

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET.
2	ROAD PLAN AND PROFILE.
3	ROAD PLAN AND PROFILE.
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5	GRADING AND SEDIMENT CONTROL PLAN.
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7	S.W.M. PROFILES, STREAM DIVERSION NOTES AND DETAILS.
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9	DRAINAGE AREA MAP
10	ROAD PLAN - UNION CHAPEL ROAD

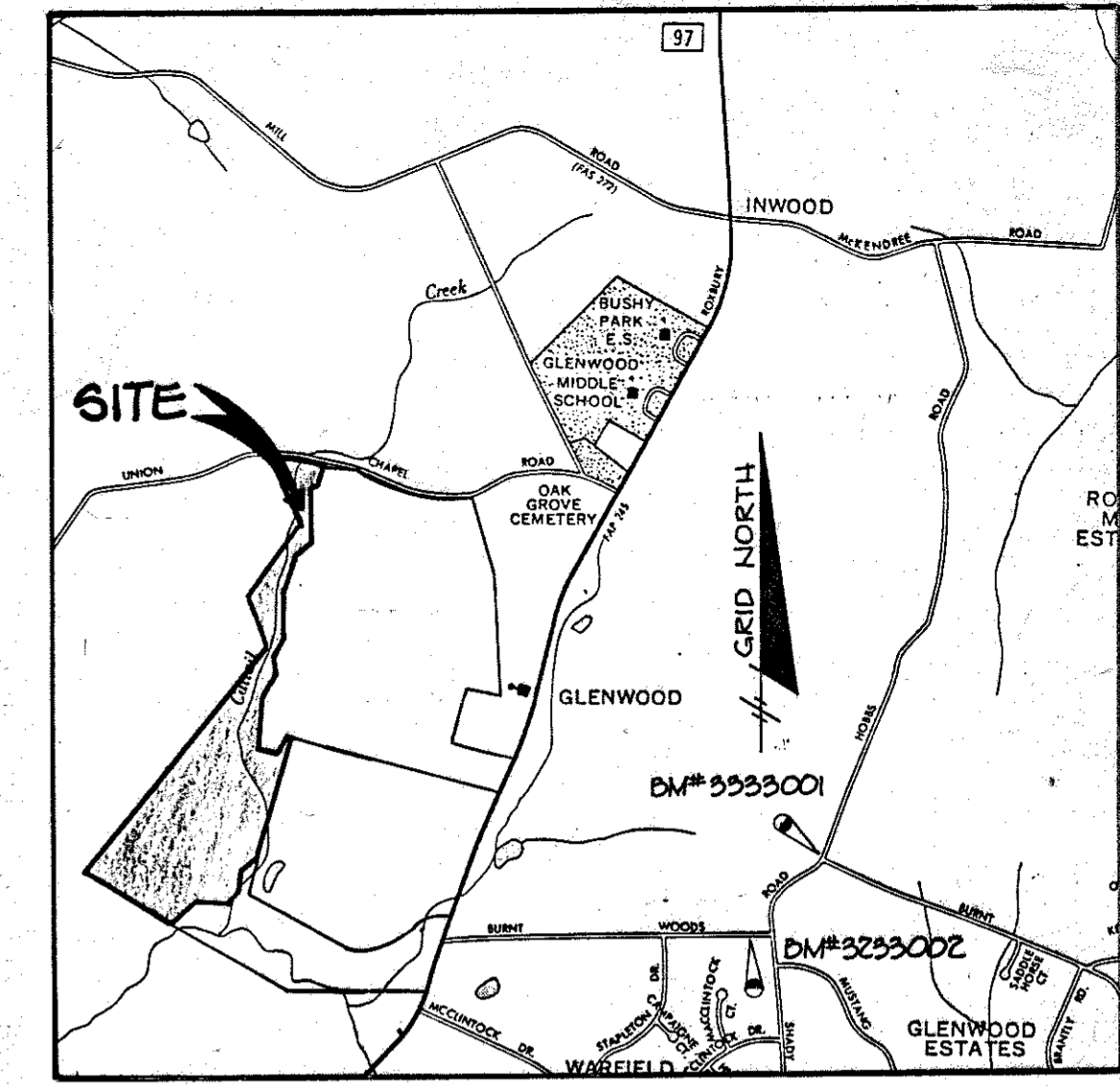
ROADWAY & STORM DRAIN

WELLINGTON

SECTION 2, AREA 1

4th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'

BENCH MARK DESCRIPTION

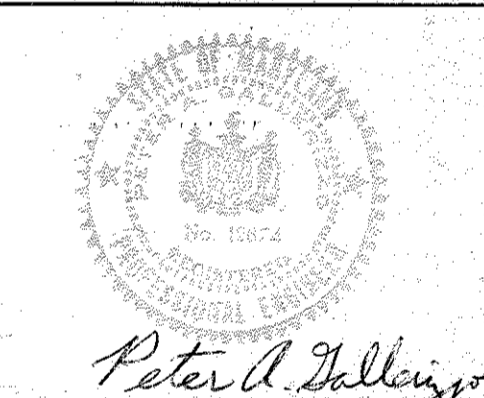
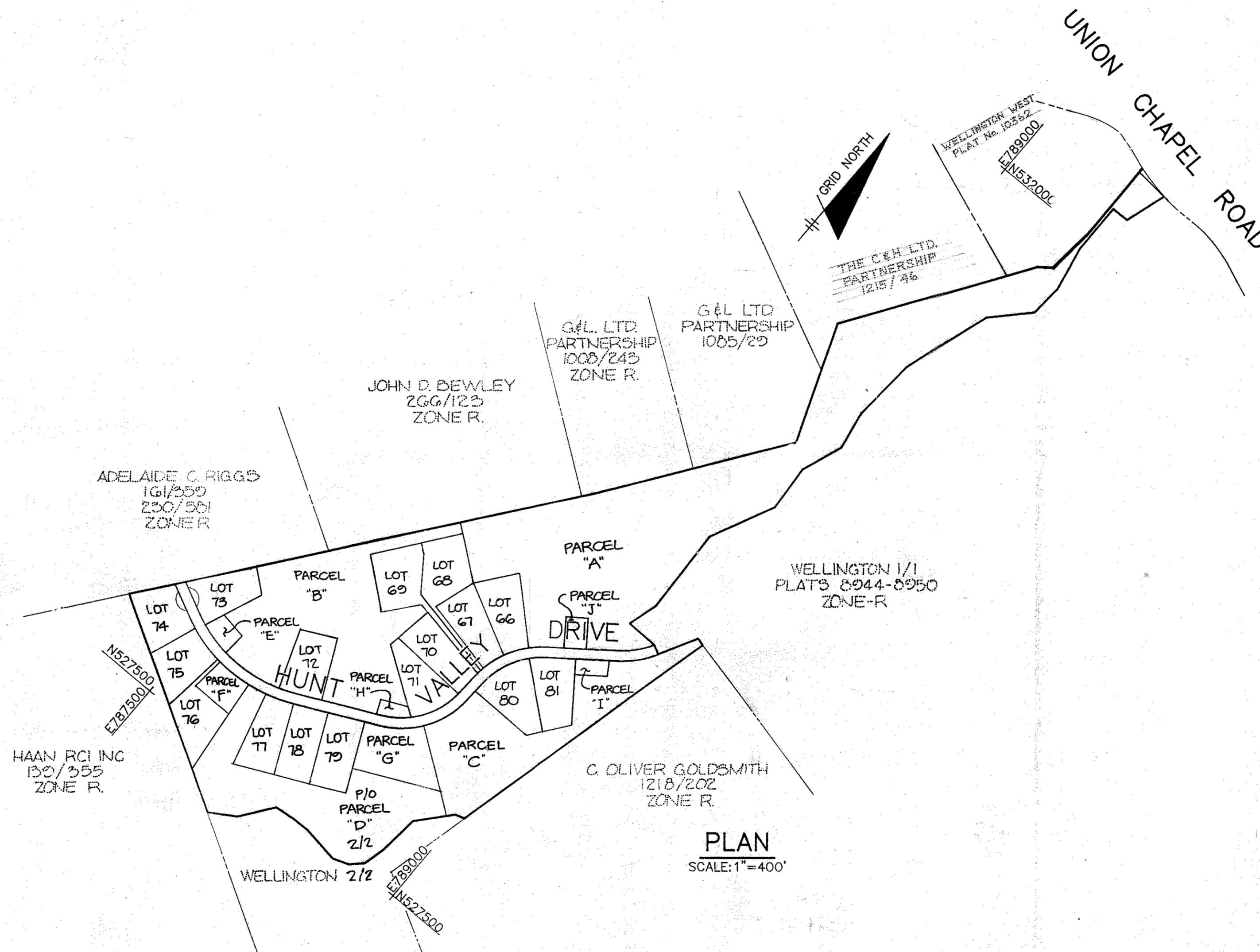
BM# 3253002
CONCRETE MONUMENT 0.5' BELOW SURFACE 23.5' OFF E. BURKITT WOODS ROAD

BM# 3253001
CONCRETE MONUMENT 0.5' BELOW SURFACE 1' FROM WITNESS POST.

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES, WHERE DIRECTED BY THE ENGINEER, A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- CONTRACTOR TO NOTIFY THE FOLLOWING UTILITIES AT LEAST THREE DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.

BELL TELEPHONE SYSTEM	393-3649
LONG DISTANCE CABLE DIVISION	393-3553 OR 3554
BALTIMORE GAS AND ELECTRIC	539-8000 EXT. 691
HOWARD COUNTY BUREAU OF UTILITIES	992-2386
HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION	992-2417 OR 2418
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 20.0' RADI UNLESS OTHERWISE NOTED.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
- INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1988 EDITION.
- PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIAL STANDARDS.
 - ALL CUL-DE-SAC DESIGNED FOR 30 M.P.H., ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.
- ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTER.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT \ominus ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SUBJECT PROPERTY ZONED RC-DE0,10-18-99 COMPREHENSIVE ZONING PLAN.
- TOPO TAKEN FROM FIELD RUN SURVEY BY TRACY, SCHULTE & ASSOCIATES DATED SEPT. 1998, AND AERIAL PHOTOGRAMMETRY.
- ALL STORM DRAIN BANDS AND STRAPS SHALL BE WATER TIGHT.
- DRIVEWAY FOR LOT 76 SHALL BE SHARED WITH ACCESS DRIVE TO SWM POND NO. 4. DRIVEWAY SHALL BE 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.



3	12-4-95	REVISION DUE TO RE-SUBDIVISION, LOTS, TREES GUARDRAIL, INFILTRATION TRENCH STATION	<i>Peter A. Dalling</i>
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS			
<i>Walter Owens</i>		12/10/95	DATE
CHIEF, LAND DEVELOPMENT DIVISION			
<i>Stanville W. Heiland</i>		12/7/90	DATE
CHIEF, BUREAU OF HIGHWAYS			
<i>William S. Reay</i>		12-13-90	DATE
CHIEF, BUREAU OF ENGINEERING			
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING			
<i>Mark J. Campbell</i>		12/19/95	DATE
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT			
12-9-92	ELIMINATE OFFSITE IMPROVEMENT TO UNION CHAPEL ROAD (SHEET 10 OF 10)		
7-1-95	CORRECT PROFILE FOR TWIN 100" SUBVERT (CMT 4) AND STRUCTURE SCHEDULE C (SHEET 6)		
NO	DATE	REVISION	

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planning • architecture • engineering

8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

James K. Strey

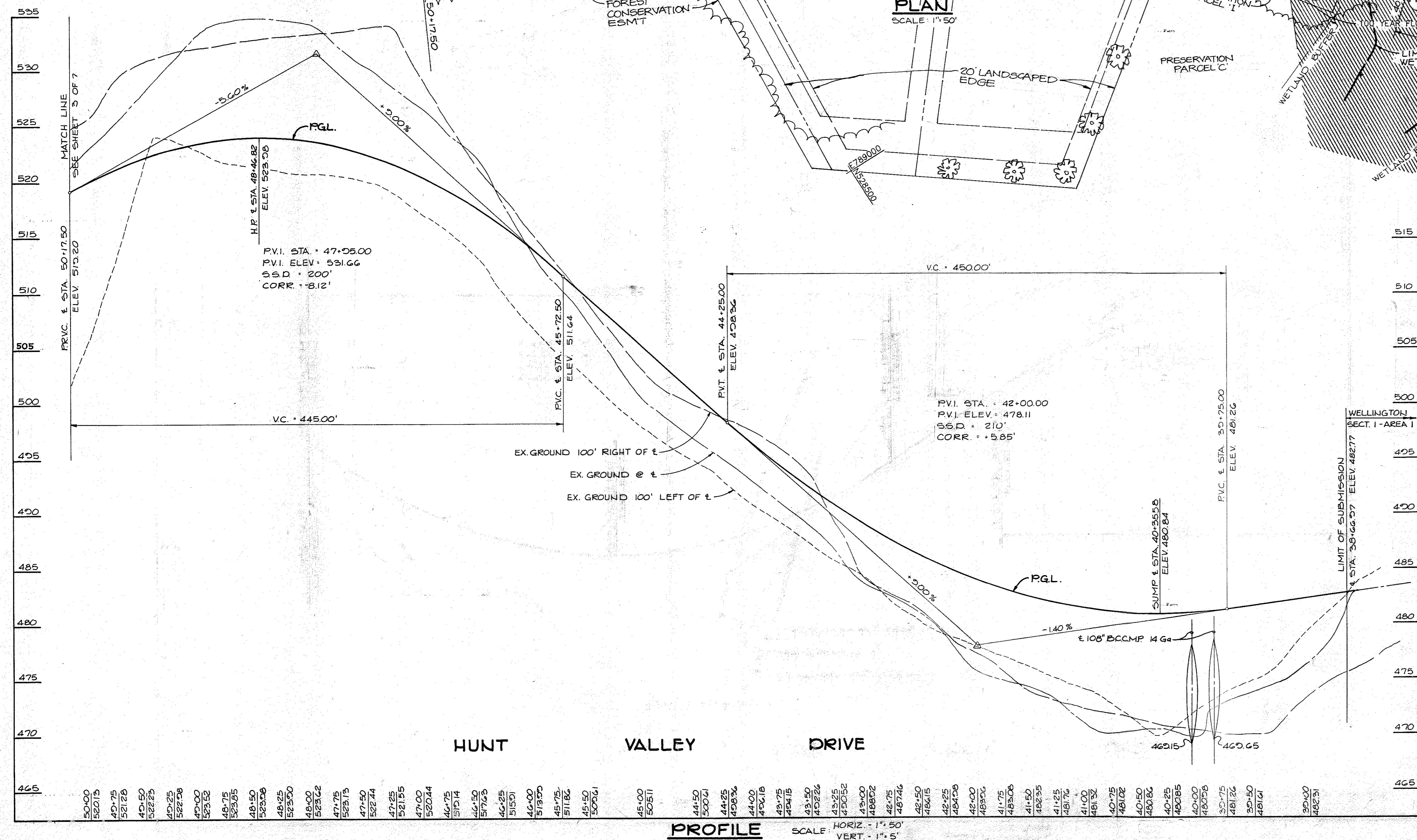
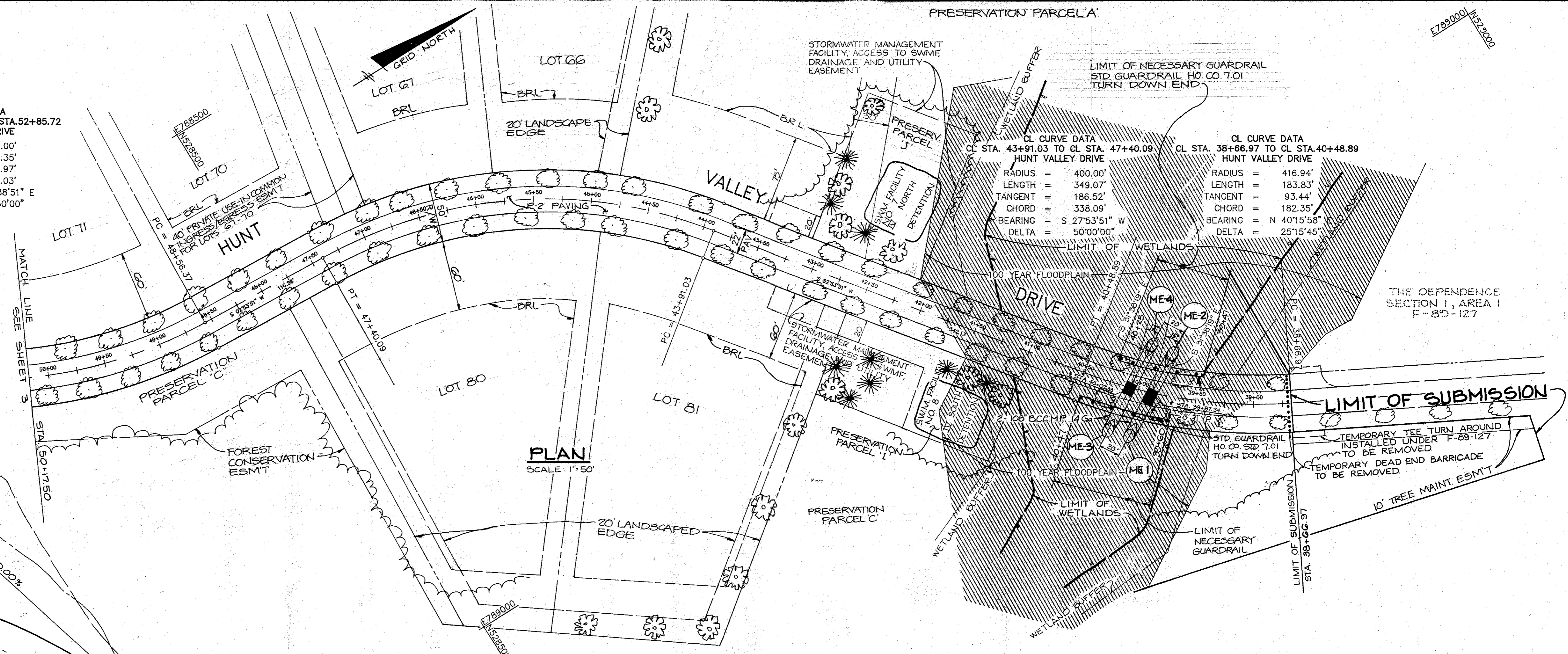
OWNER: SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT: WELLINGTON SECTION TWO, AREA ONE LOCATION TAX MAP 14&21, PARCELS 73&74 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER: SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	TITLE SHEET F 90-67 P 00-00 3 00-04 SP-26-03 DATE: SEPT 28, 1995 OCT 12, 1990 PROJECT NO. 0000
DES: SJB	DRN: FDM/JCA
SCALE: AS SHOWN	DRAWING: 1 OF 10

