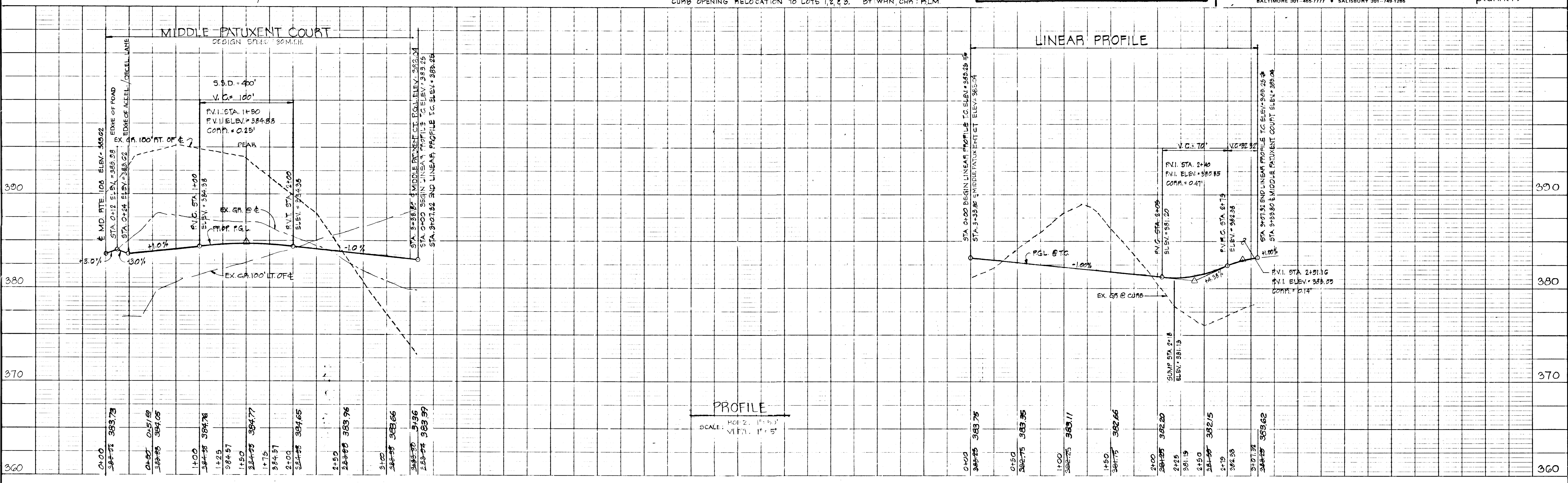
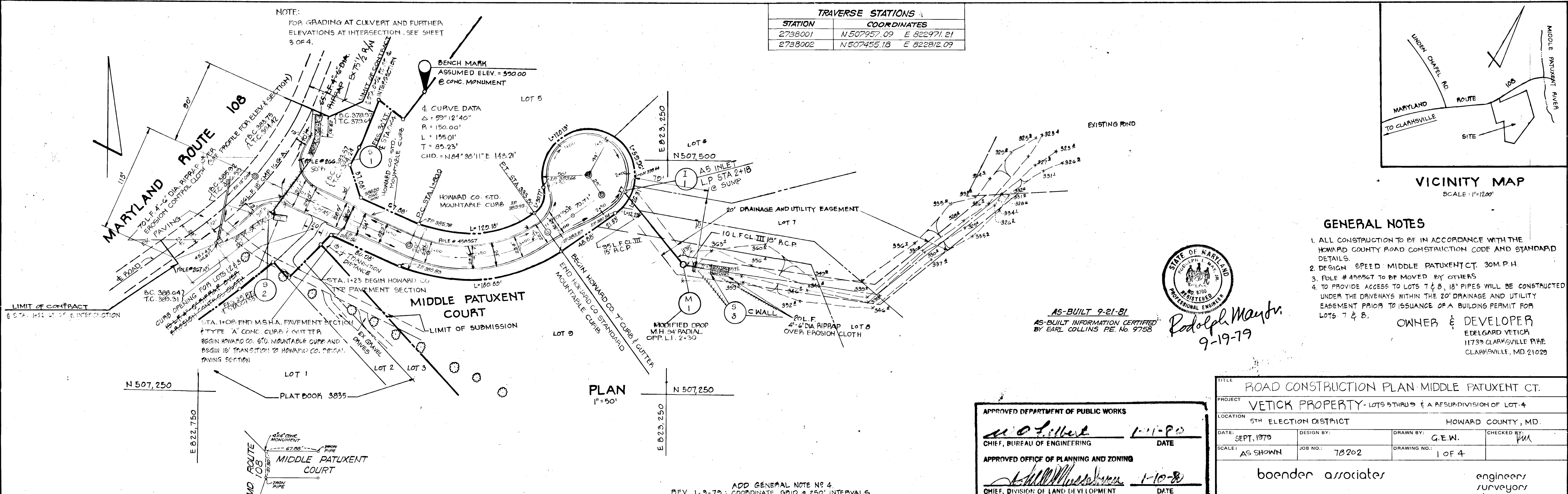
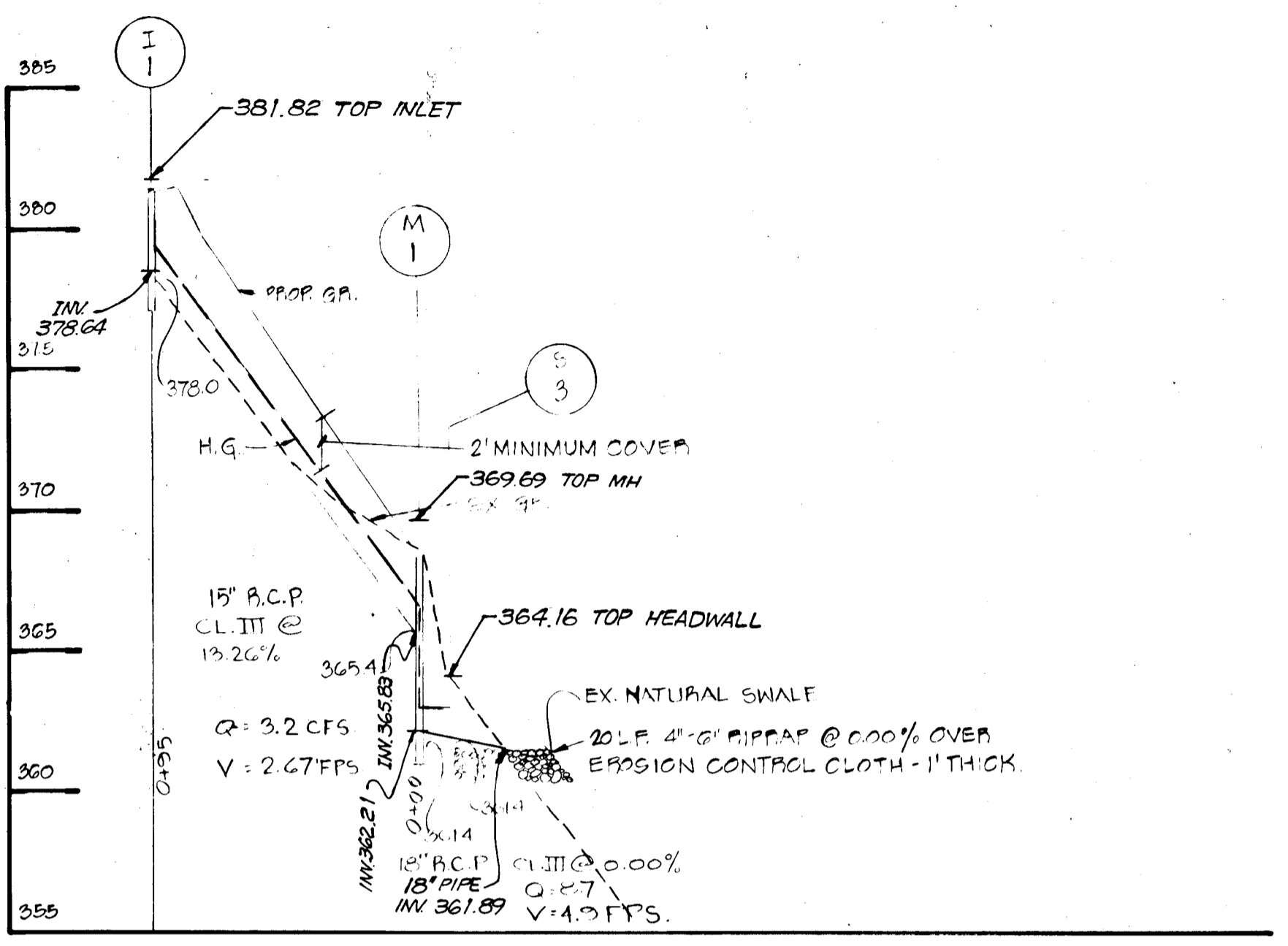


