

SHEET INDEX

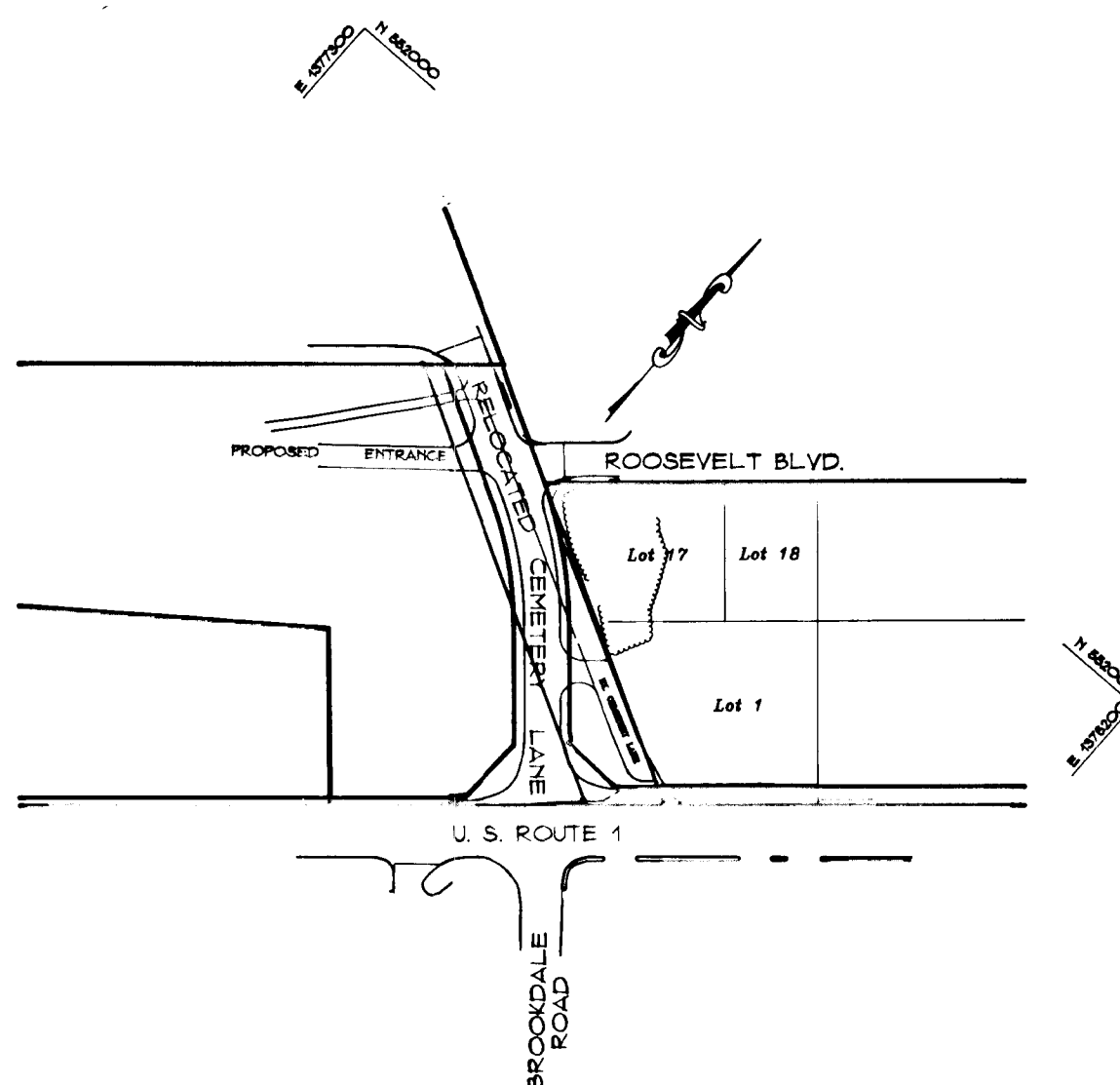
NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN AND PROFILE
3	DRAINAGE AREA MAP AND STORM DRAIN PROFILE
4	GRADING, SEDIMENT CONTROL AND STREET TREE PLAN
5	DETAILS
6	SEDIMENT CONTROL NOTES AND DETAILS

ROADWAY AND STORM DRAIN RELOCATED CEMETERY LANE 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

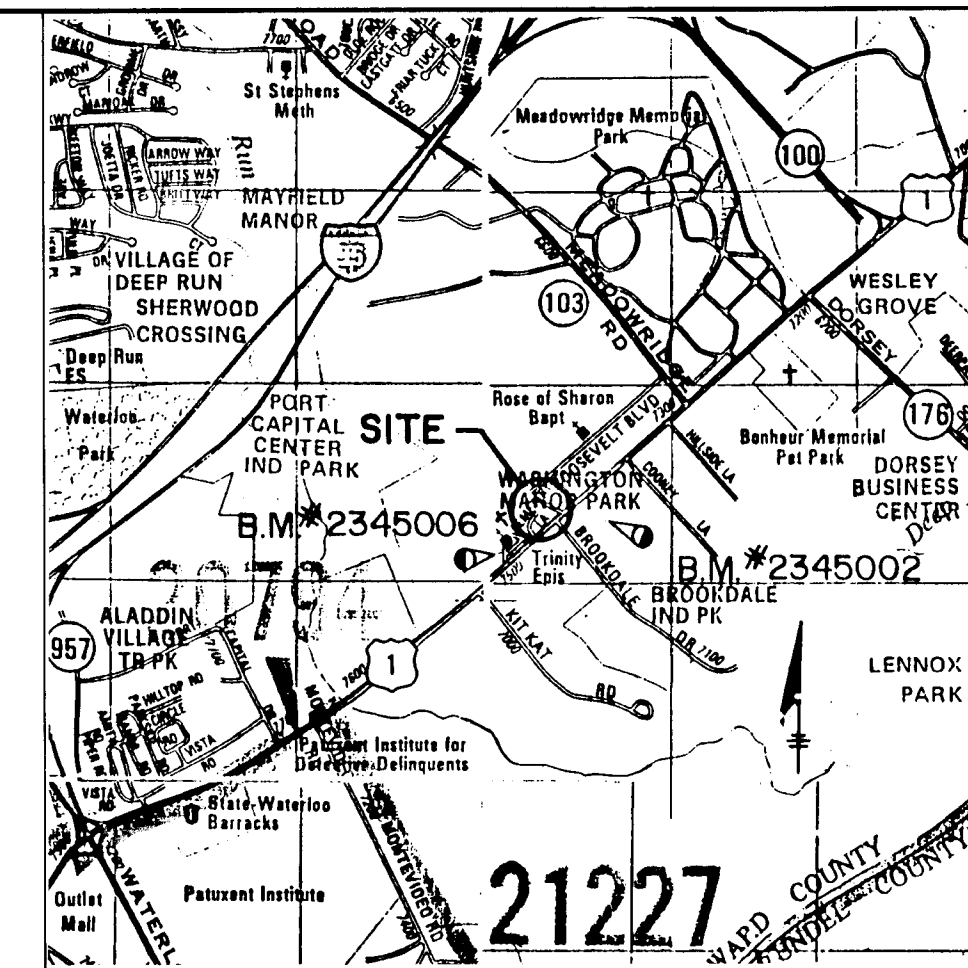
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR ROAD CONSTRUCTION.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN 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.

MISS UTILITY	1-800-257-7777
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	313-2366
HOWARD COUNTY CONSTRUCTION INSPECTION	313-1870
SURVEY DIVISION	313-2417/2418
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL STREET CURB RETURNS SHALL HAVE 25.0' RADII 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 1991 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:
INTERMEDIATE ARTERIALS DESIGNED FOR 50 M.P.H., ALL LOCAL STREETS DESIGNED FOR 30 M.P.H.
- ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
- ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM 95% OF MAXIMUM OBTAINABLE DENSITY DETERMINED BY MARSHALL PROCTOR.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- PROFILE STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN DIMENSIONS.
- SEE ALSO HOWARD COUNTY FILE # SDP-95-73
SDP-96-19
ZB-955M&R
WF-95-72
- ACCESS PERMIT REQUIRED FROM S.H.A.
- BELL ATLANTIC IS TO COMPLETE ENCASUREMENT OF EXISTING CONDUIT BENEATH PROPOSED RELOCATED CEMETERY LANE PRIOR TO CONSTRUCTION. BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR SHALL CONTACT MR. JOHN LESLIE ON (410-393-6185) OR MR. MIKE FERGUSON (410-393-6094), TO VERIFY THAT THE ENCASEMENT IS COMPLETED.
- CONTRACTOR IS TO CALL SHA, DISTRICT 7 OFFICE PRIOR TO START OF WORK. ALL CONSTRUCTION ALONG ROUTE 1 WILL BE COORDINATED WITH MR. DON FISHER OF THAT OFFICE. (301) 674-2595



LOCATION MAP

SCALE: 1" = 200'



VICINITY MAP

SCALE: 1" = 2000'

BENCH MARK DESCRIPTIONS

S.H.A. SURVEY CONTROL POINT #3 EL. 210.611
STAMPED CONCRETE MONUMENT NORTH WEST
SIDE OF U.S. ROUTE 1 AND SOUTH ENTRANCE
TO LUSKINS.
N 551,109.640
E 1,377,461.667

S.H.A. SURVEY CONTROL POINT # 13 EL. 209.665
STAMPED CONCRETE MONUMENT NORTH EAST
SIDE OF U.S. ROUTE 1 AND 303± EAST OF
C OF BROOKDALE ROAD.
N 551,655.008
E 1,378,176.940

NOTE:
INSTALL GALVANIZED POLE AND GRAY FIXTURE
(250 WATT-CUTOFF) WITH BREAKAWAY BASE.
STA. 9+50, 45' RIGHT OF BASE LINE
CEMETERY LANE.

APPROVED: DEPARTMENT OF PUBLIC WORKS								
<i>Andrew M. Deneke</i> CHIEF, BUREAU OF HIGHWAYS		1-30-96 DATE						
APPROVED: DEPARTMENT OF PLANNING AND ZONING								
<i>Uma Swinmory</i> CHIEF, DIVISION OF LAND DEVELOPMENT AND RESEARCH		2/2/96 DATE						
<i>Mike Deane</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION		2/1/96 DATE						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>No</th> <th>Revision Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Date	No	Revision Description			
Date	No	Revision Description						
OWNER/DEVELOPER								
BROWNING-FERRIS, INC. C/O JAMES E. STONE 7521 CEMETERY LANE ELKCRIDGE, MARYLAND 21227 (410) 799-7822								
TAX MAP No. 43 PARCEL No. 599 & 624 ELECTION DIST. 1								
PHOENIX ENGINEERING, INC. CONSULTING ENGINEERS 817 MAIDEN CHOICE LANE, SUITE 300 BALTIMORE, MARYLAND 21228 (410) 247-8833 FAX 247-9397								
AREA								
RELOCATED CEMETERY LANE AT U.S. ROUTE 1								
TITLE								
TITLE SHEET								
Des By	E.M.P.	Scale						
Drn By	O.R.B.	Date DEC. 1995						
Chk By	H.R.P.	Approved DEC. 1995						
Date 12/14/95 Herbert R. Plitt Professional Engr. No. 5407		Proj No. 95-0050 DRAWING NO. 1 OF 6						

1782

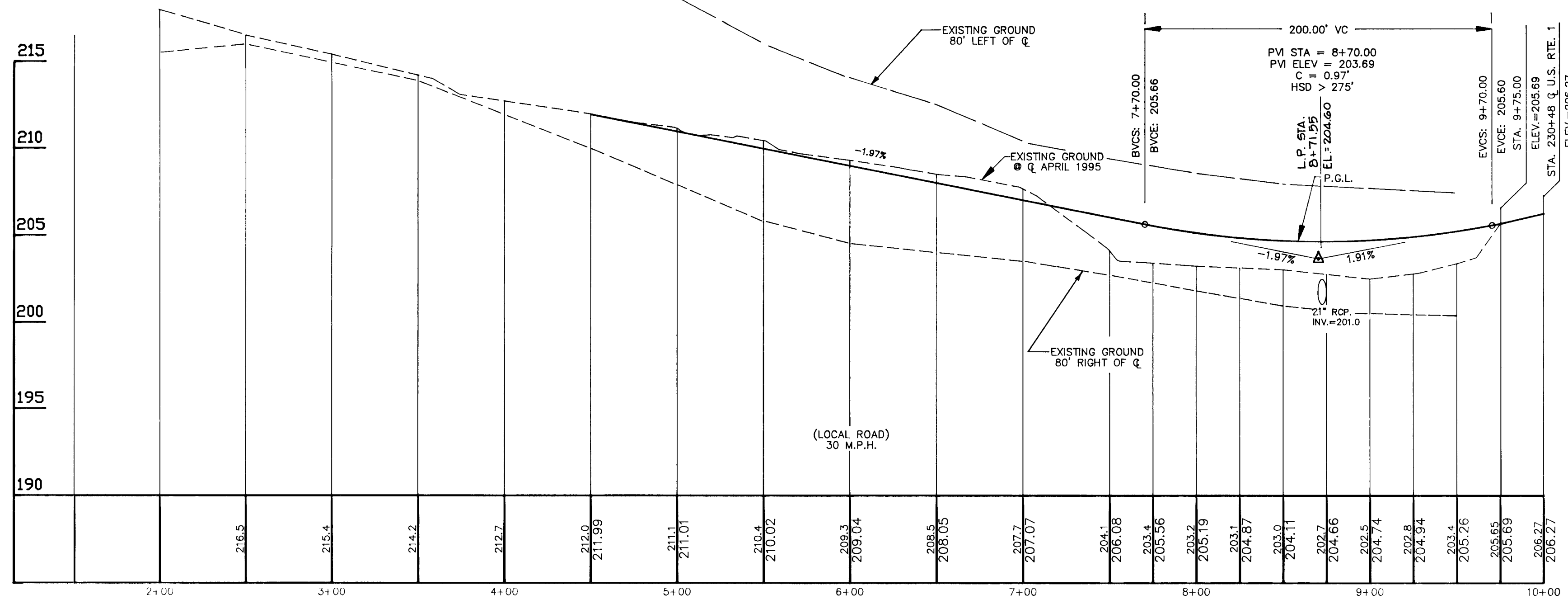
F95-112

STRUCTURE SCHEDULE						
NO.	TYPE	LOCATION	INV. IN	INV. OUT	TC. ELEV	REMARKS
I-2	A-5	19' LT. OF STA. 8+71.55 RELOC. CEMETERY LA.	201.50	201.00	204.69	HO. CO. STD. SD - 4.01'
I-1	A-5	19' RT. OF STA. 8+71.55 RELOC. CEMETERY LA.	200.80	200.60	204.69	HO. CO. STD. SD - 4.01'
ES 1	CONCRETE END SECTION	38' RT. OF STA. 8+71.55 RELOC. CEMETERY LA.	----	200.50	----	HO. CO. STD. SD - 5.82'
ES 2	METAL END SECTION	9' LT. OF STA. 1+277 ENTRANCE ROAD TO VESTRY	----	204.07	----	HO. CO. STD. SD - 5.81'
ES 3	METAL END SECTION	9' RT. OF STA. 1+335 ENTRANCE ROAD TO VESTRY	204.61	----	----	HO. CO. STD. SD - 5.81'

ALL STORM DRAIN BEDDING SHALL BE CLASS 'C' UNLESS OTHERWISE NOTED.