1488

CL CURVE DATA
 CL STA. 48+56.37 TO CL STA. 52+85.72
 HUNT VALLEY DRIVE
 RADIUS = 400.00'
 LENGTH = 429.35'
 TANGENT = 237.97'
 CHORD = 409.03'
 BEARING = N 33°38'51" E
 DELTA = 61°30'00"

CL CURVE DATA
 CL STA. 43+91.03 TO CL STA. 47+40.09
 HUNT VALLEY DRIVE
 RADIUS = 400.00'
 LENGTH = 349.07'
 TANGENT = 186.52'
 CHORD = 338.09'
 BEARING = S 27°53'51" W
 DELTA = 50°00'00"

CL CURVE DATA
 CL STA. 38+66.97 TO CL STA. 40+48.89
 HUNT VALLEY DRIVE
 RADIUS = 416.94'
 LENGTH = 183.83'
 TANGENT = 93.44'
 CHORD = 182.35'
 BEARING = N 40°15'58" E
 DELTA = 25°15'45"



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, LAND DEVELOPMENT DIVISION
 CHIEF, BUREAU OF HIGHWAYS
 CHIEF, BUREAU OF ENGINEERING

DATE: 12/26/90
 DATE: 12/7/90
 DATE: 12-13-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

DATE: 12/13/90

NO. DATE REVISION

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OWNER: SECURITY DEVELOPMENT CORP.
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 (301) 465-4244

DEVELOPER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-4244

DES. SJB DRN. FDM/JCA

PROJECT: WELLINGTON
 SECTION TWO, AREA ONE
 LOCATION: TAX MAP 14&21, PARCELS 73&74
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: ROAD PLAN AND PROFILE

DATE: SEPT. 22, 1989
 OCT. 12, 1990

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

PROJECT NO. 00000
 DRAWING 2 OF 10

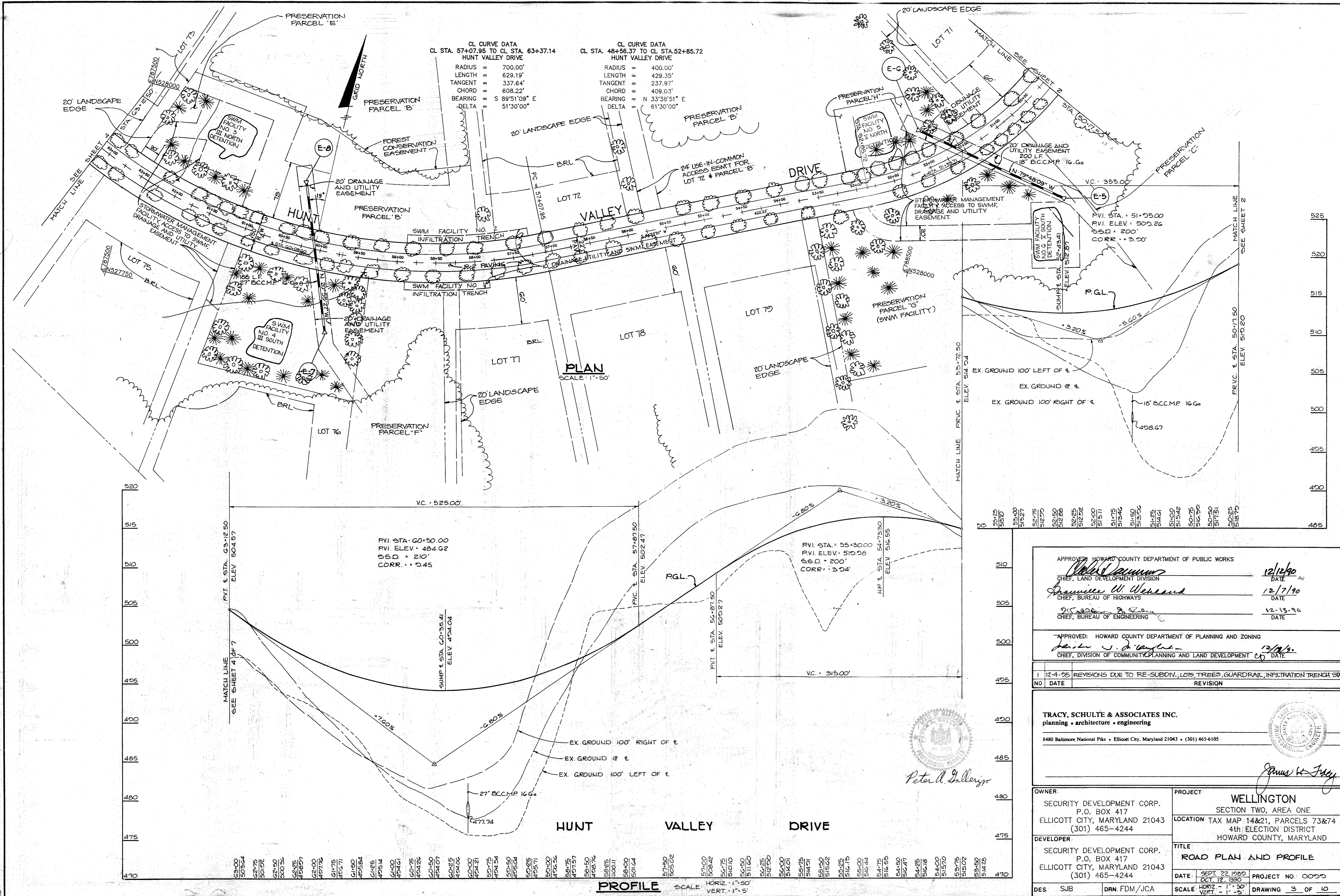
E782000 A122000

Peter J. Galligan

Tracy Schulte & Associates Inc.

F-90-67

1488



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Robert Damann
 CHIEF, LAND DEVELOPMENT DIVISION
 DATE: 12/12/90

Francis W. Weiland
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 12/7/90

James H. Tracy
 CHIEF, BUREAU OF ENGINEERING
 DATE: 12-13-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
James H. Tracy
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE: 12/12/90

NO	DATE	REVISION
1	12-4-95	REVISIONS DUE TO RE-SUBDIV., LOTS, TREES, GUARDRAIL, INFILTRATION TRENCH STA.

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Peter A. Gallenjo

OWNER: SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT: WELLINGTON SECTION TWO, AREA ONE LOCATION TAX MAP 14&21, PARCELS 73&74 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER: SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	TITLE: ROAD PLAN AND PROFILE
DES: SJB	DRN. FDM./JCA
DATE: SEPT. 22, 1990 OCT. 12, 1990	PROJECT NO. 00093
SCALE: HORIZ. 1" = 30' VERT. 1" = 5'	DRAWING 3 OF 10

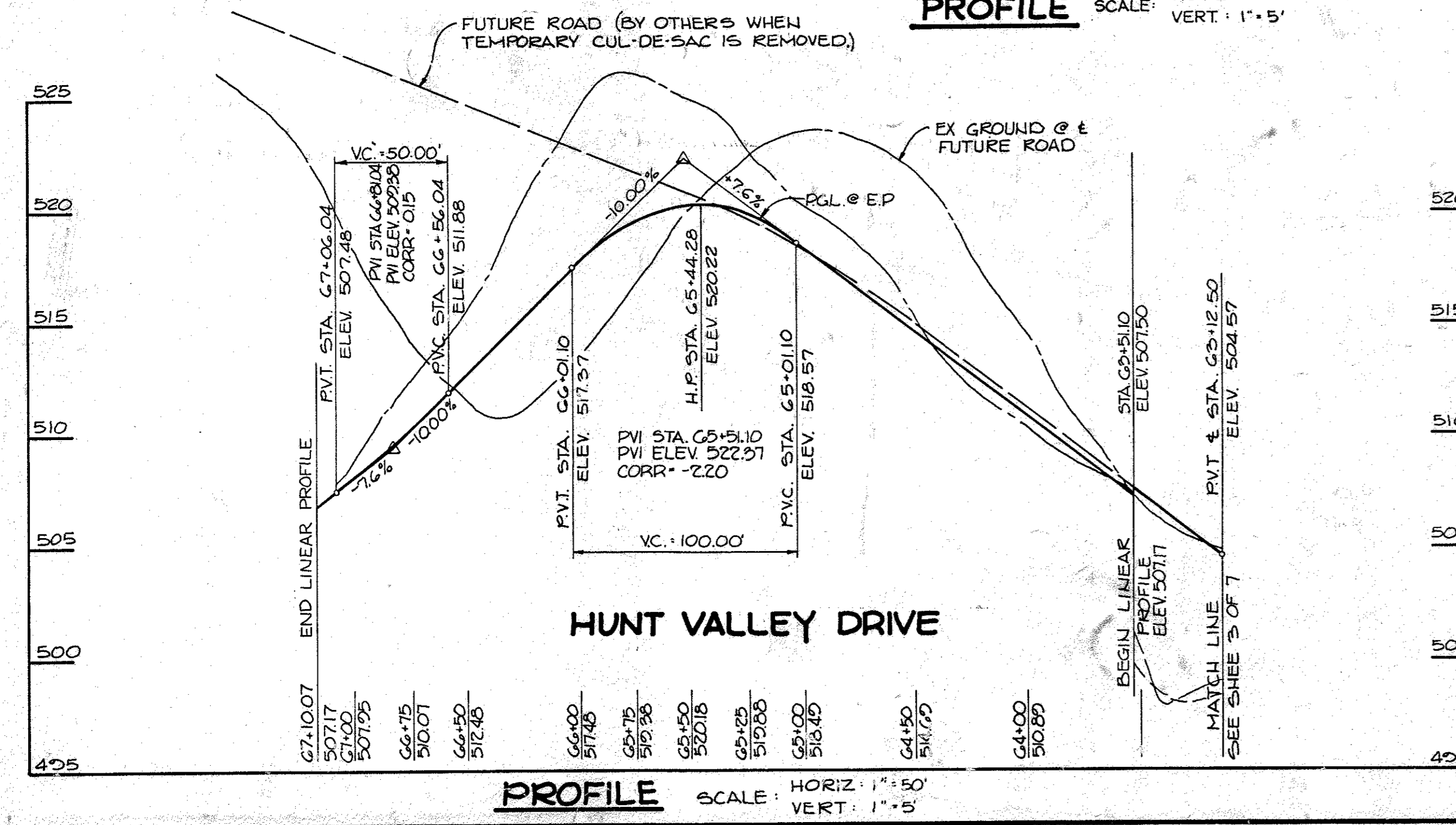
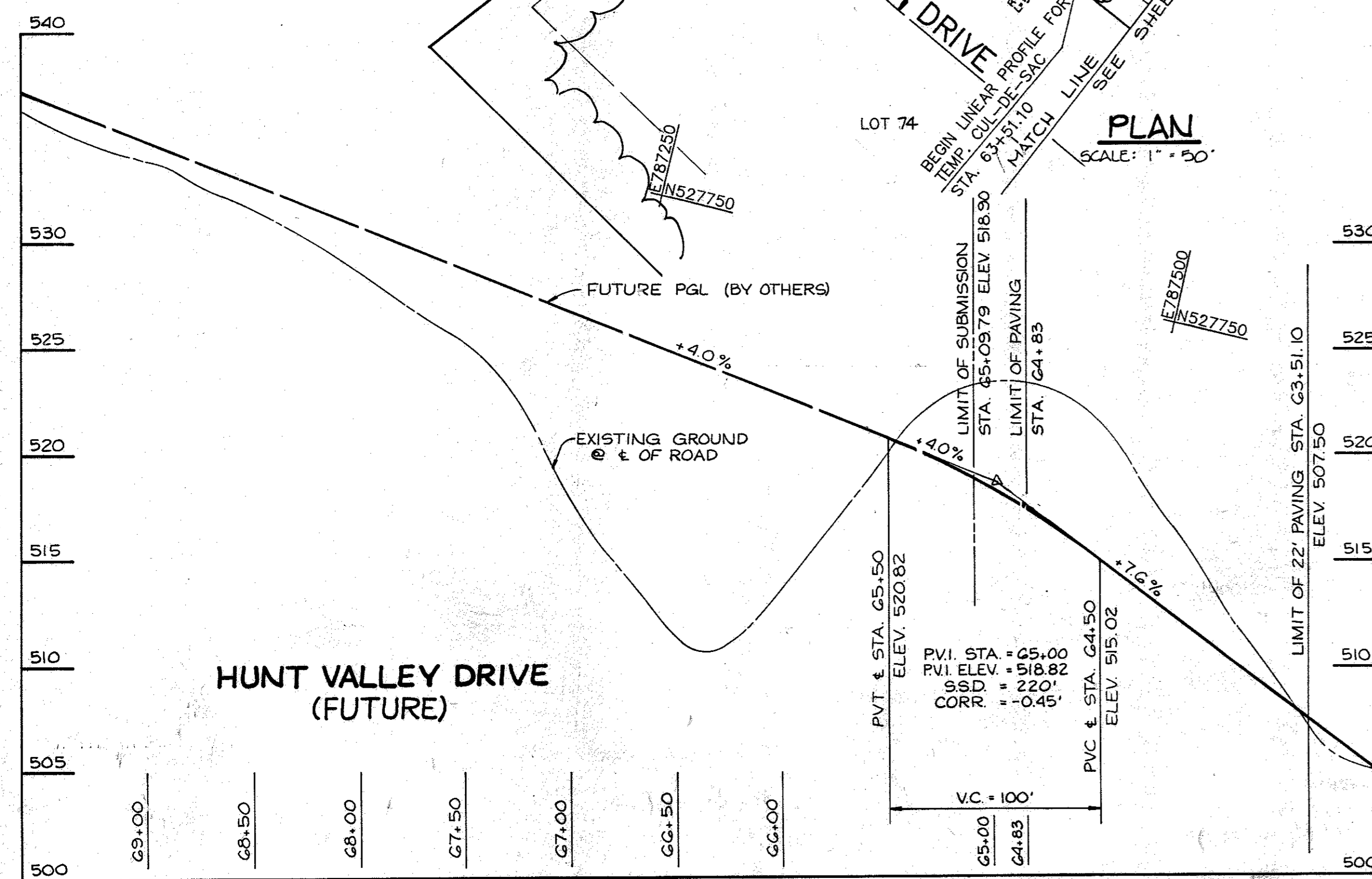
1488

F-90-67

LINEAR PROFILE FOR TEMPORARY CUL-DE-SAC STA. 63+51.10 TO STA. 63+87.30
 RADIUS = 35.00'
 LENGTH = 36.20'
 TANGENT = 19.91'
 CHORD = 34.61'
 BEARING = S 86°15'59" W
 DELTA = 59°15'44"

LINEAR PROFILE FOR TEMPORARY CUL-DE-SAC STA. 63+87.30 TO STA. 66+73.86
 RADIUS = 55.00'
 LENGTH = 286.56'
 TANGENT = 32.71'
 CHORD = 56.22'
 BEARING = S 25°53'51" W
 DELTA = 298°31'27"

LINEAR PROFILE FOR TEMPORARY CUL-DE-SAC STA. 66+73.86 TO STA. 67+10.07
 RADIUS = 35.00'
 LENGTH = 36.20'
 TANGENT = 19.91'
 CHORD = 34.61'
 BEARING = S 34°28'17" E
 DELTA = 59°15'44"

