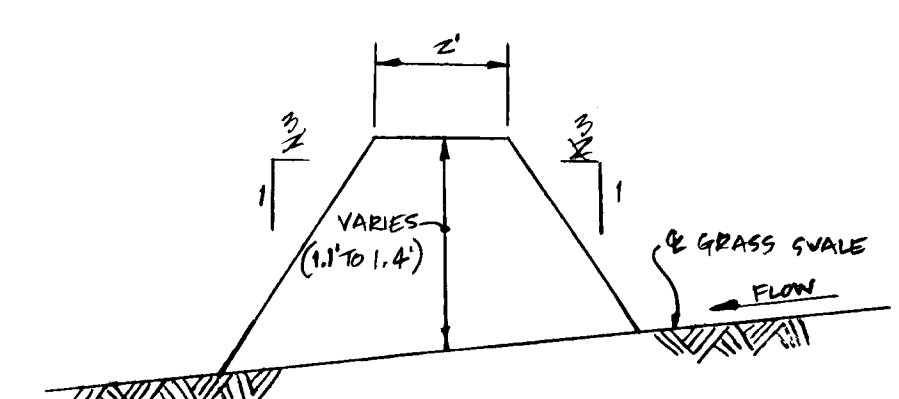


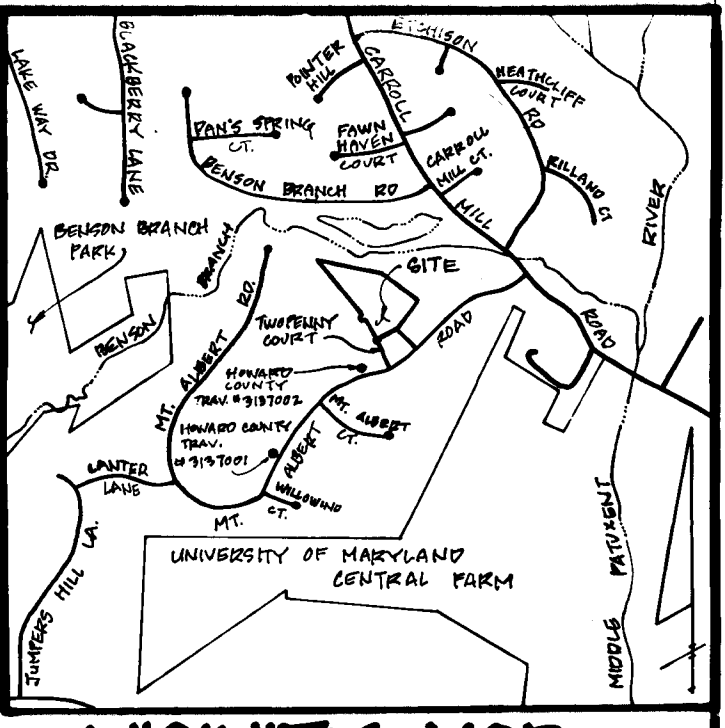
No.	TYPE	TOP ELEV.	INV. IN	INV. OUT	LOCATION
I-1	STO. TYPE D' INLET	420.439	—	450.801	SEE DIMENSIONS ON PLAN
E-1	CONCRETE END SECTION	420.591 @ 5.52	—	453.00 @ 5.52	—



CHECK DAM TYPICAL SECTION
SCALE: HORIZ - 1"=3'
VERT - 1"=1'

