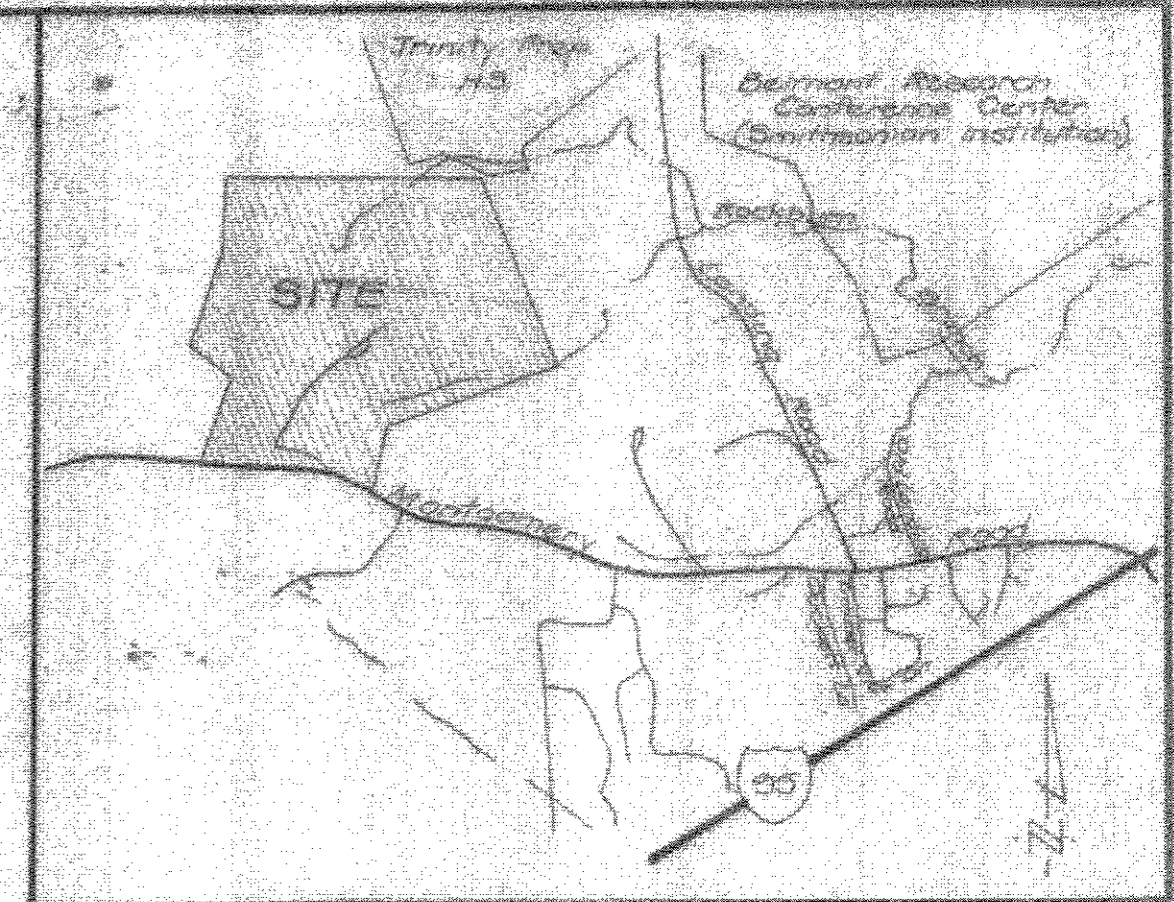


Benchmark  
Concrete Monument  
N 502.915 28  
E 204.263 17  
Elev. 371.57

NASSER REZAI ET UX  
W.P.S. 1001 / 2005  
(R-20)

Benchmark  
Concrete Monument  
N 303.281 99  
E 206.242 41  
Elev. 340.58

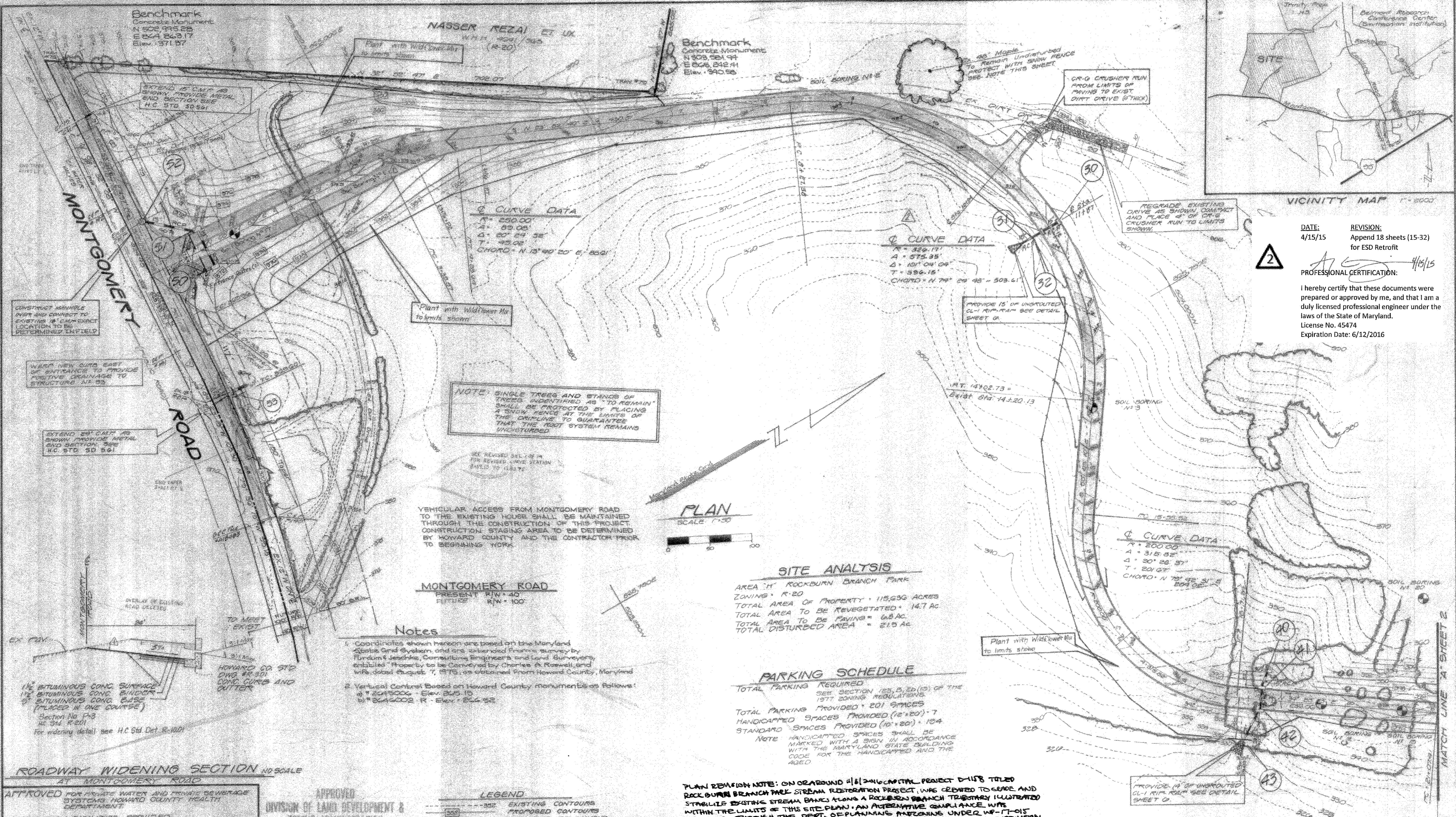


DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit



PROFESSIONAL CERTIFICATION: 4/15/15

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 45474 Expiration Date: 6/12/2016



**SITE ANALYSIS**  
AREA: 11 ROCKBURN BRANCH PARK  
ZONING: R-20  
TOTAL AREA OF PROPERTY: 115,636 ACRES  
TOTAL AREA TO BE REVEGETATED: 14.7 AC  
TOTAL AREA TO BE PAVING: 68.8 AC  
TOTAL DISTURBED AREA: 215 AC

**PARKING SCHEDULE**  
TOTAL PARKING REQUIRED: SEE SECTION 125.8, 125.10 OF THE 1977 ZONING REGULATIONS  
TOTAL PARKING PROVIDED: 201 SPACES  
HANDICAPPED SPACES PROVIDED (12'x20'): 7  
STANDARD SPACES PROVIDED (10'x20'): 194  
NOTE: HANDICAPPED SPACES SHALL BE MARKED WITH A SIGN IN ACCORDANCE WITH THE MARYLAND STATE BUILDING CODE FOR THE HANDICAPPED AND THE AGED

**PLAN REVISION NOTE:** ON OR AROUND 4/8/2016 CAPITAL PROJECT D-118 TITLED ROCKBURN BRANCH PARK STREAM RESTORATION PROJECT, WAS CREATED TO GRADE AND STABILIZE EXISTING STREAM BANKS ALONG A ROCKBURN BRANCH TRIBUTARY ILLUSTRATED WITHIN THE LIMITS OF THIS SITE PLAN. AN ALTERNATIVE COMPLIANCE WITHIN THE LIMITS OF THIS SITE PLAN, OF PLANNING AND ZONING UNDER WP-17-015 APPROVED ON 4/14/16 TO WAIVER SUBSECTION 16.155(A)(1) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS SUBJECT TO SIX APPROVAL CONDITIONS. FOR DETAILED APPROVAL CONDITIONS AND CURRENT SITE CONDITIONS WITHIN THE DISTURBED AREA, SEE THE CAPITAL PROJECT PLANS.

ADDRESS CHART

NUMBER	STREET ADDRESS
Parcel 235	6145 Montgomery Road

**OWNER/DEVELOPER**  
HOWARD COUNTY DEPARTMENT OF RECREATION & PARKS  
3930 COURT HOUSE DRIVE  
FILLIOTT CITY, MARYLAND  
301-938-2980

SUBDIVISION NAME		SECT./AREA	PARCEL #
Rockburn Branch Park			235
LIBER/FOLIO	BLOCK#	ZONE	TAX/ZONE MAP/ELEC. DIST./CENSUS TR.
785/505	4	R-20	37 1 6011
WATER CODE		SEWER CODE	

**ROADWAY WIDENING SECTION** NO SCALE  
AT MONTGOMERY ROAD

**APPROVED** FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

**NO SANITARY FACILITIES PROVIDED** COUNTY HEALTH OFFICER DATE

**APPROVED** HOWARD COUNTY OFFICE OF PLANNING AND ZONING DATE: 7-25-85  
PLANNING DIRECTOR: [Signature] DATE: 7-23-15  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

**APPROVED** FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS DATE

**APPROVED** DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE: 7-3-85  
[Signature]

**DEPARTMENT OF RECREATION & PARKS**  
HOWARD COUNTY, MARYLAND  
DATE: [ ] DIRECTOR: [ ]

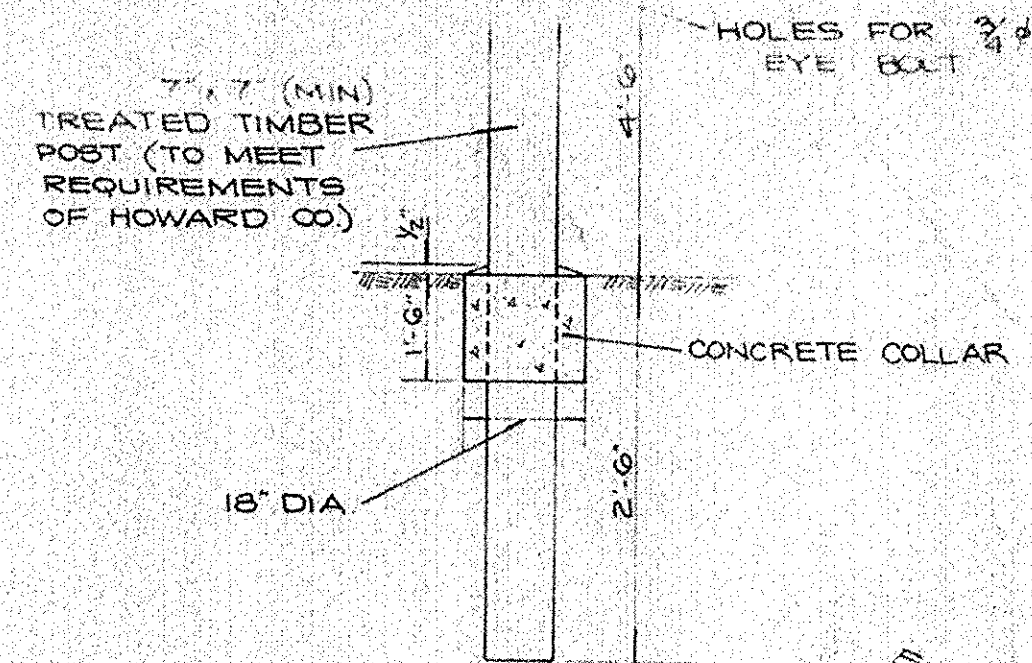
**LEGEND**

[Symbol]	EXISTING CONTOURS
[Symbol]	PROPOSED CONTOURS
[Symbol]	PROPOSED BITUMINOUS PAVING
[Symbol]	PROPOSED CONCRETE CURB AND GUTTER HOWARD CO. STD. R-301
[Symbol]	EXISTING WOODS LINE

**SITE DEVELOPMENT PLAN**  
**ROCKBURN BRANCH PARK**  
TAX MAP - 31 LIBER 785 FOLIO 505 PARCEL - 235  
CAPITAL PROJECT - N° - N-3049 AA  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**Macris, Hendricks and Witmer P.A.**  
Engineers-Surveyors  
Suite 208  
15209 Frederick Road  
Rockville, MD 20850  
(301) 343-8705

Designed: J.C.G. Drawn: Betty  
Date: April 15, 2015 Scale: 1" = 50'  
Job No: 2015-005 Sheet: 32



POST DETAIL  
NO SCALE

Note: Remove existing fences without disturbing existing vegetation

TYPICAL ROADWAY SECTION  
NO SCALE

FOR STA 8+16.29 TO STA 10+89.10  
SPUR ROAD

1" BITUMINOUS SURFACE COURSE  
1" BITUMINOUS BASE COURSE  
COMPACTED SUB GRADE

H.C. STD 7" COMB CURB AND GUTTER  
SEE DET. E-3.01 OF H.C. STD SPECIFICATIONS

CURVE DATA  
R = 120.00  
A = 121.33  
Δ = 35° 41' 37"  
T = 68.85  
CHORD = N 63° 35' 00" W  
116.80

CURVE DATA  
R = 650.00  
A = 202.20  
Δ = 17° 45' 24"  
T = 101.92  
CHORD = N 30° 32' 20" W  
201.89

CURVE DATA  
R = 205.00  
A = 137.71  
Δ = 39° 49' 50"  
T = 103.02  
CHORD = N 41° 30' 42" W  
193.77

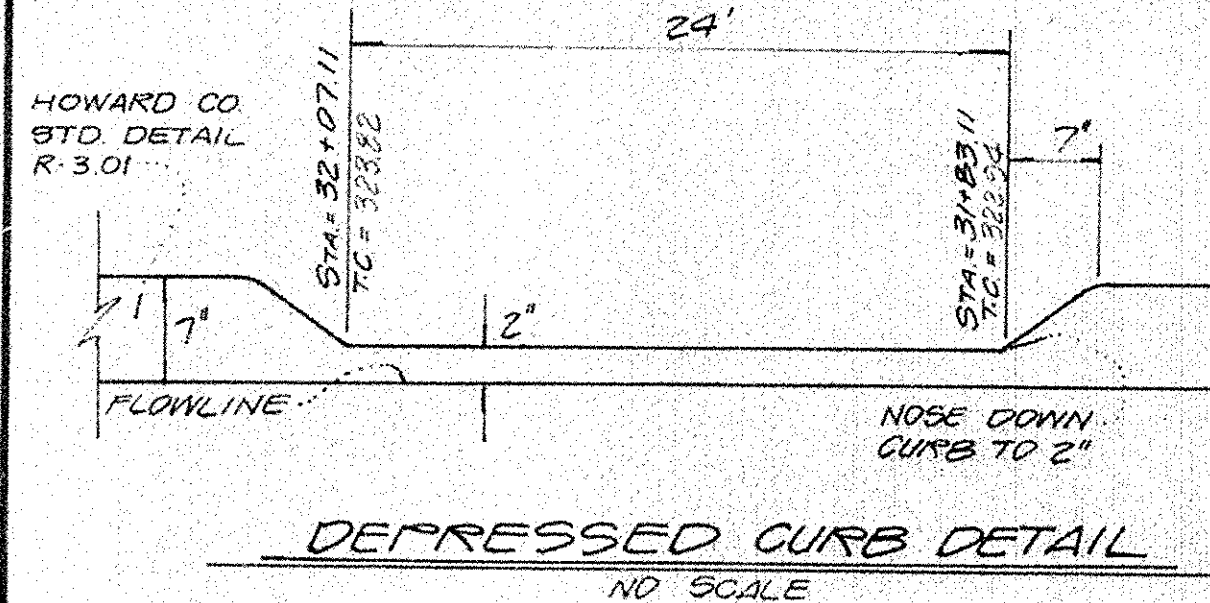
HOWARD COUNTY  
C.M.P. 0709/646  
R-20

NOTE: SINGLE TREES AND STANDS OF TREES IDENTIFIED AS "TO REMAIN" SHALL BE PROTECTED BY PLACING A SNOW FENCE AT THE LIMITS OF DRIFLINE TO GUARANTEE THAT THE ROOT SYSTEM REMAINS UNDISTURBED.

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit

PROFESSIONAL CERTIFICATION: [Signature] 4/15/15

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 45474  
Expiration Date: 6/12/2016



DEPRESSED CURB DETAIL  
NO SCALE

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
NO SANITARY FACILITIES PROVIDED  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
PLANNING DIRECTOR [Signature] DATE 7-23-85  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION [Signature] DATE 7-23-85

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND  
DATE 7-23-85  
DIRECTOR [Signature]

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 7-3-85  
[Signature]



PLAN  
SCALE 1"=50'

BENCHES SHOWN AT TENNIS AND BASKETBALL COURTS TO BE VICTOR STANLEY MODEL UB 816 OR AN APPROVED EQUAL.

PROVIDE 10' OF UNGRADED CL-1 RIP-RAP SEE DET. SHT. 0

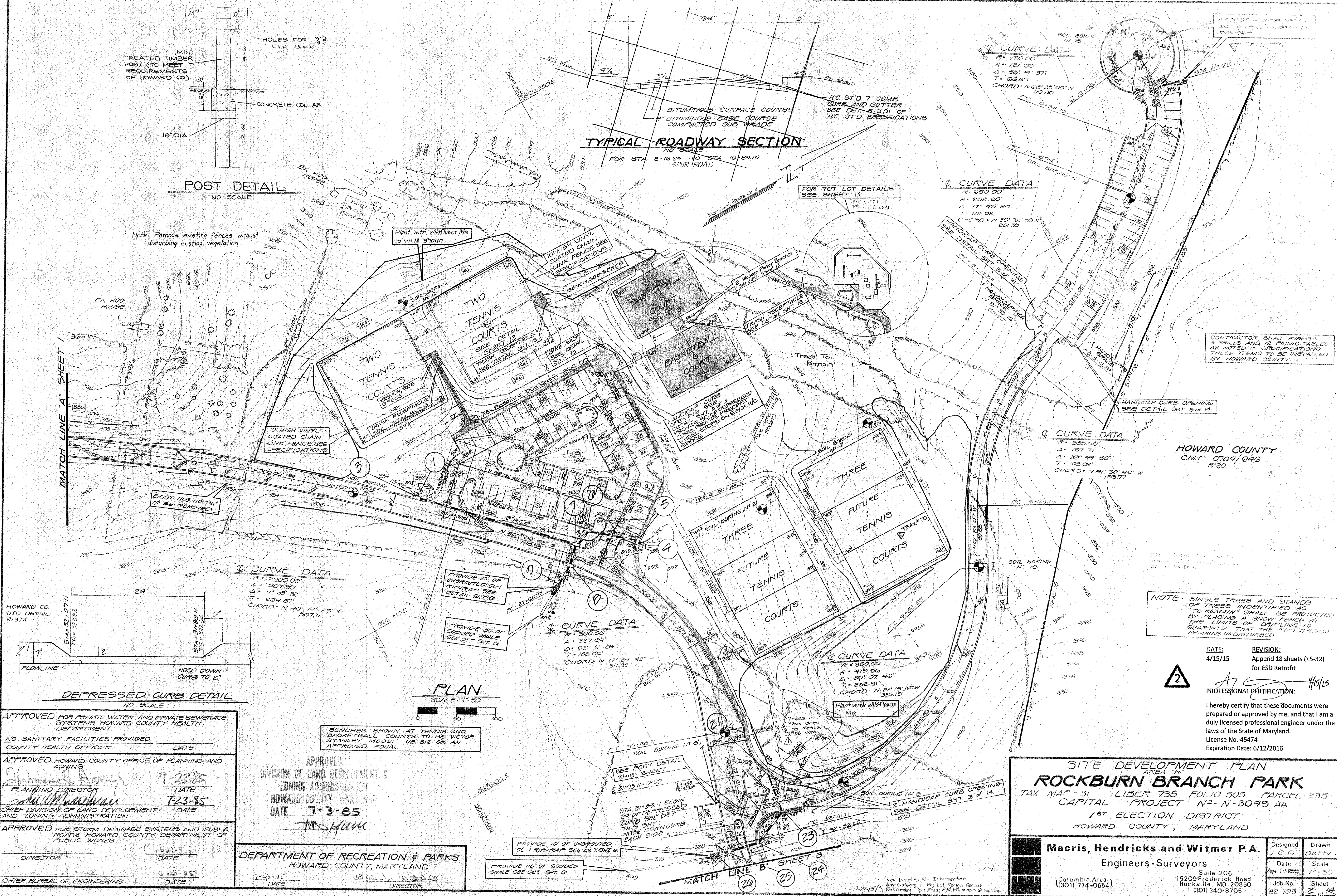
PROVIDE 10' OF SODDED SHALE SEE DET. SHT. 0

SITE DEVELOPMENT PLAN  
AREA "H"  
**ROCKBURN BRANCH PARK**  
TAX MAP - 31 LIBER 735 FOLIO 505 PARCEL 235  
CAPITAL PROJECT N- N-3099, AA  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

Macris, Hendricks and Witmer P.A.  
Engineers-Surveyors  
Suite 206  
15209 Frederick Road  
Rockville, MD 20850  
(301) 774-0664

Designed JCG	Drawn Betty
Date April 1985	Scale 1"=50'
Job No. 62-103	Sheet 2 of 32

Key: Benches, etc. Intersections  
Add Stations in Fly Lot Remove Fences  
Rip Grading Spur Road, Add Dimensions & Benches