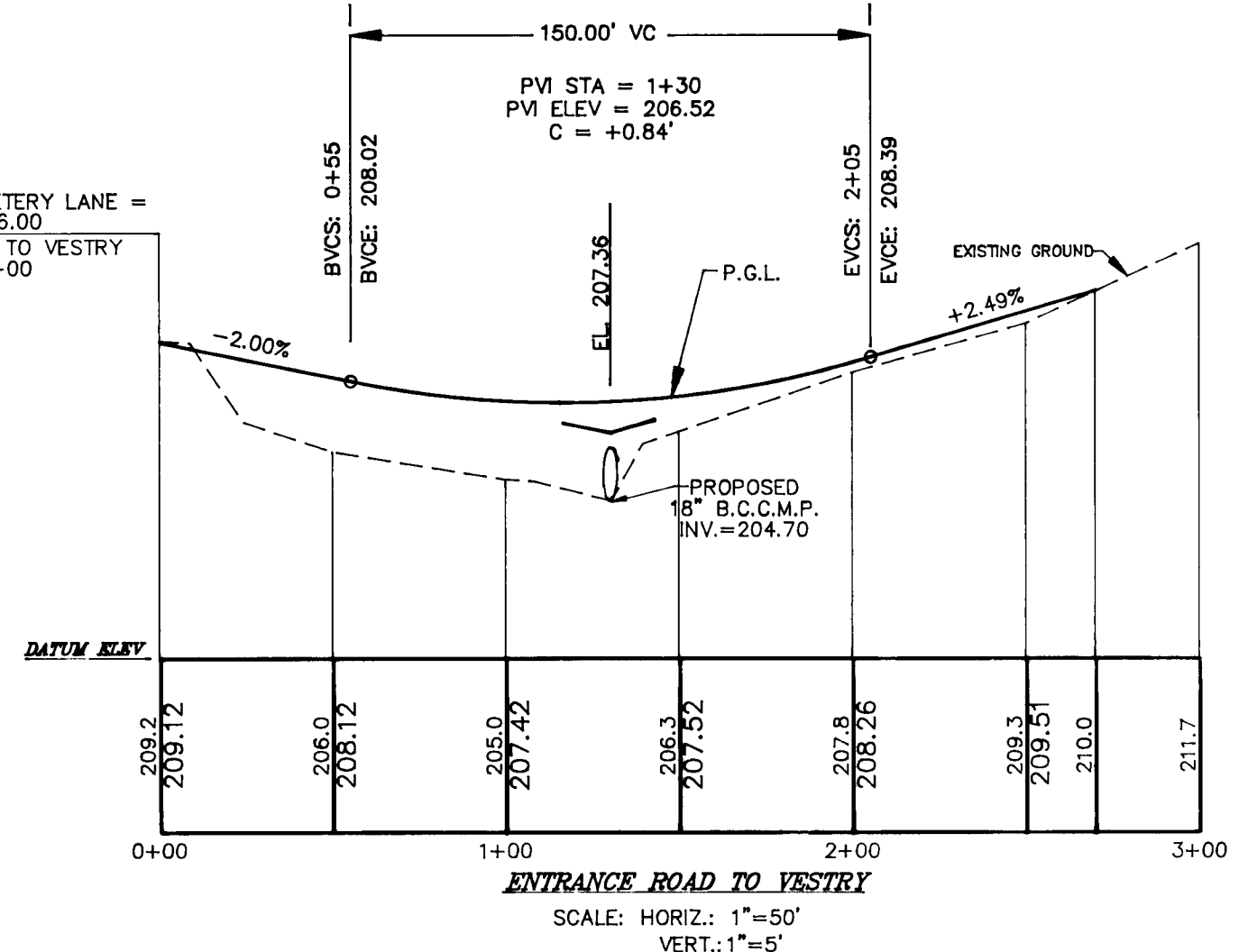
COORDINATE POINTS - PROPOSED CEMETERY LANE

STA. 230+48.38 U.S. RTE. 1	N 551,475.8656
STA. 10+00.00 PROP. CEM. LA.	E 1,377,929.4623
P.T. STA. 7+71.5557	N 551,647.9356 E 1,377,778.8942
P.I. STA.	N 551,702.7019 E 1,377,730.9713
P.C. STA. 6+27.2938	N 551,737.6082 E 1,377,667.1159
P.O.T. STA. 4+50	N 551,822.6477 E 1,377,511.5501



RELOCATED CEMETERY LANE PROFILE

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



LEGEND

- NEW CONSTRUCTION
- EXISTING PAVEMENT TO REMAIN

APPROVED: DEPARTMENT OF PUBLIC WORKS
Andrew M. Donohue 1-30-96
CHIEF, BUREAU OF HIGHWAYS NS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Quina Swinmanson 2/2/96
CHIEF DIVISION AND LAND DEVELOPMENT AND RESEARCH CM DATE
Bob Danner 2/1/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION EAL DATE

Date	No	Revision Description

OWNER/DEVELOPER
BROWNING-FERRIS, INC.
C/O JAMES E. STONE
7521 CEMETERY LANE
ELKRIE, MARYLAND 21227
(410) 799-7822

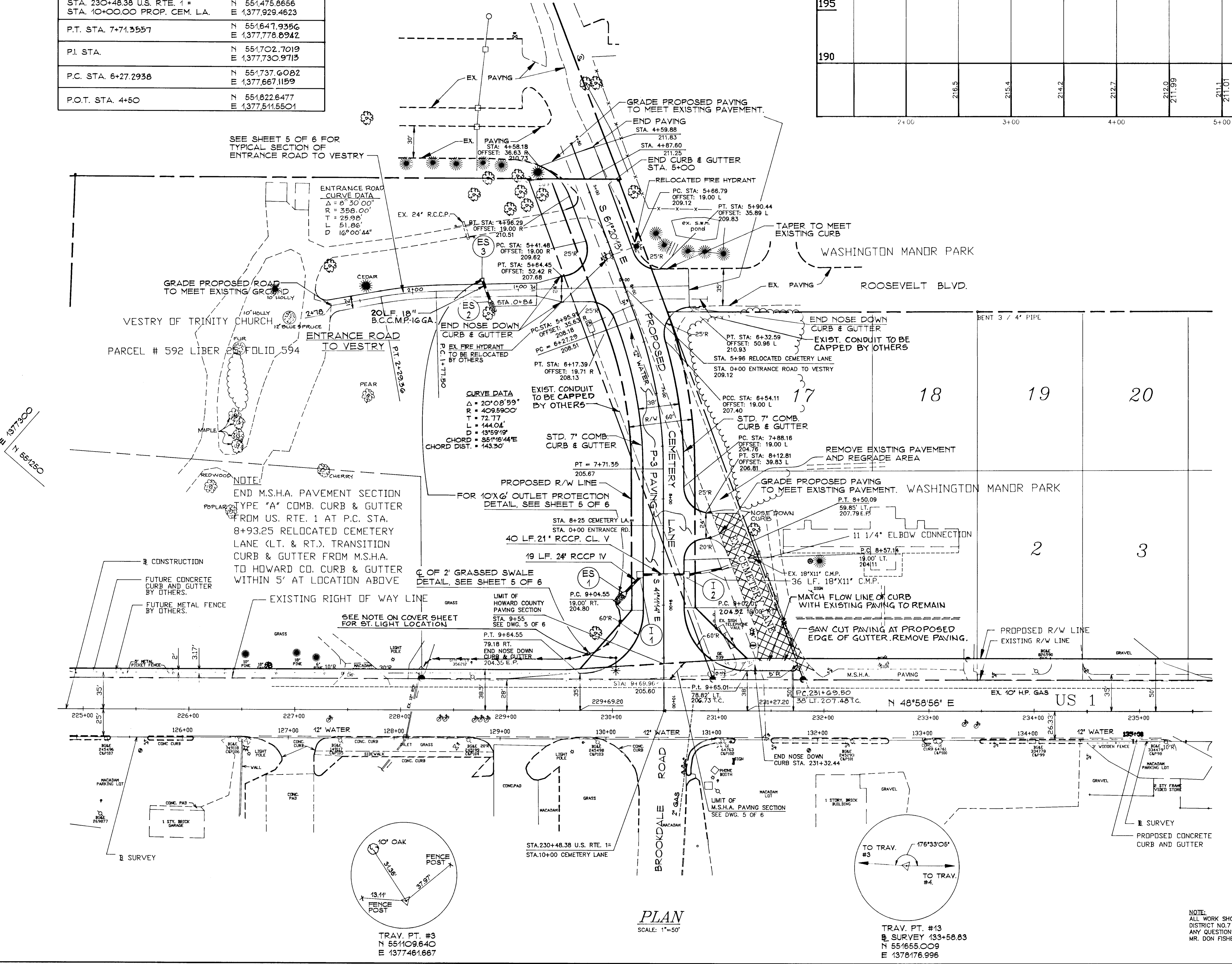
PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
817 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

RELOCATED CEMETERY LANE AT U.S. ROUTE 1

PLAN & PROFILE

Des By	E.M.P.	Scale	1" = 50'	Proj No	1995-0050
Drn By	D.R.B.	Date	DEC. 1995	DRIVING NO	2 OF 6
Chk By	H.R.P.	Approved			

TAX MAP No. 43
PARCEL No. 599 & 624
ELKRIE DIST. 1
12/14/95
Date
Herbert R. Plitt
HERBERT R. PLITT
Professional Engr. No. 5407



