

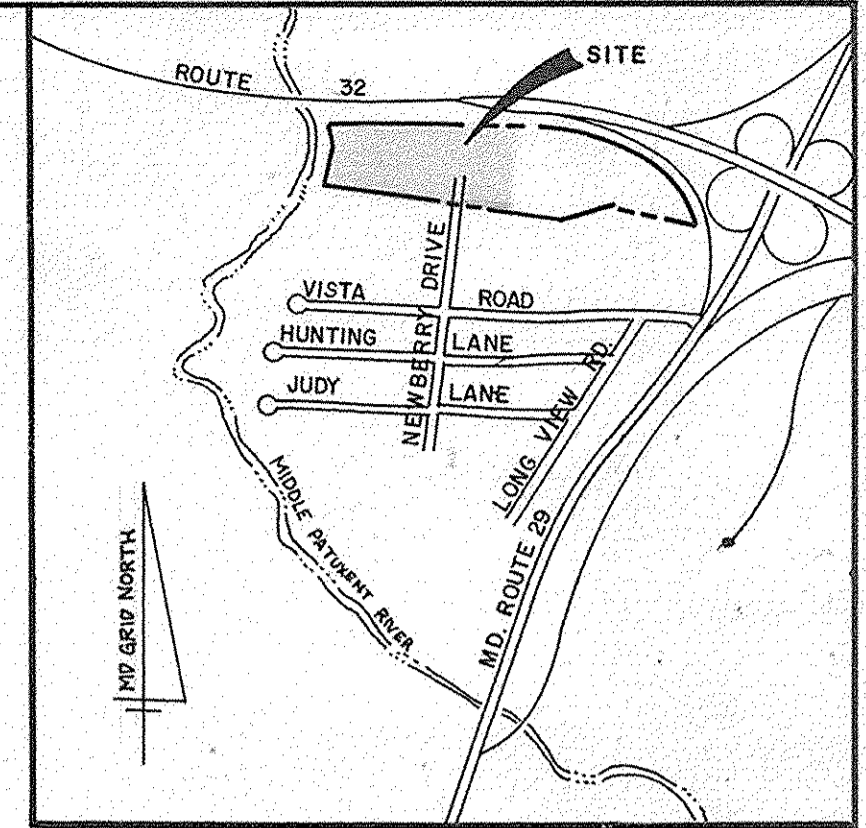
VILLAGE OF HICKORY RIDGE

SECTION 6 AREA I

5TH ELECTION DISTRICT

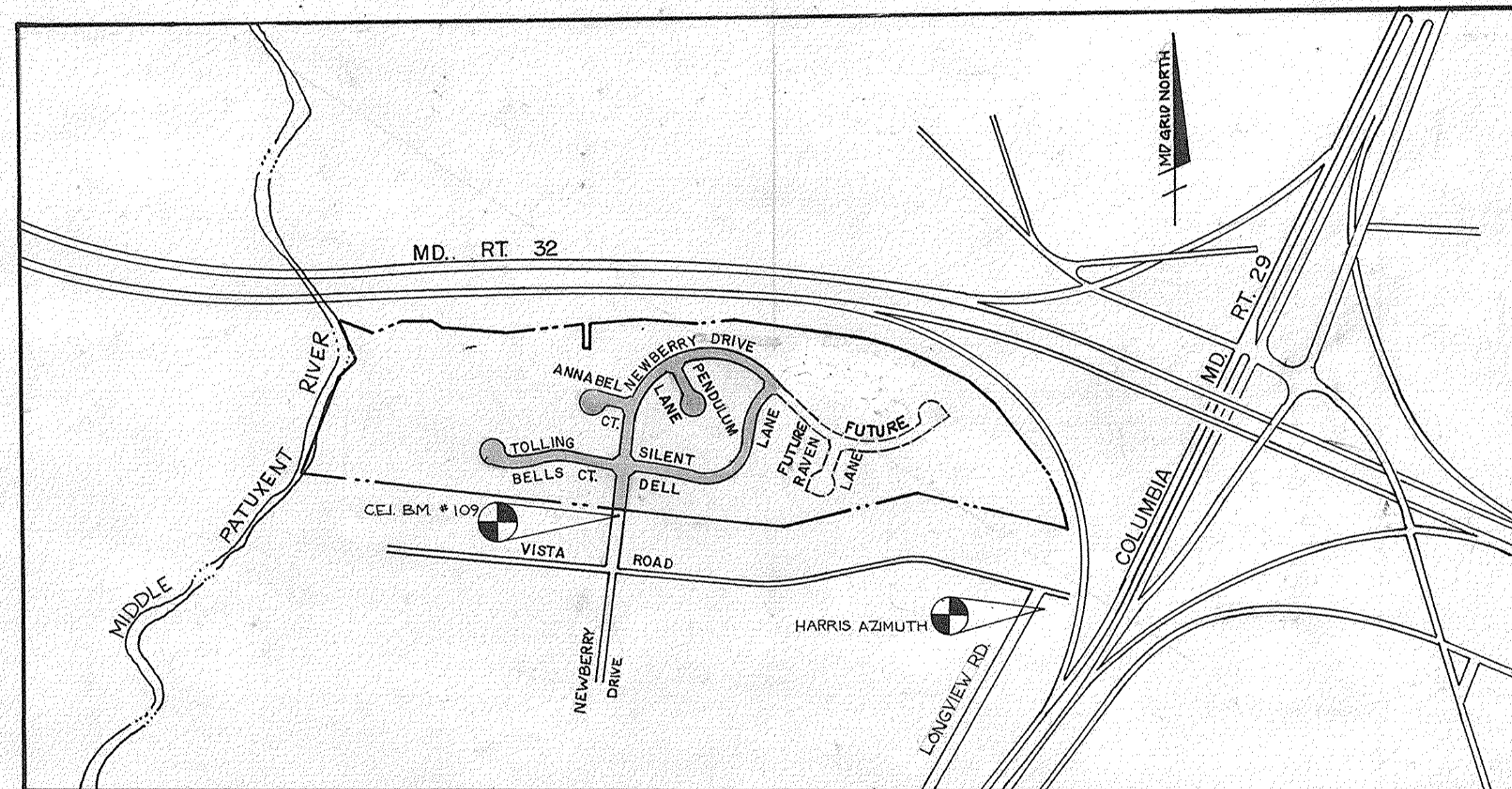
HOWARD COUNTY, MD.

PHASE 1



VICINITY MAP
SCALE 1" = 2000'

- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 - ALL UTILITIES SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF CONSTRUCTION.
 - ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN.
 - STORM DRAIN TRENCHES WITHIN ROAD RIGHTS OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
 - APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATIONS 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 ANY CONSTRUCTION.
 - TEMPORARY COMPACTED 18" HIGH EARTH FILL DIVERSION DIKS SHALL BE CONSTRUCTED ABOVE THE LIPS OF FILL SLOPES ON THE R.O.W. CONCURRENTLY WITH THE INITIAL GRADING AND DIRECTED TO UNDISTURBED SOD AREAS AT THE END OF EACH DAY.
 - CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS AND PERMITS AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE NO. 992-2436.
 - ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
 - ALL REINFORCED CONCRETE FOR STORM DRAIN STRUCTURES SHALL HAVE A MINIMUM OF 28 DAYS STRENGTH OF 3500 p.s.i.
 - ALL SWALES AND SLOPES SHALL BE PERMANENTLY SEEDED. SEE THE SEED SPECIFICATIONS ON SHEET 13 OF 13.
 - INSTALLATION OF TRAFFIC CONTROL DEVICES, MARKING AND SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES 1978 OR LATEST REVISION.
 - STABIENKA (FILTER CLOTH T-100) OR EQUAL SHALL BE PLACED UNDER ALL STONE RIPRAP (FULL WIDTH AND LENGTH OF STONE).
 - STONE FOR RIPRAP SHALL BE AS SPECIFIED ON THE DRAWINGS.
 - CONTRACTOR TO NOTIFY "MISS UTILITY" PHONE (1)800-257-7777 AT LEAST THREE (3) DAYS BEFORE STARTING WORK SHOWN ON THIS/ THESE DRAWING(S).
 - DESIGNED TRAFFIC SPEED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOLUME III STANDARDS. DESIGN SPEED FOR ALL ROADS AS SHOWN ON DRAWING NO. 2 OF 13.
 - ALL ELEVATIONS SHOWN ARE BASED ON U.S.C. AND G.S. MEAN SEA LEVEL DATUM 1929.
 - ALL COORDINATES BASED ON MARYLAND STATE GRID SYSTEM.
 - 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.
 - CONTRACTOR TO RESTORE ALL EXISTING PAVING, SIDEWALKS OR LAWNS AFFECTED BY THE CONSTRUCTION SHOWN HEREON TO A CONDITION COMPARABLE TO THAT EXISTING PRIOR TO CONSTRUCTION.
 - ALL STORM DRAIN BEDDING TO BE CLASS 'C' EXCEPT WHERE OTHERWISE NOTED.
 - TOP OF INLET ELEVATIONS SHOWN ARE GIVEN AT THE TOP OF CURB AT THE CENTER OF THE INLET.
 - STREET TREES (113 TOTAL)
THE LOCATION, TYPE AND NUMBER OF TREES SHOWN ON THIS PLAN ARE TENTATIVE AND ARE USED FOR BOND PURPOSES ONLY. THE FINAL LOCATION AND VARIETY OF TREES MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND BUILDERS LANDSCAPE PROGRAM. BOND RELEASE IS CONTINGENT UPON SECTION 16.131 OF THE HOWARD COUNTY SUBDIVISION REGULATIONS, AS APPROVED BY THE OFFICE OF PLANNING AND ZONING.
 - EXISTING PAVING ON NEWBERRY DRIVE TO BE SCARIFIED AND LEFT IN PLACE



SCALE 1" = 600'

NO.	INDEX OF SHEETS
1	TITLE SHEET
2	DETAIL SHEET
3	ROAD PLAN AND PROFILE: NEWBERRY DRIVE STA. 0+40 TO 17+10
4	ROAD PLAN AND PROFILE: SILENT DELL LANE STA. 0+00 TO 10+34.34
5	ROAD PLAN AND PROFILE: TOLLING BELLS COURT STA. 0+00 TO 5+64.41
6	ROAD PLAN AND PROFILE: ANNABEL COURT STA. 0+00 TO 1+03.79
7	ROAD PLAN AND PROFILE: PENDULUM LANE STA. 0+00 TO 1+54.11
8	STORM DRAIN PROFILES
9	STORM DRAIN PROFILES
10	DRAINAGE AREA MAP
11	DRAINAGE AREA MAP
12	GRADING AND SEDIMENT CONTROL PLAN
13	GRADING AND SEDIMENT CONTROL PLAN
14	SEDIMENT CONTROL DETAILS

BENCH MARKS

CEI BENCHMARK #109 ELEV. 341.64
TOP OF P.K. NAIL NORTHEAST 270'± FROM INTERSECTION OF VISTA RD. AND NEWBERRY DR. 16' FROM NORTHWEST CURB.

HOWARD CO. BENCHMARK #2340007 ELEV. 399.66
HARRIS AZIMUTH (MONUMENT SET IN CONCRETE) AT SOUTHEAST CORNER OF VISTA RD. AND LONGVIEW RD. 50' FROM CURB OF VISTA RD. 15' FROM CURB OF LONGVIEW RD.

APPROVED: DEPARTMENT OF PUBLIC WORKS

Dominick W. McKeown 7/1/88
CHIEF - BUREAU OF ENGINEERING DATE

Robert Anderson 7/1/88
CHIEF - BUREAU OF HIGHWAYS - DESIGNER (acting) DATE

Paul W. ... 6/27/88
CHIEF - LAND DEVELOPMENT DIVISION DATE

APPROVED: OFFICE OF PLANNING AND ZONING

James J. ... 7/13/88
CHIEF - DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

Date	No	Revision Description
		AS-BUILT

DATE: JULY 1991
NOTE: GUTSCHICK, LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY.

THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY

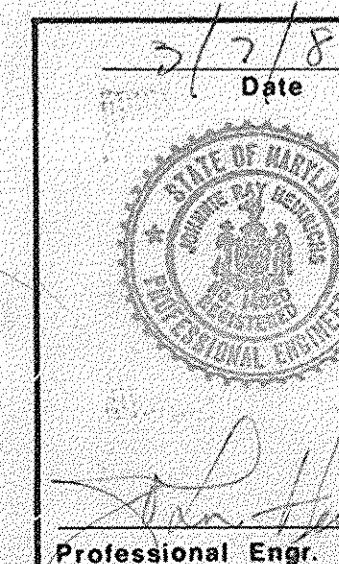
THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

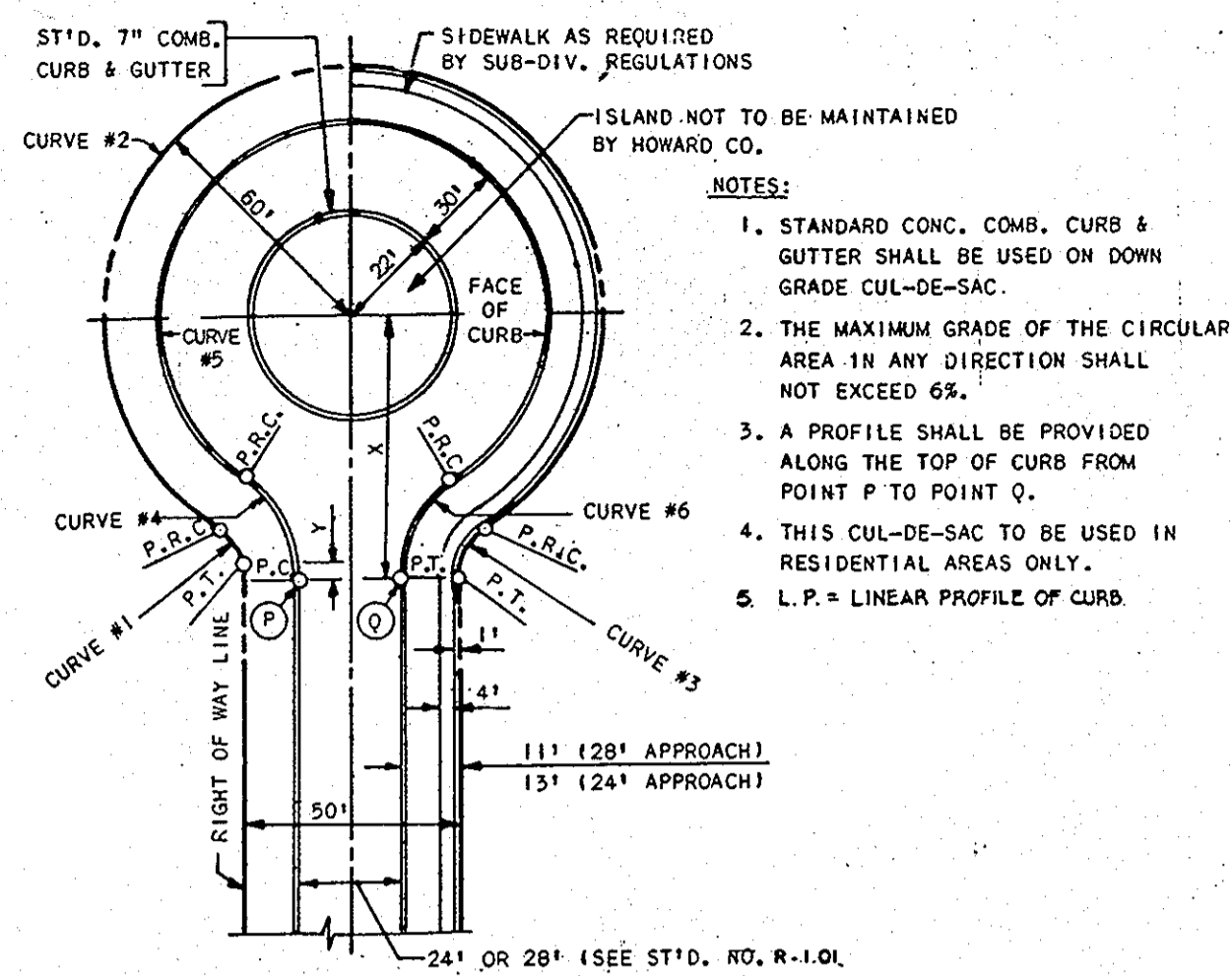
CENTURY ENGINEERS, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21204

AREA: VILLAGE OF HICKORY RIDGE
SECTION 6 AREA I
TAX MAP 41 PARCEL 45
5th ELECTION DISTRICT OF HO. CO., MD

TITLE: **TITLE SHEET**

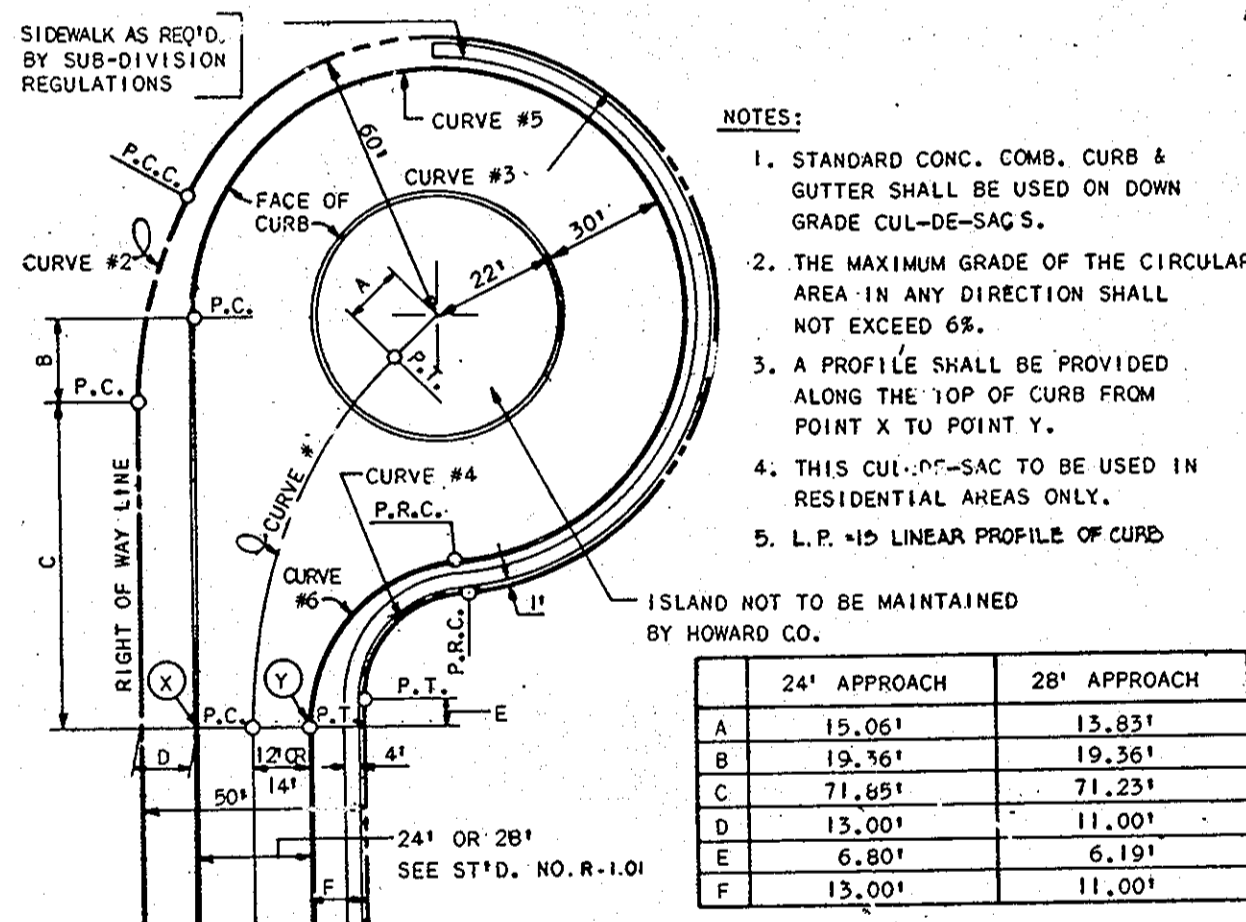
Des By	GBZ	Scale	AS SHOWN	Proj	No 87-7034
Drn By	ETJ	Date	3-9-88	Drawing No.	1 OF 13
Chk By	JRH	Approved			





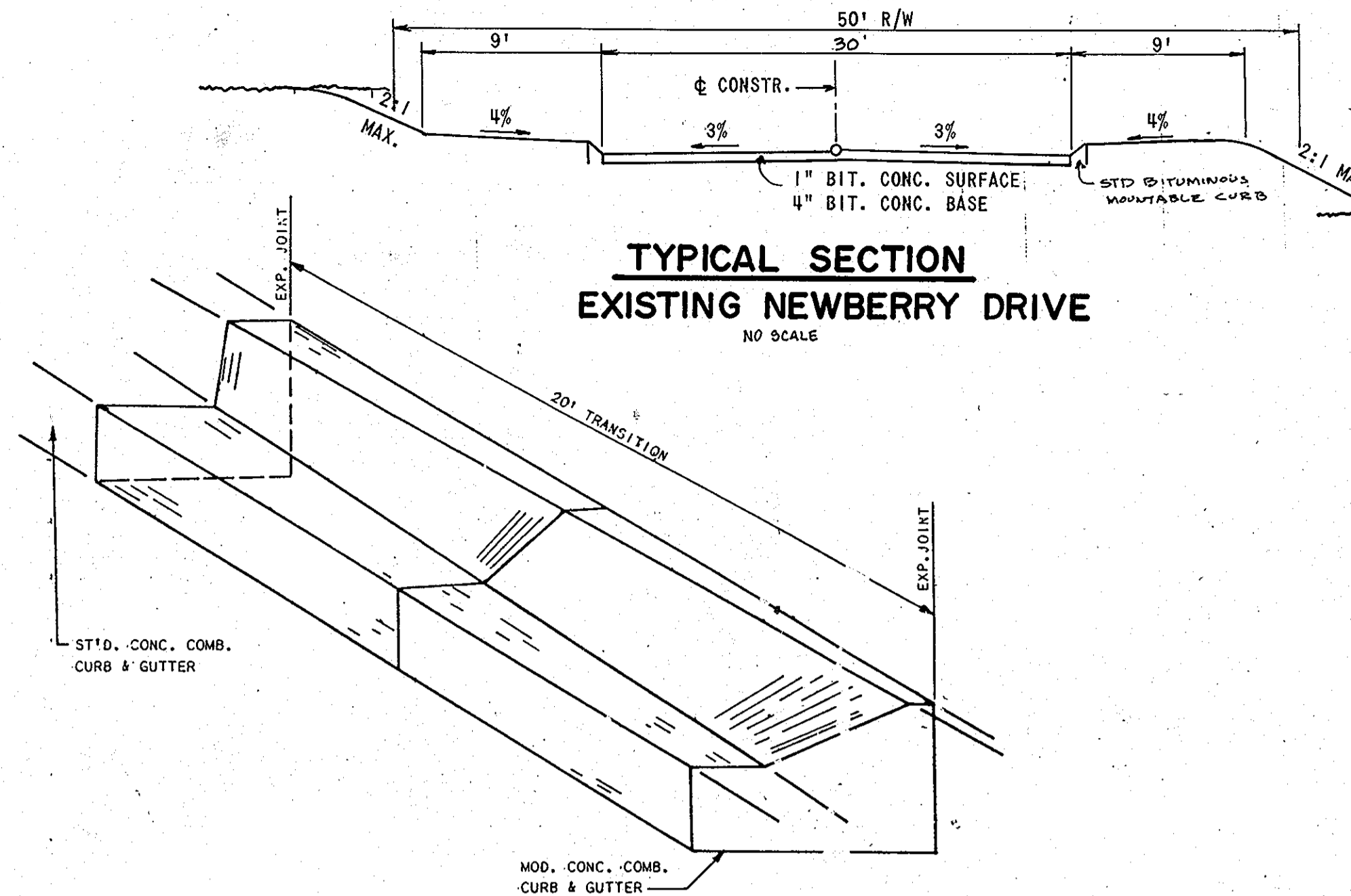
CURVE DATA				
CURVE NO.				
	1	2	4	5
24' APPROACH: X=75.89', Y=7.16', L.P. 341.05'				
Δ	53°58'02"	287°56'10"	55°34'57"	291°09'55"
R	25.00'	60.00'	40.00'	52.00'
L	23.55'	301.93'	38.80'	264.25'
T	12.73'	-	21.08'	-
L.C.	22.69'	-	37.30'	-

CUL DE SAC FOR 24 FT. PAVEMENT WIDTH
NO SCALE

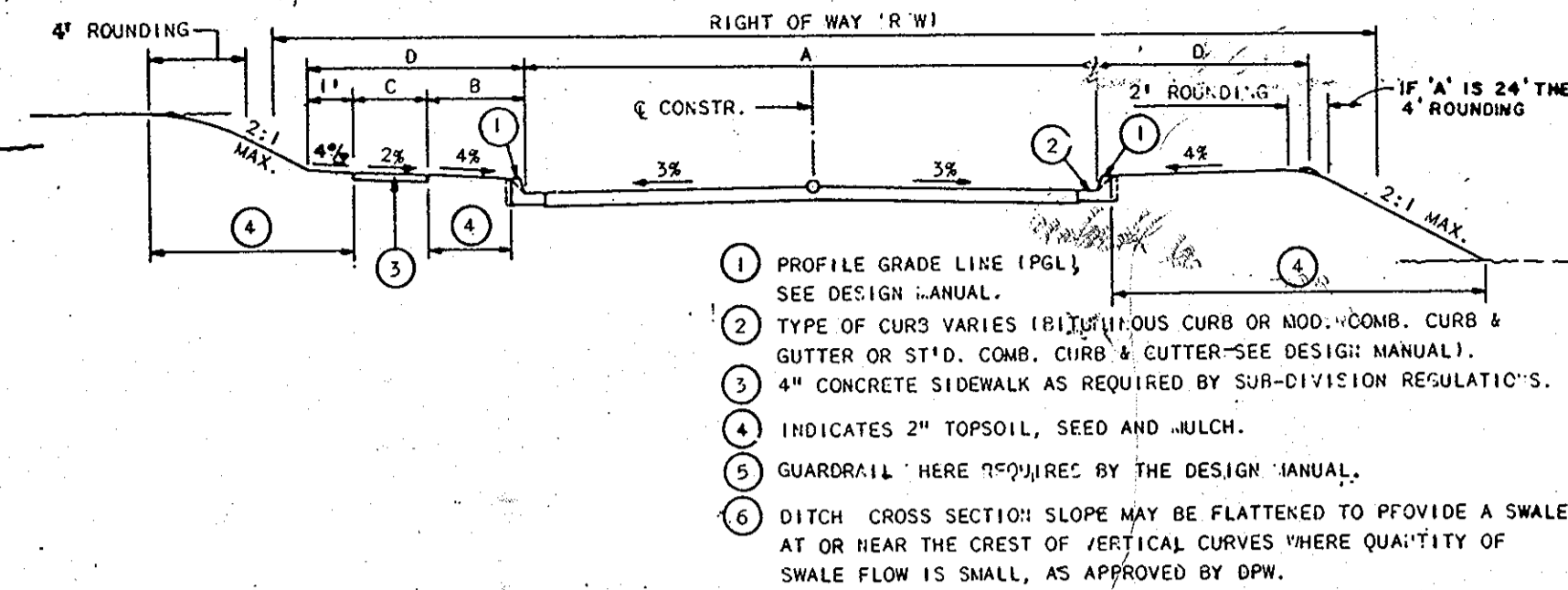


CURVE DATA					
CURVE NO.					
	1	2	3	4	5
24' APPROACH L.P. = 387.05'					
Δ	41°15'10"	28°57'18"	234°17'19"	83°14'37"	262°30'19"
R	121.17'	100.00'	60.00'	25.00'	52.00'
L	87.24'	50.54'	245.35'	36.32'	238.24'
T	45.51'	25.82'	-	22.21'	-
L.C.	85.37'	50.00'	-	33.21'	-
28' APPROACH L.P. = 382.80'					
Δ	39°59'32"	28°57'18"	234°17'19"	83°14'37"	259°59'05"
R	124.48'	100.00'	60.00'	25.00'	52.00'
L	86.89'	50.54'	245.35'	36.32'	239.95'
T	45.30'	25.82'	-	22.21'	-
L.C.	85.14'	50.00'	-	33.21'	-

