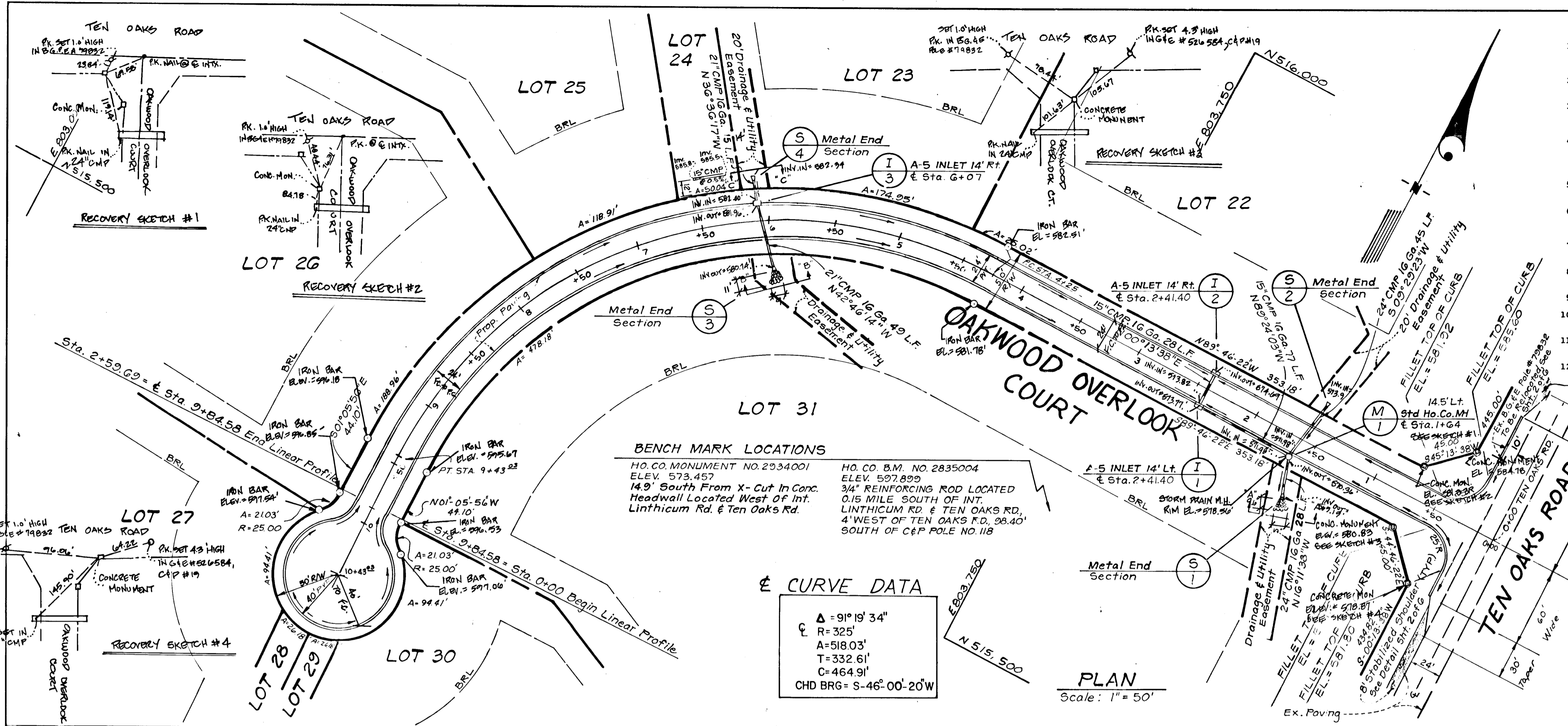
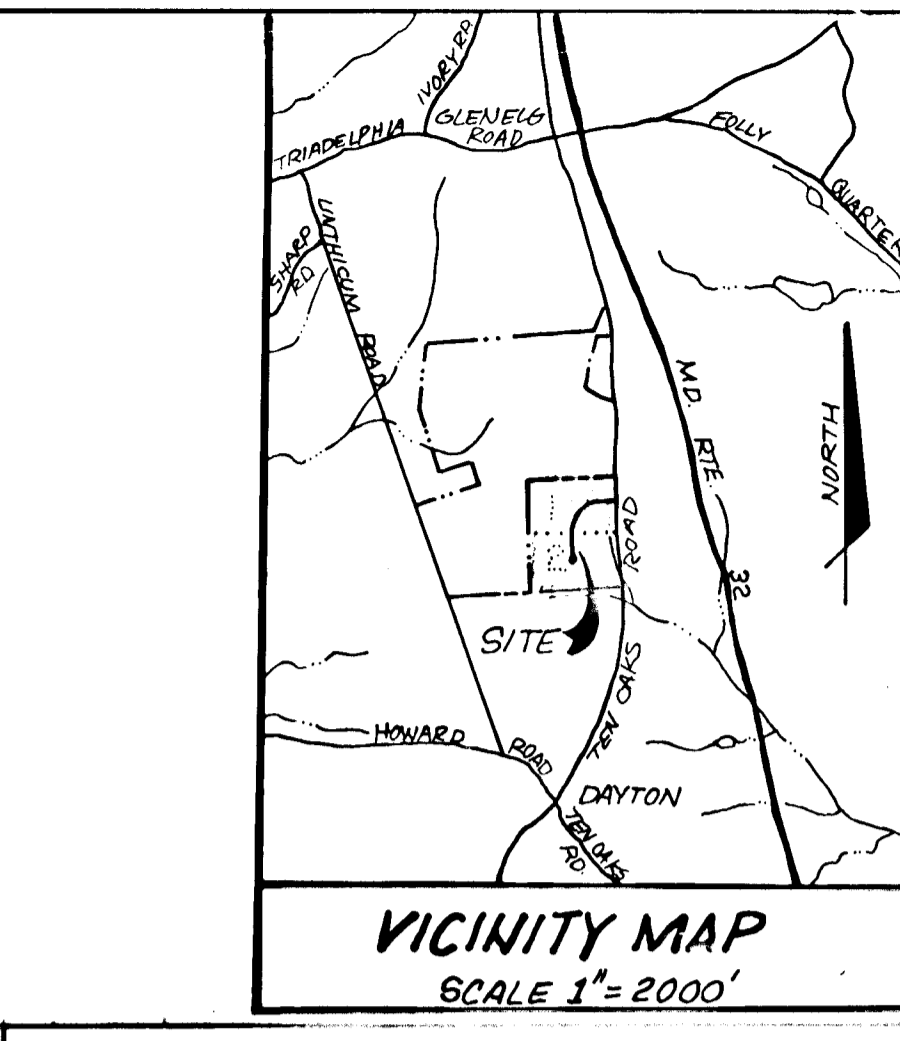


PLAN	REVISIONS
NO. 1	AS SHOWN
NO. 2	AS SHOWN
NO. 3	AS SHOWN
NO. 4	AS SHOWN
NO. 5	AS SHOWN
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NO. 45	AS SHOWN
NO. 46	AS SHOWN
NO. 47	AS SHOWN
NO. 48	AS SHOWN
NO. 49	AS SHOWN
NO. 50	AS SHOWN



- GENERAL NOTES**
- ALL STORM DRAIN & PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DETAILS AND SPECIFICATIONS OF HOWARD CO. & MD S.H.A.
 - TYPES OF STORM DRAIN STRUCTURES REFER TO THE STANDARD DETAILS OF HOWARD COUNTY & MD S.H.A.
 - TRENCH COMPACTION FOR STORM DRAINS WITHIN ROADS OR STREET RIGHT OF WAY LIMITS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD CO. ROAD CODE.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS, BY HAND, AT ALL UTILITY CROSSINGS, WELL IN ADVANCE OF CONSTRUCTION.
 - ALL UTILITY COMPANIES SHALL BE NOTIFIED 24 HRS. IN ADVANCE OF CONSTRUCTION, AT 1-800-257-7777.
 - ALL TRAFFIC CONTROL SERVICES, PARKING AND SIGNING TO BE DONE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", 1978 EDITION.
 - SAG AND CREST VERTICAL CURVES WERE DESIGNED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME III, ROADS & BRIDGES.
 - MINIMUM COVER OF 12" SHALL BE PROVIDED OVER STORM DRAIN PIPES ON ALL AREAS NOT BEING FINAL GRADED BY THESE PLANS.
 - DESIGN SPEED: 30 M.P.H.
 - ALL HORIZONTAL AND VERTICAL CONTROLS BASED ON MARYLAND STATE DATUM.
 - EXISTING TOPOGRAPHY SHOWN WAS TAKEN FROM HOWARD COUNTY 200' SCALE TOPO, AND
 - REFER TO SHEET 3 OF 6 FOR EROSION AND SEDIMENT CONTROL.
- STABILIZED SHOULDER
 SEE DETAIL SHT 2 OF 6.



OWNER/DEVELOPER
KENNARD WARFIELD, JR.
 14663 Triadelphia Road
 Glenelg, Md. 21737
 (301) 489-4878

HORIZONTAL AND VERTICAL CONTROL SHOWN HEREON IS BASED ON THE FOLLOWING HOWARD COUNTY CONTROL STATION NOS.: 2934001 & 2835004.