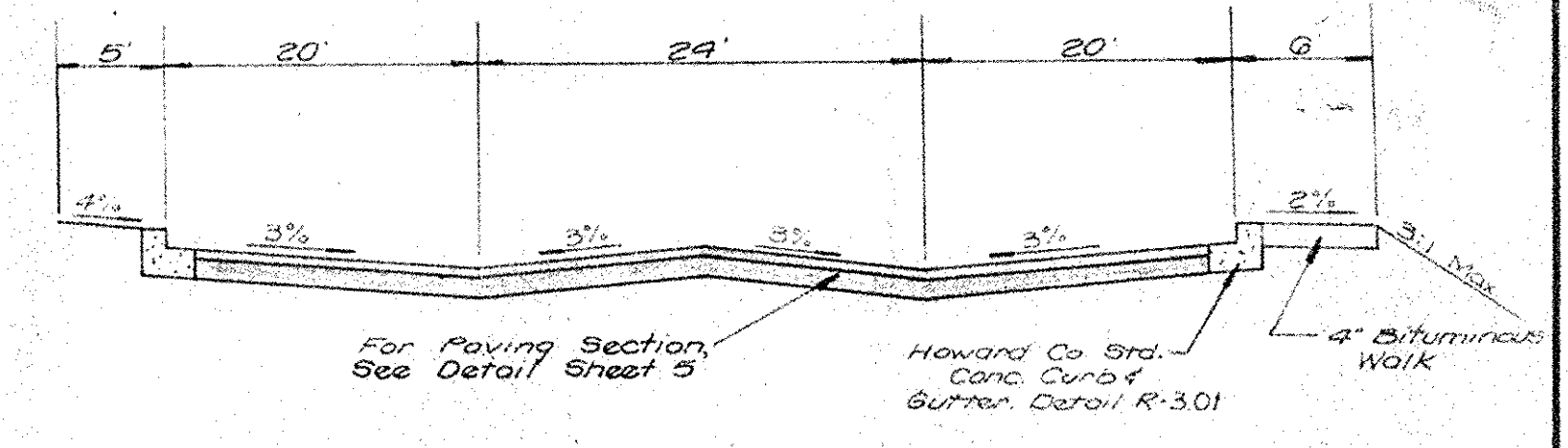


STRUCTURE SCHEDULE

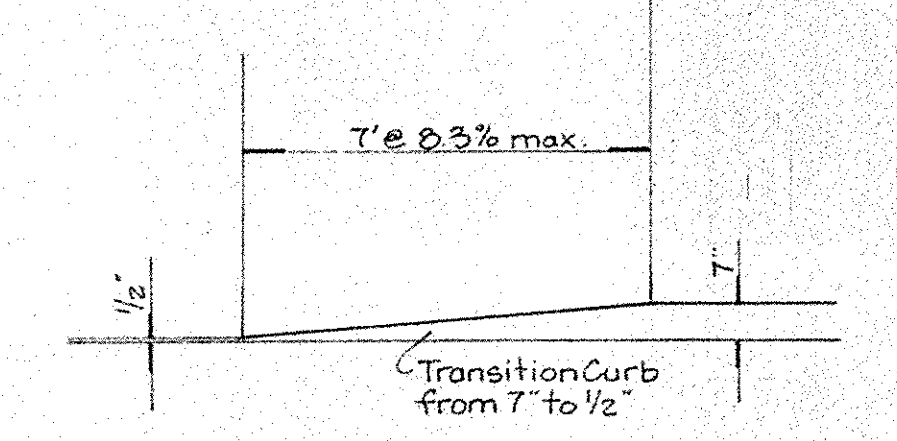
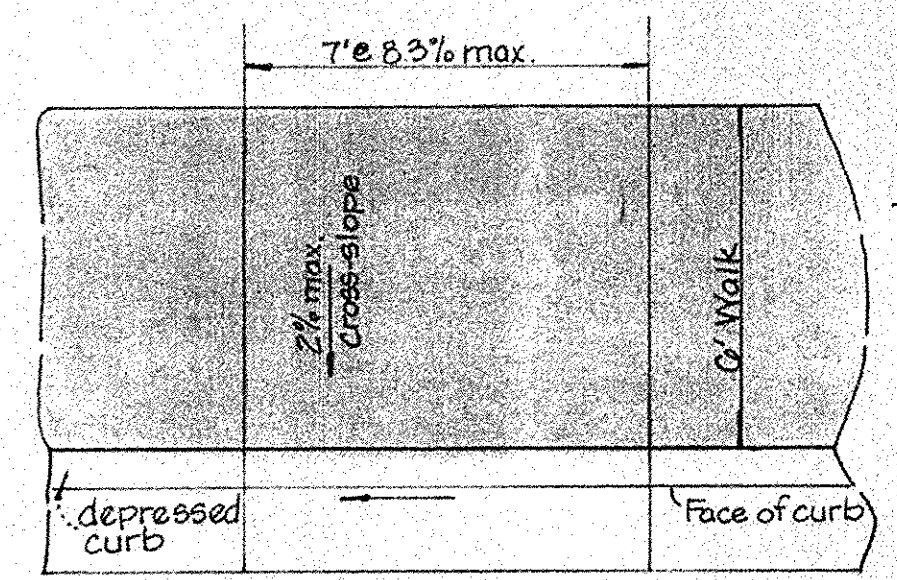
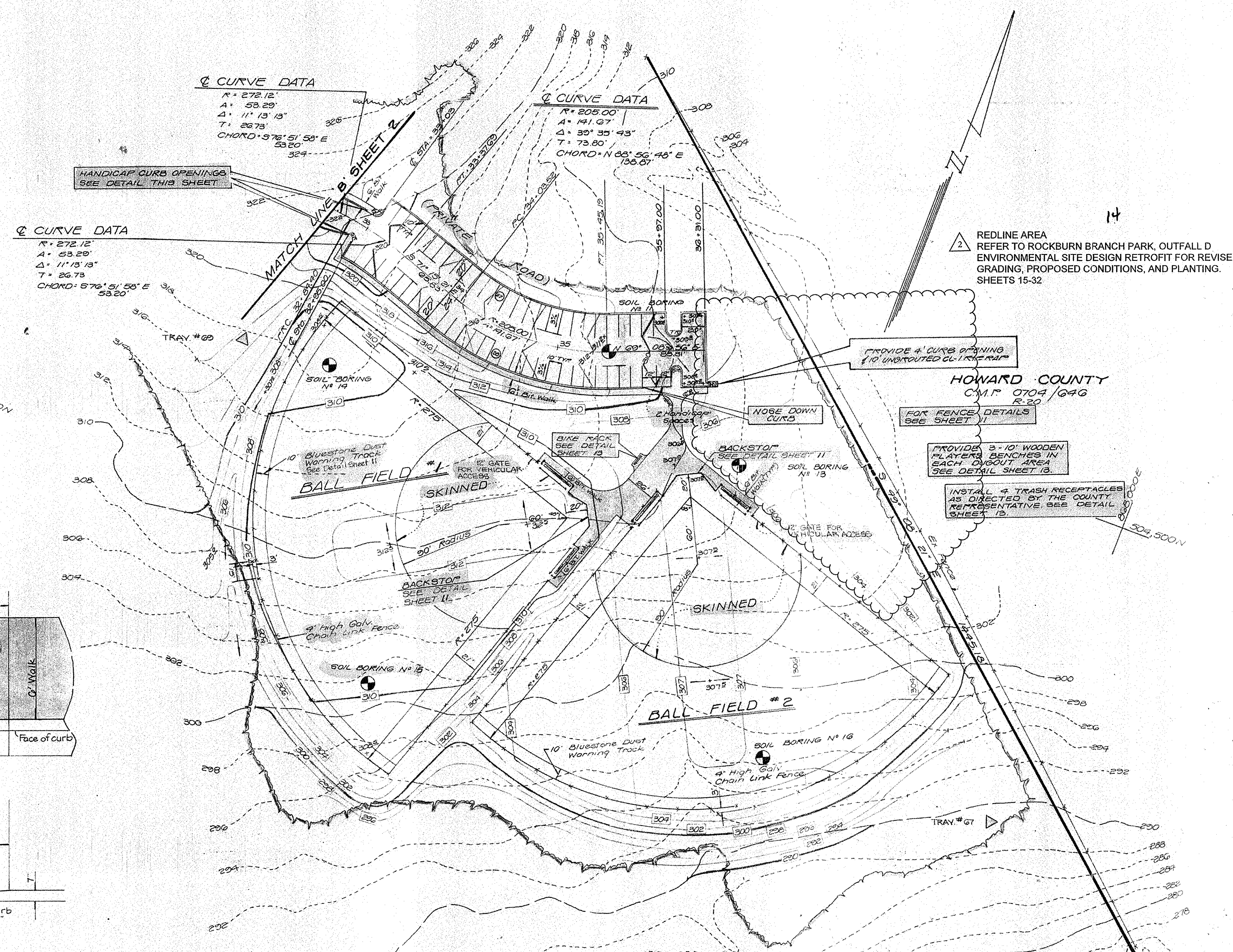
Nº	TYPE	TOP ELEVATION		LOCATION OF STRUCTURE	REMARKS
		UPPER	LOWER		
1	TYPE K - INLET	NOTCH	320.20	SEE PLAN	H.C. STD. DWG. D-03 PG. 148
3	STD A-10 INLET	331.30	331.24	25+00, 12'L	H.C. STD. DWG. 04-A PG. 110A
4	TYPE K - INLET	NOTCH	328.8	SEE PLAN	H.C. STD. DWG. D-03 PG. 148
5	STD A-10 INLET		320.50	SEE PLAN	H.C. STD. DWG. 04-A PG. 110A
6	STD A-10 INLET		331.0	SEE PLAN	"
7	STD A-10 INLET	329.11	329.01	27+75, 12'L	"
8	STD A-10 INLET	320.11	320.01	27+75, 12'R	"
9	STD C-ENDWALL		322.25		H.C. STD. DWG. D-52 PG. 107
20	TYPE K - INLET	NOTCH	324.75	SEE PLAN	H.C. STD. DWG. D-03 PG. 148
21	STD A-10 INLET	325.10	325.00	30+07, 24'L	H.C. STD. DWG. 04-A PG. 110A
22	STD A-10 INLET	327.00	326.05	1+00, 12'L	"
23	STD A-10 INLET	325.50	325.20	0+55, 12'R	"
24	STD A-10 INLET	323.37	323.10	32+40, 12'L	"
25	STD A-10 INLET	323.00	322.70	32+40, 22'R	"
26	STD C-ENDWALL		319.60		H.C. STD. DWG. D-52 PG. 107
30	STD A-10 INLET	370.02	375.00	12+00, 12'L	H.C. STD. DWG. 04-A PG. 110A
31	STD A-10 INLET	370.02	375.00	12+00, 12'R	"
32	STD C-ENDWALL		309.30	SEE PLAN	H.C. STD. DWG. D-52 PG. 107
40	TYPE K - INLET	NOTCH	330.00	SEE PLAN	H.C. STD. DWG. D-03 PG. 148
41	STD A-10 INLET	342.00	342.00	10+00, 12'L	H.C. STD. DWG. 04-A PG. 110A
42	STD A-10 INLET	342.00	342.00	10+00, 12'R	"
43	STD C-ENDWALL		330.50		H.C. STD. DWG. D-52 PG. 107
50	STD A-10 INLET	370.70	370.40	1+05, 30'R	H.C. STD. DWG. 04-A PG. 110A
51	STD A-10 INLET	370.70	370.40	1+05, 30'L	"
52	TYPE B - MANHOLE		300.04		W.S.S.C. STD. 60/20
53	STD A-10 INLET		369.60		H.C. STD. DWG. 04-A PG. 110A

PIPE SCHEDULE

SIZE	TYPE	LENGTH
15"	R.C.P. CL-4	137'
15"	R.C.P. CL-5	483'
18"	R.C.P. CL-4	232'
21"	R.C.P. CL-4	20'
24"	R.C.P. CL-4	20'
15"	C.M.P. 14 G.	14'
24"	C.M.P. 14 G.	20'



TYPICAL ROADWAY SECTION FOR STA. 32+95 TO STA. 35+97.00 NO SCALE



HANDICAP RAMP NO SCALE

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.

NO SANITARY FACILITIES PROVIDED COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.

PLANNING DIRECTOR DATE

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR DATE

CHIEF BUREAU OF ENGINEERING DATE

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

DATE \_\_\_\_\_ DIRECTOR \_\_\_\_\_

PLAN  
SCALE 1" = 20'

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit

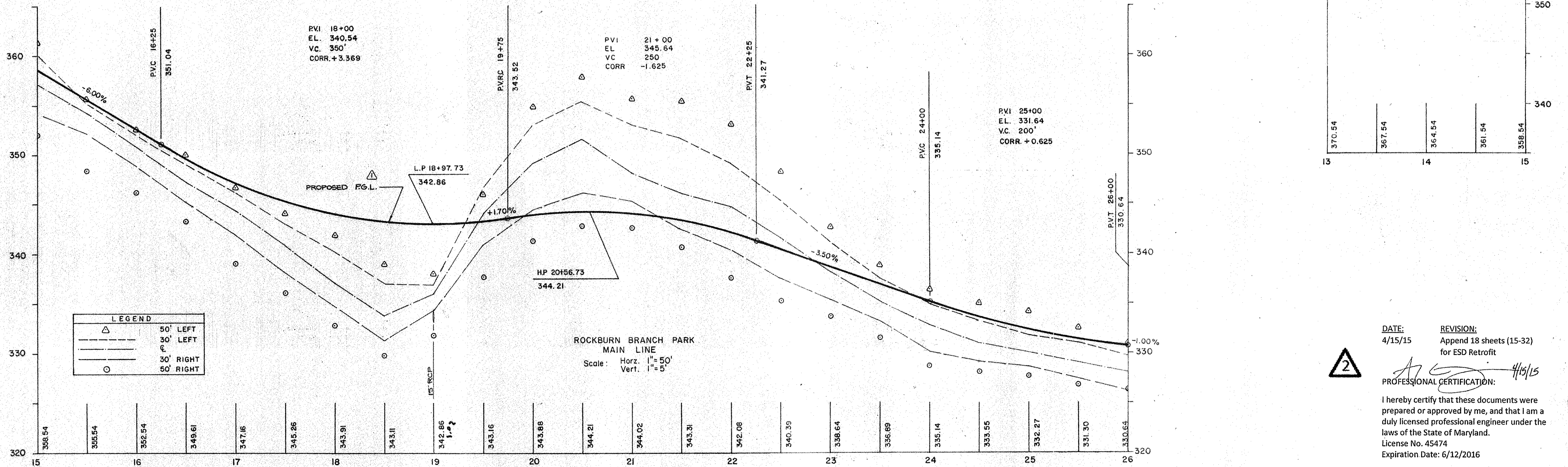
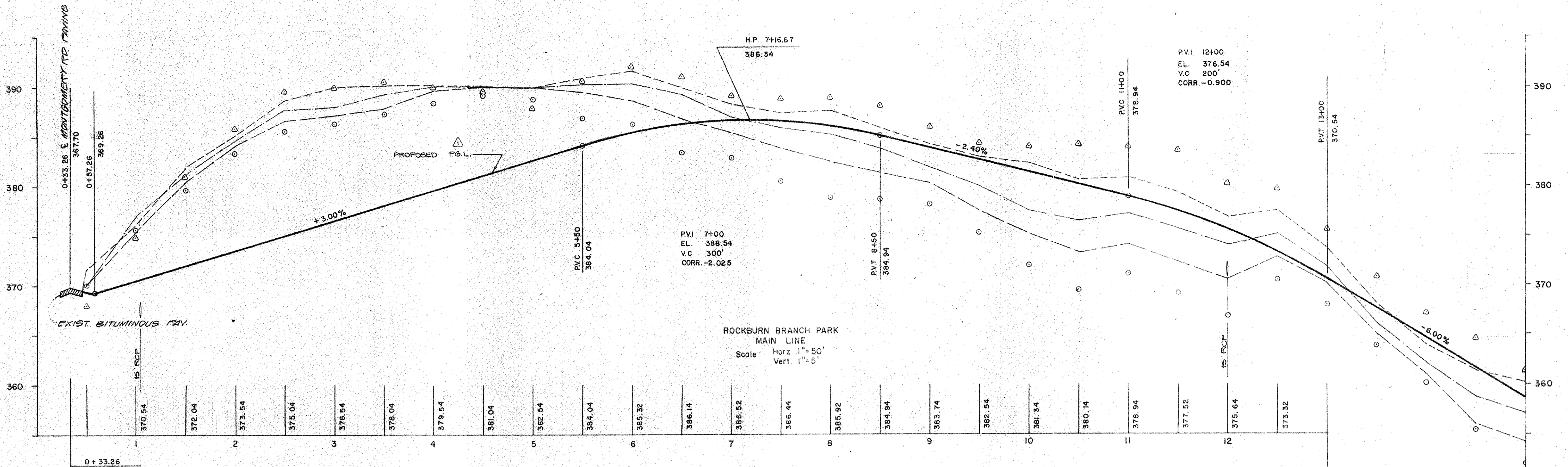
PROFESSIONAL CERTIFICATION: [Signature] 4/15/15

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 45474 Expiration Date: 6/12/2016

SITE DEVELOPMENT PLAN  
AREA "H"  
**ROCKBURN BRANCH PARK**  
TAX MAP - 31 LIBER 735 FOLIO 505 PARCEL - 235  
CAPITAL PROJECT Nº - N-3099 AA  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

Designed J.C.G. Drawn Betty  
Date NOV. 3, 1982 Scale 1" = 50'  
Job No. 82-103 Sheet 3 of 14

Macris, Hendricks and Witmer P.A.  
Engineers - Surveyors  
Suite 206  
15209 Frederick Road  
Rockville, MD. 20850  
(301) 774-0664 (301) 340-8705



**LEGEND**

△	50' LEFT
---	30' LEFT
○	30' RIGHT
○	50' RIGHT

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit



PROFESSIONAL CERTIFICATION: 4/15/15

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APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 7-23-85  
 7-23-85  
 APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 6-22-85  
 6-22-85

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
 NO SANITARY FACILITIES PROVIDED COUNTY HEALTH OFFICER  
 DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND  
 DATE 7-23-85

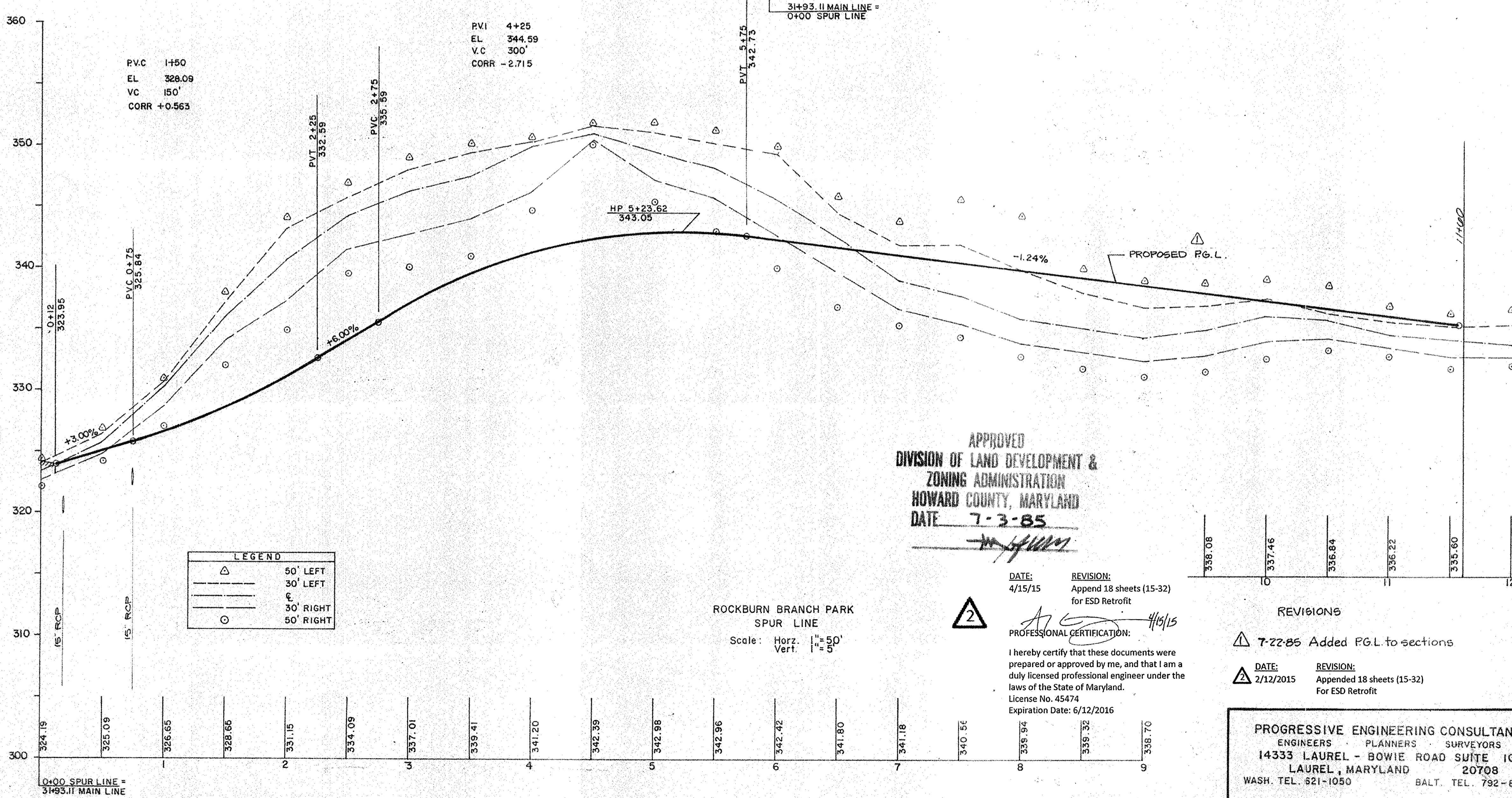
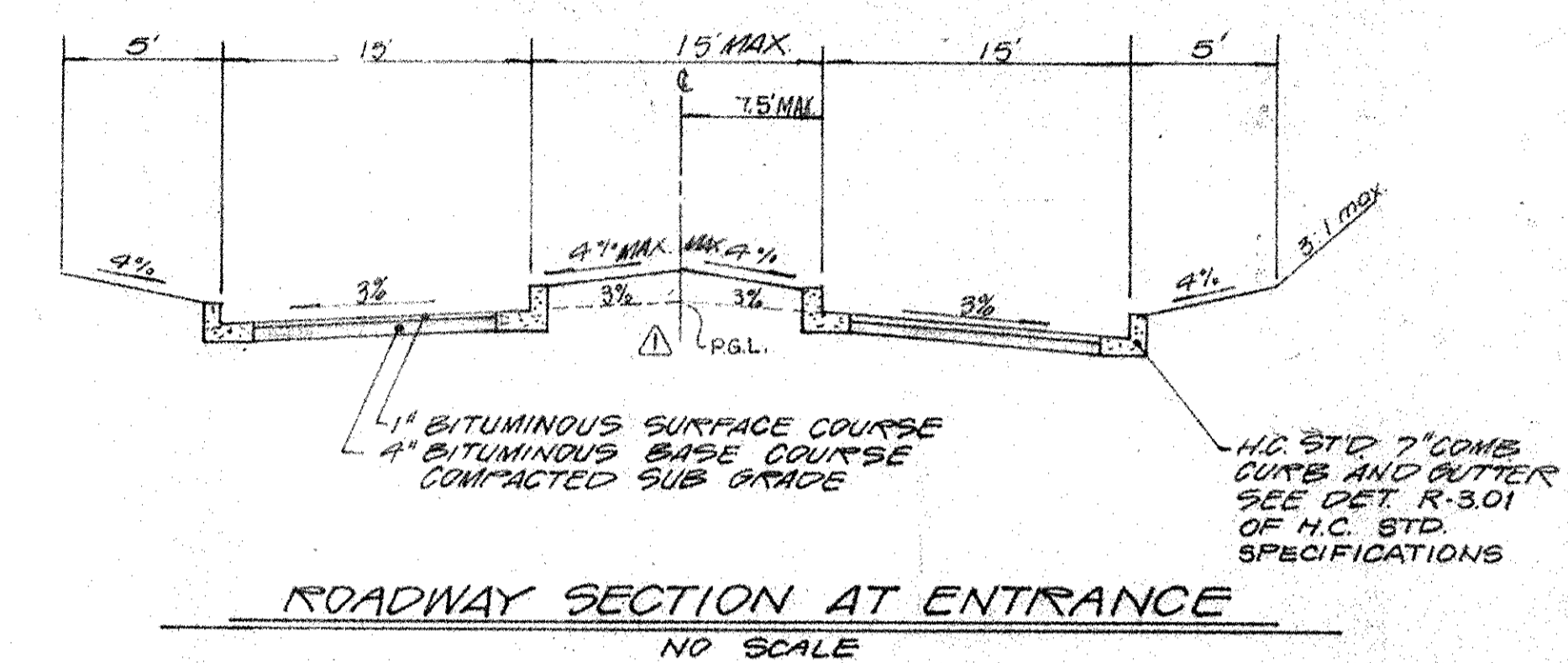
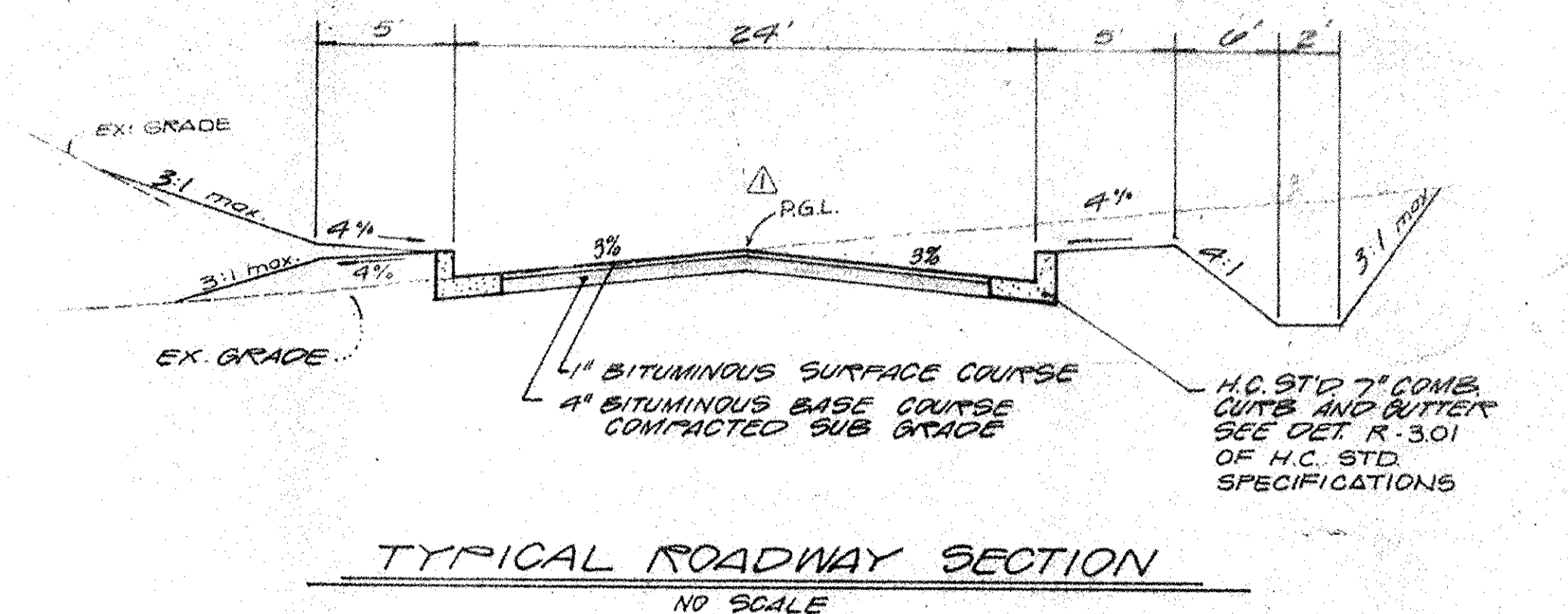
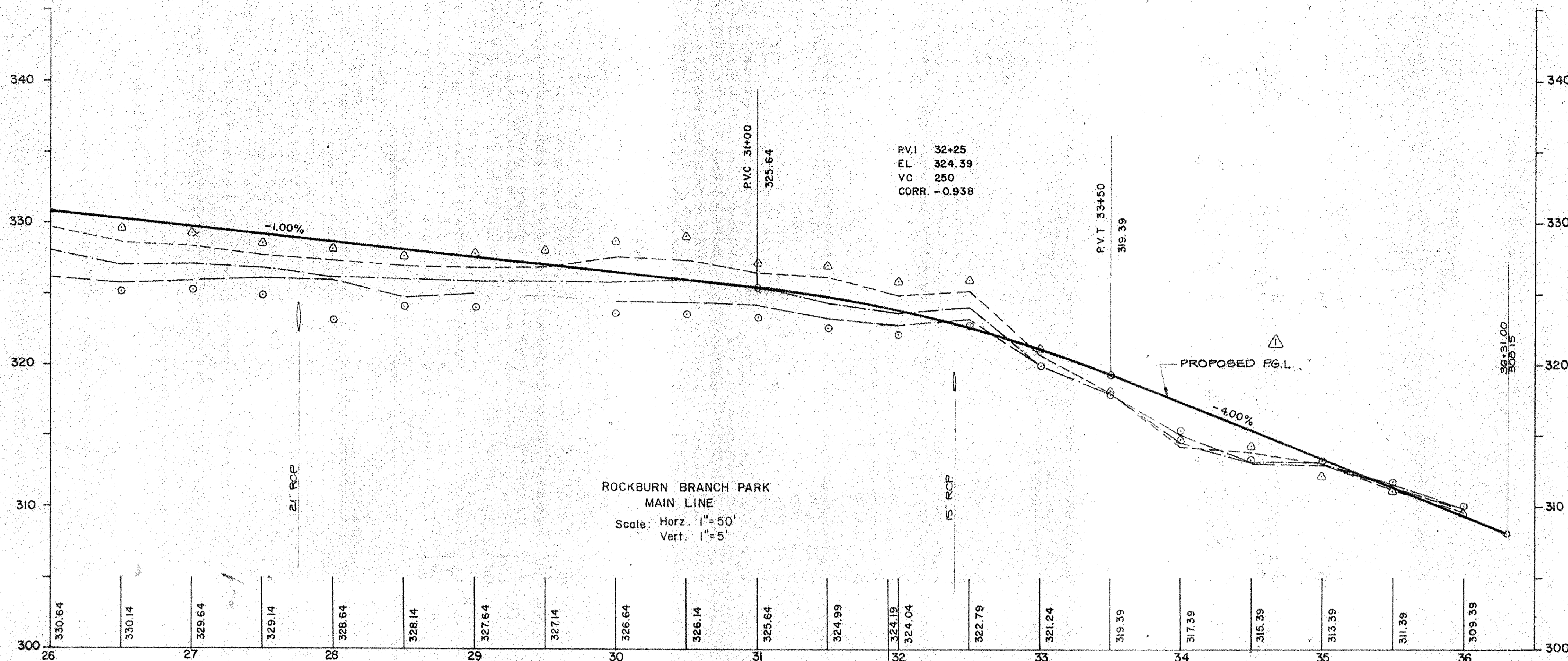
1.02 mi. 100  
 APPROVED DIVISION OF LAND DEVELOPMENT ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND DATE 7-3-85

