

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ANY RESPONSIBLE PERSONNEL 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Colbert W. Bishop 11-2-98
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Eckhard G. Fisch 10-26-98
SIGNATURE OF ENGINEER DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Simmons 12/18/98
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John R. Robinson 12/18/98
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Cathy Hamilton 12/18/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

W. J. Williams 12/18/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

STREET TREE SCHEDULE

SYMBOL	BOTANICAL AND COMMON NAME	SIZE	COMMENTS
○	ACER RUBRUM 'OCTOBER GLORY' RED MAPLE	2 1/2" - 3" CAL.	40' APART ON PRIVATE ACCESS PLACE

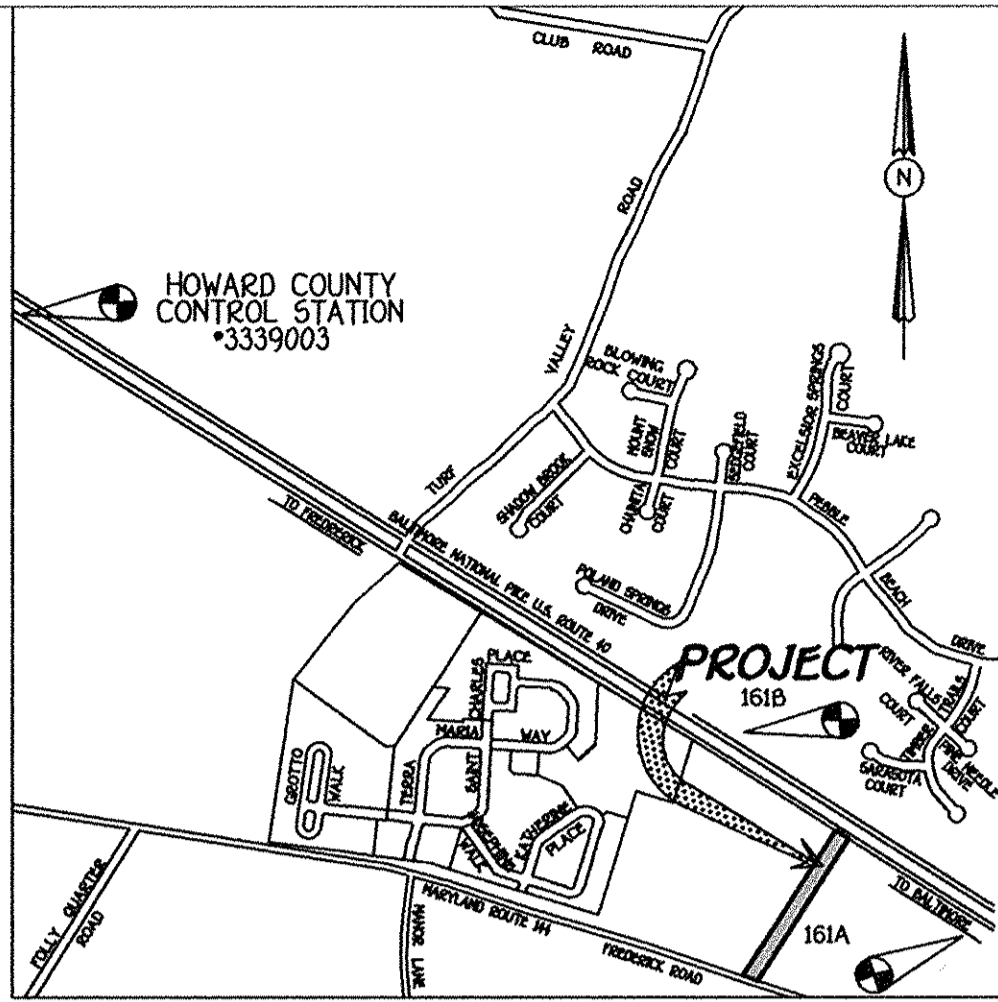
NOTE: THE STREET TREE TYPE MAY BE REVISED WITH AN ACCEPTABLE COUNTY EQUIVALENT.

TOTAL NUMBER OF STREET TREES:
○ - 30 TREES

SCHEDULE A PERIMETER LANDSCAPE EDGE

PERIMETER	CATEGORY PROPERTIES	LANDSCAPE TYPE	LINEAR FEET OF ROADWAY FRONTAGE PERIMETER	CREDIT FOR EXISTING VEGETATION (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	CREDIT FOR WALL FENCE OR BERM (YES, NO, LINEAR FEET DESCRIBE BELOW IF NEEDED)	NUMBER OF PLANTS REQUIRED			NUMBER OF PLANTS PROVIDED				
						SHADE TREES	EVERGREEN TREES	SHRUBS	SHADE TREES	EVERGREEN TREES	OTHER TREES	SHRUBS	
P-1	ADJACENT TO ROADWAY	B	190.11'	NO	NO	N/A	0	0	0	0	0	0	0
P-2	ADJACENT TO PERIMETER	A	932.92'	YES (100%)	NO	9	-	-	9	-	-	-	-
P-3	ADJACENT TO ROADWAY	B	205.29'	YES (205.29')	NO	0	0	0	0	0	0	0	0
P-4	ADJACENT TO PERIMETER	A	884.50'	YES (884.50')	NO	8	-	-	8	-	-	-	-
P-5	ADJACENT TO ROADWAY	B	200'	NO	NO	4	5	-	4	5	-	-	-
P-6	ADJACENT TO ROADWAY	B	160'	NO	NO	3	4	-	3	4	-	-	-

NOTE: THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE 33 REQUIRED LANDSCAPE TREES HAS BEEN POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$8,550.00.