1-8-87 L.R. STATION REVISION

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: _____ DATE: _____

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John W. Muehlbauer 12-3-86
 CHIEF PLANNING & ZONING ADMINISTRATOR

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

John E. C. Patmore 12-3-86
 CHIEF BUREAU OF ENGINEERING

ROAD PLAN AND PROFILE
OAKWOOD OVERLOOK COURT
 LOTS 22 THRU 31
OAKWOOD OVERLOOK
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

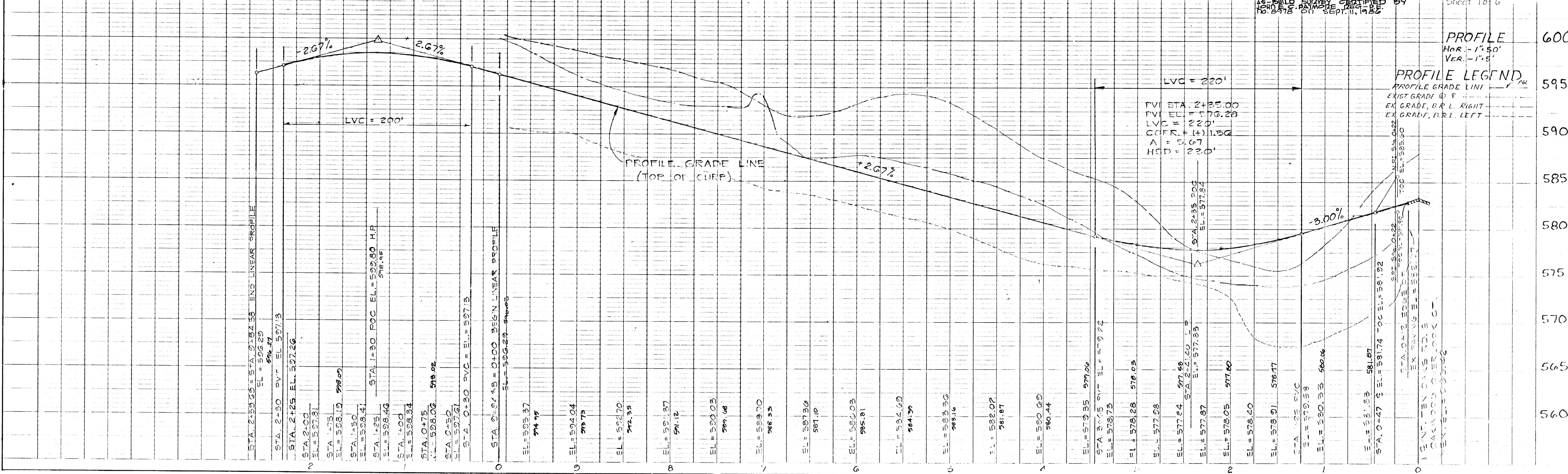


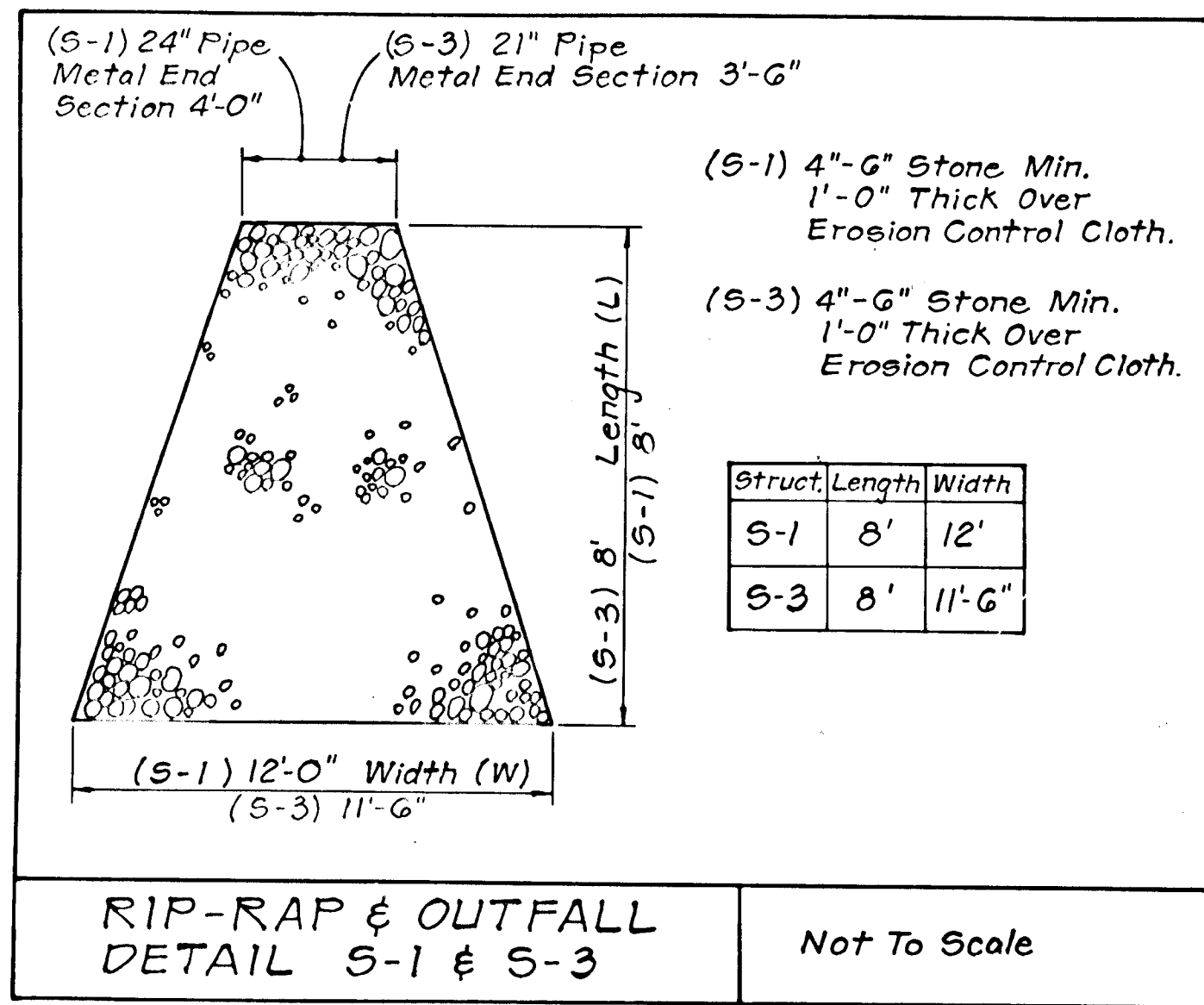
KIDD CONSULTANTS, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 1100 WEST STREET • SUITE 100 / LAUREL, MD 20707
 (301) 251-1801 / 789-8986 (FAX)

John E. C. Patmore Md. PF No. 8978

DATE: Sept. 1, 1986 SCALE: As Shown
 KCI JOB # 16-B-121

Sheet 1 of 6





NOTES:

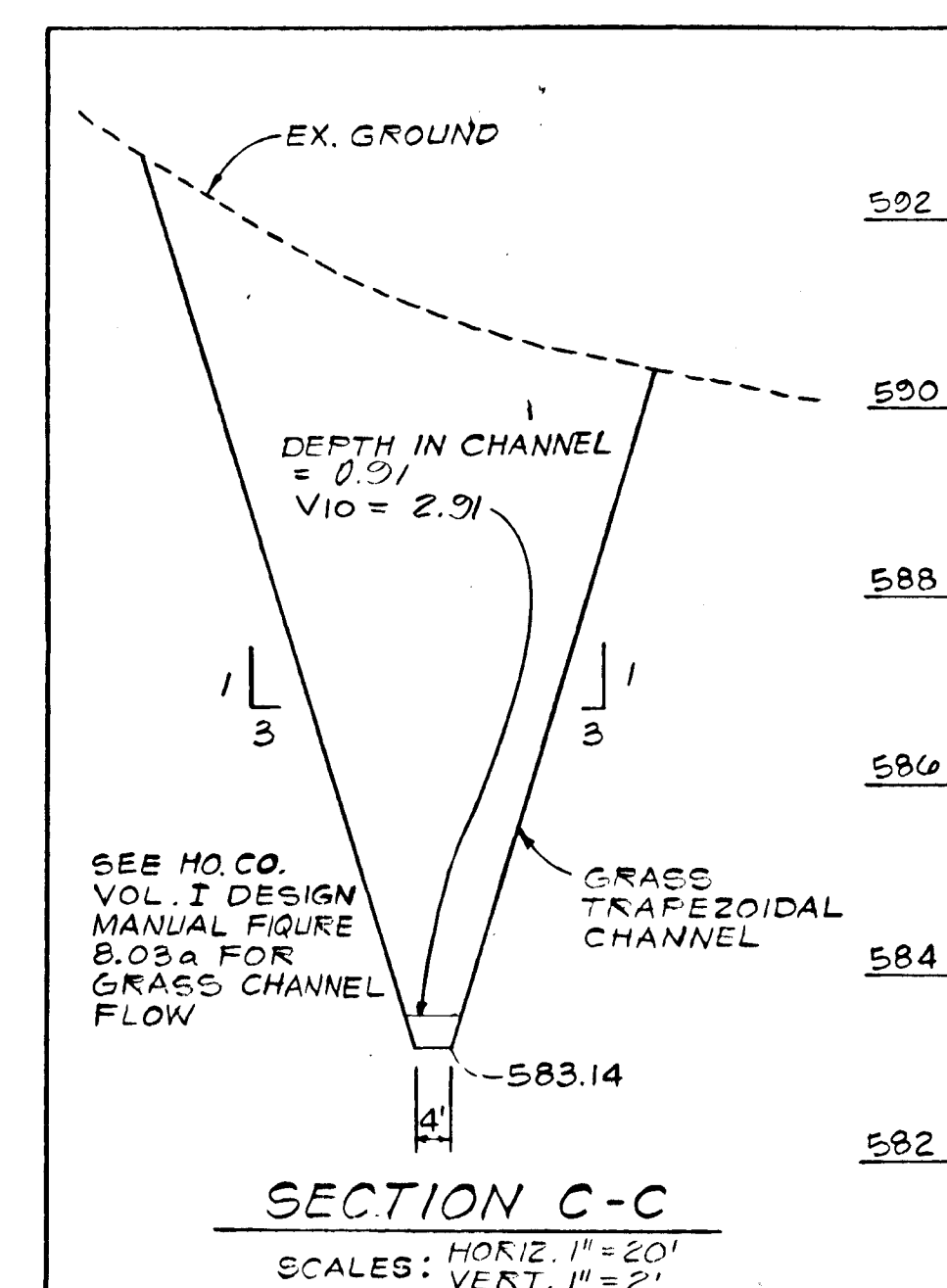
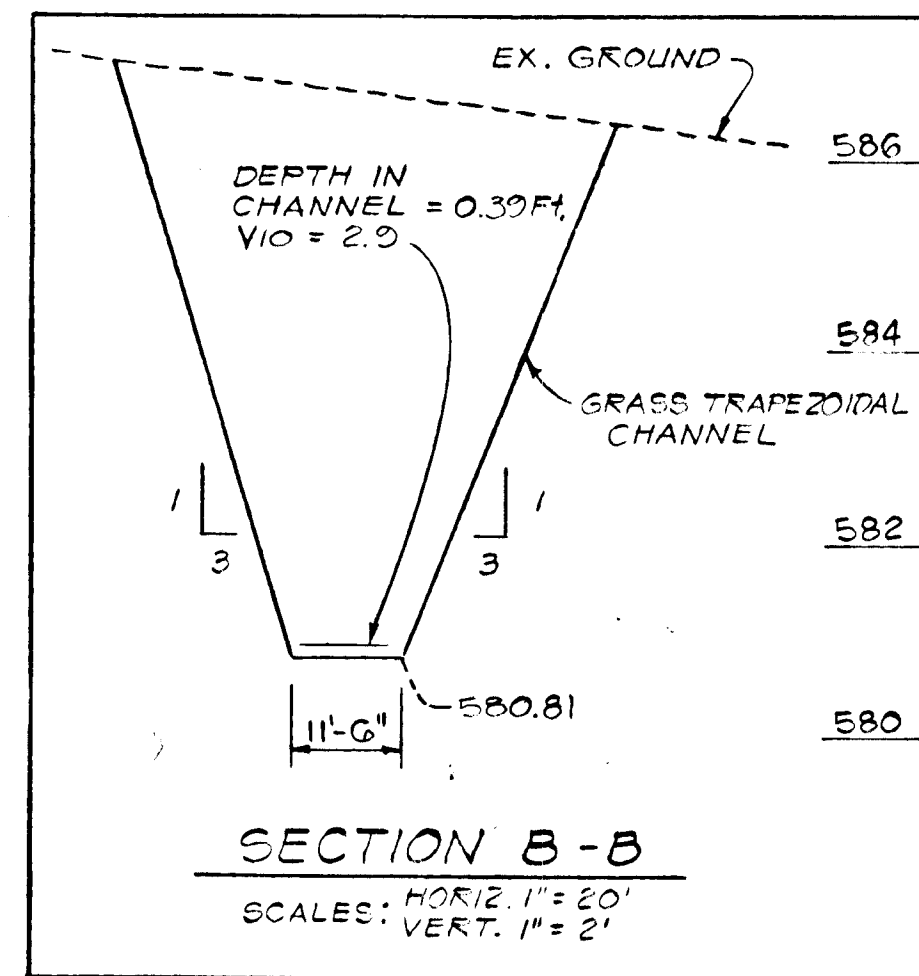
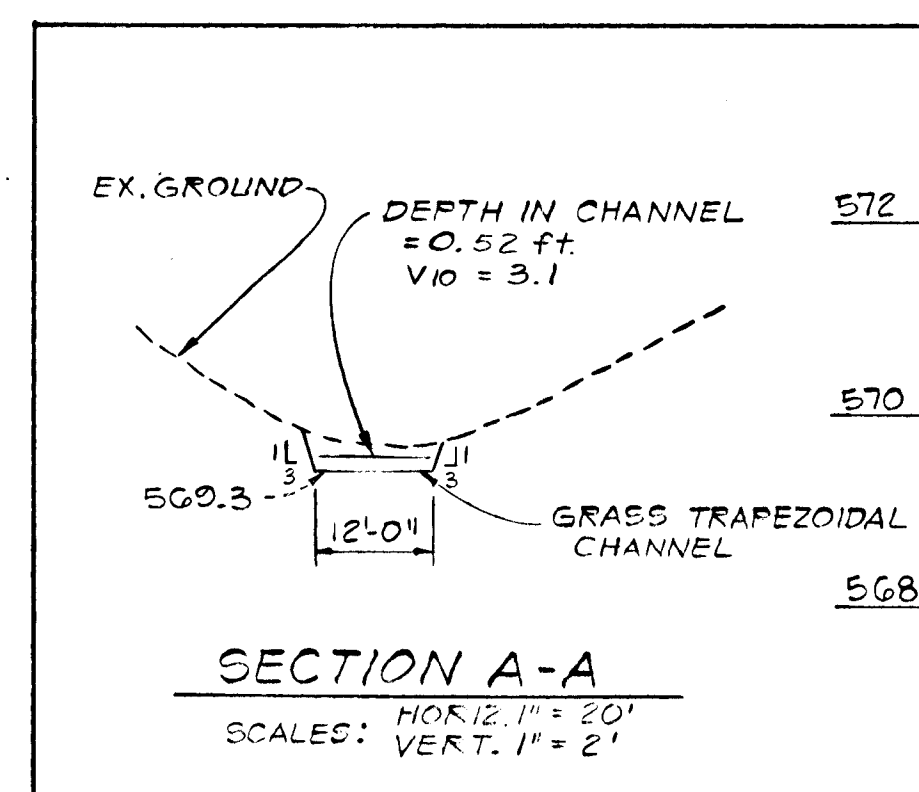
- STANDARD CONC CURB & GUTTER SHALL BE USED ON DRIVEWAYS.
- CUL-DE-SACS THE MAXIMUM GRADE OF THE CIRCULAR AREA IN ANY DIRECTION SHALL NOT EXCEED 6%.
- A PROFILE SHALL BE PROVIDED ALONG THE TOP OF CURB FROM POINT A TO POINT D.

ZONING DISTRICTS	1	2	3	4	5	6	R/W	A
COMMERCIAL INDUSTRIAL (20 APPROX.)	47	59	12	60	38	44		
COMMERCIAL INDUSTRIAL (20 APPROX.)	47	59	12	60	38	44		
RESIDENTIAL	40	50	10	50	30	30		