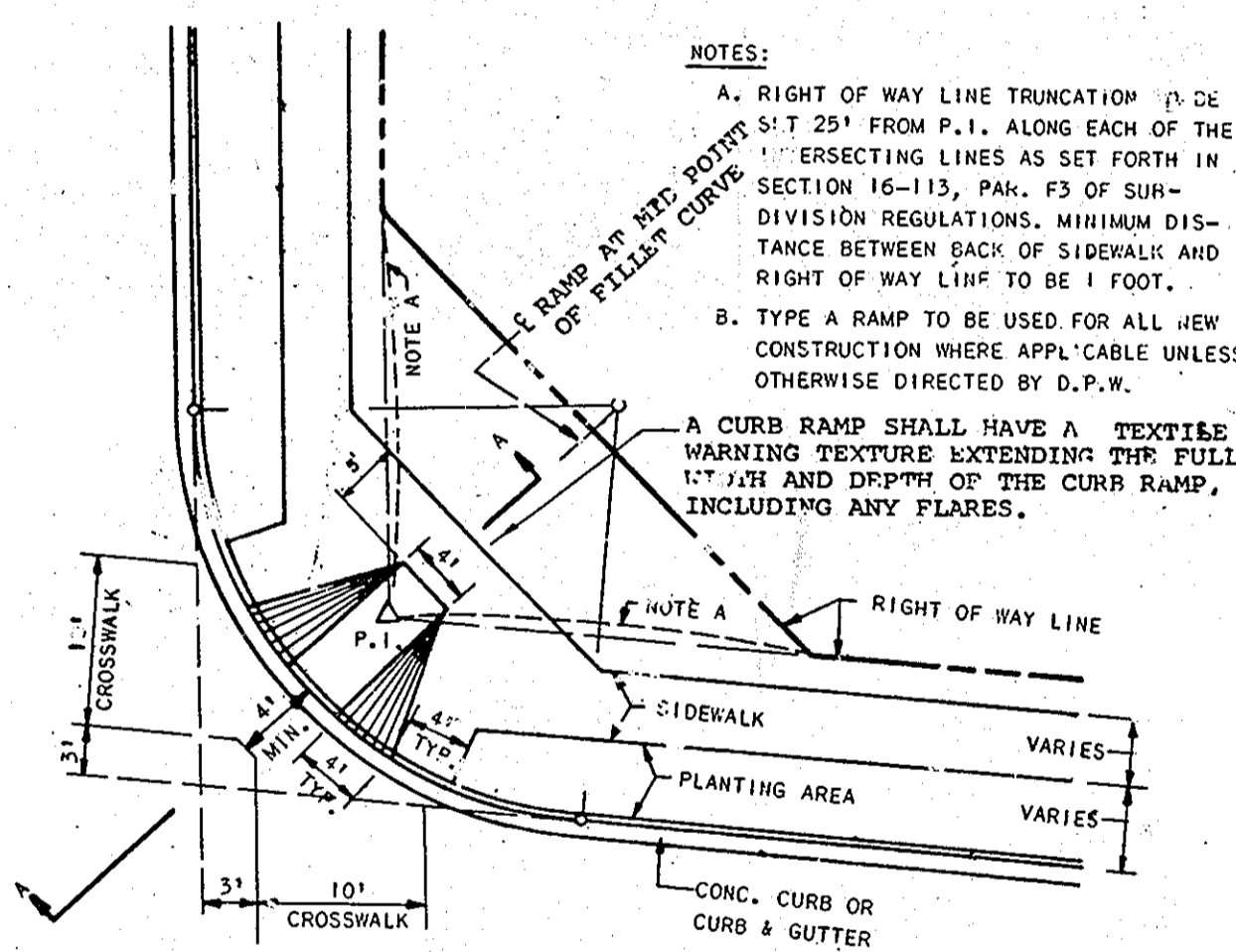
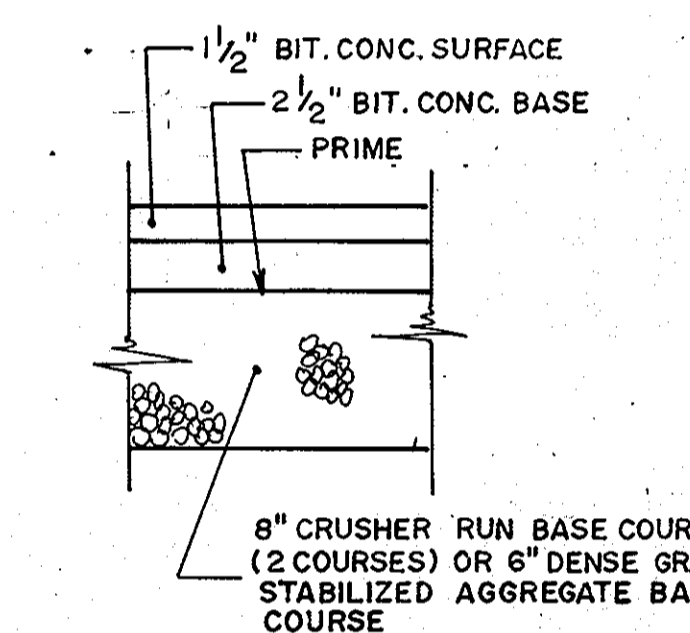
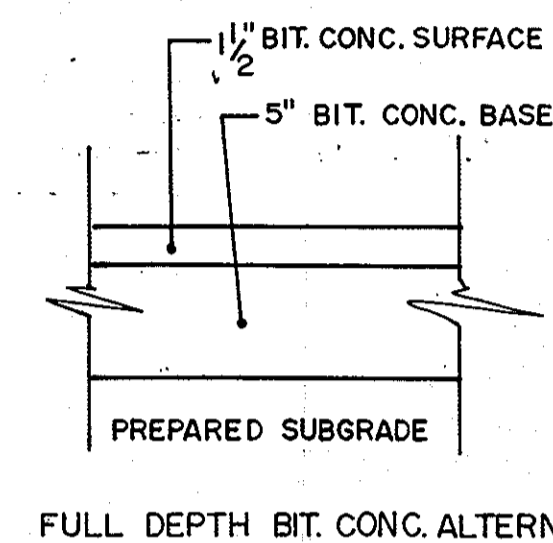
OFFSET CUL DE SAC FOR
24 FT. AND 28 FT. PAVEMENT WIDTH
NO SCALE



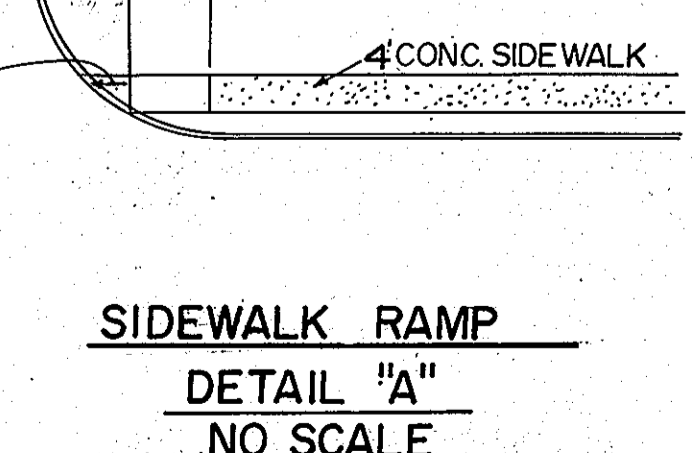
CONCRETE CURB AND GUTTER TRANSITION
NO SCALE



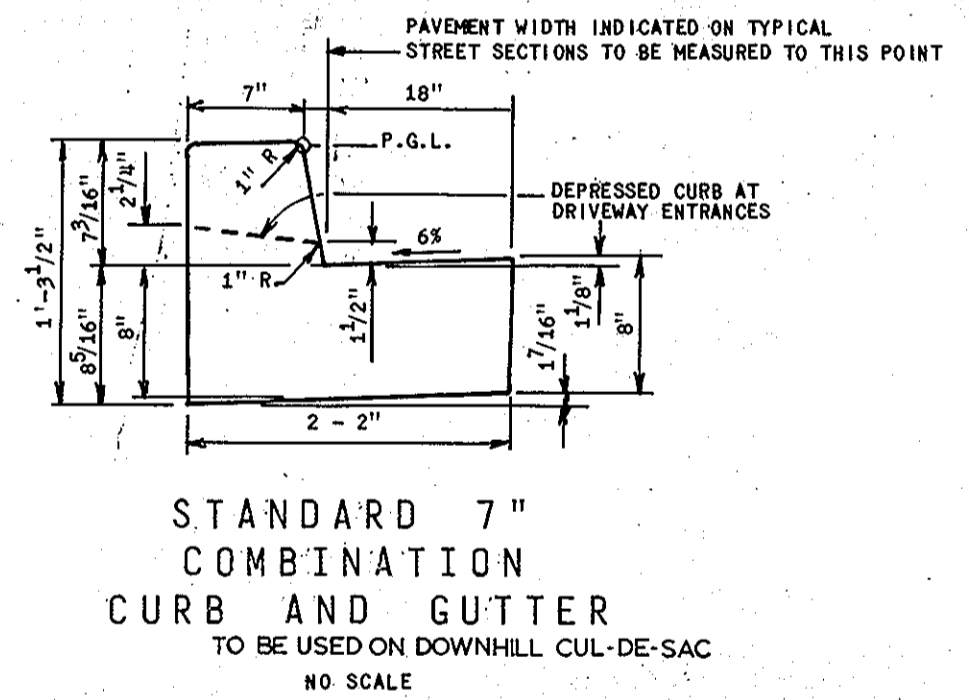
ROAD NAME & STATION	A	B	C	D	R/W	PAVING SECTION	DESIGN SPEED
NEWBERRY DRIVE (OFF SITE) LOCAL ROAD STA. 0465 TO STA. 2485.51	30'			9'	50'		30mph
NEWBERRY DRIVE LOCAL ROAD STA. 2485.51 TO STA. 3485.51	30'	6'	4'	10'	50'	P-2	30mph
NEWBERRY DRIVE LOCAL ROAD STA. 3485.51 TO STA. 5405.51	30'	6'	4'	10'	50'	P-2	30mph
NEWBERRY DRIVE LOCAL ROAD STA. 5405.51 TO STA. 17410.51	30'	6'	4'	10'	50'	P-2	30mph
SILENT DELL LANE LOCAL ROAD STA. 0400 TO STA. 10494.34	30'	4'	4'	9'	50'	P-2	30mph
TOLLING BELLS COURT CUL DE SAC STA. 0400 TO STA. 5464.41	28'	4'	4'	9'	50'	P-2	25mph
ANNABEL COURT CUL DE SAC STA. 0400 TO STA. 1403.79	24'	-	-	10'	50'	P-2	25mph
PENDULUM COURT CUL DE SAC STA. 0400 TO STA. 1464.11	24'	-	-	10'	50'	P-2	25mph



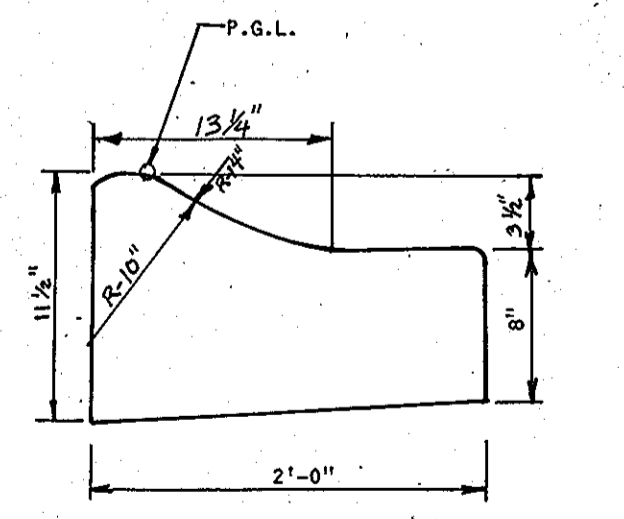
SIDEWALK RAMP
NO SCALE



SIDEWALK RAMP
DETAIL "A"
NO SCALE



STANDARD 7" COMBINATION CURB AND GUTTER
TO BE USED ON DOWNHILL CUL-DE-SAC
NO SCALE



MODIFIED COMBINATION CURB AND GUTTER
NO SCALE

APPROVED: DEPARTMENT OF PUBLIC WORKS

James W. Walden 7/1/88
CHIEF-BUREAU OF ENGINEERING

Chakrabarti Anderson Calca 7/1/88
CHIEF-BUREAU OF HIGHWAYS

Donald J. Spang 6/27/88
CHIEF-LAND DEVELOPMENT DIVISION

APPROVED: OFFICE OF PLANNING AND ZONING

David S. McCann 7/1/88
CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

Date	No	Revision Description
		AS-BUILT

DATE: JULY 1991
NOTE: CURB, CHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY.

THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY

THE ROUSE BUILDING
10275 LITTLE PATUXENT PARKWAY
COLUMBIA, MARYLAND 21044

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS • PLANNERS
32 WEST ROAD
TOWSON, MARYLAND 21284

AREA: VILLAGE OF HICKORY RIDGE
SECTION 6 AREA 1
TAX MAP 41 PARCEL 45
5th ELECTION DISTRICT OF HO. CO., MD.

TITLE: DETAIL SHEET

Des By: GBZ	Scale: AS SHOWN	Proj No: 87-7034
Drn By: RF	Date: 2-16-88	Drawing No. 2 OF 13
Chk By: JRH	Approved	


AS-BUILT F-88-199c

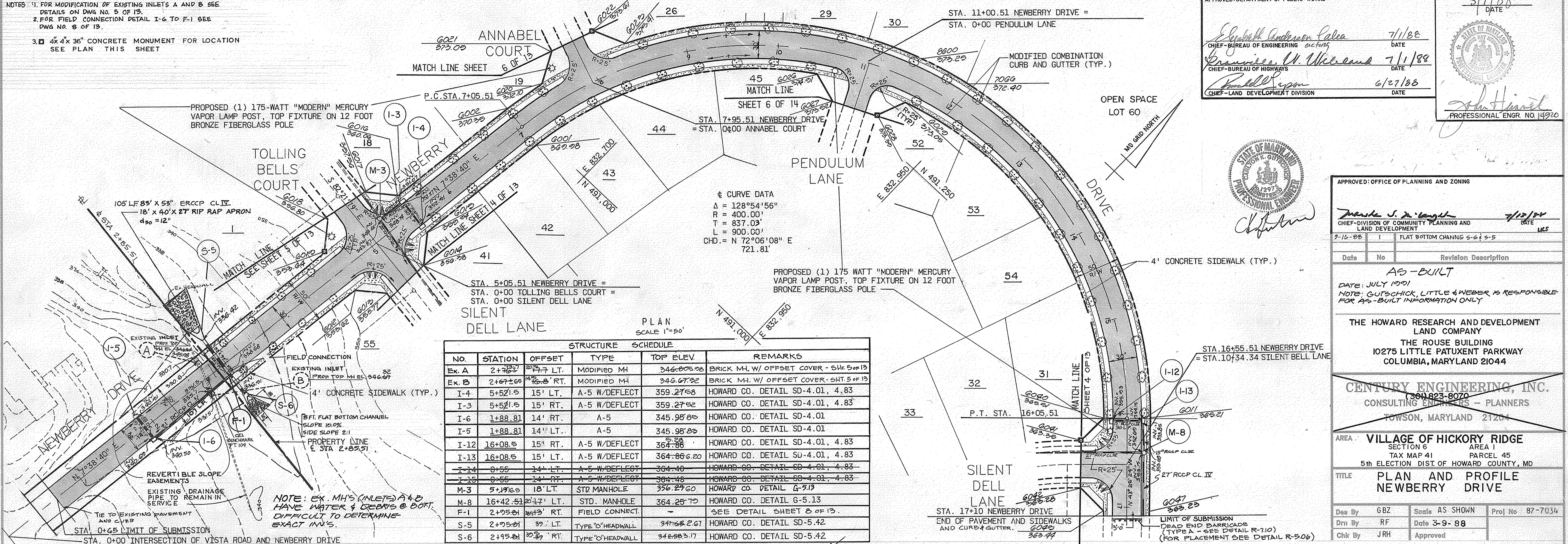
A2

- NOTES: 1. FOR MODIFICATION OF EXISTING INLETS A AND B SEE DETAILS ON DWG NO. 5 OF 13.
 2. FOR FIELD CONNECTION DETAIL I-6 TO F-1 SEE DWG NO. 8 OF 13.
 3. 4" x 4" x 36" CONCRETE MONUMENT FOR LOCATION SEE PLAN THIS SHEET

APPROVED: DEPARTMENT OF PUBLIC WORKS

Elizabeth Anderson Calva 7/1/88
 CHIEF - BUREAU OF ENGINEERING DATE
Francine H. Wilcox 7/1/88
 CHIEF - BUREAU OF HIGHWAYS DATE
Paul R. Ryan 6/27/88
 CHIEF - LAND DEVELOPMENT DIVISION DATE

3/7/88
 DATE

 John H. Havel
 PROFESSIONAL ENGR. NO. 14920



STRUCTURE SCHEDULE

NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
Ex. A	2+72.27	14' RT.	MODIFIED MH	346.805.08	BRICK MH. W/ OFFSET COVER - SHT. 5 OF 13
Ex. B	2+72.27	14' RT.	MODIFIED MH	346.67.92	BRICK MH. W/ OFFSET COVER - SHT. 5 OF 13
I-4	5+52.15	15' LT.	A-5 W/DEFLECT	359.2758	HOWARD CO. DETAIL SD-4.01, 4.83
I-3	5+52.15	15' RT.	A-5 W/DEFLECT	359.2752	HOWARD CO. DETAIL SD-4.01, 4.83
I-6	1+88.81	14' RT.	A-5	345.98.88	HOWARD CO. DETAIL SD-4.01
I-5	1+88.81	14' LT.	A-5	345.98.88	HOWARD CO. DETAIL SD-4.01
I-12	16+08.51	15' RT.	A-5 W/DEFLECT	364.88	HOWARD CO. DETAIL SD-4.01, 4.83
I-13	16+08.51	15' LT.	A-5 W/DEFLECT	364.866.20	HOWARD CO. DETAIL SD-4.01, 4.83
I-24	0+55	14' LT.	A-5 W/DEFLECT	364.40	HOWARD CO. DETAIL SD-4.01, 4.83
I-25	0+55	14' RT.	A-5 W/DEFLECT	364.48	HOWARD CO. DETAIL SD-4.01, 4.83
M-3	2+19.69	18' LT.	STD. MANHOLE	356.27.60	HOWARD CO. DETAIL G-5.13
M-8	16+42.51	20' LT.	STD. MANHOLE	364.25.70	HOWARD CO. DETAIL G-5.13
F-1	2+25.81	39' RT.	FIELD CONNECT.	-	SEE DETAIL SHEET 8 OF 13.
S-5	2+25.81	39' LT.	TYPE 'D' HEADWALL	347.68.2.67	HOWARD CO. DETAIL SD-5.42
S-6	2+19.69	30' RT.	TYPE 'D' HEADWALL	342.863.17	HOWARD CO. DETAIL SD-5.42

APPROVED: OFFICE OF PLANNING AND ZONING

Mark S. J. ... 7/1/88
 CHIEF - DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

3-16-88
 1 FLAT BOTTOM CHANNEL 6-6' x 5-5'

Date	No.	Revision Description
		AS-BUILT

DATE: JULY 1991
 NOTE: GUTSCHICK, LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY

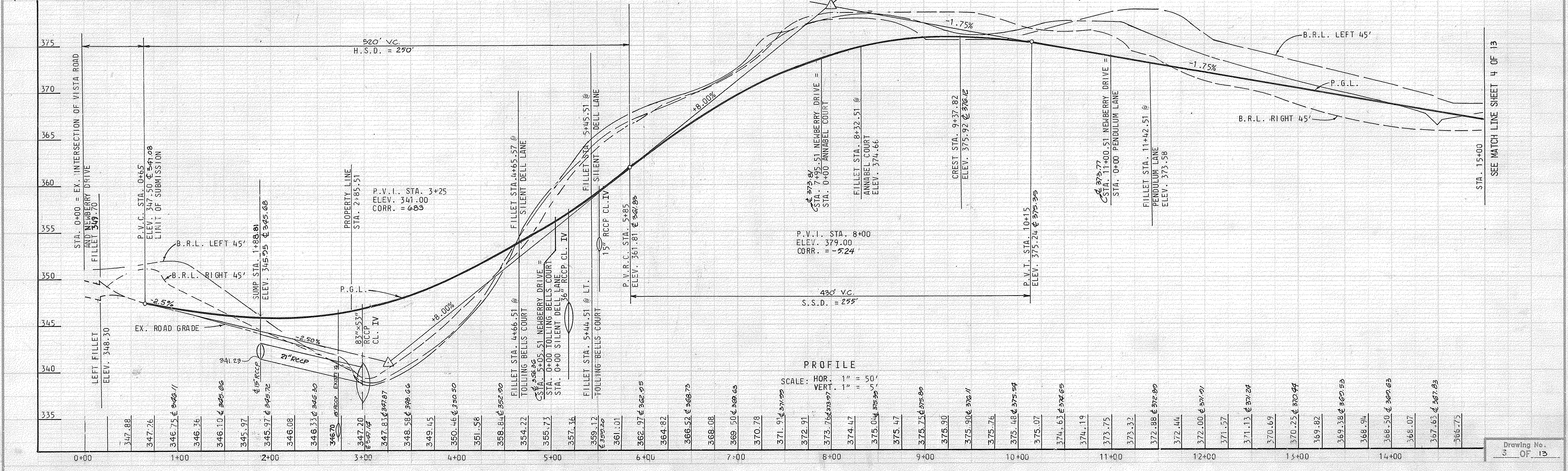
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21284

AREA: VILLAGE OF HICKORY RIDGE SECTION 6 AREA I
 TAX MAP 41 PARCEL 45
 5th ELECTION DIST. OF HOWARD COUNTY, MD

TITLE: PLAN AND PROFILE NEWBERRY DRIVE

Des By: GBZ Scale: AS SHOWN Proj No: 87-7034
 Dwn By: RF Date: 3-9-88
 Chk By: JRH Approved



