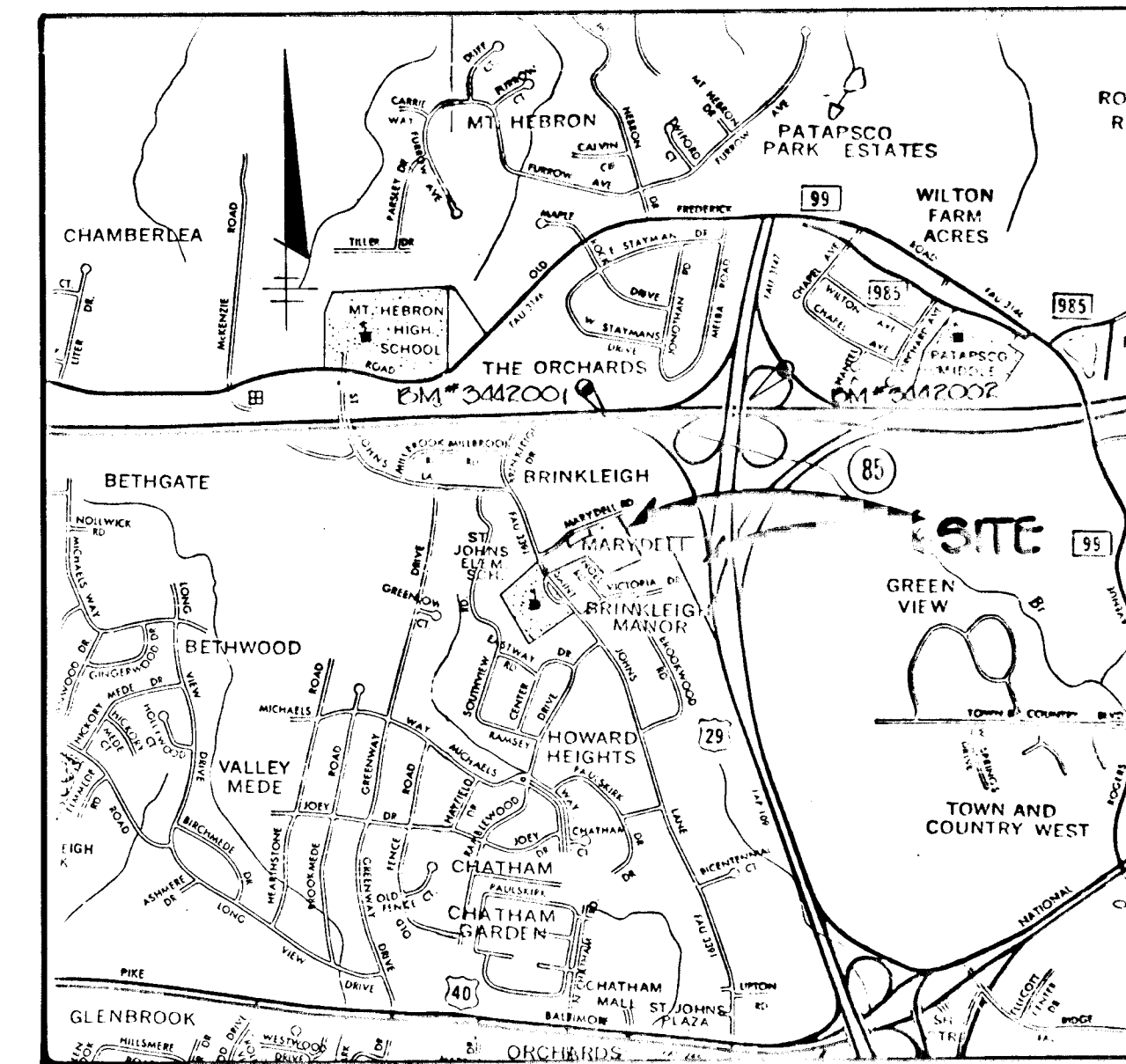


| SHEET INDEX | |
|-------------|--|
| NO. | DESCRIPTION |
| 1 | TITLE SHEET |
| 2 | PLAN OF ST JOHN'S LANE, MARYDELL ROAD, BROOKWOOD ROAD AND VICTORIA DRIVE |
| 3 | PLAN OF VICTORIA DRIVE |
| 4 | ROAD PROFILES OF MARYDELL ROAD AND ST JOHN'S LANE |
| 5 | PROFILES OF BROOKWOOD ROAD AND VICTORIA DRIVE |
| 6 | STORM DRAIN PROFILES AND DRAINAGE AREA MAP |
| 7 | GRADING AND SEDIMENT CONTROL PLAN |
| 8 | SWM PLAN, GRADING AND SEDIMENT CONTROL PLAN |
| 9 | SWM NOTES AND DETAILS |
| 10 | STORM DRAIN PROFILES AND DETAILS |
| 11 | SEDIMENT CONTROL NOTES AND DETAILS |
| 12 | STREET TREE PLAN |
| 13 | STREET TREE PLAN |

ROADWAY, STORM DRAIN & STORM WATER MANAGEMENT BOONE MEADOWS SECTION 1, AREA 1 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND



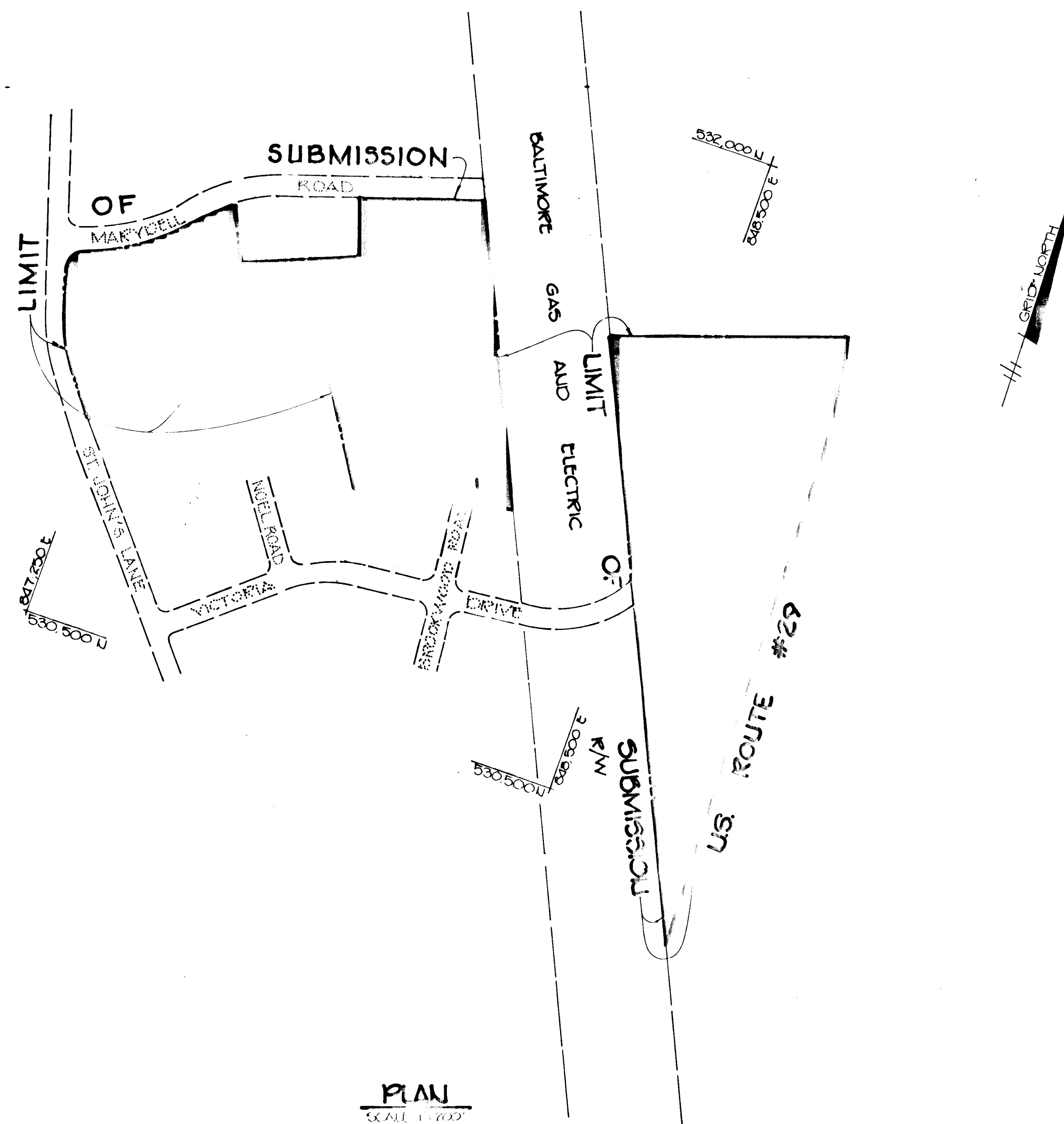
VICINITY MAP
SCALE 1"=2000'

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 | 992-2366 |
| HOWARD COUNTY CONSTRUCTION INSPECTION SURVEY DIVISION | 992-2417/2418 |

- 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 1978 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 MINOR COLLECTORS DESIGNED FOR 50 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.
- SUBJECT PROPERTY ZONED R-SC PER 8-2-85 COMPREHENSIVE ZONING PLAN.
TOPO WITHIN ROAD RIGHTS OF WAY TAKEN FROM FIELD RUN SURVEY BY TRACY, SCHULTE AND ASSOCIATES JANUARY 1987 TOPO OUTSIDE ROAD RIGHTS OF WAY TAKEN FROM AERIAL TOPO



PLAN
SCALE 1"=100'

BENCH MARK DESCRIPTION

- HOWARD COUNTY BM #242001 ELEV 460.363
CONCRETE MONUMENT ON ABOVE SURFACE 30' NORTHWEST OF 4' OF WEST TOWER OF POWER LINES
 - HOWARD COUNTY BM #242002 ELEV 433.821
3/8" IRON 1" O.D. BELOW SURFACE IN MEDIAN OF 170' ALG. WEST OF POWER LINE ON EAST TOWER AND 10' SOUTH OF WEST BOUND LANE
- HORIZONTAL & VERTICAL CONTROL BASED ON

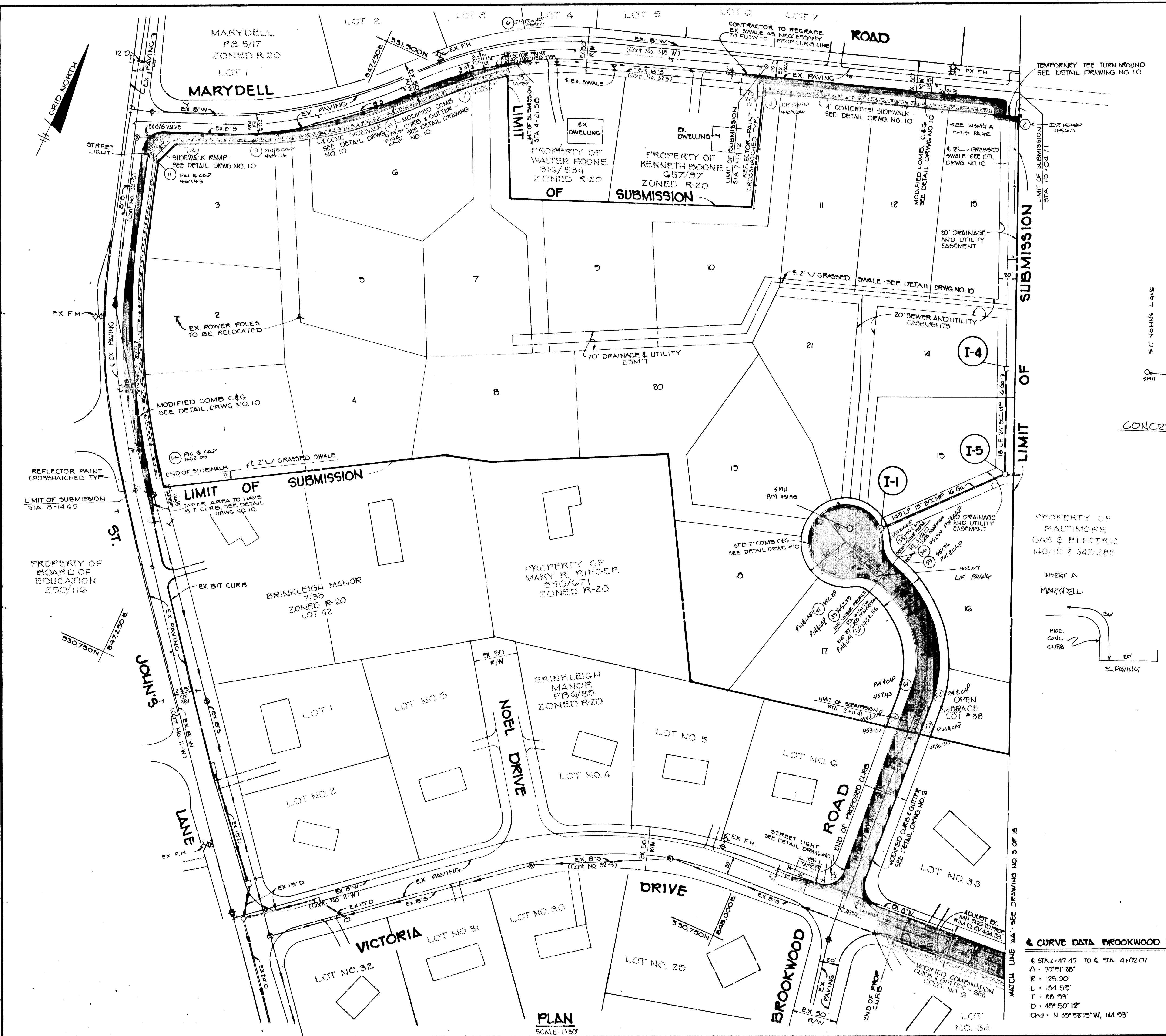
| | |
|---|---------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>William F. ...</i> | DATE |
| CHIEF, LAND DEVELOPMENT DIVISION | 2/24/88 |
| APPROVED: <i>Francis W. ...</i> | DATE |
| CHIEF, BUREAU OF HIGHWAYS | 2-25-88 |
| APPROVED: <i>...</i> | DATE |
| CHIEF, BUREAU OF ENGINEERING | 3/14/88 |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>...</i> | DATE |
| CHIEF, BUREAU OF COMMUNITY PLANNING AND LAND DEVELOPMENT | |

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |

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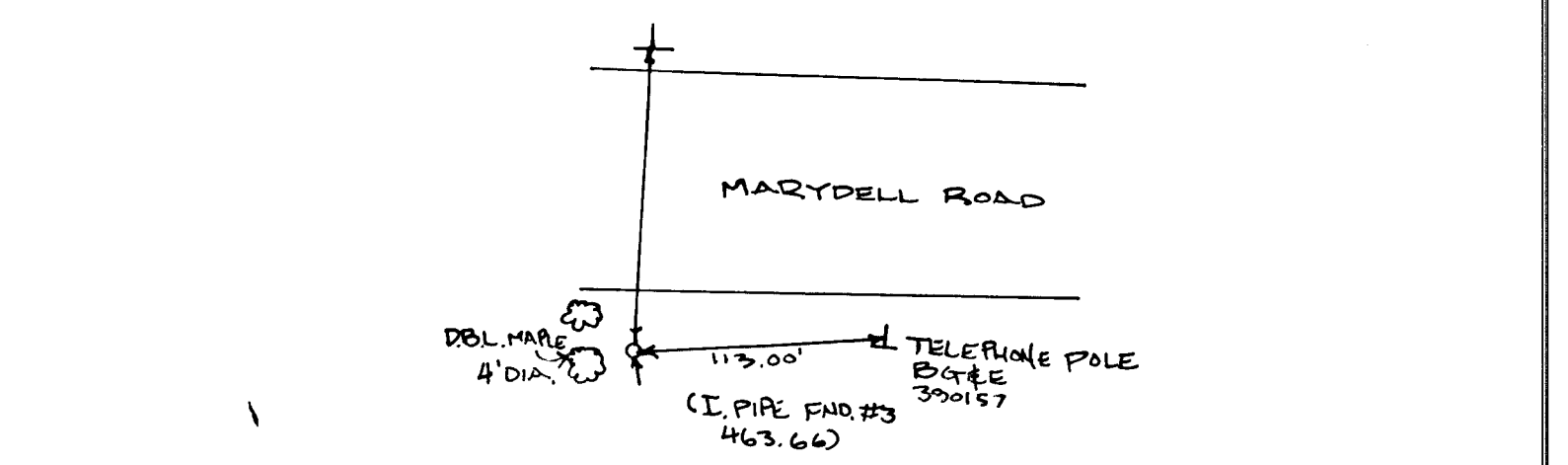
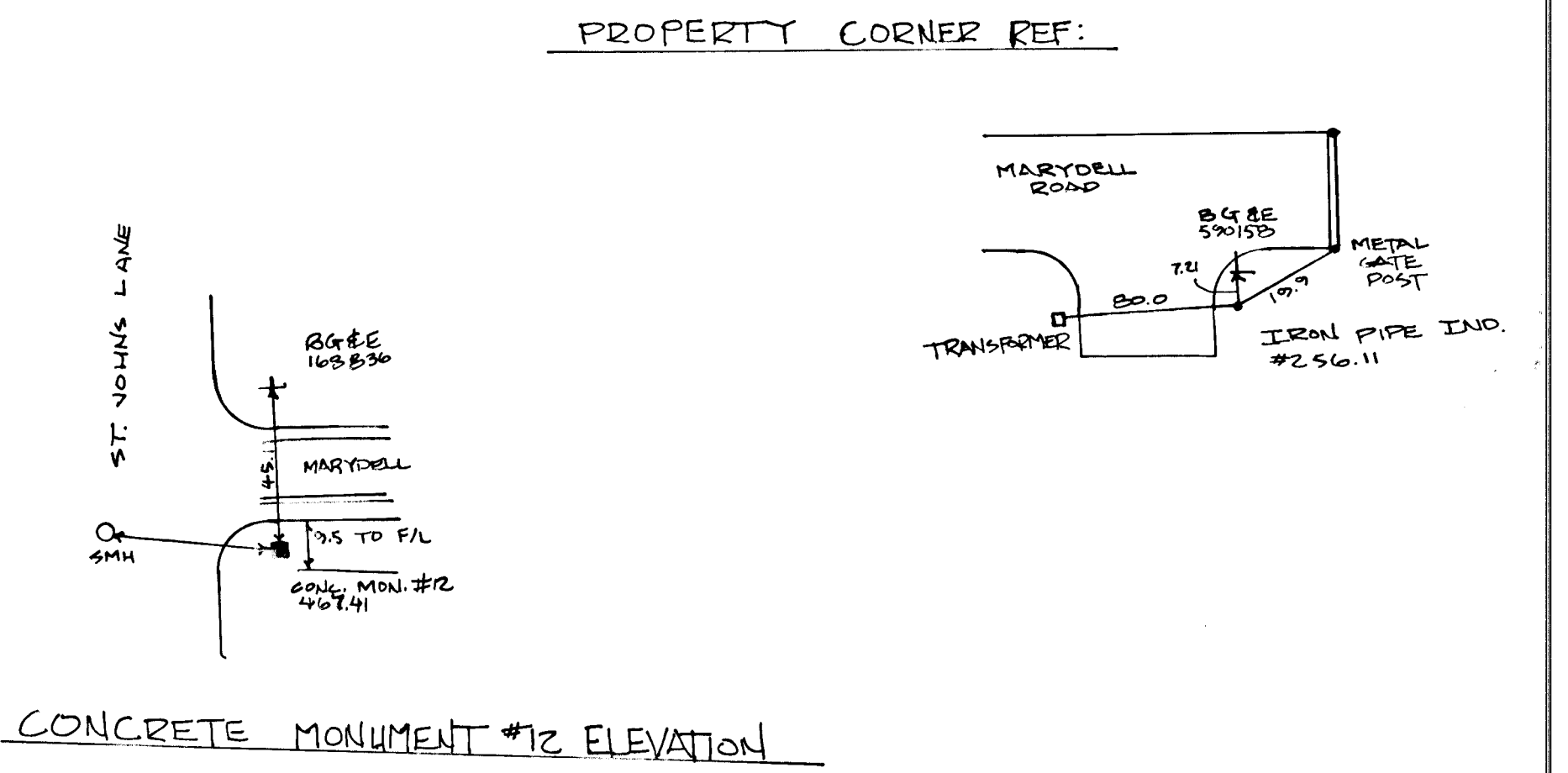
| | |
|--|---|
| OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | PROJECT BOONE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | LOCATION TAX MAP NO. 17 PARCEL 119 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE TITLE SHEET | DATE AUG. 28, 1987 |
| DES. BY R.W. | PROJECT NO. 12-8751 |
| DATE AUG. 28, 1987 | DRAWN BY ... |



STRUCTURE SCHEDULE

| NO. | TYPE | LOCATION | INV IN | INV OUT | TOP ELEV | REMARKS |
|-----|--------------------------|--|--------|---------|----------|----------------------|
| I-1 | A-5 | 2.67' LP STA 4+2.53 VICTORIA DRIVE | 440.25 | 441.20 | 444.74 | HO CO STD SD 4.01 |
| I-2 | A-5 w/ DEFLECTORS | 16.67' LT & STA 6+35 VICTORIA DRIVE | 451.10 | 450.25 | 454.75 | HO CO STD SD 4.01 |
| I-3 | A-5 w/ DEFLECTORS | 16.67' RT & STA 6+35 VICTORIA DRIVE | --- | 450.25 | 454.75 | HO CO STD SD 4.01 |
| I-4 | X-INLET | SEE PLAN | --- | 450.25 | 454.75 | HO CO STD SD 4.01 |
| I-5 | D-INLET | SEE PLAN 438.26 | 439.07 | 437.25 | 445.50 | HO CO STD SD 4.11 |
| I-6 | A-10 | 2.67' LP STA BROOKWOOD ROAD | 439.32 | 447.35 | 450.24 | HO CO STD SD 4.02 |
| I-7 | STD MANHOLE | SEE PLAN | 441.03 | 440.00 | 445.75 | HO CO STD SD 4.01 |
| E-1 | 15" FETAL END SECTION | SEE PLAN | 433.40 | 433.40 | 435.60 | HO CO STD SD 5.01 |
| E-2 | 30" FETAL END SECTION | SEE PLAN | 431.17 | 431.17 | 435.00 | HO CO STD SD 5.01 |
| M-2 | STD MANHOLE | SEE PLAN | 436.12 | 435.07 | 447.12 | HO CO STD SD 5.01 |

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



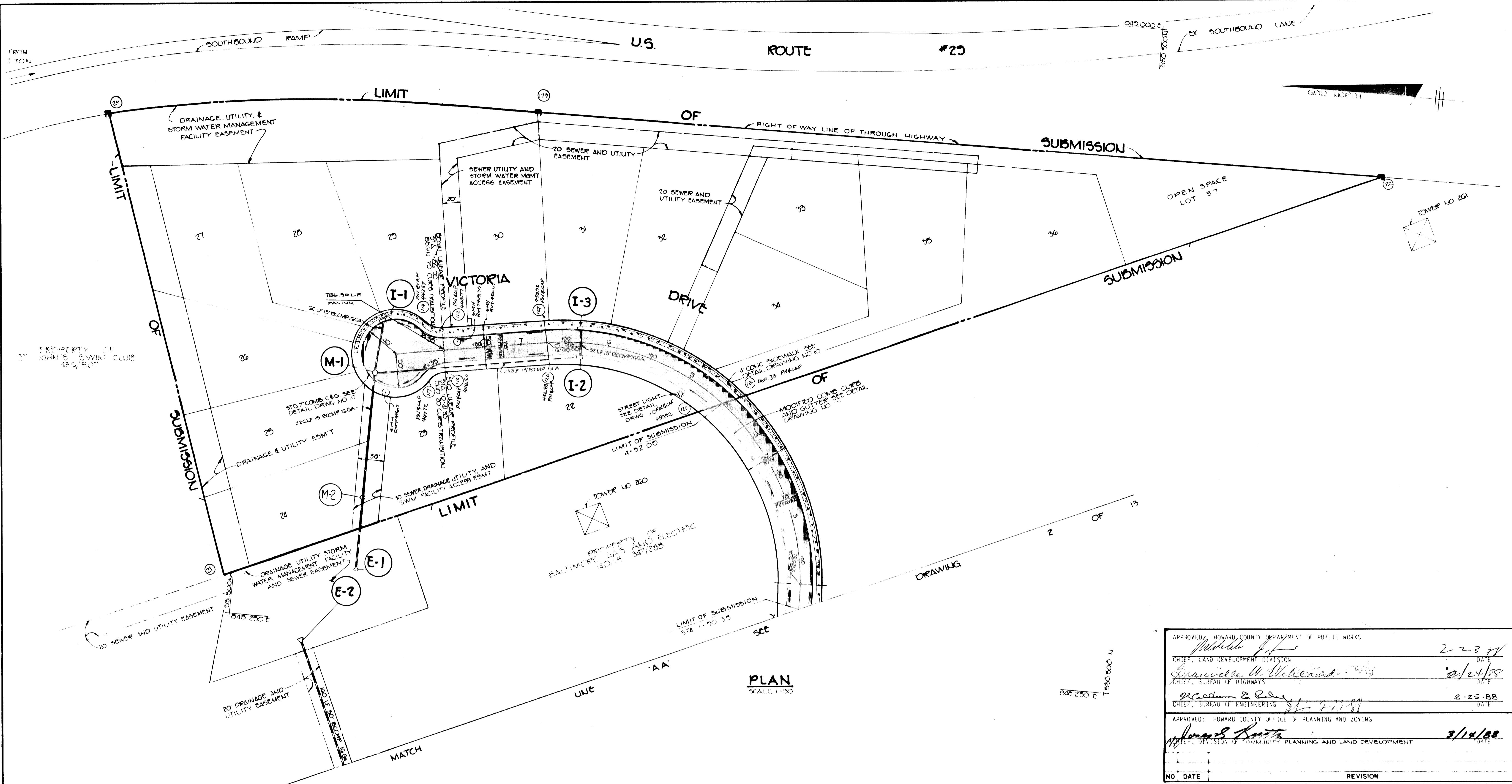
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE: 2-23-88
 CHIEF, LAND DEVELOPMENT DIVISION
Barbara M. Wolcott
 DATE: 2/24/88
 CHIEF, BUREAU OF HIGHWAYS
 DATE: 2-25-88
 CHIEF, BUREAU OF ENGINEERING
 DATE: 3/14/88
 APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 DATE: 3/14/88

