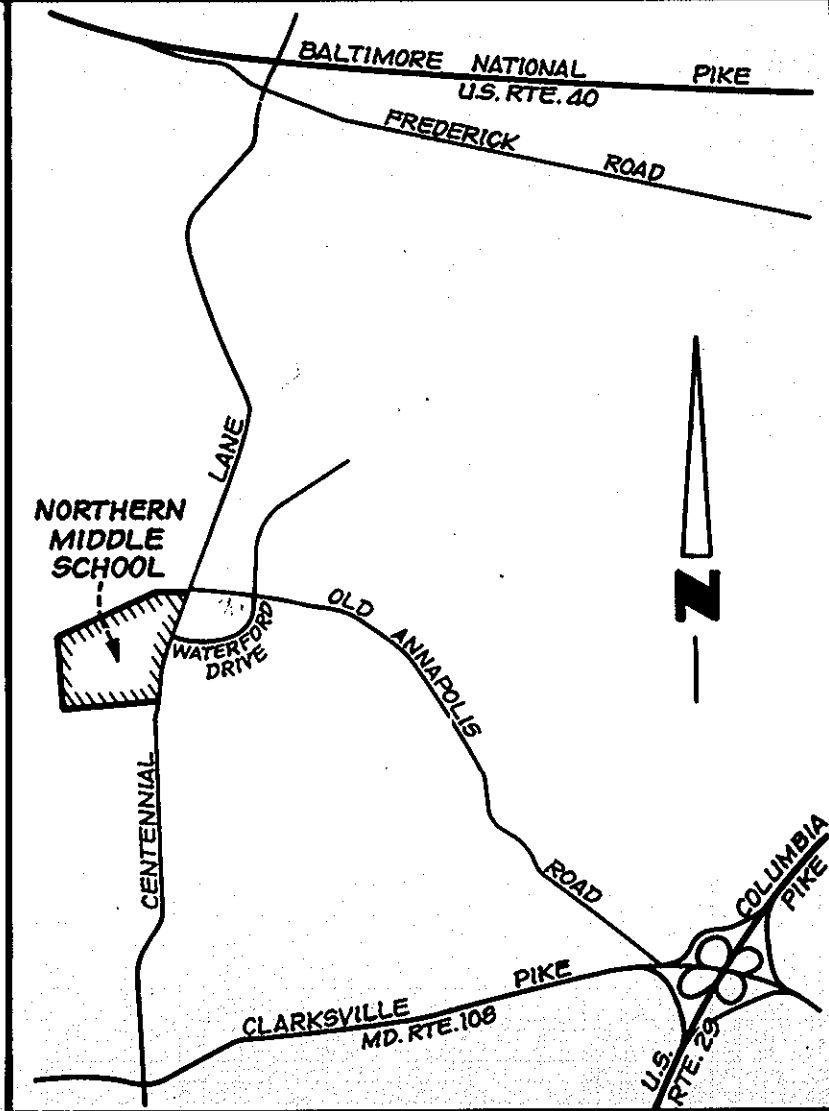


- SHEET INDEX**
1. SITE PLAN
 2. SITE PLAN
 3. STORMWATER MANAGEMENT & EROSION CONTROL PLAN
 4. STORMWATER MANAGEMENT DETAILS
 5. DETAILS
 6. UTILITY PROFILES
 7. SITE PLAN DETAILS
 8. DRAINAGE AREA MAP
 9. DRAINAGE AREA MAP
 10. SEDIMENT CONTROL PLAN
 11. SEDIMENT CONTROL PLAN
 12. PLANTING PLAN DETAILS
 13. PLANTING PLAN
 14. PLANTING PLAN
 15. PLANTING DETAILS



VICINITY MAP
SCALE: 1"=3,000'
NOTE: SEE SHEET 2 FOR OVERALL BOUNDARY PLAT WITH KEY PLAN.

SITE ANALYSIS

1. AREA OF PARCEL: 6.4146 AC.
2. ZONING: R
3. TAX MAP: 24 PARCEL: 1095
4. PROPOSED USE: PUBLIC SCHOOL
5. FOOTPRINT AREA
EXISTING HIGH SCHOOL: 3.77 AC.
PROPOSED MIDDLE SCHOOL: 1.89 AC.
6. BUILDING HEIGHT: 34.0'
7. PARKING

	EXIST.	PROP.	TOTAL
REGULAR	475	97	572
HANDICAP	2	8	10
TOTAL	477	105	582

8. BUILDING COVERAGE
EXISTING HIGH SCHOOL: 6.14%
PROPOSED MIDDLE SCHOOL: 9.08%
9. OPEN SPACE: 95.75 AC. (90.78%)

- LEGEND**
- Proposed Storm Drain
 - Existing Contours
 - Proposed Contours
 - Proposed Elev.
 - Proposed Curb & Gutter
 - Prop. Bituminous Paving
 - Prop. Concrete
 - Prop. Sanitary Sewer
 - Prop. Slope
 - Prop. Fence
 - Prop. AWWA Gate Valve w/ Valve Box
 - Curb/Gutter Reverse
 - Gutter Pan

For Public Water and Public Sewerage,
APPROVED: Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: [Signature] DATE: 10/24/90
CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 10-29-90

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: [Signature] DATE: 11-5-90

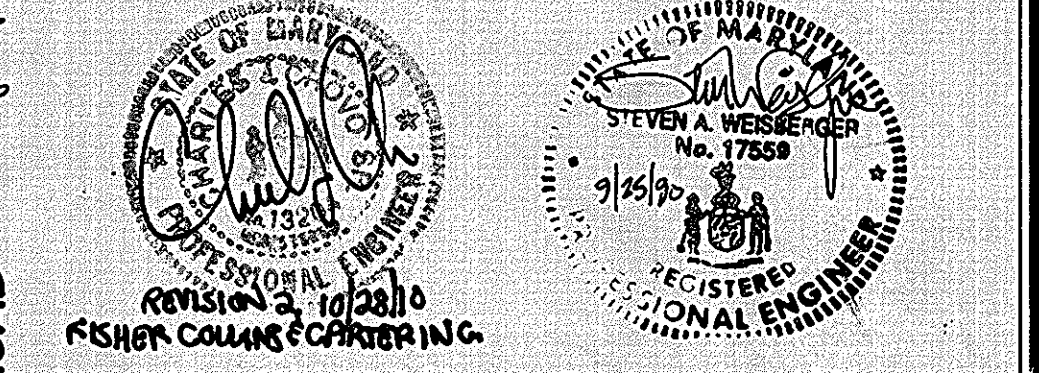
APPROVED: Howard County Department of Planning and Zoning
DIRECTOR: [Signature] DATE: 11-21-90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: [Signature] DATE: 11/17/90

REVISIONS

No	REVISIONS	Date
1	Added parking to rear of Middle School (By Clark Finerock & Sackett, Inc.)	10/17/91
2	Rev. Busloop by FCC, Inc.	10/28/90



- GENERAL NOTES**
1. ON-SITE TOPOGRAPHIC INFORMATION PROVIDED BY HOWARD COUNTY DEPARTMENT OF EDUCATION, AS PROVIDED BY ASSOCIATED ENGINEERS, INC. OF SILVER SPRING, MARYLAND, DATED DECEMBER 29, 1989. BOUNDARY SURVEY AND OFF-SITE TOPOGRAPHIC INFORMATION HAS BEEN PERFORMED BY BENGTSON, DeBELL, ELKIN & TITUS, LTD., AUGUST 1990. BENGTSON, DeBELL, ELKIN & TITUS, LTD. DID NOT CHECK AND ASSUMES NO RESPONSIBILITY FOR WORK BY OTHERS.
 2. SITE INFORMATION NOT SHOWN IN THESE PLANS MAY BE FOUND IN THE CENTENNIAL HIGH SCHOOL SITE PLAN, DATED MAY, 1975 AND REFERRED TO AS SDP-75-86.
 3. FRONTAGE IMPROVEMENTS ALONG CENTENNIAL LANE HAVE BEEN COORDINATED WITH FUTURE IMPROVEMENTS UNDER CAPITAL PROJECTS NO. J-4015-111. REFER TO THESE CONSTRUCTION DRAWINGS FOR ROAD PROFILE INFORMATION.
 4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH HOWARD COUNTY ROAD CONSTRUCTION CODE AND SPECIFICATIONS.
 5. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION 24 HOURS IN ADVANCE OF WORK AT 592-2417.
 6. ALL DRIVEWAYS AND PARKING TO BE OWNED AND MAINTAINED BY HOWARD COUNTY BOARD OF EDUCATION.
 7. ANY DAMAGE TO COUNTY OWNED RIGHT-OF-WAY TO BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 8. ALL SIDEWALKS SHALL BE CROSS SLOPED AT 1/4" PER FOOT, AWAY FROM THE BUILDING UNLESS OTHERWISE INDICATED.
 9. TRENCH BEDDING FOR STORM DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH HOWARD COUNTY STANDARD 02.01.
 10. 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.
 11. FITCH GUTTER OF CURBS TO CONFORM TO ADJACENT DRAINAGE PATTERN.
 12. CONTACT "MISS UTILITY" AT 599-0100 BEFORE BEGINNING CONSTRUCTION.
 13. MAXIMUM PROPOSED GRADED SLOPE SHALL BE 3:1.
 14. A GAS SERVICE LINE WILL BE REQUIRED FROM THE EXISTING 8" GAS LINE ON CENTENNIAL LANE TO THE REAR OF THE BUILDING. GAS LINE SIZE AND ROUTING TO BE DETERMINED BY IGLE.
 15. EXISTING GOAL POSTS TO BE REMOVED BY CONTRACTOR AND STORED ON SITE AT A LOCATION TO BE DETERMINED BY THE OWNER. EXISTING BACKSTOP TO BE REMOVED AND DISPOSED OF PROPERLY AT CONTRACTOR'S EXPENSE.
 16. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, DETAILS AND EXACT LOCATION OF SCREENING WALLS, CONCRETE PADS, FENCE ENCLOSURES, LANDINGS AND STEPS.
 17. AFTER GRADING OR INSTALLATION OF PROPOSED UNDERGROUND IMPROVEMENTS, EXISTING PAVING, STRIPING, CURB & GUTTER, SIDEWALKS, PLANTINGS OR OTHER IMPROVEMENTS SHALL BE RESTORED TO ORIGINAL CONDITIONS.
 18. PROPOSED WATER LINE SHOWN ON THIS SITE PLAN FOR REFERENCE ONLY. REFER TO PUBLIC WATER EXTENSION PLAN #A4-3080 FOR DETAILS.
 19. WATER VP-91-41, (SECTIONS 16.116 C.1 AND 16.116 C.6) REGARDING GRADING ON A 2% AND GREATER SLOPE OF MORE THAN 20,000 S.F., CONTIGUOUS AREA AND TO PREVENT DISTURBANCE AND GRADING WITHIN A WETLANDS, 25 FOOT MITLAND BUFFER AND 75 FOOT STRIPED BUFFER, WAS GRANTED BY DEPARTMENT OF PLANNING AND ZONING LETTER OF 9/25/90 AND WILL BECOME NULL AND VOID ONE YEAR FROM THE DATE OF THE LETTER.



ADDRESS CHART

PAR. NUMBER	STREET ADDRESS
1095	4200 CENTENNIAL LANE

Subdivision Name	Block #	Parcel #
NORTHERN MIDDLE SCHOOL	19	1095

Plat # or L/F	Block #	Zone	Tax/Zone Map	Elec. Dist	Census Tr
646	108	R	24	2ND	6023.01

Water Code	Sewer Code
J01	5740300

SITE PLAN
NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 24 PARCEL 1095
OWNER
HOWARD COUNTY DEPT. OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

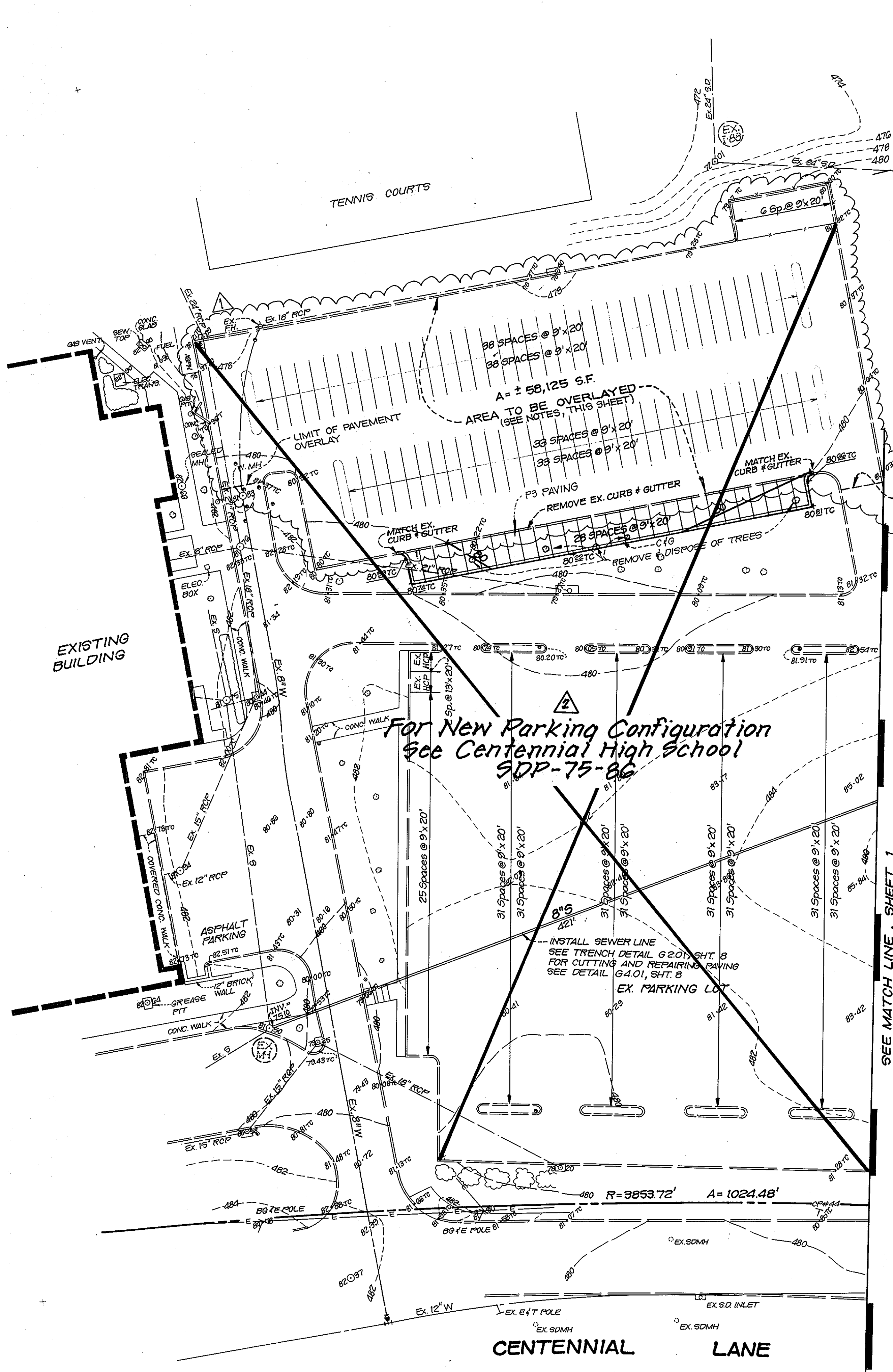
BENGTSON, DeBELL, ELKIN & TITUS, LTD.
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
10807 LOCKWOOD DRIVE, SUITE 200, SILVER SPRING, MARYLAND 20901
(800) 681-8515

OFFICE LOCATIONS
◆ PRINCE WILLIAM COUNTY, VIRGINIA
◆ FAIRFAX COUNTY, VIRGINIA
◆ MONTGOMERY COUNTY, MARYLAND
◆ ANNE ARUNDEL COUNTY/VIRGINIA

BOET

NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DATE: APRIL, 1990
SCALE: 1"=40'
DESIGN: M.K.H. DRAWN: RBM
CHECK: S.A.W. CHECK:
JOB NO.:
PR. NO: 5508935000
SHEET 1 OF 15
FILE NO.:

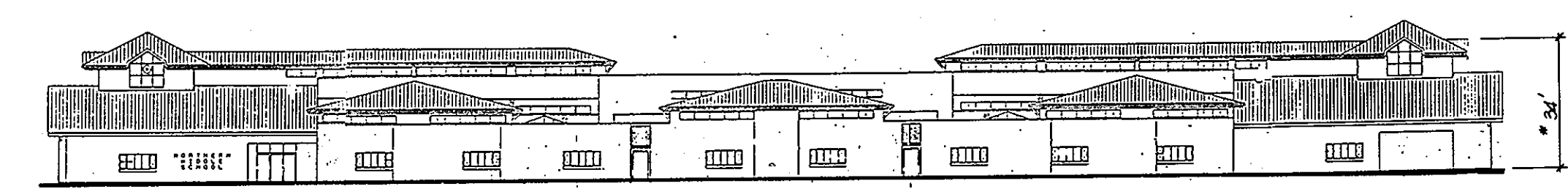


For New Parking Configuration
See Centennial High School
SDP-75-86

- ① N 82° 53' 52" W · 15.00
- ② S 07° 15' 08" W · 20.26
- ③ S 82° 53' 52" E · 15.00
- ④ R=3,853.72 A=17.44

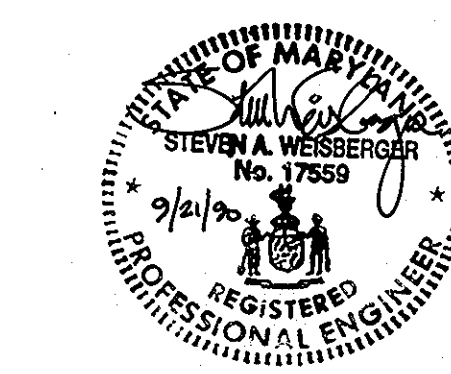
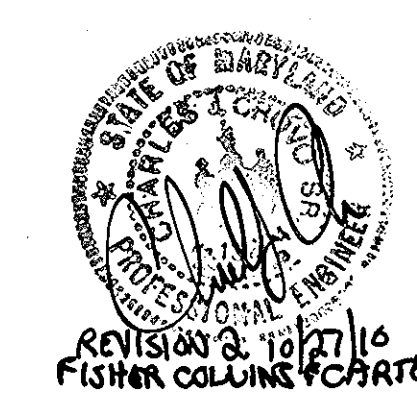
OVERALL BOUNDARY PLAT

SCALE: 1" = 200'
NOTE: PREPARED WITHOUT BENEFIT OF A TITLE REPORT.



*NOTE: VERTICAL HEIGHT FROM FINISHED GRADE TO MEAN HEIGHT LEVEL BETWEEN EAVES AND RIDGE OF ROOF.

- NOTES:**
1. THE CONTRACTOR SHALL REMOVE AREAS OF EXISTING BASE COURSE AND PAVING WHERE DETERMINED TO BE DEFICIENT BY THE OWNER'S REPRESENTATIVE. PRIOR TO REPLACING THE PAVING SECTION, THE SUBGRADE SHOULD BE APPROVED BY THE OWNER'S REPRESENTATIVE. UNACCEPTABLE SUBGRADE MATERIAL IS TO BE REMOVED AND REPLACED BY THE CONTRACTOR. PAYMENT FOR SUBGRADE, BASE COURSE, AND PAVING REPLACEMENT SHALL BE BY THE ALLOWANCE IN BID ITEM 2C.
 2. UPON COMPLETION OF WORK DESCRIBED IN NOTE 1, ABOVE, THE CONTRACTOR SHALL OVERLAY THE ENTIRE 58,125 ± S.F. PARKING AREA WITH A 1 1/2" OF BITUMINOUS CONCRETE SURFACE. THE PAVEMENT IS TO BE MILLED DOWN OR REMOVED AT INTERFACES BETWEEN EXISTING AND PROPOSED PAVING, TO PROVIDE A SMOOTH TRANSITION, AND PREVENT PONDING. PRIOR TO INSTALLING THE OVERLAY, THE CONTRACTOR SHALL REMOVE THE CHAIN LINK FENCE (BUT MAY KEEP THE POSTS IN PLACE) AND SHALL RESTORE TO ORIGINAL CONDITION UPON COMPLETION OF PAVING.
 3. AFTER ALL PAVING WORK HAS BEEN COMPLETED, THE CONTRACTOR SHALL RESTRIPE THE RESURFACED (OVERLAY) AREA.



REVISION #	DATE	COMPANY	BY	DESCRIPTION
1	1-9-91	B.D.E.T.	R.E.R.	ADD AREA & PARKING OVERLAY LIMITS AND NOTES
2	10-27-10	F.C.C.		Revised Parking Lot

For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
 APPROVED: *James J. ...* 10/29/90
 DIRECTOR DATE
 CHIEF, BUREAU OF ENGINEERING
 APPROVED: For Public Water and Public Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 APPROVED: *James W. ...* 11-5-90
 COUNTY HEALTH OFFICER DATE
 APPROVED: *Ulrich ...* 11.21.90
 DIRECTOR DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE 11/16/91

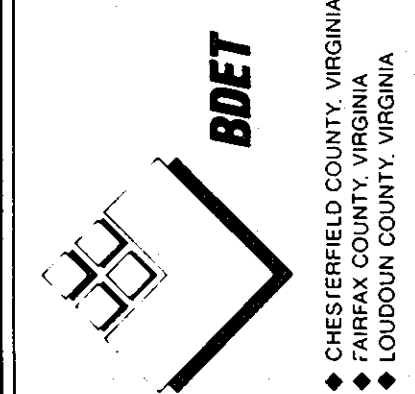


SITE PLAN
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1095
 OWNER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
 SCALE: 1" = 40'
 DESIGN: M.K.H. DRAWN: R.E.R.
 CHECK: S.A.W. CHECK:
 JOB NO.:
 P.R. NO.: 9908935000
 SHEET 2 OF 15
 FILE NO.:

NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10801 LOCKWOOD DRIVE, SUITE 200, SILVER SPRING, MARYLAND 20901
 OFFICE LOCATIONS:
 • ANNE ARUNDEL COUNTY, MARYLAND
 • MONTGOMERY COUNTY, MARYLAND
 • CHESTERFIELD COUNTY, VIRGINIA
 • PRINCE WILLIAM COUNTY, VIRGINIA
 • FARRAX COUNTY, VIRGINIA
 • LOUDOUN COUNTY, VIRGINIA



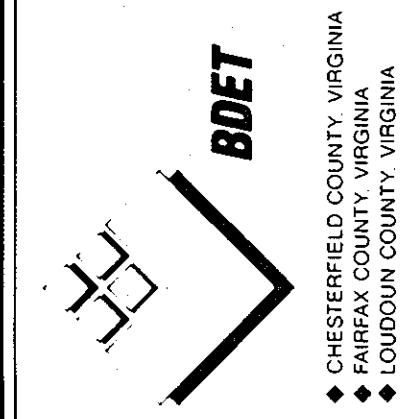
For Public Water and Public Sewerage,
 APPROVED: Storm Drainage Systems and Public Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director *[Signature]* 10/29/90
 DATE
 Chief, Bureau of Engineering *[Signature]* 10-29-90
 DATE

APPROVED: For Public Water and Public Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer *[Signature]* 11-5-90
 DATE

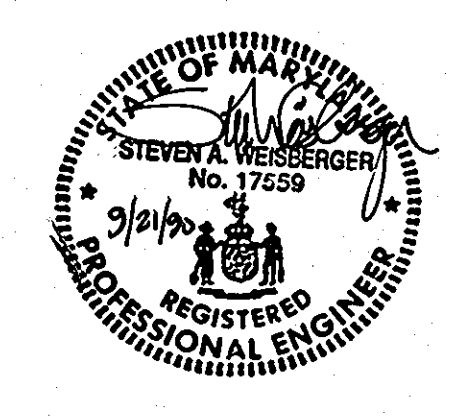
APPROVED: Howard County Department of Planning and Zoning
 Director *[Signature]* 11/21/90
 DATE
 Chief, Division of Community Planning and Land Development *[Signature]* 11/21/90
 DATE

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10801 LOCKWOOD DRIVE, SUITE 300, SILVER SPRING, MARYLAND 20901
 (301) 861-6515

OFFICE LOCATIONS
 ◆ ANNE ARUNDEL COUNTY, VIRGINIA
 ◆ CHESTERFIELD COUNTY, VIRGINIA
 ◆ FAIRFAX COUNTY, VIRGINIA
 ◆ LOUDOUN COUNTY, VIRGINIA
 ◆ MONTGOMERY COUNTY, MARYLAND
 ◆ VIRGINIA BEACH, VIRGINIA