PROGRESSIVE ENGINEERING CONSULTANTS ENGINEERS PLANNERS SURVEYORS 14333 LAUREL - BOWIE ROAD SUITE 108 LAUREL, MARYLAND 20708 WASH. TEL. 621-1050 BALT. TEL. 792-8632

**ROAD PROFILES**  
**ROCKBURN BRANCH PARK**  
 TAX MAP - 31 LIBER 785 FOLIO 505 PARCEL - 235  
 CAPITAL PROJECT NO - N-3040 AA  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

**Macris, Hendricks and Witmer P.A.**  
 Engineers - Surveyors  
 Suite 206  
 15209 Frederick Road  
 Rockville, MD 20850  
 (301) 774-0664 (301) 340-8705

Designed L.K.B.	Drawn L.K.B.
Date April 1985	Scale AS NOTED
Job No. 82-103	Sheet 9 of 18



APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 7-3-85

LEGEND

△	50' LEFT
—	30' LEFT
○	30' RIGHT
○	50' RIGHT

DATE: 4/15/15  
REVISION: Append 18 sheets (15-32) for ESD Retrofit

PROFESSIONAL CERTIFICATION:  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 45474  
Expiration Date: 6/12/2016

REVISIONS

△ 7-22-85 Added P.G.L. to sections

DATE: 2/12/2015 REVISION: Appended 18 sheets (15-32) For ESD Retrofit

APPROVED FOR PRIVATE WATER AND WASTE GENERATION SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
NO SANITARY FACILITIES PROVIDED  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND  
7-22-85  
DATE \_\_\_\_\_ DIRECTOR \_\_\_\_\_

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
7-23-85  
DATE \_\_\_\_\_ PLANNING DIRECTOR \_\_\_\_\_

7-22-85  
DATE \_\_\_\_\_ CHIEF DIVISION OF LAND DEVELOPMENT FOR ZONING ADMINISTRATION \_\_\_\_\_

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
6-21-85  
DATE \_\_\_\_\_ DIRECTOR \_\_\_\_\_

6-21-85  
DATE \_\_\_\_\_ CHIEF BUREAU OF ENGINEERING \_\_\_\_\_



ROAD AREA PROFILES  
ROCKBURN BRANCH PARK  
TAX MAP-31 LIBER 735 FOLIO 505 PARCEL-235  
CAPITAL PROJECT N-3040 AA  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

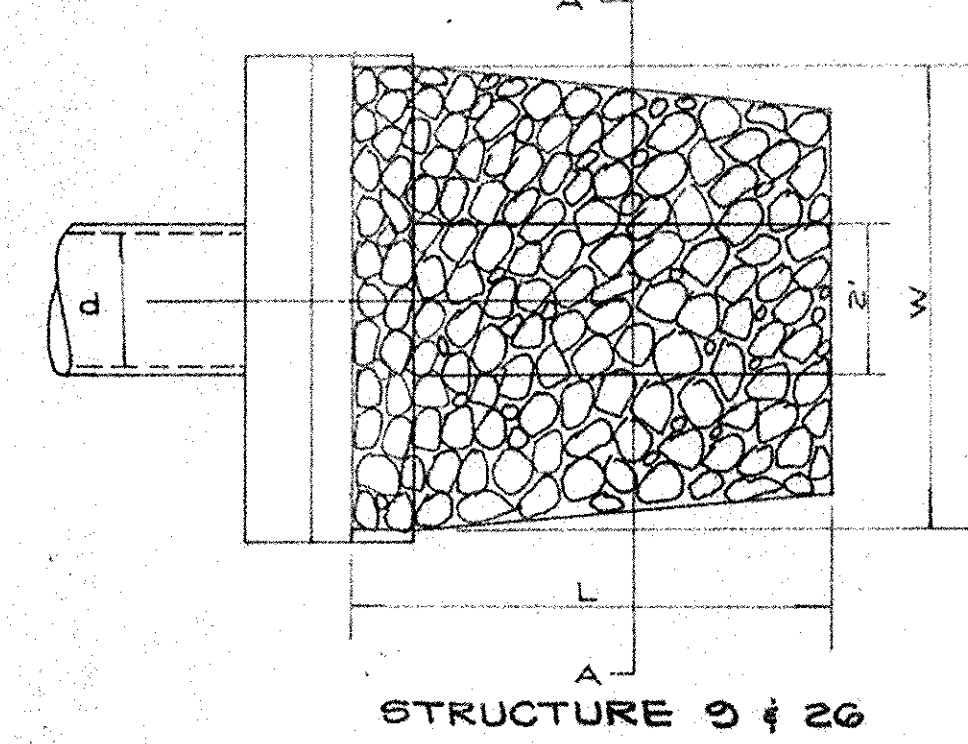
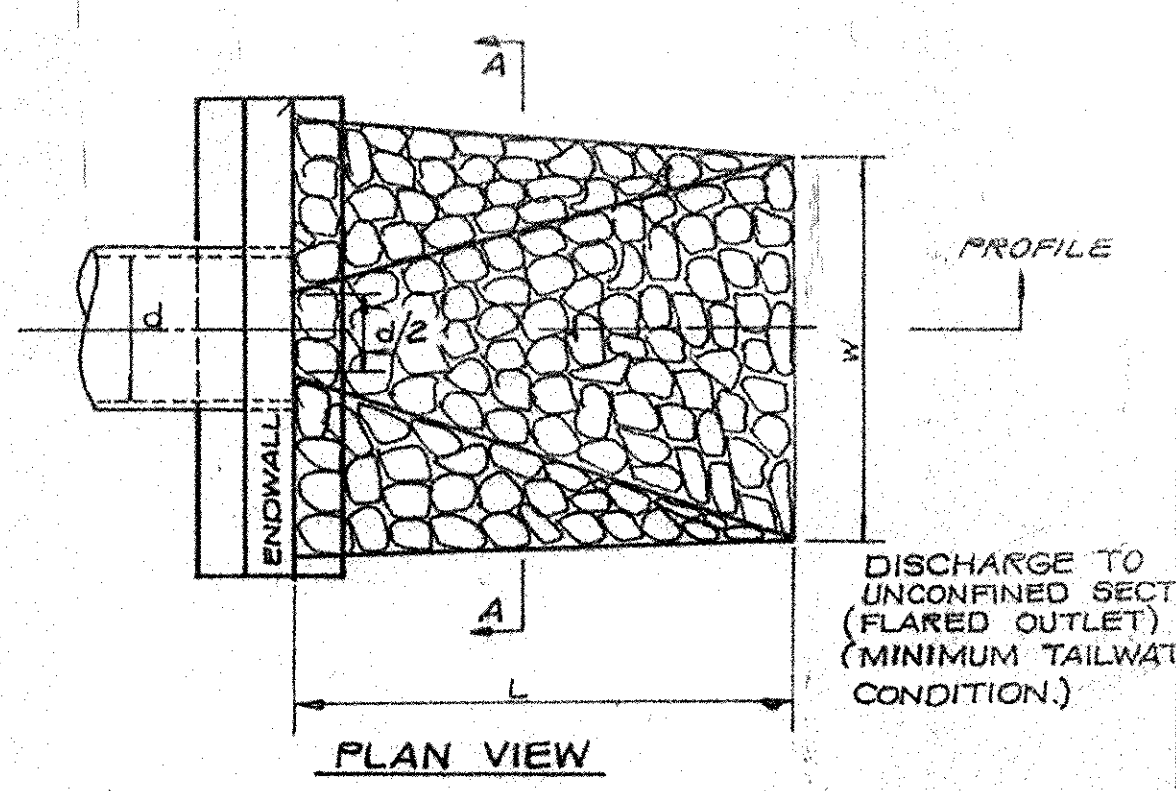
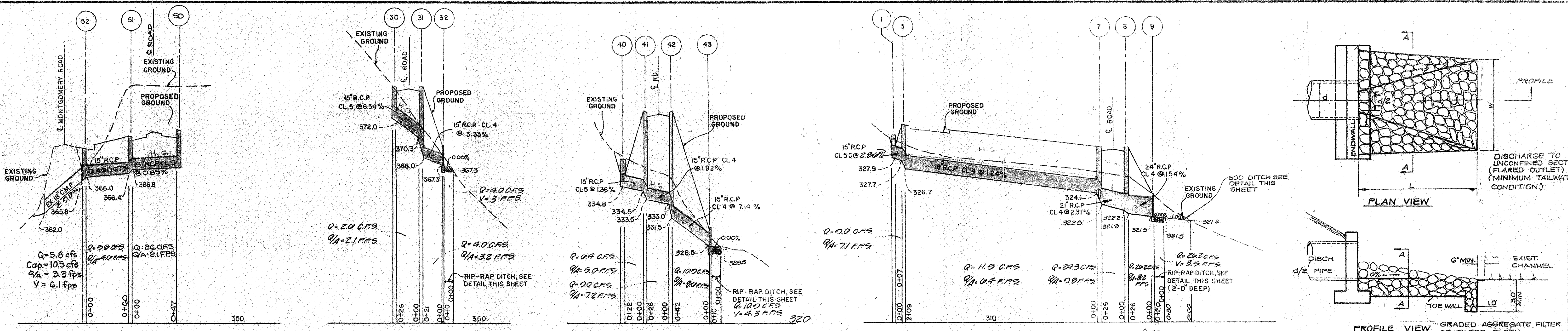
PROGRESSIVE ENGINEERING CONSULTANTS  
ENGINEERS PLANNERS SURVEYORS  
14333 LAUREL - BOWIE ROAD SUITE 108  
LAUREL, MARYLAND 20708  
WASH. TEL. 821-1050 BALT. TEL. 792-8632

Macris, Hendricks and Witmer P.A.  
Engineers-Surveyors  
Suite 206  
15209 Frederick Road  
Rockville, MD, 20850  
(301) 774-0664

Designed LKB  
Date April 1985  
Scale AS NOTED

Drawn LKB  
Date April 1985  
Scale AS NOTED

Job No. 82-103  
Sheet 2 of 2



DISCHARGE TO UNCONFINED SECTION (FLARED OUTLET) (MINIMUM TAILWATER CONDITION.)

PROFILE VIEW

GRADED AGGREGATE FILTER OR FILTER CLOTH

RIP-RAP TO BE EMBEDDED IN PROPOSED TRANSITION SECTION.

ORIGINAL GRADE

6" MIN.

6" MIN.

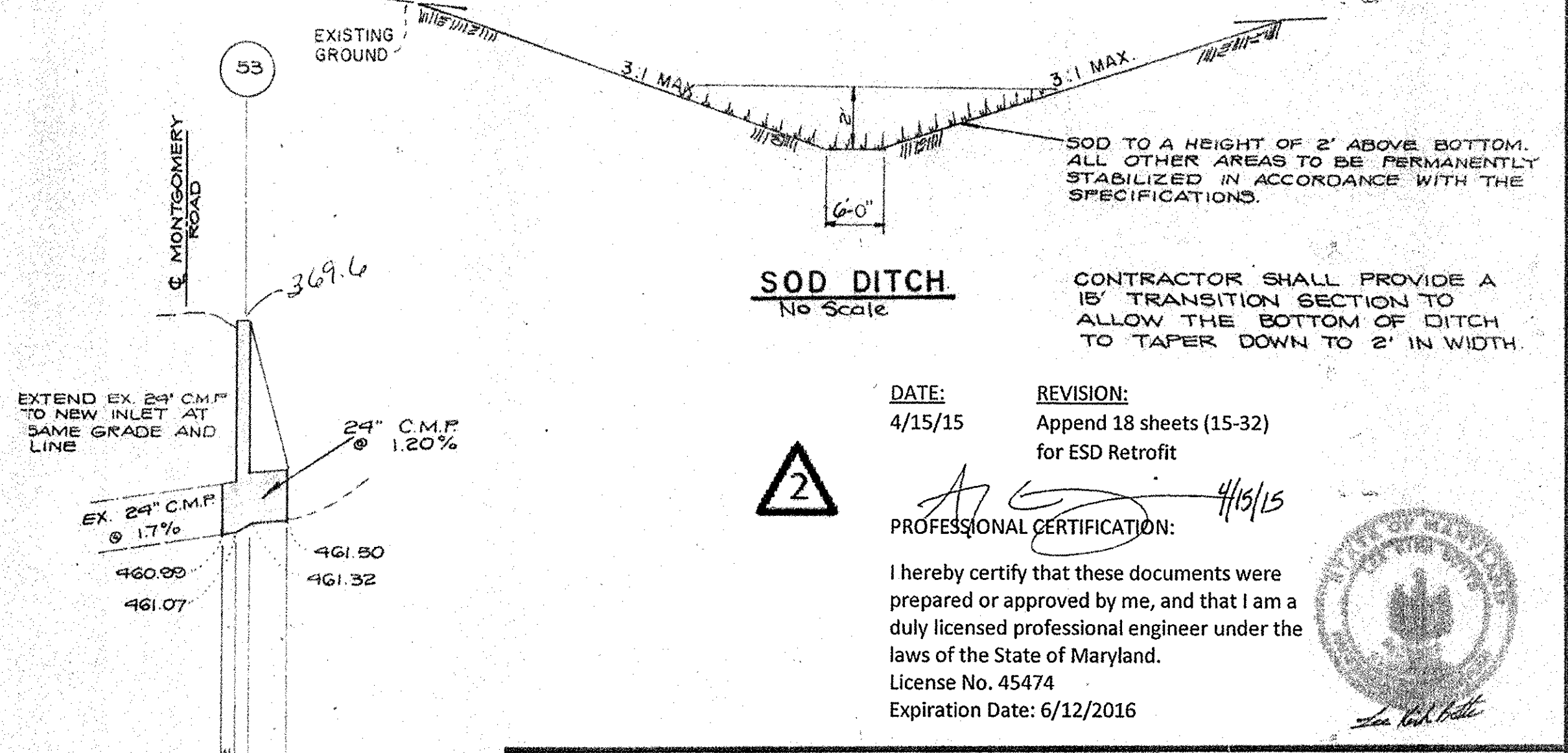
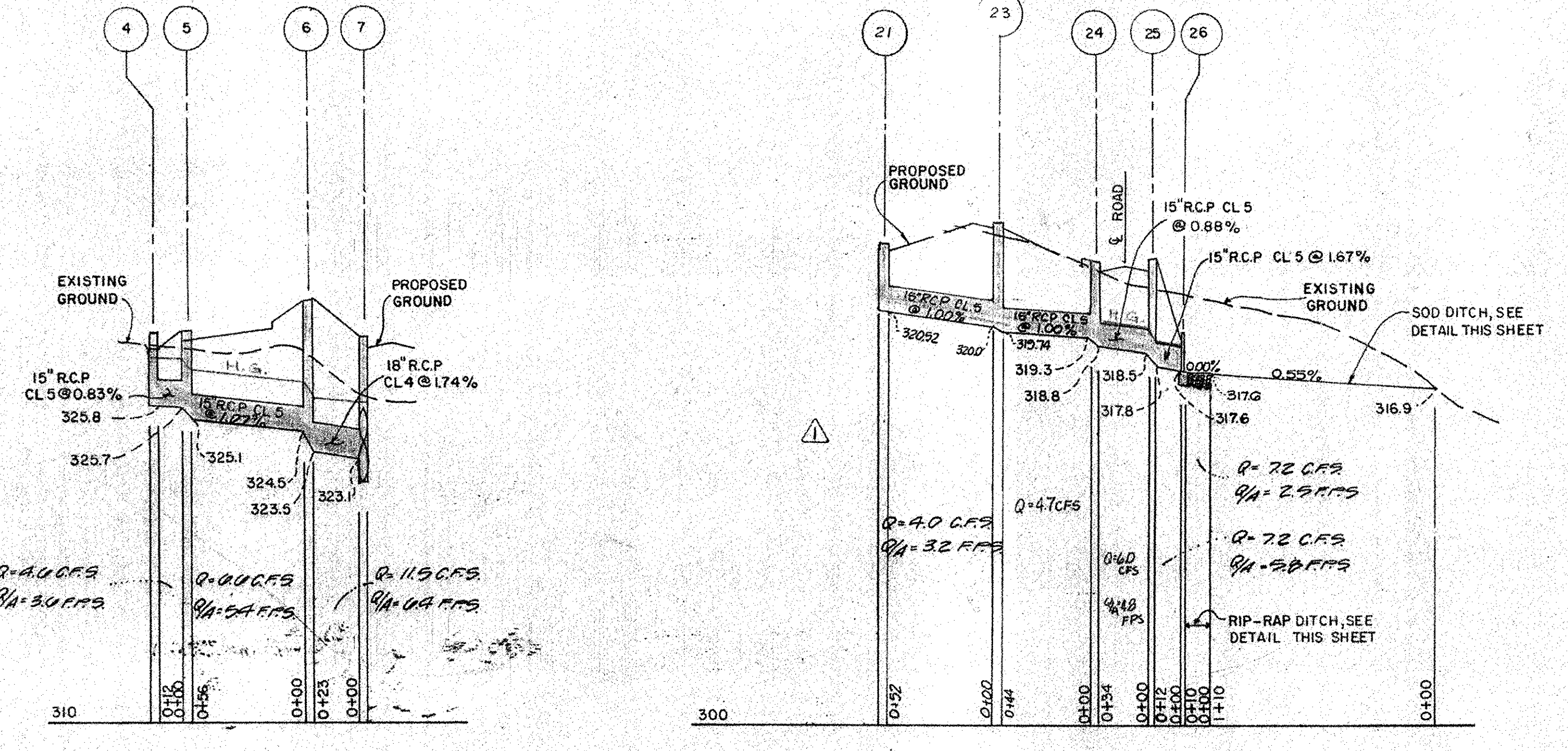
18" RIP RAP

CROSS SECTION A-A

**RIP-RAP OUTLET PROTECTION**

NO SCALE

AT STR. NO.	d	L	W	U.S.D.A. SCS. STD. MIN. STONE SIZE
9	20"	20'	12'	d <sub>50</sub> = 0.50'
20	125"	10'	7'	d <sub>50</sub> = 0.50'
32	125"	10'	10'	d <sub>50</sub> = 0.75'
43	125"	14'	15'	d <sub>50</sub> = 0.75'
ALL CURB OPENINGS	10"	10'	15'	d <sub>50</sub> = 0.75'



**SOD DITCH**  
No Scale

CONTRACTOR SHALL PROVIDE A 15' TRANSITION SECTION TO ALLOW THE BOTTOM OF DITCH TO TAPER DOWN TO 2' IN WIDTH.

DATE: 4/15/15  
REVISION: Append 18 sheets (15-32) for ESD Retrofit

PROFESSIONAL CERTIFICATION:

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 45474  
Expiration Date: 6/12/2016

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

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
DATE: 7-23-85  
DATE: 7-23-85

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DATE: 6-27-85  
DATE: 6-27-85

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
NO SANITARY FACILITIES PROVIDED  
DATE: 7-23-85

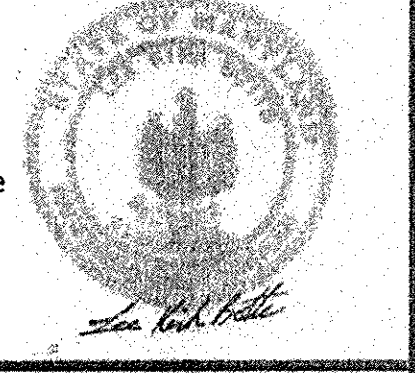
DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND  
DATE: 7-23-85

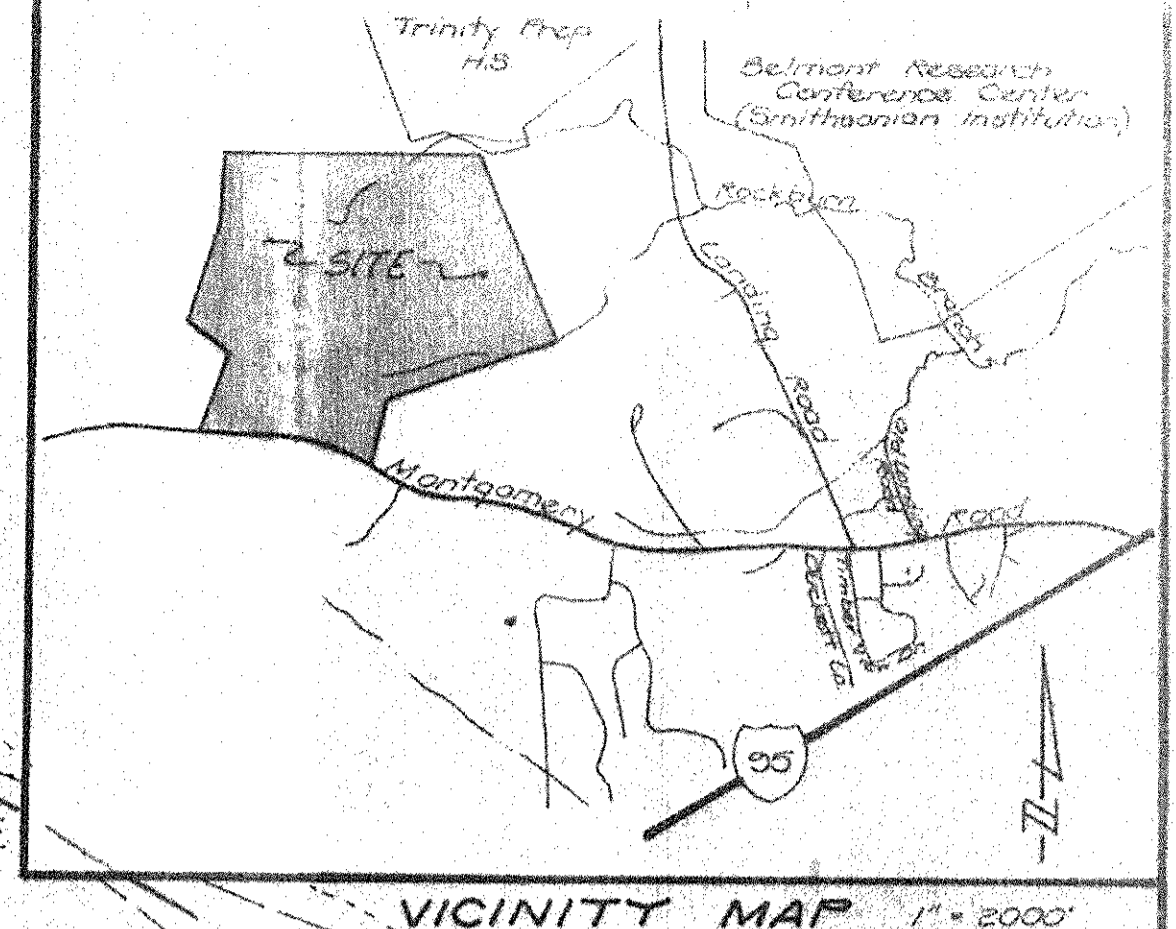
APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 7-3-85

PROGRESSIVE ENGINEERING CONSULTANTS  
ENGINEERS PLANNERS SURVEYORS  
14333 LAUREL - BOWIE ROAD SUITE 108  
LAUREL, MARYLAND 20708  
WASH. TEL. 621-1050 BALT. TEL. 792-8632

Macris, Hendricks and Witmer P.A.  
Engineers - Surveyors  
Suite 206  
15209 Frederick Road  
Rockville, MD. 20850  
(301) 774-0664 (301) 340-8705

Designed G.S.  
Date April 1985  
Job No. 82-103  
Sheet 9 of 14

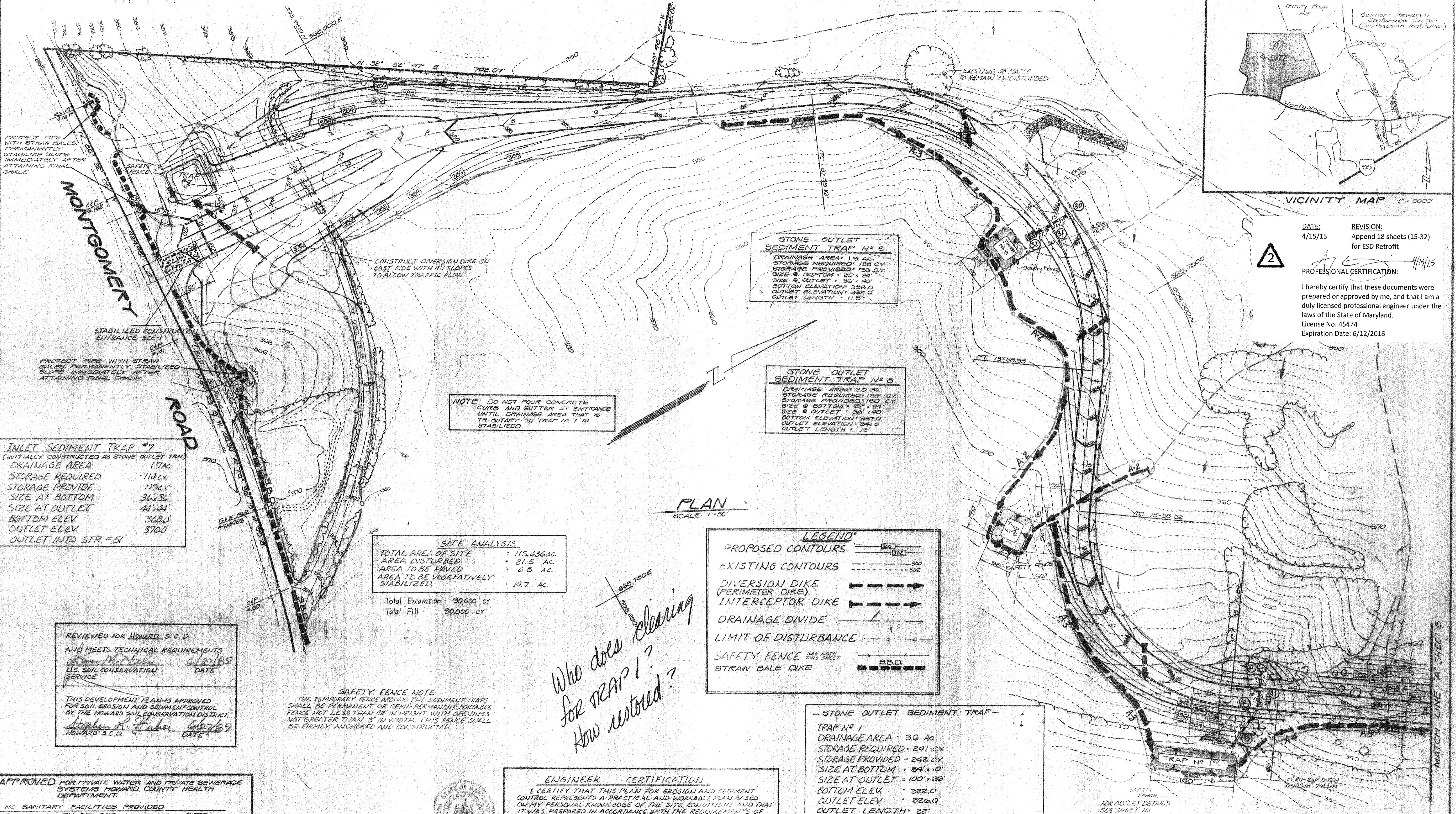




DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit



PROFESSIONAL CERTIFICATION:  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 45474 Expiration Date: 6/12/2016



**INLET SEDIMENT TRAP #7**  
(INITIALLY CONSTRUCTED AS STONE OUTLET TRAP)  
DRAINAGE AREA: 17AC  
STORAGE REQUIRED: 114 CY  
STORAGE PROVIDED: 119 CY  
SIZE @ BOTTOM: 36' x 36'  
SIZE @ OUTLET: 44' x 44'  
BOTTOM ELEV: 368.0  
OUTLET ELEV: 370.0  
OUTLET INTO STR #51

**STONE-OUTLET SEDIMENT TRAP #9**  
DRAINAGE AREA: 1.3 AC  
STORAGE REQUIRED: 128 CY  
STORAGE PROVIDED: 123 CY  
SIZE @ BOTTOM: 20' x 24'  
SIZE @ OUTLET: 36' x 40'  
BOTTOM ELEVATION: 385.0  
OUTLET ELEVATION: 385.0  
OUTLET LENGTH: 11.5'

**STONE OUTLET SEDIMENT TRAP #8**  
DRAINAGE AREA: 2.0 AC  
STORAGE REQUIRED: 124 CY  
STORAGE PROVIDED: 130 CY  
SIZE @ BOTTOM: 22' x 24'  
SIZE @ OUTLET: 35' x 40'  
BOTTOM ELEVATION: 337.0  
OUTLET ELEVATION: 341.0  
OUTLET LENGTH: 12'

**NOTE:** DO NOT POUR CONCRETE CURBS AND GUTTER AT ENTRANCE UNTIL DRAINAGE AREA THAT IS TRIANGULAR TO TRAP #7 IS STABILIZED.

