

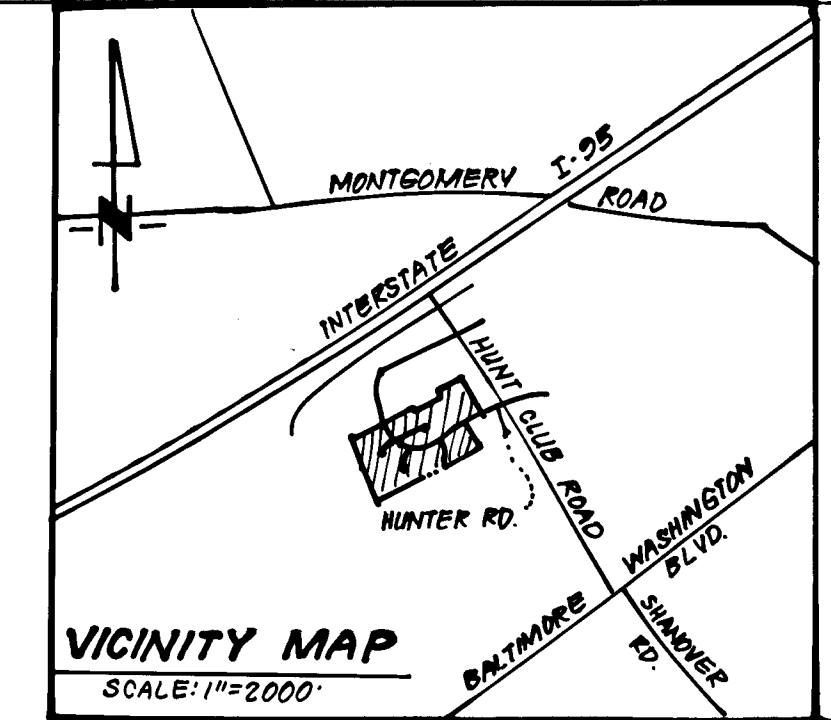
STREET TREE TABLE				
SYM	TYPE	SIZE	QUANT	REMARKS
(A)	QUERCUS SPINIFOLIA	2 1/2 CAL.	08	8' 8" High Heads
(B)	WILLOW OAK	"	08	"
(C)	ZELKOVA SERRATA	"	08	"
(D)	VILLAGE GREEN ZELKOVA	"	06	"

- STREET TREE NOTES:**
- Contractor shall verify location of underground utilities prior to digging.
  - Final location of trees may be adjusted slightly to accommodate field conditions.
  - Planting procedure shall comply with "Landscape Specs. for Baltimore-Washington Metropolitan Areas."
  - Substitution of the approved species may be permitted provided that the planting is in accordance with the street tree and landscape requirements as specified in Section 16.131 of the Ho. Co. Subdivision Regulations.