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| | | | |
|-----------|---|----------|--|
| OWNER | SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | PROJECT | BOONE MEADOWS SECTION 11, AREA 1 |
| DEVELOPER | SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | LOCATION | TAX MAP NO. 17 PARCEL 116 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| DES. RJW | DRN JCA/KMN | TITLE | PLAN OF ST. JOHN'S LAKE MARYDELL ROAD, BROOKWOOD ROAD AND VICTORIA DRIVE |
| | | DATE | AUG 28 1987 DEC 2 1987 |
| | | SCALE | 1"=50' |
| | | DRAWING | 2 OF 13 |

6 CURVE DATA BROOKWOOD DR.
 Δ STA 2+47.47 TO 4+02.07
 Δ = 70°51'26"
 R = 125.00
 L = 154.50'
 T = 68.93'
 D = 45°50'12"
 Chd = N 39°53'15" W, 144.93'

PLAN
 SCALE: 1"=50'



PROPERTY OF
ST. JOHN'S SWIM CLUB
486/807

PROPERTY OF
BALTIMORE GAS AND ELECTRIC
4016 477288

PLAN
SCALE 1"=50'

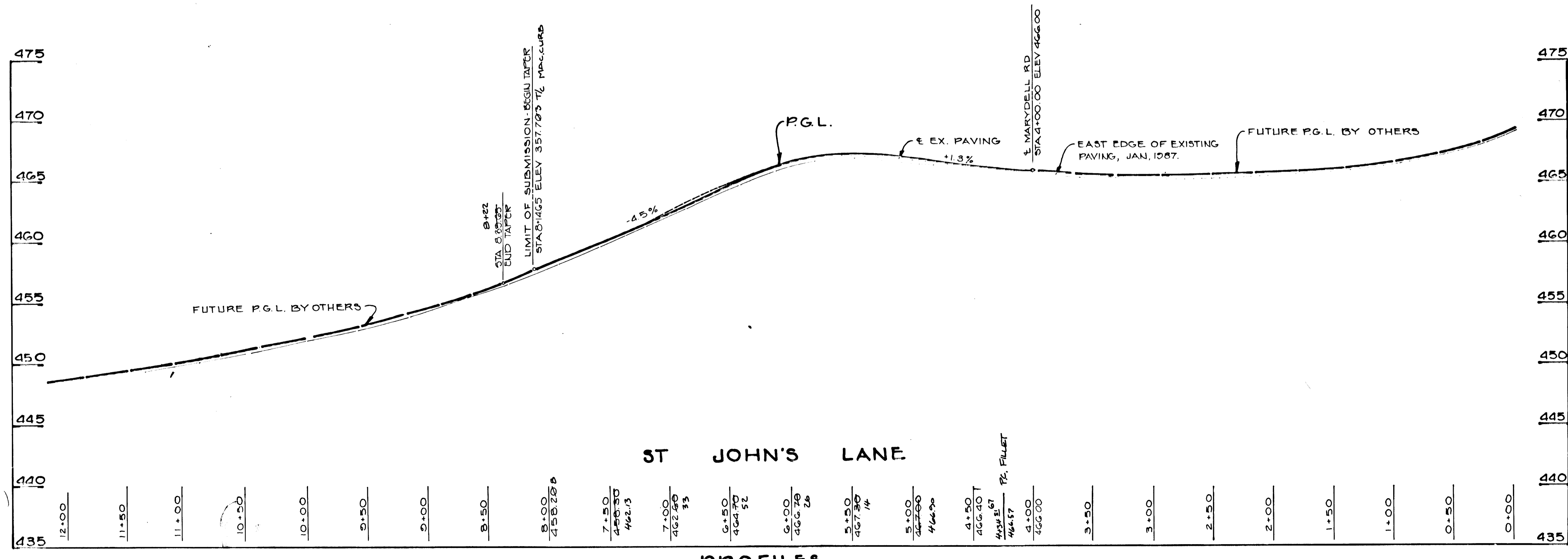
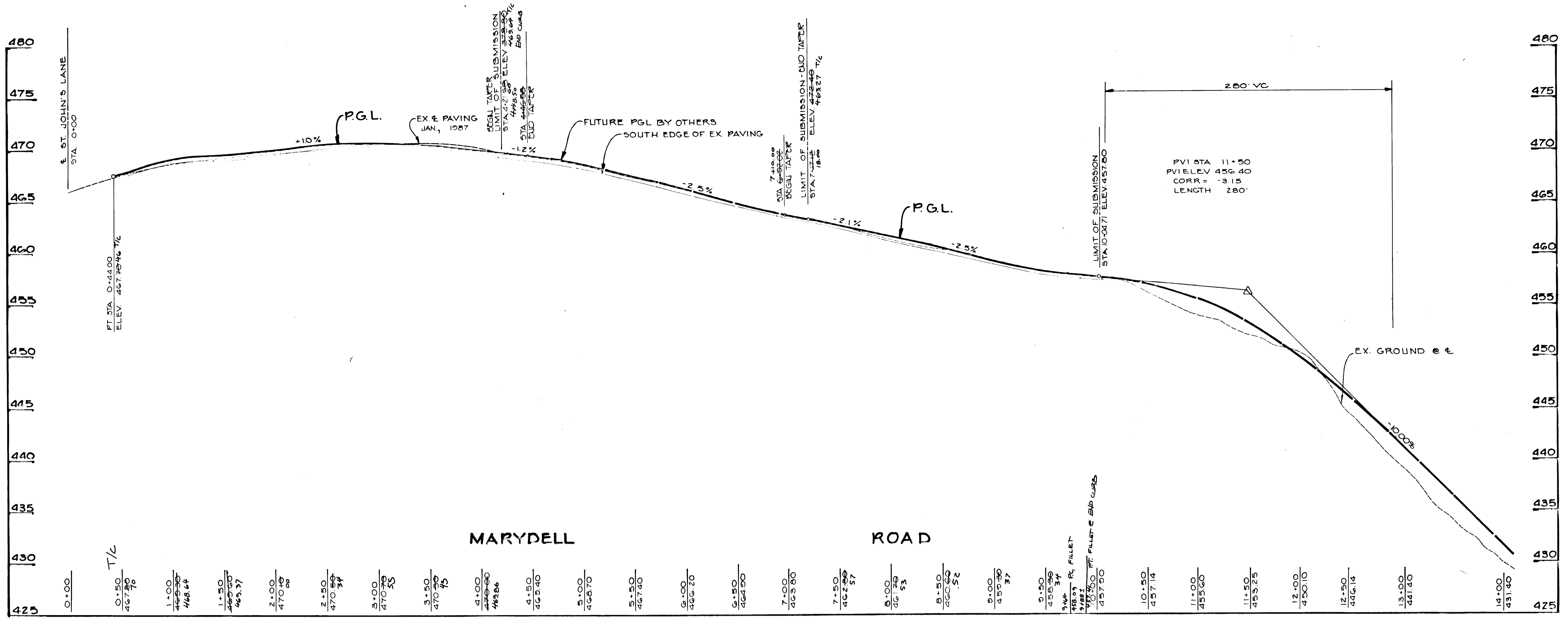
CURVE DATA VICTORIA DRIVE
 C STA 2+23.51 TO C STA 6+68.50
 Δ=74°28'20"
 R=270.00
 L=445.15
 T=251.74
 D=21°13'41"
 Chd. N 30°10'20" E 396.45

| | | |
|--|-----------------|----------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>Michelle J. H.</i> CHIEF, LAND DEVELOPMENT DIVISION | 2-23-88 DATE | |
| <i>Draville W. Wilkerson</i> CHIEF, BUREAU OF HIGHWAYS | 2/24/88 DATE | |
| <i>William E. Rely</i> CHIEF, BUREAU OF ENGINEERING | 2-25-88 DATE | |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>James R. Smith</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT | 3/14/88 DATE | |
| NO | DATE | REVISION |

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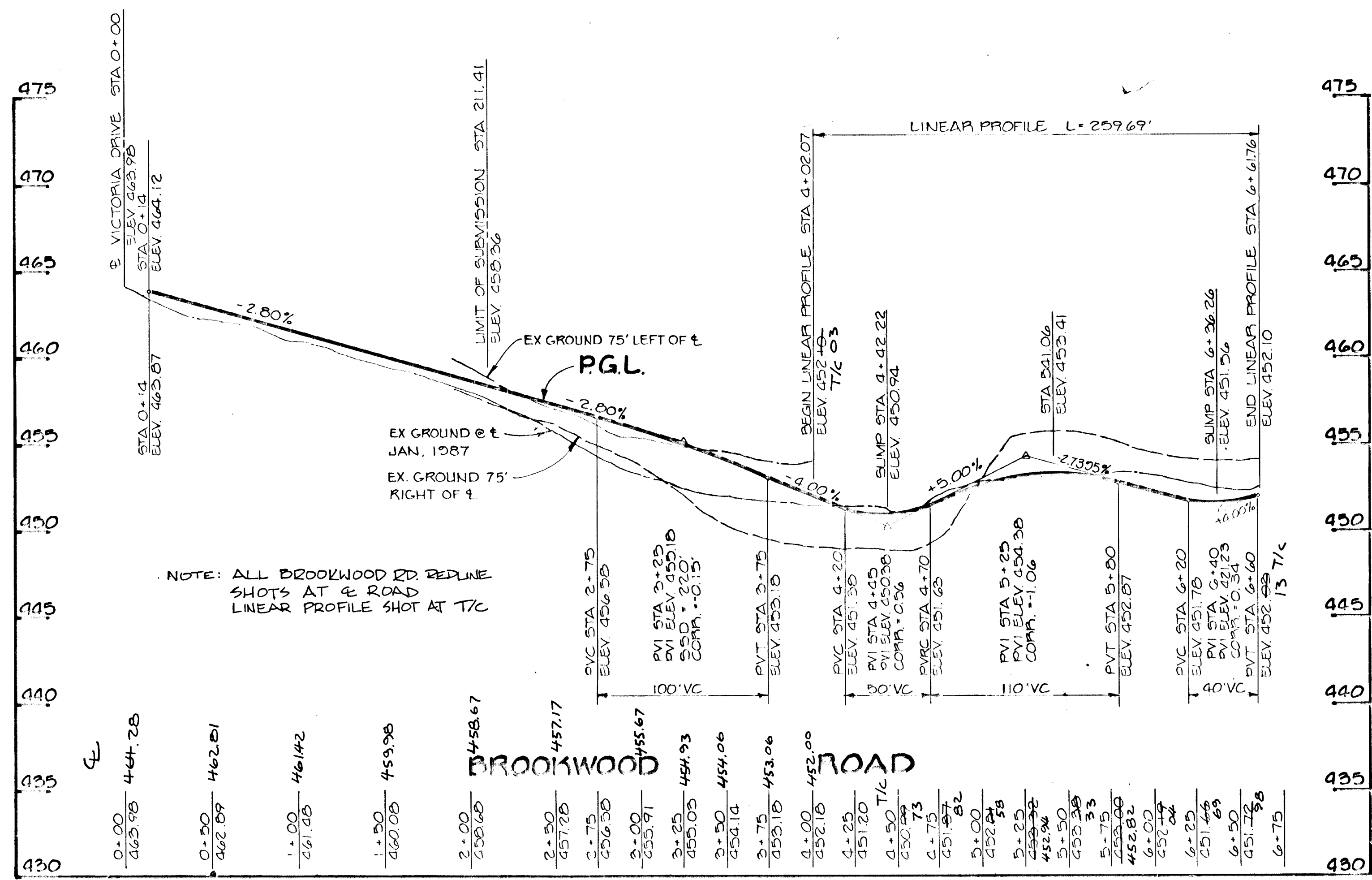
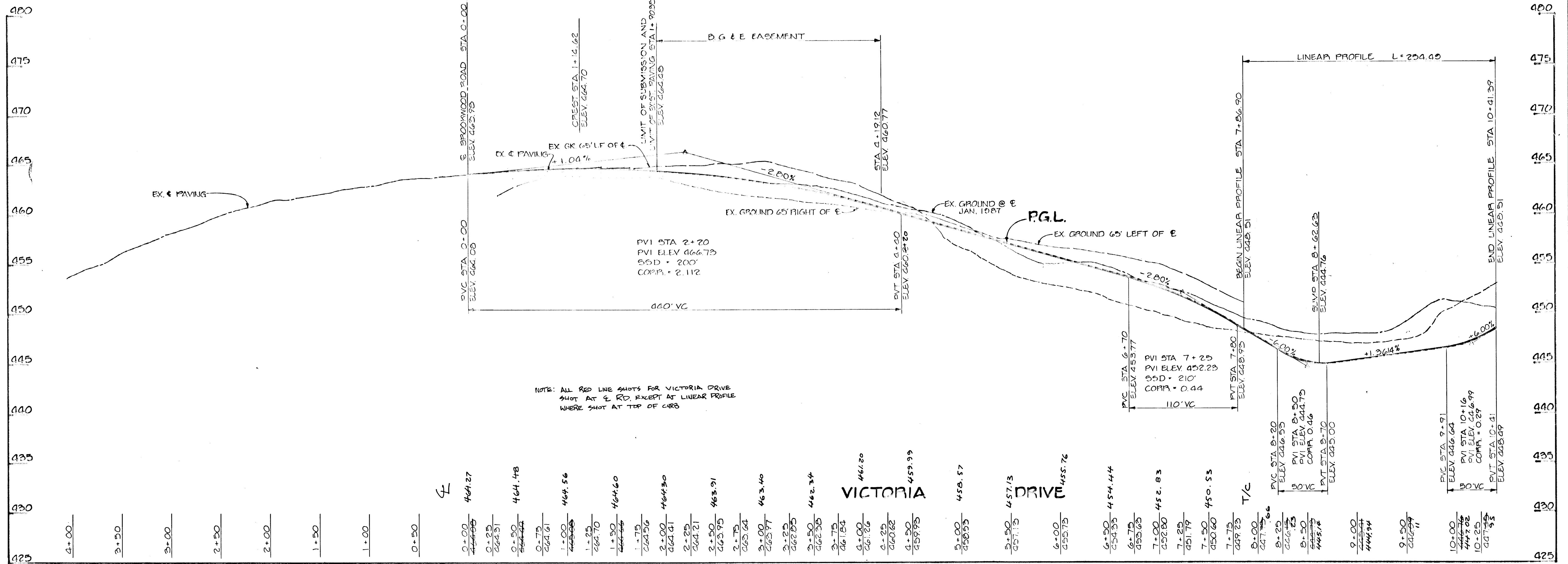
James K. Schulte

| | |
|---|--|
| OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043 | PROJECT BOONE MEADOWS SECTION I, PART A1 |
| DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043 | LOCATION TAX MAP NO 17 PARCEL 16 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE PLAN OF VICTORIA DRIVE | NO. 8741 P. 87 OF 84 |
| DATE AUG 28 1987 | PROJECT NO 8751 P. 03 |
| DES. R. J. W. DRN. J. C. A. | SCALE 1"=50' DRAWING 3 OF 13 |



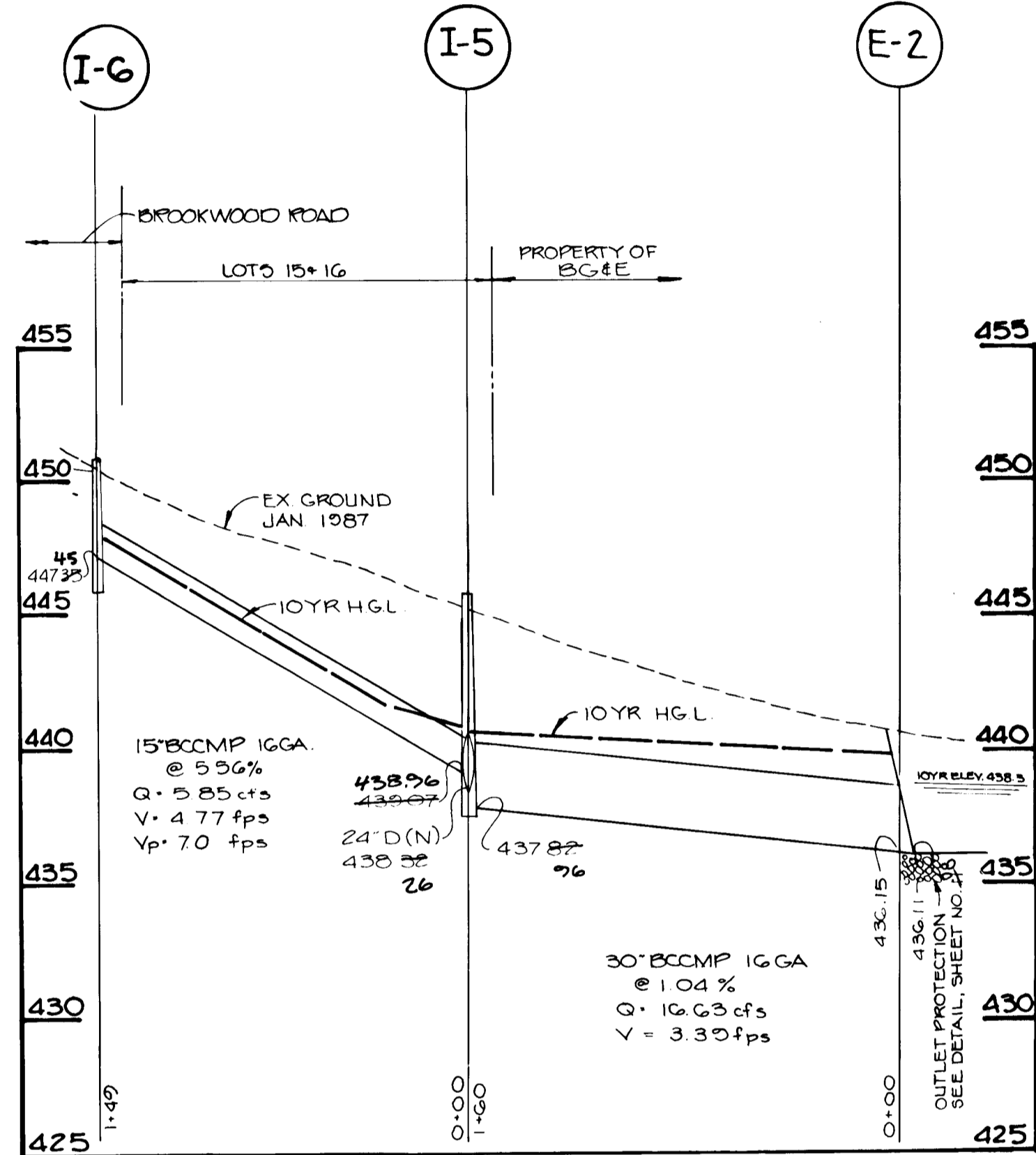
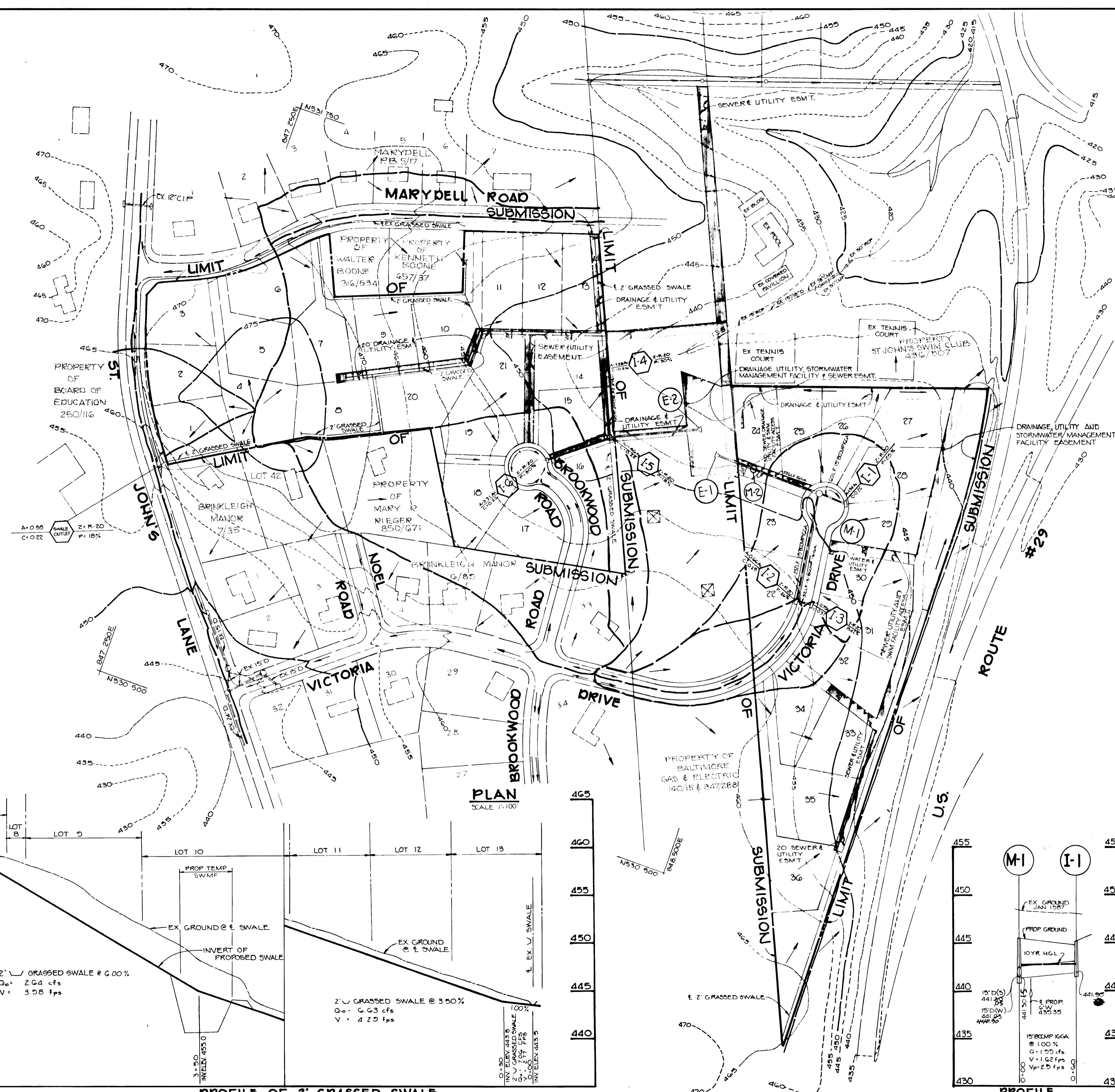
PROFILES
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

| | | |
|---|----------|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | | 2-23-88 |
| CHIEF, LAND DEVELOPMENT DIVISION | | DATE |
| <i>Manville W. Wilford</i> | | 2/24/88 |
| CHIEF, BUREAU OF HIGHWAYS | | DATE |
| <i>W. C. ...</i> | | 2-25-88 |
| CHIEF, BUREAU OF ENGINEERING | | DATE |
| <i>Joseph Smith</i> | | 3/14/88 |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | | |
| COMMUNITY PLANNING AND LAND DEVELOPMENT | | |
| 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 | | PROJECT: POONE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER: SECURITY DEVELOPMENT CORP. P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 | | LOCATION: TAX MAP NO. 17, PARCEL 119 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE: ROAD PROFILES MARYDELL RD & ST. JOHN'S LANE | | DATE: AUG 28, 1987 |
| DATE: DEC. 2, 1987 | | PROJECT NO: 8751 RSD |
| DES. RJW | DRN. SAB | SCALE: HORIZ. 1" = 50' VERT. 1" = 5' |
| DRAWING: 4 OF 13 | | |



PROFILES
SCALE: V.P.T.

| | | |
|---|------|--|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | | 2-23-88 |
| CHIEF, LAND DEVELOPMENT DIVISION | | DATE |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | | 3/14/88 |
| CHIEF, BUREAU OF HIGHWAYS | | DATE |
| CHIEF, BUREAU OF ENGINEERING | | DATE |
| CHIEF, BUREAU OF COMMUNITY PLANNING AND LAND DEVELOPMENT | | DATE |
| NO | DATE | REVISION |
| TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering 8490 Baltimore National Pike • Ellicott City, Maryland 21043 • (301) 465-6105 | | |
| PROJECT: SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043 | | PROJECT: BOOLE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER: SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043 | | LOCATION: TAX MAP NO 17 PARCEL 116 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE: PROFILE OF BROOKWOOD ROAD AND VICTORIA DRIVE | | DATE: AUG 28, 1987 |
| DATE: AUG 28, 1987 | | PROJECT NO 8751 |
| DES. CDT: JH | | SCALE: 1" = 10' |
| DRN. JH | | DRAWING 5 OF 15 |