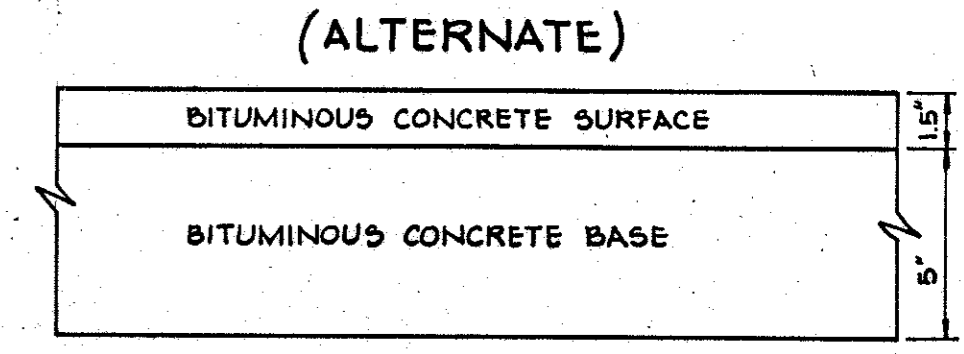
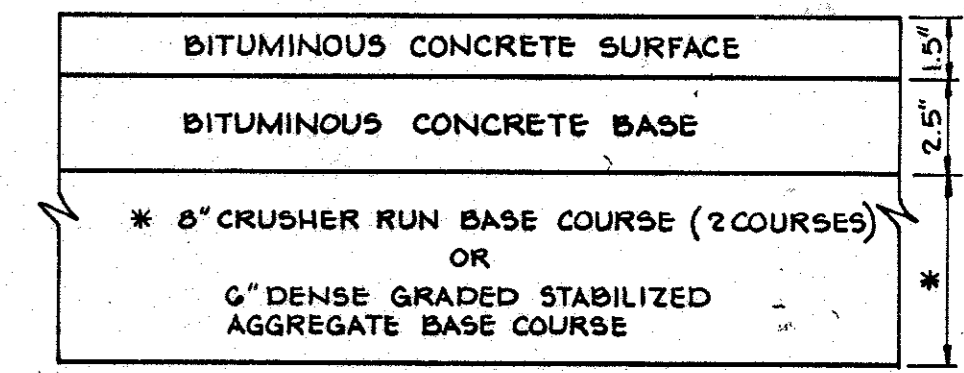
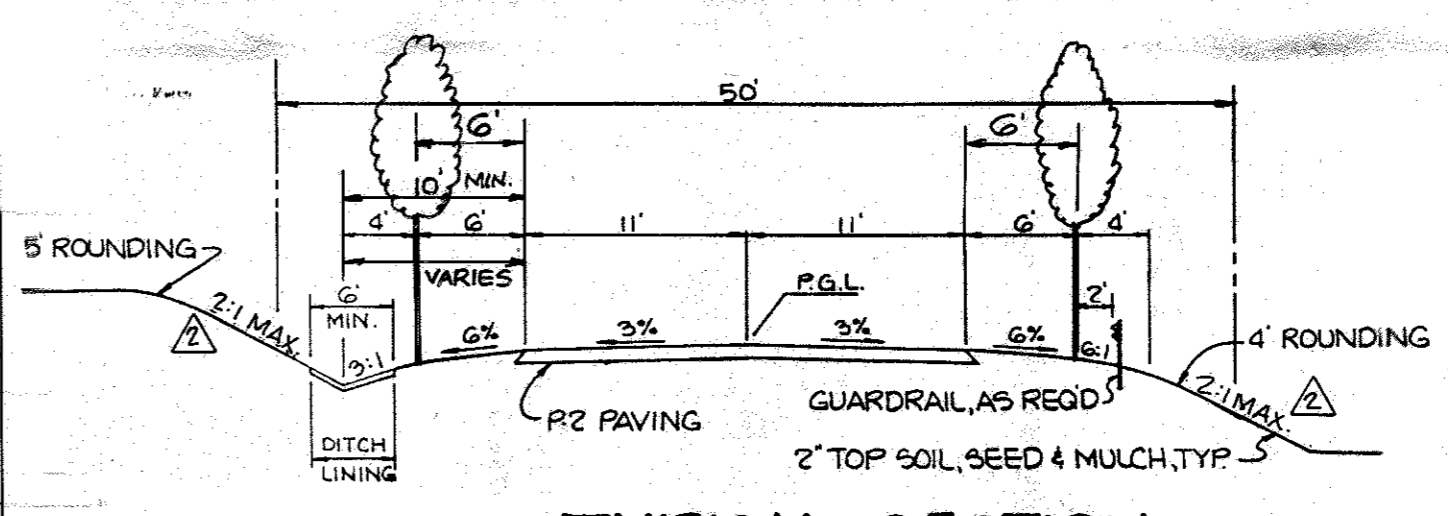
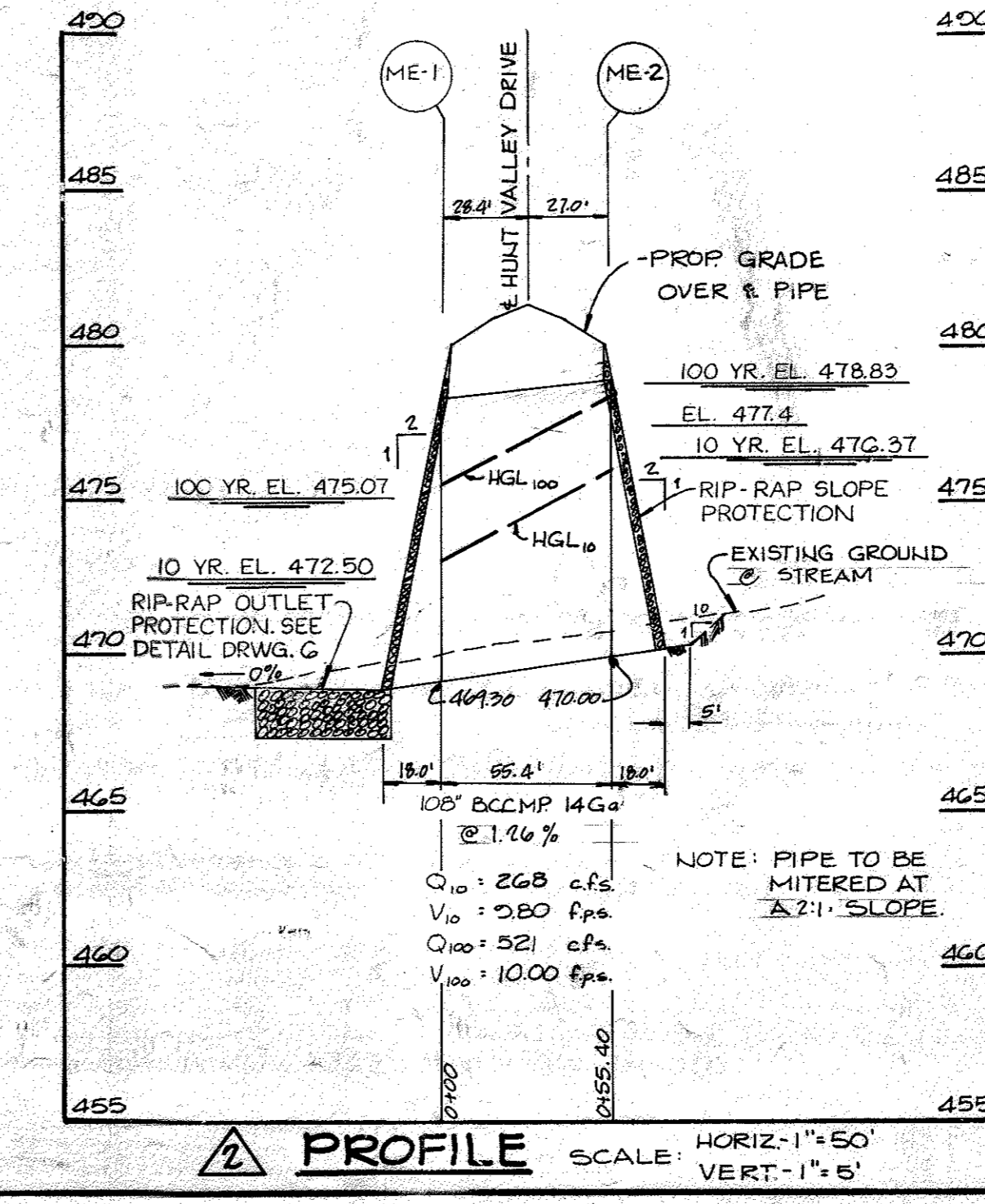
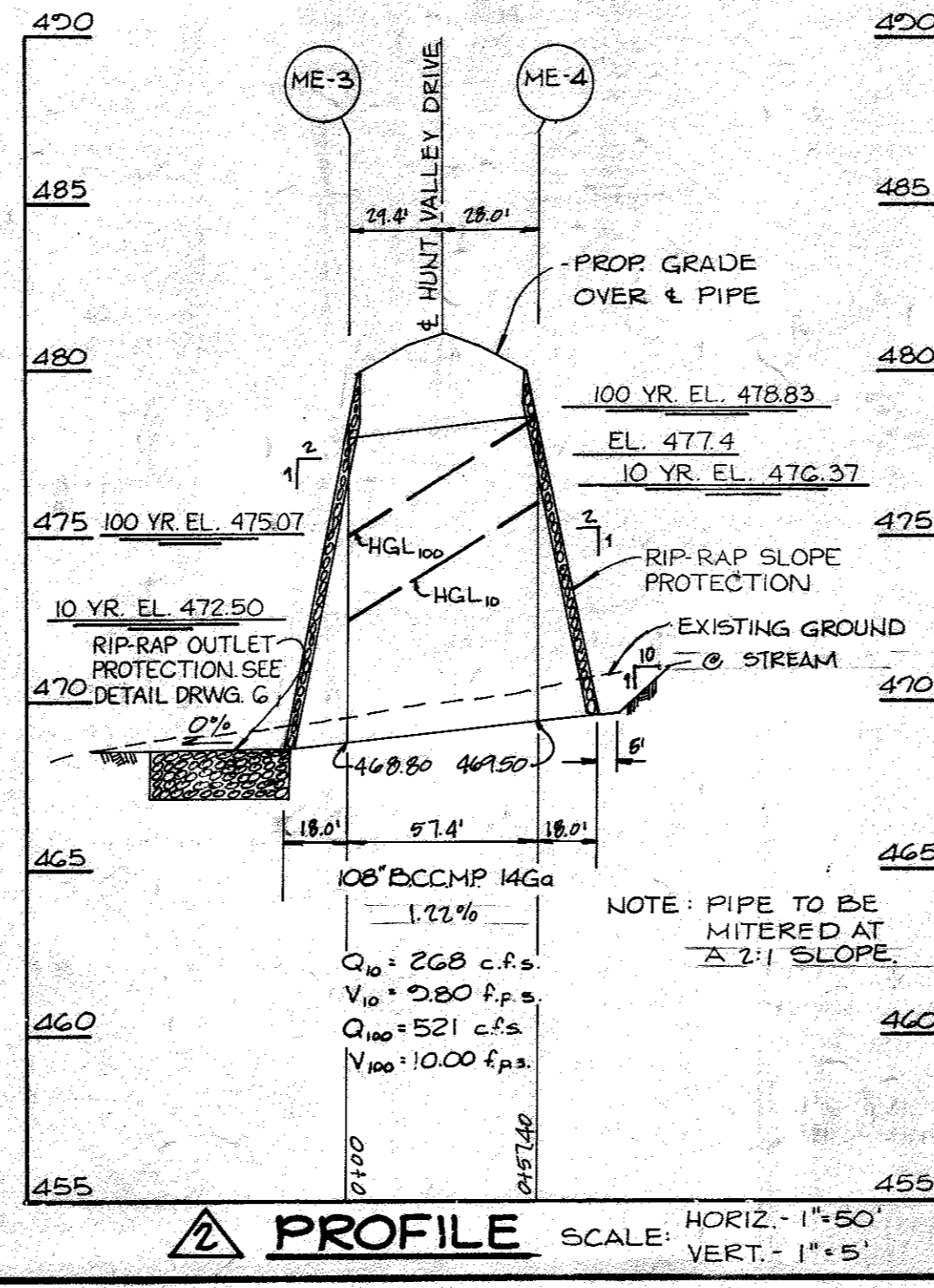


PLANT LIST			
LOCATION	SYMBOL	NAME	QUANTITY
STREET TREES	(Symbol)	ACER RUBRUM 'RED SUNSET' RED SUNSET RED MAPLE	137
LANDSCAPE TREES	(Symbol)	PINUS STROBUS (EASTERN WHITE PINE)	48
(PERIMETER SWM)	(Symbol)	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	71

FINANCIAL SURETY FOR THE REQUIRED 119 (48+71) LANDSCAPE TREES IS TO BE POSTED AS PART OF THE DEVELOPER'S AGREEMENT IN THE AMOUNT OF \$11,900.00. ALL LANDSCAPE PLANTING IS THE RESPONSIBILITY OF THE DEVELOPER.

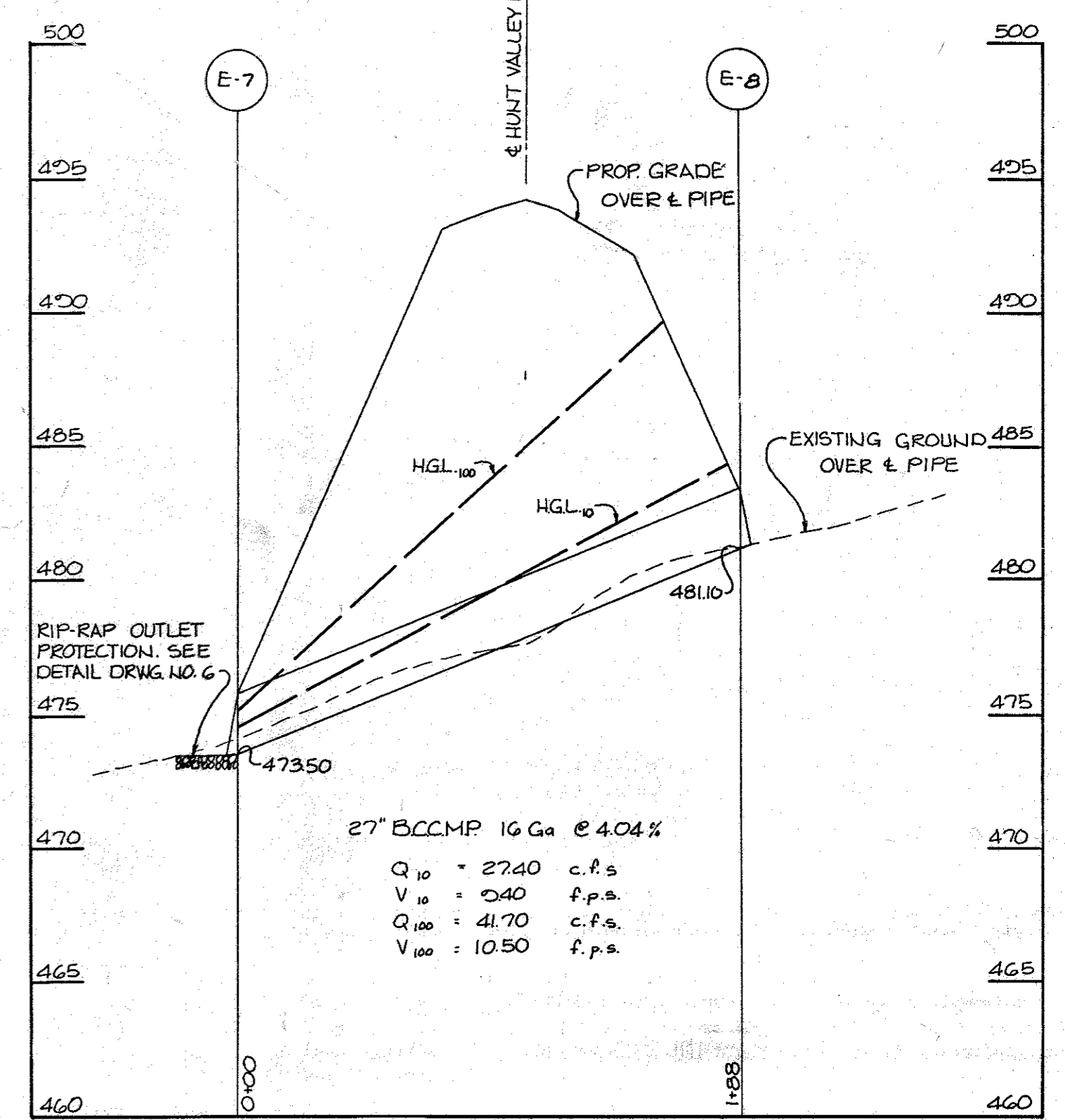
NOTE: AT THE TIME WHEN HUNT VALLEY DRIVE IS TO BE EXTENDED BY OTHERS, THE TEMPORARY CUL-DE-SAC SHALL BE REMOVED AND HUNT VALLEY DRIVE SHALL BE CONSTRUCTED AS PER TYPICAL SECTION.

Peter A. Gallinger
Professional Engineer



HOWARD COUNTY DESIGN MANUAL VOLUME IV
STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)

6 1/2" PAVING, P-2



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Land Development Division
 Chief, Bureau of Highways
 Chief, Bureau of Engineering

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Community Planning and Land Development

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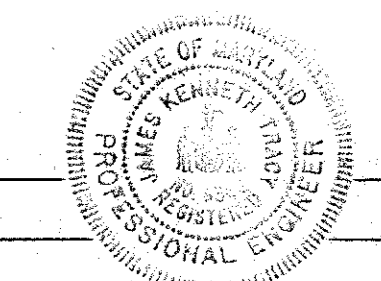
OWNER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-4244

DEVELOPER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-4244

PROJECT: WELLINGTON
 SECTION TWO, AREA ONE
 LOCATION: TAX MAP 14&21, PARCELS 73&74
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: ROAD PLAN AND PROFILE, STORM DRAIN PROFILES AND DETAILS
 DATE: SEPT 22, 1990
 PROJECT NO. 00000

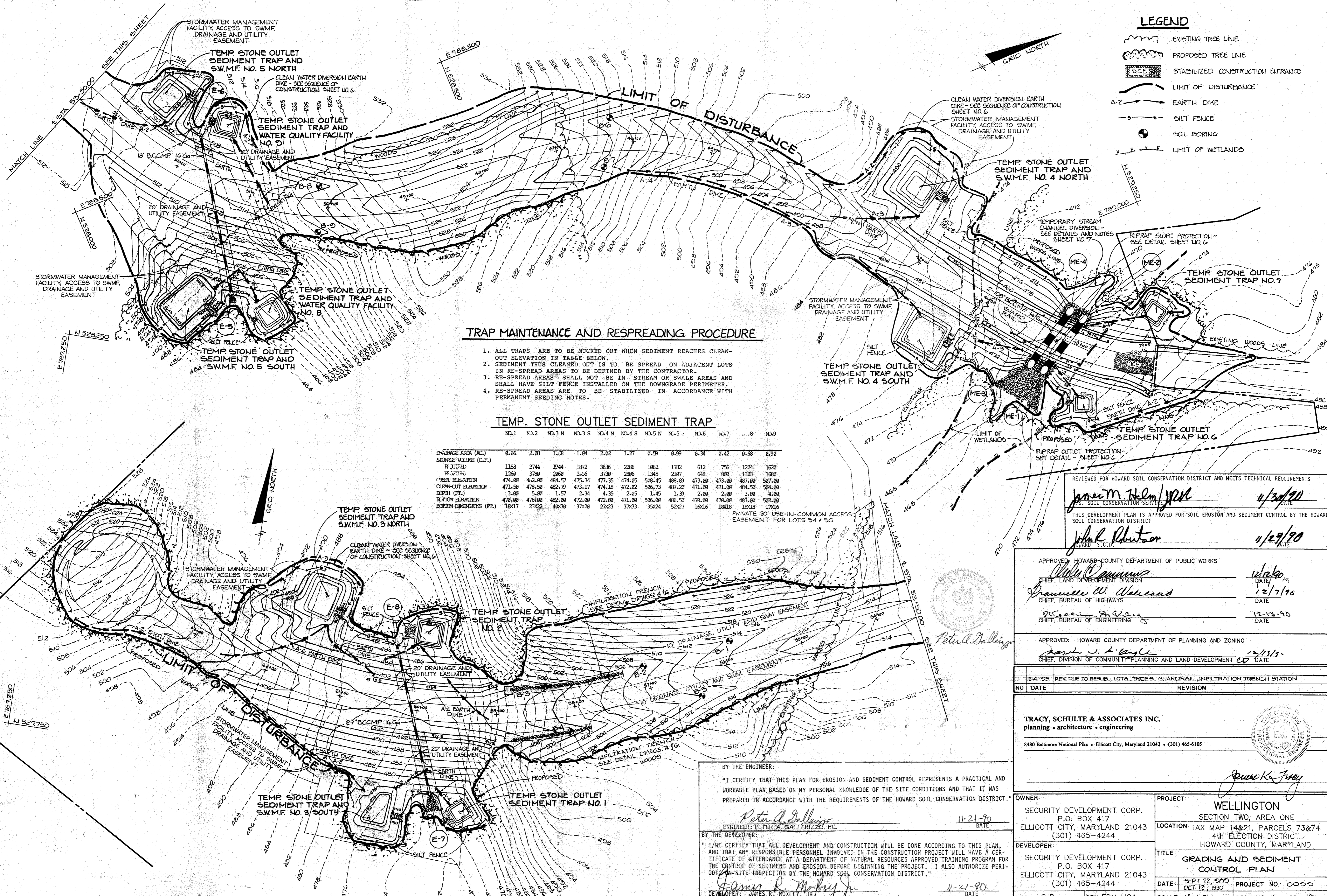
DES. SUB: DRN-FDM/JCA
 SCALE: AS SHOWN
 DRAWING 4 OF 10