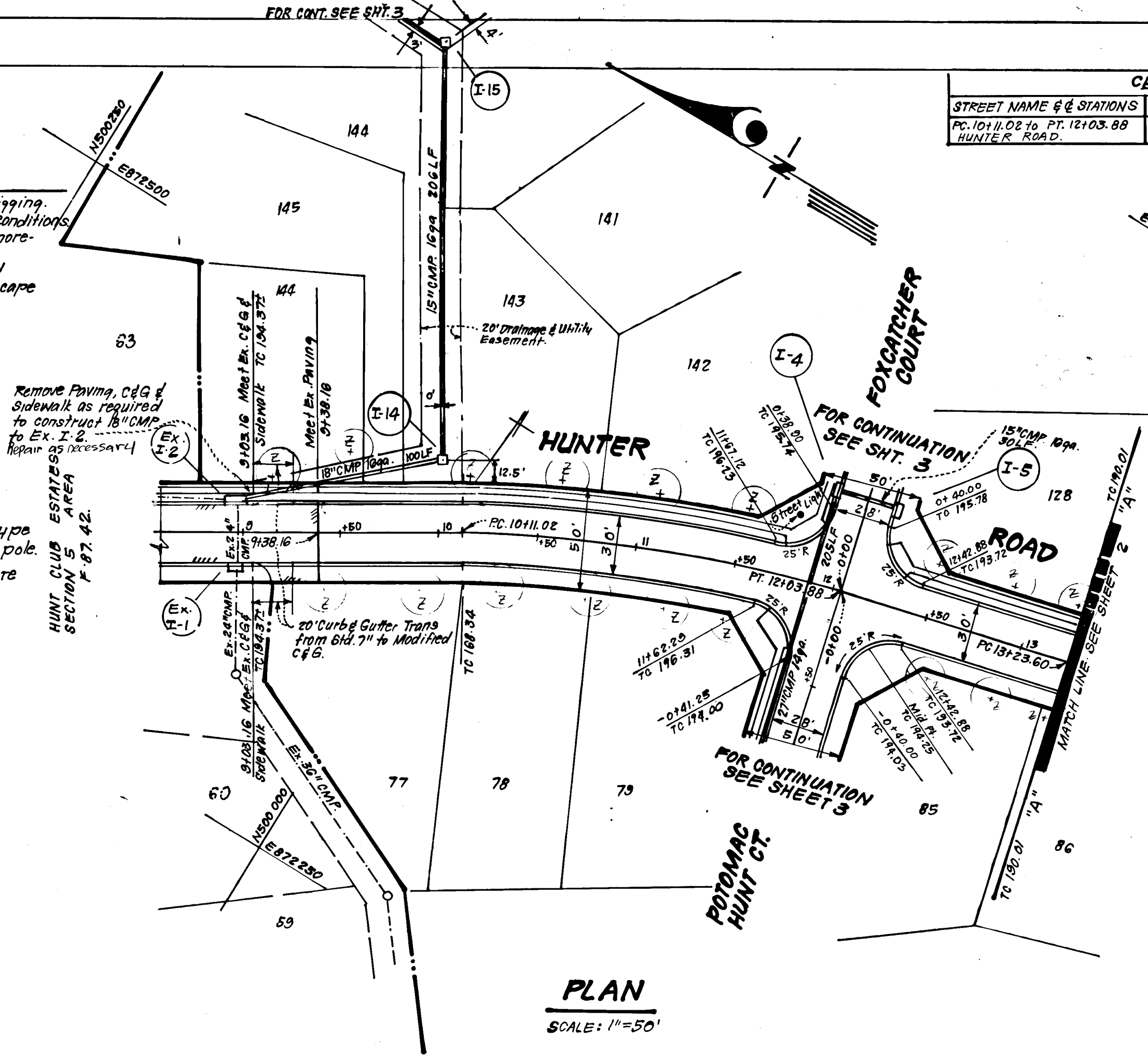
- CURB & GUTTER LEGEND:**
- Mod. Comb. C & G
  - Rev. Mod. Comb. C & G
  - Std. 7" Comb. C & G

- STREET LIGHT LEGEND:**
- 150 Watt high pressure sodium vapor lamps pendant type fixture on 30 foot galvanized steel, bronze or aluminum pole.
  - 100 Watt high pressure sodium vapor lamps post top fixture on 14 foot black or gray fiberglass pole.
- Note: Street lights to be placed 2'-10" behind curbs in accordance with Howard County Design Manual Vol. III.

CENTERLINE CURVE DATA					
STREET NAME & STATIONS	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC 104+10.26 TO PT. 121+03.89	650.00'	17°00'00"	192.86'	97.14'	192.15' S22°57'00"E
HUNTER ROAD					



- GENERAL NOTES**
- All storm drain & paving shall be constructed in accordance with the latest edition and specifications of Howard County & MDSA.
  - Types of storm drainage refer to the standard Details of Ho. Co. & MDSA.
  - Trench compaction for storm drains within road or street right-of-way limits shall be in accordance with Ho. Co. Design Manual, Vol. III, Sec. 6-2.1.
  - Information concerning underground utilities was obtained from available records, but the contractor must determine the exact location and elevation of mains by digging test pits, by hand, at all utility crossings well in advance of construction.
  - All utility companies shall be notified 24 hrs. in advance of construction.
  - All traffic services, parking and signing to be done in accordance with the "Manual of Uniform Traffic Control Devices," 3rd Revised Edition.
  - Signs and Great Vertical Curves were designed in accordance with Ho. Co. Design Manual, Vol. III.
  - Provide Conc. Sidewalk Ramps, Ho. Co. Std. Type A-R-4.0) where shown.
  - Design Speed: See Sheet 4. Zoning: R-12.
  - The contractor or developer shall contact the construction inspection/survey Division 24 hrs. in advance of commencement of work Ph. 752-7272.
  - For information regarding underdrain location, see C.E.'s plans 86-113-D "Underdrain Plan." Extreme care to be utilized when constructing in area of underdrain.