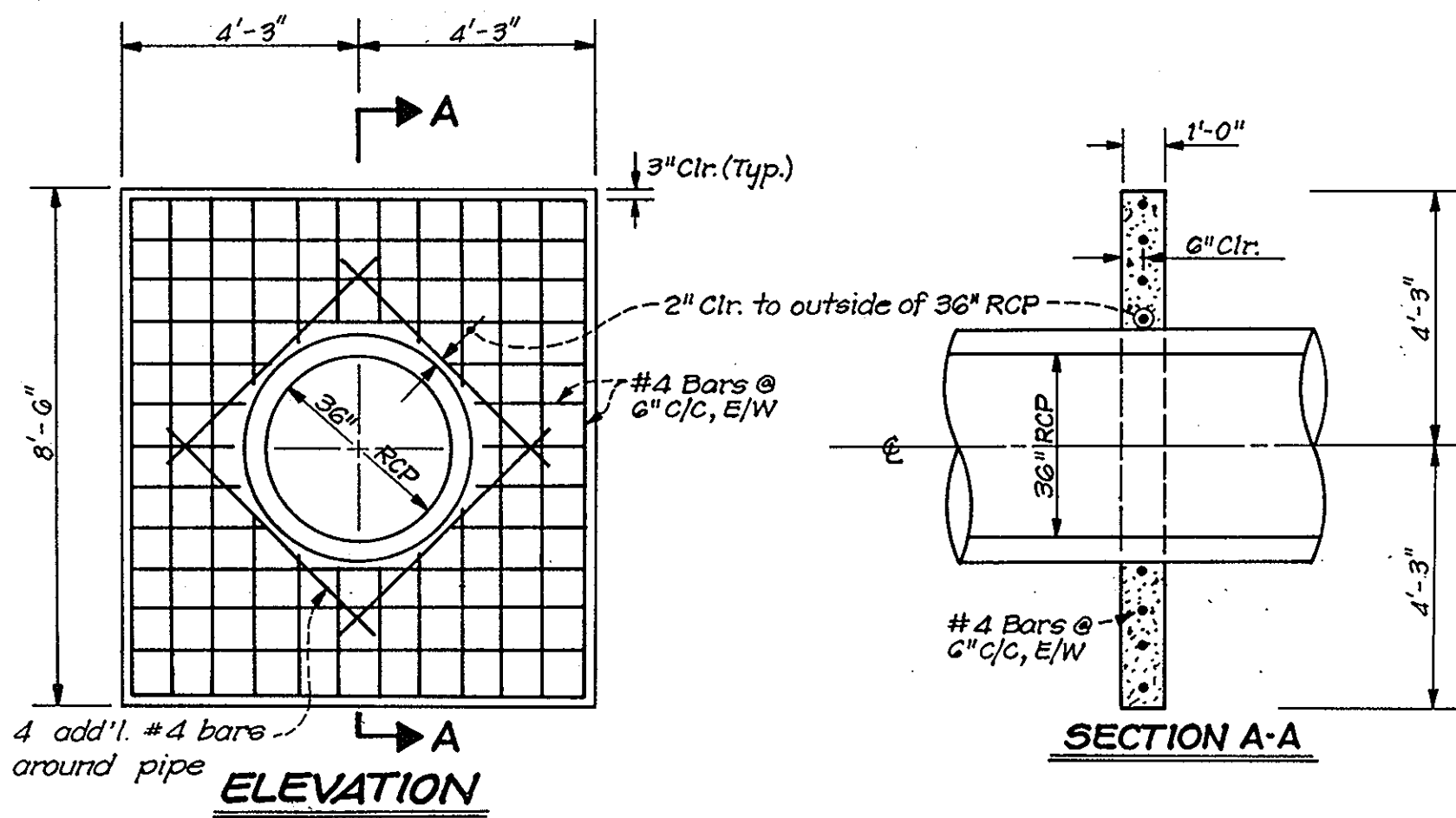


NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

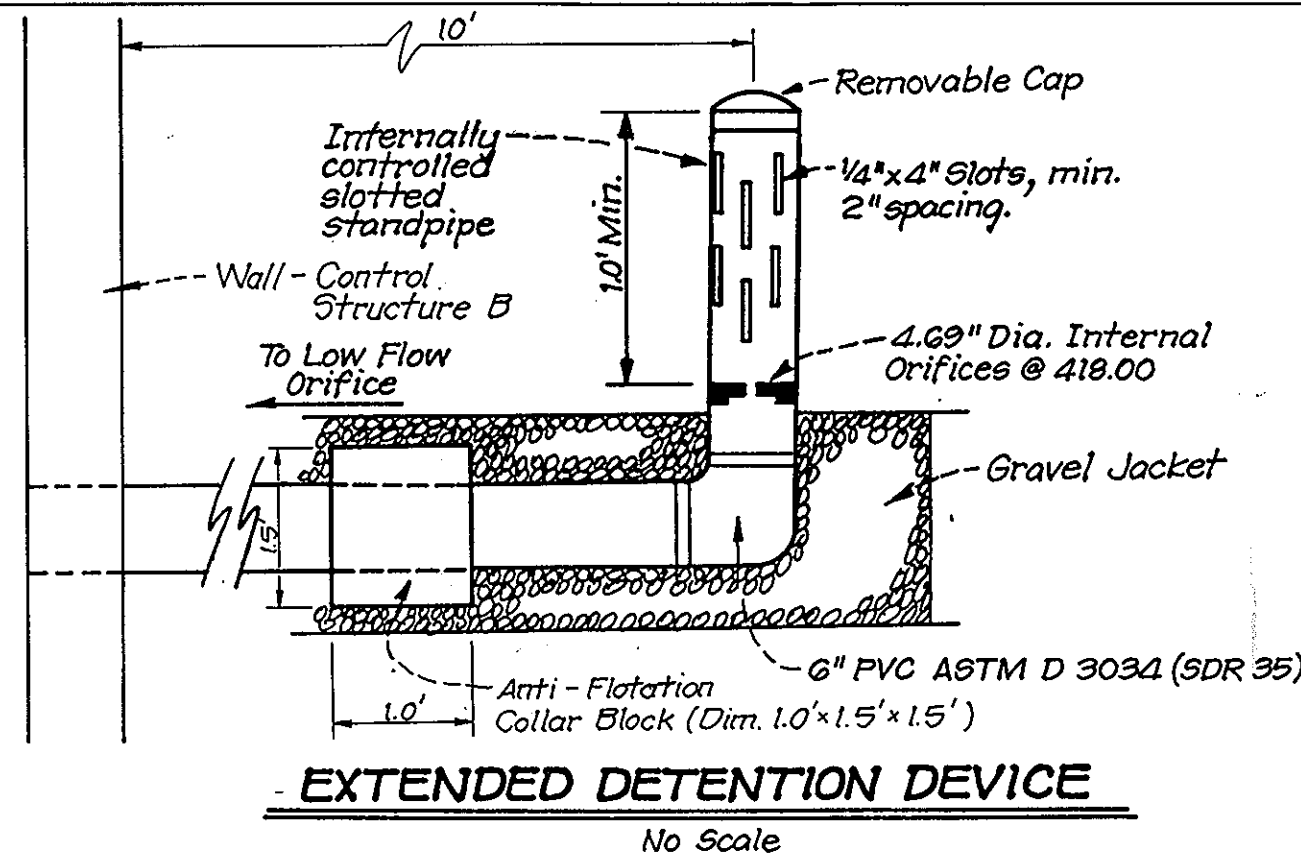


SITE PLAN
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1095
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 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
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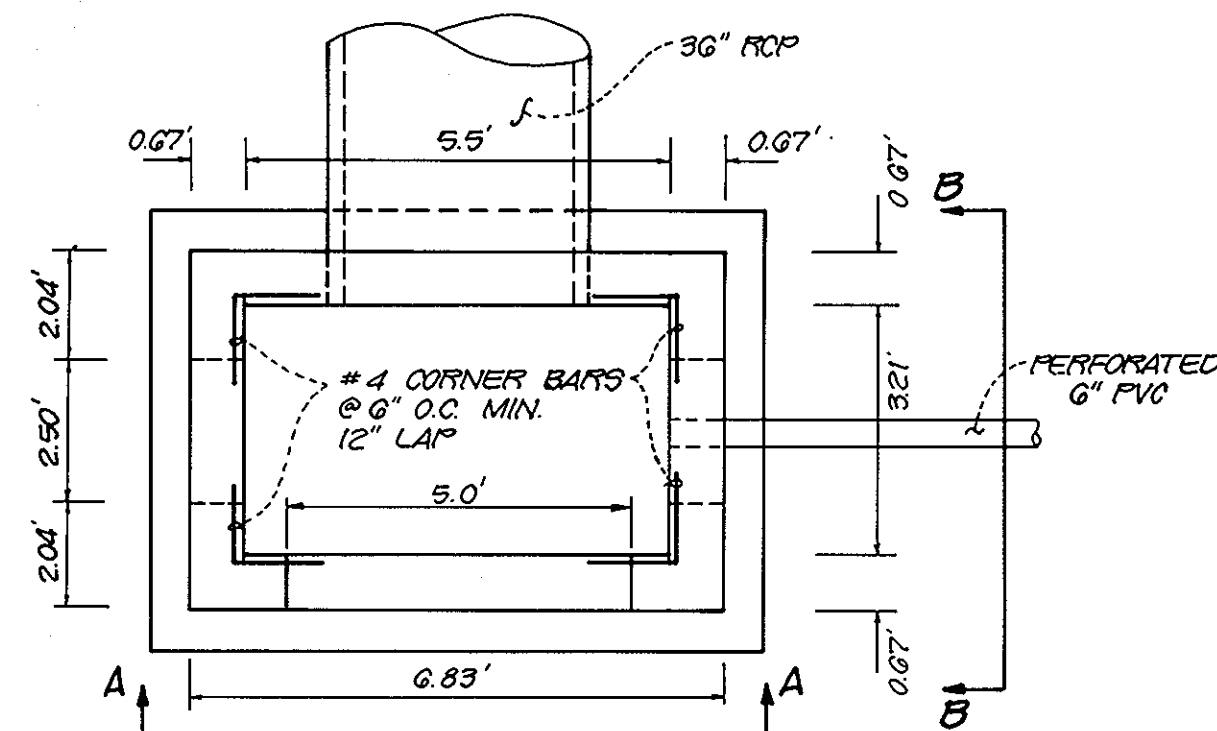
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 JOB NO.:
 P.R. NO: 5608935000
 SHEET 3 OF 15
 FILE NO.:



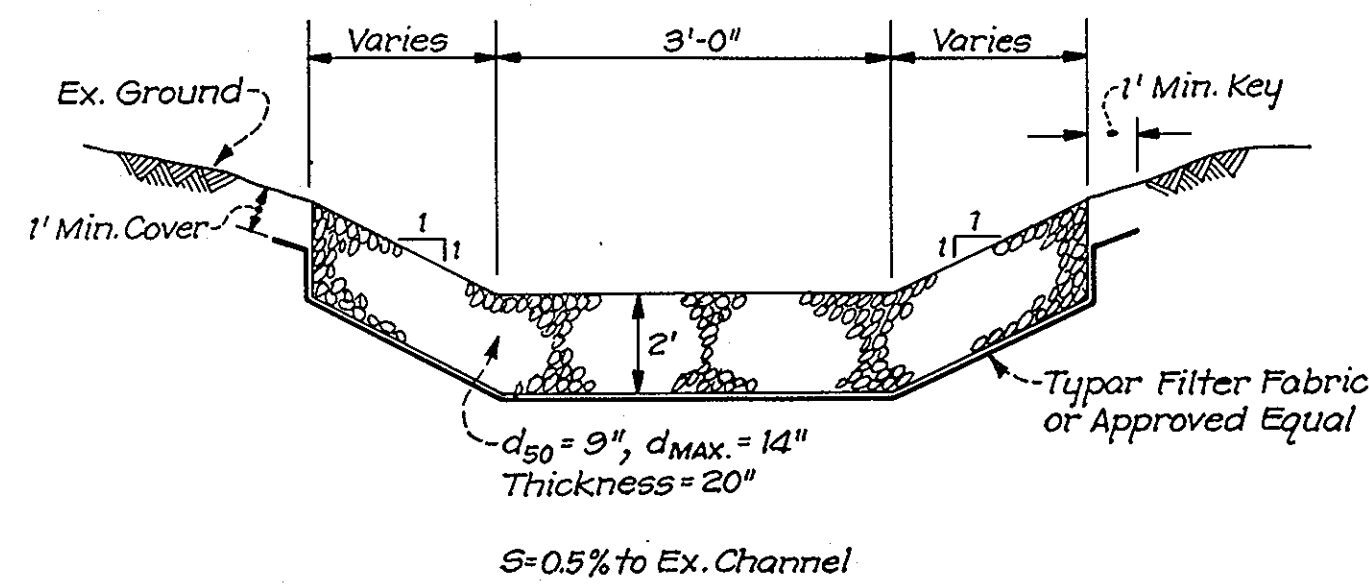
**ANTI-SEEP COLLAR
DETAIL**



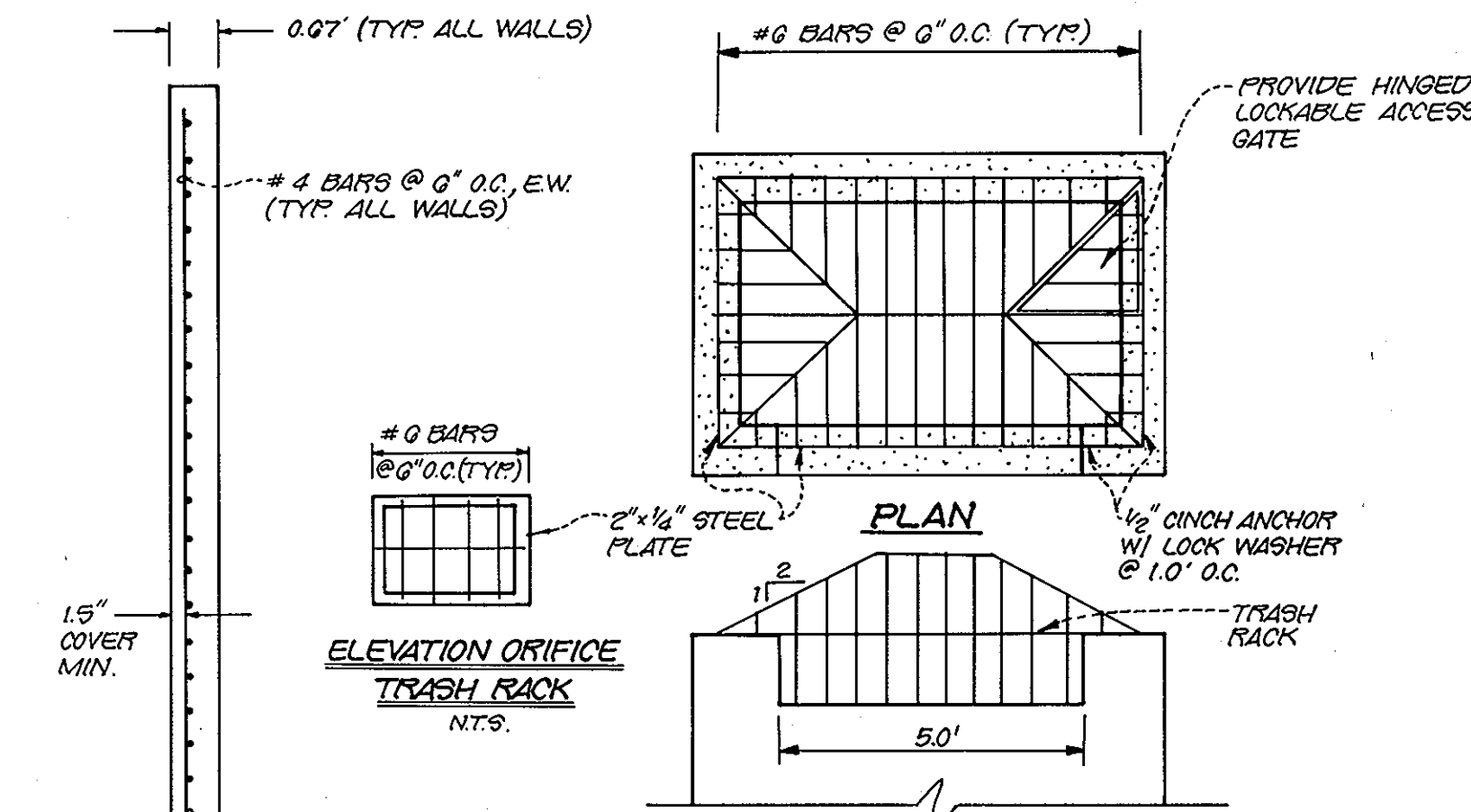
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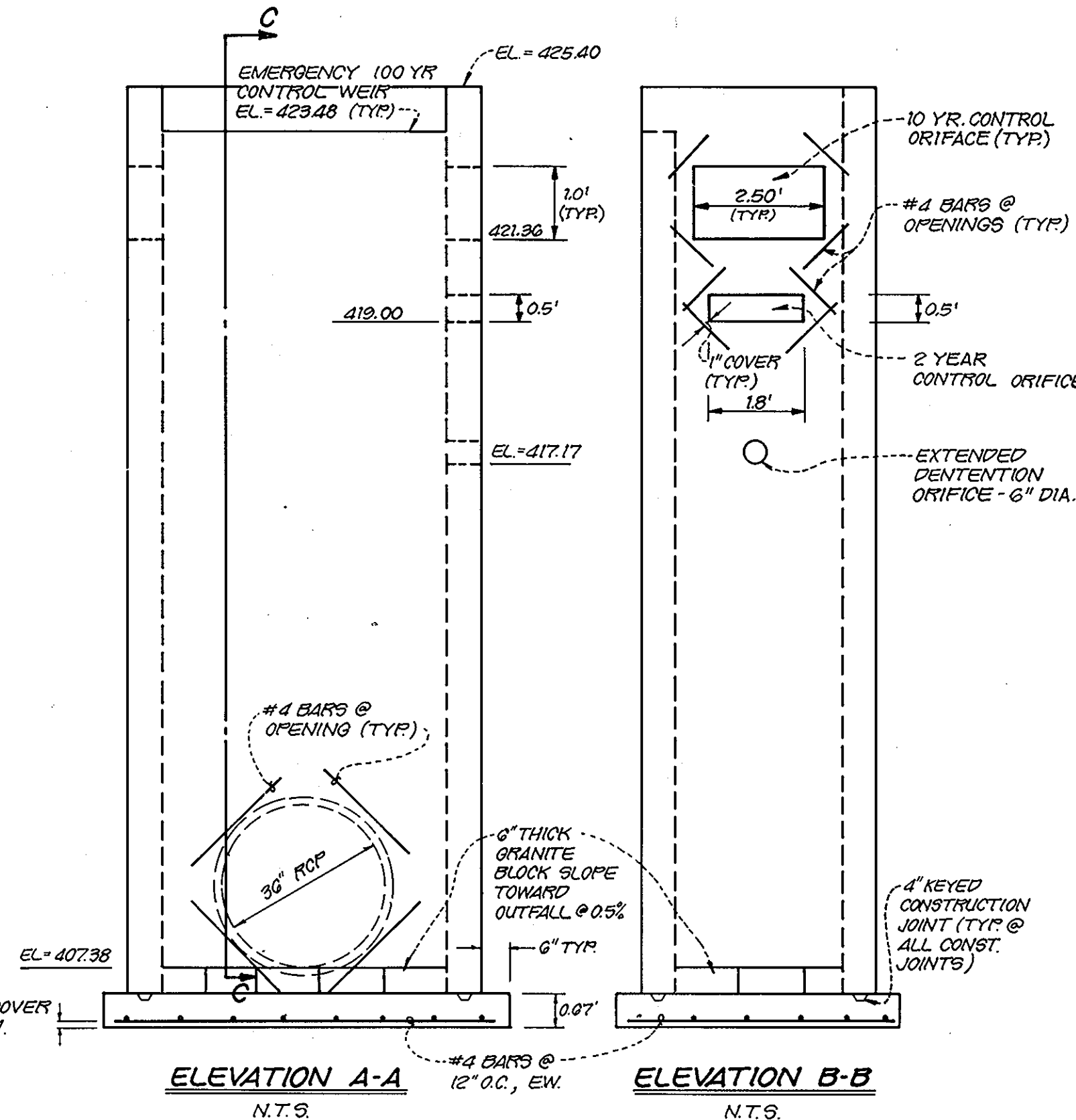
CONTROL STRUCTURE B PLAN
N.T.S.



**RIP-RAP OUTFALL CHANNEL
DETAIL**
No Scale



TRASH RACK DETAIL



ELEVATION A-A N.T.S. **ELEVATION B-B** N.T.S.

CONSTRUCTION SPECIFICATIONS

I. SITE PREPARATION
Areas under the embankment and structure works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL
Material
The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, over-size stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans.
Placement
Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which shall be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

III. STRUCTURAL BACKFILL
Backfill material 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 compaction equipment. The material needs 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 the contractor drive equipment over any part of a concrete structure or pipe unless there is a compacted fill of twenty-four inches or greater over the structure or pipe.

IV. PIPE CONDUITS
A. CORRUGATED METAL PIPE
1. Materials - (Steel Pipe) - This pipe and its appurtenances shall be galvanized and fully bituminous coated and shall conform to the requirements of AASHTO Specification M-190 Type A with watertight coupling bands. Any bituminous coating damaged or otherwise removed shall be replaced with cold applied bituminous coating compound.
Materials - (Aluminum Pipe) - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-190 or M-211 with watertight coupling bands. Coupling bands, anti-seep collars, end 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. 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 pH of the surrounding soils shall be less than 9 and greater than 4.

Helically corrugated pipe in addition to the requirements above shall have either continuously welded seams or have lock seams which are caulked with a neoprene bead.
2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the riser shall be welded all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

B. REINFORCED CONCRETE PIPE
1. Materials - Reinforced concrete pipe shall have a rubber gasket joint and shall equal or exceed ASTM Specification C-301. Approved equivalents are AWWA Specification C-300, 301, and 302.
2. Bedding - All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the sides of the pipe at least 10% of its diameter with a minimum thickness of 3". W.S.S.C. low cradle bedding is an approved equivalent.
3. 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 on 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.
4. Backfilling shall conform to structural backfill as shown above.
5. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE
Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Class A-1, or P-1.
VI. STABILIZATION
All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by seeding and applying straw mulch in accordance with Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas immediately after finish grading.

- NOTES:**
1. ALL EXPOSED STEEL TO BE HOT DIPPED GALVANIZED.
 2. TRASH RACK BARS AND PLATES ARE TO BE CONNECTED BY WELD.
 3. TRASH RACK TO BE MOUNTED ON CONCRETE STRUCTURE W/ 1/2" CINCH ANCHORS.
 4. THE SOIL CONSERVATION SERVICE REVIEW IS FOR SAFETY ONLY AND DOES NOT ADDRESS THE STRUCTURAL INTEGRITY OF THE RISER.

STRUCTURE SCHEDULE

NO.	TYPE	STATION	OFFSET	ELEVATION		REMARKS	BONDED AND INSPECTED BY
				TOP	INVERT		
I-95	A-5	PER PLAN	-----	486.70	483.30	H.C. STD SD-4.01	PRIVATE
I-96	A-5	PER PLAN	-----	485.84	481.45	H.C. STD SD-4.01	PRIVATE
M-97	MANHOLE	PER PLAN	-----	487.8	479.24	H.C. STD G-5.12	PRIVATE
M-98	MANHOLE	PER PLAN	-----	485.0	481.34	H.C. STD G-5.12	PRIVATE
M-99	MANHOLE	PER PLAN	-----	487.0	482.95	H.C. STD G-5.12	PRIVATE
I-1	A-5	PER PLAN	-----	480.78	474.47	H.C. STD SD-4.01	PRIVATE
I-2	A-5	PER PLAN	-----	481.85	478.50	H.C. STD SD-4.01	PRIVATE

PIPE SUMMARY

SIZE	TYPE	LENGTH
8 INCH	CAST IRON	282 ft
15 INCH	RCP CL III	632 ft
21 INCH	RCP CL III	145 ft
36 INCH	RCP CL IV	101 ft

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.
J. Helm 10/5/90
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.
Robert W. Zielhuis 10/5/90
Howard Soil Conservation District Date

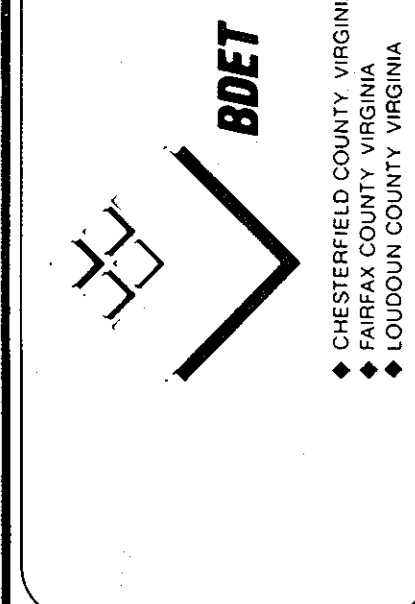
For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
APPROVED: *Thomas M. Lewis* 10/29/90
DIRECTOR DATE
William S. Ray 10-29-90
CHIEF, BUREAU OF ENGINEERING DATE
APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
Joseph D. Dugdale 11-5-90
COUNTY HEALTH OFFICER DATE
APPROVED: Howard County Department of Planning and Zoning
Wells 11.21.90
DIRECTOR DATE
Mark A. J. Campbell 11/21/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



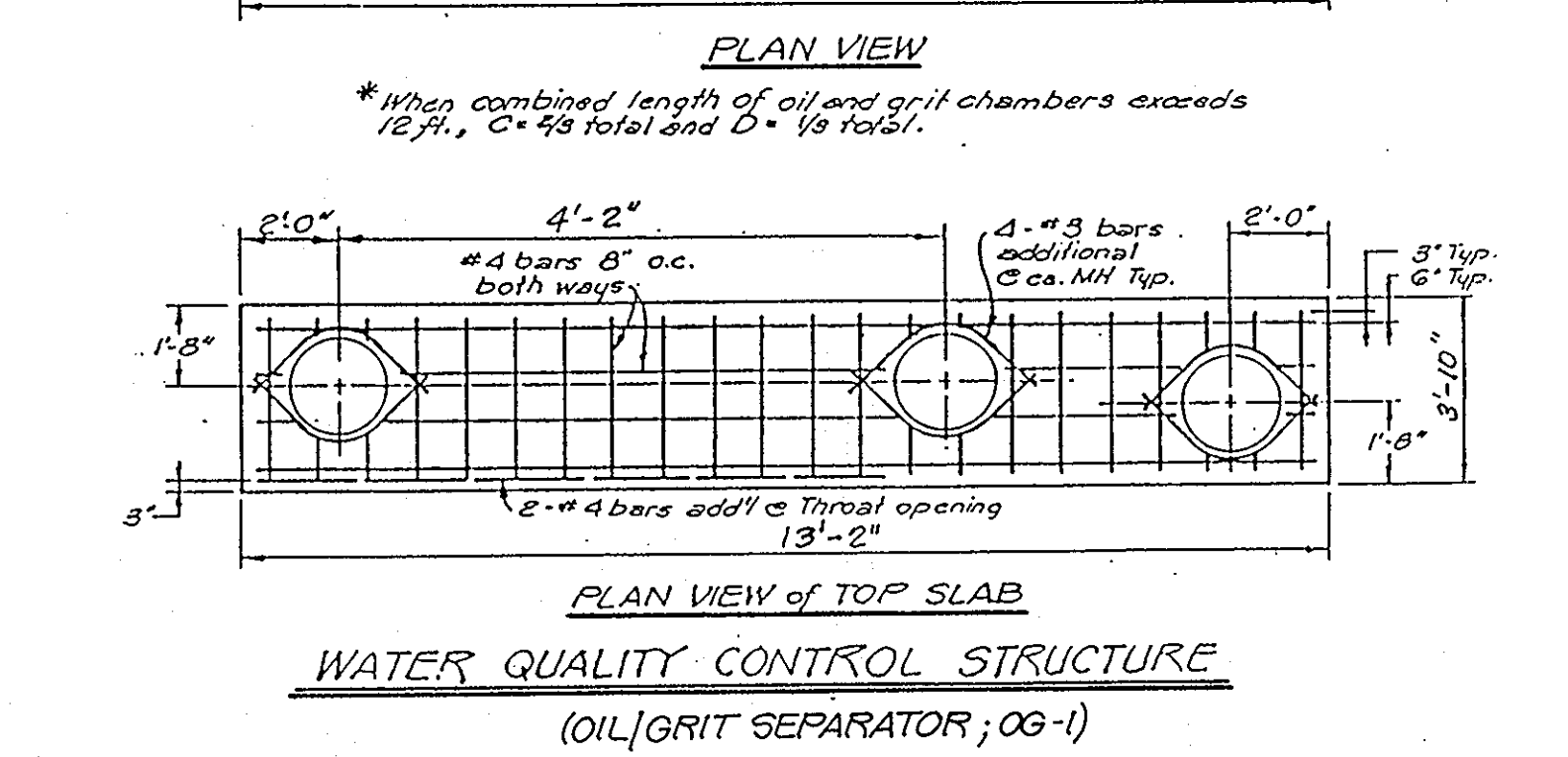
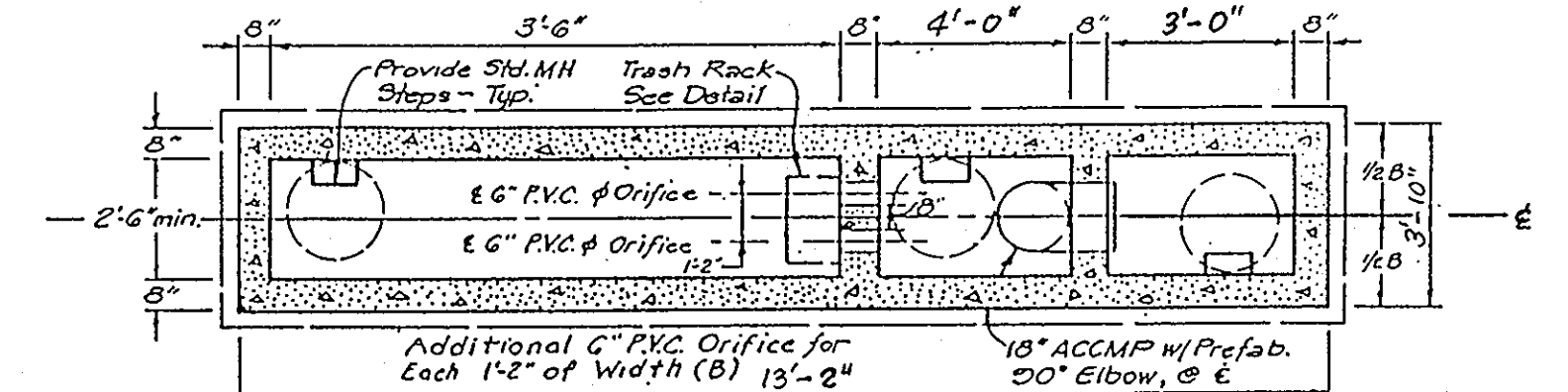
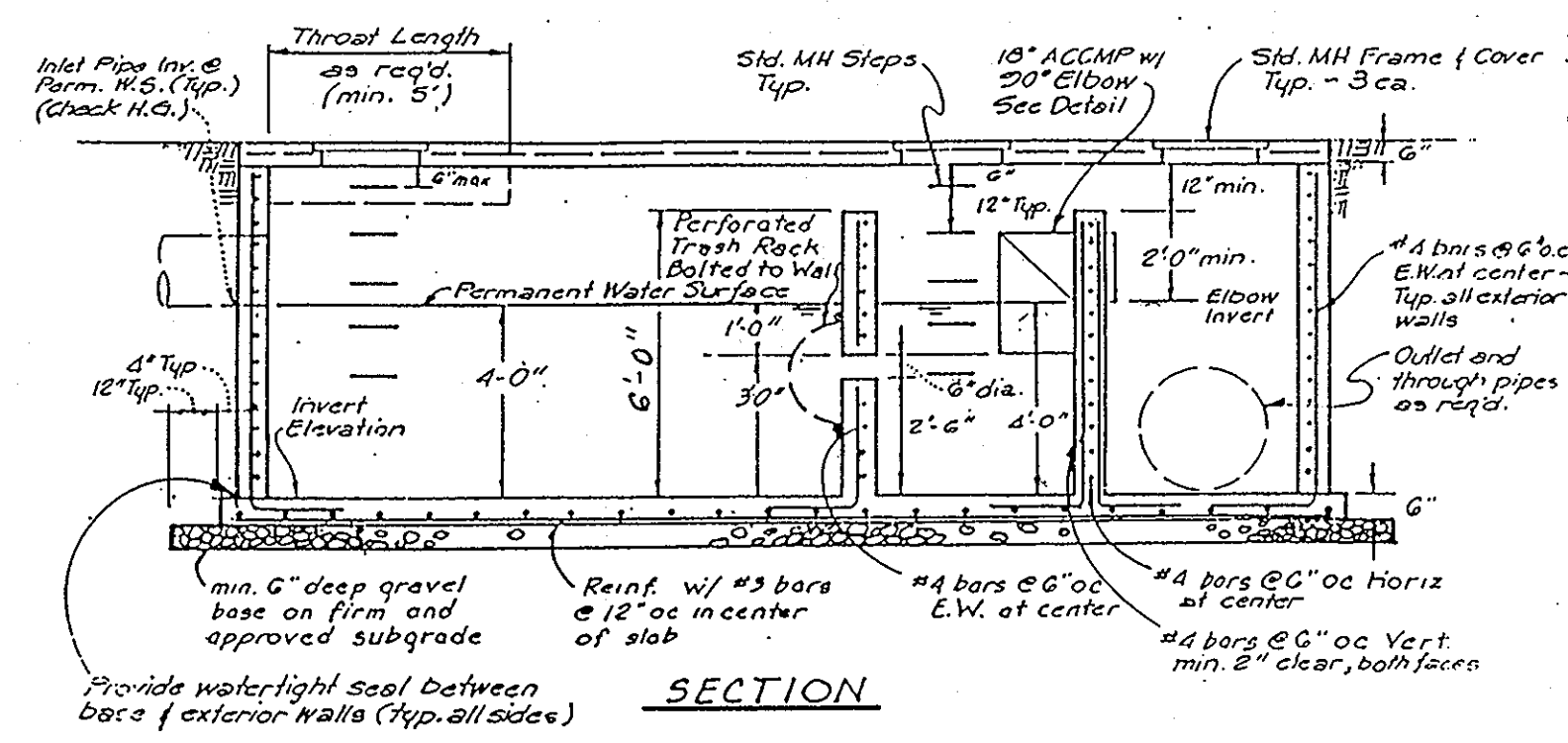
STORMWATER MANAGEMENT DETAILS
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TAX MAP 24 PARCEL 1095
OWNER
HOWARD COUNTY DEPT. OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
SCALE: AS SHOWN
DESIGN: MKH DRAWN: AER/REM
CHECK: BAW CHECK:
JOB NO.:
PR. NO.: 5908935000
SHEET 5 OF 15
FILE NO.:

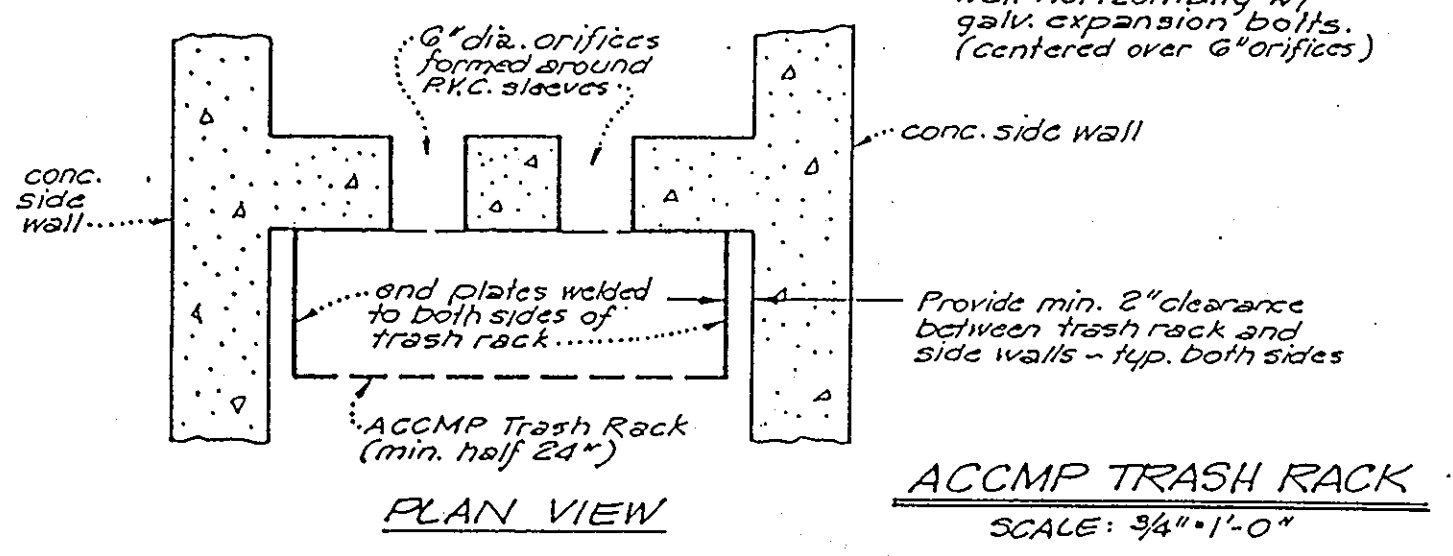
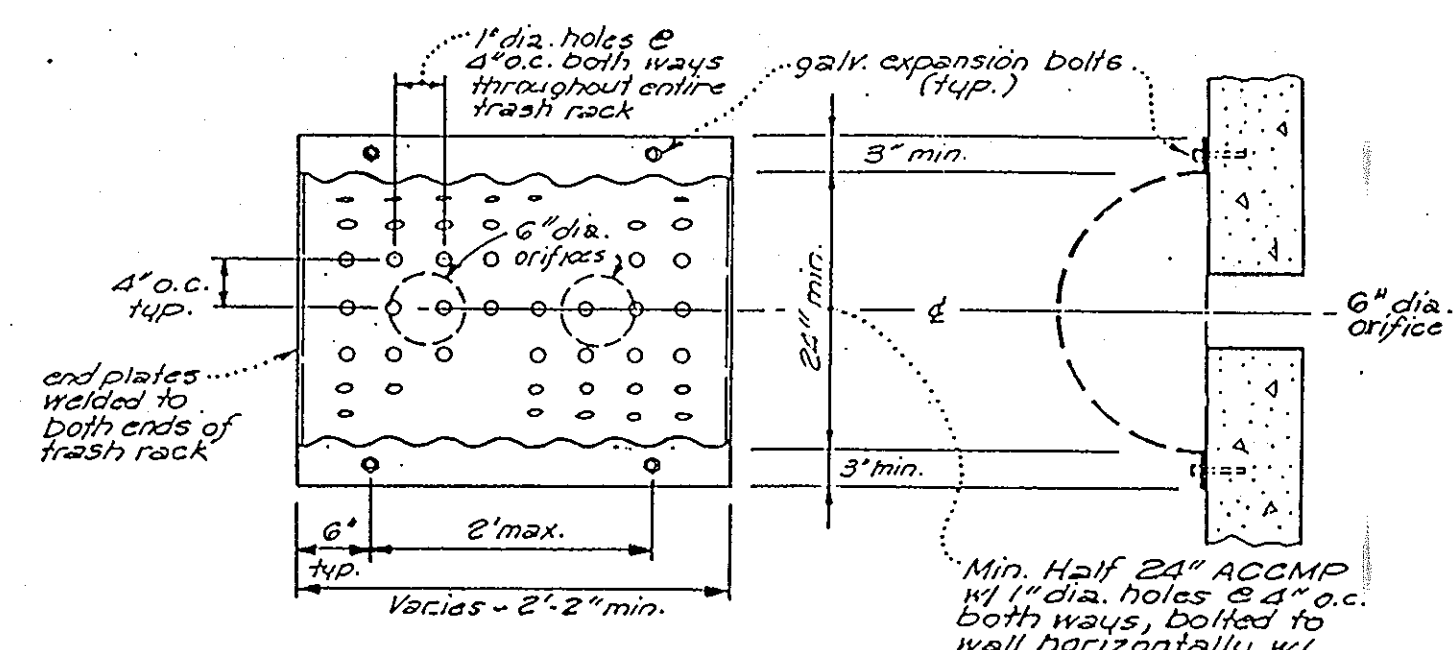
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• VIRGINIA BEACH, VIRGINIA
• MONTGOMERY COUNTY, MARYLAND
• LOUDOUN COUNTY, VIRGINIA



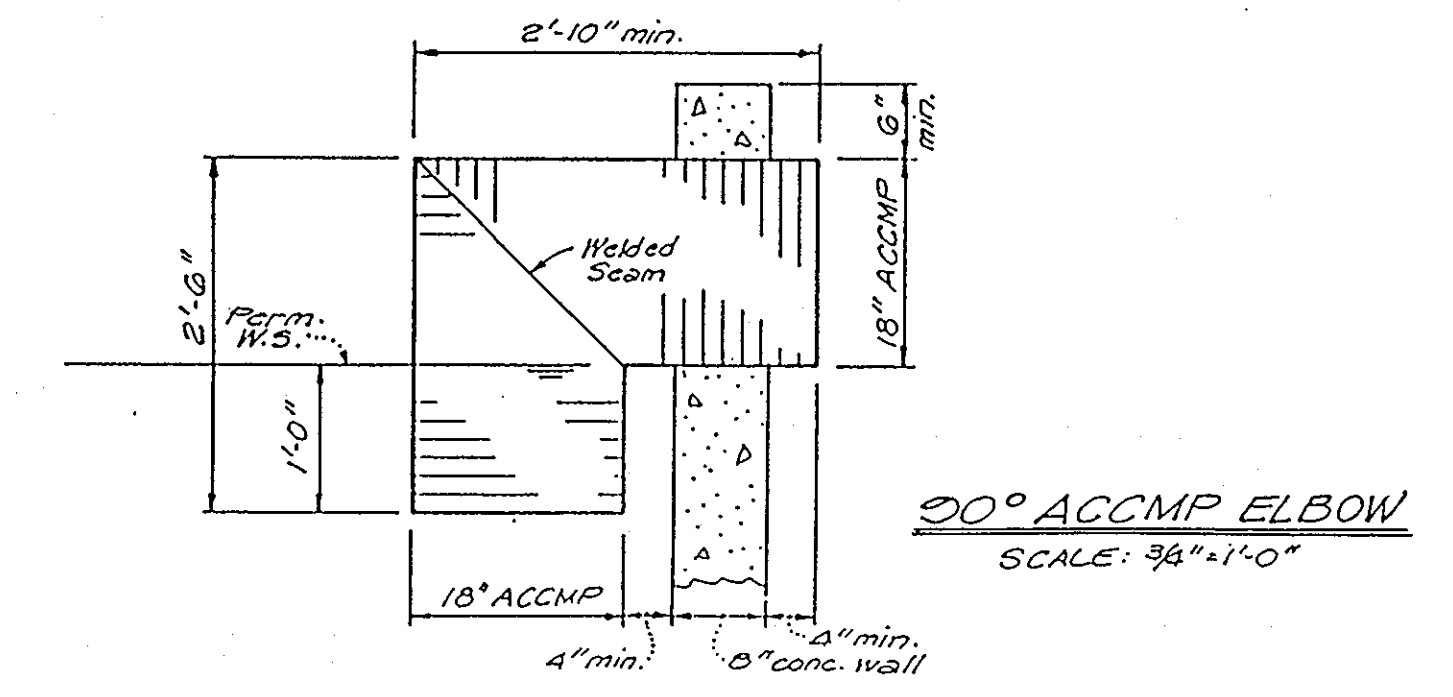
NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



WATER QUALITY CONTROL STRUCTURE (OIL GRIT SEPARATOR; OG-1)

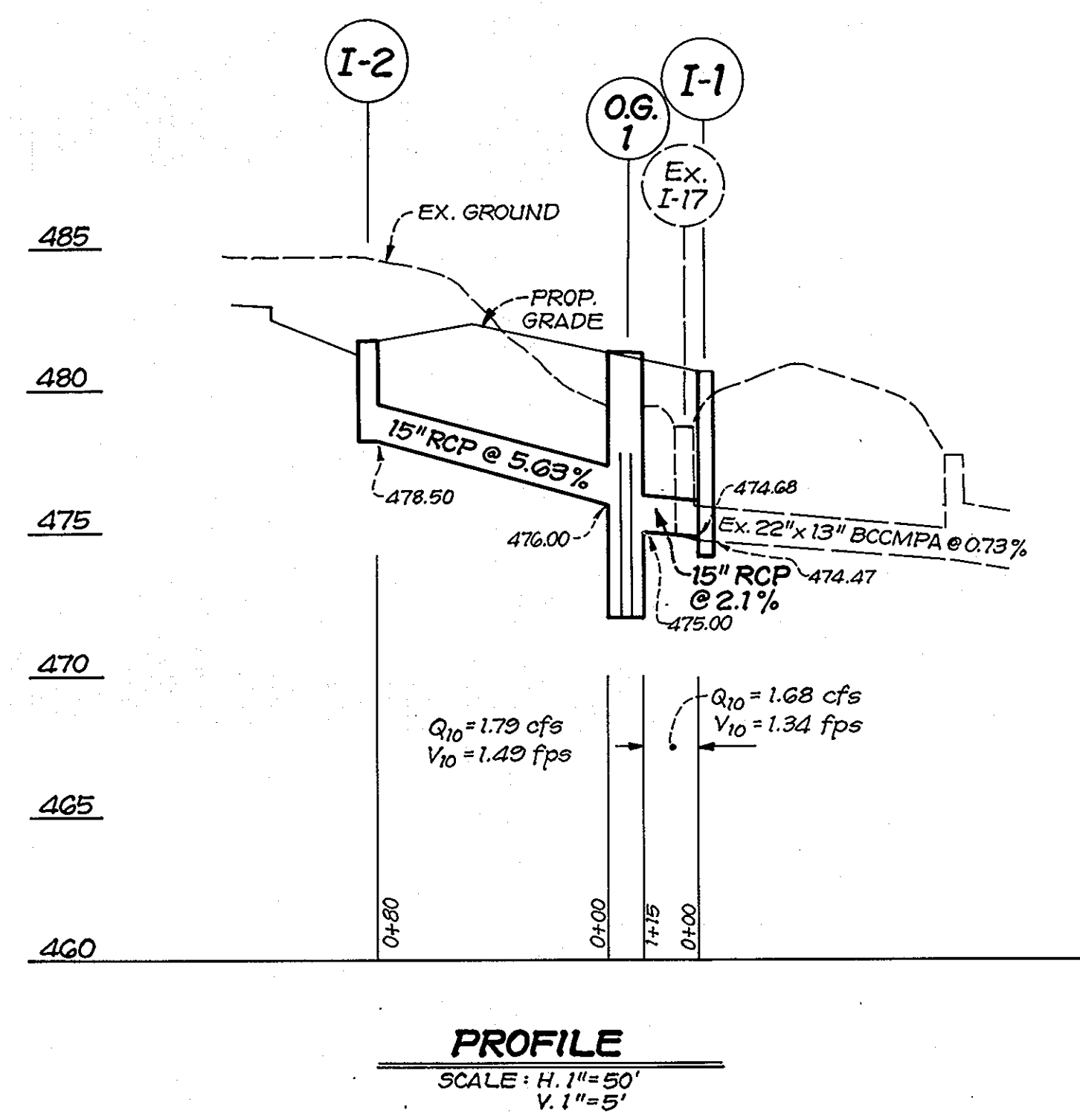


ACCMP TRASH RACK SCALE: 3/8"=1'-0"

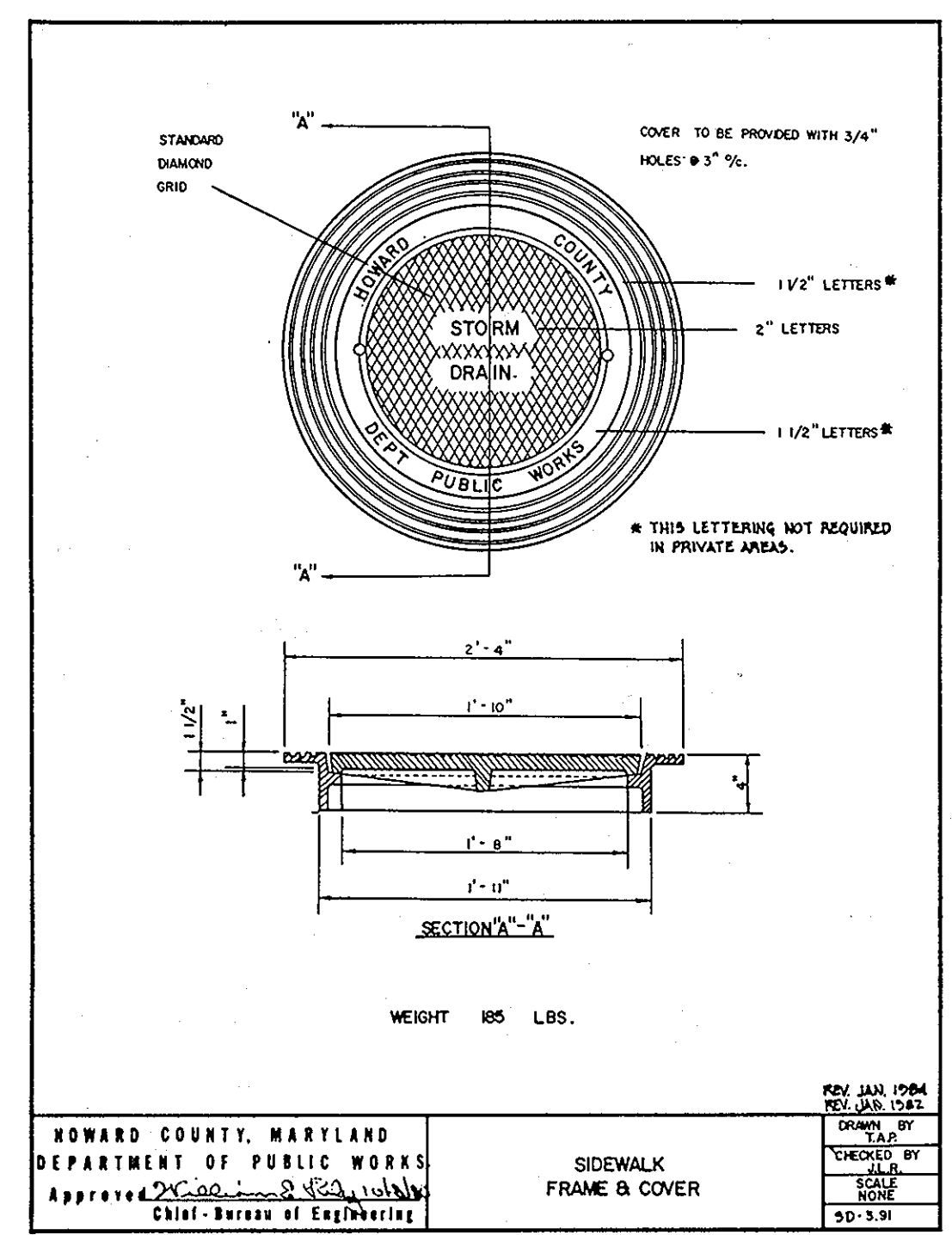


90° ACCMP ELBOW SCALE: 3/8"=1'-0"

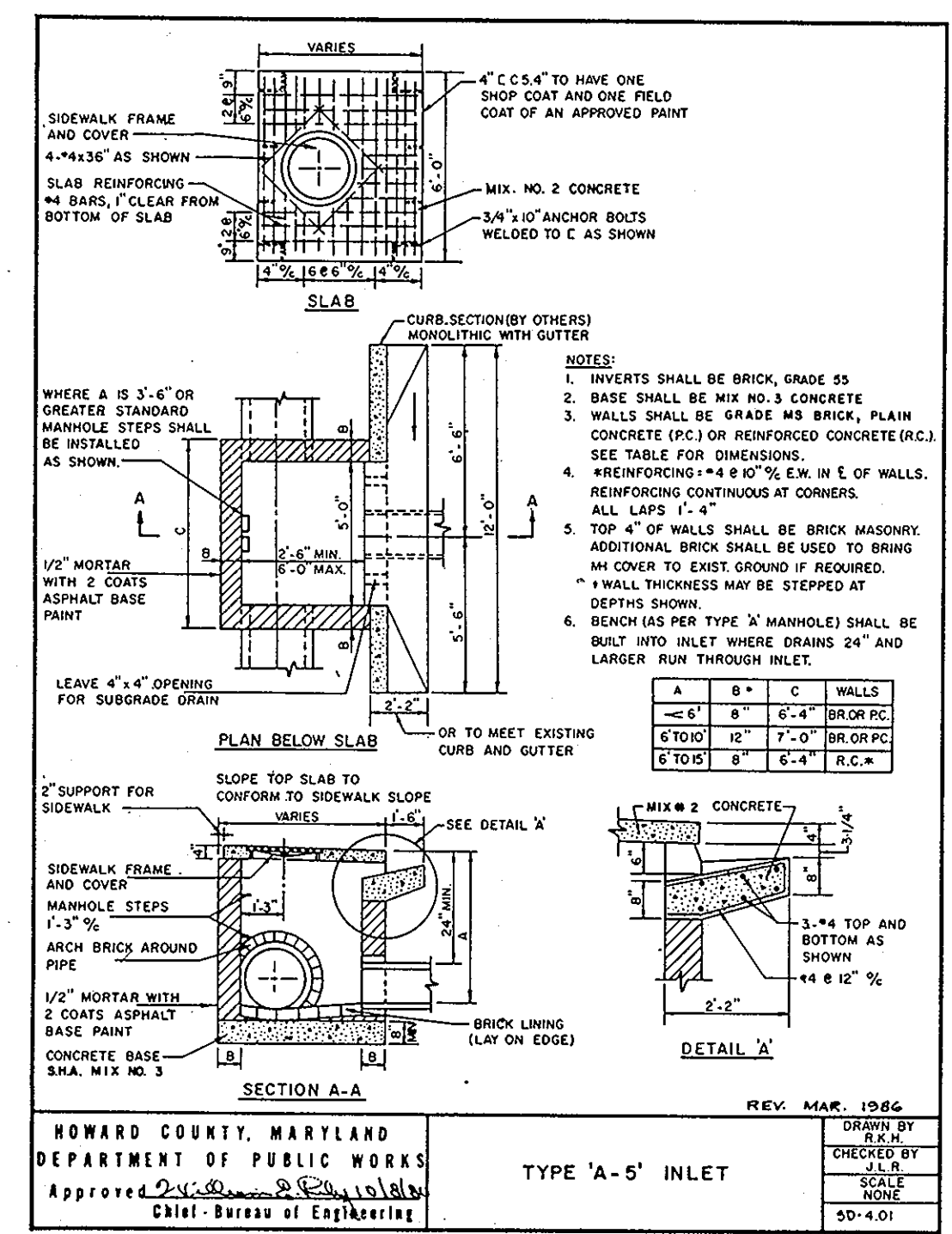
STRUCT. NUMBER	DRAIN AREA	VOL. REQ'D	VOL. PROV.	DIMENSIONS							FLOOR SLAB ELEV.	18" ACCMP ELBOW INV.	THROAT LENGTH req'd	TOP SLAB ELEV.	
				A	B	C*	D*	E	F	G					
1	0.24 AC.	96 CF	112.5 CF	13'-2"	3'-10"	3'-6"	4'-0"	3'-0"	4'-2"	6'-0"	472.0	476.0	N/A	481.4	480.9



PROFILE SCALE: H. 1"=50' V. 1"=5'



SECTION A-A SIDEWALK FRAME & COVER



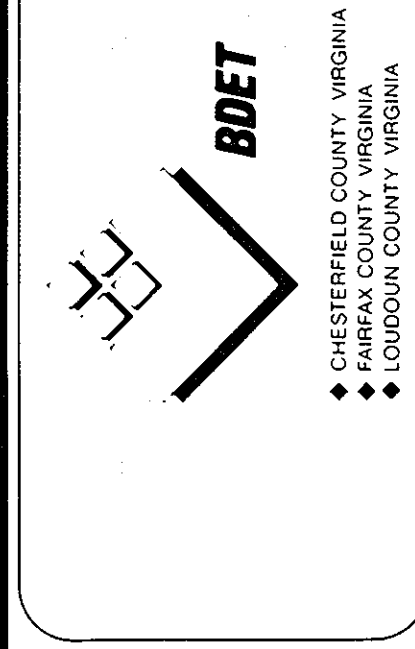
SECTION A-A TYPE 'A-5' INLET

APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *James P. ...* DATE: 10/29/90
 CHIEF: *...* DATE: 10-29-90

APPROVED: For Public Water and Public Sewerage Systems
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *...* DATE: 11-5-90

APPROVED: Howard County Department of Planning and Zoning
 DIRECTOR: *...* DATE: 11.21.90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *...* DATE: 11/16/90

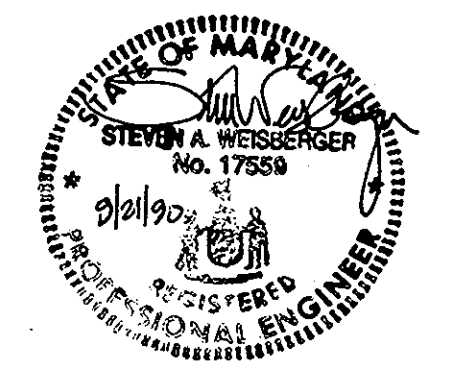
BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10801 LOCKWOOD DRIVE, SUITE 202, SILVER SPRING, MARYLAND 20901
 OFFICE LOCATIONS: WASHINGTON, VIRGINIA; FAIRFAX COUNTY, VIRGINIA; MONTGOMERY COUNTY, MARYLAND; LOUDOUN COUNTY, VIRGINIA



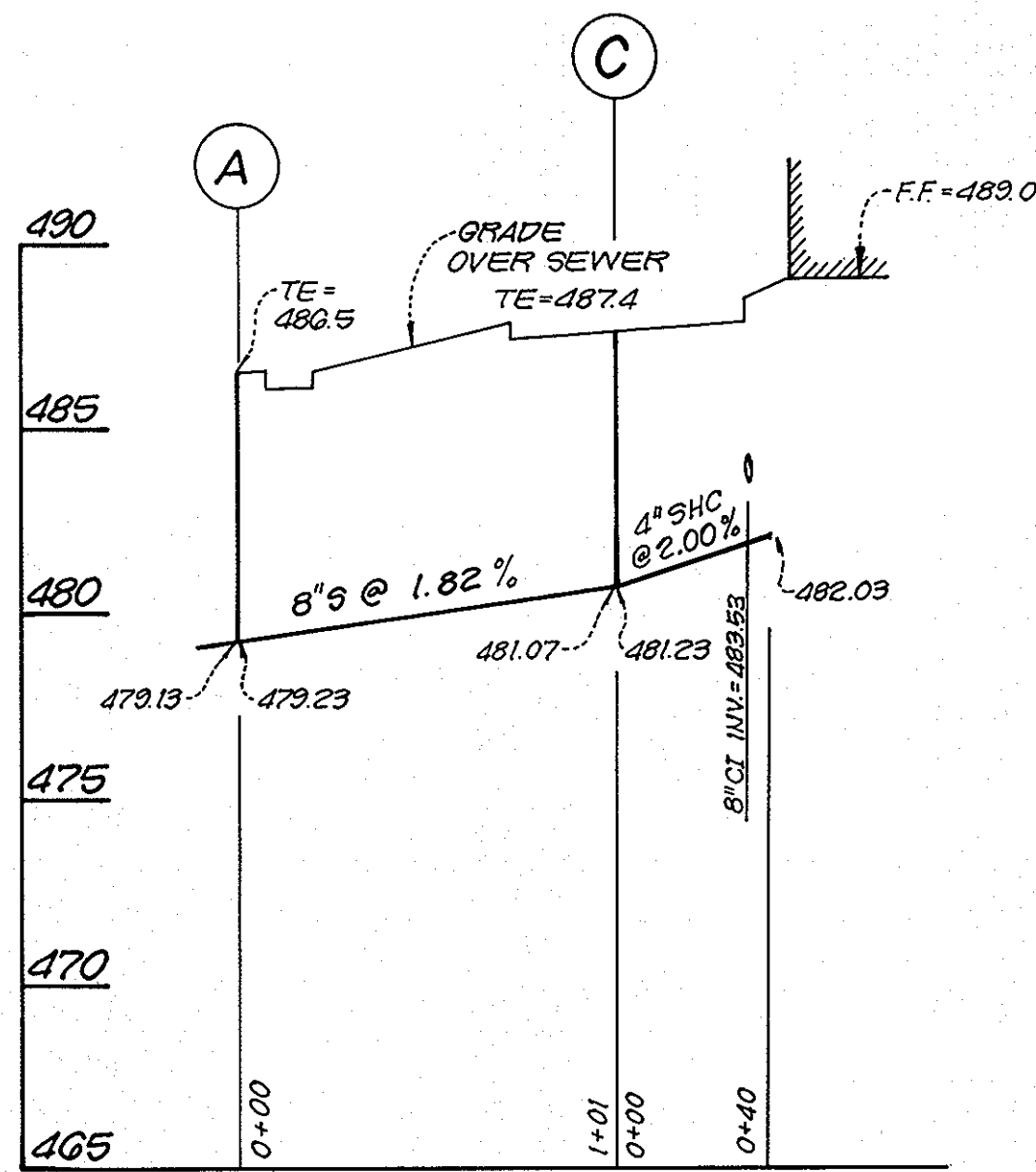
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DETAILS
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1025
 OWNER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

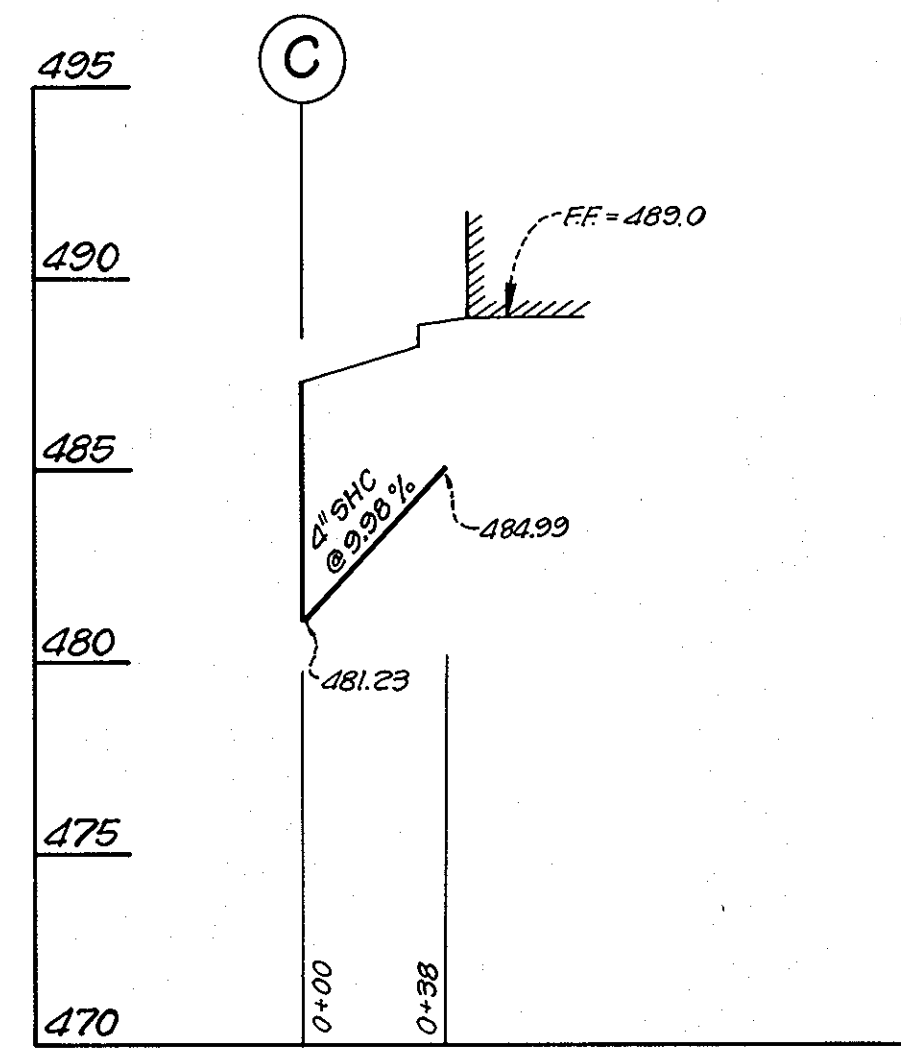
DATE: APRIL, 1990
 SCALE: AS SHOWN
 DESIGN: J.A.B. DRAWN: REM
 CHECK: J.A.B. CHECK:
 JOB NO.:
 P.R. NO.: SSO8935000
 SHEET 6 OF 15
 FILE NO.:



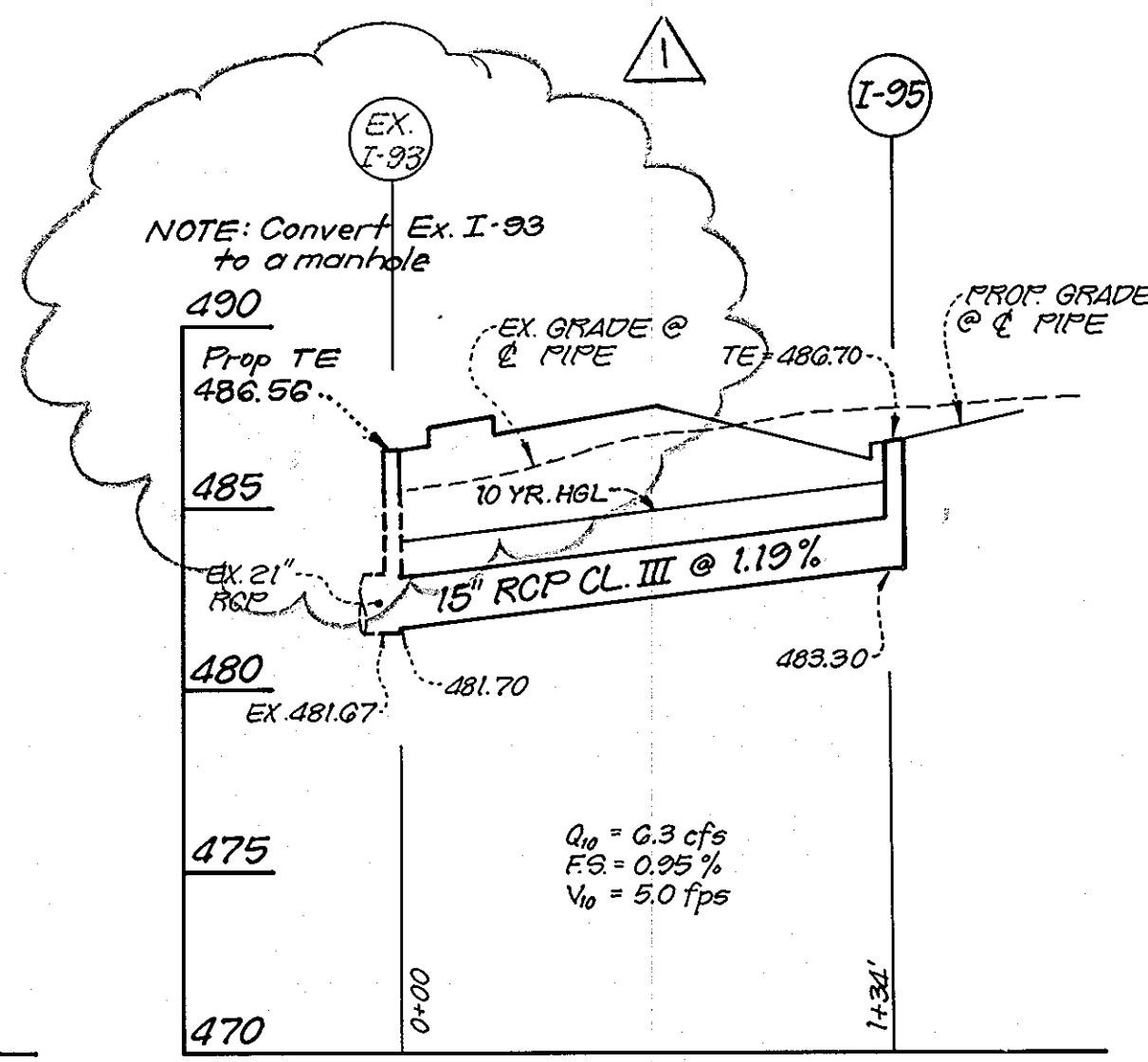
*NOTE: THE TOP OF FRAME / COVER FOR M97 IS SET AT THE BOTTOM OF THE PAVING SECTION.



