

SHEET INDEX	
NO	DESCRIPTION
1.	TITLE SHEET
2.	PLAN OF WHEATFIELD WAY, CEDAR POST, SICKLEBAR WAY AND ROLLING MEADOWS
3.	PLAN OF MD ROUTE 103 - LONG GATE PARKWAY INTERSECTION
4.	ROAD PROFILES
5.	ROAD PROFILES
6.	DETAILS AND DRAINAGE AREA MAP
7.	GRADING AND SEDIMENT CONTROL PLAN
8.	GRADING AND SEDIMENT CONTROL PLAN, STORM DRAIN PROFILES, NOTES AND DETAILS
9.	STORMWATER MANAGEMENT PROFILE AND NOTES
10.	PLANTING PLAN

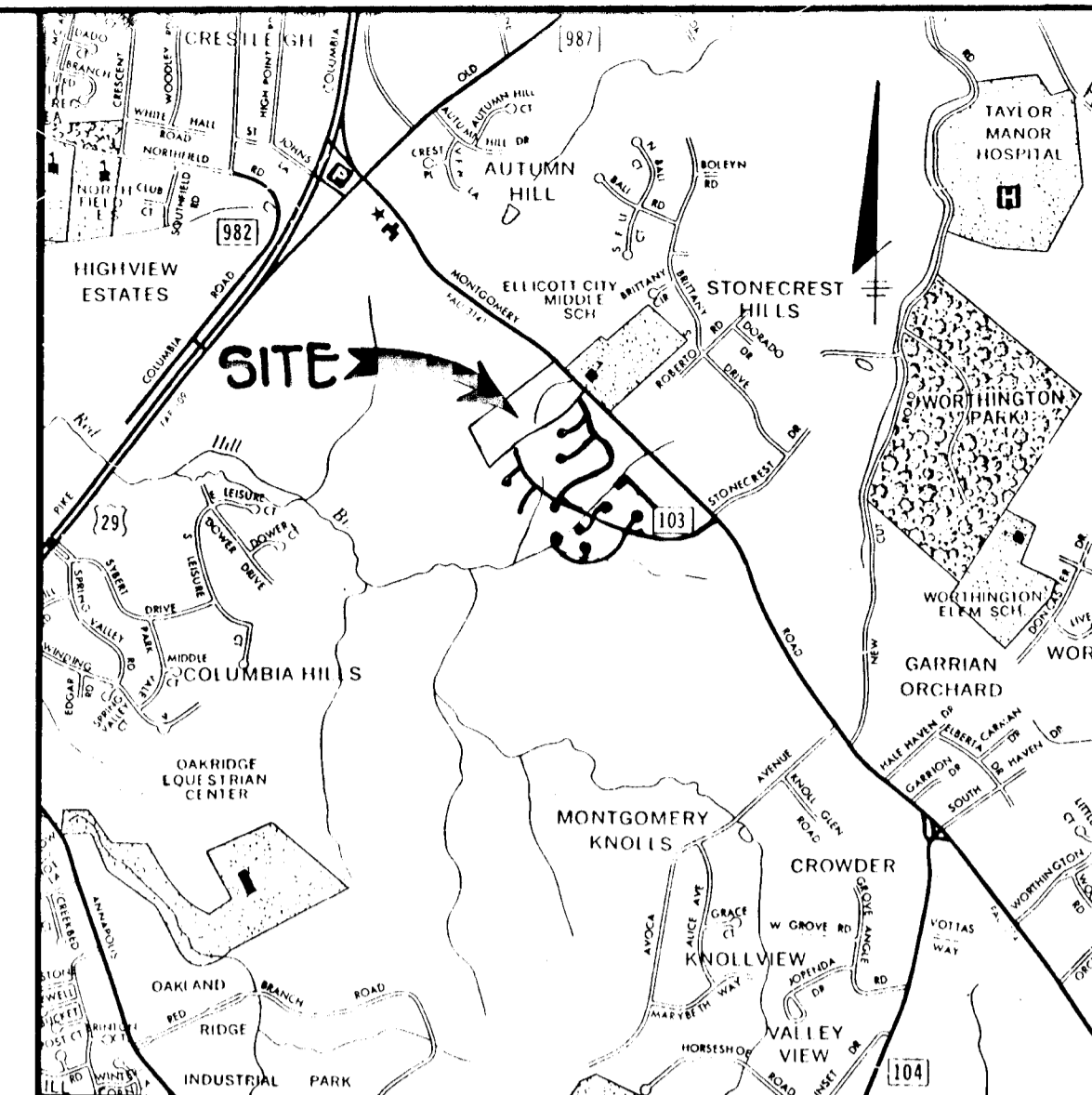
ROADWAY, STORM DRAIN & STORM WATER MANAGEMENT

LONG GATE

SECTION 3, AREA I

2ND ELECTION DISTRICT

HOWARD COUNTY, MARYLAND



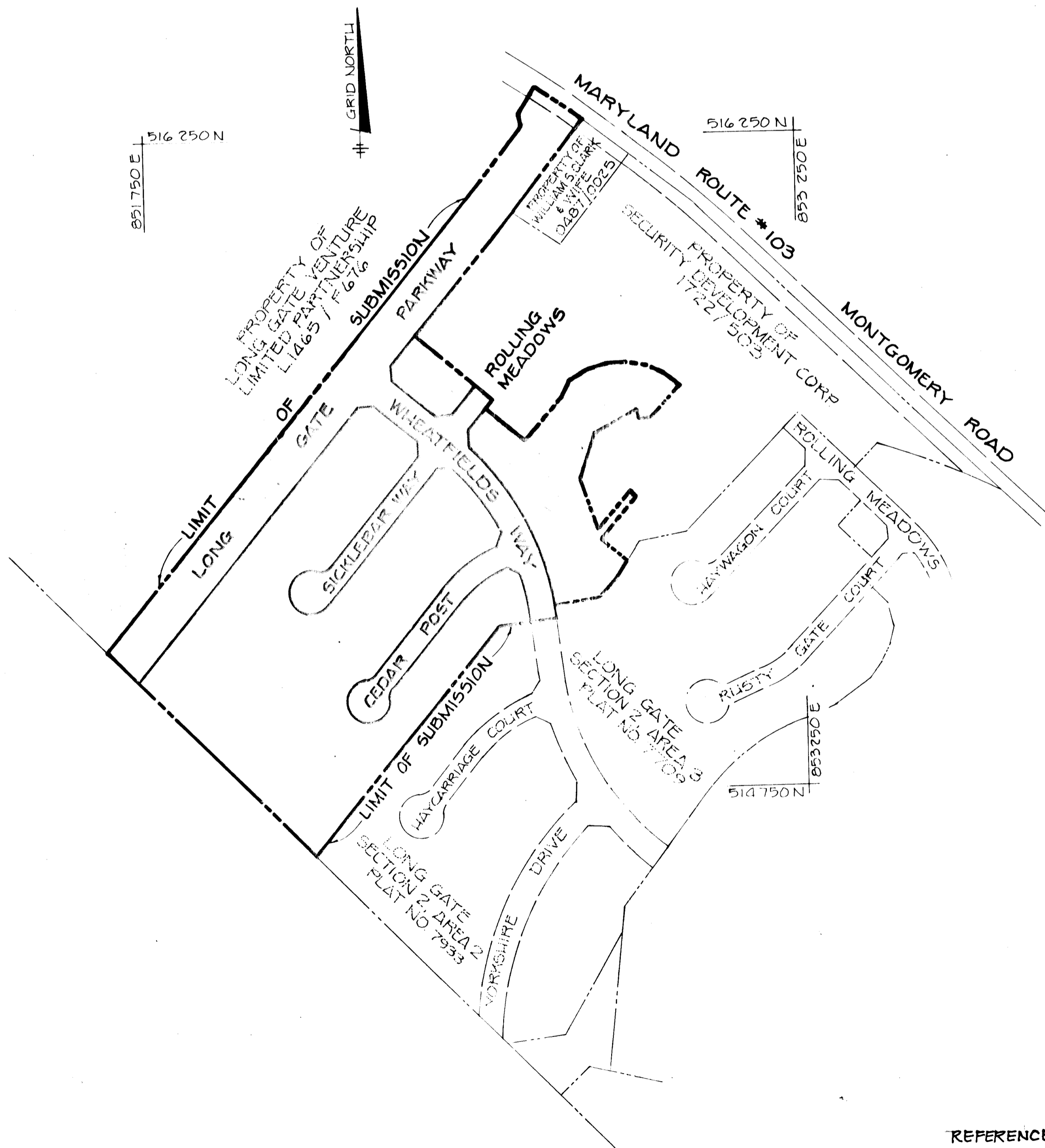
VICINITY MAP
SCALE 1"=200'

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 20.0' 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 1984 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 30 M.P.H., ALL MAJOR COLLECTORS FOR 40 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.
- STORMWATER MANAGEMENT FOR THIS SITE IS PROVIDED IN FACILITY BUILT UNDER LONG GATE SECTION 2, AREA 2, F-87-197 AND AS SHOWN ON THESE PLANS



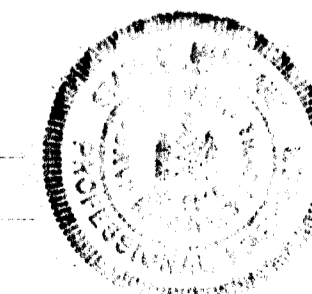
PLAN
SCALE: 1"=200'

REVISION: Δ 9/2/92 REMOVE SWM FACILITY. ADD 24" STORM DRAIN & TYPE 'K' INLET. ADD BERM ALONG LONG GATE PKWY. AND MD RTE 103. REMOVE SIDEWALK ALONG EAST SIDE OF LONG GATE PKWY. FROM WHEATFIELD WAY TO STA. 10+15. SHOW SHA (OTHERS) IMPROVEMENTS TO LONG GATE PKWY. REVISIONS TO SHEETS 3, 3a, 7 & 9.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	
<i>Donald J. Seaman</i>	3/23/89
CHIEF, LAND DEVELOPMENT DIVISION	DATE
<i>Donald W. Weiland</i>	3/2/89
CHIEF, BUREAU OF HIGHWAYS	DATE
<i>William E. Ray</i>	4-21-89
CHIEF, BUREAU OF ENGINEERING	DATE
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	
<i>Mark S. Langley</i>	5/1/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
Δ 3-13-92 REVISE PAVEMENT SECTION	
Δ 3-13-91 LIMIT OF WORK - LONG GATE PARKWAY STA. 10+15.	
NO. DATE	REVISION

TRACY, SCHULTE & ASSOCIATES INC.
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Tracy Schulte

OWNER/DEVELOPER	PROJECT
SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	LONG GATE SECTION 3, AREA I
LOCATION	PARCEL 18 TAX MAP 30 ZONING MAP 30 2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	TITLE SHEET
5-88-08 DATE SEPT 28 1988	W.P. 89-54, F-89-63, F-88-34 PROJECT NO 0038
DES DAM	DRN J14
SCALE 1"=100'	DRAWING 1 OF 10

REFERENCE: HOWARD COUNTY/SECURITY DEVELOPMENT AGREEMENT, MARCH 1992

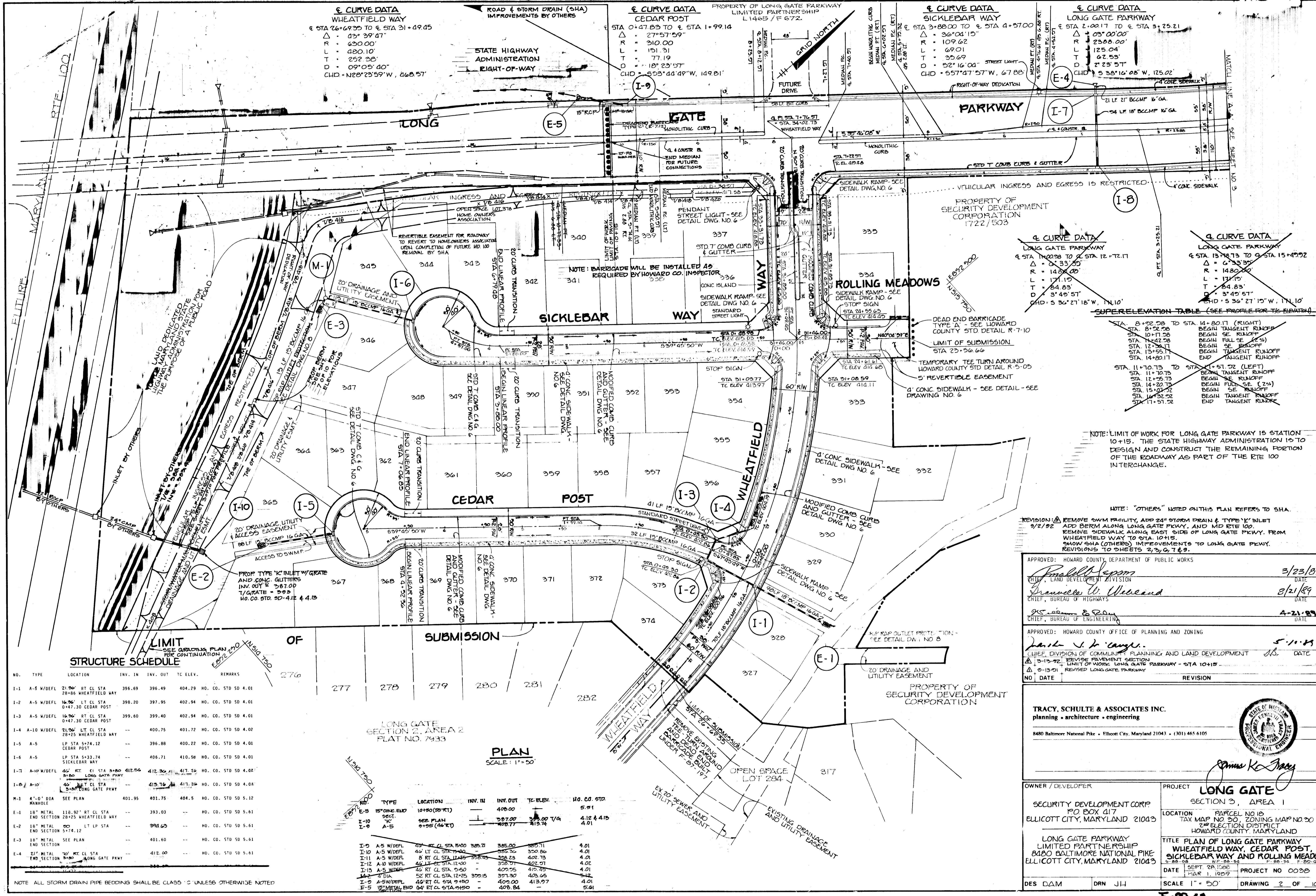
1162

ε CURVE DATA
WHEATFIELD WAY
 ε STA 26+69.35 TO ε STA 31+49.51
 Δ = 03° 39' 47"
 R = 630.00'
 L = 480.00'
 T = 252.35'
 D = 09° 05' 40"
 CHD = N28° 23' 59" W, 416.57'

ε CURVE DATA
CEDAR POST
 ε STA 0+47.83 TO ε STA 1+99.14
 Δ = 27° 57' 59"
 R = 310.00'
 L = 151.31'
 T = 77.19'
 D = 18° 23' 57"
 CHD = S53° 44' 49" W, 149.81'

ε CURVE DATA
SICKLEBAR WAY
 ε STA 3+88.00 TO ε STA 4+57.00
 Δ = 36° 04' 15"
 R = 109.62'
 L = 69.01'
 T = 35.69'
 D = 32° 16' 00"
 CHD = S57° 47' 57" W, 67.88'

ε CURVE DATA
LONG GATE PARKWAY
 ε STA 2+00.17 TO ε STA 3+25.21
 Δ = 03° 00' 00"
 R = 2388.00'
 L = 125.04'
 T = 62.55'
 D = 7° 23' 57"
 CHD = S 38° 16' 08" W, 125.02'