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

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*[Signature]*  
Chief, Land Development Division  
Date: 7/16/89

*[Signature]*  
Chief, Bureau of Highways  
Date: 7-26-89

*[Signature]*  
Chief, Bureau of Engineering  
Date: 8/1/89

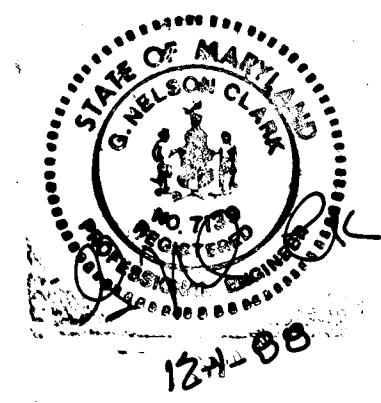
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

*[Signature]*  
Chief, Division of Community Planning & Land Development  
Date: 8/1/89

**CLARK • FINEROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

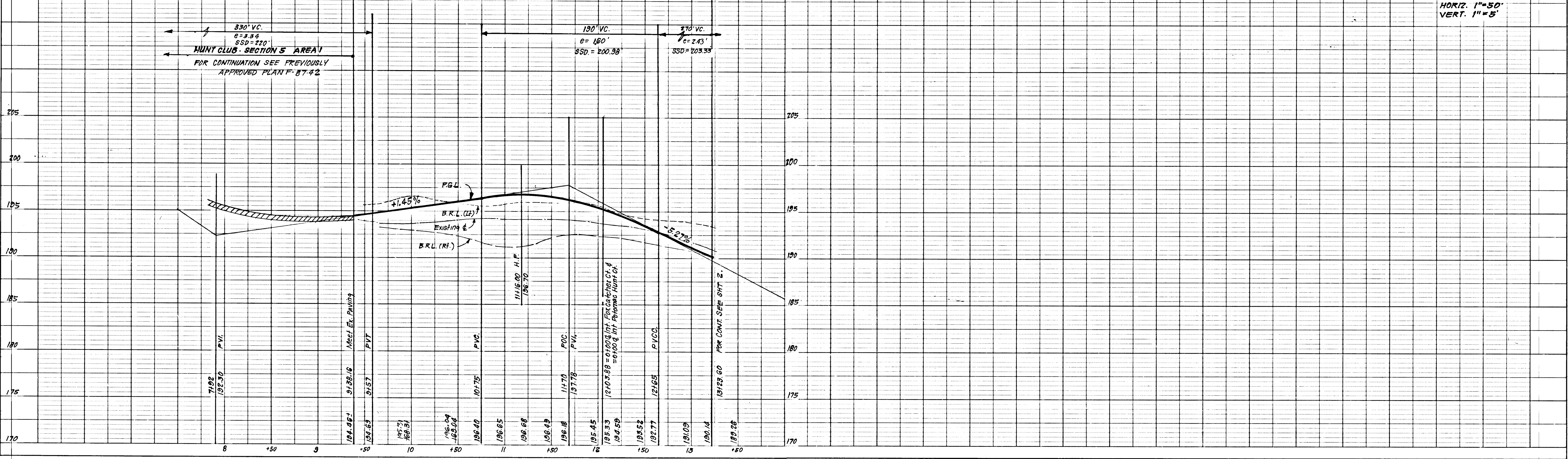
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	GLB	ROAD CONSTRUCTION PLANS HUNTER ROAD	SCALE As Shown
DRAWN	KIW	<b>HUNT CLUB ESTATES</b>	DRAWING 1 of 11
CHECKED	GLB	SECTION 5 AREA 2 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO. 86-113
DATE	4-12-89	FOR: PATUVENT JOINT VENTURE 46 Diversified Housing Corp., Suite 420 10705 Charter Dr. Columbia Md. 21044	FILE NO. 86-113-D