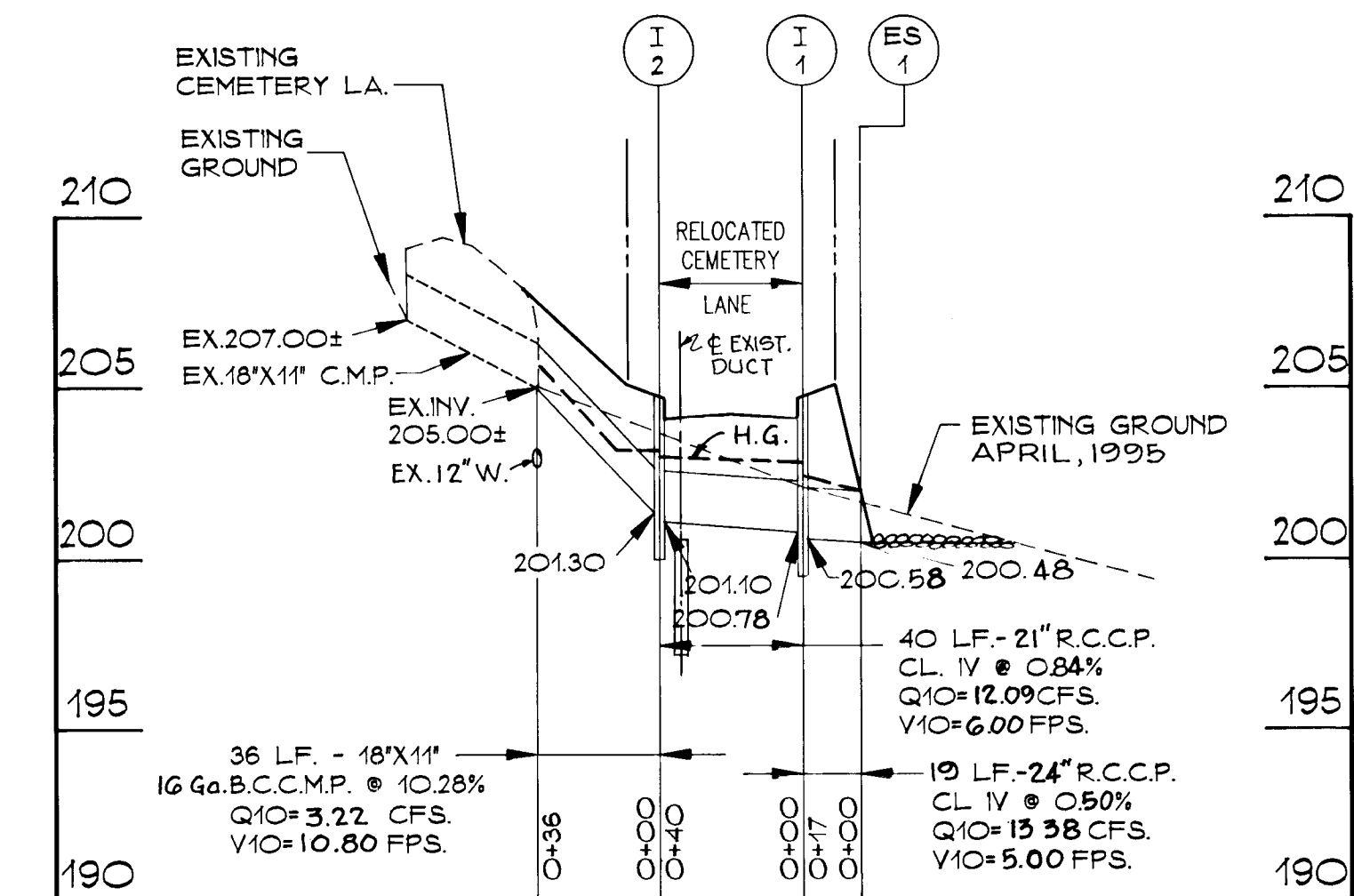
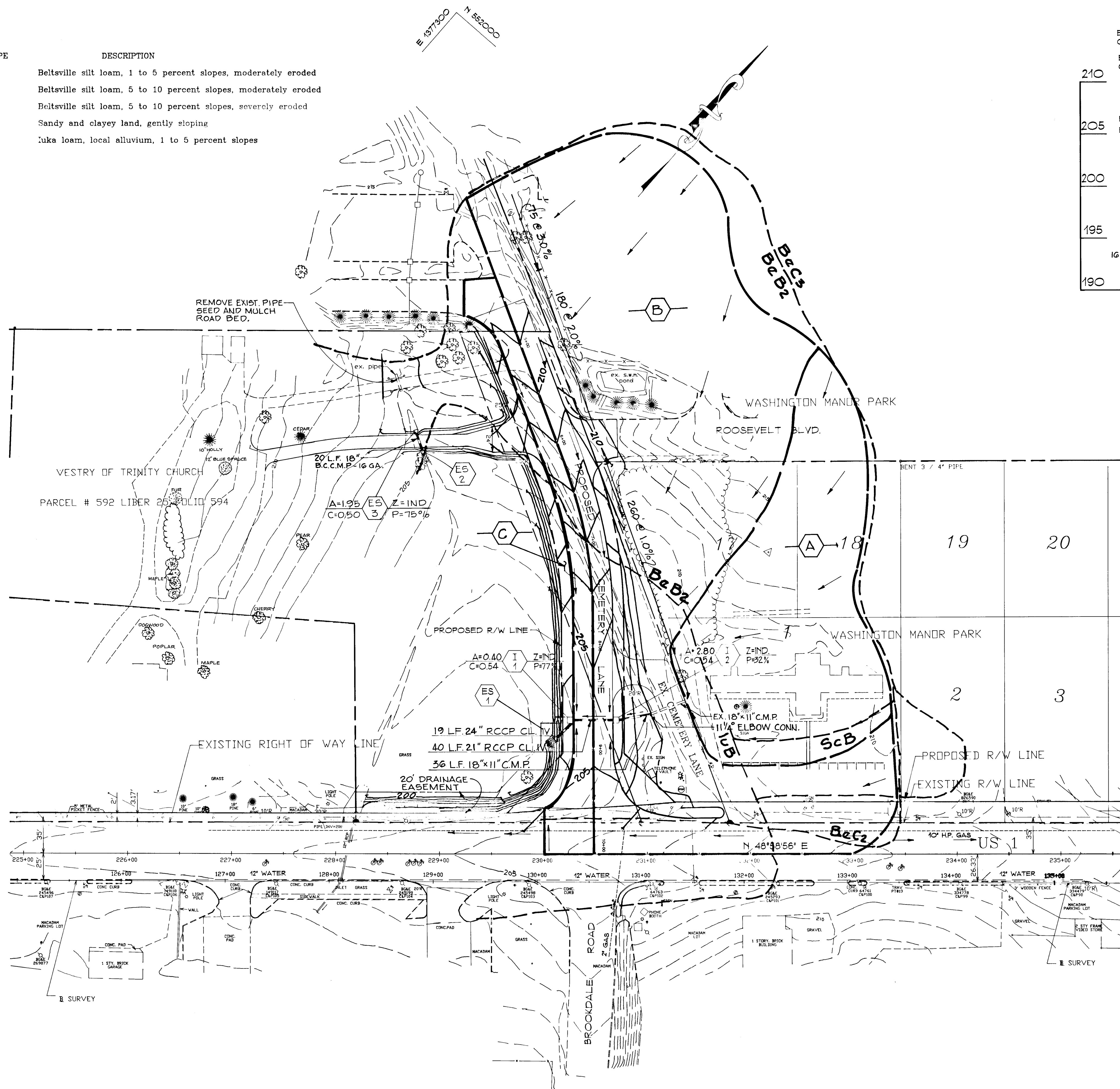
PLAN

SCALE: 1"=50'

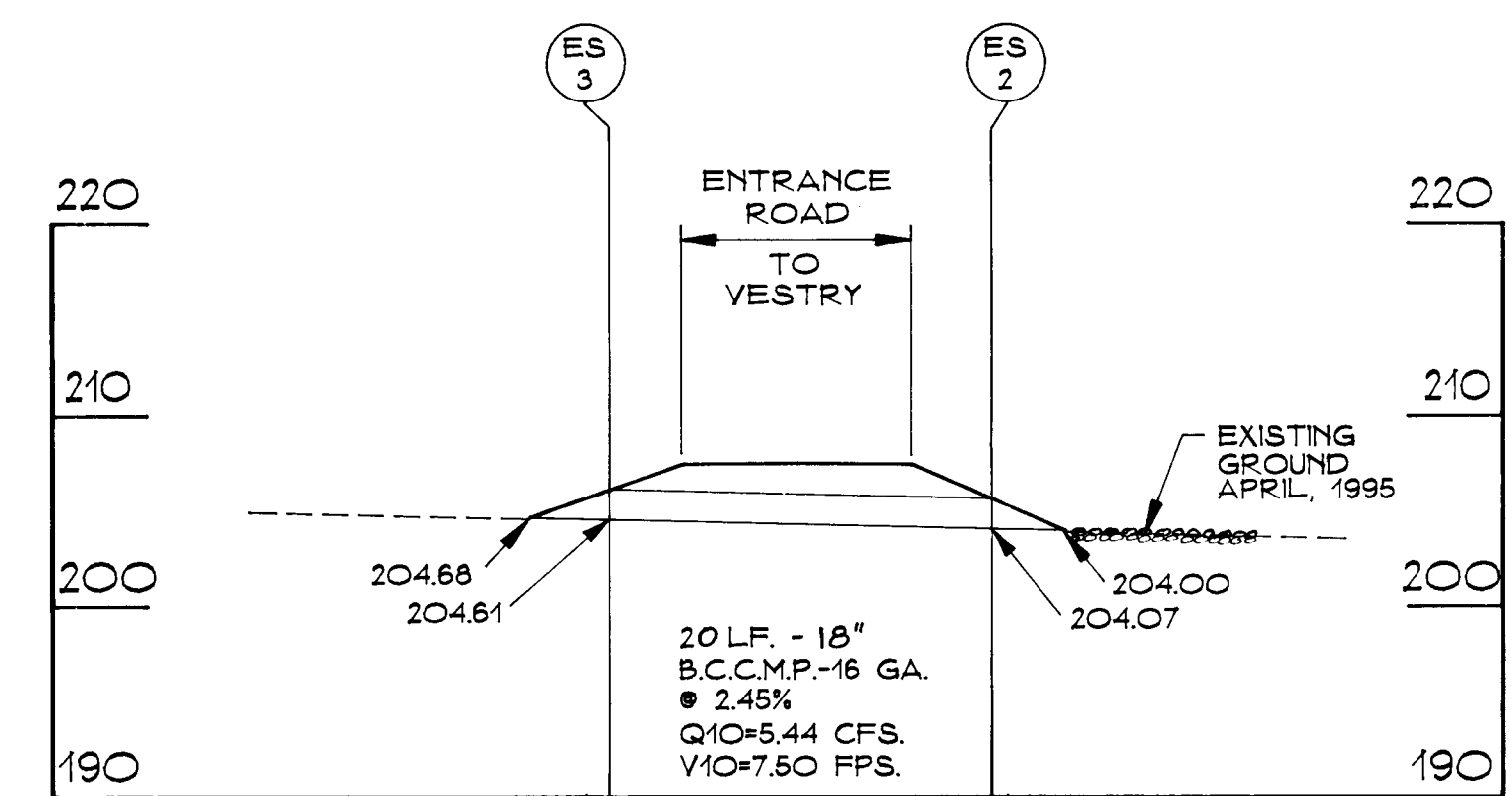
NOTE: ALL WORK SHOULD BE COORDINATED WITH DISTRICT NO. 7 CONSTRUCTION OFFICE. ANY QUESTIONS CALL MR. JOHN CONCANNON OR MR. DON FISHER.

1782

SYMBOL	TYPE	DESCRIPTION
BeB2	C	Beltville silt loam, 1 to 5 percent slopes, moderately eroded
BeC2	C	Beltville silt loam, 5 to 10 percent slopes, moderately eroded
BeC3	C	Beltville silt loam, 5 to 10 percent slopes, severely eroded
ScB	C	Sandy and clayey land, gently sloping
IuB	C	Iuka loam, local alluvium, 1 to 5 percent slopes



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



PROFILE
SCALE: HORIZ: 1" = 10'
VERT: 1" = 10'

APPROVED: DEPARTMENT OF PUBLIC WORKS
Richard M. ... 1-30-96
CHIEF, BUREAU OF HIGHWAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Jim Swannick 2/2/96
CHIEF, DIVISION AND LAND DEVELOPMENT AND RESEARCH

Date	No	Revision Description

OWNER/DEVELOPER
BROWNING-FERRIS, INC.
C/O JAMES E. STONE
7521 CEMETERY LANE
ELKRIDGE, MARYLAND 21227
(410) 799-7822

TAX MAP No. 43
PARCEL No. 999 & 624
ELECTION DIST. 1

9-22-95
Date

HERBERT R. PLUTT
Professional Engr. No. 5407

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
817 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

AREA
RELOCATED CEMETERY LANE AT
U.S. ROUTE 1

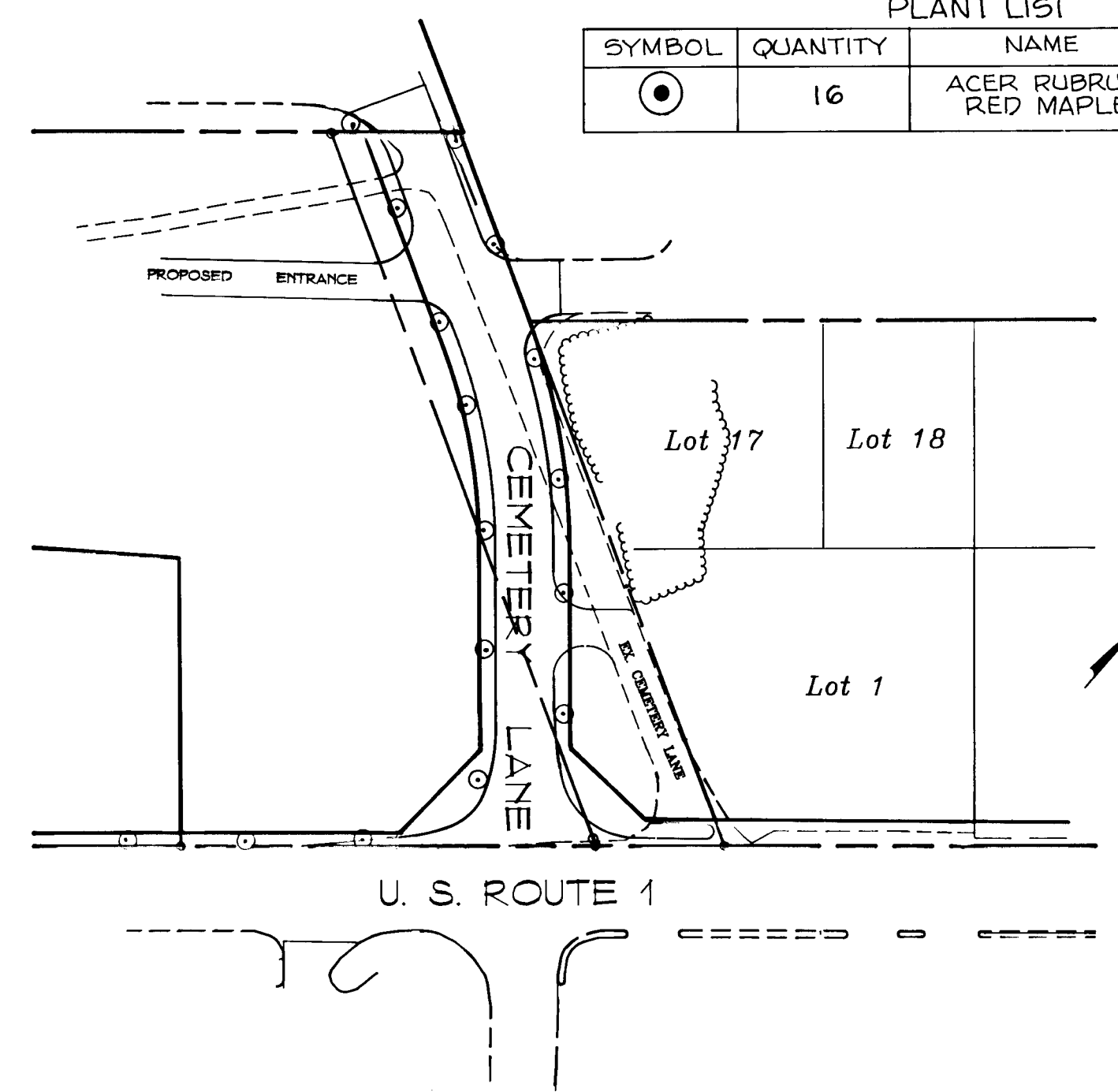
TITLE
DRAINAGE AREA MAP
AND STORM DRAIN PROFILE