STRUCTURE SCHEDULE

NO.	TYPE	LOCATION	INV. IN	INV. OUT	TC ELEV.	REMARKS
I-1	A-5 W/DEFL	21.26' RT CL STA 28+86 WHEATFIELD WAY	396.69	396.49	404.29	HO. CO. STD SD 4.01
I-2	A-5 W/DEFL	16.26' LT CL STA 0+47.30 CEDAR POST	398.20	397.95	402.94	HO. CO. STD SD 4.01
I-3	A-5 W/DEFL	16.26' RT CL STA 0+47.30 CEDAR POST	399.60	399.40	402.94	HO. CO. STD SD 4.01
I-4	A-10 W/DEFL	21.26' LT CL STA 28+25 WHEATFIELD WAY	--	400.75	401.72	HO. CO. STD SD 4.02
I-5	A-5	LP STA 5+74.12 CEDAR POST	--	396.88	400.22	HO. CO. STD SD 4.01
I-6	A-5	LP STA 5+33.74 SICKLEBAR WAY	--	406.71	410.58	HO. CO. STD SD 4.01
I-7	A-10 W/DEFL	46' RT CL STA 3+80 412.56 3+80 LONG GATE PKWY	412.30	412.30	417.76	HO. CO. STD SD 4.02
I-8	A-10	46' LT CL STA 3+80 LONG GATE PKWY	413.16	413.16	417.20	HO. CO. STD SD 4.02
M-1	4" DIA MANHOLE	SEE PLAN	401.95	401.75	404.5	HO. CO. STD SD 5.12
E-1	18" METAL END SECTION	118.99' RT CL STA 28+25 WHEATFIELD WAY	--	393.03	--	HO. CO. STD SD 5.61
E-2	18" METAL END SECTION	90' LT LP STA 5+74.12	--	394.63	--	HO. CO. STD SD 5.61
E-3	18" METAL END SECTION	SEE PLAN	--	401.60	--	HO. CO. STD SD 5.61
E-4	21" METAL END SECTION	10' RT CL STA 3+80 LONG GATE PKWY	--	412.00	--	HO. CO. STD SD 5.61

PLAN
SCALE: 1" = 50'

TYPE	LOCATION	INV. IN	INV. OUT	TC ELEV.	HO. CO. STD	
E-5	15" CONC END SECT.	10+50 (50' RT)	--	400.00	5.51	
I-10	SEE PLAN	357.00	357.00	413.74	4.12 & 4.13	
I-9	A-5	408.77	408.77	413.74	4.01	
I-9	A-5 W/DEFL	40' RT CL STA 15+00	385.71	385.00	388.71	4.01
I-10	A-5 W/DEFL	46' LT CL STA 15+00	386.36	385.00	388.86	4.01
I-11	A-5 W/DEFL	8' RT CL STA 17+25	388.05	388.23	402.75	4.01
I-12	A-10 W/DEFL	46' LT CL STA 12+00	--	388.71	402.71	4.02
I-13	A-5 W/DEFL	46' RT CL STA 9+50	402.95	402.95	413.75	4.01
I-14	4" DIA	52' RT CL STA 12+25	392.15	392.30	403.65	4.02
I-9	A-5 W/DEFL	40' RT CL STA 9+50	409.00	409.00	413.97	4.01
E-5	15" METAL END SECT.	04' RT CL STA 2+50	408.84	--	5.61	

ε CURVE DATA
LONG GATE PARKWAY
 ε STA 11+00.28 TO ε STA 12+17.17
 Δ = 0° 33' 35"
 R = 1480.00'
 L = 171.15'
 T = 84.83'
 D = 3° 45' 57"
 CHD = S 36° 27' 18" W, 171.10'

ε CURVE DATA
LONG GATE PARKWAY
 ε STA 13+80.73 TO ε STA 15+49.92
 Δ = 0° 33' 35"
 R = 1480.00'
 L = 171.15'
 T = 84.83'
 D = 3° 45' 57"
 CHD = S 36° 27' 18" W, 171.10'

SUPERELEVATION TABLE (SEE PROFILE FOR T/C ELEVATION)

STA.	8+92.28 TO STA 14+80.17 (RIGHT)	STA. 11+00.28 TO STA 11+51.52 (LEFT)
8+92.28	BEGIN TANGENT RUNOFF	BEGIN TANGENT RUNOFF
8+92.28	BEGIN SE Rolloff	BEGIN FULL SE (2%)
10+17.28	BEGIN FULL SE (2%)	BEGIN SE Rolloff
10+17.28	BEGIN SE Rolloff	BEGIN TANGENT RUNOFF
12+38.11	BEGIN TANGENT RUNOFF	BEGIN TANGENT RUNOFF
13+55.17	BEGIN TANGENT RUNOFF	BEGIN TANGENT RUNOFF
14+80.17	END TANGENT RUNOFF	END TANGENT RUNOFF
11+00.28	BEGIN TANGENT RUNOFF	BEGIN TANGENT RUNOFF
11+00.28	BEGIN SE Rolloff	BEGIN FULL SE (2%)
12+38.11	BEGIN FULL SE (2%)	BEGIN SE Rolloff
13+55.17	BEGIN SE Rolloff	BEGIN TANGENT RUNOFF
14+80.17	BEGIN TANGENT RUNOFF	END TANGENT RUNOFF

NOTE: LIMIT OF WORK FOR LONG GATE PARKWAY IS STATION 10+15. THE STATE HIGHWAY ADMINISTRATION IS TO DESIGN AND CONSTRUCT THE REMAINING PORTION OF THE ROADWAY AS PART OF THE RTE 100 INTERCHANGE.

NOTE: "OTHERS" NOTED ON THIS PLAN REFERS TO SHA.

REVISION: Δ REMOVE SWM FACILITY, ADD 24" STORM DRAIN & TYPE 'K' INLET
 2/2/92 ADD BERM ALONG LONG GATE PKWY, AND MD RTE 100.
 REMOVE SIDEWALK ALONG EAST SIDE OF LONG GATE PKWY, FROM WHEATFIELD WAY TO STA. 10+15.
 SHOW SHA (OTHERS) IMPROVEMENTS TO LONG GATE PKWY.
 REVISIONS TO SHEETS 2, 3, 7 & 8.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Small 3/23/89 DATE

Wheeler 3/21/89 DATE

Robinson 4-21-89 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Carroll 5-11-89 DATE

REVISION: Δ 3-15-92 REMOVE PAVEMENT SECTION
 Δ 9-13-91 REVISED LONG GATE PARKWAY - STA 10+15

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Tracy

OWNER / DEVELOPER: SECURITY DEVELOPMENT CORP
 150 BOX 417
 ELICOTT CITY, MARYLAND 21043

PROJECT: LONG GATE SECTION 3, AREA 1

LOCATION: PARCEL NO 10
 TAX MAP NO 30, ZONING MAP NO 30
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