James K. Jolley
Professional Engineer

LEGEND

- EXISTING TREE LINE
- PROPOSED TREE LINE
- STABILIZED CONSTRUCTION ENTRANCE
- LIMIT OF DISTURBANCE
- EARTH DIKE
- SILT FENCE
- SOIL BORING
- LIMIT OF WETLANDS



TRAP MAINTENANCE AND RESPREADING PROCEDURE

1. ALL TRAPS ARE TO BE MUCKED OUT WHEN SEDIMENT REACHES CLEAN-OUT ELEVATION IN TABLE BELOW.
2. SEDIMENT THUS CLEANED OUT IS TO BE SPREAD ON ADJACENT LOTS IN RE-SPREAD AREAS TO BE DEFINED BY THE CONTRACTOR.
3. RE-SPREAD AREAS SHALL NOT BE IN STREAM OR SWALE AREAS AND SHALL HAVE SILT FENCE INSTALLED ON THE DOWNGRADE PERIMETER.
4. RE-SPREAD AREAS ARE TO BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

TEMP. STONE OUTLET SEDIMENT TRAP

	NO.1	NO.2	NO.3 N	NO.3 S	NO.4 N	NO.4 S	NO.5 N	NO.5 S	NO.6	NO.7	NO.8	NO.9
DRAINAGE AREA (AC)	0.66	2.08	1.38	1.04	2.02	1.27	0.39	0.99	0.34	0.42	0.68	0.90
STORAGE VOLUME (C.F.)												
REQUIRED	1168	3744	1944	1872	3636	2286	1062	1782	612	756	1224	1620
PROVIDED	1260	3780	2060	2056	3730	2806	1345	2107	648	800	1323	1680
FRESH ELEVATION	474.00	462.00	484.57	475.34	477.35	474.05	508.45	488.89	473.00	473.00	487.00	507.00
CLEAN-OUT ELEVATION	471.50	478.50	482.79	473.17	474.18	472.02	506.73	487.20	471.00	471.00	484.50	504.00
DEPTH (FT.)	3.00	5.00	1.57	4.34	4.35	4.35	1.45	1.39	2.00	2.00	3.00	4.00
BOTTOM ELEVATION	478.00	476.00	482.00	472.00	472.00	471.00	506.00	486.50	478.00	478.00	483.00	502.00
BOTTOM DIMENSIONS (FT.)	18x17	23x22	40x38	37x28	27x23	37x33	35x24	52x27	18x16	18x18	17x16	

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 [Signature] 4/30/90
 [Signature] 4/29/90

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 [Signature] 12/12/90
 [Signature] 12/7/90
 [Signature] 12-13-90
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 12/15/90

1	12-4-95	REV. DUE TO RESUB.; LOTS, TREES, GUARDRAIL, INFILTRATION TRENCH STATION
NO	DATE	REVISION

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 [Signature]

BY THE ENGINEER:
 "I 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] 11-21-90
 ENGINEER: PETER A. GALLERIZZO, P.E.

BY THE DEVELOPER:
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."
 [Signature] 11-21-90
 DEVELOPER: JAMES R. MOXLEY, JR.
 SECURITY DEVELOPMENT CORPORATION - PRESIDENT

OWNER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-4244

DEVELOPER: SECURITY DEVELOPMENT CORP.
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DES. SUB: DRN.FDM/JCA

PROJECT: WELLINGTON
 SECTION TWO, AREA ONE
 LOCATION: TAX MAP 14&21, PARCELS 73&74
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

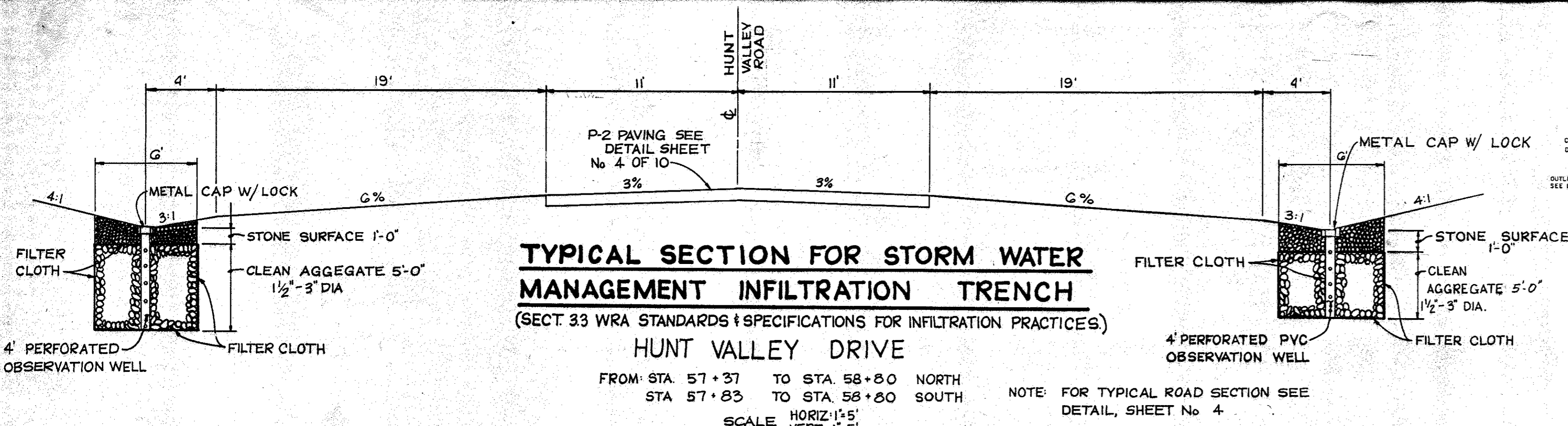
TITLE: GRADING AND SEDIMENT CONTROL PLAN

DATE: SEPT 22, 1995
 OCT 12, 1990

PROJECT NO: 0000

SCALE: 1" = 50'

DRAWING 5 OF 10



SEQUENCE OF CONSTRUCTION

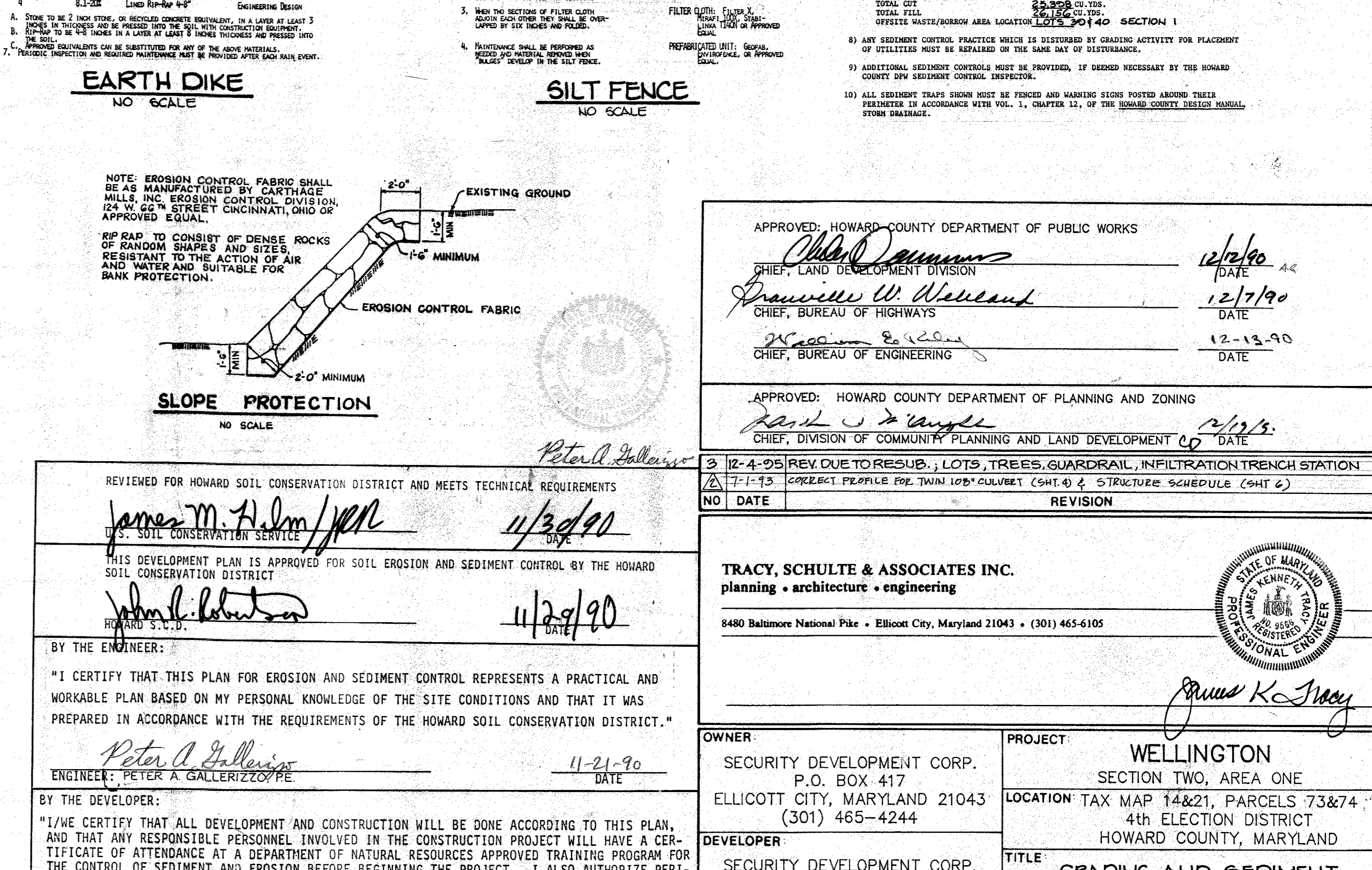
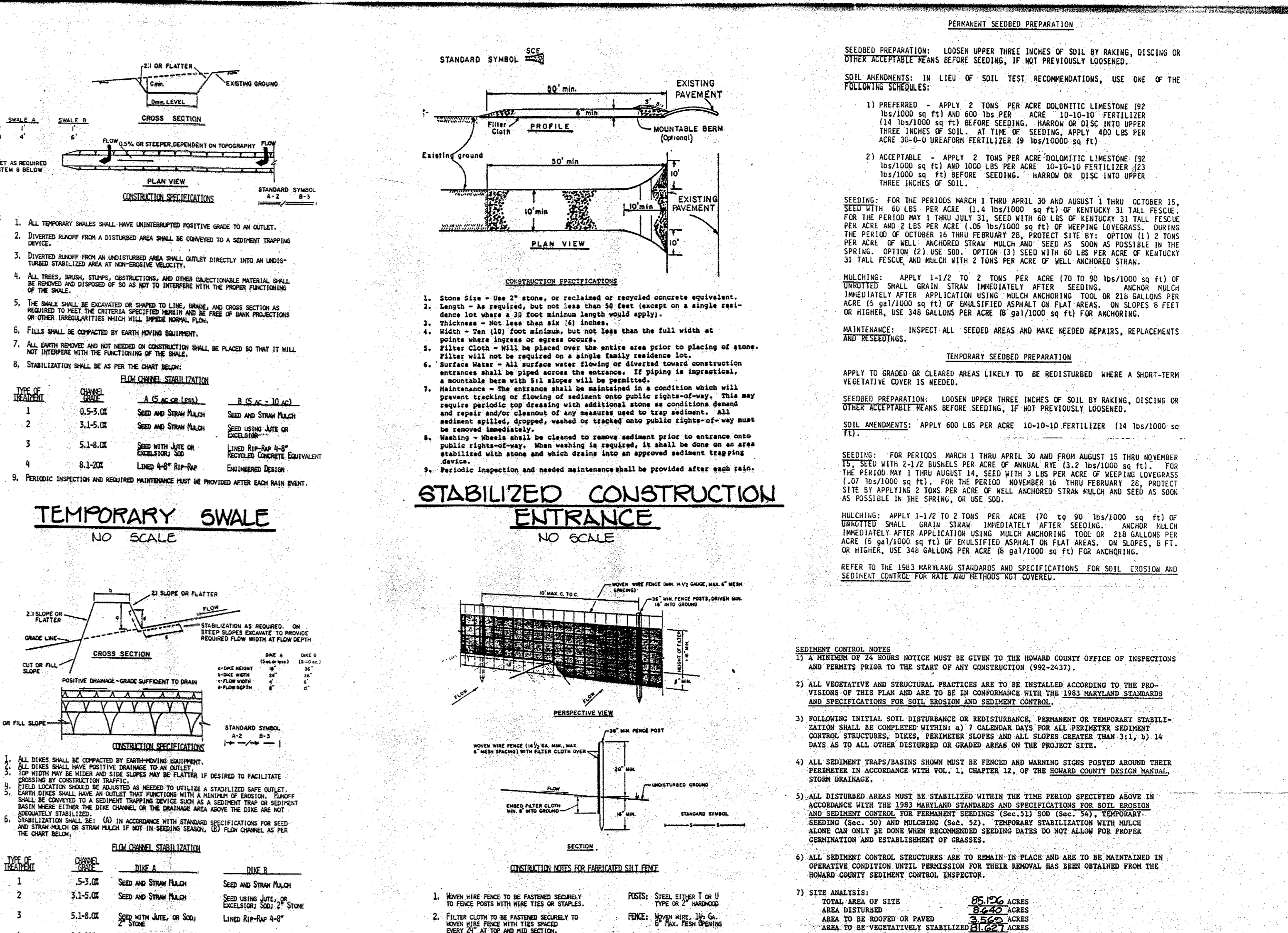
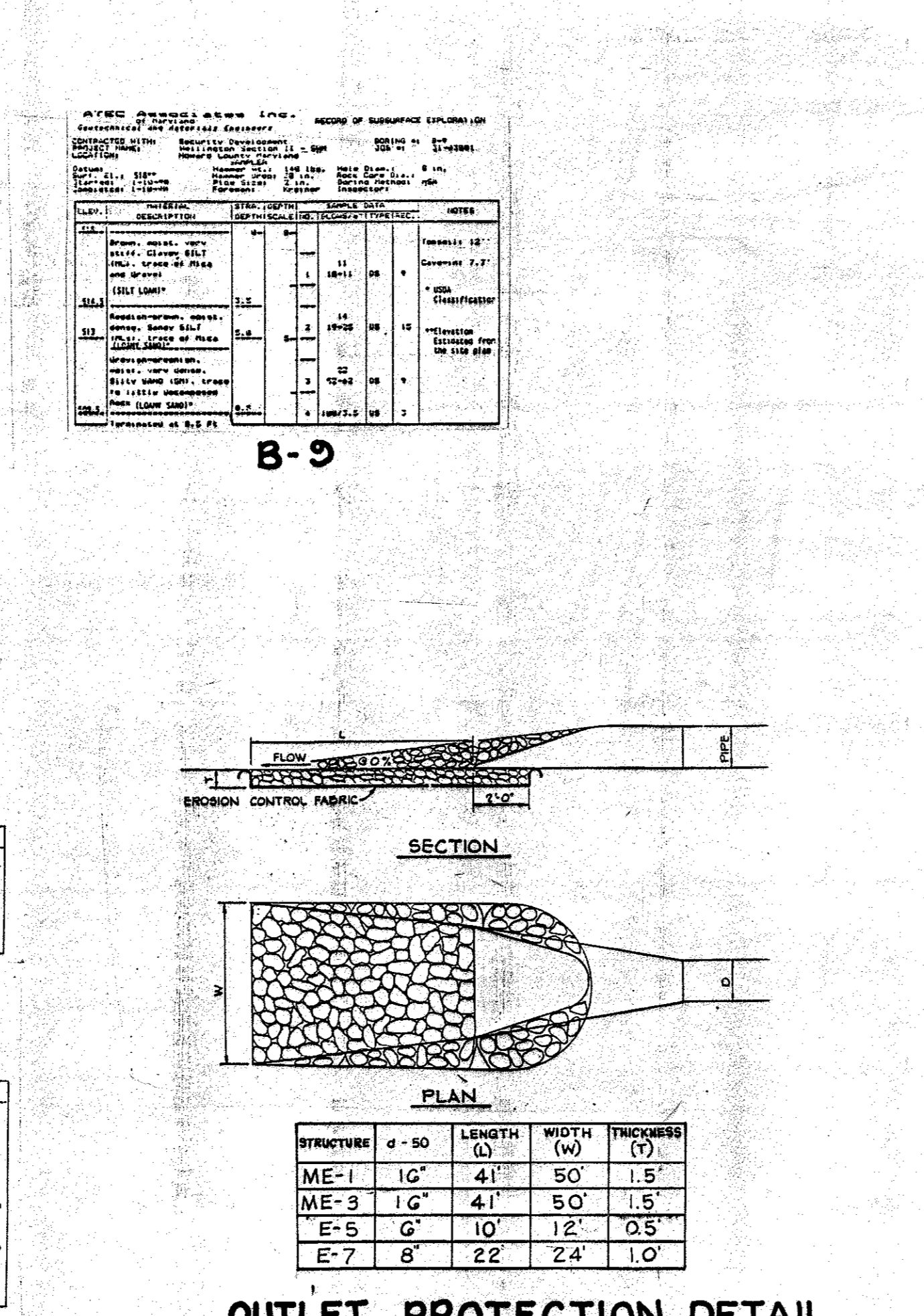
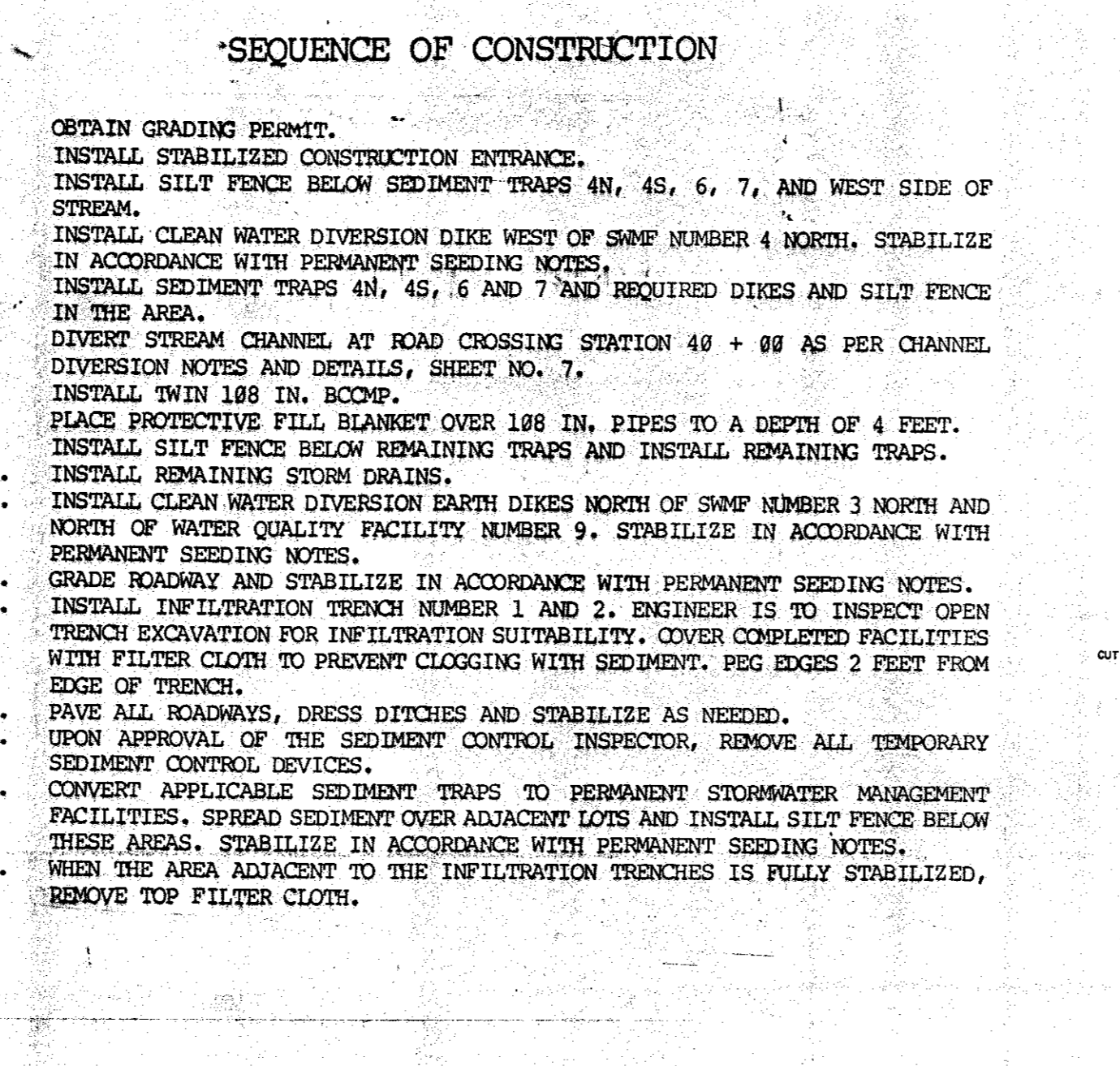
- OBTAIN GRADING PERMIT.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL SILT FENCE BELOW SEDIMENT TRAPS 4N, 4S, 6, 7, AND WEST SIDE OF STREAM.
- INSTALL CLEAN WATER DIVERSION DIKE WEST OF SAME NUMBER 4 NORTH. STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- INSTALL SEDIMENT TRAPS 4N, 4S, 6 AND 7 AND REQUIRED DIKES AND SILT FENCE IN THE AREA.
- DIVERT STREAM CHANNEL AT ROAD CROSSING STATION 40 + 00 AS PER CHANNEL DIVERSION NOTES AND DETAILS, SHEET NO. 7.
- INSTALL TWIN 18" IN. BODIP.
- PLACE PROTECTIVE FILL BLANKET OVER 18" IN. PIPES TO A DEPTH OF 4 FEET.
- INSTALL SILT FENCE BELOW REMAINING TRAPS AND INSTALL REMAINING TRAPS.
- INSTALL REMAINING STORM DRAINS.
- INSTALL CLEAN WATER DIVERSION EARTH DIKES NORTH OF SAME NUMBER 3 NORTH AND NORTH OF WATER QUALITY FACILITY NUMBER 9. STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- GRADE ROADWAY AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- INSTALL INFILTRATION TRENCH NUMBER 1 AND 2. ENGINEER IS TO INSPECT OPEN TRENCH EXCAVATION FOR INFILTRATION SUITABILITY. COVER COMPLETED FACILITIES WITH FILTER CLOTH TO PREVENT CLOGGING WITH SEDIMENT. PEG EDGES 2 FEET FROM EDGE OF TRENCH.
- PAVE ALL ROADWAYS, DRESS DITCHES AND STABILIZE AS NEEDED.
- UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES.
- CONVERT APPLICABLE SEDIMENT TRAPS TO PERMANENT STORMWATER MANAGEMENT FACILITIES. SPREAD SEDIMENT OVER ADJACENT LOTS AND INSTALL SILT FENCE BELOW THESE AREAS. STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- WHEN THE AREA ADJACENT TO THE INFILTRATION TRENCHES IS FULLY STABILIZED, REMOVE TOP FILTER CLOTH.