Des By	E.M.P.	Scale	1" = 50'	Proj No	CEMURAIN.DWG 95-0050
Drn By	D.R.B.	Date	DEC. 1995	DRAWING NO	
Chk By	H.R.P.	Approved			3 OF 6

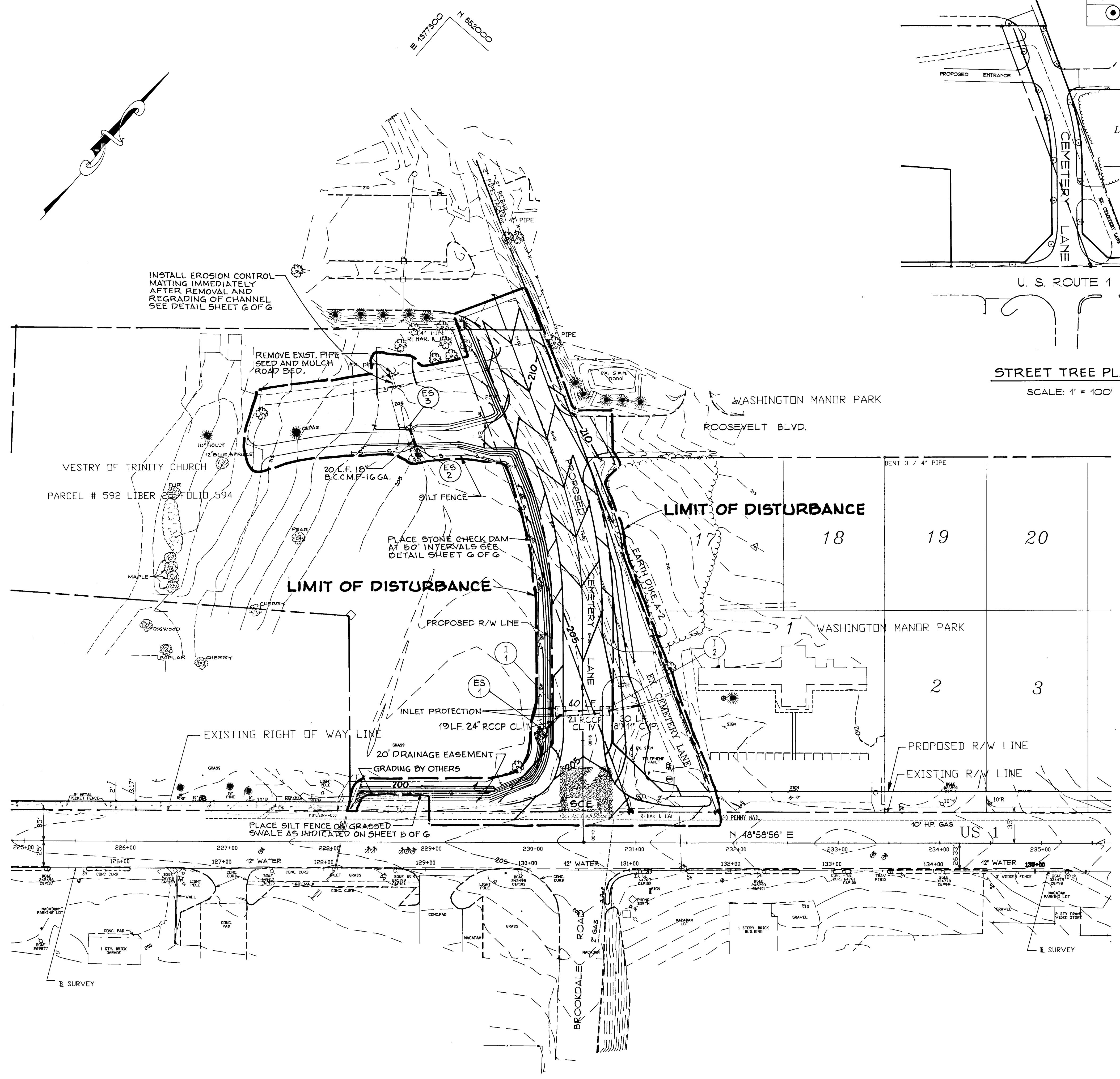
1782

1732

PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
●	16	ACER RUBRUM RED MAPLE	B & B



STREET TREE PLAN
SCALE: 1" = 100'



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 E. Stone 9-22-95
DEVELOPER: JAMES E. STONE DATE
BROWNING-FERRIS, INC.

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.

Herbert R. Plutt 9-22-95
ENGINEER: HERBERT R. PLUTT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Patricia Engle 11/7/96
U.S. SOIL CONSERVATION SERVICE DATE

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

John R. Robertson 11/7/96
HOWARD S.C.D. DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

Andrew M. Daniels 1-20-96
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Dina Sammanji 2/2/96
CHIEF, DIVISION AND LAND DEVELOPMENT AND RESEARCH DATE
Robert Williams 2/1/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Date	No	Revision Description

OWNER/DEVELOPER
BROWNING-FERRIS, INC.
C/O JAMES E. STONE
7521 CEMETERY LANE
ELKRIDGE, MARYLAND 21227
(410) 799-7822

TAX MAP No. 43
PARCEL No. 599 & 624
ELECTION DIST. 1

9-22-95
Date

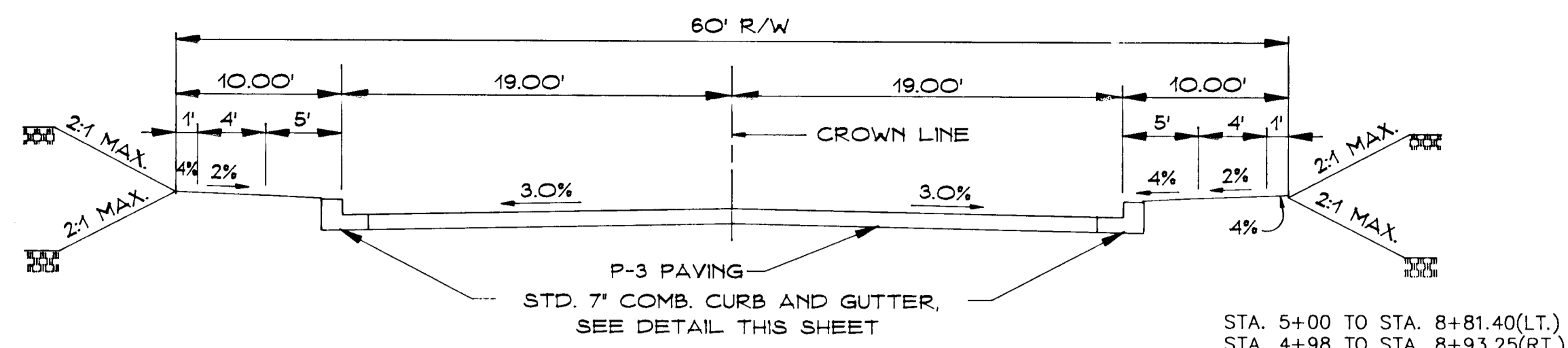
Herbert R. Plutt
HERBERT R. PLUTT
Professional Engr. No. 5407

AREA
RELOCATED CEMETERY LANE AT
U.S. ROUTE 1

TITLE
GRADING, SEDIMENT CONTROL
AND STREET TREE PLAN

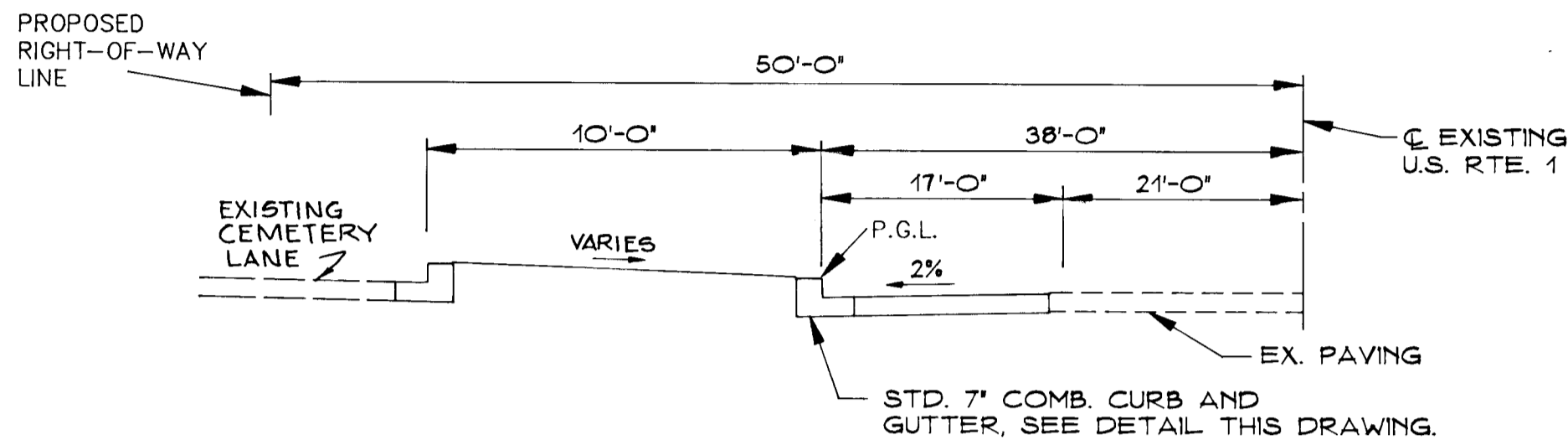
Des By	E.M.P.	Scale	1" = 50'	Proj No	CEMGRSCLWG 95-0050
Dim By	D.R.B.	Date	DEC. 1995	DRAWING NO	
Chk By	H.R.P.	Approved		4 OF 6	

F95-112



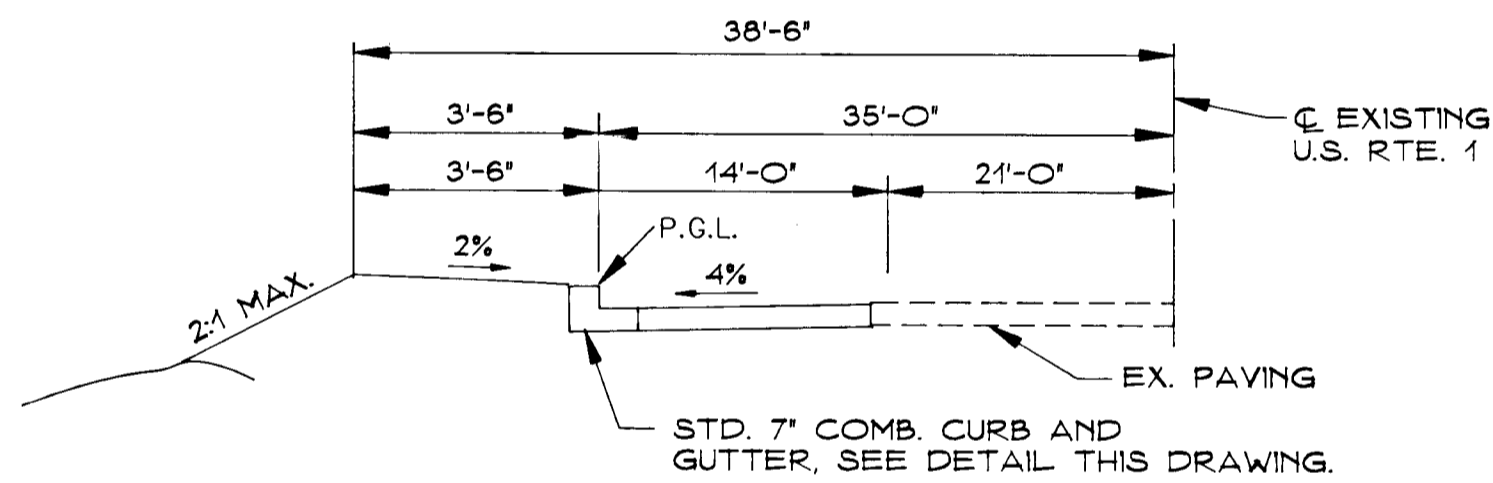
TYPICAL SECTION RELOCATED CEMETERY LANE
NOT TO SCALE

STA. 5+00 TO STA. 8+81.40(L.T.)
STA. 4+98 TO STA. 8+93.25(R.T.)
CLASSIFICATION-LOCAL STREET
ZONING-COMMERCIAL
DESIGN SPEED-30 M.P.H.



