

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHTS OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
4. ANY DAMAGE TO PUBLIC RIGHTS OF WAY SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272.
6. ALL TRAFFIC CONTROL DEVICES, 1984 REVISED EDITION, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 EDITION.

NOTE: A MAINTENANCE AGREEMENT FOR THE EXISTING POND WILL BE RECORDED SIMULTANEOUSLY WITH THE RECORD PLAT FOR "SHARP FARMS" LOTS 17-31.

☺ CURVE DATA

☺ STA. 0+65.34 TO
☺ STA. 1+61.26
R = 150.00
L = 95.92'
Δ = 36°38'20"
T = 49.66'
CHD. = S83°40'50"E
94.29'

☺ CURVE DATA

☺ STA. 2+71.26 TO
☺ STA. 4+07.39
R = 300.00
L = 136.14
Δ = 26°00'00"
T = 69.26'
CHD. = S89°00'00"E
134.97'

☺ CURVE DATA

☺ STA. 4+07.39 TO
☺ STA. 6+74.07
R = 694.52
L = 266.68'
Δ = 22°00'00"
T = 135.00'
CHD. = S65°00'00"E
265.04'

☺ CURVE DATA

☺ STA. 8+22.64 TO
☺ STA. 11+12.80
R = 875.00
L = 290.16'
Δ = 19°00'00"
T = 146.43'
CHD. = S63°30'00"E
288.83'

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK NO.	

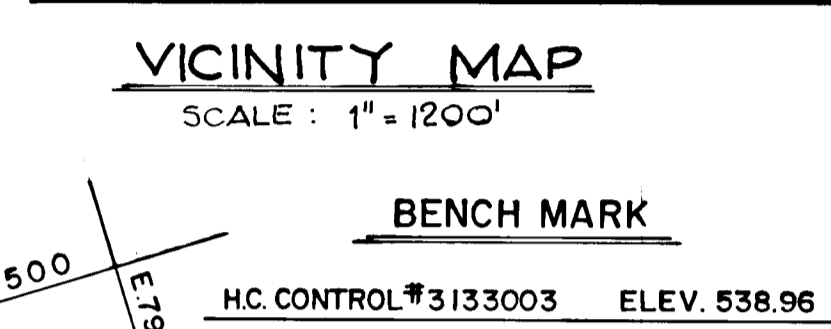
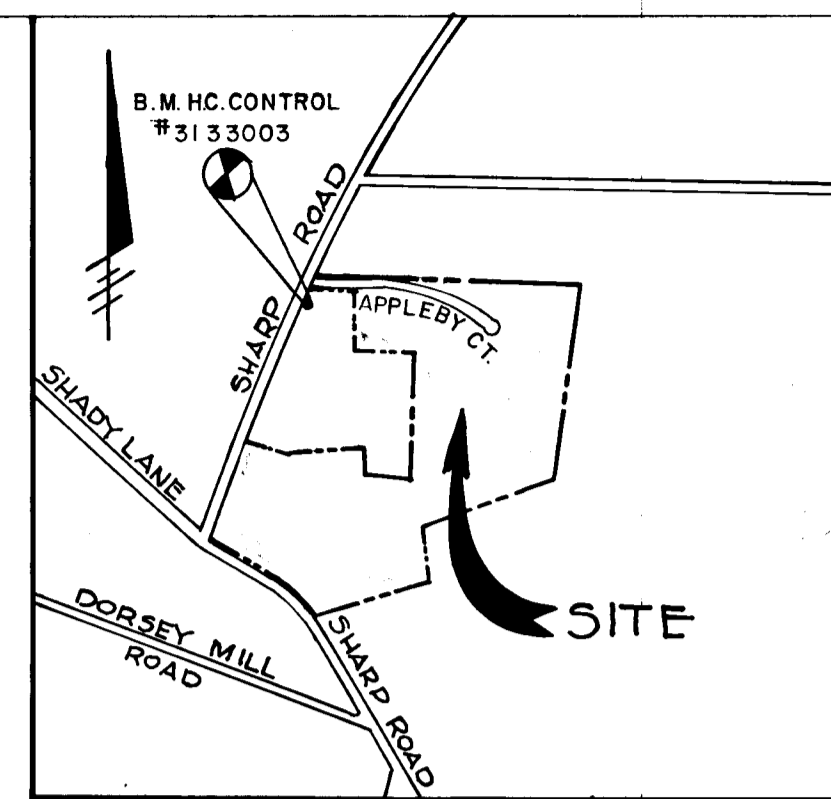
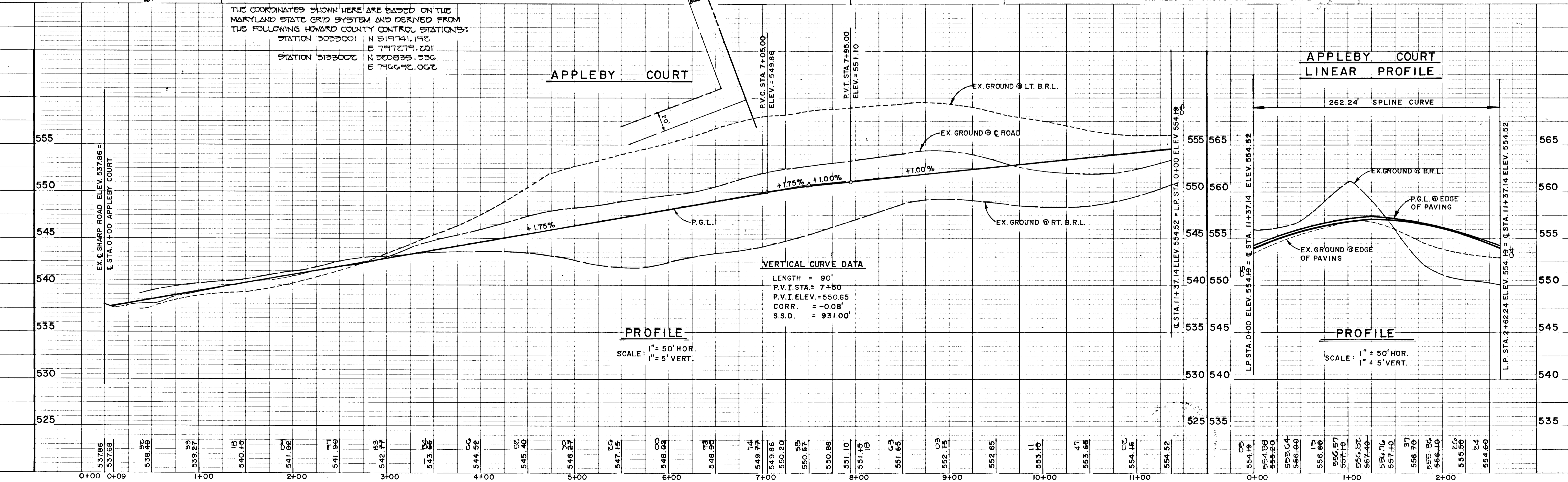
APPROVED
DEPARTMENT OF PUBLIC WORKS
Paul J. Ryan 12/10/89
CHIEF, BUREAU OF HIGHWAYS

APPROVED
DEPARTMENT OF PUBLIC WORKS
Braville W. McLeod 12/05/89
CHIEF, BUREAU OF HIGHWAYS

APPROVED
DEPARTMENT OF ENGINEERING
William E. Raley 12-18-89
CHIEF, BUREAU OF ENGINEERING

APPROVED
DEPARTMENT OF PLANNING AND ZONING
David J. Long 12/22/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

DATE	
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NOTE BOOK NO.	
STRUCTURE NOTATION	



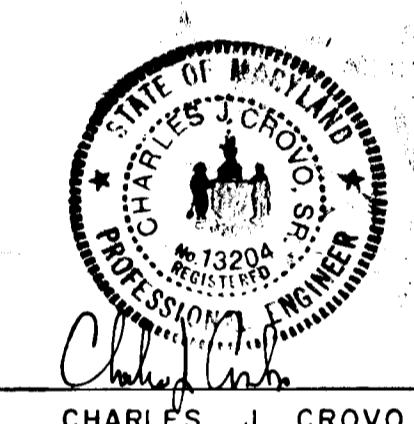
SHARP FARMS
LOTS 17 - 31
A RESUBDIVISION OF LOTS 15 AND PARCEL 'A'
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