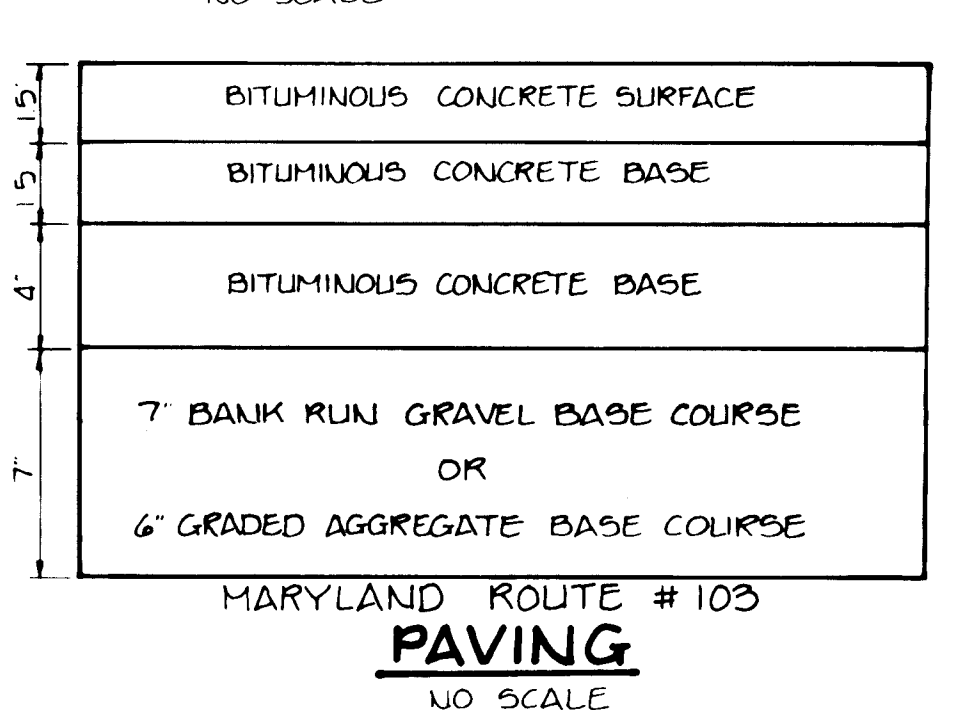
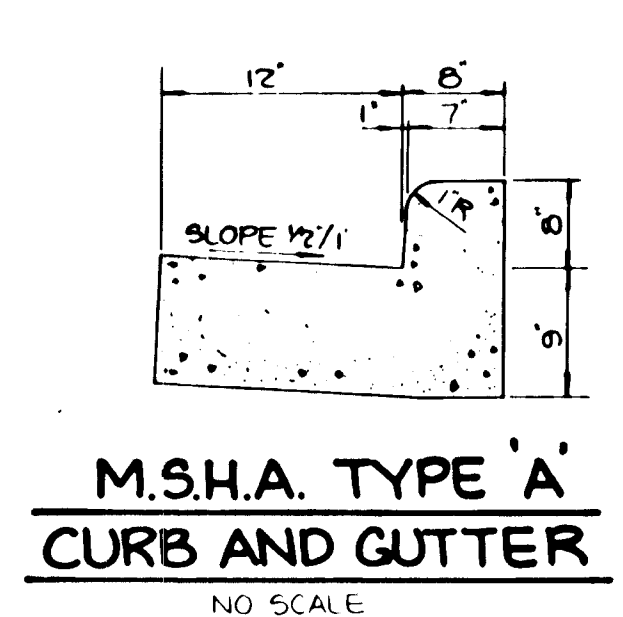
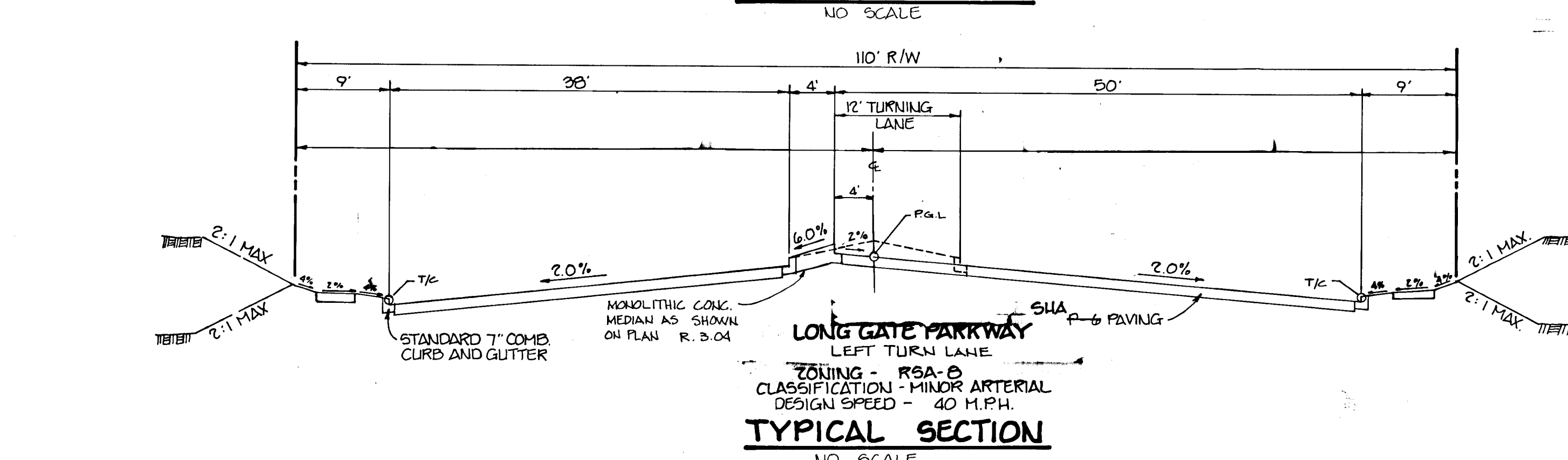
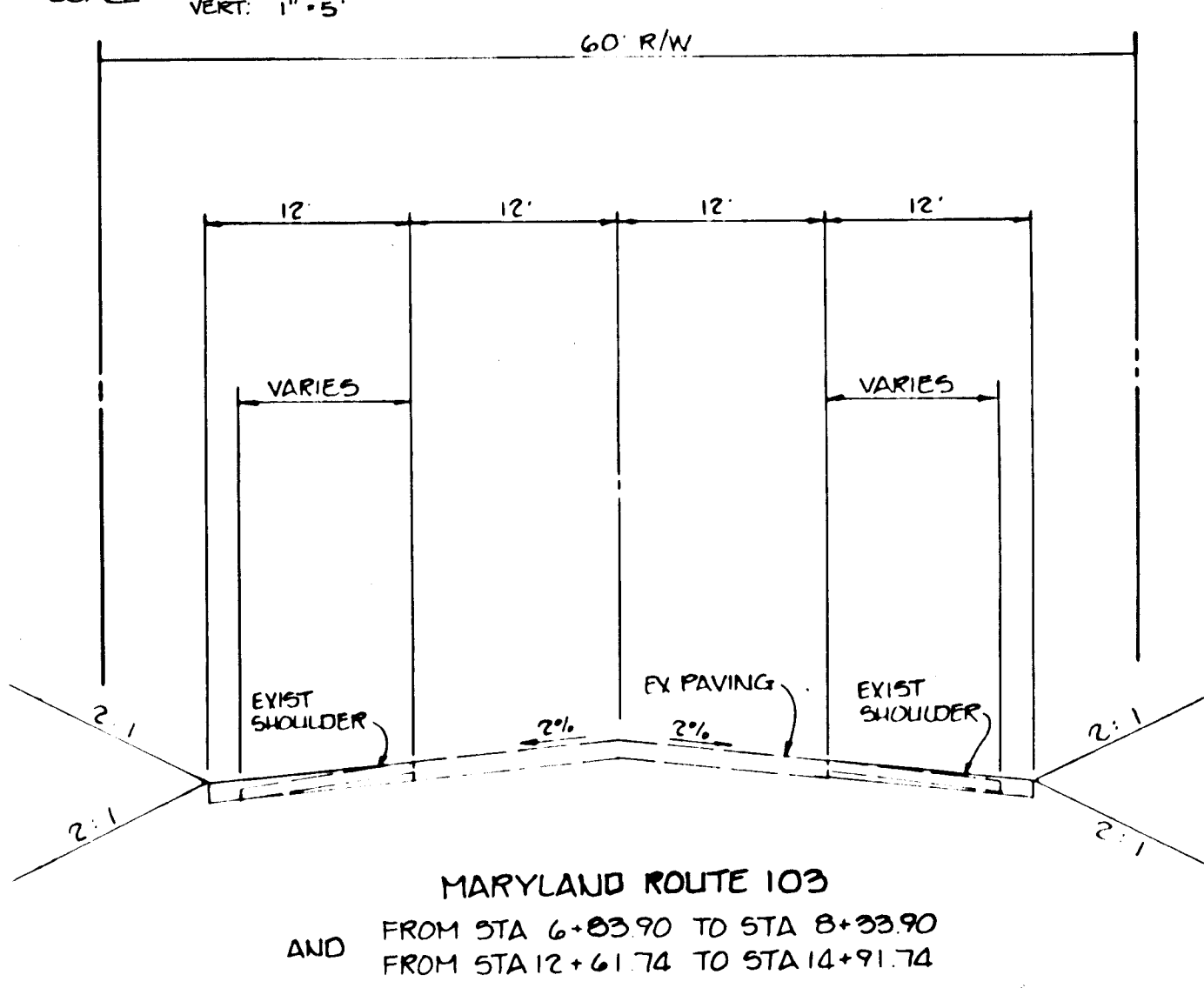
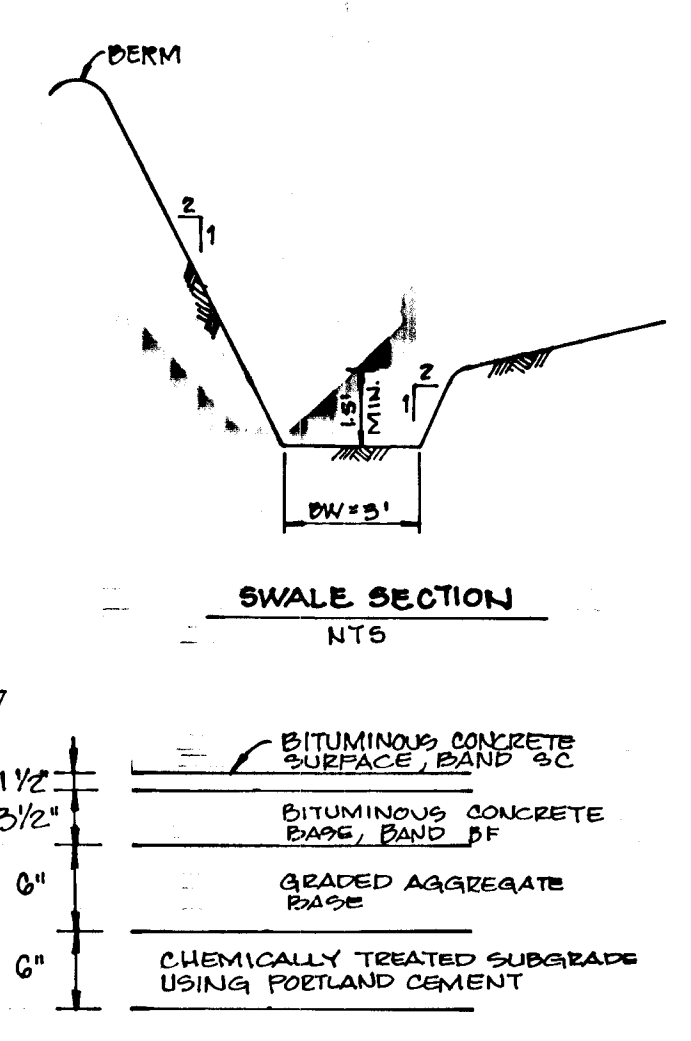
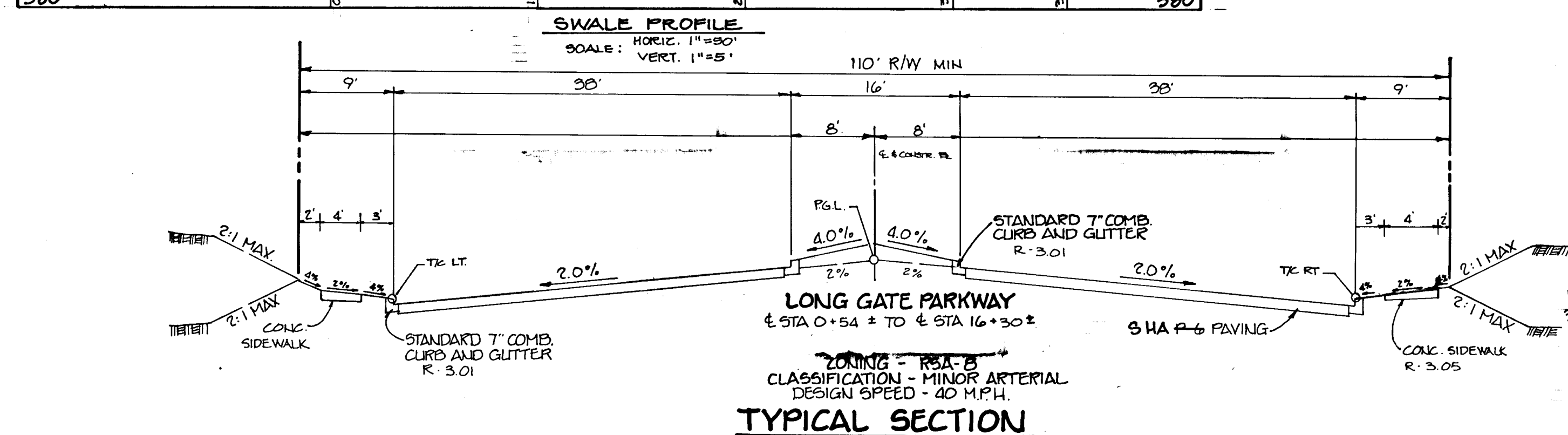
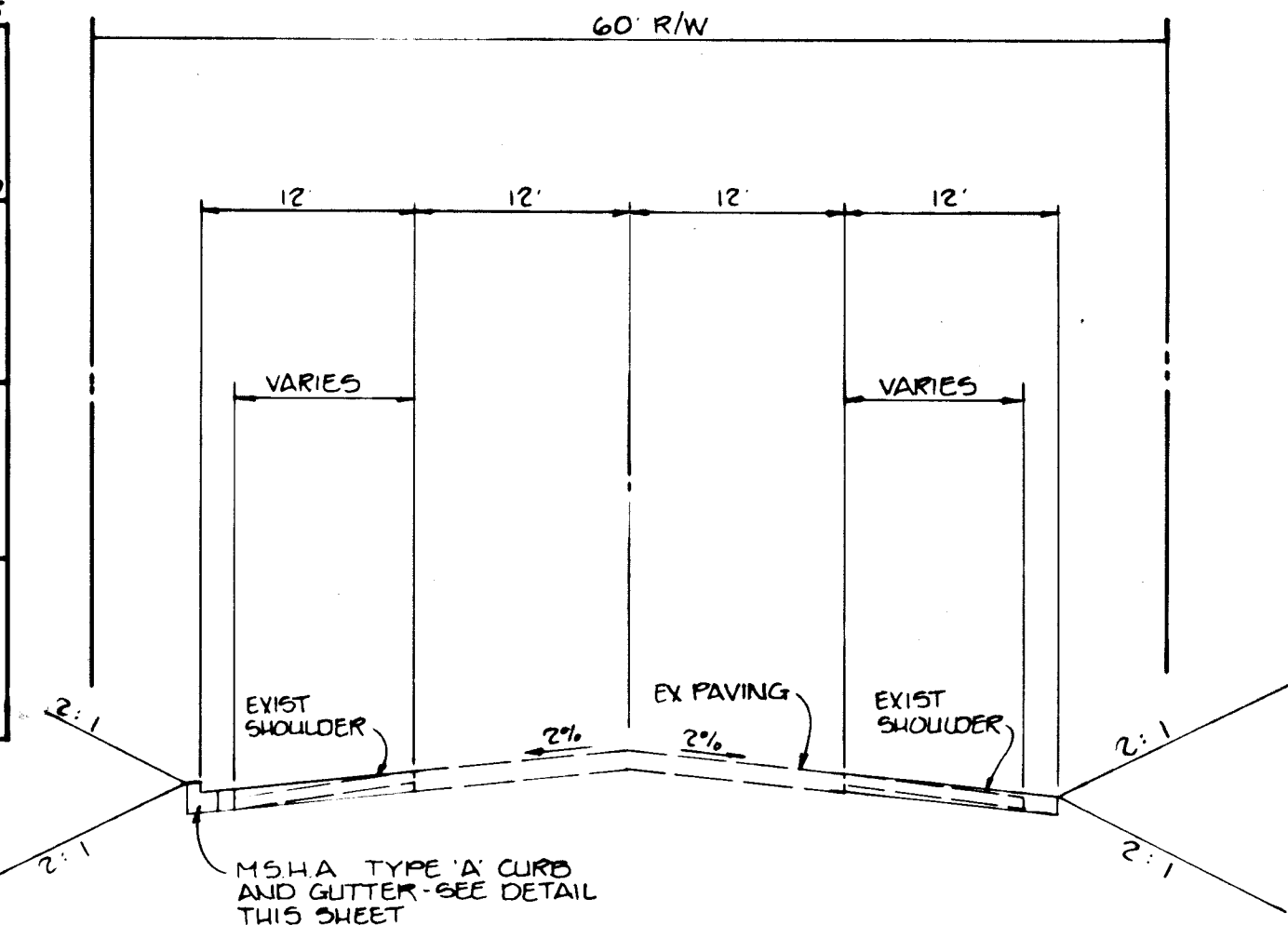
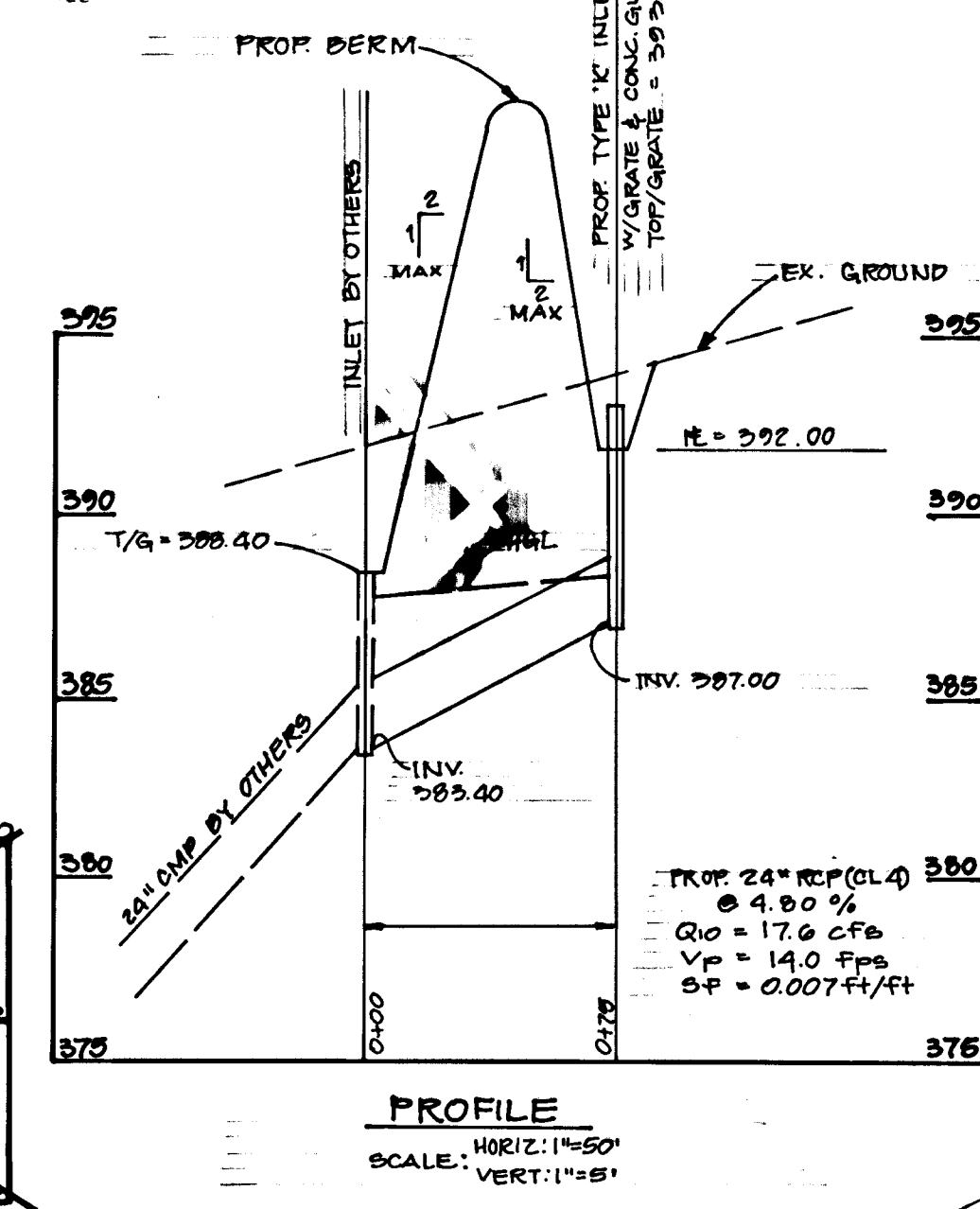
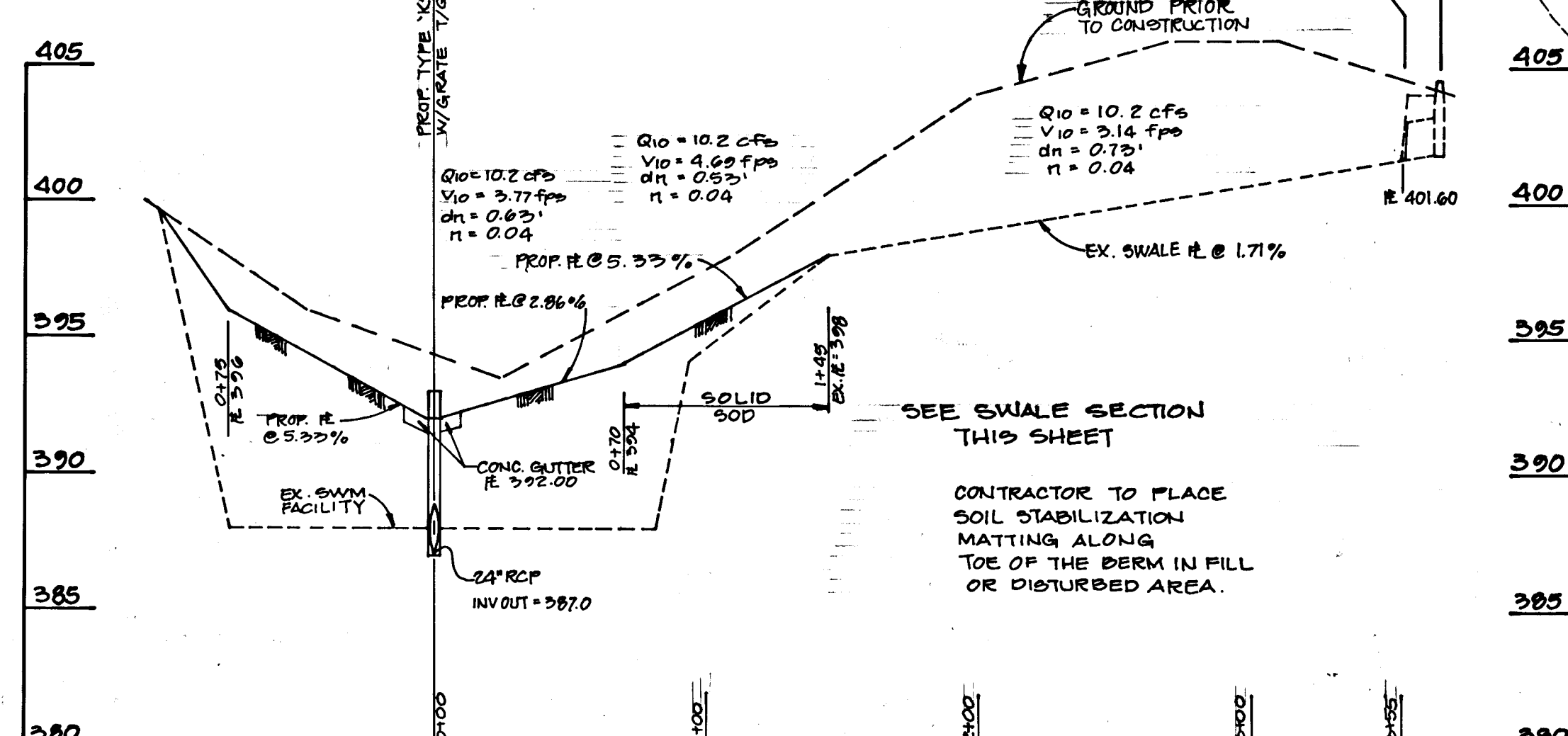
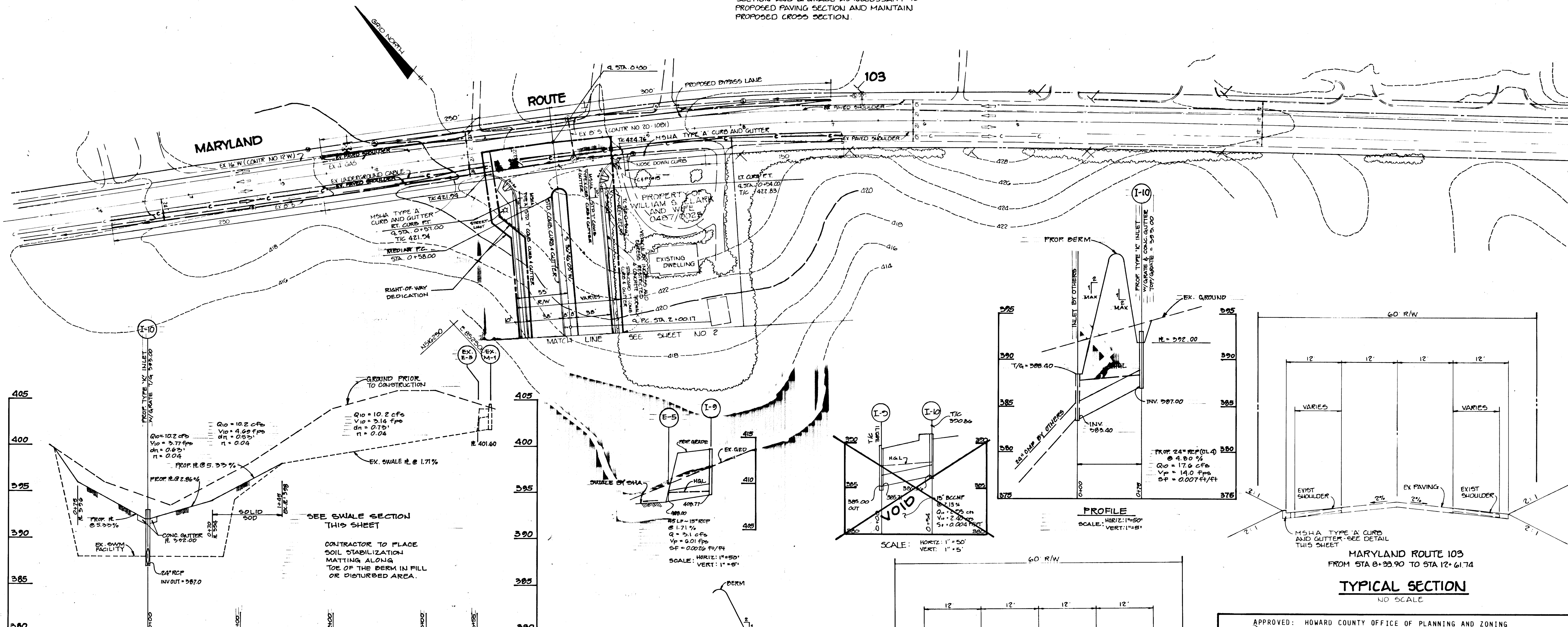
TITLE: TITLE PLAN OF LONG GATE PARKWAY
 WHEATFIELD WAY, CEDAR POST,
 SICKLEBAR WAY AND ROLLING MEADOWS