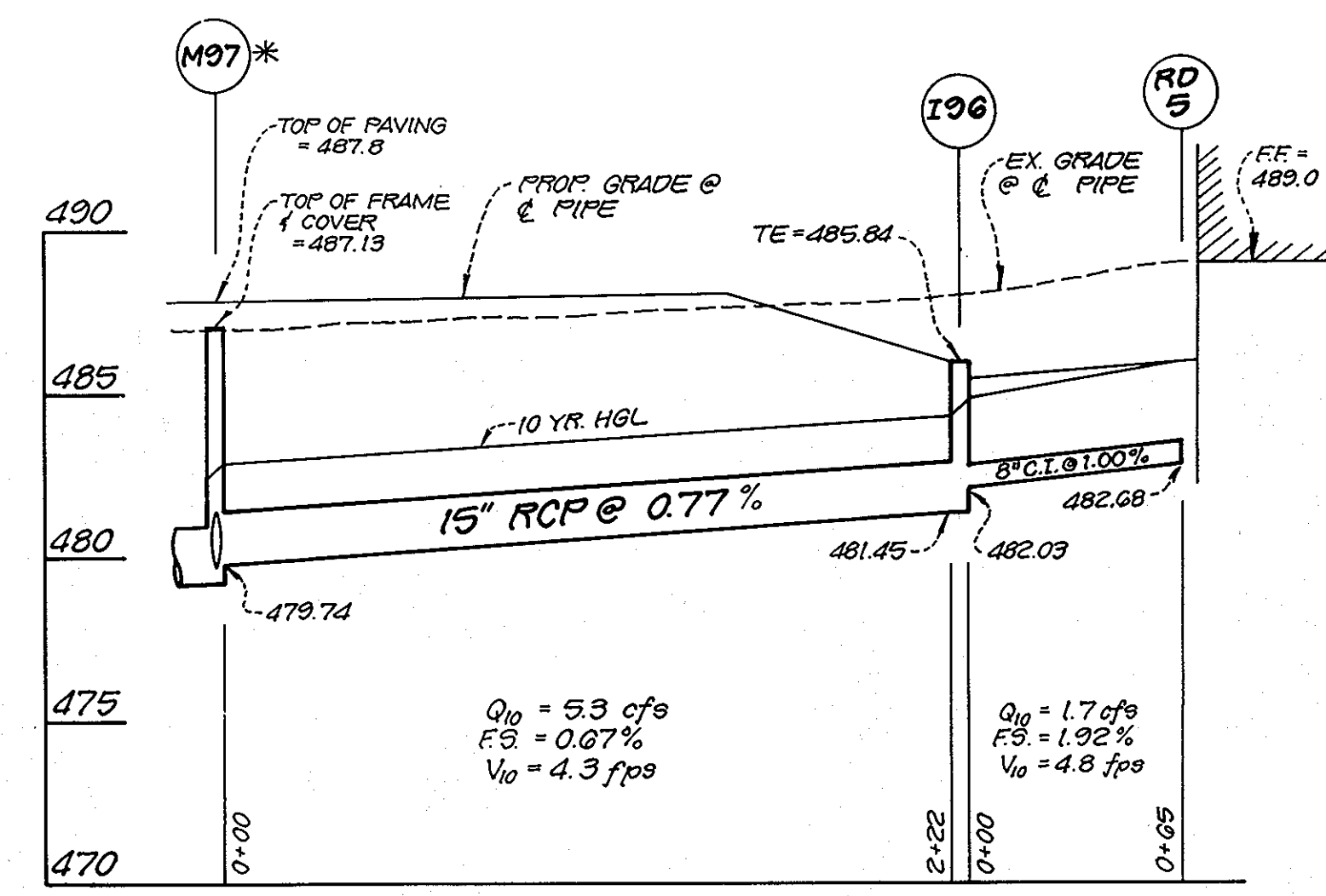
SANITARY SEWER PROFILE
SCALE: H: 1"=50'
V: 1"=5'



SANITARY SEWER PROFILE
SCALE: H: 1"=50'
V: 1"=5'



STORM DRAIN PROFILE
SCALE: H: 1"=50'
V: 1"=5'



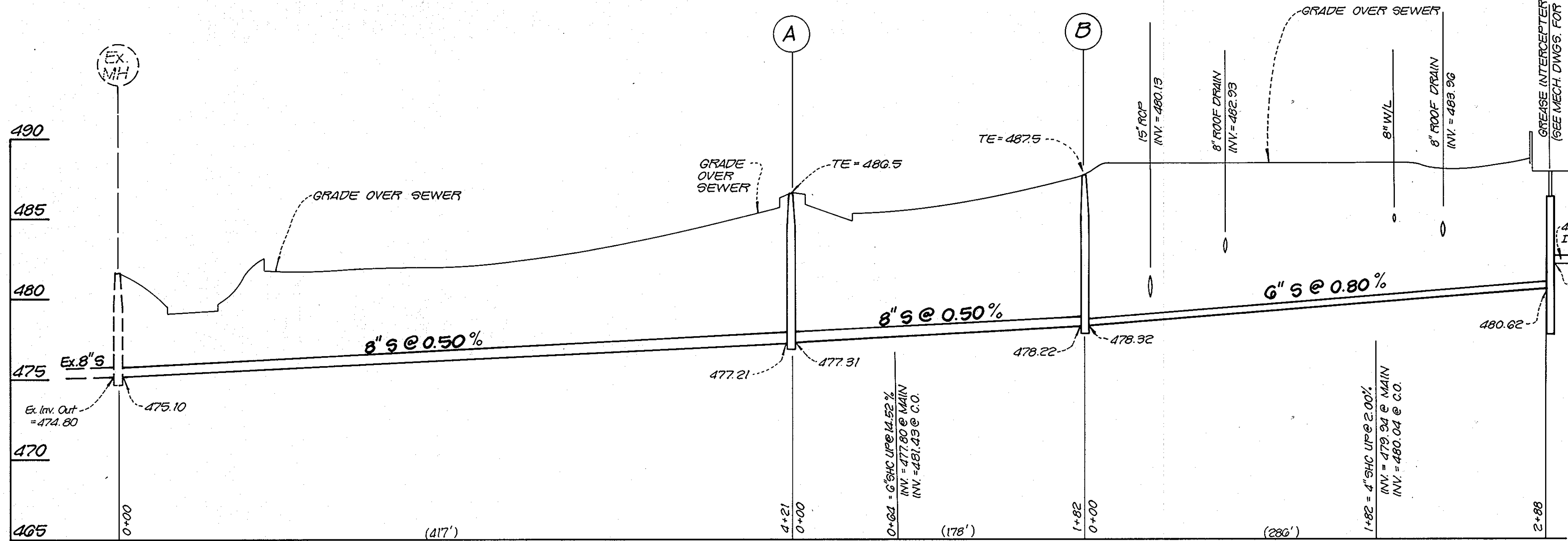
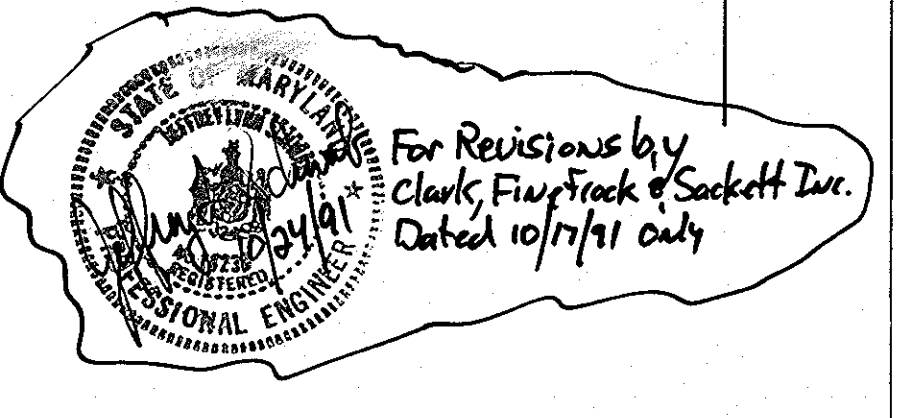
STORM DRAIN PROFILE
SCALE: H: 1"=50'
V: 1"=5'

APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: James J. ... 10-29-90
CHIEF, BUREAU OF ENGINEERING

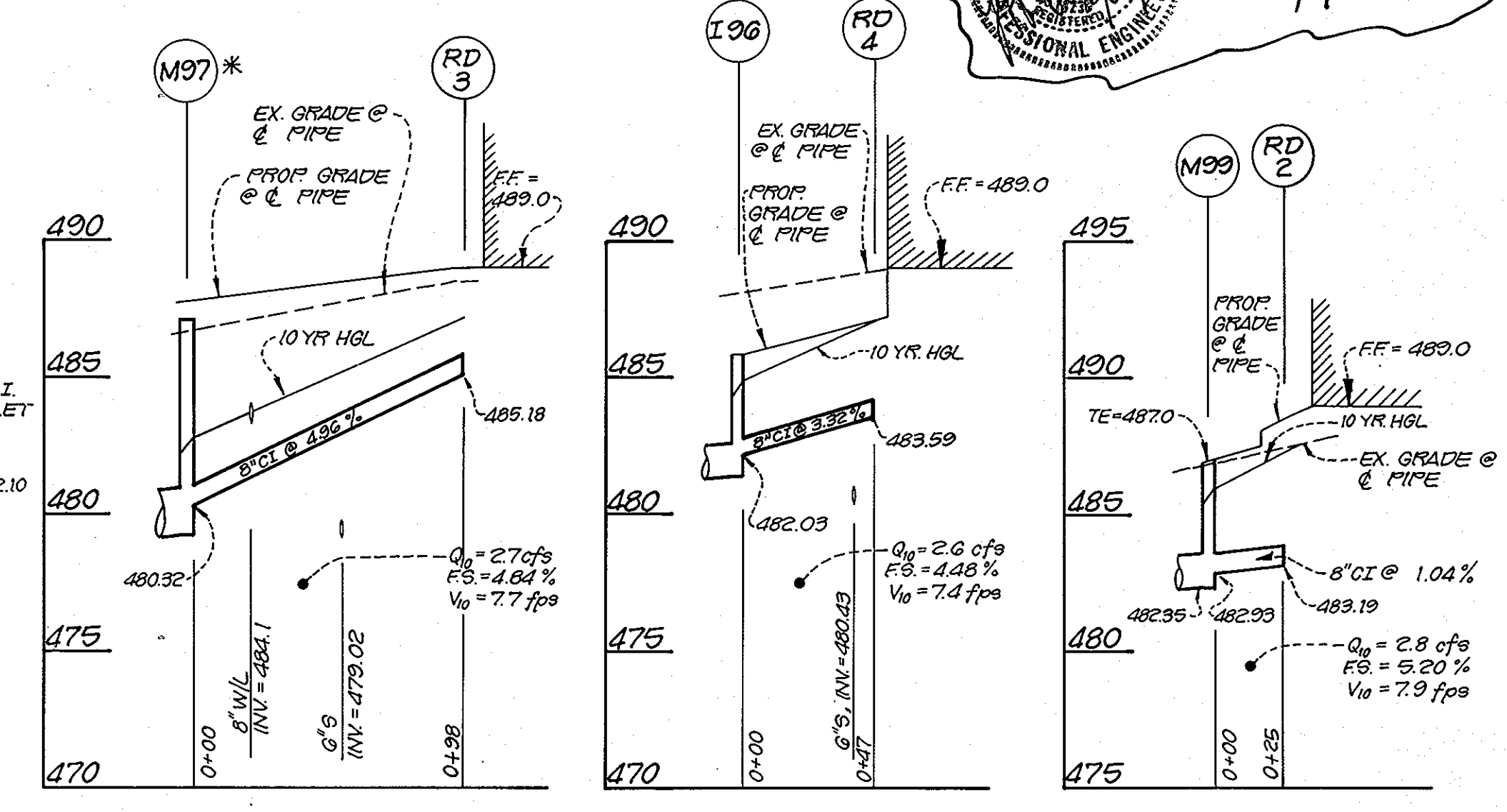
APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: ... 11-5-90

APPROVED: Howard County Department of Planning and Zoning
DIRECTOR: ... 11-21-90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

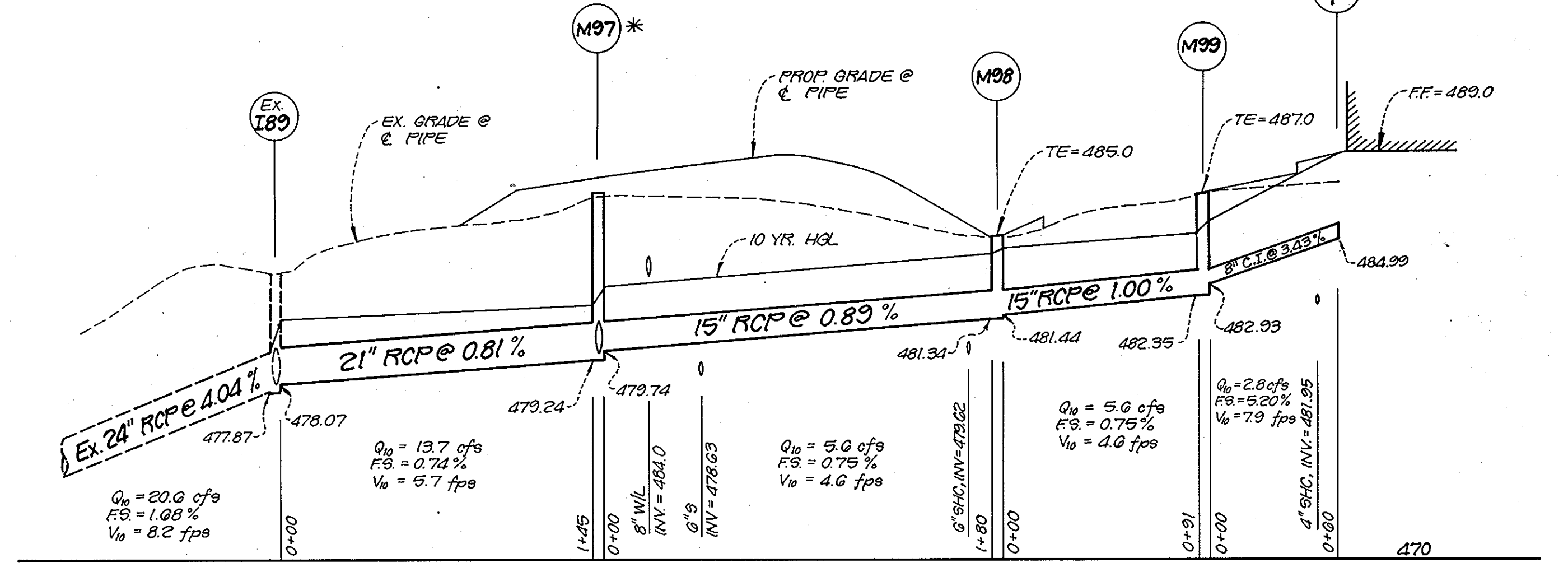
N2	REVISIONS	Date
1	Rev. profiles as per revised SDP (By Clark, Fintrack & Sackett, Inc.)	10-17-91



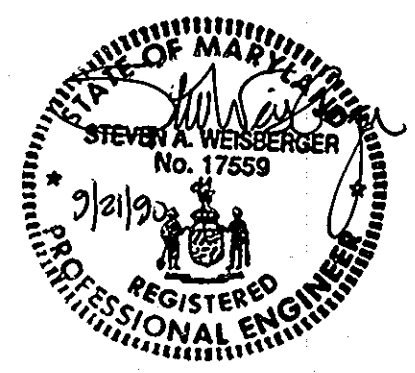
SANITARY SEWER PROFILE
SCALE: H: 1"=50'
V: 1"=5'



STORM DRAIN PROFILES
SCALE: H: 1"=50'
V: 1"=5'



STORM DRAIN PROFILE
SCALE: H: 1"=50'
V: 1"=5'



NOTE: REFER TO SHEET G OF 15 FOR ADDITIONAL STORM DRAIN PROFILE.

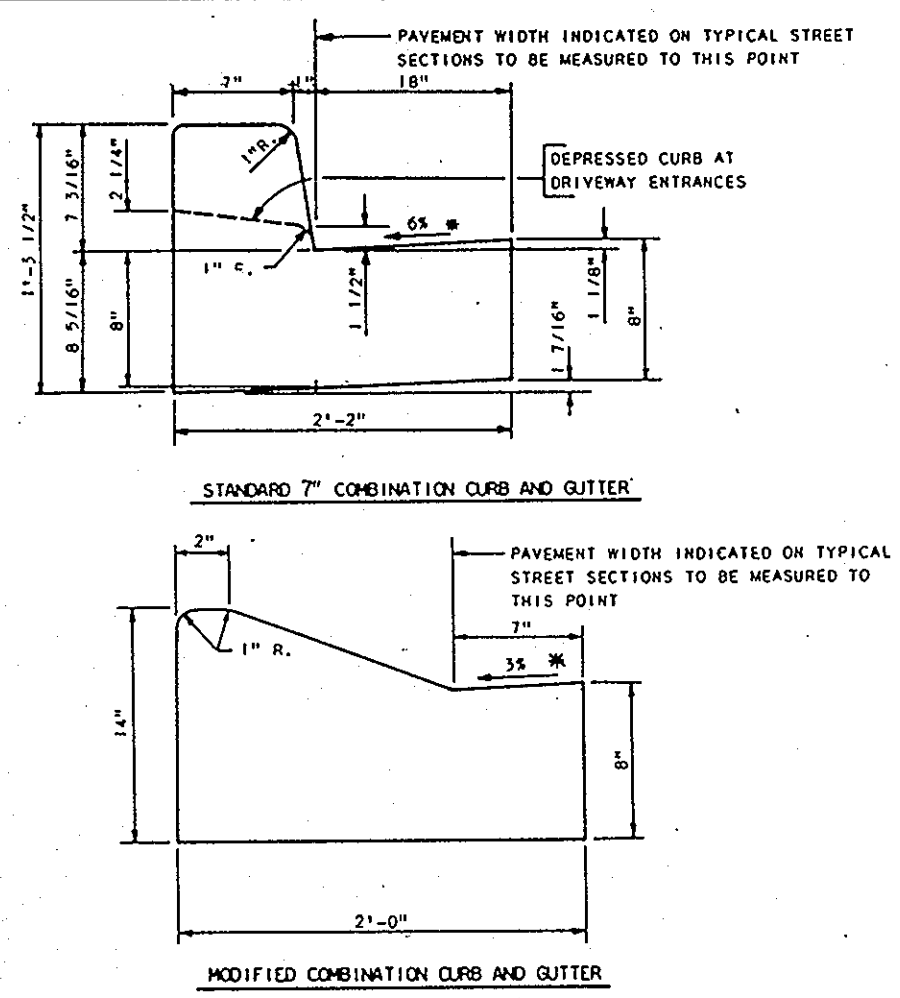
- ALL CONSTRUCTION METHODS AND MATERIALS FOR ON-SITE PRIVATE WATER AND SEWER SYSTEMS SHALL CONFORM TO THE CURRENT EDITION OF THE HOWARD COUNTY PLUMBING CODE, DETAILS AND SPECIFICATIONS.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.5' OF COVER.
- ALL WATER MAINS SHALL BE D.I.P., RATED CLASS 50.
- BLOCK ALL FITTINGS WITH CONCRETE.
- ALL SEWER MAINS AND SEWER HOUSE CONNECTIONS SHALL BE PVC (SDR-35)

UTILITY PROFILES
NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 24 PARCEL 1035
OWNER
HOWARD COUNTY DEPT. OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
SCALE: AS SHOWN
DESIGN: MKH DRAWN: RER/REM
CHECK: SAW CHECK:
JOB NO.:
PR. NO.: 6508935000
SHEET 7 OF 15
FILE NO.:

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
10801 LOCKWOOD DRIVE, SUITE 320, SILVER SPRING, MARYLAND 20901
(301) 681-8515
OFFICE LOCATIONS
◆ CHESTERFIELD COUNTY, VIRGINIA
◆ PRINCE WILLIAM COUNTY, VIRGINIA
◆ MONTGOMERY COUNTY, MARYLAND
◆ ANNE ARUNDEL COUNTY, MARYLAND
◆ LOUDOUN COUNTY, VIRGINIA

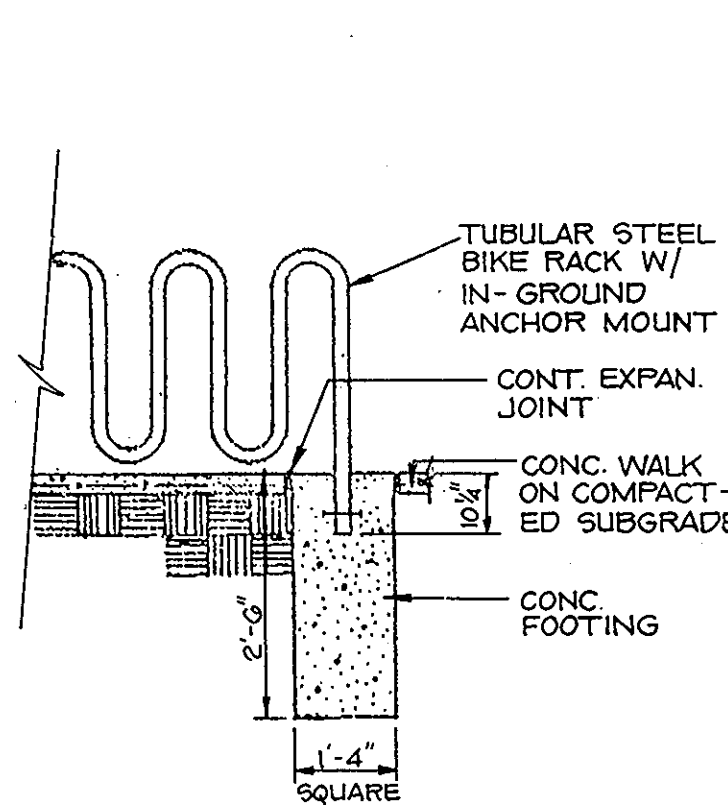
NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND



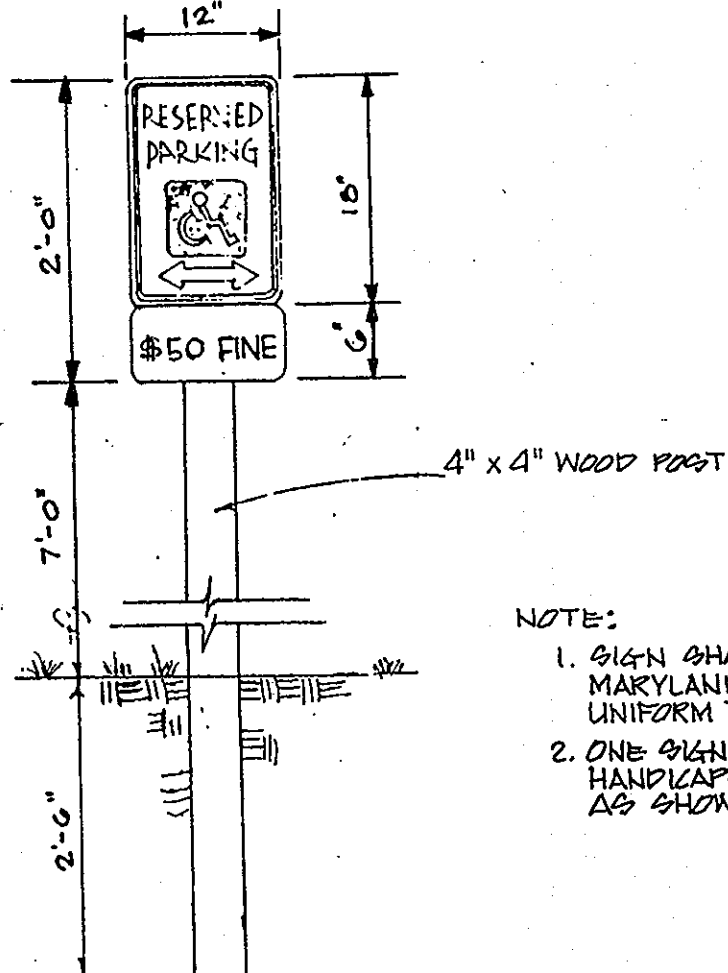
HOWARD COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS
Approved: *[Signature]*
Chief-Branch of Engineering

COMBINATION CURB AND GUTTER

DESIGN BY: W.J. FALLON
CHECKED BY: J.L. BROWN
NO SCALE
DATE: 8-3-90

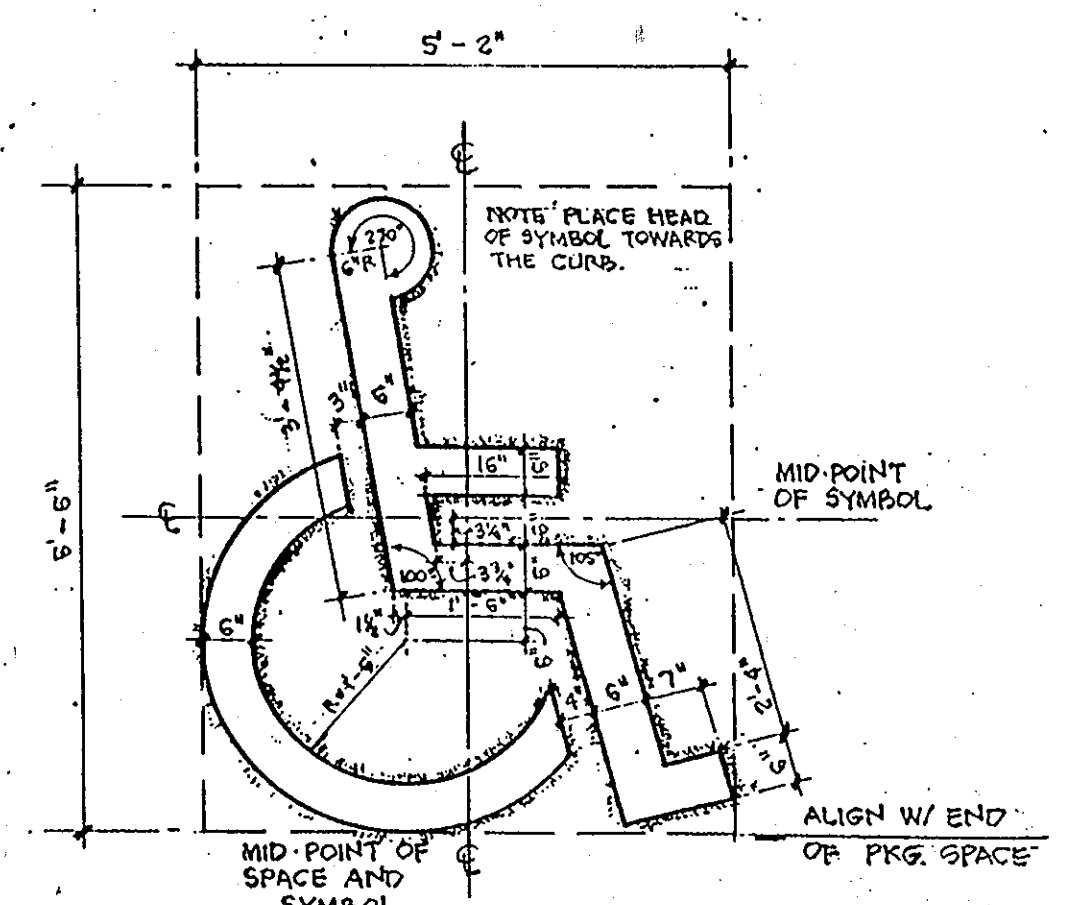


BIKE RACK DETAIL
N.T.S.