Date	REVISION	NO.
10-3-89	Rev. street light legend, add street light	1
		NO

**PROFILE - HUNTER ROAD**

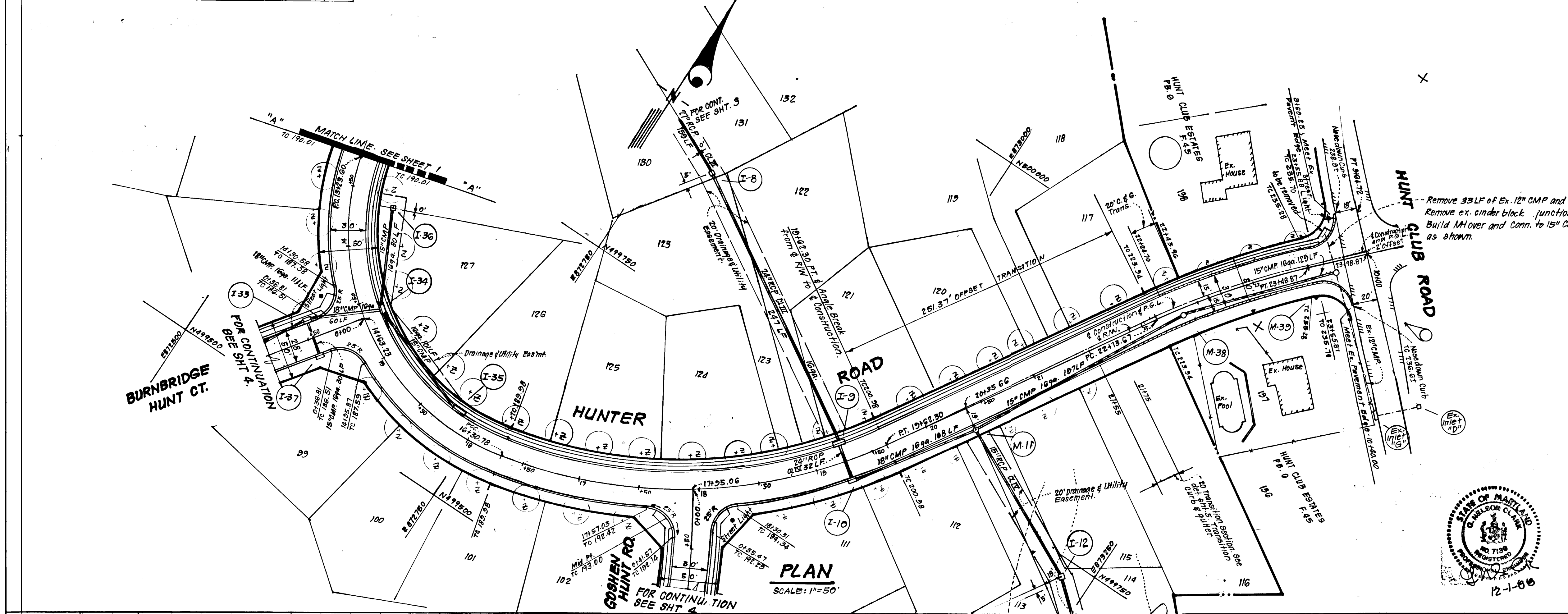


PROFILE SCALE  
HORIZ. 1"=50'  
VERT. 1"=5'



No	Add 3 Street Lights	10/2/89
	REVISION	Date

CENTERLINE CURVE DATA					
STREET NAME & STATIONS	RADIUS	Δ	ARC	TAN.	CHORD & BEARING
PC 13125.00 to FC 16130.78 HUNTER RD	200.00'	88°00'00"	307.18'	193.14'	277.86' S58°27'00"E
PCC 16130.78 to PT 19162.30 HUNTER RD	415.62'	45°42'10"	531.52'	175.15'	322.81' N54°41'55"E
POT 18162.30 to FT 23148.87 HUNTER RD	630.00'	11°55'03"	135.20'	67.85'	194.06' N37°48'22"E



Remove retaining wall & guardrail 21+59.62 → 23+55.87  
 Remove ex. cinder block junction box.  
 Build NH over and conn. to 15" CMP.  
 as shown.