CURVE DATA

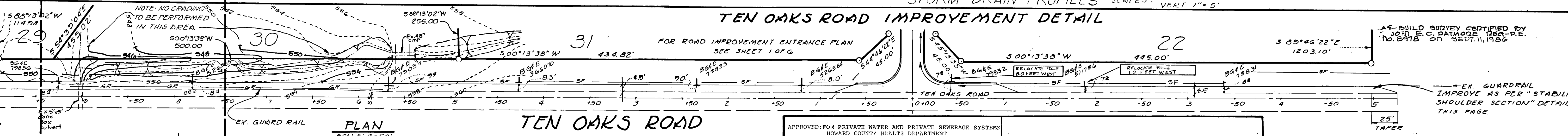
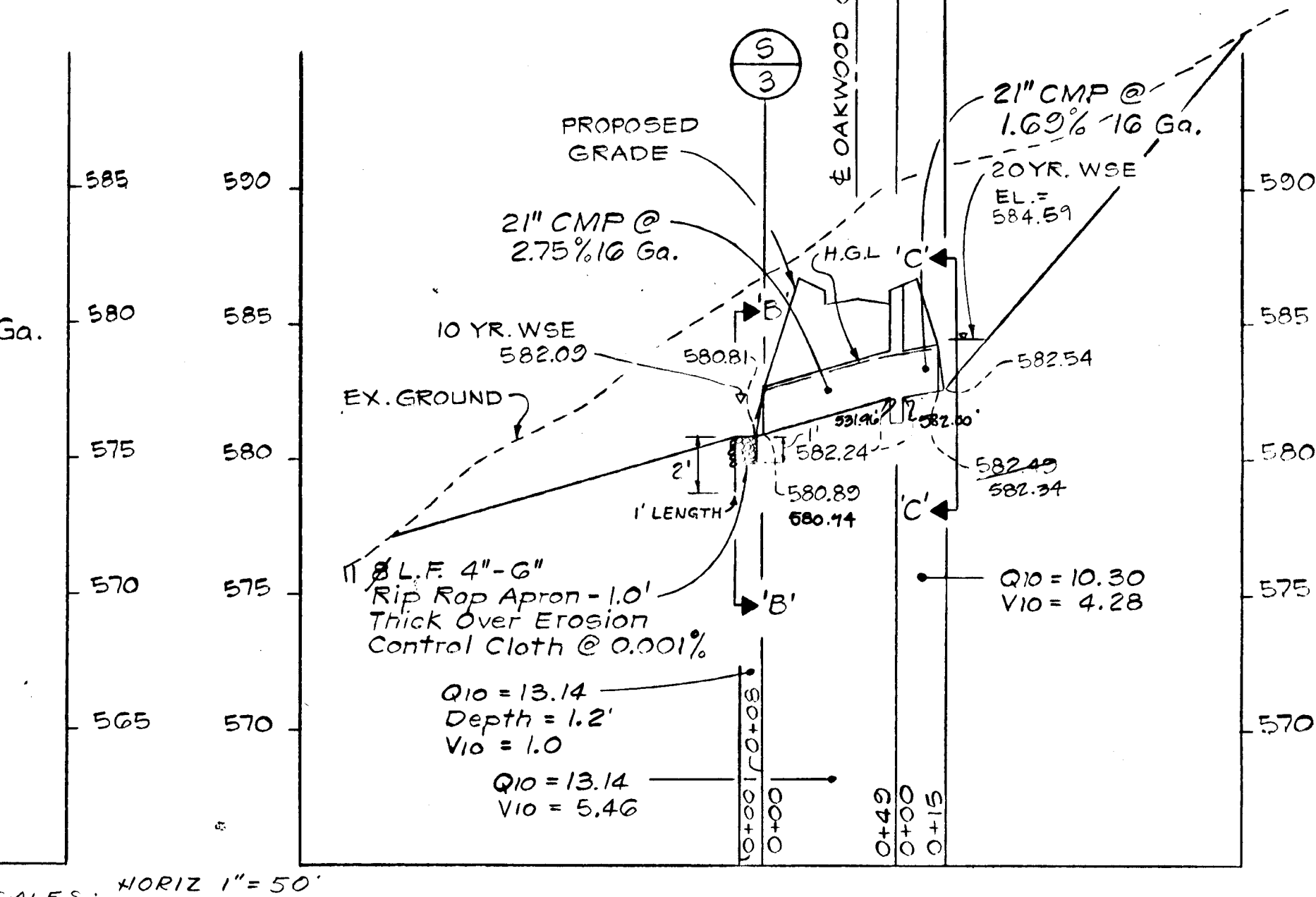
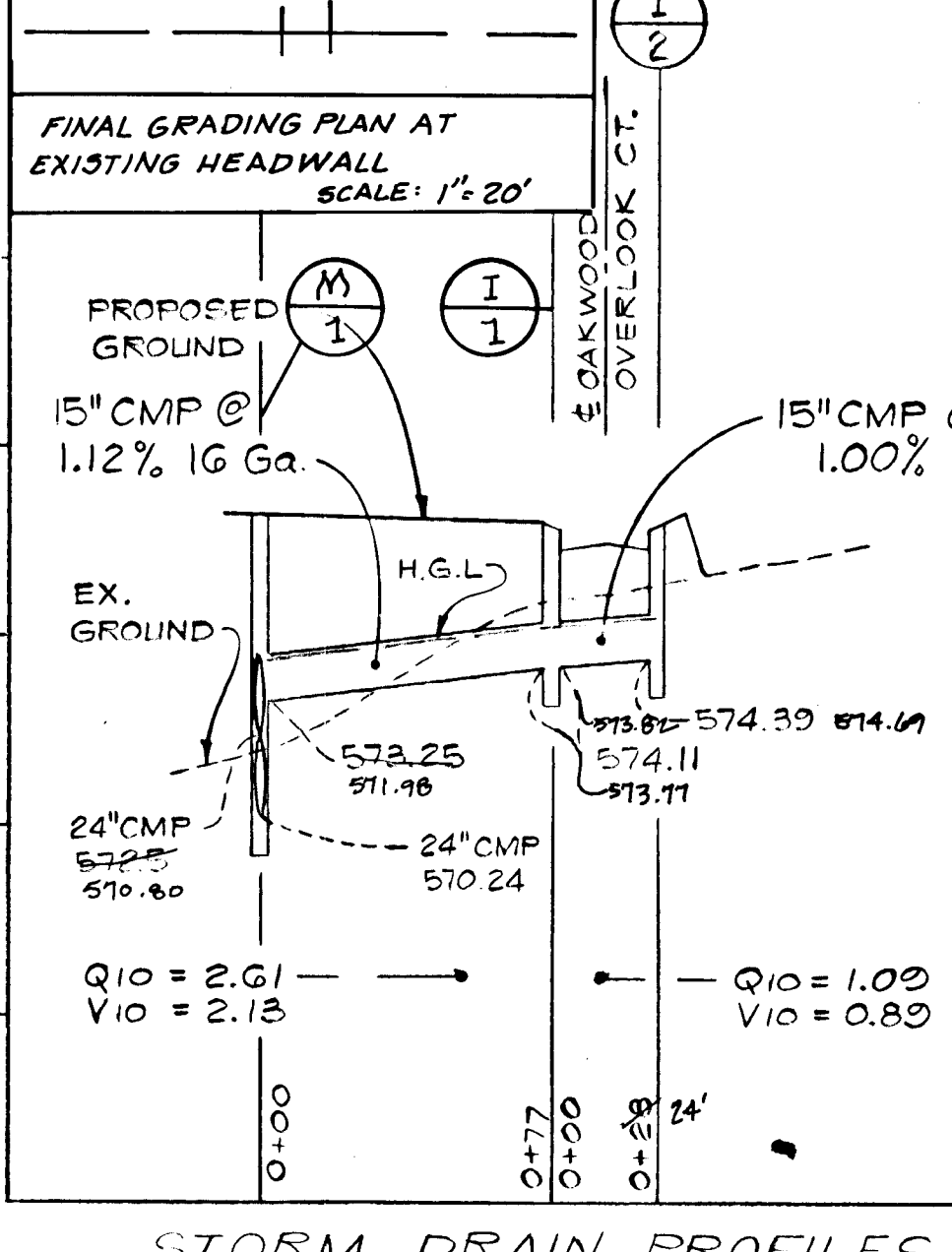
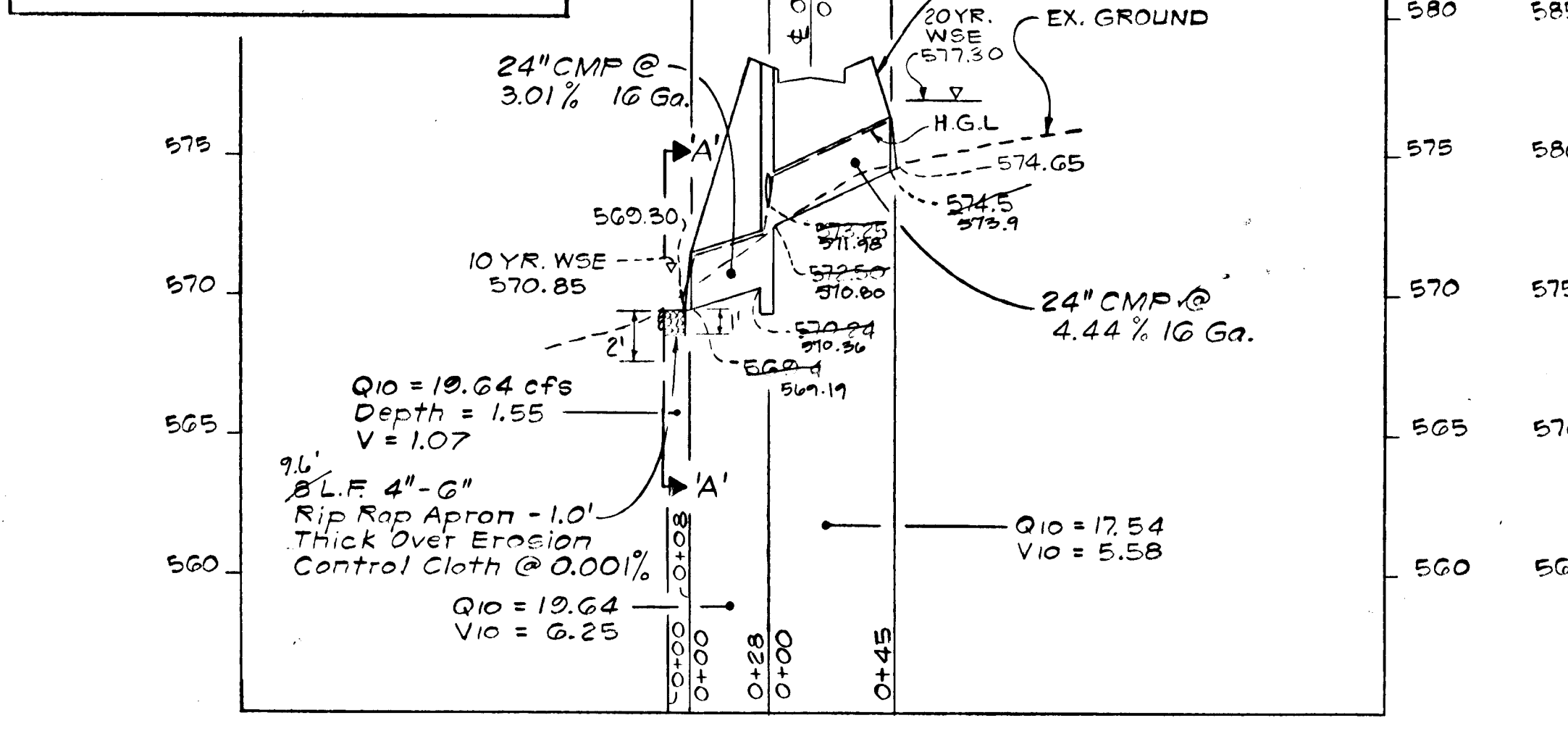
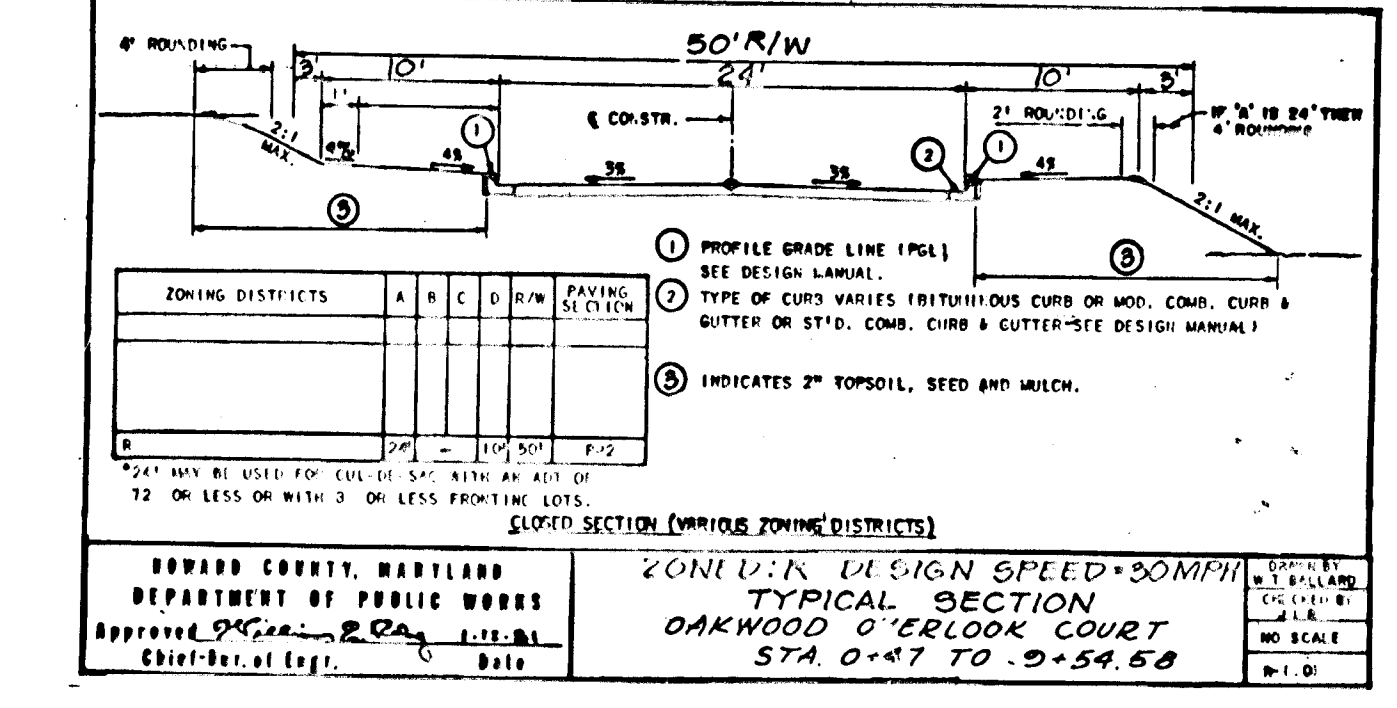
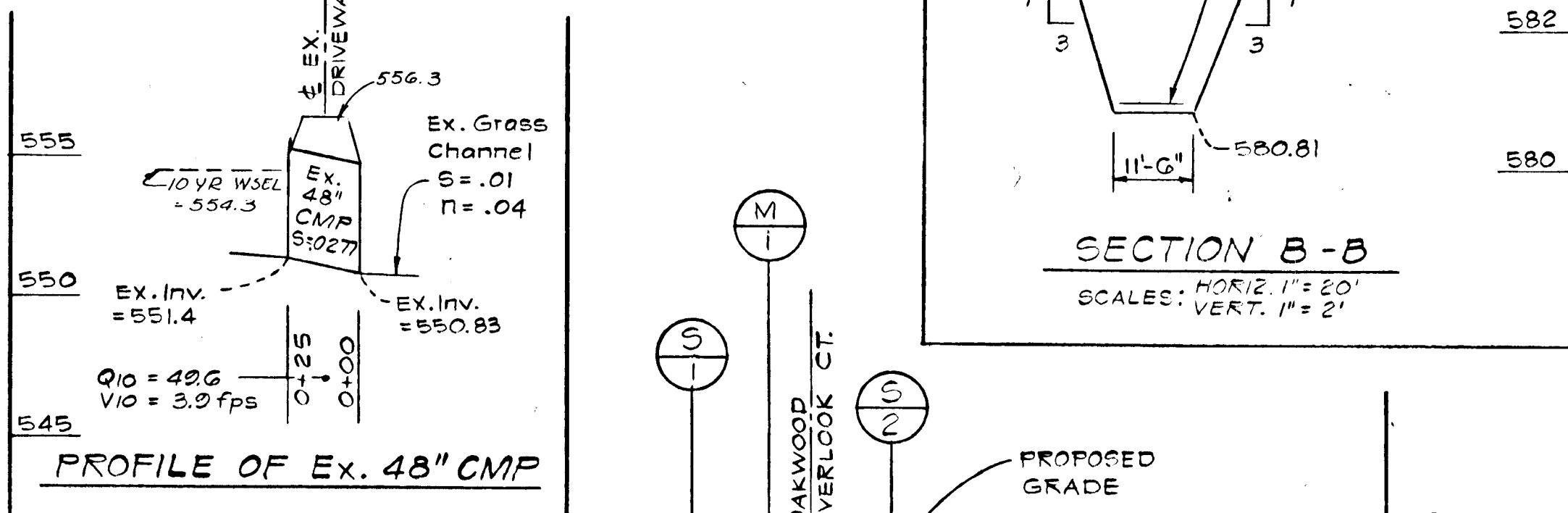
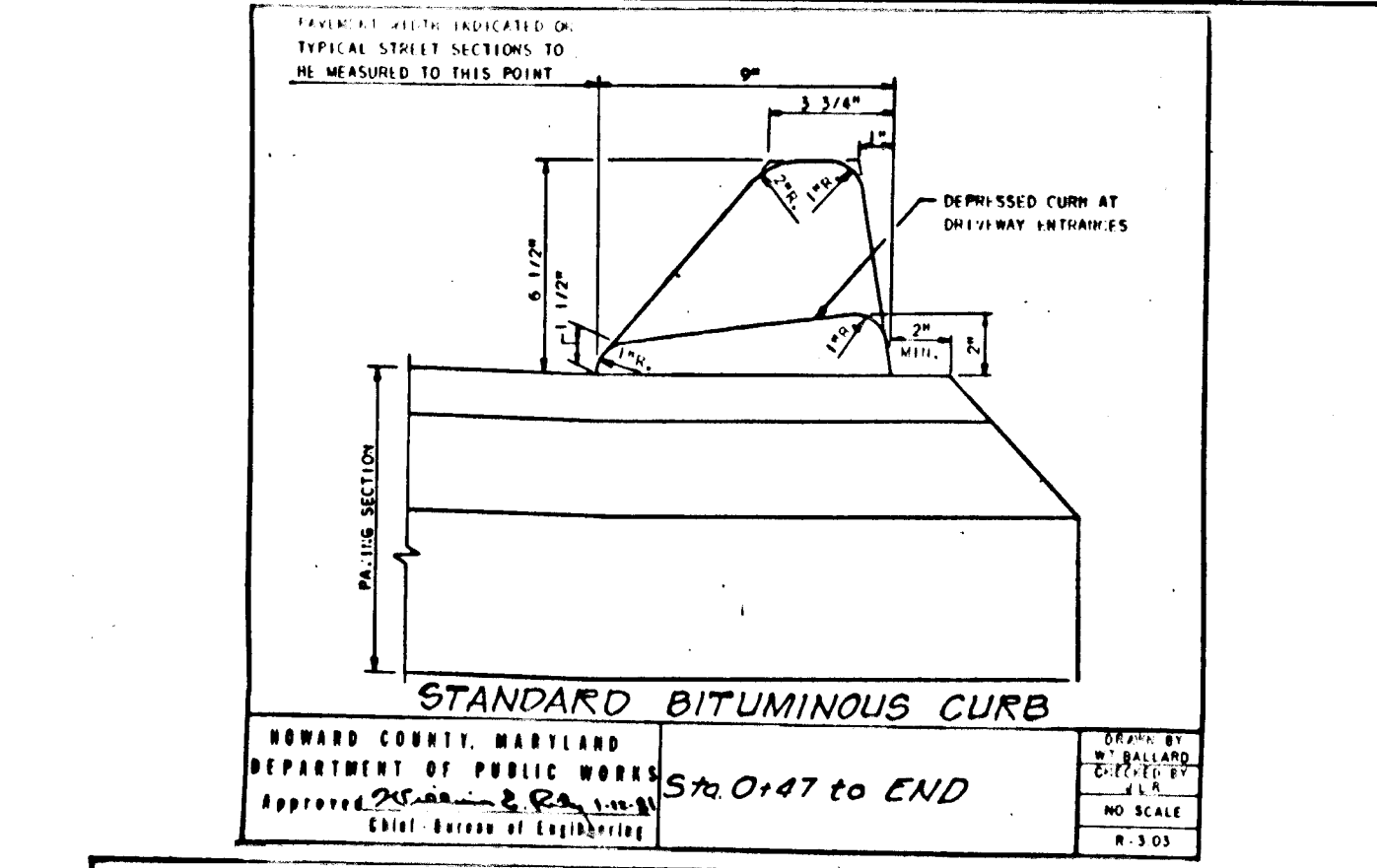