PLAN SURVEYED BY DATE
 PLOTTED BY DATE
 CHECKED BY DATE
 IN CHARGE BY DATE

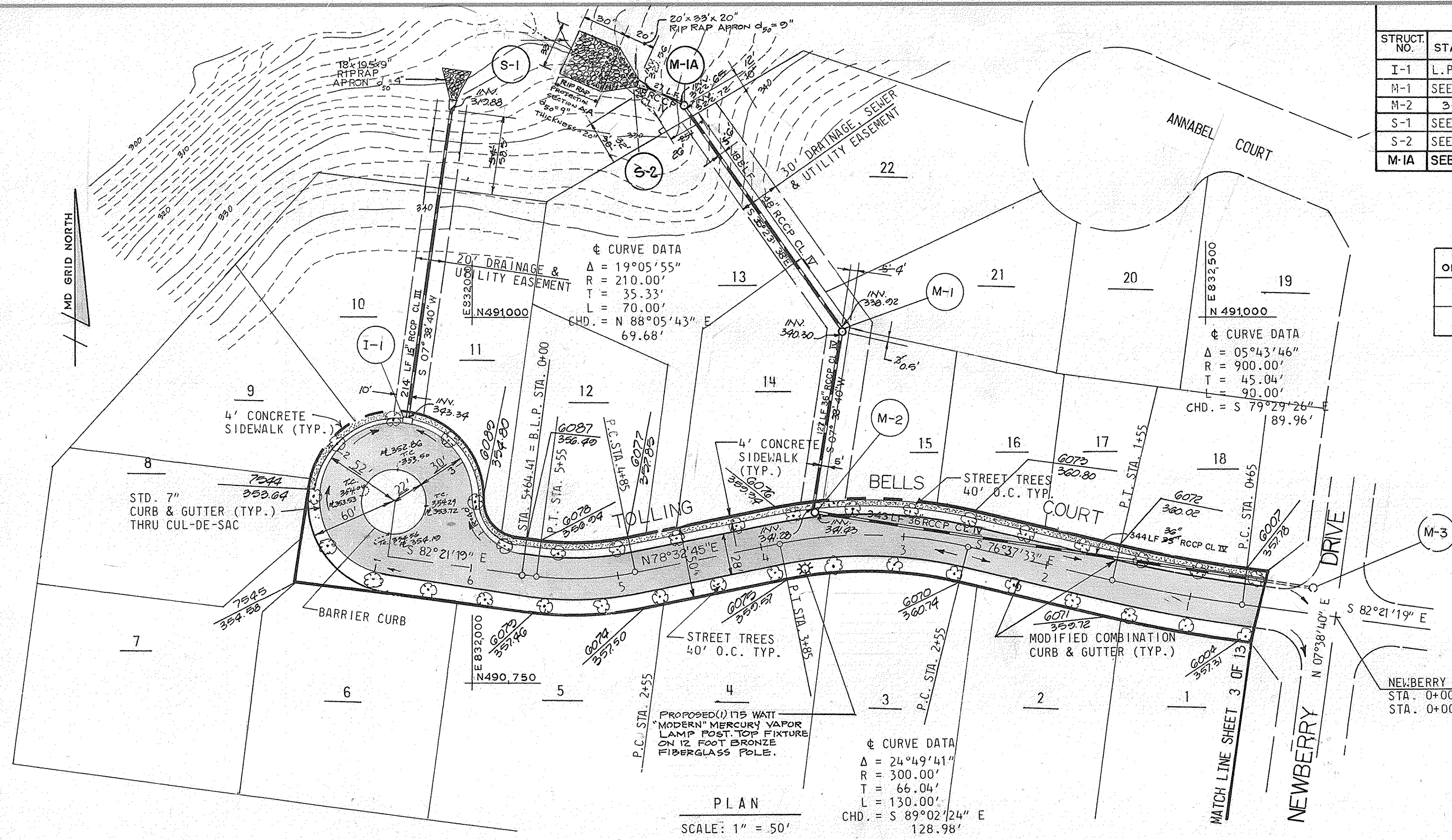
PROFILE SURVEYED BY DATE
 PLOTTED BY DATE
 CHECKED BY DATE
 IN CHARGE BY DATE

Drawing No. 3 OF 13

AS-BUILT F.88-199c

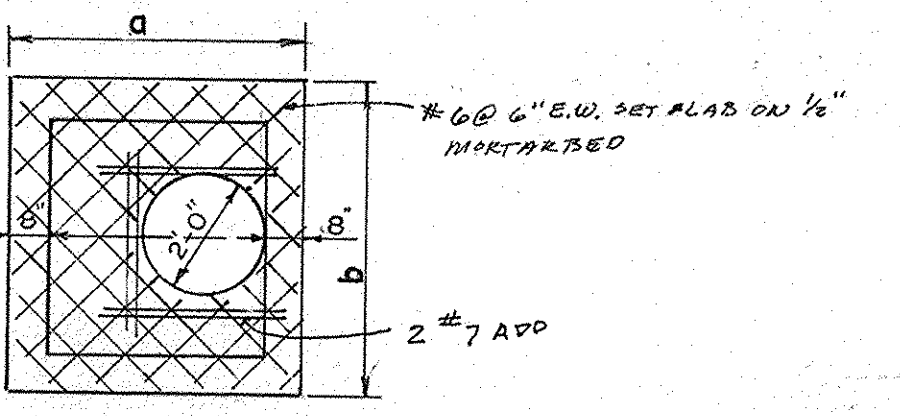
DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NO.	



STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
I-1	L.P. 2+60	-	STD. A-5	351.75-48	HOWARD CO. DETAIL SD-4.01
M-1	SEE PLAN	SEE PLAN	STD. MANHOLE	350.75/42	HOWARD CO. DETAIL G-5.13
M-2	3+50-68	6.5'-0" LT.	STD. MANHOLE	359.61-0	HOWARD CO. DETAIL G-5.13
S-1	SEE PLAN	SEE PLAN	STD. END SECTION	SEE PROFILE	HOWARD CO. DETAIL SD-5.51
S-2	SEE PLAN	SEE PLAN	STD. END SECTION	SEE PROFILE	HOWARD CO. DETAIL SD-5.51
M-1A	SEE PLAN	SEE PLAN	STD. MANHOLE	329.0-00	HOWARD CO. DETAIL G-5.13

NO. OF MH.	a	b	SLAB EL.	TOP EL.
A	5.4'	5.4'	339.0	346-88 338
B	4.5'	6.0'	342.0	346-87 342



MODIFIED BRICK MANHOLE WITH OFFSET
NOT TO SCALE

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief - Bureau of Engineering *7/1/88*
 Chief - Bureau of Highways *7/1/88*
 Chief - Land Development Division *6/27/88*
 APPROVED: OFFICE OF PLANNING AND ZONING

Chief of Community Planning and Land Development *7/2/88*
 11-17-88 1 CHANGE S-14 S-2 TO STD. END SECTION
 Date No Revision Description

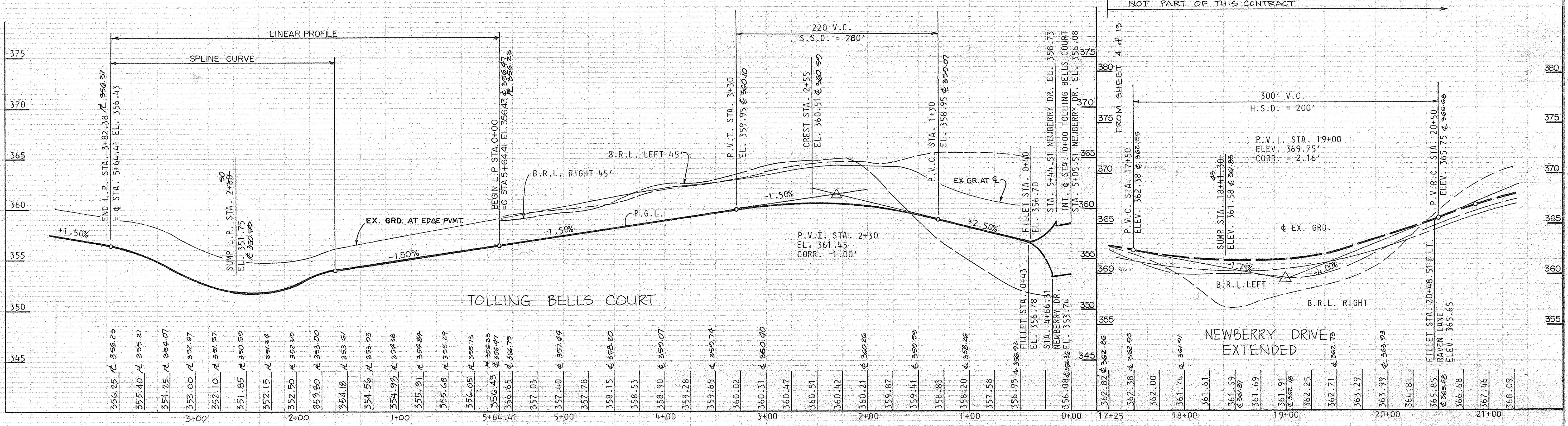
AS-BUILT
 DATE: JULY 1991
 NOTE: CUTSCHICK, LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY.
 THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

CENTURY ENGINEERING, INC.
 (301) 823-8070
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21284

AREA **VILLAGE OF HICKORY RIDGE**
 SECTION 6 AREA 1
 TAX MAP 41 PARCEL 45
 5th ELECTION DIST. OF HOWARD COUNTY, MD.

TITLE **PLAN AND PROFILE**
TOLLING BELLS COURT

Des By GBZ Scale AS SHOWN Proj No 87-7034
 Dwn By ETJ/JF Date 2-16-88
 Chk By JRH Approved



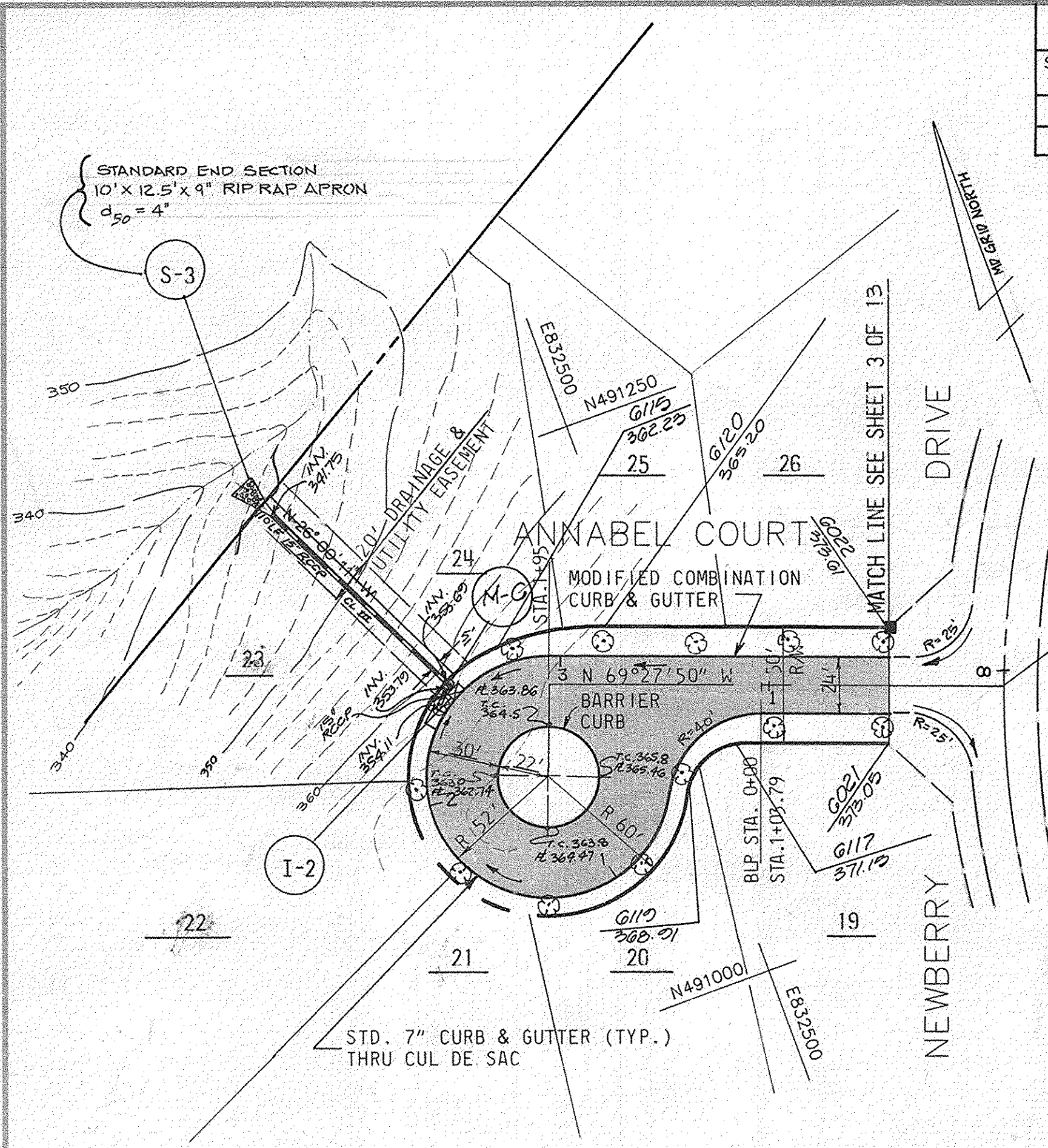
42

STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
I-2	LP STA. 2+52	-	A-5	361.00-10	HOWARD CO. DETAIL S.D.-4.01
S-3	LP STA. 2+52	SEE PLAN	STD. END SECTION	SEE PROFILE	HOWARD CO. DETAIL S.D.-5.51
M-C	2+54	6.2' FROM PC		361.10	

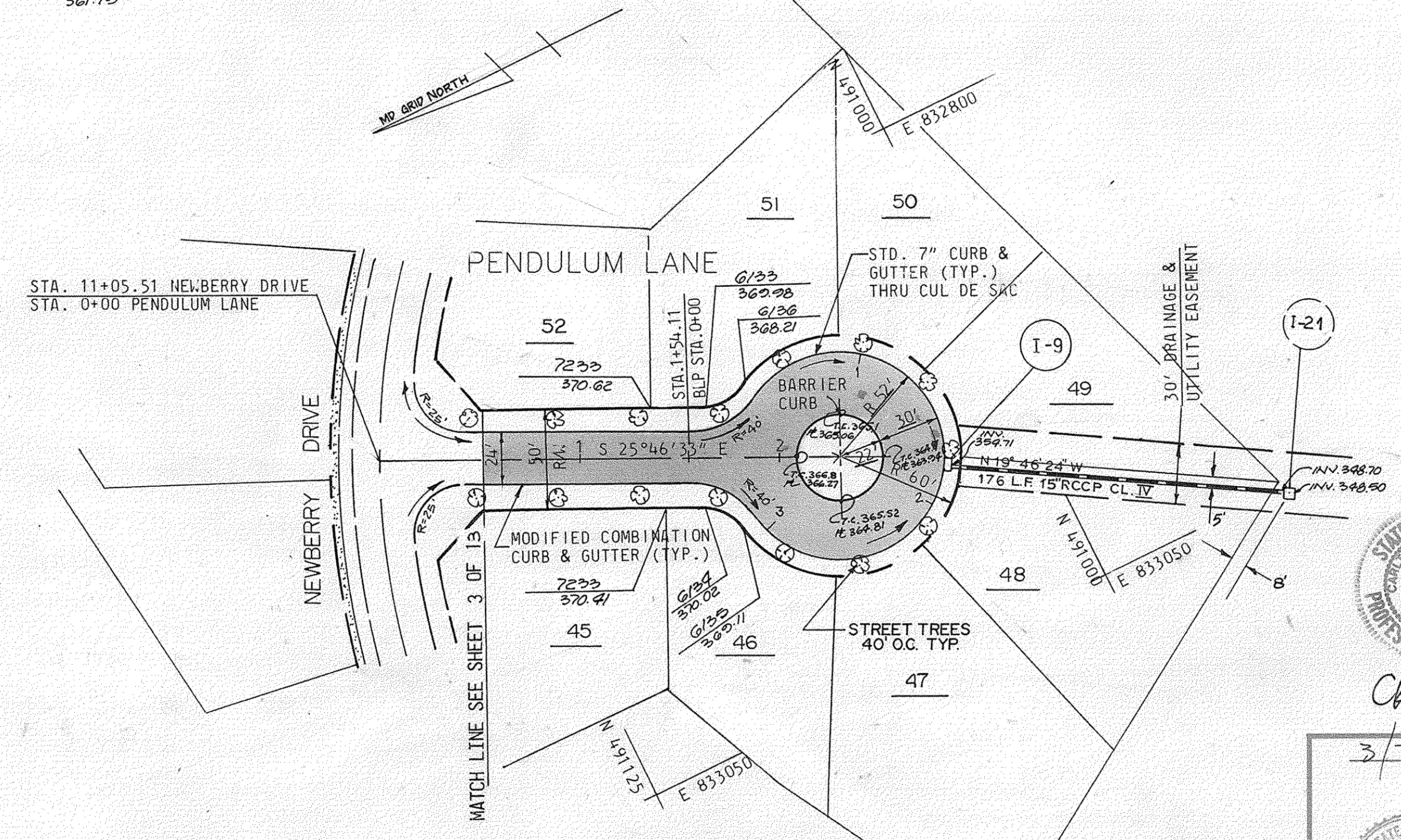
STRUCTURE SCHEDULE					
STRUCT. NO.	STATION	OFFSET	TYPE	TOP ELEV.	REMARKS
I-9	LP STA. 1+74	-	STD. A-5	362.15	HOWARD CO. DETAIL S.D.-4.01

DATE	BY	NO.