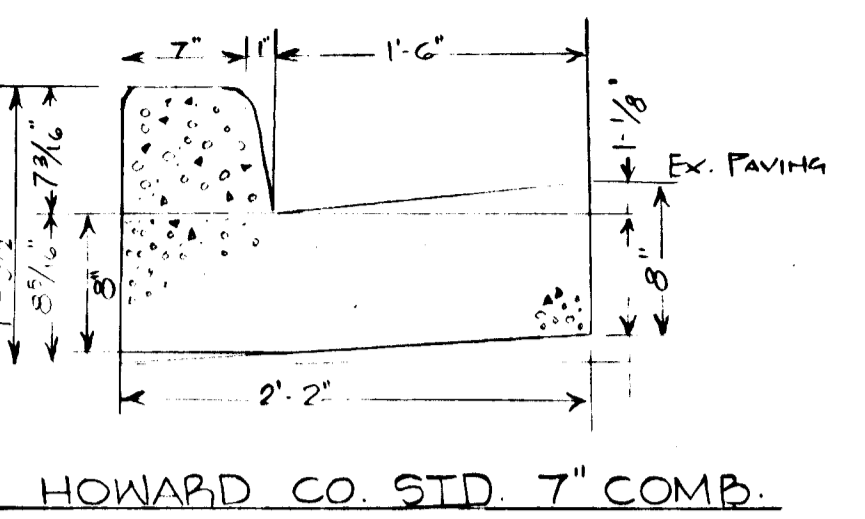
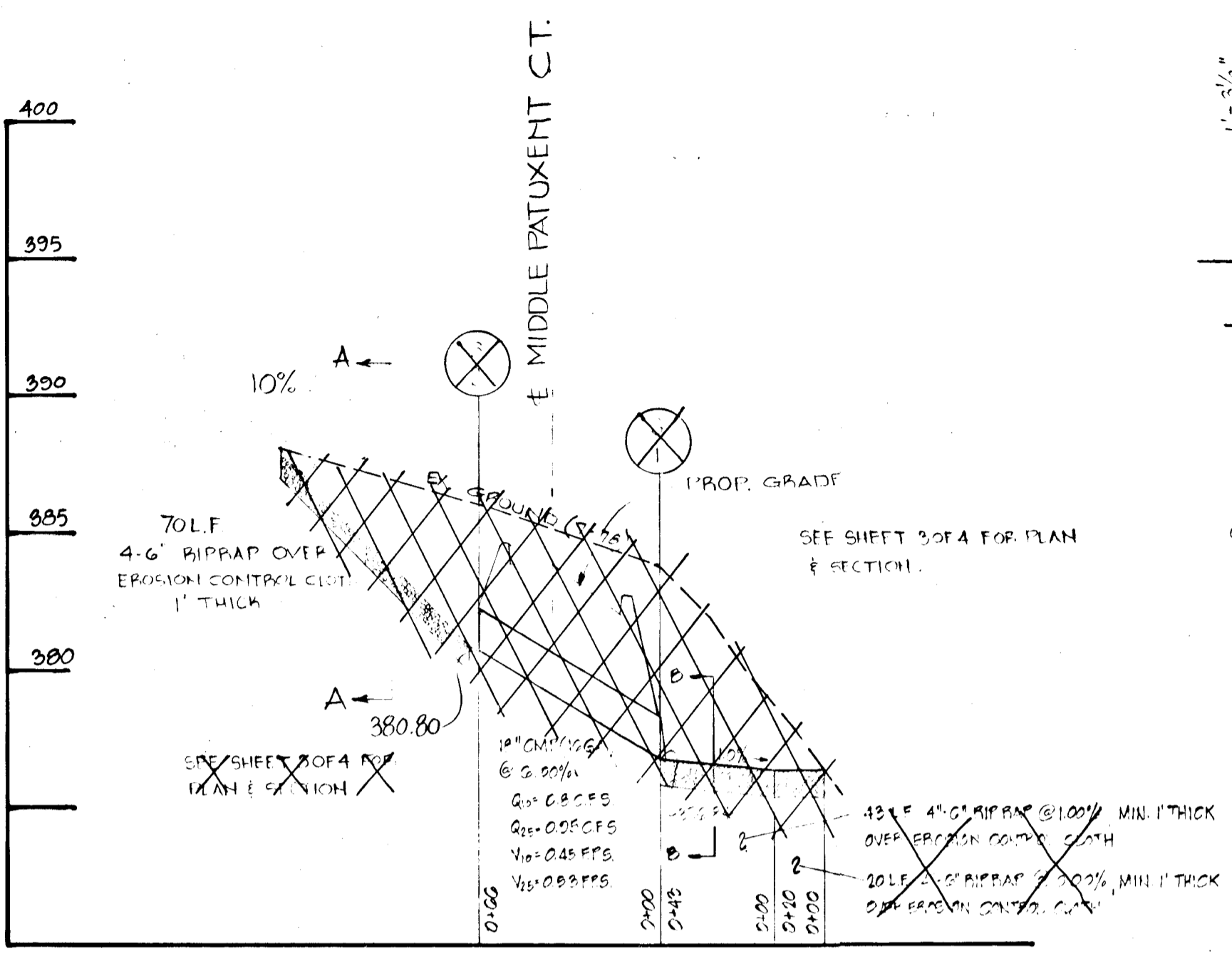
PLAN	DATE
NO.	
BY	
CHECKED	
DATE	