HANDICAPPED PARKING SIGN DETAIL
NO SCALE

NOTE:
1. SIGN SHALL CONFORM TO MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ONE SIGN REQUIRED FOR EACH HANDICAPPED SPACE PLACED AS SHOWN (5 SPACES)



Handicapped Stencil Layout
SCALE 1/2" = 1'-0"

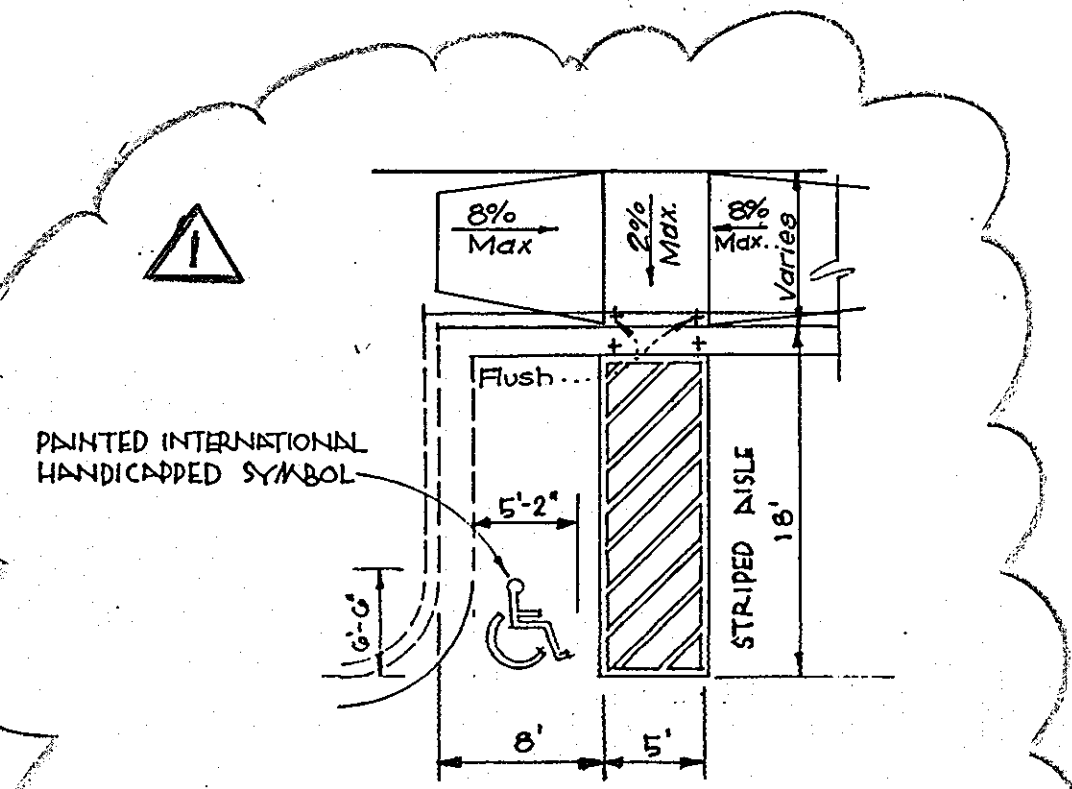
For Public Water and Public Sewerage,
APPROVED: Storm Drainage Systems and Public Roads

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *[Signature]* DATE: 10/29/90
CHIEF, BUREAU OF ENGINEERING

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT
COURTNEY HEALTH OFFICER: *[Signature]* DATE: 11-5-90

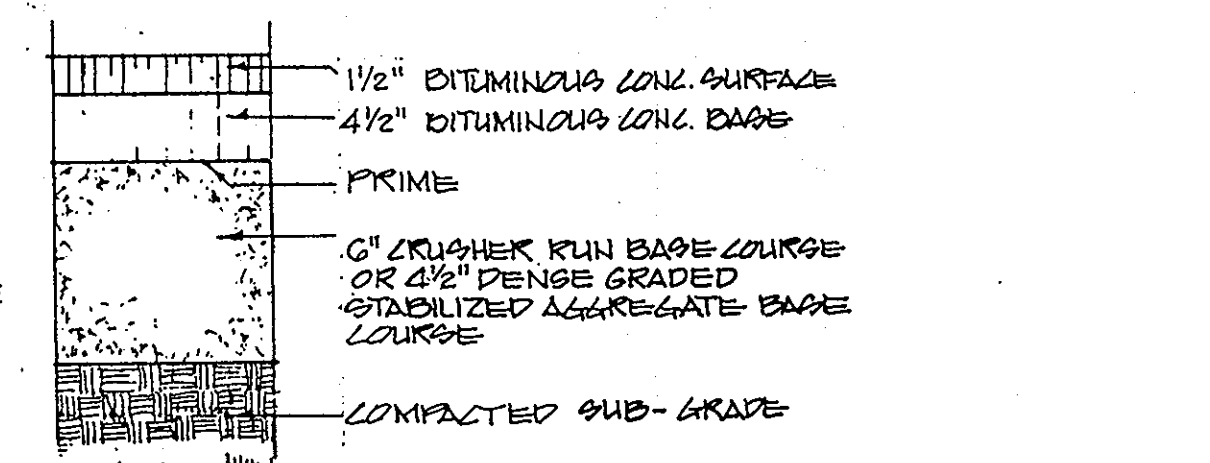
APPROVED: Howard County Department of Planning and Zoning
DIRECTOR: *[Signature]* DATE: 11.21.90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

N2	REVISIONS	Date
1	Rev. Hc Detail as per rev. SDP By (Clark, Finefrock & Sackett, Inc.) Add Wheelstop Installation Detail	10-17-91

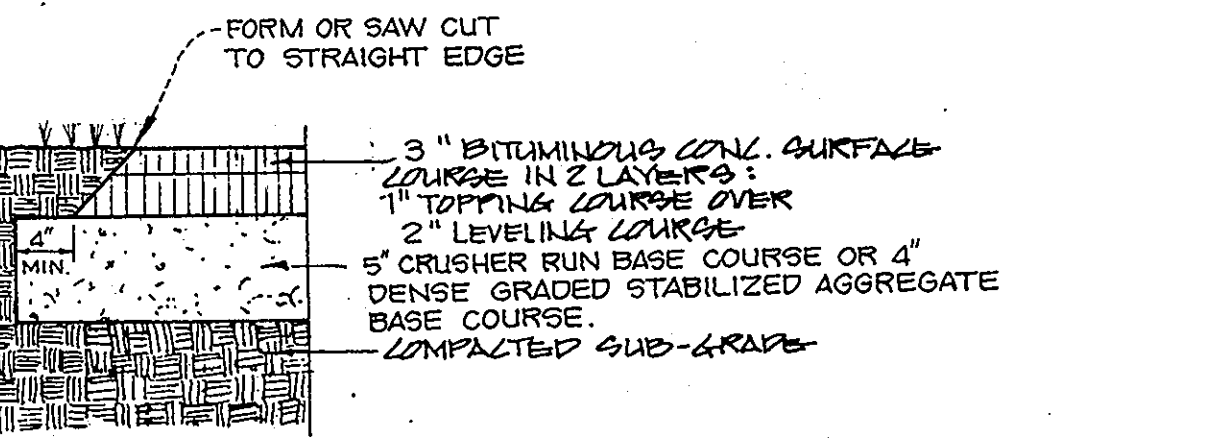
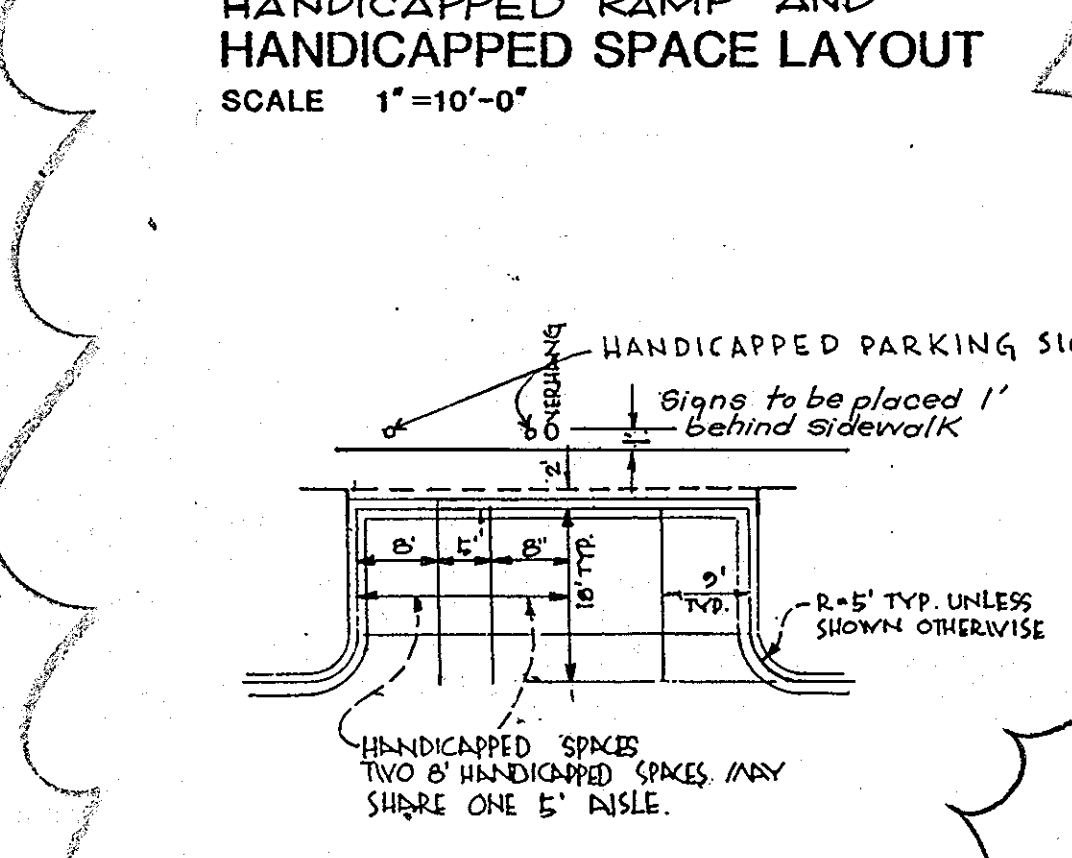
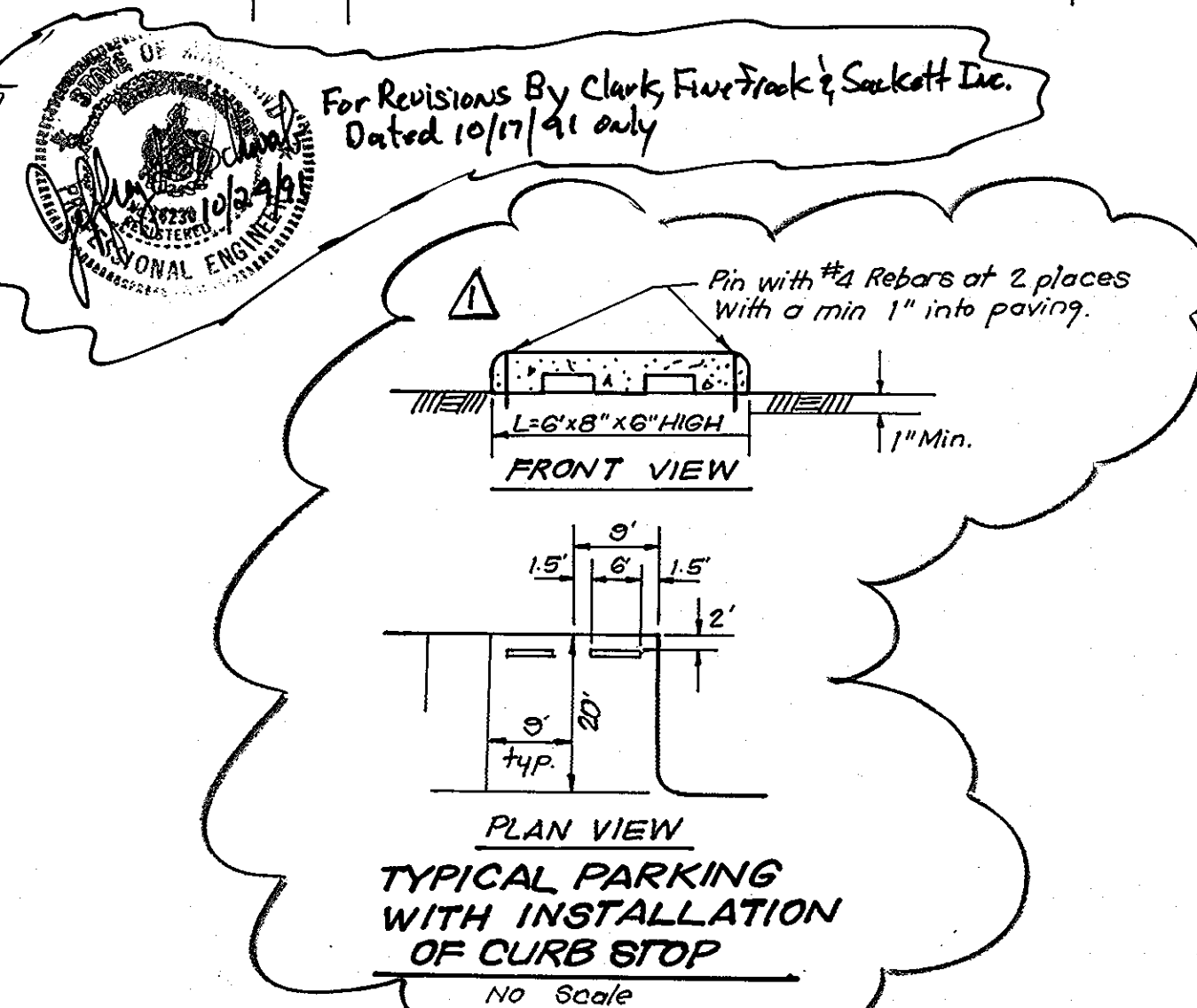
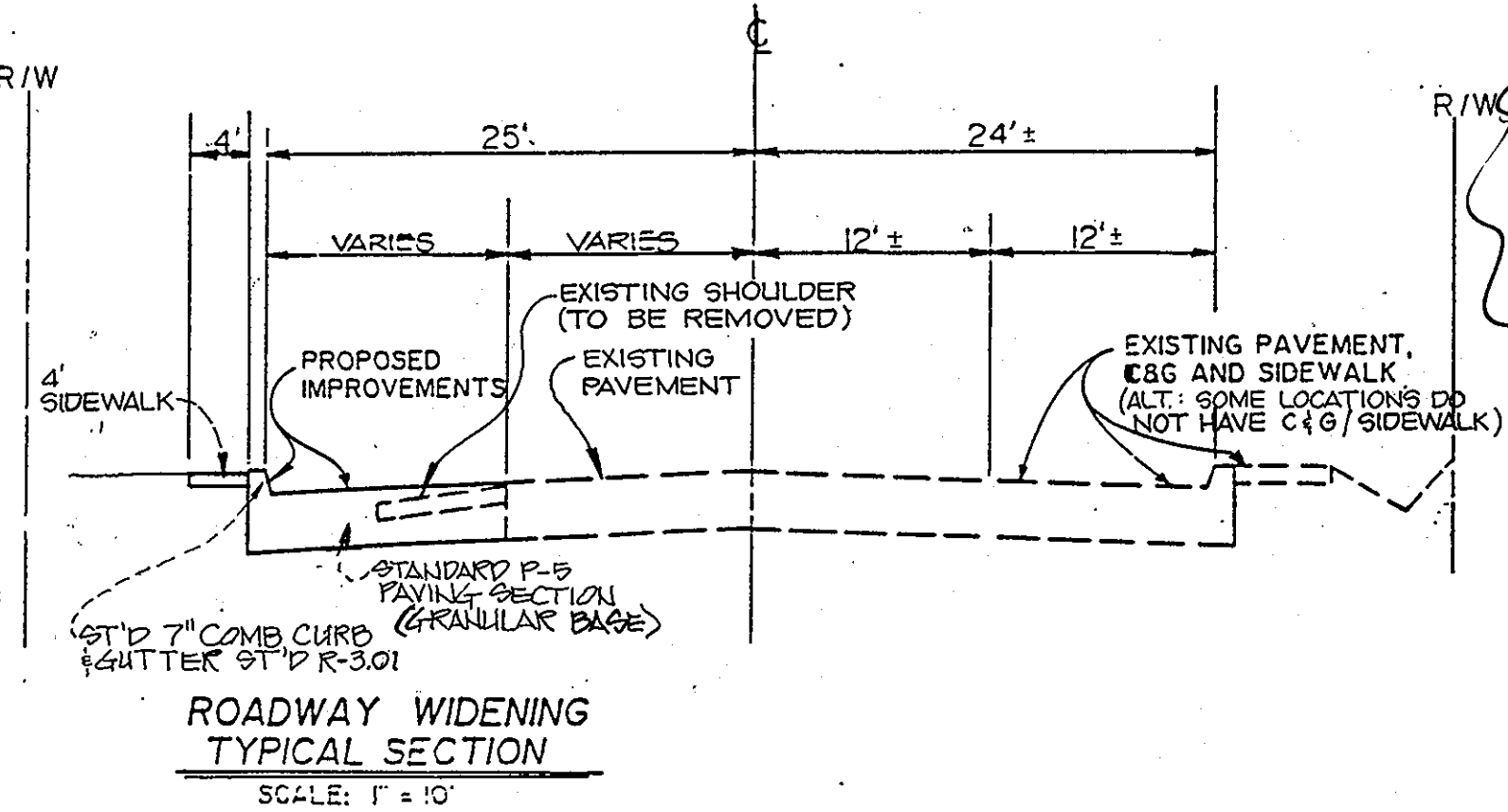


ASPHALT PAVING - CENTENNIAL IMPROVEMENTS P-5

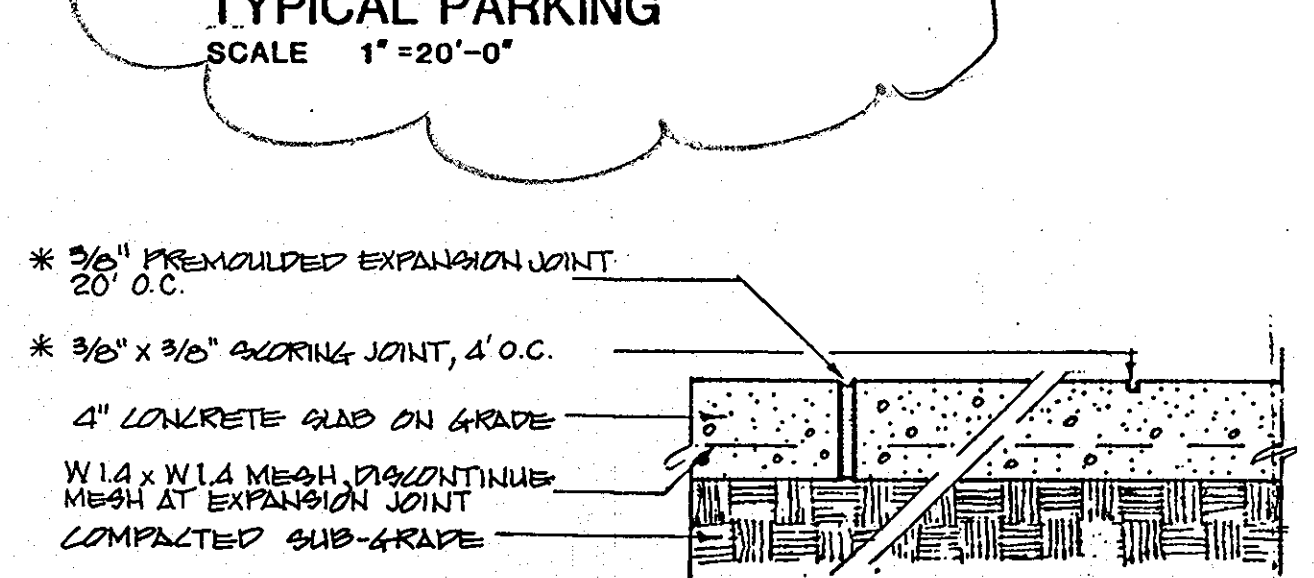
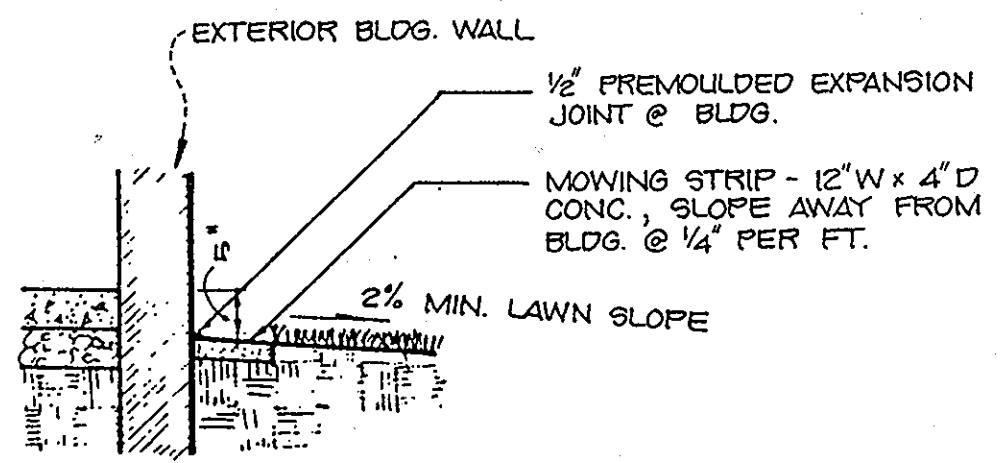
NOTE: REFER TO HOWARD COUNTY STD. G4.01 FOR PAVEMENT CUTTING AND REPAIRING.



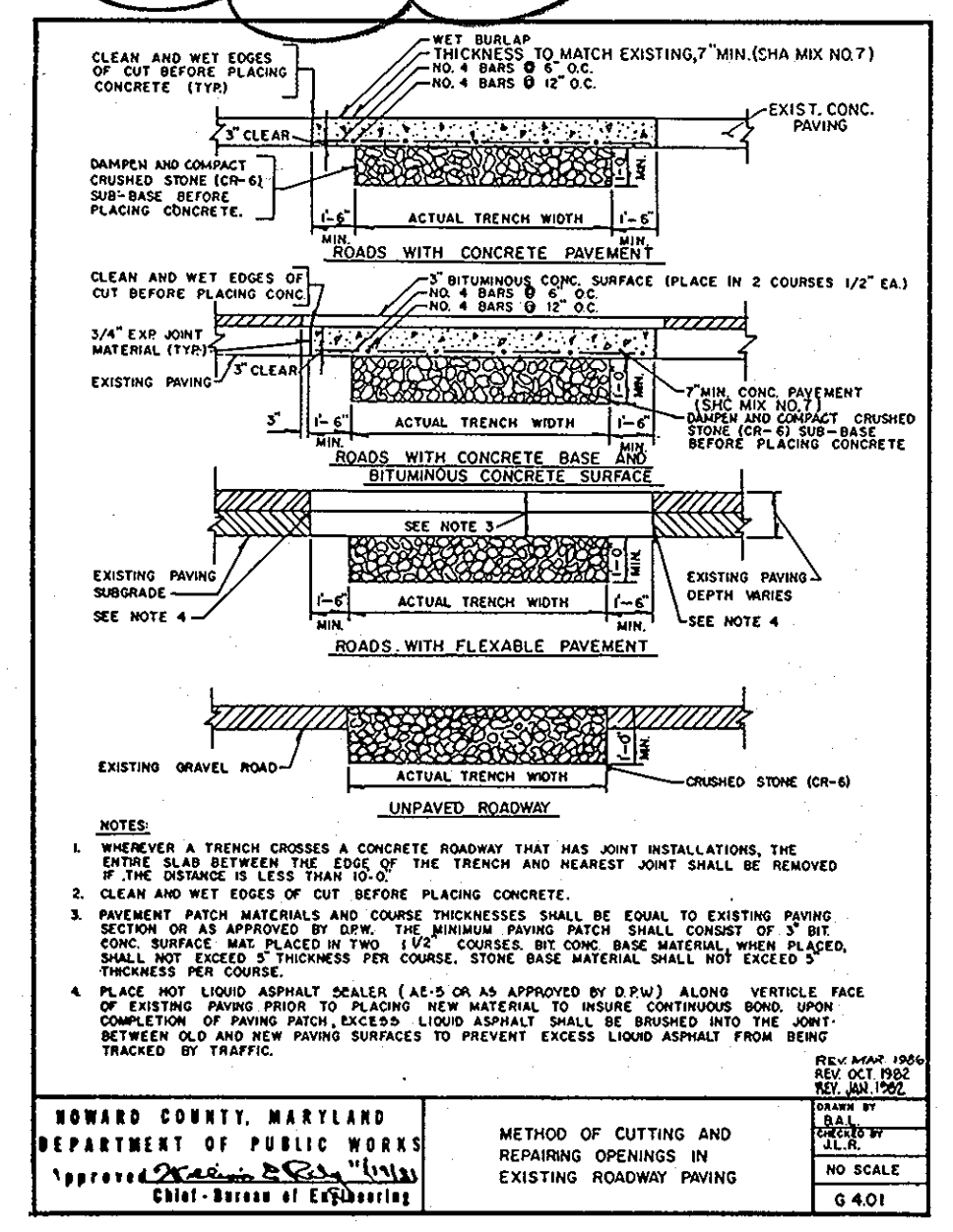
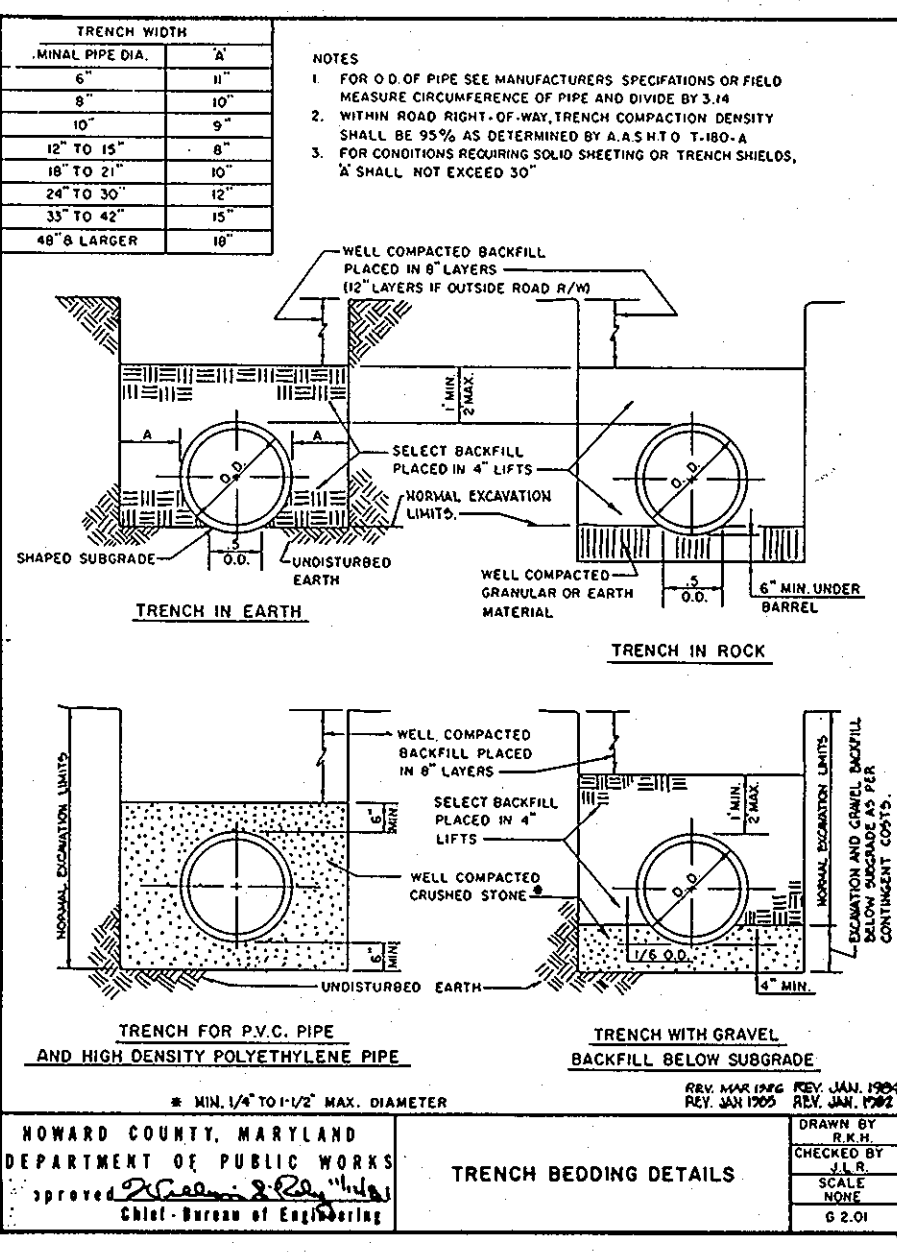
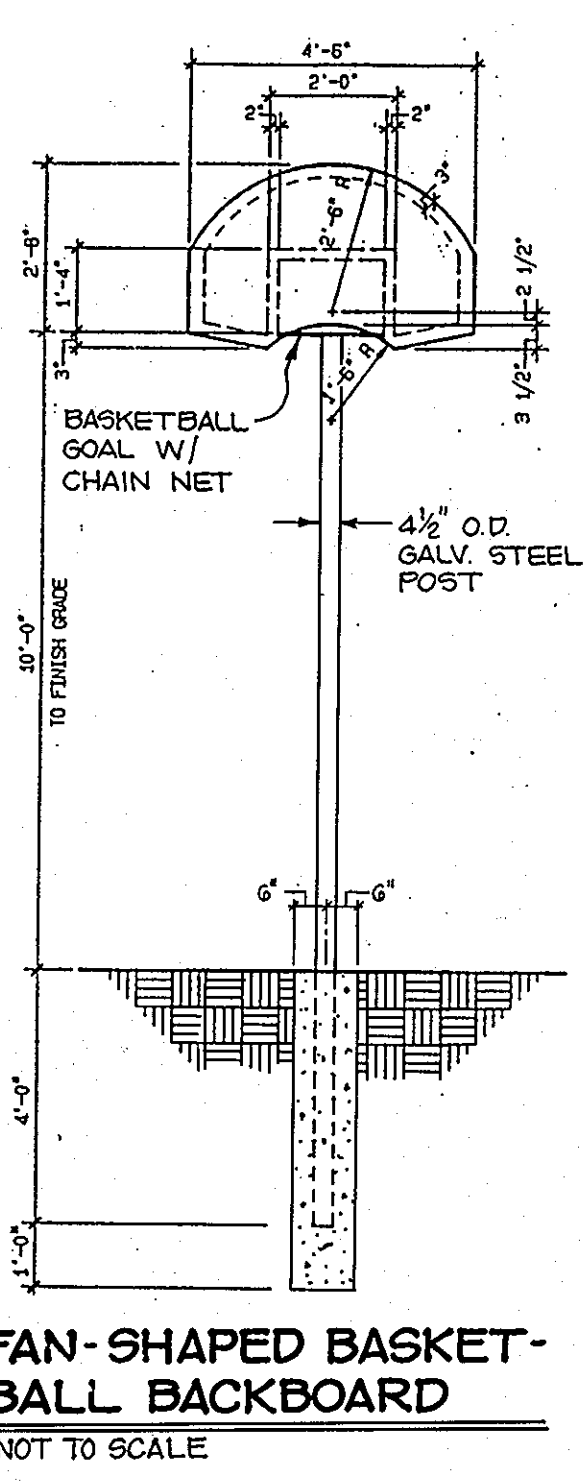
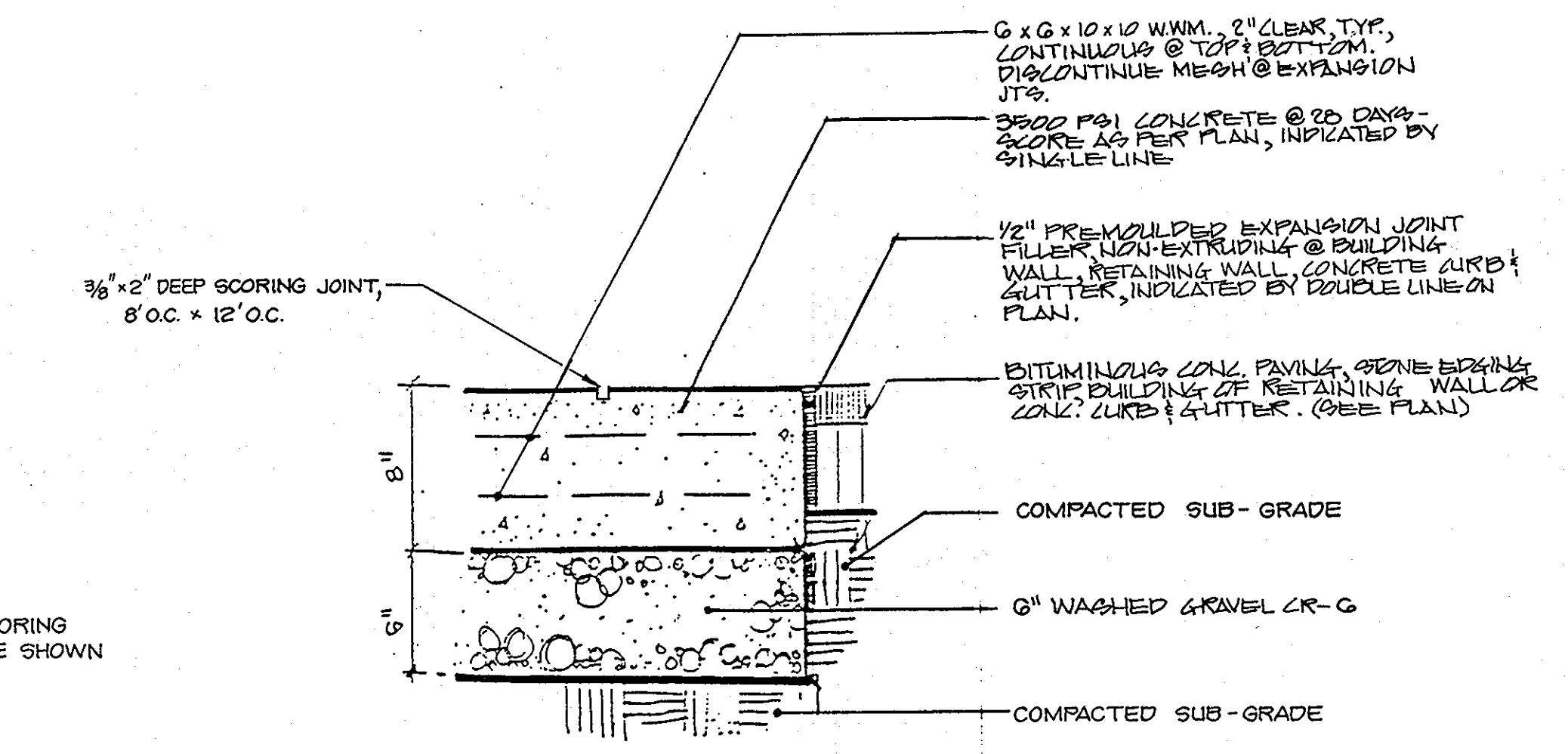
ASPHALT PAVING - BUS LOOP, PARKING, ENTRANCE ROAD & LOADING AREA (P-3)