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TOP ELEV	REMARKS
ME-1	108" MITERED END SECTION	275' LEFT OF ROAD STA. 57+13.60 HUNT VALLEY DR.	--	469.30		MITERED @ 2:1 SLOPE
ME-2	108" MITERED END SECTION	26'23" RIGHT OF ROAD STA. 57+11.94 HUNT VALLEY DR.	478.00	--		MITERED @ 2:1 SLOPE
ME-3	108" MITERED END SECTION	285'6" LEFT OF ROAD STA. 40+13.04 HUNT VALLEY DR.	--	468.80		MITERED @ 2:1 SLOPE
ME-4	108" MITERED END SECTION	21'20" RIGHT OF ROAD STA. 57+11.70 HUNT VALLEY DR.	469.50	--		MITERED @ 2:1 SLOPE
E-6	18" COATED METAL END SECTION	70' RIGHT OF ROAD STA. 52+10 HUNT VALLEY DR.	--	488.80		HO. CO. ST'D. DETAIL SD-5.61
E-5	18" COATED METAL END SECTION	92' LEFT OF ROAD STA. 60+41 HUNT VALLEY DR.	506.40	--		HO. CO. ST'D. DETAIL SD-5.61
E-6	27" COATED METAL END SECTION	79' RIGHT OF ROAD STA. 60+41 HUNT VALLEY DR.	--	473.50		HO. CO. ST'D. DETAIL SD-5.61
E-7	27" COATED METAL END SECTION	98' LEFT OF ROAD STA. 59+76 HUNT VALLEY DR.	481.10	--		HO. CO. ST'D. DETAIL SD-5.61

SOIL BORING DATA

SEE SHEET 5 OF 10 FOR BORING LOCATIONS

BORING NO.	DEPTH (FT)	SOIL TYPE	REMARKS
B-1	1.0	CLAY	...
B-2	1.0	CLAY	...
B-3	1.0	CLAY	...
B-4	1.0	CLAY	...
B-5	1.0	CLAY	...
B-6	1.0	CLAY	...
B-7	1.0	CLAY	...
B-8	1.0	CLAY	...



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 Chief, Land Development Division
 Approved: 12/2/90
 Approved: 12/7/90
 Approved: 12-13-90

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Chief, Division of Community Planning and Land Development
 Approved: 12/13/90

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
 James M. Adams/jm
 U.S. SOIL CONSERVATION SERVICE
 Approved: 11/30/90

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 Approved: 11/29/90

BY THE ENGINEER:
 "I 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."
 Peter A. Galluzzo
 ENGINEER: PETER A. GALLUZZO/PE
 Approved: 11-21-90

BY THE DEVELOPER:
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY 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."
 James R. Molyneux
 DEVELOPER: JAMES R. MOLYNEUX, JR.
 SECURITY DEVELOPMENT CORPORATION - PRESIDENT
 Approved: 11-21-90