PROFILE	DATE
NO.	
BY	
CHECKED	
DATE	

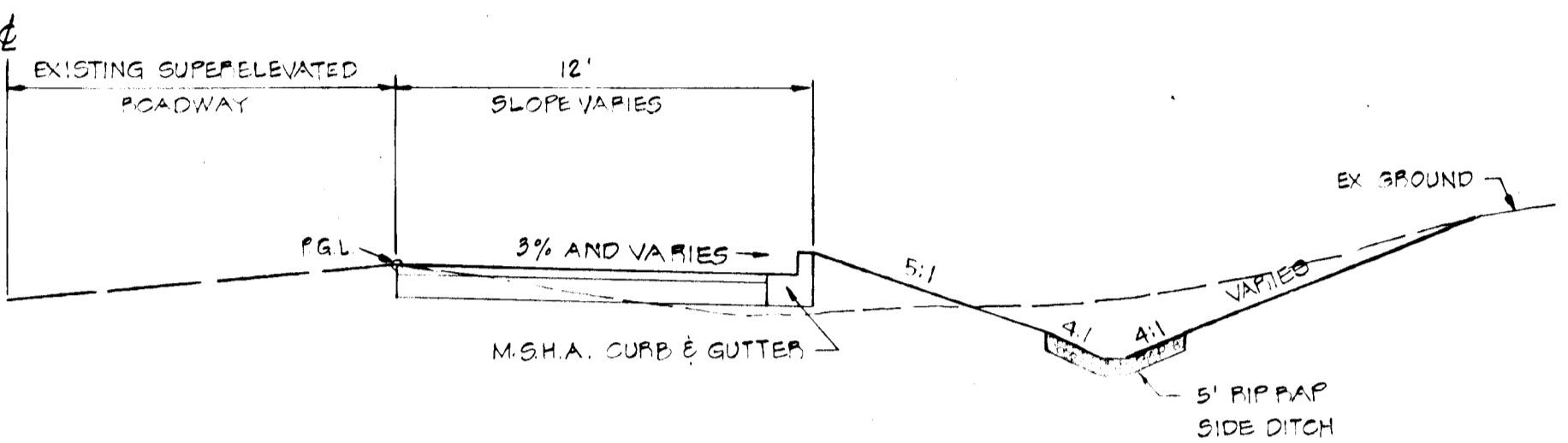




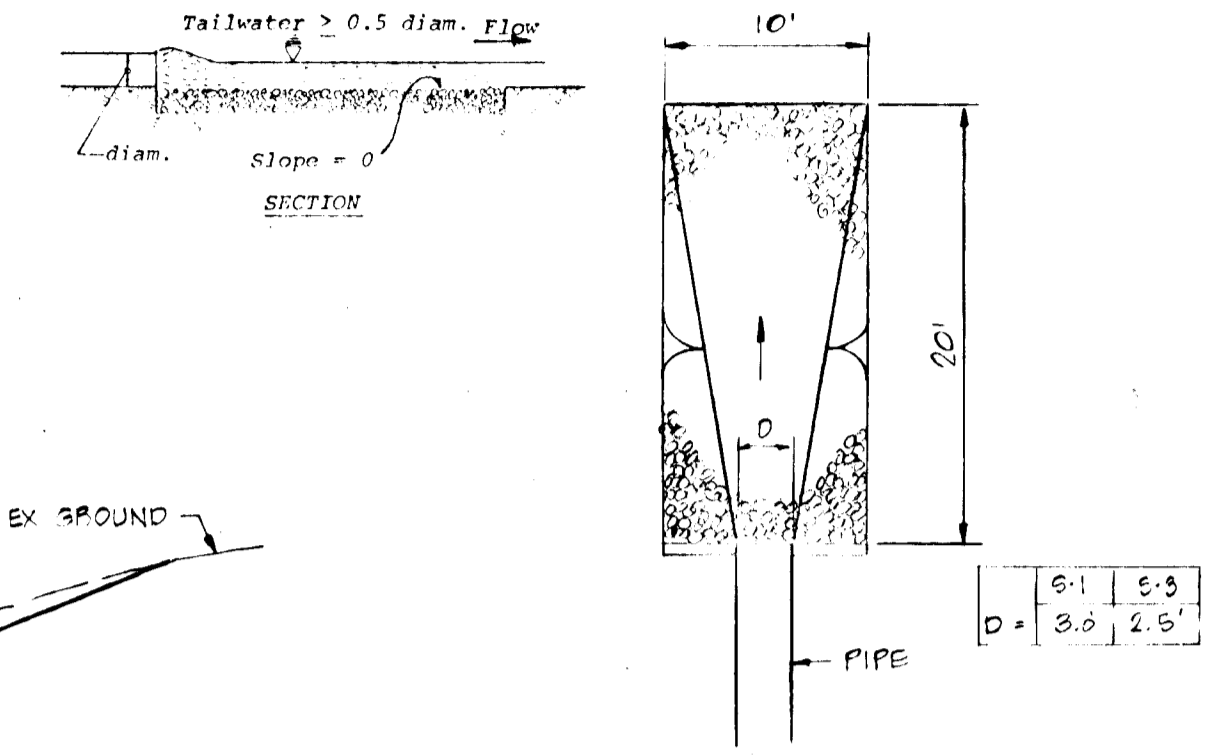
PROFILE SCALE: HORIZ 1"=50'  
VERT 1"=5'



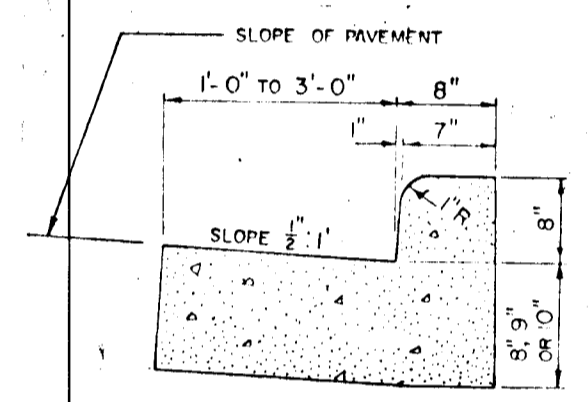
HOWARD CO. STD. 7" COMB. CURB & GUTTER  
HO CO STD DRAWG D-40, PG. 05  
NOT TO SCALE



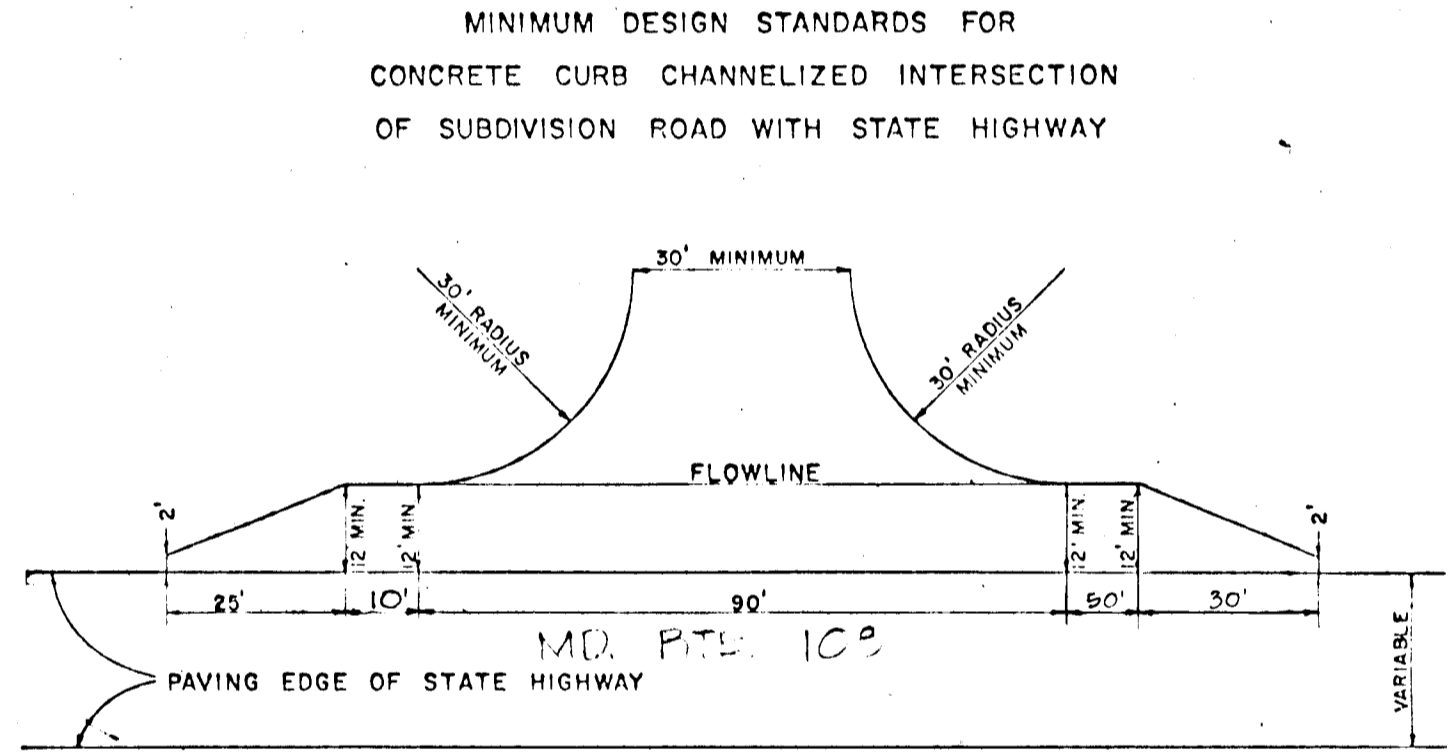
TYPICAL WIDENING SECTION FOR MD. RTE. 108  
NOT TO SCALE



RIP RAP OUTLET PROTECTION  
AT 9-1 AND 9-3 (N.T.S.)