VICINITY MAP
SCALE: 1" = 2000'

LANDSCAPING PLANT LIST

QTY.	KEY	NAME	SIZE
17	○	ACER RUBRUM 'OCTOBER GLORY' (OCTOBER RED MAPLE)	2 1/2" - 3" CALIPER FULL CROWN, B&B
9	*	PINUS STROBUS EASTERN WHITE PINE	6' - 8' HEIGHT
7	○	PLATANUS OCCIDENTALIS 'BLOODGOOD' LONDON PLANETREE	2 1/2" - 3" CALIPER FULL CROWN, B&B

NOTE: THE LANDSCAPING TREE TYPE MAY BE REVISED WITH AN ACCEPTABLE COUNTY EQUIVALENT.

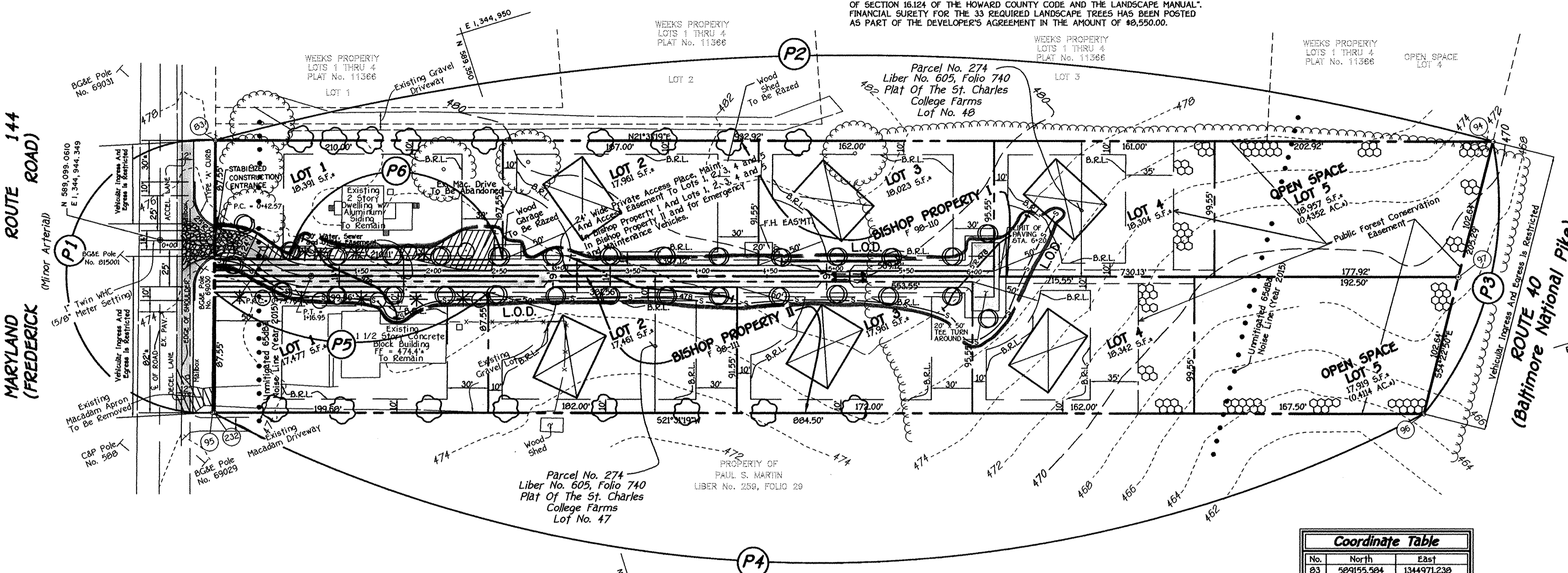
BISHOP PROPERTY I & II
(A RESUBDIVISION OF "THE ST. CHARLES COLLEGE FARMS", LOTS 47 AND 48)
ZONED R-20
TAX MAP NO. 16 PARCEL NO. 274
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

PROPOSED 14' PRIVATE ACCESS PLACE
PLAN AND PROFILE

OWNER / DEVELOPER
MR. GILBERT WILLIAM BISHOP
10752 FREDERICK ROAD
ELLCOTT CITY, MARYLAND 21042

SCALE: AS SHOWN DATE: OCT. 15, 1998 DWG. NO. 1 OF 2
DES. Z.Y.F. DRN. J.C.L. CHK. Z.Y.F.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
4100-461 - 2899 36979 ROAD/DC

