

**GENERAL NOTES**

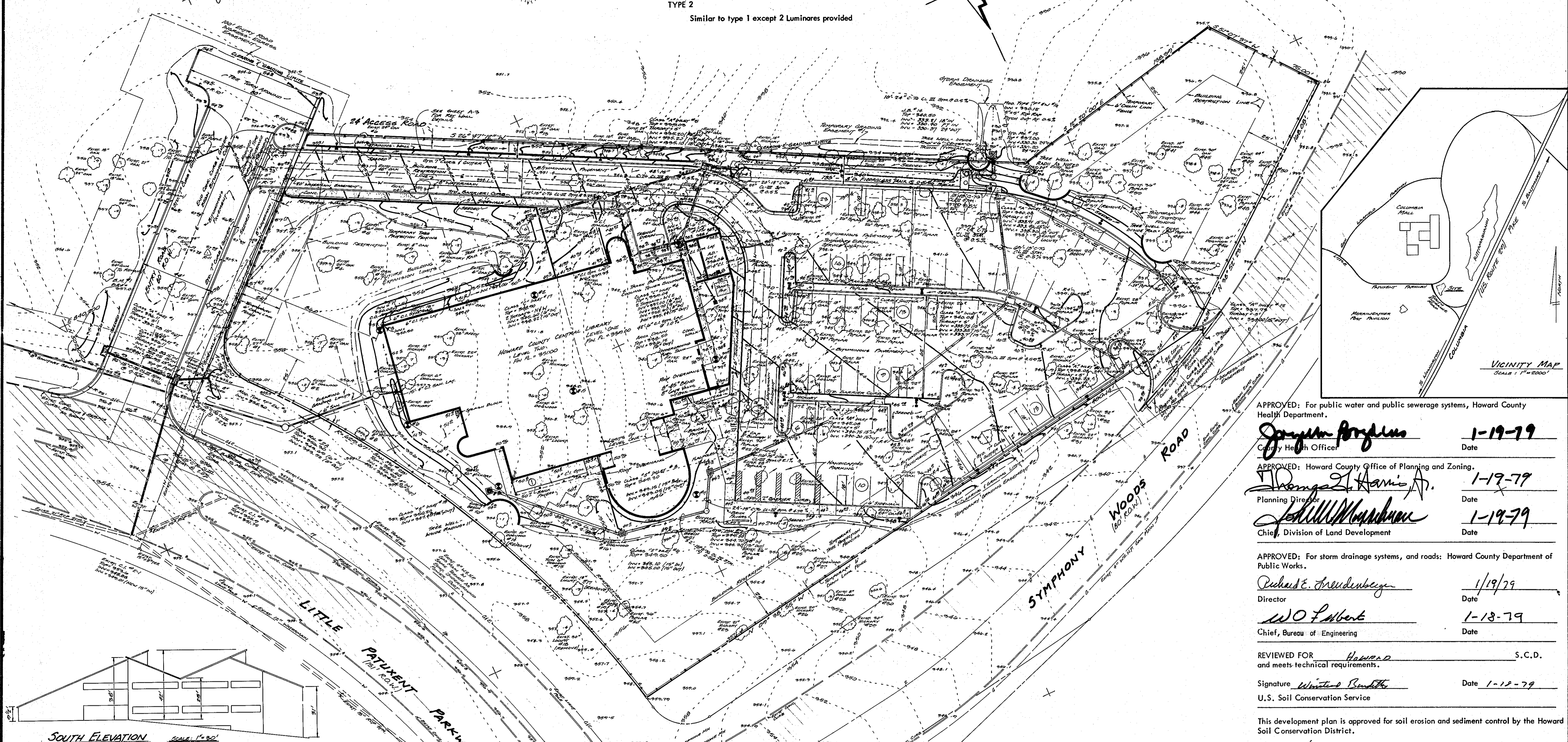
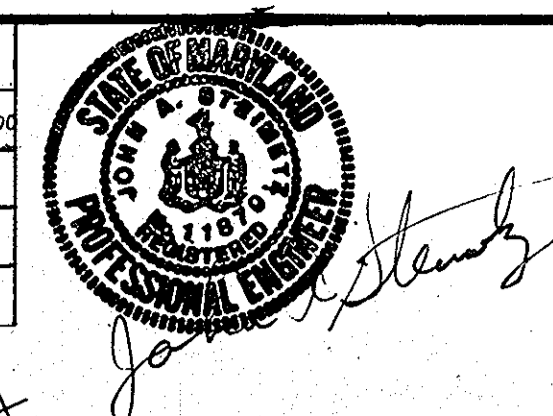
1. ALL WATER MAINS TO BE C.I.P., D.I.P., A.C.P. UNLESS OTHERWISE SHOWN.
2. TOP OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.50' COVER UNLESS OTHERWISE NOTED.
3. ALL VALVES SHALL BE STRAPPED TO TREES IN ACCORDANCE WITH STANDARD DETAILS.
4. BLOCK ALL FITTINGS WITH CONCRETE.
5. ALL SEWER MAINS SHALL BE O.S.P.X., V.C.P.X., OR A.C.P. CLASS 2500 UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
7. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
8. APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY.
9. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
10. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
11. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
12. CLEAR ALL UTILITIES BY A MINIMUM OF 6", CLEAR ALL POLES BY 2'-0" MIN. OR TUNNEL AS REQUIRED.
13. CONTRACTOR SHALL LOCATE EXISTING UTILITIES IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF PROPOSED UTILITIES.
14. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST 5 DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
 STATE HIGHWAY ADMINISTRATION - 531-6533.  
 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION; ENGINEERING "DAMAGE CONTROL" - 232-3691.  
 BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND GAS DISTRIBUTION; ENGINEERING - 529-0100.  
 C.P. TELEPHONE COMPANY - 725-9976.  
 AT&T: CABLE LOCATION DIVISION - 301-393-3553.  
 CO. OF MARYLAND PIPELINE COMPANY - 781-4841.
15. TREES TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
16. CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION AS DIRECTED BY ENGINEER.

*Carl Chedinger*  
 STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER

REVISED 8 NOV, 1978 - 8" LINE TO BUILDING CONNECTION  
 REVISED 20 SEPT, 1978 - 6" WATER VALVE  
 REVISED 30 AUG, 1978 PER COUNTY REVIEW 11 AUG 1978  
 HOWARD COUNTY CENTRAL LIBRARY  
 C-2802-D-N13

<b>VVKR</b> PARTNERSHIP 720 NORTH SAINT ASAPH STREET ALEXANDRIA, VIRGINIA 22314 TEL. 703-549-9200	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Richard E. Breudenburger 9/14/78 DIRECTOR OF PUBLIC WORKS DATE	W.D. Albert 9/14/78 CHIEF BUREAU OF WATER AND SEWER	CONTRACT NO. 2802-D-W & S	PLAN AND PROFILE OF WATER AND SEWER	TOWN CENTER, SEC. I, AREA 3, LOT 1 HOWARD COUNTY CENTRAL LIBRARY ELECTION DISTRICT #5	DRAWING NO. C-1A OF 11 SHEETS	SCALE 1" = 50'
	SDP-79-14c						

REVISIONS	
1	ADD BUILDING AREA 6-24-2000



**SOUTH ELEVATION** Scale: 1/4" = 1'-0"

ABBREVIATION TABLE	
ITEM	ABBREV.
ASBESTOS CEMENT	AC
AREA DRAIN	AD
BITUMINOUS	BIT
BOTTOM OF WALL	BW
BOTTOM OF BANK	BB
CAST IRON PIPE	CIP
CAST IRON SOIL PIPE	CISP
CATCH BASIN	CB
CENTERLINE	C
CHORD-CHORD BEARING	CHC
CLASS	CL
CLEAN OUT	CO
COMB CURB & GUTTER	CGG
REVERSE CURB & GUTTER	RCGG
CONCRETE	CONC
CONNECTION	CONN
CONSTRUCTION	CONST
CURB INLET	CI
DIESEL OIL	DO
DROP INLET	DI
DUCTILE IRON PIPE	DIP
EASEMENT	EMT
EAST	E
EDGE OF PAVEMENT	EP
ELEVATION	EL/ELEV
ENDWALL	EW
ENTRANCE	ENTR
EXISTING	EX EXIST
FACE OF CURB	FC
FIRE HYDRANT	FH
FURNISHED FLOOR	FF
FORCE MAIN	FM
FUEL OIL	FO
GAZE	GAZE
GRATE INLET	GI
GENERAL	GEN
HEADER CURB	HC
HIGH POINT	HP
HIGH PRESSURE GAS	HPG
HORIZONTAL ELLIPTICAL	HE
INVERT	INV
LATERAL	LAT
LOW POINT	LP
MANHOLE	MH
NORTH	N
OVERHEAD POWER	OP
OVERHEAD TELEPHONE	OT
PROPOSED	PROP
RADIUS	R
RAILROAD	RR
REINFORCED CONCRETE	RC
CULVERT PIPE	CCP
RETAINING WALL	RW
RIGHT OF WAY	ROW/RW
SANITARY SEWER	SAN SEW
SOUTH	S
STORM SEWER	STM SEW
TANGENT	TAN
TERRA COTTA PIPE	TCR
TOP OF BANK	TB
TOP OF CURB	TC
TOP OF WALL	TW
TRANSFORMER	TRANS
UNDERGROUND POWER	UP
UNDERGROUND TELEPHONE	UT
VITRIFIED CLAY	VC
WATERMETER	WM
WATERVALVE	WV
WEST	W
YARD INLET	YI

**DEVELOPER'S CERTIFICATE**

I certify that all development and/or construction will be done according to this plan of development and plan for erosion and sediment control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer: *James J. Moore* Date: *Jan 13, 1979*

**ENGINEER'S 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.

Signature of Engineer: *Carl C. Redinger* Date: *18 Dec 1978*

**SITE LIGHTING**

**TYPE 1**  
20 foot high pole mounted, rectangular area light, dark bronze  
1 Luminaire 1/ASL - 2LEC - 7 - CC - FS/ML  
250 W. H.P.S. mercury vapor lamp, 277 Volt  
Pole: ML5113-1  
I.E.S. - ANSI type III distribution

**TYPE 2**  
Similar to type 1 except 2 Luminaires provided

APPROVED: For public water and public sewerage systems, Howard County Health Department.  
Signature: *Joseph Anglin* Date: *1-19-79*  
County Health Officer

APPROVED: Howard County Office of Planning and Zoning.  
Signature: *Thomas L. Harris* Date: *1-19-79*  
Planning Director

Signature: *William M. Anderson* Date: *1-19-79*  
Chief, Division of Land Development

APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
Signature: *Richard E. Freudenberger* Date: *1/19/79*  
Director

Signature: *W O Lubert* Date: *1-18-79*  
Chief, Bureau of Engineering

REVIEWED FOR *Howard* S.C.D. and meets technical requirements.  
Signature: *Walter Smith* Date: *1-18-79*  
U.S. Soil Conservation Service

APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.  
Signature: *Richard E. Freudenberger* Date: *1/19/79*  
Director

APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.  
Signature: *Richard E. Freudenberger* Date: *1/19/79*  
Director

**LEGEND**

PROPERTY LINE	ITEM	NEW	EXISTING
SPOT ELEVATIONS		+	•
CONTOURS		---	---
BUILDING (S)		---	---
BITUMINOUS PAVING		---	---
CONCRETE PAVING & WALKS		---	---
CONCRETE CURB & GUTTER		---	---
CONCRETE HEADER CURB		---	---
BITUMINOUS CURB		---	---
SANITARY SEWER (MANHOLE)		---	---
STORM SEWER (STRUCTURE)		---	---
OVERHEAD POWER LINE (POLE)		---	---
OVERHEAD TELEPHONE LINE (POLE)		---	---
POLE GUY WIRE (ANCHOR)		---	---
UNDERGROUND POWER LINE		---	---
UNDERGROUND TELEPHONE LINE (PEDISTAL)		---	---
WATER MAIN		---	---
FIRE HYDRANT (VALVE)		---	---
GAS MAIN		---	---
UNDERGROUND OIL/FUEL STORAGE TANK		---	---
RETAINING WALL		---	---
TREES OR SHRUBS		---	---
WOODED AREAS		---	---
FENCE		---	---
SOIL BORINGS		---	---
BOUNDARY SURVEY POINT		---	---
SITE LIGHT - TYPE 1		---	---
SITE LIGHT - TYPE 2		---	---

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Approved: *Wes Furr* Date: *1-18-79*  
Howard S.C.D.

**PAVING SPECIFICATION:**  
Paving shall be in accordance with Section 23 paragraph 2301 of the Howard County Zoning Regulations.

**GENERAL NOTES AND SITE ANALYSIS**

- Total Area - 3.132 acres onsite + 0.453 offsite = 3.585 acres
- Area to be paved and building - 1.841 acres
- Area to be revegetated - 0.791 acres
- Total disturbed area - 2.632 acres
- Total undisturbed area - 0.953 acres
- Zone - NT (New Town, open area credited) "FDP 139-A-I"
- No. of employees - 60 (including part-time)
- Ground floor area - 19,290 sq. ft.
- Recording Ref. No. - Plat Book 27, Folio 64
- Elevations shown are based on benchmark #1, spike set in 24" oak, elevation = 357.01
- Bearings shown hereon are based on Maryland State Grid North.
- Predominant soil type - Bourne Sandy Loam

**APPROVED**  
**PLANNING BOARD**  
**OF HOWARD COUNTY**  
DATE: *9-13-78*  
Signature: *[Signature]*

Revised 7 Dec, 1978 - Add Sec. 23, Block Paving  
Revised 8 Dec, 1978 - Add Plenum Pkg. Grading Tower  
Revised 11 Sept, 1978 - Bearing, Bearing Lot  
Revised 10 July 1978 - Entrance, Ref. Walls

**SITE DEVELOPMENT PLAN**

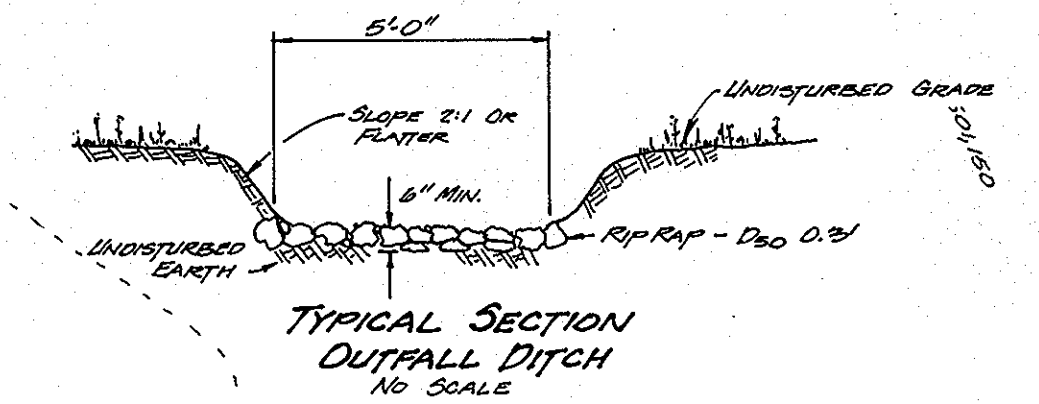
HOWARD COUNTY CENTRAL LIBRARY  
HOWARD COUNTY MUNICIPAL GOVERNMENT

TOWN CENTER, COLUMBIA  
SECTION 1, AREA 3, LOT 1, PARCEL 389  
TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
Howard County, Maryland

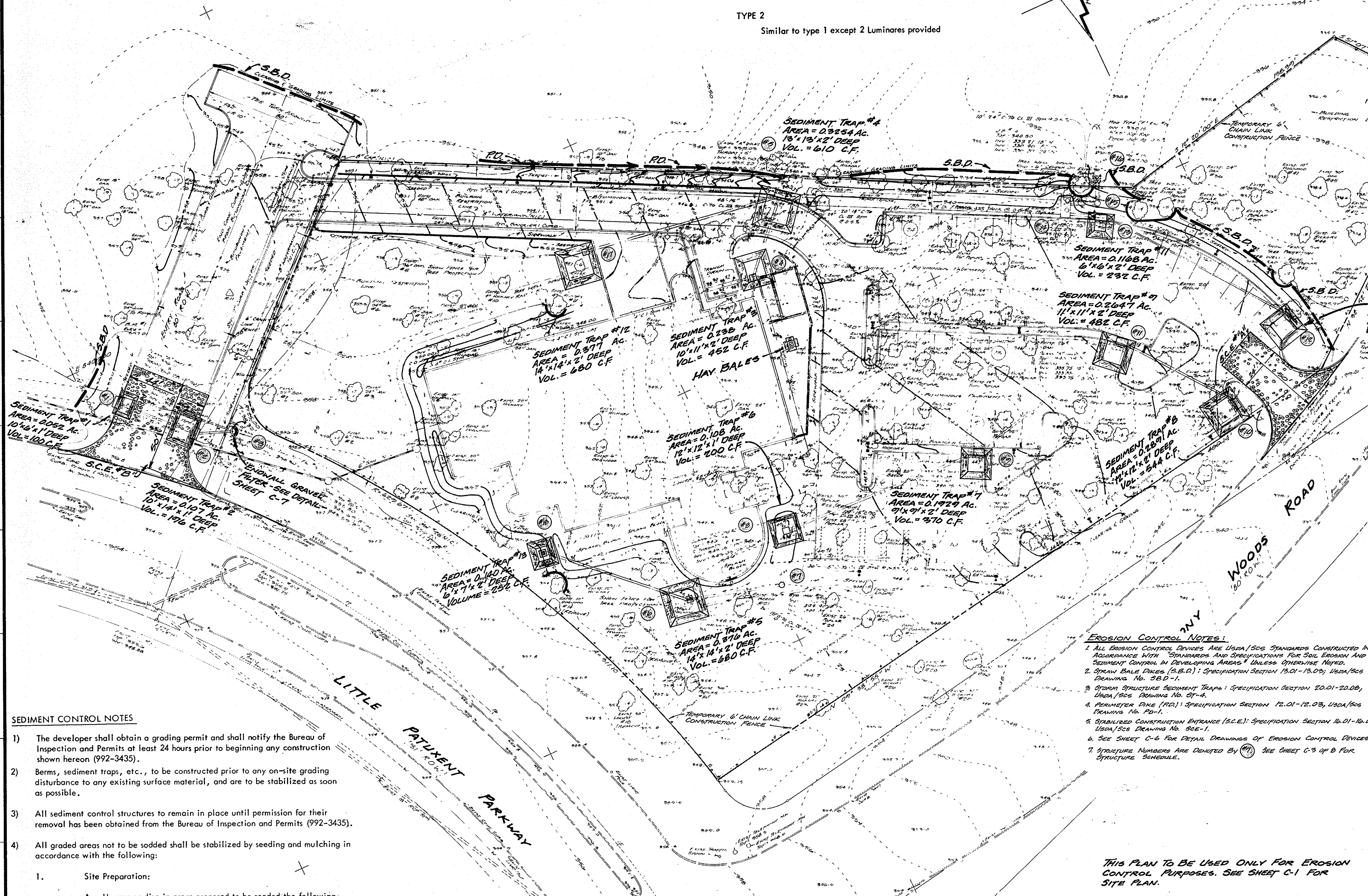
Date: DEC 15, 1978  
Scale: 1" = 30'  
Project No: 77209  
Sheet No: C-1 of 8  
© 1978 The VVCR Partnership

TYPE 1  
20 foot high pole mounted, rectangular area light, dark bronze  
1 Luminaire 1/ASL - 2LEC - 7 - CC - FS/ML  
250 W. H.P.S. mercury vapor lamp, 277 Volt  
Pole: ML5113-1  
I.E.S. - ANSI type III distribution

TYPE 2  
Similar to type 1 except 2 Luminaires provided



A  
B  
C  
D  
E  
F



**SEDIMENT CONTROL NOTES**

- The developer shall obtain a grading permit and shall notify the Bureau of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (992-3435).
- Berms, sediment traps, etc., to be constructed prior to any on-site grading disturbance to any existing surface material, and are to be stabilized as soon as possible.
- All sediment control structures to remain in place until permission for their removal has been obtained from the Bureau of Inspection and Permits (992-3435).
- All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
  - Site Preparation:
    - Harrow or disc in areas proposed to be seeded the following materials at the specified rate, to a depth of 3".
      - Pulverized limestone at 1-1/2 tons/acre.
      - Commercial fertilizer 5-10-10 at 3/4 tons/acre.
      - Super phosphate at 600 lbs/acre.
  - Seeding:
    - Sow the following seed mixture at the rate of 200 lbs./acre, with a mechanical spreader.
      - 20% Annual Rye Grass.
      - 80% Kentucky Fescue.
    - The seeded area shall then be raked with a York Rake (a minimum of two passes), covered and compacted with Cultipacker or other approved method.
  - Mulching:
    - Seeded areas shall be uniformly mulched immediately after seeding with underweathersed small grain straw at the rate of 1-1/2 tons to 2 tons/acre.
    - Tie mulch down with liquid asphalt at 0.1 gals./s.y. or emulsified asphalt at 0.04 gal./s.y. or mulch netting.

**EROSION CONTROL NOTES:**

- All erosion control devices are U.S.A. standards constructed in accordance with standards and specifications for soil erosion and sediment control in developing areas unless otherwise noted.
- Spray Sump Ditches (S.S.D.): Specification Section 15.01-15.03, U.S.A./S.D. Drawing No. S.B.D.-1.
- Storm Structure Sediment Traps: Specification Section 20.01-20.03, U.S.A./S.D. Drawing No. ST-4.
- Perimeter Dike (PD): Specification Section 12.01-12.03, U.S.A./S.D. Drawing No. S.D.-1.
- Stabilized Construction Entrance (S.C.E.): Specification Section 16.01-16.03, U.S.A./S.D. Drawing No. S.C.E.-1.
- See Sheet C-6 for Detail Drawings of Erosion Control Devices.
- Structure Numbers are Denoted by (M) SEE SHEET C-5 OF B FOR STRUCTURE SCHEDULE.