No.	LENGTH	HEIGHT	VOLUME (FT ³)
1	8'	1.2'	42
2	8'	1.1'	75
3	10'	1.3'	30
4	10'	1.3'	41
5	7'	1.4'	34

TOTAL VOLUME PROVIDED = 231 FT³
REQUIRED WATER QUALITY VOL. = 176 FT³



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF CONSTRUCTION INSPECTION AT (301) 792-7272 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- PROJECT BACKGROUND:
LOCATION: TAX MAP 22, PARCELS 101 & 107
ZONING: R (RURAL)
ELECTION DISTRICT: 3
TOTAL TRACT AREA: 11,503.0 AC.
- NUMBER OF PROPOSED LOTS: 3
DFZ FILE NUMBERS: F-67-62, DA-324-D
WP-91-43; APPROVAL TO BE RESCINDED IMMEDIATELY AFTER PLAT RECORDATION
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- FIELD-RUN MONUMENTED BOUNDARY SURVEY PERFORMED BY SHANABERGER & LANE IN MARCH, 1991, PARTIAL TOPOGRAPHIC SURVEY PERFORMED BY SHANABERGER & LANE IN APRIL, 1992. HOWARD COUNTY TRANSVERSE POINTS # 9237001 & 9237002 ARE THE BASIS FOR BOTH HORIZONTAL AND VERTICAL DATA.
- LIGHT POLES AND FIXTURES FOR STREET LIGHTS SHALL BE IN ACCORDANCE WITH THE LATEST HOWARD COUNTY DESIGN MANUAL, VOLUME III, ROADS AND BRIDGES. STREET LIGHTS ARE NOT REQUIRED IN THE R DISTRICT.
- PRIVATE WATER AND SEWER.
- THIS PROJECT IS EXEMPT FROM PERMANENT STORMWATER QUANTITY MANAGEMENT. WATER QUALITY MANAGEMENT IS PROVIDED BY CHECK DAMS IN ROADSIDE SWALES.
- FLOODPLAIN STUDY PERFORMED BY SHANABERGER & LANE IN AUGUST, 1991, AND APPROVED BY HOWARD COUNTY ON NOVEMBER 1, 1991.

- EX. PAVING TO BE REMOVED
- TREES TO REMAIN
- TREES TO BE REMOVED

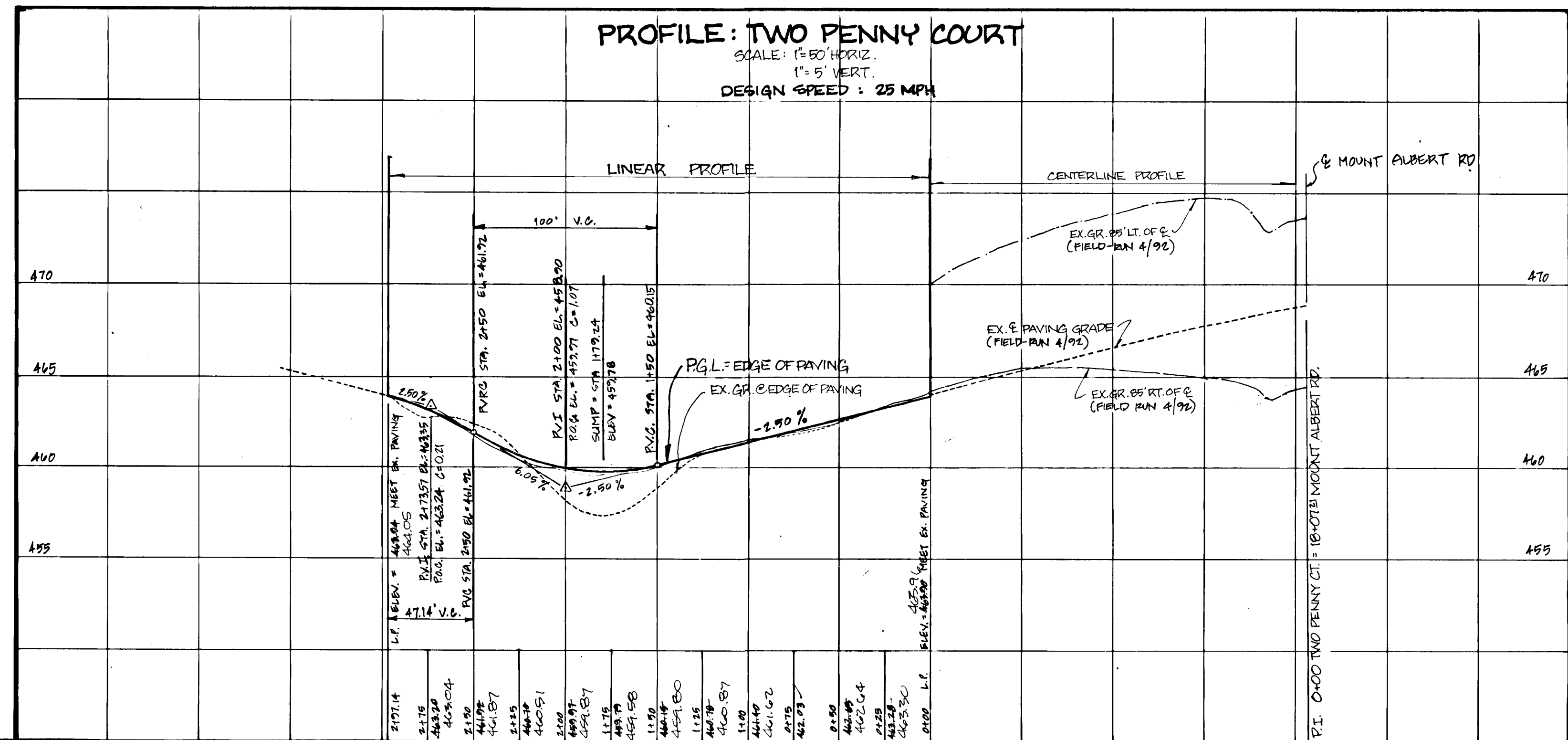
GENERAL NOTES (CONTINUED)

