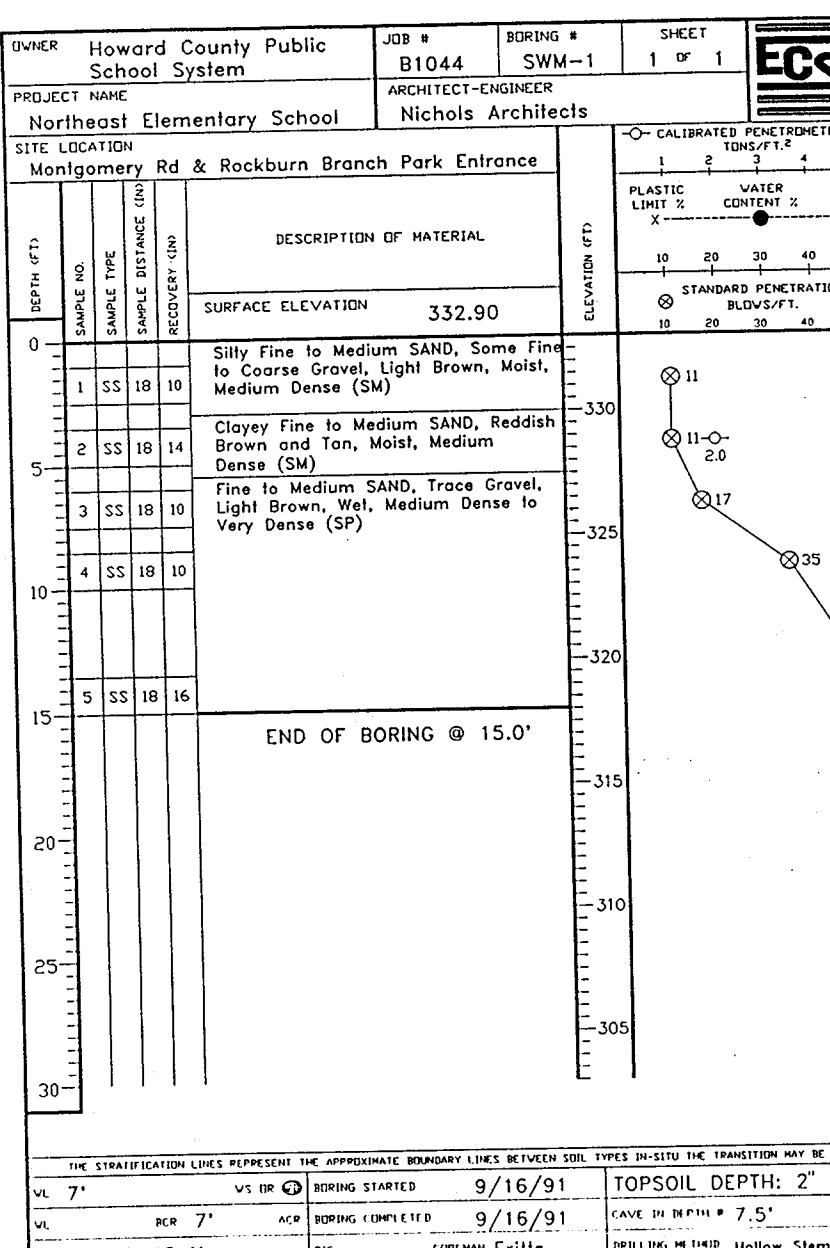
The riprap shall be placed to the required thickness in one operation. The rocks shall be delivered and placed in a manner that will cause the riprap to place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, Section 919.12.

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 furnish, 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 such 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 retained shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