APPLEBY COURT
PLAN AND PROFILE

OWNER AND DEVELOPER
CHARLES A. SHARP
3779 SHARP ROAD
GLENWOOD, MARYLAND 21738

SCALE AS SHOWN DATE 7-3-1989 DWG. NO. 1 OF 5
DES. Z. Y. FISCH DRN. A.S. CHK. C. J. CROVO

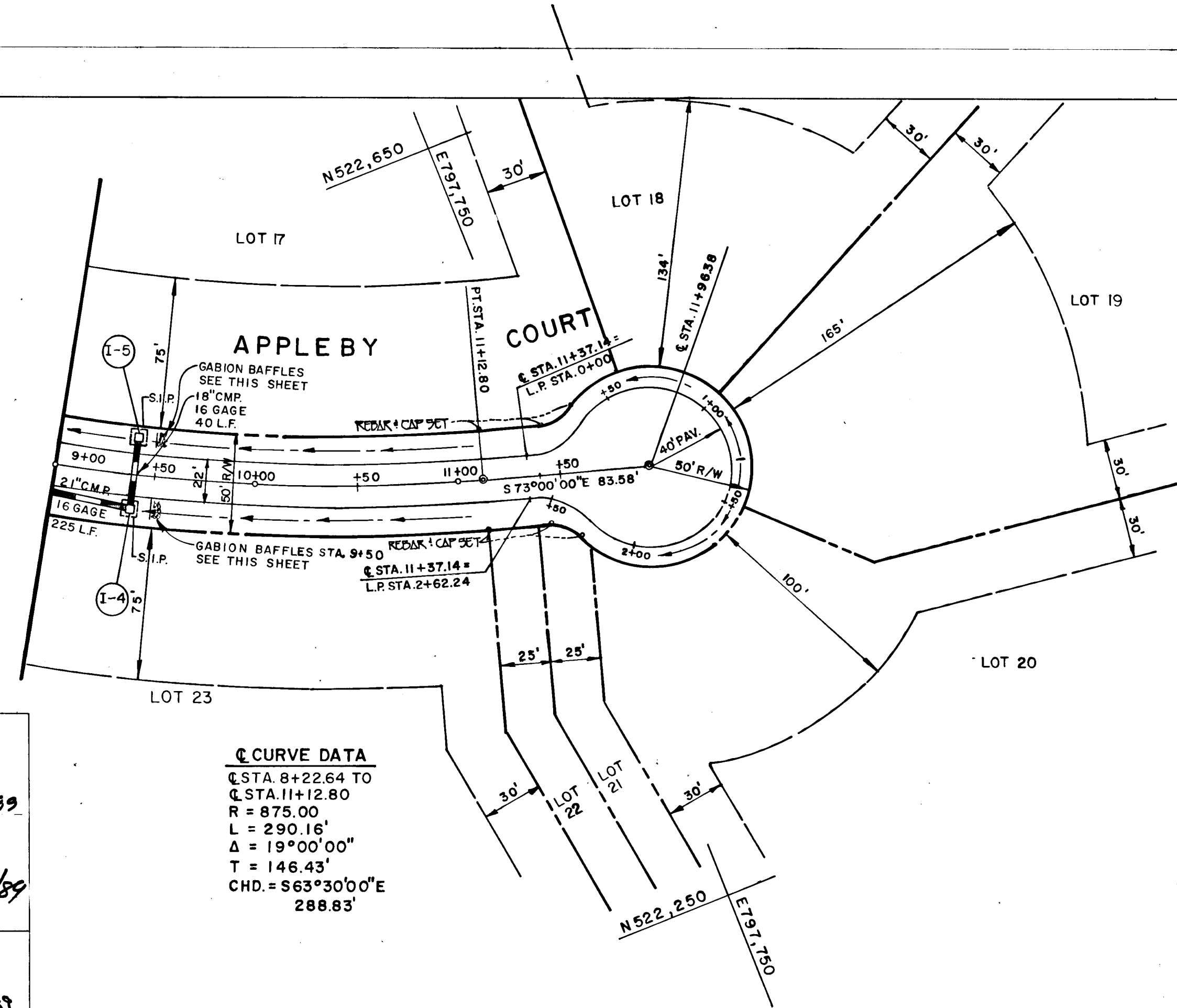
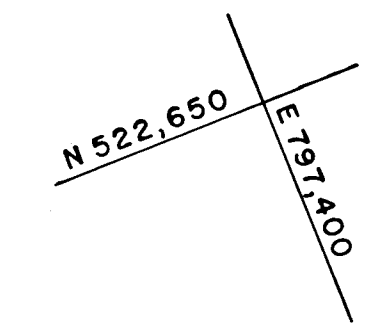
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



679

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	



Q CURVE DATA
 Q STA 8+22.64 TO
 Q STA 11+12.80
 R = 875.00
 L = 290.16'
 Δ = 19°00'00"
 T = 146.43'
 CHD. = S63°30'00"E
 288.83'

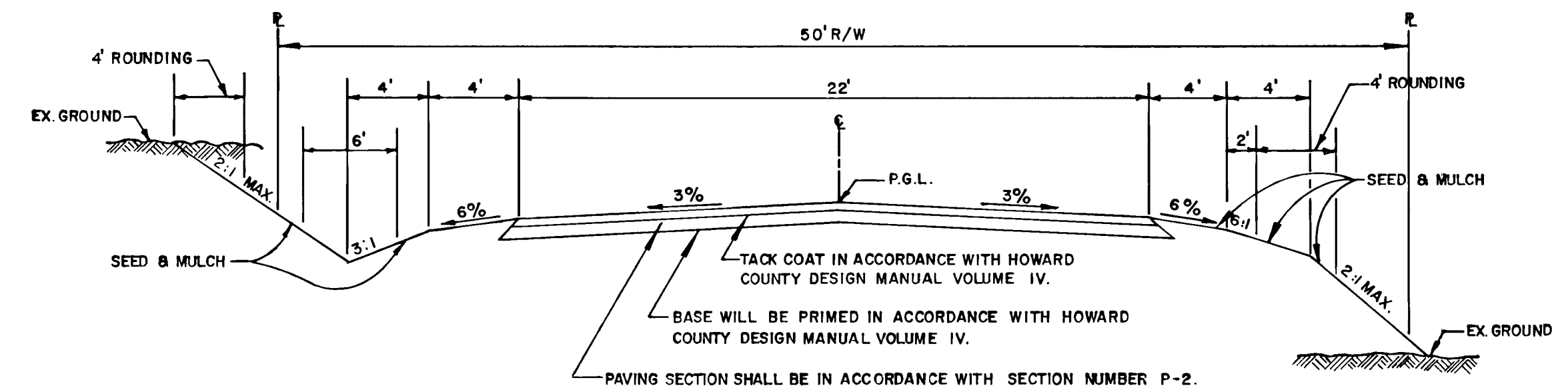
PLAN
 SCALE: 1" = 50'

APPROVED
 DEPARTMENT OF PUBLIC WORKS
Donald J. Egan 12/18/89
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE

APPROVED
 DEPARTMENT OF PUBLIC WORKS
William & Ruby 12-18-89
 CHIEF, BUREAU OF ENGINEERING
 DATE

APPROVED
 DEPARTMENT OF PLANNING AND ZONING
Frank J. ... 12/18/89
 CHIEF, DIVISION OF COMMUNITY PLANNING
 AND LAND DEVELOPMENT
 DATE

APPLEBY COURT
 LIMITS @ STA. 0+00 TO @ STA. 11+96.38
 CLASSIFICATION CUL-DE-SAC ZONED R' DESIGN SPEED 30 MPH.



NOTE: ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL VOLUME IV.
 STANDARD SPECIFICATION AND DETAILS FOR CONSTRUCTION.

TYPICAL ROADWAY SECTION
 NO SCALE

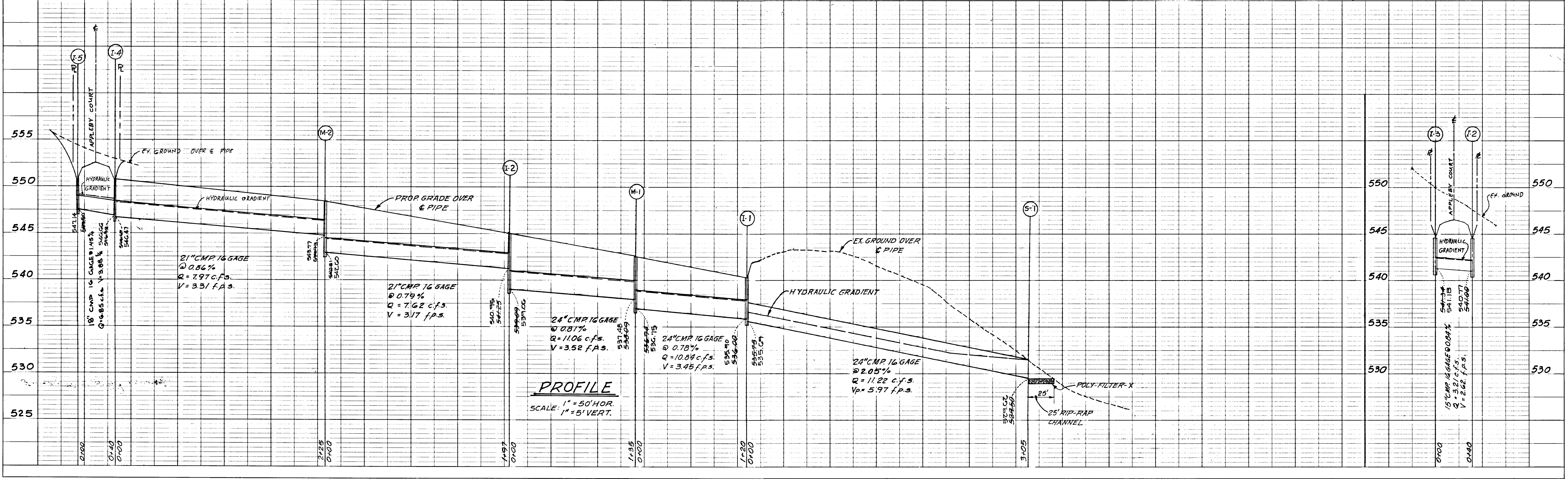
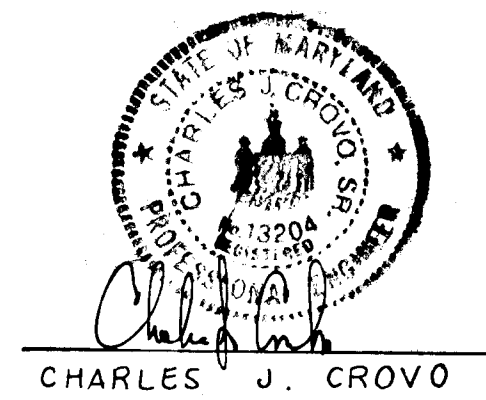
SHARP FARMS
 LOTS 17 - 31
 A RESUBDIVISION OF LOTS 15 AND PARCEL 'A'
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