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



*NOTE: USE THIS EXPANSION JOINT / SCORING PATTERN, UNLESS OTHERWISE SHOWN ON PLANS.



SITE PLAN DETAILS
NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 24 PARCEL 1095
OWNER
HOWARD COUNTY DEPT. OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
10801 LOCKWOOD DRIVE, SUITE 320, SILVER SPRING, MARYLAND 20901
(301) 991-8515

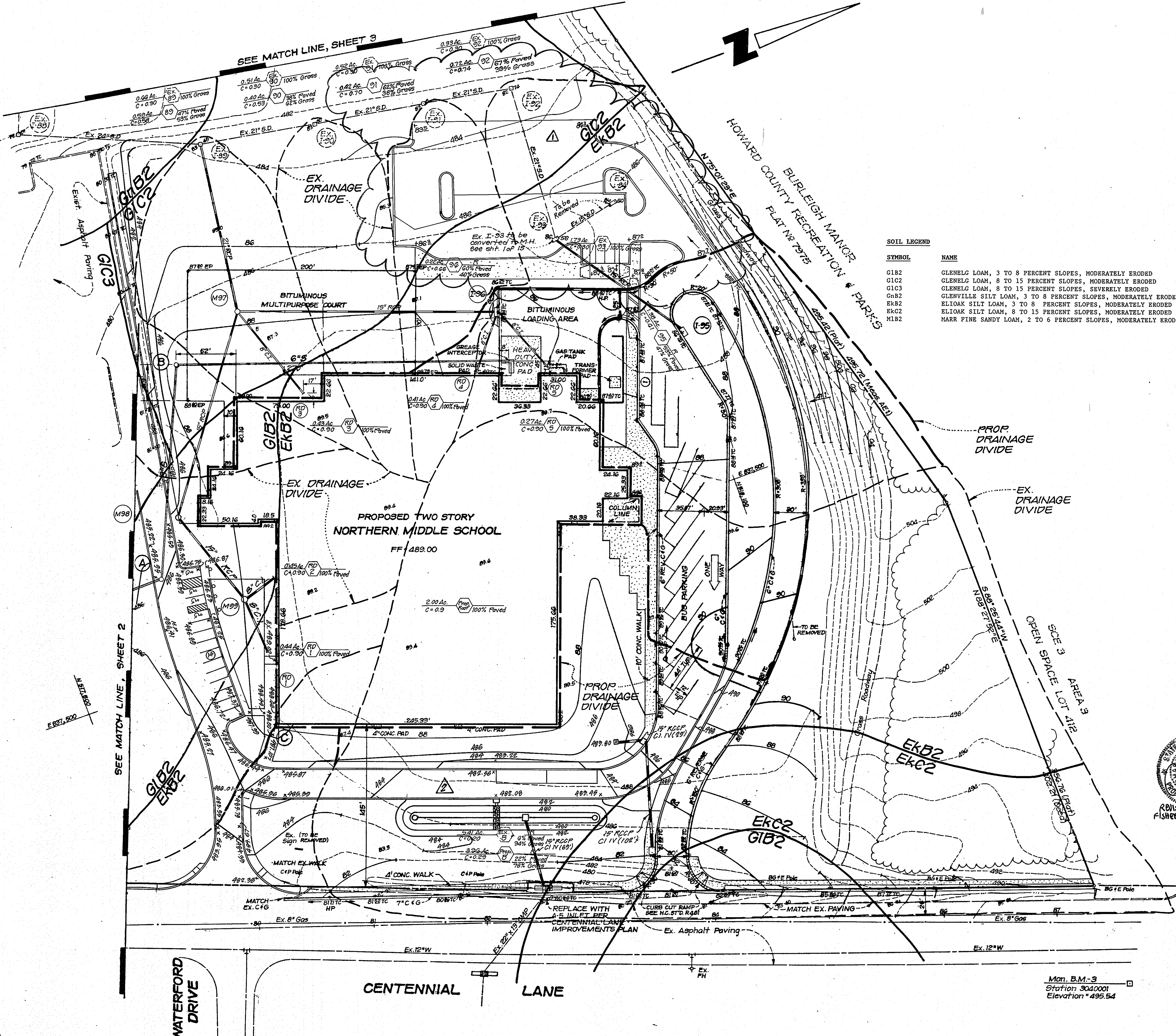
OFFICE LOCATIONS:
• PRINCE GEORGES COUNTY, VIRGINIA
• FAIRFAX COUNTY, VIRGINIA
• MONTGOMERY COUNTY, MARYLAND
• ANNE ARUNDEL COUNTY, VIRGINIA
• LOUDOUN COUNTY, VIRGINIA

BDOT

NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DATE: APRIL, 1990
SCALE: AS SHOWN
DESIGN: MKH DRAWN: WH/REM
CHECK: SAW CHECK:
JOB NO.:
P.R. NO.: 5508935000
SHEET 8 OF 15
FILE NO.:





SOIL LEGEND

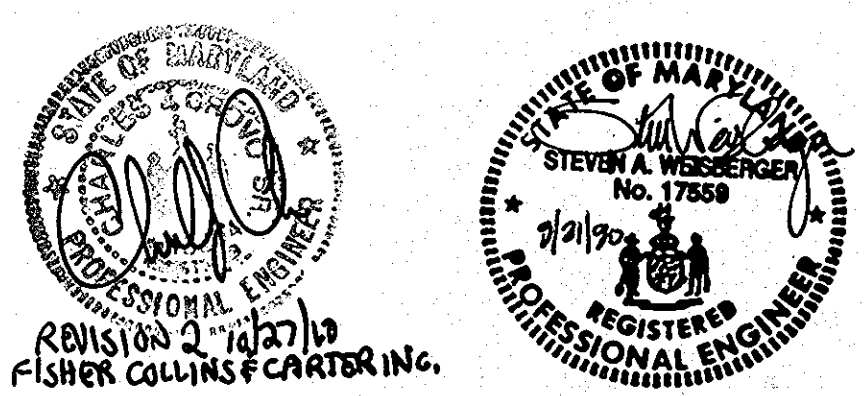
SYMBOL	NAME
G1B2	GLENELG LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
G1C2	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
G1C3	GLENELG LOAM, 8 TO 15 PERCENT SLOPES, SEVERELY ERODED
G1B2	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
EKB2	ELIOAK SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED
EKC2	ELIOAK SILT LOAM, 8 TO 15 PERCENT SLOPES, MODERATELY ERODED
M1B2	MARR FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES, MODERATELY ERODED

APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Floods
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: James J. [Signature] DATE: 10/28/90
 Chief: [Signature] DATE: 10/29/90
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: [Signature] DATE: 11-5-90
 APPROVED: Howard County DEPT. of Planning and Zoning
 Director: [Signature] DATE: 11-21-90
 Chief: [Signature] DATE: 11/21/90

REVISIONS

No	REVISIONS	Date
1	Rev. Drainage Areas and Added parking Area to Rear of Northern Middle School (By Clark, Finckel & Sackett, Inc.)	10-17-91
2	Revised Bus Loop F.C.C.	10-27-10

For Revisions by Clark, Finckel & Sackett, Inc. Dated 10/17/91



NOTE: "0" VALUES FOR THE EXISTING SYSTEM ARE BASED ON 1975 CRITERIA.

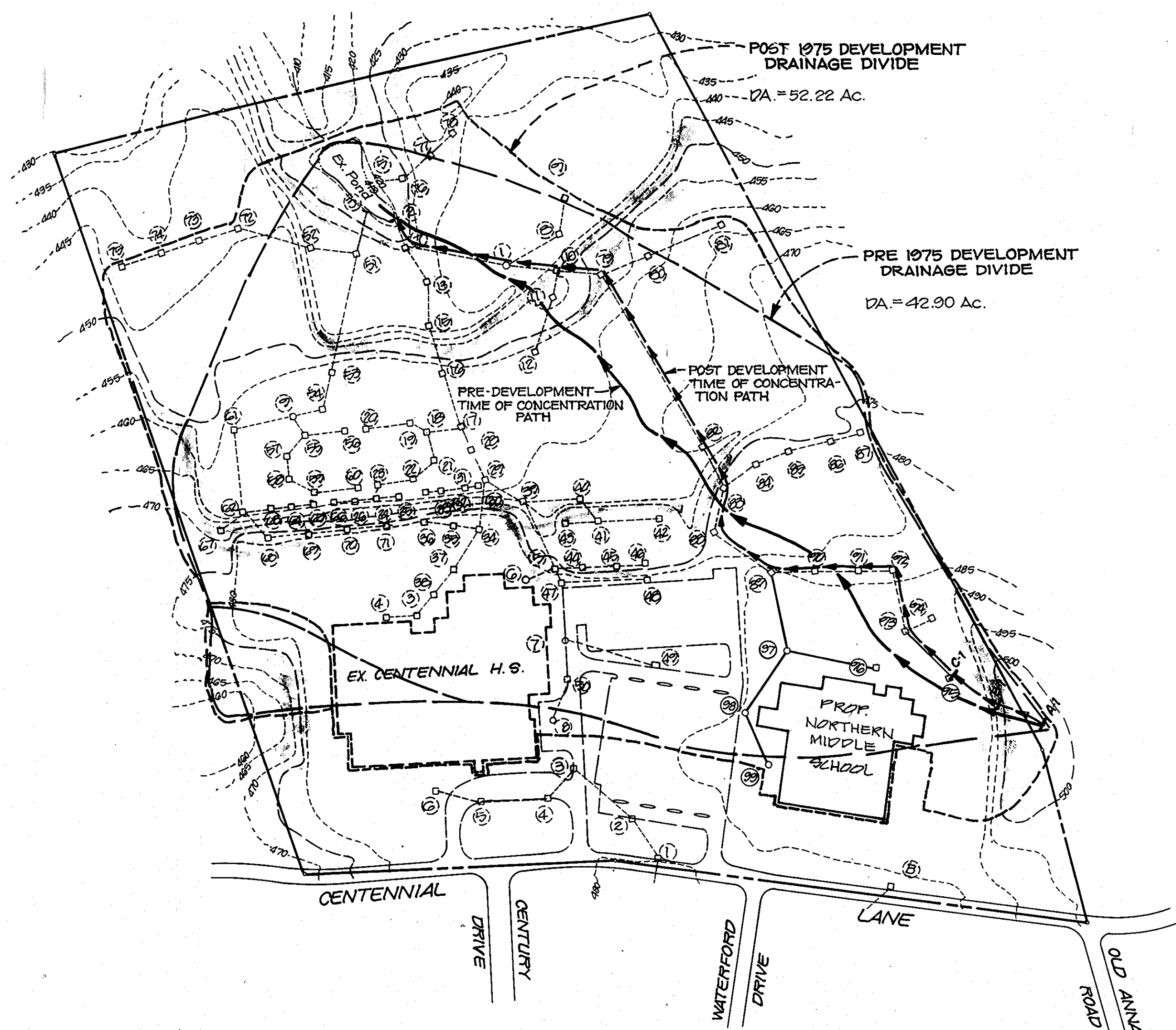
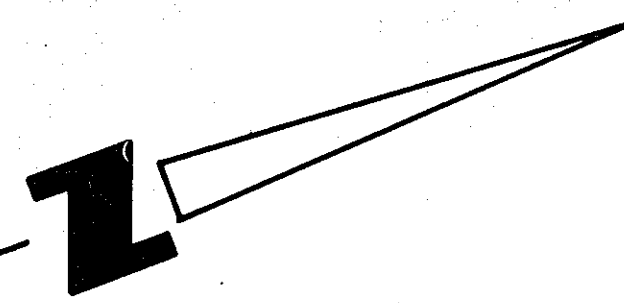
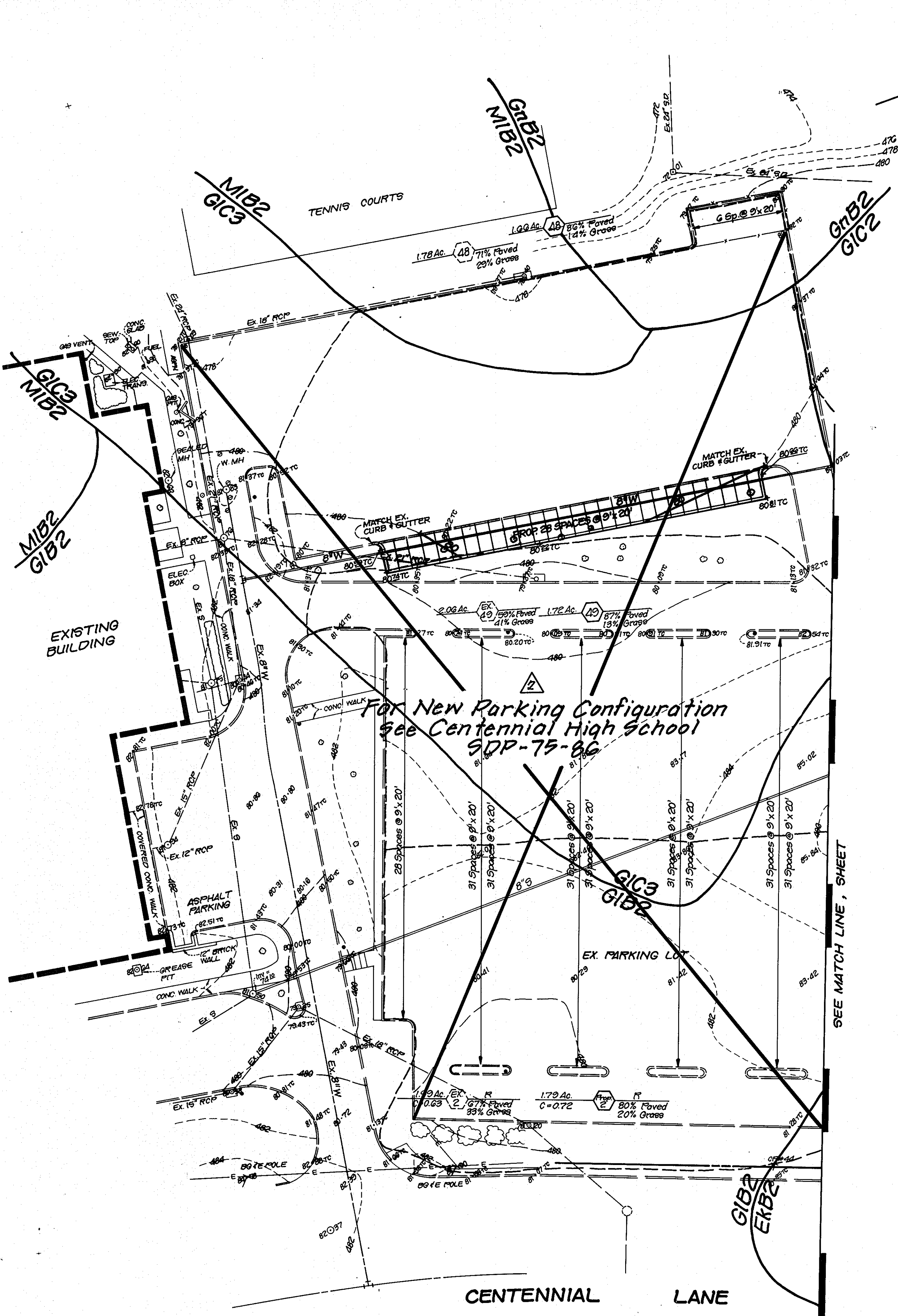
DRAINAGE AREA MAP
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1035
 OWNER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
 SCALE: 1" = 40'
 DESIGN: M.K.H. DRAWN: RBM
 CHECK: S.A.W. CHECK:
 JOB NO.:
 P.R. NO.: 6508935000
 SHEET 9 OF 15
 FILE NO.:

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10007 LOCKWOOD DRIVE, SUITE 202, SILVER SPRING, MARYLAND 20901
 OFFICE LOCATIONS:
 • GAITHERSBURG, MARYLAND
 • FAIRFAX COUNTY, VIRGINIA
 • VIRGINIA BEACH, VIRGINIA
 • MONTGOMERY COUNTY, MARYLAND
 • LYNNHURST, VIRGINIA

NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR DRAINAGE AREAS ONLY
 NOT FOR CONSTRUCTION



DRAINAGE AREA MAP
Scale: 1" = 200'

APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Floods
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 James M. [Signature] 10/29/90
 DIRECTOR DATE
 [Signature] 10-23-90
 CHIEF, BUREAU OF ENGINEERING DATE
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 [Signature] 11-5-90
 COUNTY HEALTH OFFICER DATE
 APPROVED: Howard County DEPT. of Planning and Zoning
 [Signature] 11.21.90
 DIRECTOR DATE
 [Signature] 11/16/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

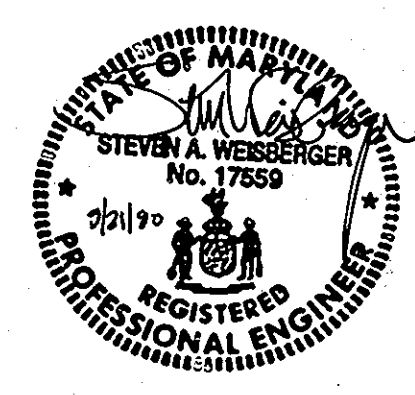
BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10807 LOCKWOOD DRIVE, SUITE 300, SILVER SPRING, MARYLAND 20901
 (301) 881-6515
 OFFICE LOCATIONS
 ◆ ANNE ARUNDEL COUNTY, VIRGINIA
 ◆ BRIDGE & ELKAM COUNTY, VIRGINIA
 ◆ CHESTERFIELD COUNTY, VIRGINIA
 ◆ HOWARD COUNTY, MARYLAND
 ◆ MONTGOMERY COUNTY, MARYLAND
 ◆ LOUDOUN COUNTY, VIRGINIA
BD&T

NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR DRAINAGE AREAS ONLY
 NOT FOR CONSTRUCTION

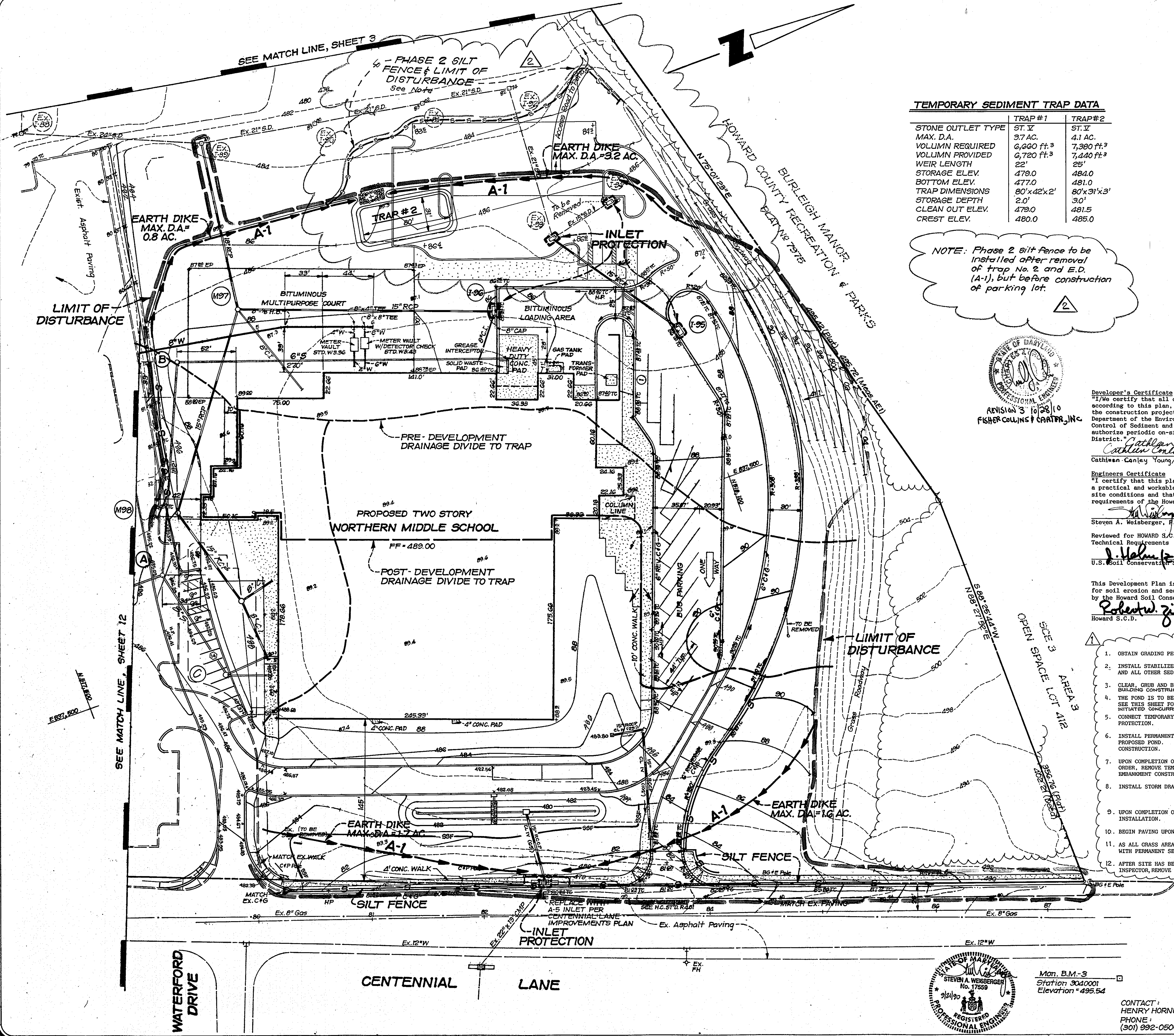
REVISIONS TO 10/27/90
 FISHER COLLINS & CARTER, INC.

Revision #	Date	Company	By	Description
2	10/27/90	F.C.C.		Revised Parking Lot



DRAINAGE AREA MAP
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1095
OWNER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

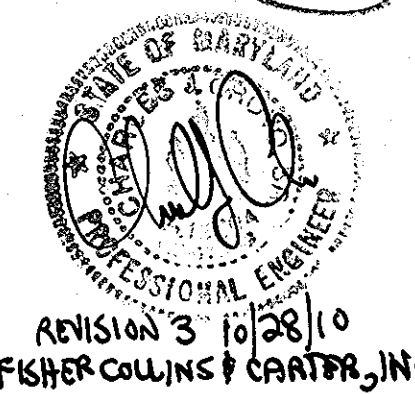
DATE: APRIL, 1990
 SCALE: 1" = 40'
 DESIGN: M.K.H. DRAWN: RER
 CHECK: S.A.W. CHECK:
 JOB NO.:
 PR. NO.: 6908935000
 SHEET 10 OF 15
 FILE NO.:



TEMPORARY SEDIMENT TRAP DATA

	TRAP #1	TRAP #2
STONE OUTLET TYPE	ST. V	ST. V
MAX. D.A.	3.7 AC.	4.1 AC.
VOLUME REQUIRED	6,600 ft. ³	7,300 ft. ³
VOLUME PROVIDED	6,720 ft. ³	7,440 ft. ³
WEIR LENGTH	22'	25'
STORAGE ELEV.	478.0	484.0
BOTTOM ELEV.	477.0	481.0
TRAP DIMENSIONS	80'x42'x2'	80'x31'x3'
STORAGE DEPTH	2.0'	3.0'
CLEAN OUT ELEV.	478.0	481.5
CREST ELEV.	480.0	485.0

NOTE: Phase 2 silt fence to be installed after removal of trap No. 2 and E.D. (A-1), but before construction of parking lot.



REVISION 3 10/28/10
FISHER COLLINS & CARTER, INC.

APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads

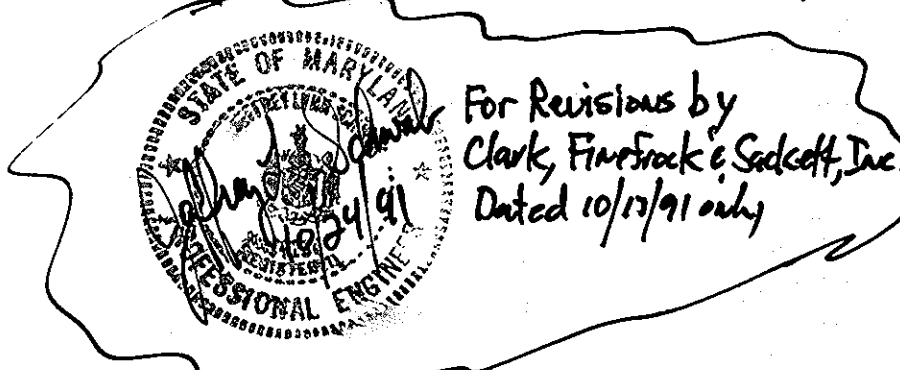
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James J. [Signature]* 10/29/90
 Chief of Bureau of Engineering: *[Signature]* 10/29/90

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS

HOWARD COUNTY HEALTH DEPARTMENT
 County Health Officer: *[Signature]* 11-5-90

APPROVED: Howard County Dept. of Planning and Zoning
 Director: *[Signature]* 11.21.90
 Planning and Land Development: *[Signature]*

No	REVISIONS	Date
1	Rev. S&E Controls as per Rev SDP (By Clark Fireback & Sackett, Inc.)	10-17-91
3	Rev. Bus loop by FCC, Inc.	10-28-10



For Revisions by Clark Fireback & Sackett, Inc. Dated 10/17/91 only

SEDIMENT CONTROL

Developer's Certificate
 I certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District.
 Cathleen Conley Young 11/2/90
 Cathleen Conley Young 11/5/90
 Cathleen Conley Young 11/5/90

Engineers Certificate
 I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Steven A. Weisberger, P.E. 10/5/90
 U.S. Soil Conservation Service 10/5/90

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Robert W. Zielke 10/5/90
 Howard S.C.D.

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT
 - INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, TRAPS, EARTH DIKES AND ALL OTHER SEDIMENT CONTROL DEVICES PRIOR TO SITE DISTURBANCE.
 - CLEAR, GRUB AND BEGIN ROUGH GRADING SITE AND BUILDING CONSTRUCTION. BUILDING CONSTRUCTION TO BE CONCURRENT WITH POND CONSTRUCTION.
 - THE POND IS TO BE ACCESSED THROUGH THE SITE AND NOT FROM CENTENNIAL LANE. SEE THIS SHEET FOR ACCESS TO EXISTING ROADWAY. POND CONSTRUCTION TO BE INITIATED CONCURRENTLY WITH BUILDING CONSTRUCTION.
 - CONNECT TEMPORARY 24" CMP TO EXISTING POND OUTFALL AND INSTALL RIP-RAP PROTECTION.
 - INSTALL PERMANENT 36" RCP BARREL AND STORMWATER MANAGEMENT STRUCTURE FOR PROPOSED POND. Dewater Pond as necessary for riser structure and pipe construction.
 - UPON COMPLETION OF STORM WATER MANAGEMENT STRUCTURE AND IS IN WORKING ORDER, REMOVE TEMPORARY OUTFALL PIPE AND EXISTING SWM STRUCTURE. BEGIN EMBANKMENT CONSTRUCTION.
 - INSTALL STORM DRAIN SYSTEM AND ALL UTILITIES FOR PROPOSED SCHOOL BUILDING.
 - UPON COMPLETION OF ALL UTILITY INSTALLATION, BEGIN CURB AND GUTTER INSTALLATION.
 - BEGIN PAVING UPON COMPLETION OF UTILITY INSTALLATION AND CURB & GUTTER.
 - AS ALL GRASS AREAS APPROACH FINISHED GRADE FOR POND AND BUILDING STABILIZE WITH PERMANENT SEEDING.
 - AFTER SITE HAS BEEN STABILIZED AND UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE EROSION AND SEDIMENT CONTROL DEVICES.

REVISION #	DATE	COMPANY	BY	DESCRIPTION
1	1-9-91	B.D.E.T.	R.E.R.	REVISED SEQUENCE OF CONSTRUCTION NOTES 3 & 4, DELETED NOTE

SEDIMENT & EROSION CONTROL PLAN
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1025
 OWNER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

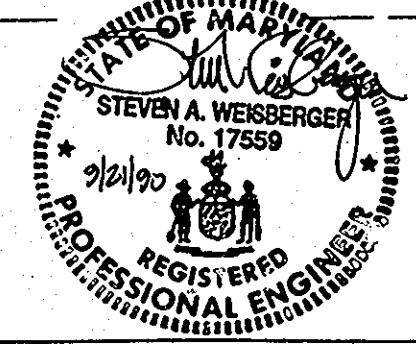
BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10801 LOCKWOOD DRIVE, SUITE 220, SILVER SPRING, MARYLAND 20901
 (301) 881-6515

OFFICE LOCATIONS
 • PRINCE GEORGES COUNTY, VIRGINIA
 • FAIRFAX COUNTY, VIRGINIA
 • CHESTERFIELD COUNTY, VIRGINIA
 • LENOIR COUNTY, VIRGINIA
 • ANNE ARUNDEL COUNTY, MARYLAND
 • MONTGOMERY COUNTY, MARYLAND

BD&T

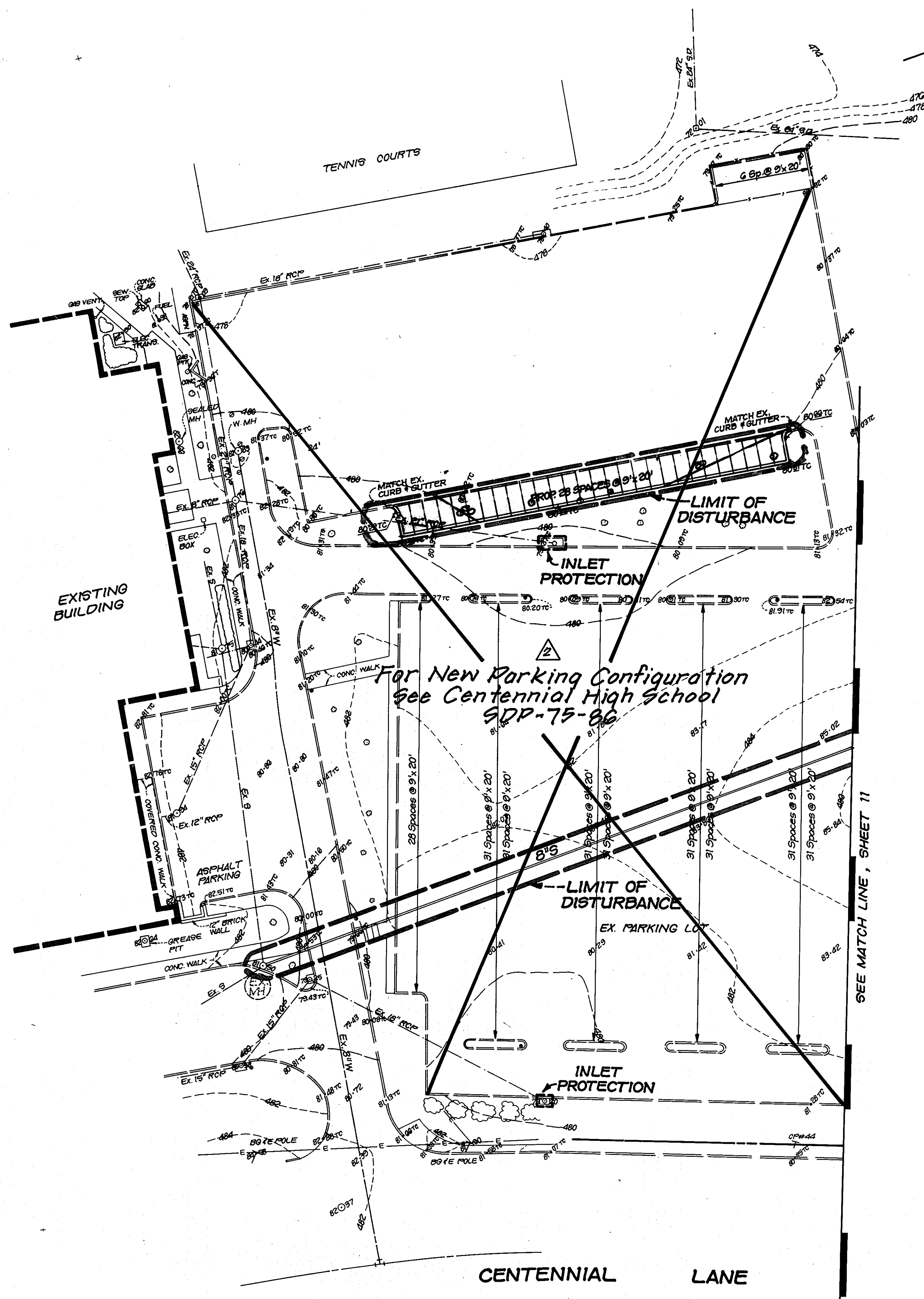
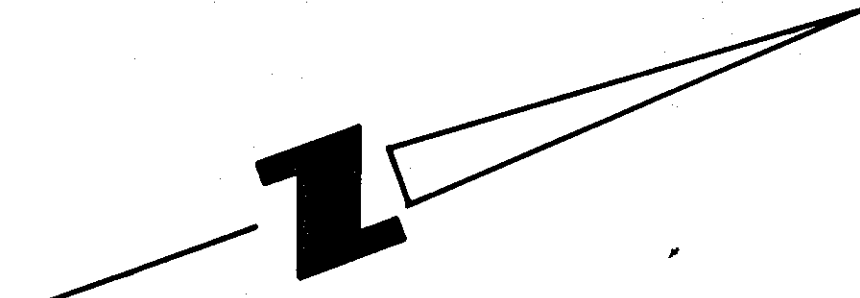
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

DATE: APRIL, 1990
 SCALE: 1" = 40'
 DESIGN: MKH DRAWN: RFR/REB
 CHECK: EAW CHECK:
 JOB NO.:
 PR. NO.: 6508335000
 SHEET 11 OF 15
 FILE NO.:



Mon. B.M.-3
 Station 3040001
 Elevation = 495.54

CONTACT:
 HENRY HORNUNG
 PHONE:
 (301) 992-0500



APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 James A. Stum 10/29/90
 DIRECTOR DATE
 D. S. Rainey 10/29/90
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 Joseph B. Brown 11-5-96
 COUNTY HEALTH OFFICER DATE

APPROVED: Howard County DEPT. of Planning and Zoning
 [Signature] 11.21.90
 DIRECTOR DATE
 [Signature] 11/21/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10801 LOCKWOOD DRIVE, SUITE 320, SILVER SPRING, MARYLAND 20901
 (301) 581-8515

OFFICE LOCATIONS
 ◆ PRINCE WILLIAM COUNTY, VIRGINIA
 ◆ MONTGOMERY COUNTY, MARYLAND
 ◆ CHESTERFIELD COUNTY, VIRGINIA
 ◆ LOUDOUN COUNTY, VIRGINIA

BD&T

SEDIMENT CONTROL

Developer's Certificate
 "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District."
 Cathleen Conley Young 11/3/90
 Cathleen Conley Young 5/3/90
 Cathleen Conley Young Date

Engineers Certificate
 "I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."
 Steven A. Weisberger, P.E. 5/3/90
 Steven A. Weisberger, P.E. Date

Reviewed for HOWARD S.C.D. and meets Technical Requirements
 J. Helms 10/5/90
 U.S. Soil Conservation Service Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.
 Robert Ziehm 10/5/90
 Howard S.C.D. Date

FOR SEDIMENT AND EROSION CONTROL ONLY
NOT FOR CONSTRUCTION

NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND



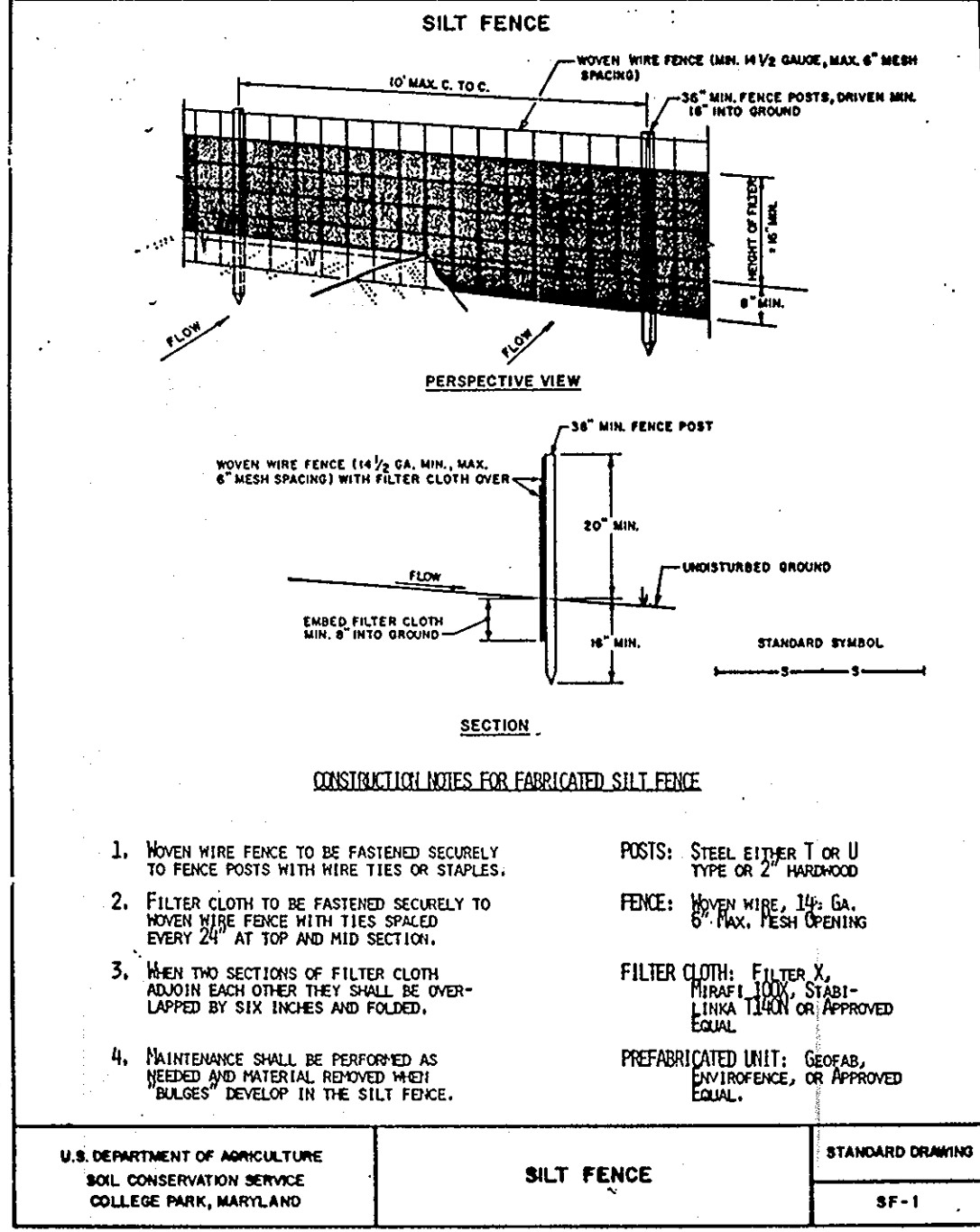
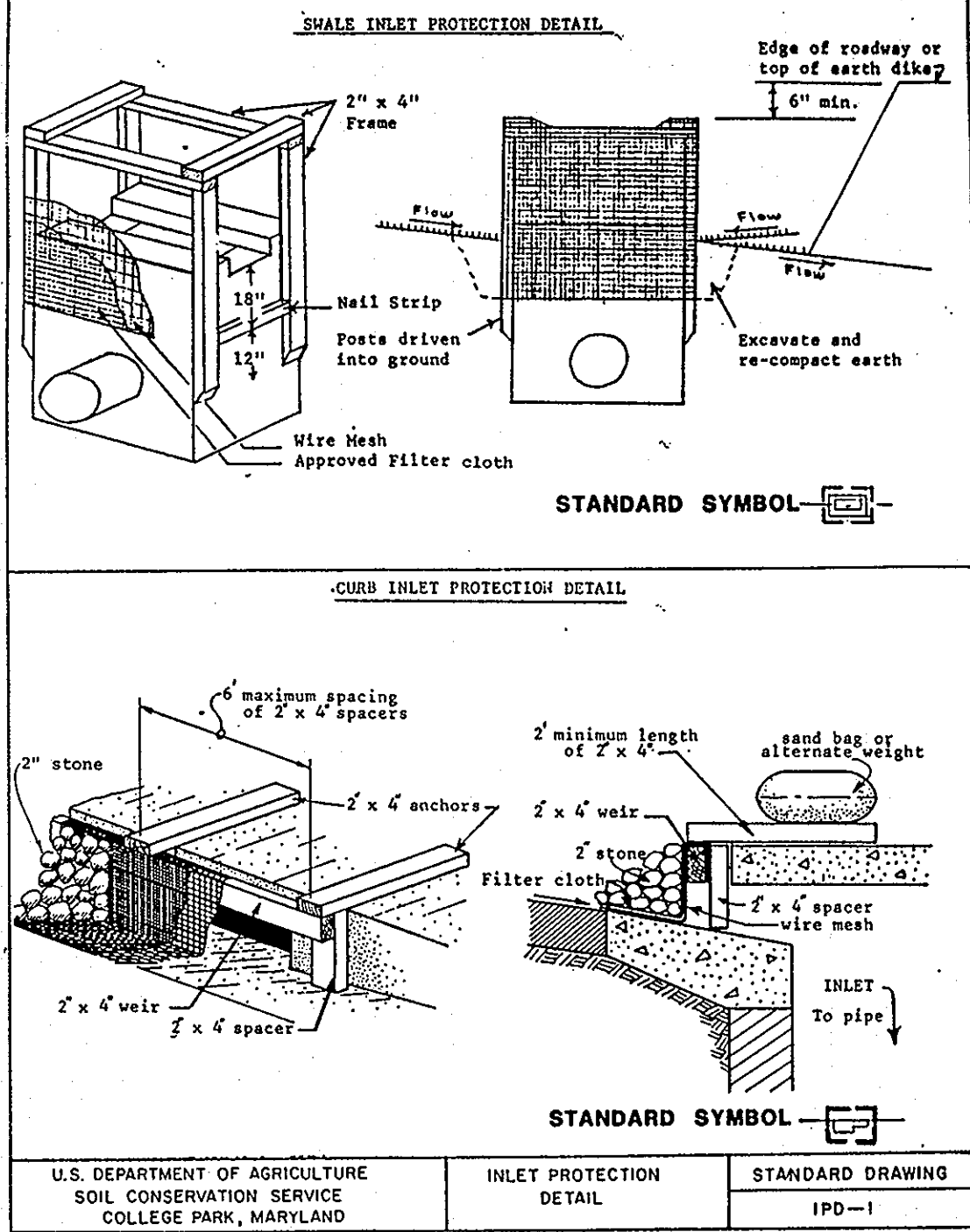
SEDIMENT & EROSION CONTROL PLAN
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 24 PARCEL 1095
 OWNER/DEVELOPER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
 SCALE: 1" = 40'
 DESIGN: M.K.H. DRAWN: RER
 CHECK: S.A.W. CHECK:
 JOB NO:
 PR. NO: 9908935000
 SHEET 12 OF 15
 FILE NO:

Revision #	Date	Company	By	Description
2	10-21-10	F.C.G.		Revised Parking Lot

SEDIMENT CONTROL NOTES

- 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)
- 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 redistribution, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, herbaceous slopes and all slopes greater than 3:1; b) 14 days for all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent 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: 70.0 Acres
 - Area Disturbed: 8.5 Acres
 - Area to be roofed or paved: 2.7 Acres
 - Area to be vegetatively stabilized: 5.7 Acres
 - Total Cur: 6000 Cu. yds
 - Total Fill: 4000 Cu. yds
 - Offsite waste/borrow area location: N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County DPM sediment control inspector.
- On all sites with disturbed areas in excess of 2-acres, approval of the 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.



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 square ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq. ft.)
- Acceptable:** Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 100 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft) before seeding. Harrow or disk into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 300 lbs per acre (7 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 of well anchored straw mulch and seed as soon as possible in the fall; Option (2) use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool.

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

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redistributed where a short-term vegetative cover is needed.

Seedbed preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft).

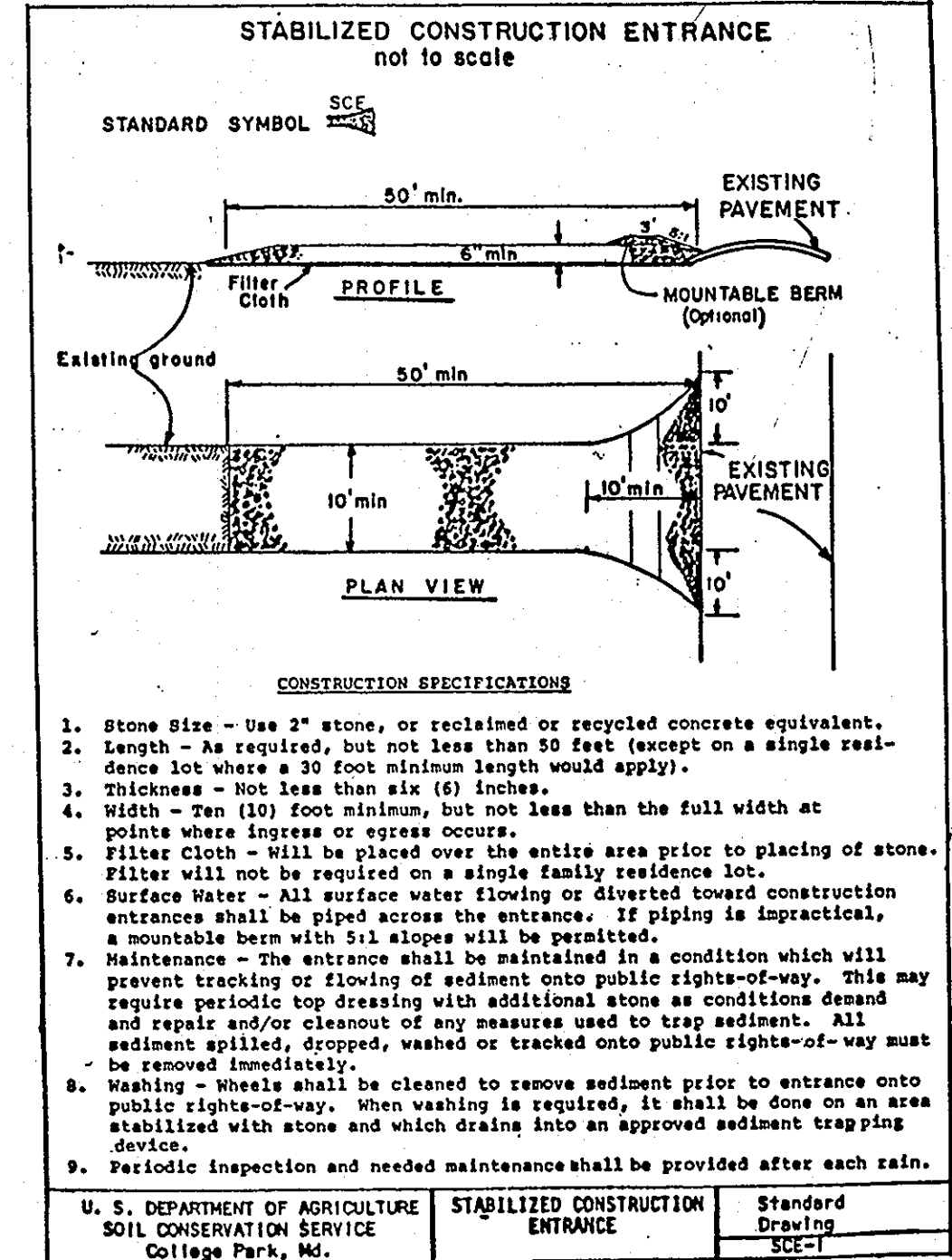
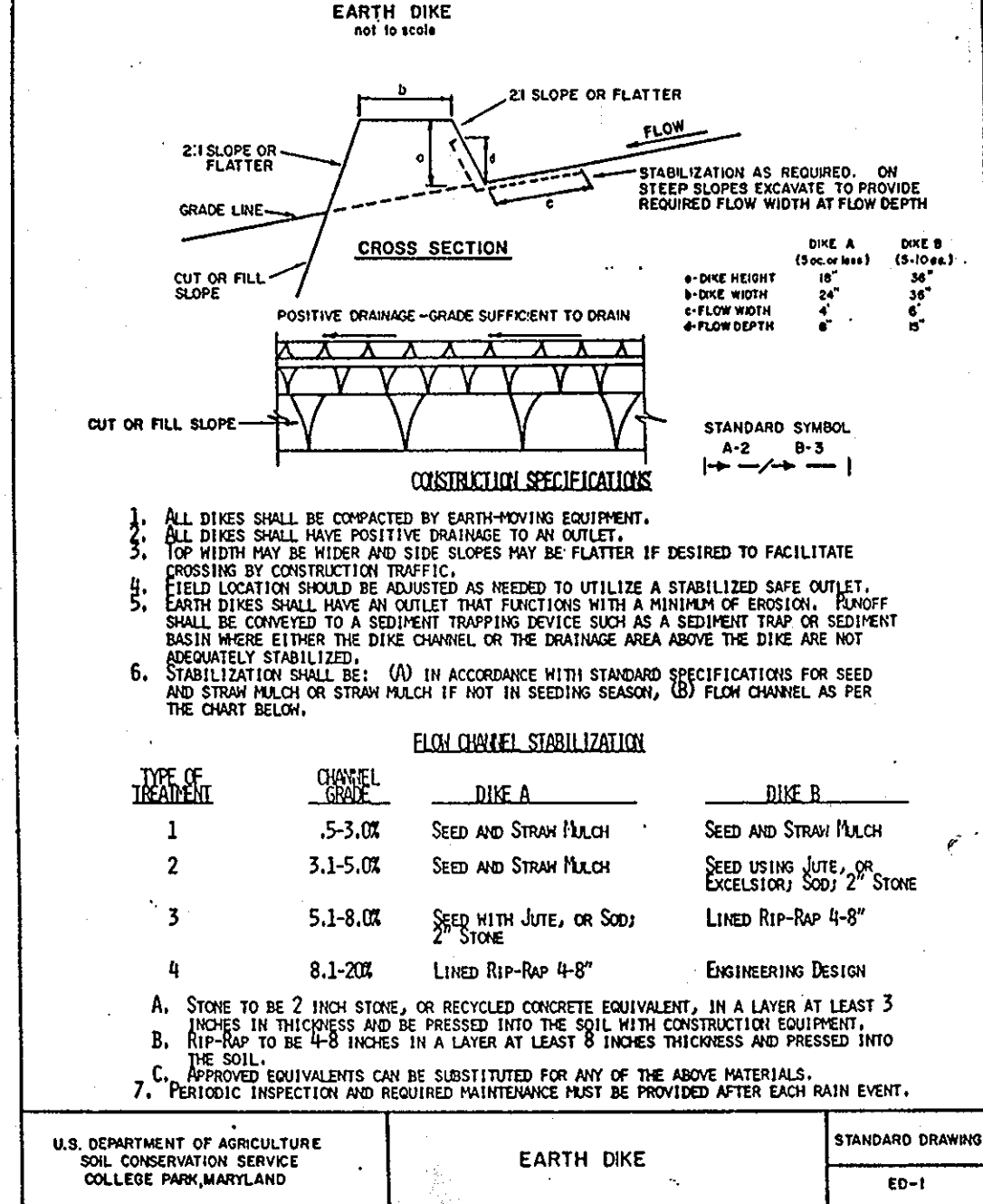
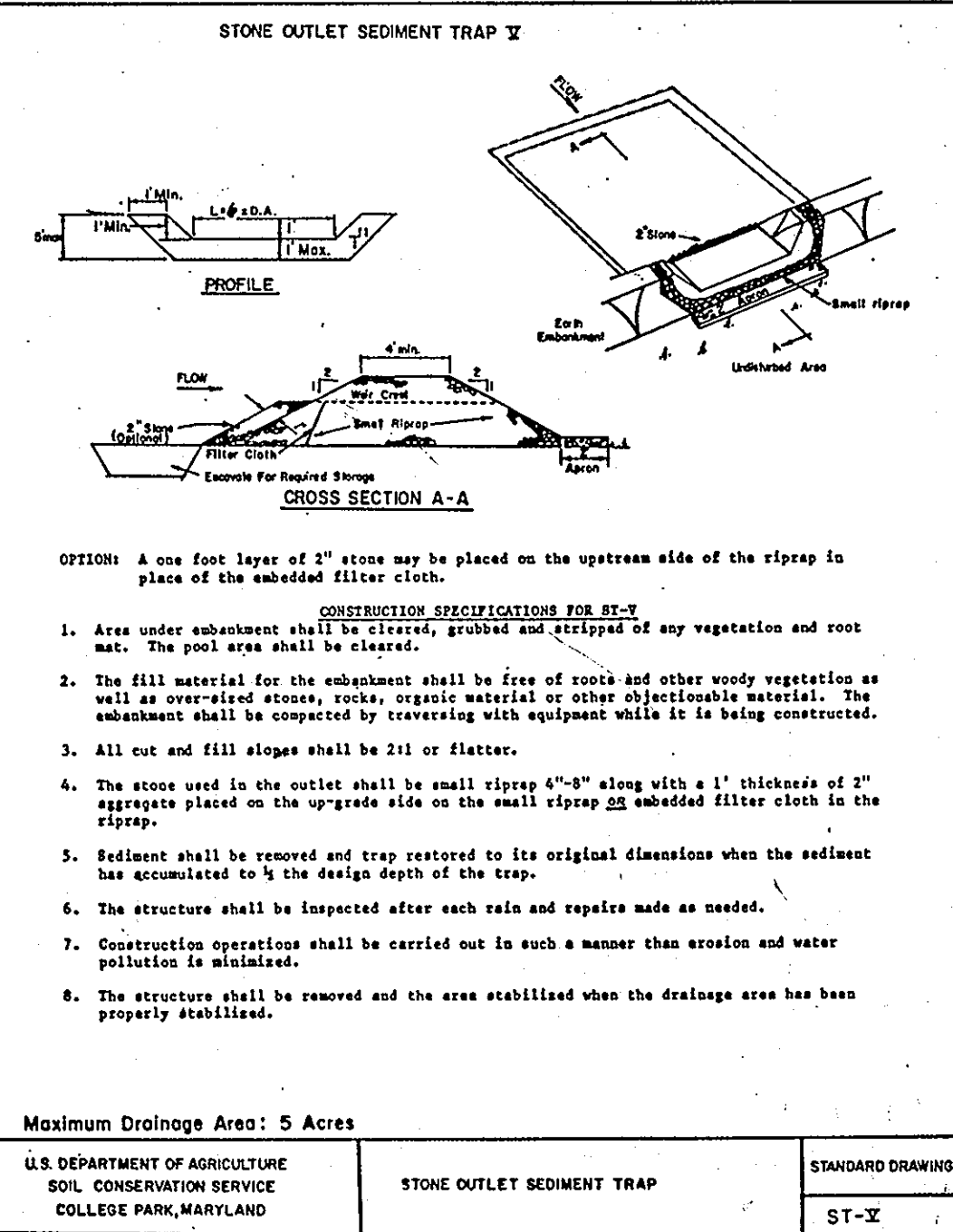
Seeding: For periods March 1 thru April 30 and from August 15 thru October 15, seed with 2-1/2 bushel per acre of annual ryegrass (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool.