M.S.H.A. STD. CONCRETE CURB AND GUTTER (TYPE "A")  
NOT TO SCALE  
M.S.H.A. STD. 220.02



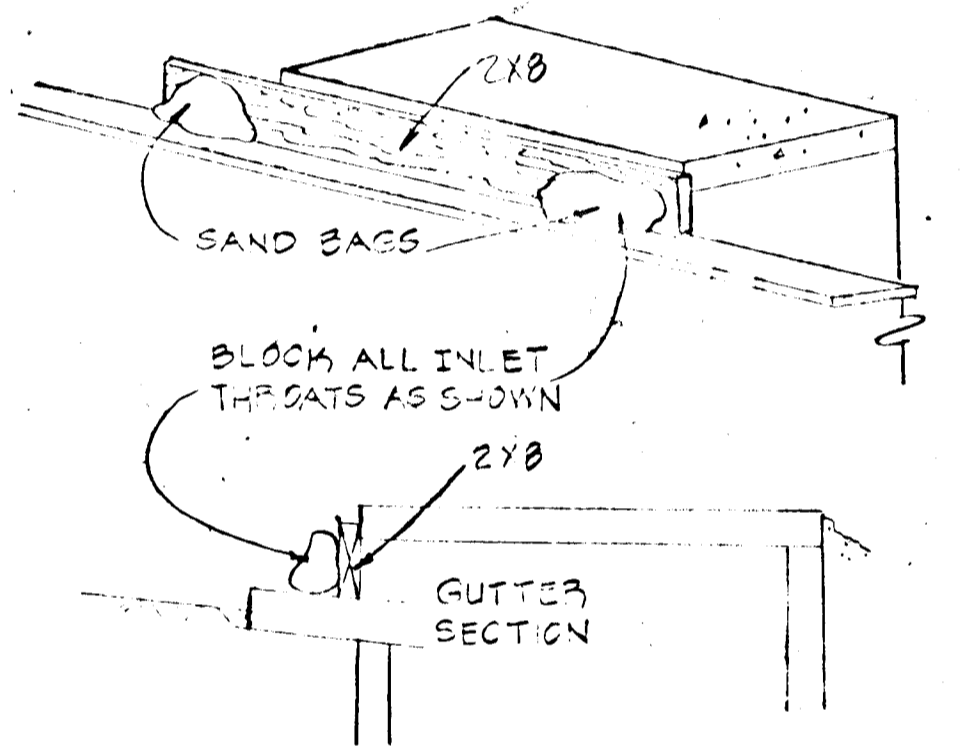
MINIMUM DESIGN STANDARDS FOR CONCRETE CURB CHANNELIZED INTERSECTION OF SUBDIVISION ROAD WITH STATE HIGHWAY

BITUMINOUS CONCRETE SURFACE	1 1/2" BAND C-3
BITUMINOUS CONCRETE BASE	5" (GRAVEL MIX)

CLEARING AND GRADING: ARTICLE C-1  
SURGRADE: ARTICLE C-2  
BASE COURSE: ARTICLE C-33  
SURFACE COURSE: ARTICLE C-31

- TO BE CONSTRUCTED IN ACCORDANCE WITH THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- BASE WILL BE PRIMED IN ACCORDANCE WITH SECTION C-30-3 AS PROVIDED IN THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.
- TACK COAT IS IN ACCORDANCE WITH SECTION C-31-4 OF THE HOWARD CO. ROAD CONSTRUCTION CODE AND STANDARD SPECIFICATIONS.

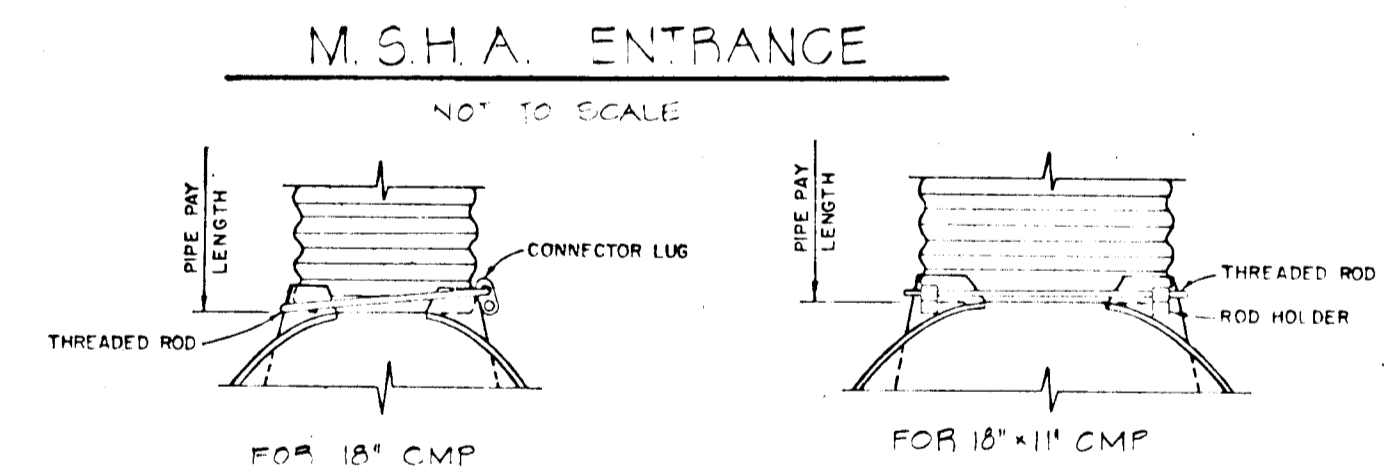
PAVING SPECIFICATION  
NOT TO SCALE  
HO CO STD. D-8, PG. 00



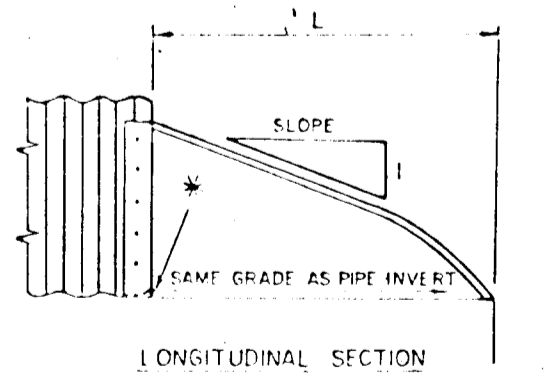
BLOCKING DETAIL FOR A-5 INLET  
NOT TO SCALE

BITUMINOUS CONC. SURFACE	2" M.S.H.A. SPEC B
BITUMINOUS CONC. BASE	6" M.S.H.A. SPEC B

BITUMINOUS CONCRETE BASE TO BE PLACED IN TWO 3" LIFTS  
M.S.H.A.  
TYPICAL PAVING SECTION  
NOT TO SCALE



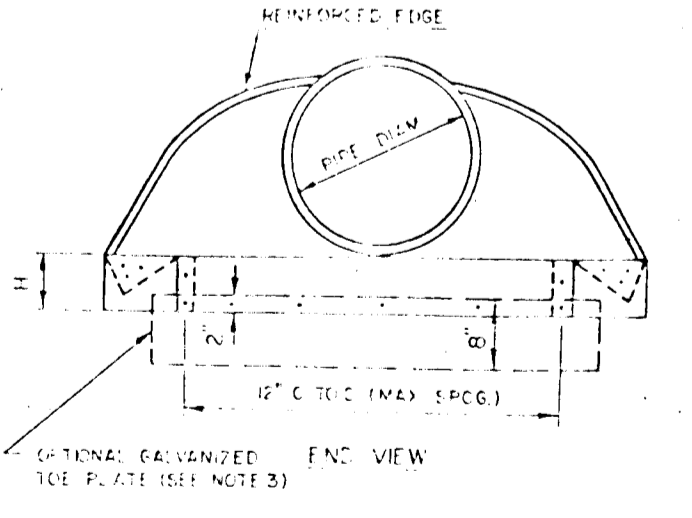
M.S.H.A. ENTRANCE  
NOT TO SCALE  
STD CONNECTIONS FOR METAL END SECTIONS  
NOT TO SCALE  
M.S.H.A. STD. 370.11



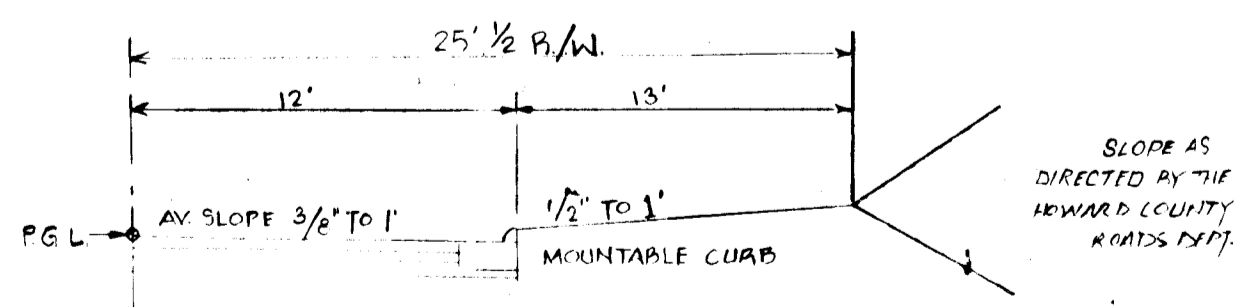
LONGITUDINAL SECTION  
\* INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON CONSTRUCTION PLANS.

