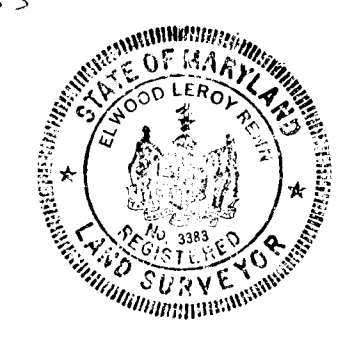


BASE LINE	TRAD	Δ	ARC TAN	CHD	LEN.
1	330.00	24° 25' 00"	142.85	145.0	372° 17' 30" W
2	270.00	24° 25' 00"	119.51	124.2	572° 17' 30" W

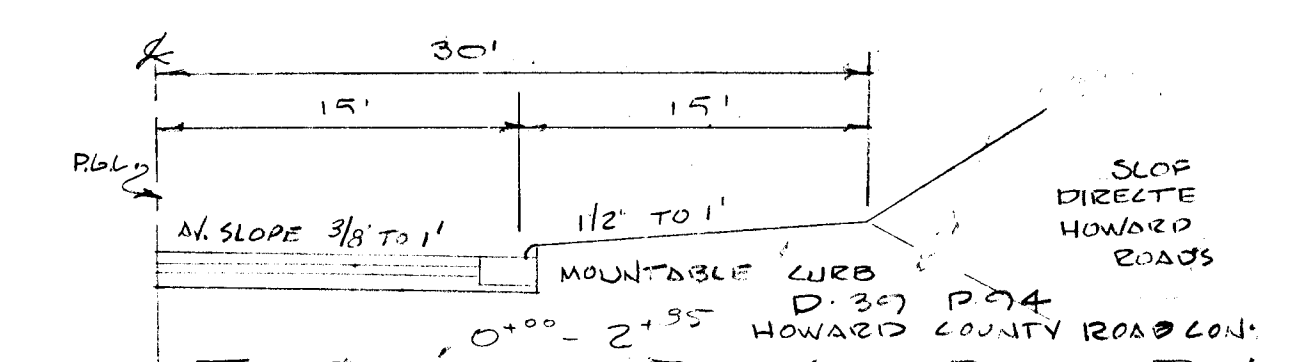
**SURVEYOR'S CERTIFICATE**  
I, HEREBY CERTIFY THAT THE PLAN SHOWN HEREON IS CORRECT AND BASED ON ACTUAL FIELD SURVEYS.

*Clark*  
ELWOOD C. CLARK  
P.L.S. NO. 3383  
MAY 15, 1975

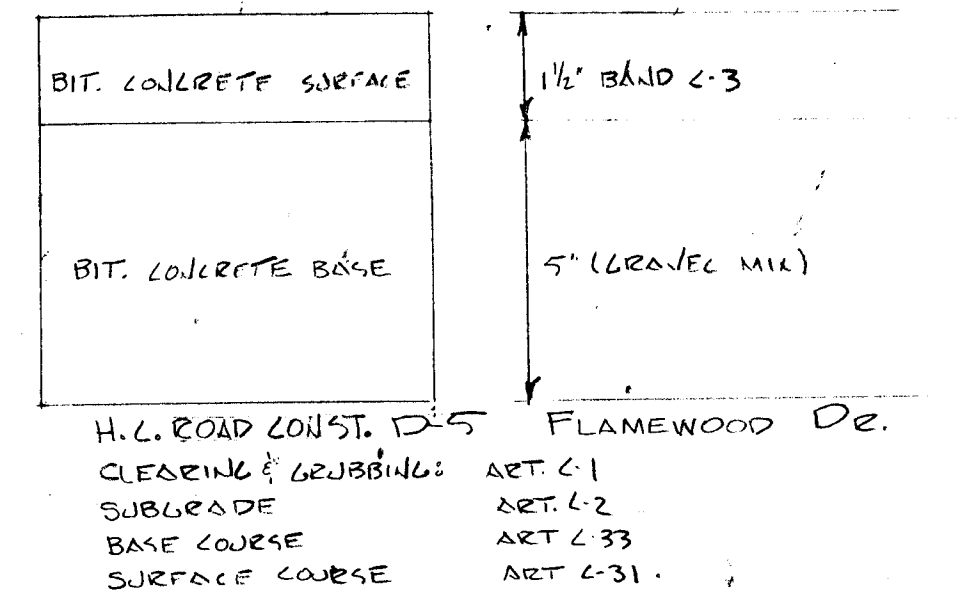
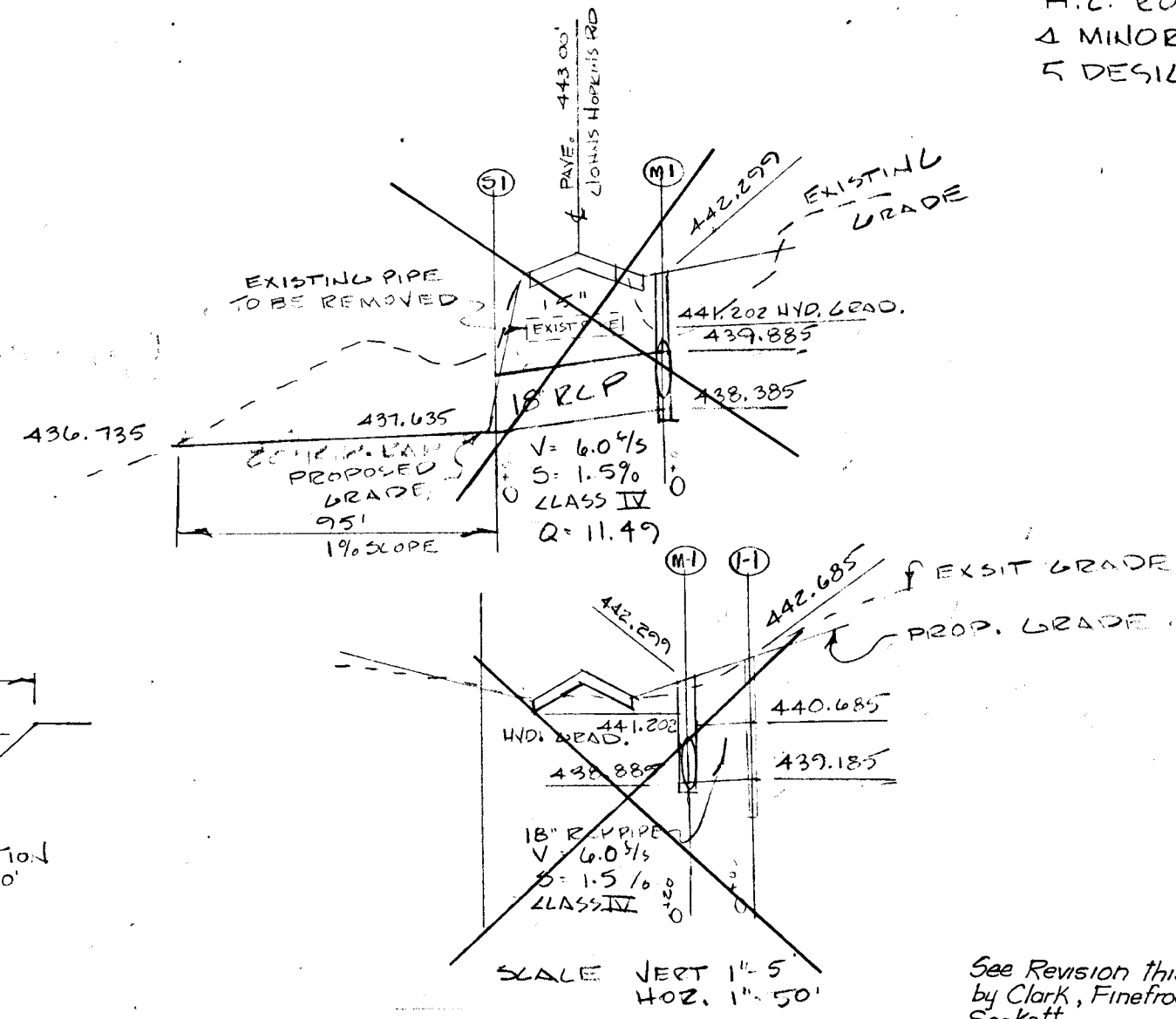
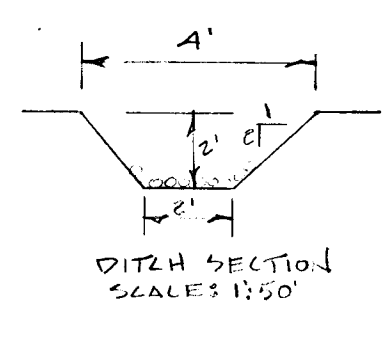
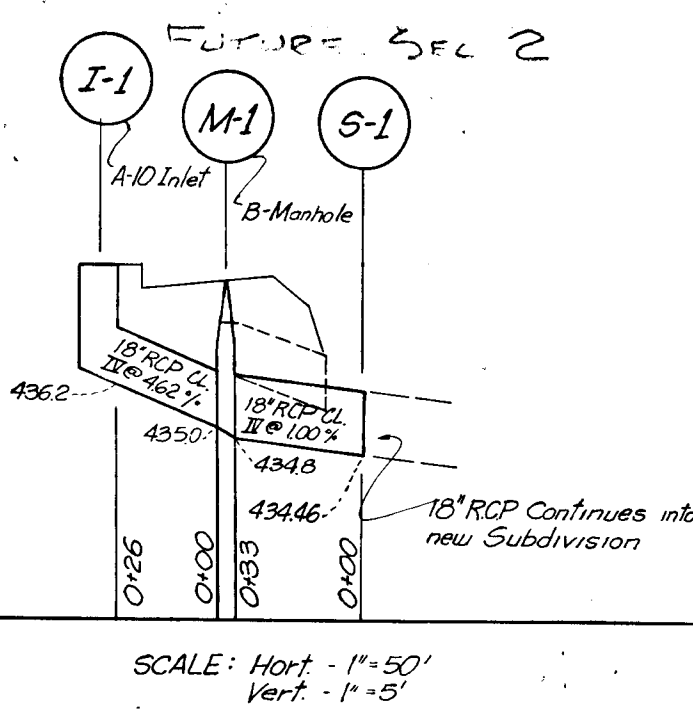
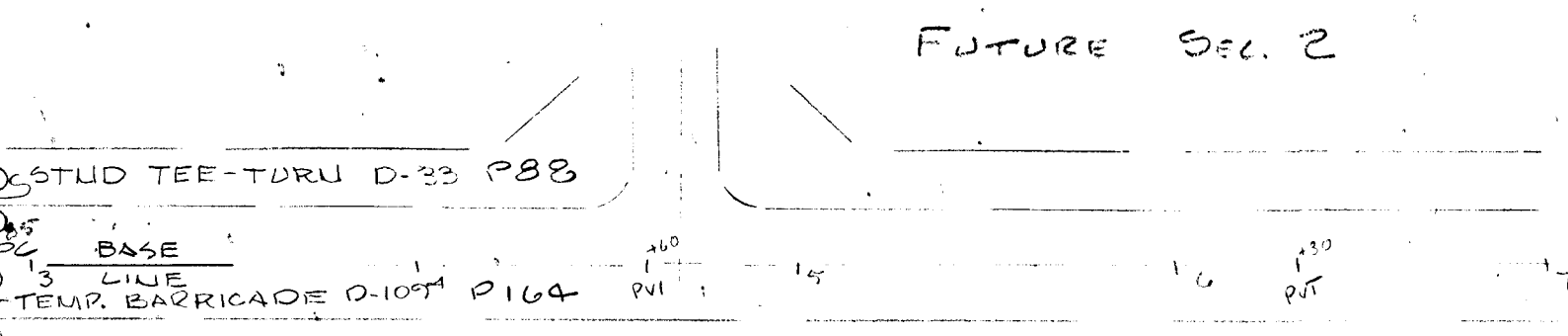
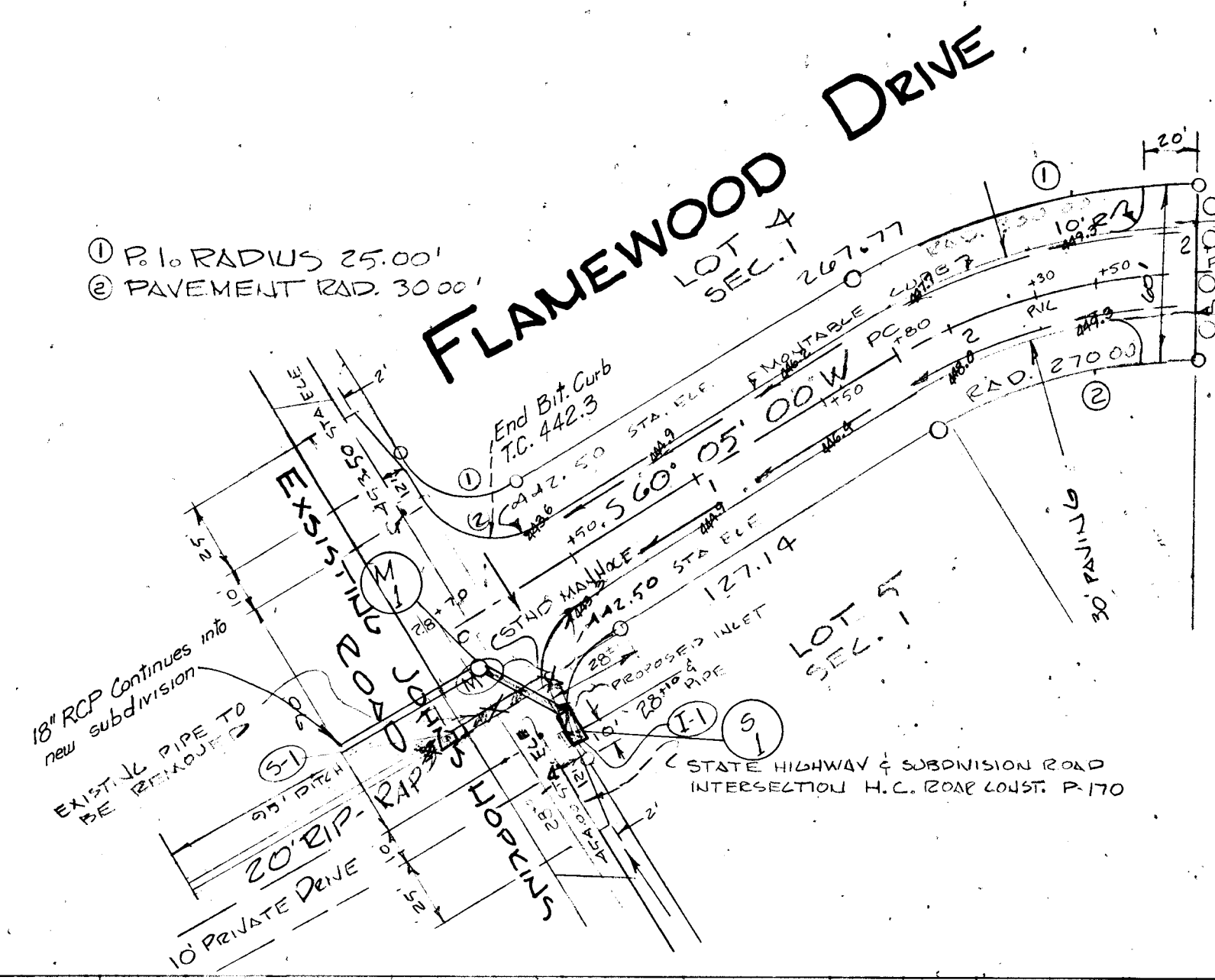