**SITE ANALYSIS**  
TOTAL AREA OF SITE: 115.636 AC  
AREA DISTURBED: 21.5 AC  
AREA TO BE PAVED: 6.8 AC  
AREA TO BE VEGETATIVELY STABILIZED: 14.7 AC  
Total Excavation: 90,000 cy  
Total Fill: 90,000 cy

**LEGEND**  
PROPOSED CONTOURS: ---  
EXISTING CONTOURS: - - -  
DIVERSION DIKE (PERIMETER DIKE): - - - - -  
INTERCEPTOR DIKE: - - - - -  
DRAINAGE DIVIDE: /  
LIMIT OF DISTURBANCE: ---  
SAFETY FENCE: SEE NOTE THIS SHEET  
STRAW BALE DIKE: [Symbol]

**STONE OUTLET SEDIMENT TRAP**  
TRAP #1  
DRAINAGE AREA: 3.0 AC  
STORAGE REQUIRED: 241 CY  
STORAGE PROVIDED: 242 CY  
SIZE AT BOTTOM: 84' x 10'  
SIZE AT OUTLET: 100' x 26'  
BOTTOM ELEV: 322.0  
OUTLET ELEV: 326.0  
OUTLET LENGTH: 22'

**SAFETY FENCE NOTE**  
THE TEMPORARY FENCE AROUND THE SEDIMENT TRAPS SHALL BE PERMANENT OR SEMI-PERMANENT PORTABLE FENCE NOT LESS THAN 32" IN HEIGHT WITH OPENINGS NOT GREATER THAN 5" IN WIDTH. THIS FENCE SHALL BE FIRMLY ANCHORED AND CONSTRUCTED.

*Who does clearing for TRAP 1?  
How restored?*

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
*[Signature]* 6/27/85  
U.S. SOIL CONSERVATION SERVICE DATE  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT  
*[Signature]* 6/27/85  
HOWARD S.C.D. DATE

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
NO SANITARY FACILITIES PROVIDED  
COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
*[Signature]* 7-23-85  
PLANNING DIRECTOR DATE  
*[Signature]* 7-23-85  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
DIRECTOR DATE  
CHIEF BUREAU OF ENGINEERING DATE

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND  
DATE 7-3-85  
DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND  
DATE 7-23-85

**ENGINEER CERTIFICATION**  
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.  
*[Signature]* 12-2-85

**DEVELOPER CERTIFICATION**  
I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ALL 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.  
*[Signature]* 12-2-85

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL ONLY.

REVISIONS  
7-22-85 Rev. Entrance & S.C.E.

**OWNER/DEVELOPER**  
HOWARD COUNTY DEPARTMENT OF RECREATION AND PARKS  
3430 COURT HOUSE DRIVE  
ELLCOTT CITY, MARYLAND 21043  
301-202-2480

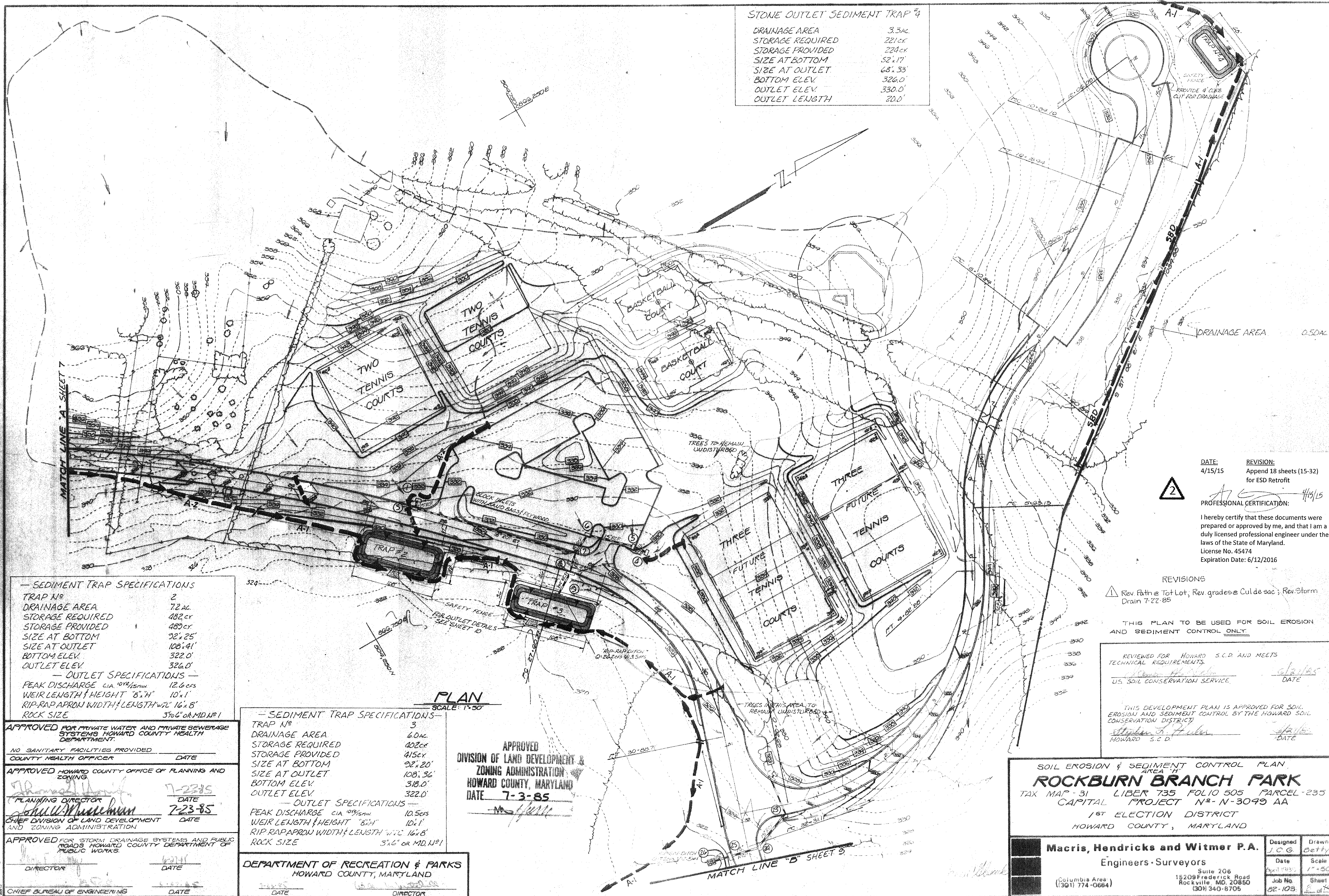
**SOIL EROSION/SEDIMENT CONTROL PLAN**  
AREA #1  
**ROCKBURN BRANCH PARK**  
TAX MAP - 31 LIBER 785 FOLIO 505 PARCEL - 235  
CAPITAL PROJECT N<sup>o</sup> - N-3099 AA  
1<sup>ST</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**Macris, Hendricks and Witmer P.A.**  
Engineers-Surveyors  
Suite 208  
15209 Frederick Road  
Rockville, MD 20850  
(301) 340-8708

Designed: J.C.G. Drawn: Betty  
Date: Apr. 1985 Scale: 1" = 50'  
Job No: 88-103 Sheet: 7 of 12

**STONE OUTLET SEDIMENT TRAP #4**

DRAINAGE AREA	3.3 ac
STORAGE REQUIRED	221 cy
STORAGE PROVIDED	224 cy
SIZE AT BOTTOM	52' x 17'
SIZE AT OUTLET	68' x 33'
BOTTOM ELEV.	326.0'
OUTLET ELEV.	330.0'
OUTLET LENGTH	20.0'



**— SEDIMENT TRAP SPECIFICATIONS**

TRAP N <sup>o</sup>	2
DRAINAGE AREA	7.2 ac
STORAGE REQUIRED	482 cy
STORAGE PROVIDED	489 cy
SIZE AT BOTTOM	92' x 25'
SIZE AT OUTLET	108' x 41'
BOTTOM ELEV.	322.0'
OUTLET ELEV.	326.0'

**— OUTLET SPECIFICATIONS —**

PEAK DISCHARGE C/A 10 <sup>3</sup> /15min	12.6 cfs
WEIR LENGTH & HEIGHT 8" x 4"	10' x 1'
RIP RAP APRON WIDTH & LENGTH W/C 16' x 8'	
ROCK SIZE	3" x 6" or MD. N <sup>o</sup> 1

**— SEDIMENT TRAP SPECIFICATIONS —**

TRAP N <sup>o</sup>	3
DRAINAGE AREA	6.0 ac
STORAGE REQUIRED	402 cy
STORAGE PROVIDED	415 cy
SIZE AT BOTTOM	92' x 20'
SIZE AT OUTLET	108' x 36'
BOTTOM ELEV.	318.0'
OUTLET ELEV.	322.0'

**— OUTLET SPECIFICATIONS —**

PEAK DISCHARGE C/A 10 <sup>3</sup> /15min	10.5 cfs
WEIR LENGTH & HEIGHT 8" x 4"	10' x 1'
RIP RAP APRON WIDTH & LENGTH W/C 16' x 8'	
ROCK SIZE	3" x 6" or MD. N <sup>o</sup> 1

**PLAN**  
SCALE: 1" = 50'

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 7-3-85

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

NO SANITARY FACILITIES PROVIDED  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR \_\_\_\_\_ DATE 7-23-85

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
\_\_\_\_\_  
DATE 7-23-85

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND

\_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR \_\_\_\_\_

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit

PROFESSIONAL CERTIFICATION: *[Signature]* 4/15/15

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 45474  
Expiration Date: 6/12/2016

REVISIONS

Rev Path @ Tot Lot, Rev grades @ Cul de sac; Rev Storm Drain 7-22-85

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL ONLY

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

\_\_\_\_\_  
U.S. SOIL CONSERVATION SERVICE. DATE 6/2/85

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

\_\_\_\_\_  
HOWARD S.C.D. DATE 4/15/15

SOIL EROSION & SEDIMENT CONTROL PLAN  
AREA

**ROCKBURN BRANCH PARK**

TAX MAP - 31 LIBER 735 FOLIO 505 PARCEL - 235  
CAPITAL PROJECT N<sup>o</sup> - N-3099 AA  
1<sup>ST</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**Macris, Hendricks and Witmer P.A.**  
Engineers - Surveyors

Suite 206  
15209 Frederick Road  
Rockville, MD. 20850  
(301) 340-8706

Designed	JCG	Drawn	Betty
Date	April 1985	Scale	1" = 50'
Job No.	02-108	Sheet	6 of 18

SDP-85-232



**Q CURVE DATA**  
 R = 272.12  
 Δ = 53.23°  
 Δ = 11' 13.13"  
 T = 26.73  
 CHORD = S 76° 51' 58" E  
 53.20

**Q CURVE DATA**  
 R = 209.00  
 Δ = 41.07°  
 Δ = 39° 35' 43"  
 T = 73.80  
 CHORD = N 03° 56' 48" E  
 136.87

**Q CURVE DATA**  
 R = 272.12  
 Δ = 53.23°  
 Δ = 11' 13.13"  
 T = 26.73  
 CHORD = S 76° 51' 58" E  
 53.20

2 REDLINE AREA  
 REFER TO ROCKBURN BRANCH PARK, OUTFALL D  
 ENVIRONMENTAL SITE DESIGN RETROFIT FOR REVISED  
 EROSION AND SEDIMENT CONTROL  
 SHEETS 22 AND 23

**SEDIMENT TRAP N<sup>o</sup> 5**  
 DRAINAGE AREA = 4.5 AC.  
 STORAGE REQUIRED = 302 CY.  
 STORAGE PROVIDED = 309 CY.  
 SIZE @ BOTTOM = 65' x 20'.  
 SIZE @ OUTLET = 81' x 36'.  
 BOTTOM ELEVATION = 250.0'  
 OUTLET ELEVATION = 254.0'  
 STONE OUTLET LENGTH = 27'

**SEDIMENT TRAP N<sup>o</sup> 6**  
 DRAINAGE AREA = 3.9 AC.  
 STORAGE REQUIRED = 228 CY.  
 STORAGE PROVIDED = 229 CY.  
 SIZE @ BOTTOM = 55' x 25'.  
 SIZE @ OUTLET = 70' x 35'.  
 BOTTOM ELEVATION = 254.0'  
 OUTLET ELEVATION = 257.0'  
 STONE OUTLET LENGTH = 20'

2

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit  
 PROFESSIONAL CERTIFICATION: [Signature] 4/15/15  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 45474 Expiration Date: 6/12/2016

THIS PLAN TO BE USED FOR SOIL EROSION AND SEDIMENT CONTROL ONLY

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS  
 [Signature] 6/27/05 DATE  
 US SOIL CONSERVATION SERVICE

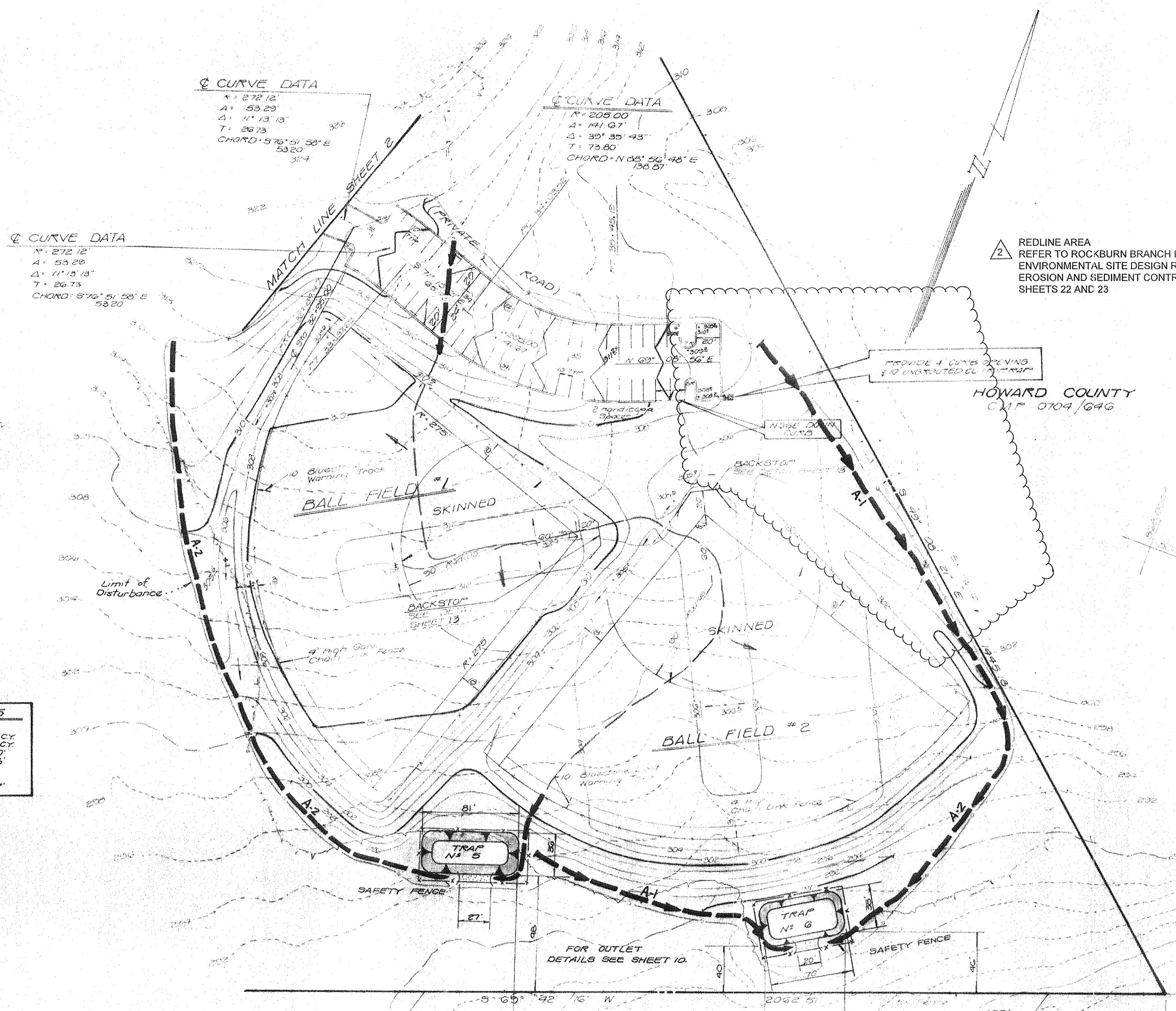
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.  
 [Signature] 6/27/05 DATE  
 HOWARD COUNTY S.C.D.

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
 COUNTY HEALTH OFFICER: [Signature] DATE: [Blank]  
 NO SANITARY FACILITIES PROVIDED  
 APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR: [Signature] DATE: 7-23-85  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION: [Signature] DATE: 7-23-85  
 APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR: [Signature] DATE: 7-23-85  
 CHIEF BUREAU OF ENGINEERING: [Signature] DATE: [Blank]

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 DIRECTOR: [Signature] DATE: 7-23-85

PLAN  
 SCALE: 1" = 50'  
 APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE: 7-3-85  
 [Signature]

SOIL EROSION & SEDIMENT CONTROL PLAN  
 AREA: [Blank]  
**ROCKBURN BRANCH PARK**  
 TAX MAP 31 LIBER 735 FOLIO 505 PARCEL 235  
 CAPITAL PROJECT N-3049 AA  
 1ST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 Macris, Hendricks and Witmer P.A.  
 Engineers - Surveyors  
 Suite 206  
 15209 Fire Tower Road  
 Bel Air, MD 21034  
 TEL: 410-221-2000  
 FAX: 410-221-2001  
 Designed: J.C.G. Drawn: Betty  
 Date: April 1985 Scale: 1" = 50'  
 Job No: 82-103 Sheet: 9 of 9  
 SDP-85-232



**PERMANENT SEEDING NOTES**

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

**Seeding Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

- Soil Amendments:** In lieu of soil test recommendations, use one of the following schedules
- 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq ft).
  - 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.

**Seeding:** For periods March 1 thru April 30, and August 1 thru October 15, seed with 50 lbs per acre (1.4 lbs/1000 sq ft) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (.05 lbs/1000 sq ft) of creeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq ft) for anchoring.

**Maintenance:** Inspect all seeded areas and make needed repairs, replacements and reseedings.

**TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

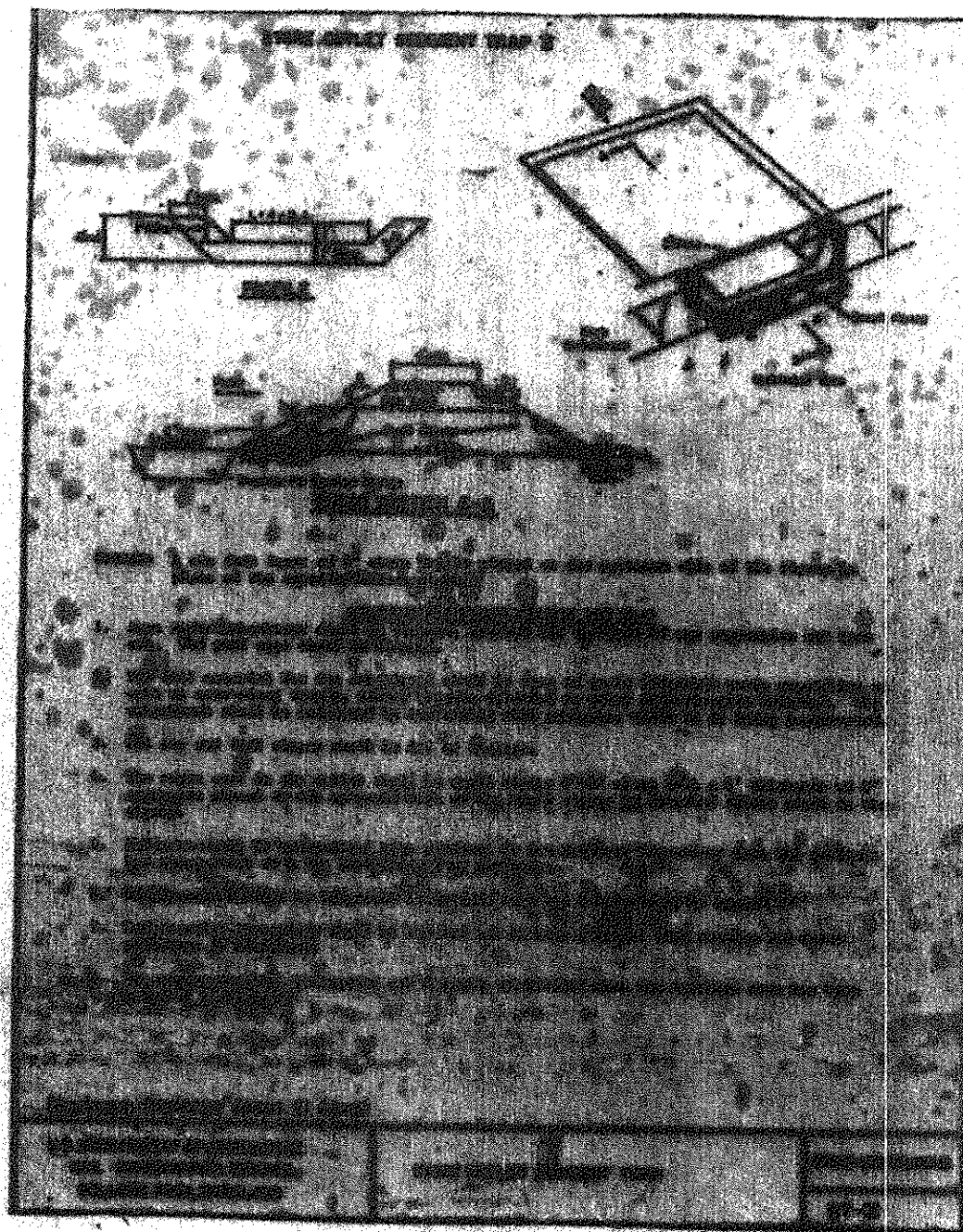
**Seeding Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding.

**Soil Amendments:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)

**Seeding:** For periods March 1 thru April 30 and from August 15 thru November 15, seed with 24 bushels per acre of annual ryegrass (2.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 2 lbs per acre of weeping lovegrass (.07 lbs/1000 sq ft). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

**Mulching:** Apply 1 1/2 to 2 tons per acre (70 to 90 lbs/1000 sq ft) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal per acre (5 gal/1000 sq ft) of emulsified asphalt on flat areas. On slopes 8 ft or higher, use 348 gal per acre (8 gal/1000 sq ft) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rates and methods not covered.