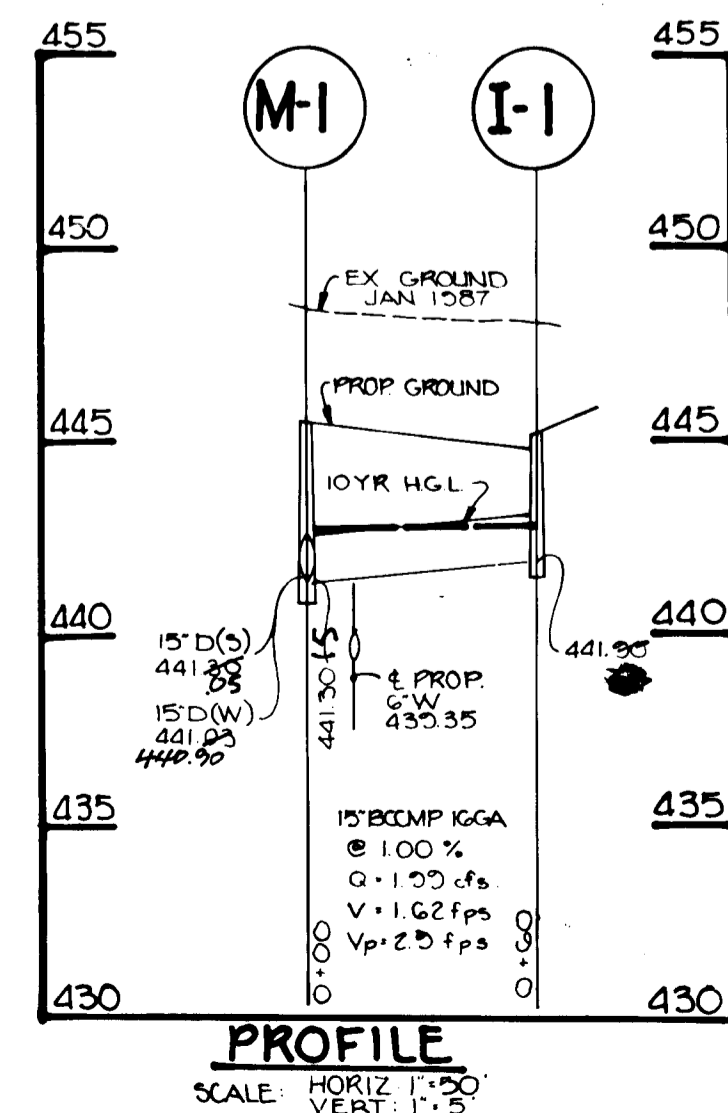
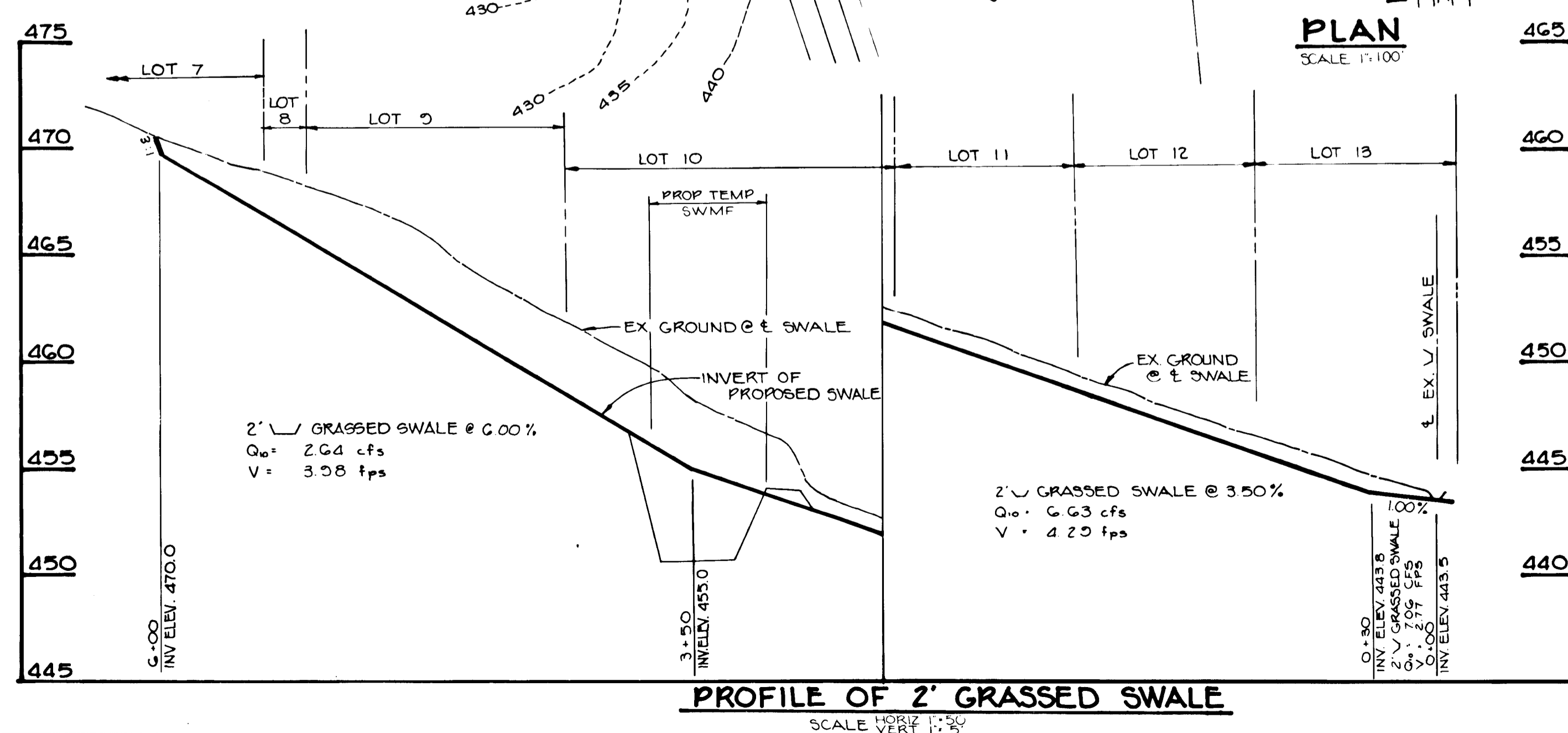
PROFILE
SCALE: HORIZ 1"=50' VERT 1"=5'

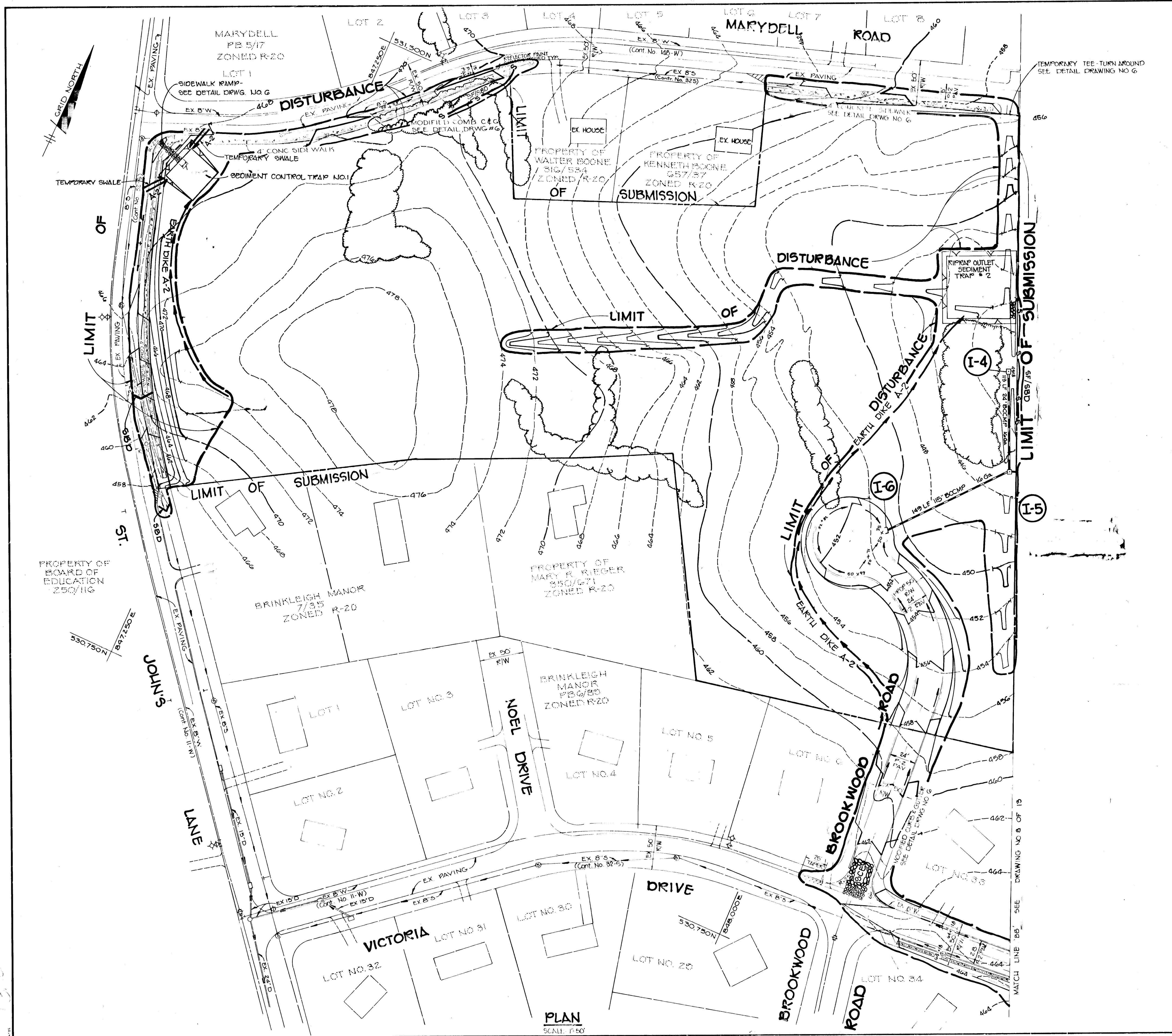
| | |
|--|---------------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | DATE: 2-23-88 |
| CHIEF, LAND DEVELOPMENT DIVISION | |
| <i>Francis W. Weiland</i> | DATE: 2/24/88 |
| CHIEF, BUREAU OF HIGHWAYS | |
| <i>William R. Ryan</i> | DATE: 2-25-88 |
| CHIEF, BUREAU OF ENGINEERING | |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | DATE: 3/14/88 |
| <i>James Smith</i> | |
| CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT | |

| NO | DATE | REVISION |
|----|------|----------|
| | | |

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| | |
|--|---|
| OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | PROJECT BOONE MEADOW SECTION 1, APFA 1 |
| DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | LOCATION TAX MAP NO 17 PARCEL 116 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE STORM DRAIN PROFILES AND DRAINAGE AREA MAP | DATE AUG. 20, 1987 FEB. 8, 1988 |
| DATE | PROJECT NO 0751 RSD |
| DES RJW | DRAWING G OF 13 |





| SEDIMENT TRAP DATA | | |
|--------------------|---------------------|---------------------|
| | SEDIMENT TRAP NO. 1 | SEDIMENT TRAP NO. 2 |
| DRAINAGE AREA | 1.76 AC. | 10.35 AC. |
| DISTURBED AREA | 0.21 | 0.74 |
| STORAGE VOLUME | | |
| REQUIRED | 3168 CF | 18,630 CF |
| PROVIDED | 3200 CF | 19,600 CF |
| CREST ELEV. | 468.25 | 443.0 |
| CLEANOUT ELEV. | 466.75 | 441.0 |
| BOTTOM ELEV. | 465.75 | 439.0 |
| TRAP DIMENSION | 40' x 40' x 2' | 70' x 70' x 4.0' |
| WEIR LENGTH | 7' | 14' |

BY THE DEVELOPER:
 "I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
James R. Moulton, Jr. 8-30-87
 DEVELOPER: JAMES R. MOULTON, JR. - PRES. SECURITY DEVELOPMENT CORP. DATE

BY THE ENGINEER:
 "I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
James K. Tracy 8-30-87
 ENGINEER: JAMES K. TRACY, P.E. #9566 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
James M. Helm 2-11-88
 U.S. SOIL CONSERVATION SERVICE DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Robert W. Zielman 2-11-88
 HOWARD S.C.D. DATE

APPROVED HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 2-23-88
Michelle Helm DATE
 CHIEF, LAND DEVELOPMENT DIVISION
Travis W. Helms 2/24/88
 CHIEF, BUREAU OF HIGHWAYS
Richard E. Ray 2-23-88
 CHIEF, BUREAU OF ENGINEERING DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING 3/14/88
James R. Keith DATE
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

| NO. | DATE | REVISION |
|-----|------|----------|
| | | |
| | | |

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OWNER: SECURITY DEVELOPMENT CORP. PO BOX 417, ELLICOTT CITY, MARYLAND 21043

PROJECT: BOONE MEADOWS SECTION I, AREA 1

LOCATION: TAX MAP NO. 17 PARCEL 116, 2ND ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

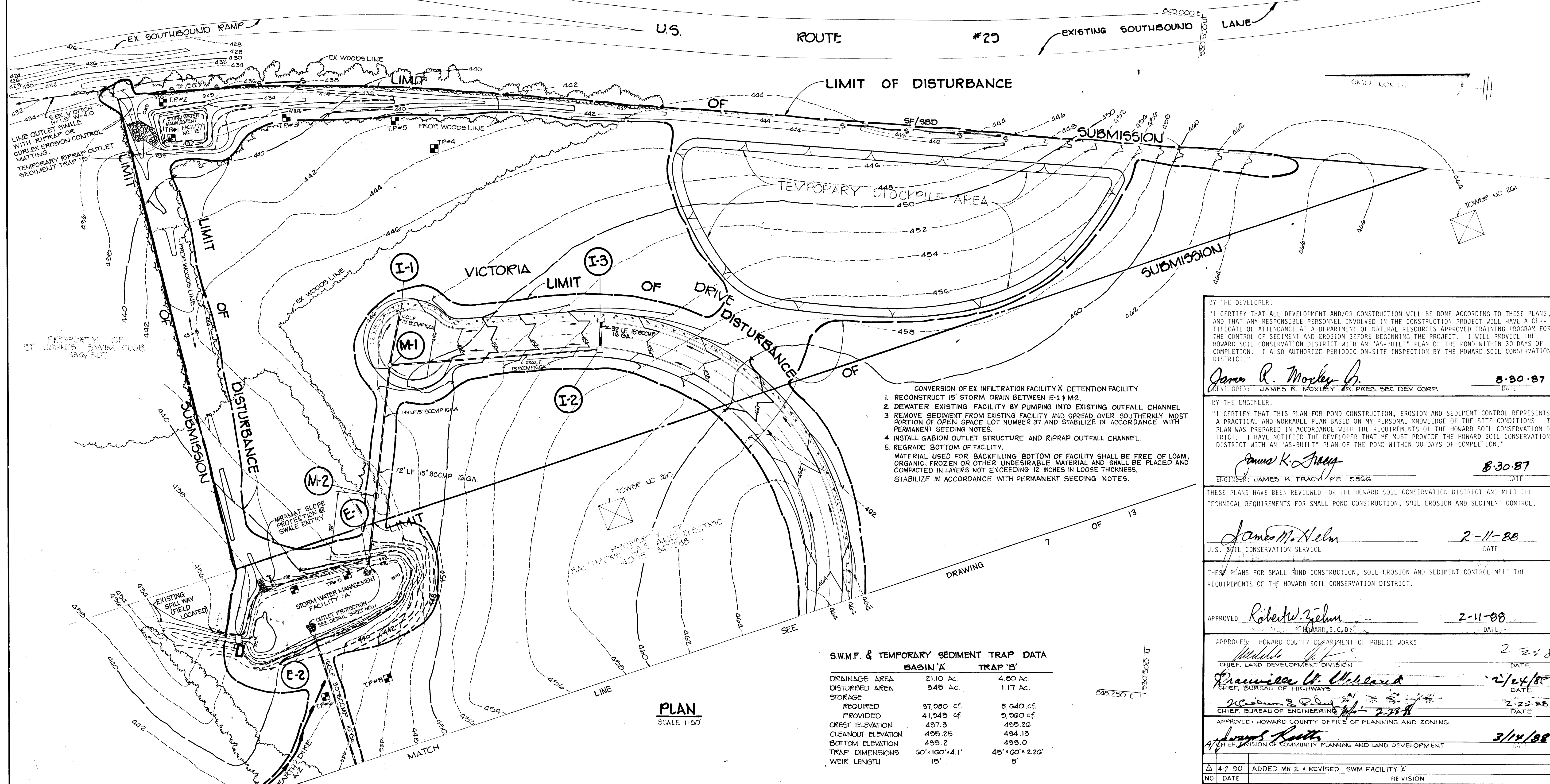
DEVELOPER: SECURITY DEVELOPMENT CORP. PO BOX 417, ELLICOTT CITY, MARYLAND 21043

TITLE: GRADING & SEDIMENT CONTROL PLAN
 587-41 P 87-84

DATE: AUG 28, 1987 PROJECT NO 8751 R5D
 DEC. 2, 1987

DES: RJW DRN: JCA/KMN SCALE: 1"=50' DRAWING 7 OF 13

NOTE: FOR TEST PIT LOGS, SEE DRWG. NO. 5 OF 15.

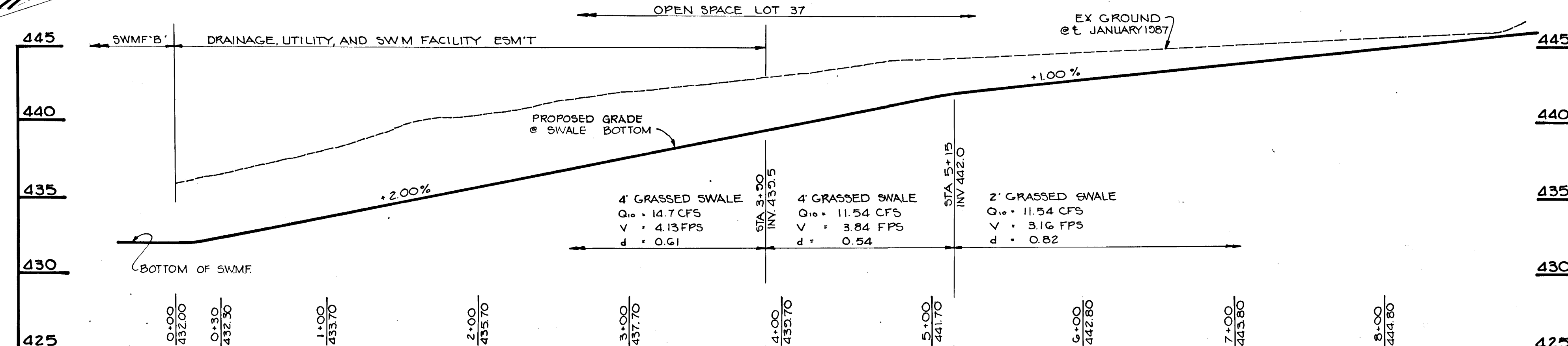


- CONVERSION OF EX. INFILTRATION FACILITY 'A' DETENTION FACILITY
1. RECONSTRUCT 15' STORM DRAIN BETWEEN E-1 & M-2.
 2. DEWATER EXISTING FACILITY BY PUMPING INTO EXISTING OUTFALL CHANNEL.
 3. REMOVE SEDIMENT FROM EXISTING FACILITY AND SPREAD OVER SOUTHERLY MOST PORTION OF OPEN SPACE LOT NUMBER 37 AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
 4. INSTALL GABION OUTFALL STRUCTURE AND RIPRAP OUTFALL CHANNEL.
 5. REGRADE BOTTOM OF FACILITY.
- MATERIAL USED FOR BACKFILLING BOTTOM OF FACILITY SHALL BE FREE OF LOAM, ORGANIC, FROZEN OR OTHER UNDESIRABLE MATERIAL AND SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 12 INCHES IN LOOSE THICKNESS, STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

S.W.M.F. & TEMPORARY SEDIMENT TRAP DATA

| | BASIN 'A' | TRAP 'B' |
|--------------------|-------------------|-------------------|
| DRAINAGE AREA | 2110 AC. | 4.80 AC. |
| DISTURBED AREA | 345 AC. | 1.17 AC. |
| STORAGE | | |
| REQUIRED | 37,080 CF. | 8,640 CF. |
| PROVIDED | 41,043 CF. | 2,030 CF. |
| CREST ELEVATION | 437.3 | 435.26 |
| CLEANOUT ELEVATION | 435.25 | 434.15 |
| BOTTOM ELEVATION | 433.2 | 433.0 |
| TRAP DIMENSIONS | 60' x 120' x 4.1' | 45' x 20' x 2.26' |
| WEIR LENGTH | 15' | 8' |

PLAN
SCALE 1"=50'



PROFILE - SWALE ALONG U.S. ROUTE 29
SCALE: H=1"=50', V=1"=5'

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."
James R. Moxley Jr.
DEVELOPER: JAMES R. MOXLEY JR. PRES. SEC. DEV. CORP. DATE: 8-30-87

BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."
James K. Tracy
ENGINEER: JAMES K. TRACY P.E. 0566 DATE: 8-30-87

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.
James M. Helm
U.S. SOIL CONSERVATION SERVICE DATE: 2-11-88

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *Robert W. Zelman* DATE: 2-11-88
HOWARD, S.C.D.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Musick DATE: 2-23-88
CHIEF, LAND DEVELOPMENT DIVISION
James H. Uhlir DATE: 2/24/88
CHIEF, BUREAU OF HIGHWAYS
William S. P... DATE: 2-25-88
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
James R... DATE: 3/14/88
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

TRACY, SCHULTE & ASSOCIATES INC.
planning • architecture • engineering
8480 Baltimore National Pike • Ellicott City, Maryland 21041 • (301) 465-6105
James K. Tracy