12-26-89  
 DATE  
 REVISION  
 APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

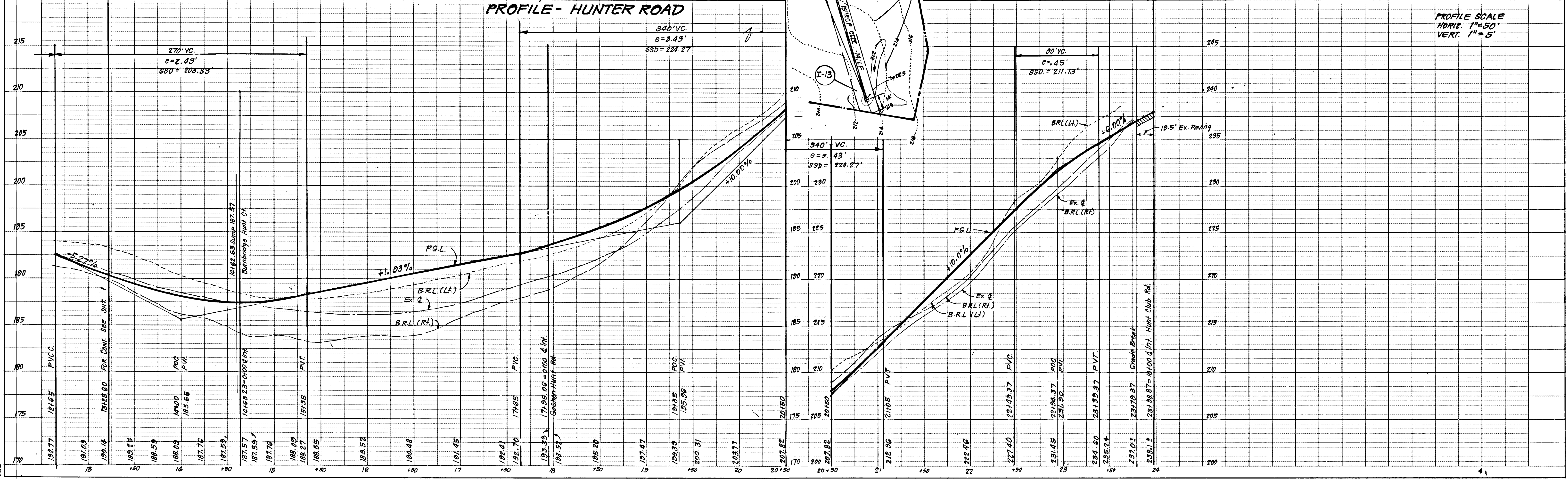
*Paul Leman* 7/11/89  
 Chief, Land Development Division  
 Date

*Charles W. Ueland* 7/26/89  
 Chief, Bureau of Highways  
 Date

*James Keith* 8/1/89  
 Chief, Division of Community Planning and Land Development  
 Date

**CLARK • FINEFROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH.

DESIGNED GLB	<b>ROAD CONSTRUCTION PLANS          HUNTER ROAD          HUNT CLUB ESTATES</b> SECTION 5 AREA 2 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: PATUXENT JOINT VENTURE c/o Diversified Housing Corp., Suite 420 10705 Charter Dr. Columbia Md. 21044	SCALE As Shown
DRAWN R/W		DRAWING 2 of 11
CHECKED GLB		JOB NO. 86-113
DATE 4-12-89		FILE NO. 86-113-D





These plans for small pond construction, soil erosion and sediment control meet the requirements of the Howard Soil Conservation District.

Approved: Robert W. Zichus 6/29/89  
Howard S.C.D.

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.

Approved: Howard S.C.D. 6/29/89  
Howard S.C.D.

Developers Certificate  
"We 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 inspections by the Howard Soil Conservation District."