- WETLANDS DELINEATED BY WILLIAM F. KIRWIN, INC. IN FEBRUARY, 1991.
- EXISTING UTILITIES SHOWN ON PLAN WERE FIELD LOCATED DURING APRIL, 1992, PARTIAL TOPOGRAPHIC SURVEY BY SHANABERGER & LANE.
- ALL INLETS SHALL BE HOWARD COUNTY STANDARD UNLESS OTHERWISE SHOWN.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT-OF-WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME II.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST FIT EXISTING UTILITIES WHERE DIRECTED BY THE ENGINEER A MINIMUM OF TWO WEEKS IN ADVANCE OF ANY CONSTRUCTION.
- ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- ALL SWALES AND SLOPES SHALL BE PERMANENTLY SEEDDED. SEE THE SEED SPECIFICATIONS ON SHEET.
- STABILENKA (FILTER CLOTH T-100) OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP-RAP (FULL WIDTH AND LENGTH OF STONE).
- STONE FOR RIP-RAP SHALL BE AS SPECIFIED ON THE DRAWINGS. ALL RIP-RAP SHALL BE UNPAVED.

BENCH MARKS

HOWARD COUNTY TRANSVERSE NO. 9197001 - 3/4" REINFORCING ROD 3/4" x 29" BELOW SURFACE, LOCATED ON EAST SIDE OF MT. ALBERT ROAD AT 0.1 MILE SOUTH OF MT. ALBERT CRYPT.
ELEV. = 508.586.

HOWARD COUNTY TRANSVERSE NO. 9197002 - CONCRETE MONUMENT 2.0' BELOW SURFACE, LOCATED ON THE WEST SIDE OF MOUNT ALBERT ROAD 0.1 MILE SOUTH OF THE INTERSECTION OF MOUNT ALBERT ROAD AND TWO PENNY COURT.
ELEV. = 480.092.



AS-BUILT

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 104
ELLCOTT CITY, MARYLAND 21043

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
CHIEF, LAND DEVELOPMENT DIVISION (Acting) DATE 8/4/92
CHIEF, BUREAU OF HIGHWAYS DATE 7/27/92
CHIEF, BUREAU OF ENGINEERING DATE 8-2-92

APPROVED: DEPARTMENT OF PLANNING AND ZONING.
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE 8/9/92

SEYED A. SANDAT 5/20/92 DATE
SEYED A. SANDAT PROFESSIONAL ENGINEER #16499

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
#16499

REV. NO.	REVISION DESCRIPTION
1	AS SHOWN

BRODERICK PROPERTY & WOODMARK
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

OWNER AND DEVELOPER: MR. JOHN T. BRODERICK, JR.
PERSONAL REP. OF ESTATE OF CATHERINE C. BRODERICK
P.O. BOX 179
COLTONS POINT, MD 20626