APPLEBY COURT
 PLAN & STORM DRAIN PROFILE

OWNER AND DEVELOPER
 CHARLES A. SHARP
 3779 SHARP ROAD
 GLENWOOD, MARYLAND 21738

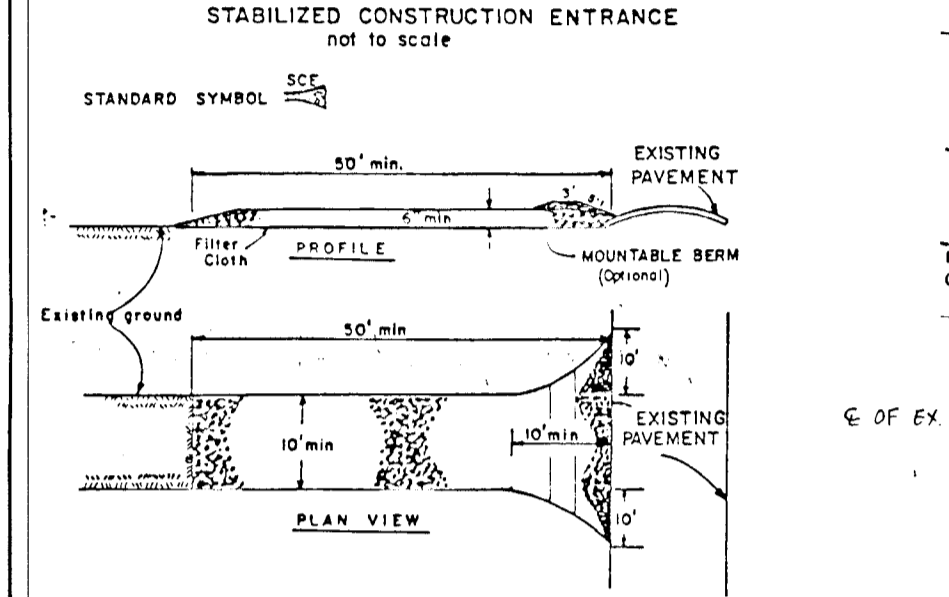
SCALE AS SHOWN DATE 7-3-1989 DWG. NO. 2 OF 5
 DES. Z. Y. FISCH DRN. A.S. CHK. C. J. CROVO

FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



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- SEEDING CONTROL NOTES:
- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION...
 - 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 1:1; b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETERS IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOG (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.
 - 6) 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.
 - 7) SITE ANALYSIS:
 - TOTAL AREA OF SITE: 66.889 ACRES
 - AREA DISTURBED: 15.24 ACRES
 - AREA TO BE ROOFED OR PAVED: 1.84 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 50.809 ACRES
 - TOTAL CUT: 15,000 CU. YDS.
 - TOTAL FILL: 15,000 CU. YDS.
 - OFFSITE WASTE/BORROW AREA LOCATION: N/A
 - 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED OR DESTROYED BY PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - 9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
 - 10) 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 APPROVAL MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.



- CONSTRUCTION SPECIFICATIONS
1. Stone Size - One (1) inch or smaller, or crushed concrete equivalent.
 2. Length - As required, but not less than 30 feet except on a single residence lot where a 20 foot minimum length would apply.
 3. Thickness - Not less than 4 inches.
 4. Width - Ten (10) foot minimum, but not less than the full width at points where lines diverge.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter cloth shall be placed on a stone family coarse sand.
 6. Surface Water - All surface water flowing or diverted toward construction activities shall be directed across the entrance. If sipping is impractical, a mountable beam with 2" slope will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment into public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanup of any measures used to trap sediment. All sediment applied, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area established with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.

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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Charles J. Crovo
SIGNATURE OF ENGINEER
1/3/99
DATE

DEVELOPER'S CERTIFICATE

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

Charles J. Crovo
SIGNATURE OF DEVELOPER
11/2/89
DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MET TECHNICAL REQUIREMENTS.

John L. Robertson
HOWARD SOIL CONSERVATION DISTRICT
11/21/89
DATE

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

APPROVED: *John L. Robertson* 1/3/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

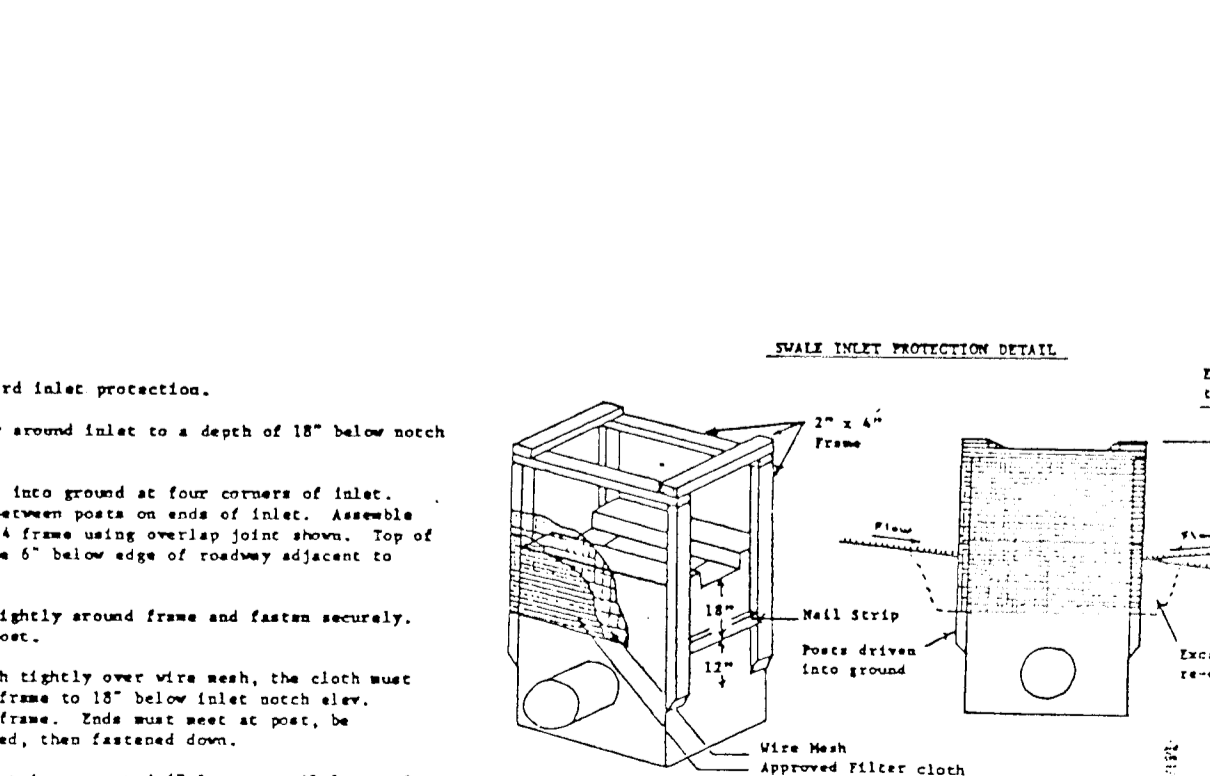
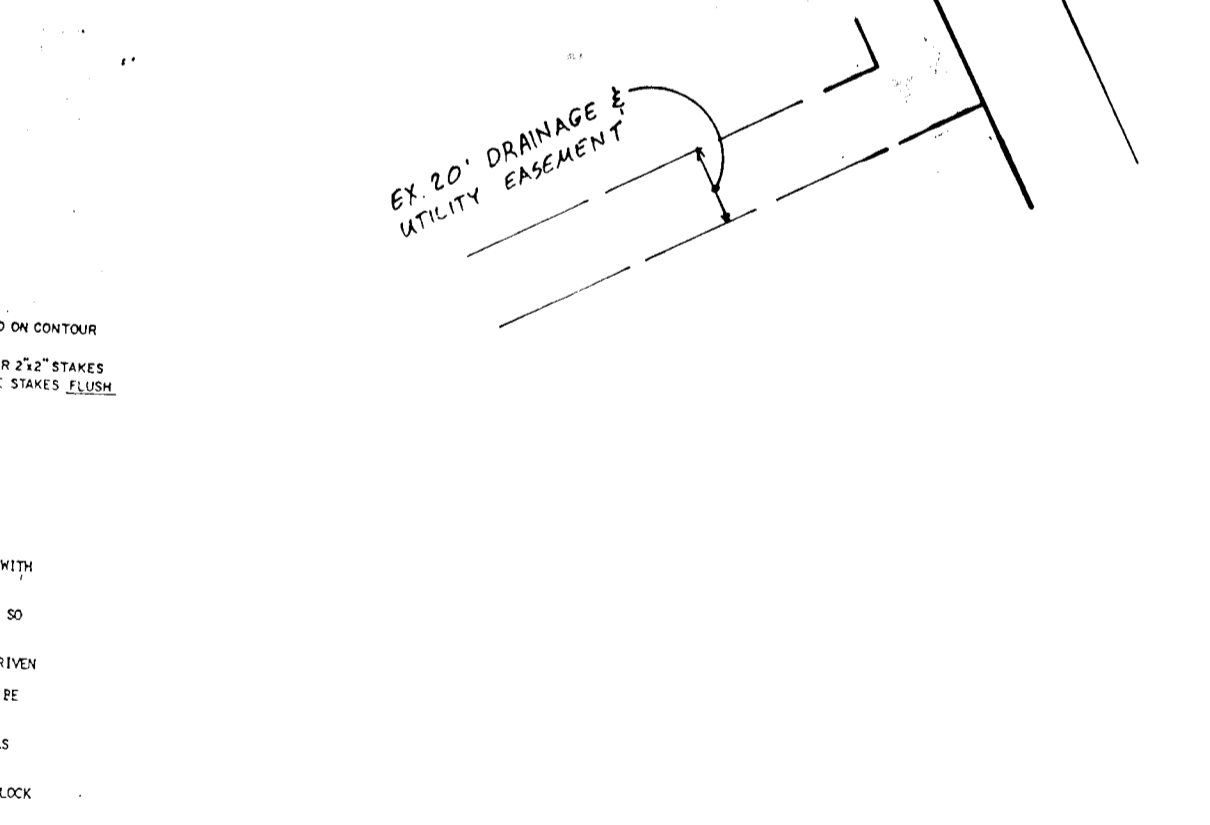
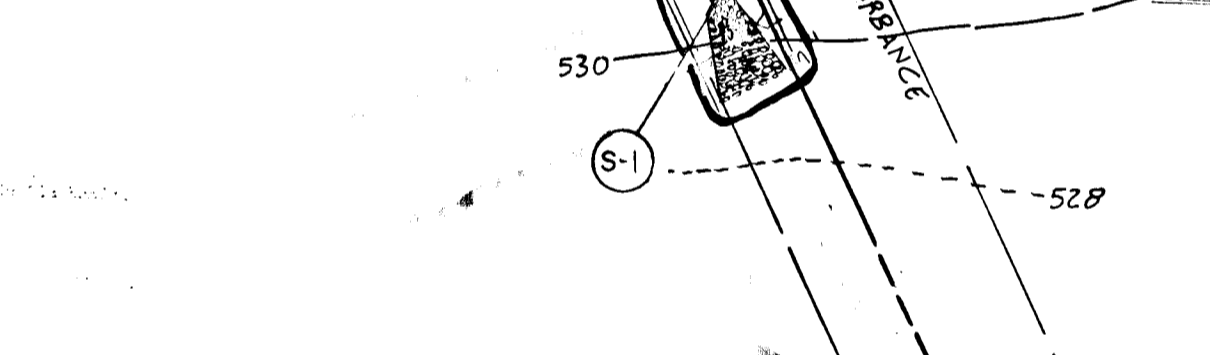
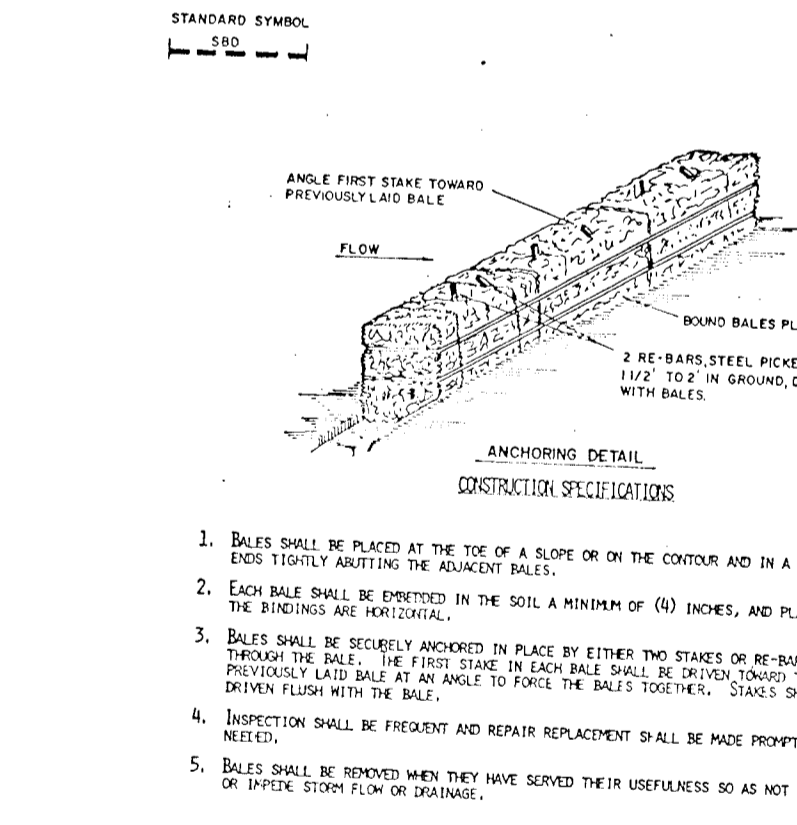
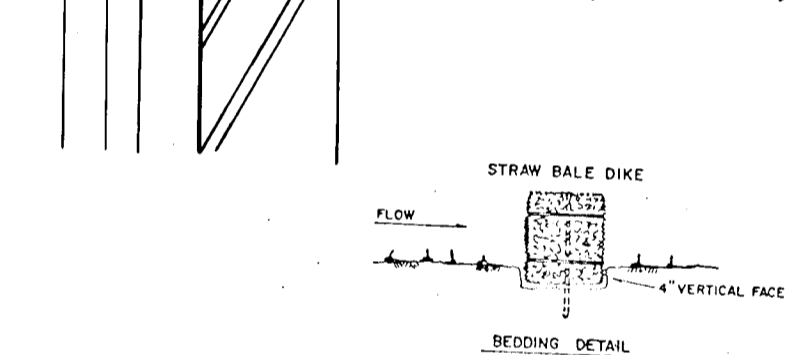
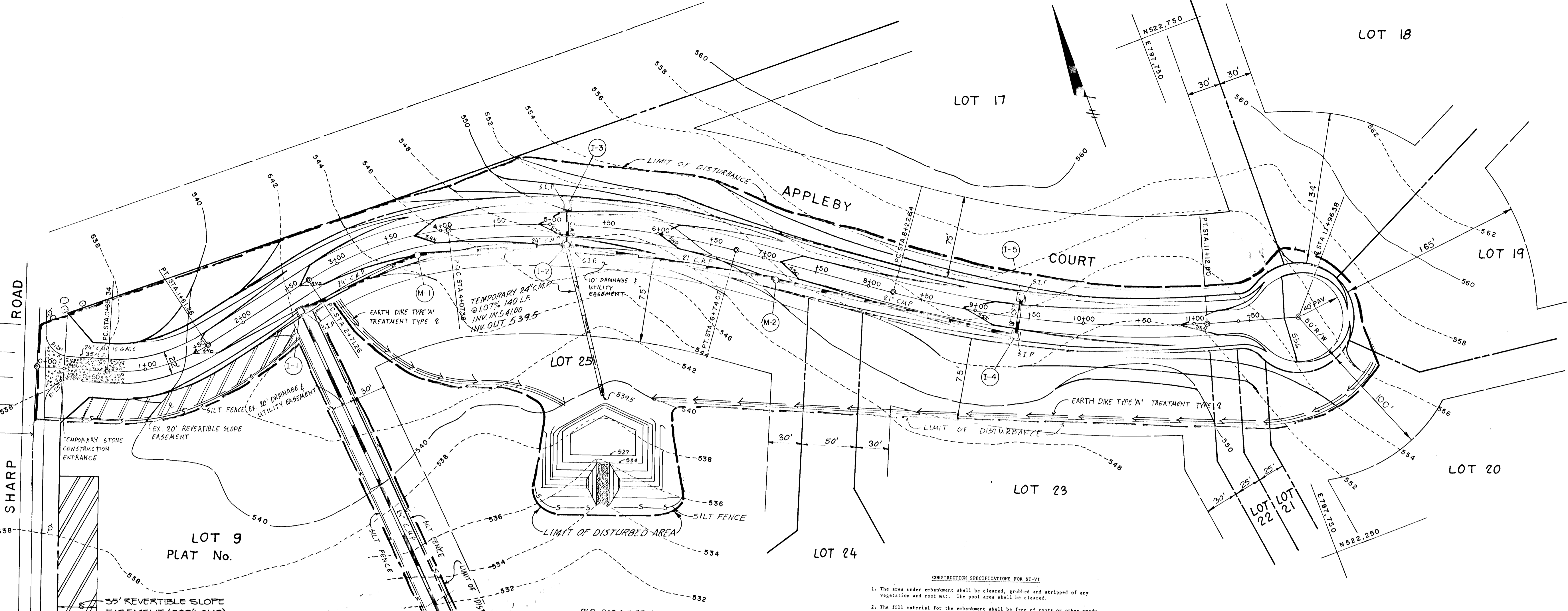
APPROVED: *William M. Williams* 12/18/89
CHIEF, BUREAU OF ENGINEERING