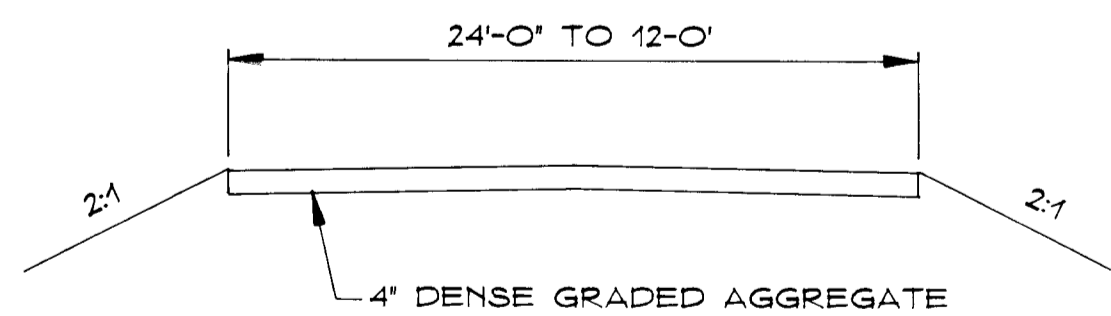
TYPICAL SECTION US. RTE. 1
NOT TO SCALE

STA. 231+50
CLASSIFICATION-INTERMEDIATE ARTERIAL
DESIGN SPEED-50 M.P.H.
ZONING COMMERCIAL



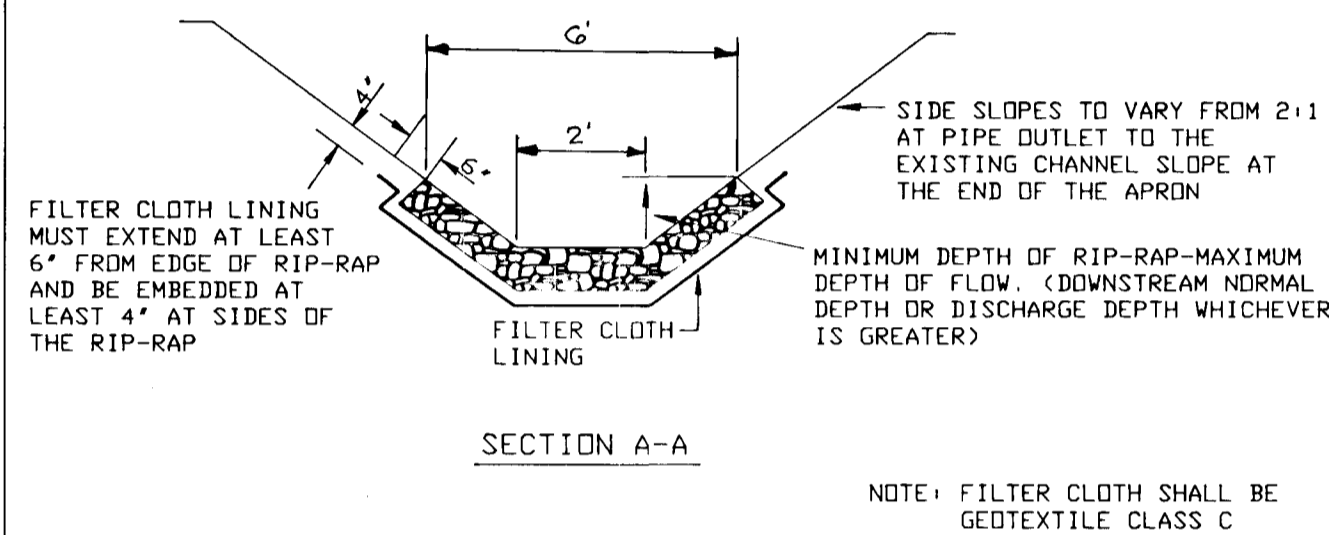
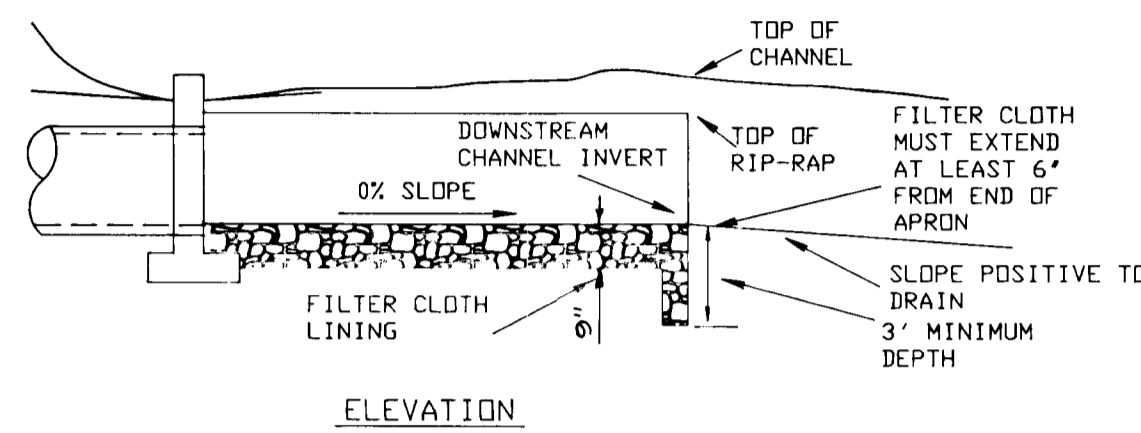
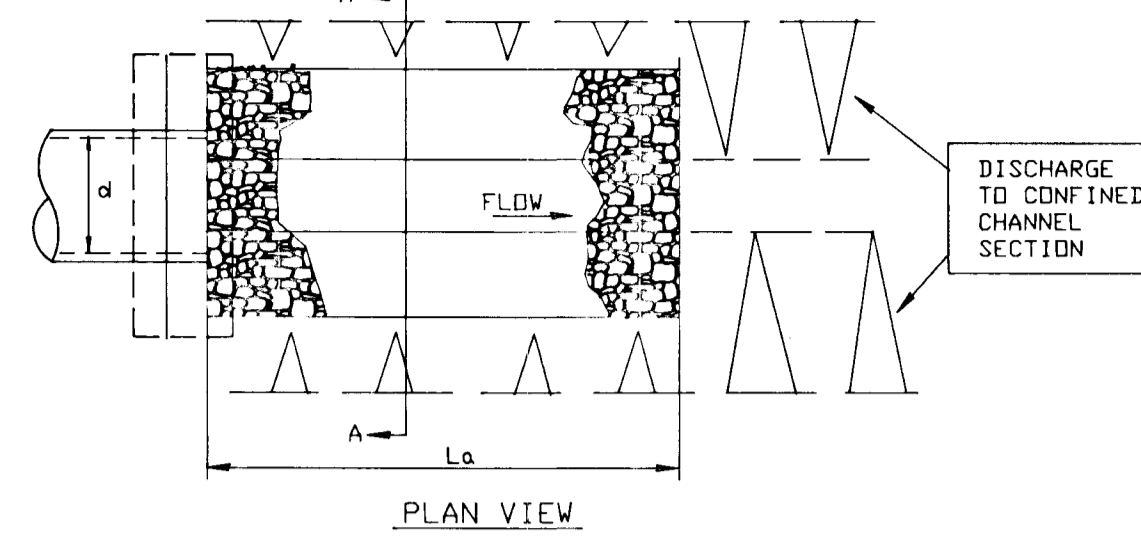
TYPICAL SECTION US. RTE. 1
NOT TO SCALE

STA. 224+50 TO STA. 229+
CLASSIFICATION-INTERMEDIATE ARTERIAL
DESIGN SPEED-50 M.P.H.
ZONING-COMMERCIAL



TYPICAL SECTION
NOT TO SCALE
ENTRANCE ROAD TO VESTRY

DETAIL 26 - ROCK OUTLET PROTECTION II



U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-18-9 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ROCK OUTLET PROTECTION II

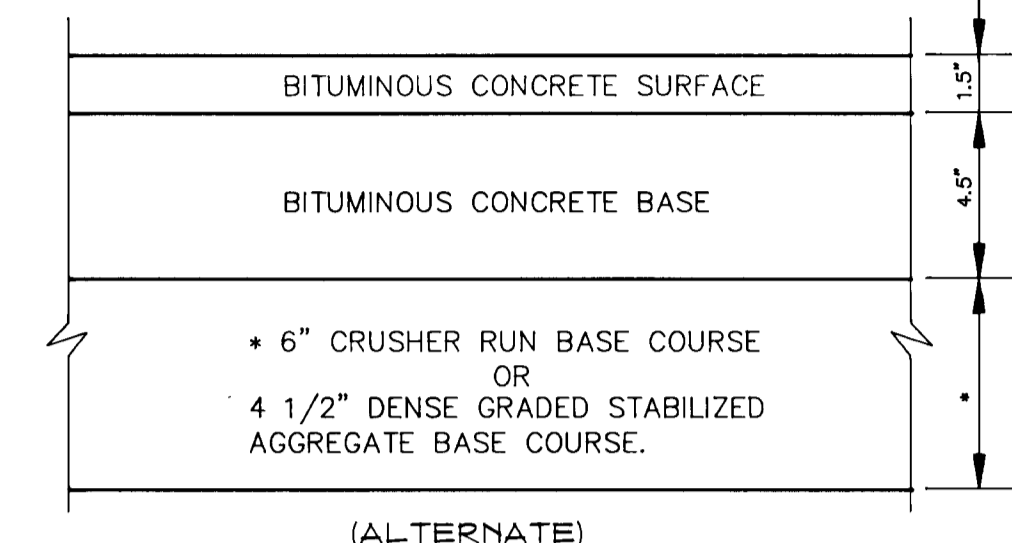
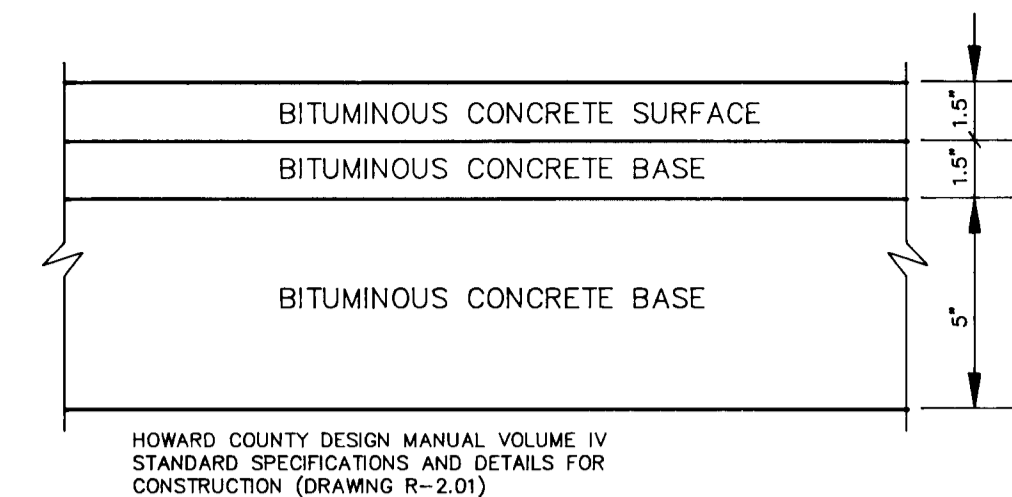
Construction Specifications

- The subgrade for the filter, rip-rap, or gabion shall be prepared to the required lines and grades. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
- The rock or gravel shall conform to the specified grading limits when installed respectively in the rip-rap or filter.
- Geotextile shall be protected from punching, cutting, or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of geotextile over the damaged part or by completely replacing the geotextile. All overlaps whether for repairs or for joining two pieces of geotextile shall be a minimum of one foot.
- Stone for the rip-rap or gabion outlets may be placed by equipment. They shall be constructed to the full course thickness in one operation and in such a manner as to avoid displacement of underlying materials. The stone for rip-rap or gabion outlets shall be delivered and placed in a manner that will ensure that it is reasonably homogeneous with the smaller stones and spalls filling the voids between the larger stones. Rip-rap shall be placed in a manner to prevent damage to the filter blanket or geotextile. Hand placement will be required to the extent necessary to prevent damage to the permanent works.
- The stone shall be placed so that it blends in with the existing ground. If the stone is placed too high then the flow will be forced out of the channel and scour adjacent to the stone will occur.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-18-9A MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

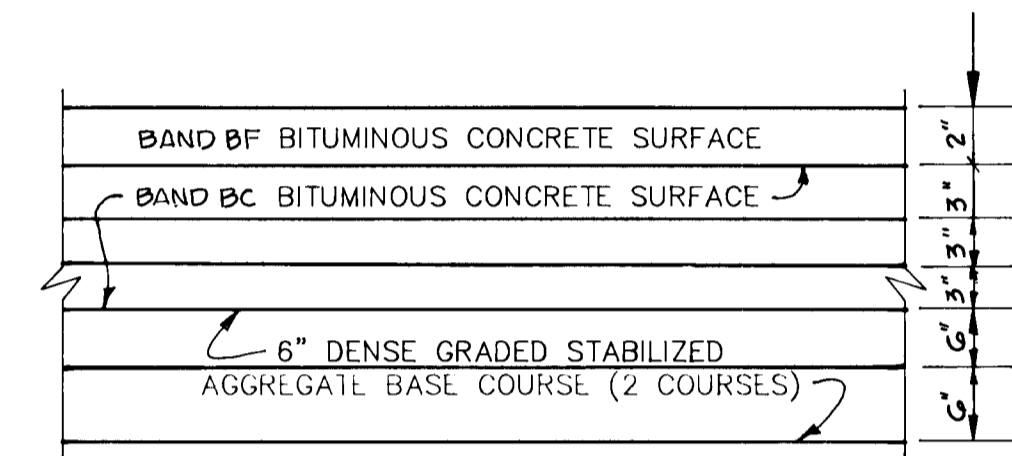
NO.	PIPE SIZE	L _a '	W'	D ₅₀	D
E-1	24"	10'	6'	6"	9"
E-2	18"	10'	6'	6"	9"

NOTE: OUTLET PROTECTION IS FOR BOTH SOIL AND EROSION CONTROL CONTROL PLAN AND FINAL STORM WATER MANAGEMENT PLAN.