William Z. Dodd 4-12-89  
Signature of Developer Date

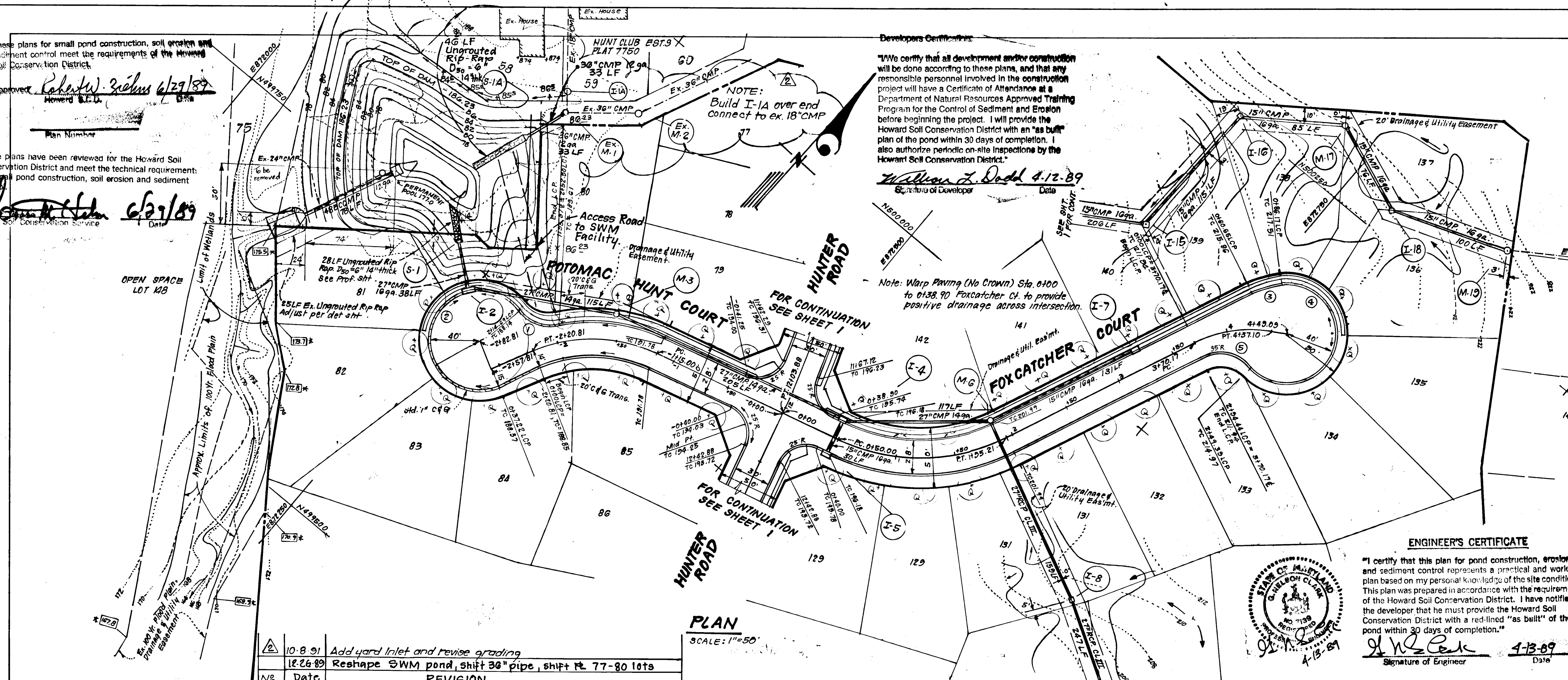
CENTERLINE CURVE DATA					
STREET NAME & STATIONS	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC - 1115.00+00 TO 2120.81	125.00'	48°30'00"	105.81'	56.31'	102.68' S51°18'00"W
POTOMAC HUNT CT.					
PT. OF 50.00' TO PT. 1+95.21	160.00'	52°00'00"	145.21'	78.04'	140.28' N49°33'00"E
PONDMASTER CT.					
PC - 378.15+00 TO 4+37.10	104.00'	36°52'23"	66.93'	34.67'	65.78' N41°53'11"E
FOXCHASER CT.					
① CURVE SAC POTOMAC HUNT CT.	40.00'	254°12'36"	177.47'		63.80' N25°52'42"W
② CURVE SAC POTOMAC HUNT CT.	35.00'	62°32'55"	38.21'	21.26'	36.34' N62°59'00"E
③ CURVE SAC POTOMAC HUNT CT.	79.24'	139°36'55"	25.52'	12.88'	25.87' N39°36'28"E
④ CURVE SAC FOXCHASER CT.	40.00'	233°47'28"	183.22'		71.35' S19°36'23"E
⑤ CURVE SAC FOXCHASER CT.	35.00'	73°44'23"	45.05'	26.25'	42.00' S60°25'09"W