**THIS PLAN TO BE USED ONLY FOR EROSION CONTROL PURPOSES. SEE SHEET C-1 FOR SITE PLAN.**

**LEGEND**

ITEM	NEW	EXISTING
PROPERTY LINE	---	---
SECT ELEVATIONS	+	+
CONTOURS	---	---
BUILDING (B)	▭	▭
BITUMINOUS PAVING	▨	▨
CONCRETE PAVING & WALKS	▩	▩
CONCRETE CURB & GUTTER	▧	▧
CONCRETE HEADER CURB	▦	▦
BITUMINOUS CURB	▥	▥
SANITARY SEWER (MANHOLE)	○	○
STORM SEWER STRUCTURE	⊕	⊕
OVERHEAD POWER LINE (POLE)	—	—
OVERHEAD TELEPHONE LINE (POLE)	—	—
POLE BUY WIRE (ANCHOR)	—	—
UNDERGROUND POWER LINE	---	---
UNDERGROUND TELEPHONE LINK (PROBATAL)	---	---
WATER MAIN	---	---
FIRE HYDRANT (VALVE)	+	+
GAS MAIN	---	---
UNDERGROUND OIL/FUEL STORAGE TANK	⊙	⊙
RETAINING WALL	▬	▬
STEPS	▬	▬
TERRACE OR SHRUBS	▬	▬
WOODED AREAS	▬	▬
SOIL BORINGS	⊙	⊙
PARKING SPACE COUNT	⊙	⊙
SITE LIGHT - TYPE 1	⊙	⊙
SITE LIGHT - TYPE 2	⊙	⊙

**DEVELOPER'S CERTIFICATE**

I certify that all development and/or construction will be done according to this plan of development and plan for erosion and sediment control, and I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as are deemed necessary. Deviation from this plan will not be made unless authorized by the Howard Soil Conservation District.

Signature of Developer: *Jerome J. Moran*  
Date: *Jan 13, 1979*

**ENGINEER'S 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.

Signature of Engineer: *Carl C. Redinger*  
Date: *13 Dec 1978*

APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.  
Richard E. Breudenbergy, Director, 1/19/79  
APPROVED: For public water and public sewerage systems, Howard County Health Department.  
Jayman Proffers, County Health Officer, 1-19-79

APPROVED: Howard County Office of Planning and Zoning.  
Planning Director: *John W. Marshall*, Date: 1-19-79  
Chief, Division of Land Development

APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
Richard E. Breudenbergy, Director, 1/19/79  
W. O. Pickett, Chief, Bureau of Engineering, 1-18-79

REVIEWED FOR HOWARD COUNTY S.C.D. and meets technical requirements.  
Signature: *Walter Kestel*, Date: 1-1-79  
U.S. Soil Conservation Service

This development plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.  
Approved: *Wes Fink*, Date: 1-18-79  
Howard S.C.D.

PAVING SPECIFICATION:  
Paving shall be in accordance with Section 23 paragraph 2301 of the Howard County Zoning Regulations.

**GENERAL NOTES AND SITE ANALYSIS**

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- Elevations shown are based on benchmark #1, spike set in 24" oak, elevation = 357.01
- Bearings shown hereon are based on Maryland State Grid North.
- Predominant soil type - Bourne Sandy Loam

**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
DATE: 9-13-78  
Signature: *JAM*

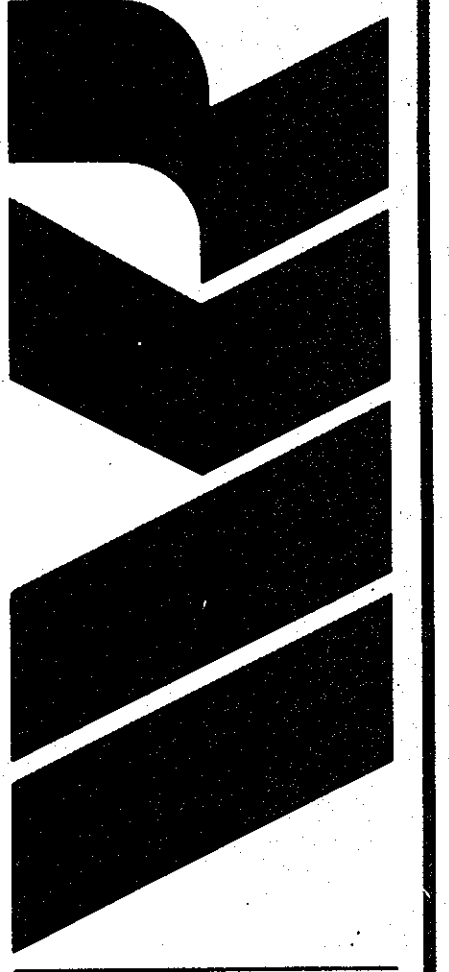
REVISED: 16 JAN, 1979 - ADD STRUCTURE NUMBERS  
REVISED: 16 JAN, 1979 - CHANGE FROM 1/2" TO 1" DEPTH  
REVISED: 8 MAR, 1979 - TYPE # 112  
REVISED: 11 SEP, 1978 - TRAPS # 1, 1 & 12  
REVISED: 30 AUG, 1978 - DITCH SECTION 1/2" DEPTH  
REVISED: 22 JULY, 1978 - CHANGE FROM 1/2" TO 1" DEPTH

**SOIL EROSION AND SEDIMENT CONTROL PLAN**

HOWARD COUNTY CENTRAL LIBRARY  
HOWARD COUNTY MUNICIPAL GOVERNMENT

TOWN CENTER, COLUMBIA  
SECTION 1, AREA 3, LOT 1, PARCEL 389  
TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
Howard County, Maryland

720 North Saint Asaph Street  
Alexandria, Virginia 22314



Date: DEC. 15, 1978  
Scale: 1" = 30'  
Project No: 77209  
Sheet No: C-2 of 8  
© 1978 The VVKKR Partnership

SITE LIGHTING

TYPE 1  
20 foot high pole mounted, rectangular area light, dark bronze  
1 Luminaire 1/ASL - 2LEC - 7 - CC - FS/ML  
250 W. H. P.S. mercury vapor lamp, 277 Volt  
Pole: ML5113-1  
I.E.S. - ANSI type III distribution

TYPE 2  
Similar to type 1 except 2 Luminaires provided

STORM SEWER STRUCTURE SCHEDULE

Class "A" Inlet #1  
Top = 356.11  
Throat = 5'  
Inv. = 352.28 (15" out)

Class "A" Inlet #2  
Top = 356.11  
Throat = 5'  
Inv. = 353.86 (15" in)  
Inv. = 352.05 (15" in)  
Inv. = 350.97 (15" out)

Modified Type "F" E. W. #3  
Top = 355.30 (15")  
Inv. = 335.30 (15")

Class "C" Inlet #4  
Top = 339.04  
2 Throats, - W. & E.  
Inv. = 337.00 (6" in)  
Inv. = 335.50 (6" in)  
Inv. = 336.44 (15" out)

Class "A" Inlet #5  
Top = 339.03  
Throat = 5'  
Inv. = 335.20 (2'-15" in)  
Inv. = 335.10 (18" out)

Class "B" Inlet #6  
Top = 349.50  
Inv. = 348.15 (15" in)  
Inv. = 349.06 (15" out)

Class "A" Inlet #10  
Top = 338.08  
Throat = 5'  
Inv. = 334.23 (15" out)

Class "A" Inlet #11  
Top = 340.08  
Throat = 5'  
Inv. = 335.75 (15" in)  
Inv. = 333.85 (15" in)  
Inv. = 333.70 (15" out)

Class "A" Inlet #12  
Top = 337.73  
Throat = 5'  
Inv. = 334.00 (15" out)

Class "A" Inlet #13  
Top = 340.08  
Throat = 5'  
Inv. = 333.41 (15" in)  
Inv. = 333.40 (15" in)  
Inv. = 333.30 (18" out)

Junction Box #14  
Top = 340.50  
Inv. = 333.21 (18" in)  
Inv. = 330.40 (F. T. in)  
Inv. = 330.37 (24" out)

Std. Mh. #15  
Top = 337.00  
Inv. = 330.20 (24" in)  
Inv. = 330.20 (24" out)

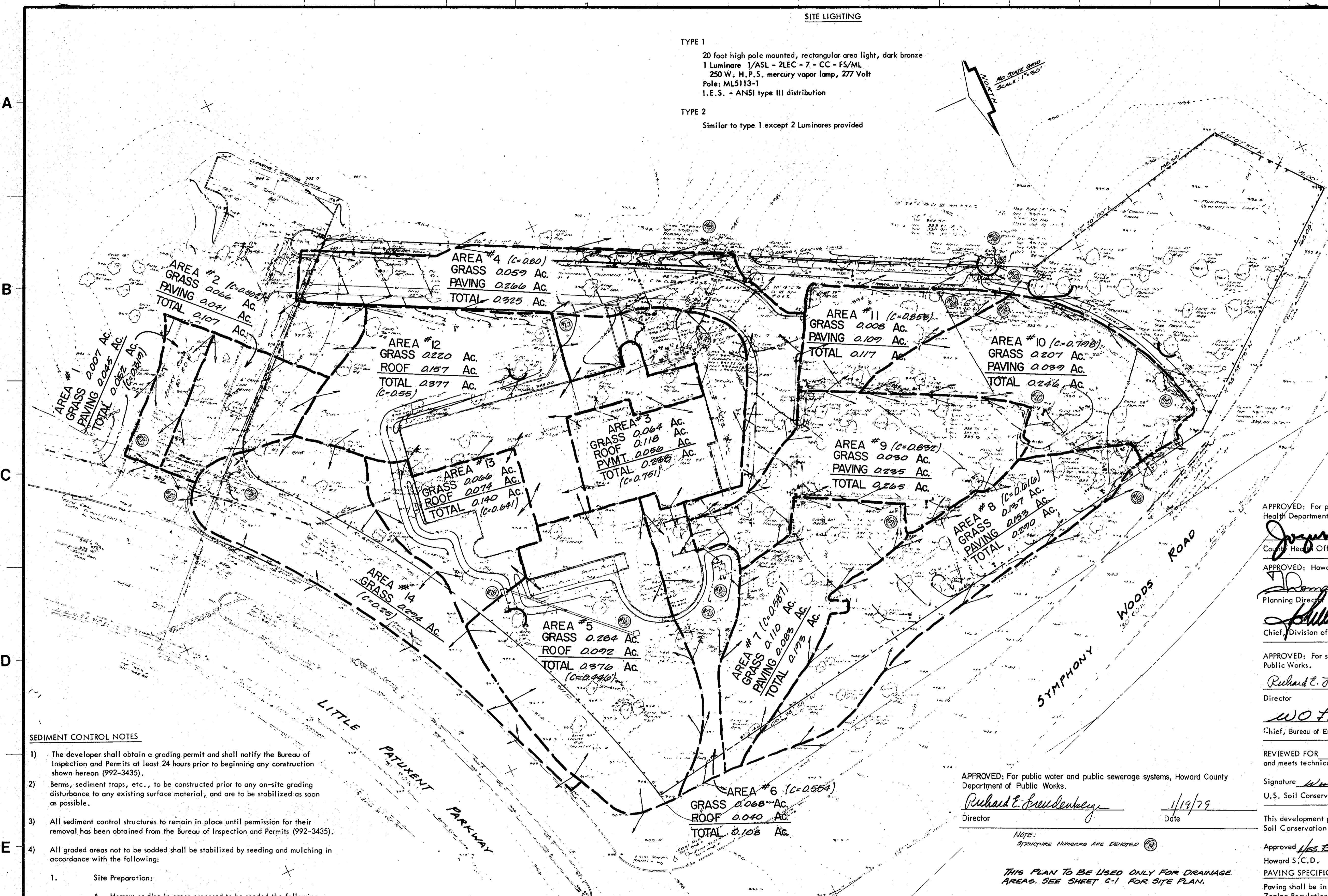
Modified Type "F" E. W. #16  
Inv. = 330.15 (15")

Class "B" Inlet #7  
Top = 349.50  
Inv. = 348.15 (15" in)  
Inv. = 349.06 (15" out)

Class "A" Inlet #8  
Top = 340.75 (15" in)  
Inv. = 340.90 (15" out)

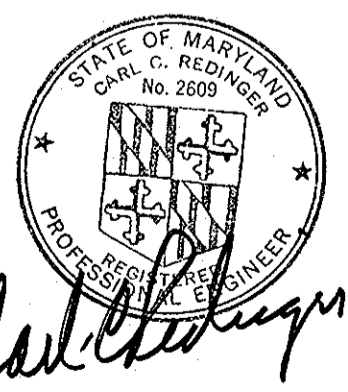
Class "B" Inlet #9  
Top = 340.75 (15" in)  
Inv. = 341.45 (15" out)

NOTE:  
CLASS "A" INLETS ARE HOWARD CO. STANDARD, DRAWING #4-A  
PAGE #10-A  
CLASS "B" INLETS ARE HOWARD CO. STD., DRAWING #4-C, PAGE #10-C  
CLASS "C" INLETS ARE HOWARD CO. STD., DIV. #10-B, PAGE #10-B  
MANHOLES ARE HOWARD CO. STANDARD, DIV. #10-A, PAGE #10-A  
SIGNALS ARE HOWARD CO. STANDARD, DIV. #10-D, PAGE #10-D



SEDIMENT CONTROL NOTES

- The developer shall obtain a grading permit and shall notify the Bureau of Inspection and Permits at least 24 hours prior to beginning any construction shown hereon (992-3435).
- Berms, sediment traps, etc., to be constructed prior to any on-site grading disturbance to any existing surface material, and are to be stabilized as soon as possible.
- All sediment control structures to remain in place until permission for their removal has been obtained from the Bureau of Inspection and Permits (992-3435).
- All graded areas not to be sodded shall be stabilized by seeding and mulching in accordance with the following:
  - Site Preparation:
    - Harrow or disc in areas proposed to be seeded the following materials at the specified rate, to a depth of 3":
      - Pulverized limestone at 1-1/2 tons/acre.
      - Commercial fertilizer 5-10-10 at 3/4 tons/acre.
      - Super phosphate at 600 lbs/acre.
  - Seeding:
    - Sow the following seed mixture at the rate of 200 lbs./acre, with a mechanical spreader.
      - 20% Annual Rye Grass.
      - 80% Kentucky Fescue.
    - The seeded area shall then be raked with a York Rake (a minimum of two passes), covered and compacted with Cultipacker or other approved method.
  - Mulching:
    - Seeded areas shall be uniformly mulched immediately after seeding with underweathersed small grain straw at the rate of 1-1/2 tons to 2 tons/acre.
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Signature of Developer: *Jerome J. Monar*  
Date: *Jan. 13, 1978*

ENGINEER'S 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.

Signature of Engineer: *Carl C. Redinger*  
Date: *18 Dec 1978*

APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.

Signature: *Richard E. Brendenheyer*  
Date: *1/19/79*

NOTE:  
STRUCTURE NUMBERS ARE DENOTED

THIS PLAN TO BE USED ONLY FOR DRAINAGE AREAS. SEE SHEET C-1 FOR SITE PLAN.

LEGEND		
ITEM	NEW	EXISTING
PROPERTY LINE	- - - - -	- - - - -
SPOT ELEVATIONS	- 361 -	- 357 -
CONTOURS	- - - - -	- - - - -
BUILDING (B)	[Symbol]	[Symbol]
BITUMINOUS PAVING	[Symbol]	[Symbol]
CONCRETE PAVING & WALKS	[Symbol]	[Symbol]
CONCRETE CURB & GUTTER	[Symbol]	[Symbol]
CONCRETE HEADER CURB	[Symbol]	[Symbol]
BITUMINOUS CURB	[Symbol]	[Symbol]
SANITARY SEWER (MANHOLE)	[Symbol]	[Symbol]
STORM SEWER STRUCTURE	[Symbol]	[Symbol]
OVERHEAD POWER LINE (POLE)	[Symbol]	[Symbol]
OVERHEAD TELEPHONE LINE (POLE)	[Symbol]	[Symbol]
DRILL GUY WIRE (ANCHOR)	[Symbol]	[Symbol]
UNDERGROUND POWER LINE	[Symbol]	[Symbol]
UNDERGROUND TELEPHONE LINE (PROBABLE)	[Symbol]	[Symbol]
WATER MAIN	[Symbol]	[Symbol]
FIRE HYDRANT (VALVE)	[Symbol]	[Symbol]
GAS MAIN	[Symbol]	[Symbol]
UNDERGROUND OIL/FUEL STORAGE TANK	[Symbol]	[Symbol]
RETAINING WALL	[Symbol]	[Symbol]
TREES OR SHRUBS	[Symbol]	[Symbol]
WOODS AREAS	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
SOIL BORINGS	[Symbol]	[Symbol]
MARKING SPACE COUNT	[Symbol]	[Symbol]
DRIVE LIGHT - TYPE 1	[Symbol]	[Symbol]
DRIVE LIGHT - TYPE 2	[Symbol]	[Symbol]

APPROVED: For public water and public sewerage systems, Howard County Health Department.

Signature: *Joseph Bongiorno*  
Date: *1-19-79*

APPROVED: Howard County Office of Planning and Zoning.

Signature: *Donald L. Harrison*  
Date: *1-19-79*

Signature: *Phillip Marchman*  
Date: *1-19-79*

APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.

Signature: *Richard E. Brendenheyer*  
Date: *1/19/79*

Signature: *W.O. P. Went*  
Date: *1-18-79*

REVIEWED FOR: *HOWARD COUNTY* S.C.D. and meets technical requirements.

Signature: *Wendell Benedict*  
Date: *1-18-79*

U.S. Soil Conservation Service

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

Approved: *WES FEAR*  
Date: *1-18-79*

Howard S.C.D.

PAVING SPECIFICATION:  
Paving shall be in accordance with Section 23 paragraph 2301 of the Howard County Zoning Regulations.

GENERAL NOTES AND SITE ANALYSIS

- Total Area - 3,132 acres onsite + 0,453 offsite = 3,585 acres
- Area to be paved and building - 1,841 acres
- Area to be revegetated - 0,791 acres
- Total disturbed area - 2,632 acres
- Total undisturbed area - 0,953 acres
- Zone - NT (New Town, open area credited)
- No. of employees - 60 (including part-time)
- Ground floor area - 19,290 sq. ft.
- Recording Ref. No. - Plat Book 27, Folio 64
- Elevations shown are based on benchmark #1, spike set in 24" oak, elevation = 357.01
- Bearings shown hereon are based on Maryland State Grid North.
- Predominant soil type - Bourne Sandy Loam

**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE: *9-13-78*  
Signature: *John*

REVISED 16 JAN, 1979 - ADD GUY WIRE, "C" PAVEMENT  
REVISED 11 SEPT, 1978 - AREA #3, #5, #10, #12, #13  
REVISED 10 SEPT, 1978 - AREA #4, 1 AREA #12  
REVISED 10 JULY, 1978 - AREAS 1 & DIVIDES