DATE: SEPT 28, 1988 PROJECT NO 0038
 MAR 1, 1989

DESIGN: DAM DRN J14 SCALE 1" = 50' DRAWING 2 OF 10

2911

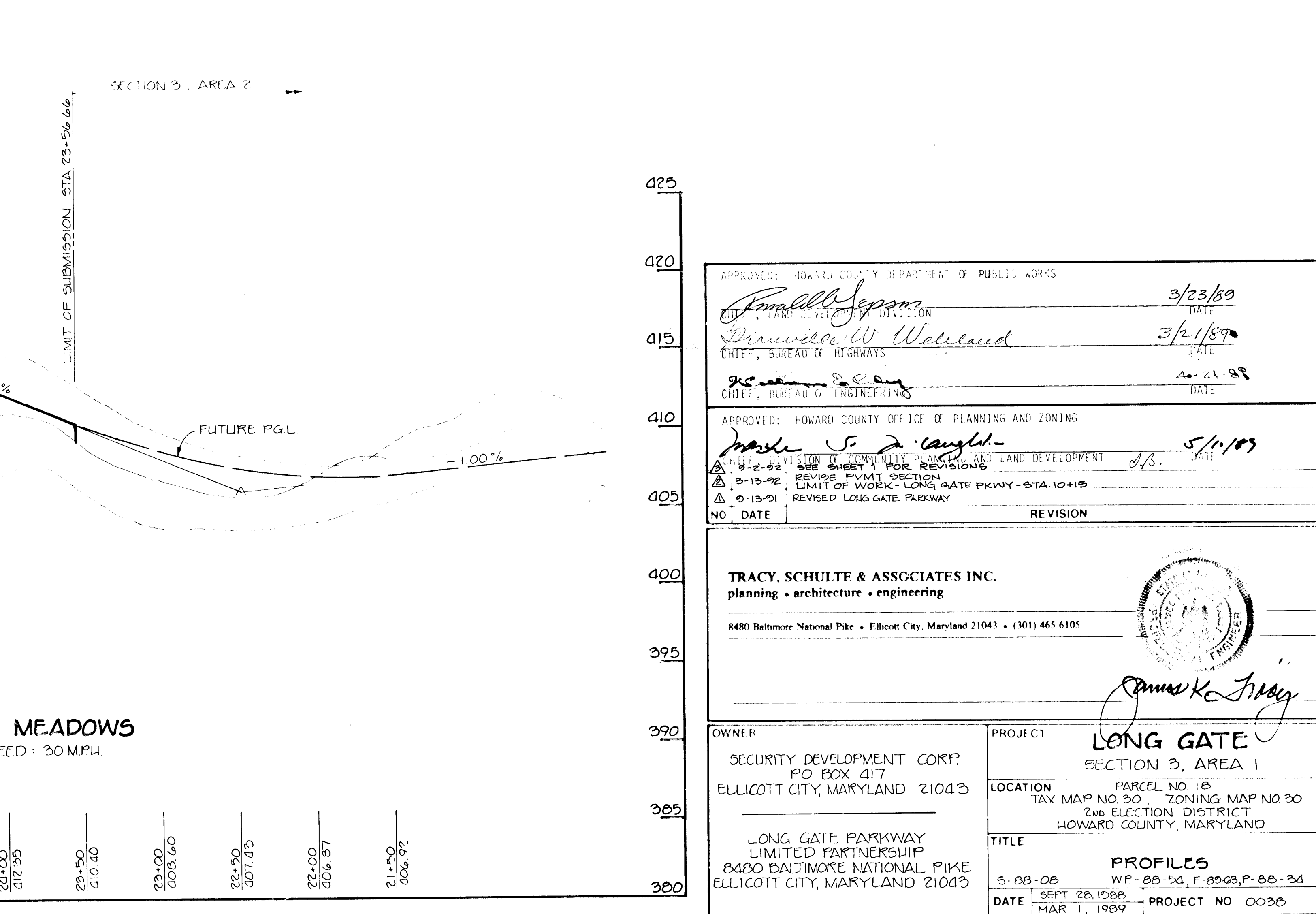
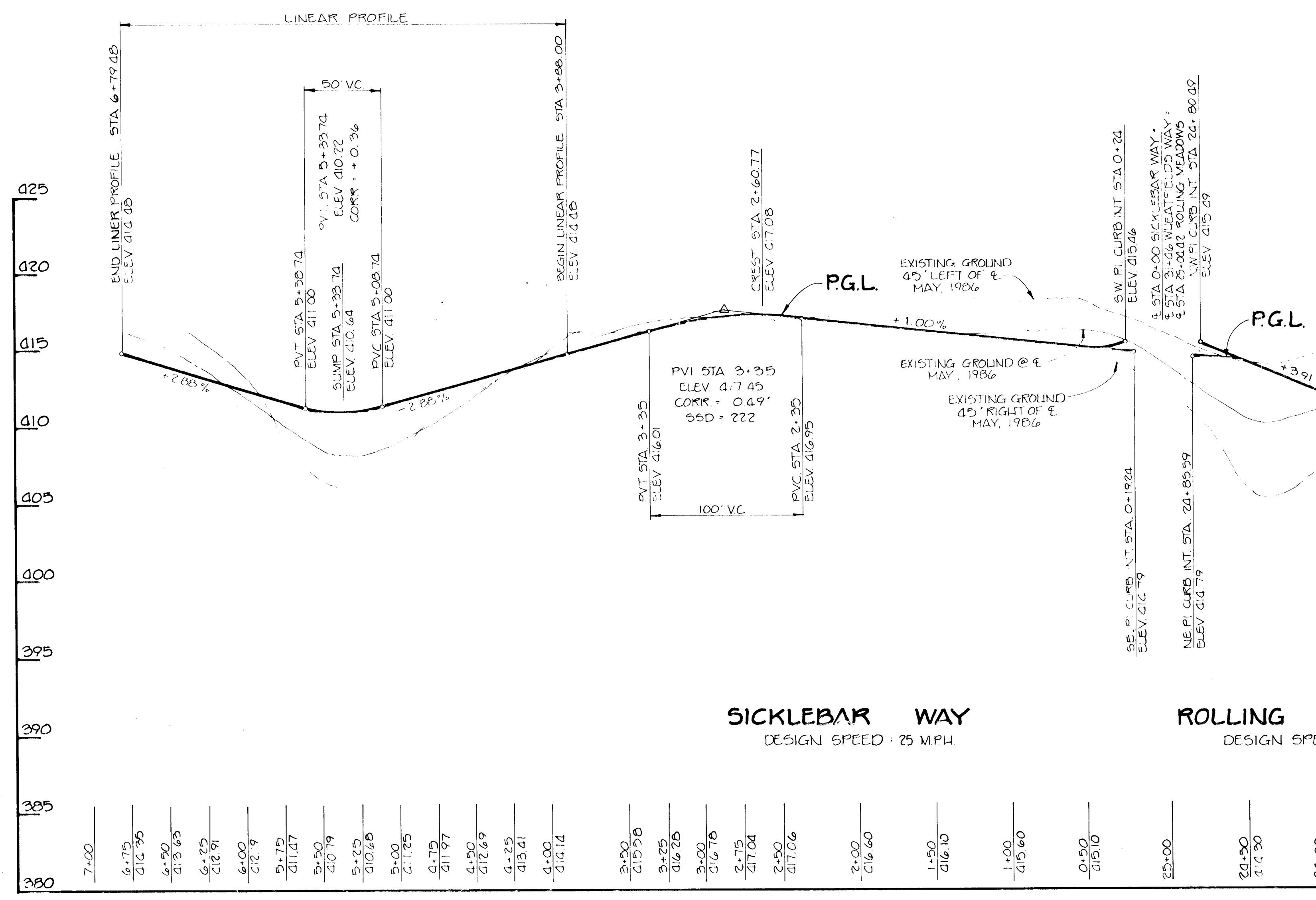
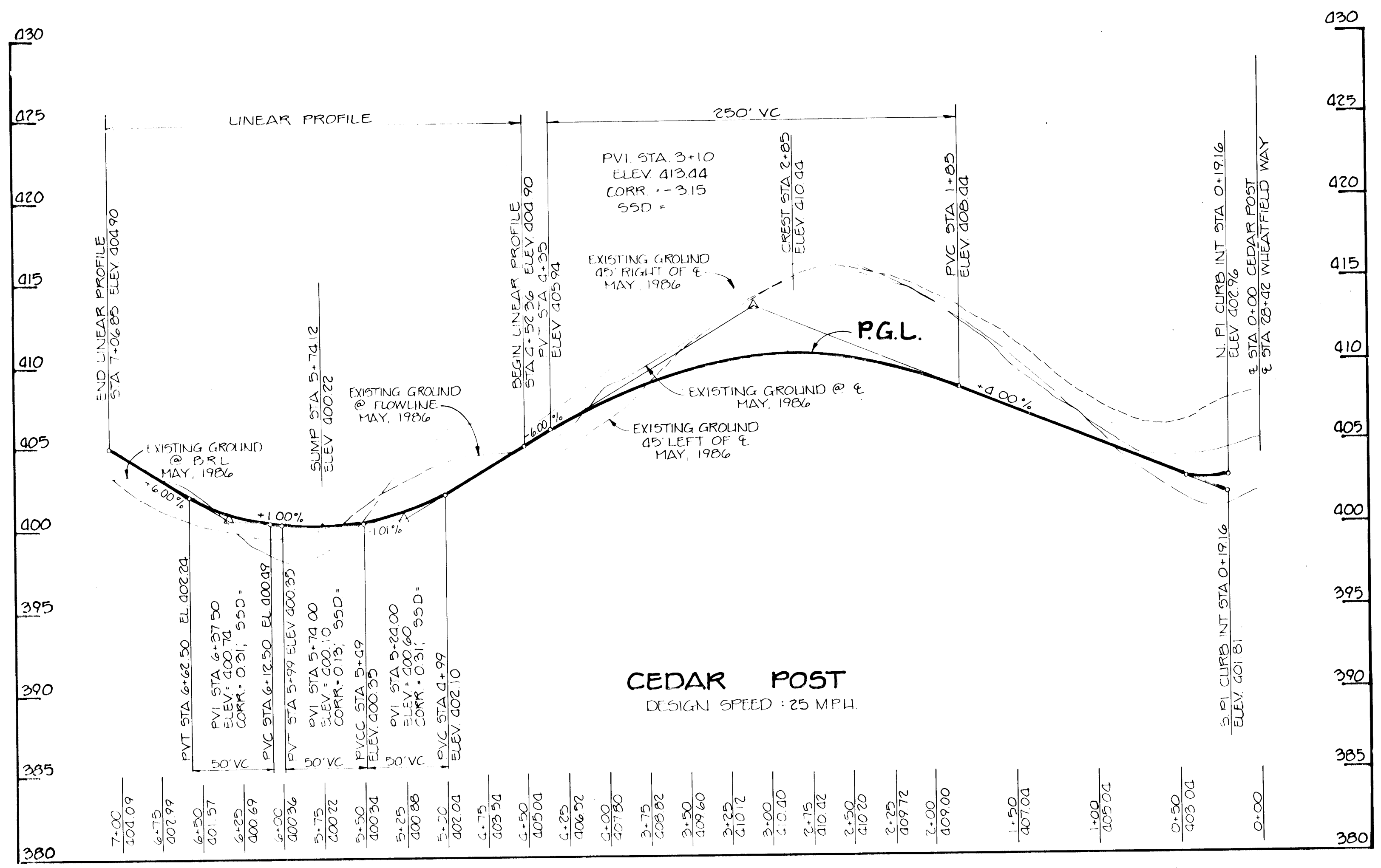
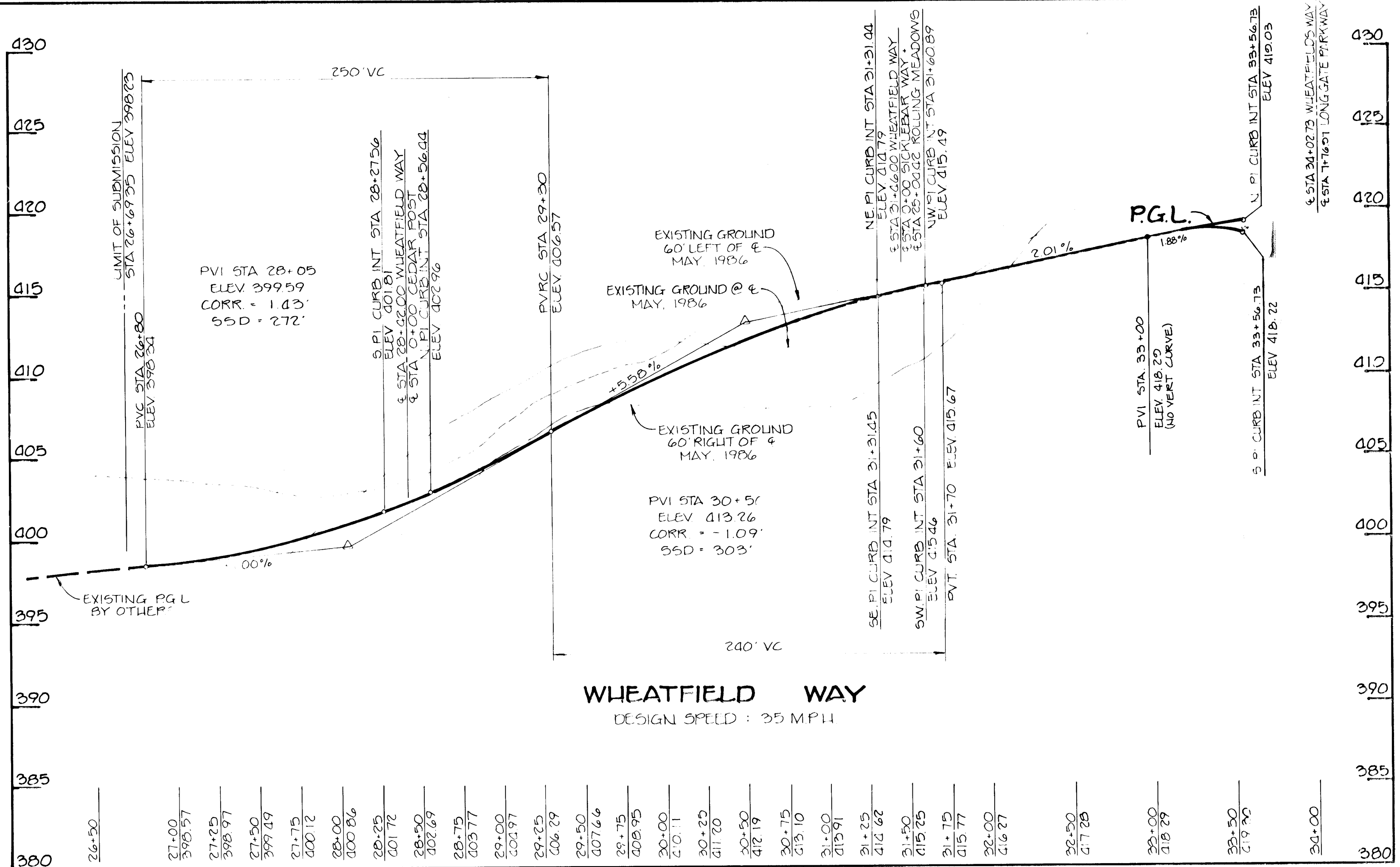
NOTE: CONTRACTOR SHALL CORE EXISTING SHOULDERS IN AREAS OF PROPOSED LANES TO VERIFY PAVING SECTION AND UPGRADE AS NECESSARY TO PROPOSED PAVING SECTION AND MAINTAIN PROPOSED CROSS SECTION.



APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING <i>Janice S. Taylor</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT - DATE 5-11-89	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS <i>James W. Uhlir</i> CHIEF, BUREAU OF HIGHWAYS - DATE 3/21/89	
APPROVED: <i>James K. Tracy</i> CHIEF, BUREAU OF ENGINEERING - DATE 4-11-89	
2-2-82 SEE SHEET 1 FOR REVISIONS	
3-15-82	REVISE PAVEMENT SECTION
2-13-81	REVISED LONG GATE PARKWAY AND PROFILES
NO	DATE
	REVISION

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OWNER / DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELLICOTT CITY, MARYLAND 21043	PROJECT LONG GATE SECTION 3, AREA 1
LONG GATE PARKWAY LIMITED PARTNERSHIP 8480 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043	LOCATION PARCEL NO 18 TAX MAP NO 30 - ZONING MAP NO 30 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE PLAN OF MARYLAND ROUTE 103 LONG GATE PARKWAY INTERSECTION	DATE JANUARY 5, 1988 MAR 1, 1989
DES D&M	DRN D&M
SCALE 1"=50'	DRAWING 3 OF 10

1162



APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
Arnold J. Sponzo DATE 3/23/89
 CHIEF, PUBLIC WORKS DIVISION

APPROVED: HOWARD COUNTY DEPARTMENT OF HIGHWAYS
Drummond W. Wadland DATE 3/21/89
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
Mark S. J. Langley DATE 5/1/89
 CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 REVISION 1: SEE SHEET 1 FOR REVISIONS
 REVISION 2: 3-13-89 REVISE PVI/TI SECTION
 REVISION 3: 5-13-91 REVISED LONG GATE PARKWAY

NO. DATE REVISION

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 planning • architecture • engineering
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Tracy Schulte

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

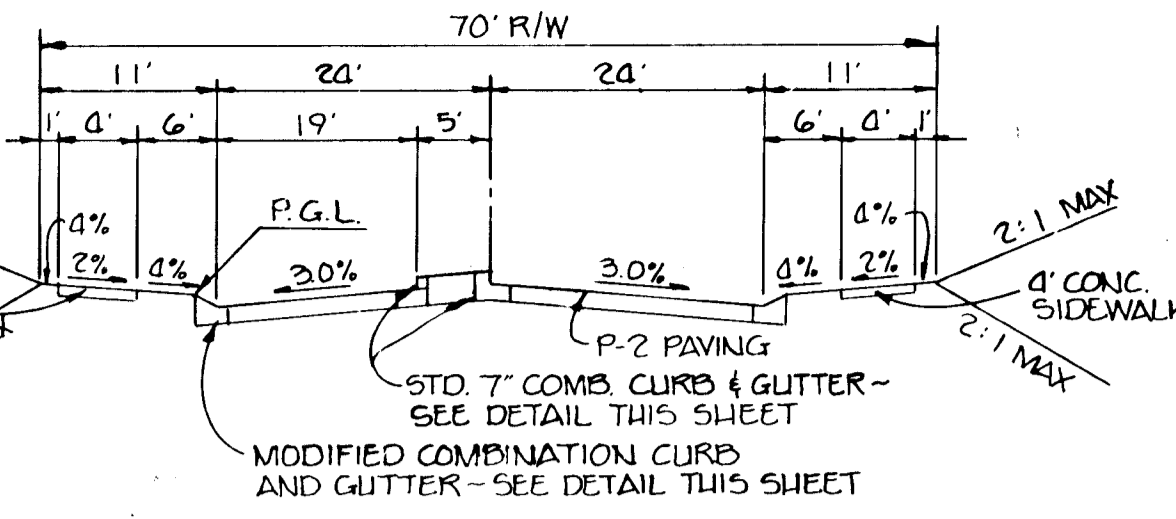
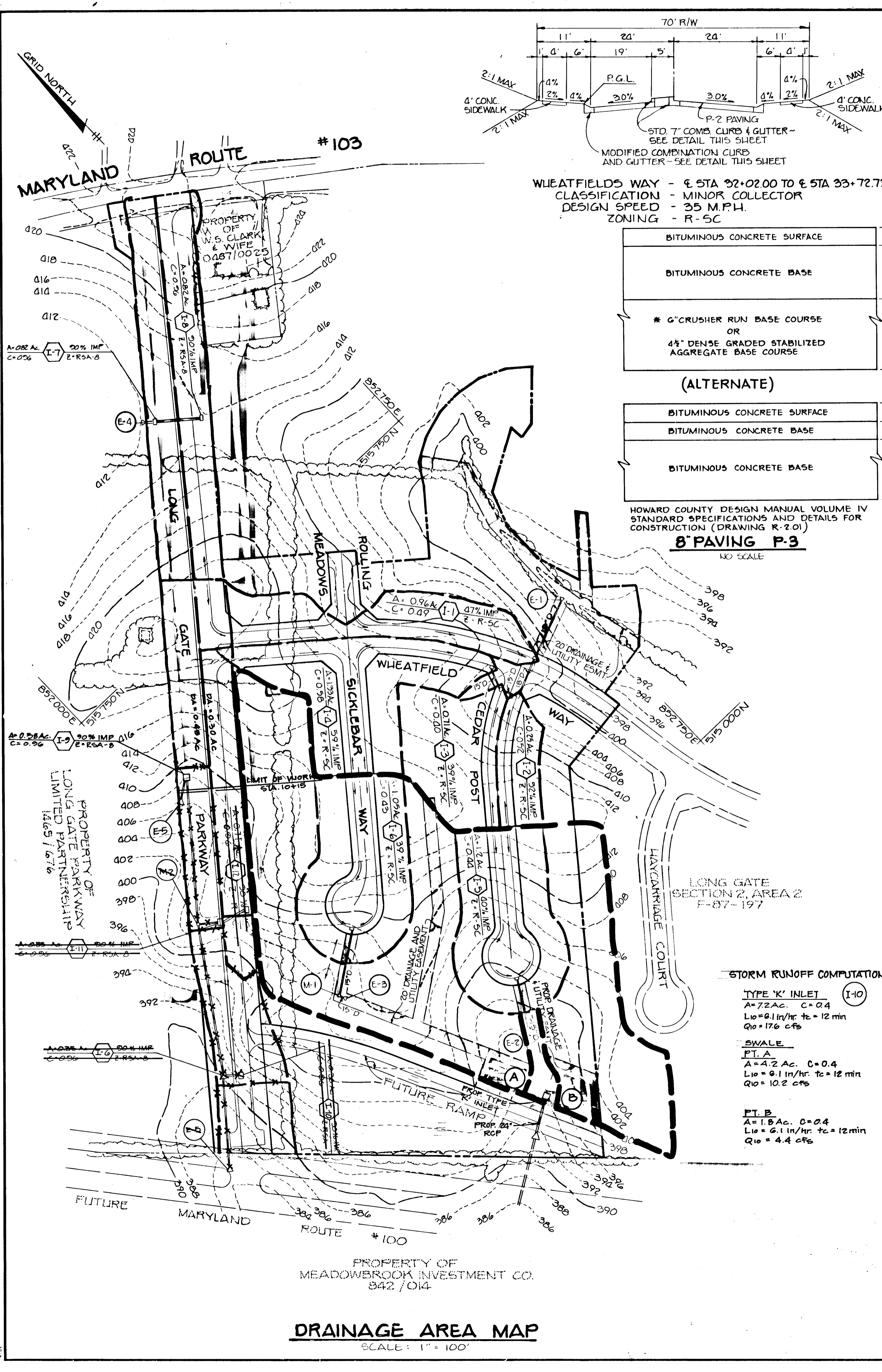
PROJECT: LONG GATE SECTION 3, AREA 1

LOCATION: PARCEL NO. 18
 ZONING MAP NO. 30
 TAX MAP NO. 30
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

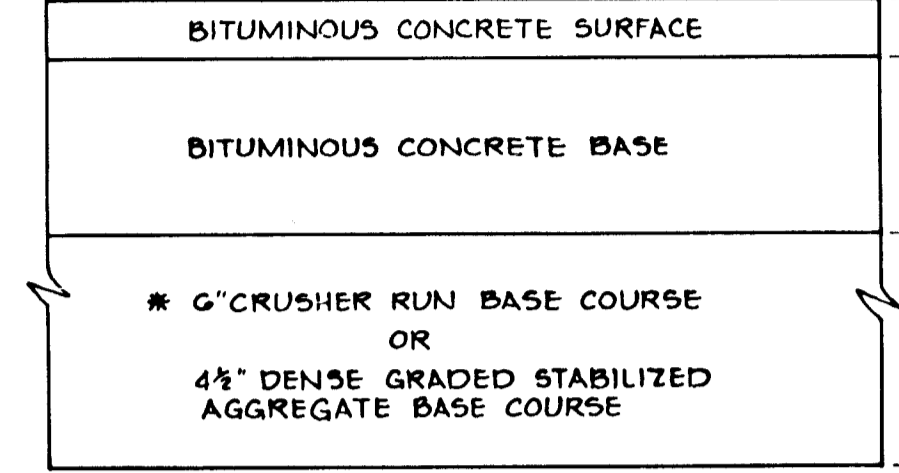
TITLE: PROFILES
 5-88-08 WP-88-54, F-8808, P-88-34
 DATE: SEPT 28, 1988 PROJECT NO 0038
 MAR 1, 1989

DES. D.A.M. DRN. JH SCALE: HORIZ. 1" = 50' VERT. 1" = 5' DRAWING 4 OF 10

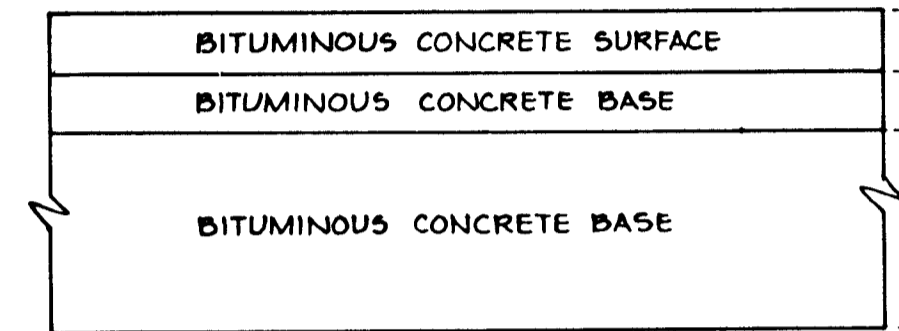
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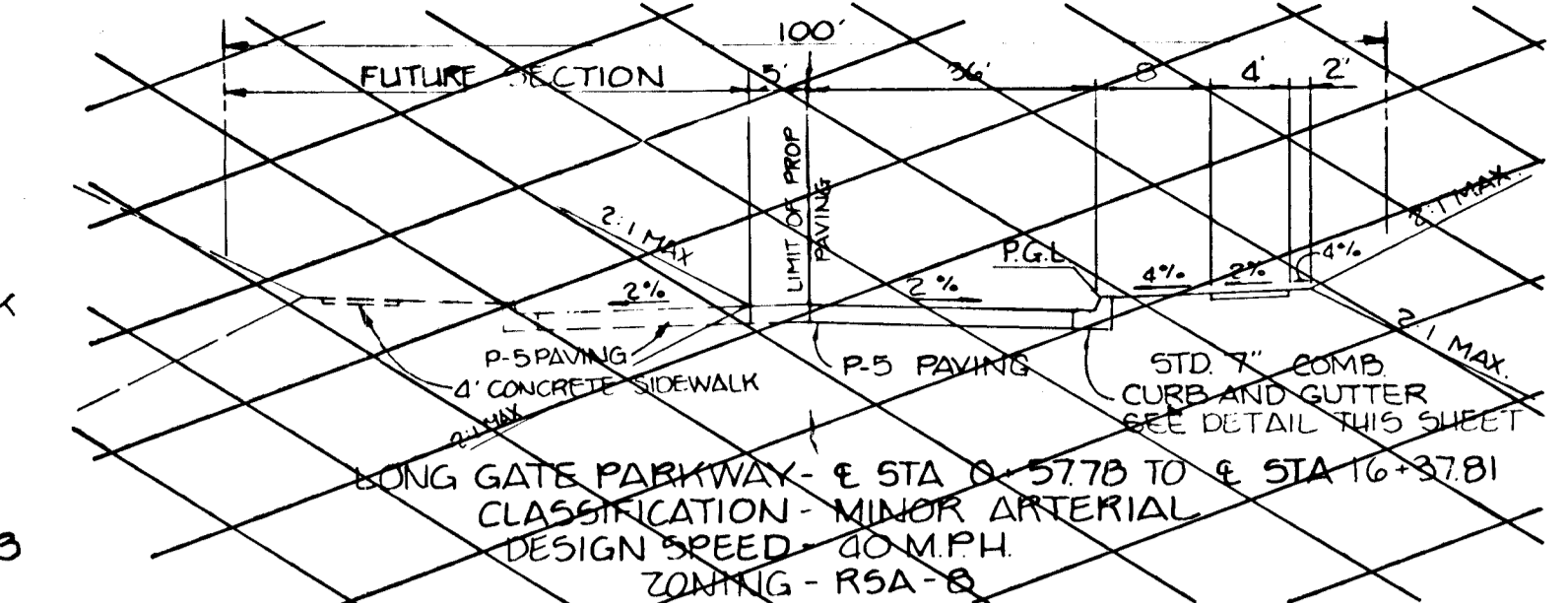
WHEATFIELD WAY - § STA 32+02.00 TO § STA 33+72.73
 CLASSIFICATION - MINOR COLLECTOR
 DESIGN SPEED - 35 M.P.H.
 ZONING - R-5C



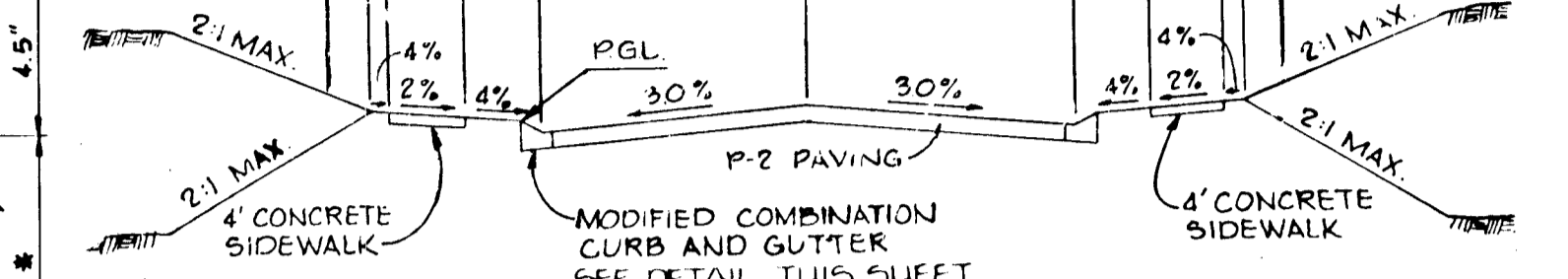
(ALTERNATE)
 HOWARD COUNTY DESIGN MANUAL VOLUME IV
 STANDARD SPECIFICATIONS AND DETAILS FOR
 CONSTRUCTION (DRAWING R-201)
8" PAVING P-3
 NO SCALE



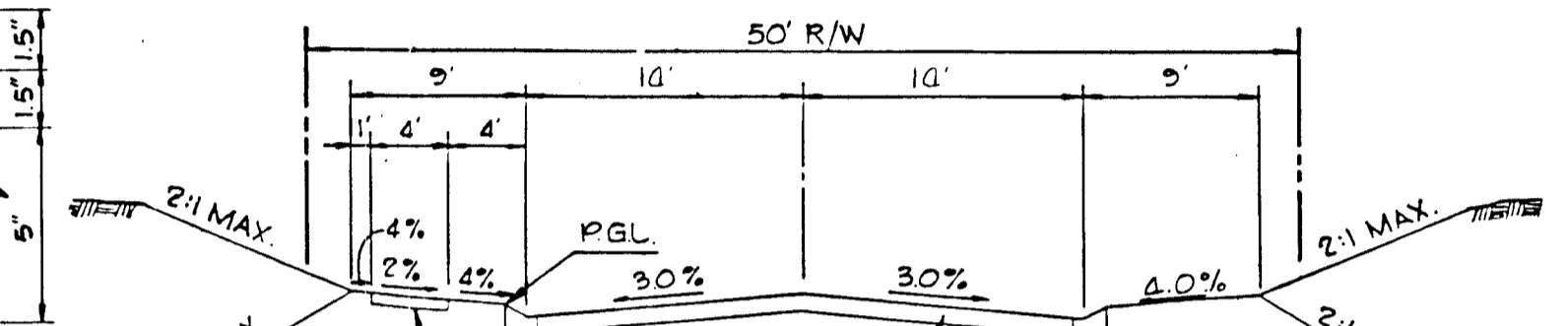
(ALTERNATE)
 HOWARD COUNTY DESIGN MANUAL VOLUME IV
 STANDARD SPECIFICATIONS AND DETAILS FOR
 CONSTRUCTION (DRAWING R-201)
8" PAVING P-3
 NO SCALE