APPROVED: DEPARTMENT OF PUBLIC WORKS  
*J.H. McKeon* 5/19/75  
CHIEF BUREAU OF HIGHWAYS DATE

APPROVED: OFFICE OF PLANNING & ZONING  
*J.H. Clary* 5/15/75  
CHIEF DIVISION OF LAND DEVELOPMENT DATE



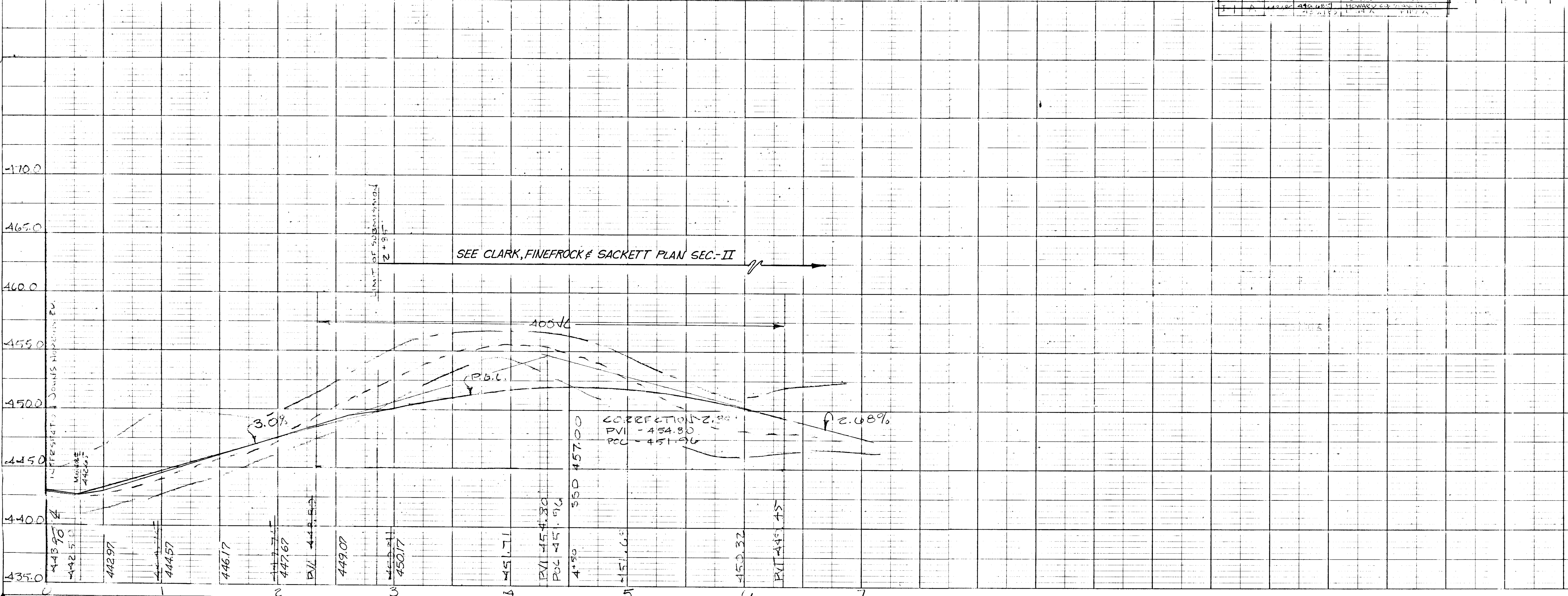
DATE	BY	REVISION



NOTES:  
1. CENTRAL ELEVATION U.S.C. & G.S.  
2. D.O. ORIGINATE ASSUMED DUE TO CLOSEST B.M. OVER ONE MILE FROM SUB.

NO.	TYPE	TOP	INVERT	REMARKS	FROM	TO	DIA.	LEN.	TYPE
1	M	438.70	438.70	MANHOLE	1	1	48"	24'	CONCRETE
2	M	442.50	442.50	MANHOLE	2	2	48"	24'	CONCRETE
3	M	444.57	444.57	MANHOLE	3	3	48"	24'	CONCRETE
4	M	449.07	449.07	MANHOLE	4	4	48"	24'	CONCRETE
5	M	450.17	450.17	MANHOLE	5	5	48"	24'	CONCRETE
6	M	451.71	451.71	MANHOLE	6	6	48"	24'	CONCRETE
7	M	454.32	454.32	MANHOLE	7	7	48"	24'	CONCRETE

DATE	BY	REVISION



PLAN SCALE: 1" = 50'  
**GRADE ESTABLISHMENT**  
SEC. 1  
**FLAMEWOOD DRIVE**  
FIFTH ELECTION DISTRICT  
SCAUGSVILLE  
HOWARD COUNTY, MD.  
SCALE: HOR. 1" = 50' VERT. 1" = 5'  
DATE: DEC. 29, 1974

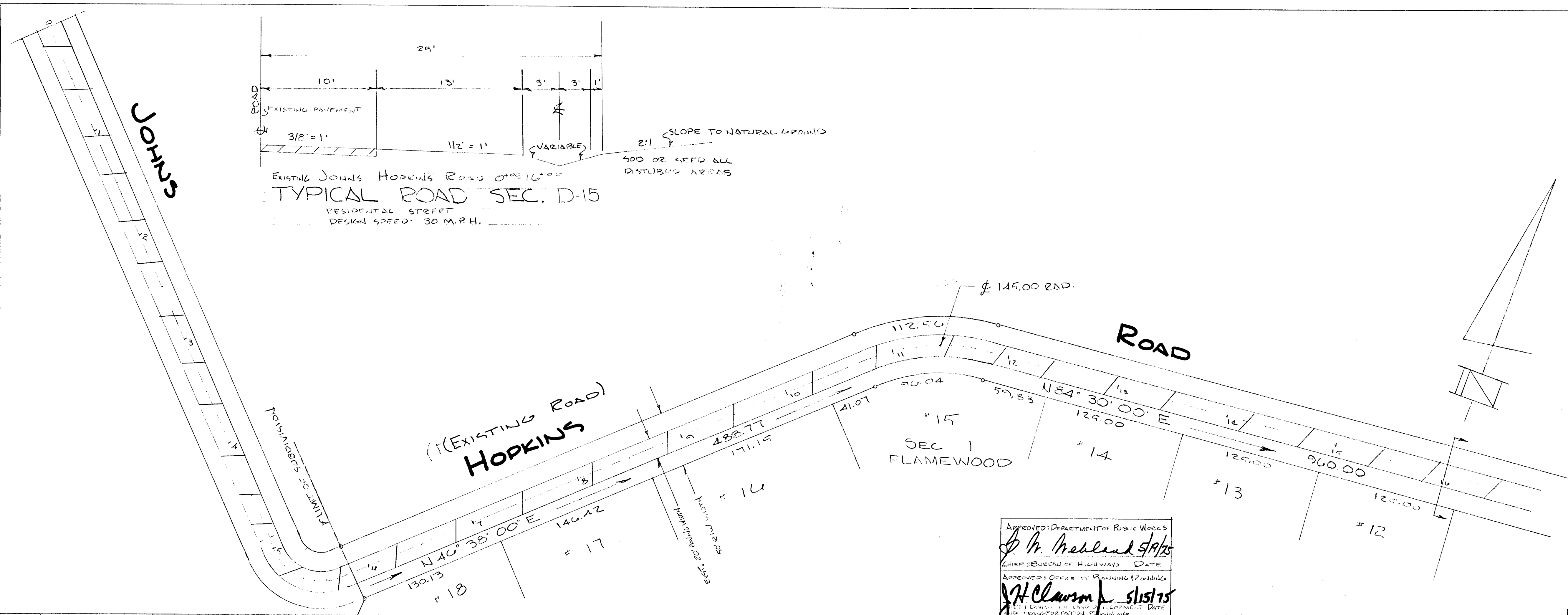
**RENN SURVEYS INC.**  
DAMASCUS, MARYLAND  
SHEET 105-6  
DATE: MAY 5, 1975