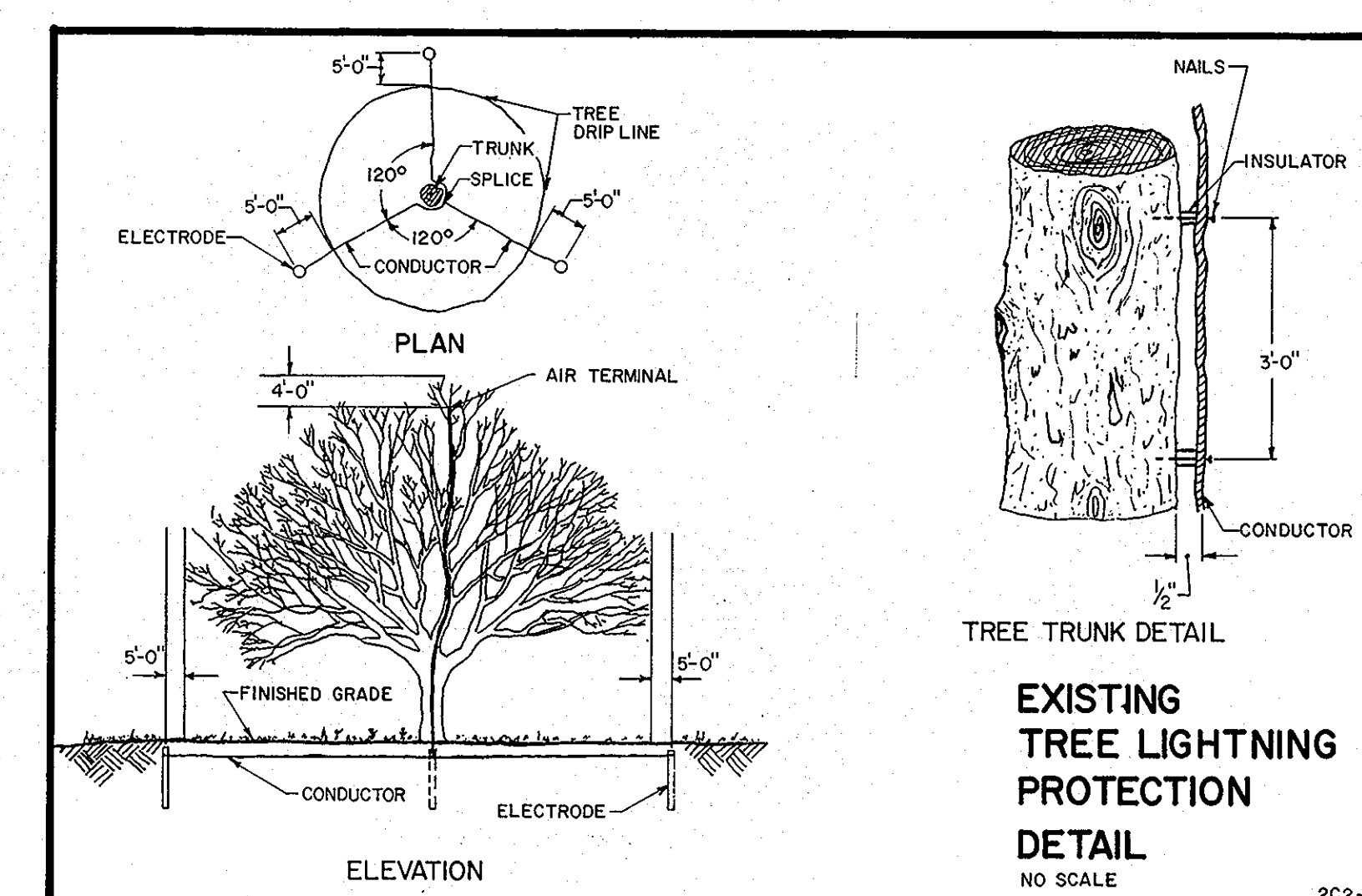
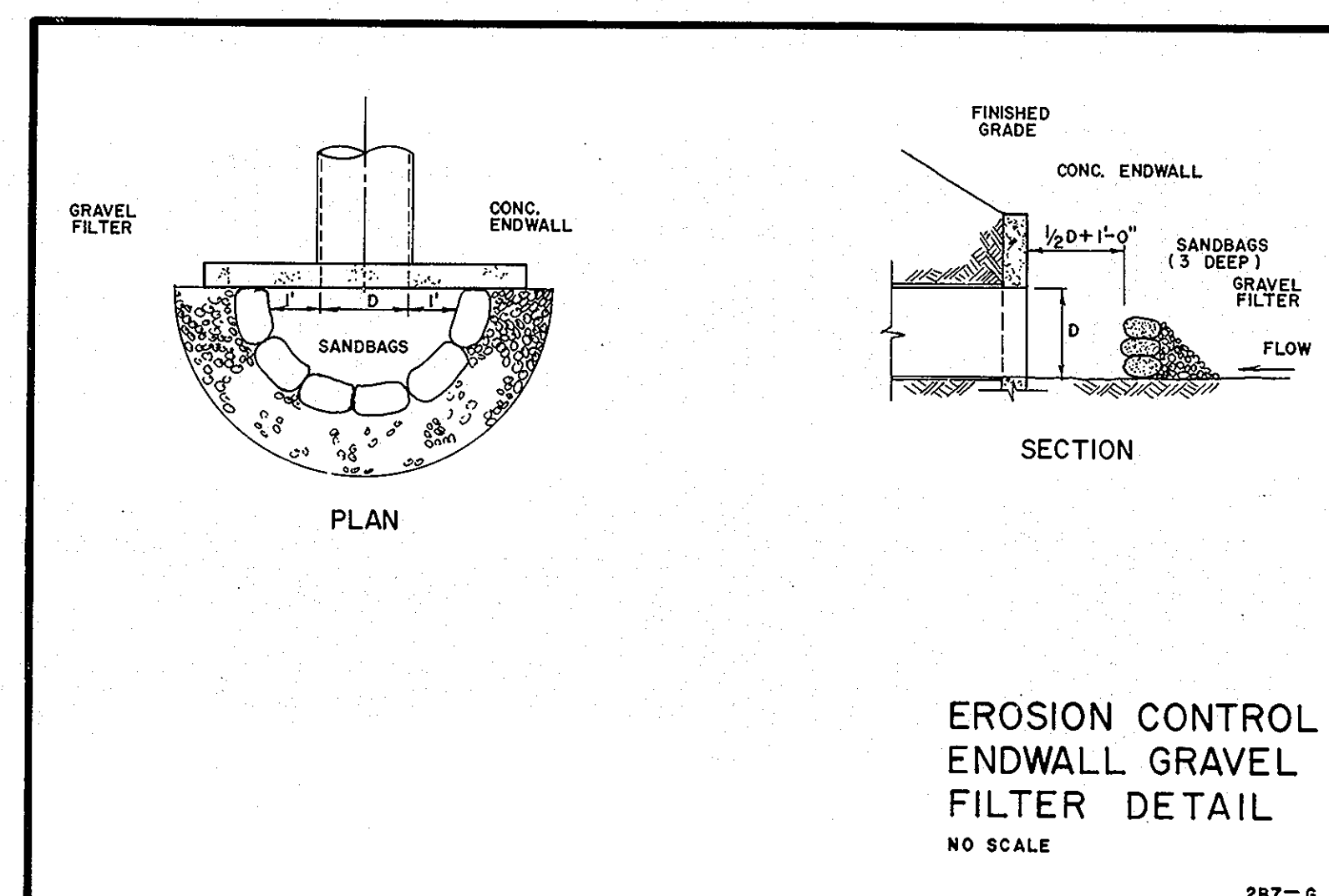
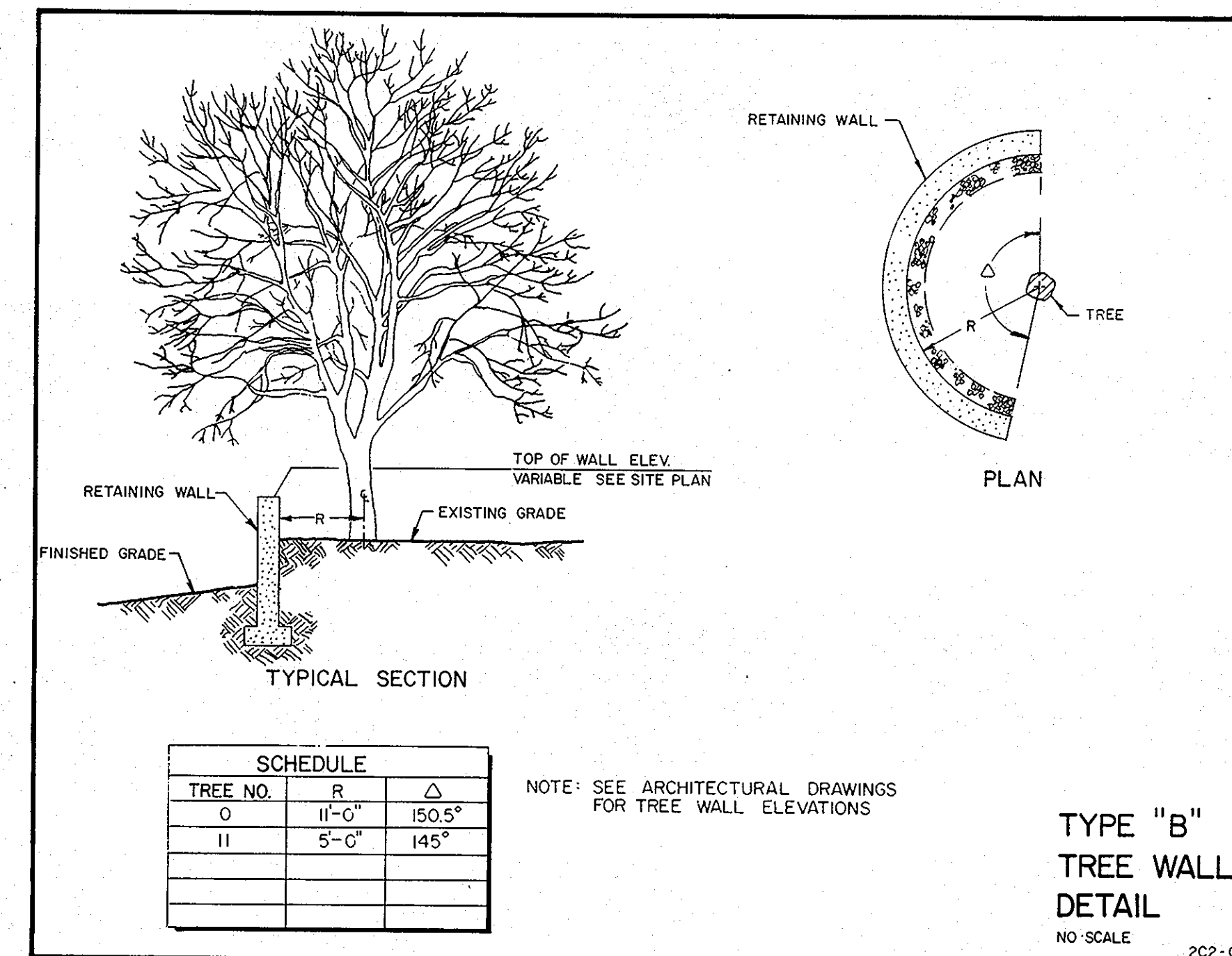
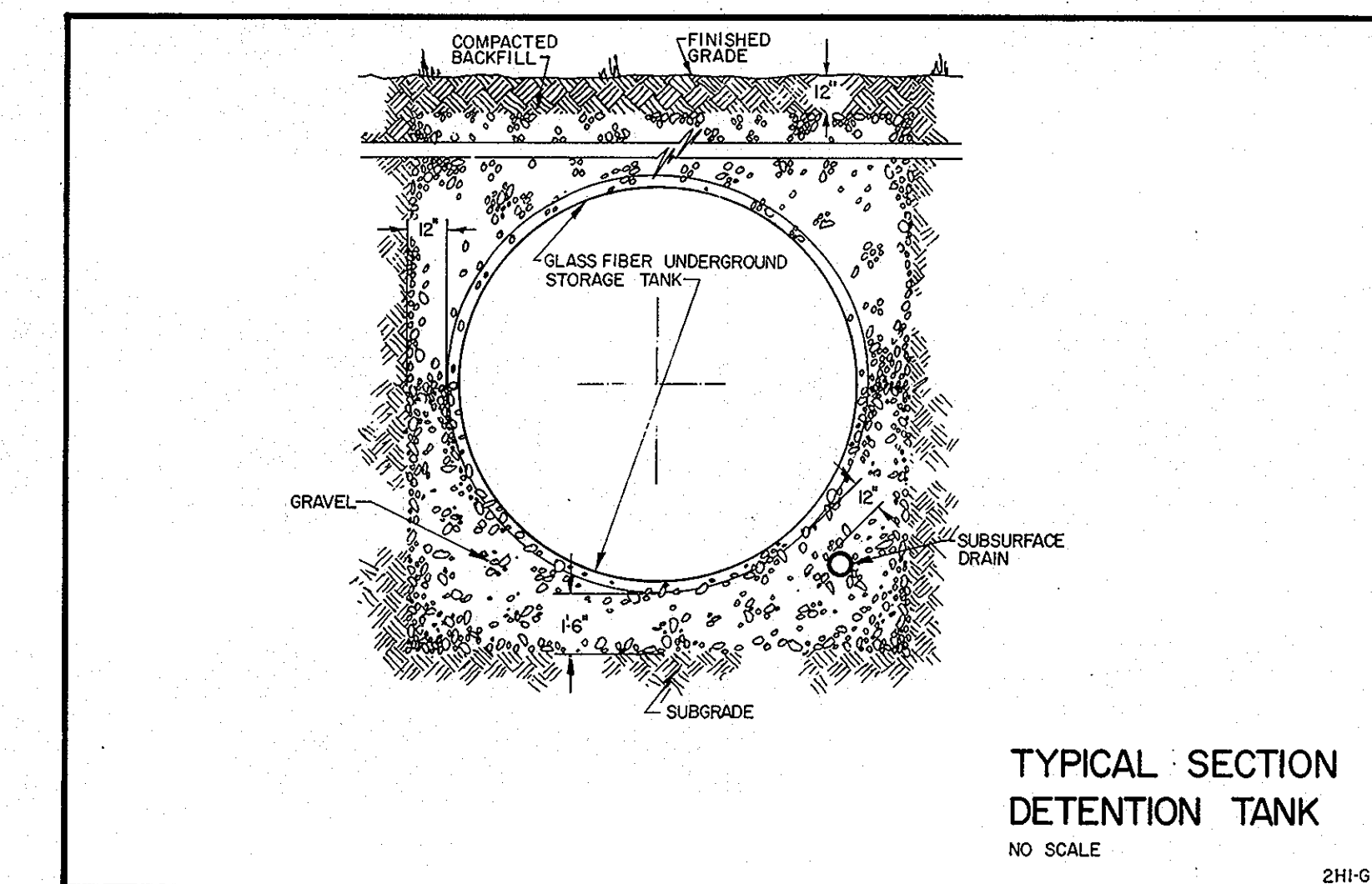
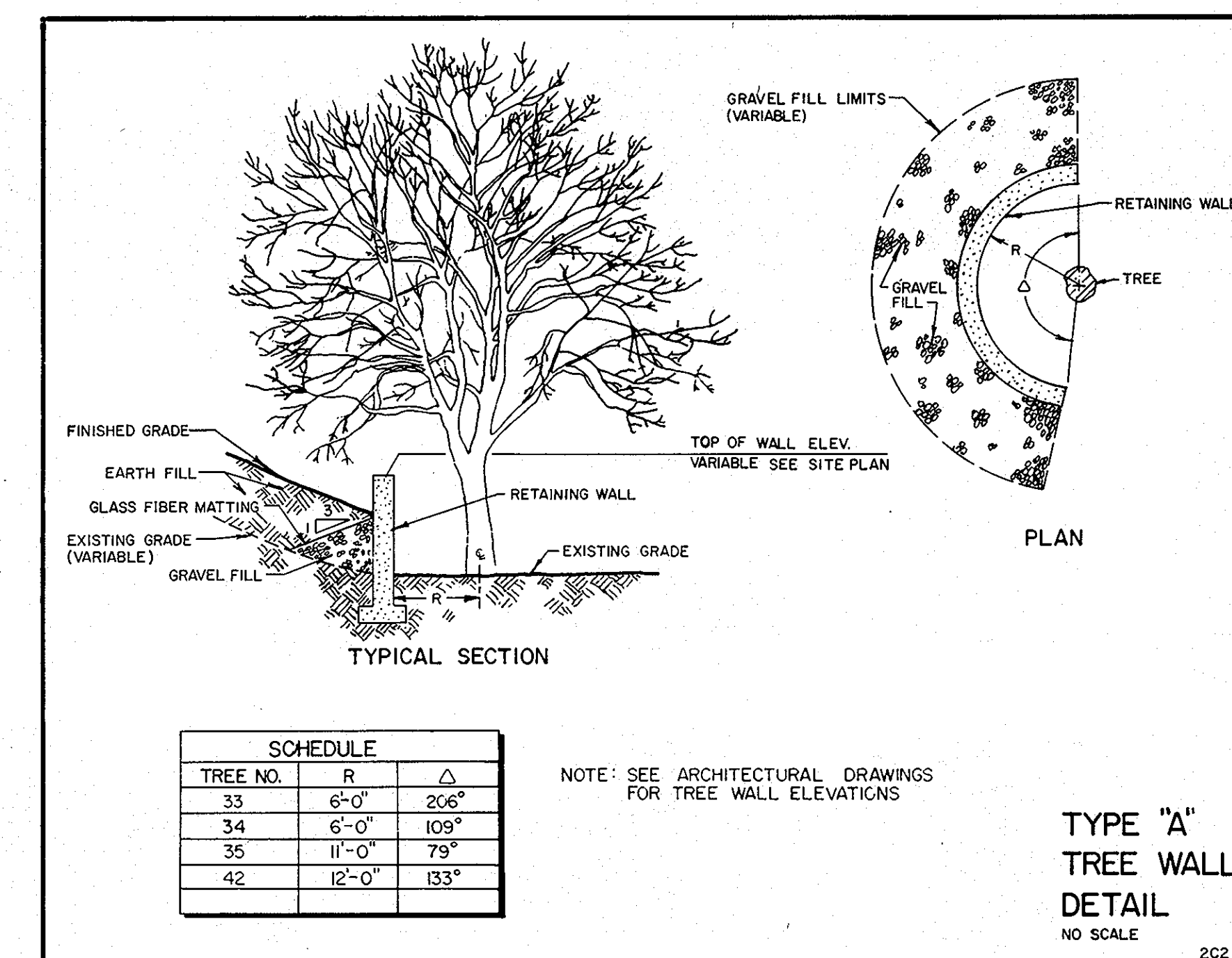
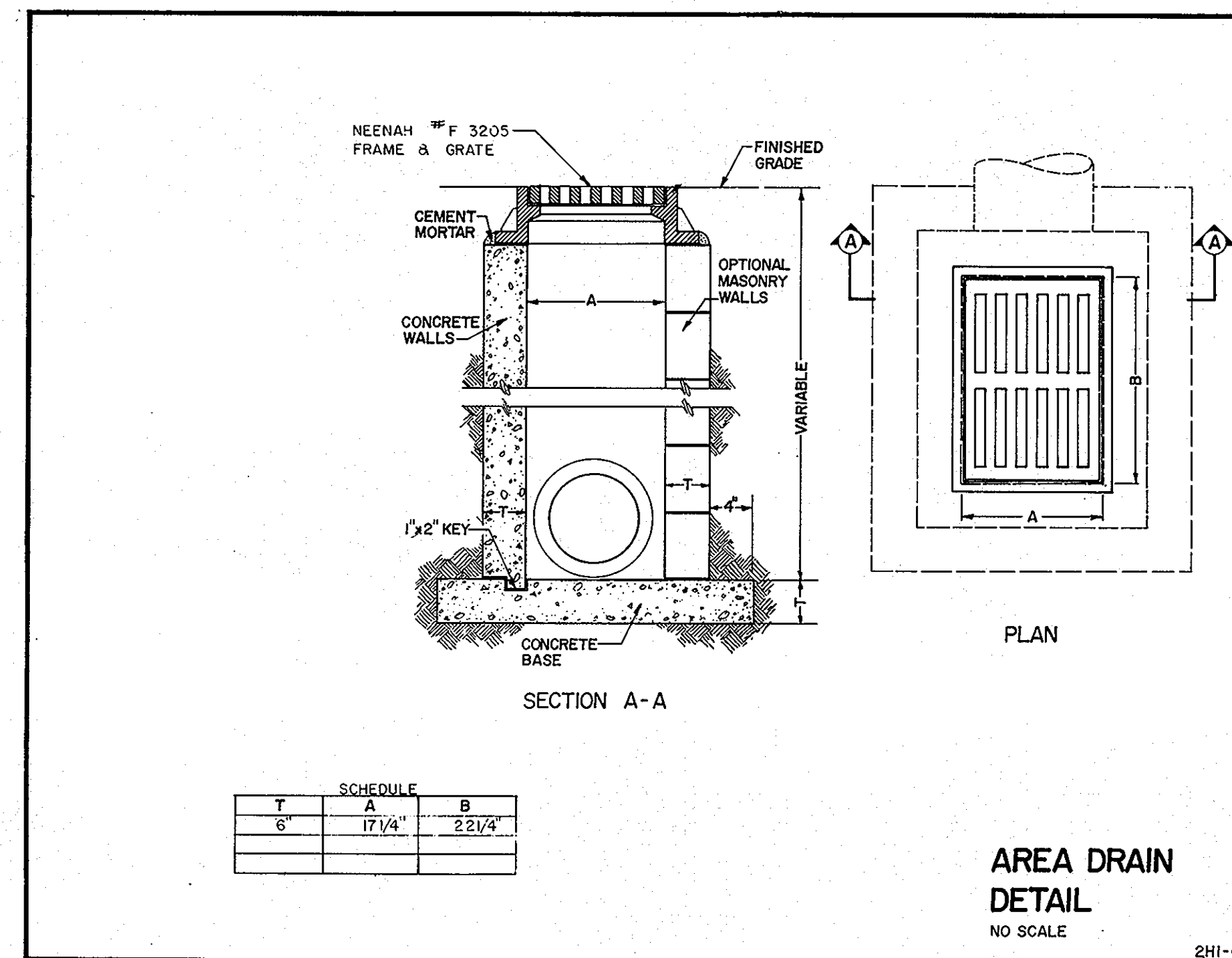
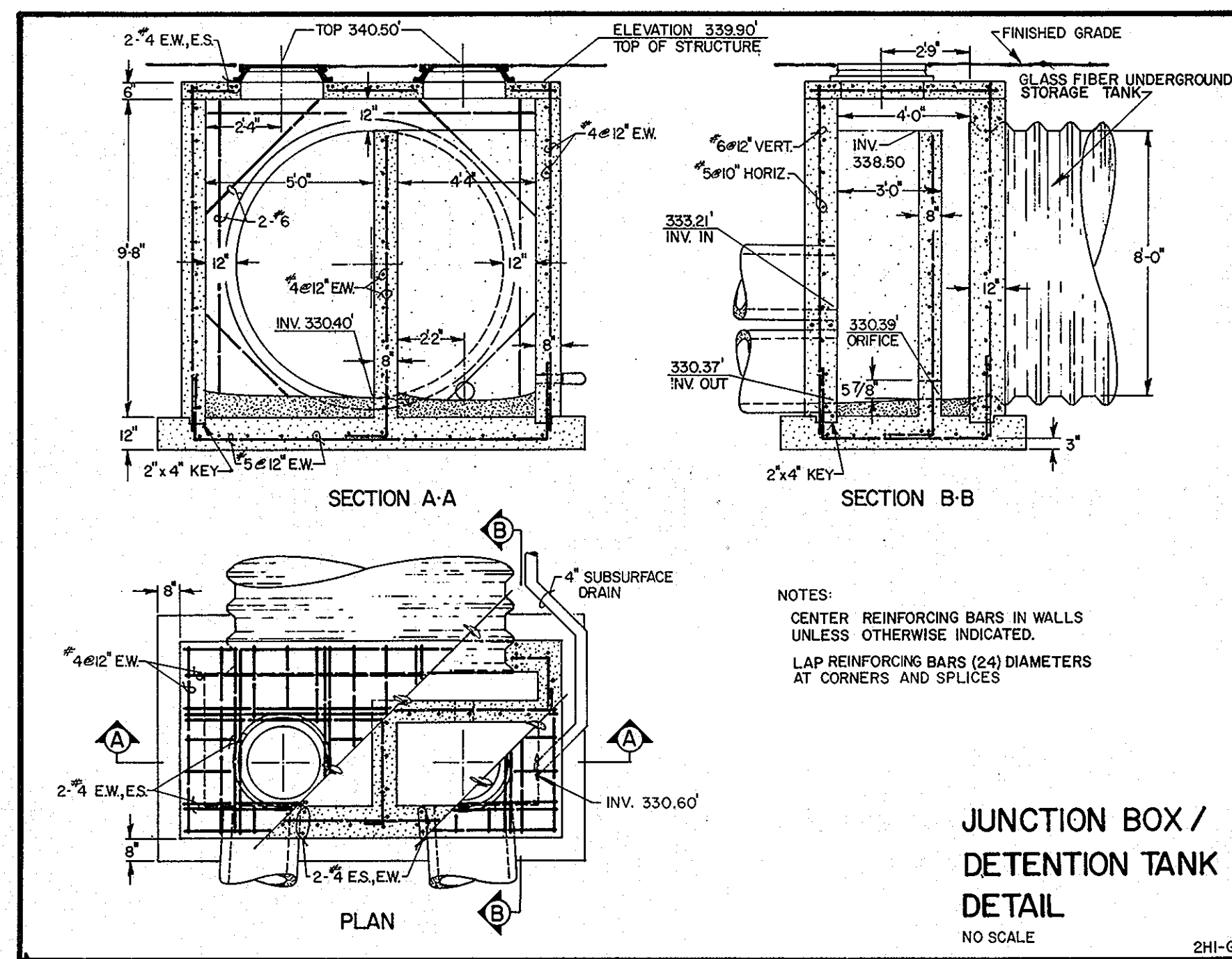
HOWARD COUNTY CENTRAL LIBRARY  
HOWARD COUNTY MUNICIPAL GOVERNMENT