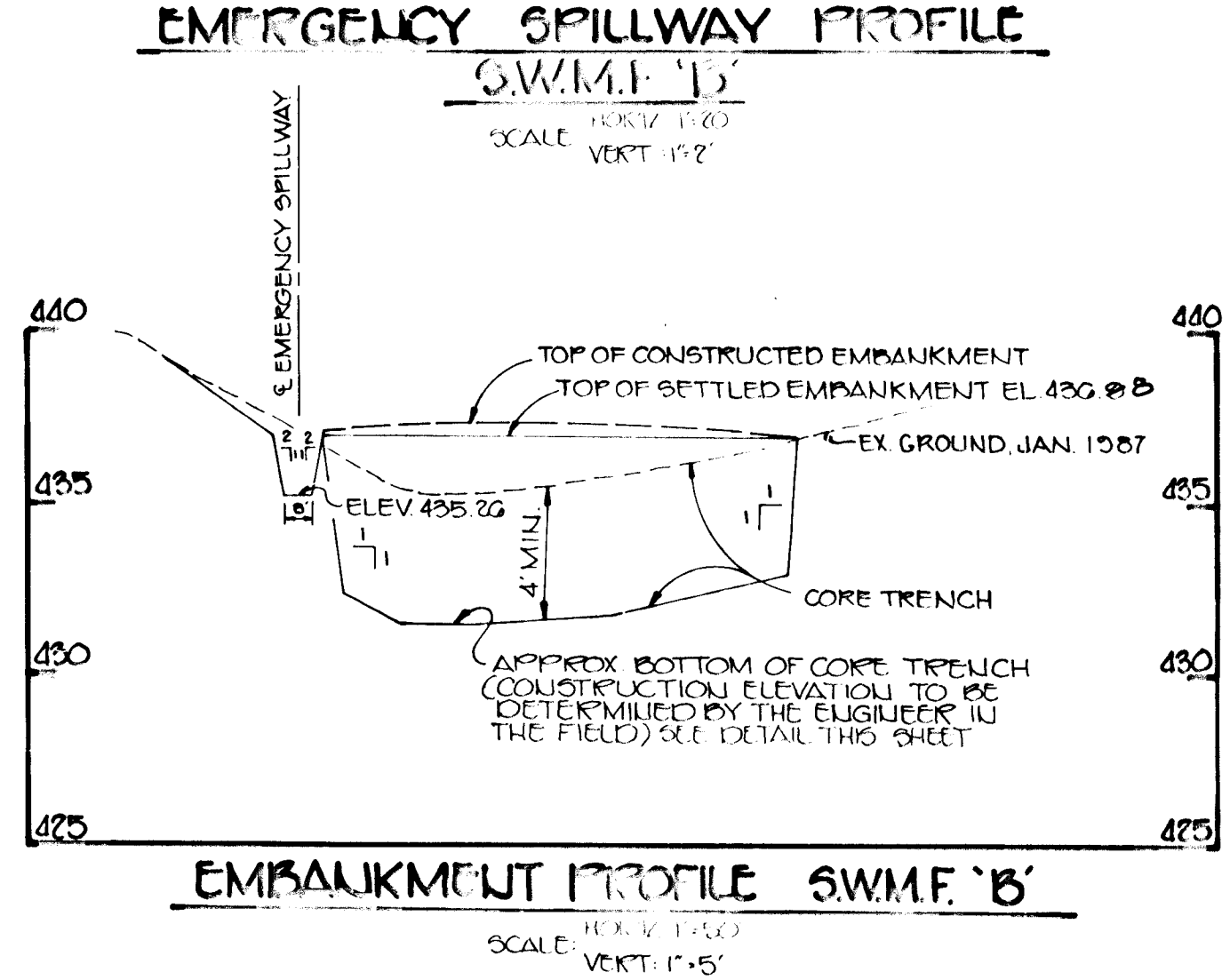
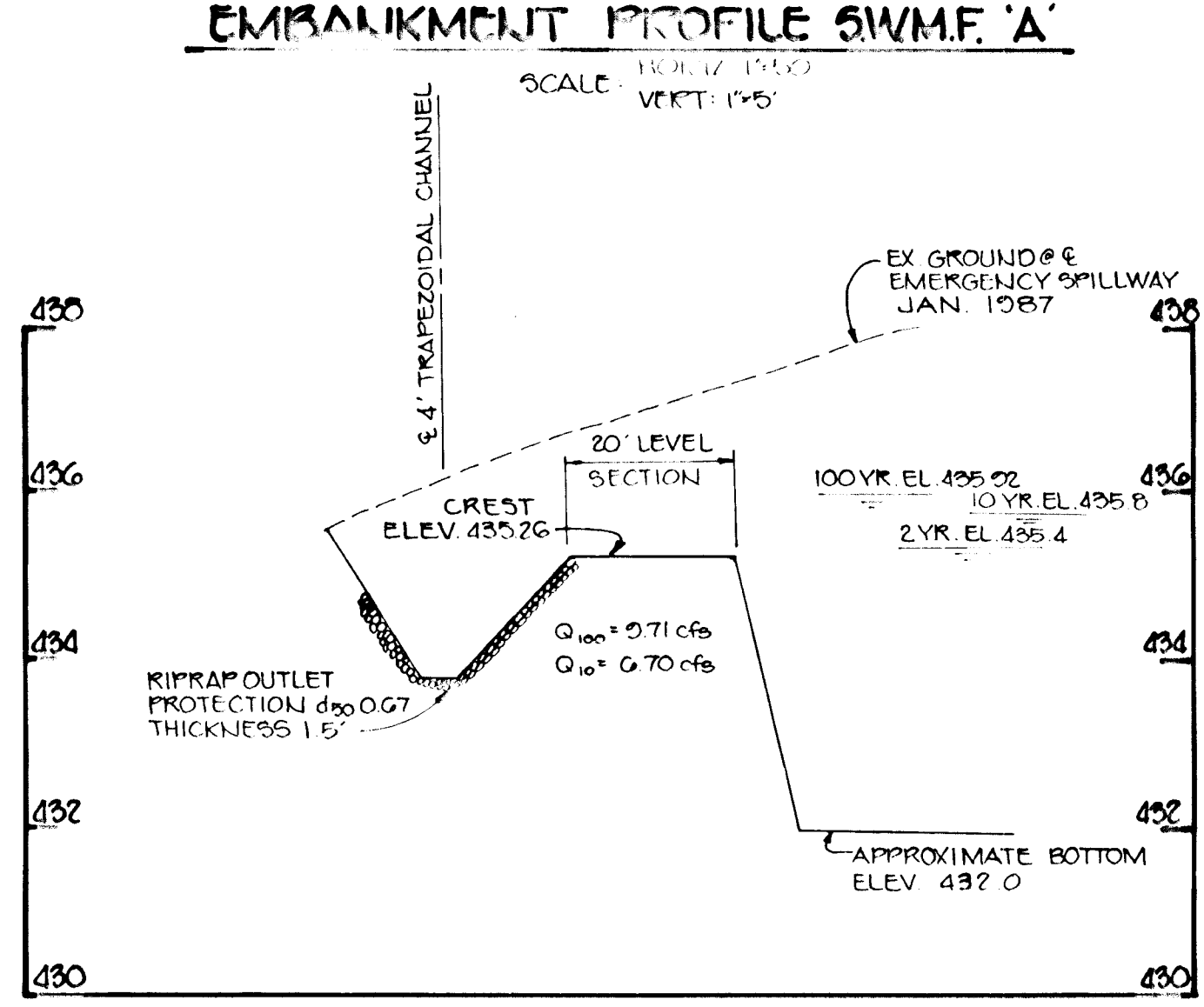
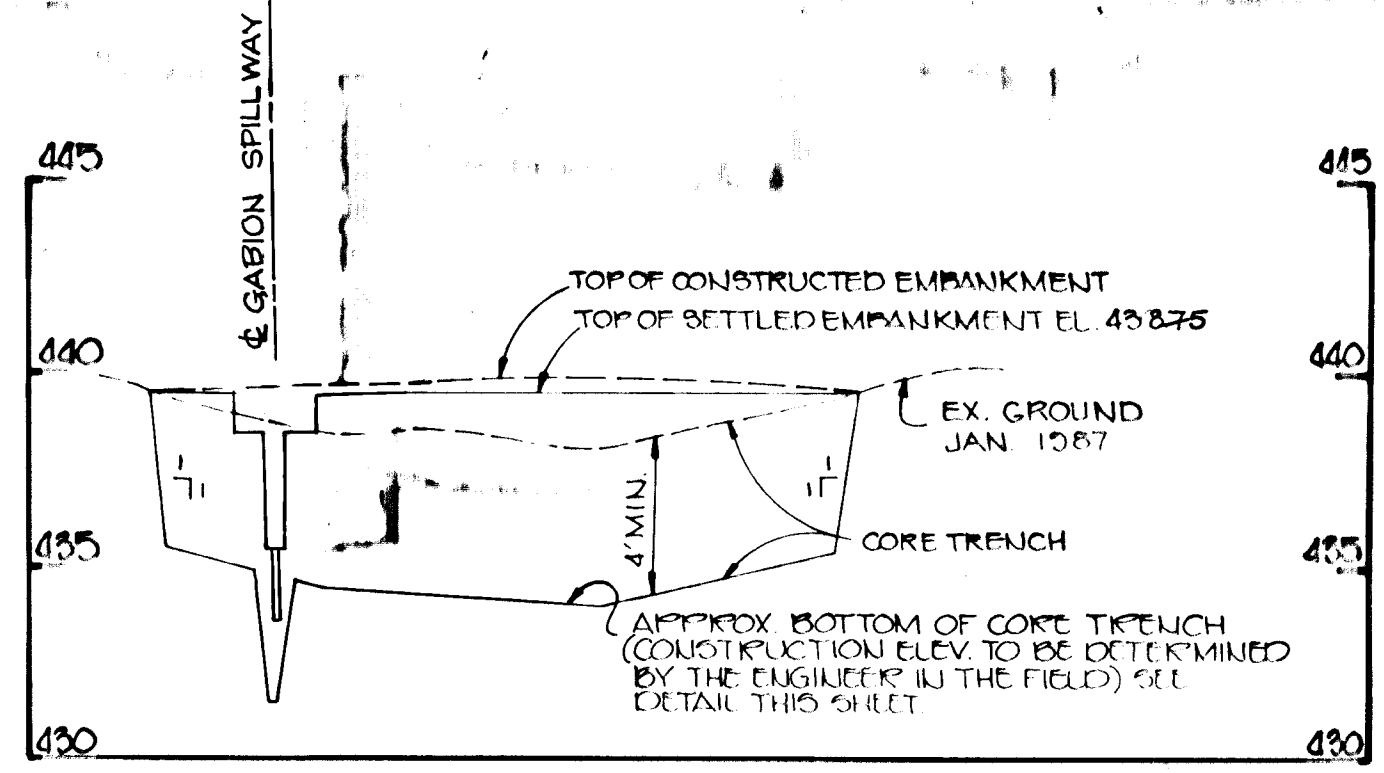
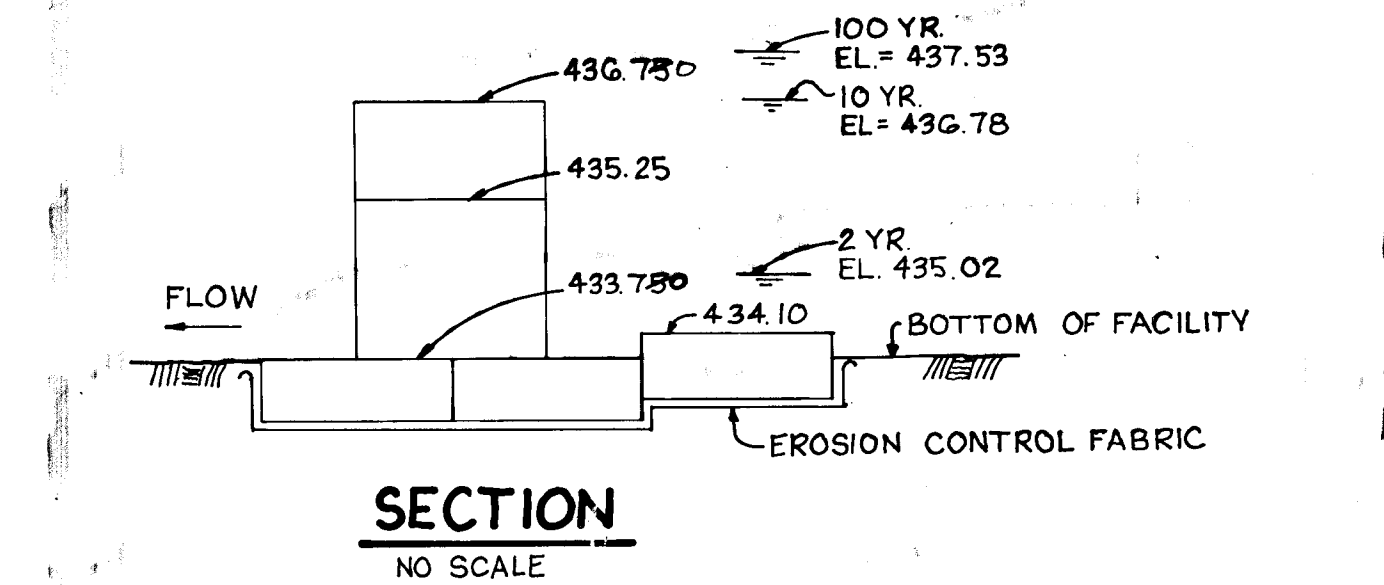
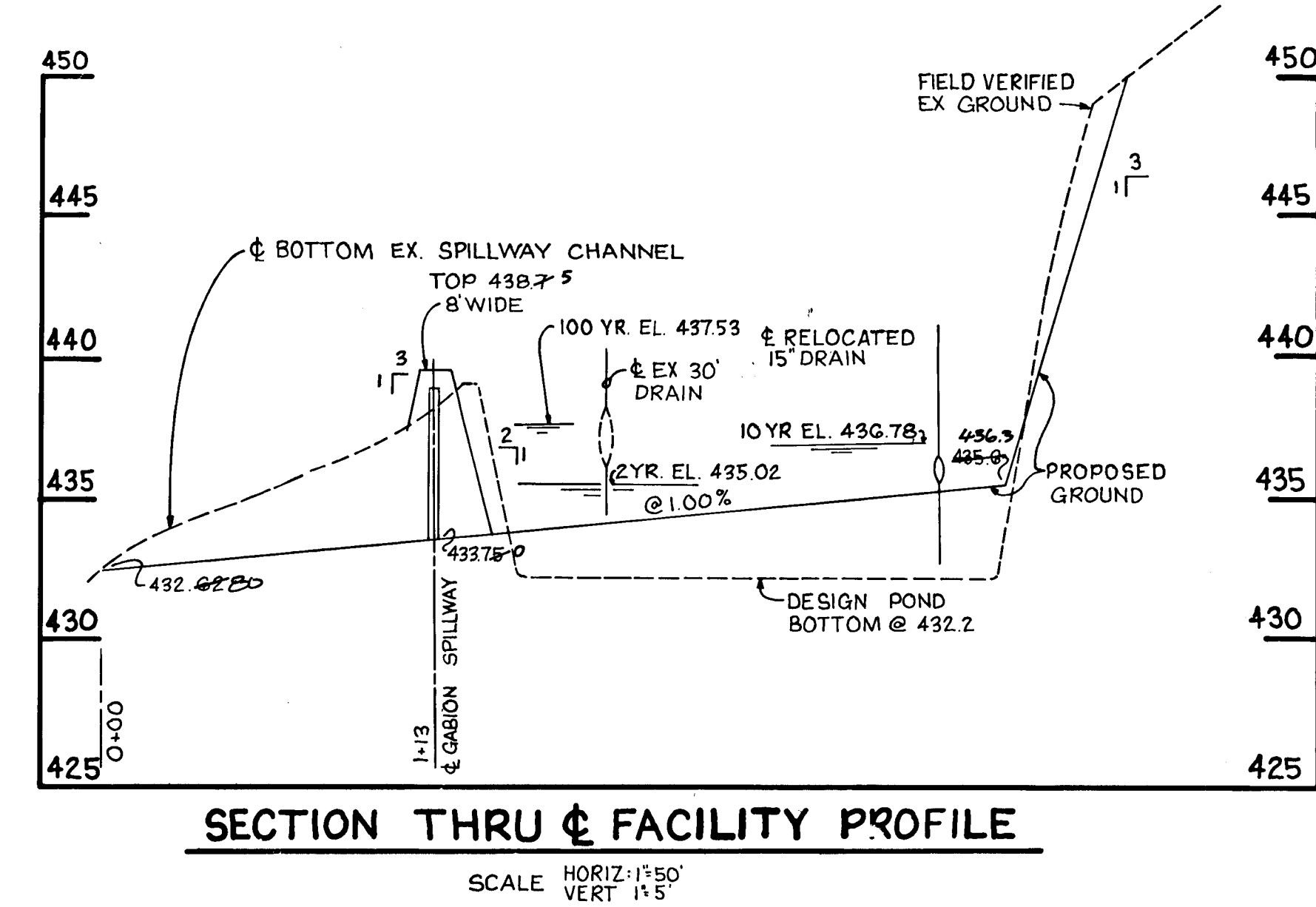
| | |
|--|--|
| OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | PROJECT BOONIE MEADOWS SECTION 1, ART 1A1 |
| DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | LOCATION TAX MAP NO. IT PARCEL 116 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE STORM WATER MANAGEMENT AND GRADING AND SEDIMENT CONTROL PLAN | DATE AUG 28, 1987 DEC 2, 1987 |
| DATE AUG 28, 1987 DEC 2, 1987 | PROJECT NO. 8751 RSD |
| DESIGNER RJW DRN SAB/KMN | SCALE 1"=50' |
| DRAWING NO. 8 OF 13 | |

| | | | |
|-----|---|---|--|
| 3 | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) |
| 5 | Tan and brown, moist, micaceous, Silty fine SAND (SM) trace Clay U.S.D.A. (Sandy LOAM) | Tan and brown, moist, micaceous, Silty fine SAND (SM) little clay U.S.D.A. (Sandy LOAM) | Tan and brown, moist, micaceous, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) |
| 8.5 | Tan, brown, and grey, moist, micaceous Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy gravelly SAND) | Tan and brown, moist, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) | Tan and brown, moist, micaceous, Silty fine SAND (SM) trace Clay U.S.D.A. (Sandy LOAM) |
| 10 | Tan and yellow, moist, Silty fine SAND (SM), trace clay U.S.D.A. (Loamy SAND) | Test Pit Terminated @ 10.0' | Test Pit Terminated @ 10.0' |

| | | | |
|-----|--|--|--|
| 2.5 | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) | Tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) |
| 7 | Tan and brown, moist, micaceous, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) | Tan and brown, moist, micaceous, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) | Brown, moist, micaceous, Silty fine SAND (SM), trace Clay U.S.D.A. (Sandy LOAM) |
| 10 | Tan, yellow, and brown, moist, Silty fine SAND (SP-SM) trace Clay U.S.D.A. (Loamy SAND) | Tan, yellow and brown, moist, Silty fine SAND (SP-SM) trace Clay U.S.D.A. (Loamy SAND) | Brown, moist, micaceous, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) |

| | | | |
|----|--|--|---|
| 3 | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) | Grey and tan, moist, Silty (M.S.) little Clay U.S.D.A. (LOAM) |
| 6 | Brown, moist, micaceous, Silty fine SAND (SM), little Clay U.S.D.A. (Sandy LOAM) | Brown, moist, micaceous, Silty fine SAND (SM), trace Clay U.S.D.A. (Sandy LOAM) | Brown, moist, micaceous, Silty fine SAND (SM), trace Clay U.S.D.A. (Sandy LOAM) |
| 10 | Brown, moist, micaceous, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) | Brown, moist, micaceous, Silty to Clayey fine SAND (SM-SC) U.S.D.A. (Loamy SAND) | Brown, grey, and tan, moist, micaceous, Silty SAND (SM) U.S.D.A. (Sandy LOAM) |

TEST PIT LOGS
NO SCALE



I. SITE PREPARATION
AREAS DESIGNATED FOR BORROW AREAS EMBANKMENT, AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. CHANNEL BANKS AND SHARP BREAKS SHALL BE SLOPED NO STEEPER THAN 1:1.

AREAS TO BE COVERED BY THE POND OR RESERVOIR WILL BE CLEARED OF ALL TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL UNLESS OTHERWISE DESIGNATED ON THE PLANS. TREES, BRUSH AND STUMPS SHALL BE CUT APPROXIMATELY LEVEL WITH THE GROUND SURFACE.

ALL CLEARED AND GRUBBED MATERIAL SHALL BE DISPOSED OF OUTSIDE AND BELOW THE LIMITS OF THE DAM AND RESERVOIR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE. WHEN SPECIFIED, A SUFFICIENT QUANTITY OF TOPSOIL WILL BE STOCKPILED IN A SUITABLE LOCATION FOR USE ON THE EMBANKMENT AND OTHER DESIGNATED AREAS.

II. EARTH FILL
THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREA OR AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD RUBBISH, OVERSIZE STONES, FROZE, OR OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION WHICH PROVIDES FOR ANTICIPATED SETTLEMENT TO THE DESIGN ELEVATION. THE FILL HEIGHT ALL ALONG THE LENGTH OF THE EMBANKMENT SHALL BE INCREASED ABOVE THE DESIGN ELEVATION (INCLUDING FREEBOARD) AS SHOWN ON THE PLANS.

PLACEMENT
AREAS ON WHICH FILL TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIALS SHALL BE PLACED IN 3-INCH MAXIMUM THICKNESS (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST POROUS BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT.