APPROVED: DEPARTMENT OF PUBLIC WORKS

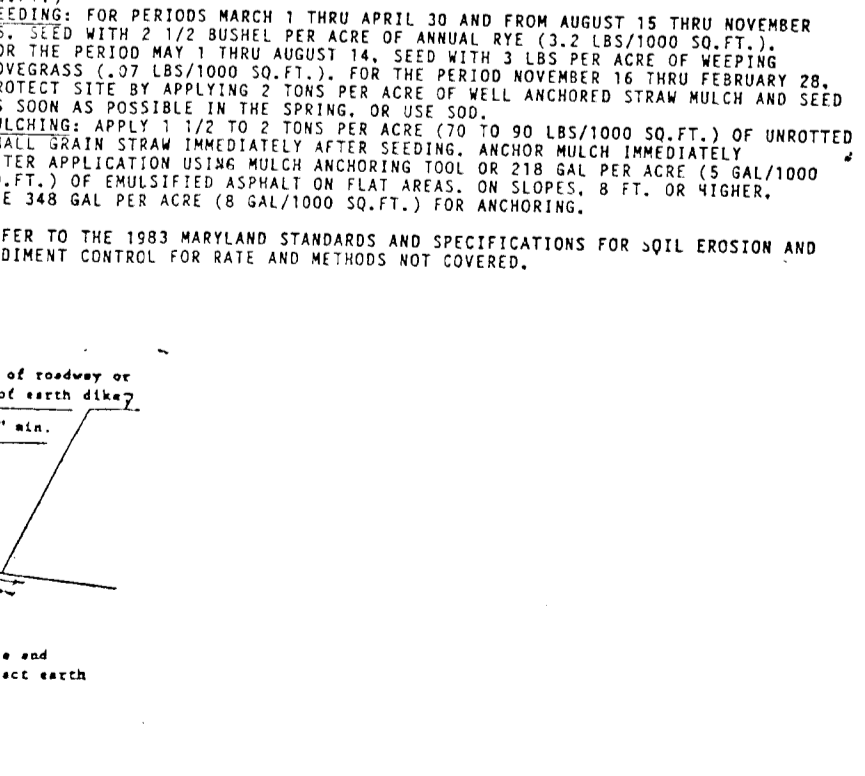
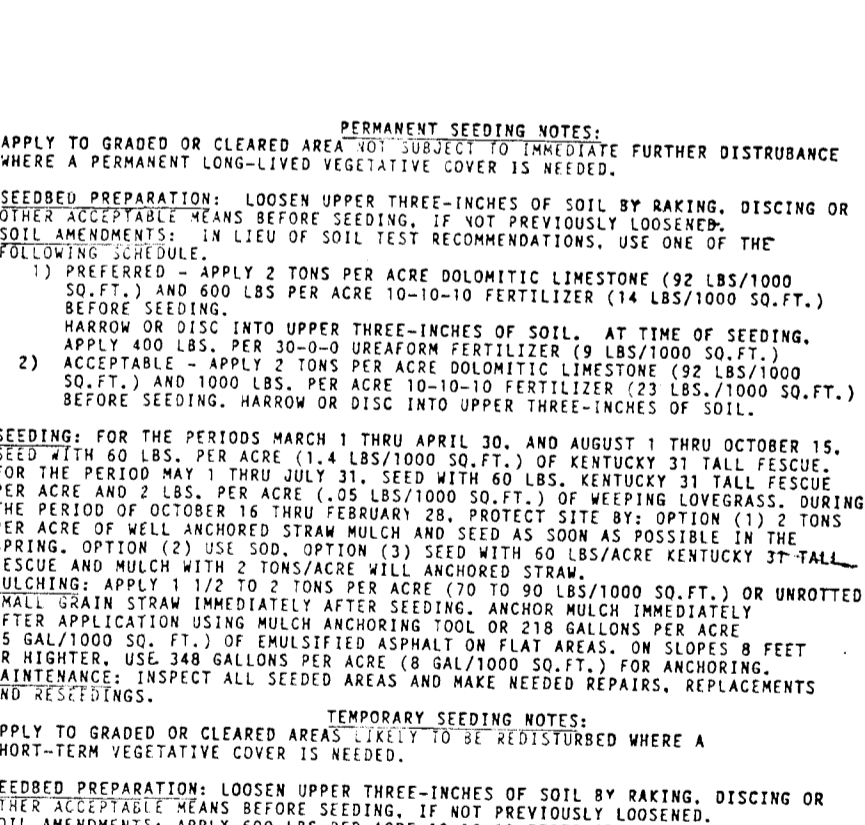
Franklin W. Chesnut 12/18/89
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PUBLIC WORKS