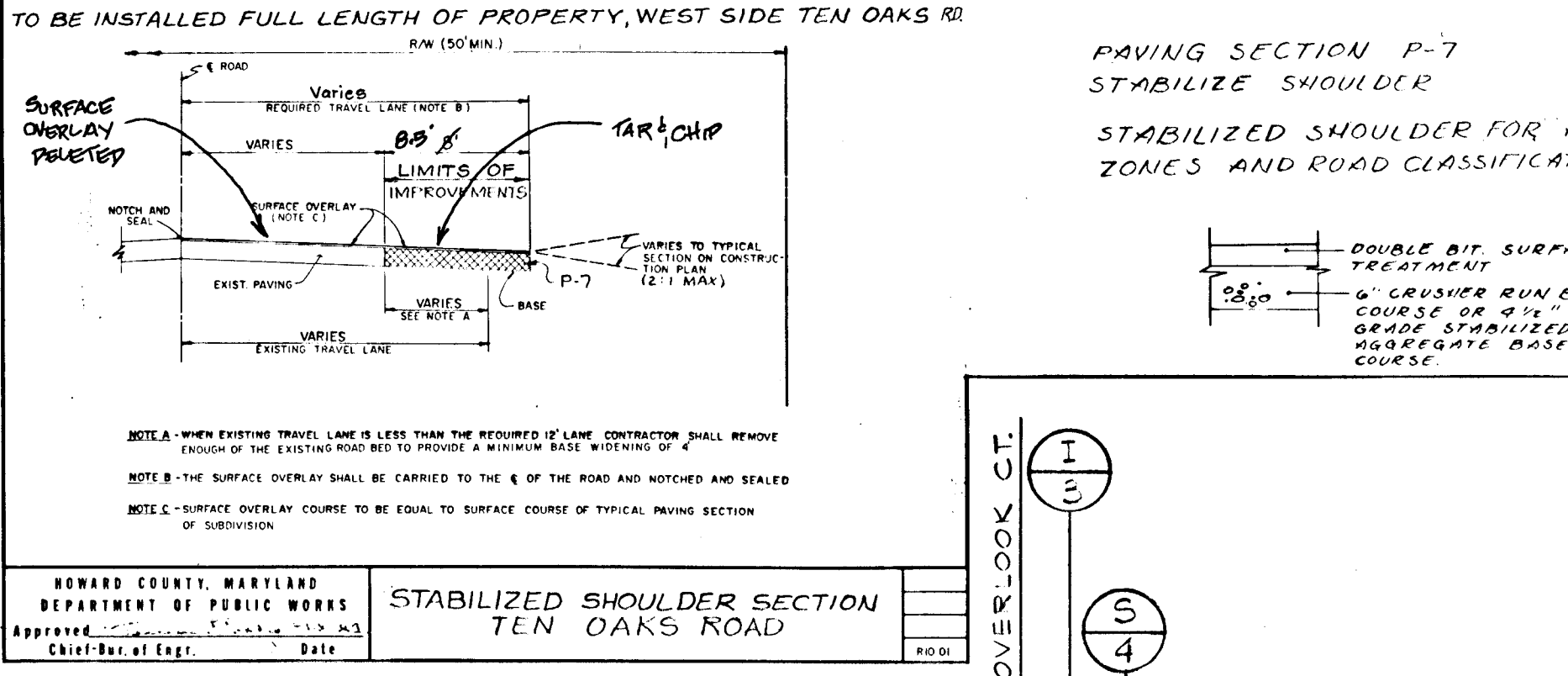
Curve No.	Stationing	Radius (ft)	Length (ft)	Chord (ft)	Delta (deg)	Offset (ft)
1	183.2	486	3	2.97	3.6	0.03
2	200.0	590	3	2.97	3.6	0.03
3	214.2	312	3	2.97	3.6	0.03
4	214.2	312	3	2.97	3.6	0.03
5	207.7	507	3	2.97	3.6	0.03