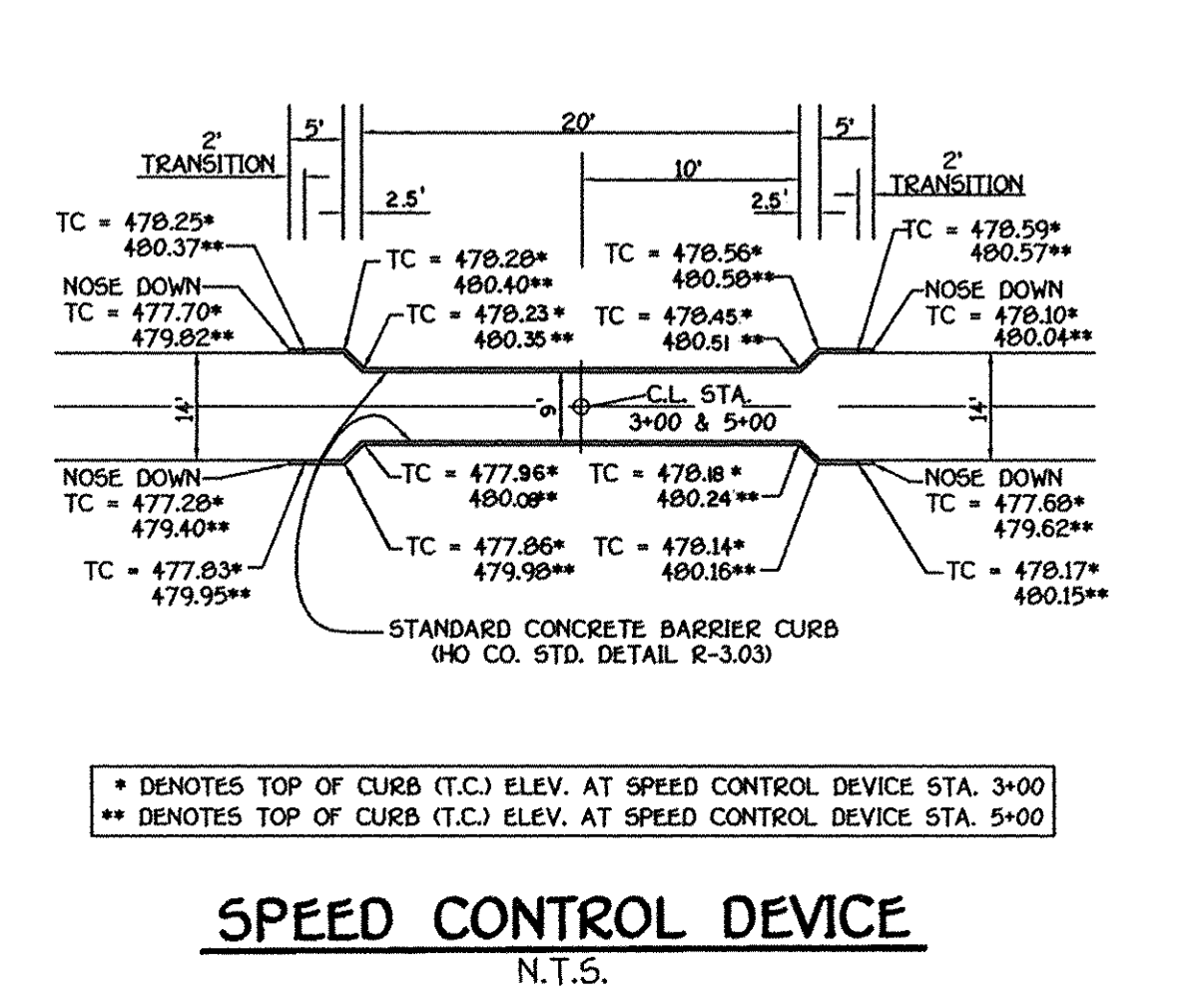
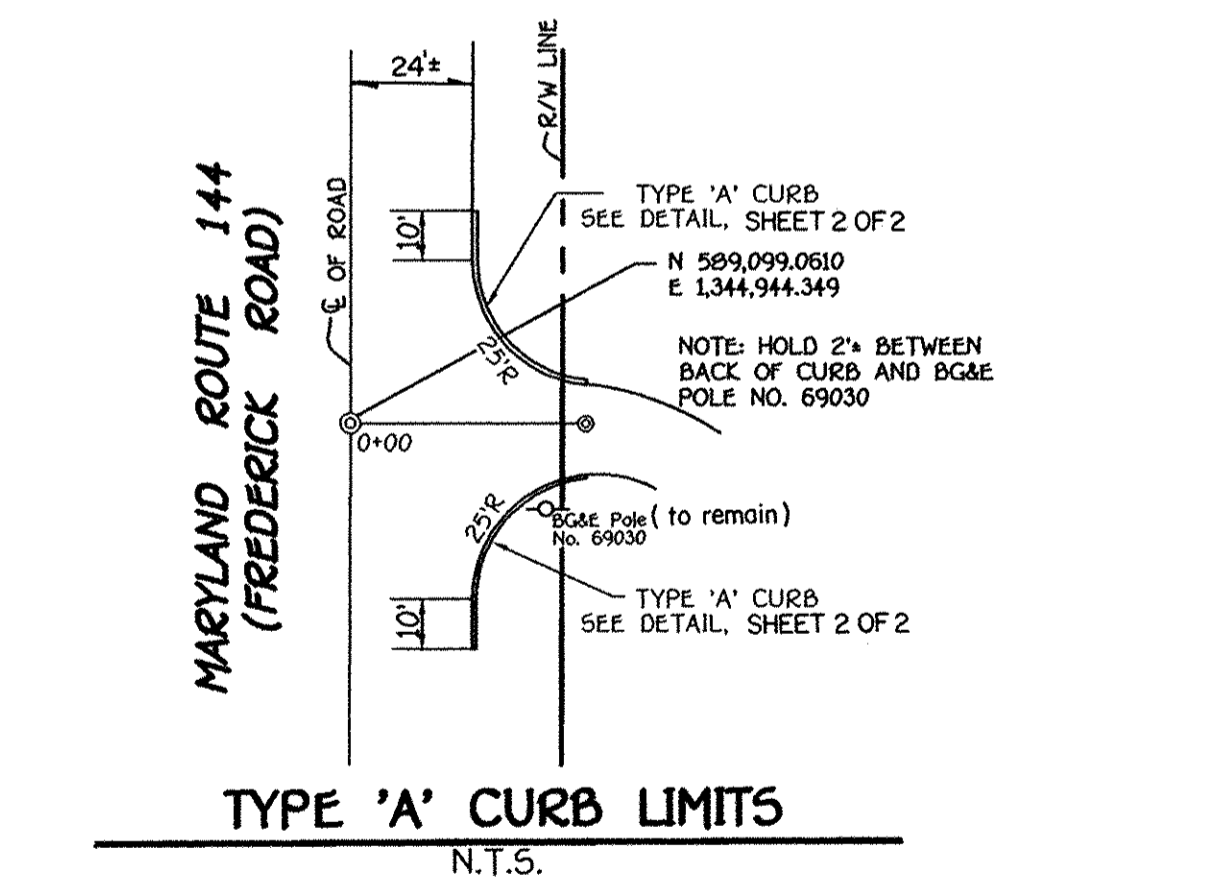