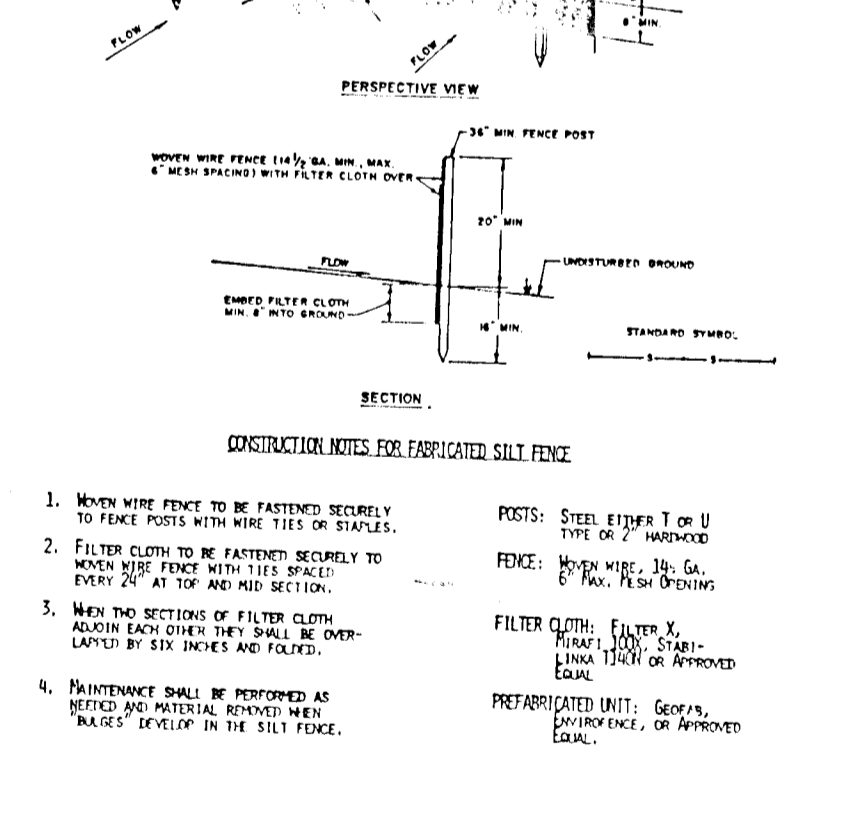
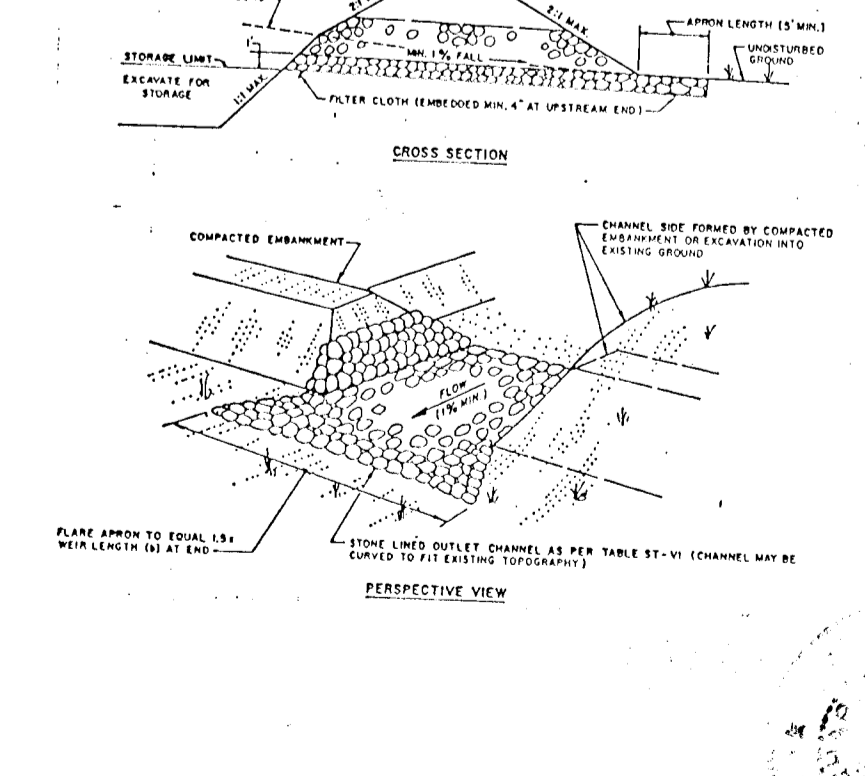
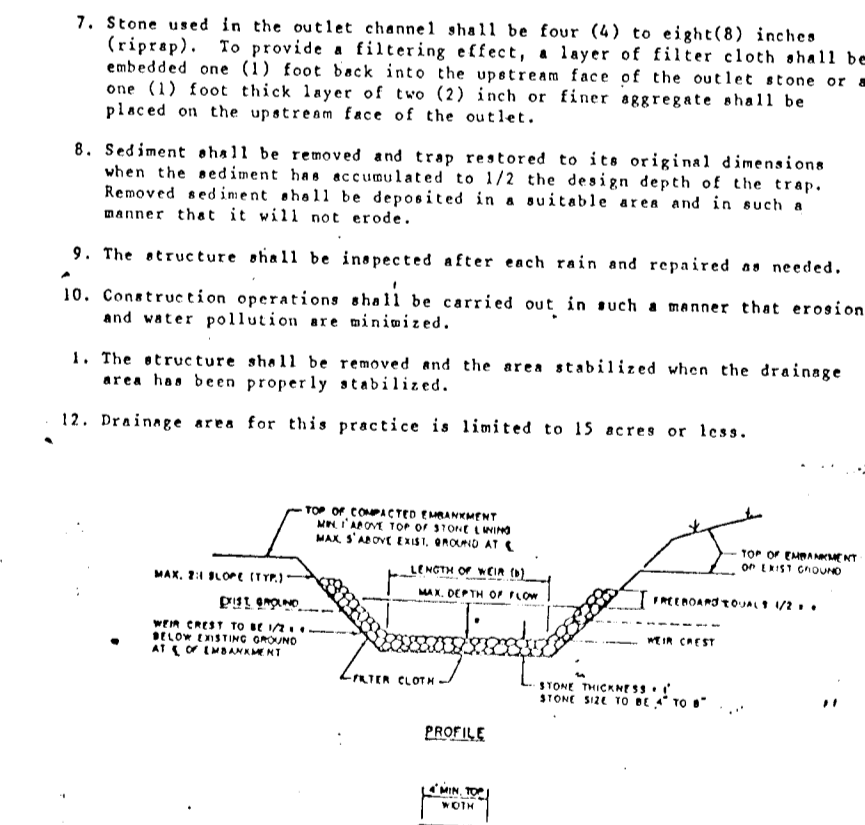
Donald B. Seaman 12/18/89
CHIEF, LAND DEVELOPMENT DIVISION



PERMANENT SEEDING NOTES:
APPLY TO GRADED OR CLEARED AREA SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-TERM VEGETATIVE COVER IS REQUIRED.
SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR SOIL AMENDMENTS; IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SOIL AMENDMENTS:
1) 200 LBS PER ACRE OF SUPERPHOSPHATE (14 LBS/1000 SQ. FT.) OR 100 LBS PER ACRE OF 0-10-10 FERTILIZER (23 LBS./1000 SQ. FT.) BEFORE SEEDING.
2) 2 TONS PER ACRE OF DOLOMITIC LIMESTONE (OR 80 LBS./1000 SQ. FT.) OR 1 TON PER ACRE OF 5-0-0 FERTILIZER (14 LBS./1000 SQ. FT.) BEFORE SEEDING.
3) 2 TONS PER ACRE OF DOLOMITIC LIMESTONE (OR 80 LBS./1000 SQ. FT.) OR 1 TON PER ACRE OF 5-0-0 FERTILIZER (14 LBS./1000 SQ. FT.) AFTER SEEDING.
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR PERIODS APRIL 1 THRU JULY 31, SEED WITH 60 LBS. PER ACRE OF KENTUCKY 31 TALL FESCUE. FOR PERIODS JULY 1 THRU FEBRUARY 28, PROTECT OF KEEPING LOGS, SORGHUM OR OTHER GRASS FOR PROTECTION OF SEEDING. FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR PERIODS APRIL 1 THRU JULY 31, SEED WITH 60 LBS. PER ACRE OF KENTUCKY 31 TALL FESCUE. FOR PERIODS JULY 1 THRU FEBRUARY 28, PROTECT OF KEEPING LOGS, SORGHUM OR OTHER GRASS FOR PROTECTION OF SEEDING. FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS. PER ACRE (14 LBS./1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR PERIODS APRIL 1 THRU JULY 31, SEED WITH 60 LBS. PER ACRE OF KENTUCKY 31 TALL FESCUE. FOR PERIODS JULY 1 THRU FEBRUARY 28, PROTECT OF KEEPING LOGS, SORGHUM OR OTHER GRASS FOR PROTECTION OF SEEDING.