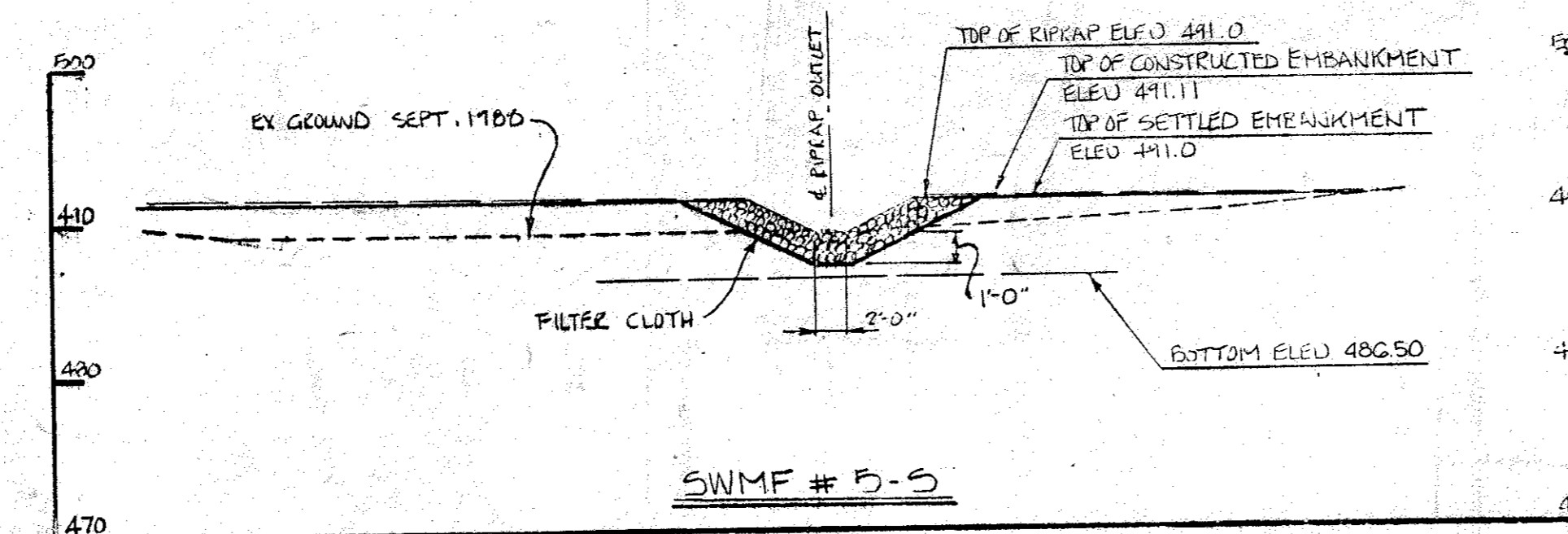
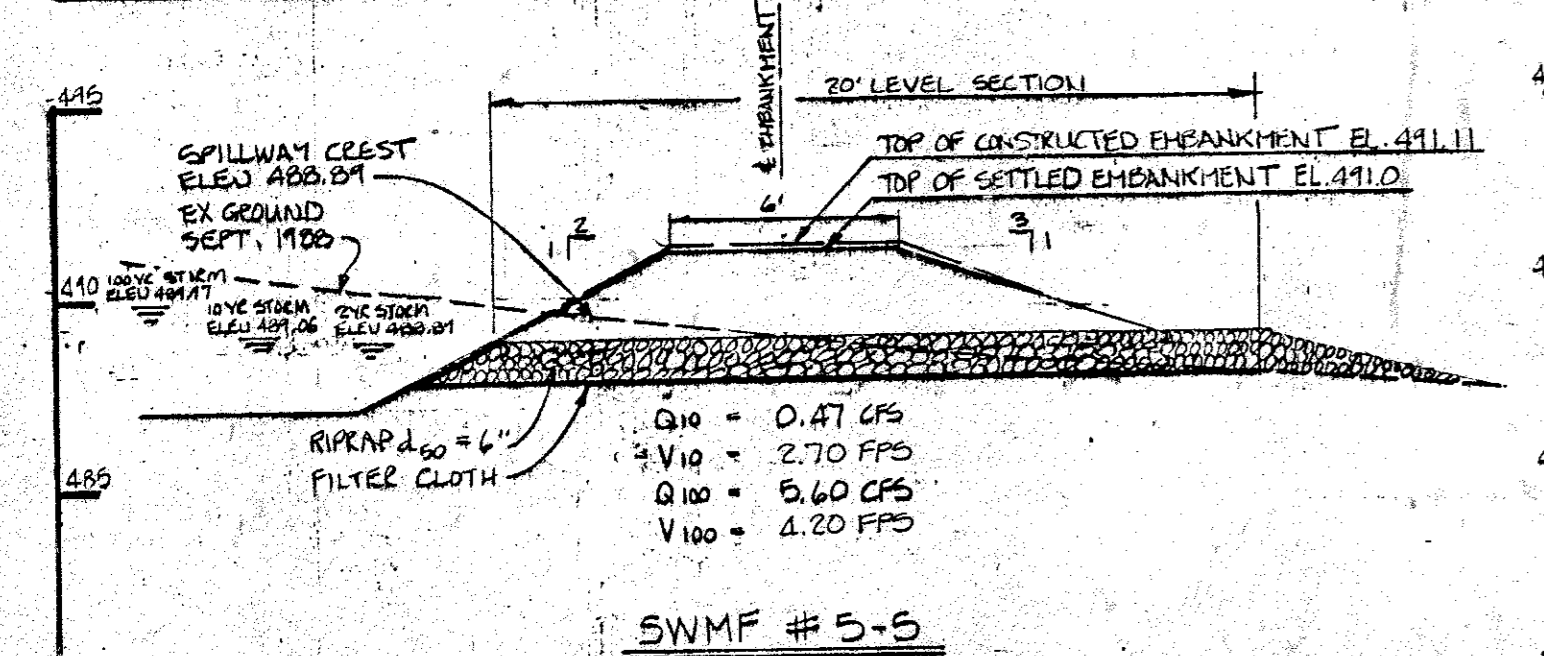
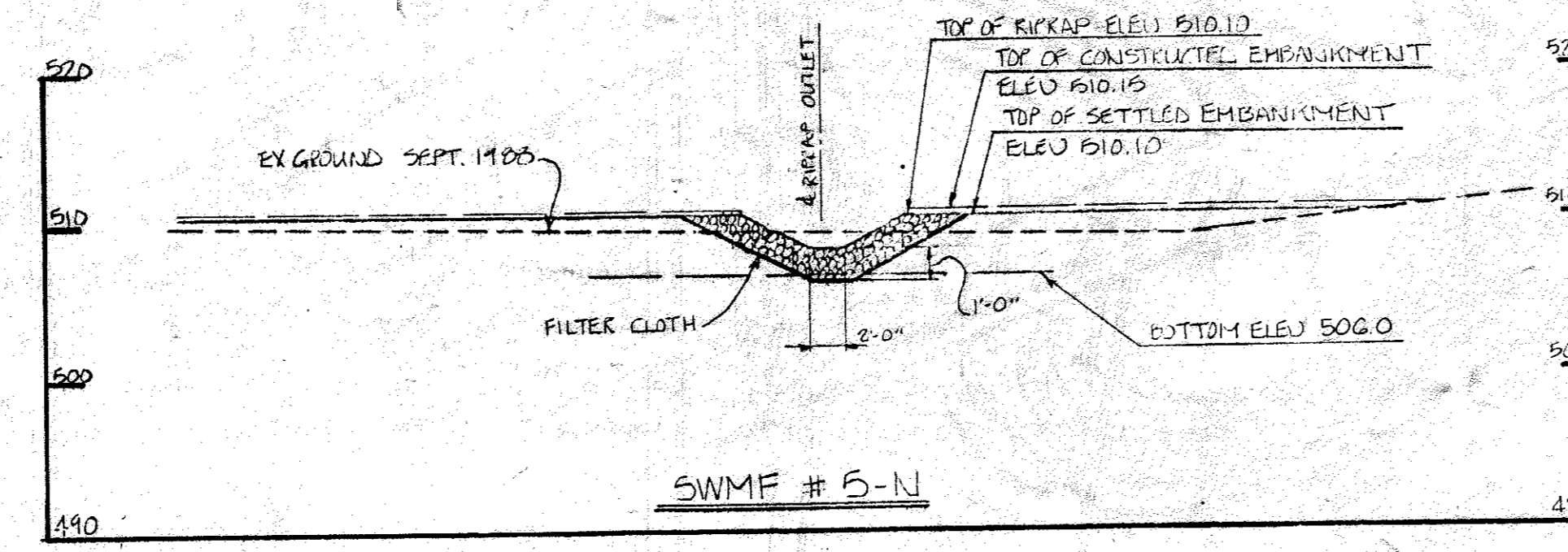
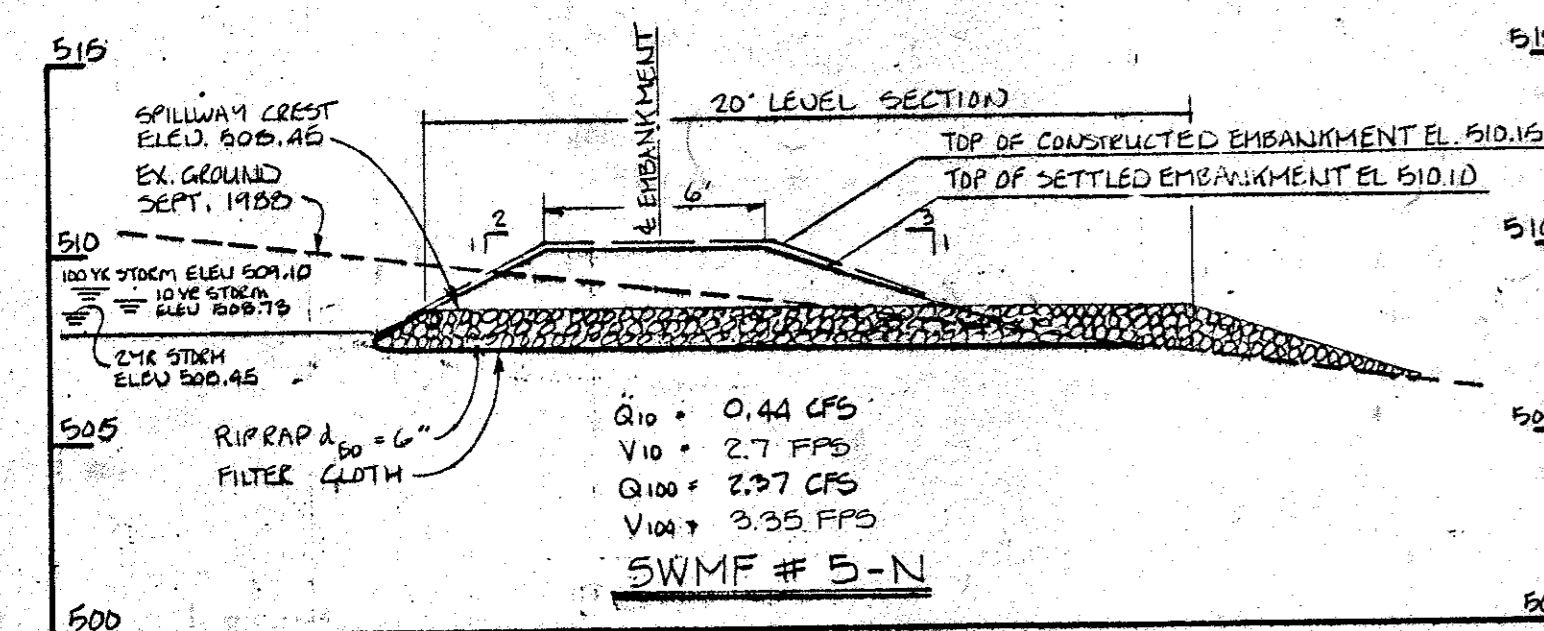
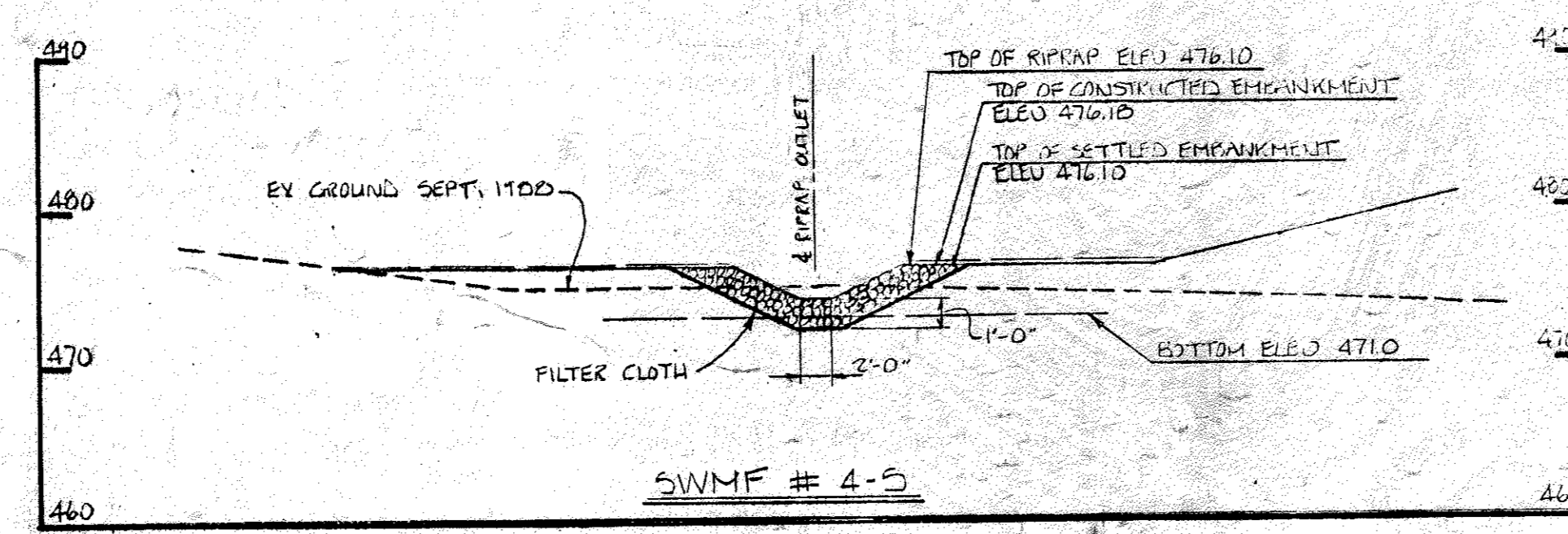
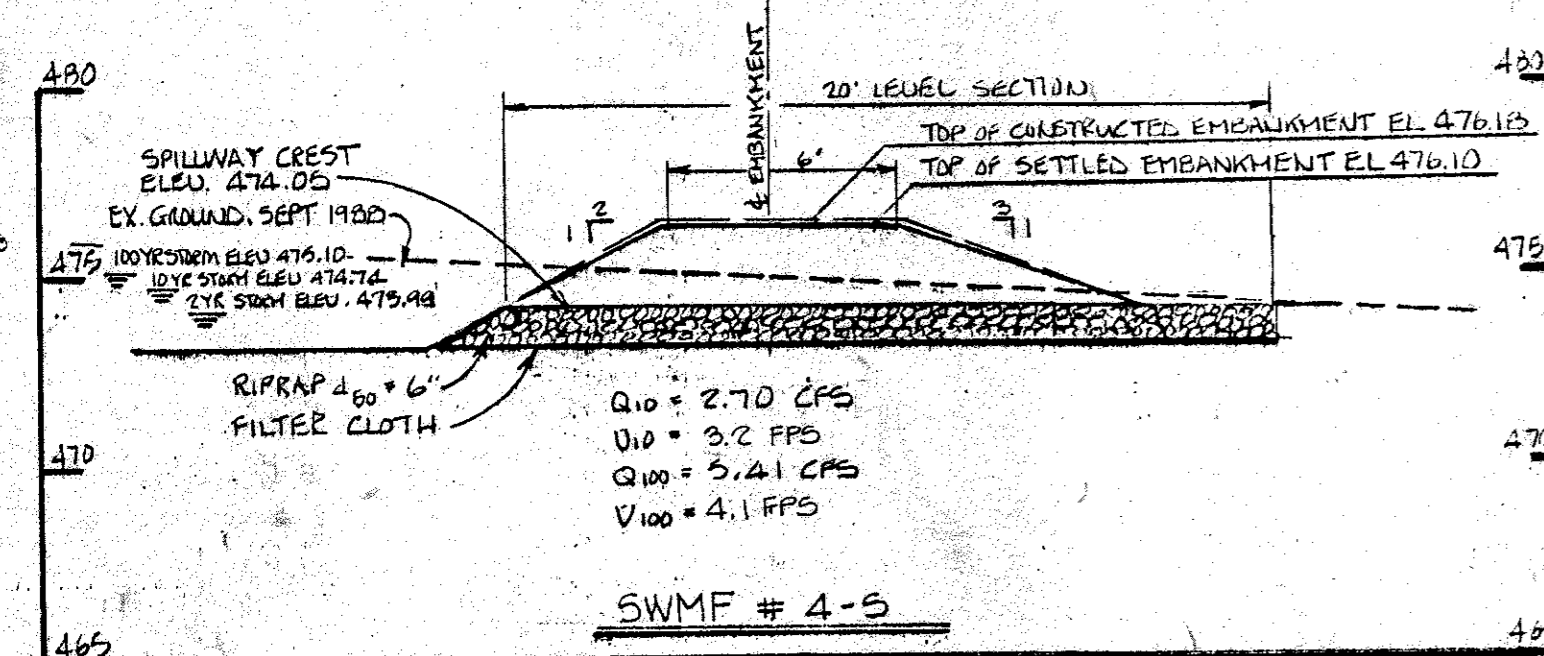
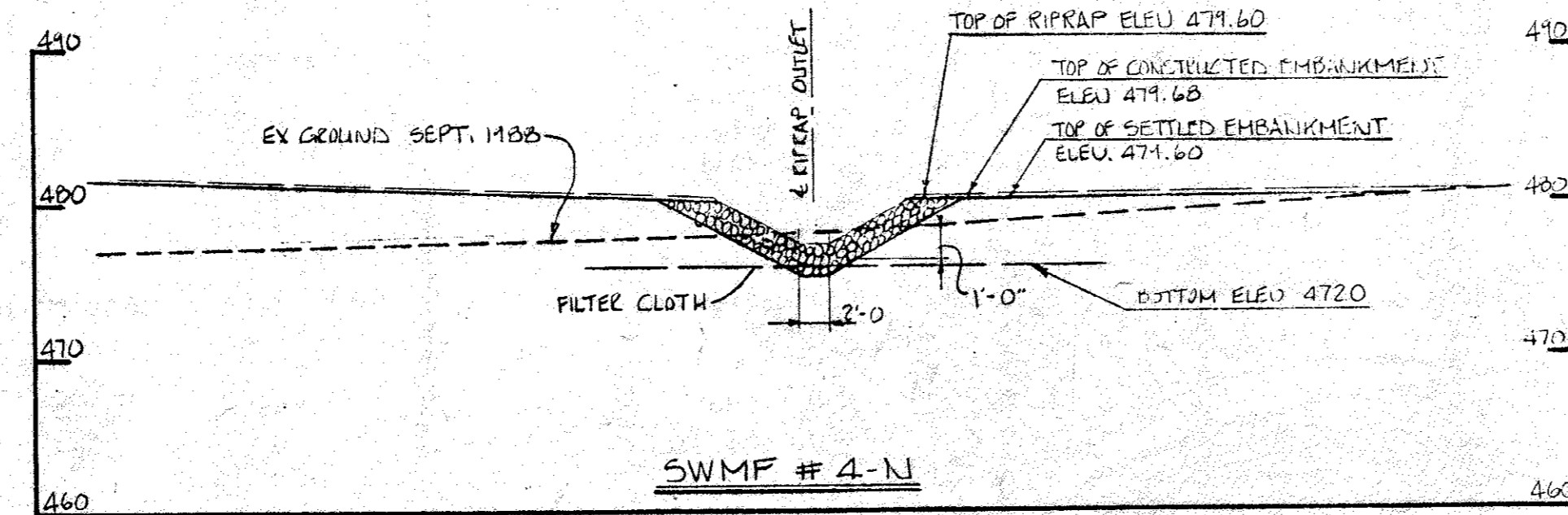
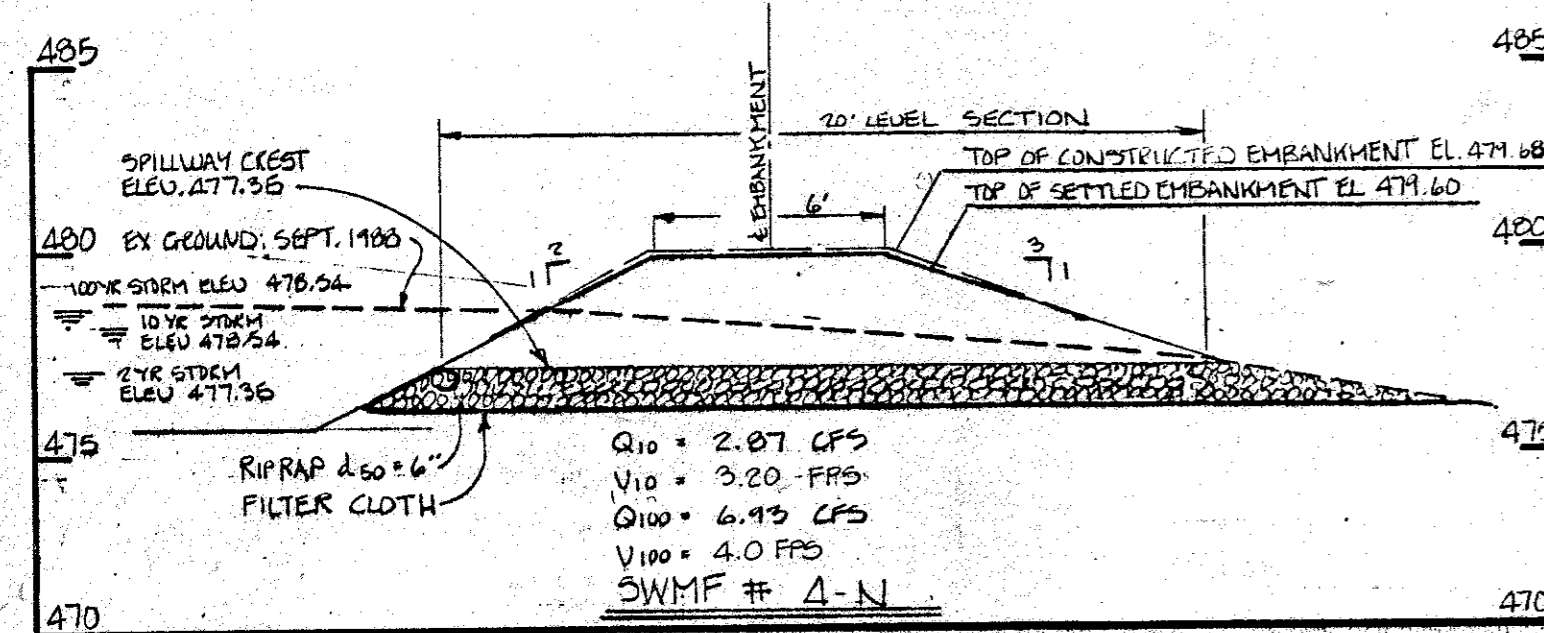
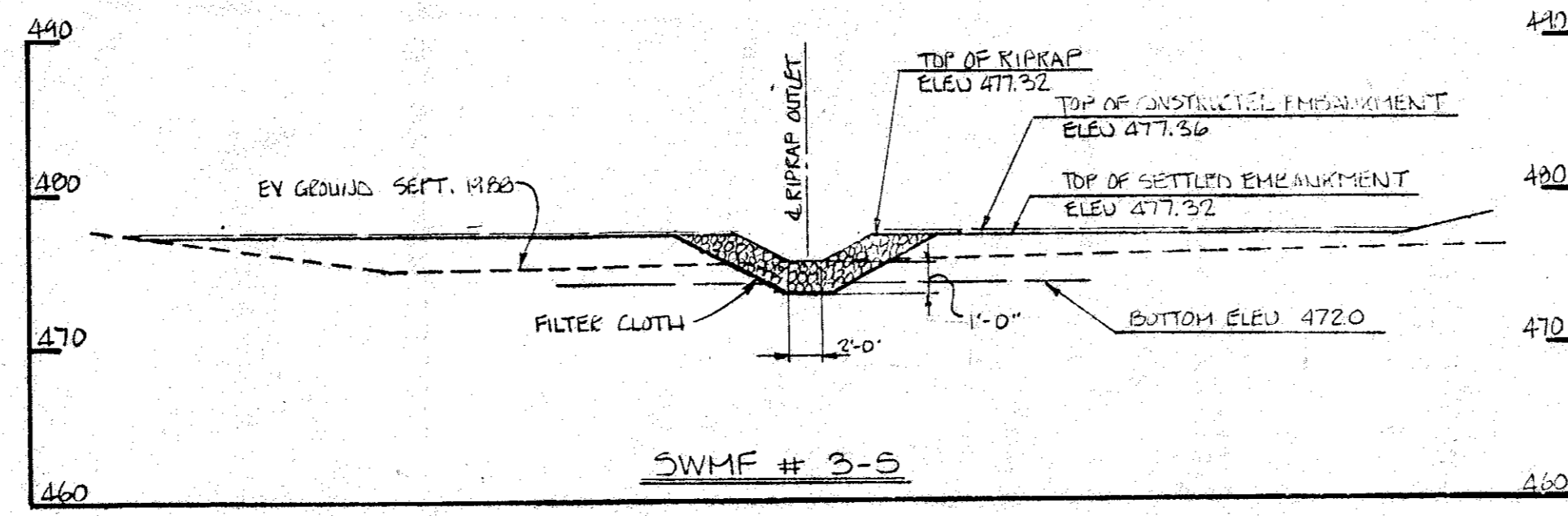
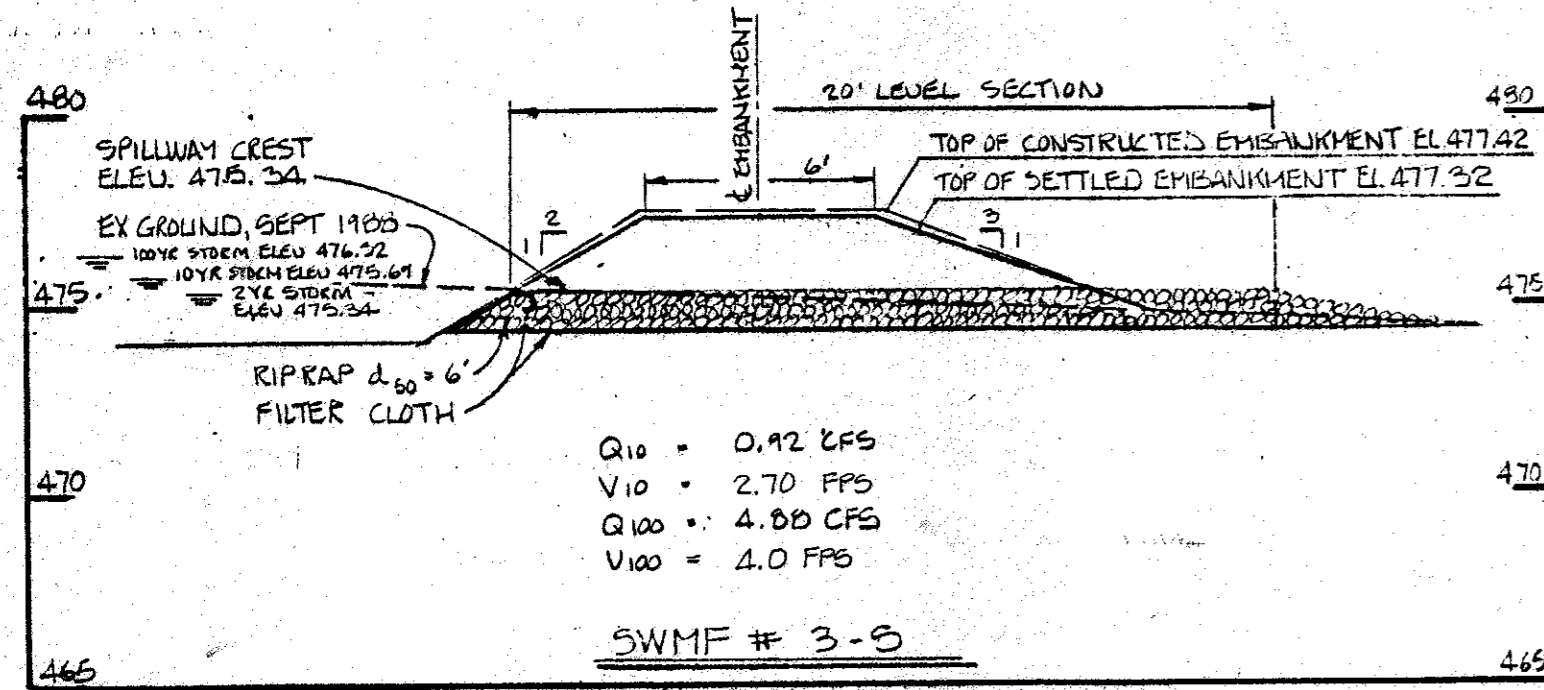
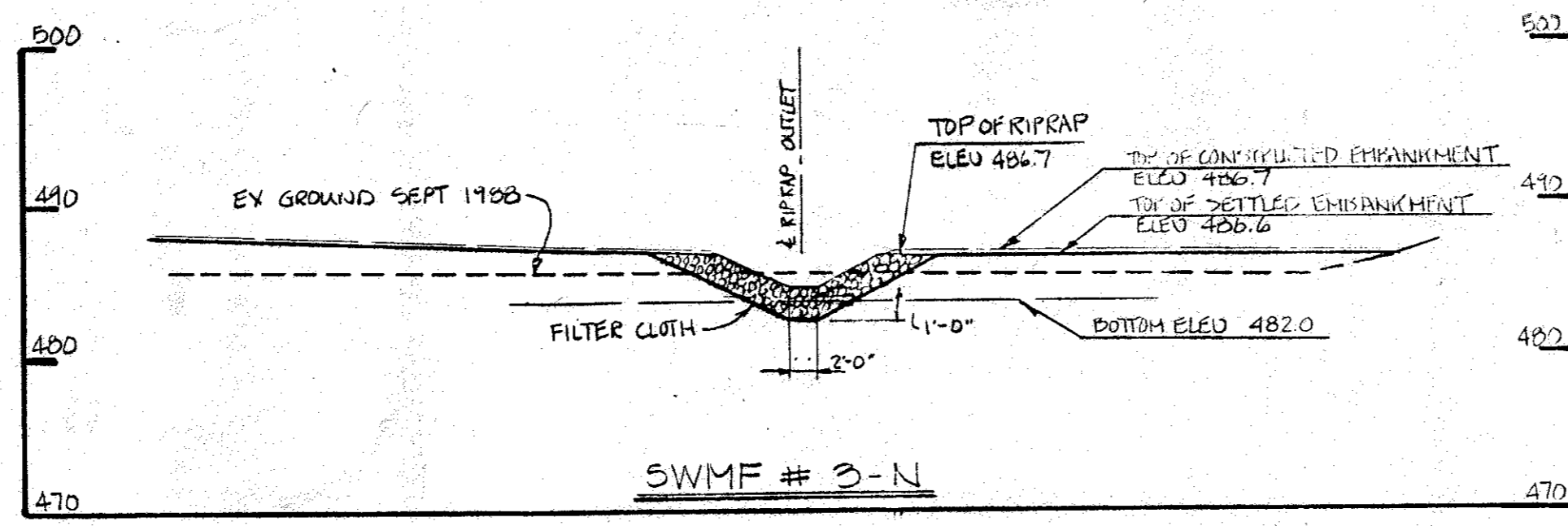
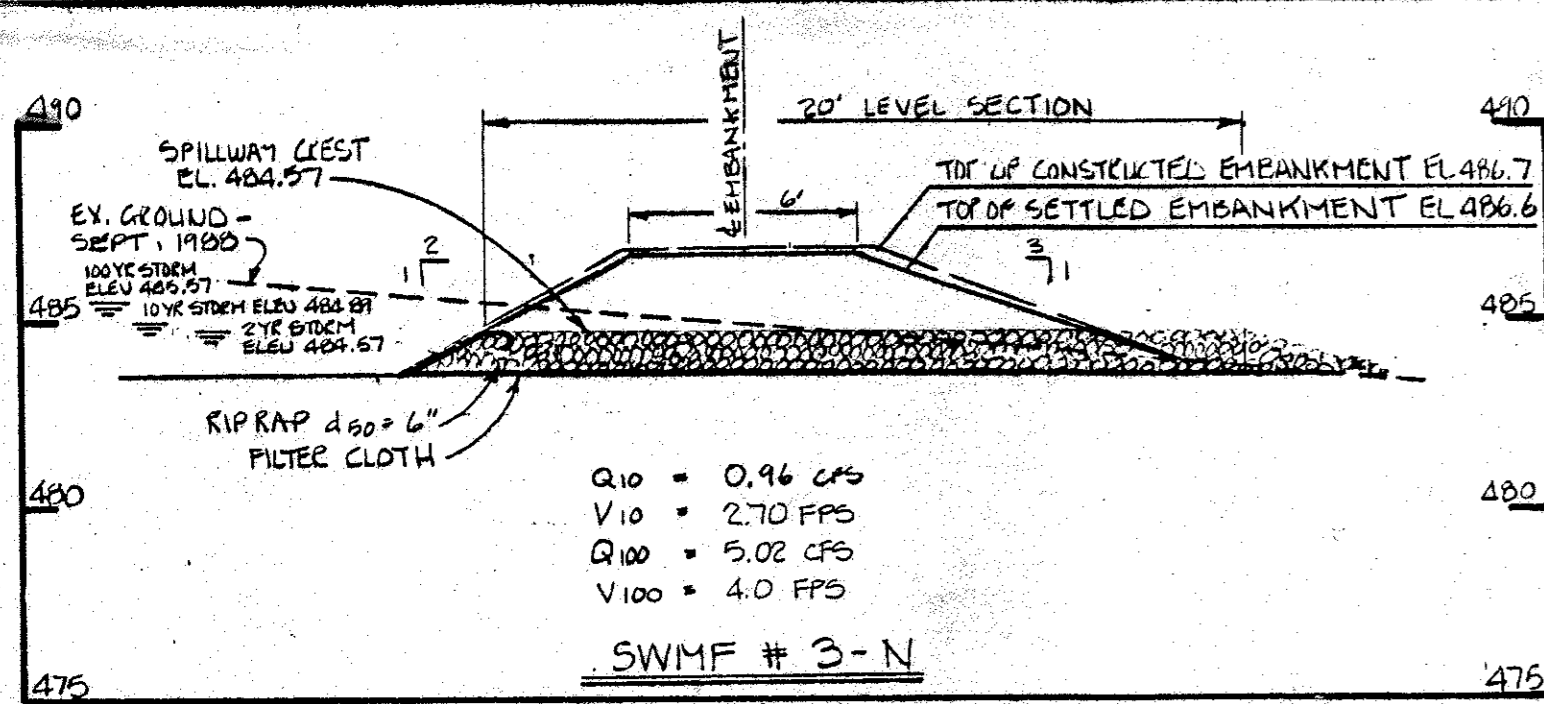
TRACY, SCHULTE & ASSOCIATES INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-4244