OWNERS: HENRY DRYFOOS III  
4701 SANGAMORE RD.  
SULINE, MONT. CO. MD.  
WASHINGTON DC. 20016

APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE: MAY 5, 1975

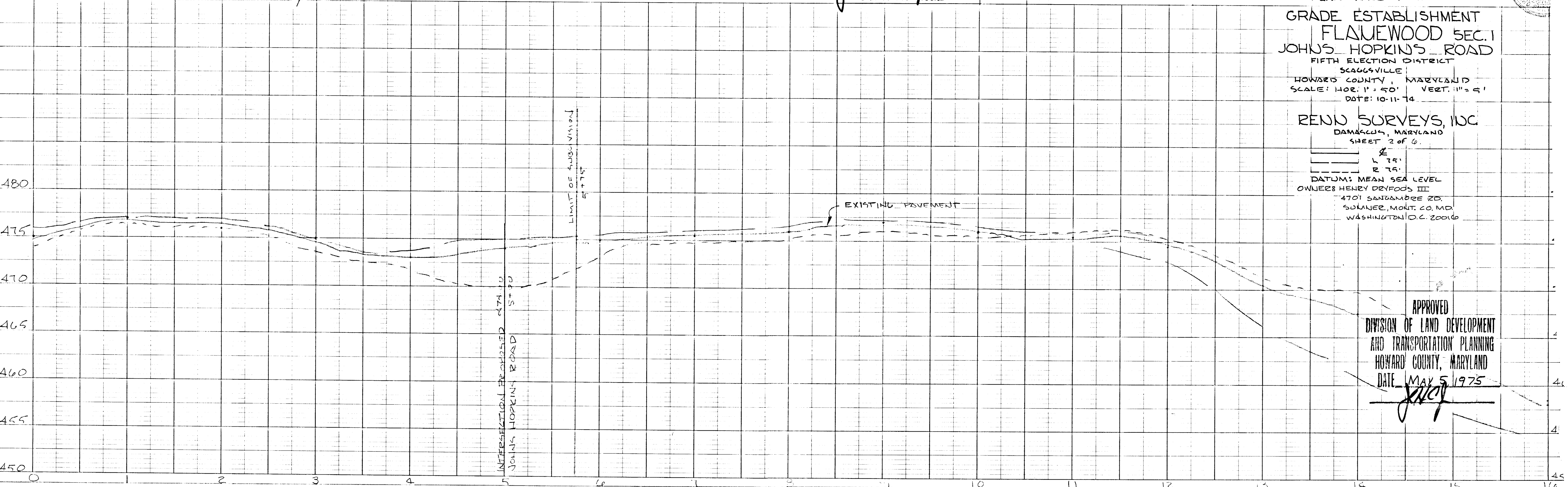
DATE	
BY	
NO.	
DATE	
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BY	
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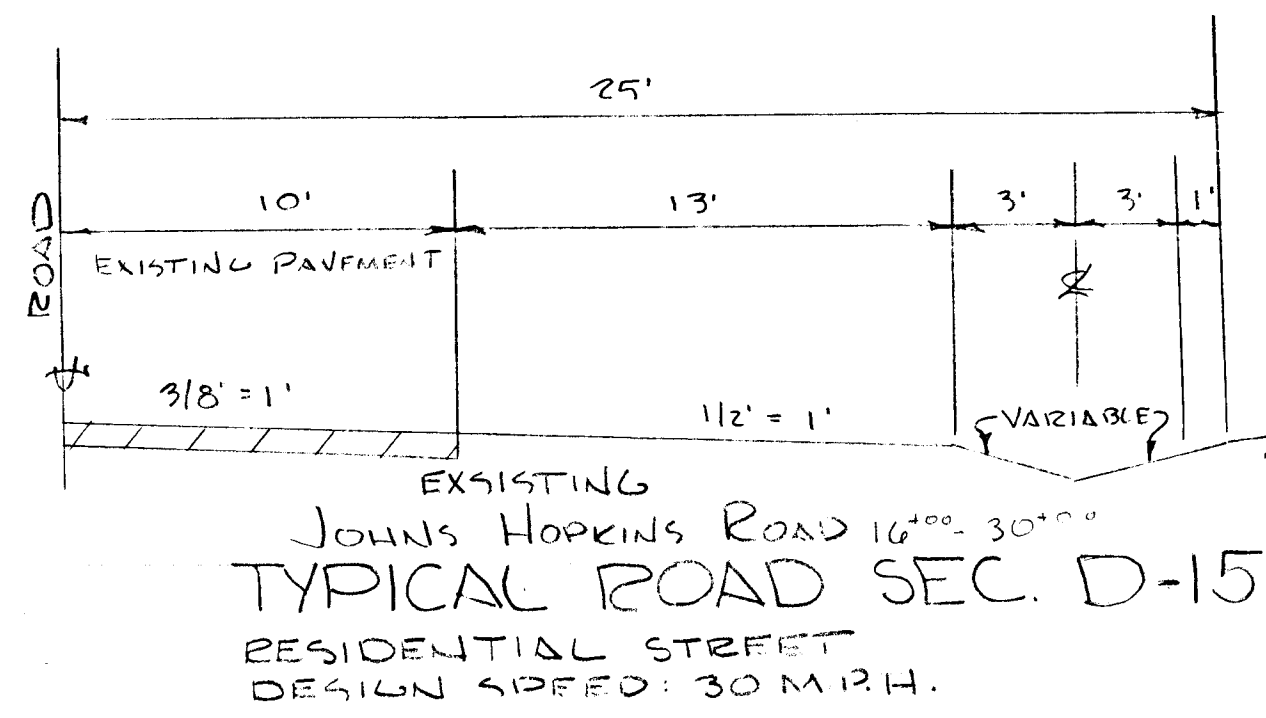


APPROVED: DEPARTMENT OF PUBLIC WORKS  
*Mr. [Signature]* 5/19/75  
 CHIEF BUREAU OF HIGHWAYS DATE  
 APPROVED: OFFICE OF PLANNING & ZONING  
*J.H. [Signature]* 5/15/75  
 CHIEF OFFICE OF PLANNING & ZONING DATE

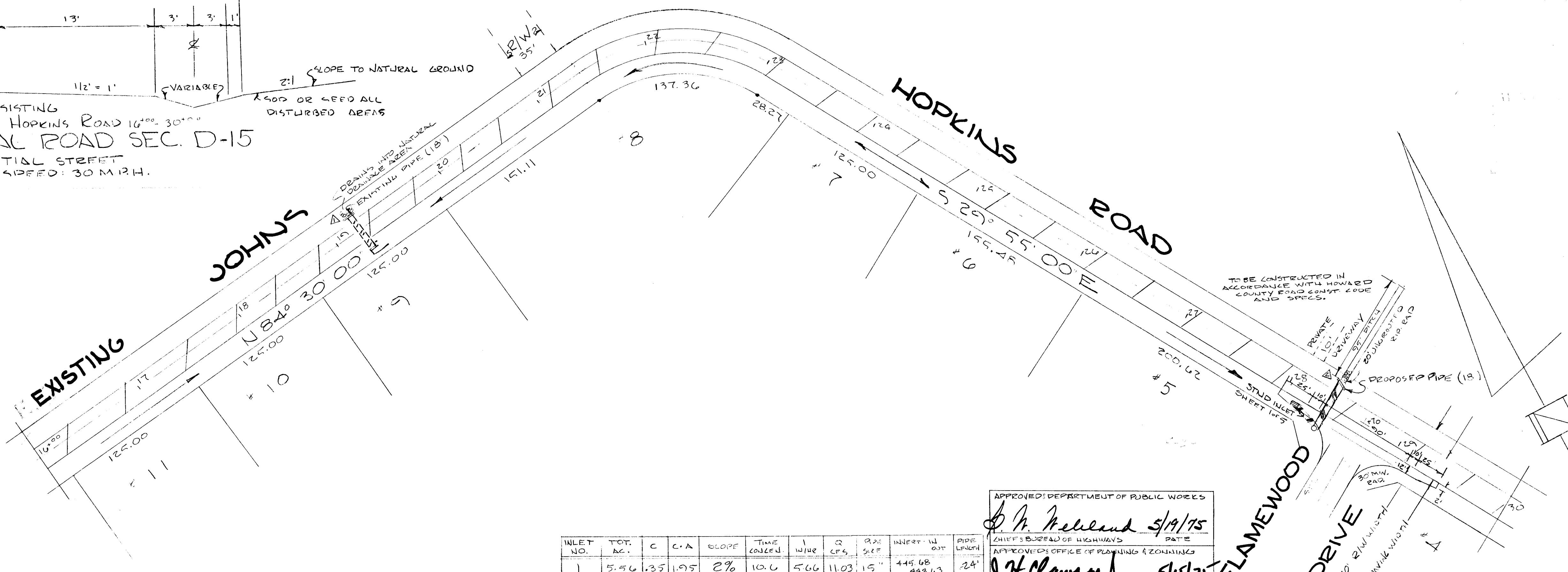
SURVEYOR'S CERTIFICATE  
 I, HEREBY CERTIFY THAT THE  
 PLAN SHOWN HEREON IS CORRECT AND  
 BASED ON ACTUAL FIELD SURVEY.  
*[Signature]*  
 ELWOOD L. [Signature]  
 REG. NO. 3375  
 MAR 10 1975





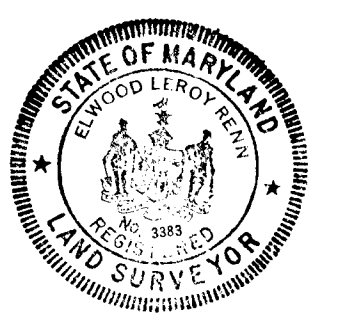


EXISTING  
JOHNS HOPKINS ROAD 16° 30' 30\"/>



INLET NO.	TOT. AC.	C	C-A	SLOPE	TIME CONC'D.	WIRE	Q	R.R.	INVERT - IN	OUT	PIPE LENGTH
1	5.56	.35	1.95	2%	10.6	5.66	11.03	15"	445.68	443.63	24'
2	5.95	.35	0.96	1.0%	10.1	5.76	11.03	18"	442.76	442.57	24'

APPROVED: DEPARTMENT OF PUBLIC WORKS  
*B. N. McLeod* 5/19/75  
 CHIEF'S BUREAU OF HIGHWAYS DATE  
 APPROVED: OFFICE OF PLANNING & ZONING  
*J. H. Clawson* 5/18/75  
 CHIEF'S BUREAU OF PLANNING & ZONING DATE