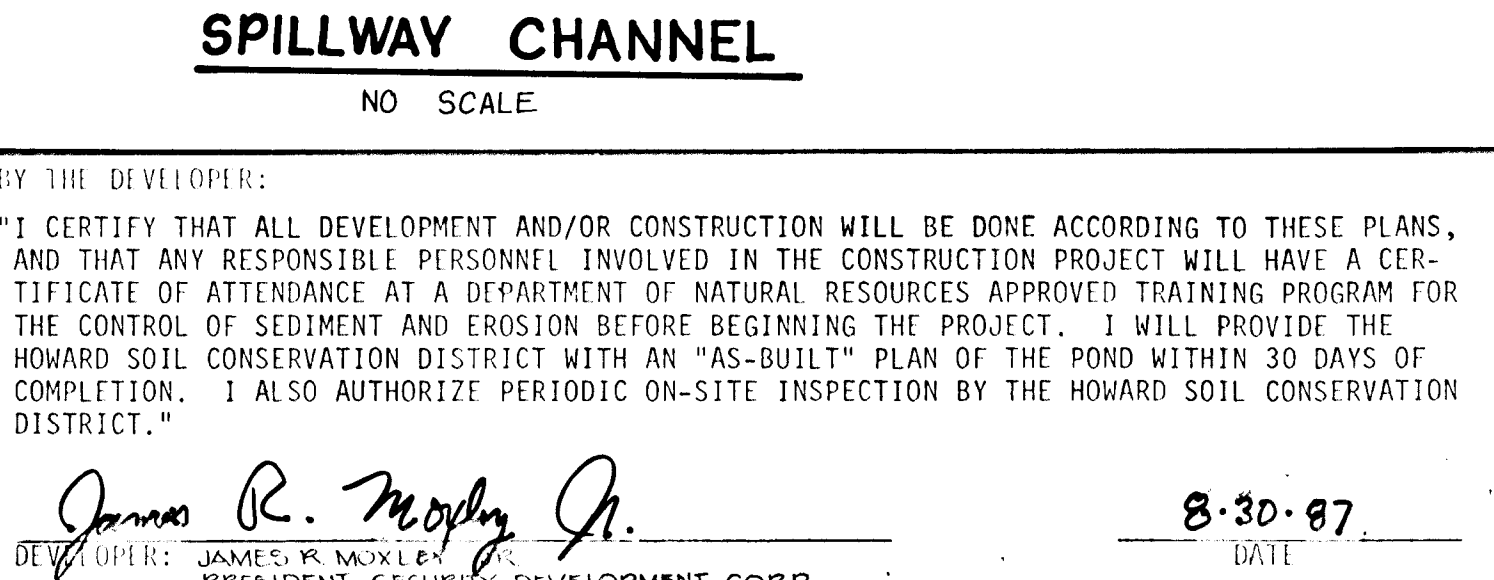
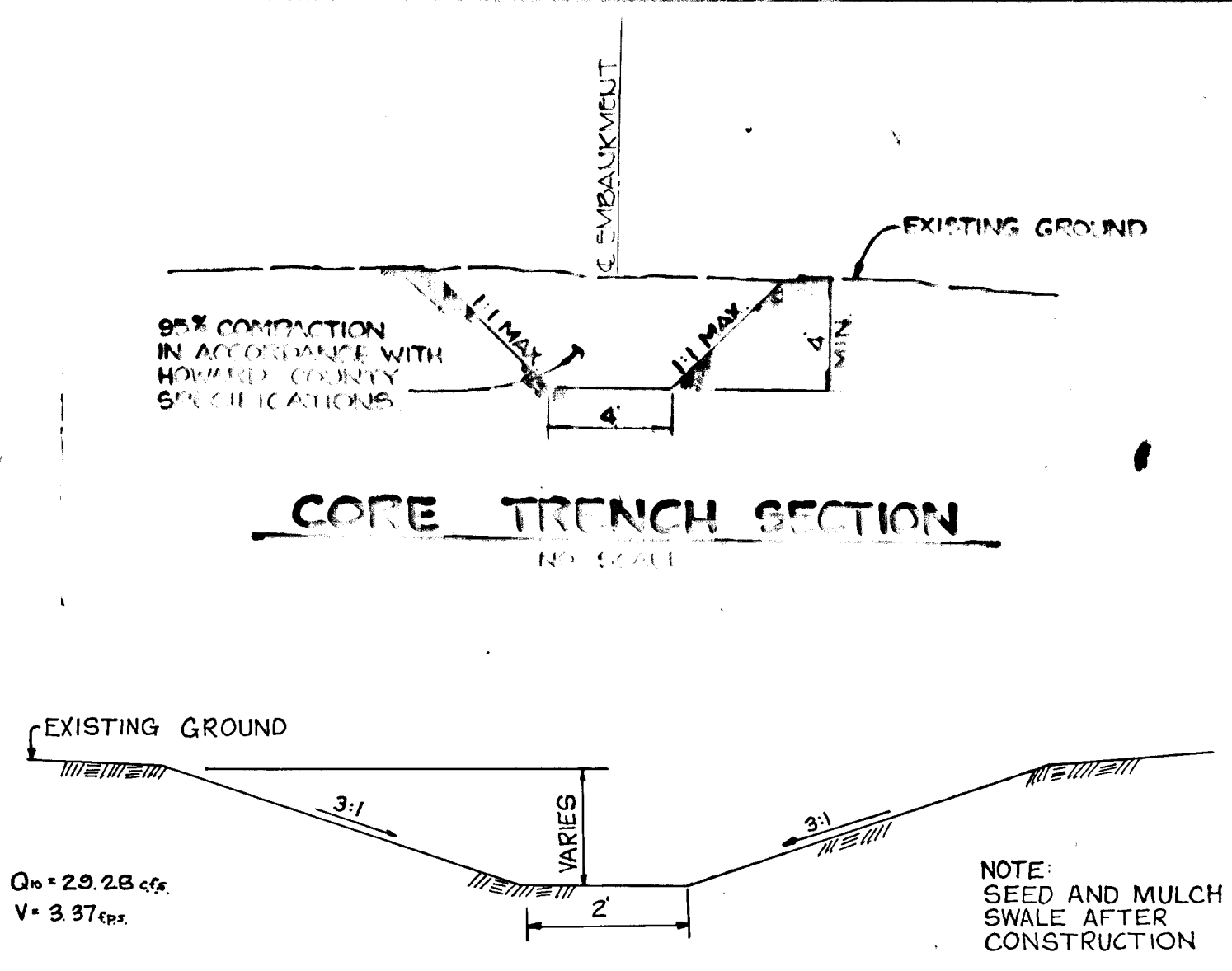
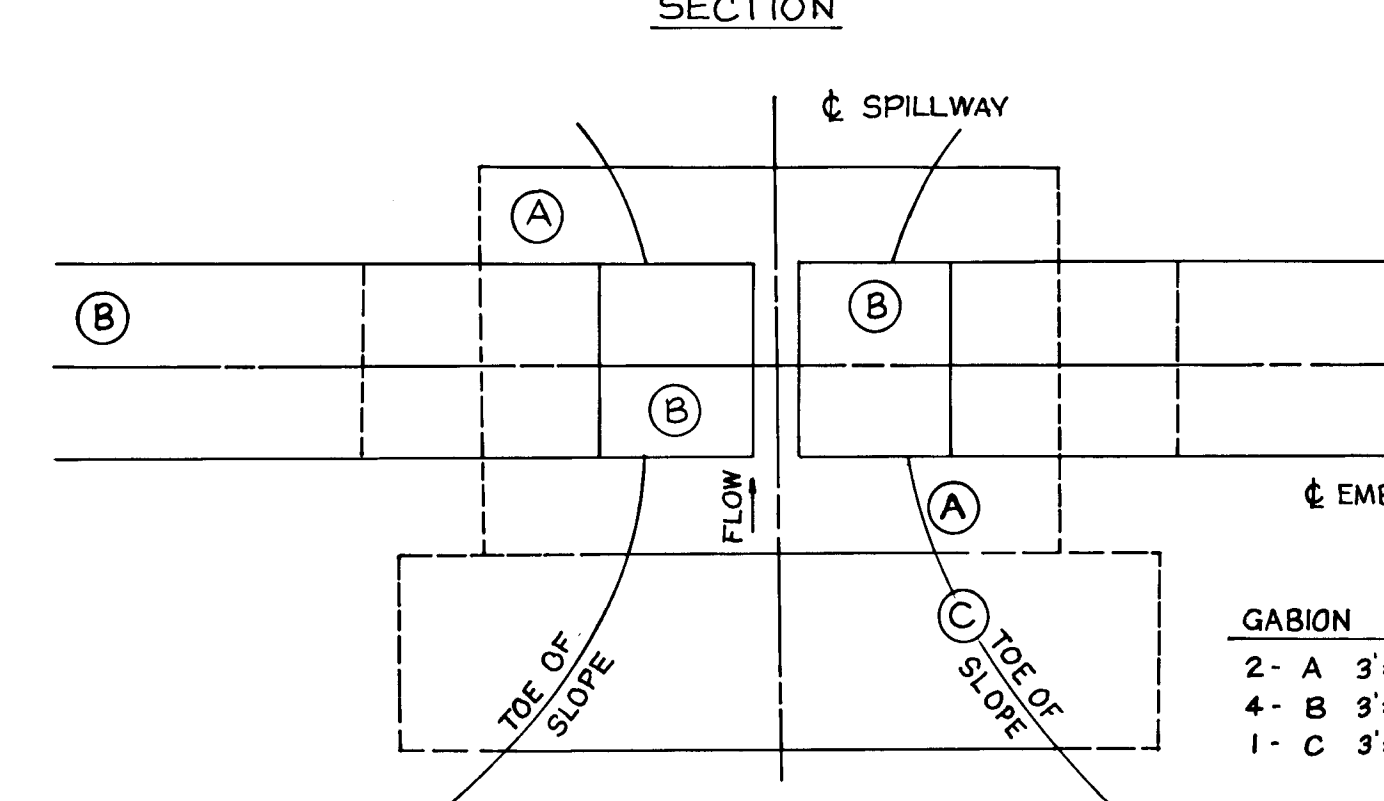
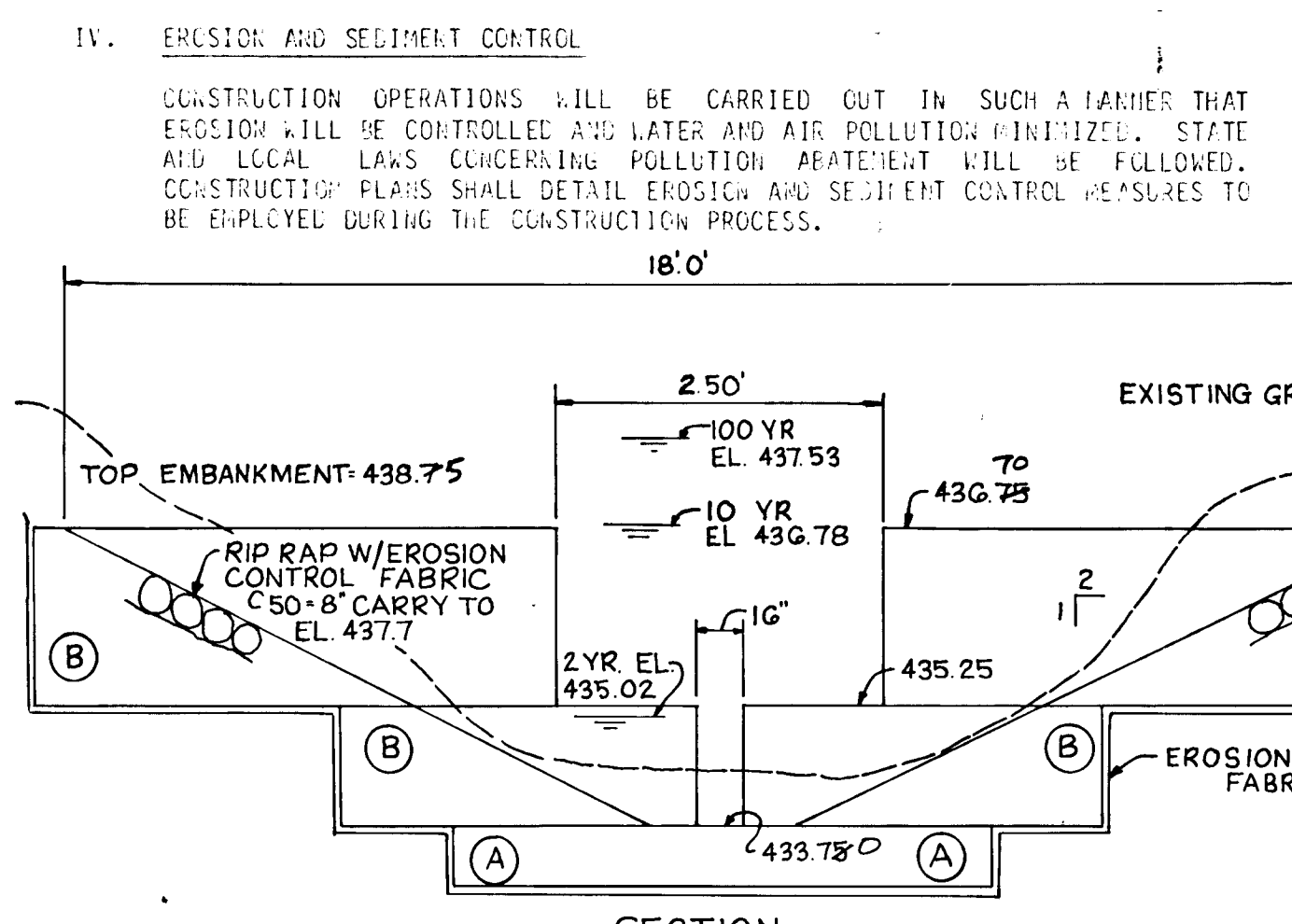
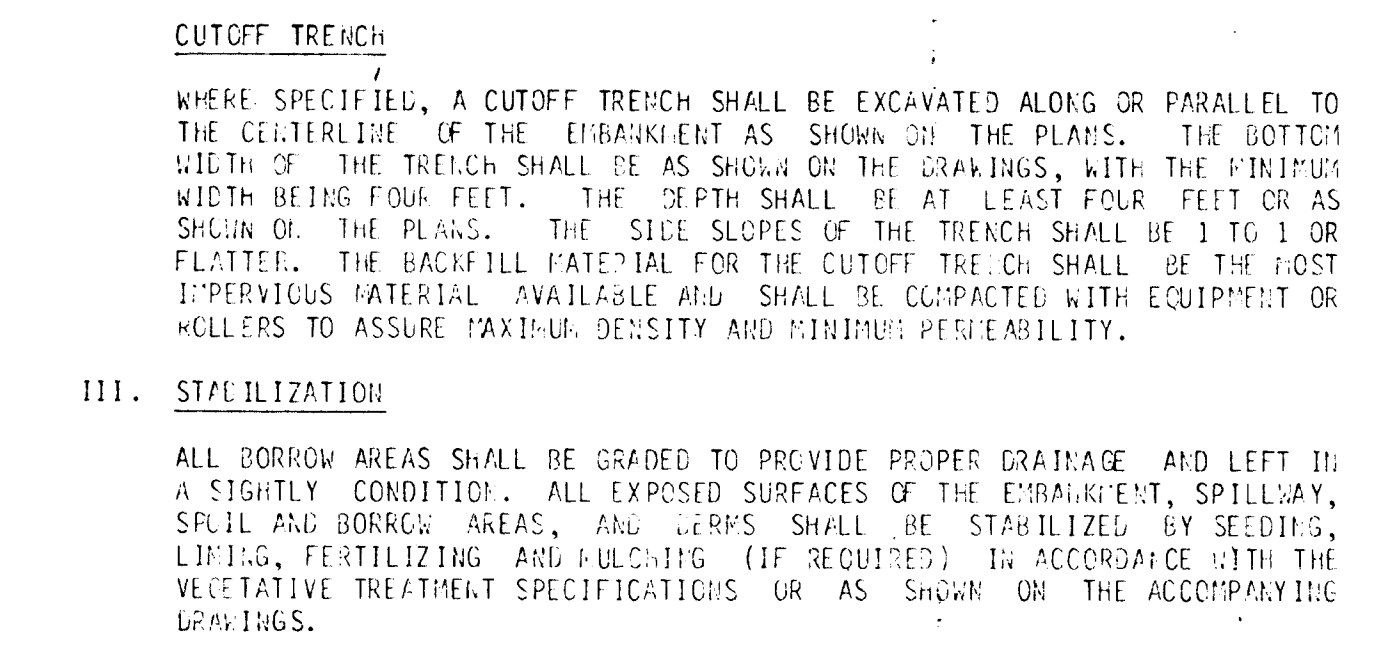
COMPACTION
THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF THE EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TYPED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION CAN BE OBTAINED WITH THE EQUIPMENT USED.

WHERE A MINIMUM REQUIRED DENSITY IS SPECIFIED, EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY AND IS TO BE CERTIFIED BY THE ENGINEER.

CUTOFF TRENCH
WHERE SPECIFIED, A CUTOFF TRENCH SHALL BE EXCAVATED ALONG OR PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE BOTTOM WIDTH OF THE TRENCH SHALL BE AS SHOWN ON THE DRAWINGS, WITH THE FINISH WIDTH BEING FOUR FEET. THE DEPTH SHALL BE AT LEAST FOUR FEET OR AS SHOWN ON THE PLANS. THE SIDE SLOPES OF THE TRENCH SHALL BE 1 TO 1 OR FLATTER. THE BACKFILL MATERIAL FOR THE CUTOFF TRENCH SHALL BE THE MOST IMPERVIOUS MATERIAL AVAILABLE AND SHALL BE COMPACTED WITH EQUIPMENT OR ROLLERS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY.

III. STABILIZATION
ALL BORROW AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, RIPRAP AND BORROW AREAS, AND LEAPS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING (IF REQUIRED) IN ACCORDANCE WITH THE VEGETATIVE TREATMENT SPECIFICATIONS OR AS SHOWN ON THE ACCOMPANYING DRAWINGS.

IV. EROSION AND SEDIMENT CONTROL
CONSTRUCTION OPERATIONS WILL BE CARRIED OUT IN SUCH A MANNER THAT EROSION WILL BE CONTROLLED AND LATER AIR POLLUTION MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION PREVENTION WILL BE FOLLOWED. CONSTRUCTION PLANS SHALL DETAIL EROSION AND SEDIMENT CONTROL MEASURES TO BE EMPLOYED DURING THE CONSTRUCTION PROCESS.



BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

James R. Moxley, Jr. 8-30-87
DEVELOPER: JAMES R. MOXLEY, JR., PRESIDENT SECURITY DEVELOPMENT CORP. DATE

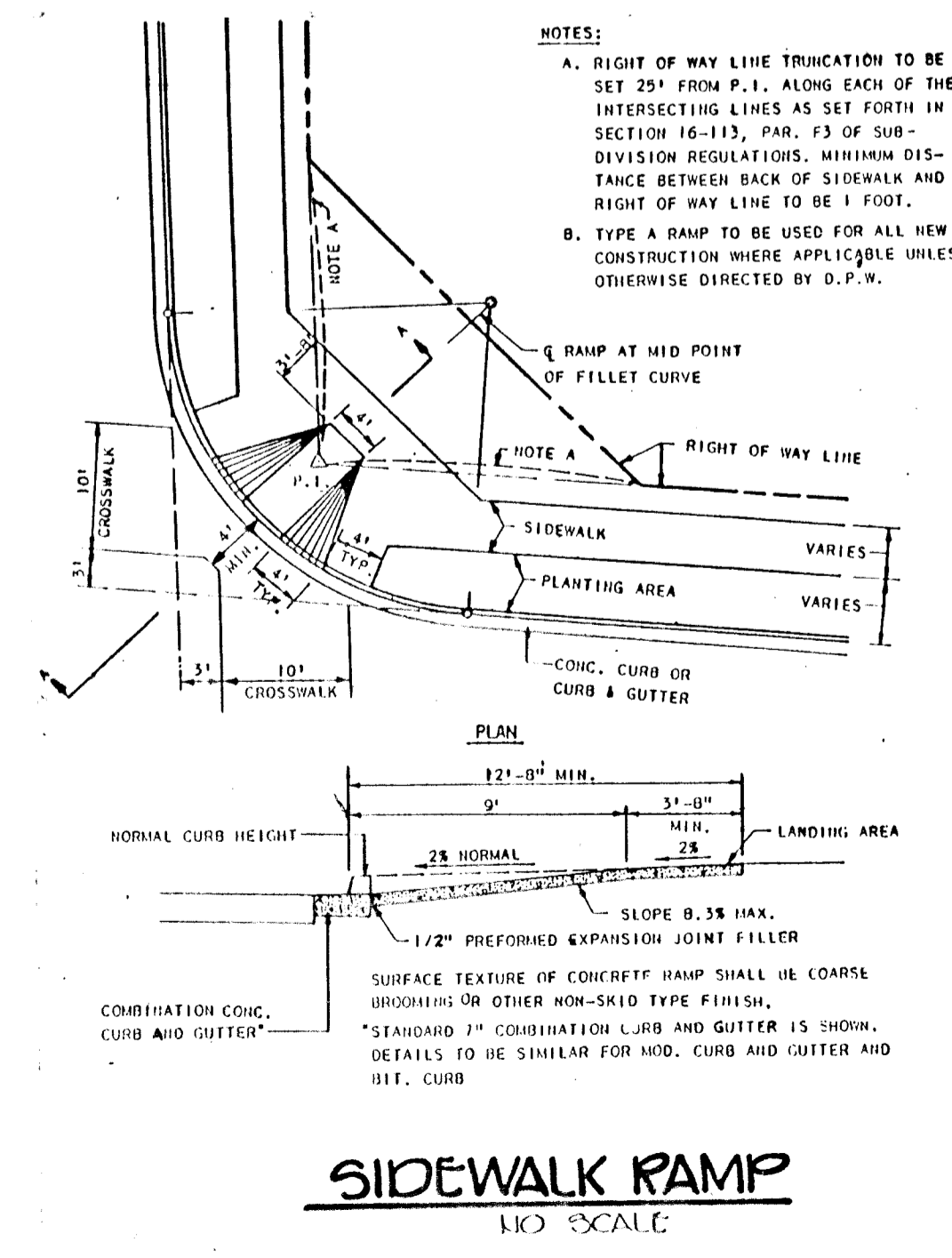
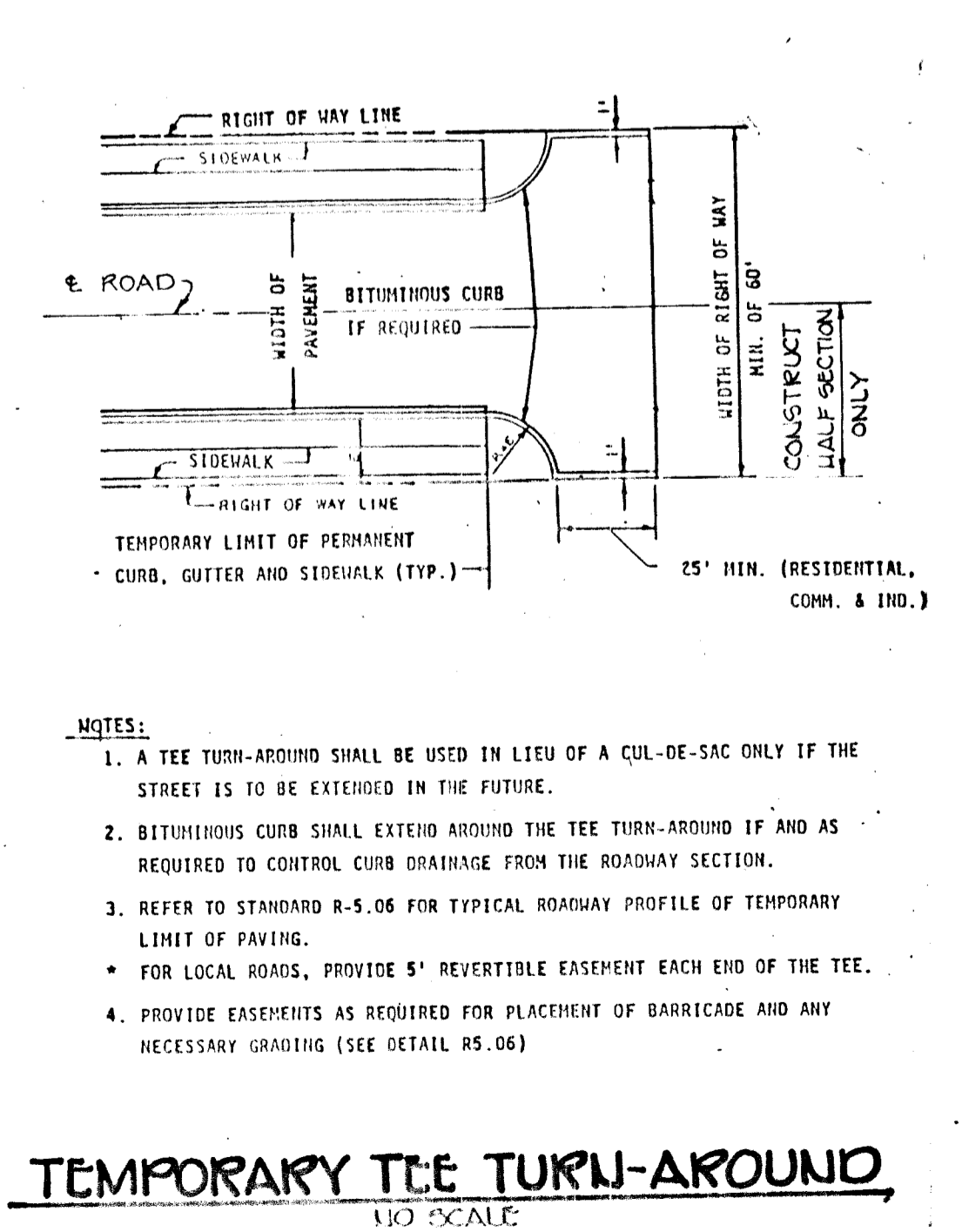
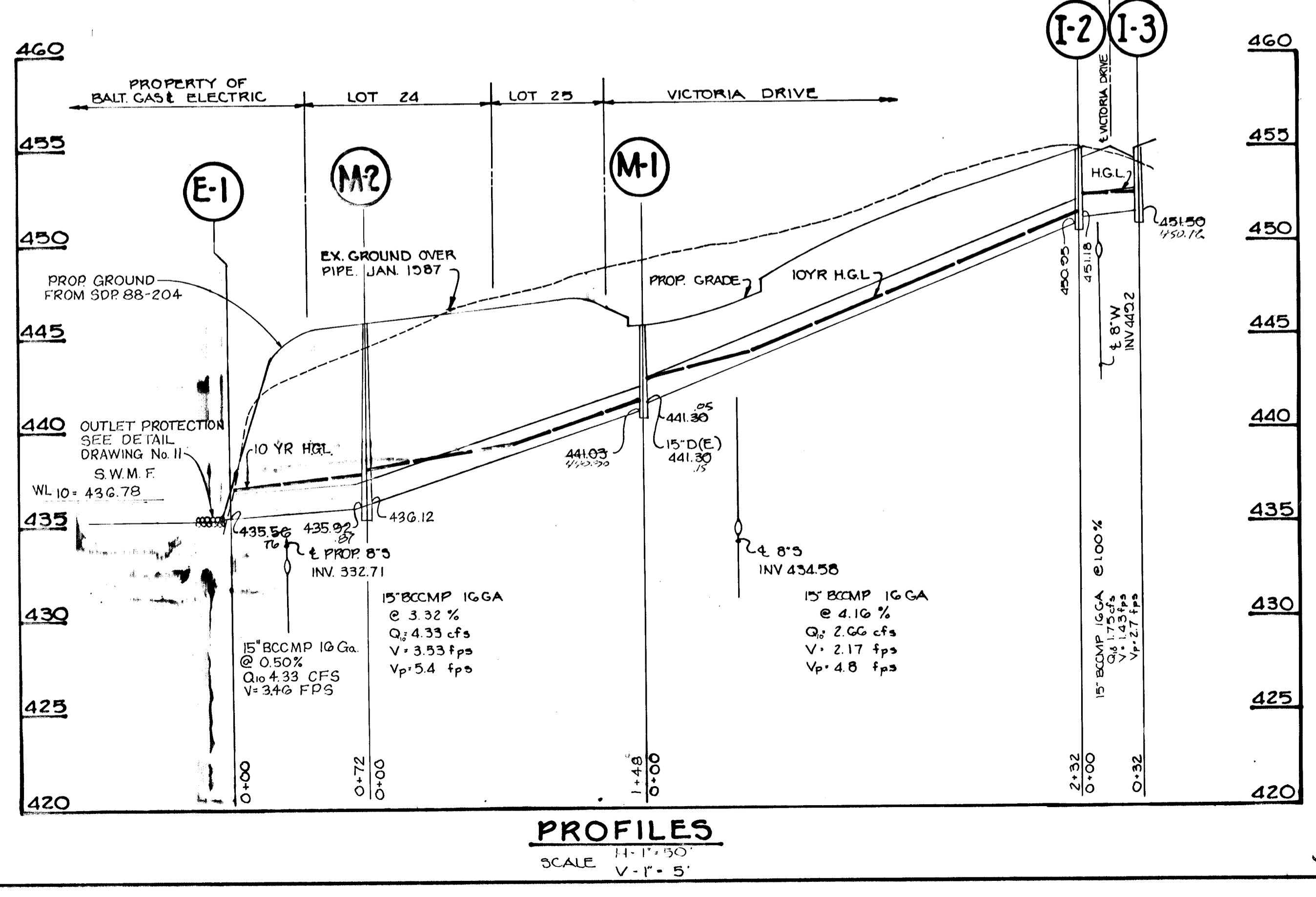
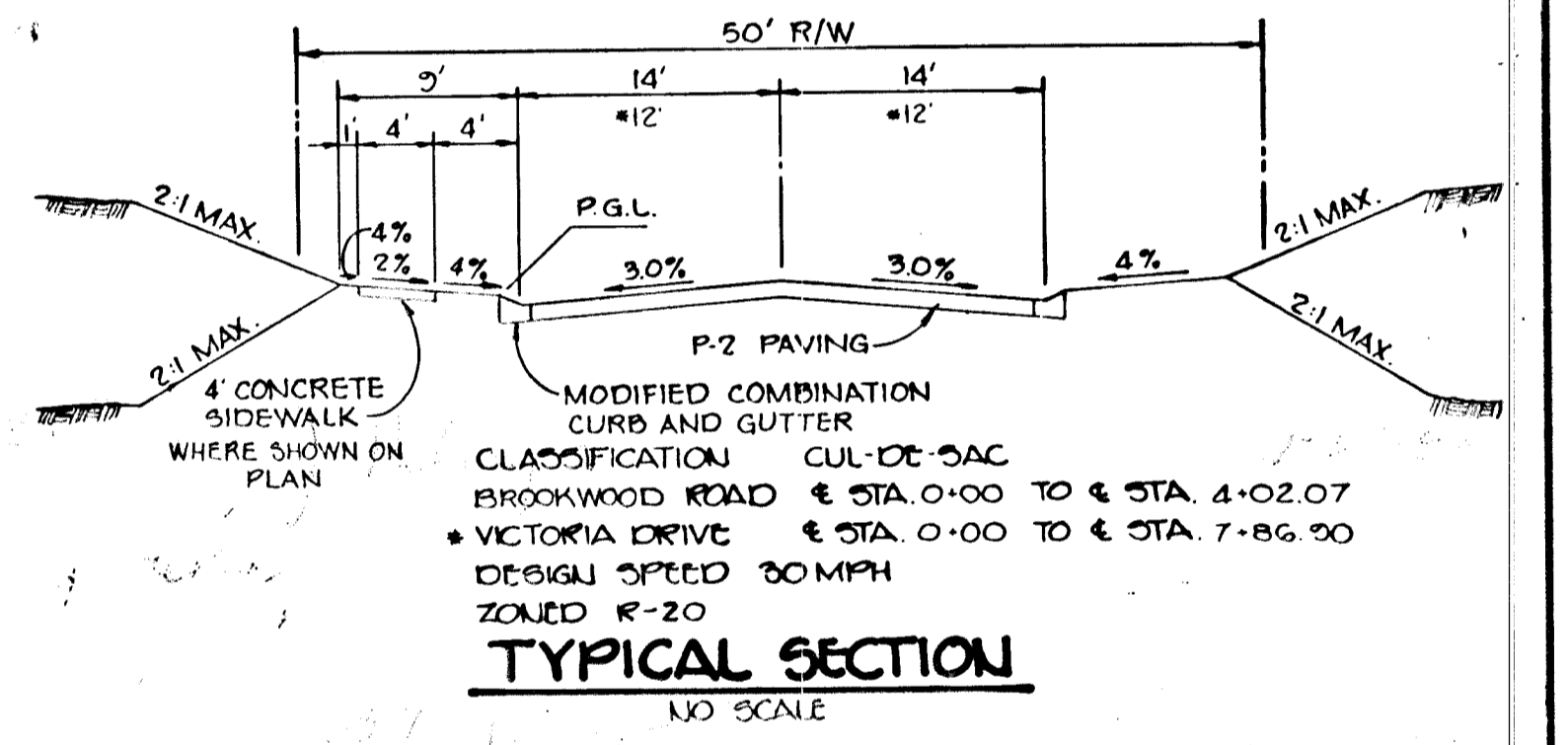
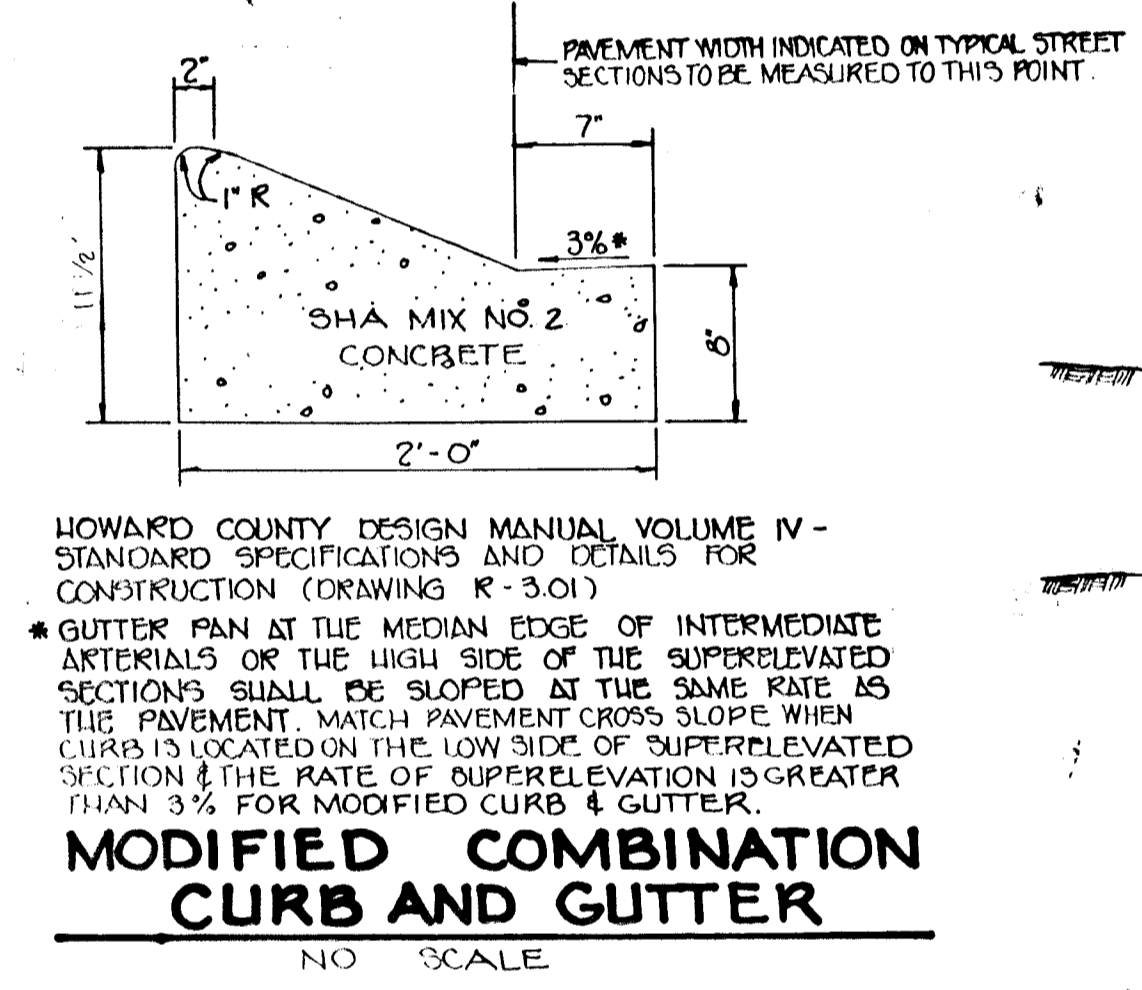
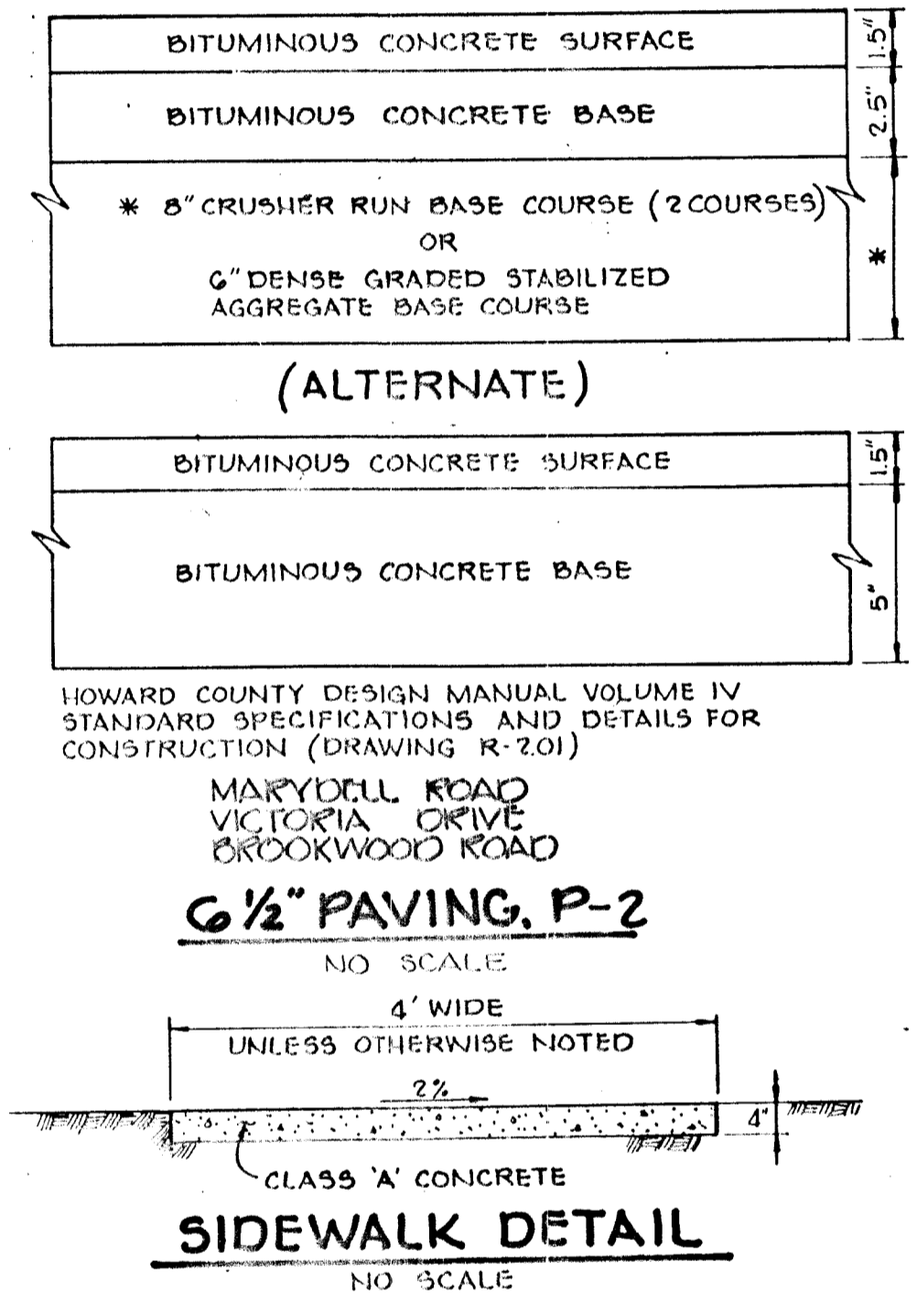
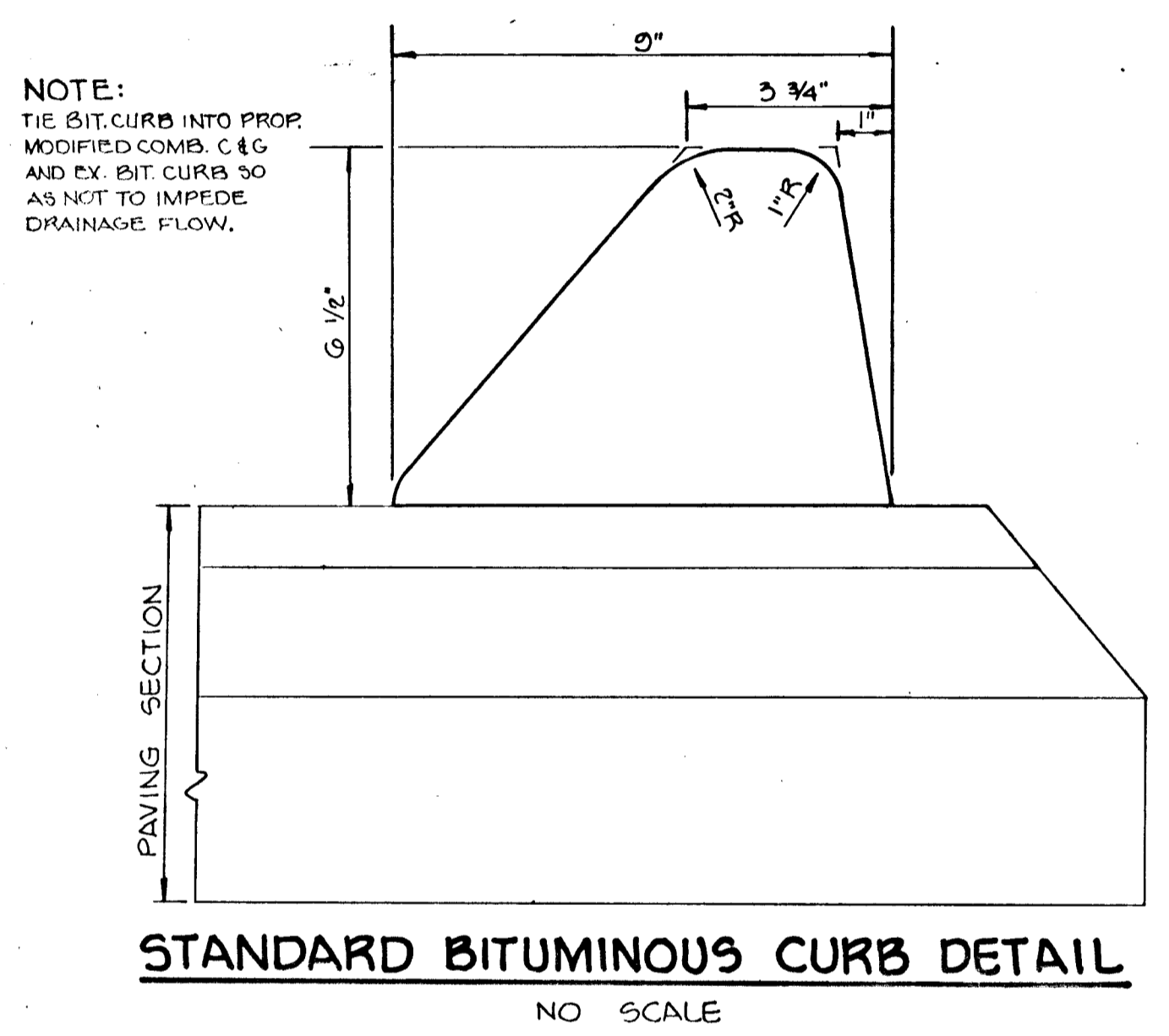
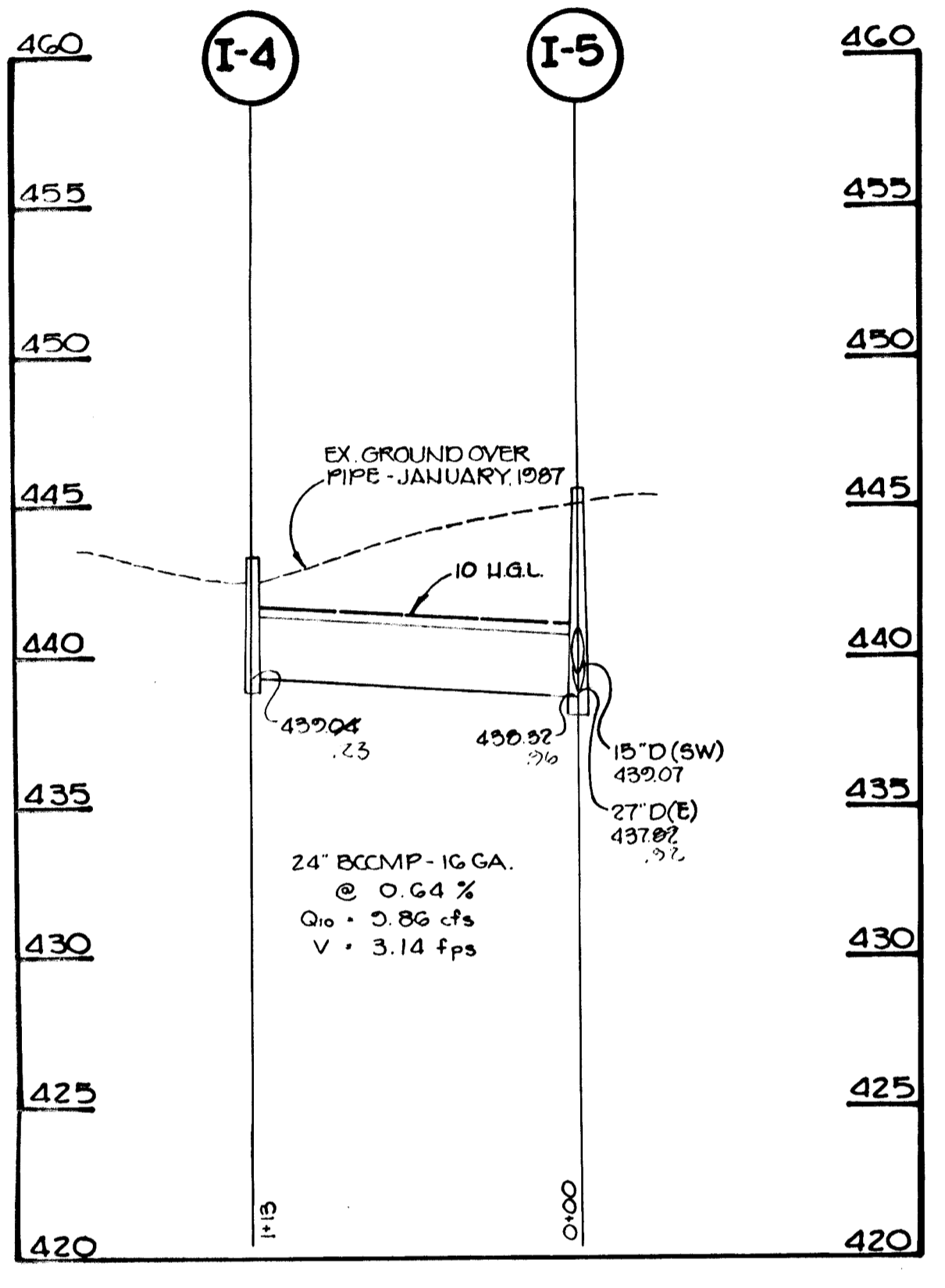
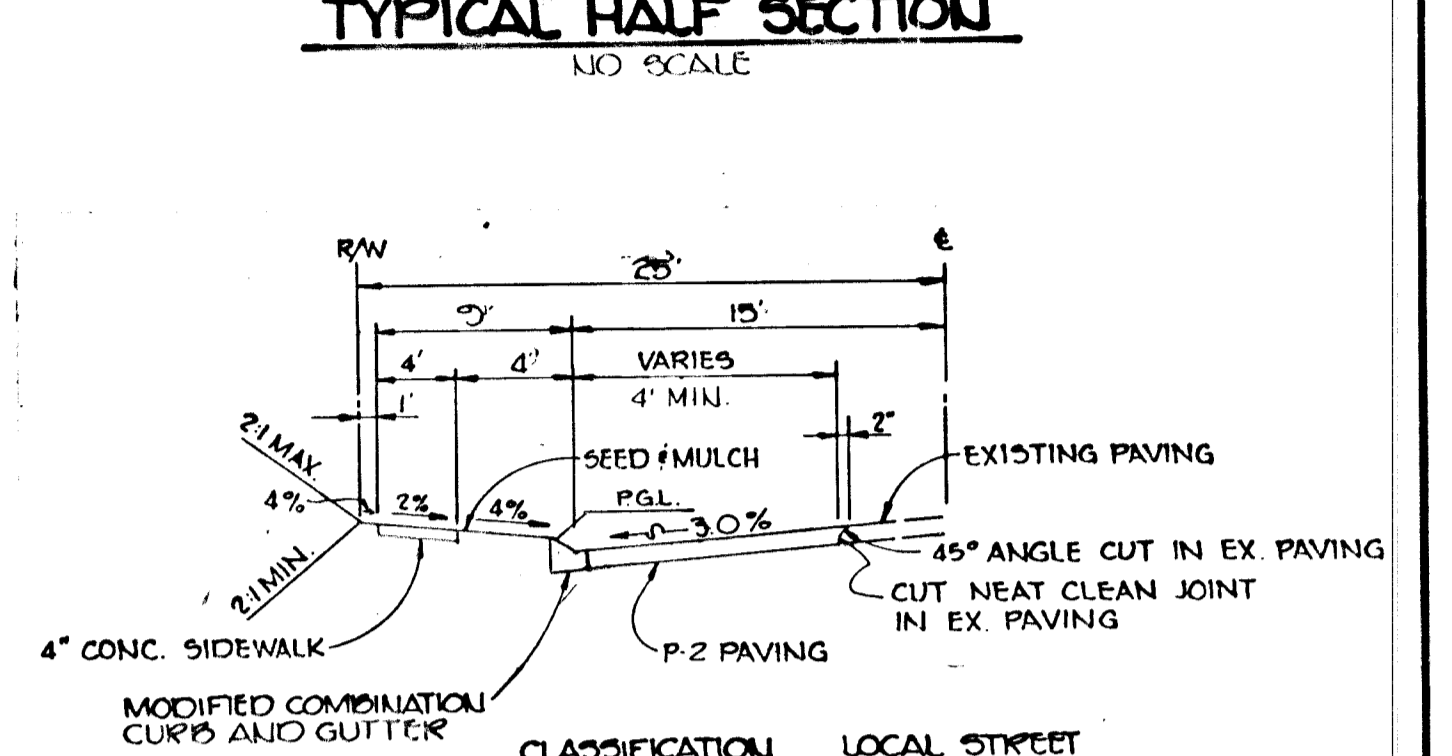
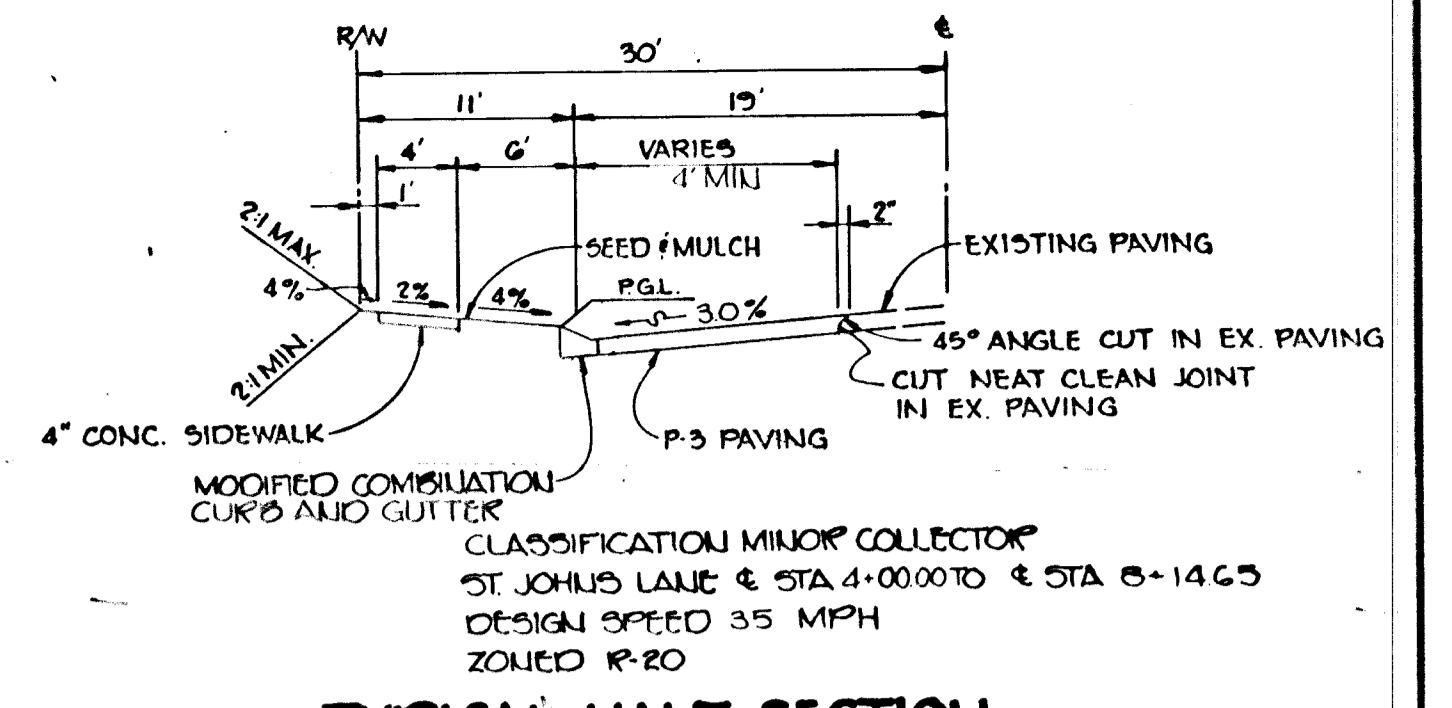
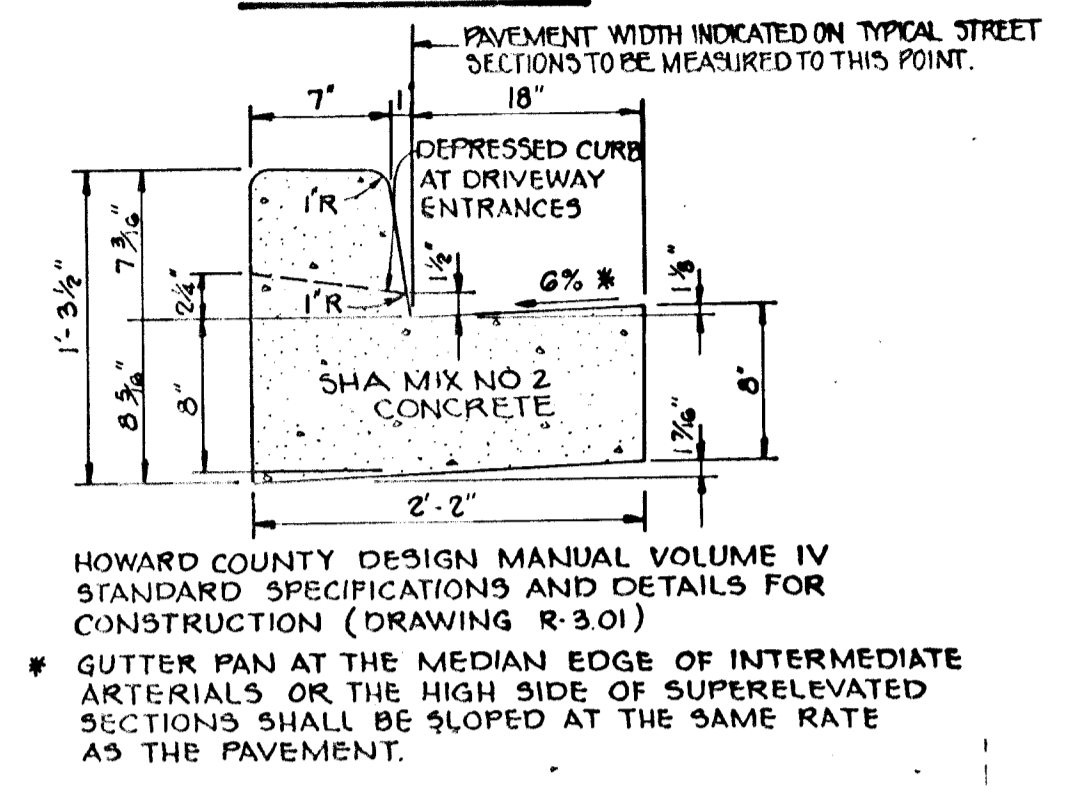
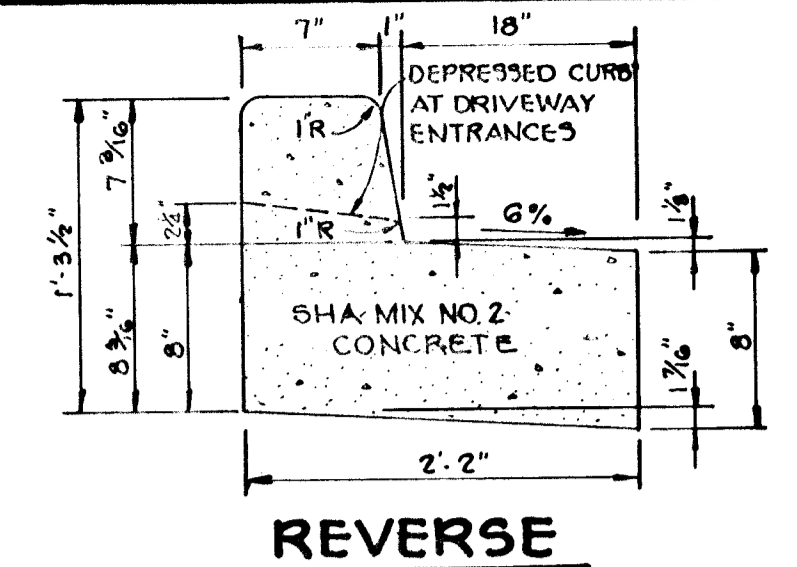
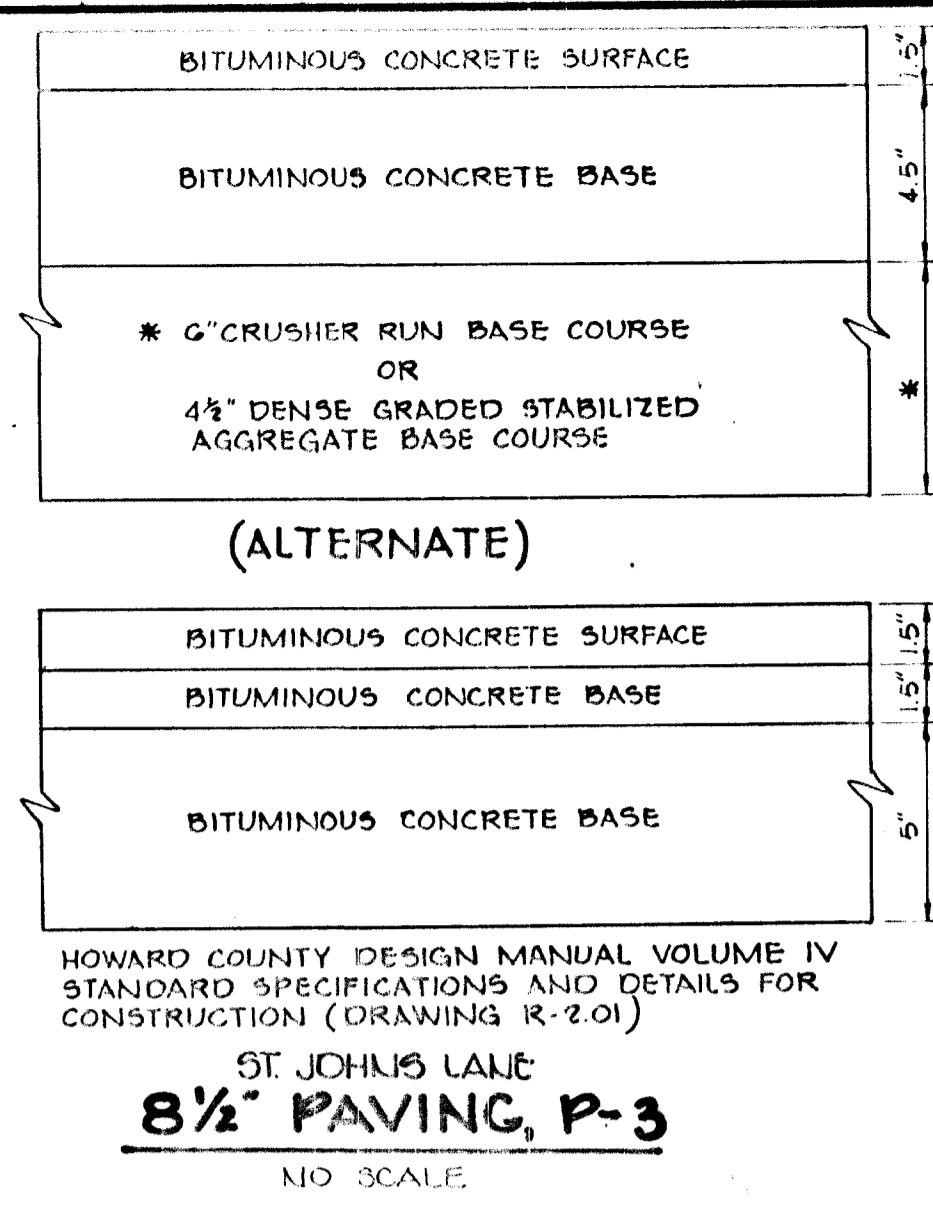
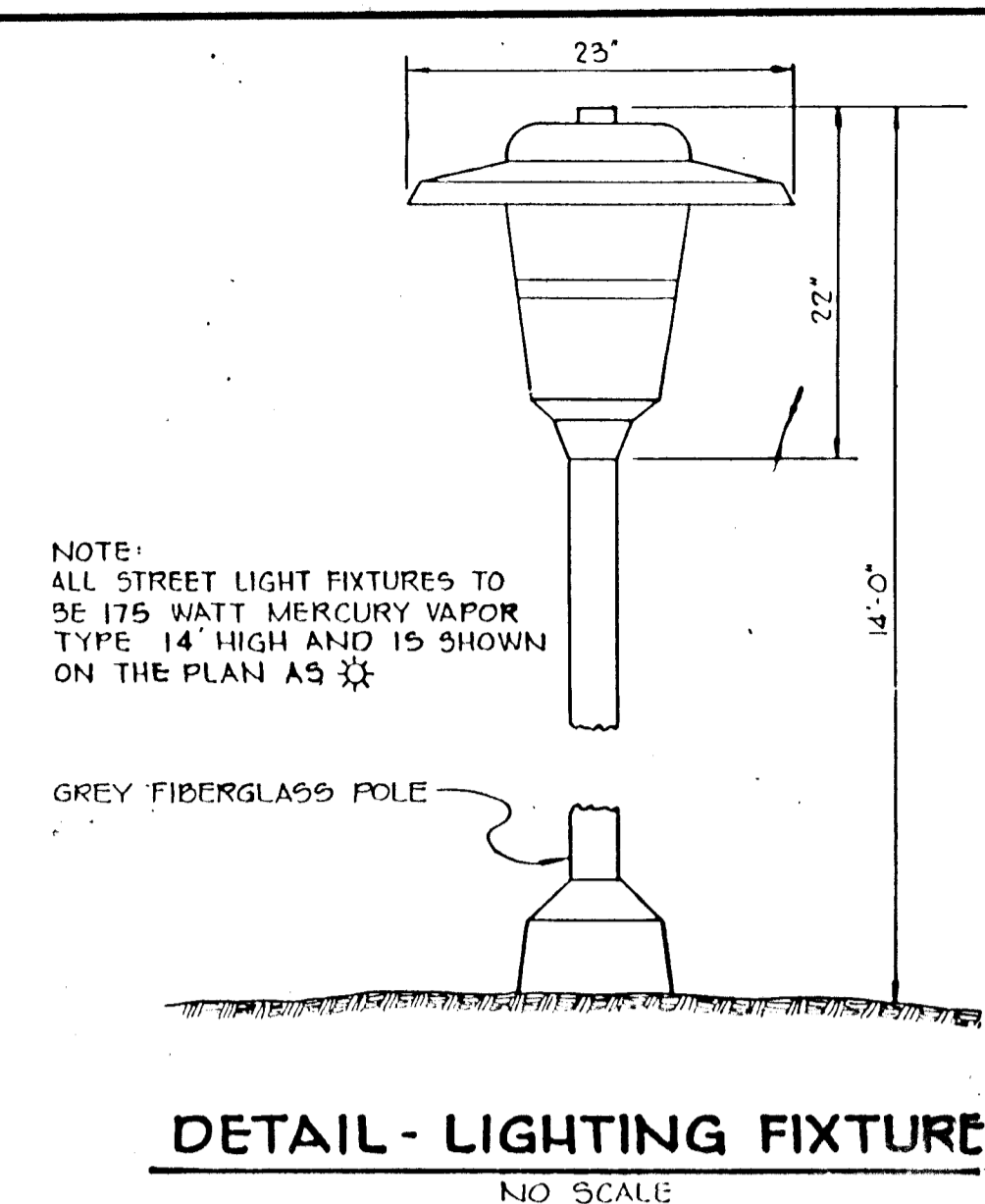
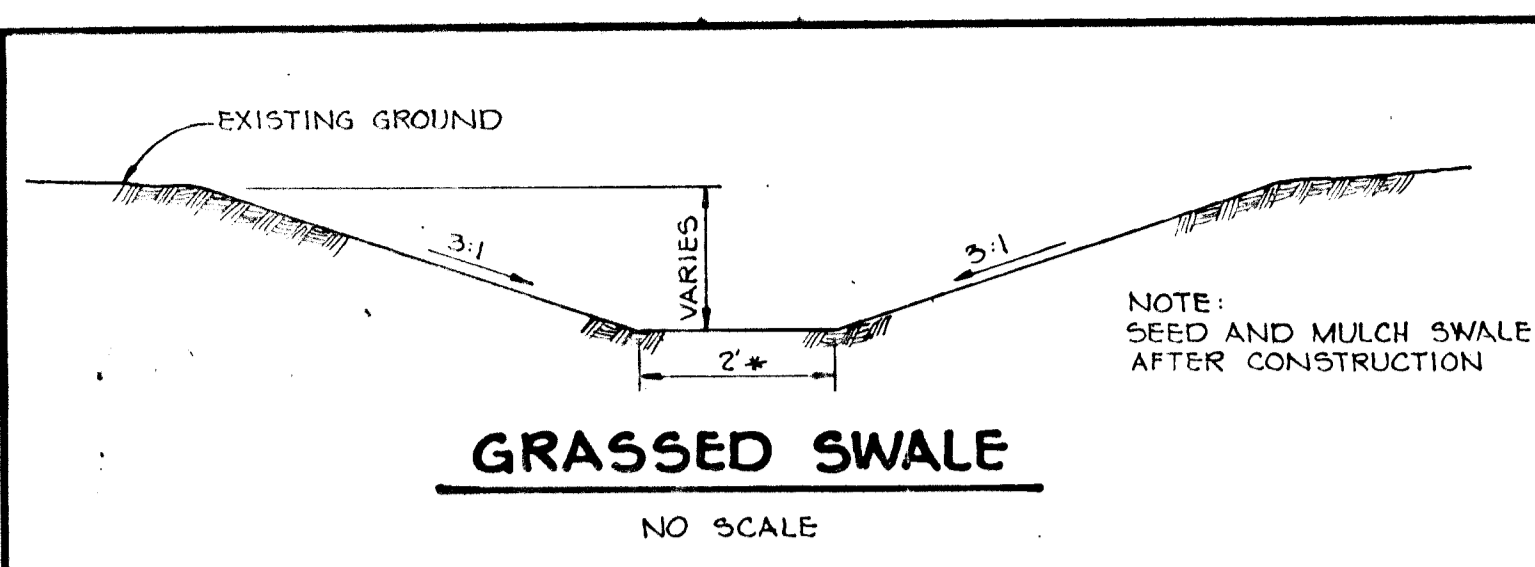
BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