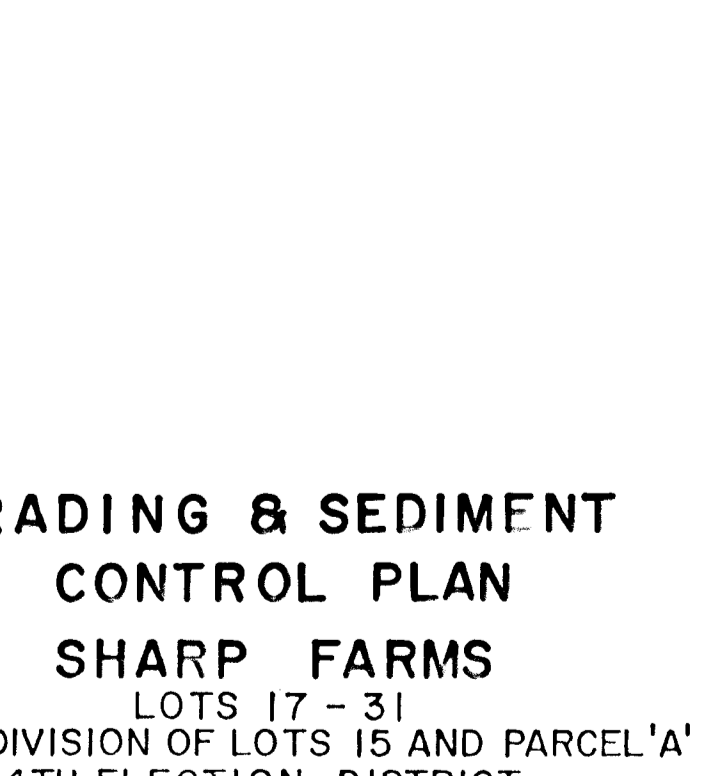
- CONSTRUCTION SPECIFICATIONS FOR ST-1V
1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil surface shall be cleared.
 2. The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be constructed by traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
 3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
 4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
 5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the level weir crest.
 6. Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least one (1) foot back into the upstream face of the outlet stone or a one (1) inch thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 7. Stone used in the outlet channel shall be four (4) to eight (8) inches (rippers). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) inch thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
 8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 9. The structure shall be inspected after each rain and repaired as needed.
 10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
 11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
 12. Drainage area for this practice is limited to 15 acres or less.



REVISION BY MY 7/3/91 ADDED 35' REVERSIBLE SLOPE EASEMENT

CONSTRUCTION NOTES FOR FERTILIZED SILT FENCE

NO.	DESCRIPTION	DATE
1	SEED WITH FESCUE 31 OR TALL FESCUE	11/2/89
2	SEED WITH SORGHUM	11/2/89
3	SEED WITH ALFALFA	11/2/89
4	SEED WITH ALFALFA	11/2/89
5	SEED WITH ALFALFA	11/2/89



GRADING & SEDIMENT CONTROL PLAN
SHARP FARMS
LOTS 17 - 31
A RESUBDIVISION OF LOTS 15 AND PARCEL 'A'
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 21 PARCEL P/O. 86
SCALE: AS SHOWN JULY 3, 1989
SHEET 3 OF 5

OWNER AND DEVELOPER
CHARLES A. SHARP
3779 SHARP ROAD
GLENWOOD, MARYLAND 21738

Charles J. Crovo
DATE 7/3/91

679

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

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 CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 SIGNATURE OF ENGINEER: *Charles J. Crovo* DATE: 7/3/89

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.
 SIGNATURE OF DEVELOPER: *Charles A. Sharp* DATE: 11/21/89

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT: APPROVED: *James M. Stiles* DATE: 11/21/89

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: *David L. Chilton* DATE: 11/21/89

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
Janet S. Wright DATE: 11/21/89

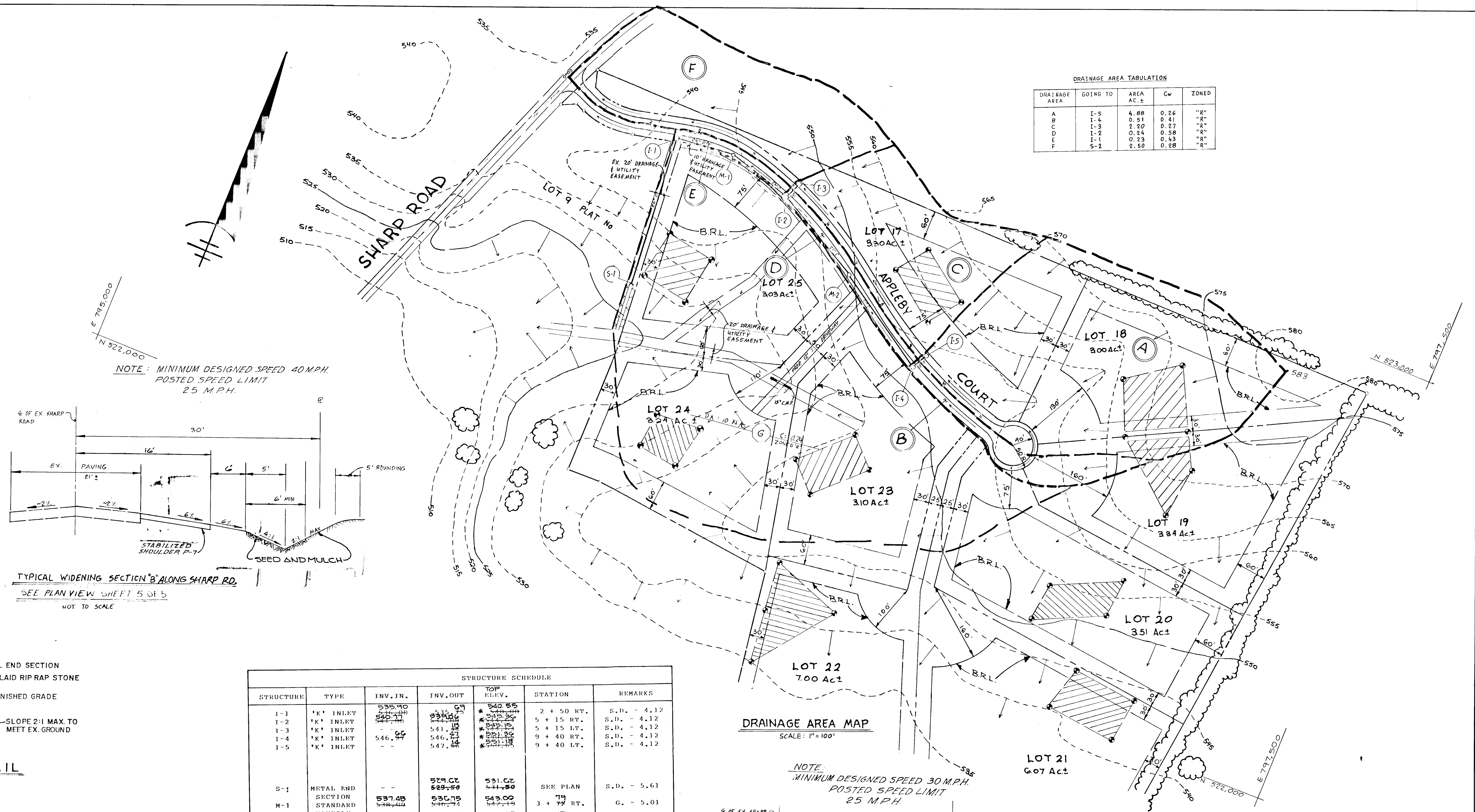
APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING
Debra L. S. S. S. DATE: 12/18/89

APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, DIVISION OF HIGHWAYS
Therese M. Williams DATE: 12/18/89

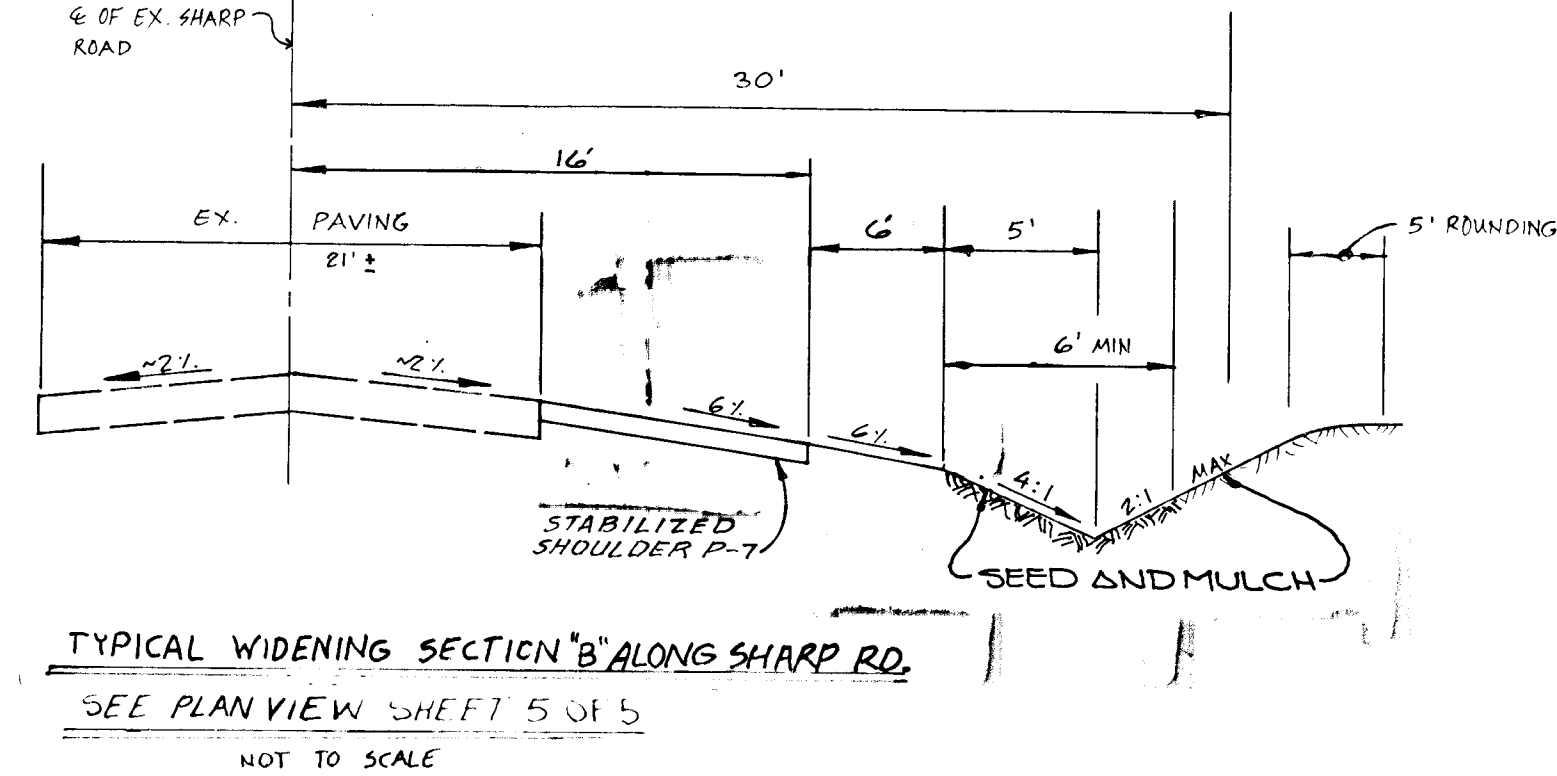
APPROVED: DEPARTMENT OF PUBLIC WORKS
 CHIEF, DIVISION OF TRAIL DIVISION
Ronald L. S. S. DATE: 12/18/89