PIPE DIAM.	GA.	A	B	H	L	W	MIN. SLOPE	NO. OF
18"	12	8"	10"	6"	31"	36"	2 1/2"	10

TYPICAL STD METAL END SECTION-S1 & S2  
NOT TO SCALE  
M.S.H.A. STD. 370.01



HOWARD CO. STANDARD MOUNTABLE CURB  
HO CO STD DRAWG D-39, PG. 04  
NOT TO SCALE



TYPICAL HALF SECTION  
MIDDLE PATUXENT COURTY  
NOT TO SCALE  
HO CO STD. D-8, PG. 01  
ZONING & EROSION PREVENTION DEPT.  
EQUIMENTAL DEPT.

NO.	DESCRIPTION	INVERT ELEV.	TOP ELEV.	REMARKS
D-1	STD METAL END SECTION	378.00	381.82	M.S.H.A. STD. 370.01. SEE DETAIL THE SH.
D-2	STD METAL END SECTION	380.89	384.71	M.S.H.A. STD. 370.01. SEE DETAIL THE SH.
D-3	STD 10" WALL	381.82	385.65	HO CO STD. D-10, PG. 01
D-4		381.82	385.65	
D-5		381.82	385.65	
D-6		381.82	385.65	
D-7		381.82	385.65	
D-8		381.82	385.65	
D-9		381.82	385.65	
D-10		381.82	385.65	

DEVELOPER'S CERTIFICATE  
I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL, AND I ALSO HEREBY REQUEST THE SOIL CONSERVATION DISTRICT OF THE HOWARD COUNTY, MARYLAND, TO REVIEW THIS PLAN AND DETERMINE NECESSARY DEVIATION FROM THIS PLAN WILL NOT BE PERMITTED UNLESS APPROVED BY THE SOIL CONSERVATION DISTRICT.

*Edward J. Vetch* 9-17-79  
REGISTERED PROFESSIONAL ENGINEER

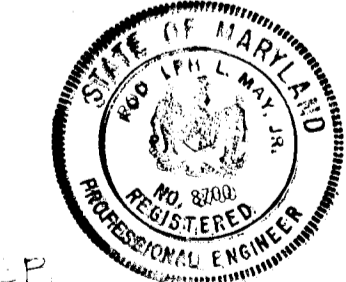
*Rodolph May Jr.* 9-19-79  
REGISTERED PROFESSIONAL ENGINEER

APPROVED BY DEPARTMENT OF PUBLIC WORKS  
*W. J. Pickett* 1-11-80  
CHIEF, BUREAU OF ENGINEERING

APPROVED OFFICE OF PLANNING AND ZONING  
*James M. Helm* 1-8-80  
CHIEF, BUREAU OF PLANNING AND ZONING

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.  
*James M. Helm* 1-8-80  
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*William T. Rowe* 1-8-80  
HOWARD COUNTY SOIL CONSERVATION DISTRICT

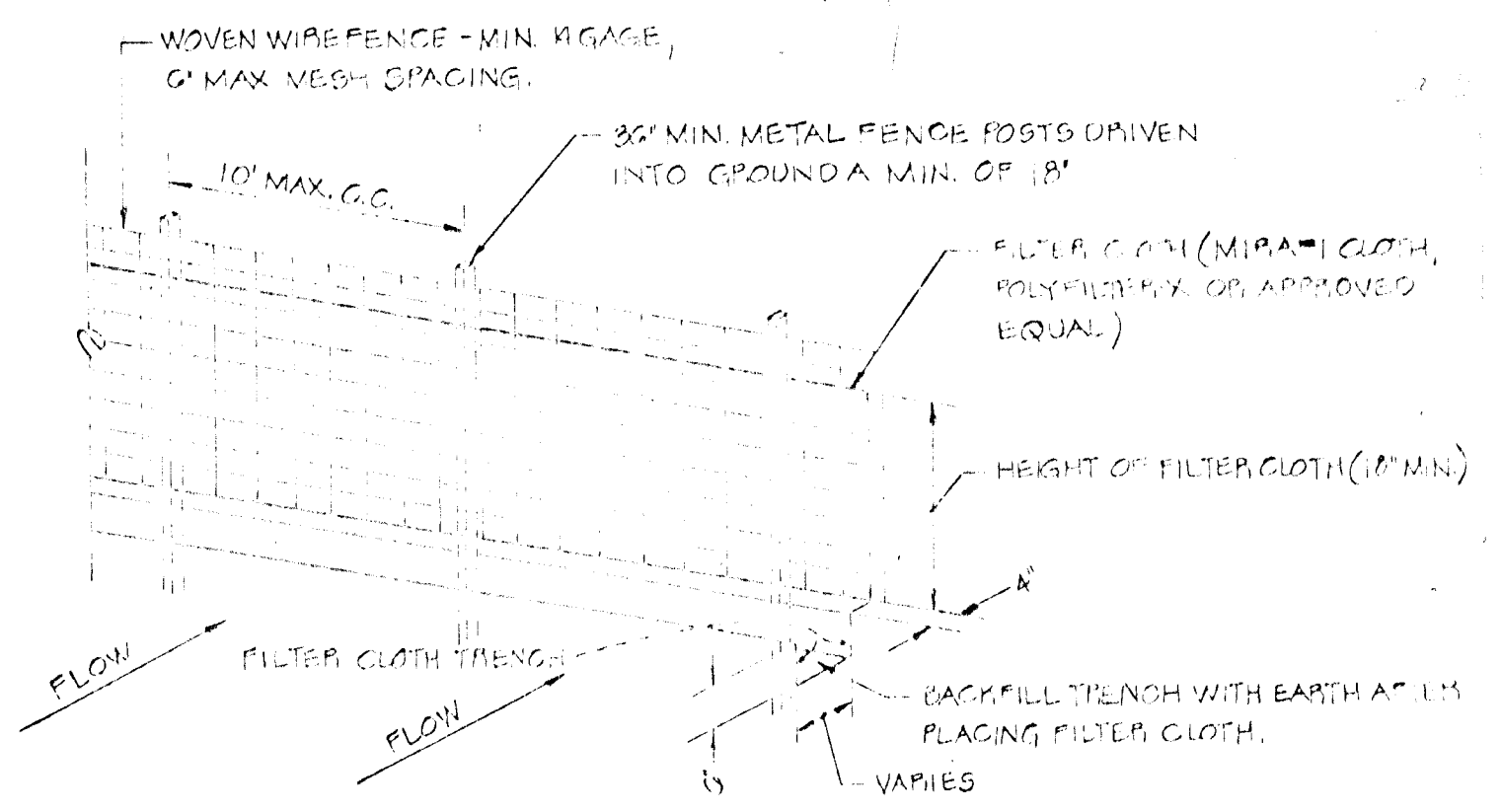


AS-BUILT 9-21-81  
AS-BUILT INFORMATION CERTIFIED BY EARL COLLINS, P.E. No. 9758

TITLE: STORM DRAIN PROFILES & DETAILS & ROAD DETAILS			
PROJECT: V-TICK PROPERTY - 1005 THURS. LA. REGRADATION OF LOT 4			
LOCATION: 5TH ELECTION DISTRICT	HOWARD COUNTY, MD.		
DATE: SEPT. 1979	DESIGN BY: P.L.M.	DRAWN BY: J.J.P./B.E.W.	CHECKED BY: P.L.M.
SCALE: AS SHOWN	JOB NO.: 78202	DRAWING NO.: 2 OF 4	