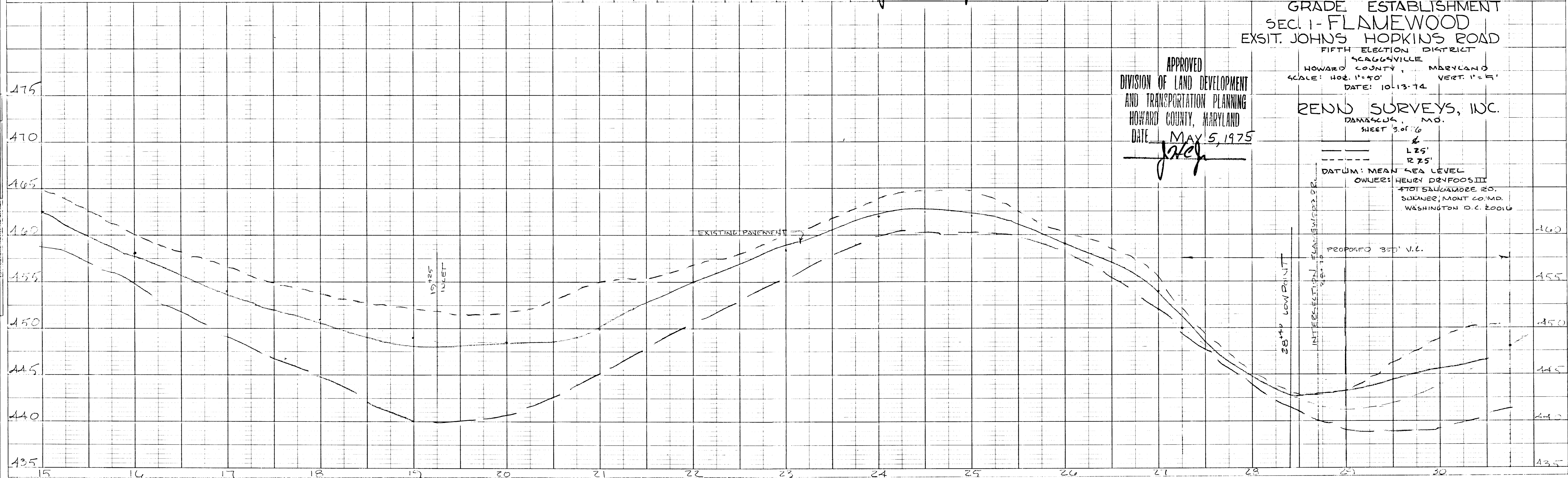


SURVEYOR'S CERTIFICATE  
 I HEREBY CERTIFY THAT THE PLAN  
 SHOWN HEREON IS CORRECT AND BASED ON  
 ACTUAL FIELD SURVEYS  
*Edward L. Reilly*  
 EDWARD L. REILLY  
 P.E.L.S. MD # 3393  
 MAR 10, 1975

PLAN SCALE: 1"=50'  
 GRADE ESTABLISHMENT  
 SEC. 1 - FLAMEWOOD  
 EXIST. JOHNS HOPKINS ROAD  
 FIFTH ELECTION DISTRICT  
 SCAGGSVILLE  
 HOWARD COUNTY, MARYLAND  
 SCALE: HOR. 1"=50' VERT. 1"=5'  
 DATE: 10.13.74

RENN SURVEYS, INC.  
 DAMASCUS, MD.  
 SHEET 3 OF 6  
 L 25'  
 R 25'  
 DATUM: MEAN SEA LEVEL  
 OWNER: HEURY DENFOOS III  
 4701 BALTIMORE RD.  
 SUONER, MONT CO. MD.  
 WASHINGTON D.C. 20016

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE: MAY 5, 1975  
*J. Kelly*

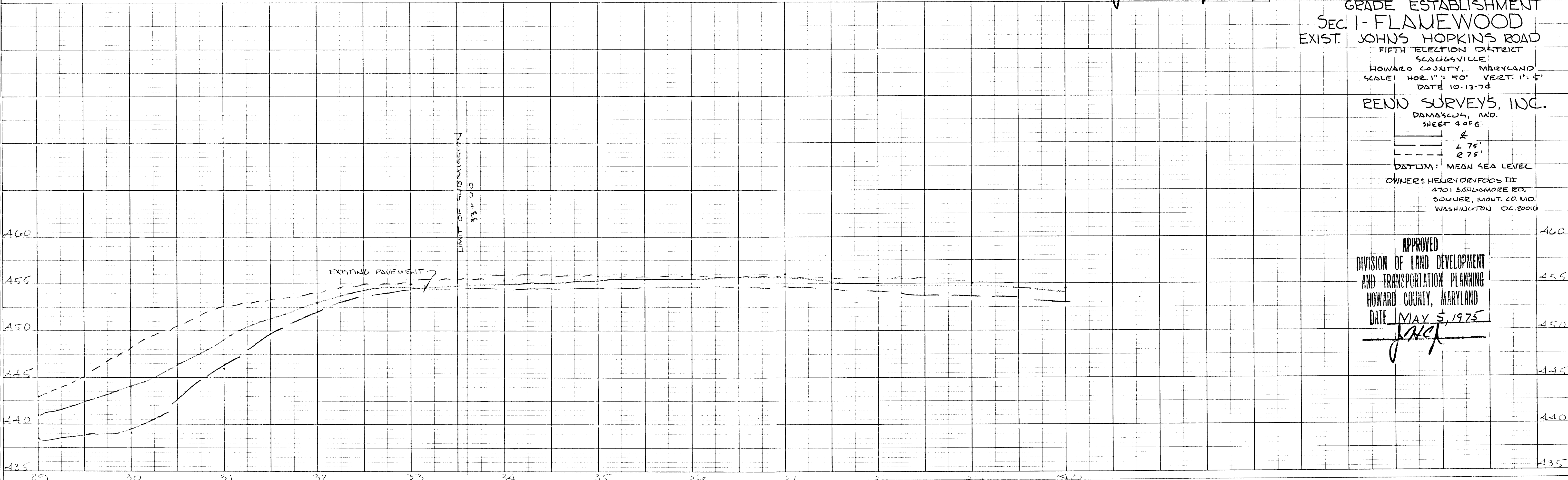
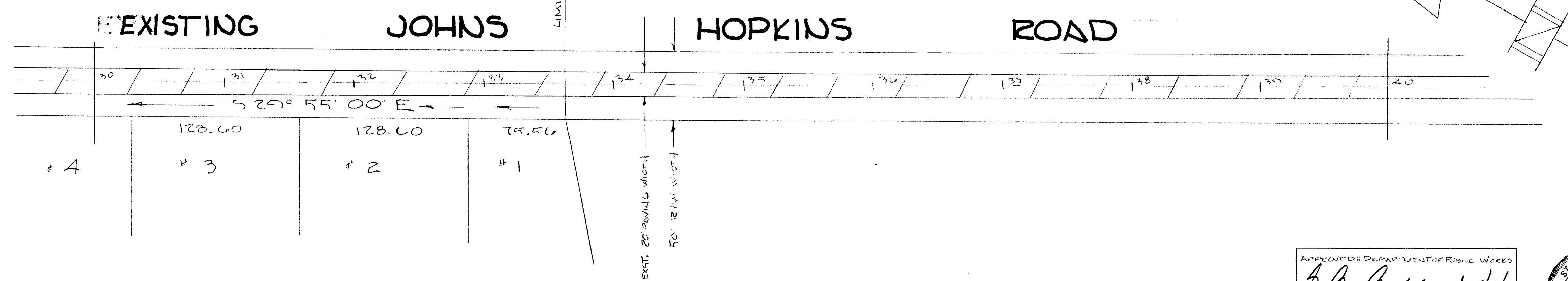
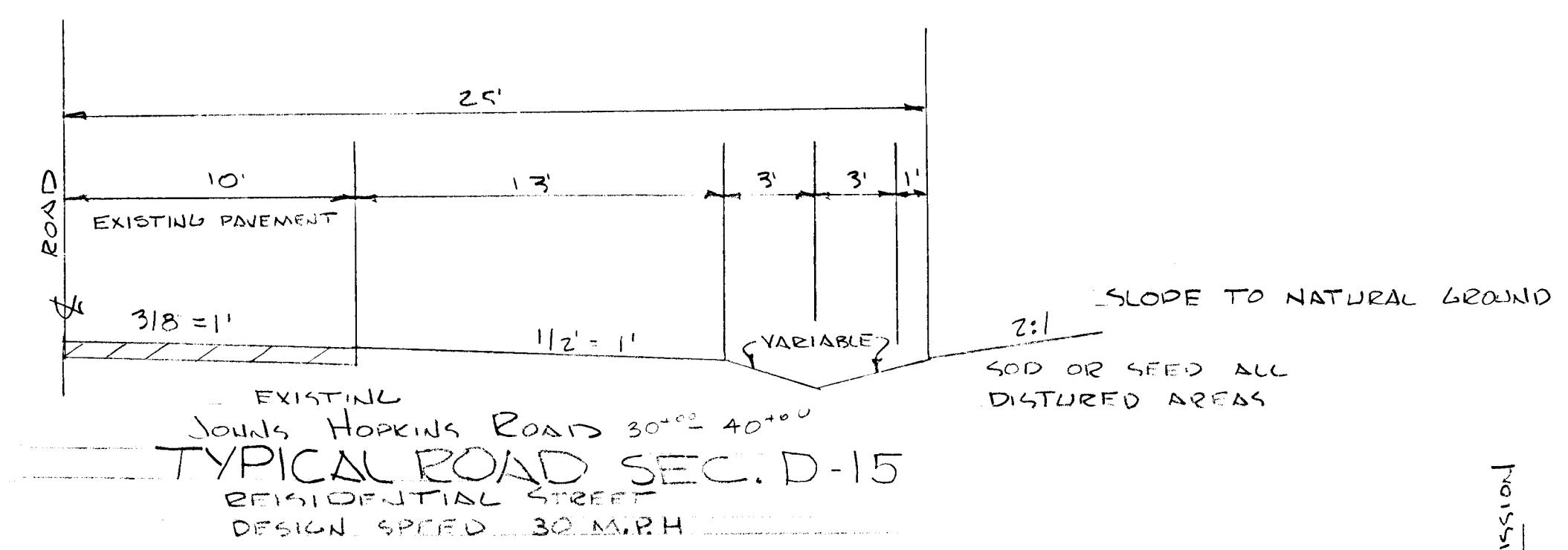


DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE	
BY	
NO.	
NO. OF PART CHECKED	
ALIGNED CHECKED	
PLOTTED	
SURVEYED	

DATE	
BY	
NO.	
NO. OF PART CHECKED	
STRUCTURE NOTATIONS CH.	
B. M. NOTED	
GRADES CHECKED	
PLOTTED	
SURVEYED	



APPROVED DEPARTMENT OF PUBLIC WORKS  
*J. P. McLeod* 5/19/75  
 CHIEF, BUREAU OF HIGHWAYS  
*J. K. Clewley* 5/19/75  
 SUPERVISOR, OFFICE OF PLANNING AND DESIGN  
 AND TRANSPORTATION PLANNING