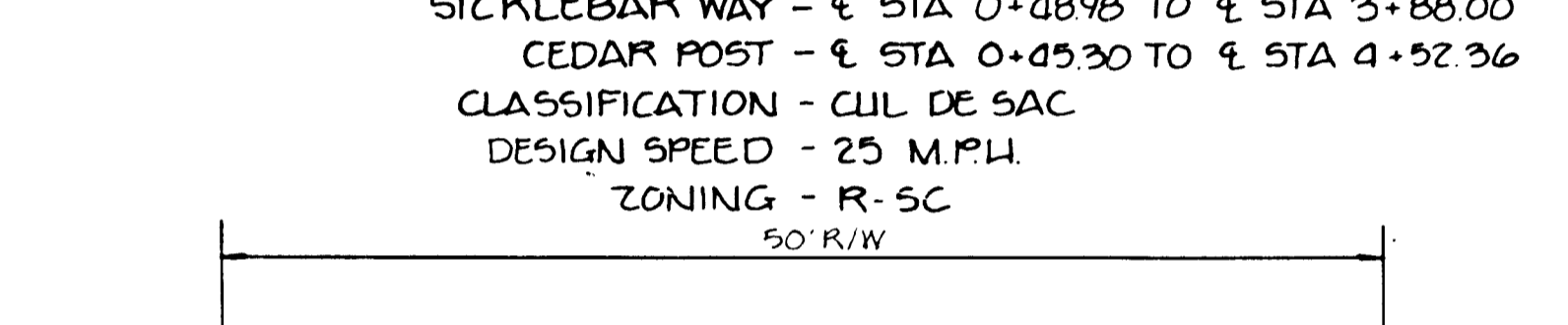
LONG GATE PARKWAY - § STA 0+57.70 TO § STA 16+37.81
 CLASSIFICATION - MINOR ARTERIAL
 DESIGN SPEED - 40 M.P.H.
 ZONING - R-5A-B



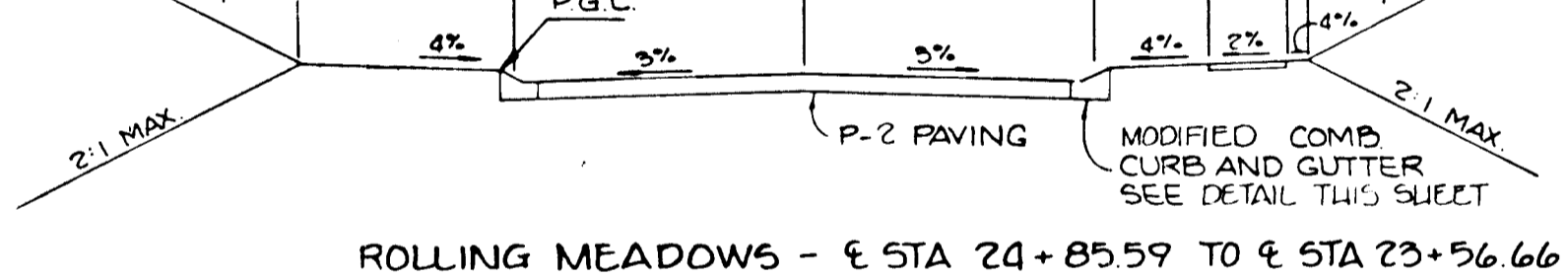
WHEATFIELD WAY - § STA 26+69.35 TO § STA 31+46.00
 CLASSIFICATION - MINOR COLLECTOR
 DESIGN SPEED - 35 M.P.H.
 ZONING - R-5C



SICKLEBAR WAY - § STA 0+48.98 TO § STA 3+88.00
 CEDAR POST - § STA 0+45.30 TO § STA 4+52.36
 CLASSIFICATION - CUL DE SAC
 DESIGN SPEED - 25 M.P.H.
 ZONING - R-5C



ROLLING MEADOWS - § STA 24+85.59 TO § STA 23+56.66
 CLASSIFICATION - LOCAL ROAD
 DESIGN SPEED - 30 M.P.H.
 ZONING - R-5C



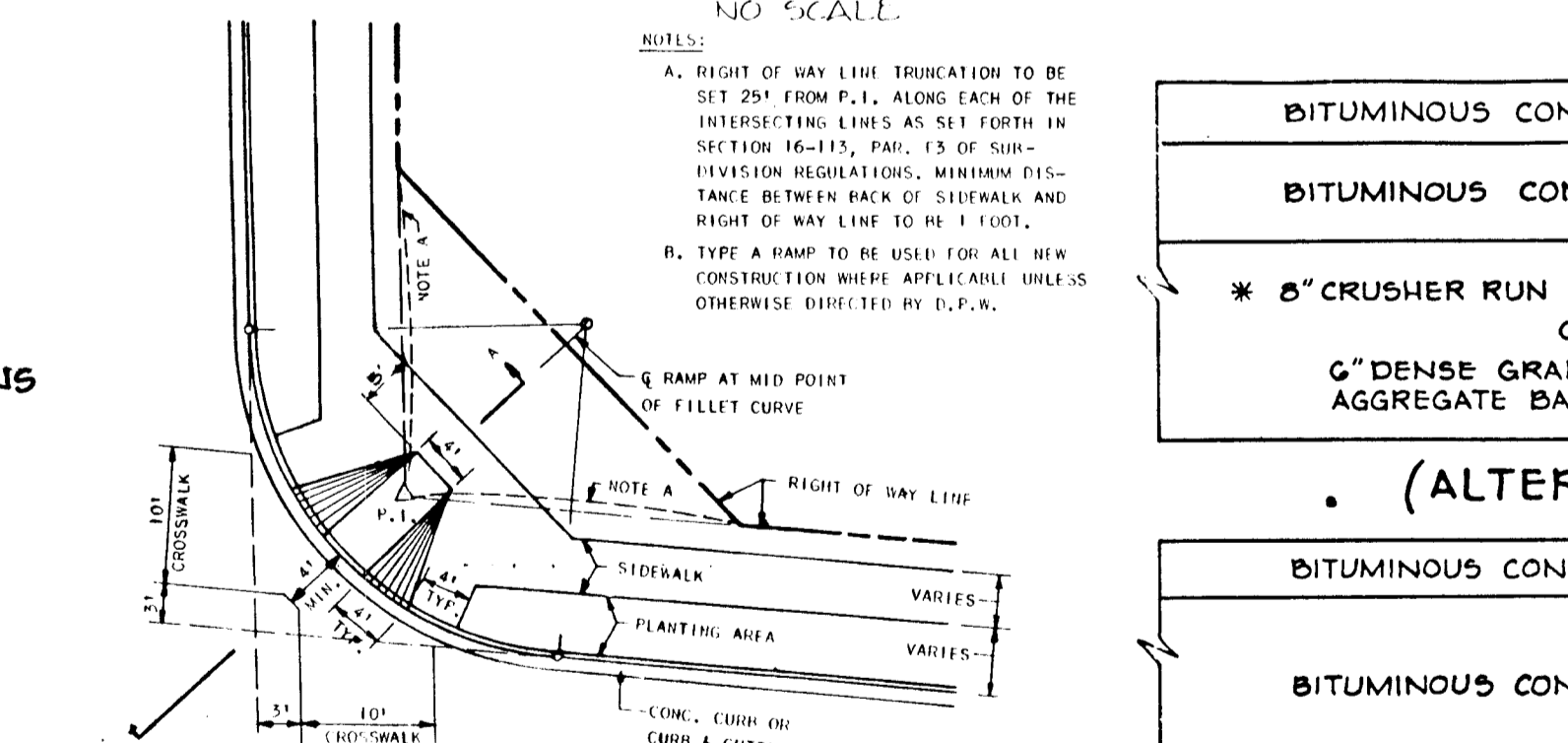
LONG GATE
 SECTION 2, AREA 2
 F-87-197

STORM RUNOFF COMPUTATIONS

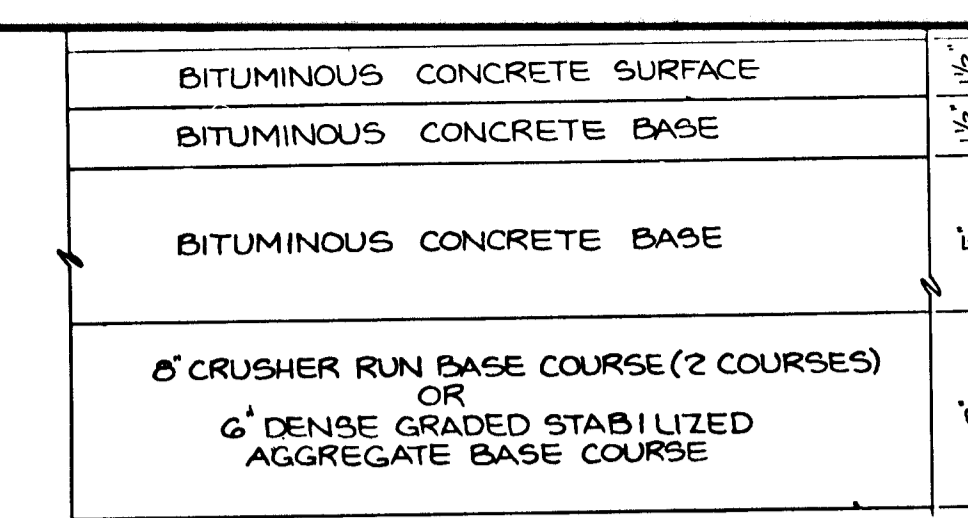
TYPE 'K' INLET (I-10)
 A=7.2 AC. C=0.4
 L₁₀=8.1 in/hr. t_c=12 min
 Q₁₀=17.6 cfs

SWALE
 P.T.A
 A=4.2 AC. C=0.4
 L₁₀=6.1 in/hr. t_c=12 min
 Q₁₀=10.2 cfs

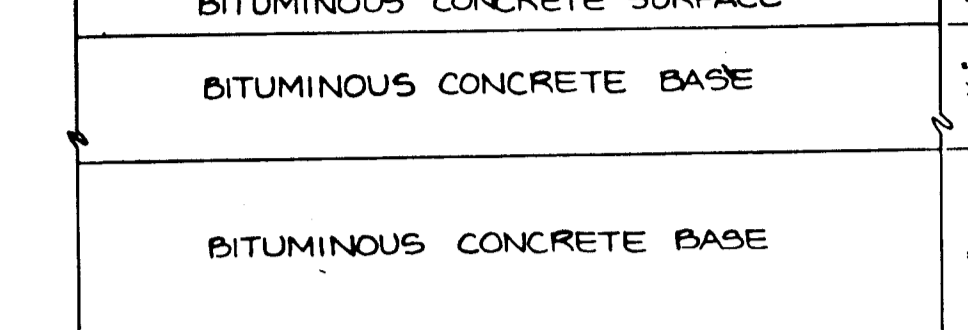
P.T.B
 A=1.8 AC. C=0.4
 L₁₀=6.1 in/hr. t_c=12 min
 Q₁₀=4.4 cfs



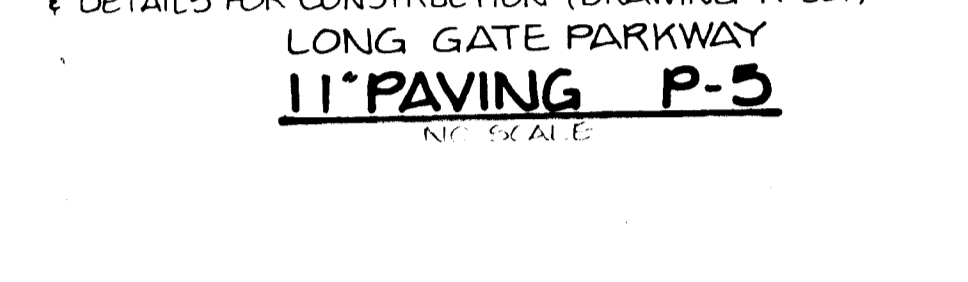
SIDEWALK RAMP DETAIL
 NO SCALE



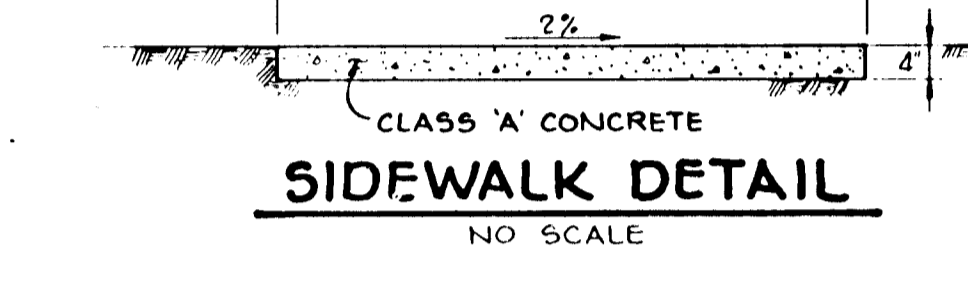
(ALTERNATE)
 HOWARD COUNTY DESIGN MANUAL VOLUME IV
 STANDARD SPECIFICATIONS AND DETAILS FOR
 CONSTRUCTION (DRAWING R-201)
11" PAVING P-5
 NO SCALE



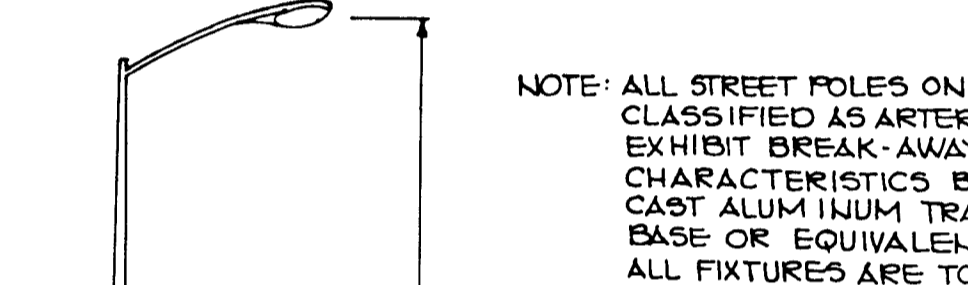
SIDEWALK DETAIL
 NO SCALE



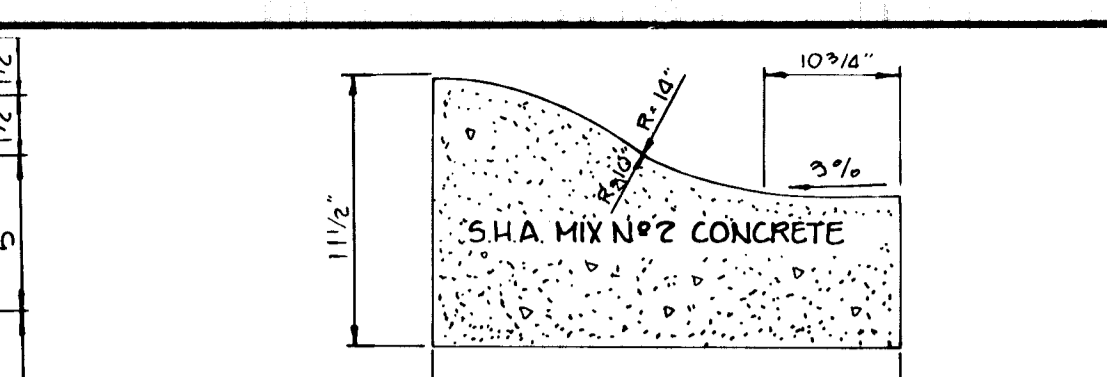
PENDANT LIGHTING FIXTURE
 NO SCALE



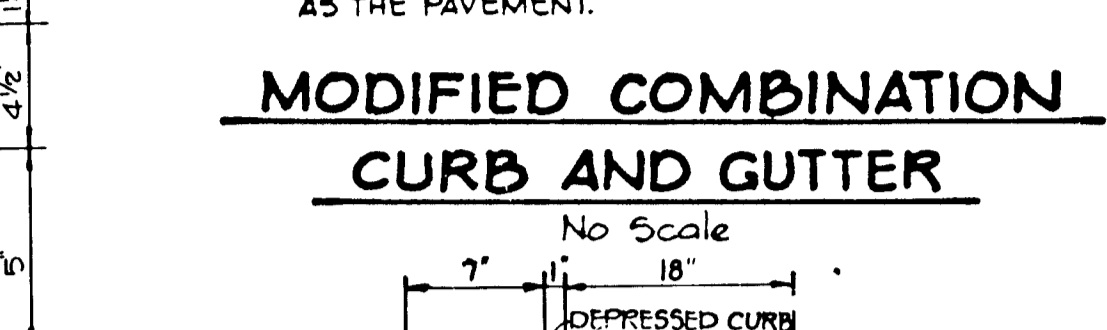
(ALTERNATE)
 HOWARD COUNTY DESIGN MANUAL VOLUME IV
 STANDARD SPECIFICATIONS AND DETAILS FOR
 CONSTRUCTION (DRAWING R-201)
6 1/2" PAVING P-2
 NO SCALE