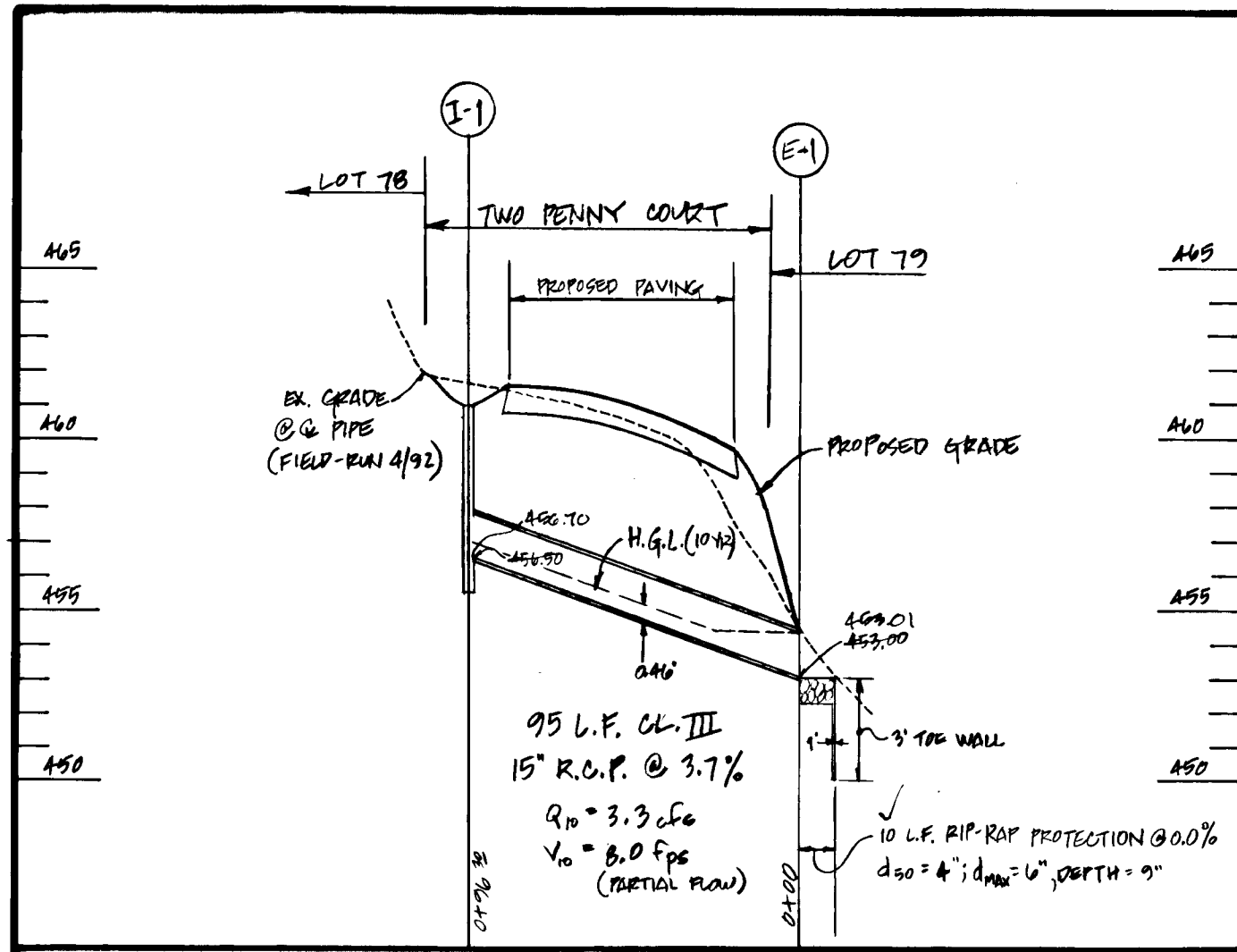
AREA: BRODERICK PROPERTY
LOTS 1 & 2
WOODMARK, SECTION 1
BLOCK 'C' PART 'B' LOT 79