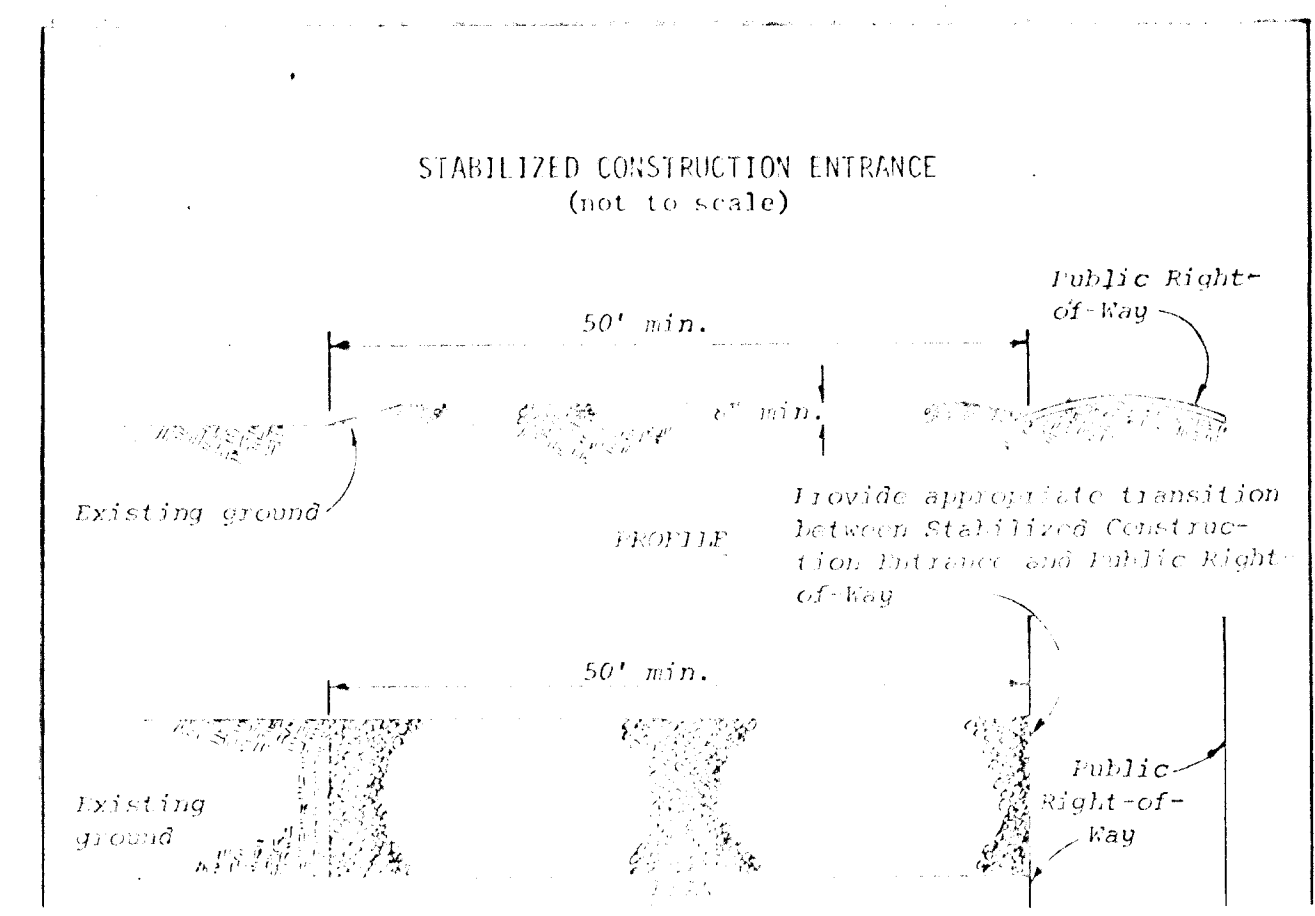
boender associates  
SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING  
ELLCOTT CITY, MARYLAND 21043  
BALTIMORE 301-448-3733 SALISBURY 301-749-1286

engineers/surveyors/planners



- NOTES:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS BY WIRE TIES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE BY WIRE TIES SPACED OVER 24" x 24".
  - 5/8" FENCE TO BE PLACED IN LIEU OF STRAP BALES AND/OR DIVERSION DIKS AT THE OPTION OF THE DEVELOPER.
  - MAXIMUM DRAINAGE AREA = 3 AC.

**SILT FENCE DETAIL**  
NOT TO SCALE



**STABILIZED CONSTRUCTION ENTRANCE (DETAIL) NTS**

- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PERMIT
  - NOTIFY HO CO. S.C.S. 24 HRS. PRIOR TO WORK
  - INSTALL TEMP. SEDIMENT CONTROL MEASURES
  - ROUGH GRADE SITE
  - INSTALL DRAINS. BLOCK UPSTREAM END OF PIPE DAILY. BLOCK 1-1
  - STABILIZE ROADWAY WITH BASE COURSE & GRADED AREA WITH TEMP. OR PERMANENT SEEDING. INSTALL RIPRAP OPEN 1-1
  - NOTIFY HO CO. S.C.S. PRIOR TO REMOVING TEMP. SEDIMENT CONTROL MEASURES.

**SITE ANALYSIS**

AREA OF SITE: 17.23 AC.  
AREA UNDISTURBED: 19.23 AC.  
AREA DISTURBED: 1.70 AC.  
AREA PAVED: 0.20 AC.  
AREA REVEGETATED: 1.4 AC.