**GENERAL NOTES**

- 1) Contractor shall notify the Howard County Sediment Control Division at least 24 hours before beginning any work. Phone - 992-2436
- 2) All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control.
- 3) Following initial disturbance or re-disturbance, permanent or temporary stabilization shall be completed within:
  - a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1.
  - b) 14 calendar days as to all other disturbed or graded areas on project site.
- 4) All sediment traps and/or structures must be fenced and warning signs posted around the perimeter in accordance with Section 2, Chapter 18 of the Howard County Design Manual, Storm Drainage.
- 5) All disturbed areas must be stabilized within the time periods specified. However, upon the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for permanent seeding (Section 21, Sub-Section 21.1), temporary seeding (Section 22) and mulching (Section 23). Temporary stabilization will only be done when recommended seeding rates do not allow for proper germination and establishment of grasses.
- 6) All sediment control structures are to remain in place and use the design in connection with the final construction for this project. Contact the District Engineer, the Howard County Sediment Control Division.
- 7) Site analysis and design.
- 8) Any sediment control structure installed by grading activities or placement of utilities must be removed on the same day of disturbance.
- 9) Additional sediment control must be provided, if deemed necessary by the Howard County Department of Public Works, Sediment Control Inspector.
- 10) On all areas with drainage area in excess of 1 acre approval of the Inspection Agency shall be requested upon completion of installation or permanent erosion and sediment control but before proceeding with any other earth disturbance or grading. Other building or grading inspection approval may not be authorized until this initial approval by Inspection Agency is made.

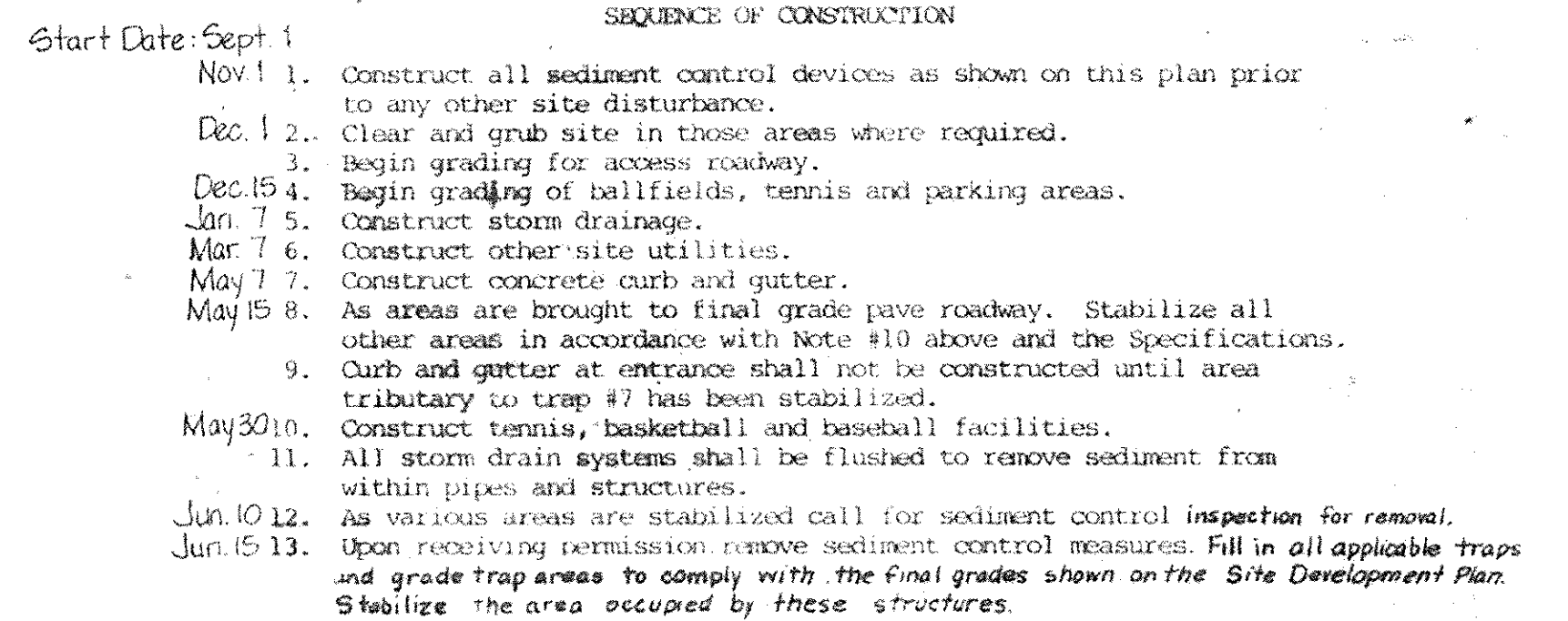
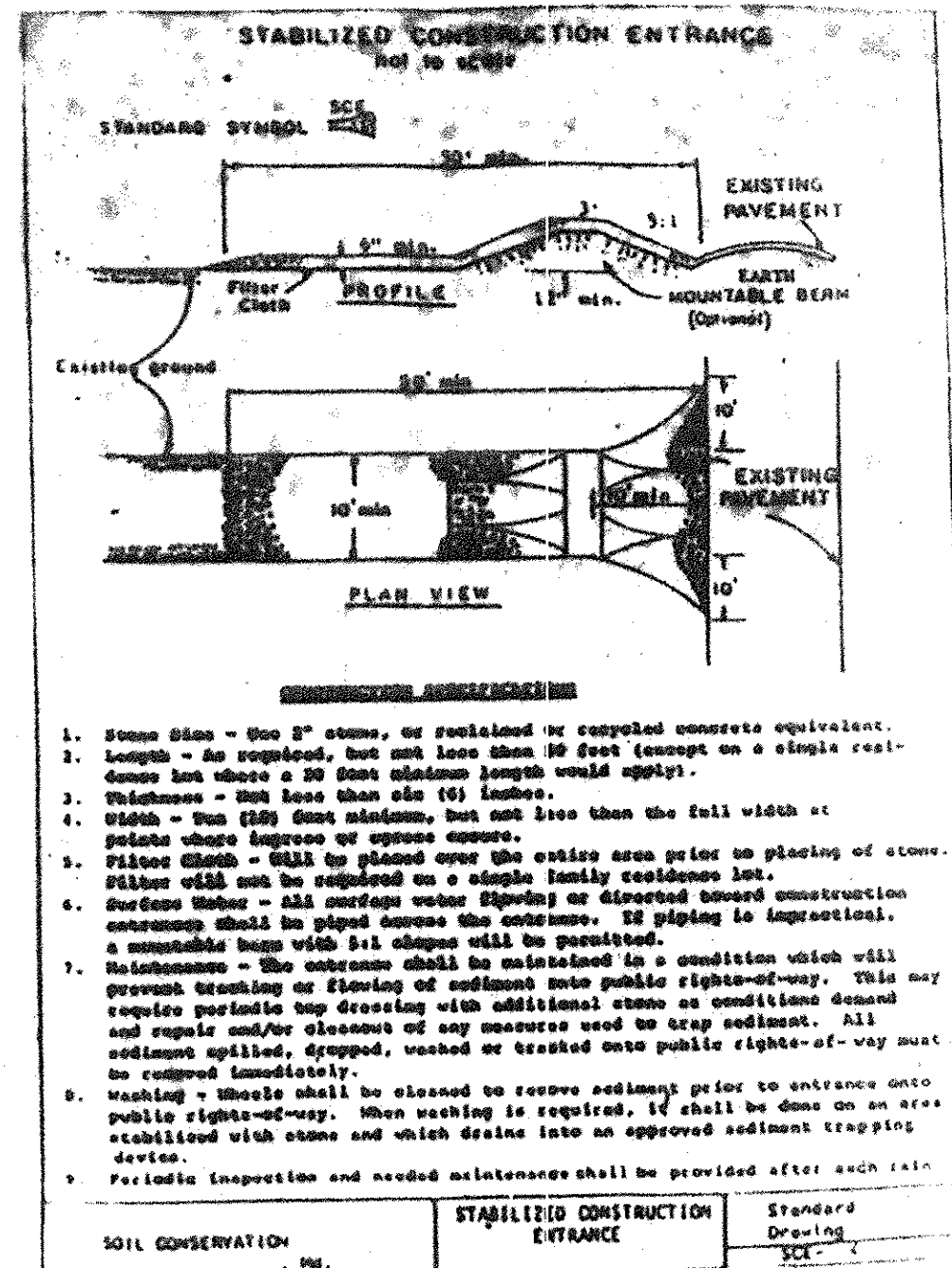
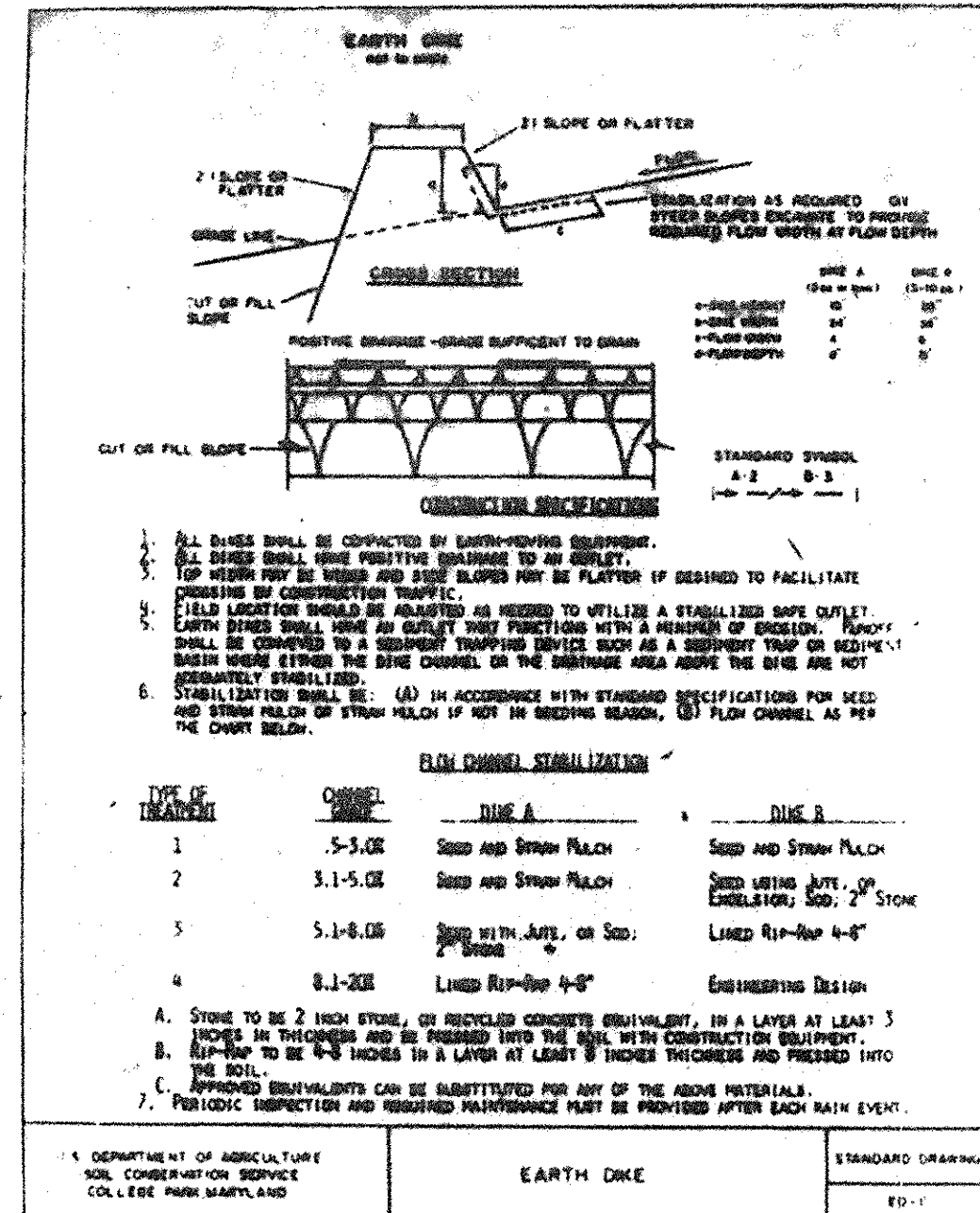
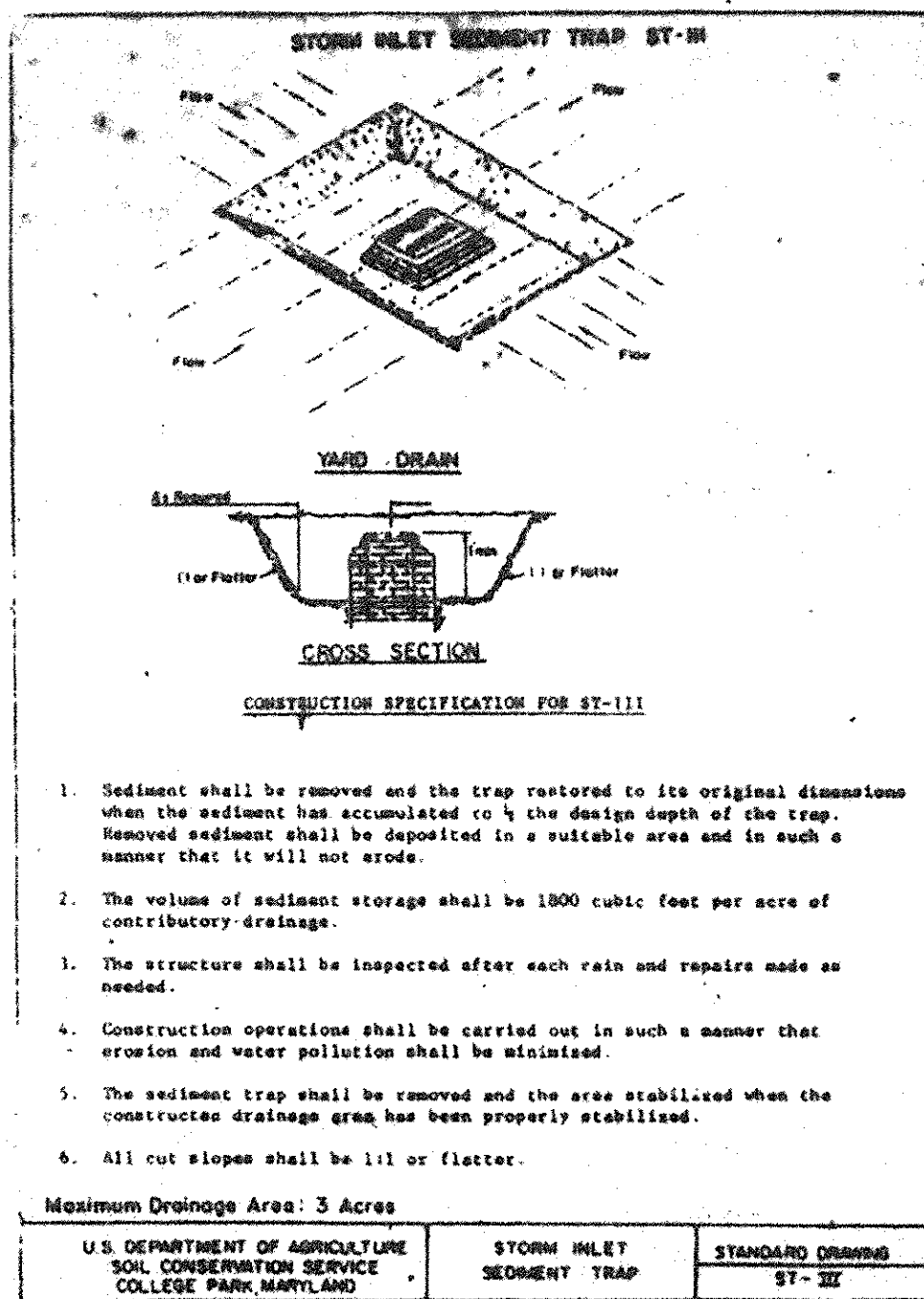
**SOIL EROSION SEDIMENT CONTROL NOTES**

1. Structural measures such as dikes, traps, and etc. will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface on the site.
2. All structural sediment control measures are to remain in place until permission for their removal has been obtained from the Howard County Sediment Control Division. Phone - 992-2436 ext. 228.
3. Notify the Howard County Sediment Control Div. at least 24 hours before starting any work. Phone 992-2436.
4. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the Standards and Specifications for Sediment and Sediment Control in Developing Areas, dated 1979 in later versions.
5. Constructed basins, dikes, etc. will be computed by general passer with the constructing equipment.
6. Grade area adjacent to basins to provide positive drainage into sediment traps.
7. Condition inspection and maintenance will be the responsibility of the Developer.
8. Cost of and the approval of the Howard County Sediment Control Division shall be requested upon completion of installation or permanent erosion and sediment control but before proceeding with any other earth disturbance or grading. Other building or grading inspection approval may not be authorized until this initial approval by Inspection Agency is made.
9. Temporary Seeding
 

Annual Ryegrass	2.2 lbs/1000 sq ft
Creeping Lovegrass	.07 lbs/1000 sq ft
Straw Mulch	2 tons/acre
Asphalt	5 gal/1000 sq ft
Small Grain Straw	2 tons/acre
10. Temporary Seeding
 

Annual Ryegrass	2.2 lbs/1000 sq ft
Creeping Lovegrass	.07 lbs/1000 sq ft
Straw Mulch	2 tons/acre
Asphalt	5 gal/1000 sq ft
Small Grain Straw	2 tons/acre
11. Storm Drains
 

Storm Drain	12" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	18" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	24" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	30" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	36" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	42" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	48" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	54" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	60" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	66" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	72" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	78" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	84" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	90" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	96" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	102" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	108" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	114" dia. concrete pipe with 1/2" dia. manhole
Storm Drain	120" dia. concrete pipe with 1/2" dia. manhole
12. Wooded Areas around sediment traps shall be selectively cleared as directed by a representative of Howard County. This clearing shall be performed to provide a smoother woods line. Areas cleared for the construction of sediment traps.



DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit

PROFESSIONAL CERTIFICATION: [Signature]

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 45474 Expiration Date: 6/12/2016

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT

NO SANITARY FACILITIES PROVIDED COUNTY HEALTH OFFICER DATE

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING

PLANNING DIRECTOR DATE 7-23-85

CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION DATE 7-23-85

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

DIRECTOR DATE 7-23-85

CHIEF BUREAU OF ENGINEERING DATE

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

DATE 7-23-85

U.S. SOIL CONSERVATION SERVICE

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

DATE 7-23-85

HOWARD S.C.D.

DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND

DATE 7-23-85

DIRECTOR

**SOIL EROSION SEDIMENT CONTROL PLAN**

AREA "H"

**ROCKBURN BRANCH PARK**

TAX MAP - 31 LIBER 735 FOLIO 505 PARCEL - 235

CAPITAL PROJECT N<sup>o</sup> - N-3049 AA

1<sup>ST</sup> ELECTION DISTRICT

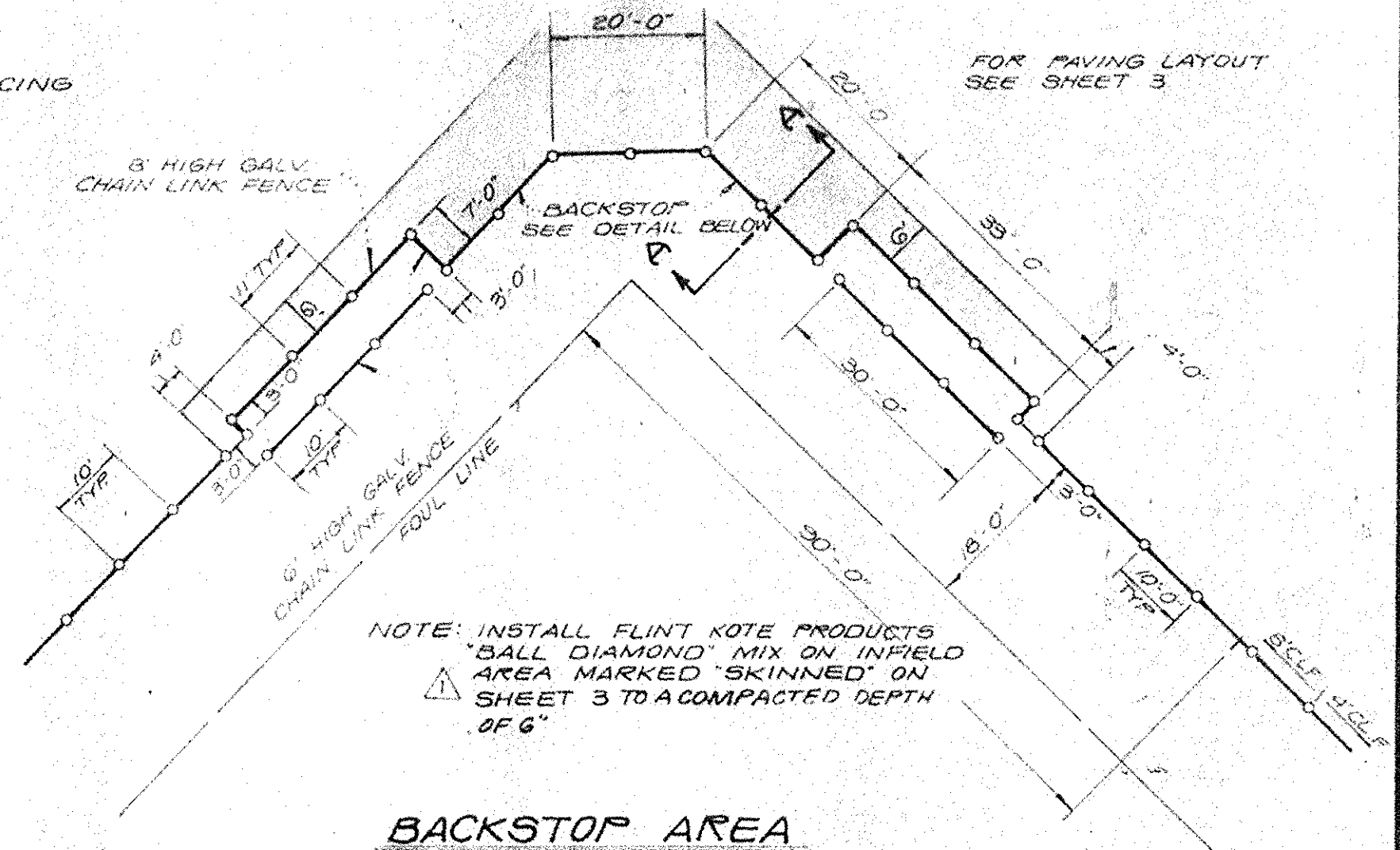
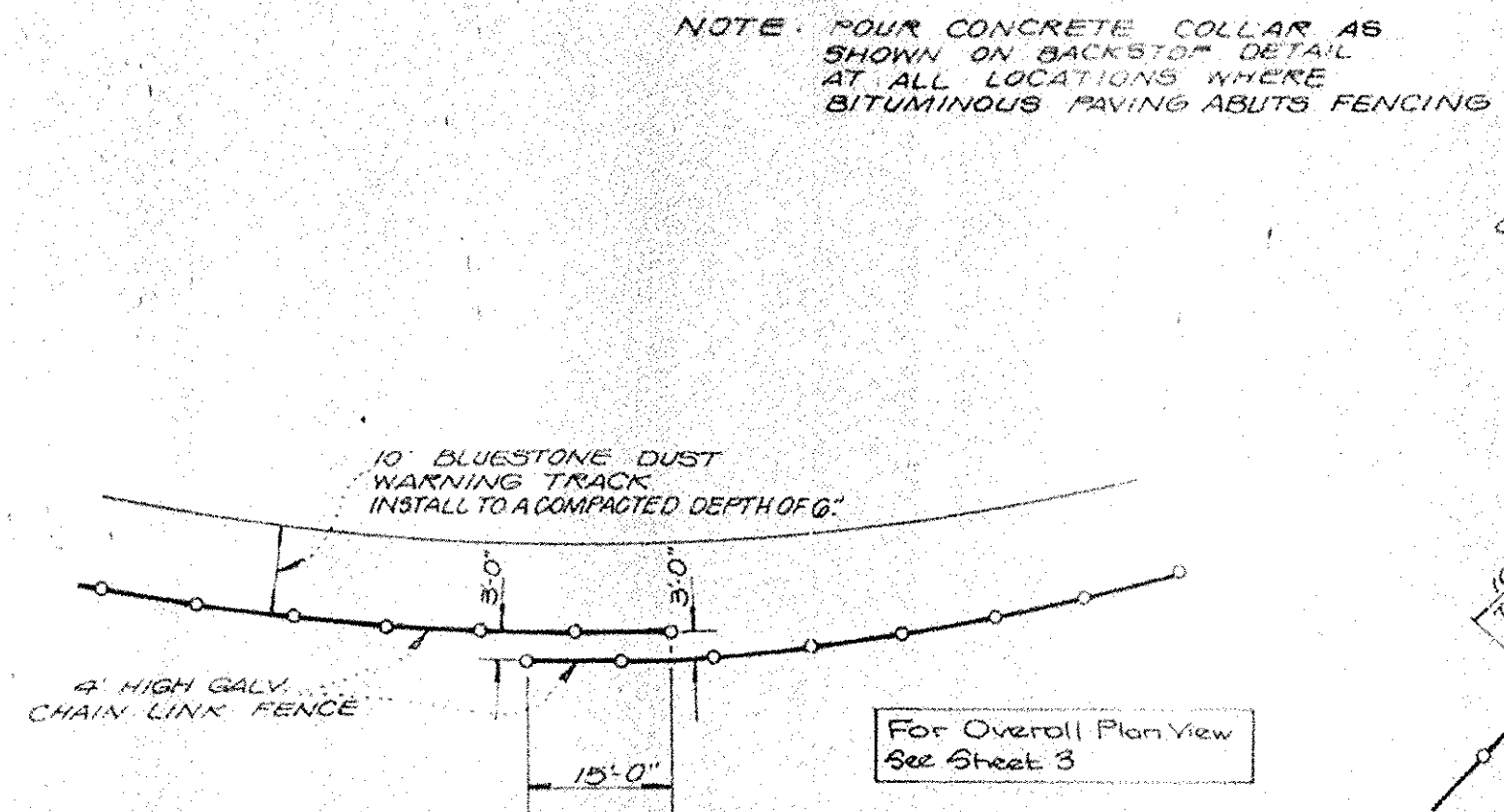
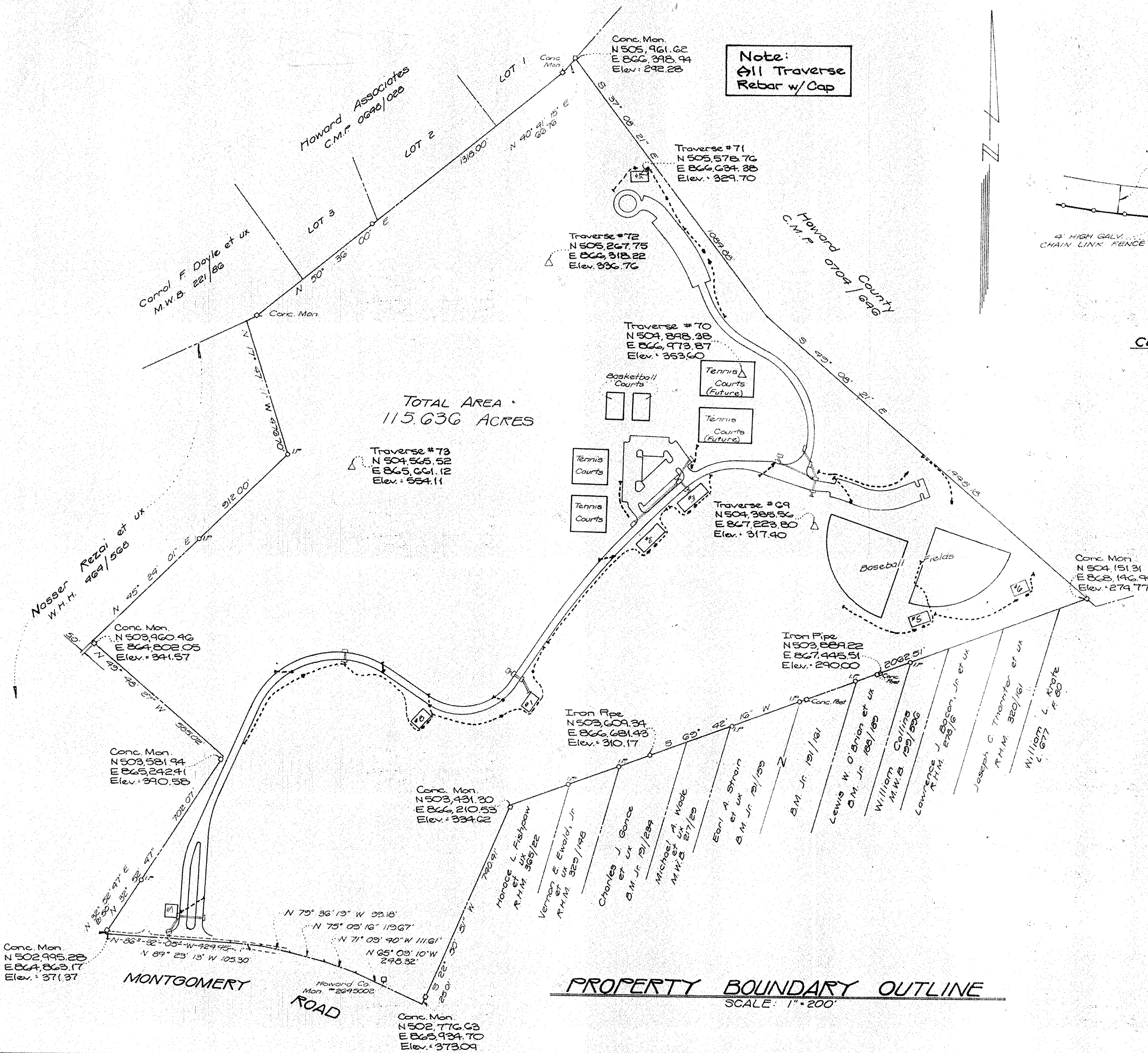
HOWARD COUNTY, MARYLAND