TITLE: PLAN VIEW & PROFILE
TWO PENNY COURT

SCALE: AS SHOWN DATE: 5/18/1992

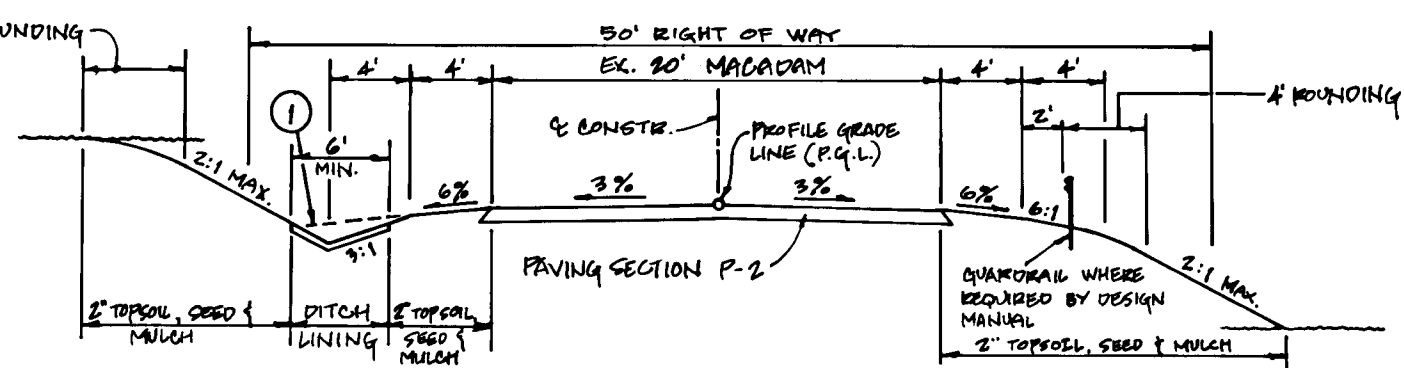
PREPARED BY: SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 104 101
ELLCOTT CITY, MD 21043
(410) 461-9563

CHEET 1 OF 3



PROPOSED STORM DRAIN PROFILE

SCALE: HORIZ. - 1" = 50'
VERT. - 1" = 5'