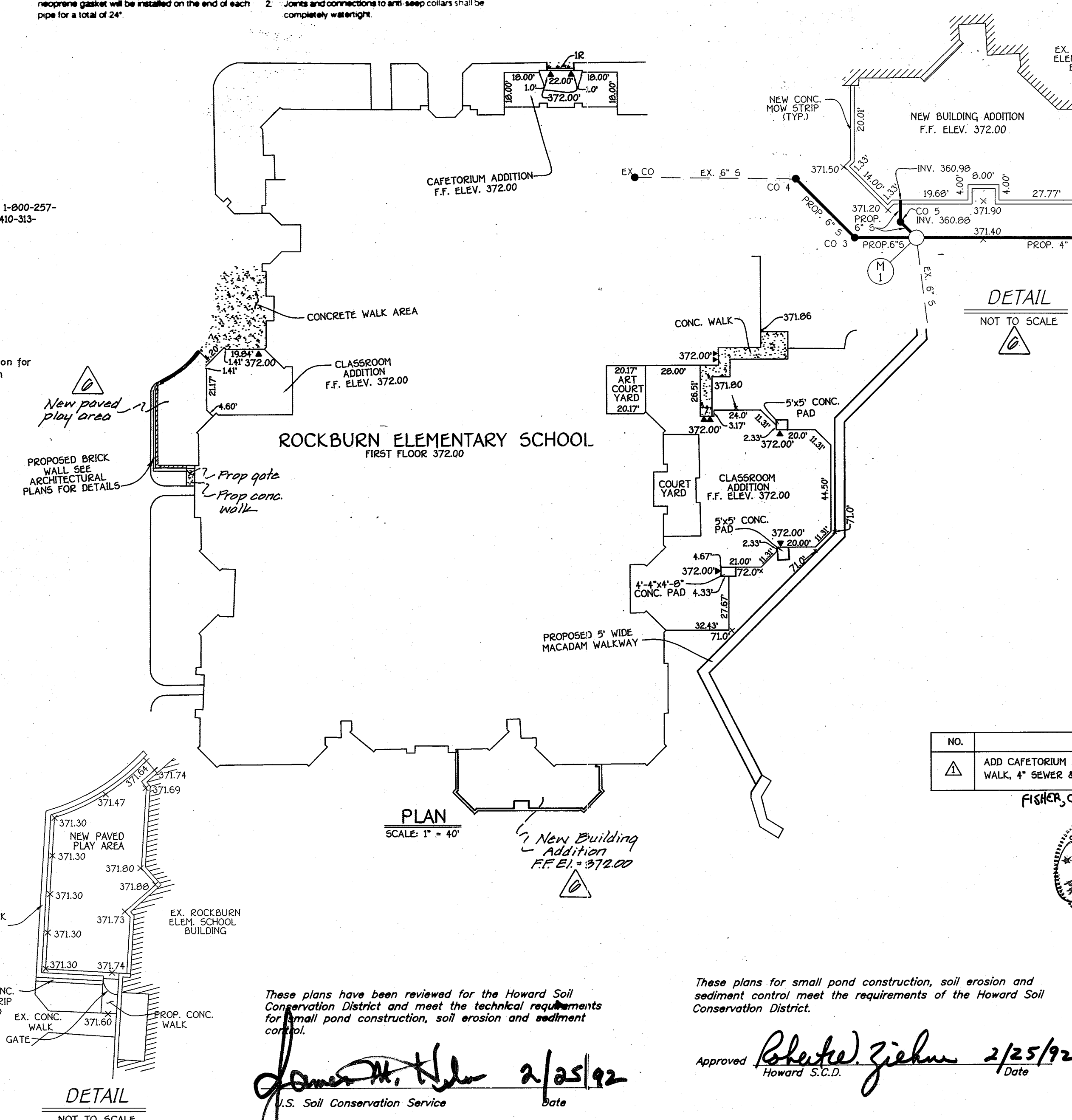
Stabilization - All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spot and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation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

Erosion and Sediment Control - Construction operations will be carried out in such a manner that erosion will be controlled and water and air 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.

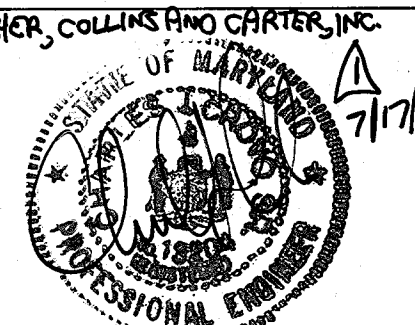


CONSTRUCTION SEQUENCE FOR BUILDING ADDITION

- 1) Obtain Grading Permit
- 2) 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 410-313-1330 24 hours before starting work.
- 3) Grade to subgrade building addition areas. Install sediment control measures shown on the plans. 2 weeks.
- 4) Relocate existing sewer line. 3 days.
- 5) Construct building addition and paved play area. 3 months.
- 6) Fine grade disturbed areas and stabilize with permanent seeding.
- 7) Notify Howard County Office of Construction/Inspection for permission for removal of sediment control measures and stabilize disturbed areas with permanent seeding.



NO.	REVISIONS DESCRIPTION	DATE
1	ADD CAFETERIUM AND CLASSROOM ADDITIONS, 5' MAC. WALK, 4" SEWER & CONSTRUCTION SEQUENCE.	7/17/03



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

Signature of Engineer: [Signature] Date: 12-3-91

SOIL BORINGS

NOTE: See Soils Report by Engineering Consulting Services, Ltd. dated October 7, 1991.

DEVELOPER'S CERTIFICATION

"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 Certificate of Attendance at a Department of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I will provide the Howard Soil Conservation District with "As Built" plan of the pond within 30 days of completion. I will also authorize periodic on-site inspections by the Howard Soil Conservation District."

Cathleen Conley Young 11/14/91
Signature of Developer Date

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT: [Signature] 3-2-92 DATE

APPROVED: HOWARD COUNTY DEPT OF PLANNING & ZONING: [Signature] 7/14/92 DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS: [Signature] 3-2-92 DATE

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ENGINEERS • PLANNERS • SURVEYORS
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DESIGNED: R.J.S. SCALE: AS SHOWN
DRAWN: J.T.R. DRAWING: 6 OF 15
CHECKED: R.J.S. JOB NO.: 91-113
DATE: Feb 10, 92 FILE NO.: 91-113-X

FOR: HOWARD COUNTY BOARD OF EDUCATION
10910 ROUTE 140
ELLCOTT CITY, MARYLAND 21043

SDP. 92-58