Designed M.D.P.	Drawn M.D.P.
Date April 1985	Scale
Job No 82-103	Sheet 10 of 18

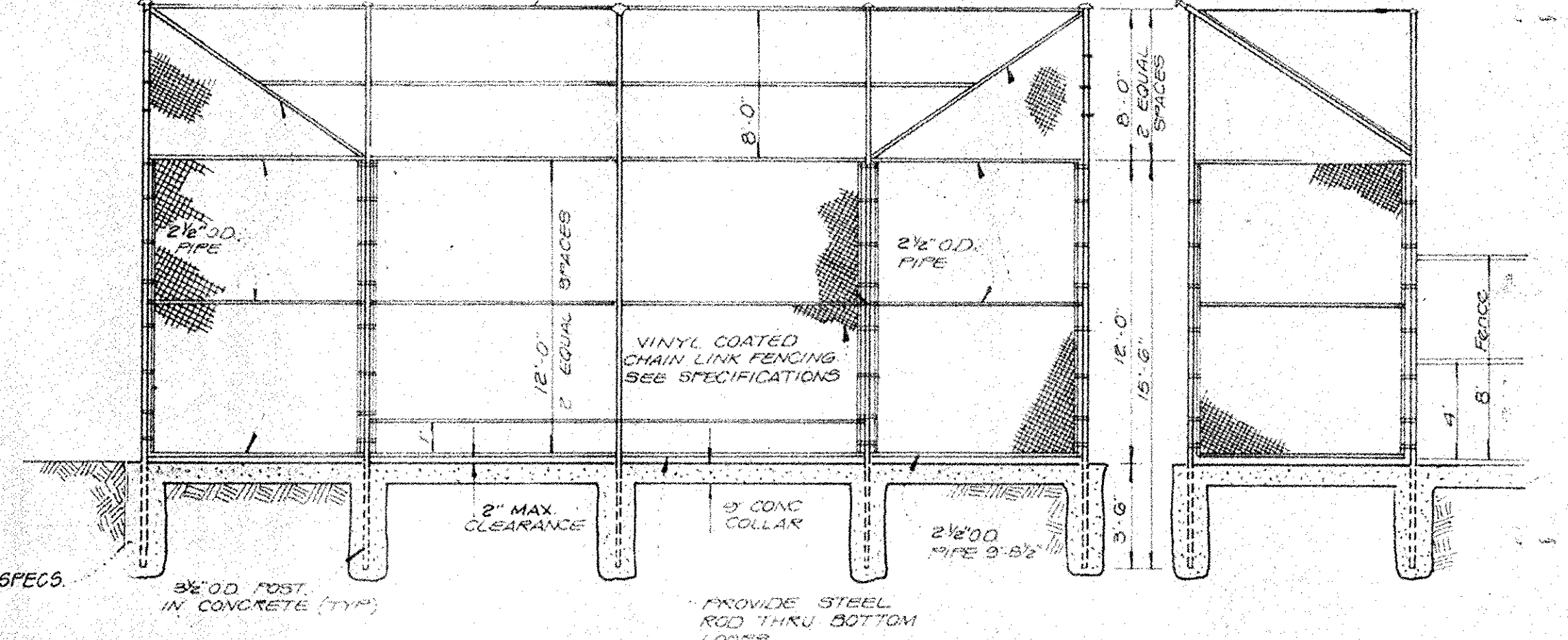
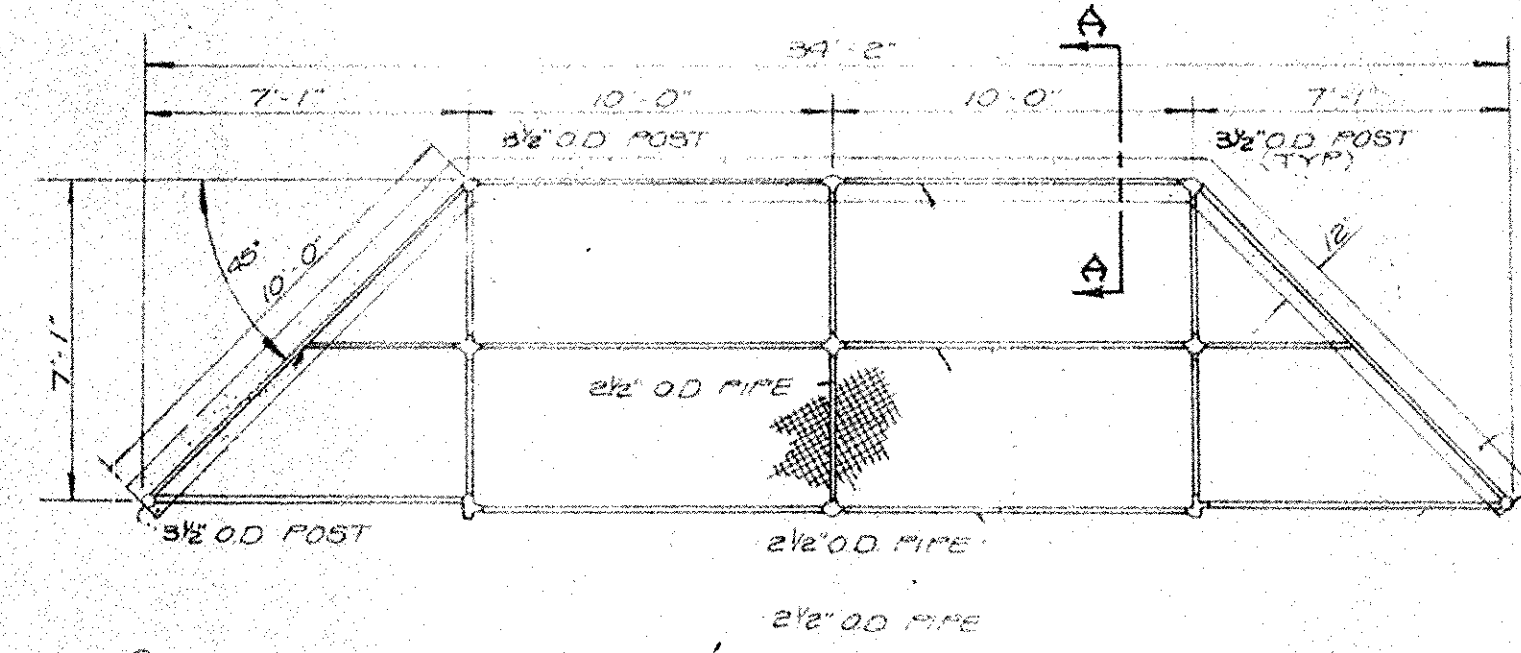
Macris, Hendricks and Witmer P.A. Engineers-Surveyors

Suite 208 15209 Frederick Road Rockville, MD 20850 (301) 774-0664 (301) 340-8705

SDP-85-232



**TYPICAL FENCING LAYOUT**  
 SCALE: 1" = 20'-0"



APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
 NO SANITARY FACILITIES PROVIDED  
 COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING.  
 PLANNING DIRECTOR \_\_\_\_\_ DATE 7-23-85  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION \_\_\_\_\_ DATE 7-23-85

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE 6-27-85

APPROVED  
 DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE 7-3-85

DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 DATE \_\_\_\_\_

**REVISIONS**  
 Δ 7-22-85 - Revised note on Backstop Area Detail

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit

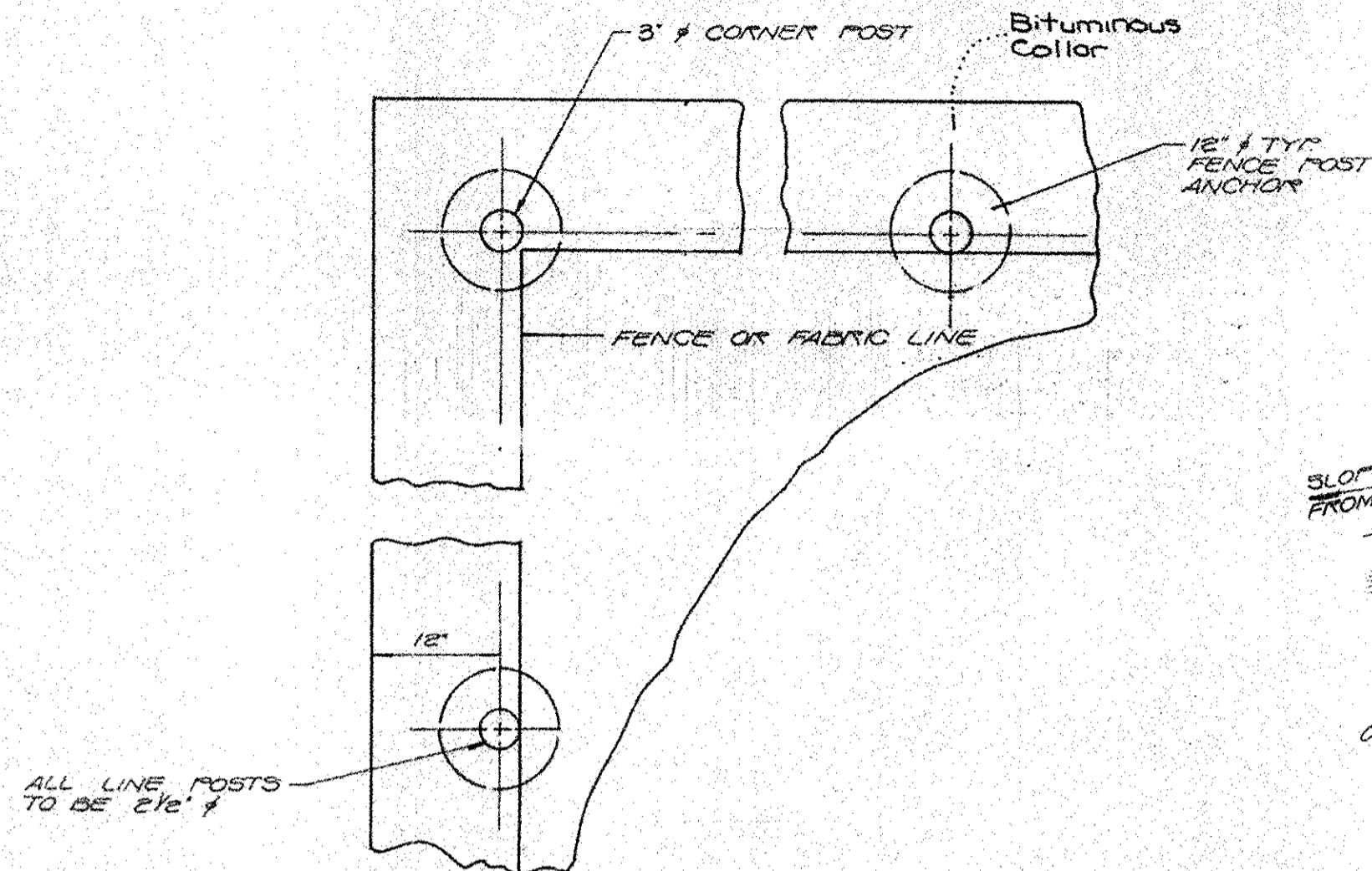
PROFESSIONAL CERTIFICATION:  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
 License No. 45474  
 Expiration Date: 6/12/2016

**BOUNDARY AND FENCE DETAILS**  
**AREA "H"**  
**ROCKBURN BRANCH PARK**  
 TAX MAP - 31 LIBER 735 FOLIO 505 PARCEL - 235  
 CAPITAL PROJECT N<sup>o</sup> - N-3049.4A  
 1<sup>ST</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

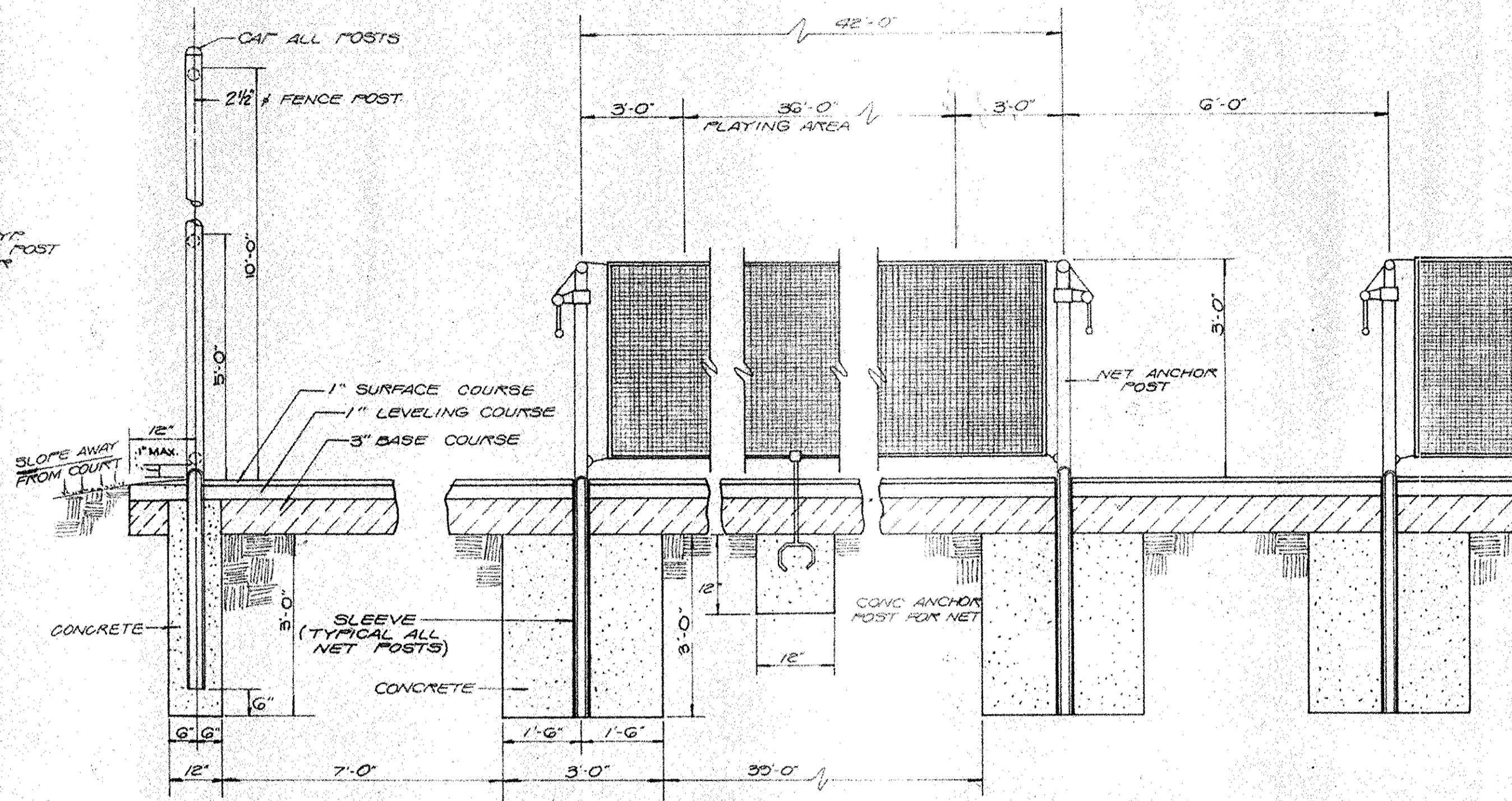
**Macris, Hendricks and Witmer P.A.**  
 Engineers - Surveyors  
 Suite 206  
 15209 Frederick Road  
 Rockville, MD. 20850  
 (301) 340-8705

Designed J.C.G.	Drawn B. Betty
Date April 1985	Scale As Noted
Job No. 68-103	Sheet 11 of 12

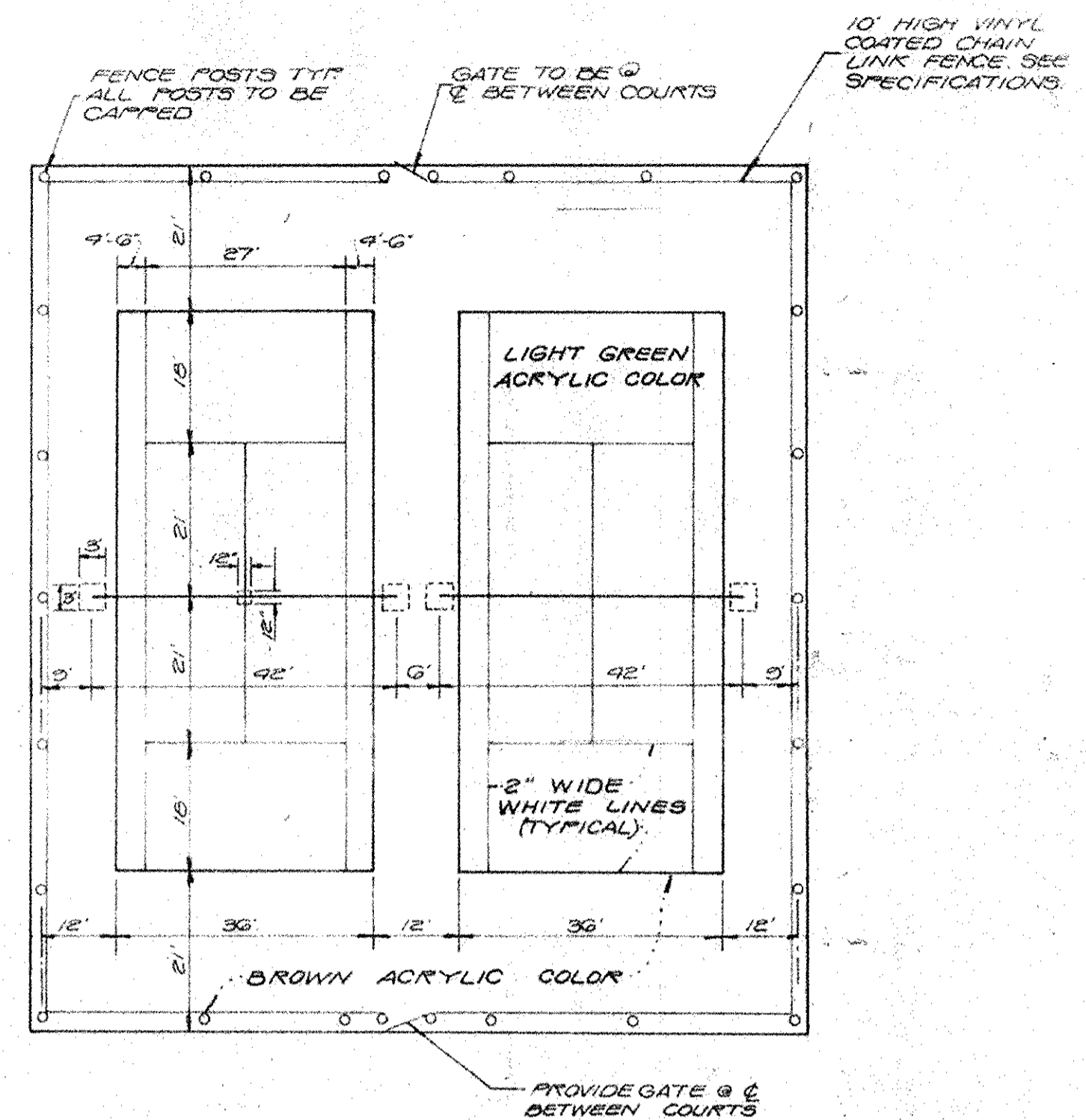
SDP-85-237



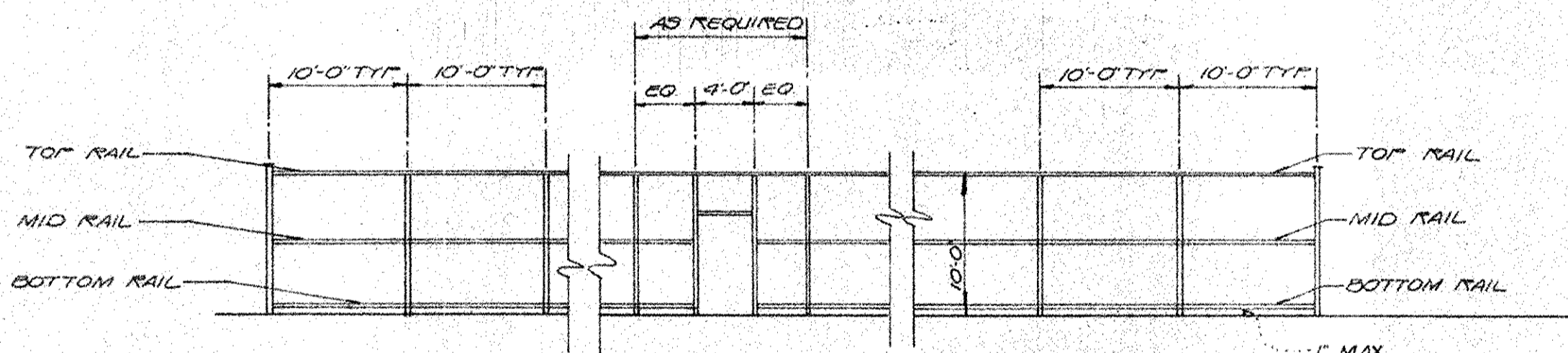
FENCE CORNER DETAIL  
NO SCALE



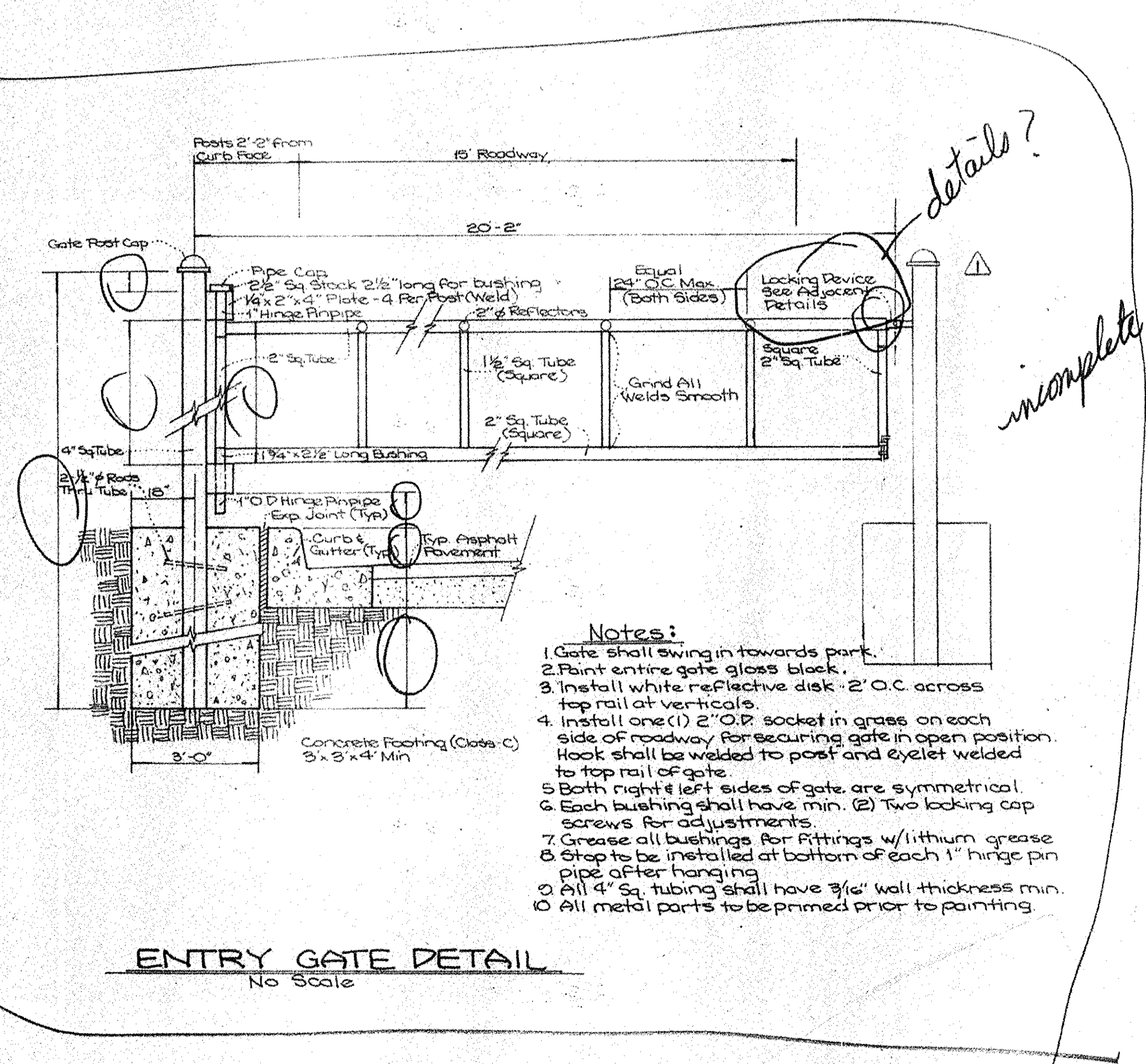
TYPICAL COURT SECTION @ TENNIS NET LINE  
NO SCALE



COURT DIMENSIONS  
1\"/>



FENCE ELEVATION  
NO SCALE



- Notes:
1. Gate shall swing in towards park.
  2. Paint entire gate glass black.
  3. Install white reflective disk - 2' O.C. across top rail at verticals.
  4. Install one (1) 2" O.P. socket in grass on each side of roadway for securing gate in open position. Hook shall be welded to post and eyelet welded to top rail of gate.
  5. Both right & left sides of gate are symmetrical.
  6. Each bushing shall have min. (2) Two locking cap screws for adjustments.
  7. Grease all bushings for fittings w/lithium grease & stop to be installed at bottom of each 1" hinge pin pipe after hanging.
  8. All 4" sq. tubing shall have 3/16" wall thickness min.
  9. All metal parts to be primed prior to painting.