DRAINAGE AREA TABULATION

DRAINAGE AREA	GOING TO	AREA AC. ±	C _w	ZONED
A	E-5	4.88	0.26	"R"
B	I-4	0.51	0.41	"R"
C	I-3	2.20	0.27	"R"
D	I-2	0.24	0.58	"R"
E	I-1	0.23	0.43	"R"
F	S-2	2.50	0.28	"R"



NOTE: MINIMUM DESIGNED SPEED 40 MPH.
 POSTED SPEED LIMIT 25 M.P.H.



STRUCTURE SCHEDULE

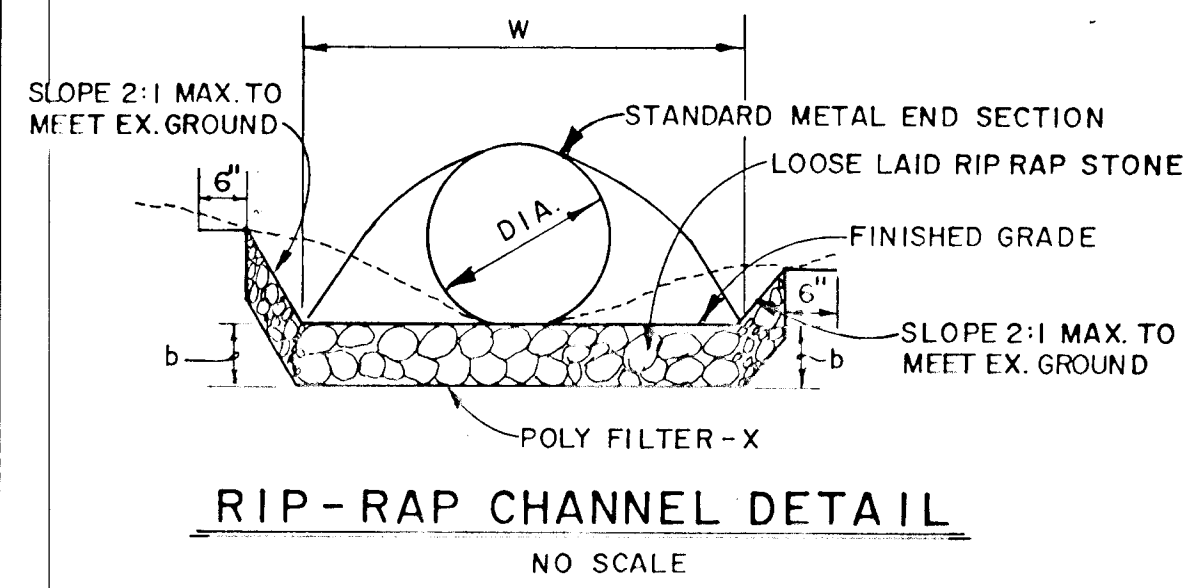
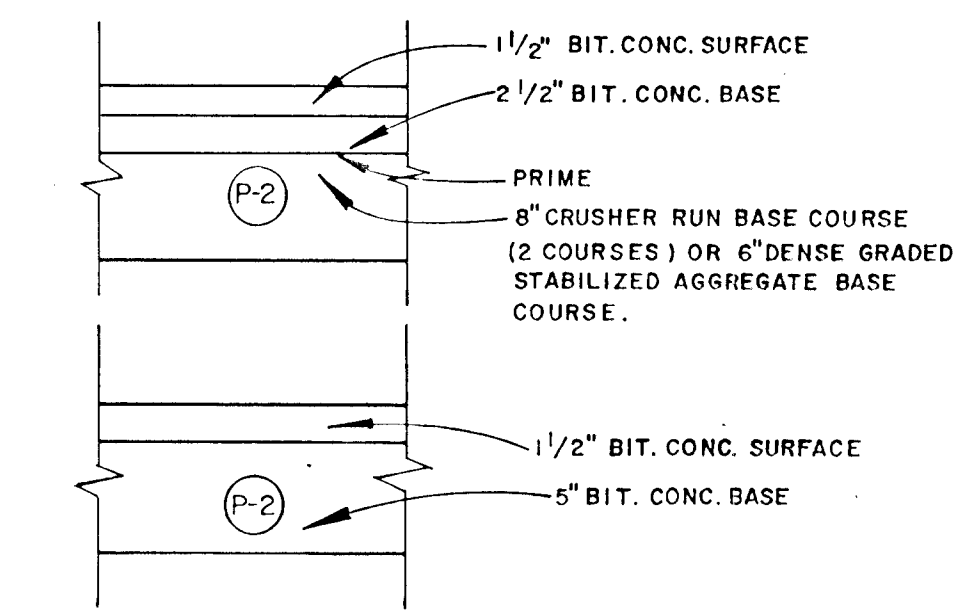
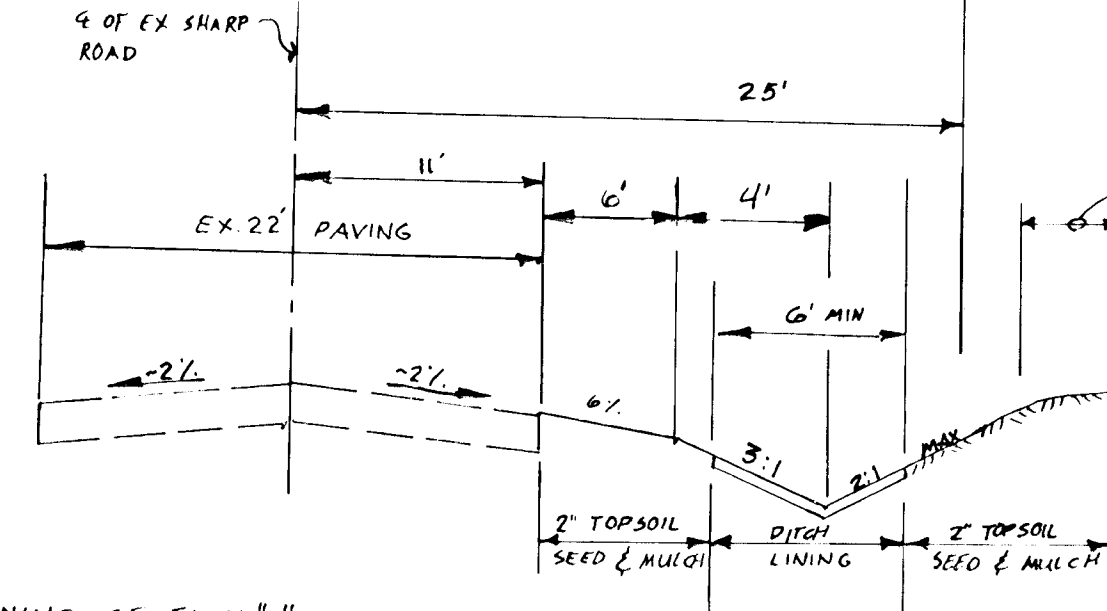
STRUCTURE	TYPE	INV. IN.	INV. OUT.	TOP HIGH.	STATION	REMARKS
I-1	'K' INLET	535.90	541.15	540.65	2 + 50 RT.	S.D. - 4.12
I-2	'K' INLET	540.77	546.02	545.25	5 + 15 RT.	S.D. - 4.12
I-3	'K' INLET	541.19	546.44	545.10	5 + 15 LT.	S.D. - 4.12
I-4	'K' INLET	546.29	551.54	550.10	9 + 40 RT.	S.D. - 4.12
I-5	'K' INLET	547.44	552.69	551.15	9 + 40 LT.	S.D. - 4.12
S-1	METAL END SECTION	529.62	529.62	531.62	SEE PLAN	S.D. - 5.61
M-1	STANDARD MANHOLE	537.45	537.75	543.00	3 + 72 RT.	G. - 5.01
M-2	STANDARD MANHOLE	543.77	544.07	548.00	7 + 14 RT.	G. - 5.01

* DENOTES THROST ELEV.