720 North Saint Asaph Street  
Alexandria, Virginia 22314

DATE: DEC. 15, 1978  
Scale: 1" = 30'  
Project No: 77209  
Sheet No: C-3 of 8  
© 1978 The VVCR Partnership

DRAINAGE AREA PLAN

TOWN CENTER, COLUMBIA  
SECTION 1, AREA 3, LOT 1, PARCEL 389  
TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
Howard County, Maryland



APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.  
 Richard E. Freudenberger, Director, 1/19/79, Date 1-19-79

APPROVED: For public water and public sewerage systems, Howard County Health Department.  
 Jayson Boyd, County Health Officer, 1-19-79, Date 1-19-79

APPROVED: Howard County Office of Planning and Zoning.  
 Thomas J. Davis, Planning Director, 1-19-79, Date 1-19-79

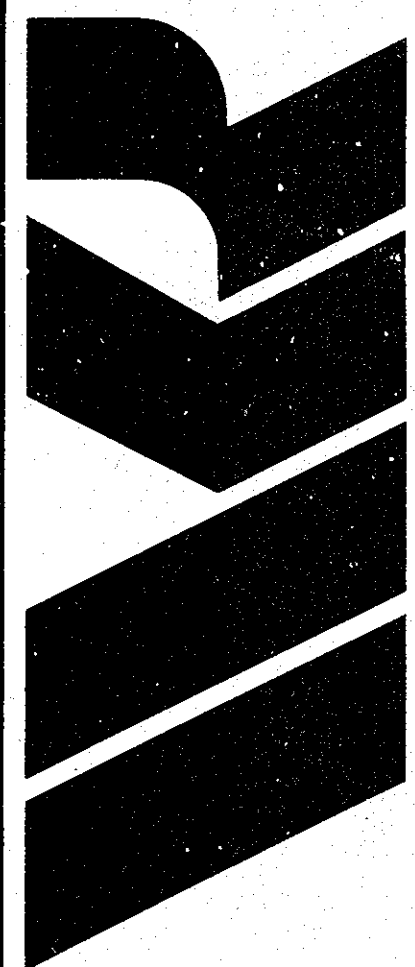
APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
 Richard E. Freudenberger, Director, 1/19/79, Date 1-18-79

W. O. Lambert, Chief, Bureau of Engineering, 1-18-79, Date 1-18-79



**MISCELLANEOUS SITE DETAILS**  
 HOWARD COUNTY CENTRAL LIBRARY  
 HOWARD COUNTY MUNICIPAL GOVERNMENT  
 TOWN CENTER, COLUMBIA  
 SECTION 1, AREA 3, LOT 1, PARCEL 369  
 TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
 Howard County, Maryland

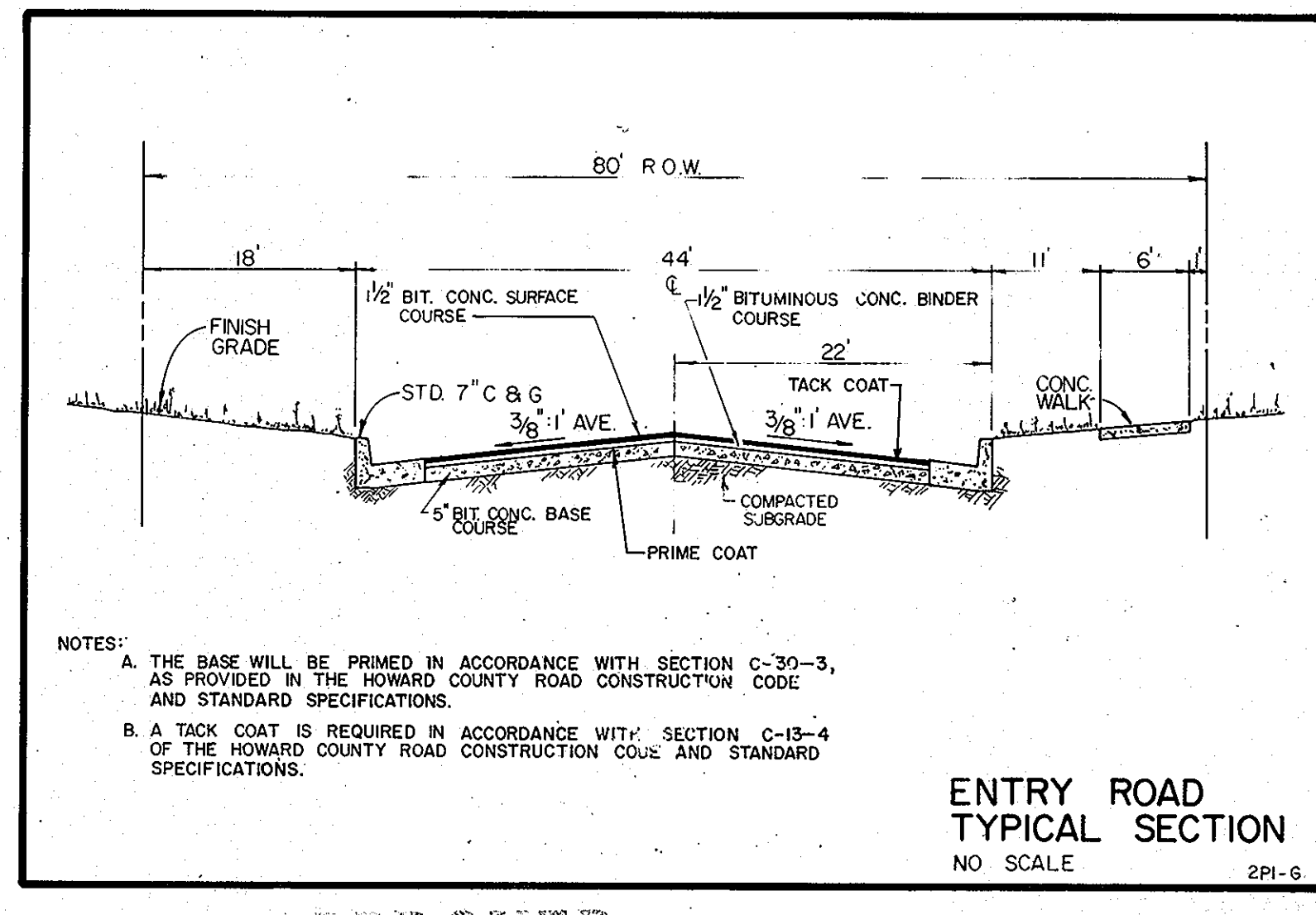
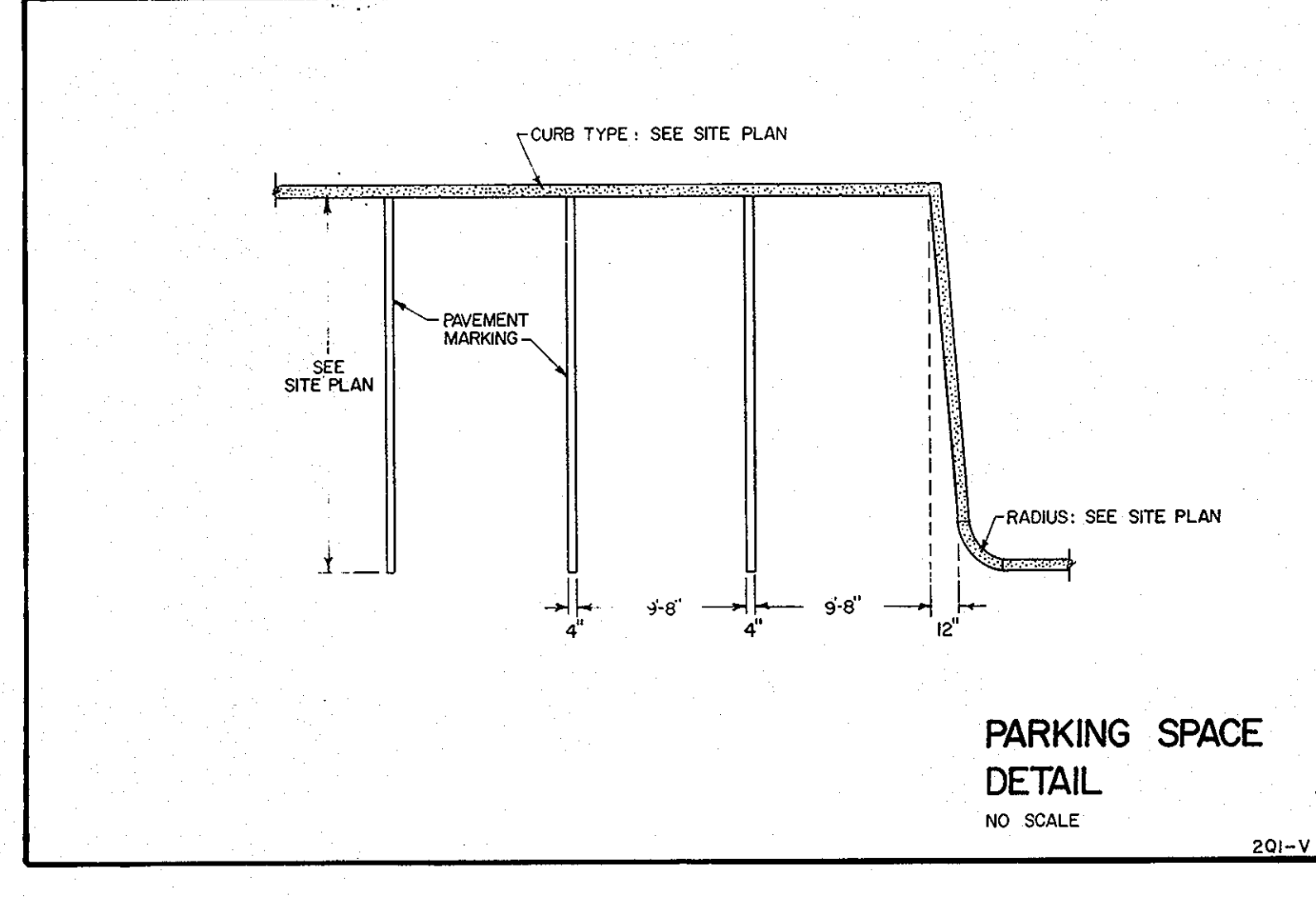
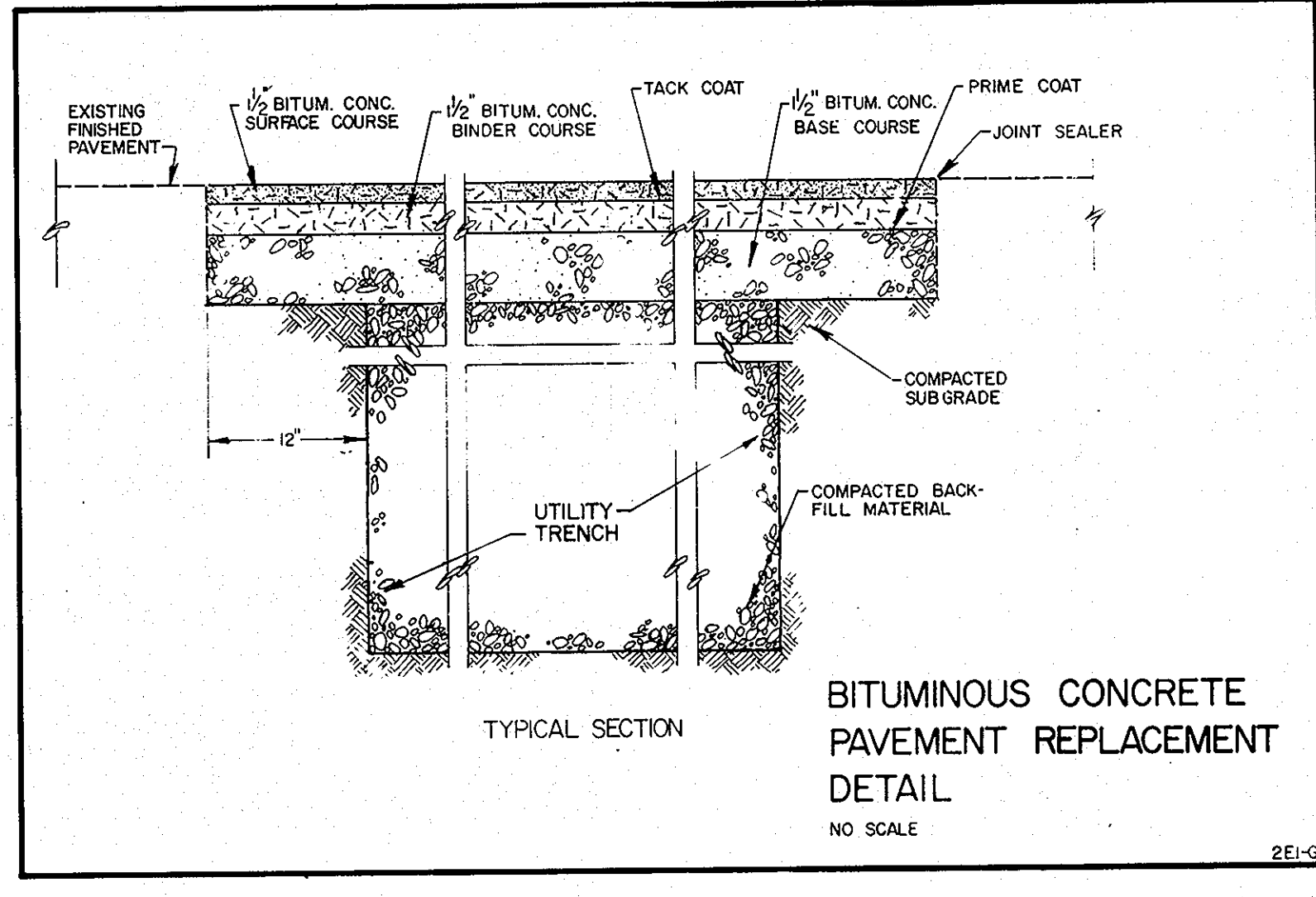
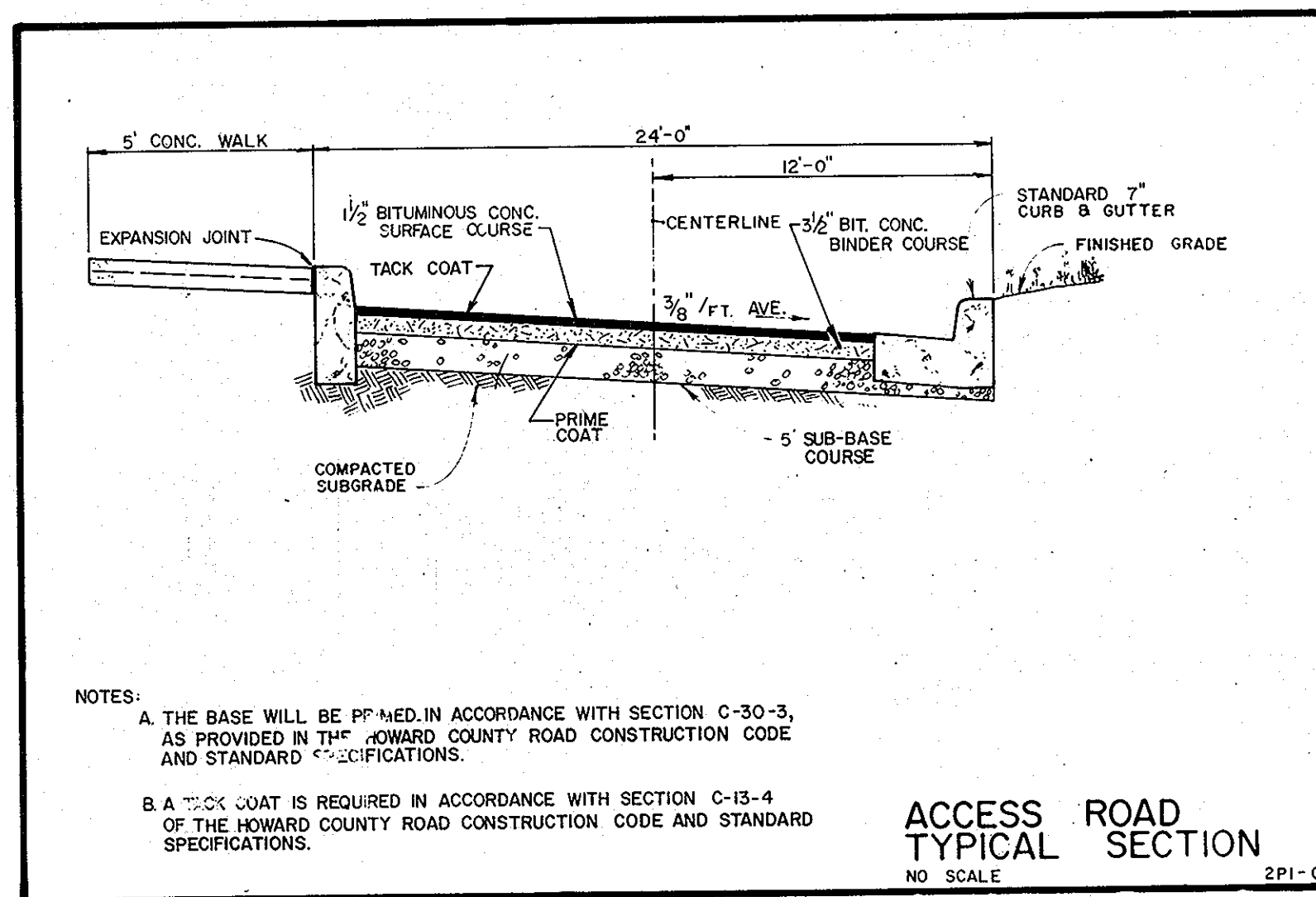
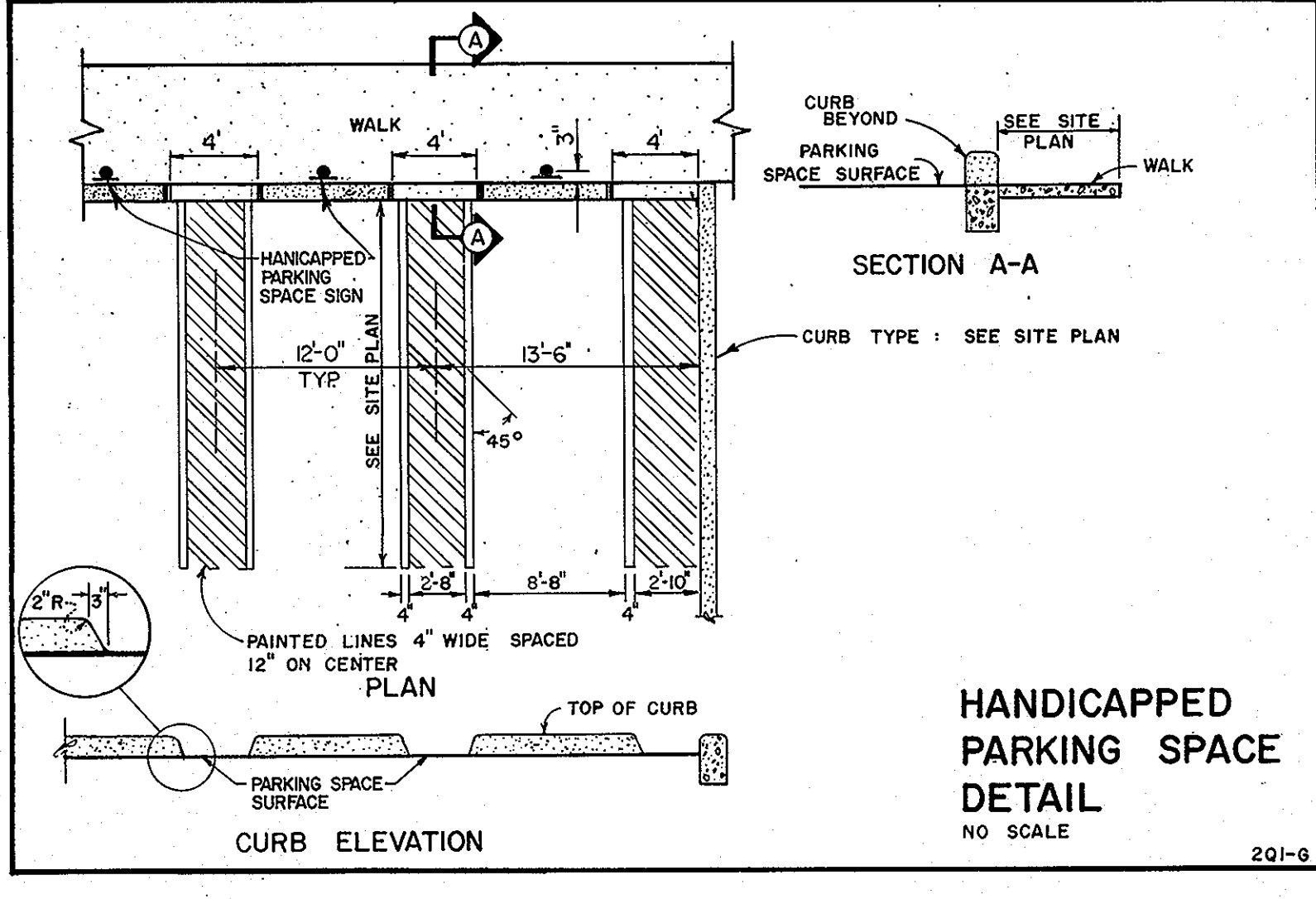
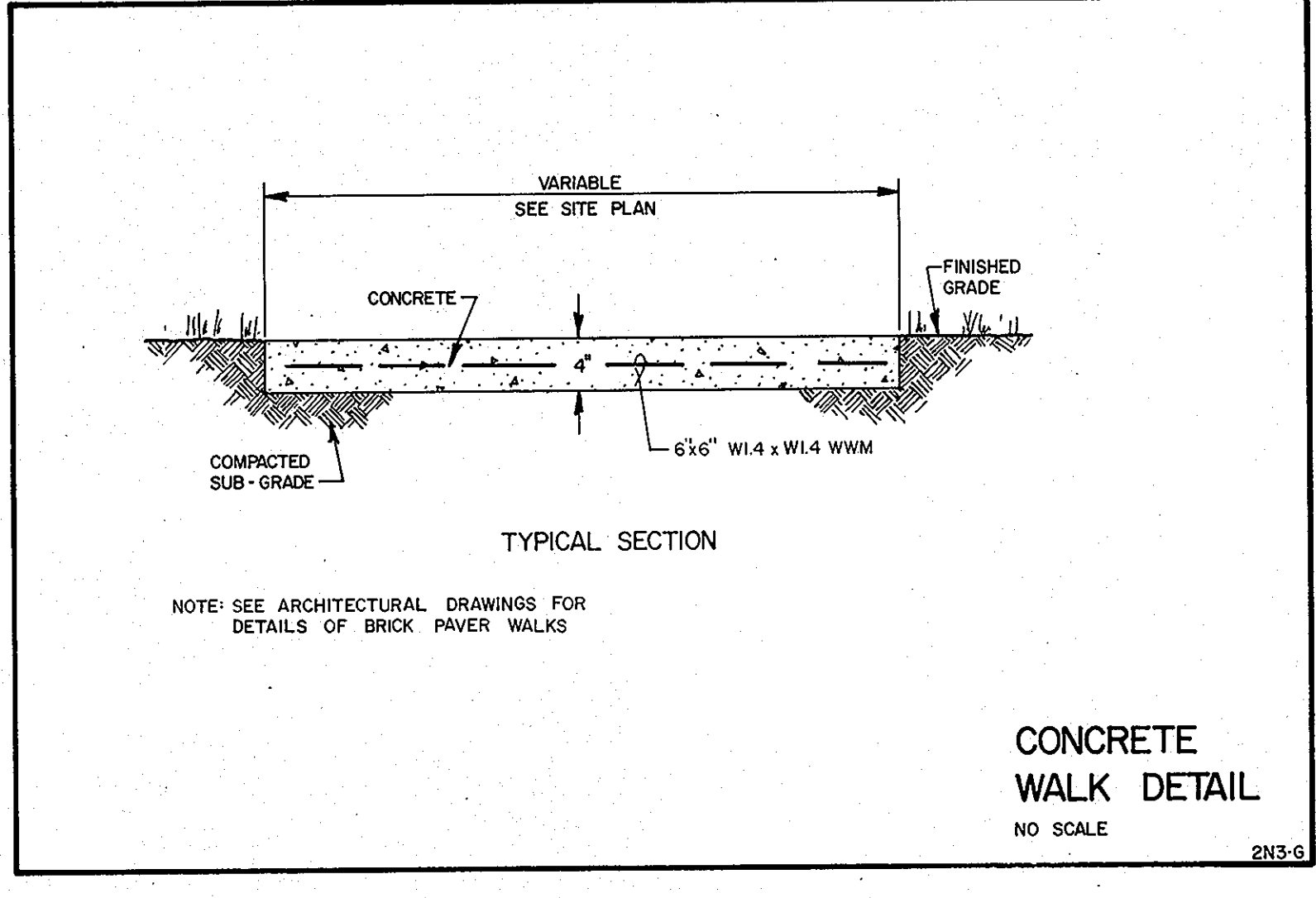
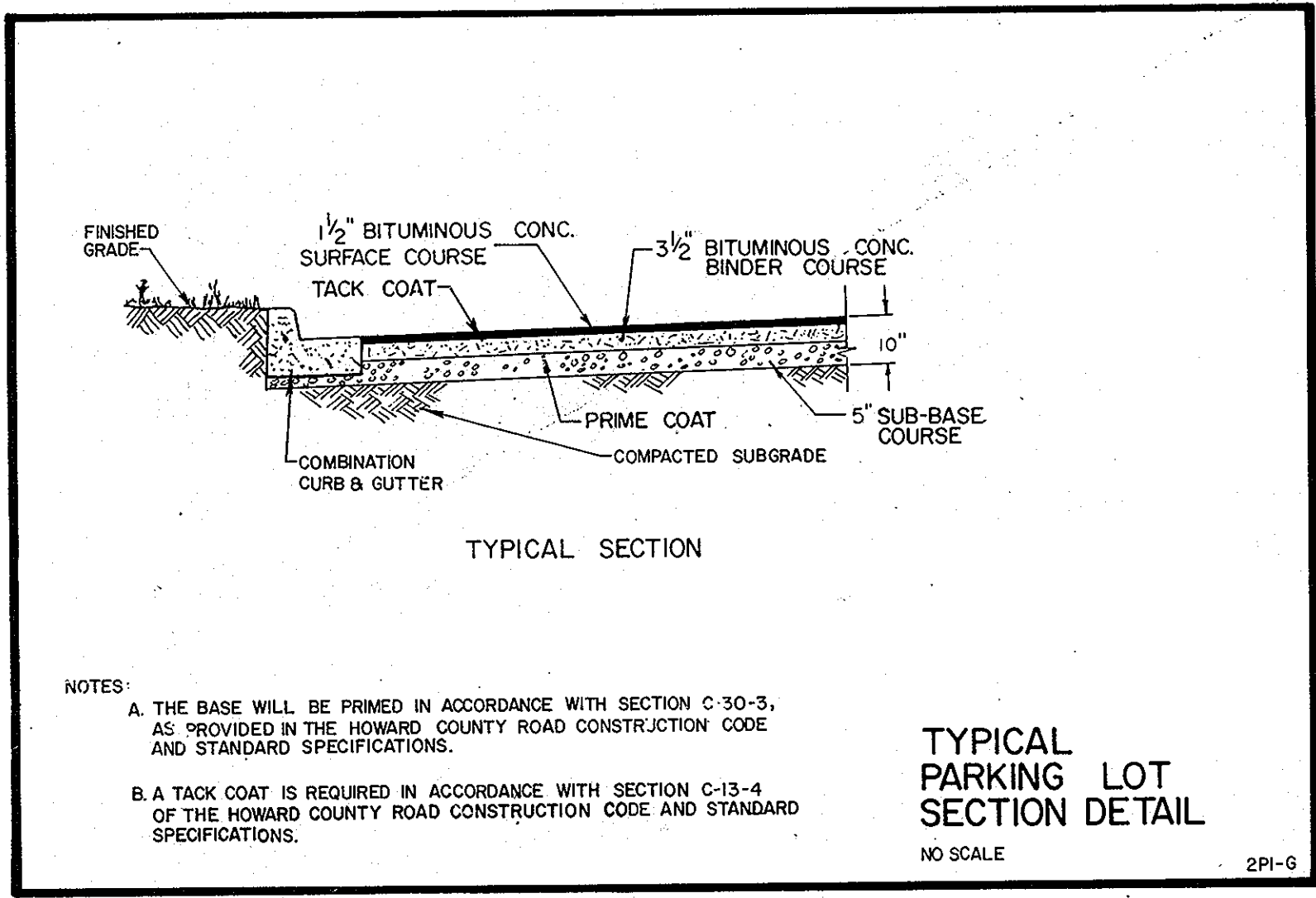
**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9-13-78  
*[Signature]*