ENTRY GATE DETAIL  
No Scale

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
NO SANITARY FACILITIES PROVIDED  
COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
PLANNING DIRECTOR *[Signature]* DATE 7-23-85  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION *[Signature]* DATE 7-23-85

APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
DIRECTOR *[Signature]* DATE 6-27-85  
CHIEF BUREAU OF ENGINEERING *[Signature]* DATE 6-27-85

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND  
DATE 7-3-85  
*[Signature]*

DEPARTMENT OF RECREATION & PARKS HOWARD COUNTY, MARYLAND  
7-23-85 *[Signature]* DATE  
DIRECTOR *[Signature]*

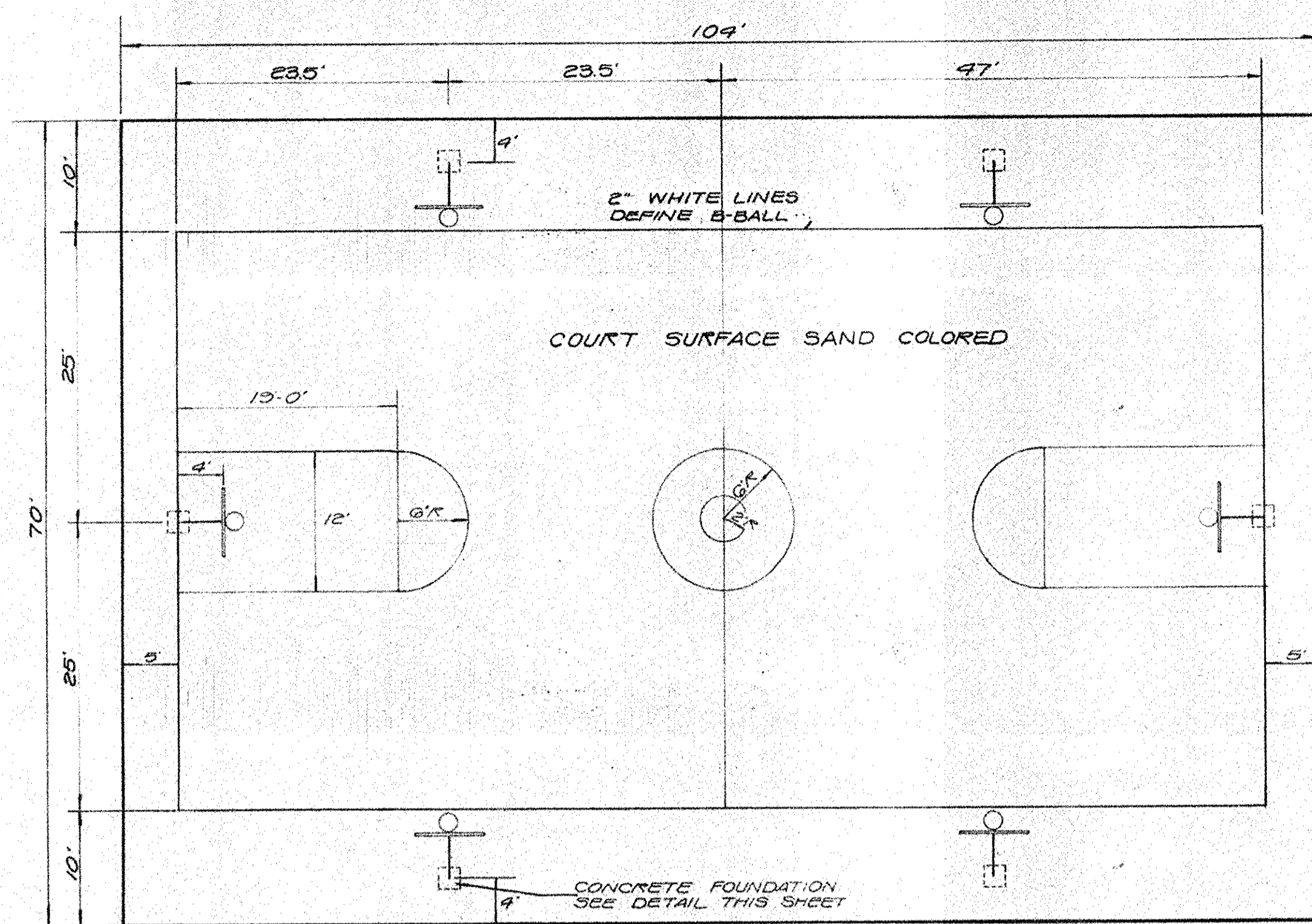
TENNIS COURT DETAILS  
**ROCKBURN BRANCH PARK**  
TAX MAP - 31 LIBER 735 FOLIO 505 PARCEL - 235  
CAPITAL PROJECT N<sup>o</sup>-N-3049 AA  
1<sup>ST</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**Macris, Hendricks and Witmer P.A.**  
Engineers - Surveyors  
Suite 206  
15209 Frederick Road  
Rockville, MD. 20850  
(301) 774-0664 (301) 340-8705

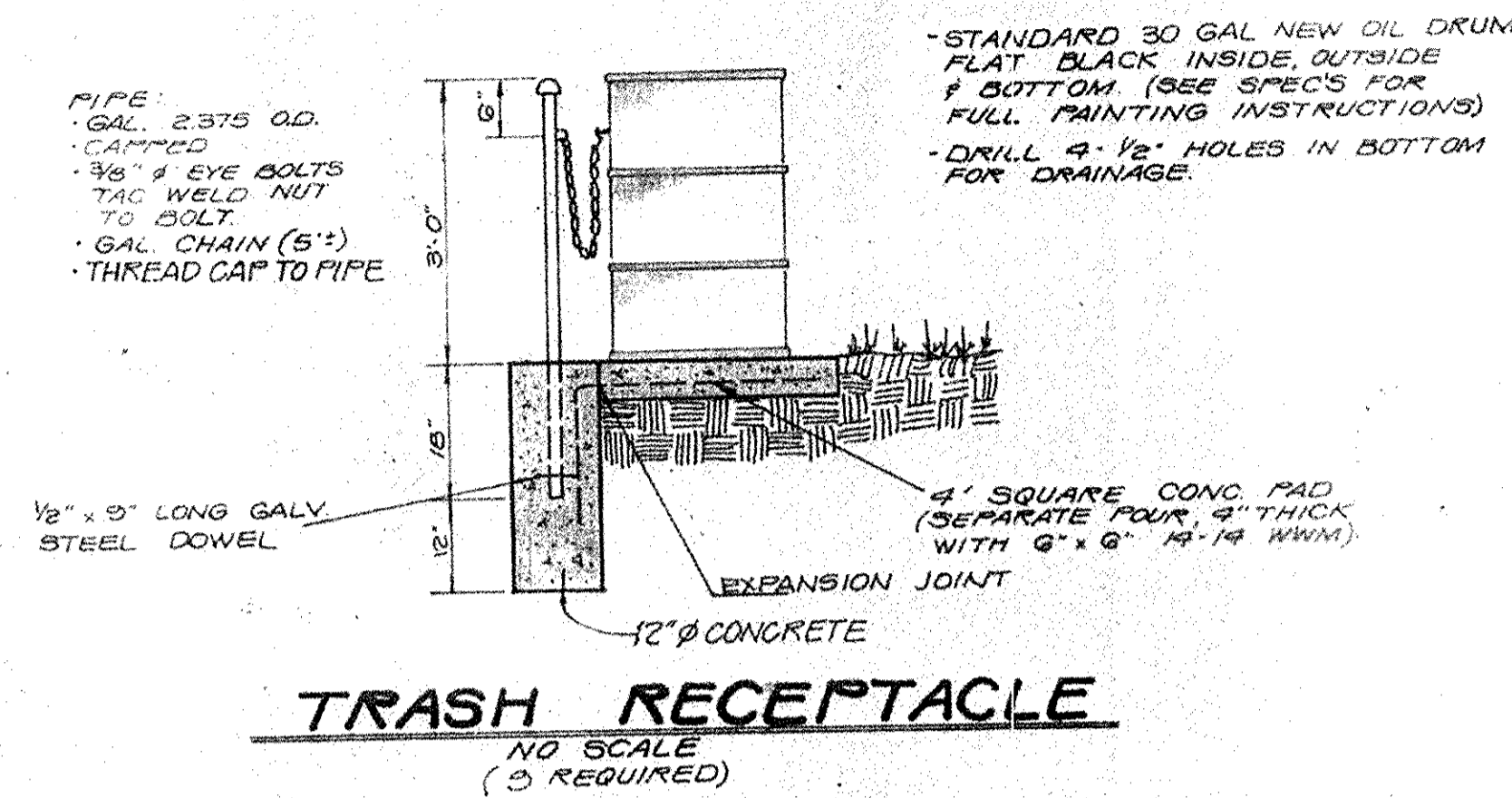
Designed J.C.G.	Drawn Betty
Date April 1985	Scale As Noted
Job No 82-103	Sheet 12 of 28

DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit  
PROFESSIONAL CERTIFICATION: *[Signature]* 4/15/15  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 45474  
Expiration Date: 6/12/2016

7-22-85

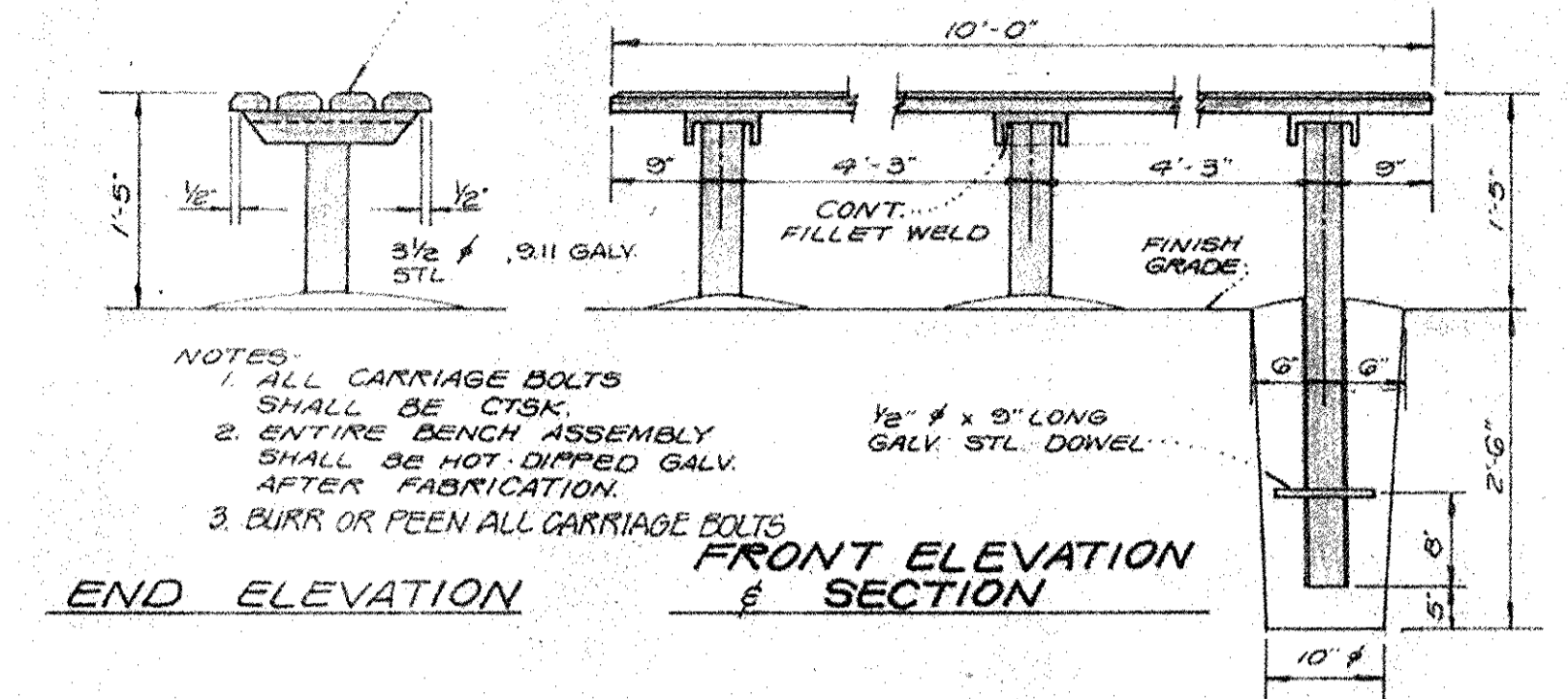


**6 HOOP BASKETBALL COURT**  
SCALE 1"=10'-0"

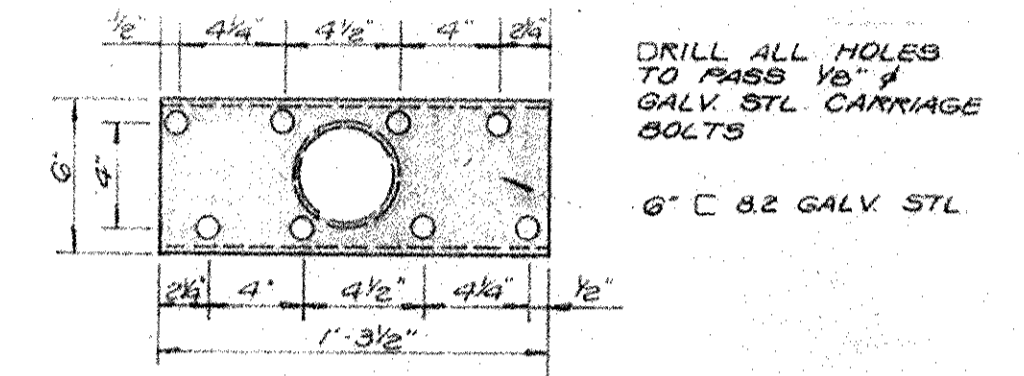


**TRASH RECEPTACLE**  
NO SCALE  
(3 REQUIRED)

4" CONT. 2"x4" SLATS CLEAR HEART OAK W 1/2" BEVEL ON 2 CORNERS; ENDS, FASTEN W/ 2 1/2" x 1/2" STL CARRIAGE BOLTS @ EACH E.



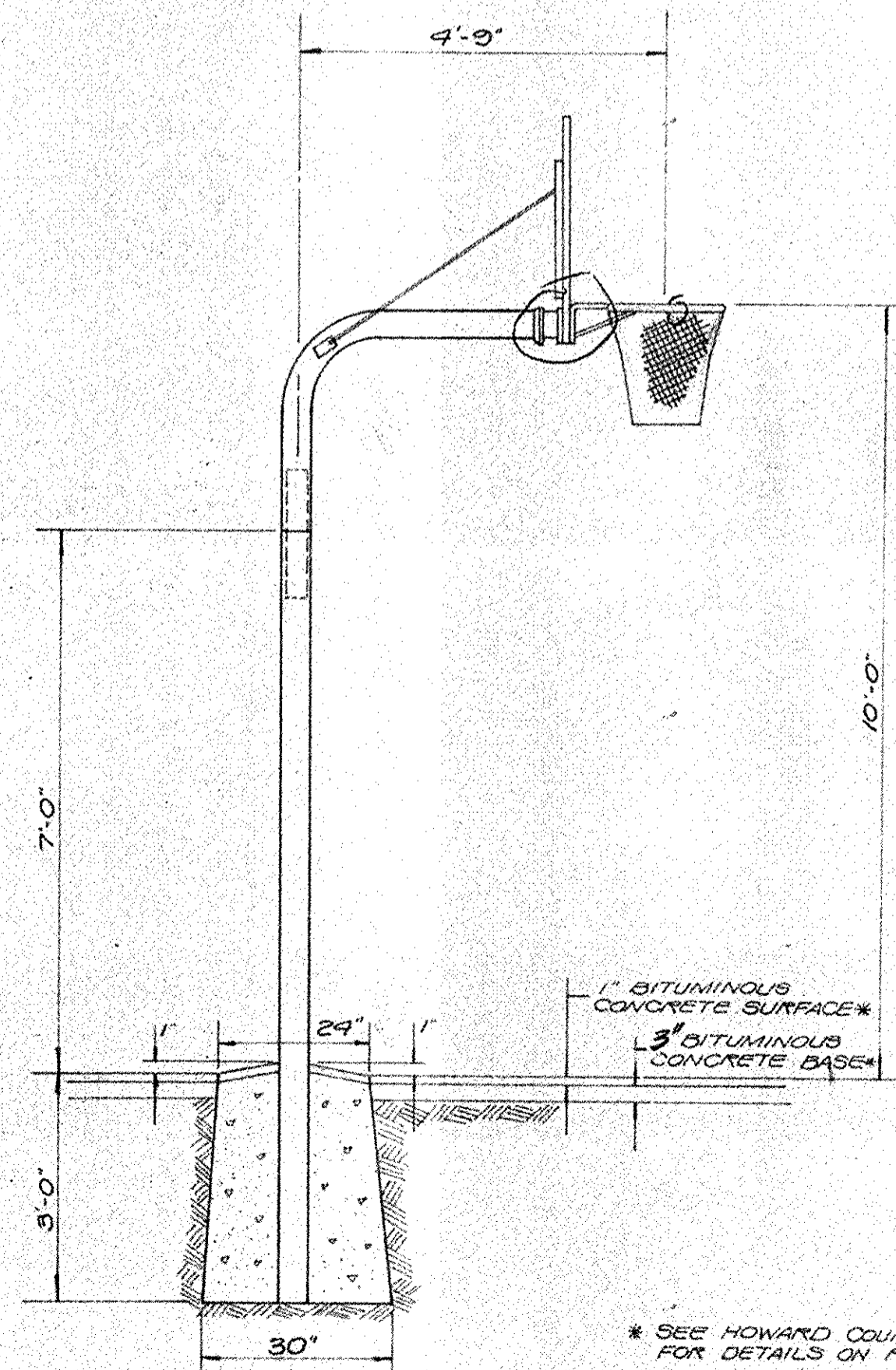
**WOODEN PLAYER'S BENCH**  
NO SCALE  
(12 REQUIRED)



**WOODEN PLAYER'S BENCH**  
NO SCALE  
(12 REQUIRED)

APPROVED  
DIVISION OF LAND DEVELOPMENT &  
ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE 7-3-85

DEPARTMENT OF RECREATION & PARKS  
HOWARD COUNTY, MARYLAND  
DATE 7-23-85 DIRECTOR  
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT.  
NO SANITARY FACILITIES PROVIDED  
COUNTY HEALTH OFFICER DATE  
APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
DATE 7-23-85  
PLANNING DIRECTOR  
DATE 7-23-85  
CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION  
DATE  
APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
DATE 6-22-85  
DIRECTOR  
DATE 6-22-85  
CHIEF BUREAU OF ENGINEERING  
DATE



**BASKETBALL BACKSTOP AND GOAL (12 REQ'D)**  
NO SCALE

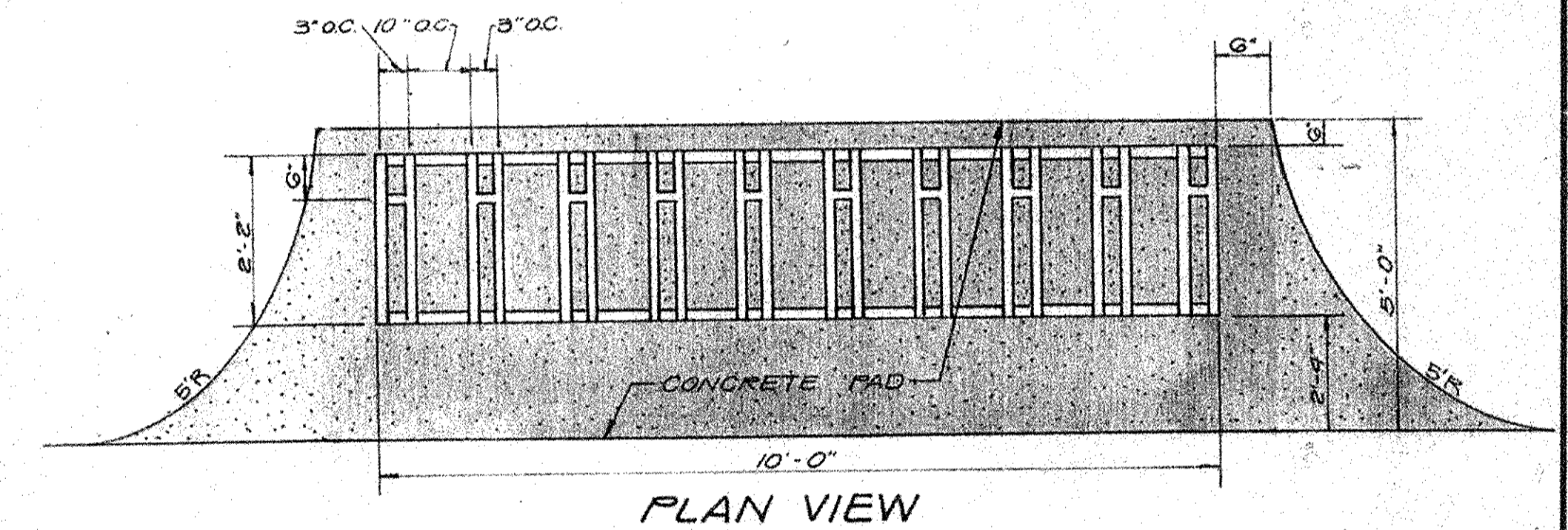
BASKETBALL BACKSTOP ASSEMBLY TO BE AS FOLLOWS OR AN APPROVED EQUAL  
MODEL 10202-1476-15 INDUSTRIES

\* SEE HOWARD COUNTY STD. DWG. D-13, PG. 68 FOR DETAILS ON PAVING MATERIALS

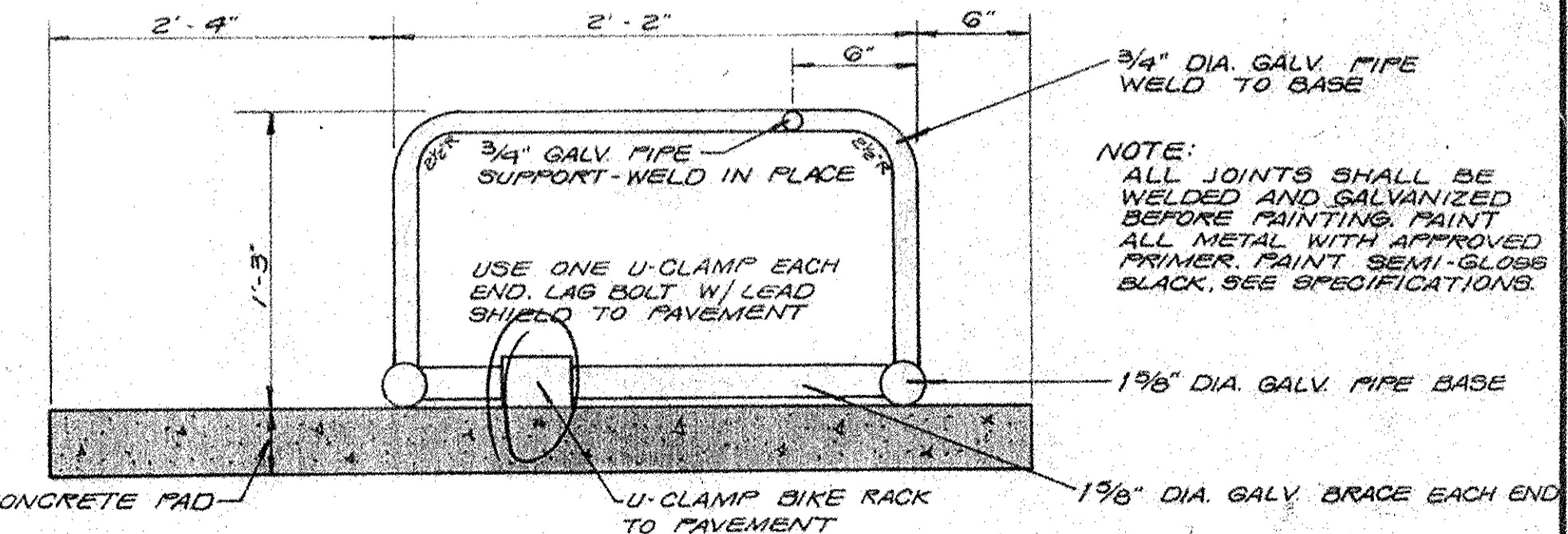
DATE: 4/15/15  
REVISION: Append 18 sheets (15-32) for ESD Retrofit