James M. Helm 2-11-88
U.S. SOIL CONSERVATION SERVICE DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
2-22-88
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
3/14/88
DATE

| | | | |
|------------|--|-----------|--|
| OWNER: | SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043 | PROJECT: | BOONE MEADOWS SECTION I, AREA 1 |
| DEVELOPER: | SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043 | LOCATION: | TAX MAP NO. 17, PARCEL 116 2 ND COLLECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE: | STORM WATER MANAGEMENT NOTES AND DETAIL | DATE: | AUG 28, 1987 PAGE 2 OF 1987 |
| DES. DAM.: | DRN JCA | SCALE: | AS SHOWN |

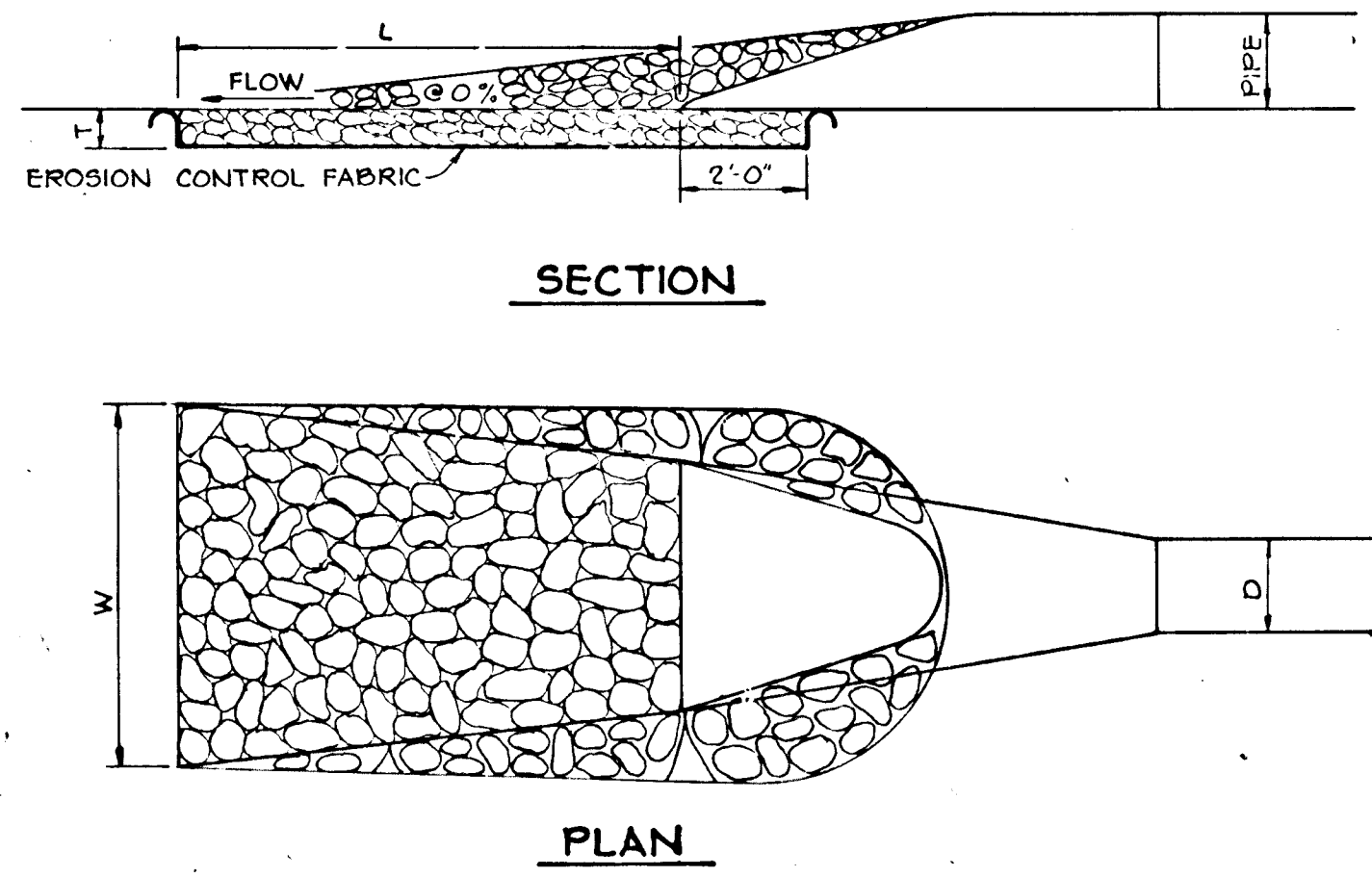


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| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | |
| CHIEF, LAND DEVELOPMENT DIVISION | DATE |
| CHIEF, BUREAU OF HIGHWAYS | DATE |
| CHIEF, BUREAU OF ENGINEERING | DATE |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | |
| CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT | DATE |
| 4-2-90 | REVISE PROFILE |
| NO DATE | REVISION |

| | |
|--|---|
| TRACY, SCHULTE & ASSOCIATES INC. planning • architecture • engineering | |
| 8480 Baltimore National Pike • Poolesville, Maryland 21043 • (301) 465-6105 | |
| OWNER | PROJECT |
| SECURITY DEVELOPMENT CORP. PO. BOX 417 ELLCOTT CITY, MARYLAND 21043 | BOONE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER | LOCATION |
| SECURITY DEVELOPMENT CORP. PO. BOX 417 ELLCOTT CITY, MARYLAND 21043 | TAX MAP NO. 17 PARCEL 116 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE | DATE |
| STORM DRAIN PROFILES AND DETAILS | 5-27-91 |
| DES. RJW | DRN. JCA |
| SCALE AS SHOWN | DRAWING 10 OF 13 |

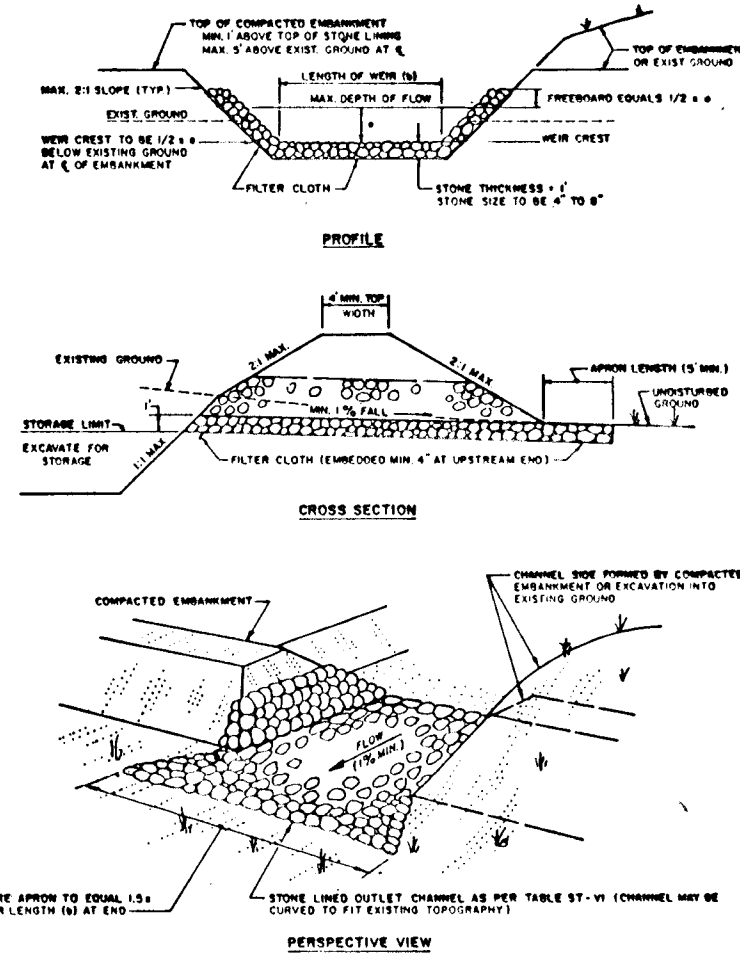
SEQUENCE OF CONSTRUCTION

- DAY 1 1. OBTAIN GRADING PERMIT.
- DAY 2-3 2. CLEAR AND GRUB AREA FOR AND INSTALL STABILIZED CONSTRUCTION ENTRANCE. (SEE)
- DAY 3-7 3. CLEAR AND GRUB REMAINING AREAS FOR SEDIMENT CONTROL DEVICE INSTALLATION.
- DAY 7-12 4. INSTALL SEDIMENT TRAPS 1 & 2 AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES. NOTE THAT ALL SHADES TO BE INSTALLED INITIALLY AS SEDIMENT CONTROL DEVICES.
- DAY 12-14 5. INSTALL REMAINDER OF SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDING NOTES.
- DAY 14-38 6. INSTALL SMF/SEDIMENT TRAPS AS FOLLOWS:
 - A) SMF 'A' TO BE CONSTRUCTED INITIALLY WITH A BOTTOM ELEVATION OF 433.2 WHILE IT IS BEING USED AS A SEDIMENT TRAP AND STABILIZED AS PER PERMANENT SEEDING NOTES
 - B) SMF 'B' TO BE CONSTRUCTED INITIALLY WITH A BOTTOM ELEVATION OF 433.0 WHILE IT IS BEING USED AS A SEDIMENT TRAP AND STABILIZED AS PER PERMANENT SEEDING NOTES.
- DAY 38-45 7. CLEAR AND GRUB REMAINDER OF SITE.
- DAY 45-60 8. GRADE SITE.
- DAY 60-96 9. INSTALL UTILITIES (WATER, SEWER, AND STORM DRAINS).
- DAY 96-99 10. STABILIZE ALL SLOPES IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 99-124 11. COMPLETE ALL ROADWAY CONSTRUCTION AND STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES.
- DAY 124-129 12. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT FROM SMF'S 'A' AND 'B'. EXCAVATE BOTTOMS OF SMF'S 'A' AND 'B' TO ELEVATIONS 432.2 AND 432.0 RESPECTIVELY AS SHOWN ON DRAWING NO. 8 OF 13 AND SPREAD SEDIMENT ACROSS THE BACK OF LOTS 24 THRU 27. REMOVE ALL SEDIMENT CONTROL DEVICES AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDING NOTES.

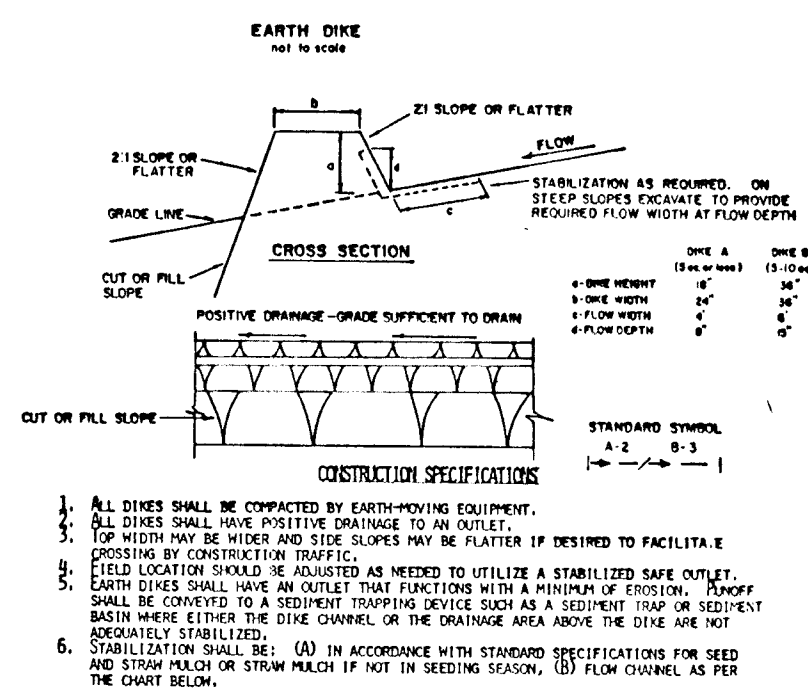


| STRUCTURE | d - 50 | LENGTH (L) | WIDTH (W) | THICKNESS (T) |
|-----------|--------|------------|-----------|---------------|
| E-1 | 4" | 6' | 7.25' | 6" |
| E-2 | 6" | 10' | 12.5' | 6" |

OUTLET PROTECTION DETAIL
NO SCALE

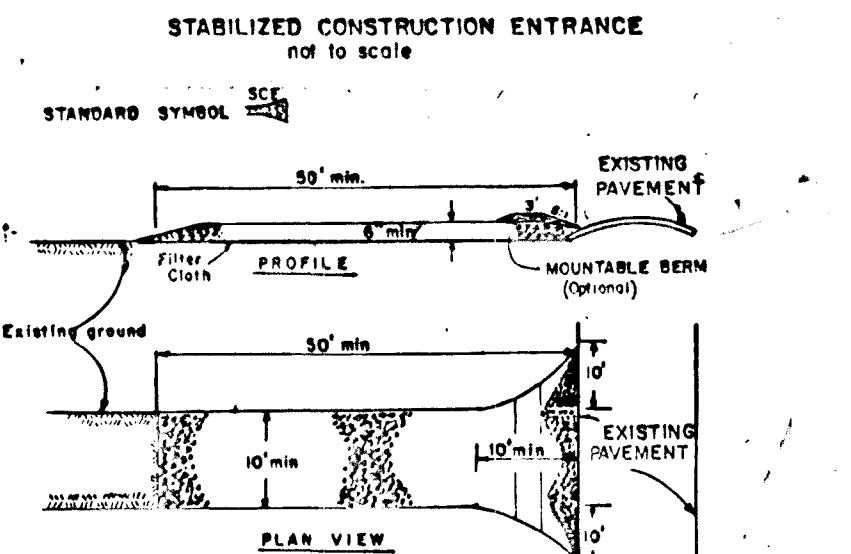


RIPRAP OUTLET SEDIMENT TRAP
NO SCALE



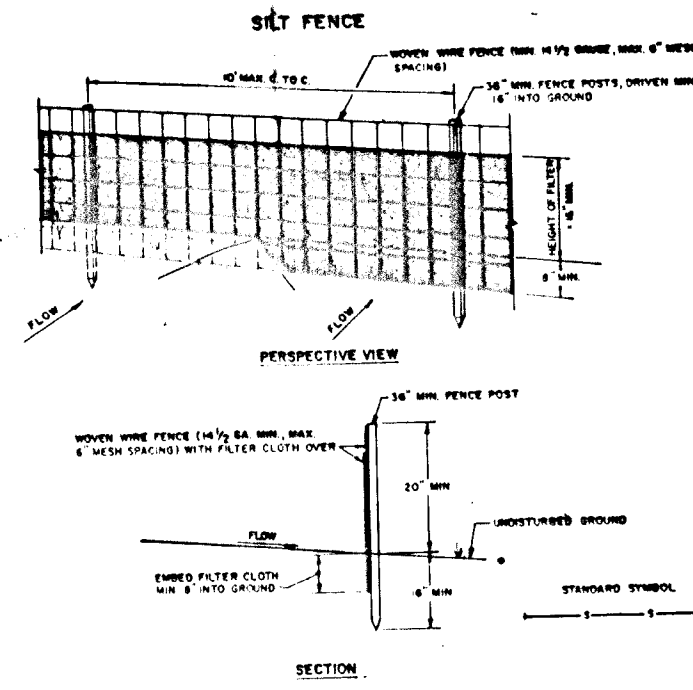
| TYPE OF TREATMENT | CHANNEL SIZE | DIKE A | DIKE B |
|-------------------|--------------|----------------------------|----------------------|
| 1 | 5-3.0' | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1-5.0' | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 3 | 5.1-8.0' | SEED WITH JUTE OR SOY TINE | LINED RIP-RAP 8-8" |
| 4 | 8.1-200' | LINED RIP-RAP 8-8" | LINED RIP-RAP 8-8" |