DATE	BY	NO.



PLAN
1" = 50'



PLAN
1" = 50'

APPROVED: DEPARTMENT OF PUBLIC WORKS
Elizabeth Williams 7/1/88
 CHIEF-BUREAU OF ENGINEERING
Granville W. Williams 7/1/88
 CHIEF-BUREAU OF HIGHWAYS
Paul J. Ryan 6/27/88
 CHIEF-LAND DEVELOPMENT DIVISION

APPROVED: OFFICE OF PLANNING AND ZONING
David S. ... 7/1/88
 CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

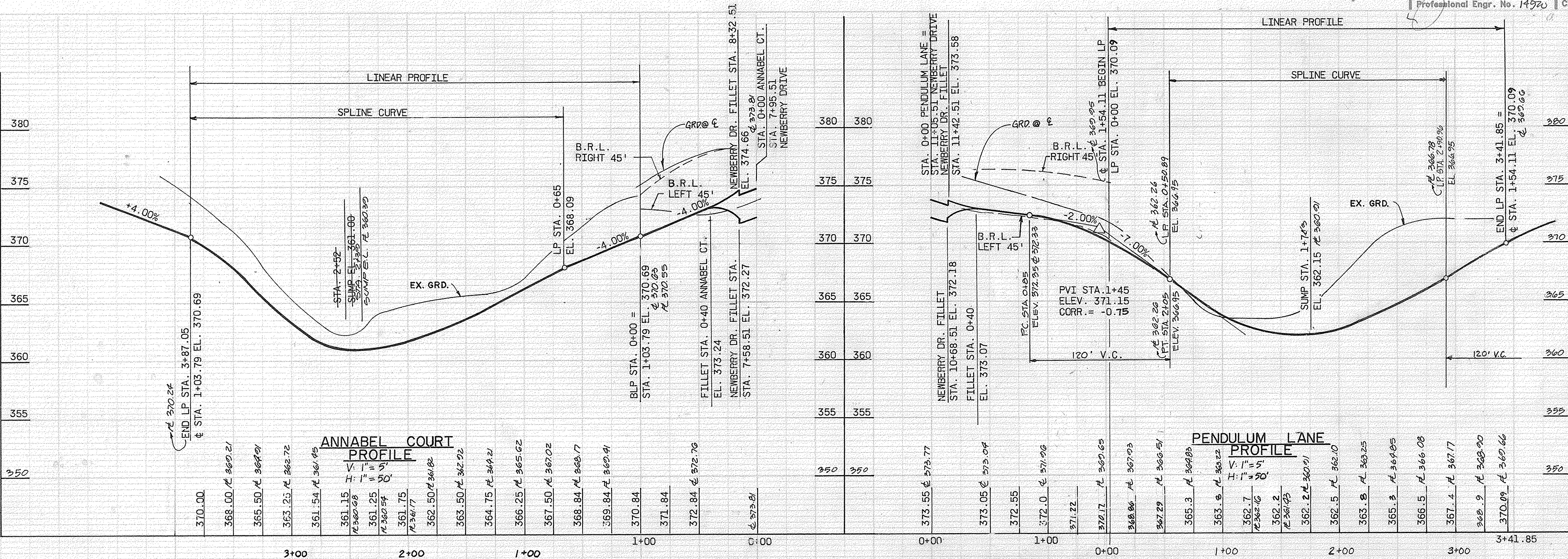
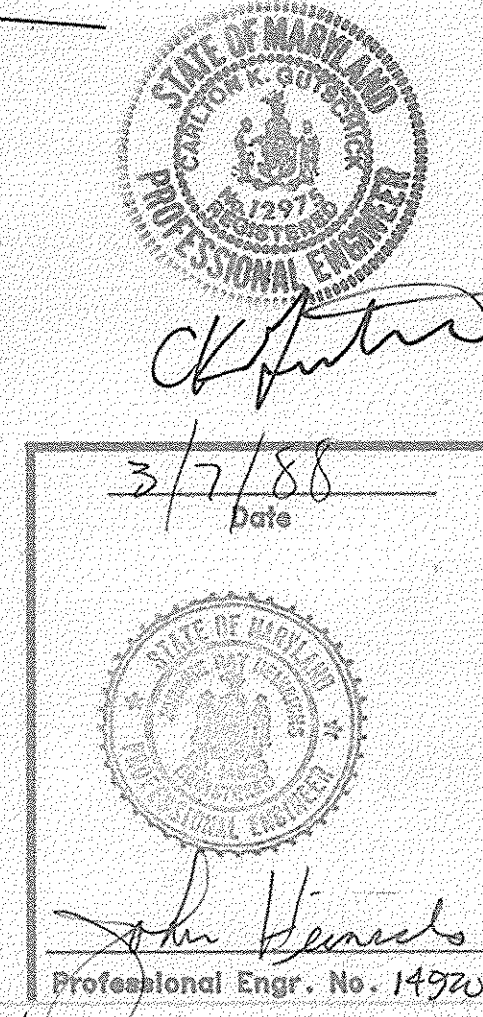
11-17-88
 Date No
 CHANGE S-3 TO STD. END SECTION
 Revision Description
AS-BUILT
 DATE: JULY 1991
 NOTE: GUTCHICK, LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY.

THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

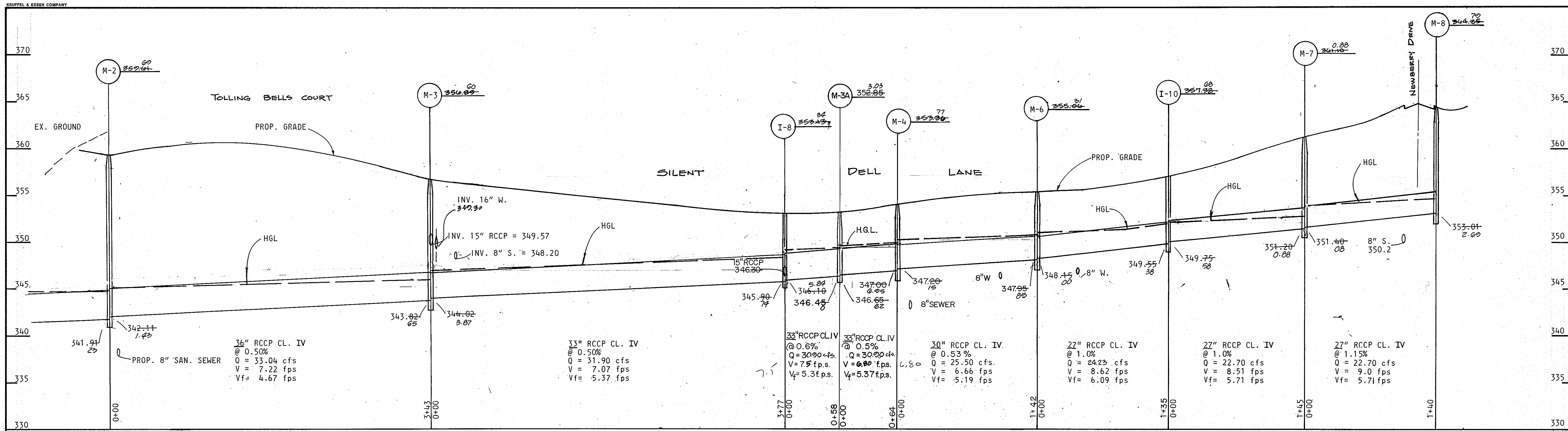
CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 TOWSON, MARYLAND 21284

AREA: VILLAGE OF HICKORY RIDGE
 SECTION 6 AREA 1
 TAX MAP 41 PARCEL 45
 5th ELECTION DIST. OF HOWARD COUNTY, MD
 TITLE: PLAN AND PROFILES
 ANNABEL COURT
 PENDULUM LANE

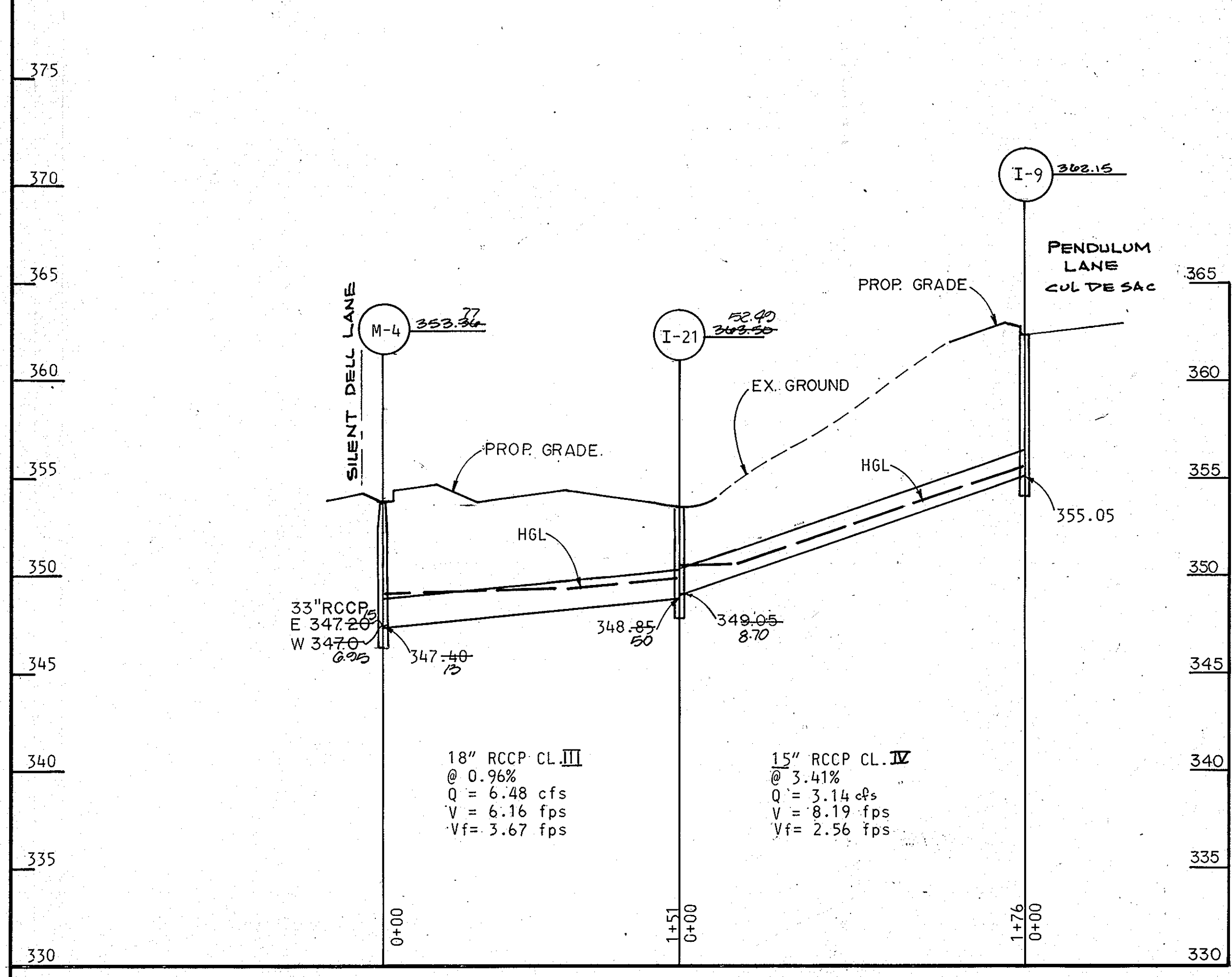
Des By GBZ Scale AS SHOWN Proj No 87-7034
 Dwn By JP/ETJ Date 2-16-88
 Chk By JRH Approved