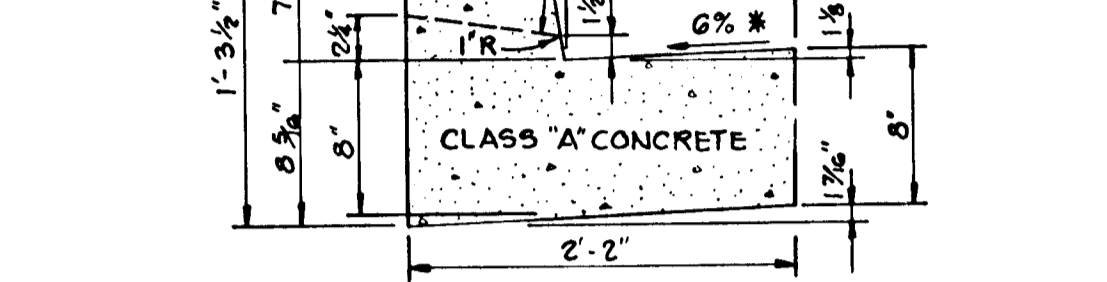
MACADAM PATHWAY DETAIL
 NO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV
 STANDARD SPECIFICATIONS AND DETAILS FOR
 CONSTRUCTION (DRAWING R-301)
**MODIFIED COMBINATION
 CURB AND GUTTER**
 NO SCALE



HOWARD COUNTY DESIGN MANUAL VOLUME IV
 STANDARD SPECIFICATIONS AND DETAILS FOR
 CONSTRUCTION (DRAWING R-301)
**STANDARD 7" COMBINATION
 CURB AND GUTTER**
 NO SCALE



LIGHTING FIXTURE DETAIL
 NO SCALE

NOTE: ALL STREET POLES ON ROADWAYS CLASSIFIED AS ARTERIALS SHALL EXHIBIT BREAK-AWAY CHARACTERISTICS BY UTILIZING CAST ALUMINUM TRANSFORMER BASE OR EQUIVALENT. ALL FIXTURES ARE TO BE STANDARD BALTIMORE GAS AND ELECTRIC HARDWARE (250-400 WATT MERCURY TYPES) AND MOUNTED ON STANDARD BALTIMORE GAS AND ELECTRIC CONCRETE BASE.

NOTE: ALL STREET LIGHT FIXTURES TO BE 175 WATT MERCURY TYPE WITH A MIN OF 7,700 LUMENS 14" HIGH WITH GREY FIBERGLASS AND DIRECTED DOWNWARD LOCATION OF STREET LIGHT FIXTURES ARE ON THE PLAN AND ARE SHOWN THIS 3/23/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DATE 3/23/89
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
 DATE 5/11/89

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

OWNER / DEVELOPER
 SECURITY DEVELOPMENT CORP.
 P.O. BOX 417
 ELLICOTT CITY, MARYLAND 21043

PROJECT
**LONG GATE
 SECTION 2, AREA 1**

LOCATION
 PARCEL NO. 18
 TAX MAP NO. 30 ZONING MAP NO. 30
 2ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TITLE
**DETAILS AND
 DRAINAGE AREA MAP**

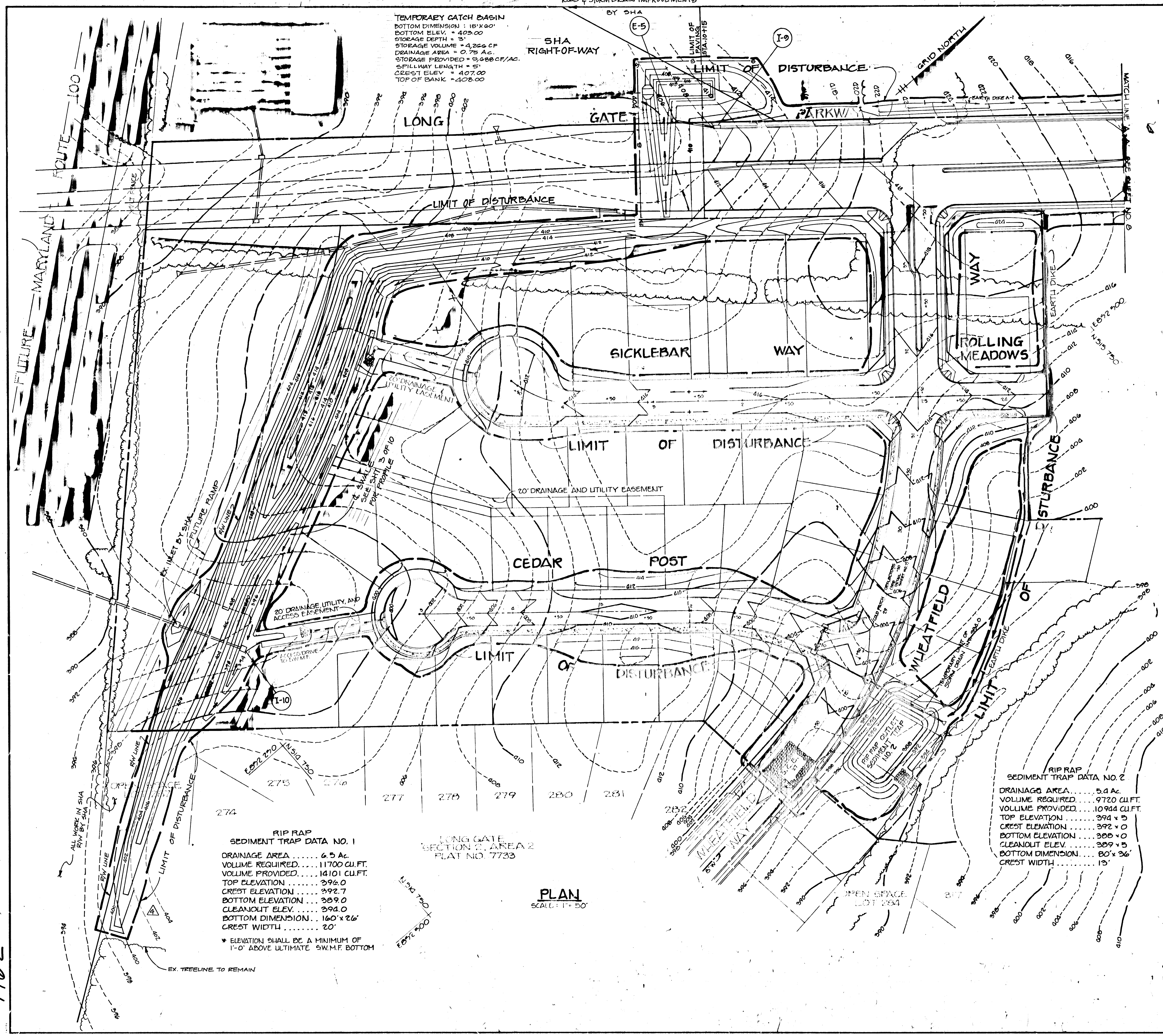
DATE
 SEPT. 28, 1988
 MAR. 1, 1989

SCALE AS SHOWN
 DRAWING 6 OF 10

2911

DRAINAGE AREA MAP
 SCALE: 1" = 100'

F-87-63



TEMPORARY CATCH BASIN
 BOTTOM DIMENSION: 15' x 30'
 BOTTOM ELEV. = 409.00
 STORAGE DEPTH = 3'
 STORAGE VOLUME = 4,266 CF
 DRAINAGE AREA = 0.75 AC.
 STORAGE PROVIDED = 9,000 CF/AC.
 SPILLWAY LENGTH = 5'
 CREST ELEV. = 407.00
 TOP OF BANK = 408.00

RIP RAP
 SEDIMENT TRAP DATA NO. 1
 DRAINAGE AREA 6.5 AC.
 VOLUME REQUIRED 11700 CU.FT.
 VOLUME PROVIDED 14101 CU.FT.
 TOP ELEVATION 392.0
 CREST ELEVATION 392.7
 BOTTOM ELEVATION 389.0
 CLEANOUT ELEV. 394.0
 BOTTOM DIMENSION .. 160' x 26'
 CREST WIDTH 20'

RIP RAP
 SEDIMENT TRAP DATA NO. 2
 DRAINAGE AREA 5.4 AC.
 VOLUME REQUIRED 9720 CU.FT.
 VOLUME PROVIDED 10944 CU.FT.
 TOP ELEVATION 394 x 5
 CREST ELEVATION 392 x 0
 BOTTOM ELEVATION 388 x 0
 CLEANOUT ELEV. 389 x 5
 BOTTOM DIMENSION 80' x 26'
 CREST WIDTH 15'

PLAN
 SCALE 1" = 50'

SEQUENCE OF CONSTRUCTION

- DAY 1 1. OBTAIN A GRADING PERMIT.
- DAY 2-6 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, EARTH DIKE, AND SEDIMENT TRAPS.
- DAY 7-30 3. GRADE SITE TO SUBGRADE AND STABILIZE IN ACCORDANCE WITH TEMPORARY SEEDBED NOTES.
- DAY 31-62 4. INSTALL STORM DRAINS AND UTILITIES.
- DAY 63-90 5. INSTALL CURB AND GUTTER AND PAVING.
- DAY 91-102 6. UPON APPROVAL OF THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROL DEVICES AND STABILIZE WITH PERMANENT SEEDBED NOTES AND CONVERT TRAP NO. 1 TO STORMWATER MANAGEMENT FACILITY AS FOLLOWS:

EXCAVATE BOTTOM OF STORMWATER MANAGEMENT FACILITY TO ELEVATION 388.0 AS SHOWN ON DRAWING NO. 6, SPREAD SEDIMENT ACROSS BERM NORTH OF STORMWATER MANAGEMENT FACILITY AND STABILIZE IN ACCORDANCE WITH PERMANENT SEEDBED NOTES.

NOTE: GRADING INDICATED WITHIN THE BUILDABLE LOTS IS TEMPORARY FOR THE PURPOSE OF ROAD CONSTRUCTION AND INSTALLATION OF SEDIMENT TRAPS. THE FINAL SITE GRADING FOR THE LOTS WILL BE SHOWN IN COMPLIANCE WITH THE MINIMUM R.S.C. ZONING LOT SIZE REQUIREMENTS ON THE SITE DEVELOPMENT PLAN.

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 COUNTY SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD COUNTY SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION."

James K. Tracy
 ENGINEER: _____ 3-9-89 DATE

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 COUNTY 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 COUNTY SOIL CONSERVATION DISTRICT."

James R. Moley Jr.
 DEVELOPER: _____ 3-9-89 DATE

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

James M. Hahn
 U.S. SOIL CONSERVATION SERVICE _____ 3/17/89 DATE

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

APPROVED *Robert Ziehm*
 HOWARD COUNTY, D. _____ 3/17/89 DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Paul W. Adams
 CHIEF, LAND DEVELOPMENT DIVISION _____ 3/23/89 DATE

Dorville W. Weiland
 CHIEF, BUREAU OF HIGHWAYS _____ 3/21/89 DATE

William Bean
 CHIEF, BUREAU OF ENGINEERING _____ 4-24-89 DATE

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

Paul S. J. ...
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT _____ 5/11/89 DATE

NO. DATE REVISION

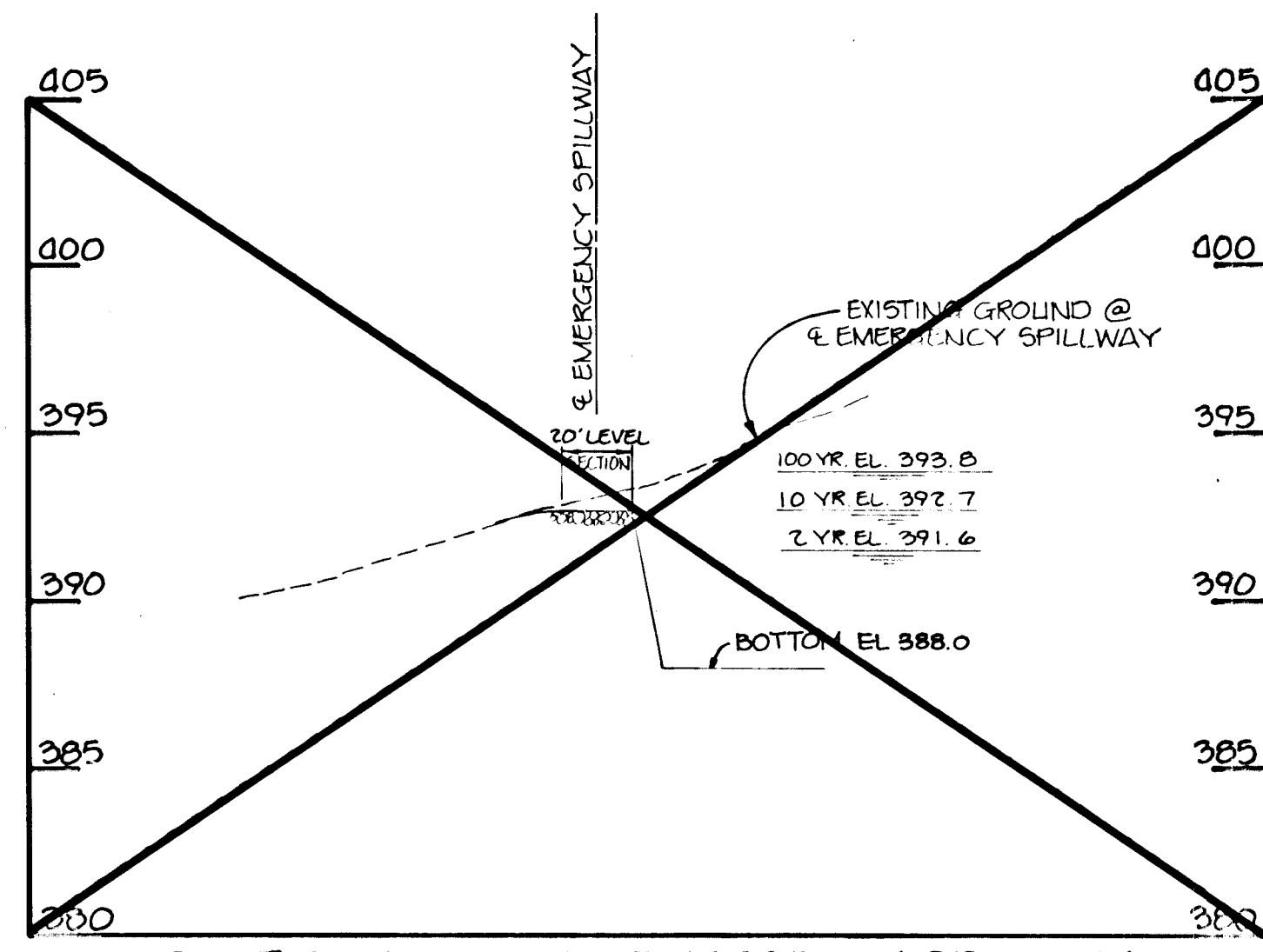
2-2-82 SEE SHEET 1 FOR REVISIONS
 2-3-83 ELIMINATE LAST 100' OF BERM @ EXISTING TREELINE