EARTH DIKE DETAIL
NO SCALE



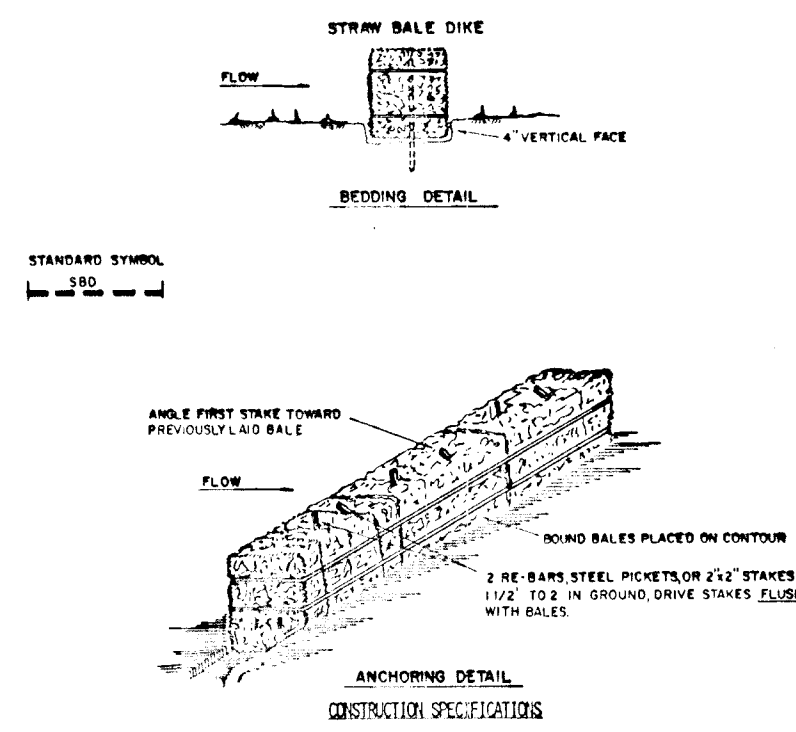
- CONSTRUCTION SPECIFICATIONS**
- Stone Size - Use 2" stone, or recycled concrete equivalent.
 - Length - As required, but not less than 50 feet (except on a single reach area lot where a 25 foot minimum length would apply).
 - Thickness - Not less than 18" inches.
 - Width - Not less than 18" foot minimum, but not less than the full width at points where ingress or egress occurs.
 - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a slope facing residence lot.
 - Surface Water - All surface water flowing or directed toward construction entrance shall be piped across the entrance. If piping is impractical, a mounded beam with 3:1 slope will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way. This may require periodic mowing with additional work as conditions demand and repair and/or cleanup of any measure used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Areas 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 trap pipe device.
 - Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE



- CONSTRUCTION NOTES FOR PREPARED SILT FENCE**
- MONITOR SILT FENCE TO BE INSTALLED SECURELY TO REMAIN PROPER WITH TIES OR STAPLES.
 - FILTER CLOTH TO BE INSTALLED SECURELY TO MONITOR FENCE WITH TIES OR STAPLES EVERY 20' AT TOP AND MID SECTION.
 - MONITOR AND MAINTAIN FILTER CLOTH TO BE INSTALLED SECURELY TO MONITOR FENCE WITH TIES OR STAPLES EVERY 20' AT TOP AND MID SECTION.
 - MAINTENANCE SHALL BE PROVIDED AS NECESSARY TO MAINTAIN FENCE IN BEST CONDITION AT ALL TIMES.

SILT FENCE
NO SCALE



- CONSTRUCTION SPECIFICATIONS**
- Bales shall be placed at the top of a slope or on the contour and in a row with the bottom edge resting on the ground surface.
 - Each bale shall be oriented in the soil a minimum of (90) degrees, and in a row with the bottom edge resting on the ground surface.
 - Bales shall be securely anchored in place by either two stakes or re-bar driven through the bale. The first stake in each bale shall be driven through the bale and the second stake shall be driven through the bale.
 - Inspection shall be provided and repair replacement shall be made promptly as needed.
 - Bales shall be removed when they have served their usefulness so as not to block or divert storm flow drainage.

STRAW BALE DIKE
NO SCALE

- SEEDING CONTROL NOTES**
- A minimum of 24 hours notice must be given to the CARROLL COUNTY WATER RESOURCES ADMINISTRATION PRIOR TO THE START OF ANY CONSTRUCTION.
 - 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.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION (SPECIFIED ON PLANS) SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROL'S, DIKES, SWALES, DITCHES, PERIMETER SHOES AND ALL SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND FOURTEEN DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS OF THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/PASSEES SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE CARROLL COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - 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. 211.300 ETC.), TEMPORARY SEEDINGS (SEC. 201 AND 202), AND MULCHING (SEC. 211.300 ETC.).
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMITS FOR THEIR REMOVAL HAVE BEEN OBTAINED FROM THE CARROLL COUNTY WATER RESOURCES ADMINISTRATION INSPECTOR.

STABILIZED CONSTRUCTION ENTRANCE
NO SCALE

PERMANENT SEEDING PREPARATION

- SEEDING PREPARATION:** LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:** IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:
- PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 1b/1000 lb) AND 600 lbs PER ACRE 10-10-10 FERTILIZER (18 1b/1000 lb) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 150 lbs PER ACRE 30-0-0 UREA/NITROGEN FERTILIZER (18 1b/1000 lb).
 - ACCEPTABLE - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 1b/1000 lb) AND 1000 lbs PER ACRE 10-10-10 FERTILIZER (23 1b/1000 lb) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

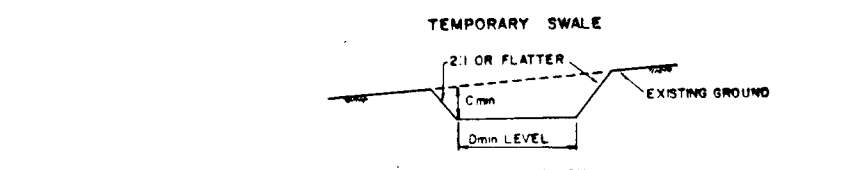
- SEEDING:** FOR THE PERIODS MARCH 1 THRU APRIL 30 AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 lbs PER ACRE (14 1b/1000 lb) OF KENTUCKY 31 TALL FESCUE FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 lbs OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 1b/1000 lb) OF SEEDING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOY TINE WITH 60 lbs PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELLS ANCHORED STRAW.

- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (170 TO 240 1b/1000 lb) OF UNDIRECTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (15 1b/1000 lb) OF SPREADER APPLIED ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (18 1b/1000 lb) FOR ANCHORING.
- MAINTENANCE:** INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RE-SEEDINGS.

TEMPORARY SEEDING PREPARATION

- 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, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SEEDING:** FOR THE PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 2 1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 1b/1000 lb). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF SEEDING LOVEGRASS (0.5 1b/1000 lb). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELLS ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOY.
- MULCHING:** APPLY 1 1/2 TO 2 TONS PER ACRE (170 TO 240 1b/1000 lb) OF UNDIRECTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (15 1b/1000 lb) OF SPREADER APPLIED ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (18 1b/1000 lb) FOR ANCHORING.

REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, FOR "WATER AND WETLANDS" AND "OVERSEEDS".



- CONSTRUCTION SPECIFICATIONS**
- All temporary swales shall have unimproved positive grade to an outlet.
 - Disturbed runoff from a disturbed area shall be conveyed to a sediment trapping structure.
 - Disturbed runoff from an undisturbed area shall outlet directly into an undisturbed stabilized area at non-erosive velocity.
 - All three swale slopes, construction, and other construction materials shall be reviewed and approved by the County Engineer before construction of the swale.
 - The swale shall be excavated or shaped to longitudinal and cross section as required to meet the criteria specified herein and be free of sharp projections or other irregularities which might impede storm flow.
 - Fills shall be compacted by earth moving equipment.
 - All earth remove and not needed on construction shall be placed so that it will not interfere with the functioning of the swale.
 - Stabilization shall be as per the chart below:

| TYPE OF TREATMENT | CHANNEL SIZE | DIKE A | DIKE B |
|-------------------|--------------|----------------------------|----------------------|
| 1 | 0.5-3.0' | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 2 | 3.1-5.0' | SEED AND STRAW MULCH | SEED AND STRAW MULCH |
| 3 | 5.1-8.0' | SEED WITH JUTE OR SOY TINE | LINED RIP-RAP 8-8" |
| 4 | 8.1-200' | LINED RIP-RAP 8-8" | LINED RIP-RAP 8-8" |

TEMPORARY SWALE
NO SCALE

BY THE DEVELOPER:
"I CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, 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 WILL PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

James K. Moxley, Jr.
DEVELOPER: JAMES K. MOXLEY, JR. PRES. SEC. DEV. CORP. 8-30-87
DATE

BY THE ENGINEER:
"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

James K. Moxley
ENGINEER: JAMES K. MOXLEY, JR. P.E. 8-30-87
DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

James M. Helm
U.S. SOIL CONSERVATION SERVICE 2-11-88
DATE

THESE PLANS FOR SMALL POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert W. Zechin
HOWARD S.C.D. 2-11-88
DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
William K. ... 2-23-87
DATE

CHIEF, LAND DEVELOPMENT DIVISION
William W. ... 2/24/88
DATE

CHIEF, BUREAU OF HIGHWAYS
William W. ... 2-25-88
DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Robert ... 3/14/88
DATE

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

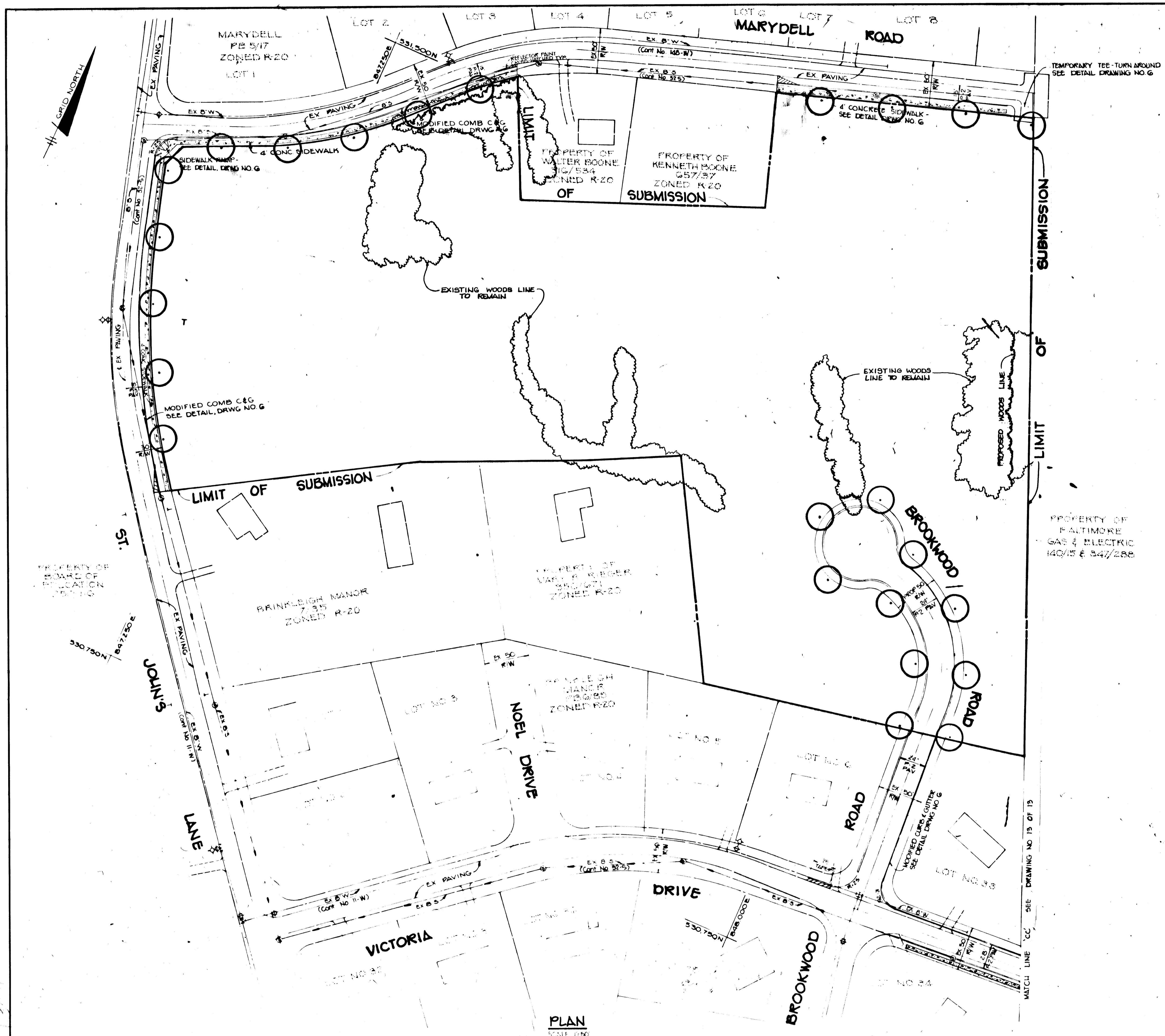
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planning • architecture • engineering

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

James K. Moxley

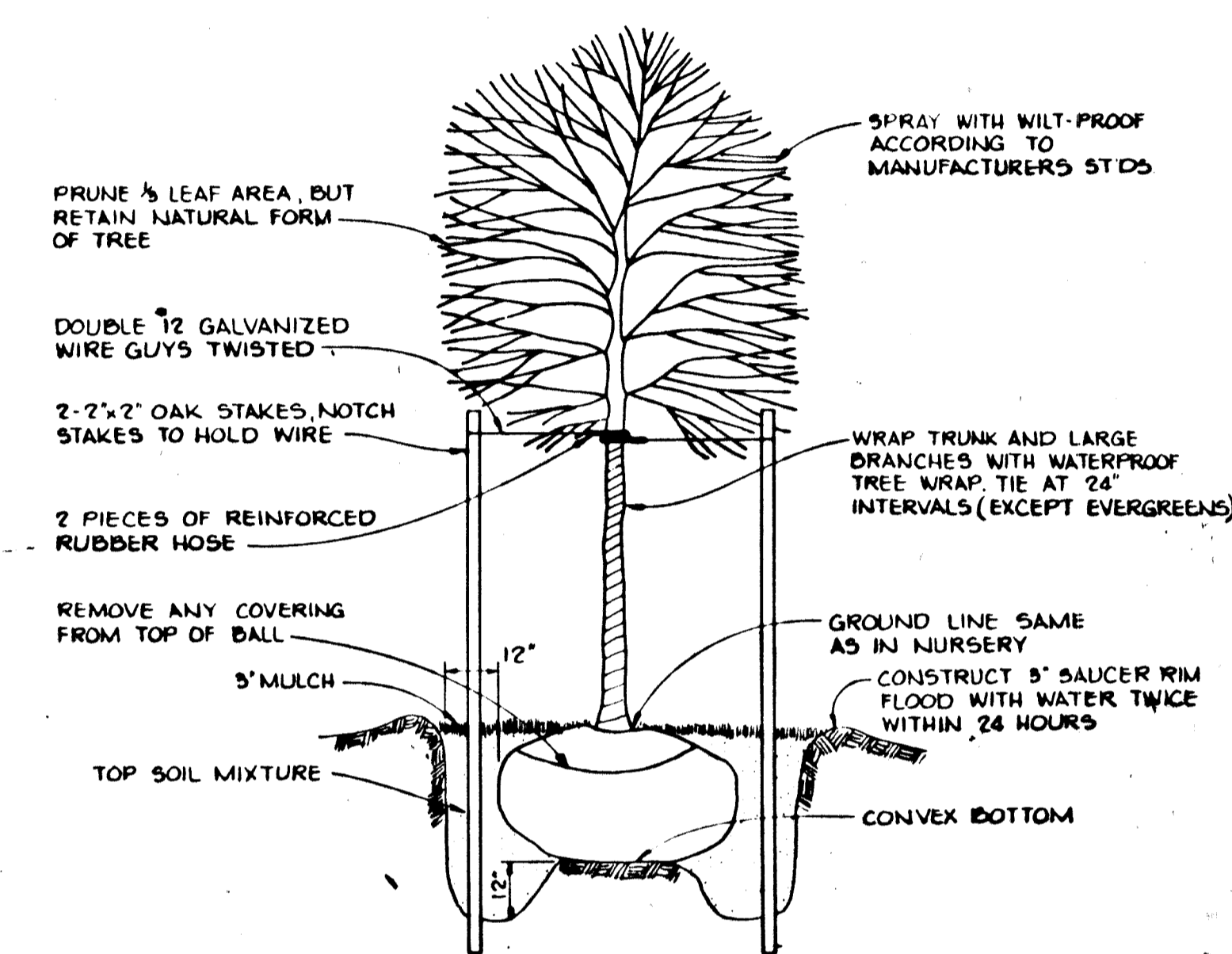
| | |
|--|--|
| OWNER SECURITY DEVELOPMENT CORP P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 | PROJECT BOONE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER SECURITY DEVELOPMENT CORP P.O. BOX 417 ELLICOTT CITY, MARYLAND 21043 | LOCATION TAX MAP NO. 17, PARCEL 11G 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| DES. RJW | DRN SAB |
| DATE AUG 28, 1987 DEC. 2, 1987 | TITLE SEDIMENT CONTROL NOTES AND DETAILS PROJECT NO. 8751R.D |
| SCALE AS SHOWN | DRAWING 11 OF 13 |

AS BUILT FEB 10 1992



| PLANT LIST | | | |
|------------|----------|---|-----------------------------|
| SYMBOL | QUANTITY | NAME | REMARKS |
| ○ | 44 | ALL STREET TREE VARIETIES TO BE TAKEN FROM THE APPROVED DECIDUOUS SHADE TREE LIST | 2 1/2 Min Cal B1B Full Head |
| ☼ | 54 | PINUS STROBUS White Pine | 5'-6' Unsheared |
| TOTAL | | | |

| | | | | | |
|----------------|---|-----------------------------|------|---|-------|
| 112382 | - | EX LENGTH OF EX ROADS | + 80 | = | 14.05 |
| 78721 | - | EX LENGTH OF PROPOSED ROADS | + 40 | = | 19.68 |
| 514.18 LF | - | LENGTH OF LINEAR PROFILES | - 80 | = | 6.43 |
| TOTAL REQUIRED | | | | | 40.16 |
| TOTAL PROVIDED | | | | | 44 |



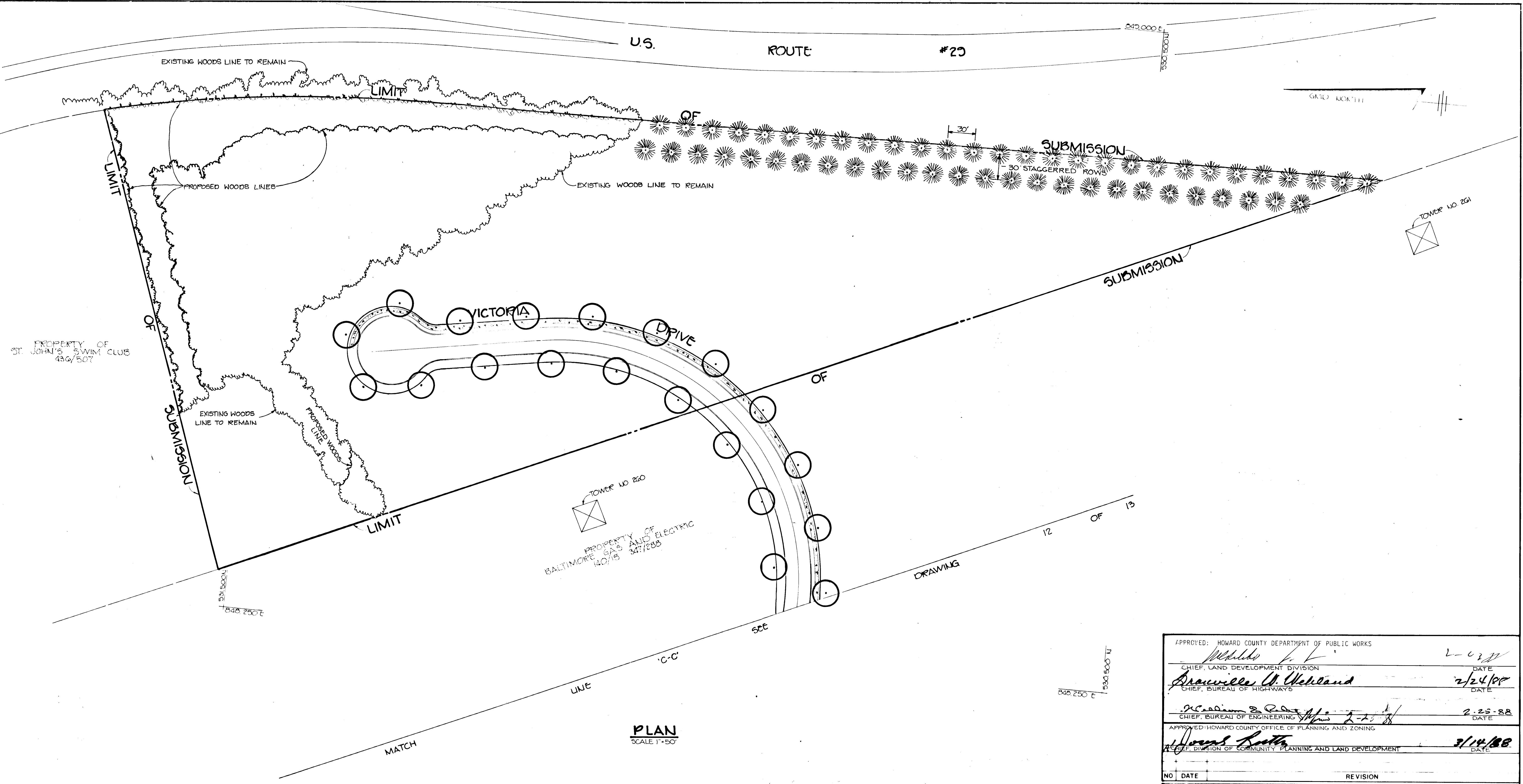
TREE PLANTING DETAIL
NO SCALE

| | |
|--|----------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | |
| <i>[Signature]</i> | 2-23-88 |
| CHIEF, LAND DEVELOPMENT DIVISION | DATE |
| <i>[Signature]</i> | 2/24/88 |
| CHIEF, BUREAU OF HIGHWAYS | DATE |
| <i>[Signature]</i> | 2-22-88 |
| CHIEF, BUREAU OF ENGINEERING | DATE |
| <i>[Signature]</i> | 3/14/88 |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | |
| <i>[Signature]</i> | |
| CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT | |
| NO. DATE | REVISION |

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| | |
|--|---|
| OWNER SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043 | PROJECT BOONE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELLCOTT CITY, MARYLAND 21043 | LOCATION TAX MAP NO. 17 PARCEL 116 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE STREET TREE PLAN | |
| DATE AUG 20, 1987 DEC 2, 1987 | PROJECT NO. 0751 |
| DES. RJW DRN. JCA / KMN | SCALE 1"=50' DRAWING 12 OF 13 |



PLAN
SCALE 1"=50'

| | |
|--|----------|
| APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS | |
| <i>W. H. ...</i> | 2-23-88 |
| CHIEF, LAND DEVELOPMENT DIVISION | DATE |
| <i>Araville W. ...</i> | 2/24/88 |
| CHIEF, BUREAU OF HIGHWAYS | DATE |
| <i>McAdams R. ...</i> | 2-25-88 |
| CHIEF, BUREAU OF ENGINEERING | DATE |
| APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING | |
| <i>James ...</i> | 3/14/88 |
| CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT | DATE |
| NO | DATE |
| | REVISION |

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James H. Tracy

| | |
|---|--|
| OWNER | PROJECT |
| SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | BOONE MEADOWS SECTION 1, AREA 1 |
| DEVELOPER | LOCATION |
| SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043 | TAX MAP NO. 17 PARCEL 116 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND |
| TITLE | |
| STREET TREE PLAN | |
| DES | SCALE |
| RJW | 1" = 50' |
| DRN JCA / CRS | DRAWING 13 OF 13 |
| | DATE |
| | AUG 28, 1987 |
| | PROJECT NO 8751 RSD |
| | DATE |
| | OCT. 2, 1987 |

F-88-48