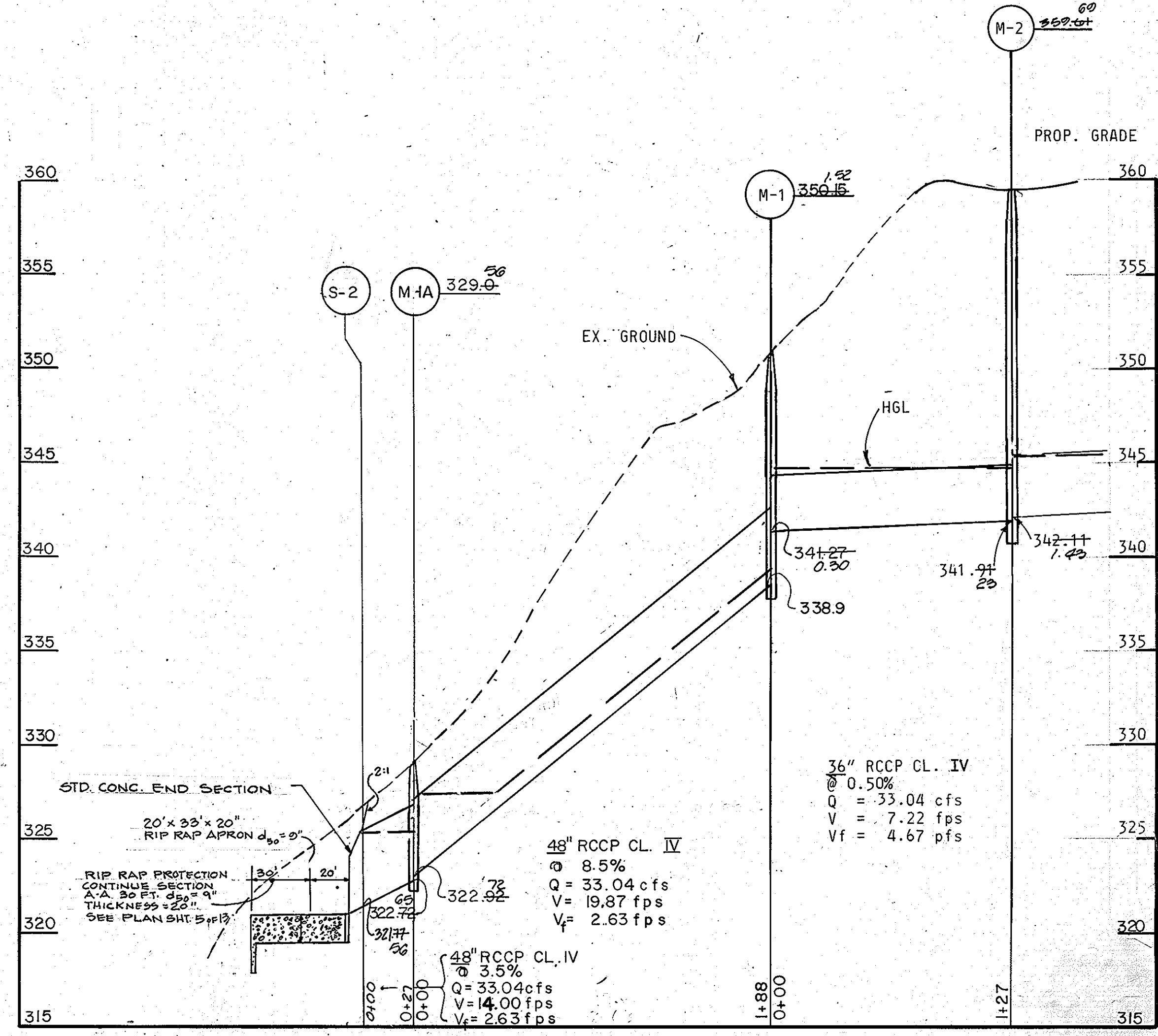
42



SILENT DELL LANE - PROFILE
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'



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



TOLLING BELLS COURT
 PROFILE
 SCALE: HOR. 1" = 50'
 VER. 1" = 5'



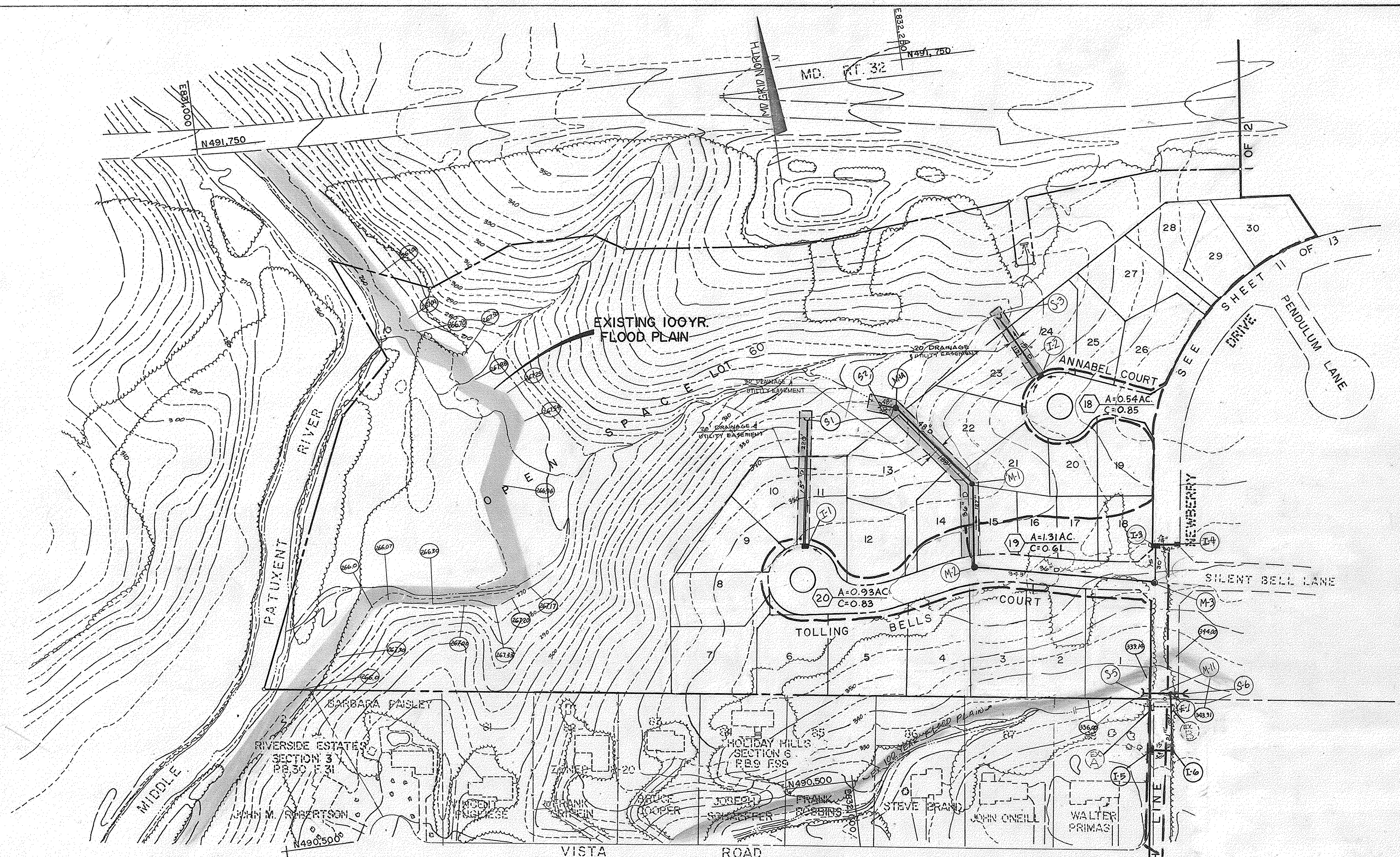
3/7/88
 Date
 Professional Engr. No. 14920

APPROVED: DEPARTMENT OF PUBLIC WORKS	
<i>Garrett Anderson</i> CHIEF - BUREAU OF ENGINEERING	7/1/88 DATE
<i>Francis W. Wilkins</i> CHIEF - BUREAU OF HIGHWAYS	7/1/88 DATE
<i>Paul J. ...</i> CHIEF - LAND DEVELOPMENT DIVISION	6/27/88 DATE
APPROVED: OFFICE OF PLANNING AND ZONING	
<i>Janice S. ...</i> CHIEF - DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT	7/1/88 DATE
11-17-88	1 CHANGE S-2 TO STD. CONC. END SECTION
Date	No Revision Description
AS-BUILT	
DATE: JULY 1991 NOTE: GUTCHICK LITTLE & WEBER IS RESPONSIBLE FOR AS-BUILT INFORMATION ONLY.	
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044	
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS • PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204	
AREA	VILLAGE OF HICKORY RIDGE SECTION 6 AREA 1 TAX MAP 41 PARCEL 45 5th ELECTION DIST OF HOWARD COUNTY, MD.
TITLE	STORM DRAIN PROFILES
Des By	Scale As Shown
Drn By	Date Feb. 1988
Proj No	87-7034
Chk By	Approved
	Drawing No. 7 OF 13

42

AS-BUILT

F-28-199c



42

APPROVED: DEPARTMENT OF PUBLIC WORKS

Elizabeth Anderson-Cole 7/1/88
 CHIEF-BUREAU OF ENGINEERING acting DATE

Braville W. Wedmond 7/1/88
 CHIEF-BUREAU OF HIGHWAYS DATE

Paul J. Johnson 6/27/88
 CHIEF-LAND DEVELOPMENT DIVISION DATE

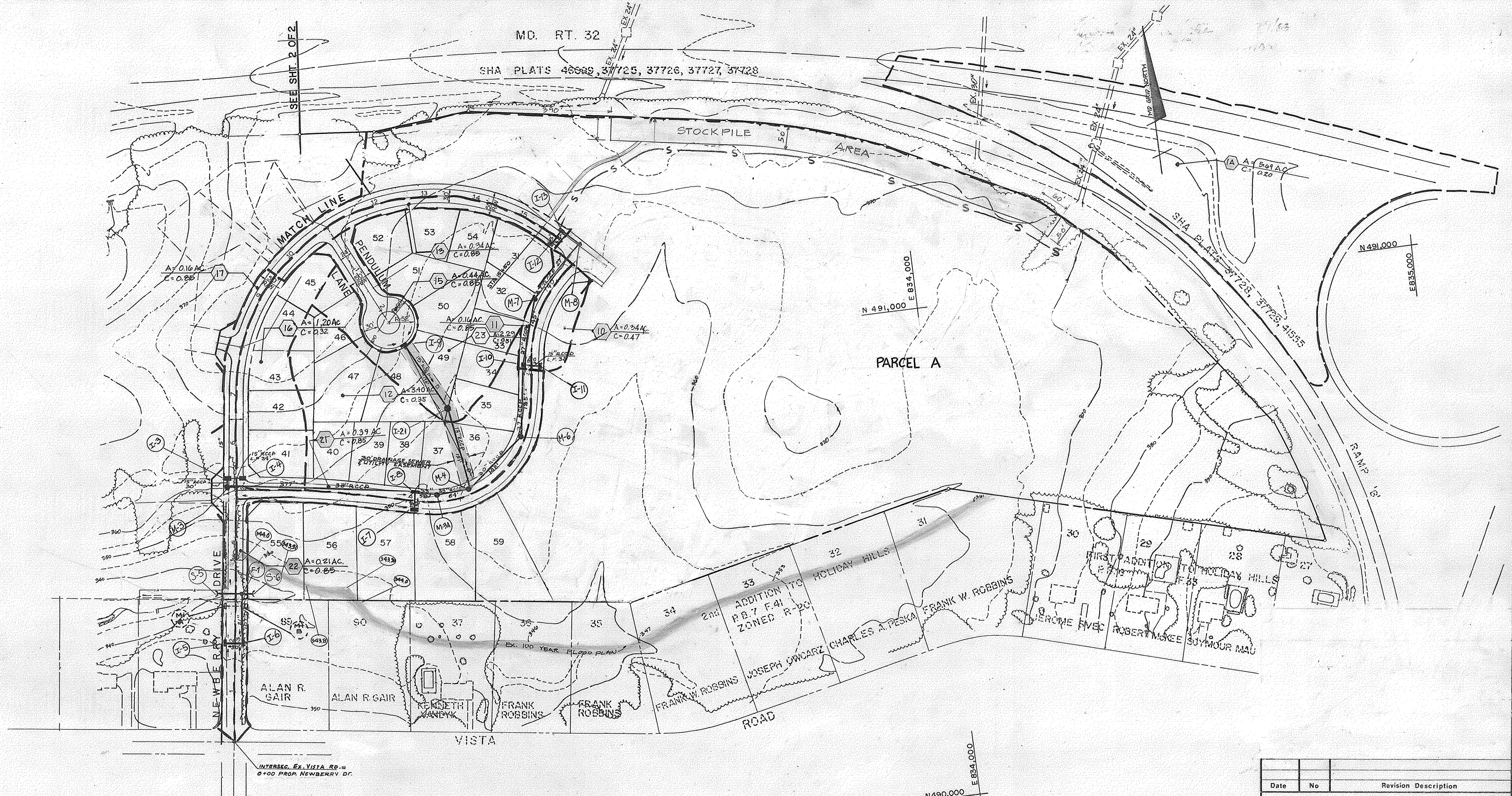
APPROVED: OFFICE OF PLANNING AND ZONING

Dorothy S. DeAngelis 7/1/88
 CHIEF-DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

10-12-87
 Date

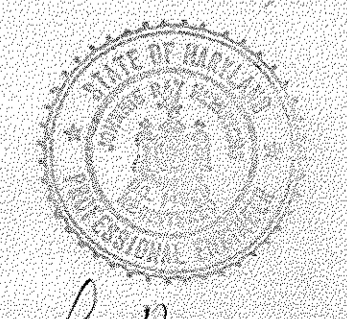
Professional Engr. No. 14920

Date	No	Revision Description
		AS-BUILT
		DATE: JULY 1991
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY		
THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044		
CENTURY ENGINEERING, INC.		
CONSULTING ENGINEERS • PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204		
AREA	VILLAGE OF HICKORY RIDGE SECTION 6 TAX MAP 41 5th ELECTION DISTRICT OF HO. CO., MD.	AREA 1 PARCEL 45
TITLE	DRAINAGE AREA MAP VILLAGE OF HICKORY RIDGE	
Des By H. S.	Scale 1" = 100'	Proj No 87-7034
Drn By ETJ	Date 3-9-88	Drawing No.
Chk By	Approved	2 OF 13