- CONSTRUCTION SEQUENCE**
- OBTAIN GRADING PERMIT.
 - INSTALL STRET BAIL DIKES OR SILT FENCE AS SHOWN ON SHEET 5 OF 5.
 - WIDEN AND GRADE SHARP ROAD ACCORDING TO TYPICAL WIDENING SECTIONS ON SHEET 4 OF 5 AND PLAN VIEW ON SHEET 5 OF 5.
 - CONSTRUCT STONE CONSTRUCTION ENTRANCE.
 - CONSTRUCT SEDIMENT CONTROL TRAP.
 - INSTALL SILT FENCE AND EARTH DIKES AS SHOWN ON SHEET 3 OF 5.
 - INSTALL STORM DRAIN SYSTEM FROM S-1 TO I-5.
 - INSTALL S.I.P. # I-1, I-2, I-3, I-4 AND I-5.
 - CLEAR APPLEBY COURT TO SUBGRADE.
 - GRADE SCOPE AREAS BETWEEN EXISTING GROUND AND EDGE OF PAVING.
 - DURING CONSTRUCTION SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAP WHEN THE CLEAROUT ELEVATION HAS BEEN REACHED.
 - REMOVE STONE CONSTRUCTION ENTRANCE.
 - CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE. STABILIZE ALL AREAS USING PERMANENT SEEDING.
 - REMOVE SEDIMENT TRAP, SILT FENCE AND EARTH DIKES ONCE DISTURBED AREAS HAVE BEEN STABILIZED.
 - INSTALL RIP-RAP AT OUTFALLS AS SHOWN ON PLAN.
 - ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.

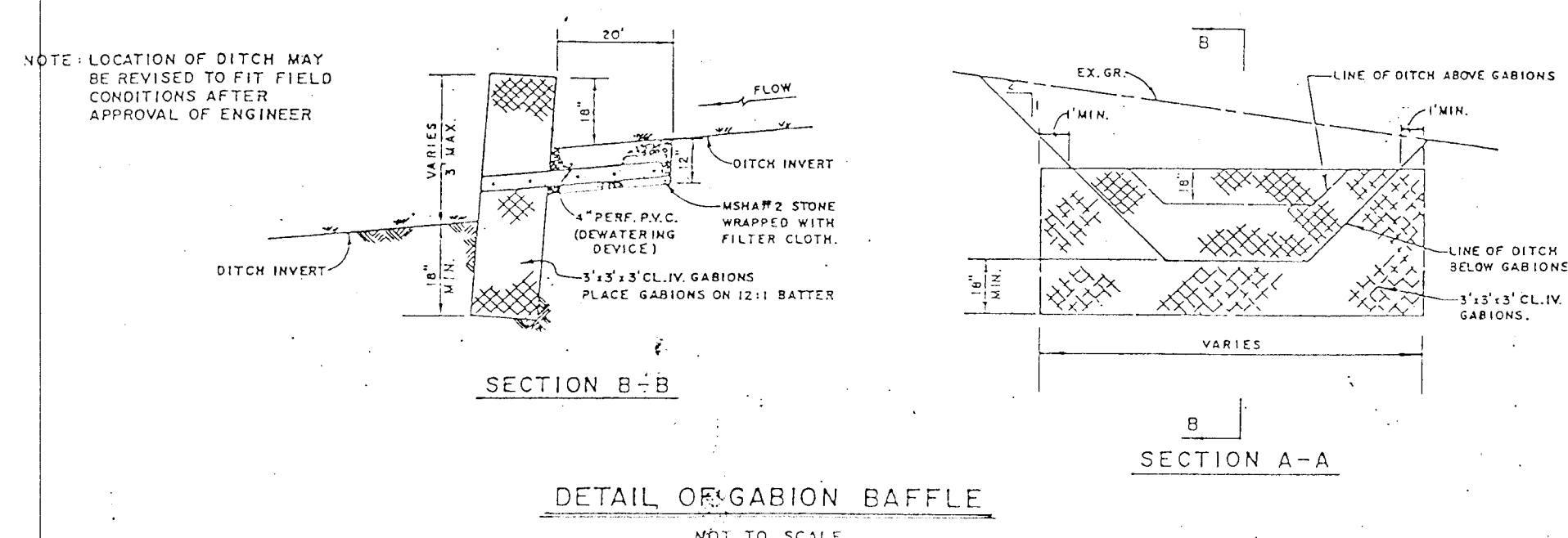
DRAINAGE AREA MAP
 SCALE: 1"=100'

NOTE: MINIMUM DESIGNED SPEED 30 MPH.
 POSTED SPEED LIMIT 25 MPH.



RIP-RAP CHANNEL DESIGN DATA

STRUCTURE	A #	P ft.	R	R/2/3	S%	S/2	n	Qc.f.s.	V f.p.s.	d ft.	W ft.	RIE-RAP SIZE	d MAX	b
I-3	47B	8.71	0.5488	0.4703	0.01	0.10	0.04	11.90	2.49	0.68	5.67	4"	6"	9"



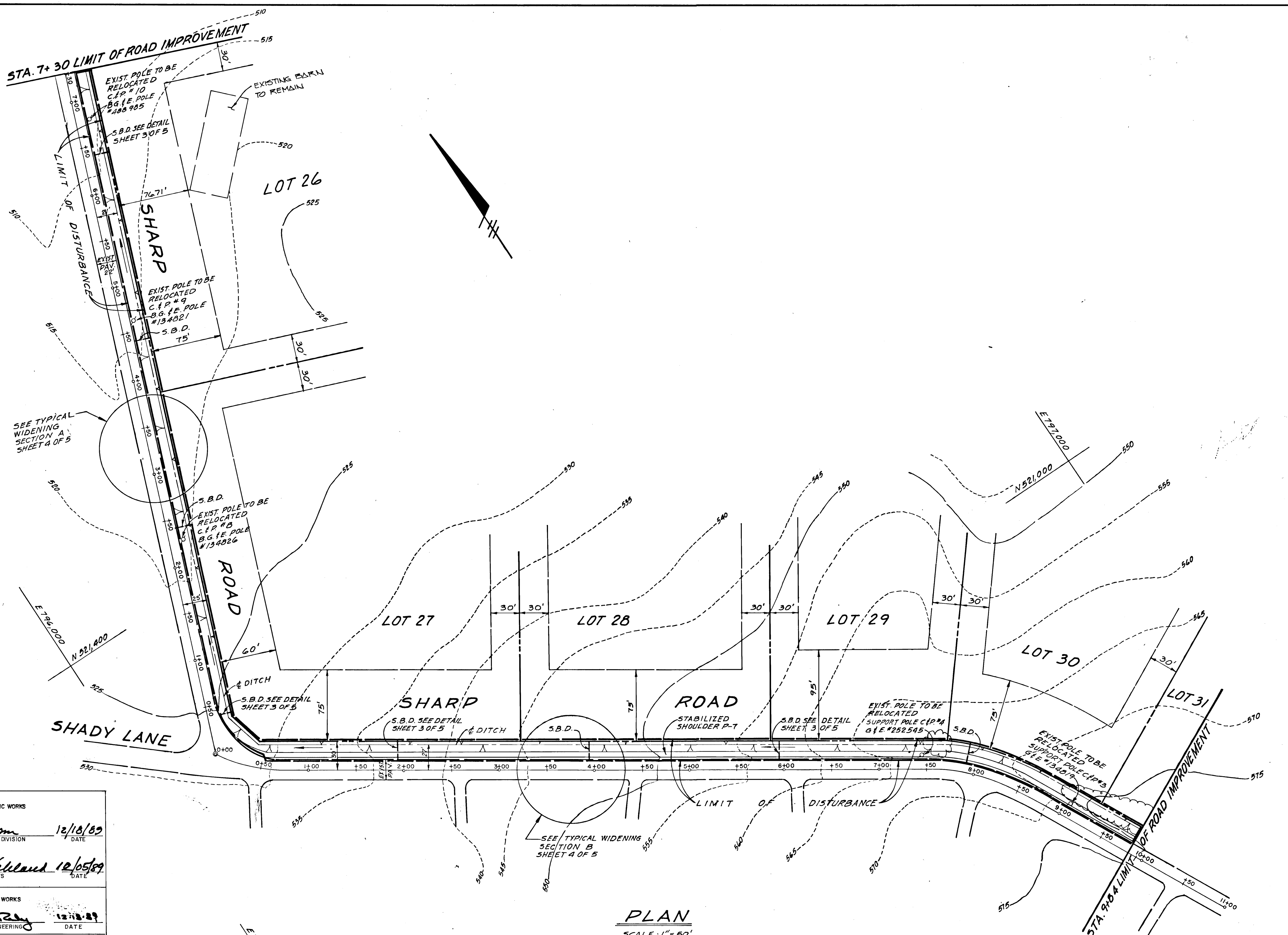
DRAINAGE AREA MAP AND DETAILS
SHARP FARMS
 LOTS 17-31
 A RESUBDIVISION OF LOTS 15 AND PARCEL 'A'
 4TH. ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 TAX MAP 21 PARCEL P/O. 86
 SCALE: AS SHOWN JULY 3, 1989
 SHEET 4 OF 5

FISHER, COLLINS AND CARTER, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8888 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043

REVISION BY M.Y. 9/16/91 MODIFY THE TYPICAL WIDENING SECTION OF SHARP ROAD.

OWNER AND DEVELOPER
 CHARLES A SHARP
 3779 SHARP ROAD
 GLENWOOD, MARYLAND 21738

Charles J. Crovo
 CHARLES J. CROVO SR. DATE: 7/3/89



APPROVED
DEPARTMENT OF PUBLIC WORKS

Donald W. Leggett 12/18/89
CHIEF, LAND DEVELOPMENT DIVISION DATE

Granville W. McElwain 12/05/89
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS

W. C. Mason & R. J. Rhy 12/18/89
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPARTMENT OF PLANNING AND ZONING

David S. J. Taylor 12/18/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

REVISION BY M.Y. 9/16/91 CHANGE
EXISTING STRUCTURE TO BE REMOVED
INTO EXISTING STRUCTURE TO REMAIN.

PLAN
SCALE: 1" = 50'

OWNER AND DEVELOPER
CHARLES A. SHARP
3719 SHARP ROAD
GLENWOOD, MARYLAND 21738



Charles J. Crovo Sr. 7/13/89
CHARLES J. CROVO SR. DATE

ROAD IMPROVEMENTS
SHARP FARMS
LOTS 17 - 31
A RESUBDIVISION OF LOTS 15 AND PARCEL 'A'
4TH. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
TAX MAP 21 PARCEL P/O. 86
SCALE: AS SHOWN SEPT. 28, 1989
SHEET 5 OF 5