Date: DEC. 15, 1978  
 Scale: NONE  
 Project No: 77209  
 Sheet No C-4 of 8

REVISED 11 DEC. 1978 - TREE WALL DETAILS  
 REVISED 30 SEPT. 1978 - REPAIRING WALL DETAILS  
 REVISED 11 SEPT. 1978 - JUNCTION BOX DRAWINGS VALUE

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APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.  
*Richard E. Breidenberg* 1/17/79  
 Director Date

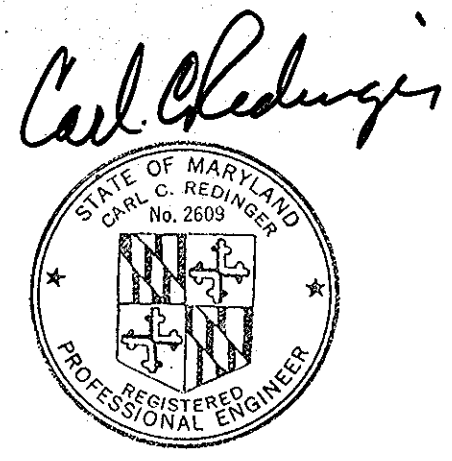
APPROVED: For public water and public sewerage systems, Howard County Health Department.  
*James P. Brown* 1-19-79  
 County Health Officer Date

APPROVED: Howard County Office of Planning and Zoning.  
*Thomas H. Smith* 1-19-79  
 Planning Director Date

*Phillip M. Schuman* 1-18-79  
 Chief, Division of Land Development Date

APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
*Richard E. Breidenberg* 1/19/79  
 Director Date

*W. O. Abbott* 1-18-79  
 Chief, Bureau of Engineering Date



**APPROVED**  
 PLANNING BOARD  
 OF HOWARD COUNTY  
 DATE 9-13-78  
*Sum*

Revised 9 Dec. 1978 - Planning Section  
 Revised 30 Sept. 1978 - Survey Road Section  
 Revised 11 Sept. 1978 - Parking Sections  
 Revised 19 July, 1978 - Handicapped Park.  
 © 1978 The WVKR Partnership

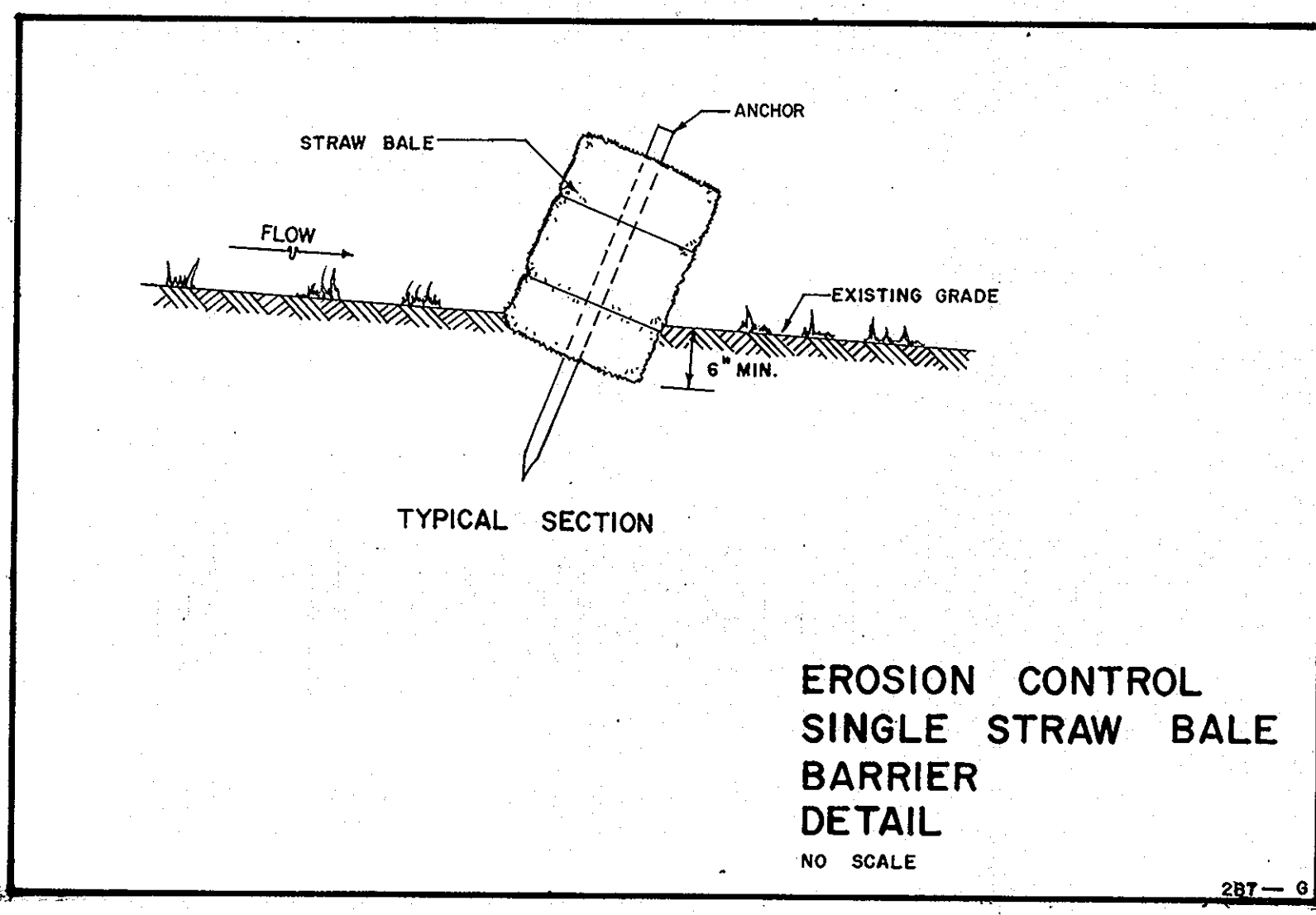
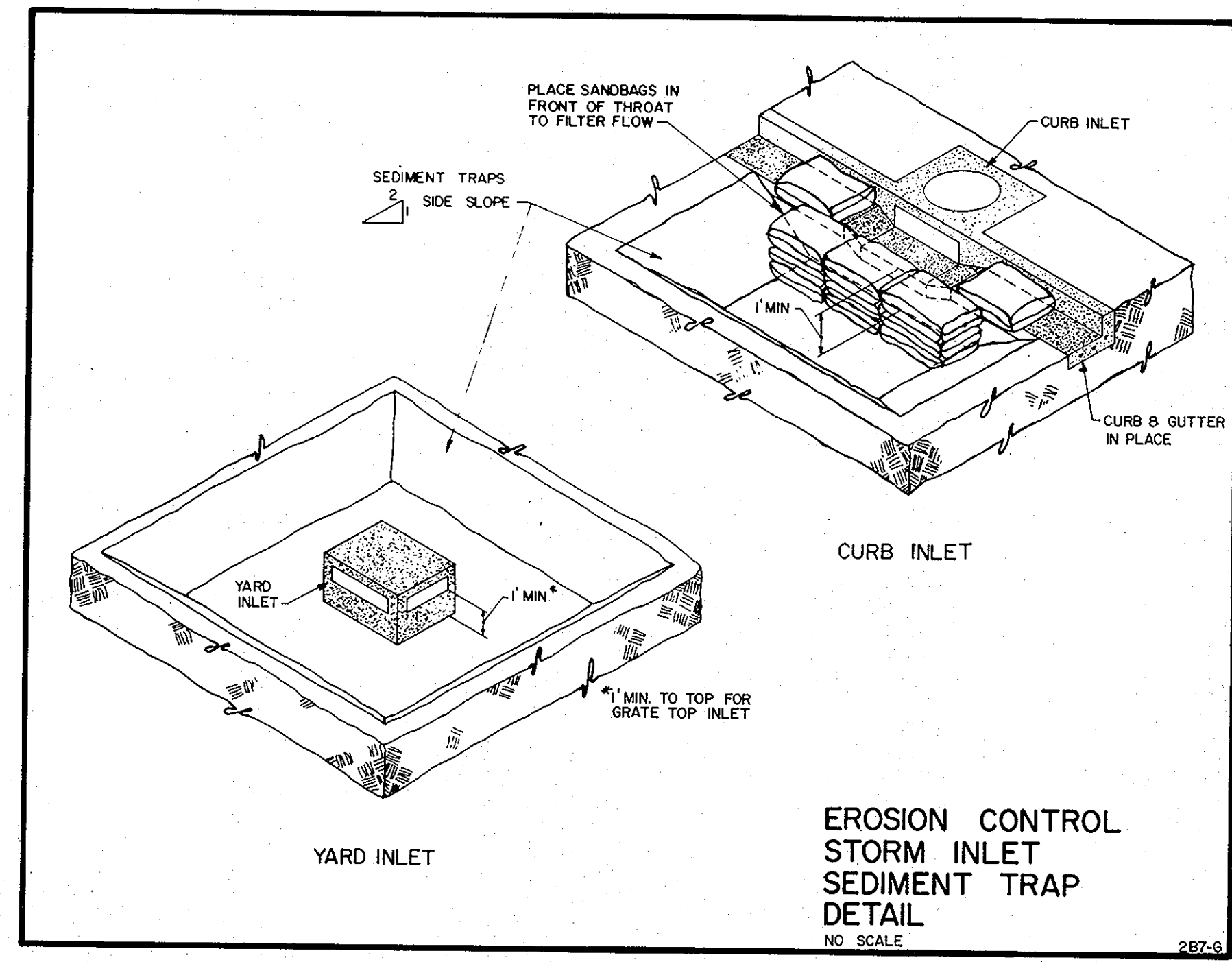
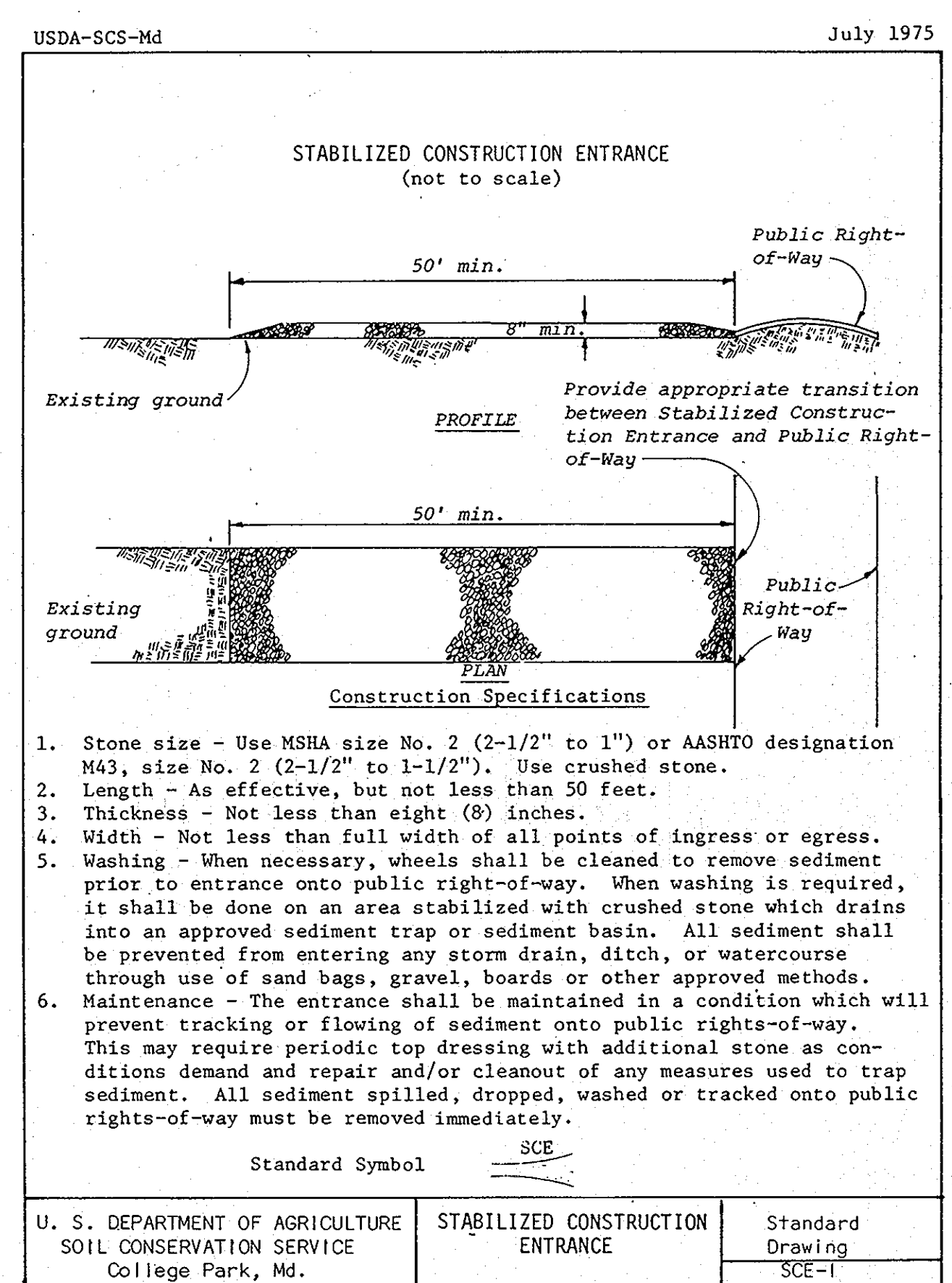
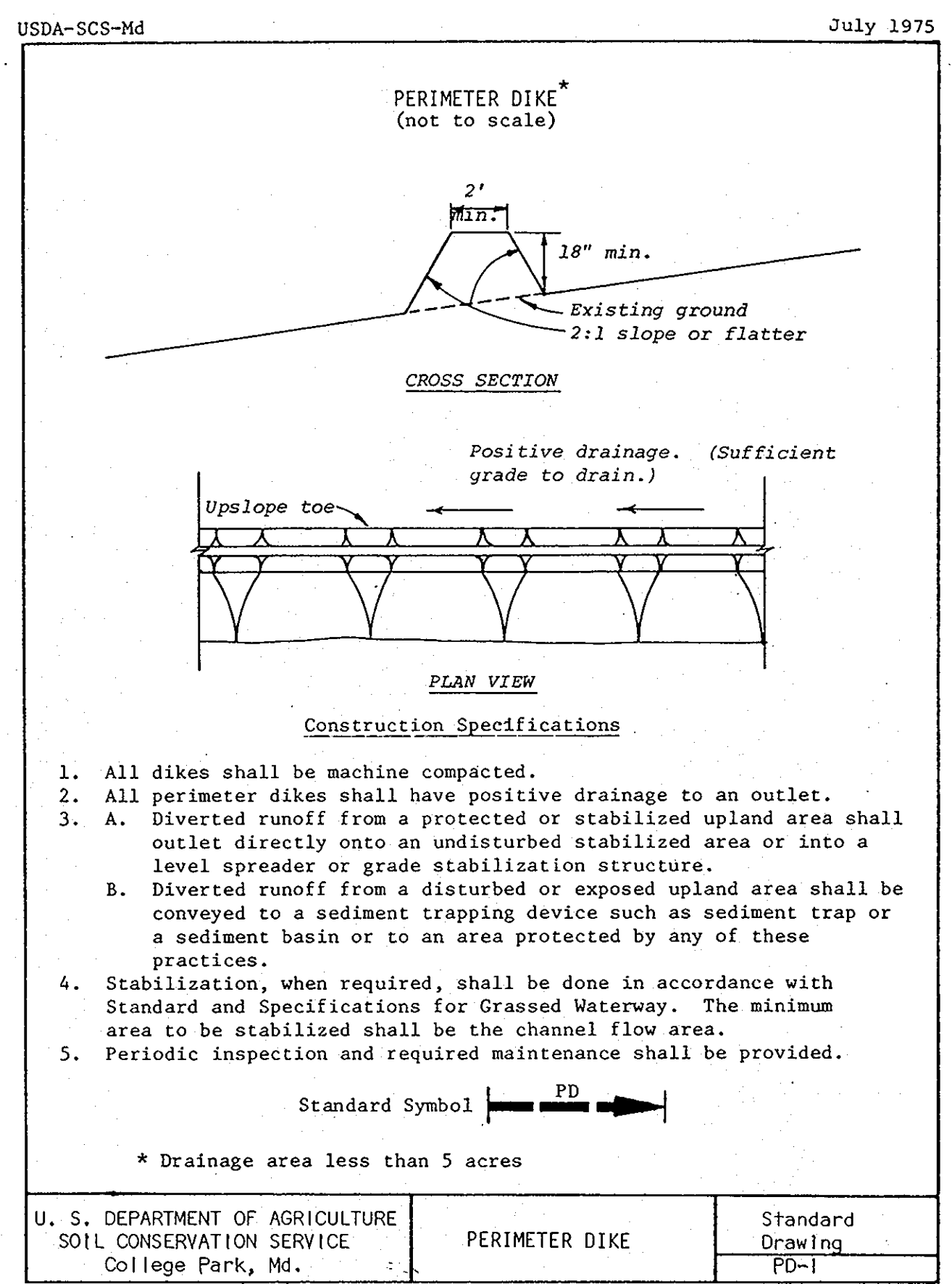
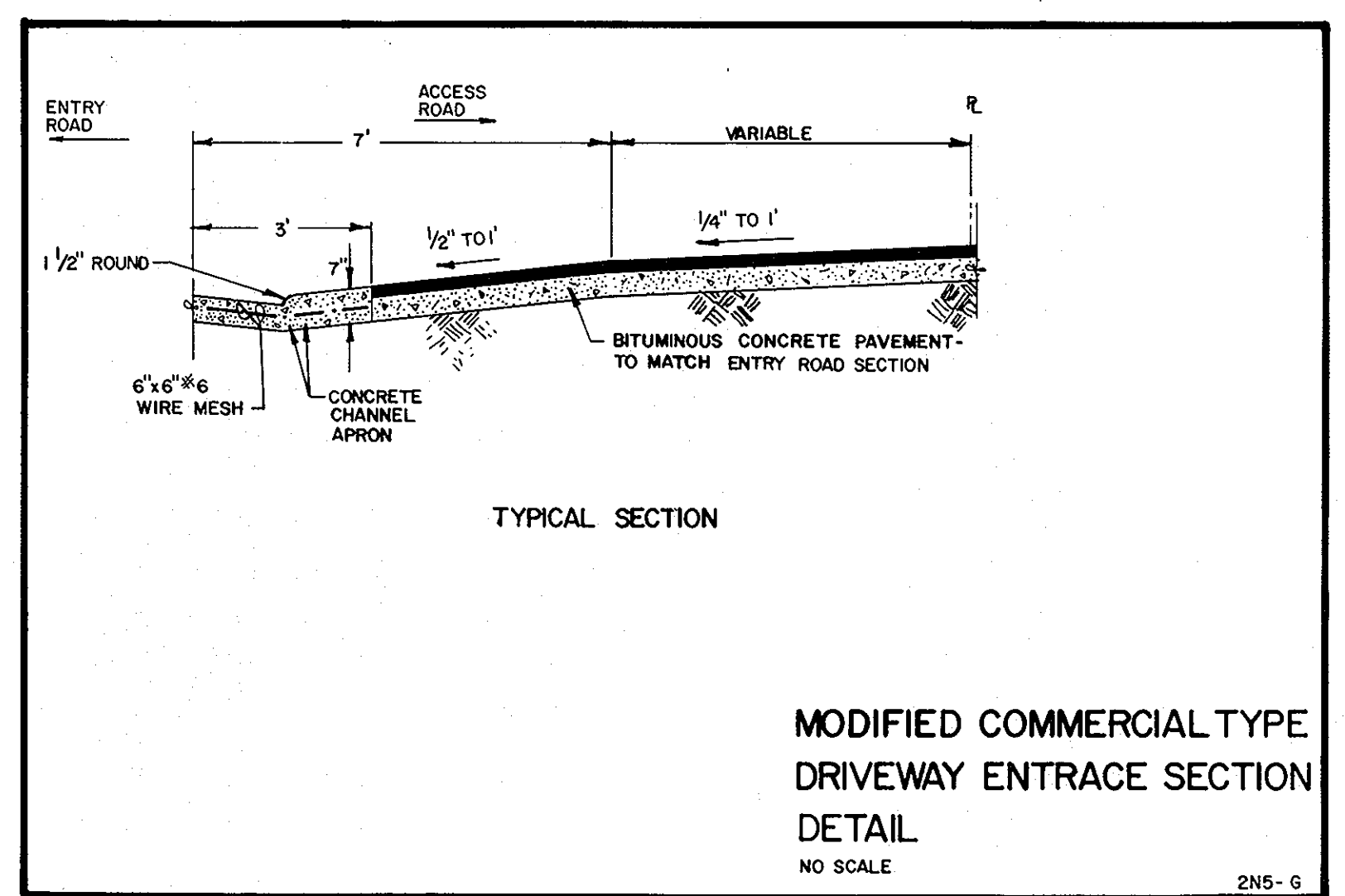
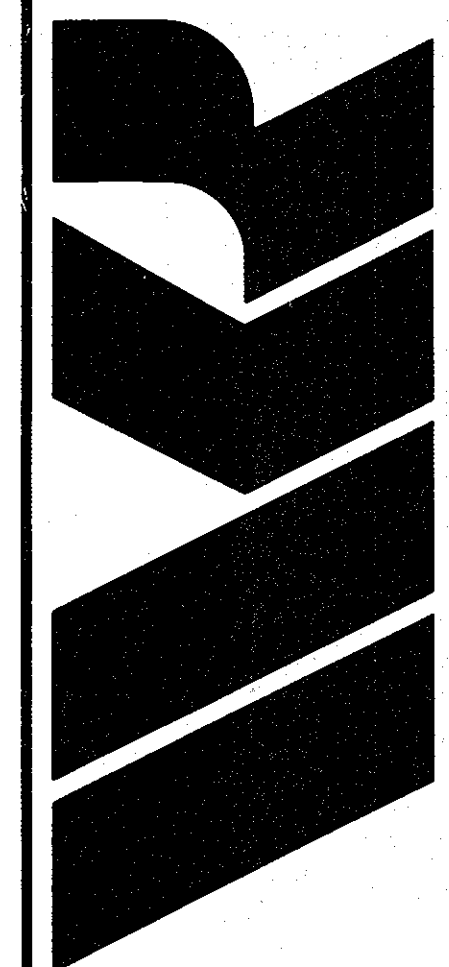
MISCELLANEOUS  
 SITE DETAILS