DEVELOPER: SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043
 (301) 465-4244

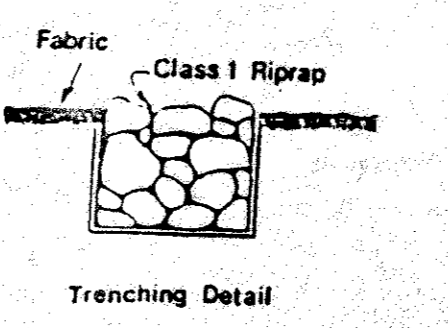
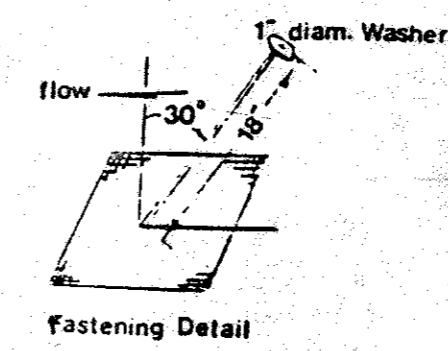
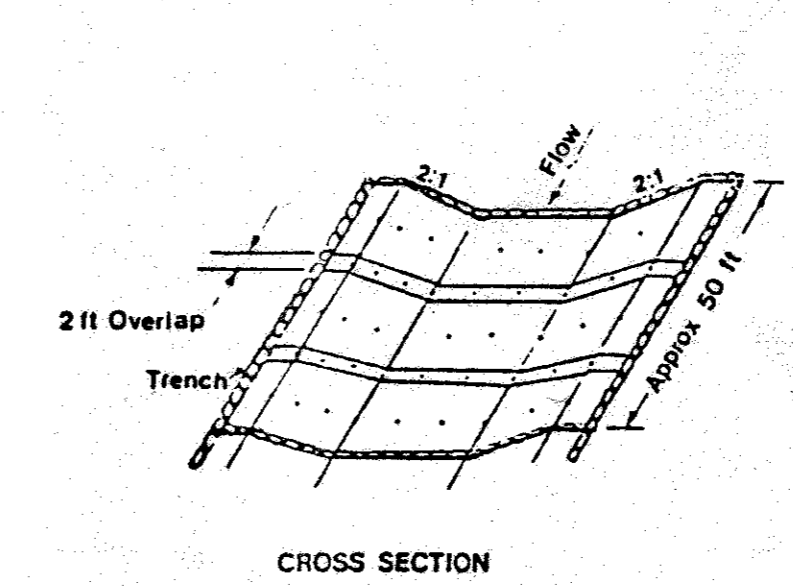
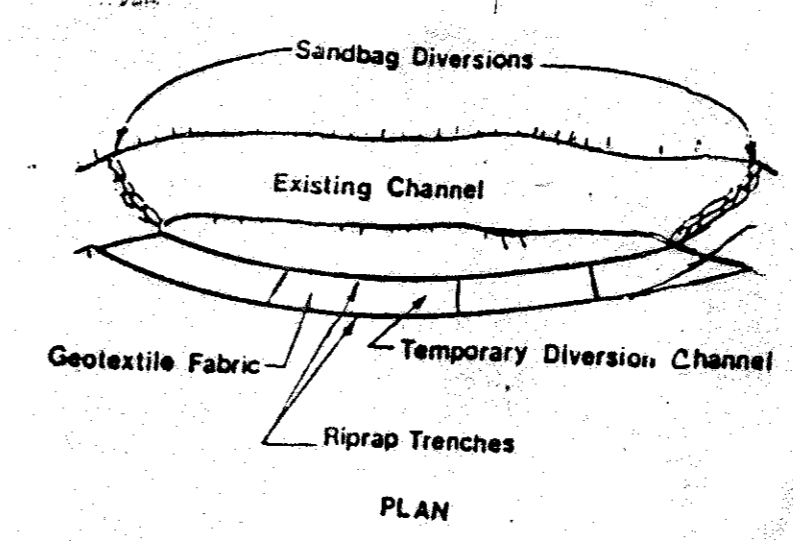
PROJECT: WELLINGTON
 SECTION TWO, AREA ONE
 LOCATION: TAX MAP 14&21, PARCELS 73&74
 4th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE: GRADING AND SEDIMENT CONTROL NOTES AND DETAILS
 DATE: 9-22-89
 OCT 12, 1990
 PROJECT NO: 0003
 SCALE: AS SHOWN
 DRAWING: 6 OF 10



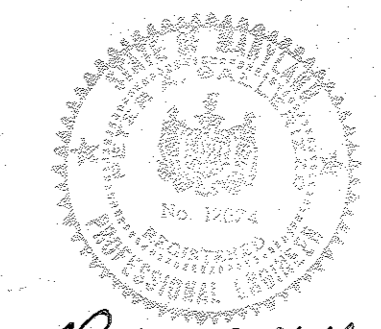
EMBANKMENT X-SECTION @ E OF SPILLWAY
SCALE: HORIZ. 1"=10'
VERT. 1"=5'

SPILLWAY X-SECTION @ E OF EMBANKMENT
SCALE: HORIZ. 1"=10'
VERT. 1"=10'



- A. Channel Excavation**
- All erosion and sediment control devices shall be installed as the first order of business.
 - All disturbance resulting from construction of the channel shall be contained by appropriate sediment control measures.
 - Excavation of the channel shall begin at the downstream end and proceed upstream. All excavated materials shall be stockpiled outside of the floodplain and temporarily stabilized to prevent re-entry into the stream channel.
 - The process of excavation and stabilization with fabric shall be a continuous (uninterrupted) operation. All materials shall be on-site prior to channel construction.
 - The downstream and upstream connection to the natural channel shall be constructed under dry conditions. The stream shall be controlled by sandbags along the cutting bank during the process of cutting the diversion channel into the natural stream channel. Excavation and stabilization shall be a continuous (uninterrupted) operation.
 - All debris (rocks, sticks, etc.) shall be removed and the channel surfaces made smooth so that the fabric will rest flush with the channel sides and bottom.
- B. Stabilization with Geotextile Fabric**
- The fabric shall have a minimum width such that it is keyed in and anchored at the top of stream bank.
 - Fabric shall be placed so that it rests flush with the channel at all points of contact.
 - Fabric shall be placed such that one piece will line the entire channel. If this is not possible, fabric shall be placed so that transverse overlapping occurs in accordance with the detail. Longitudinal overlaps shall not be allowed. Upstream sections shall overlap downstream sections. Overlap width shall equal 2 feet minimum.
 - The fabric shall be keyed into 2 x 2 foot trenches located at the upstream edge and at 50 foot intervals (the overlap nearest to each 50 foot interval). The key-in shall be from top of channel to top of channel. Class 1 riprap (MPS.1) shall be carefully placed into the trench (zero drop height).
 - The fabric sections shall be secured with holddown pins (L = 18 inch minimum) and washer (diameter = 1.0 inch minimum). Overlaps shall be pinned along transverse and longitudinal axes with spacing equal to 3 feet maximum.
 - Sediment from surrounding areas of disturbance shall not be allowed to enter the diversion channel.
- C. Removal of Diversion**
- Water shall not be allowed through the natural stream until all construction is completed.
 - After diversion of the stream through the natural stream bed, the temporary diversion channel shall be backfilled and stabilized. Points of tie-in to the natural channel shall be stabilized with riprap in accordance with MPS.1.
- D. Alternate Designs**
- The above design may be modified to allow saving of the geotextile fabric. Sewing of the geotextile fabric, rather than overlapping, would eliminate the requirement for transverse placement of the fabric. Either transverse or longitudinal placement should work equally well.
 - The spacing of the pins could be either larger or smaller depending on the anticipated velocities and thickness and type of geotextile fabric.
 - The entire bottom of the channel could be riprapped if high velocities were anticipated. When the area is riprapped, it is not required that the geotextile fabric underneath the riprap be pinned.

**FABRIC BASED STREAM CHANNEL
DIVERSION NOTES & DETAILS**
NO SCALE



Peter A. Gallerizzo

BY THE DEVELOPER:
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN," AND THAT ANY 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."
James R. Moxley Jr.
DEVELOPER: JAMES R. MOXLEY JR.
SECURITY DEVELOPMENT CORPORATION - PRESIDENT
11-21-90
DATE

"I 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."
Peter A. Gallerizzo
ENGINEER: PETER A. GALLERIZZO, PE
11-21-90
DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
James M. Helm/JKH
S.O.C.D. SOIL CONSERVATION DISTRICT
11/30/90
DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
John Robertson
HOWARD S.C.D.
11/29/90
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Chief, Land Development Division
Granville W. Wellwood
12/7/90
DATE

Chief, Bureau of Highways
12-13-90
DATE

Chief, Bureau of Engineering
12-13-90
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Division of Community Planning and Land Development
12/13/90
DATE

NO	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.
planning • architecture • engineering
8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105
James K. Tracy

OWNER: SECURITY DEVELOPMENT CORP.
P.O. BOX 417
ELLICOTT CITY, MARYLAND 21043
(301) 465-4244

DEVELOPER: SECURITY DEVELOPMENT CORP.
P.O. BOX 417
ELLICOTT CITY, MARYLAND 21043
(301) 465-4244

DES: SUB DRN.FDM/JCA

PROJECT: WELLINGTON
SECTION TWO, AREA ONE
LOCATION: TAX MAP 14&21, PARCELS 73&74
4th ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

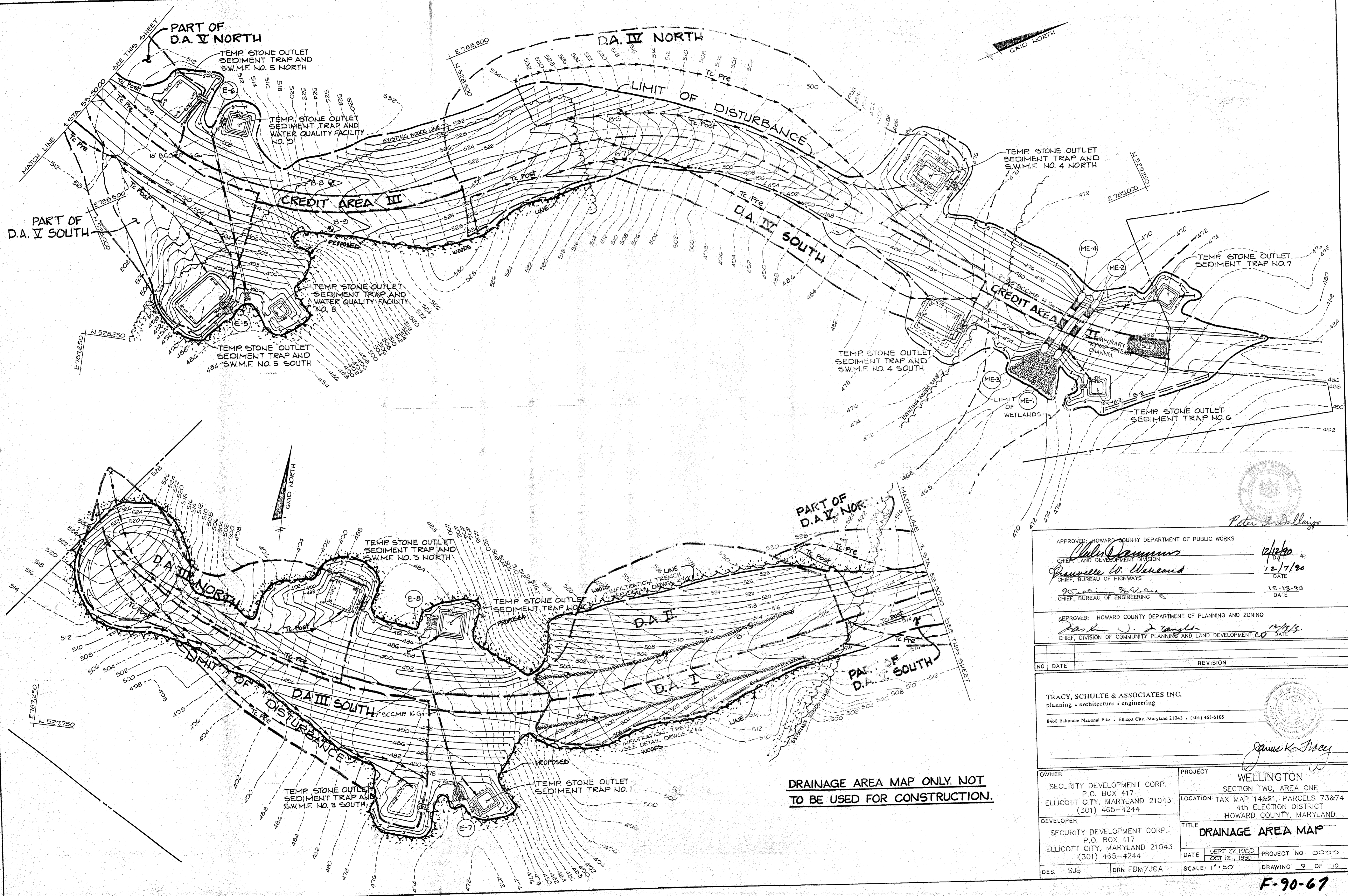
TITLE: S.W.M. PROFILES, STREAM
DIVERSION NOTES AND DETAILS