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



DRAINAGE STRUCTURE SCHEDULE

NO.	TYPE	INV. IN	INV. OUT	TOP EL.	REMARKS
I-1	Ho. Co. Std. Type A-5 Inlet	574.11	574.11	577.83 571.78	(With Deflectors) See Ho. Co. Std. Detail SD-4.01 & SD-4.83
I-2	Ho. Co. Std. Type A-5 Inlet	--	574.39	577.83 571.11	See Ho. Co. Std. Detail SD-4.01
I-3	Ho. Co. Std. Type A-5 Inlet	582.24	582.24	586.72 586.06	See Ho. Co. Std. Detail SD-4.01
S-1	Ho. Co. Std. Metal End Section	569.40	569.30 569.19	571.65	See Ho. Co. Std. Detail SD-5.61
S-2	Ho. Co. Std. Metal End Section	574.65	574.50 573.90	576.75	See Ho. Co. Std. Detail SD-5.61
S-3	Ho. Co. Std. Metal End Section	580.89	580.81 580.14	582.87	See Ho. Co. Std. Detail SD-5.61
S-4	Ho. Co. Std. Metal End Section	582.54	582.49 582.34	586.22	See Ho. Co. Std. Detail SD-5.61
M-1	Ho. Co. Std. Precast Manhole (15") (24")	573.25 572.50	570.36 570.24	578.56 578.29	See Ho. Co. Std. Detail G5.11



OWNER'S/DEVELOPER'S CERTIFICATION

"I/We hereby certify that I have reviewed this erosion and sediment control plan and that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project."

Signature: [Signature] Date: 9-8-86
Name: [Name] Phone No.: 481-4928
Complete Address: AS SHOWN

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."

Signature: [Signature] Date: [Date]
JOHN E. C. PATMORE
Registered Professional Engineer # 8978

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Signature: [Signature] Date: 12-2-86

U.S. SOIL CONSERVATION SERVICE

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

Signature: [Signature] Date: 12-2-86
Approved: Howard S.C.D.

APPROVED: HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER: [Signature] DATE: [Date]

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

Signature: [Signature] DATE: 12-3-86

APPROVED: FOR PRIVATE WATER AND PRIVATE SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Signature: [Signature] DATE: 12-2-86

STORM DRAIN PROFILES & DETAIL SHEET

OAKWOOD OVERLOOK

LOTS 22-31

TAX MAP 22 & 28 PARCEL 2

5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 2 OF 6

DATE: 5-7-86

REVISIONS:

5-7-86 Re-Drawn TEN OAKS RD. D.W.

7-21-87 Added Detail of Grading at Headwall D.W.

7-21-87 Changes to Paving at Headwall D.W.

Signature: [Signature] DATE: 10-8-85

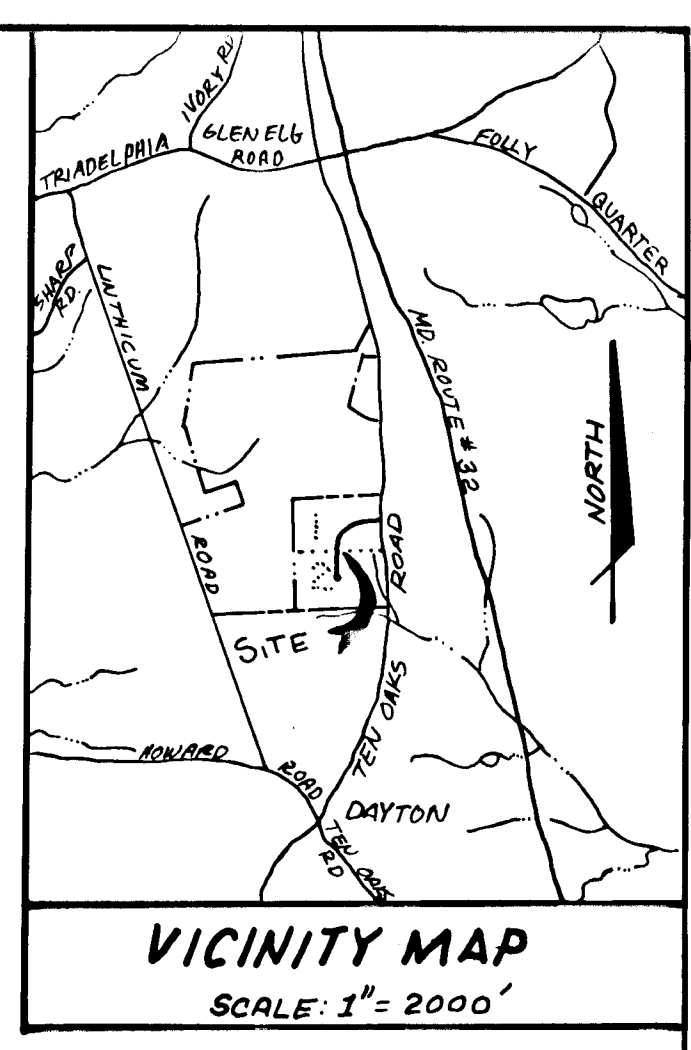
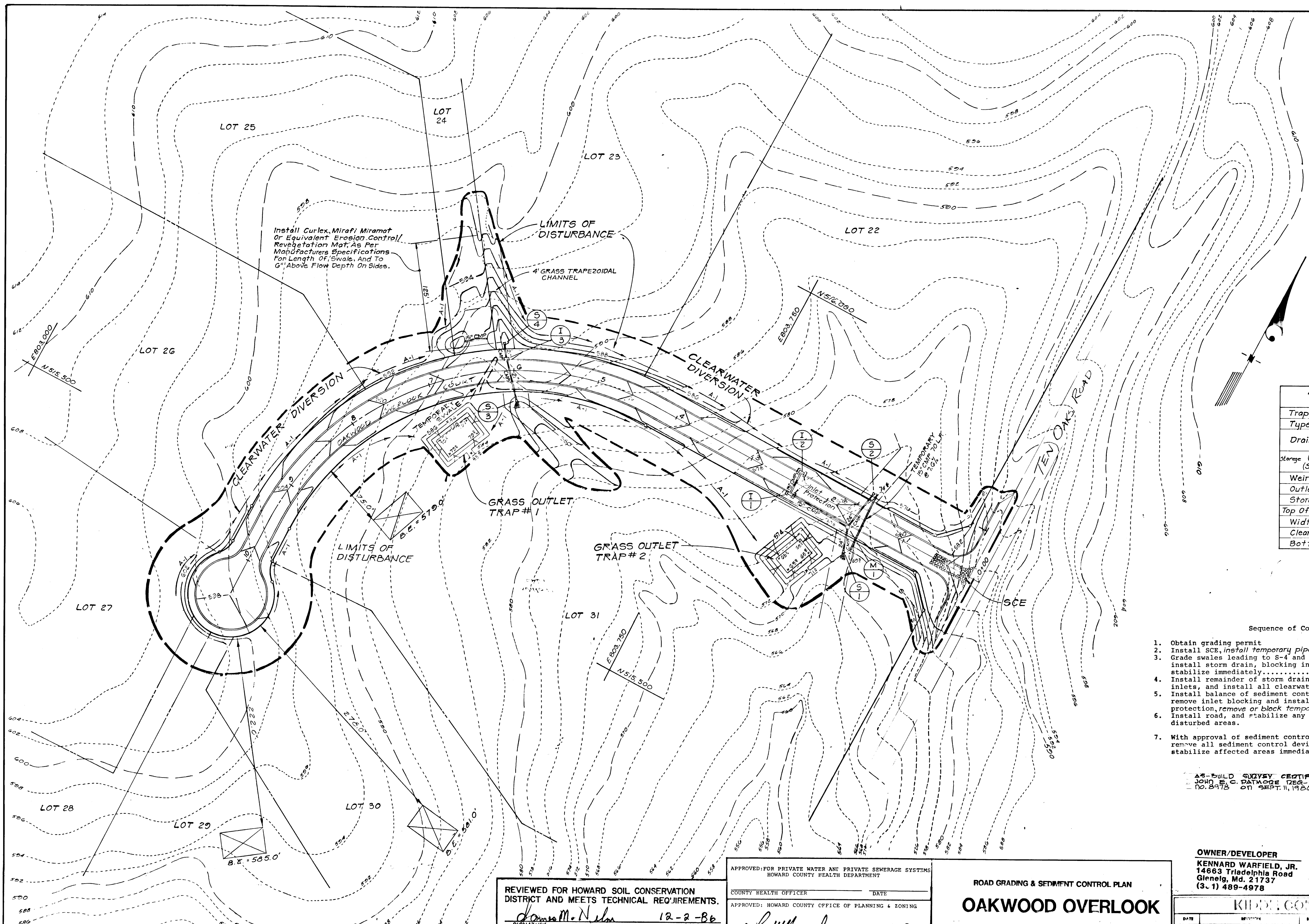
ENGINEERS • PLANNERS • SURVEYORS