HOWARD COUNTY CENTRAL LIBRARY  
 HOWARD COUNTY MUNICIPAL GOVERNMENT

TOWN CENTER, COLUMBIA  
 SECTION 1, AREA 3, LOT 1, PARCEL 389  
 TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
 Howard County, Maryland



Date: DEC. 15, 1978  
 Scale: NONE  
 Project No: 77209  
 Sheet No: C-5 of 8



APPROVED: For public water and public sewerage systems, Howard County  
Department of Public Works.  
*Richard E. Breudenberg* 1/19/79  
Director Date

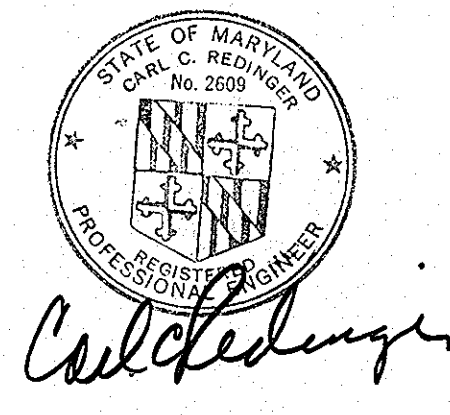
APPROVED: For public water and public sewerage systems, Howard County  
Health Department.  
*Jayman* 1-19-79  
County Health Officer Date

APPROVED: Howard County Office of Planning and Zoning.  
*Ronald Harris* 1-19-79  
Planning Director Date

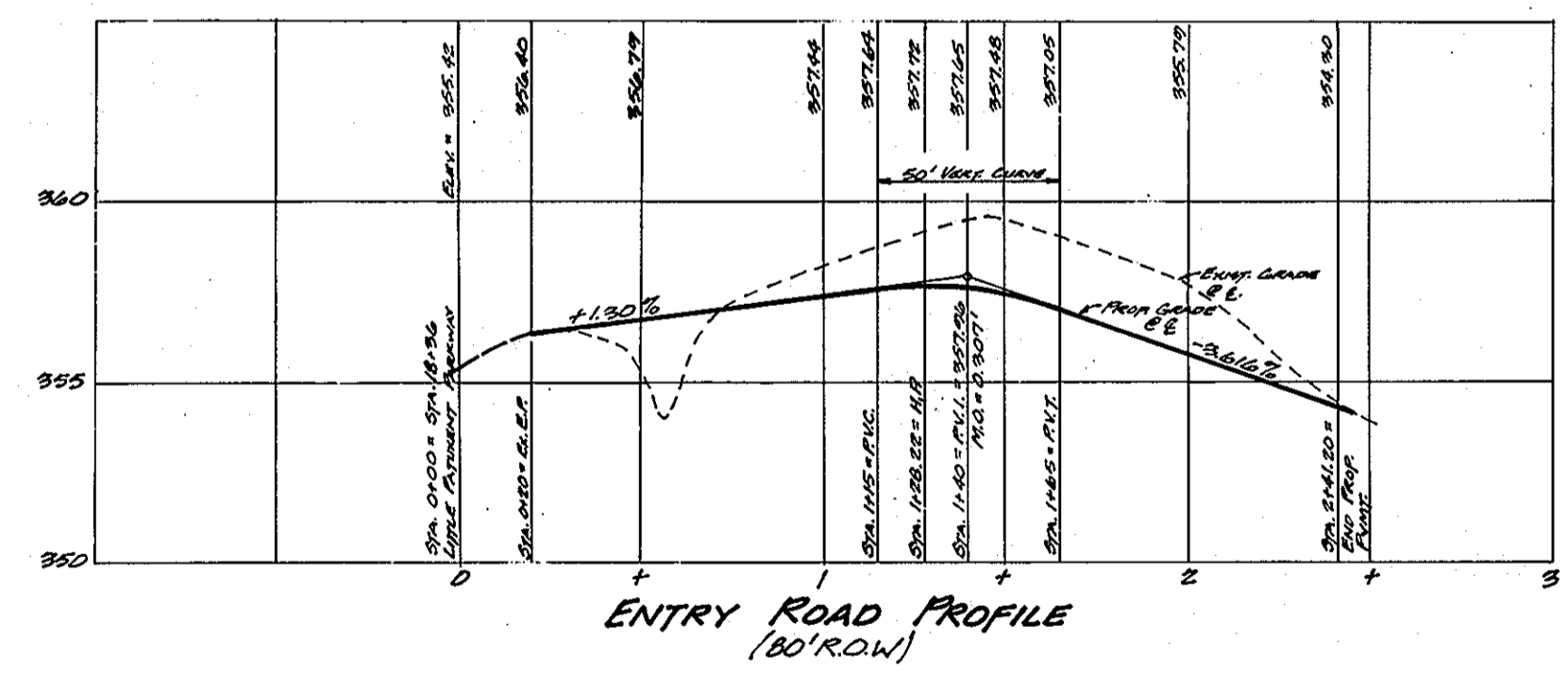
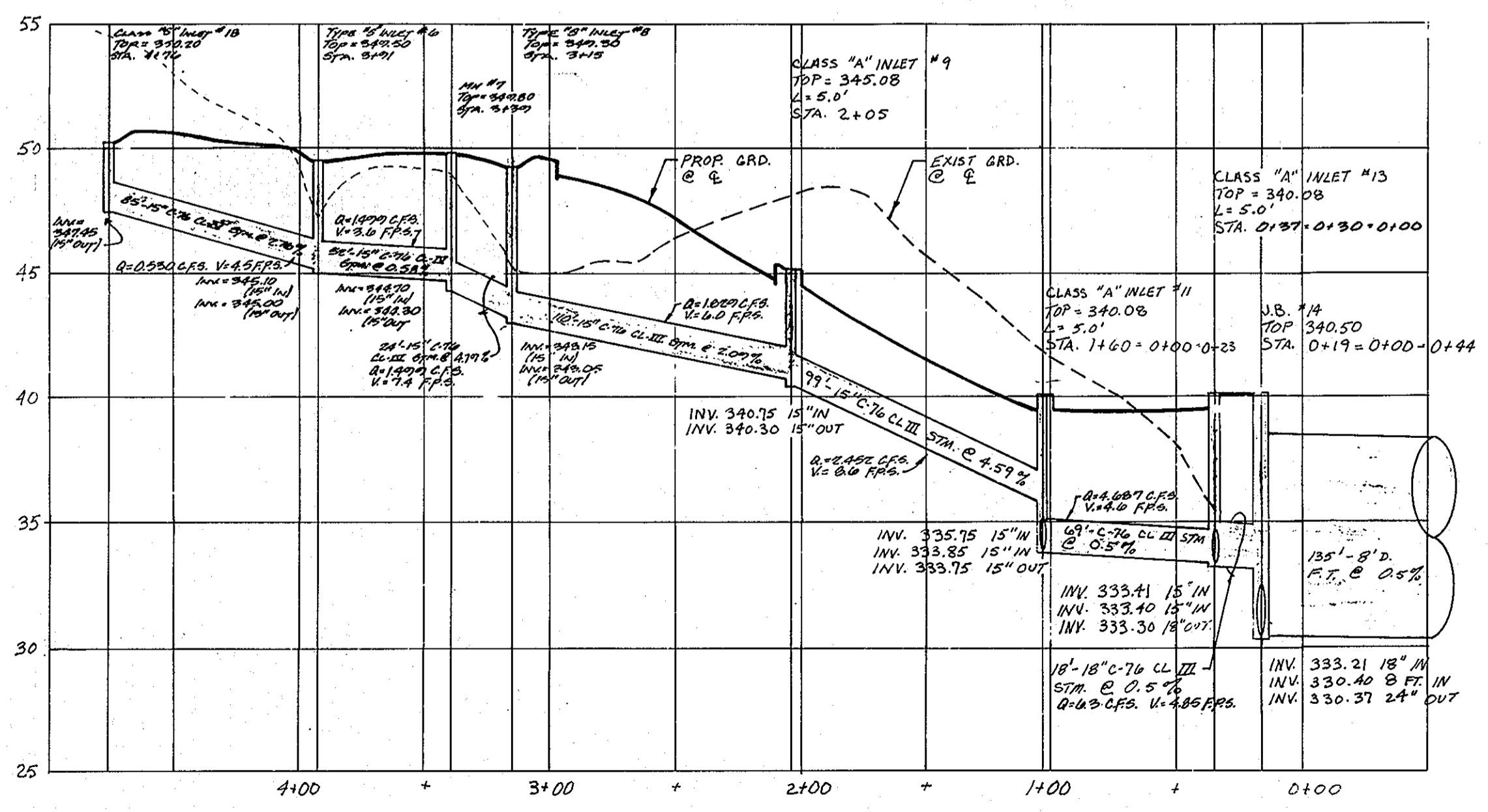
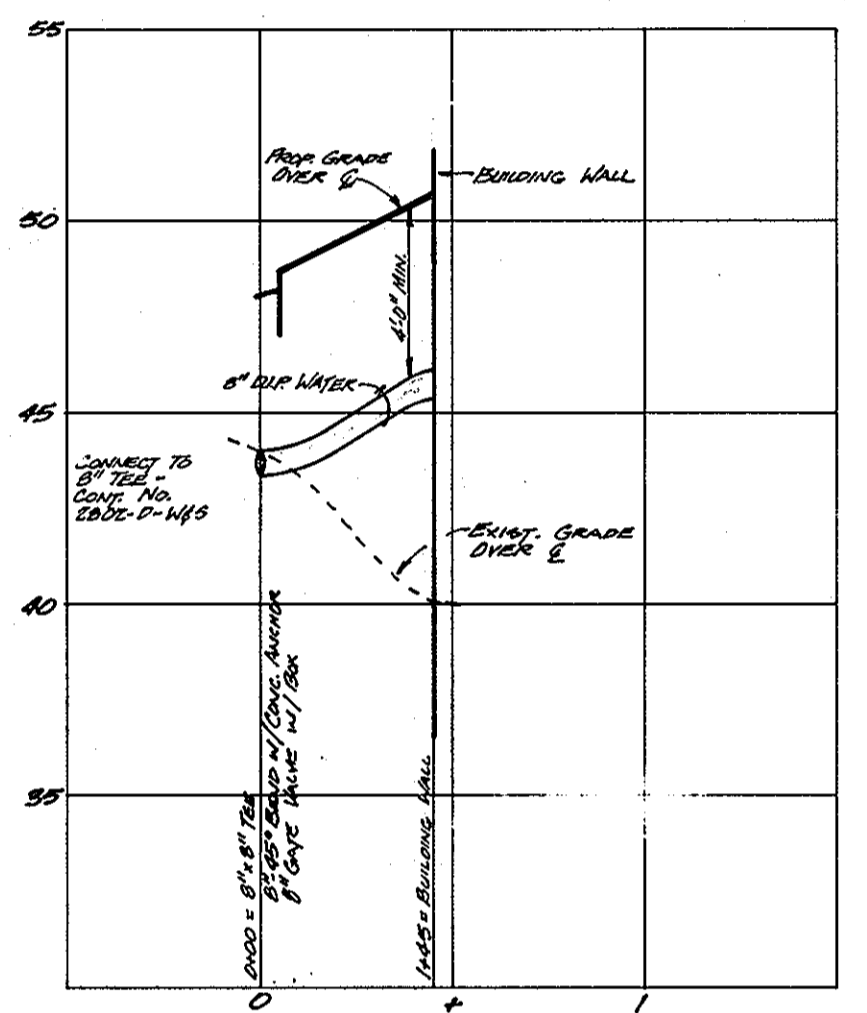
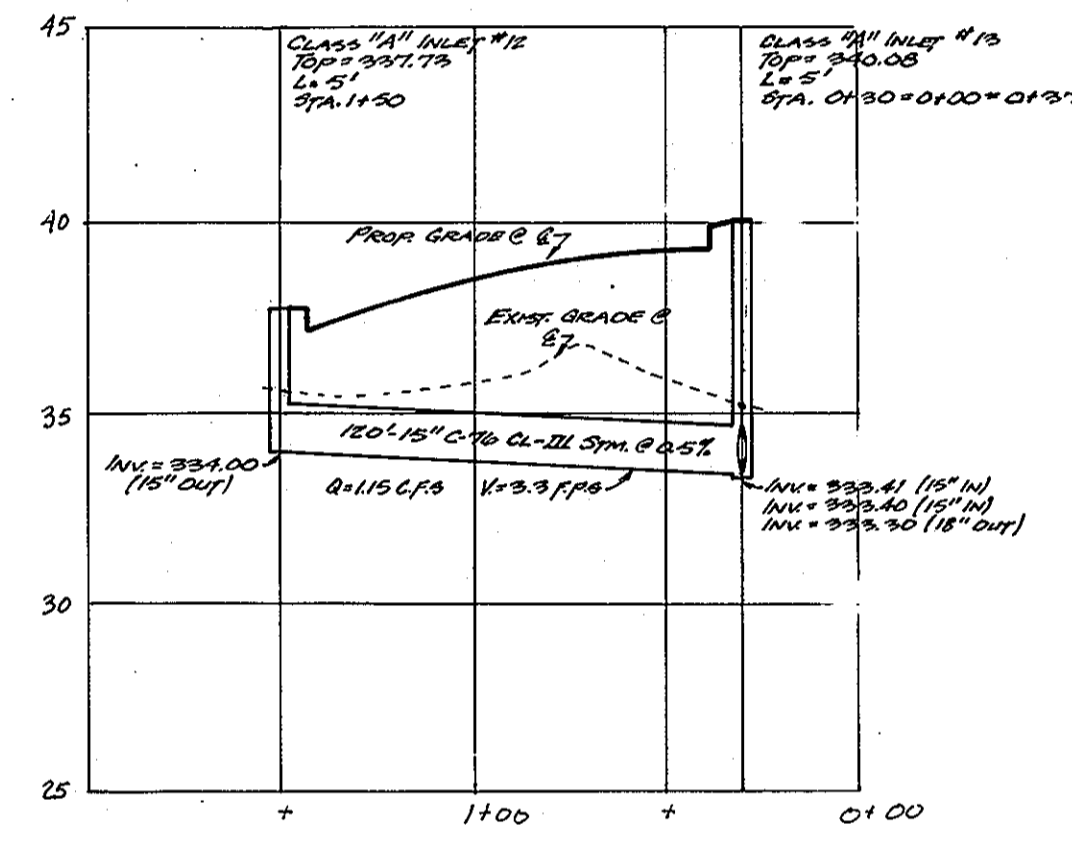
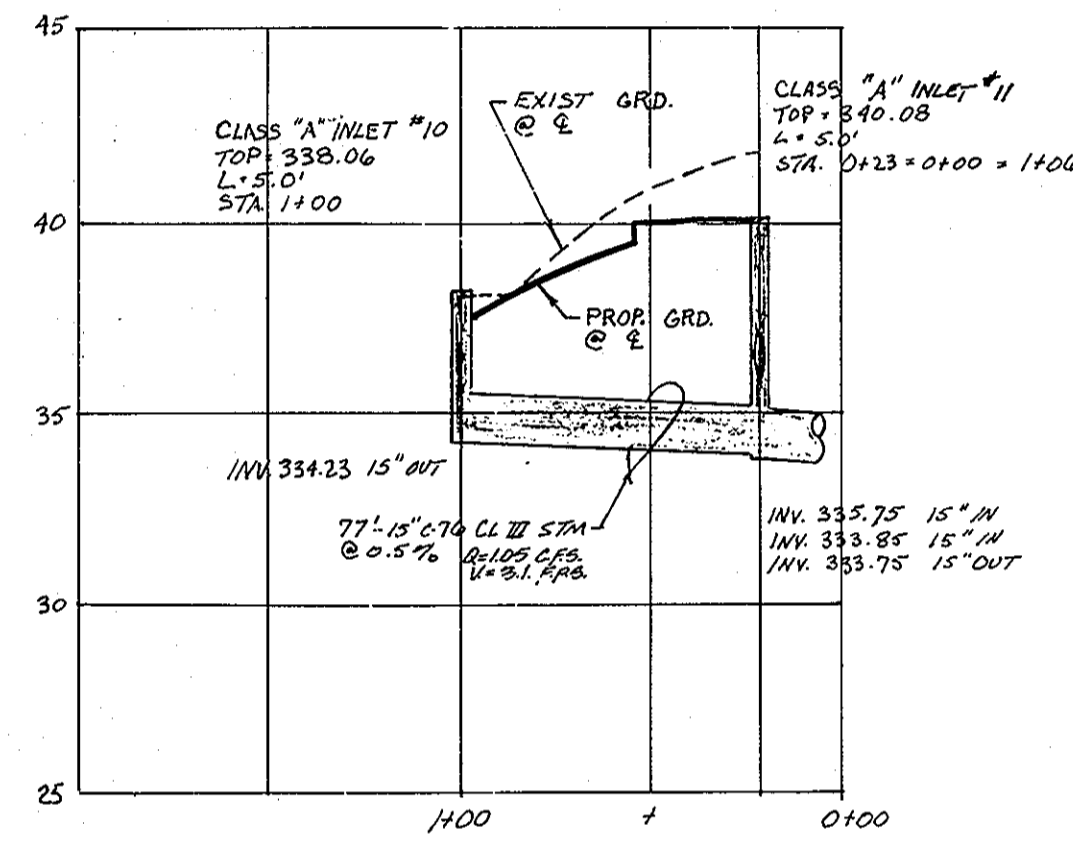
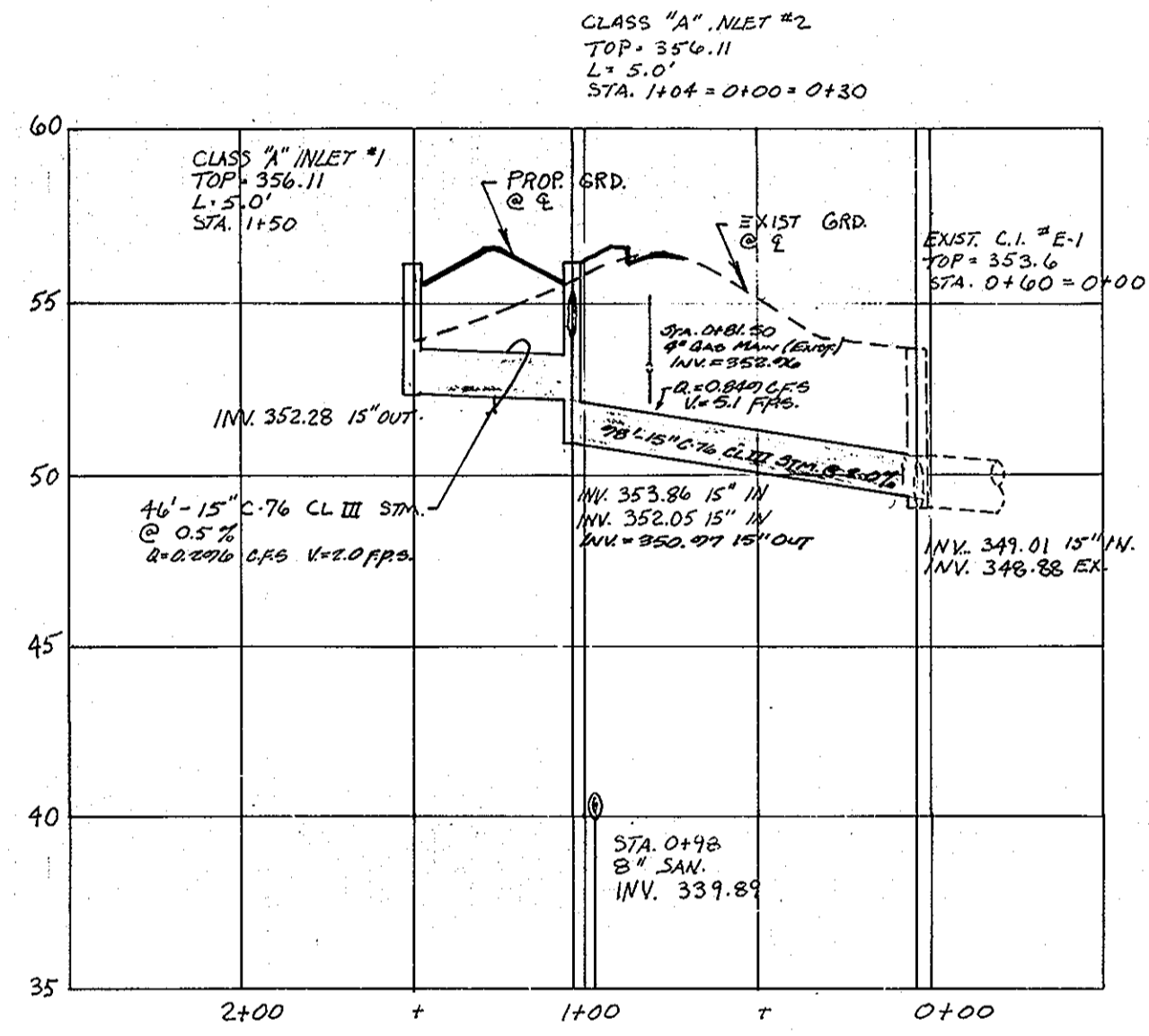
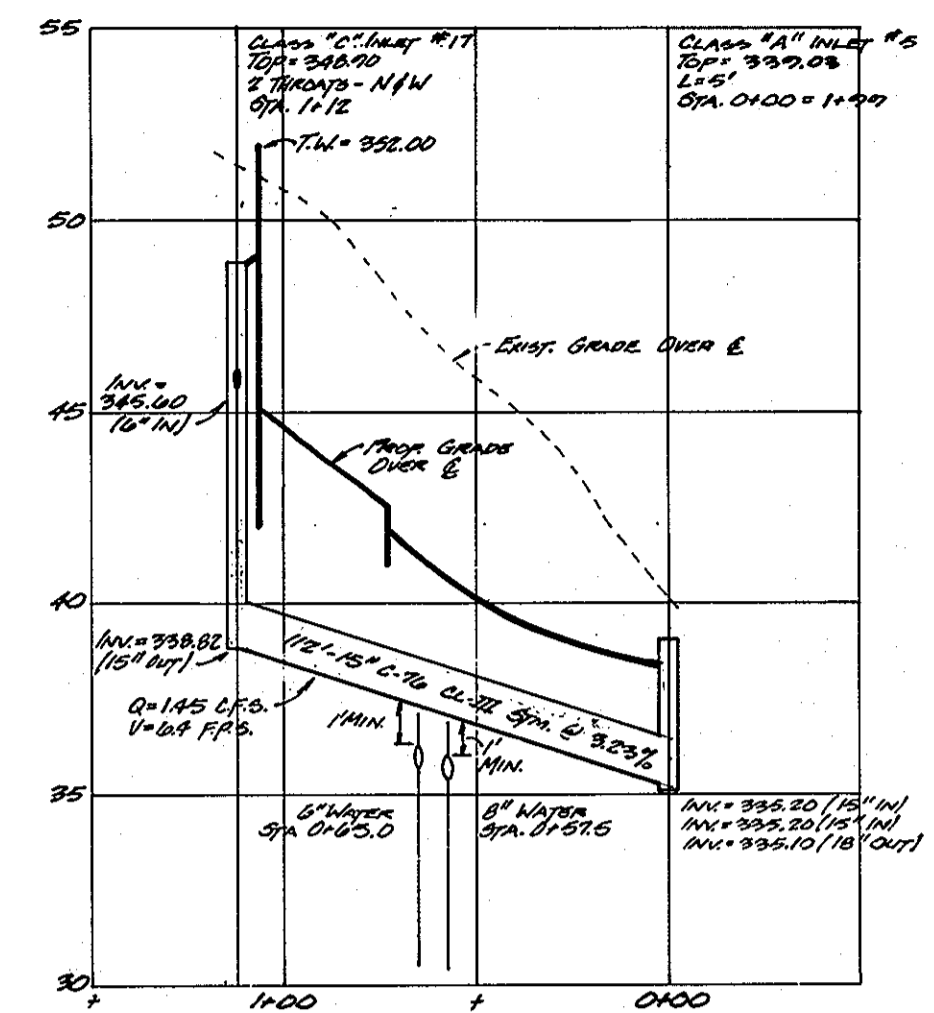
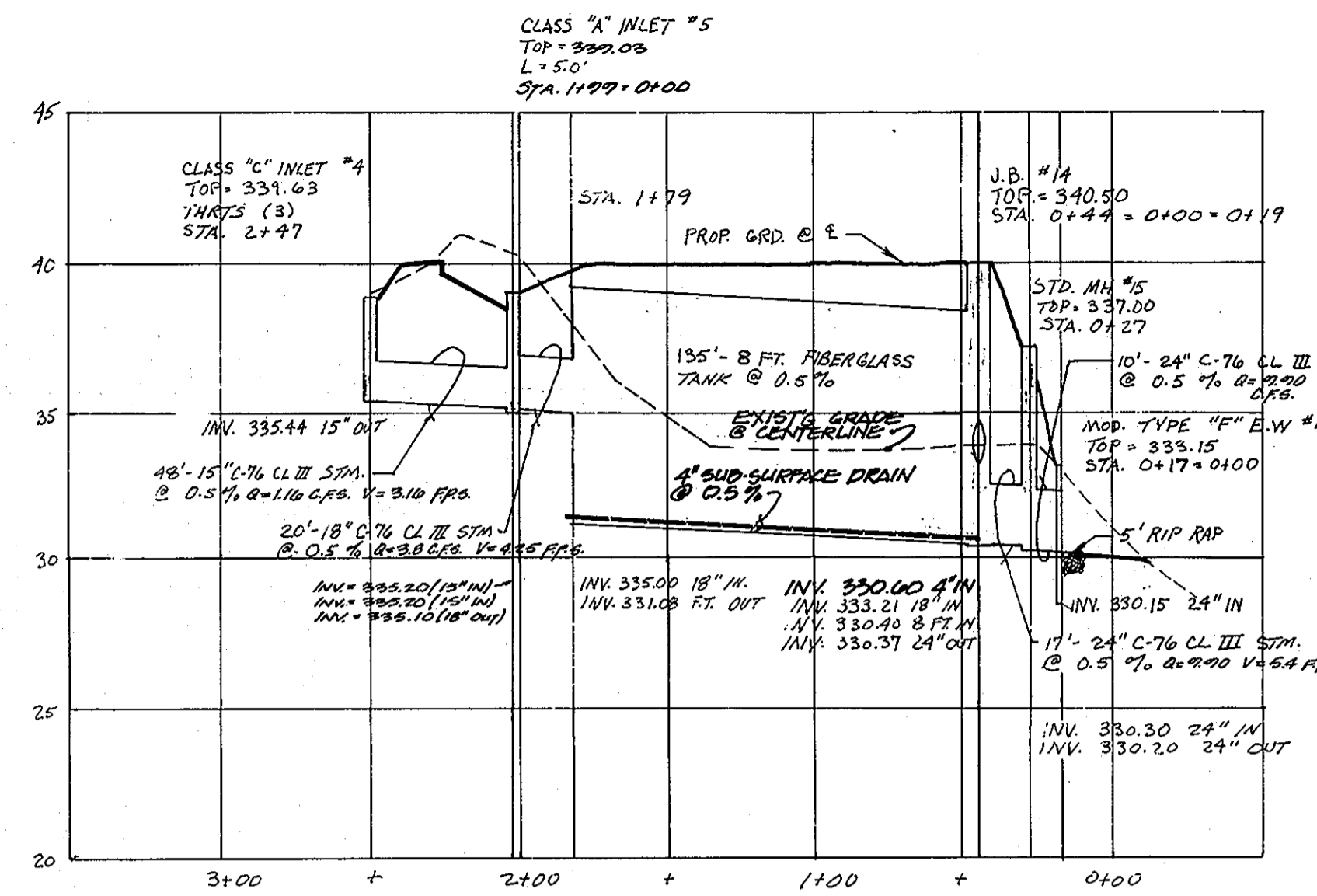
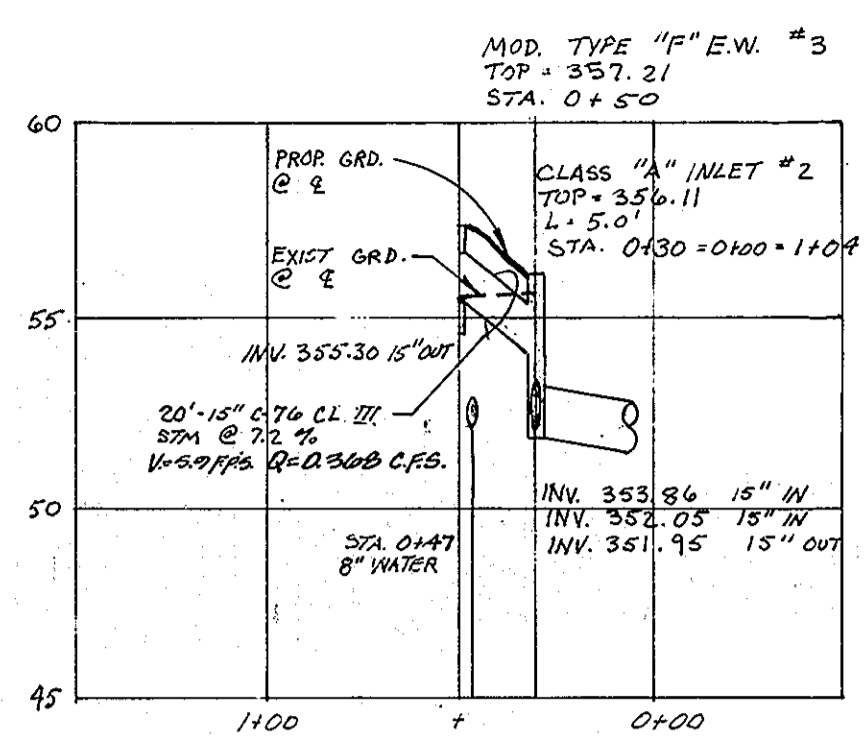
*John M. Mumford* 1-18-79  
Chief, Division of Land Development Date