DATE: SEPT. 22, 1990
OCT. 12, 1990

PROJECT NO.: 00000

SCALE: AS SHOWN

DRAWING: 7 OF 10



DRAINAGE AREA MAP ONLY. NOT TO BE USED FOR CONSTRUCTION.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
John Dammann 12/12/90
 CHIEF, LAND DEVELOPMENT DIVISION DATE
Samuel W. Weiland 12/7/90
 CHIEF, BUREAU OF HIGHWAYS DATE
William E. Brown 12-13-90
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Mark J. Taylor 12/13/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

NO	DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.
 planning • architecture • engineering
 8480 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105

OWNER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT WELLINGTON SECTION TWO, AREA ONE LOCATION TAX MAP 14&21, PARCELS 73&74 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DEVELOPER SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 (301) 465-4244	TITLE DRAINAGE AREA MAP
DES. SUB DRN FDM/JCA	DATE SEPT 22, 1990 OCT 12, 1990
SCALE 1" = 50'	PROJECT NO. 00999
	DRAWING 9 OF 10

F-90-67

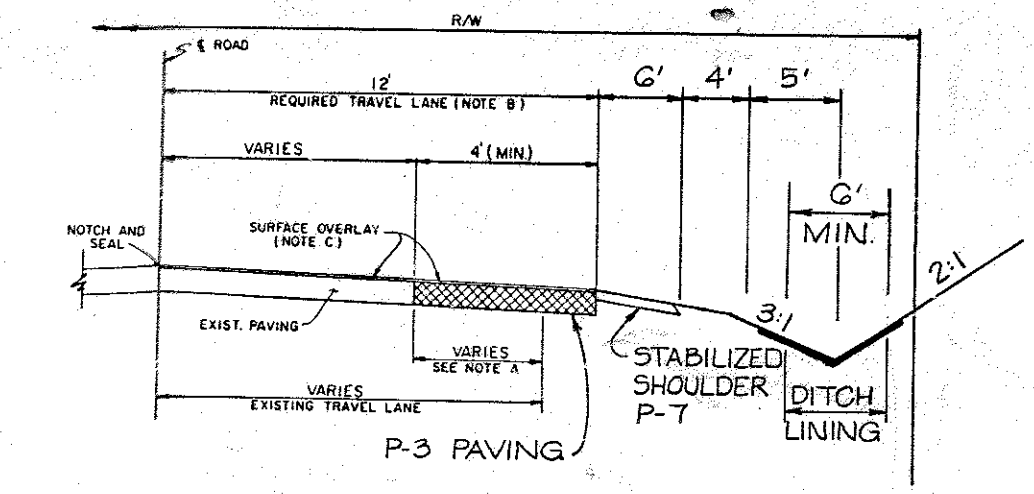
1488

CURVE DATA
UNION CHAPEL ROAD

$\Delta = 36^{\circ}05'25''$
 $R = 286.04'$
 $L = 176.18'$
 $T = 90.44'$
 $D = 20^{\circ}01'51''$
 $Chd = S 89^{\circ}58'18'' E, 172.40'$

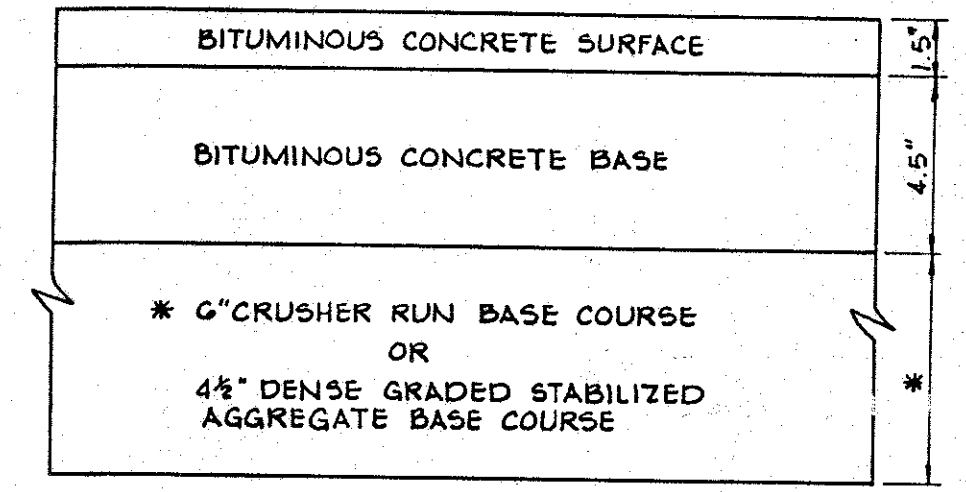
$\Delta = 15^{\circ}20'20''$
 $R = 223.60'$
 $L = 243.93'$
 $T = 125.76'$
 $D = 06^{\circ}12'15''$
 $Chd = S 80^{\circ}10'50'' E, 240.23'$

NOTE: UNION CHAPEL ROAD IMPROVEMENTS WILL BE REQUIRED ALONG PARCEL No. 222 WITHIN THE HIGHWAY DEDICATION AS SHOWN ON PLAT Nos. 10362 & 10363 (F-92-30) UPON SUBDIVISION OF PARCEL 222.

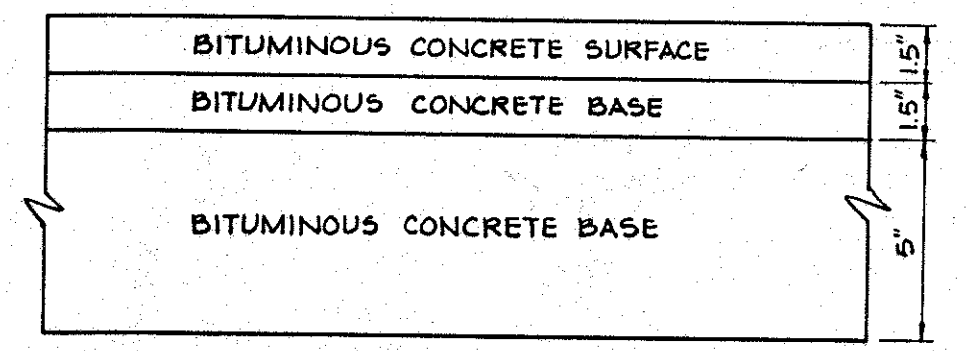


NOTE A - WHEN EXISTING TRAVEL LANE IS LESS THAN THE REQUIRED 12' LANE, CONTRACTOR SHALL REMOVE EXCESS OF THE EXISTING ROAD BED TO PROVIDE A MINIMUM BASE WIDENING OF 4'
 NOTE B - THE SURFACE OVERLAY SHALL BE CARRIED TO THE E OF THE ROAD AND NOTCHED AND SEALED
 NOTE C - SURFACE OVERLAY COURSE TO BE EQUAL TO SURFACE COURSE OF TYPICAL PAVING SECTION OF SUBDIVISION
 NOTE D - E OF ROAD TO BE MILLED AT DEPTH OF 1/2" x 1' WIDE USING A MILLING MACHINE

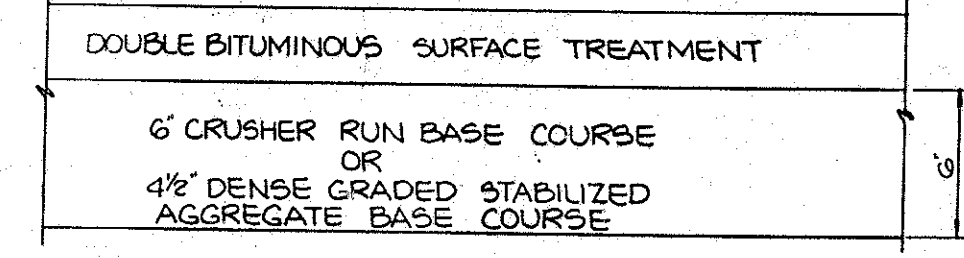
ZONED R
 UNION CHAPEL ROAD
 DESIGN SPEED 50 MPH
 ROAD CLASSIFICATION - MAJOR COLLECTOR
 STA 4+50 TO 6+09.24
TYPICAL HALF SECTION
 NO SCALE



(ALTERNATE)

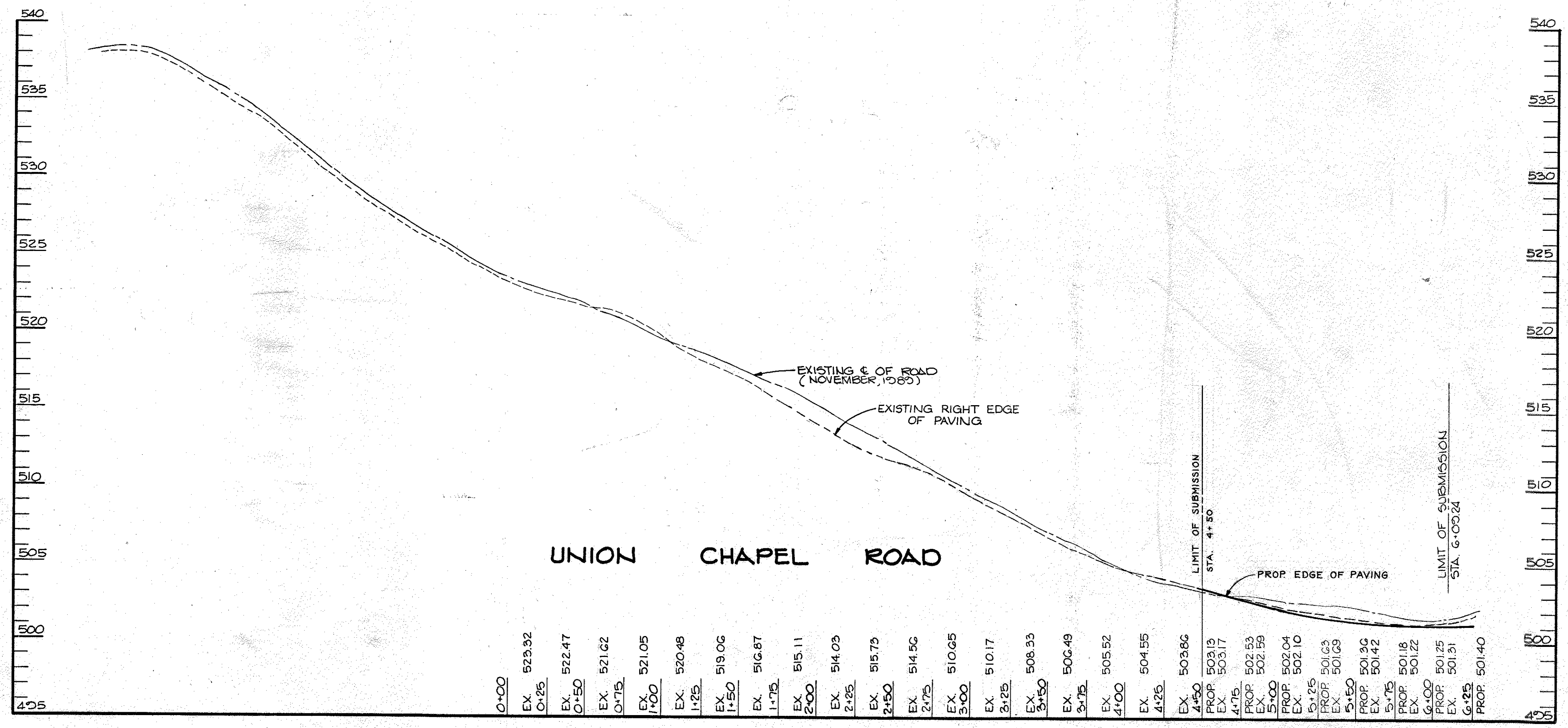
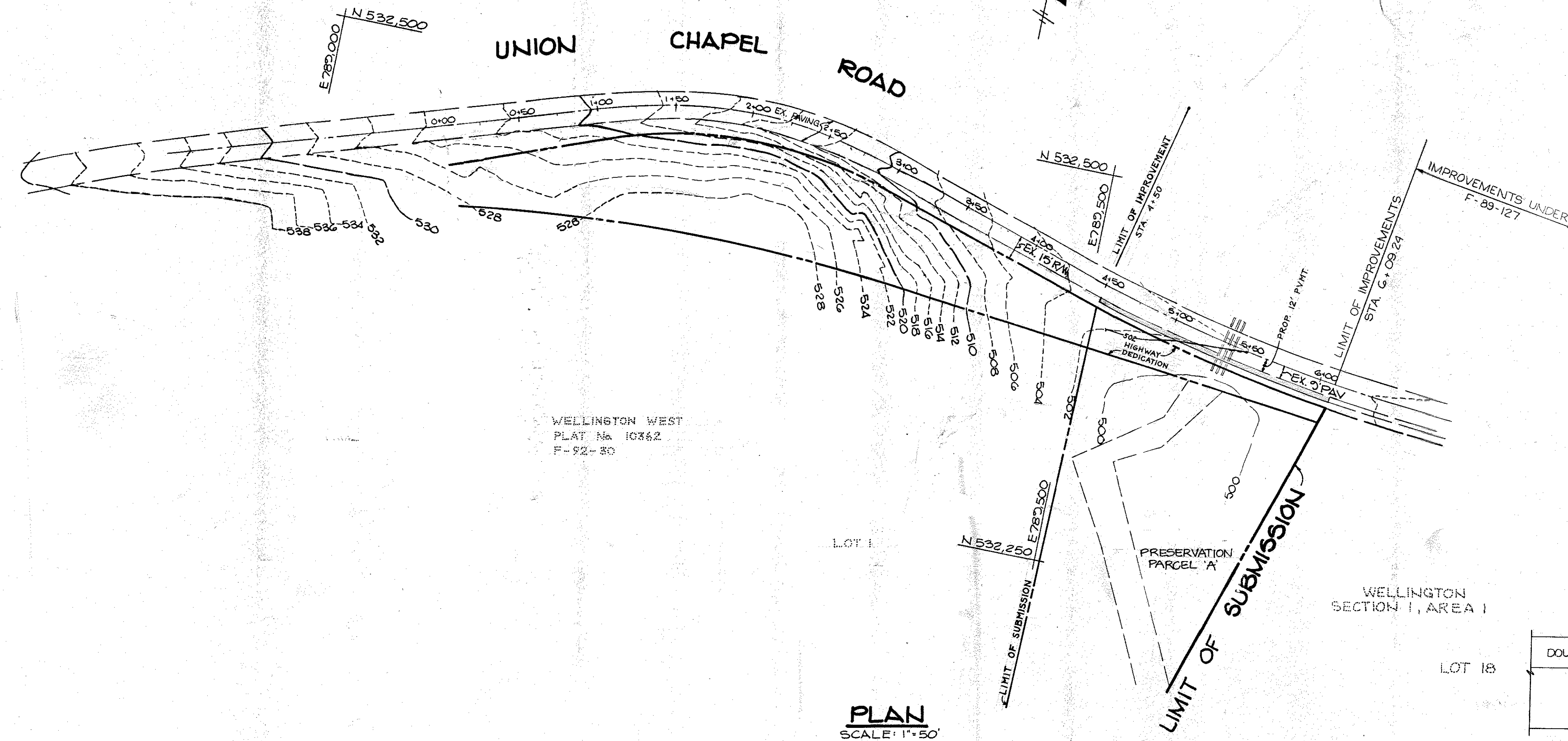


HOWARD COUNTY DESIGN MANUAL VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (DRAWING R-2.01)



P-7 PAVING
NO SCALE

8" PAVING, P-3
NO SCALE



0+00	EX. 523.32
0+25	EX. 522.47
0+50	EX. 521.62
0+75	EX. 521.05
1+00	EX. 520.48
1+25	EX. 519.06
1+50	EX. 518.87
1+75	EX. 515.11
2+00	EX. 514.09
2+25	EX. 515.79
2+50	EX. 514.90
2+75	EX. 510.65
3+00	EX. 510.17
3+25	EX. 508.33
3+50	EX. 500.49
3+75	EX. 505.52
4+00	EX. 504.55
4+25	EX. 503.80
4+50	PROP. 503.13
4+75	EX. 502.53
5+00	EX. 502.59
5+25	PROP. 502.04
5+50	EX. 502.10
5+75	PROP. 501.63
6+00	EX. 501.63
6+25	PROP. 501.90
6+50	EX. 501.42
6+75	PROP. 501.16
7+00	EX. 501.22
7+25	PROP. 501.25
7+50	EX. 501.31
7+75	PROP. 501.40
8+00	PROP. 501.40

PROFILE
SCALE: HOR. - 1"=50', VERT. - 1"=5'

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Chris Dammer 12/12/90
 CHIEF, LAND DEVELOPMENT DIVISION DATE

Francis W. Weland 12/7/90
 CHIEF, BUREAU OF HIGHWAYS DATE

William S. Ray 12-13-90
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Paul J. Anglen 12/13/90
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

12-9-92	ELIMINATE OFFSITE IMPROVEMENTS TO UNION CHAPEL ROAD
12-4-95	REV. DUE TO RESUBDIV., LOTS, TREES, GUARDRAIL, INFILTRATION TRENCH STATION

NO DATE REVISION

TRACY, SCHULTE & ASSOCIATES INC.
planning • architecture • engineering

8480 Baltimore National Pike • Elliott City, Maryland 21043 • (301) 465-6105

Peter A. Schilling

OWNER:	SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (301) 465-4244	PROJECT:	WELLINGTON SECTION TWO, AREA ONE
DEVELOPER:	SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLCOTT CITY, MARYLAND 21043 (301) 465-4244	LOCATION:	TAX MAP NO. 14 & 21 PARCEL NO. 73 & 74 4th ELECTION DISTRICT HOWARD COUNTY, MARYLAND
DATE:	APRIL 24, 1990 OCT 12, 1990	TITLE:	PLAN AND PROFILE OF UNION CHAPEL ROAD
DES: SJB	DRN: JCA	SCALE:	AS SHOWN
		PROJECT NO.:	0099
		DRAWING NO. OF	10

F-90-67