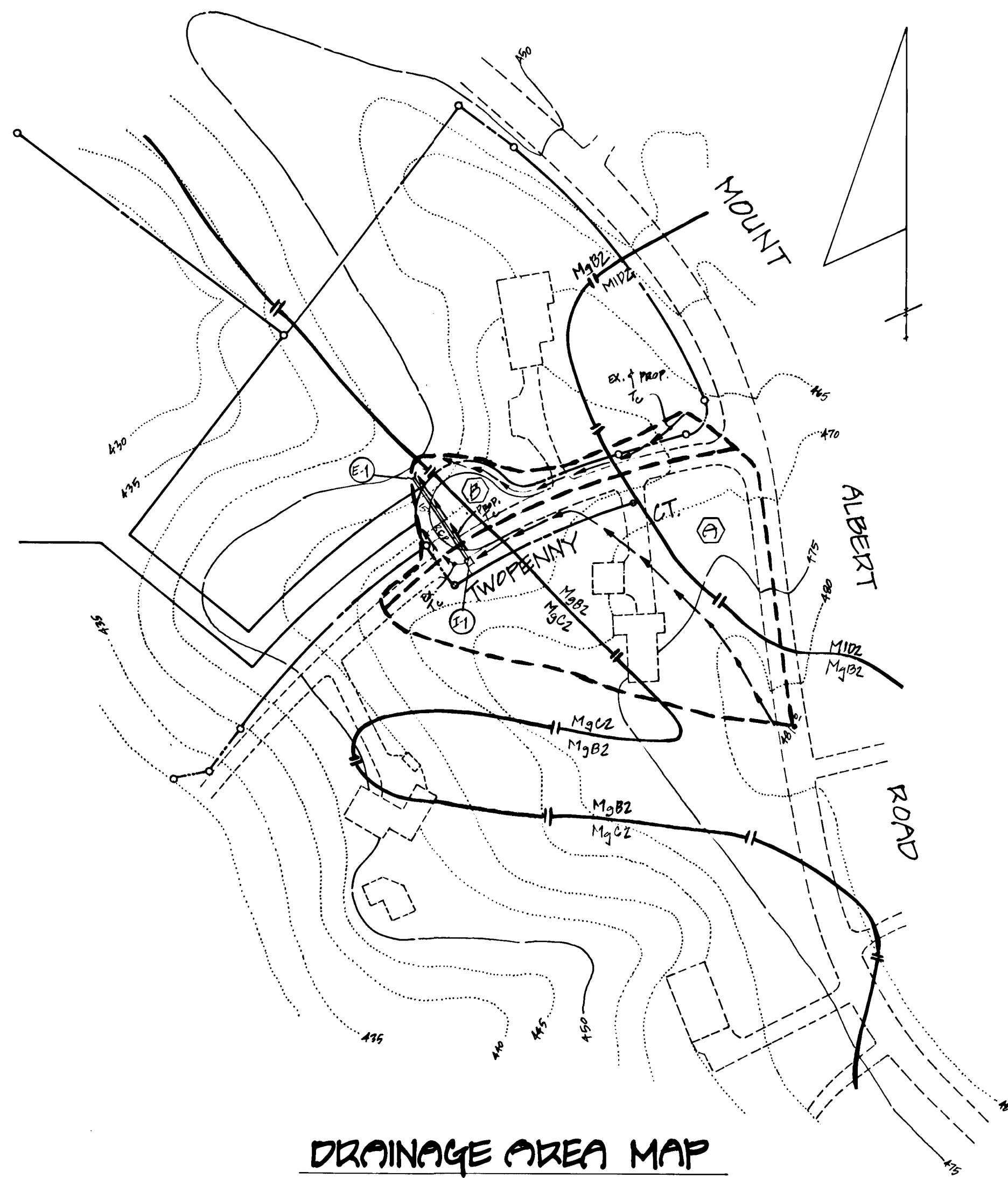
TYPICAL SECTION CUL-DE-SAC STREET

NOT TO SCALE
DESIGN SPEED 25 MPH

① DITCH CROSS SECTION SLOPE MAY BE FLATTENED TO PROVIDE A SWALE AT OR NEAR THE CREST OF VERTICAL CURVES WHERE QUANTITY OF SWALE FLOW IS SMALL, AS APPROVED BY D.W.

ROAD & STREET CLASSIFICATION	PAVEMENT MATERIALS	
	FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATE
RESIDENTIAL ZONES LOCAL CUL-DE-SAC STREETS, ALLEYS AND PRIVATE ROADS SERVING INDIVIDUAL LOTS.	1 1/2" BIT. CONCRETE SURFACE	1 1/2" BIT. CONC. SURF. 2 1/2" BIT. CONC. BASE
TRAVELWAYS APARTMENTS & COMMERCIAL INDUSTRIAL ZONES WITH NO MORE THAN 10 HEAVY TRUCKS PER DAY	5" BIT. CONC. BASE	6" GRADED AGGREGATE BASE

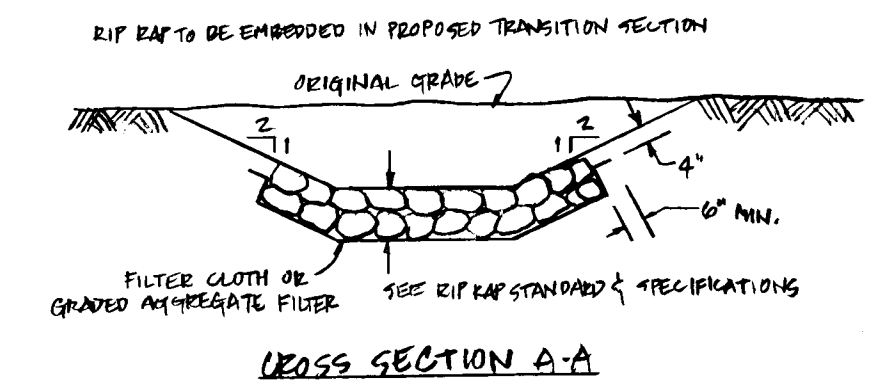
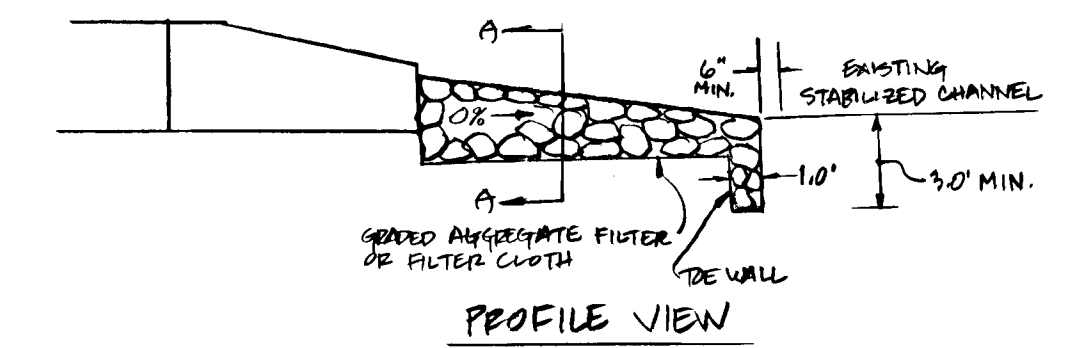
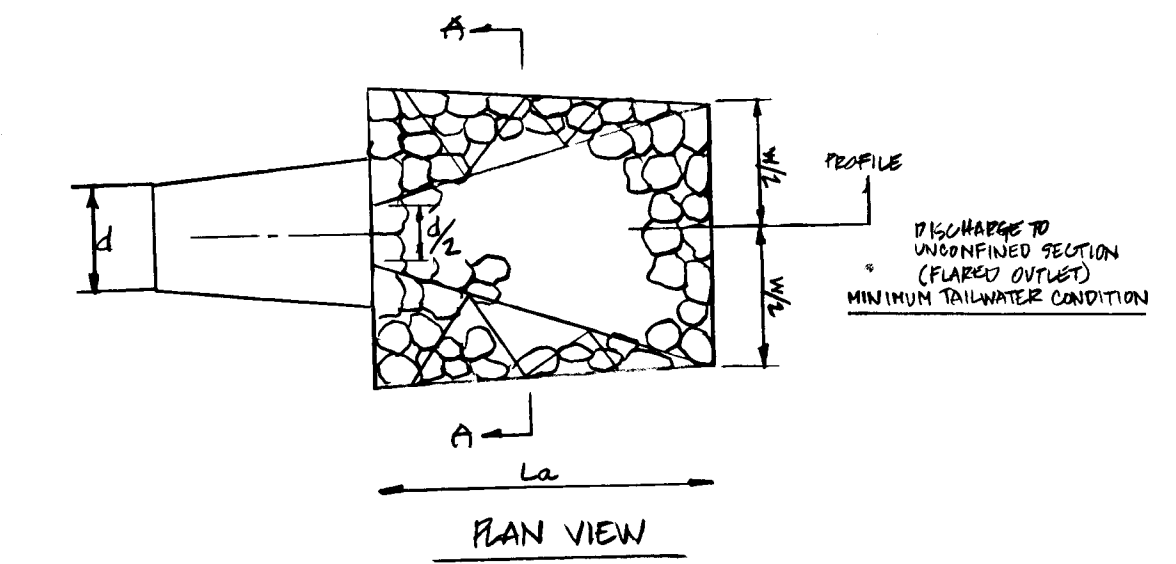
P-2 PAVING SECTION