APPROVED: For storm drainage systems, and roads: Howard County Department of  
Public Works.  
*Richard E. Breudenberg* 1/19/79  
Director Date

*W. O. L. Stet* 1-18-79  
Chief, Bureau of Engineering Date



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APPROVED: For public water and public sewerage systems, Howard County Health Department.  
*Joseph J. [Signature]* 1-19-79  
 Director Date

APPROVED: Howard County Office of Planning and Zoning.  
*Thomas G. [Signature]* 1-19-79  
 Planning Director Date

*Phillip M. [Signature]* 1-19-79  
 Chief, Division of Land Development Date

APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
*Richard E. [Signature]* 1/19/79  
 Director Date

*W. O. [Signature]* 1-18-79  
 Chief, Bureau of Engineering Date

APPROVED: For public water and public sewerage systems, Howard County Department of Public Works.  
*Richard E. [Signature]* 1/11/79  
 Director Date

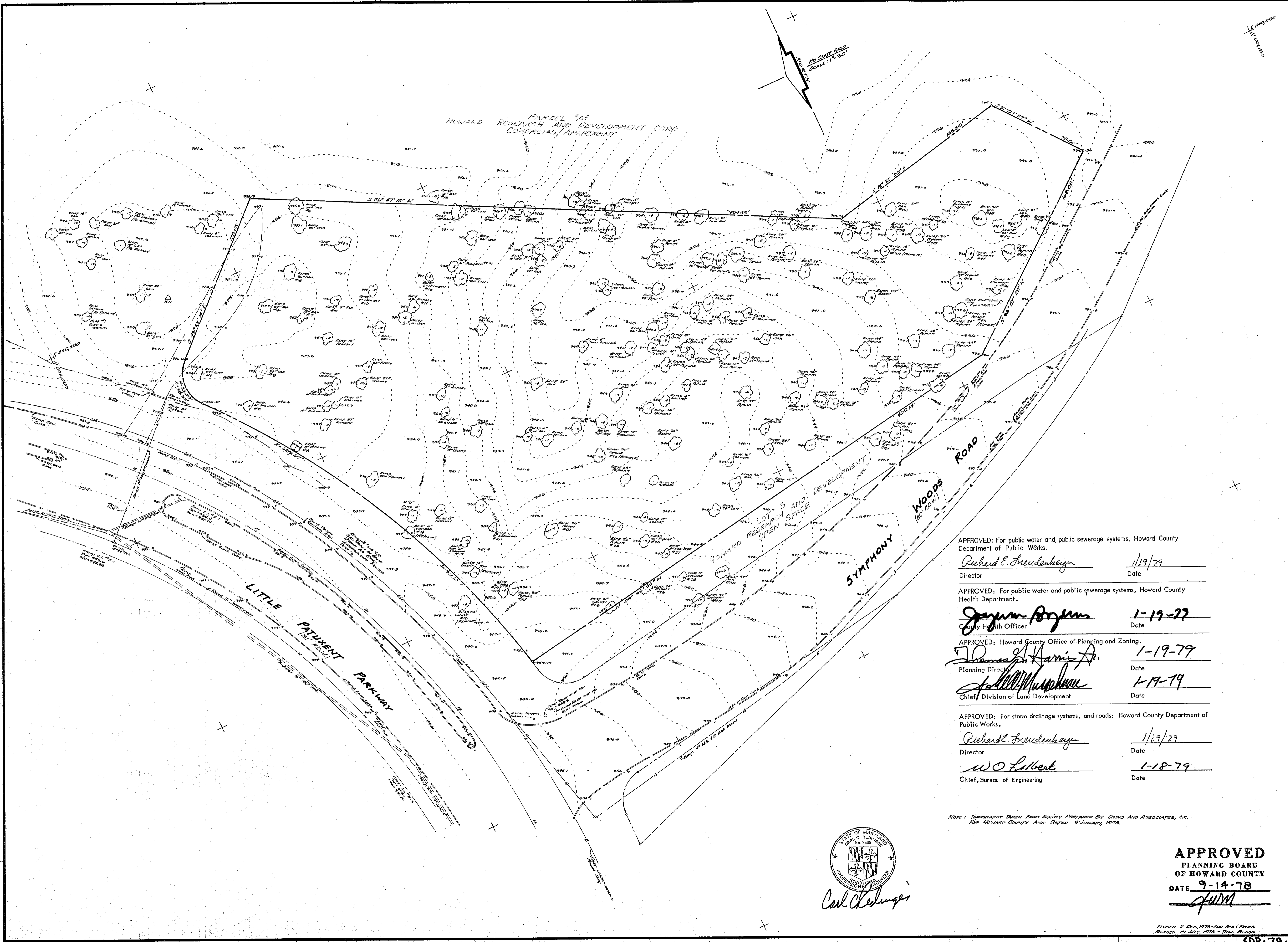
**APPROVED PLANNING BOARD OF HOWARD COUNTY**  
 DATE 9-14-78  
*Carl [Signature]*

STATE OF MARYLAND  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 2600

**PROFILES**  
 HOWARD COUNTY CENTRAL LIBRARY  
 HOWARD COUNTY MUNICIPAL GOVERNMENT  
 TOWN CENTER, COLUMBIA  
 SECTION 1, AREA 3, LOT 1, PARCEL 389  
 TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
 Howard County, Maryland  
 720 North Saint Asaph Street  
 Alexandria, Virginia 22314  
 Date: DEC. 15, 1978  
 Scale: 1" = 5' HORIZ.  
 1" = 5' VERT.  
 Project No: 77209  
 Sheet No: C-7 of 8  
 11

REVISED 15 JAN, 1979 - VELOCITIES 1.0%  
 REVISED 7 DEC, 1978 - STRUCTURES #18, #2, #17 #8  
 REVISED 8 NOV, 1978 - STRUCTURES #14, #5, #14 #10  
 REVISED 11 SEP, 1978 - STRUCTURES #11, #12, #14 #10  
 REVISED 19 JULY, 1978 - STR. #11, #12, #14 #12





PARCEL 1A  
HOWARD RESEARCH AND DEVELOPMENT CORP.  
COMMERCIAL APARTMENT

APPROVED: For public water and public sewerage systems, Howard County  
Department of Public Works.  
*Richard E. Brudenbary* 1/19/79  
Director Date

APPROVED: For public water and public sewerage systems, Howard County  
Health Department.  
*Jayum Boyum* 1-19-77  
County Health Officer Date

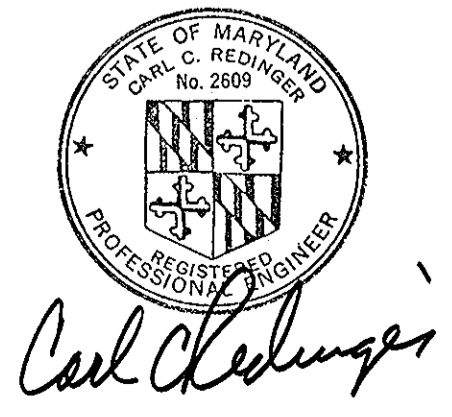
APPROVED: Howard County Office of Planning and Zoning.  
*Thomas H. Harris Jr.* 1-19-79  
Planning Director Date

*John M. Murrain* 1-19-79  
Chief, Division of Land Development Date

APPROVED: For storm drainage systems, and roads: Howard County Department of  
Public Works.  
*Richard E. Brudenbary* 1/19/79  
Director Date

*W O Lambert* 1-18-79  
Chief, Bureau of Engineering Date

NOTE: TOPOGRAPHY TAKEN FROM SURVEY PREPARED BY O'NEIL AND ASSOCIATES, INC.  
FOR HOWARD COUNTY AND DATED 9 JANUARY, 1978.