TRACY, SCHULTE & ASSOCIATES INC.
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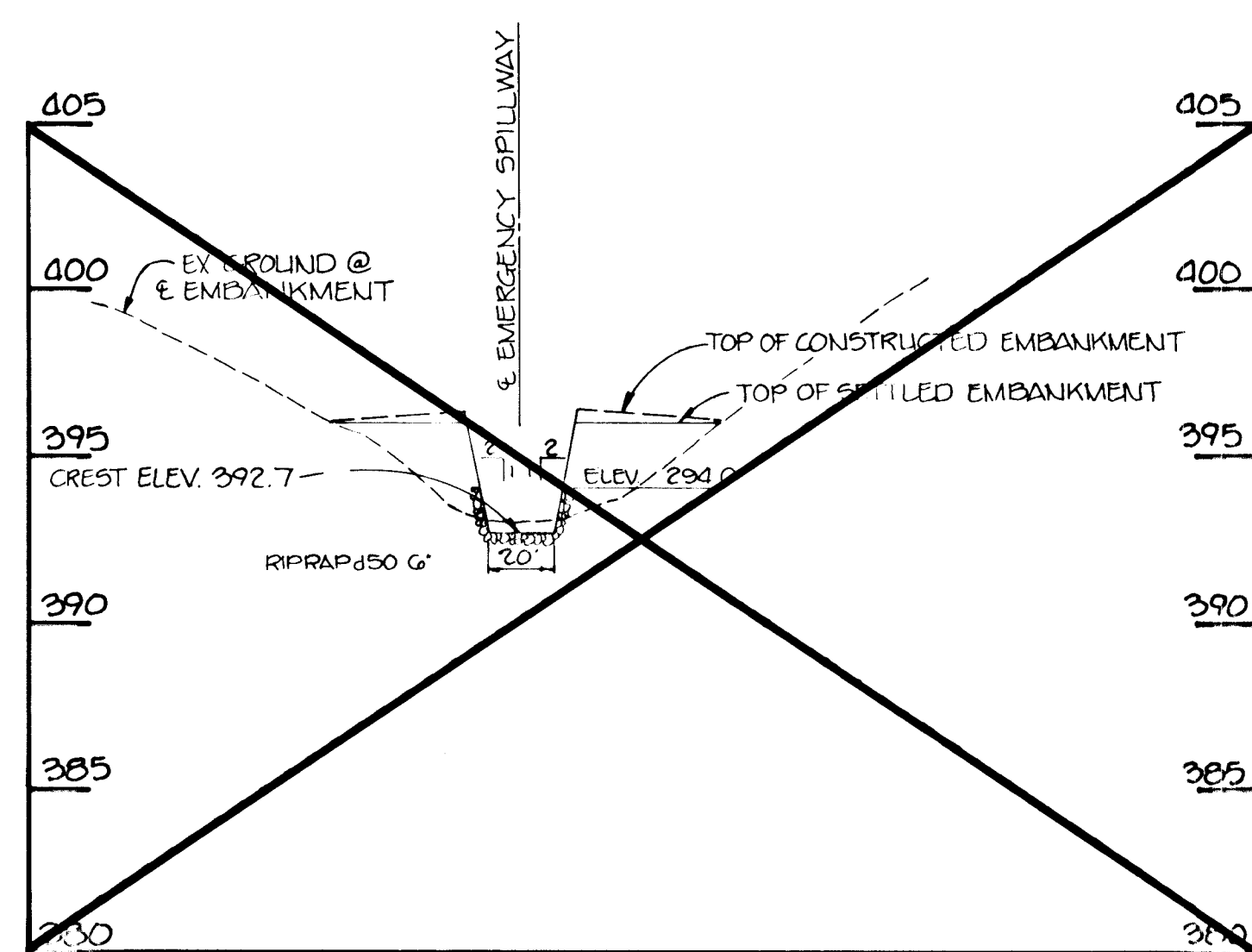
8480 Baltimore National Pike • Ellicott City, Maryland 21041 • (301) 465-6105



OWNER / DEVELOPER SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043	PROJECT LONG GATE SECTION 3, AREA 1
LONG GATE PARKWAY LIMITED PARTNERSHIP 8080 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21043	LOCATION PARCEL NO 10 TAX MAP NO 30, ZONING MAP NO 20 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE GRADING AND SEDIMENT CONTROL PLAN	DATE 5-88-88 SEPT. 28, 1988 MAR 1, 1989
DES DAM	DRN JH
SCALE 1" = 50'	PROJECT NO 0038 DRAWING 7 OF 10



SECTION THROUGH EMERGENCY SPILLWAY
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



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

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 to 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, frozen 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 8-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 tired 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 minimum 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.

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a slightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms 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.

VII. EROSION AND SEDIMENT CONTROL

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning pollution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the construction process.

REVISION: A 3-2-89
REMOVE SWM FACILITY, ADD 24" STORM DRAIN & TYPE 'K' INLET.
ADD BERM ALONG LONG GATE PKWY AND MD RTE 100.
SHOW SHA (OTHERS) IMPROVEMENTS TO LONG GATE PKWY.
REVISIONS TO SHEETS 2, 3, 6, 7 & 9.

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."

ENGINEER: *James K. Tracy* DATE: 3-9-89

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."

DEVELOPER: *James R. Murphy* DATE: 3-9-89

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.

[Signature] DATE: 3/17/89
HOWARD COUNTY SOIL CONSERVATION SERVICE

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

[Signature] DATE: 3/17/89
HOWARD COUNTY S.C.D.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
[Signature] DATE: 3/23/89
CHIEF, LAND DEVELOPMENT DIVISION

[Signature] DATE: 3/21/89
CHIEF, BUREAU OF HIGHWAYS

[Signature] DATE: 4-29-89
CHIEF, BUREAU OF ENGINEERING

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING
[Signature] DATE: 5/11/89
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

REVISION: A 3-15-89
LIMIT OF WORK - LONG GATE PKWY - STA. 10+15

NO.	DATE	REVISION

Depth (feet)	Sample #	Depth (feet)	Description of Materials	Remarks
0.0	1	0.0	Top Soil and Root Zone	
1.0	2	1.0	Brown, moist, Silty fine to medium SAND (SP), trace mica	
2.0	3	2.0	Loamy Sand / Sandy Loam	
3.0	4	3.0	Brown, moist, Silty fine to medium SAND (SP), Little mica	
4.0	5	4.0	Sand / Loamy Sand	
5.0	6	5.0		
6.0	7	6.0		
7.0	8	7.0		
8.0	9	8.0		
9.0	10	9.0		
10.0	11	10.0		
11.0	12	11.0		
12.0	13	12.0	Bottom of Test Pit 12.0 ft	

Depth (feet)	Sample #	Depth (feet)	Description of Materials	Remarks
0.0	1	0.0	Top Soil and Root Zone	
1.0	2	1.0	Brown, moist, Silty fine to medium SAND (SP), trace mica	
2.0	3	2.0	Loamy Sand / Sandy Loam	
3.0	4	3.0	Brown, Black, moist, Silty fine to medium SAND (SP), Little mica	
4.0	5	4.0	Sand / Loamy Sand	
5.0	6	5.0		
6.0	7	6.0		
7.0	8	7.0		
8.0	9	8.0		
9.0	10	9.0		
10.0	11	10.0		
11.0	12	11.0		
12.0	13	12.0	Bottom of Test Pit 12.0 ft	

TEST PIT DATA

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James K. Tracy

OWNER / DEVELOPER
SECURITY DEVELOPMENT CORP.
PO BOX 417
ELICOTT CITY, MARYLAND 21043

PROJECT
LONG GATE
SECTION 3, AREA 1

LOCATION
PARCEL NO. 1B
TAX MAP NO. 30 ZONING MAP NO. 30
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

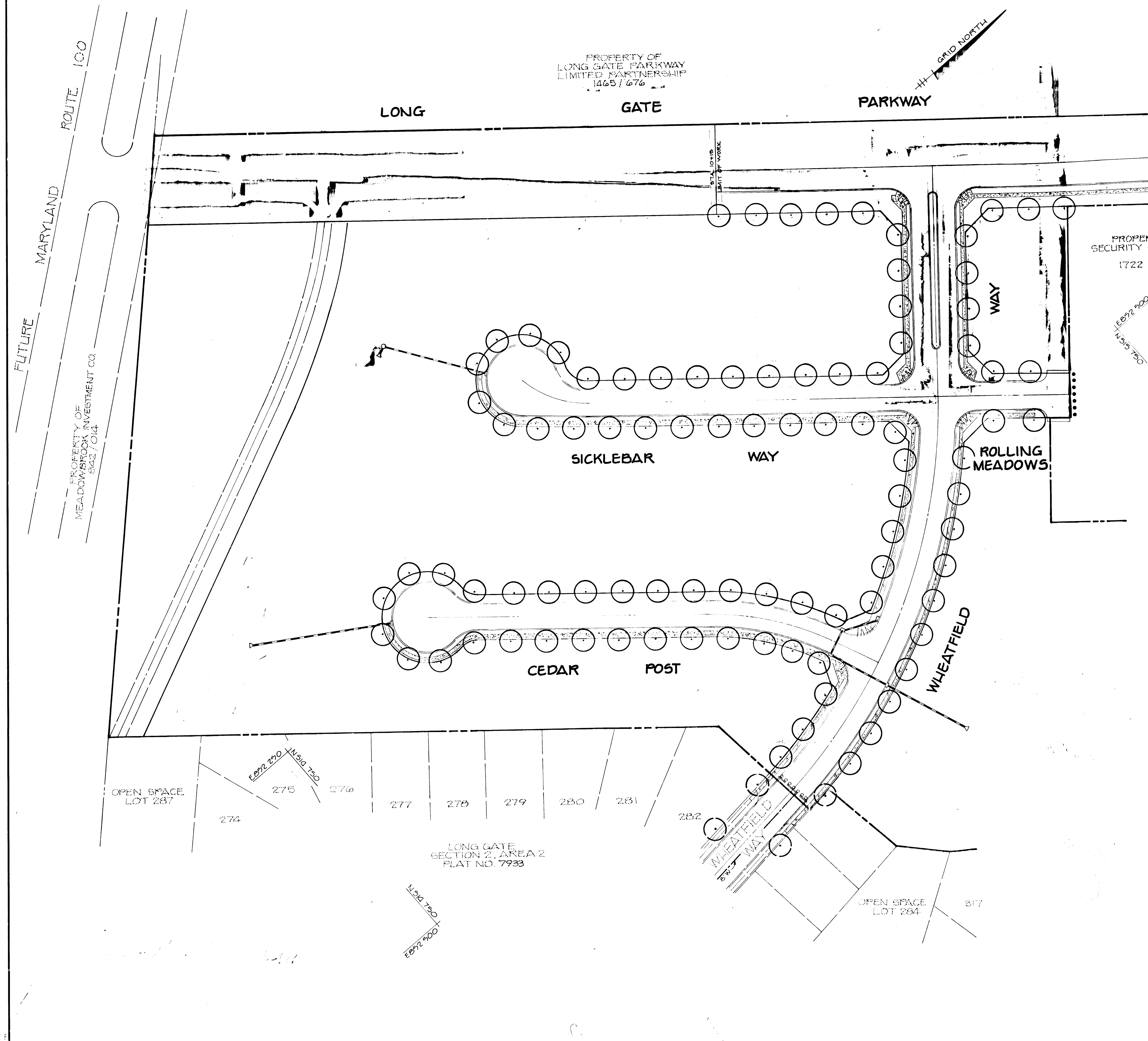
TITLE
STORM WATER MANAGEMENT
NOTES AND DETAILS

DATE
SEPT. 28, 1988
MAR. 1, 1989

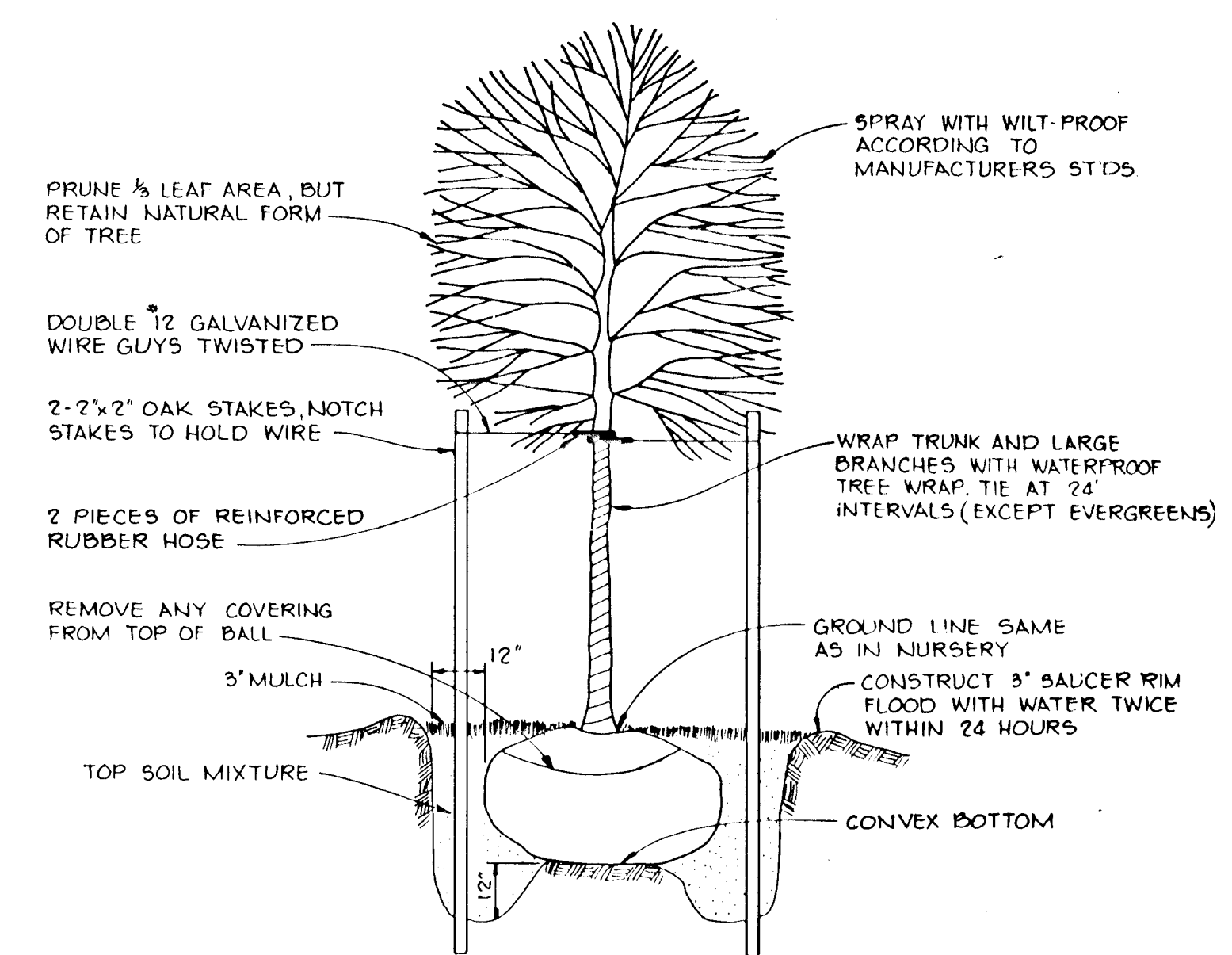
PROJECT NO. 0038

SCALE AS SHOWN
DRAWING 9 OF 10

2911



PLANT LIST			
SYMBOL	QUANTITY	NAME	REMARKS
○		ACER RUBRUM Red Maple OCTOBER GLORY	2 1/2 Min Cal B4B Full Head
TOTAL	102		



TREE PLANTING DETAIL
NO SCALE

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	3/23/89
<i>Paul W. ...</i> CHIEF, LAND DEVELOPMENT DIVISION	DATE
<i>Bruce W. ...</i> CHIEF, BUREAU OF HIGHWAYS	3/21/89
DATE	
<i>James R. ...</i> CHIEF, BUREAU OF ENGINEERING	4-29-89
DATE	
APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING	5/11/89
<i>David S. ...</i> CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	DATE
REVISION	
1-15-89	REVISE EVENT SECTION
2-2-89	SEE SHEET 1 FOR REVISIONS
NO	DATE
	REVISION

TRACY, SCHULTE & ASSOCIATES INC.
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James R. ...

OWNER / DEVELOPER	PROJECT
SECURITY DEVELOPMENT CORP PO BOX 417 ELICOTT CITY, MARYLAND 21043	LONG GATE SECTION 3, AREA 1
LONG GATE PARKWAY LIMITED PARTNERSHIP 8480 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21043	LOCATION PARCEL NO 18 TAX MAP NO 30, ZONING MAP NO 20 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND
TITLE	PLANTING PLAN
5-88-08	WP-88-54
DATE	SEPT 28, 1988
	MAR 1, 1989
	PROJECT NO 0038
DES DAM	DRN JH
SCALE	1" = 50'
	DRAWING 10 OF 10

1162