1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
(Wash.) (301) 953-1821 / 789-8086 (Bkts)

DEVELOPER:

KIRKAD WATFIELD, JR.
14668 Hiedelphi Road
Glenely, Md. 21737
(301) 488-4878

JOHN E. C. PATMORE, M.E.T. No. 8978
Date: Sept. 1986 per As Shown



TRAP SCHEDULE		
Trap Number	1	2
Type Of Trap	Grass Out.	Grass Out.
Drainage Area	Ex. 0.86 Ac. Prop. 0.86 Ac.	Ex. 0.70 Prop. 0.70
Storage (SWS) Req'd:	1548 ft ³	1242 ft ³
(SWM) Prov'd:	3216 ft ³	2580 ft ³
Weir Length	6'	6'
Outlet Elevation	583.0	571.0
Storage Depth	4'	4'
Top Of Embankment	584.0	570.0
Width "	4'	4'
Cleanout Elev.	581.0	567.0
Bottom Elev.	579.0	565.0

- Sequence of Construction
1. Obtain grading permit
 2. Install SCE, install temporary pipe.....1 Day
 3. Grade swales leading to S-4 and from S-3, install storm drain, blocking inlet, and stabilize immediately.....1 Week
 4. Install remainder of storm drain, blocking inlets, and install all clearwater diversions.....10 Days
 5. Install balance of sediment control measures, remove inlet blocking and install inlet protection, remove or block temporary pipe.....2 Weeks
 6. Install road, and stabilize any remaining disturbed areas.....3 Weeks
 7. With approval of sediment control inspector, remove all sediment control devices and stabilize affected areas immediately.....2 Days

AS-BUILD SURVEY CERTIFIED BY
JOHN E. C. PATMORE REG.-P.E.
NO. 8978 ON SEPT. 11, 1986

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.
Signature: *John E. C. Patmore* Date: 9/11/86
Registered Professional Engineer # 8978

OWNER'S/DEVELOPER'S CERTIFICATION
I/We hereby certify that I have reviewed this erosion and sediment control plan and that all clearing, grading, construction and/or development will be done pursuant to this plan and that any responsible personnel involved in the construction project will have a certificate of attendance at a Department of Natural Resources approved training program for the control of sediment and erosion before beginning the project.
Signature: *Kennard Warfield, Jr.* Date: 9-1-86
Name: *Kennard Warfield, Jr.* Phone No.:
Firm: *Kennard Warfield, Jr.* Complete Address: As Shown

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Signature: *James M. Nelson* Date: 12-2-86
U.S. SOIL CONSERVATION SERVICE
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Signature: *Stephen L. Hahn* Date: 12-2-86
Approved: Howard S.C.D.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT
COUNTY HEALTH OFFICER: _____ DATE: _____
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING
Signature: *John W. ...* Date: 12-3-86
CHIEF BUREAU OF ENGINEERING
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Signature: *Kennard Warfield, Jr.* Date: 12-3-86

ROAD GRADING & SEDIMENT CONTROL PLAN
OAKWOOD OVERLOOK
LOTS 22 - 31
TAX MAP 22 & 28 PARCEL 2
5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SHEET 3 OF 6

OWNER/DEVELOPER
KENNARD WARFIELD, JR.
14863 Tiedelphia Road
Glenelg, Md. 21737
(301) 489-4978

KIDDER CONSULTANTS, INC.
ENGINEERS • PLANNERS • SURVEYORS
1100 WEST STREET / SUITE 100 / LAUREL, MD 20707
(Wash.) (301) 953-1821 / 792-8066 (Balt.)
Signature: *John E. C. Patmore* Md. PE No. 8978
DATE: Sept. 1986 SCALE: 1" = 50'

1243

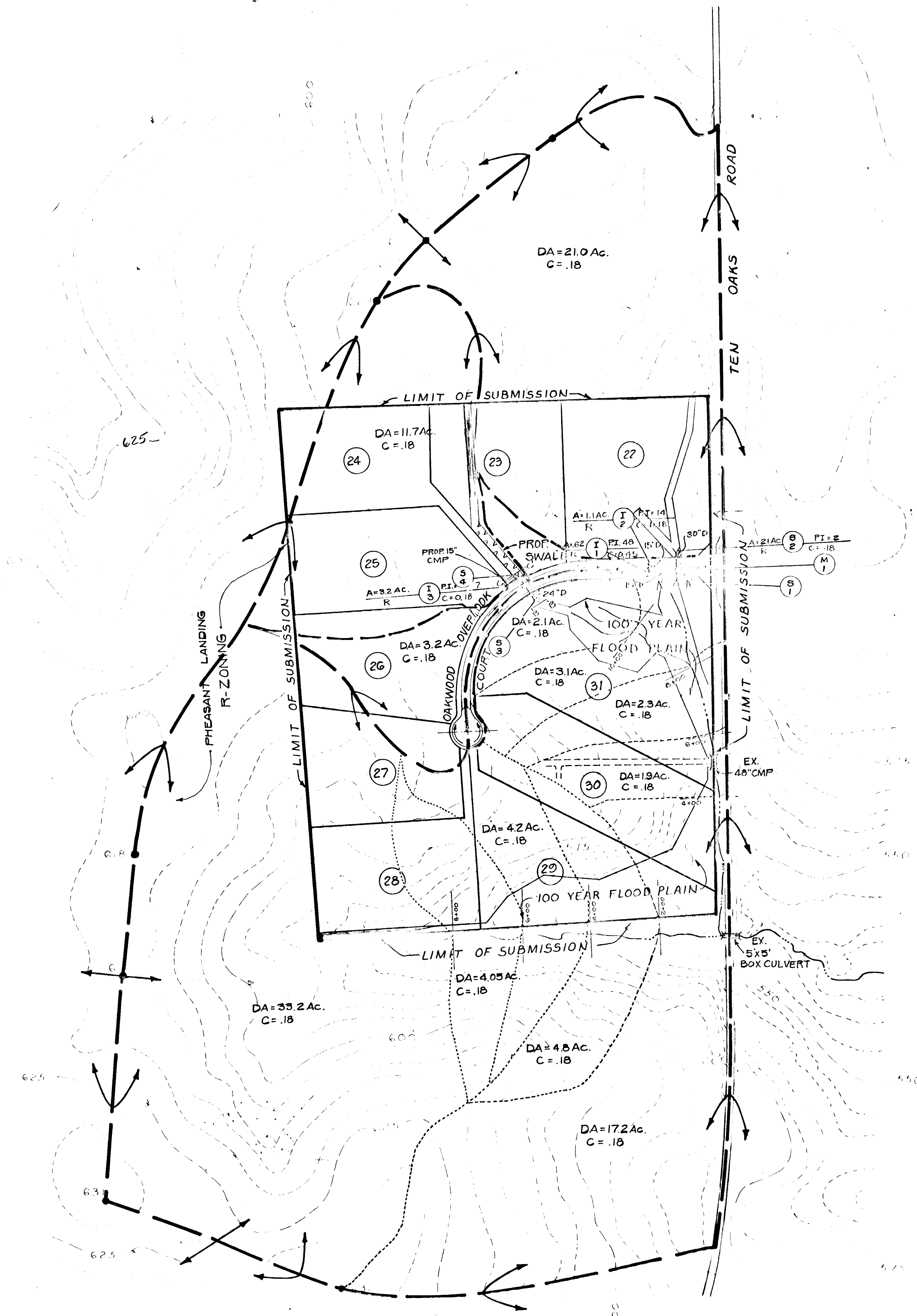
2/5/88

F-87-58

802,000 E
517,000 N

802,000 E
515,000 N

805,000 E
514,000 N



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

John Warfield 12-3-86
CHIEF DIVISION OF LAND USE & ZONING ADMINISTRATION DATE

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

Kennard B. Warfield 12-3-86
CHIEF BUREAU OF RECORDING

DRAINAGE AREA MAP
FOR
OAKWOOD OVERLOOK
LOTS 22 - 31
A RESUBDIVISION OF
LOTS 1 & 2 OF WARFIELD PROPERTY
TAX MAP NO. 22 & 28 PARCEL 2
5TH ELEC. DIST. HOWARD CO., MD

SHEET 5 OF 6

AS-BUILD SURVEY CERTIFIED BY
JOHN E. C. PATKOWICZ REG.-P.E. NO. 8978
ON SEPT. 11, 1986

OWNFR/DEVELOPER
KENNARD WARFIELD, JR.
14663 Tridelphia Road
Glenelg, Md. 21737
(301) 489-4978