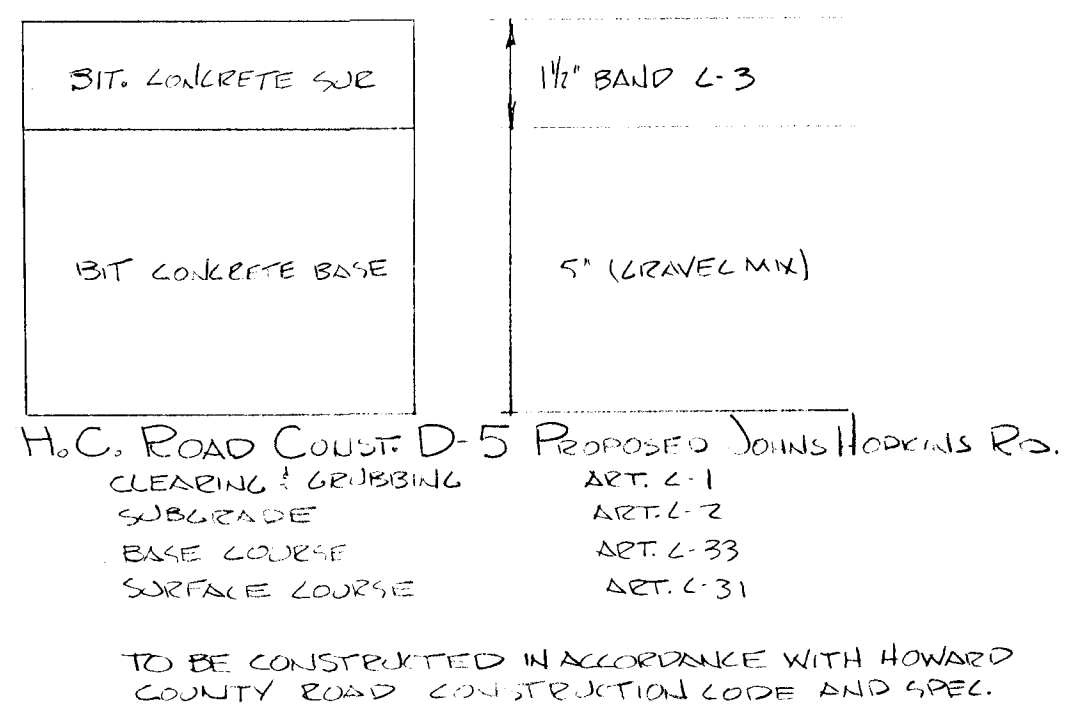
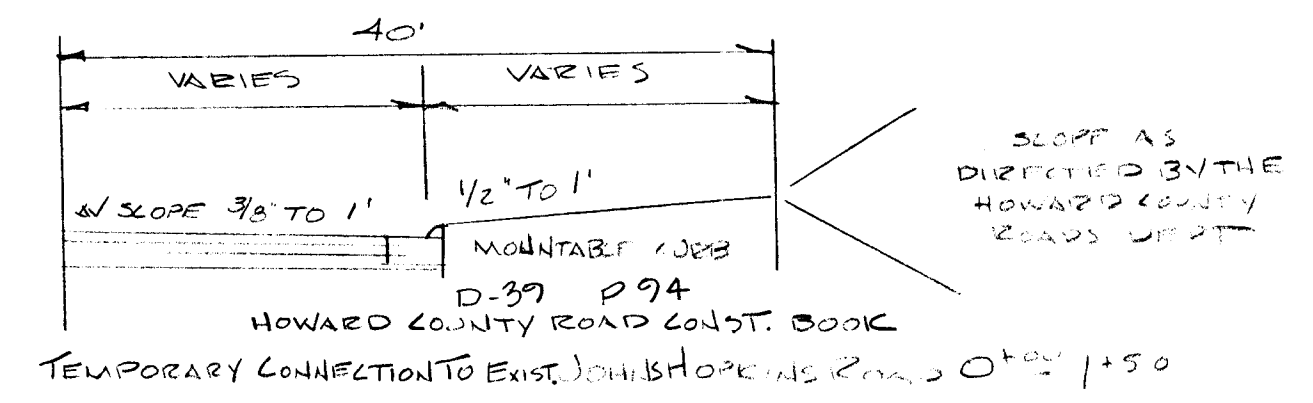
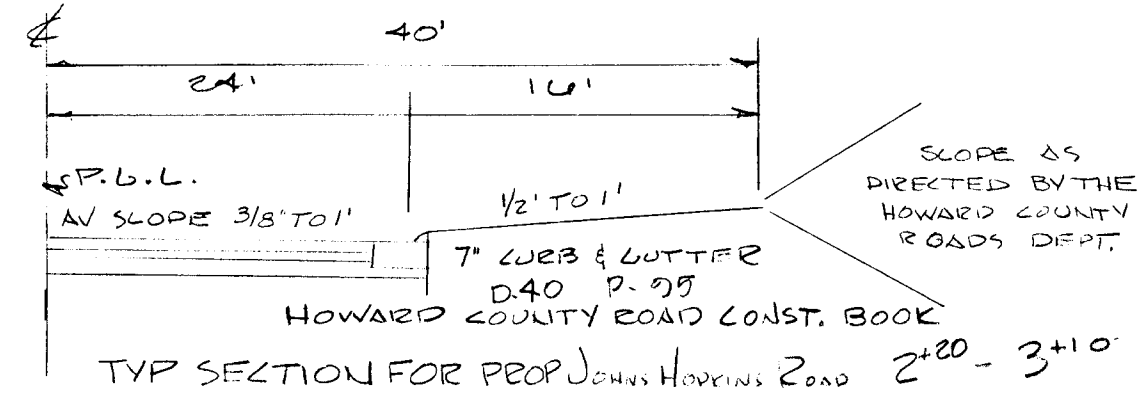


SURVEYOR'S CERTIFICATE  
 I, HEREBY CERTIFY THAT THE PLAN SHOWN HEREON IS CORRECT AND BASED ON ACTUAL FIELD SURVEY.  
*Edward G. Lenn*  
 EDWARD G. LENN  
 R.D. 6, MD 3333  
 MAR. 10, 1975

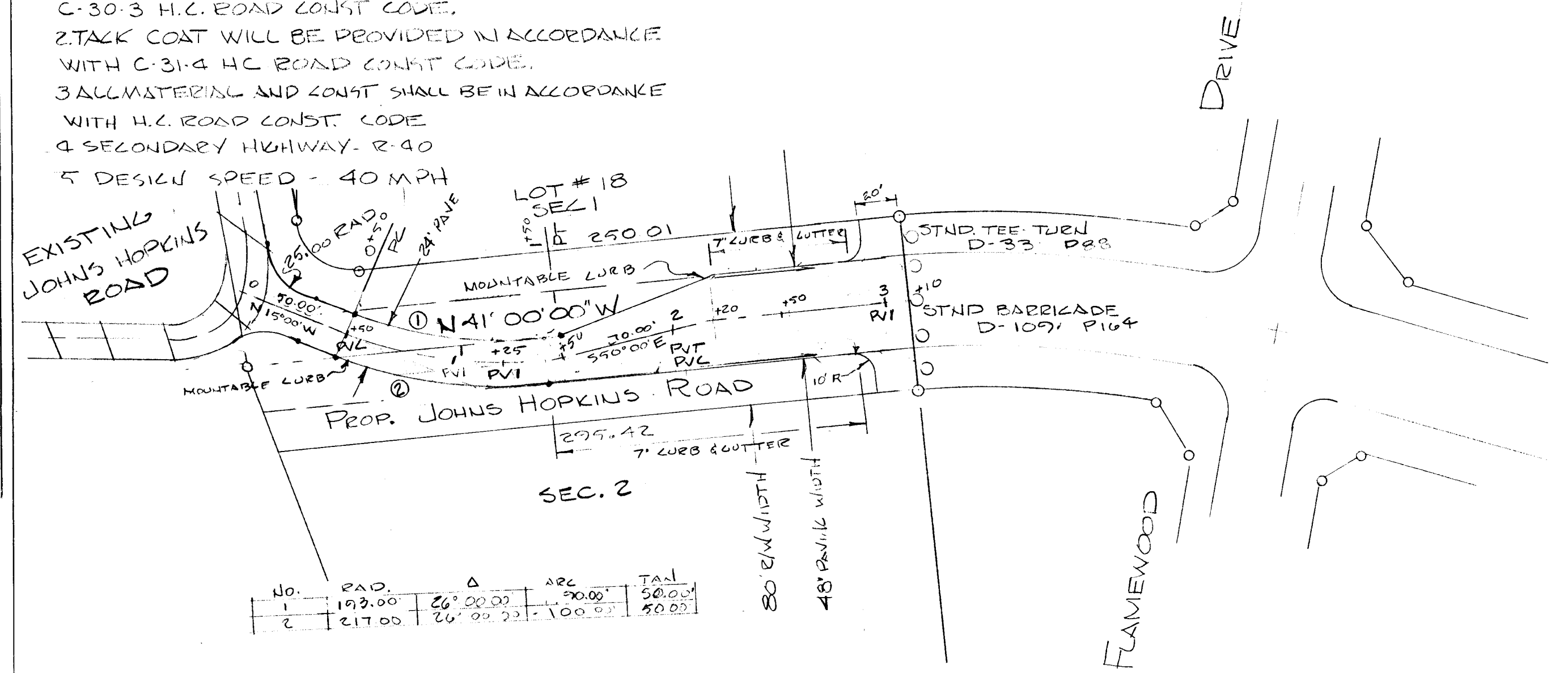
PLAN SCALE = 1" = 50'  
 GRADE ESTABLISHMENT  
 SEC. 1 - FLAMEWOOD  
 EXIST. JOHNS HOPKINS ROAD  
 FIFTH ELECTION DISTRICT  
 SCADDSVILLE  
 HOWARD COUNTY, MARYLAND  
 SCALE: HOR. 1" = 50' VERT. 1" = 5'  
 DATE 10-13-74  
 RENO SURVEYS, INC.  
 DAMASCUS, MD.  
 SHEET 4 OF 6  
 L 75'  
 R 75'  
 DATUM: MEAN SEA LEVEL  
 OWNER: HELEN DEYFOOS III  
 4701 SARDANORE RD.  
 SUMNER, MONT. CO. MD.  
 WASHINGTON DC 20016

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE MAY 5, 1975  
*J. K. Clewley*





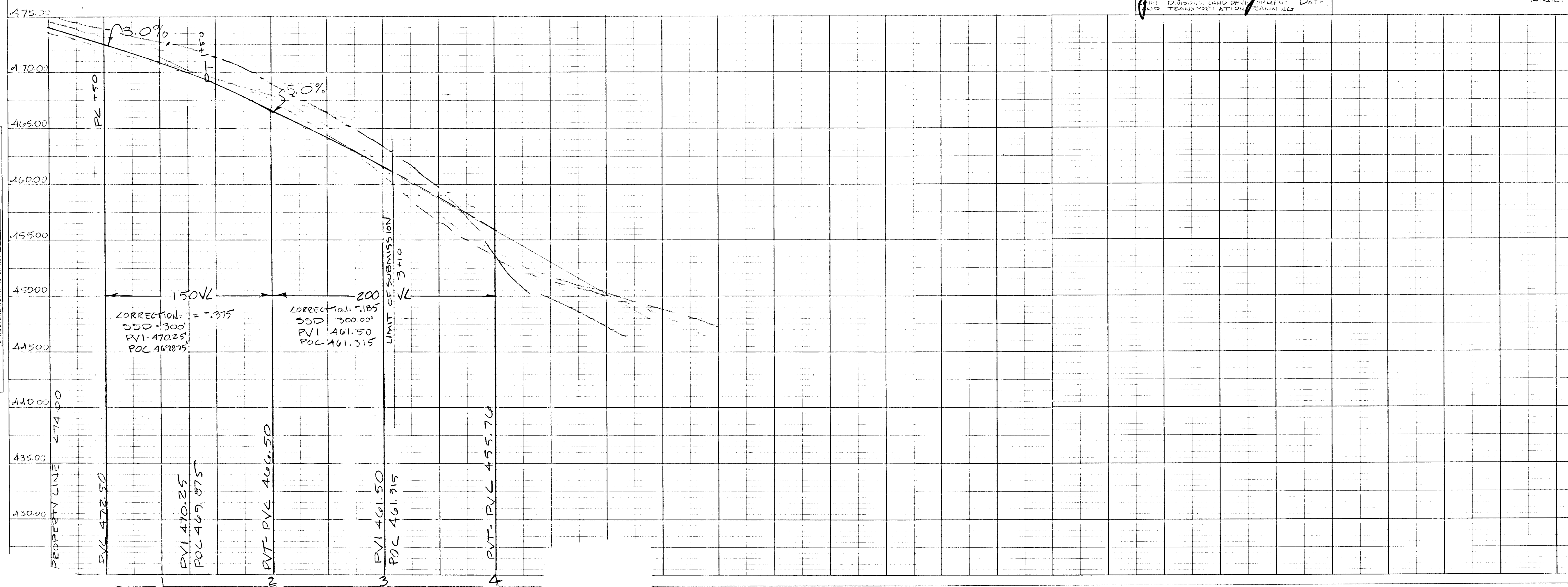
- TYPICAL ROAD SEC. -- D-16**
1. BASE WILL BE IN ACCORDANCE WITH SECTION C-30-3 H.C. ROAD CONST. CODE.
  2. TACK COAT WILL BE PROVIDED IN ACCORDANCE WITH C-31-4 H.C. ROAD CONST. CODE.
  3. ALL MATERIAL AND CONST. SHALL BE IN ACCORDANCE WITH H.C. ROAD CONST. CODE.
  4. SECONDARY HIGHWAY - R-40
  5. DESIGN SPEED - 40 MPH