PROFESSIONAL CERTIFICATION: 4/16/15

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
License No. 45474  
Expiration Date: 6/12/2016



**BIKE RACK**  
NO SCALE  
(2 REQUIRED)



**BIKE RACK**  
NO SCALE  
(2 REQUIRED)

**BASKETBALL COURT DETAILS**  
**ROCKBURN BRANCH PARK**  
TAX MAP-31 LIBER 735 FOLIO 505 PARCEL-235  
CAPITAL PROJECT N<sup>2</sup>-N-3049 AA  
1<sup>ST</sup> ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

Designed J.C.G.	Drawn Betty
Date April 1985	Scale As Noted
Job No. 62-103	Sheet 13 of 14

Macris, Hendricks and Witmer P.A.  
Engineers-Surveyors  
Suite 206  
15209 Frederick Road  
Rockville, MD, 20850  
(301) 340-8705

Columbia Area:  
(301) 774-0664

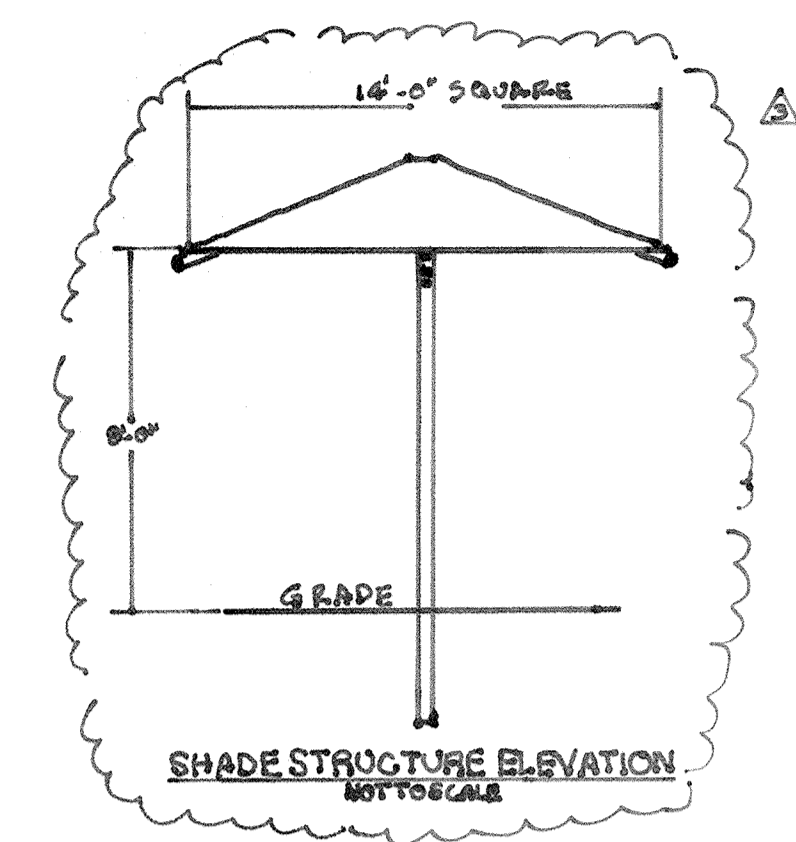
SDP-85-232

STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 License No. 45474  
 Expiration Date: 6/12/2016  
 5/20/19

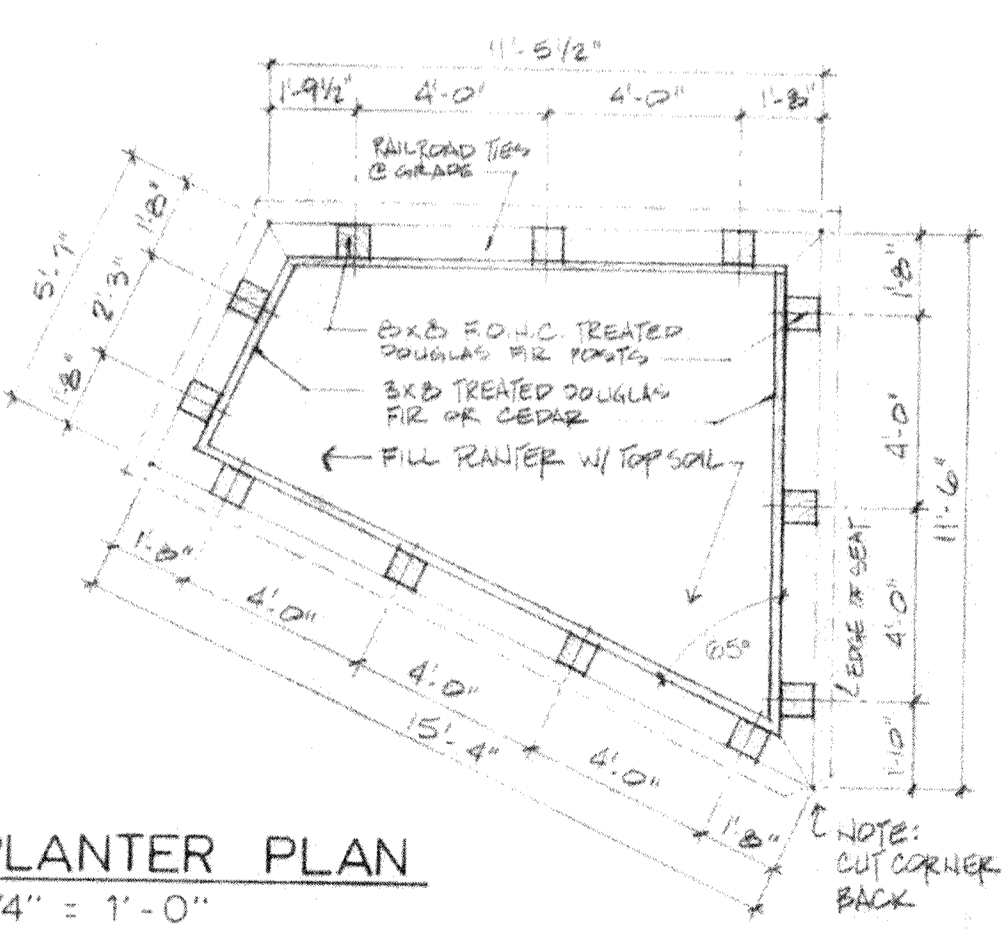
DATE: 4/15/15 REVISION: Append 18 sheets (15-32) for ESD Retrofit  
 PROFESSIONAL CERTIFICATION: 4/15/15  
 I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.  
 License No. 45474  
 Expiration Date: 6/12/2016

DATE: 3/18/18 REVISION: ADD SHADE STRUCTURE  
 THE LIMIT OF DISTURBANCE OF 256 SFT IS EXEMPT FROM PROVIDING STORM WATER MANAGEMENT. ANY FUTURE DISTURBANCE THAT EXCEEDS 5,000 SFT SHALL MEET CURRENT STORM WATER MANAGEMENT REQUIREMENTS FOR THE CUMULATIVE DISTURBANCE OVER 5,000 SFT.

tot-lot equipment					
MARK	MANUFACTURER	MODEL NO	QTY	NAME	REMARKS
△	TIMBERFORM	1602	1	PLAY AREA	W/ 2 1/2" THICK TIMBER PLANK PLATFORMS
△	TIMBERFORM	1600	2	SPRING PAD	
△	TIMBERFORM	1680	1	SEE - SAW	
△	TIMBERFORM	1588-B	1	BANK STRUCTURE	W/ 1600 SEATS
△	TIMBERFORM	1594	1	SEATING COLLECTOR	
△	3-DOME TIME	89 3888 18 181	3	SADDLE MATS	



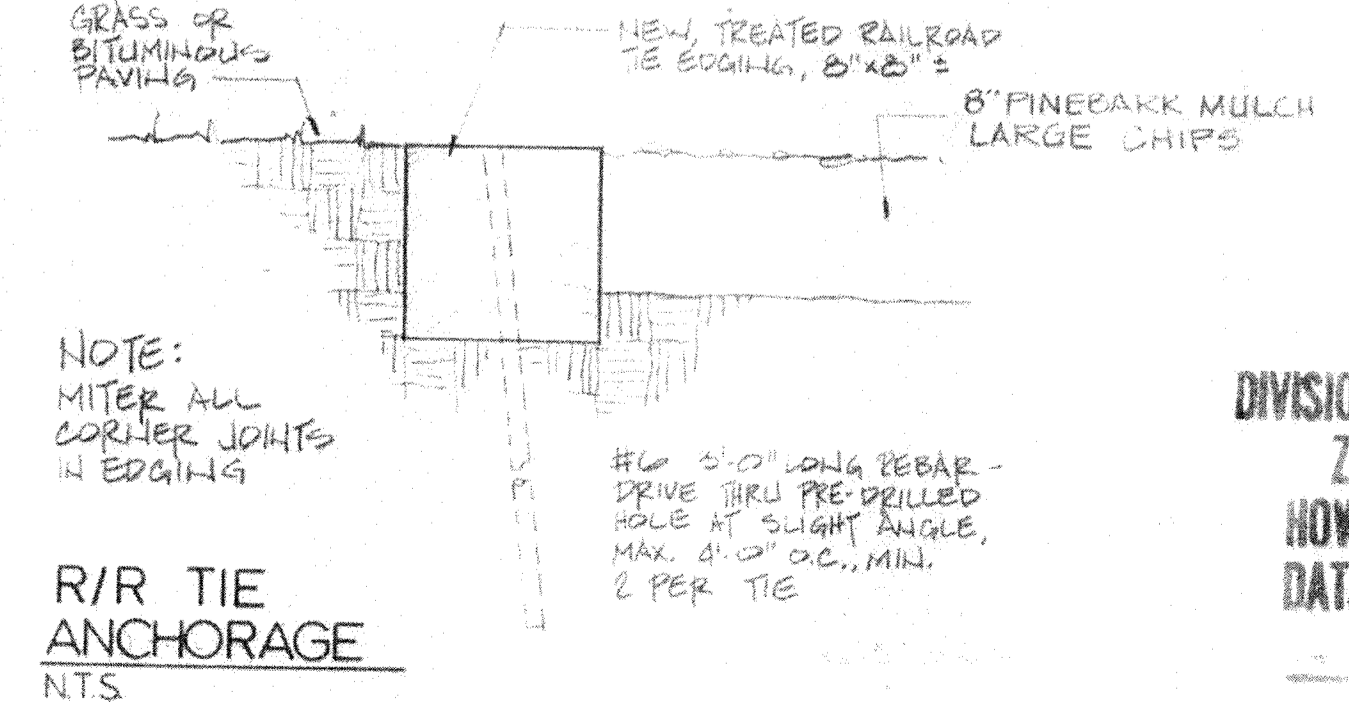
TOT-LOT PLAN  
 1" = 10'-0"



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS HOWARD COUNTY HEALTH DEPARTMENT  
 NO SANITARY FACILITIES  
 COUNTY HEALTH OFFICER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED HOWARD COUNTY OFFICE OF PLANNING AND ZONING  
 PLANNING DIRECTOR \_\_\_\_\_ DATE 7-23-85  
 CHIEF DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION \_\_\_\_\_ DATE 7-23-85

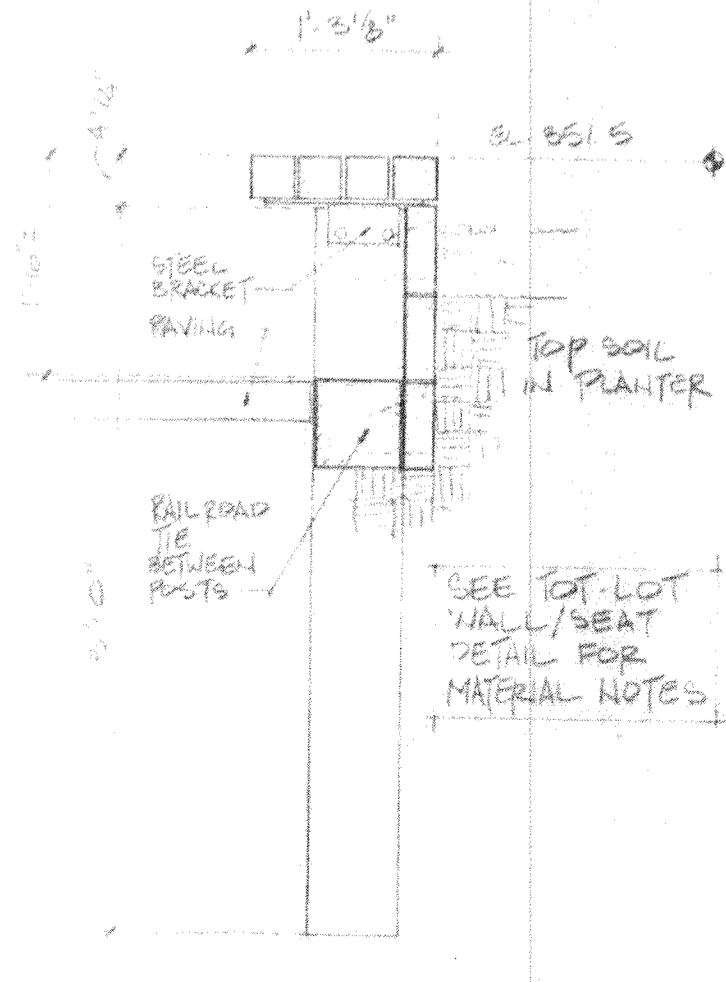
APPROVED FOR STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 DIRECTOR \_\_\_\_\_ DATE 6-23-85  
 CHIEF BUREAU OF ENGINEERING \_\_\_\_\_ DATE 6-23-85



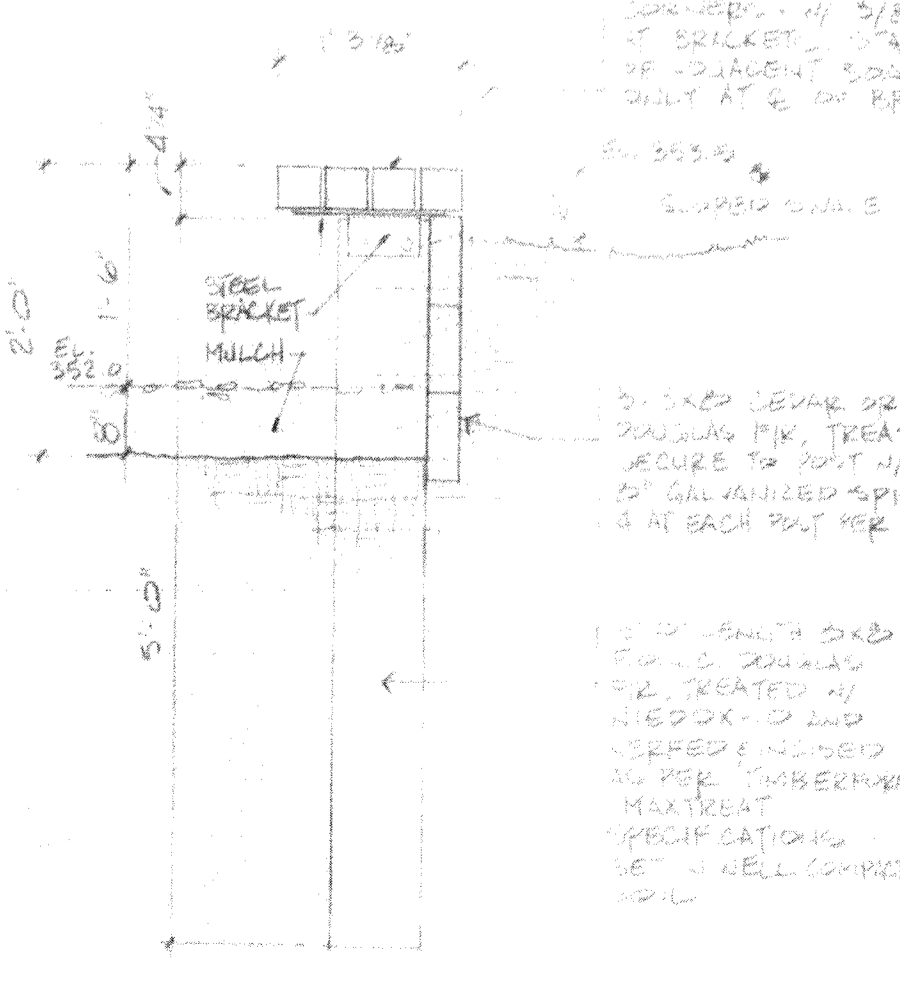
DEPARTMENT OF RECREATION & PARKS  
 HOWARD COUNTY, MARYLAND  
 DATE 7-23-85 DIRECTOR \_\_\_\_\_

APPROVED DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION HOWARD COUNTY, MARYLAND  
 DATE 7-3-85

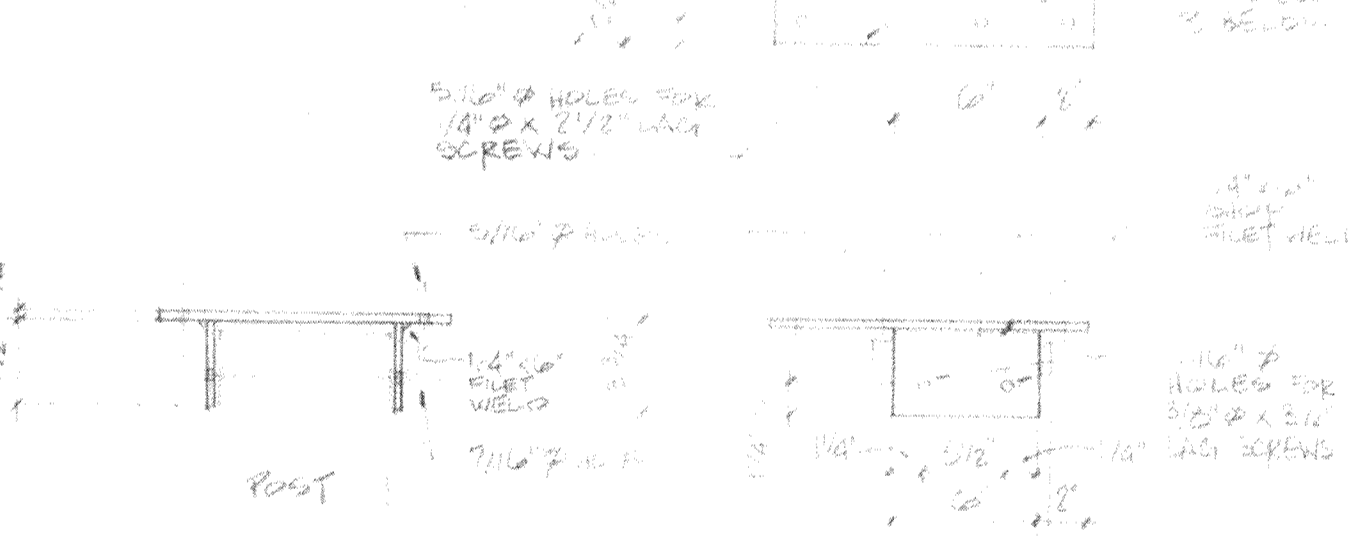
PLANTER WALL/SEAT  
 3/4" = 1'-0"



TOT-LOT WALL/SEAT  
 3/4" = 1'-0"

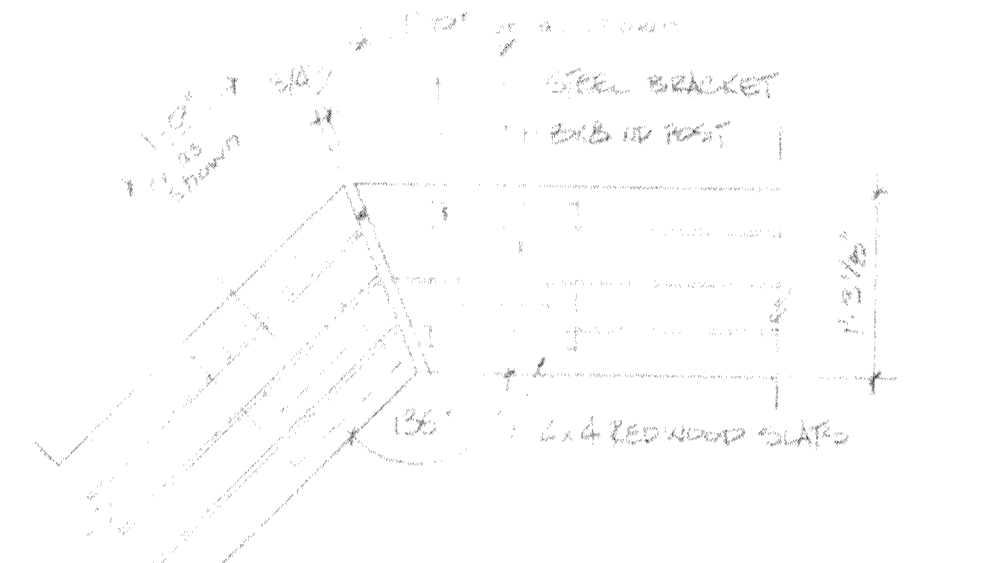


Top

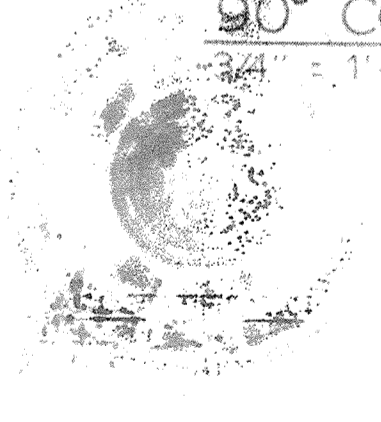


Front Side  
 STEEL SEAT BRACKET one each post  
 1 1/2" = 1'-0"

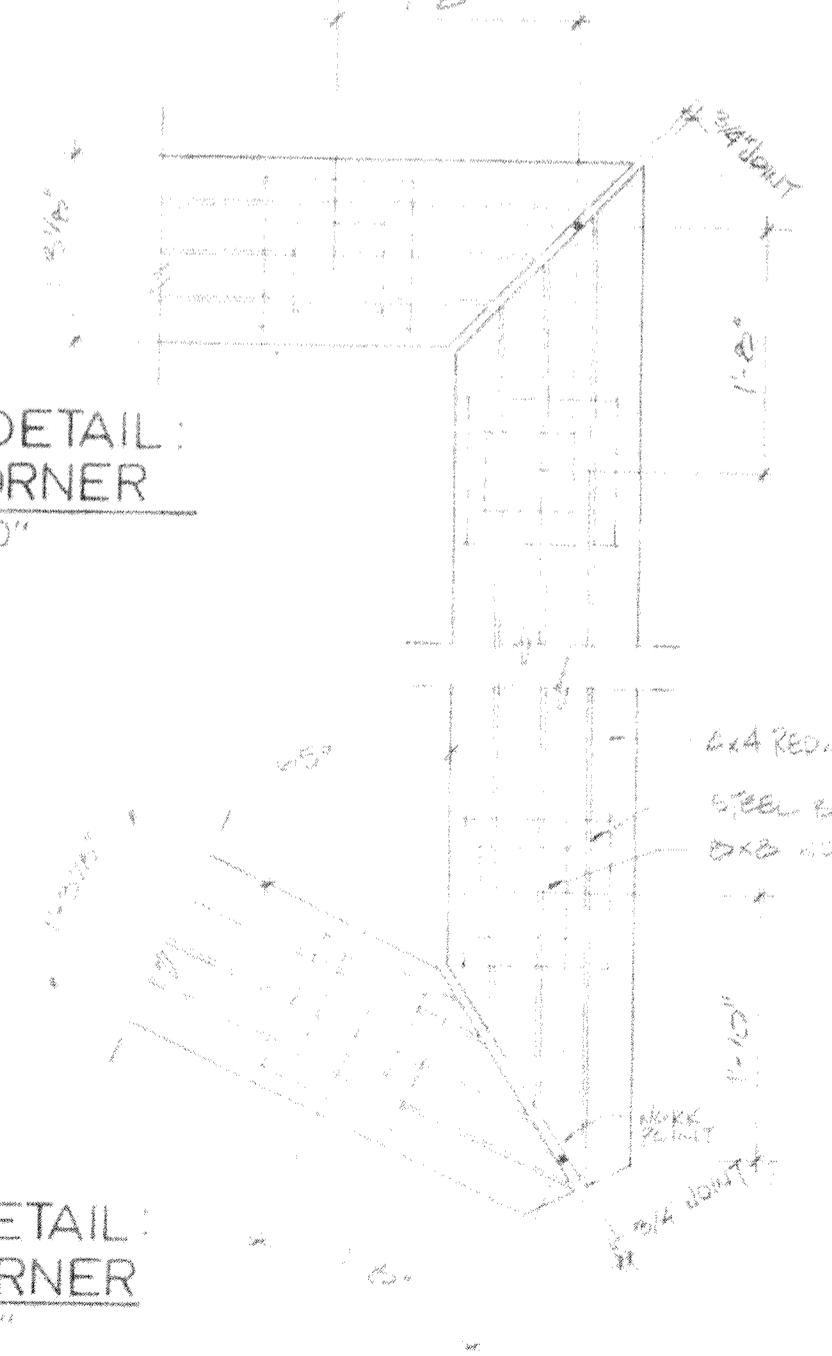
SEAT PLAN DETAIL:  
 135° CORNER  
 3/4" = 1'-0"



SEAT PLAN DETAIL:  
 90° CORNER  
 3/4" = 1'-0"



SEAT PLAN DETAIL:  
 65° CORNER  
 3/4" = 1'-0"



TOT LOT DETAILS  
**ROCKBURN BRANCH PARK**  
 TAX MAP-31 LIBER 735 FOLIO 505 PARCEL -235  
 CAPITAL PROJECT N<sup>o</sup>-N-3049 AA  
 1<sup>ST</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

Macris, Hendricks and Witmer P.A. Engineers-Surveyors		Designed	Drawn
Date	Scale	Date	Scale
April 1985	AS NOTED	6/23/85	AS NOTED
Job No	Sheet	52-103	22 of 31
(Columbia Area) 13011 774-0664	Suite 206 15209 Frederick Road Rockville, MD 20850 (301) 340-8706		