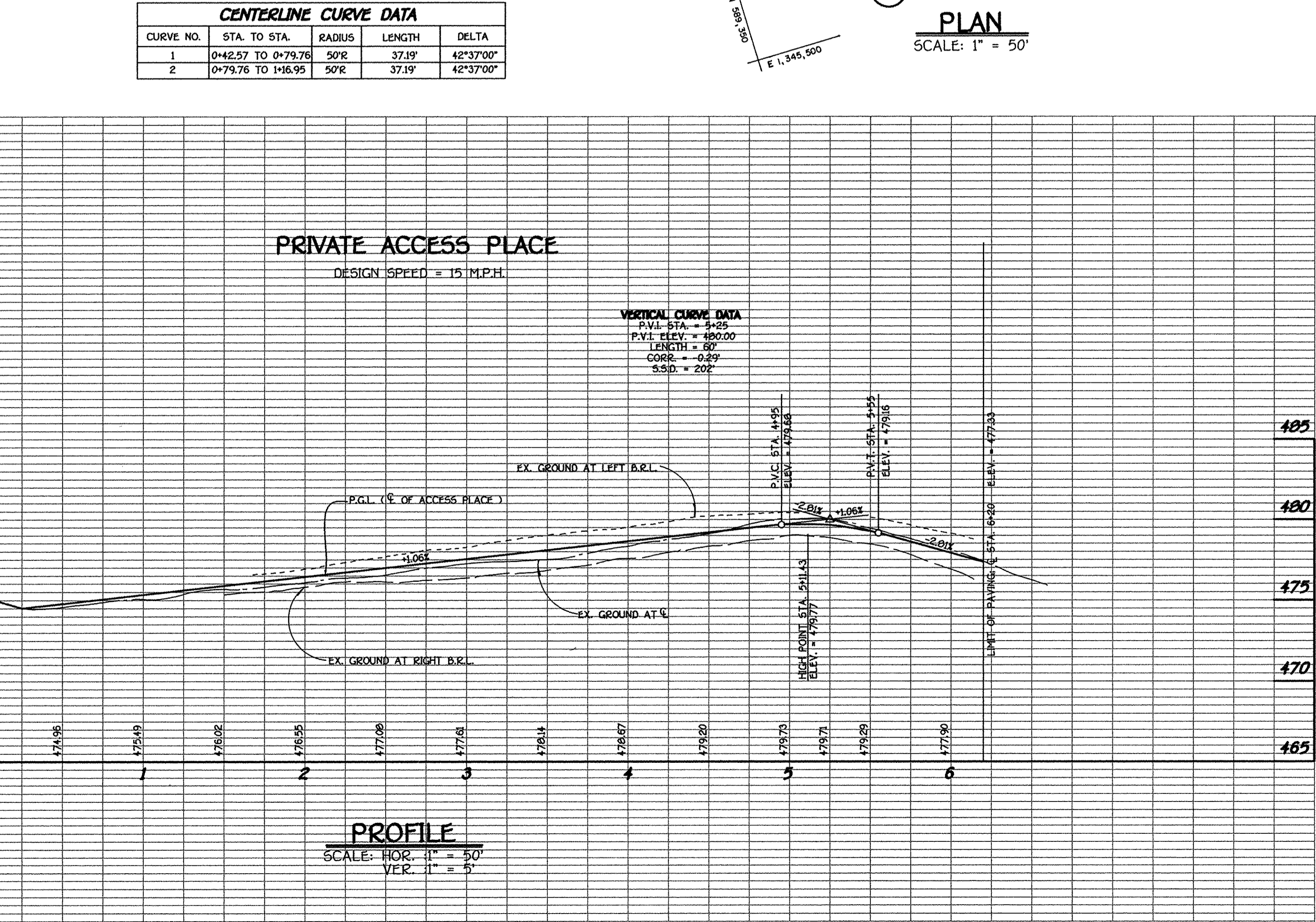
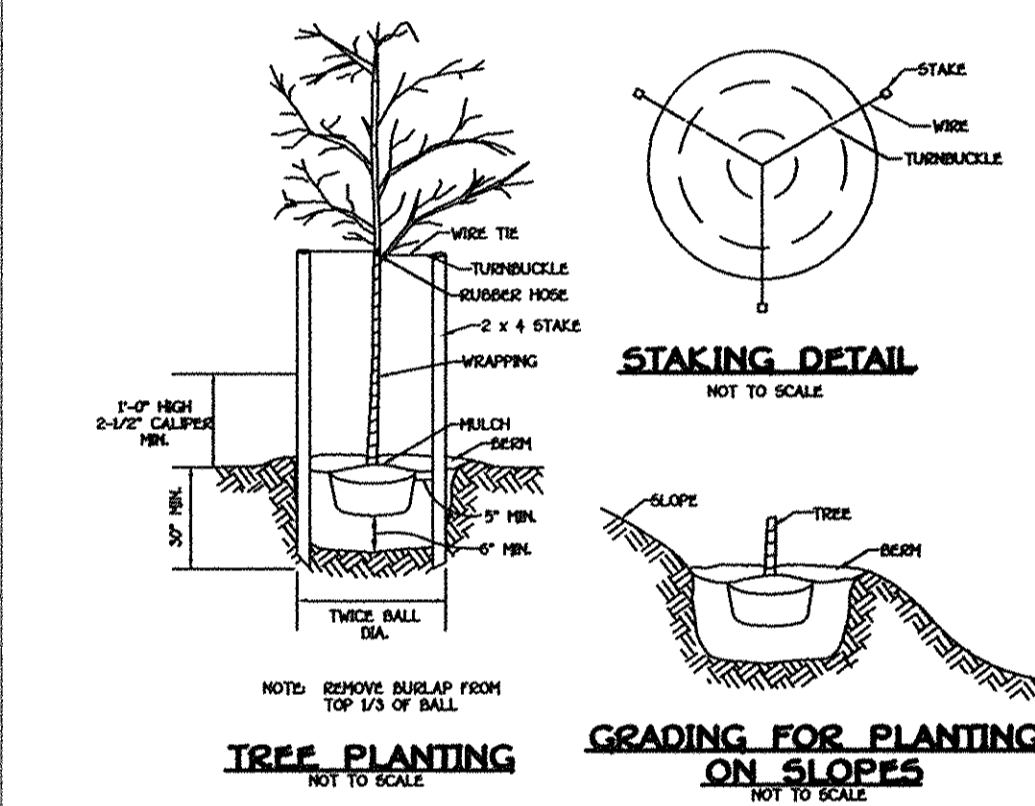