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

CONSTRUCTION SEQUENCE

- OBTAIN GRADING PERMIT: 2 DAYS
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES: 5 DAYS
- CLEAR AND ROUGH GRADE SITE: 21 DAYS
- CONSTRUCT UTILITIES AND STORM DRAINS: 21 DAYS
- BEGIN BUILDING CONSTRUCTION. FINE GRADE ENTIRE SITE AND STABILIZE: 180 DAYS
- AFTER SITE HAS STABILIZED AND UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE SEDIMENT AND EROSION CONTROL DEVICES: 2 DAYS



APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James H. Schum DIRECTOR DATE: 10-29-90
William E. Reay CHIEF, BUREAU OF ENGINEERING DATE: 10-29-90

APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT

Joseph W. Zoss III COUNTY HEALTH OFFICER DATE: 11-5-90

APPROVED: Howard County Department of Planning and Zoning

William C. Taylor DIRECTOR DATE: 11/21/90
Franklin C. Taylor CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE: 11/21/90

SEDIMENT CONTROL

Developer's Certificate

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

Cathleen Conley Young 11/9/90
Cathleen Conley Young 5/19/90
Cathleen Conley Young Date

Engineers Certificate

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

Steven A. Weisberger 5/3/90
Steven A. Weisberger, P.E. Date

Reviewed for HOWARD S.C.D. and meets Technical Requirements

J. Helms 10/5/90
U.S. Soil Conservation Service Date

This Development Plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

Robert J. Ziehm 10/5/90
Howard S.C.D. Date



SEDIMENT CONTROL DETAILS

NORTHERN MIDDLE SCHOOL

2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 24 PARCEL 1095
OWNER
HOWARD COUNTY DEPT. OF EDUCATION
10910 ROUTE 108
ELLCOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
SCALE: AS SHOWN
DESIGN: MKH DRAWN:
CHECK: GAW CHECK:
JOB NO:
P.R. NO: 8608935000
SHEET 13 OF 15
FILE NO:

BENGTSON, DeBELL, ELKIN & TITUS, LTD.

ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
10807 LOCKWOOD DRIVE, SUITE 200, SILVER SPRING, MARYLAND 20901
(301) 681-8515

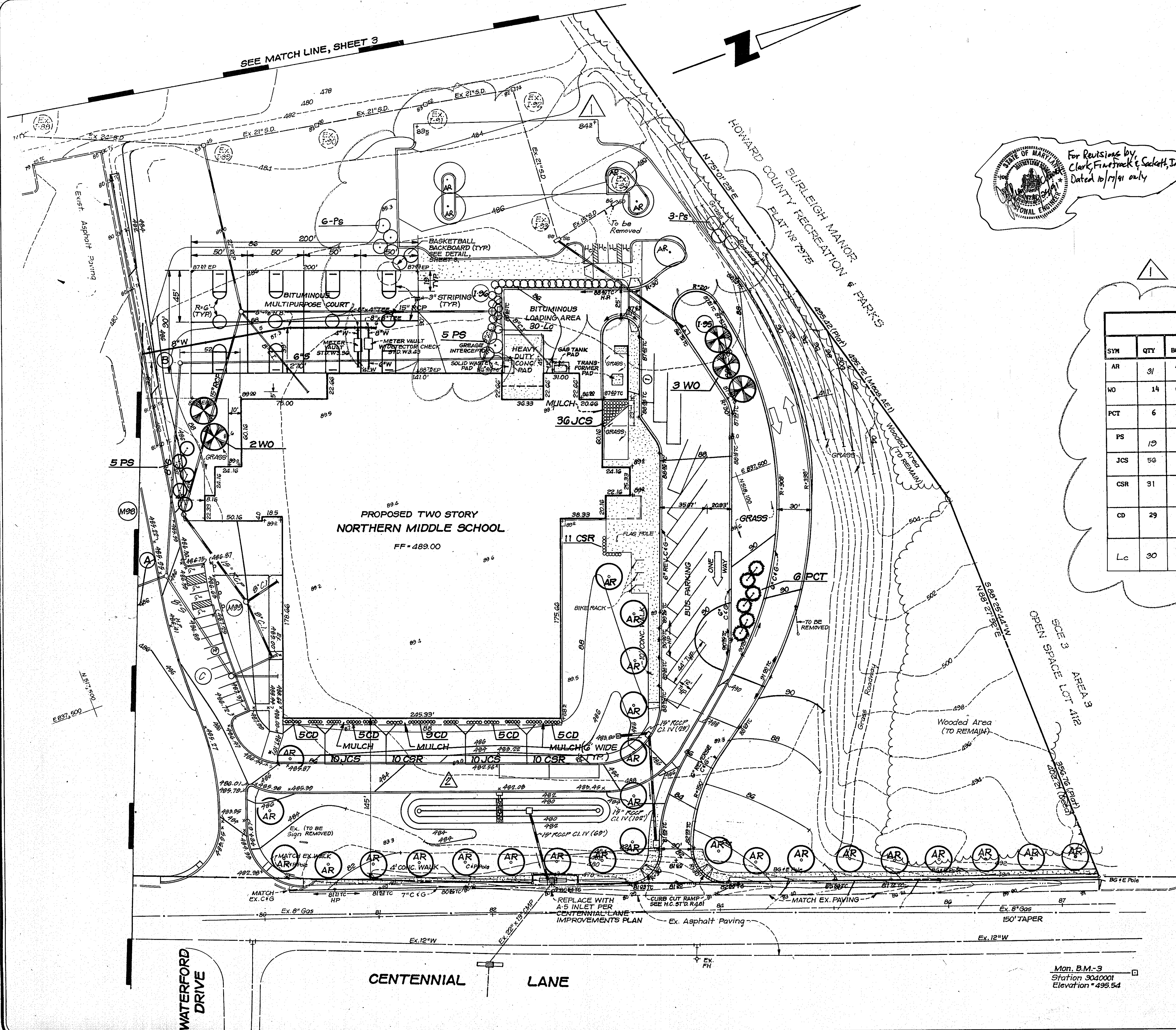
OFFICE LOCATIONS
◆ ANNE ARUNDEL COUNTY, MARYLAND
◆ CHESTERFIELD COUNTY, VIRGINIA
◆ FAIRFAX COUNTY, VIRGINIA
◆ LOUDOUN COUNTY, VIRGINIA
◆ MONTGOMERY COUNTY, MARYLAND
◆ VIRGINIA BEACH, VIRGINIA

BD&T

NORTHERN MIDDLE SCHOOL

2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

NOTE: FOR SEDIMENT AND EROSION CONTROL ONLY.
NOT FOR CONSTRUCTION.



APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Floods
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Director: *James M. ...* 10/29/90
 DATE: 10-29-90
 CHIEF, BUREAU OF ENGINEERING

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COURT HEALTH OFFICER: *...* 11-5-90
 DATE: 11-5-90

APPROVED: Howard County DEPT. of Planning and Zoning
 DIRECTOR: *...* 11-10-90
 DATE: 11-10-90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

REVISIONS

NO	REVISIONS	DATE
1	Rev. LS as per rev. to SDP (By Clark, Firetruck & Sackett, Inc.)	10-17-91
2	Revised Dns Loop F.C.C.	10-27-91

For Revisions by Clark, Firetruck & Sackett, Inc. Dated 10/17/91 only

PLANT LIST					
SYM	QTY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AR	31	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	3 1/2"-4" CAL. B & B	
WO	14	QUERCUS PHELLOS	WILLOW OAK	3 1/2"-4" CAL. B & B	
PCT	6	PYRUS CALLERYANA 'REDSPIRE'	REDSPIRE PEAR	8'-10" B & B	
PS	10	PINUS STROBUS	WHITE PINE	5'-6" B & B	
JCS	50	JUNIPERUS CHINEHSIS 'SARGENTII'	SARGENT'S JUNIPER	18"-24" COONT.	2'-6" O.C.
CSR	31	COTONEASTER SALICIFOLIA 'REPANDENS'	WILLOWLEAF COTONEASTER	18"-24" COONT.	3' O.C.
CD	29	COTONEASTER DAMMERI 'SKOGSHOLMEN'	CHRISTMAS CARPET COTONEASTER	18"-24" COONT.	3' O.C.
Lc	30	Cupressocyparis Leylandii	Leyland Cypress	6'-8" Ht.	5' O.C.

STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 STEVEN A. WESSELER
 No. 17558
 REGISTERED PROFESSIONAL ENGINEER
 FISHKILL CONSULTING ENGINEERS, INC.

PLANTING PLAN
 NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP PARCEL 1035
 OWNER
 HOWARD COUNTY DEPT. OF EDUCATION
 10910 ROUTE 108
 ELLICOTT CITY, MARYLAND 21043

DATE: APRIL, 1990
 SCALE: 1" = 40'
 DESIGN: M.K.H.
 CHECK: S.A.W.
 JOB NO.:
 PR. NO.: 6508935000
 SHEET 14 OF 15
 FILE NO.:

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
 ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS
 10801 LOCKWOOD DRIVE, SUITE 220, SILVER SPRING, MARYLAND 20901
 (301) 581-8515

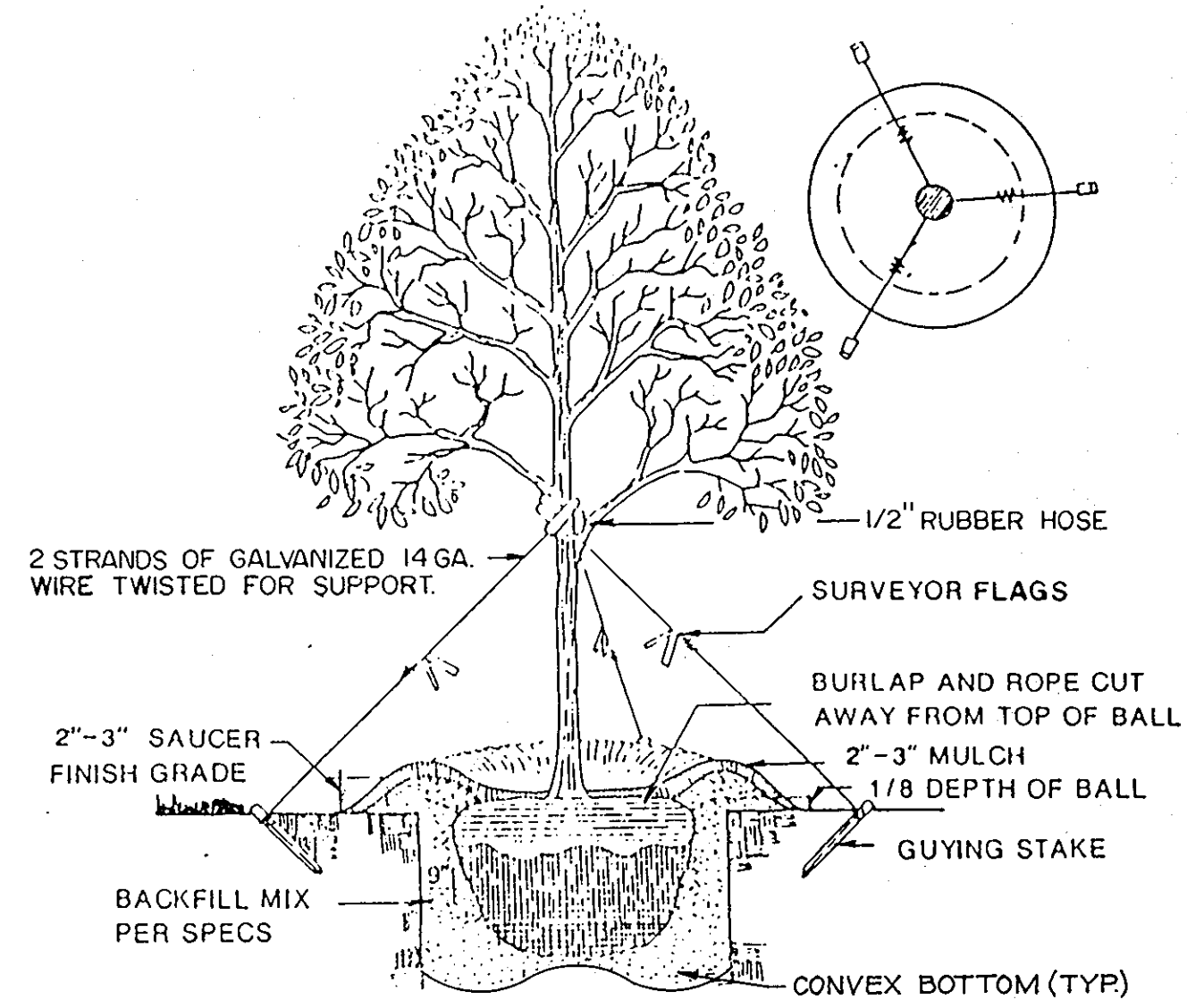
OFFICE LOCATIONS
 • PRINCE GEORGES COUNTY, VIRGINIA
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 • MONTGOMERY COUNTY, MARYLAND
 • LOUISIANA COUNTY, VIRGINIA

BDT

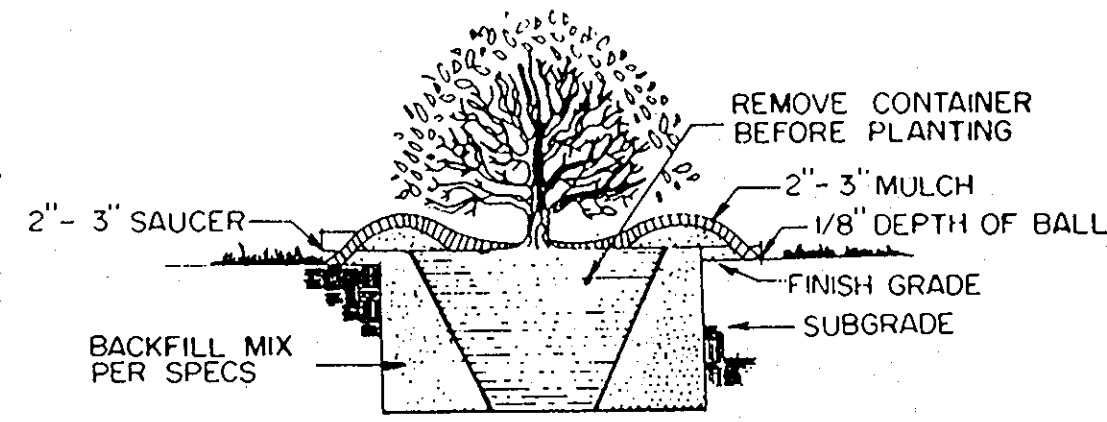
NORTHERN MIDDLE SCHOOL
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

Mon. B.M.-3
 Station 304.0001
 Elevation *495.54

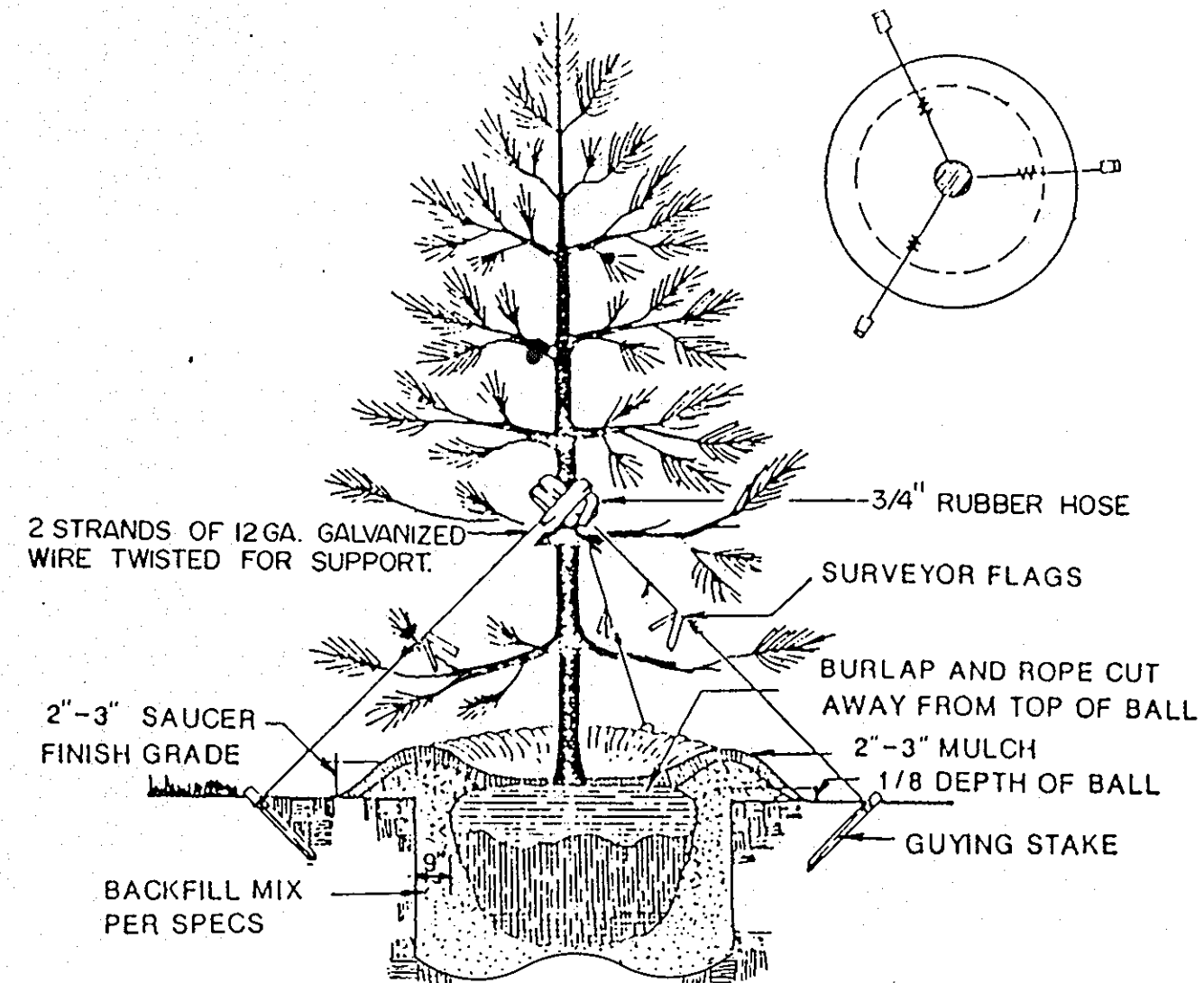
PLANTING DETAILS



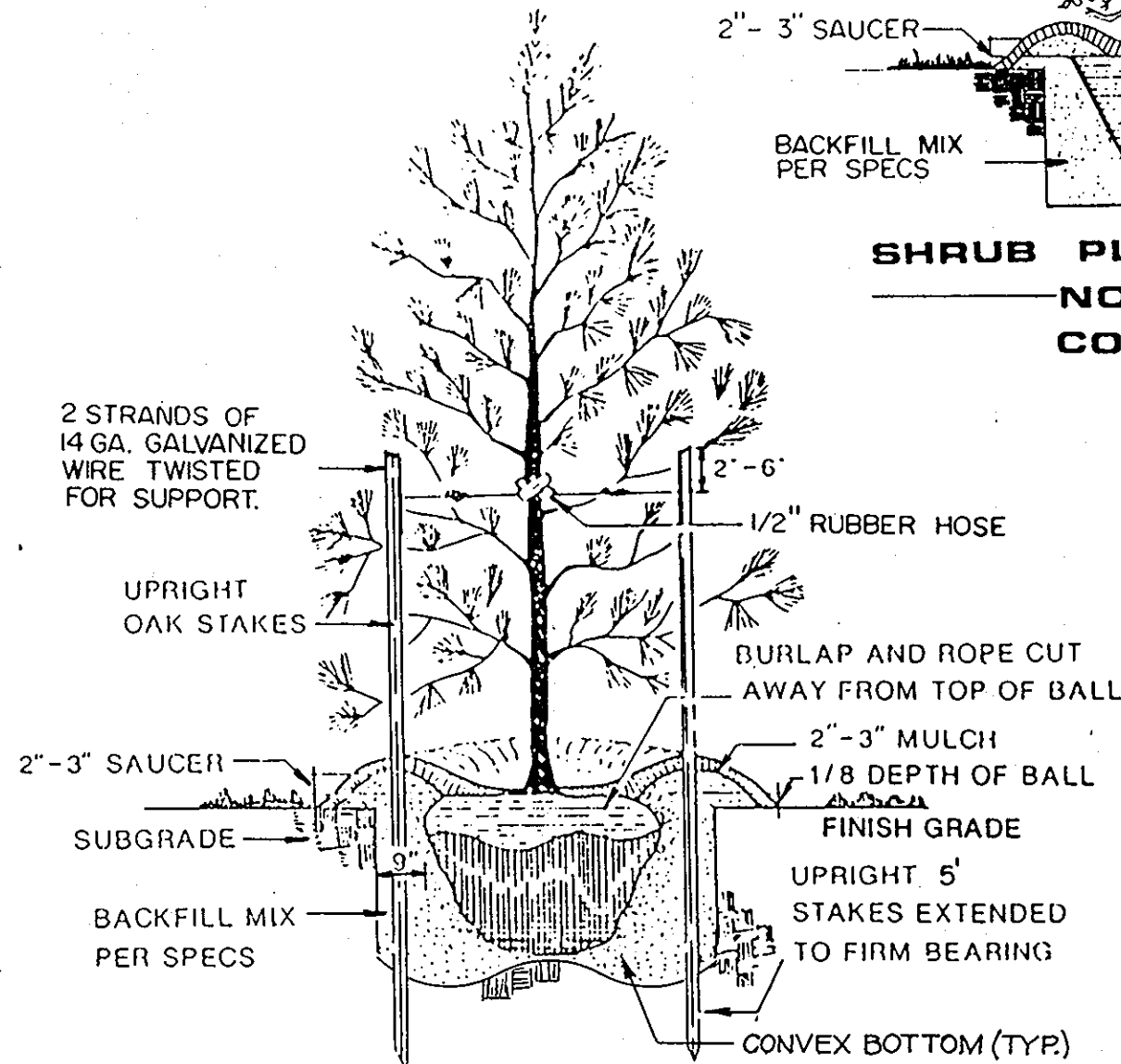
DECIDUOUS TREE PLANTING DETAIL
NO SCALE
FOR 2 1/2"-4 1/2" CALIPER TREES



SHRUB PLANTING DETAIL
NO SCALE
CONTAINER



EVERGREEN TREE PLANTING DETAIL
NO SCALE
FOR TREES TALLER THAN 8'



EVERGREEN TREE PLANTING DETAIL
NO SCALE
FOR 8' TREES AND SMALLER

LANDSCAPE SPECIFICATIONS

1. ALL PLANT MATERIAL SHALL CONFORM TO CURRENT AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARDS, AND TO "HORTUS THIRD" (1977 EDITION) FOR BOTANICAL AND COMMON NAMES.
2. BALLED AND BURLAPPED PLANTS SHALL BE DUG WITH FIRM NATURAL BALLS OF EARTH. BALL SIZES SHALL BE IN ACCORDANCE WITH A.A.N. SPECIFICATIONS. ALL CONTAINER GROWN STOCK SHALL BE WELL ROOTED AND ESTABLISHED IN THE CONTAINER IN WHICH IT IS SOLD. AN ESTABLISHED CONTAINER GROWN PLANT SHALL HAVE A ROOT SYSTEM DEVELOPED SUFFICIENTLY TO RETAIN ITS SHAPE WHEN REMOVED FROM THE CONTAINER.
3. ALL PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS OTHERWISE SPECIFIED. PRUNING SHALL BE DONE BEFORE PLANTING OR DURING THE PLANTING OPERATION.
4. ALL PLANT MATERIAL SHALL BE COVERED AND PROTECTED FROM EXCESSIVE DRYING DURING TRANSIT AND DURING ON SITE STORAGE.
5. ANTI-DESICCANTS SHALL BE APPLIED ON ALL MATERIAL DUG WHILE IN FOLIAGE.
6. MULCH MATERIAL SHALL BE EITHER SHREDDED HARDWOOD MULCH, PINE BARK, OR APPROVED EQUAL. MATERIAL SHALL BE MULCHING GRADE, UNIFORM IN SIZE AND FREE OF FOREIGN MATTER. MULCHING TO BE 4" MIN. DEPTH.
7. TOPSOIL MIXTURE SHALL BE 2 PARTS EXISTING TOPSOIL MIXED EVENLY WITH 1 PART SPAGNUM PEAT MOSS OR PEAT HUMUS. EXISTING TOPSOIL SHALL BE FREE OF STONES, LUMPS, PLANKS, ROOTS AND OTHER DEBRIS OVER 1-1/2 INCHES. IT SHALL NOT CONTAIN TOXIC SUBSTANCES HARMFUL TO PLANT GROWTH. TOPSOIL SHALL HAVE A PH RANGE OF 5.0 TO 7.0.
8. PLANTING PROCEDURES FOR TREES AND SHRUBS:
 - A. PLANTING SHALL OCCUR IN ACCORDANCE WITH ALL DETAILS.
 - B. TREES & SHRUBS SHALL BE PLACED IN THE PLANTING PIT, BY LIFTING FROM THE BALL (NEVER FROM THE BRANCHES OR TRUNK). ALL PLANT MATERIAL SHALL BE PLACED IN A STRAIGHT POSITION WITHIN THE PLANTING PIT WITH THE MOST DESIRABLE SIDE PLACED TOWARDS THE PROMINENT VIEW (SIDEWALK, STREET, ETC.).
 - C. THE TREE OR SHRUB PIT SHALL BE BACKFILLED WITH A SOIL MIXTURE, AS PER #7 OF THESE SPECIFICATIONS. THE PIT SHALL BE FILLED HALFWAY INITIALLY AND TAMPED FIRMLY. ALL ROPES, WIRES, ETC. ON THE ROOTBALL SHALL BE CUT AND THE BURLAP OR BALL WRAP PULLED BACK TO THE EDGE OF THE ROOTBALL. COMPLETE BACKFILLING PLANT PIT AND TAMP FIRMLY. BACKFILL SOIL SHALL NOT COVER TOP OF ROOTBALL. MULCH ROOTBALL AND SAUCER WITH MINIMUM OF 3" SHREDDED HARDWOOD OR PINE BARK MULCH. WATER THOROUGHLY OR UNTIL PLANT PIT IS FILLED WITHIN ONE HOUR OF PLANTING.
9. FINAL ACCEPTANCE AND WARRANTY PER AGREEMENT BETWEEN OWNER AND CONTRACTOR.

NOTE: FOR SEEDING SPECIFICATIONS REFER TO SHEET 13 OF 15.

APPROVED: For Public Water and Public Sewerage, Storm Drainage Systems and Public Roads
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

James P. Kim 10/20/90
DIRECTOR DATE

Michael S. Gandy 10/21/90
CHIEF, BUREAU OF ENGINEERING DATE

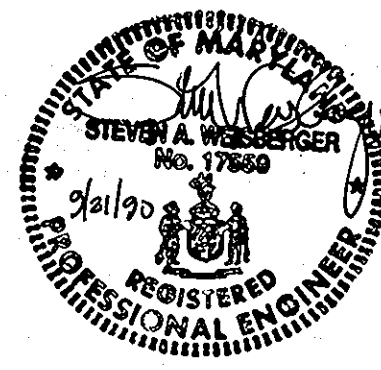
APPROVED: For Public Water and Public Sewerage Systems
HOWARD COUNTY HEALTH DEPARTMENT

John M. Bruffa 11-5-90
COUNTY HEALTH OFFICER DATE

APPROVED: Howard County Department of Planning and Zoning

Walt 11.21.90
DIRECTOR DATE

John O. K. Taylor 11/21/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE



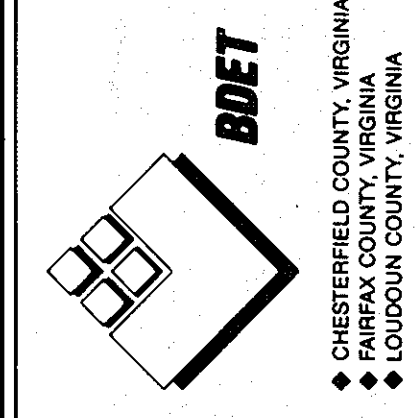
PLANTING DETAILS & NOTES
NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 24 PARCEL 1095
OWNER
HOWARD COUNTY DEPT. OF EDUCATION
10910 ROUTE 108
ELLICOTT CITY, MARYLAND 21043

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PR. NO: 9608935000
SHEET 15 OF 15
FILE NO:

TYPICAL LANDSCAPE PLANTING DETAILS AND SPECIFICATIONS

NORTHERN MIDDLE SCHOOL
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

BENGTSON, DeBELL, ELKIN & TITUS, LTD.
ENGINEERS • SURVEYORS • PLANNERS • LANDSCAPE ARCHITECTS



OFFICE LOCATIONS
◆ ANNE ARUNDEL COUNTY, VIRGINIA
◆ MONTGOMERY COUNTY, MARYLAND

OFFICE LOCATIONS
◆ FREDERICK COUNTY, VIRGINIA
◆ VIRGINIA BEACH, VIRGINIA

OFFICE LOCATIONS
◆ CHESTERFIELD COUNTY, VIRGINIA
◆ FREDERICK COUNTY, VIRGINIA
◆ LOUDOUN COUNTY, VIRGINIA