No.	PAD.	Δ	ARC	TAN
1	173.00	26° 00' 00"	90.00'	50.00'
2	217.00	26° 00' 00"	100.00'	50.00'

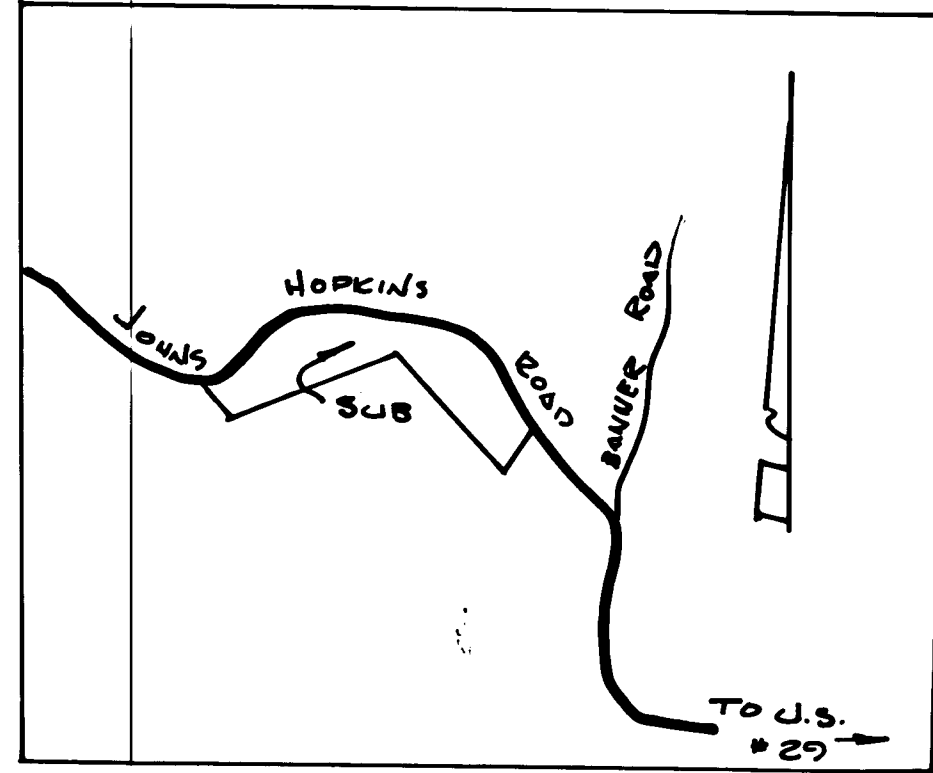
APPROVED: DEPARTMENT OF PUBLIC WORKS  
*S. H. Neeland* 5/19/75  
 CHIEF, BUREAU OF HIGHWAYS DATE  
 APPROVED: DIVISION OF PLANNING & ZONING  
*J. H. Cloutman* 5/19/75  
 CHIEF, DIVISION OF PLANNING & ZONING DATE

**SURVEYOR'S CERTIFICATE**  
 I, HEREBY CERTIFY THAT THE PLAN SHOWN HEREON IS CORRECT AND BASED ON ACTUAL FIELD SURVEYS.  
*Elwood L. Reun*  
 ELWOOD L. REUN  
 P.O. BOX 10, SCAGGSVILLE, MARYLAND  
 MAR. 10, 1975

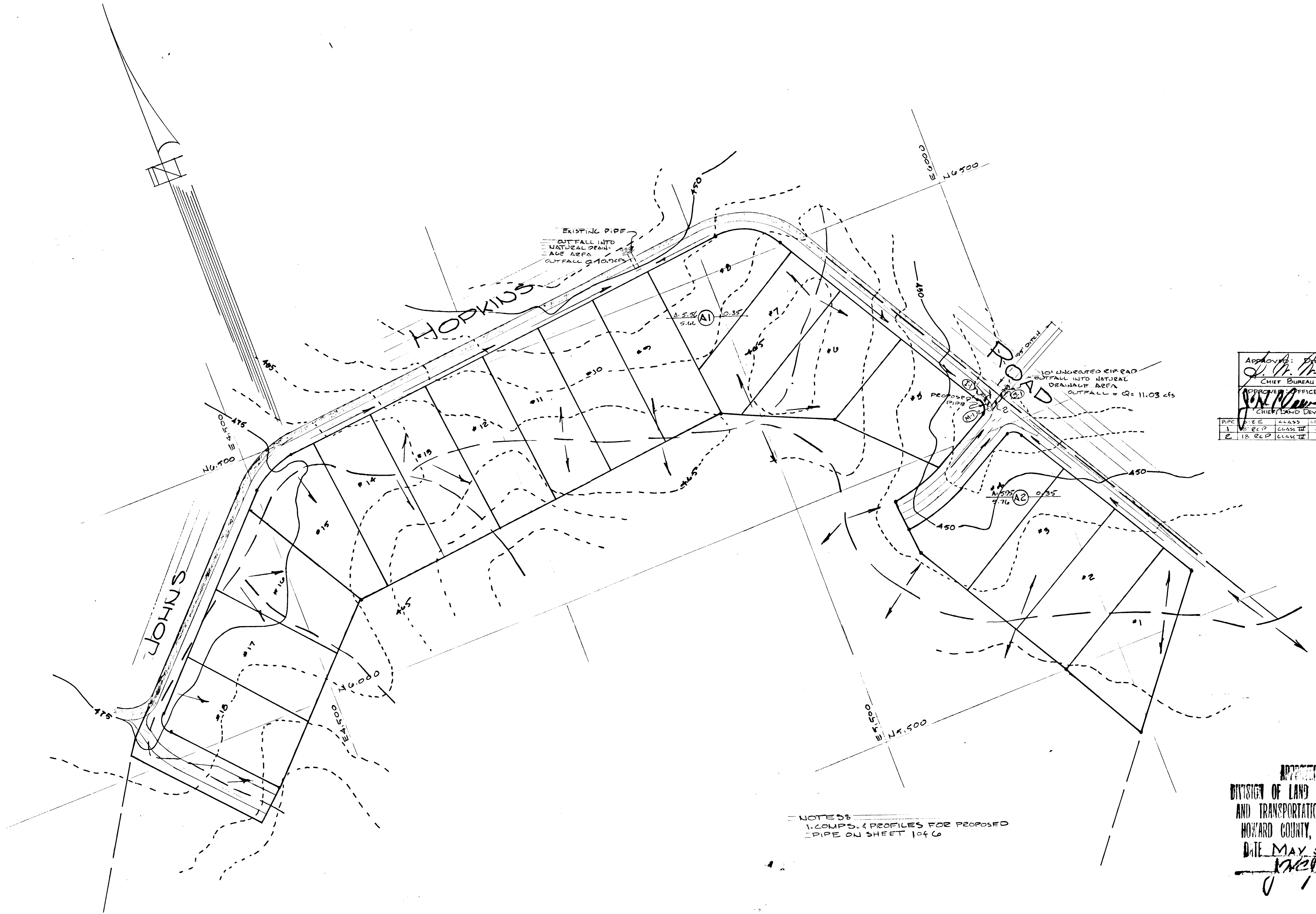


**GRADE ESTABLISHMENT SEC. 1 FLAUEWOOD**  
 Proposed John Hopkins Road Re-align  
 FIFTH ELECTION DISTRICT  
 SCAGGSVILLE  
 HOWARD COUNTY, MARYLAND  
 SCALE: HOR - 1"=60' VERT - 1"=5'  
 DATE: 4-FEB-79  
 REUN SURVEYS INC.  
 DDMASCVS, MD.  
 SHEET 5 of 6  
 2  
 40'  
 40'  
 EXISTING  
 DATUM: MEAN SEA LEVEL  
 OWNER: HENRY DRYFOOS III  
 4701 SULLAMORE RD  
 SUMMER MONT CO.  
 WASHINGTON, D.C. 20016

APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE MAY 5, 1975  
*J. H. Cloutman*



VICINITY MAP  
SCALE: 1" = 600'



APPROVED: DEPT. OF PUBLIC WORKS					
D. M. Ireland 5/19/75					
CHIEF BUREAU OF HIGHWAYS DATE					
APPROVED: OFFICE OF PLANNING & ZONING					
John W. ... 5/15/75					
CHIEF LAND DEV. & TRANS. PLANNING DATE					
PIPE	SIZE	CLASS	LENGTH	DATE	DATE
1	18" R.C.P.	CLASS 20	0.95	1-57	11-28-75
2	18" R.C.P.	CLASS 20	0.95	1-57	11-28-75

NOTES:  
1. COUPS & PROFILES FOR PROPOSED PIPE ON SHEET 1046

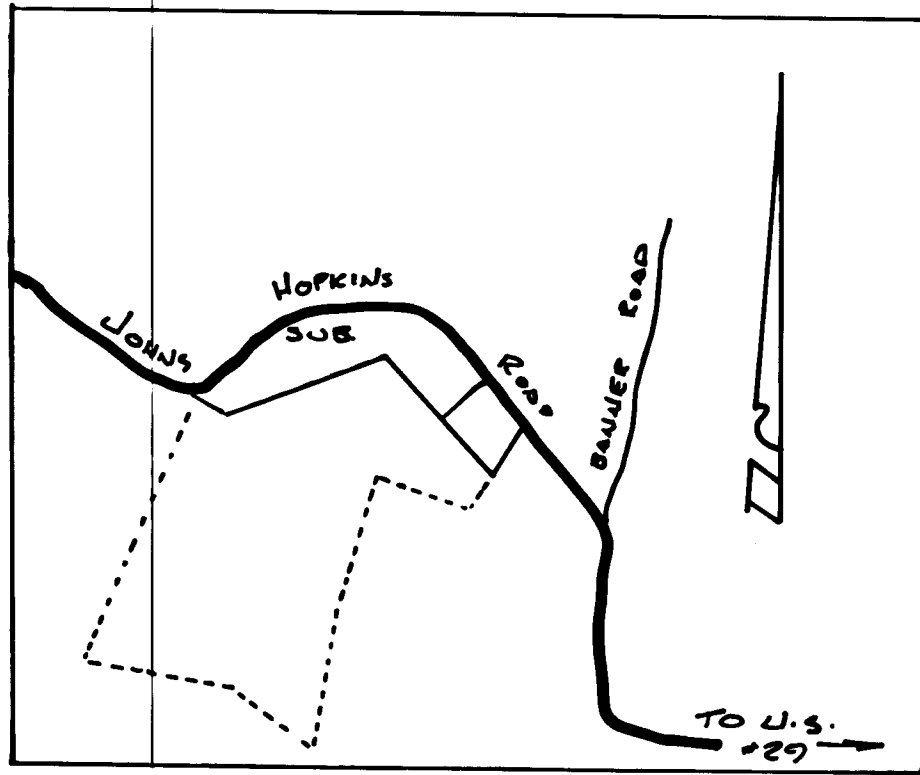
APPROVED  
DIVISION OF LAND DEVELOPMENT  
AND TRANSPORTATION PLANNING  
HOWARD COUNTY, MARYLAND  
DATE MAY 5, 1975  
[Signature]

I, HEREBY CERTIFY THAT THE PLAN SHOWN HEREON IS CORRECT AND BASED ON ACTUAL FIELD SURVEY DATA.