KIRK COUNTY ENGINEERING

1100 WEST ST SUITE 100
953-1821

Sept., 1986

#1685125

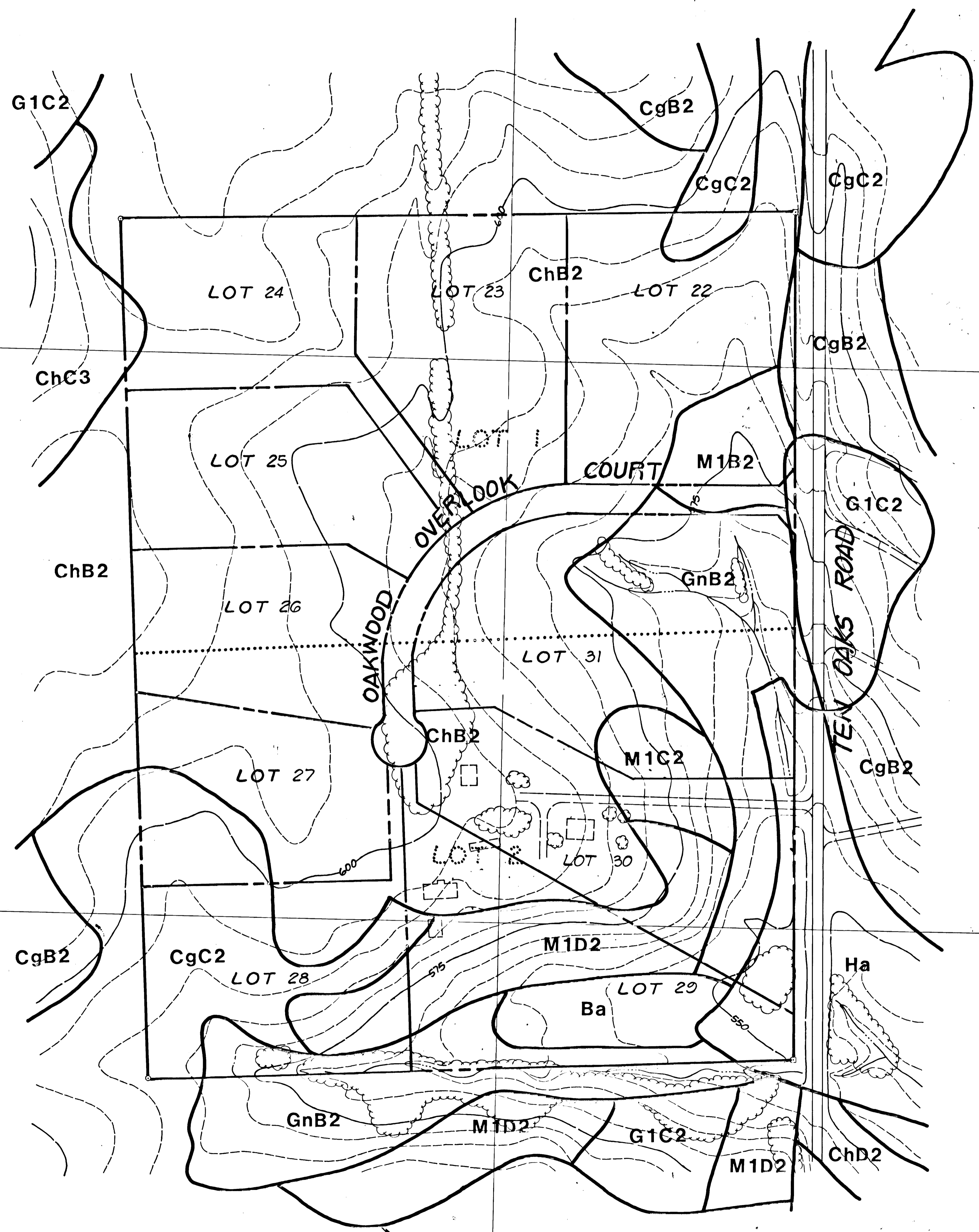
1"=200'

TOPO SOURCE: HO. CO. 200' AERIAL

2/5/88

F-87-58

1243



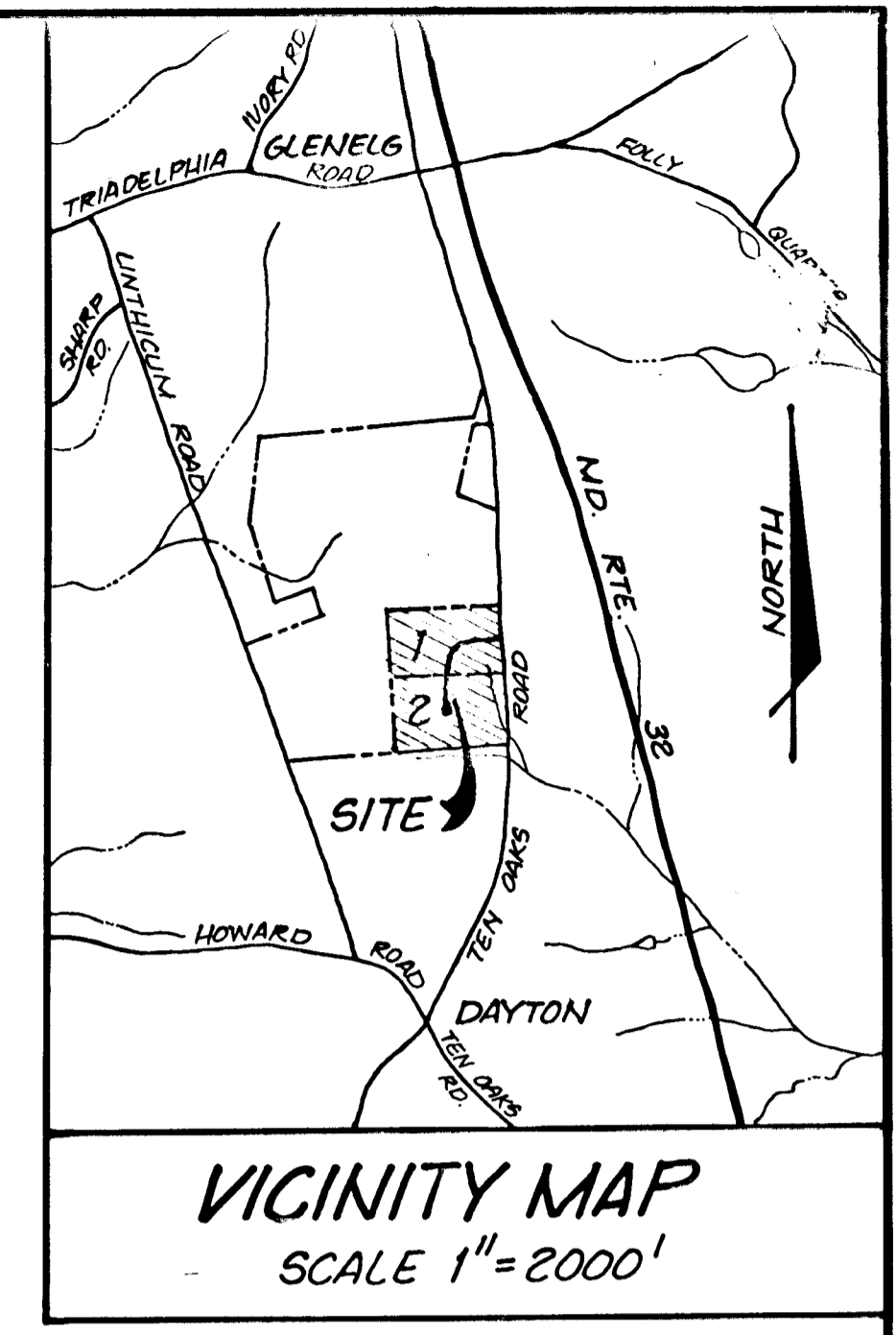
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

COUNTY HEALTH OFFICER _____ DATE _____

APPROVED HOWARD COUNTY OFFICE OF PLANNING & ZONING
[Signature] 12-3-86
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE _____

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

[Signature] 12-8-86
 CHIEF BUREAU OF ENGINEERING DATE _____



SOIL TYPE	GROUP	DESCRIPTION
Ba	D	Baile silt loam nearly level, upland depression, poorly drained
CgB2	B	Chester gravelly silt loam 3 to 8% slopes, moderately eroded
CgC2	B	Chester gravelly silt loam 8 to 15% slopes, moderately eroded
ChB2	B	Chester silt loam 3 to 8% slopes, moderately eroded
ChC3	B	Chester silt loam 8 to 15% slopes, moderately eroded
ChD2	B	Chester silt loam 15 to 25% slopes, moderately eroded
G1C2	B	Glenelg loam 8 to 15% slopes, moderately eroded
GnB2	C	Glenville silt loam 3 to 8% slopes, moderately eroded
Ha	D	Hatboro silt loam level, stream bottom, poorly drained
M1B2	B	Manor loam 3 to 8% slopes, moderately eroded
M1C2	B	Manor loam 8 to 15% slopes, moderately eroded
M1D2	B	Manor loam 15 to 25% slopes, moderately eroded

SOILS MAP
 FOR
OAKWOOD OVERLOOK
 LOTS 22-31
 A RESUBDIVISION OF
 LOTS 1 & 2 OF WARFIELD PROPERTY
 TAX MAP NO. 22 & 28 PARCEL 2
 5TH ELEC. DIST. HOWARD CO, MD

SHEET 6 OF 6

AS-BUILD SURVEY CERTIFIED BY
 JOHN E.C. PATMORE, P.E.
 NO. 8478 ON SEPT. 11, 1986

OWNER/DEVELOPER
KENNARD WARFIELD, JR.
 14663 Triadelphia Road
 Glenelg, Md. 21737
 (301) 489-4978

KIDDE CONSULTANTS, INC.
 ENGINEERS, LAND PLANNERS & SURVEYORS
 1100 WEST ST. SUITE 100 / LAUREL, MD 20707
 (301) 953-1821 / 792-8726

DATE: _____ BY: _____

DESIGNED BY: _____

DRAWN BY: M.W.G.

CHECKED BY: W.H.N.

#1685125

DATE Sept., 1986 SCALE 1" = 100'

F-87-58

2/5/88 ASBUILT

1243