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 Chief, Land Development Division  
 Approved: Danville W. Welland 7/26/89  
 Chief, Bureau of Highways  
 Approved: Howard County Office of Planning & Zoning.  
 Chief, Bureau of Engineering  
 Approved: James Bath 8/1/89  
 Chief, Division of Community Planning and Land Development.

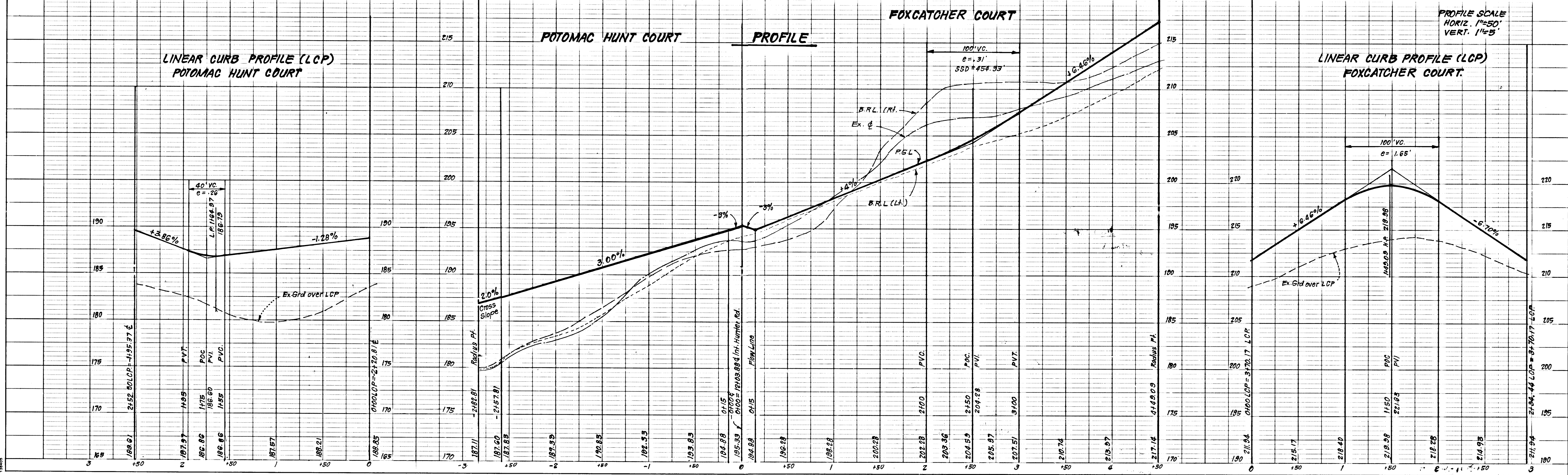
**CLARK • FINEFROCK & SACKETT, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 7135 MINISTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH

DESIGNED	GLB	SCALE	As Shown
DRAWN	KIW	DRAWING	3 OF 11
CHECKED	GLB	JOB NO	86-113
DATE	4-12-89	FILE NO	86-113-D

FOR: PATUXENT JOINT VENTURE  
 56 Diversified Housing Corp., Suite 420  
 10705 Charter Dr. Columbia, Md. 21044



NO.	DATE	REVISION
1	10-8-91	Add yard inlet and revise grading
2	12-26-89	Reshape SWM pond, shift 36" pipe, shift PL 77-80 lots
3	N/A	Date