[Signature]  
ELWOOD L. REINHOLD  
R.P.L.S. NO. 3383  
APR 1, 1975  
STATE OF MARYLAND  
LAND SURVEYOR

TAX MAP 41	PARCEL 330	DATE	REVISIONS	REINHOLD SURVEYS, INC. Box 55 DAMASCUS, MD PH# 253-3591	OWNER & DEVELOPER HENRY DEYFOOS III 4701 SARGENT RD. SUMNER, MONTGOMERY CO., MD. WASHINGTON, DC 20016	DRAINAGE STUDY	FLAMEWOOD-SECT 1 FIFTH ELECTION DISTRICT SARGENTVILLE HOWARD COUNTY, MARYLAND	SHEET 6 of 6	DATE: 29-MAR-75 SCALE 1" = 100'
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Vicinity Map  
SCALE 1"=600'

APPROVED: DEPT. OF PUBLIC WORKS  
*J. W. Ireland* 5/17/75  
 CHIEF BUREAU OF HIGHWAYS DATE  
 APPROVED: OFFICE OF PLANNING & ZONING  
 CHIEF LAND DEVELOPMENT DATE

**DEVELOPER'S CERTIFICATION**  
 "I CERTIFY THAT THE 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.  
*Henry Dryfoos III* 5/17/75  
 HENRY DRYFOOS III DATE

**SURVEYOR'S CERTIFICATION**  
 "I CERTIFY THAT THE 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."  
*Elwood L. Penn* 5/17/75  
 ELWOOD L. PENN DATE

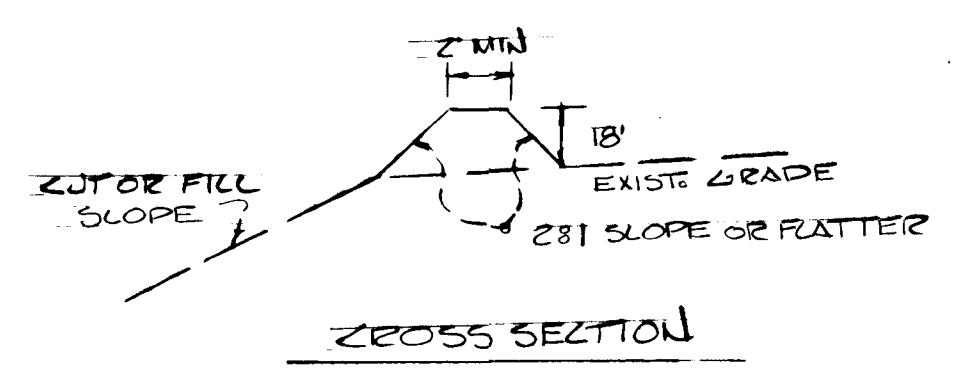
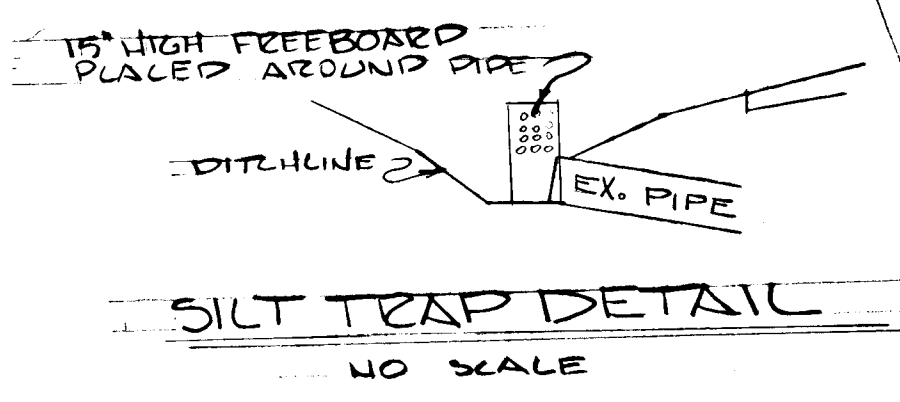
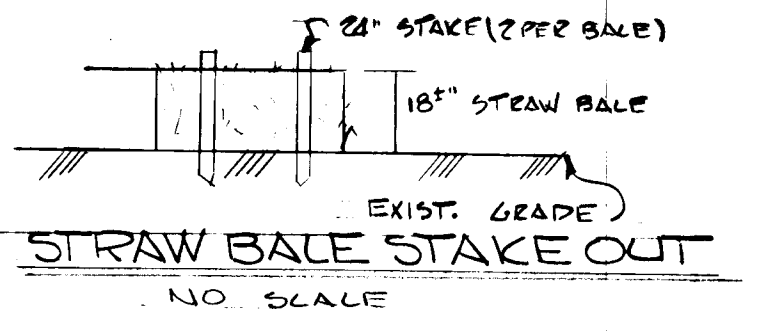
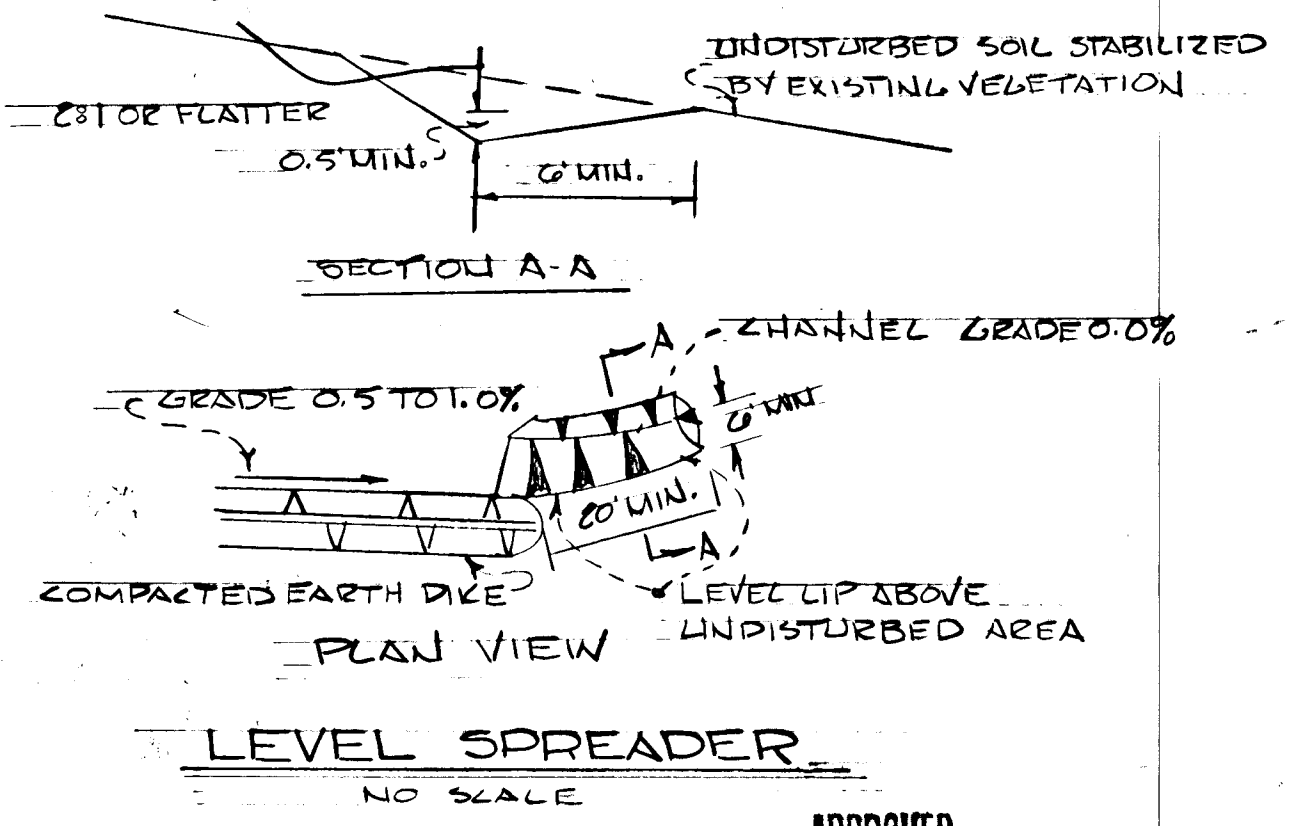
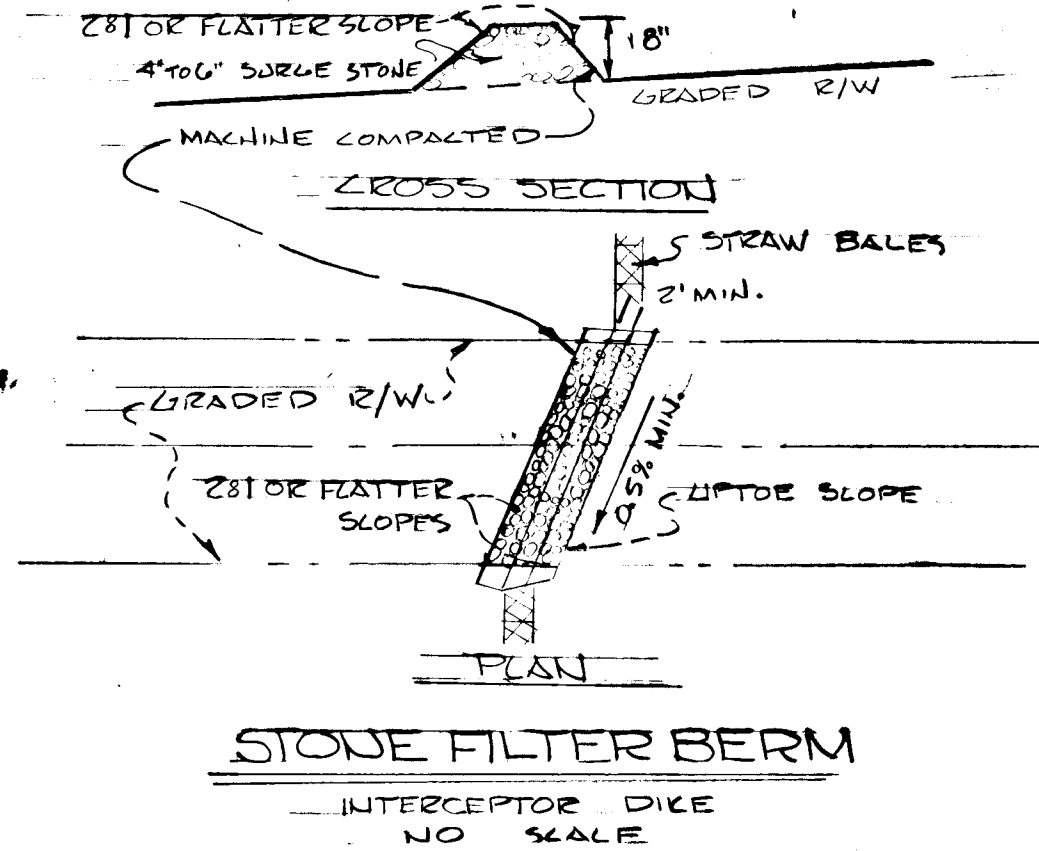
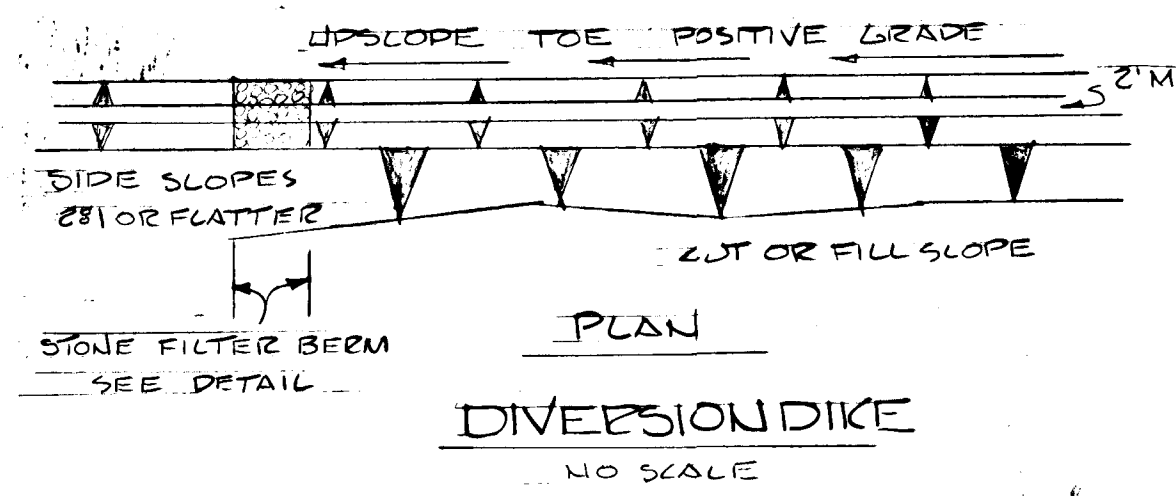
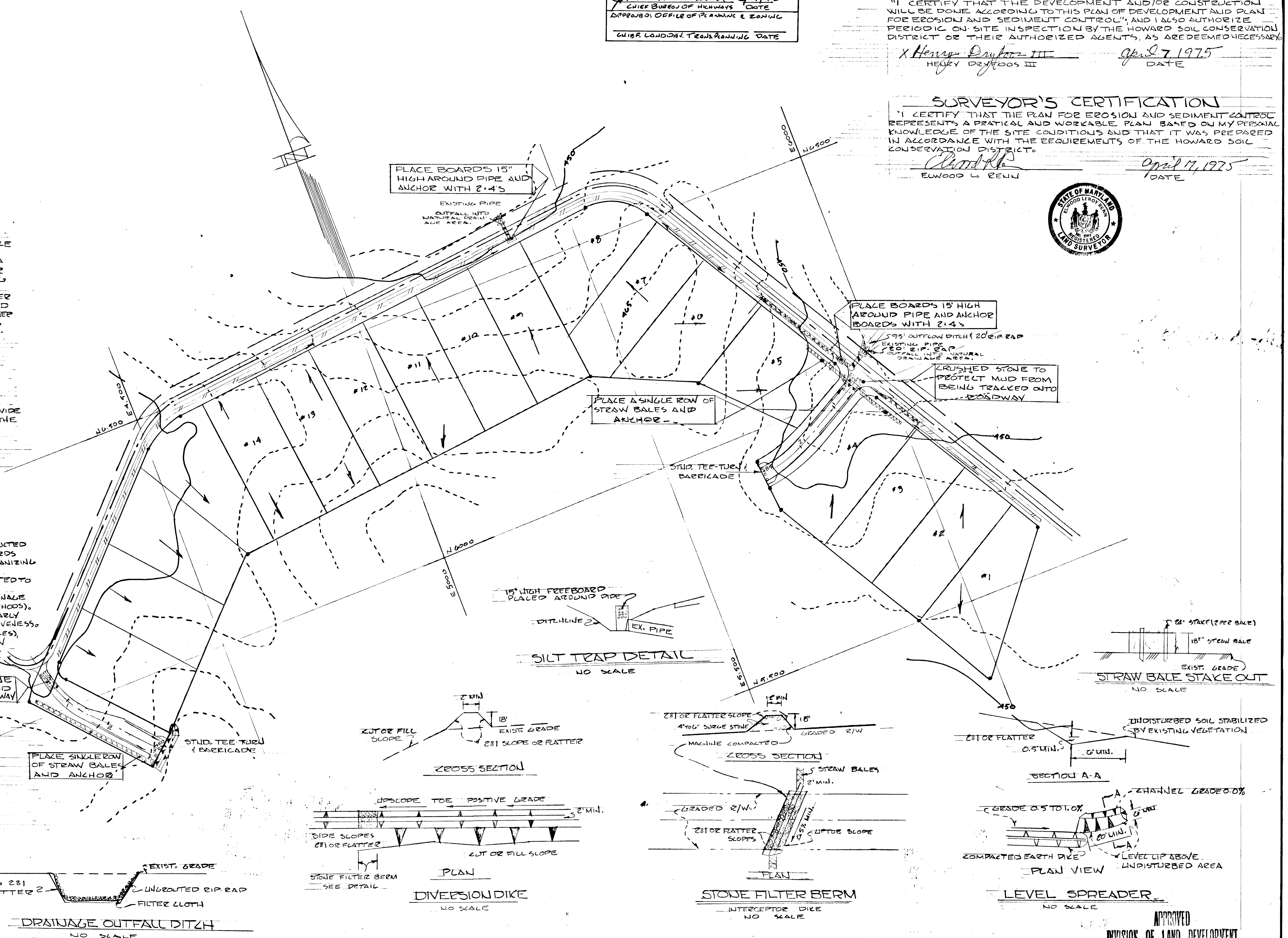