42

APPROVED: DEPARTMENT OF PUBLIC WORKS
Robert Anderson-Cole 7/1/88
 CHIEF BUREAU OF ENGINEERING acting DATE
Drumville W. Wheeler 7/1/88
 CHIEF BUREAU OF HIGHWAYS DATE
Donald J. Esser 6/27/88
 CHIEF LAND DEVELOPMENT DIVISION DATE
 APPROVED: OFFICE OF PLANNING AND ZONING
Frank S. DeLanghe 7/30/88
 CHIEF DIVISION OF COMMUNITY PLANNING AND DATE

10-19-87
 Date

 Professional Engr. No. 14920

Date	No.	Revision Description
		AS-BUILT
DATE: JULY 1981		
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY THE ROUSE BUILDING 10275 LITTLE PATUXENT PARKWAY COLUMBIA, MARYLAND 21044		
CENTURY ENGINEERING, INC. CONSULTING ENGINEERS • PLANNERS 22 WEST ROAD TOWSON, MARYLAND 21204		
AREA	VILLAGE OF HICKORY RIDGE SECTION 6 AREA 1 TAX MAP 41 PARCEL 45 5th ELECTION DISTRICT OF HO. CO., MD	
TITLE	DRAINAGE AREA MAP VILLAGE OF HICKORY RIDGE	
Des By H. S.	Scale 1" = 100'	Proj No 87-7034
Drn By ETJ	Date 3-9-88	Drawing No.
Chk By	Approved	10 OF 13

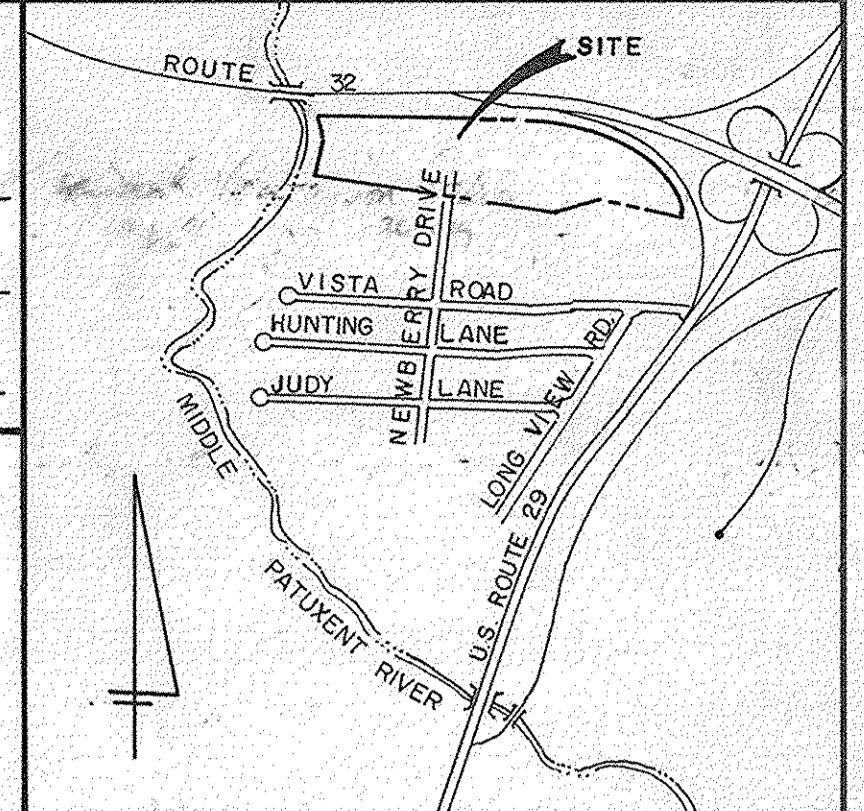
TRAP NO.	OUTLET LENGTH	TRAP DEPTH	FLOW DEPTH	WEIR ELEV.	DRAINAGE AREA	DISTURBED AREA	BOTTOM DIMENSION	VOLUME REQ'D	BOTTOM ELEVATION	CLEANOUT ELEVATION	EMBANKMENT ELEVATION
2	14.0'	5.0'	N/A	347.0	10.26 AC	3.95 AC	150'x33.5'	18468	341.0	343.5	351.0
	12.0'	3.2	N/A	363.0	2.84 AC	0.62	20x75	5112	352.2	360.4	364.5

APPROVED: DEPARTMENT OF PUBLIC WORKS

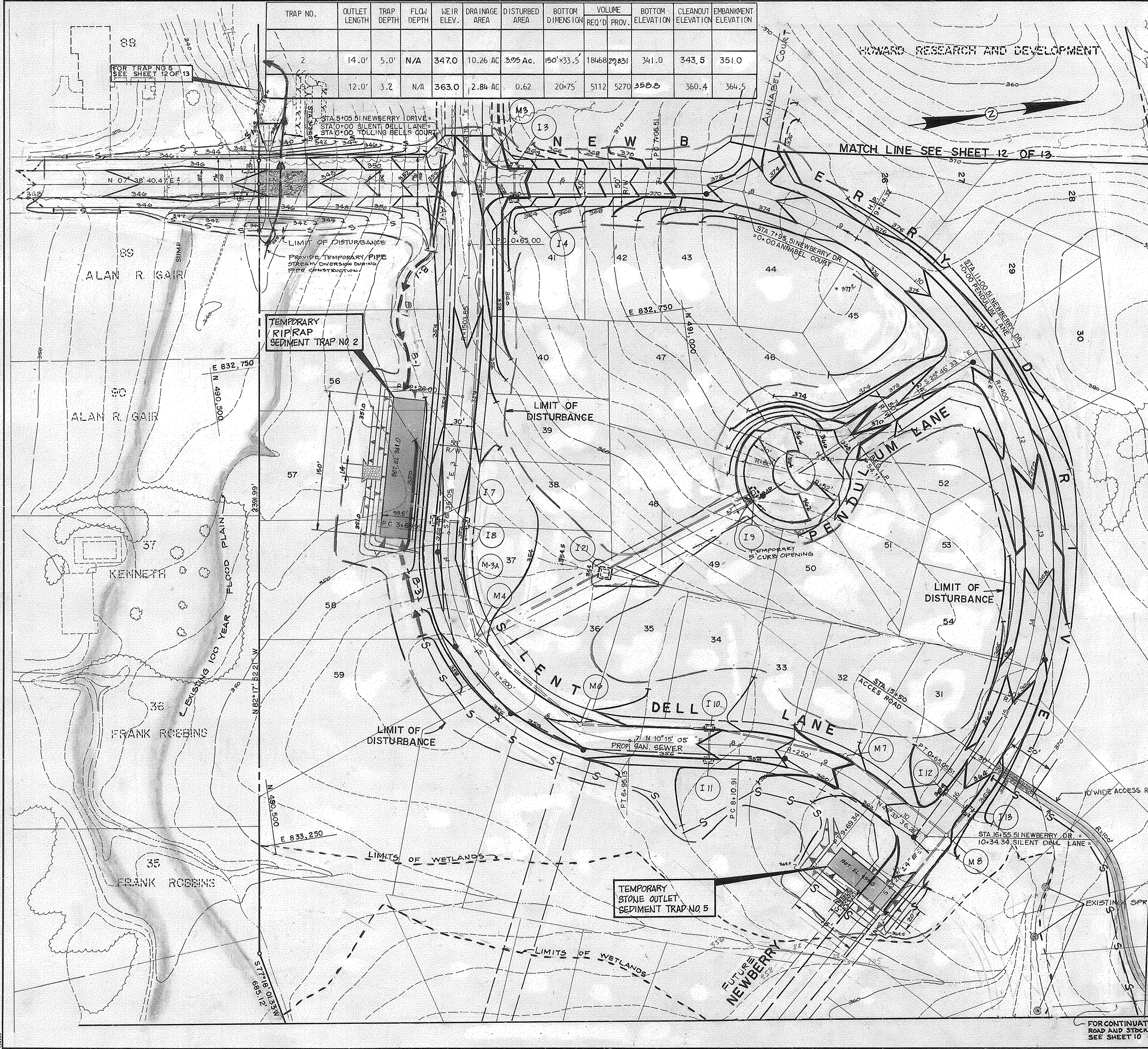
Elizabeth Oudman Cole 7/1/88
 CHIEF - BUREAU OF ENGINEERING DATE

Demetrius W. Williams 7/1/88
 CHIEF - BUREAU OF HIGHWAYS DATE

Paul D. Seaman 6/27/88
 CHIEF - LAND DEVELOPMENT DIVISION DATE



VICINITY MAP
 SCALE: 1"=2,000'



APPROVED: OFFICE OF PLANNING AND ZONING

Frank S. DeYoung 7/13/88
 CHIEF - DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

BY THE DEVELOPER:

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

James R. Hall 3-3-88
 SIGNATURE OF DEVELOPER DATE

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."

John H. Smith 3/7/88
 SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD S.C.D. NAME: _____

AND MEETS TECHNICAL REQUIREMENTS.

James Williams 6/1/88
 U.S. SOIL CONSERVATION SERVICE DATE

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

Stephen F. Anderson 6/1/88
 HOWARD S.C.D. DATE

9-16-85	1	338' CONTOUR @ 60.00' DRAIN CULVERT
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AS-BUILT
 DATE: JULY 1991

THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

CENTURY ENGINEERING, INC.
 (301) 823-8070
 CONSULTING ENGINEERS • PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

AREA VILLAGE OF HICKORY RIDGE
 SECTION 6 AREA 1
 TAX MAP 41 PARCEL 45
 5th ELECTION DIST OF HOWARD COUNTY, MD.

TITLE GRADING AND SEDIMENT CONTROL PLAN
 VILLAGE OF HICKORY RIDGE

Des By G.Z. Scale 1"=50' Proj No 87-7034
 Drn By R.F. Date 3-9-88 Drawing No. 11 OF 13
 Chk By J.H. Approved

3/7/88
 Date

Professional Engr. No. 14720

FOR CONTINUATION OF ACCESS ROAD AND STOCKPILE LOCATION SEE SHEET 10 OF 13

42

APPROVED: DEPARTMENT OF PUBLIC WORKS
Michael Robinson 7/1/88
 CHIEF - BUREAU OF ENGINEERING DATE
Bruce W. Woodard 7/1/88
 CHIEF - BUREAU OF HIGHWAYS DATE
Paul B. Soper 6/27/88
 CHIEF - LAND DEVELOPMENT DIVISION DATE

TRAP NO.	OUTLET LENGTH	TRAP DEPTH	FLOW DEPTH	WEIR ELEV.	DRAINAGE AREA	DISTURBED AREA	BOTTOM DIMENSION	VOLUME REQ'D	VOLUME PROV.	BOTTOM ELEVATION	CLEANOUT ELEVATION	EMBANKMENT ELEVATION
3	5'	3.0'	-	353.0	1.08 AC	1.08 AC	100x5	1944	1986	349.0	350.5	354.5
4	5'	3.0'	-	359.0	0.78 AC	0.78 AC	80x4.5	1404	1474	355.0	356.5	360.5
6	5'	3.0'	-	339.0	0.64 AC	0.80 AC	35'x10'	1440	1509	335.0	336.5	339.5

APPROVED: OFFICE OF PLANNING AND ZONING
Frank J. DeAngelis 7/1/88
 CHIEF - DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

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.
George R. Kline 3-3-88
 SIGNATURE OF DEVELOPER DATE

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.
John H. ... 3/2/88
 SIGNATURE OF ENGINEER DATE

REVIEWED FOR HOWARD AND MEETS TECHNICAL REQUIREMENTS.
John H. ... 6/17/88
 U.S. SOIL CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Stephen P. ... 4/1/88
 HOWARD S.C.D. DATE

Date	No	Revision Description
		AS-BUILT
		DATE: JULY 1991

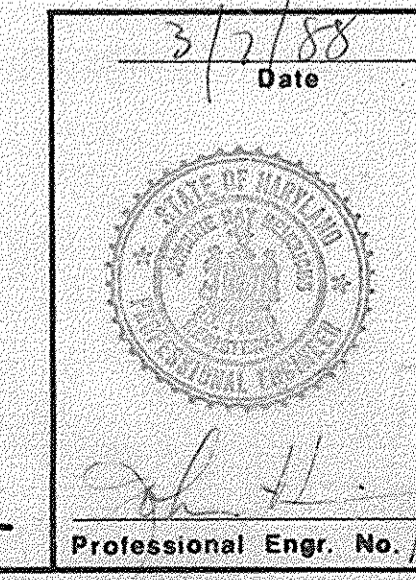
THE HOWARD RESEARCH AND DEVELOPMENT LAND COMPANY
 THE ROUSE BUILDING
 10275 LITTLE PATUXENT PARKWAY
 COLUMBIA, MARYLAND 21044

CENTURY ENGINEERING, INC.
 (301) 825-8070
 CONSULTING ENGINEERS • PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21204

AREA VILLAGE OF HICKORY RIDGE
 SECTION 6 AREA 1
 TAX MAP 41 PARCEL 45
 5th ELECTION DIST. OF HOWARD COUNTY, MD.

TITLE GRADING AND SEDIMENT CONTROL PLAN
 VILLAGE OF HICKORY RIDGE

Des By G.E.Z. Scale 1"=50' Proj No
 Drn By E.T.J. Date 2-16-88 Drawing No.
 Chk By J.R.H. Approved 12 OF 13



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