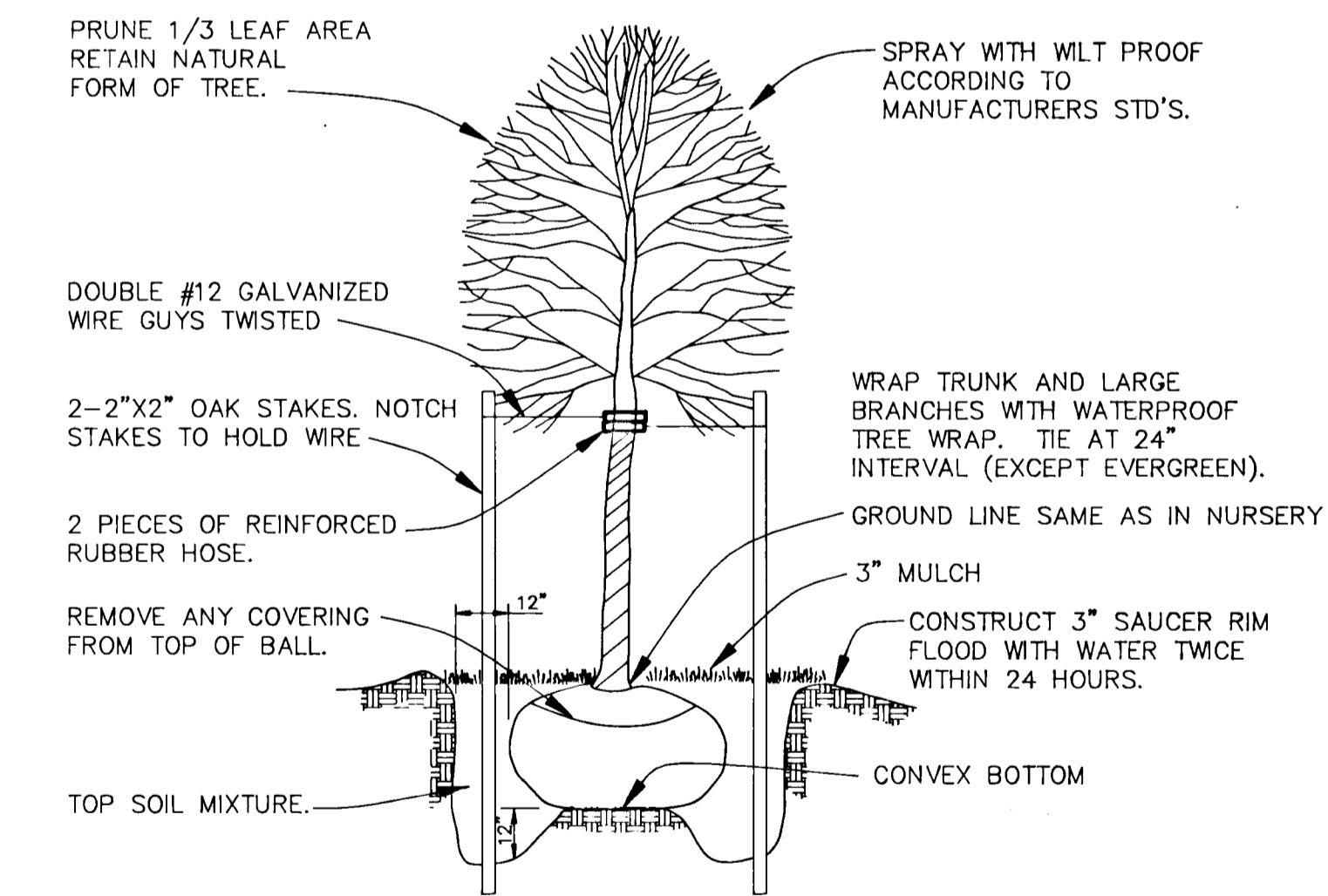
8" PAVING, P-3
NOT TO SCALE

RELOCATED CEMETERY LANE

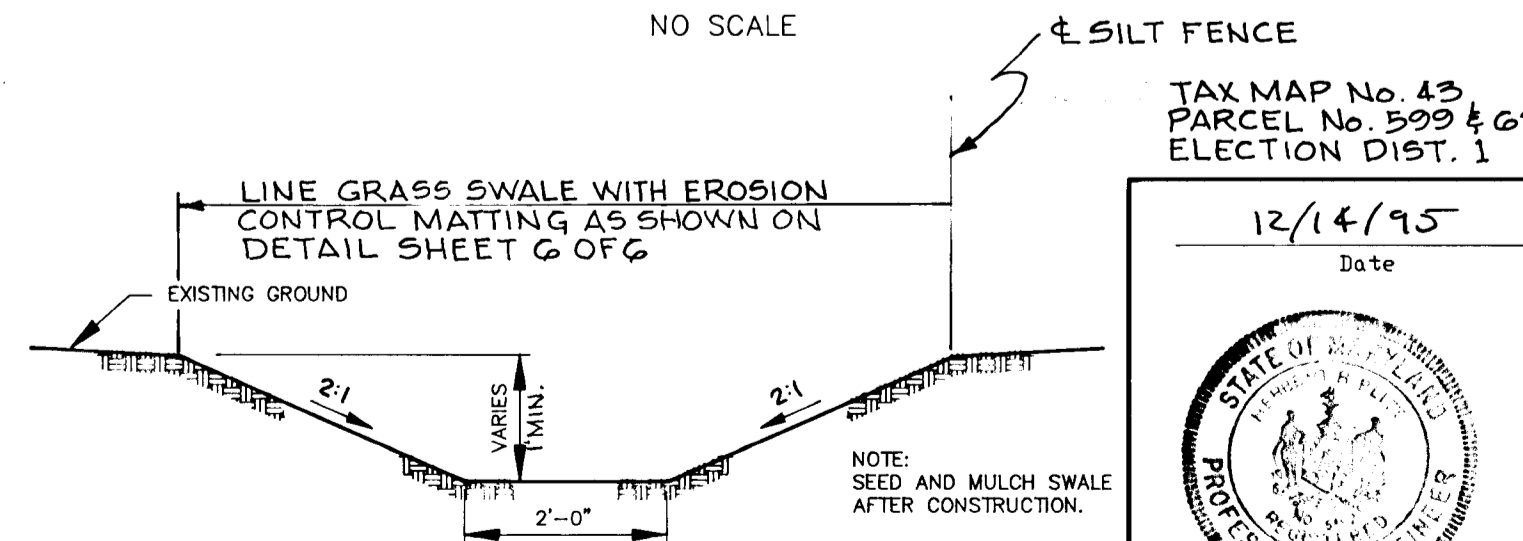


M.S.H.A. PAVING SECTION
NOT TO SCALE

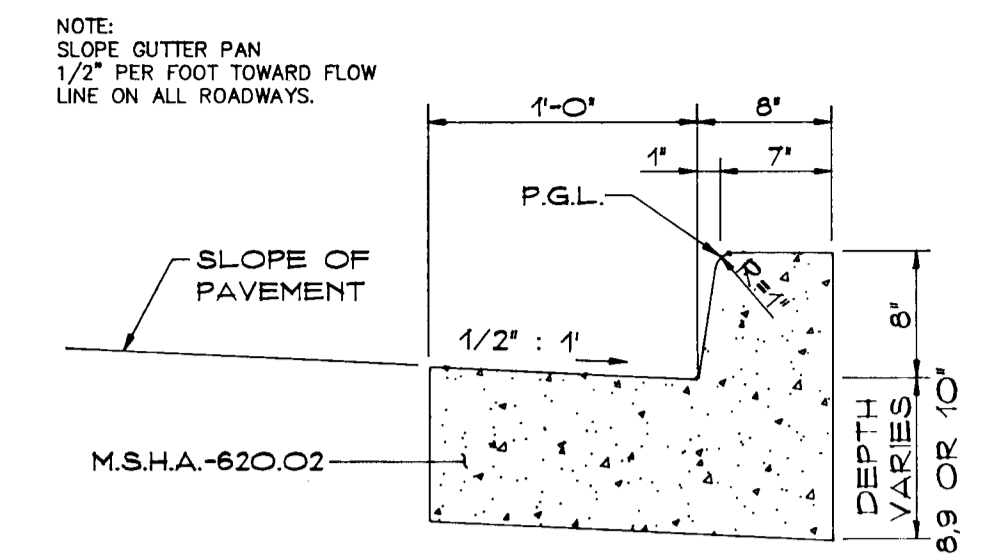
RELOCATED CEMETERY LANE



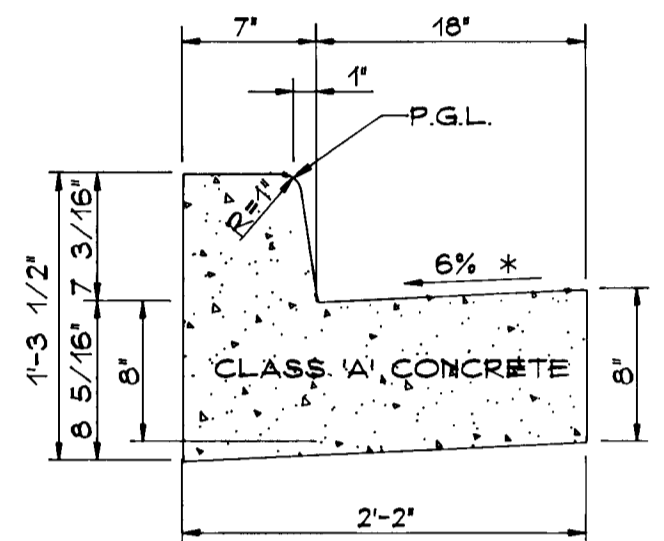
TREE PLANTING DETAIL
NO SCALE



GRASSED SWALE
NOT TO SCALE



TYPE 'A'
STANDARD COMBINATION
CURB AND GUTTER
NOT TO SCALE



STANDARD 7' COMBINATION
CURB AND GUTTER
NOT TO SCALE
RELOCATED CEMETERY LANE

NOTE: PAVEMENT SECTION SHOWN APPLIES TO INTERMEDIATE ARTERIAL (U.S. RTE. 1) AND TO STA. 9+55 RELOCATED CEMETERY LANE.

NOTE: GUTTER PAN AT THE MEDIAN EDGE OF INTERMEDIATE ARTERIALS OR THE HIGH SIDE OF SUPERELEVATED SECTIONS SHALL BE SLOPED AT THE SAME RATE AS THE PAVEMENT.

APPROVED: DEPARTMENT OF PUBLIC WORKS
Rudolf M. Danek 1-30-96
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PLANNING AND ZONING
Jim Swannomy 2/2/96
CHIEF DIVISION AND LAND DEVELOPMENT AND RESEARCH DATE
Chris Crum 2/1/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Date No Revision Description

OWNER/DEVELOPER
BROWNING-FERRIS, INC.
C/O JAMES E. STONE
7521 CEMETERY LANE
ELKDRIDGE, MARYLAND 21227
(410) 799-7822

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
817 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