- VEGETATIVE SPECS. & NOTES**
1. DISTURB AS SMALL AN AREA OF PRESENT COVER AS POSSIBLE WHILE PERFORMING GRADING OPERATIONS.
  2. LIMIT DURATION OF EXPOSURE OF BARE EARTH FROM GRADING OR EROSION TO 60 DAYS BY ESTABLISHING TEMPORARY VEGETATION (OR MULCHING IF APPROPRIATE), OR BY COMPLETING PERMANENT SEEDING WITHIN 60 DAYS.
  3. ESTABLISH PERMANENT VEGETATIVE COVER IMMEDIATELY AFTER FINAL GRADING IS COMPLETED. THIS INCLUDES ALL GRADING AFFECTED BY THIS CONSTRUCTION. IF FINAL GRADING IS COMPLETED AT A TIME OTHER THAN THE SEEDING SEASON, A TEMPORARY GROUND COVER SUCH AS MULCHING WILL BE USED TO STABILIZE THE BARE SOIL OR SUPPLEMENTAL WATERING WILL BE REQUIRED.
  4. RECOMMENDED PERMANENT SEED MIXTURES:  
 SEED: 1/2 31 FESCUE AT 2 1/2-3 lbs PER 1,000 sq  
 LIME @ 4-6 lbs, GROUND LIMESTONE PER 1,000 sq  
 FERTILIZER @ 5-10-5 (10-10-10) 23 lbs PER 1,000 sq  
 MULCH @ STRAW AT 75-90 lbs PER 1,000 sq  
 ASPHALT @ 55-100 EQUIVALENT AT 150 GAL PER ACER.
  5. SOD ALL SWALES OVER 2% SLOPE.
  6. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PROVIDE MAINTENANCE UNTIL THE WORK HAS BEEN ACCEPTED/APPROVED BY THE HOWARD COUNTY ROADS BOARD.
  7. DITCH LINING REQUIREMENTS (ALONG ROADS)  
 0-3 1/2% : MULCH & SEED  
 3 1/2-7% : SOD  
 7%-10% : RIPRAP CONCRETE

- SEDIMENT CONTROL NOTES**
1. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH APPLICABLE PUBLISHED STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN URBANIZING AREAS.
  2. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS WILL BE PROTECTED TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS.
  3. ALL SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAINAGE SYSTEM (i.e. THROUGH USE OF SANDBARS, GRAVEL OR OTHER APPLICABLE METHODS).
  4. THE SEDIMENT CONTROL DEVICES WILL BE INSTALLED DURING THE EARLY STAGES OF GRADING AND WILL BE MAINTAINED TO INSURE PROPER EFFECTIVENESS.
  5. ALL DISTURBED AREAS (STREETS, LOTS, AND SEDIMENT CONTROL DEVICES) WILL RECEIVE TEMPORARY STABILIZATION BY SEEDING AND ANCHORED STRAW MULCH, EXCEPT THOSE LOTS THAT WILL BE BUILT ON WITHIN 60 DAYS AFTER GRADING AND THE STREET THAT SERVES THESE LOTS.

- SEQUENCE OF DEVELOPMENT**
1. CONSTRUCTION OF ALL SEDIMENT CONTROL DEVICES BEFORE GRADING STARTS.
  2. COMMENCEMENT OF GRADING OPERATION.
  3. INSTALLATION OF ANY STORM DRAINAGE SYSTEM.
  4. GRADING OUT OF ANY STONE BERMS FOLLOWED BY ACTUAL PAVING.
  5. FINE GRADING OF ANY DITCHLINES (NONE TO BE INSTALLED).
  6. FINAL STABILIZATION OF ALL DISTURBED AREAS AS PER THIS PLAN.
  7. REMOVAL OF ALL EROSION CONTROL DEVICES.

- SITE ANALYSIS**
1. TOT. AREA OF SITE ..... 18.5771 AC.
  2. AREA TO BE GRADED ..... 9.275 AC.
  3. AREA TO BE PAVED ..... 0.4241 AC.
  4. AREA TO BE SEEDED OR SODDED ..... 0.5034 AC.
  5. AREA TO BE LEFT NATURAL ..... 17.6496 AC.



APPROVED  
 DIVISION OF LAND DEVELOPMENT  
 AND TRANSPORTATION PLANNING  
 HOWARD COUNTY, MARYLAND  
 DATE MAY 5, 1975  
*[Signature]*

Tax Map 41	Parcel 336	This Development Plan is Approved For Soil Erosion and Sediment Control By The Howard Co. Soil Conservation District. APPROVED: <i>Robert W. Zischner</i> 5-17-75 DATE HOWARD S.C.D.	REVIEWED FOR HOWARD COUNTY S.C.D. AND MEETS TECHNICAL REQUIREMENTS. <i>James M. Helm</i> 5-9-75 SIGNATURE DATE U.S. SOIL CONSERVATION DISTRICT	DATE	REVISIONS	RENN SURVEYS, INC. Box 55 PARKERSBURG, MD. PH. # 253-3571	OWNER & DEVELOPER HENRY DRYFOOS III 4701 SANAMORE RD. SUMNER, MONTGOMERY CO., MD. WASHINGTON, DC 20014	SEDIMENT & EROSION CONTROL PLAN	FLAMEWOOD - SEC. 1 FIFTH ELECTION DISTRICT SCAGGSVILLE HOWARD COUNTY, MARYLAND	SHEET 1 of 1	DATE: 27-MAR-75 SCALE 1"=100'
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