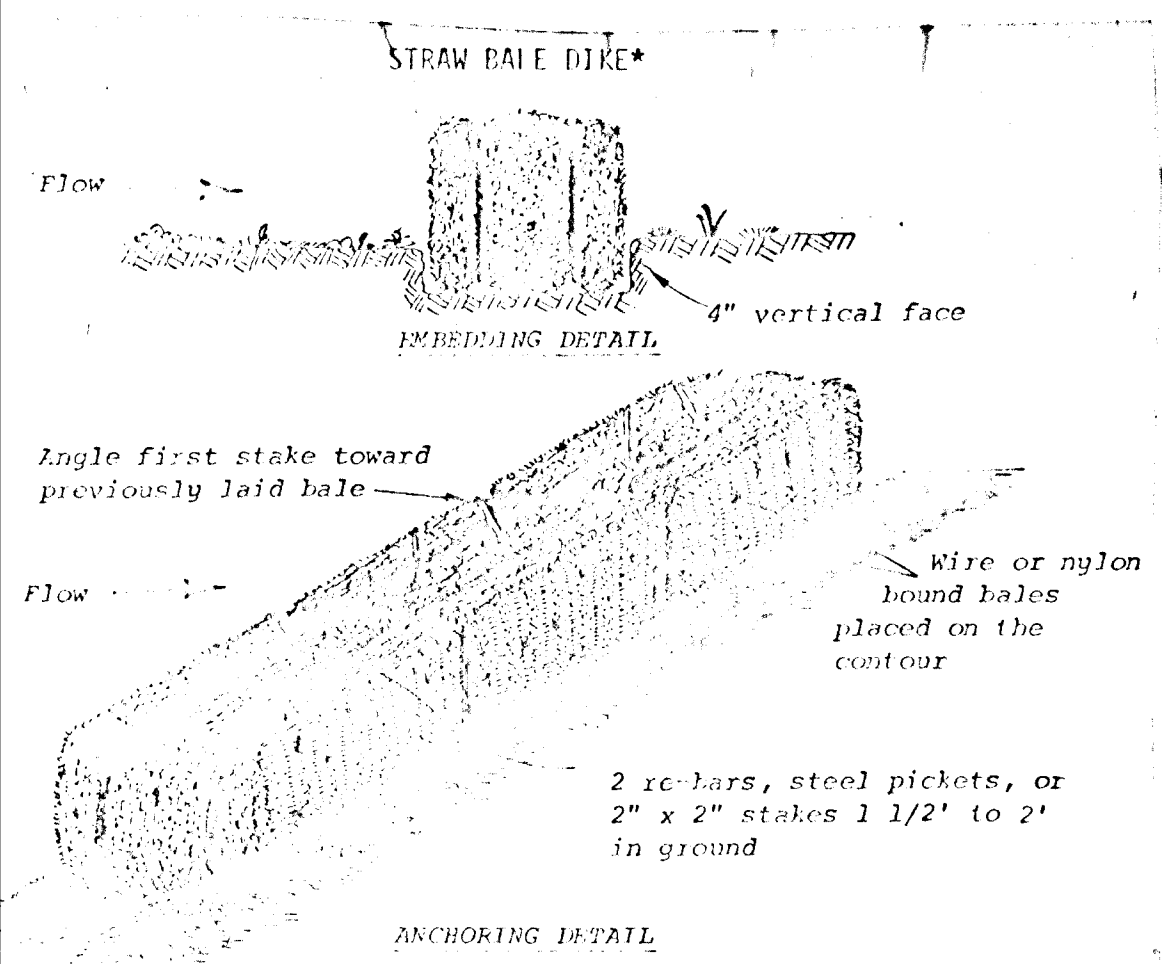
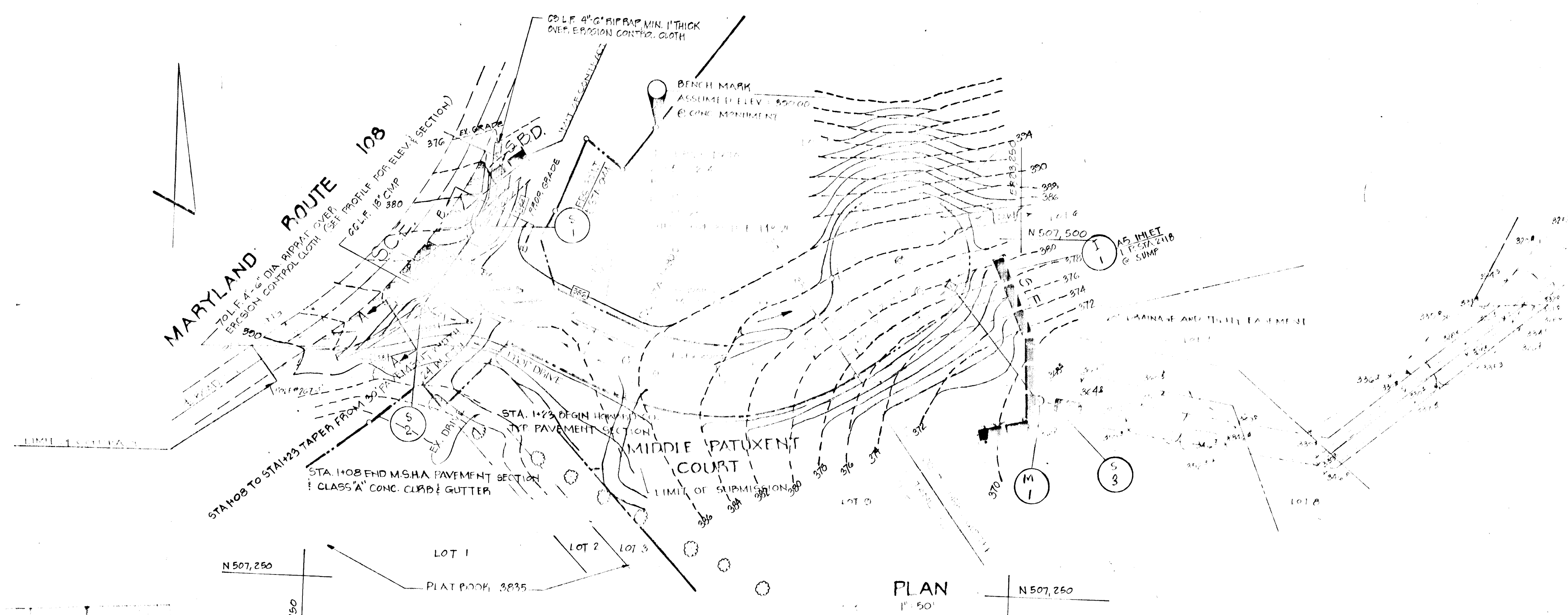
ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED WITH "STANDARDS"  
SPECIFIC TO THE DEVELOPING AREAS  
IN THE DISTRICT. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE AREA IS REVEGETATED TO THE SATISFACTION OF THE DISTRICT. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE AREA IS REVEGETATED TO THE SATISFACTION OF THE DISTRICT. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE AREA IS REVEGETATED TO THE SATISFACTION OF THE DISTRICT. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE AREA IS REVEGETATED TO THE SATISFACTION OF THE DISTRICT.

APPROVED DEPARTMENT OF PUBLIC WORKS  
*Wolfe* 1-11-80

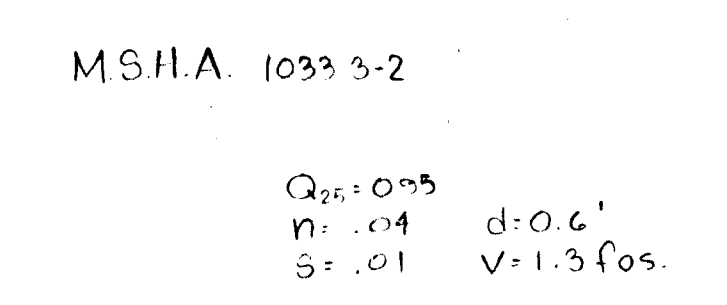
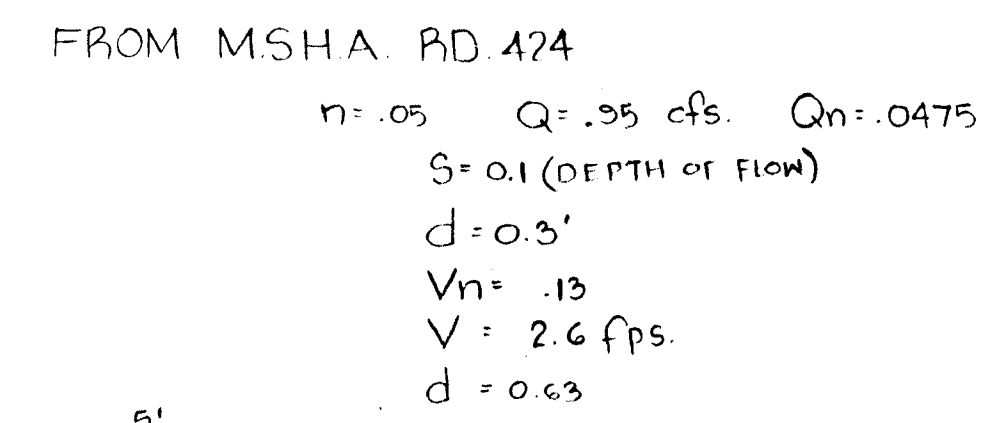
APPROVED OFFICE OF PLANNING AND ZONING  
*James M. Holden* 1-11-80

APPROVED HOWARD SOIL AND WATER CONSERVATION DISTRICT  
*James M. Holden* 1-8-80

APPROVED HOWARD SOIL AND WATER CONSERVATION DISTRICT  
*William T. Rowe* 1-8-80



- Bales shall be placed in a row with ends tightly abutting the adjacent bales.
- Each bale shall be embedded in the soil a minimum of 4".
- Bales shall be securely anchored in place by stakes or re-bars driven through the bales. The first stake in each bale shall be angled toward previously laid bale to force bales together.
- Inspection shall be frequent and repair or replacement shall be made promptly as needed.
- Bales shall be removed when they have served their usefulness so as not to block or impede storm flow or drainage.



APPROVED DEPARTMENT OF PUBLIC WORKS  
*Wolfe* 1-11-80

APPROVED OFFICE OF PLANNING AND ZONING  
*James M. Holden* 1-11-80

APPROVED HOWARD SOIL AND WATER CONSERVATION DISTRICT  
*James M. Holden* 1-8-80

APPROVED HOWARD SOIL AND WATER CONSERVATION DISTRICT  
*William T. Rowe* 1-8-80

**DEVELOPER'S CERTIFICATE**

I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE 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 OF THEIR AUTHORIZED AGENTS. IF ANY VIOLATION OR DEVIATION FROM THIS PLAN WILL NOT BE MADE UNLESS AUTHORIZED BY THE HOWARD SOIL CONSERVATION DISTRICT.