DRAINAGE AREA MAP

SCALE: 1" = 100'

DRAINAGE AREA	SIZE	PERCENT	% IMPERVIOUS
A	1.91 AC.	70	24.9
B	0.32 AC.	70	21



RIP RAP OUTLET PROTECTION
NOT TO SCALE



AG-BUILT

G. Scott Shanaberger
G. SCOTT SHANABERGER
PROF. LG #16493
DATE 12/17/92

SHANABERGER & LANE
8726 TOWN & COUNTRY BLVD.
SUITE 104
ELLCOTT CITY, MARYLAND 21043

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

<i>[Signature]</i> CHIEF, LAND DEVELOPMENT DIVISION (Acting)	8/4/92 DATE
<i>[Signature]</i> CHIEF, BUREAU OF HIGHWAYS	7/27/92 DATE
<i>[Signature]</i> CHIEF, BUREAU OF ENGINEERING	8-14-92 DATE
APPROVED: DEPARTMENT OF PLANNING AND ZONING.	
<i>[Signature]</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	8/7/92 DATE

Sayed A. Sabat 5/20/92
SAYED A. SABAT DATE
PROFESSIONAL ENGINEER #16493

REV. DATE	REV. NO.	REVISION DESCRIPTION
BRODERICK PROPERTY & WOODMARK		
3 RD ELECTION DISTRICT HOWARD COUNTY, MARYLAND		
OWNER AND DEVELOPER:	MR. JOHN T. BRODERICK, JR. PERSONAL REP. OF ESTATE OF CATHERINE D. BRODERICK P.O. BOX 170 COLUMBUS POINT, MD 20686	
AREA:	BRODERICK PROPERTY LOTS 1 & 2 WOODMARK, SECTION 1 BLOCK 'C' PART 'B' LOT 73	
TITLE:	STORM DRAIN PROFILE DRAINAGE AREA MAP DETAILS	
SCALE:	AS SHOWN	DATE: 5/10/1992
PREPARED BY:	SHANABERGER & LANE 8726 TOWN & COUNTRY BLVD. SUITE 104 & 107 ELLCOTT CITY, MD 21043 (410) 461-9543	
SHEET 2 OF 3		