AREA
RELOCATED CEMETERY LANE AT
U.S. ROUTE 1

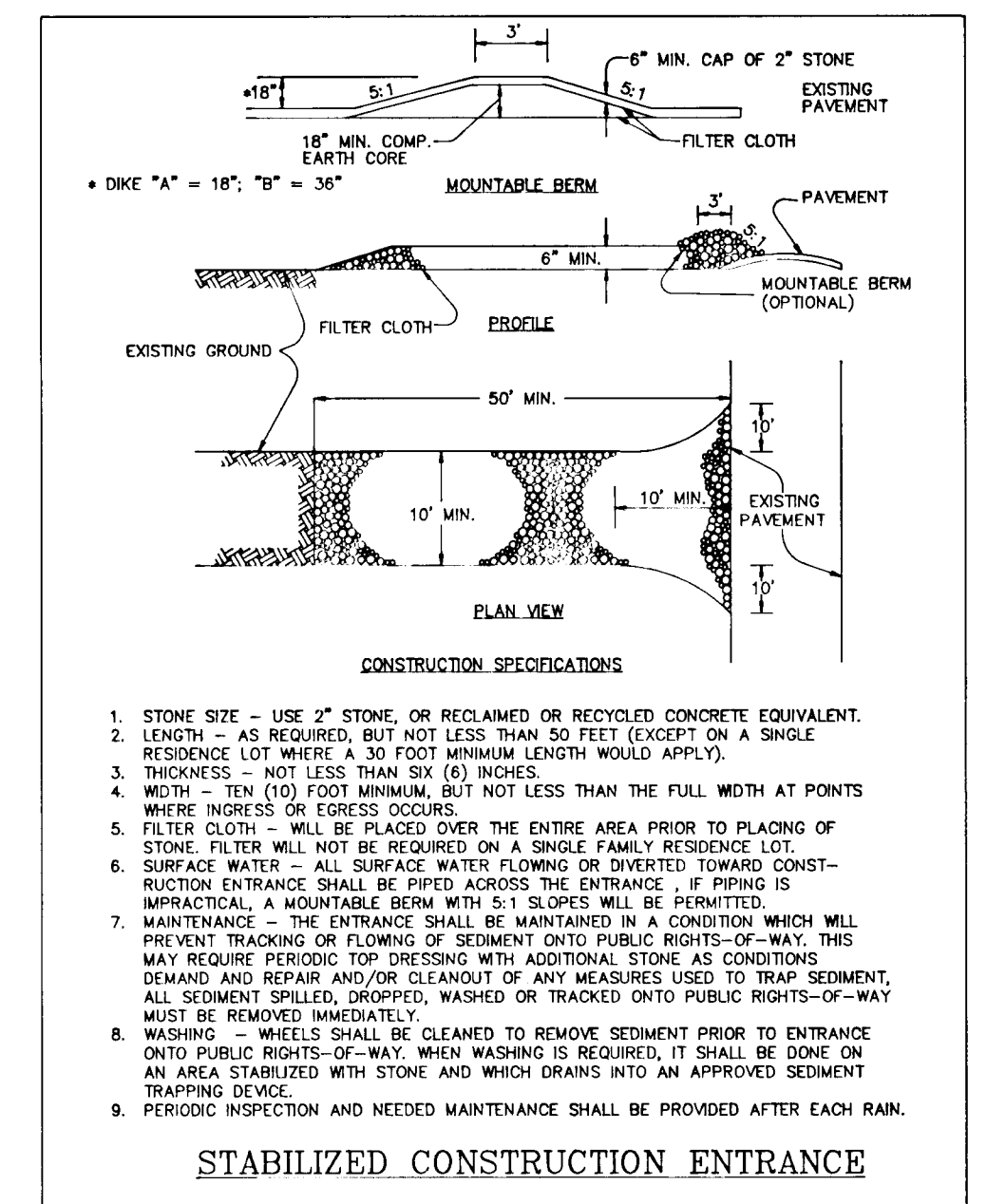
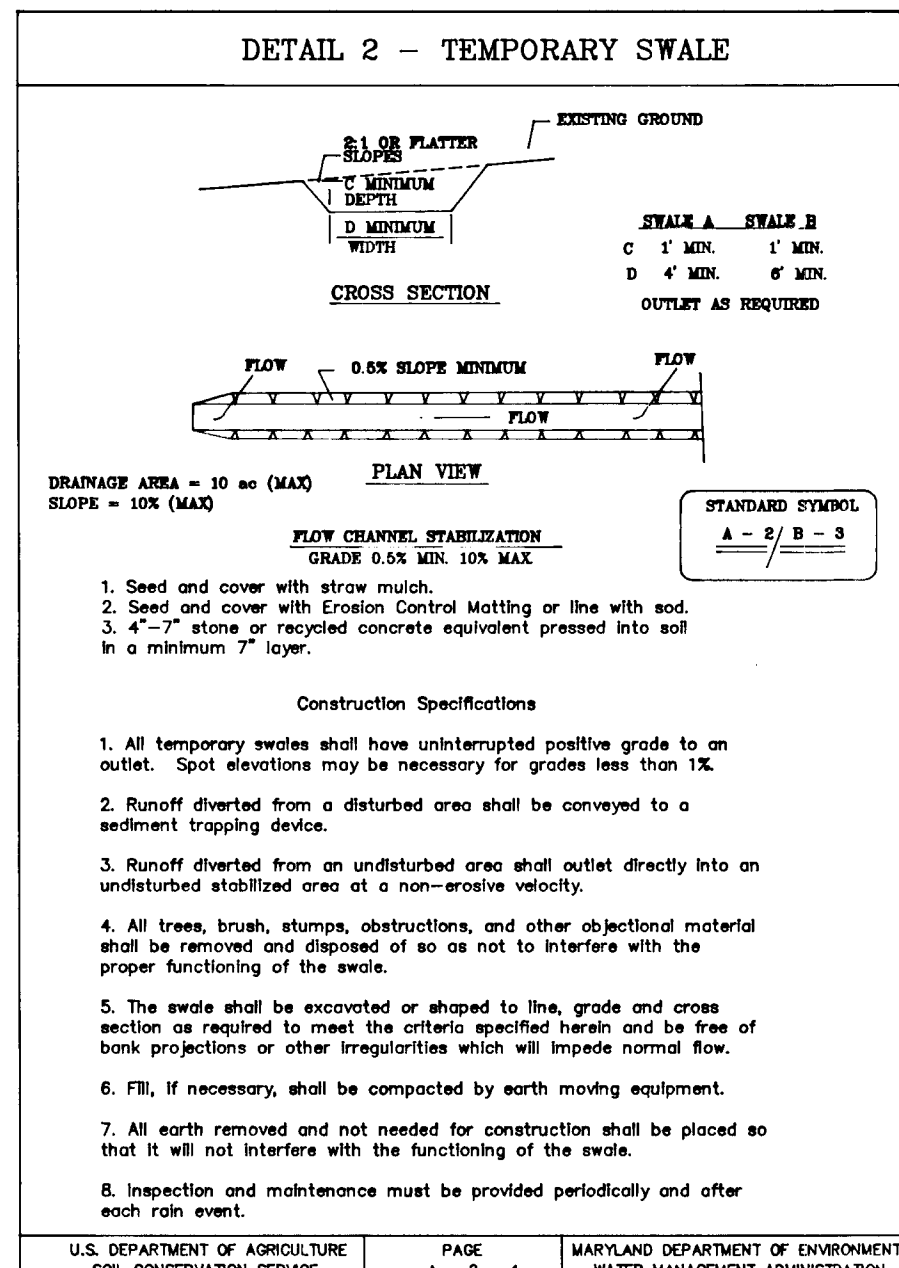
TITLE
DETAILS

Des By E.M.P. Scale 1" = 50' Proj No 95-0050
Dm By D.R.B. Date DEC. 1995 DRAWING NO
Chk By H.R.P. Approved 5 OF 6

12/14/95
Date
TAX MAP No. 43
PARCEL No. 503 & 624
ELECTION DIST. 1
Herbert R. Plitt
Professional Engr. No. 5407

1702

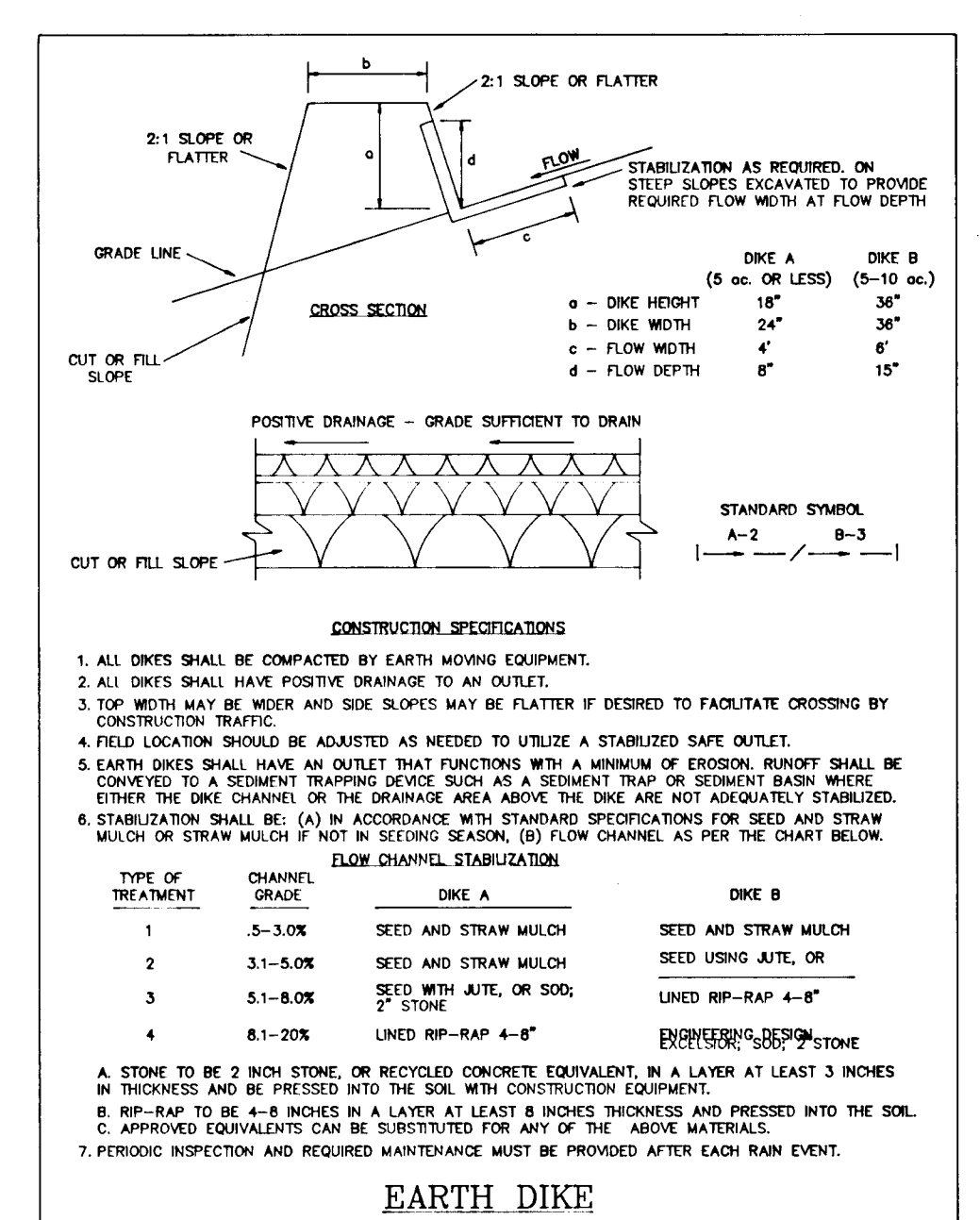
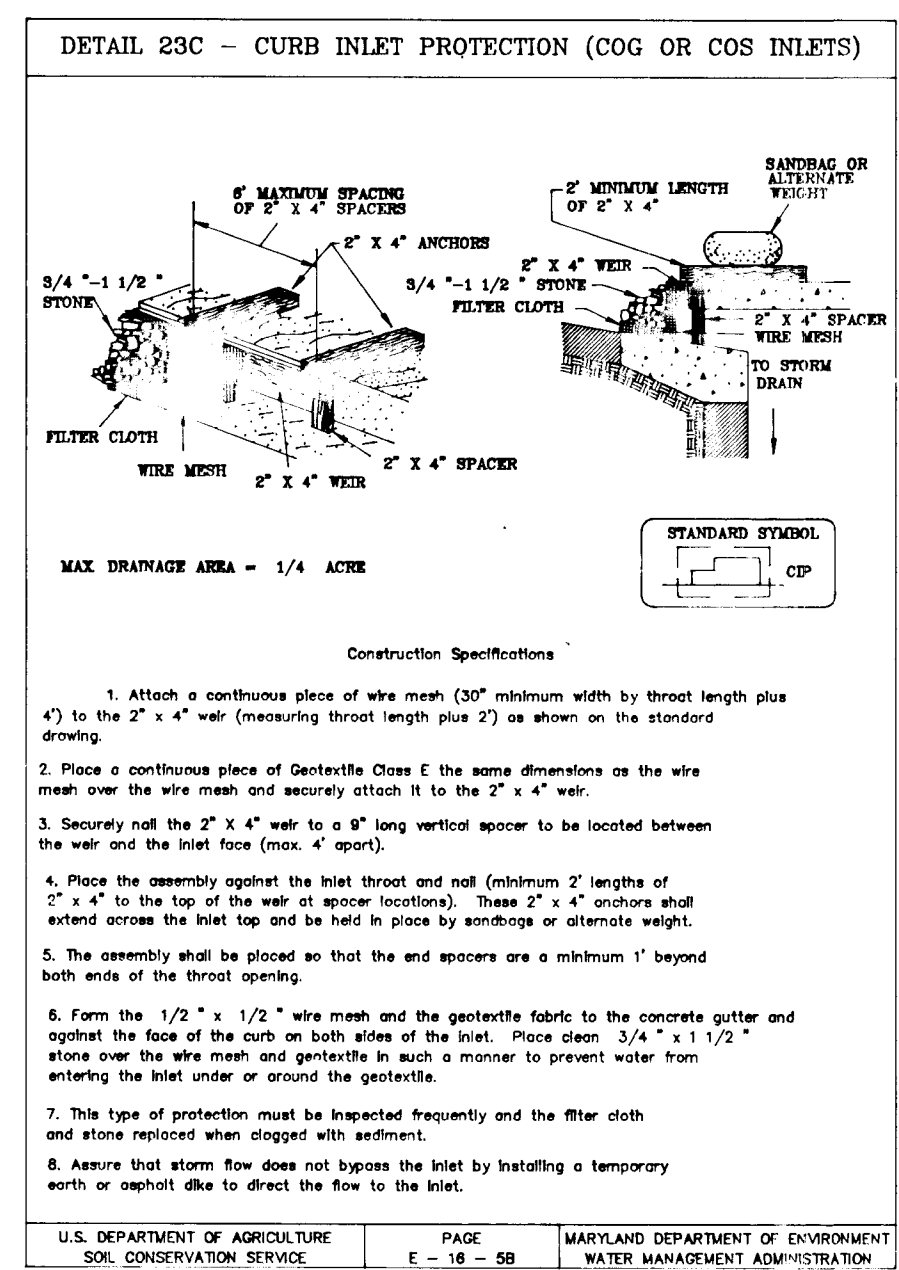
F95-112



SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (962-2437)
- 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 42 CALENDAR DAYS FOR PERMANENT SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. 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 PERIMETER 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 SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1. 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 PERMITS FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7) SITE ANALYSIS:

TOTAL AREA OF SITE	0.81 ACRES
AREA DISTURBED	2.08 ACRES
AREA TO BE ROOFED OR PAVED	2.08 ACRES
AREA TO BE VEGETATIVELY STABILIZED	1.23 ACRES
TOTAL CUT	580 CU. YDS.
TOTAL FILL	1,250 CU. YDS.
- 8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR 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 DPM 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 APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.



PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE 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 PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROJECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: APPLY PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROJECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SO2.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 216 GAL PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

BY THE DEVELOPER:
I HEREBY 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 MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

James Stone 9-22-95
DEVELOPER: JAMES E. STONE DATE
BROWNING-FERRIS, INC.

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 COUNTY SOIL CONSERVATION DISTRICT.

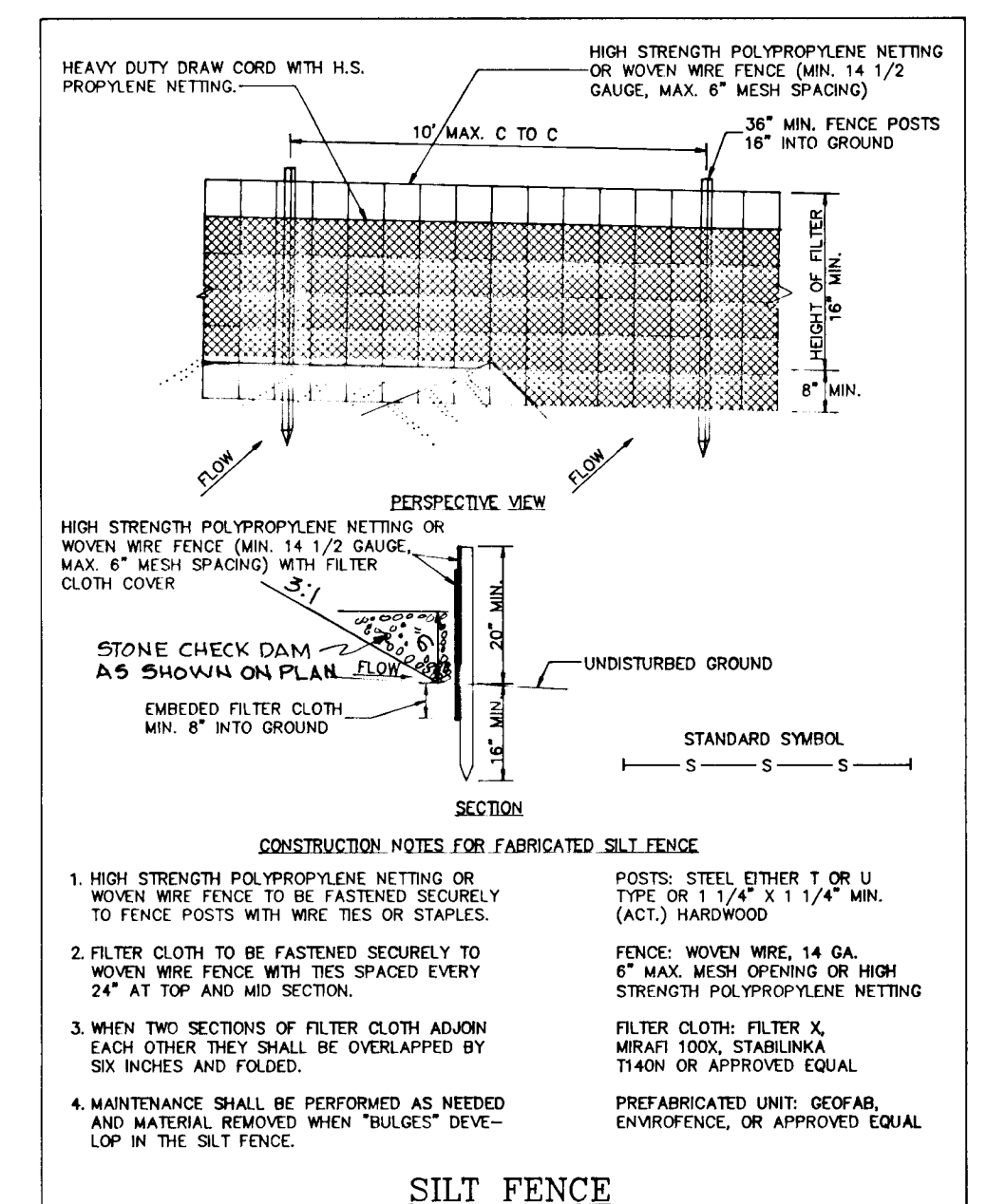
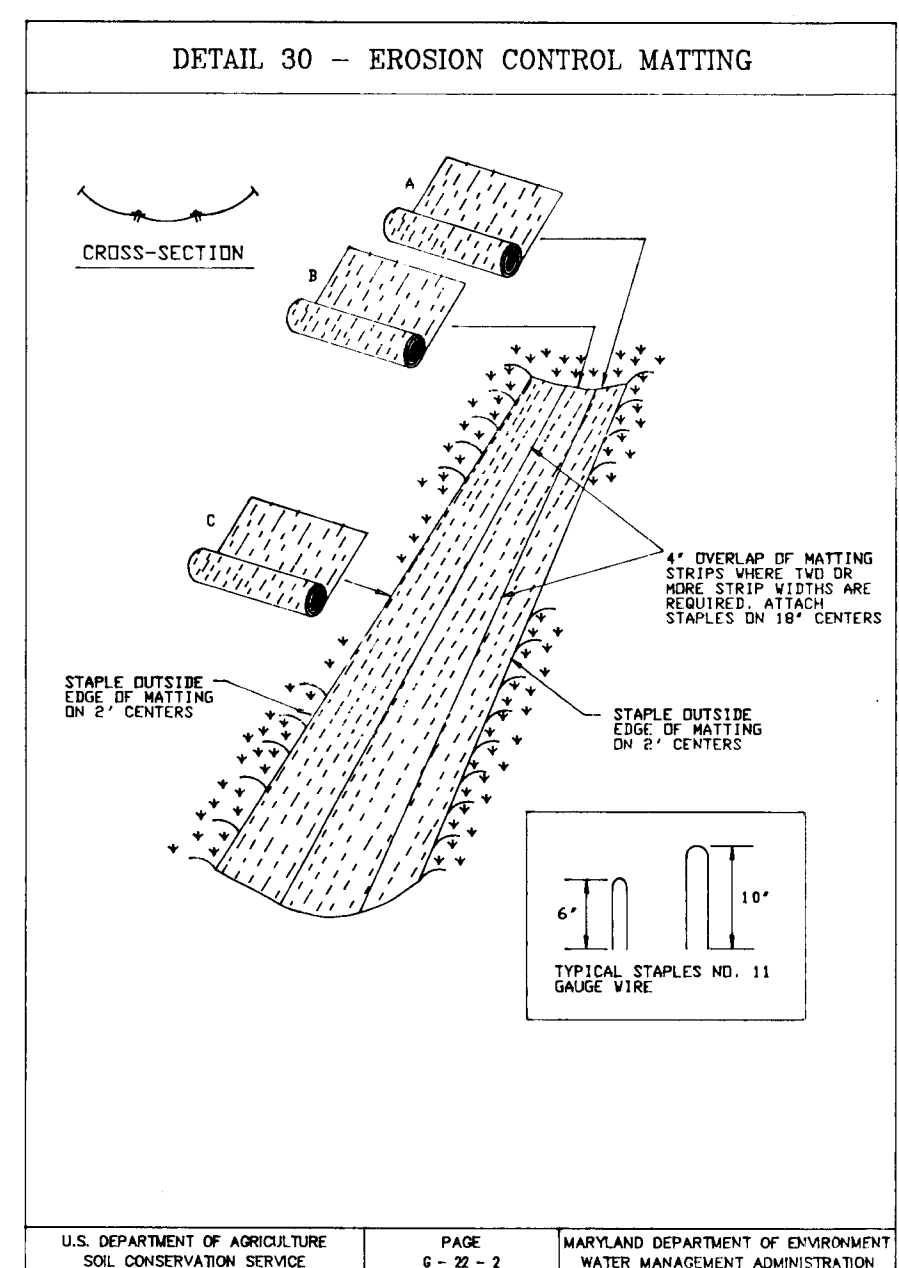
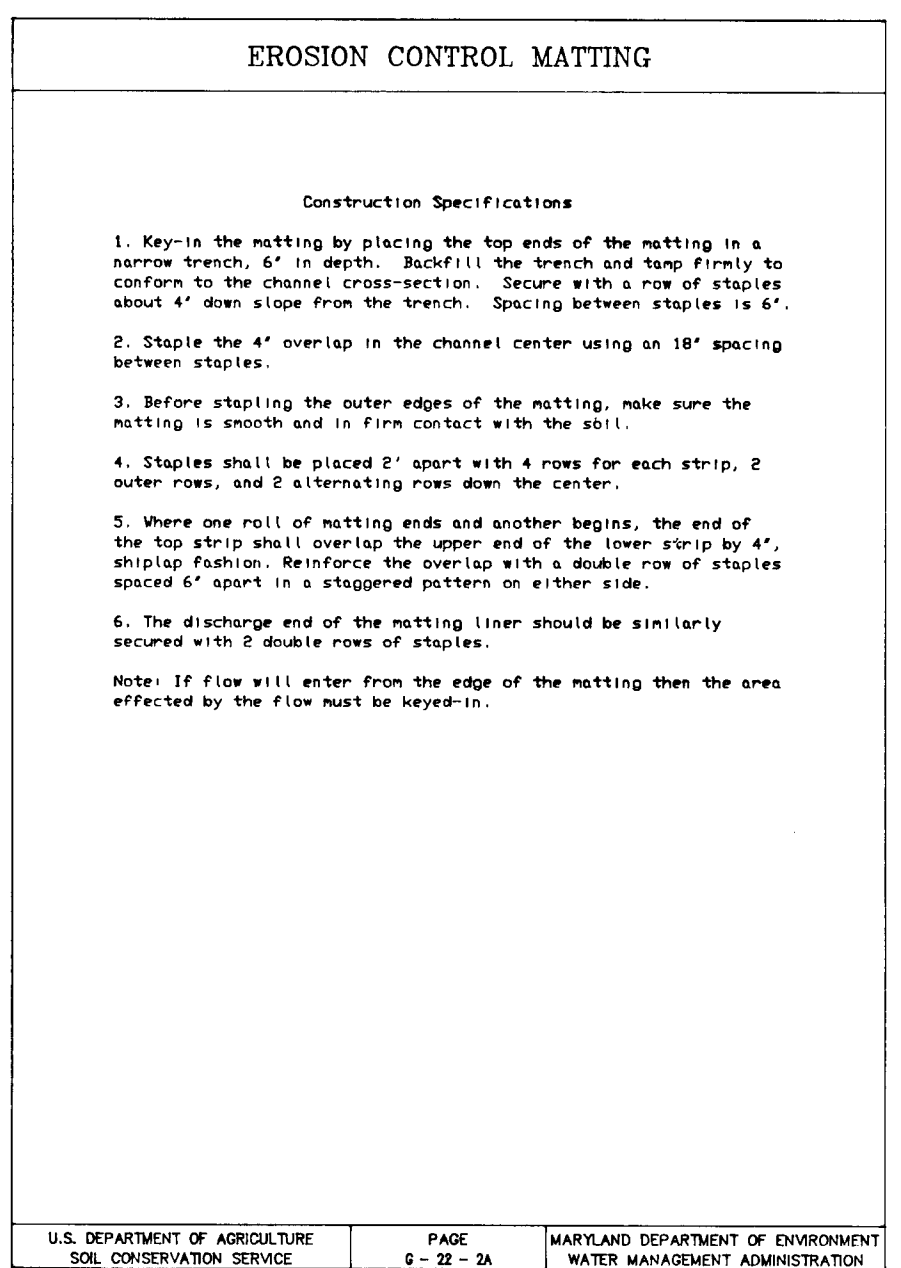
Robert R. Plitt 12/14/95
ENGINEER: HERBERT R. PLITT DATE

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

Patricia Engler 1/17/96
U.S. SOIL CONSERVATION SERVICE DATE

John R. Robertson 1/17/96
HOWARD S.C.D. DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS.
Andrew M. Douch 1-30-96
CHIEF, BUREAU OF HIGHWAYS DATE



SEQUENCE OF CONSTRUCTION

- DAY 1-2 OBTAIN A GRADING PERMIT.
- DAY 2-3 CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE).
- DAY 3-4 CLEAR AND GRUB AREA FOR AND INSTALL GRASS SWALE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- DAY 4-6 CLEAR AND GRUB AREAS FOR REMAINING SEDIMENT CONTROL DEVICES.
- DAY 6-10 INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- DAY 10-15 INSTALL PROPOSED STORM DRAIN FROM ES-1 THRU EXISTING PIPE.
- DAY 15-18 CLEAR AND GRUB REMAINDER OF SITE.
- DAY 18-25 GRADE SITE.
- DAY 25-30 INSTALL UTILITIES IE; WATER, SEWER, ETC.
- DAY 30-32 STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 32-45 COMPLETE ALL ROADWAY CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 45-48 UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE 2-2-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Aim Summerville 2/9/96
CHIEF, DIVISION AND LAND DEVELOPMENT AND RESEARCH DATE
Robert R. Plitt 2/1/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Date	No	Revision	Description

OWNER/DEVELOPER
BROWNING-FERRIS, INC.
C/O JAMES E. STONE
7521 CEMETERY LANE
ELKRIDGE, MARYLAND 21227
(410) 799-7822

PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
817 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

AREA
RELOCATED CEMETERY LANE AT U.S. ROUTE 1

TITLE
SEDIMENT CONTROL NOTES AND DETAILS

DATE: 12/14/95

TAX MAP No. 43
PARCEL No. 5994024
ELECTION DIST. 1

Robert R. Plitt
HERBERT R. PLITT
Professional Engr. No. 5407

Des By: E.M.P. Scale: AS SHOWN Proj No: MD-95-0050
Dwn By: D.R.B. Date: DEC. 1995 DRAWING NO:
Chk By: H.R.P. Approved: 6 OF 6

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