CENTERLINE CURVE DATA

CURVE NO.	STA. TO STA.	RADIUS	LENGTH	DELTA
1	0+42.57 TO 0+79.76	50'R	37.19'	42°37'00"
2	0+79.76 TO 1+16.95	50'R	37.19'	42°37'00"

Coordinate Table

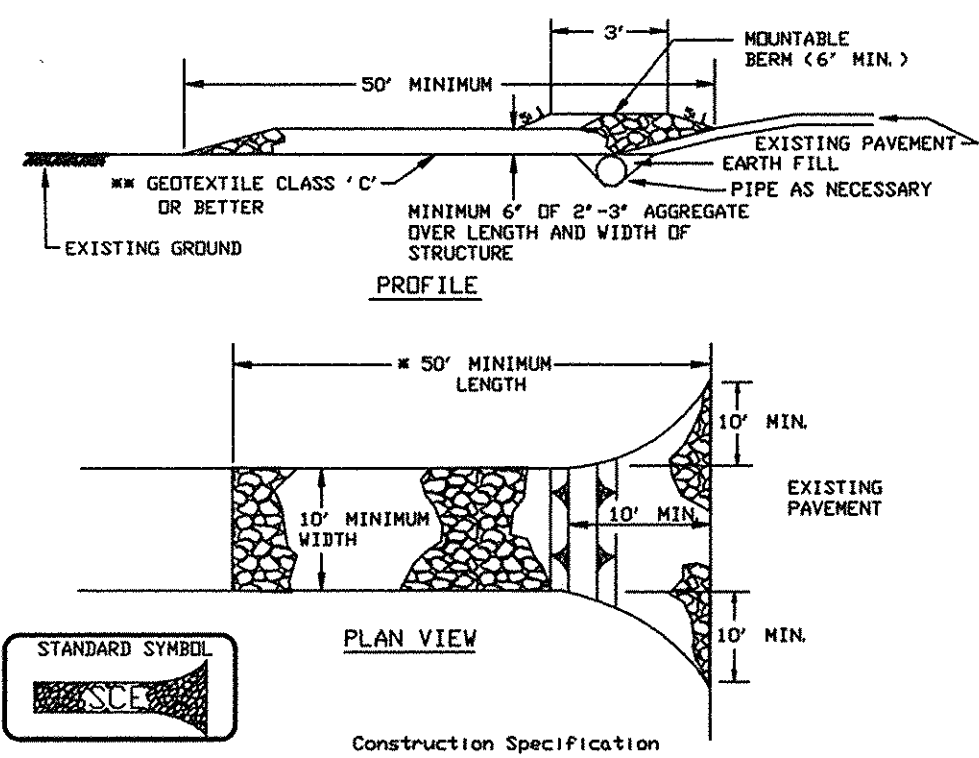
No.	North	East
83	589155.584	1344971.238
84	590045.981	134246.781
85	589095.271	134260.391
86	589044.302	134222.226
232	589096.535	134261.386
233	589126.059	134206.307
88	589125.423	134206.115
87	589093.592	134334.509



- GENERAL NOTES**
- CONTRACTOR TO CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 24 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - THE EXISTING TOPOGRAPHY IS BASED ON A FIELD RUN SURVEY BY FISHER, COLLINS AND CARTER, INC. ON OR ABOUT JANUARY 1997.
 - PUBLIC WATER AND PUBLIC SEWER TO BE UTILIZED. EXISTING PUBLIC WATER CONTRACT NO. 44-311 CAPITAL PROJECT NO. W-9144. EXISTING PUBLIC SEWER CONTRACT NO. 20-3322 CAPITAL PROJECT NO. S-6167.
 - PREVIOUS FILE NOS. WP-98-26, 597-22 AND F98-111.
 - THE COORDINATES SHOWN HEREON ARE BASED ON HOWARD COUNTY CONTROL MONUMENTS:
NO. 161A N 589509.3473 E 1346343.637
NO. 161B N 590475.2391 E 1344753.968
 - 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 ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
 - TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
 - A WAIVER TO ALLOW PAYMENT OF A FEE-IN-LIEU OF STORM-WATER MANAGEMENT FOR THIS SUBDIVISION WAS APPROVED ON APRIL 3, 1998.
 - EXISTING UTILITIES ARE BASED ON FIELD SURVEY AND HOWARD COUNTY CONTRACT DRAWINGS.
 - THERE IS NO FLOODPLAIN ON THIS SITE.
 - THERE ARE NO WETLANDS ON THIS SITE.
 - NO TRAFFIC STUDY IS REQUIRED FOR THIS PROJECT.