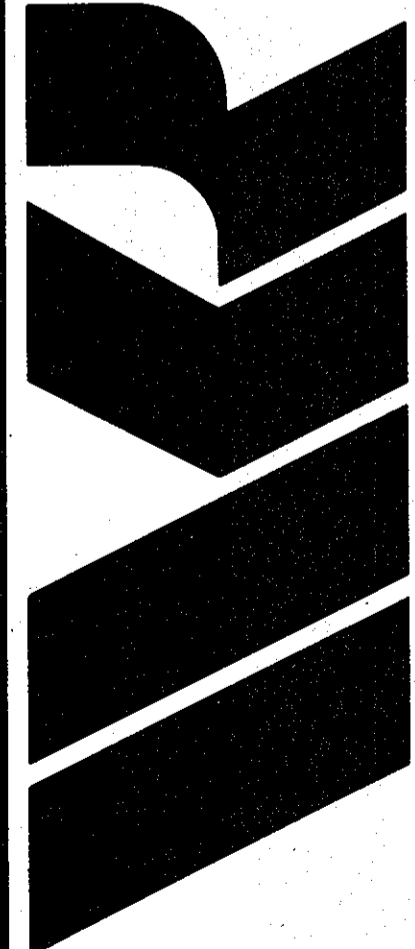
**APPROVED**  
PLANNING BOARD  
OF HOWARD COUNTY  
DATE 9-14-78  
*Jum*

**TOPOGRAPHIC SURVEY  
AND  
TREE LOCATION PLAN**

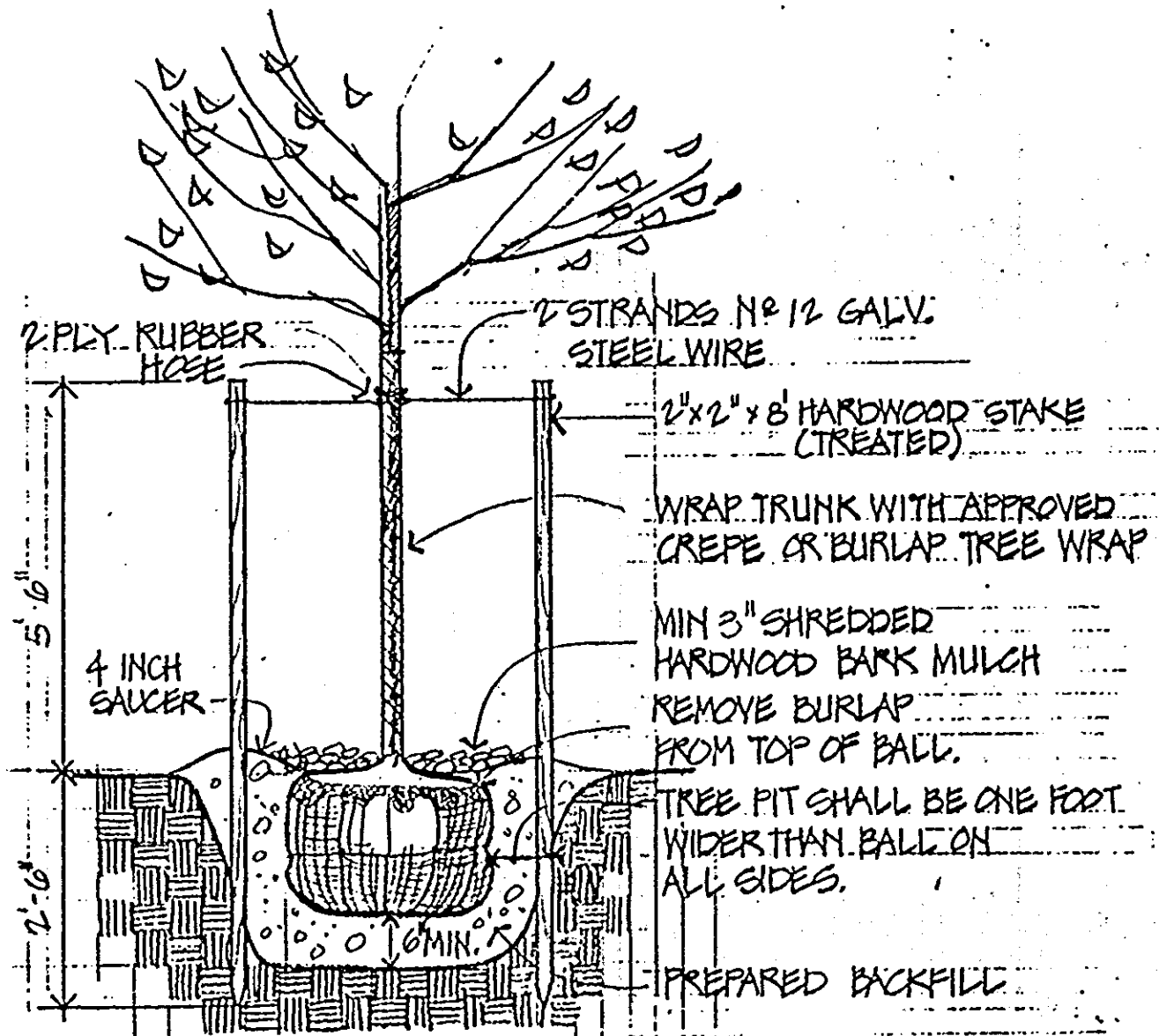
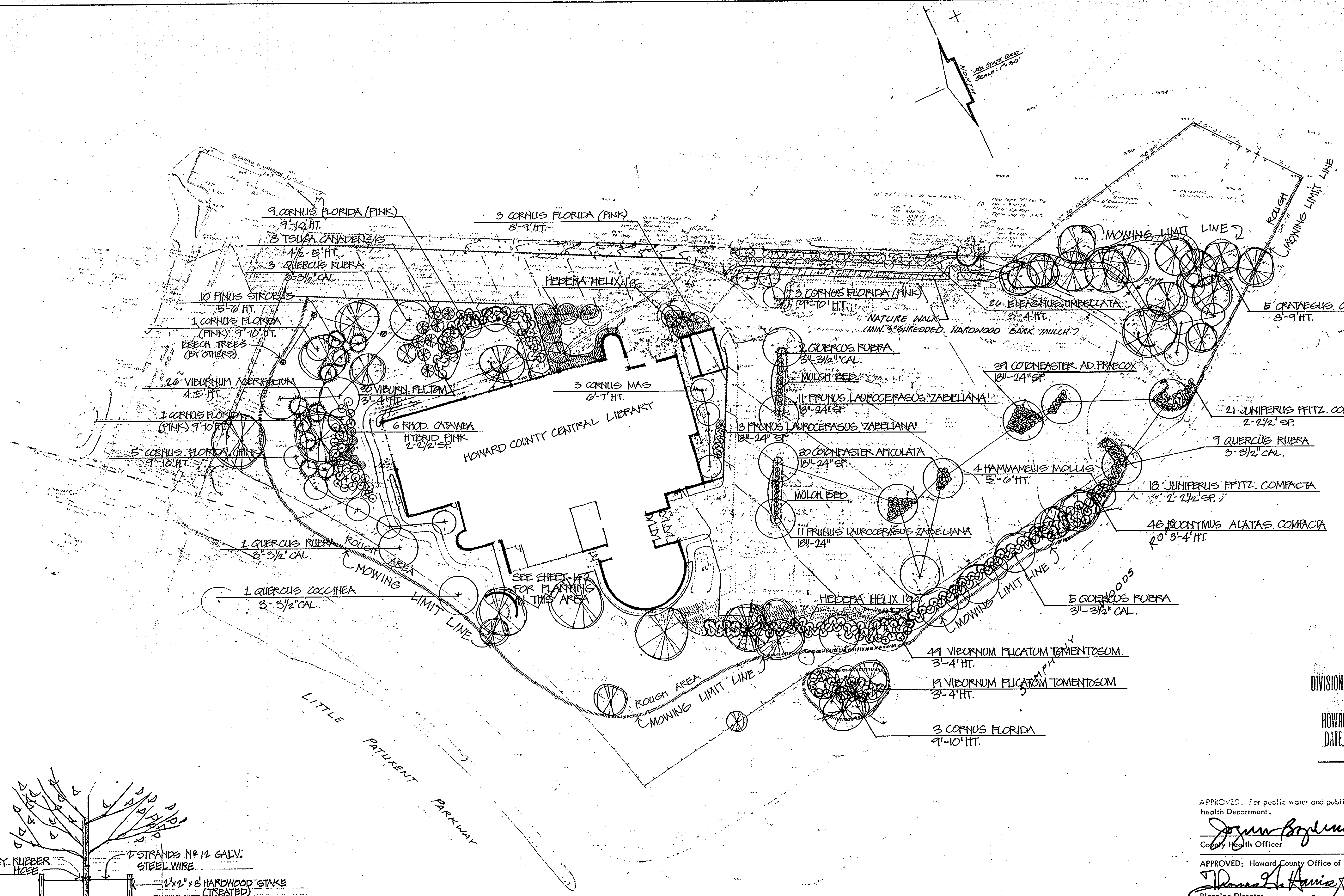
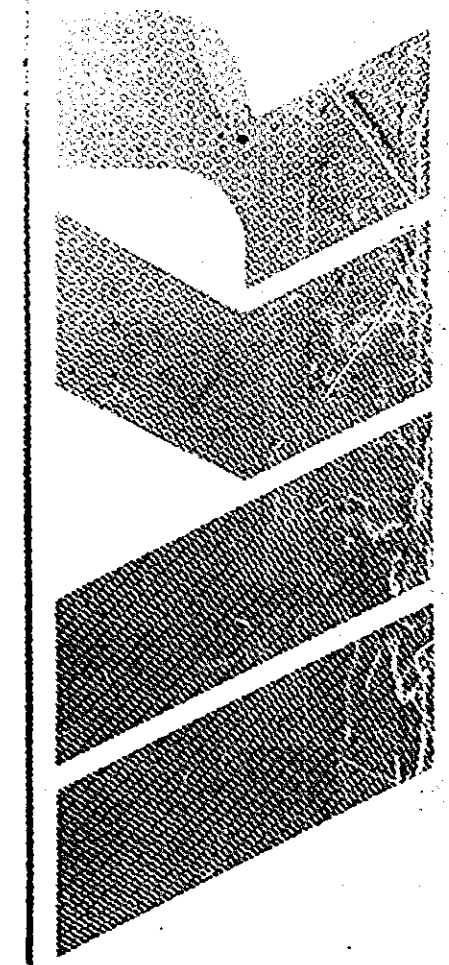
HOWARD COUNTY CENTRAL LIBRARY  
HOWARD COUNTY MUNICIPAL GOVERNMENT

TOWN CENTER, COLUMBIA  
SECTION 1, AREA 3, LOT 1, PARCEL 389  
TAX MAP NO. 36, 5th ELECTION DISTRICT, D.B. 27, PG. 64  
Howard County, Maryland

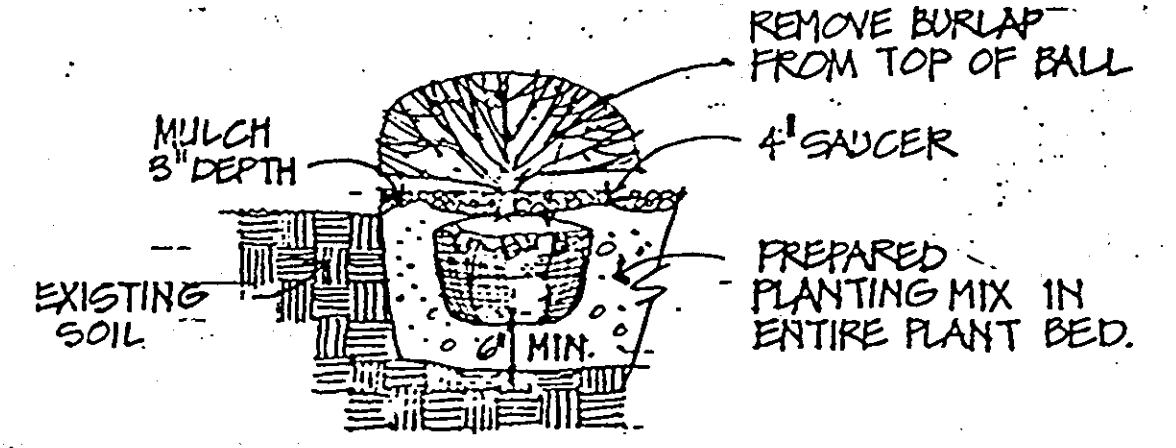
720 North Saint Asaph Street  
Alexandria, Virginia 22314



Date: DEC. 15, 1978  
Scale: 1" = 30'  
Project No: 77209  
Sheet No: C-8 of 8



TREE PLANTING DETAIL  
NO SCALE



SHRUB PLANTING DETAIL  
NO SCALE

APPROVED  
DIVISION OF LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE 1-3-80  
JMM

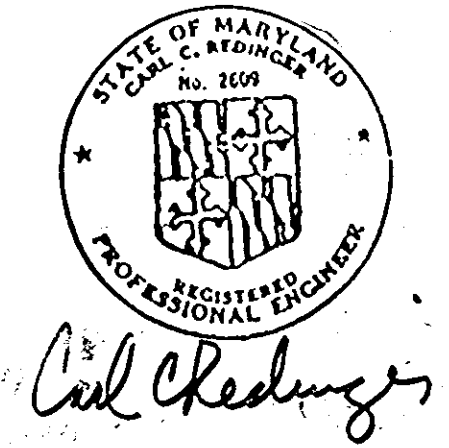
APPROVED: For public water and public sewerage systems, Howard County Health Department.  
*John Boylston*  
County Health Officer  
Date 1-7-80

APPROVED: Howard County Office of Planning and Zoning.  
*Thomas L. Harris*  
Planning Director  
Date 1-10-80

*Phillip M. ...*  
Chief, Division of Land Development  
Date 1-10-80

APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
*George F. Neumann*  
Director  
Date 1-7-80

*Wolfe*  
Chief, Bureau of Highway Engineering  
Date 1-7-80



REVISIONS FOR ... and meets technical requirements.

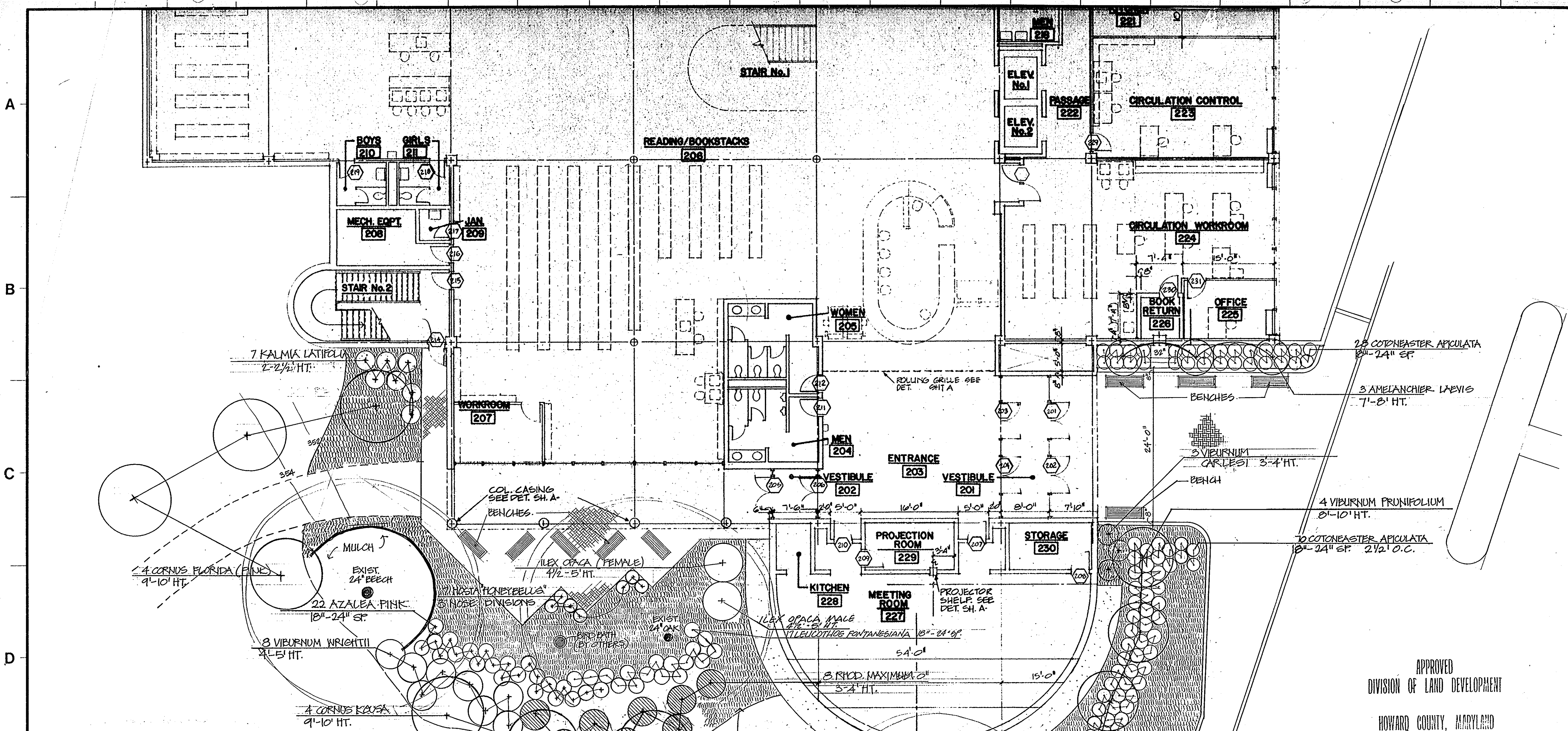
MAJOR REVISIONS 16 JULY '79  
REVISED 29 NOVEMBER '79

LANDSCAPE DEVELOPMENT PLAN

Howard County Central Library  
Columbia, Maryland

VKR Partnership  
Architecture Engineering Planning

TOWN CENTER, COLUMBIA  
SECTION 1, AREA 3, LOT 1, PARCEL 389  
TAX MAP NO. 36, 5TH ELECTION DISTRICT, B. 27, PG. 64  
COUNTY PROJECT NO. L-6-0002



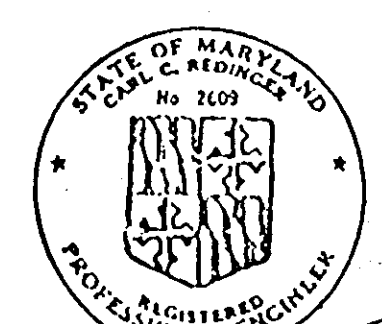
PLANT LIST

	QUAN.	BOTANICAL NAME	COMMON NAME	MIN. HT.	MIN. SP.	MIN. CAL.	ROOT	
TREES	3	AMELANCHIER LAEVIS	SERVICEBERRY	7-8'	6'		B4B	
	3	CORNUS FLORIDA	FLOWERING DOGWOOD (WHITE)	9-10'	6'		B4B	
	26	CORNUS FLORIDA	FLOWERING DOGWOOD (PINK)	9-10'	6'		B4B	
	4	CORNUS KOUA	CHINESE DOGWOOD	9-10'	6'		B4B	
	3	CORNUS MAS	CORNELIAN CHERRY	6-7'	6'		B4B	
	5	CRATAEGUS OXYCANTHA EUFROEA	CRIMSON CLOUD HAWTHORNE	8-9'	6'		B4B	
	10	PINUS STROBUS	EASTERN WHITE PINE	5-6'			B4B	
	1	QUERCUS COCCINEA	SCARLET OAK			3'-3 1/2"	B4B	
	20	QUERCUS RUBRA	NORTHERN RED OAK				B4B	
	8	TSUGA CANADENSIS	CANADIAN HEMLOCK	4 1/2'-5'	3'		B4B	
	4	VIBURNUM PRUNIFOLIUM	BLACK HAW VIBURNUM (TREE FORM)	8'-10' HT.			B4B	
	22	AZALEA - PINK - EVERGREEN				18'-24"	B4B	
	29	COTONEASTER ADPRESSA FRAXCOX	EARLY COTONEASTER			18'-24"	2 GAL. CAN	
	123	COTONEASTER APICULATA	CRANBERRY COTONEASTER			18'-24"	2 GAL. CAN	
	SHRUBS	26	ELEAGNUS UMBELLATA	AUTUMN ELEANUS	3'-4'			B4B
40		EUCONYMIUS ALATUS COMPACTA	DWARF WINGED EUCONYMIUS	3'-4'			B4B	
4		HAMAMELIS MOLLIS	CHINESE WITCH HAZEL	5'-6'			B4B	
7		HOSTA 'HONEYBELLS'	PLANTAIN LILY				SHOGE BEEB	
29		JUNIPERUS FITZ. COMPACTA	COMPACT FITZGER JUNIPER	2'-2 1/2'			B4B	
17		LEUCOTHOE FONTANESIANA	DROOPING LEUCOTHOE			18'-24"	B4B/CONT.	
35		PRUNUS LAURO-SCHIP ZABEL	ZABEL CHERRY LAUREL			18'-24"	B4B	
6		RHOD. CANADIENSE HYBRID (PINK)		2'-2 1/2'	2 1/2'		B4B	
3		RHODODENDRON MAXIMUM		3'-4'	3'		B4B	
26		VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM	4'-5'			B4B	
3		VIBURNUM CARLESI	FRAGRANT VIBURNUM	3'-4'	3'		B4B	
104		VIBURNUM PUCATUM TOMENTOSUM	DOUBLEFILE VIBURNUM	3'-4'	3'		B4B	
8		VIBURNUM WRIGHTII	WRIGHT'S VIBURNUM	4'-5'	3'		B4B	
GROUND COVER		AS NEC.	HEDERA HELIX	ENGLISH IVY				R.C.
		AS NEC.	PACHYSANDRA TERMINALIS	JAPANESE SPURGE				R.C.
	2	ILEX OPACA (FEMALE, MALE)	AMERICAN HOLLY	4 1/2'-5'	3		B4B	
7	KALMIA LATIFOLIA	MOUNTAIN LAUREL				B4B		

NOTE: THIS PLANT LIST IS FOR CONTRACTORS CONVENIENCE ONLY. CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLANTS SHOWN ON DWGS.

APPROVED  
DIVISION OF LAND DEVELOPMENT  
HOWARD COUNTY, MARYLAND  
DATE 1-3-80  
*[Signature]*

APPROVED: For positive water and public sewerage systems, Howard County.  
Health Officer: *[Signature]* 1-9-80  
County Health Officer Date  
APPROVED: Howard County Office of Planning and Zoning.  
Planning Director: *[Signature]* 1-10-80  
Date  
Chief, Division of Land Development: *[Signature]* 1-10-80  
Date  
APPROVED: For storm drainage systems, and roads: Howard County Department of Public Works.  
Director: *[Signature]* 1-7-80  
Date  
Chief, Bureau of Highways ENGINEERING: *[Signature]* 1-7-80  
Date  
REVIEWED FOR: *[Signature]* and meets technical requirements.



Date: 18 July 79  
Scale: 1/8" = 1'-0"  
Project No: 77209  
SH. 10 & 11  
Sheet No: L-2

REVISED 29 NOVEMBER 79  
MAJOR REVISIONS 16 JULY 79