*Edgard H. Vetch* 9-19-79

DATE: 9-19-79

**ENGINEER'S CERTIFICATE**

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL PRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON PERSONAL FIELD AND LABORATORY TESTS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

*Rodolph May Jr* 9-19-79

DATE: 9-19-79

PROFESSIONAL ENGINEER

STATE OF MARYLAND  
PROFESSIONAL ENGINEER

STATE OF MARYLAND  
PROFESSIONAL ENGINEER

*Edgard H. Vetch* 9-19-79

PROJECT: SEDIMENT CONTROL, ENTRANCE GRADING AND PAVING PLAN

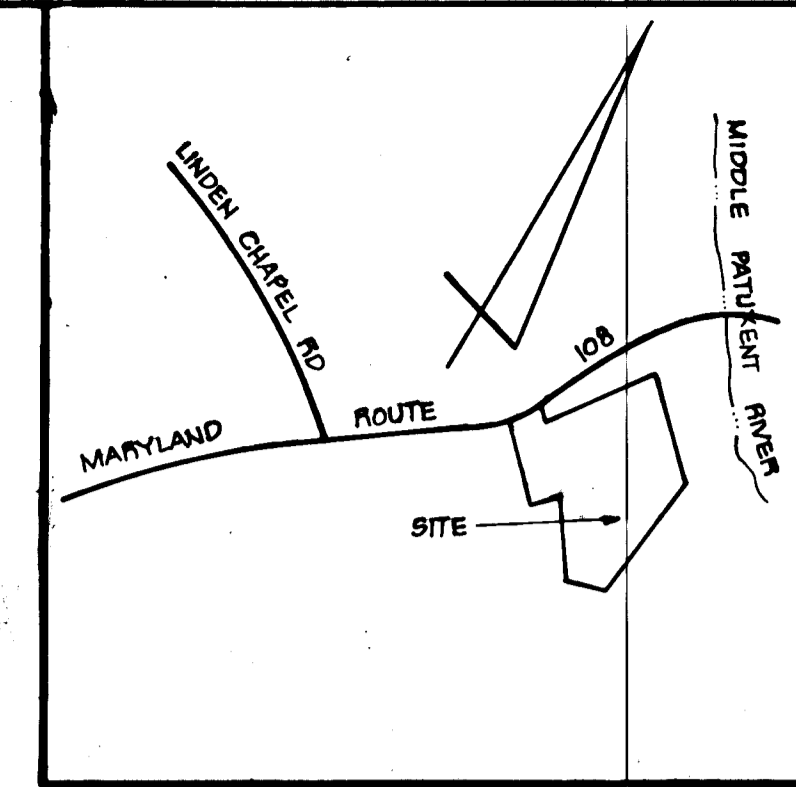
LOCATION: VETCH, PROPERTY, LOTS 3 THRU 5 EA. RESUBDIVISION OF LOT 4

DATE: 9-19-79 DESIGN BY: P.E.L.M. DRAWN BY: C.F.L.N. CHECKED BY: P.M.

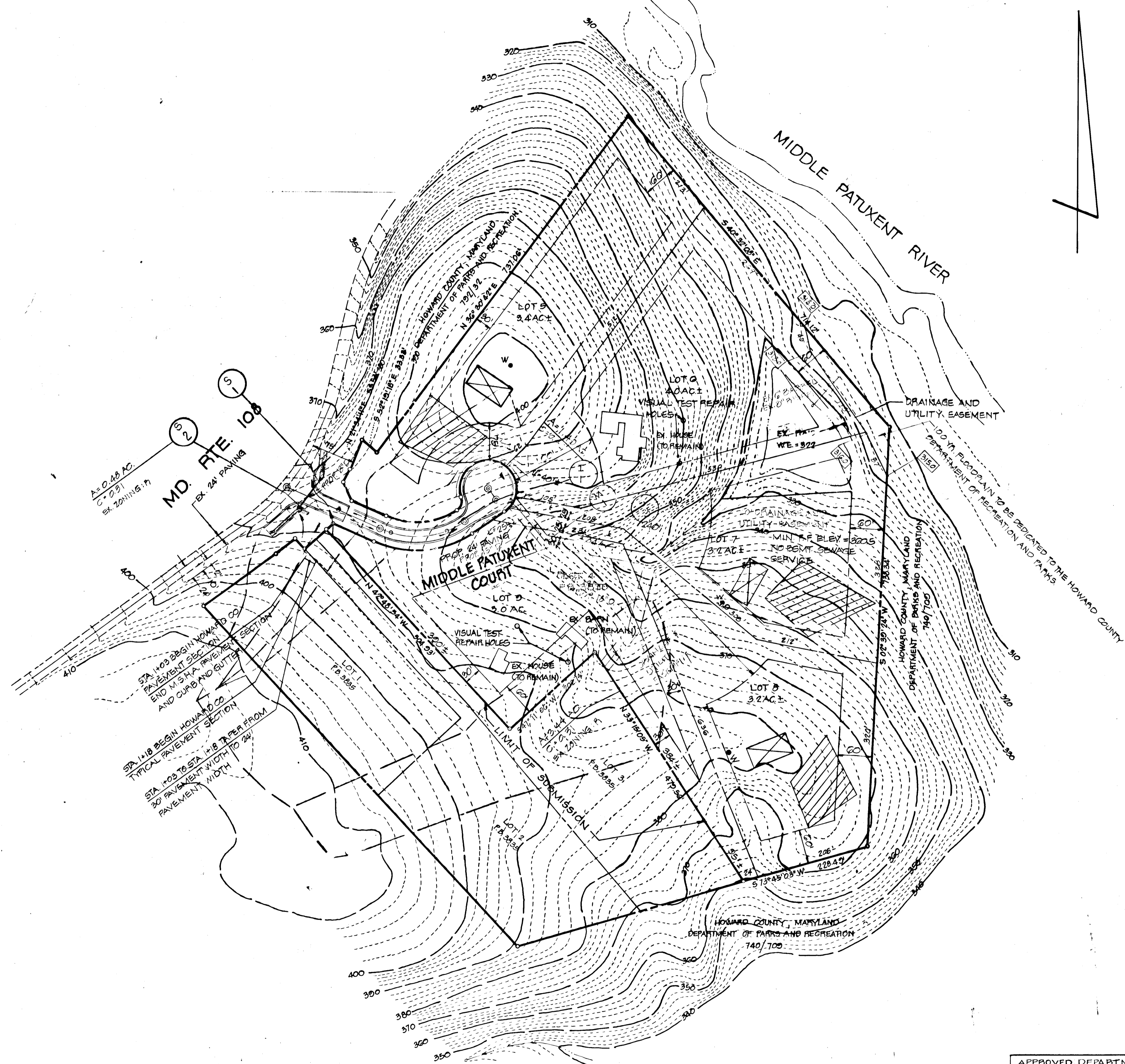
SCALE: 1" = 50' JOB NO.: 78202 DRAWING NO.: 3 of 4

boender associates engineers/surveyors/planners

SUITE 302-301 TOWN & COUNTRY PROFESSIONAL BUILDING  
FELICITY + EVELYN PARKS DRIVE  
BALTIMORE, MD 21202 TELEPHONE: 301-342-3270



VICINITY MAP  
SCALE: 1"=1200'



AS-BUILT 9-21-81  
AS-BUILT INFORMATION CERTIFIED  
BY EARL COLLINS P.E. No. 9758

Rodolphe May Jr  
9-19-79

OWNER & DEVELOPER  
11733 CLARKSVILLE PIKE  
CLARKSVILLE, MD. 21003

APPROVED DEPARTMENT OF PUBLIC WORKS  
*W. O. Pittman* 1-11-80  
CHIEF, BUREAU OF ENGINEERING DATE  
APPROVED OFFICE OF PLANNING AND ZONING  
*William M. ...* 1-10-80  
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

TITLE DRAINAGE AREA MAP			
PROJECT VETICK PROPERTY - LOTS 5 THRU 9; A RESUBDIVISION OF LOT 4			
LOCATION 5TH ELECTION DISTRICT, TAX MAP 29, PART OF PARCEL 53, HOWARD CO., MD			
DATE SEPT., 1979	DESIGN BY R.L.M.	DRAWN BY J.J.B./G.S.W.	CHECKED BY R.L.M.
SCALE 1"=100'	JOB NO. 78202 (O.R. 7704)	DRAWING NO. 4 OF 4	
boender associates SUITE 102-107 TOWN & COUNTRY PROFESSIONAL BUILDING ELLCOTT CITY, MARYLAND 21043 BALTIMORE 301-465-7777 SALISBURY 301-749-1388			engineers surveyors planners

AS-BUILT SEPT 21, 1981 F-80-51