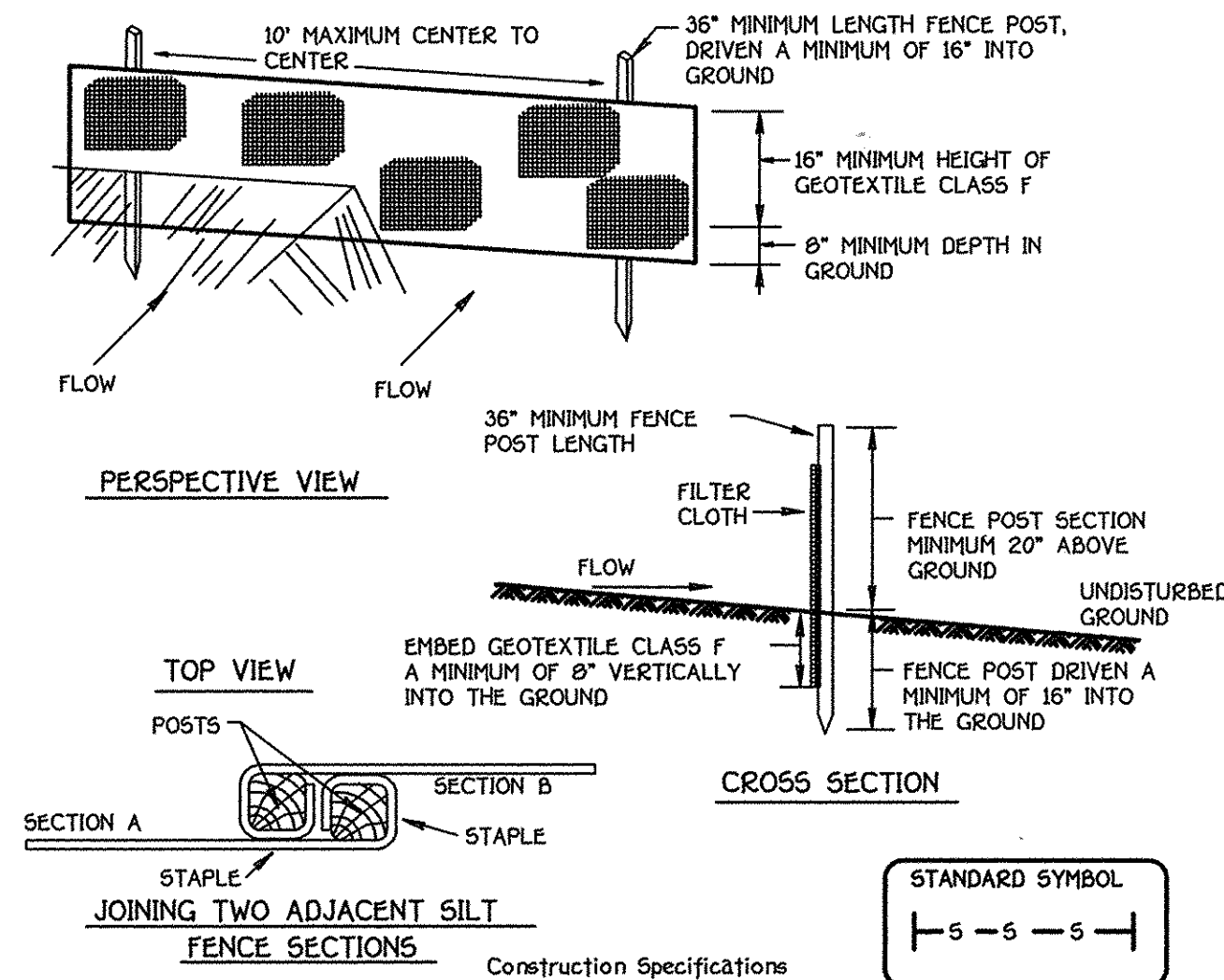
STATE OF MARYLAND
LAND SURVEYING BOARD
2818
PROFESSIONAL ENGINEER

Eckhard G. Fisch



- Length - minimum of 50' (+30' for single residence lot).
- Width - 10' minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 3:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SSE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

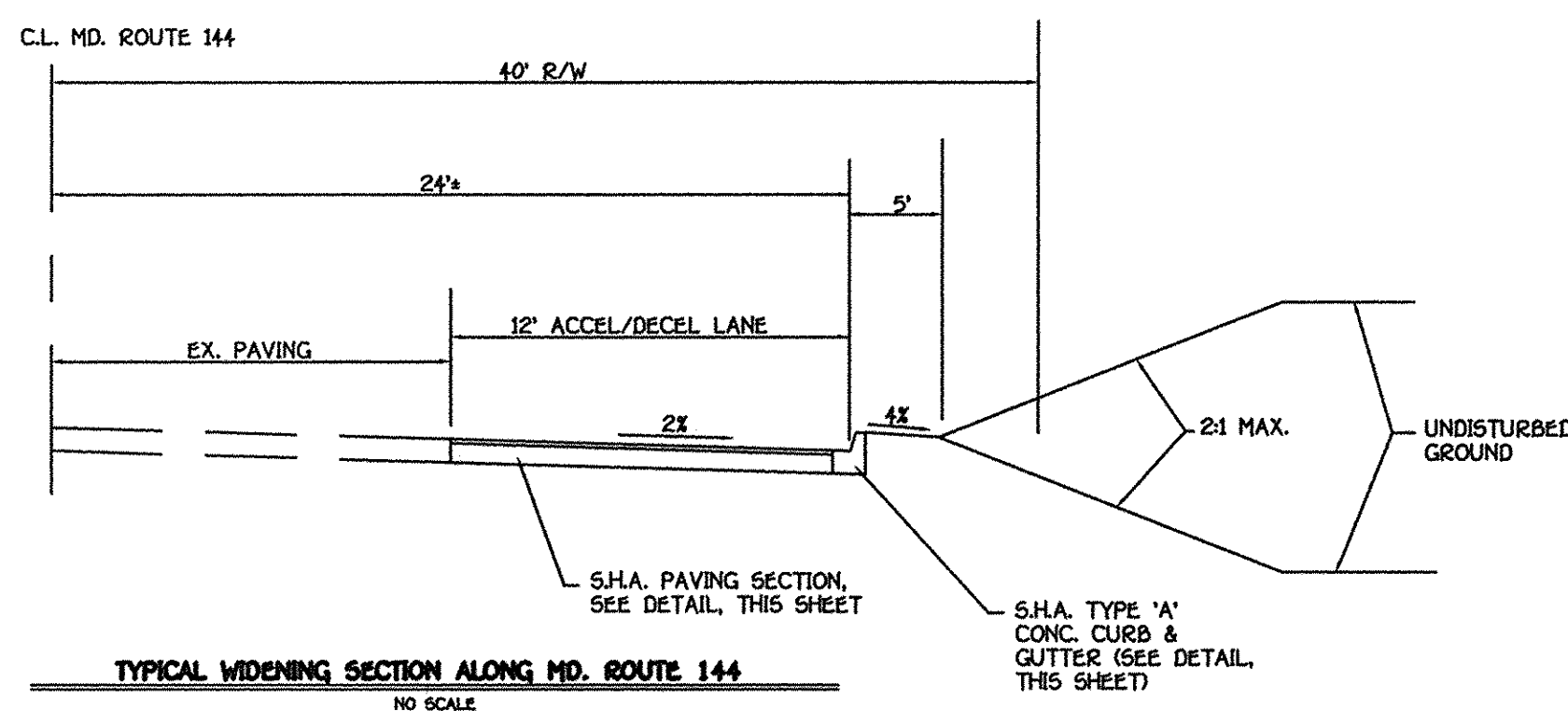
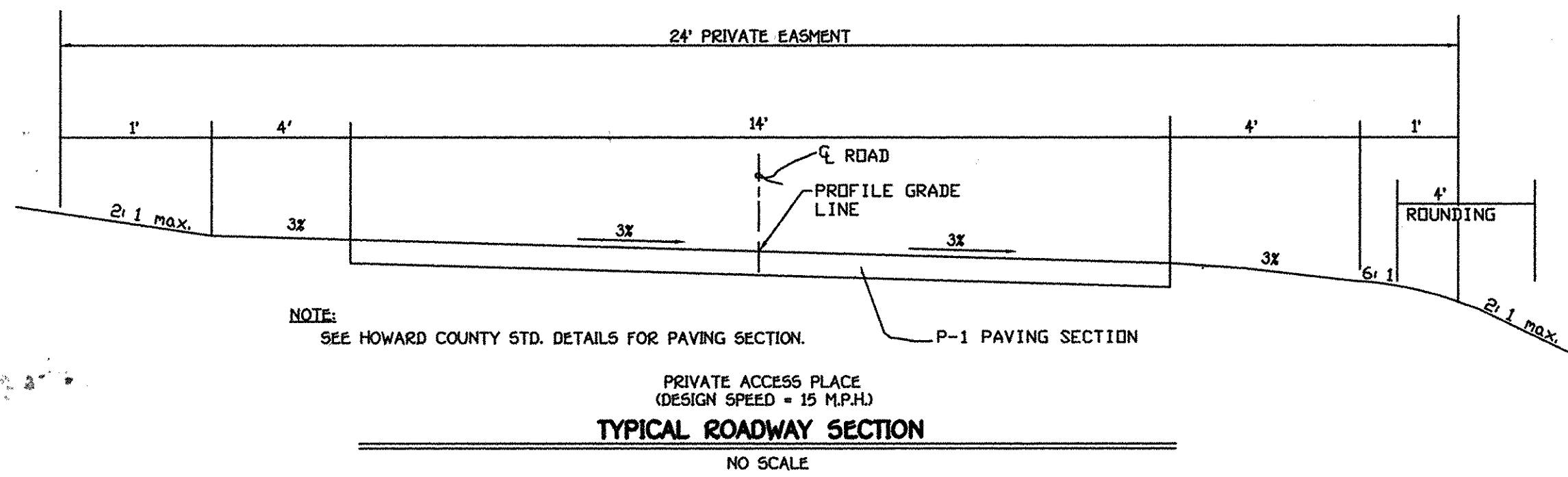
STABILIZED CONSTRUCTION ENTRANCE - 2
NOT TO SCALE



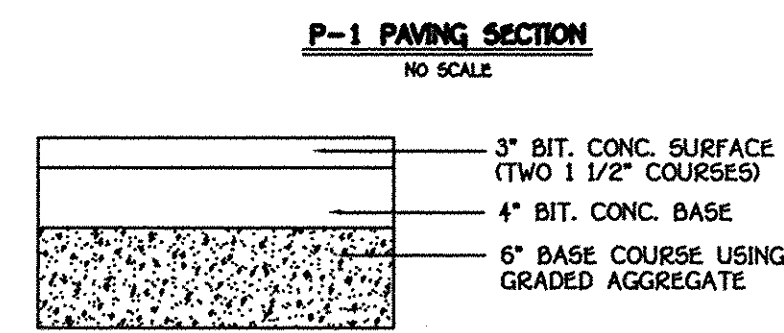
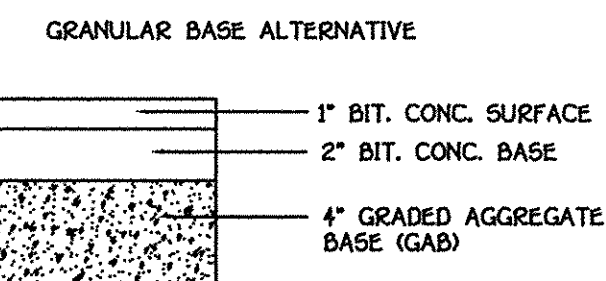
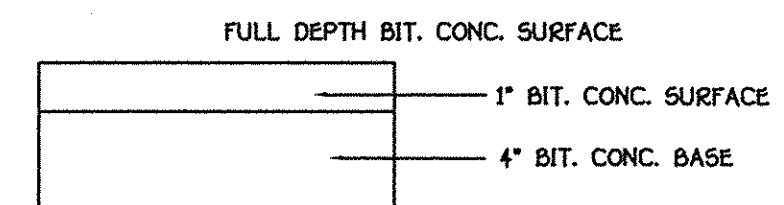
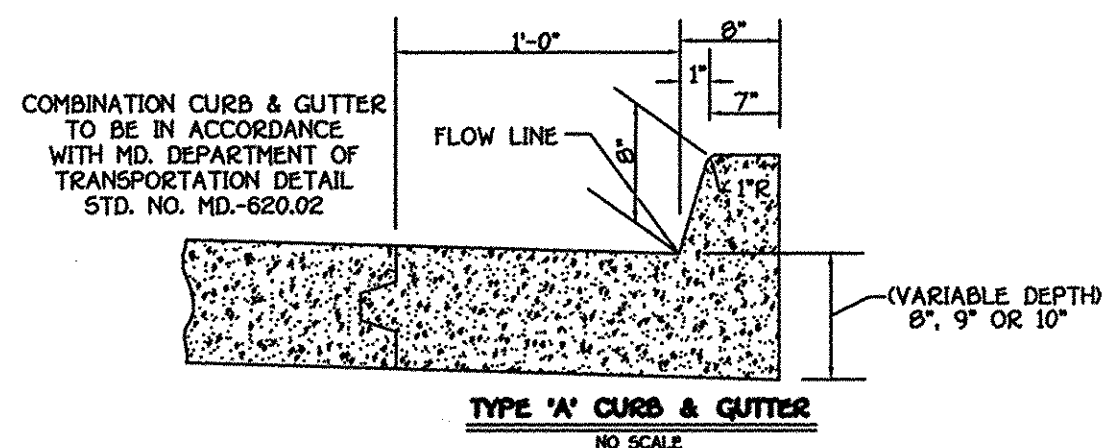
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 100 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min)	Test: MSMT 509
Flow Rate	0.3 gal ft / minute (max)	Test: MSMT 322
Filtering Efficiency	75% (min)	Test: MSMT 322
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

DETAIL 22 - SILT FENCE
NOT TO SCALE



S.H.A. SECTION SHALL BE 3" (NOMINAL) BITUMINOUS CONCRETE SURFACE (TWO 1 1/2" COURSES), 4" (NOMINAL) BITUMINOUS CONCRETE BASE AND EITHER ONE OF THE FOLLOWING:
6" BASE COURSE USING GRADED AGGREGATE BASE, GA BASE OR A 7" GRAVEL BASE, BRG BASE.



DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND THAT ANY RESPONSIBLE PERSONNEL 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Gilbert W. Bishop 11-2-98
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Eacharia J. Fisch 10-26-98
SIGNATURE OF ENGINEER DATE

REVIEW FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT, AND MEETS TECHNICAL REQUIREMENTS.

Clay Summons 12/8/98
HOWARD COUNTY SOIL CONSERVATION SERVICE DATE

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

John R. Reardon 12/8/98
HOWARD SOIL CONSERVATION DISTRICT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Cindy Hamstra 12/8/98
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Clay Summons 12/10/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (93-1895).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 50), SOIL (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	4.15 ACRES +
AREA DISTURBED	0.54 ACRES +
AREA TO BE ROOFED OR PAVED	0.21 ACRES +
AREA TO BE VEGETATIVELY STABILIZED	0.33 ACRES +
TOTAL CUT	355 CU.YDS.
TOTAL FILL	355 CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	0 CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



NOTES AND DETAILS
BISHOP PROPERTY I & II

(A RESUBDIVISION OF THE ST. CHARLES COLLEGE FARMS, LOTS 47 AND 48) ZONED R-20
TAX MAP NO. 16 PARCEL NO. 274
SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE: OCTOBER 15, 1998
SHEET 2 OF 2

OWNER / DEVELOPER
MR. GILBERT WILLIAM BISHOP
10752 FREDERICK ROAD
ELLCOTT CITY, MARYLAND 21042