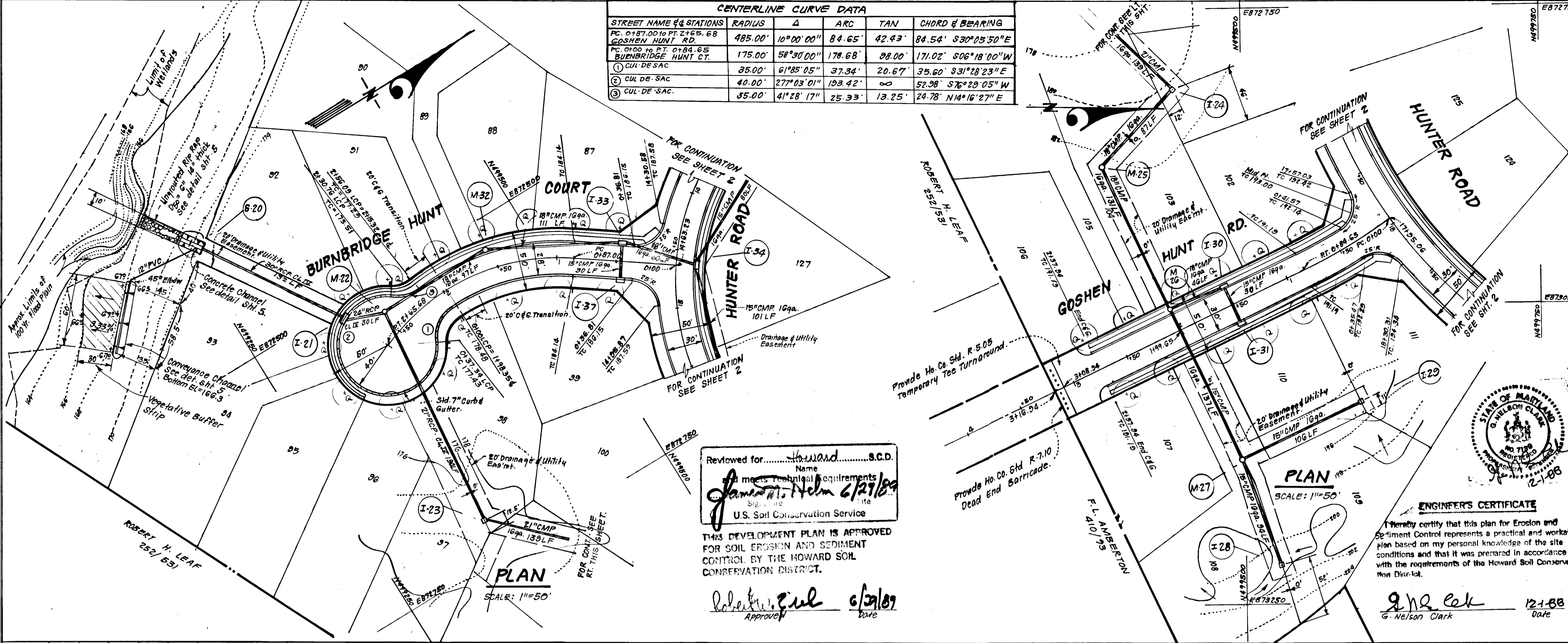


169



PIPE SIZE ✓

CENTERLINE CURVE DATA					
STREET NAME & STATIONS	RADIUS	Δ	ARC	TAN	CHORD & BEARING
PC: 0+87.00 TO PT: 2+65.68 GOSHEN HUNT RD.	485.00'	10°00'00"	84.65'	42.43'	84.54' S30°15'30"E
PT: 0+85.00 TO CUR: 6.65 BURNBRIDGE HUNT CT.	175.00'	58°30'00"	178.68'	98.00'	171.02' S06°18'00"W
① CUL. DE. SAC.	35.00'	61°25'05"	37.34'	20.67'	35.60' S31°28'23"E
② CUL. DE. SAC.	40.00'	277°03'01"	193.42'	∞	52.98' S76°29'05"W
③ CUL. DE. SAC.	35.00'	41°28'17"	25.33'	13.25'	24.78' N4°16'27"E



Reviewed for: Howard S.C.D.  
Name  
in accordance with requirements  
Jamieson Nelson 6/21/89  
Signature  
U.S. Soil Conservation Service  
Date

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

Robert E. Guel 6/21/89  
Signature  
Date

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary.

William J. Wood 12-1-88  
Signature of Developer/Builder Date

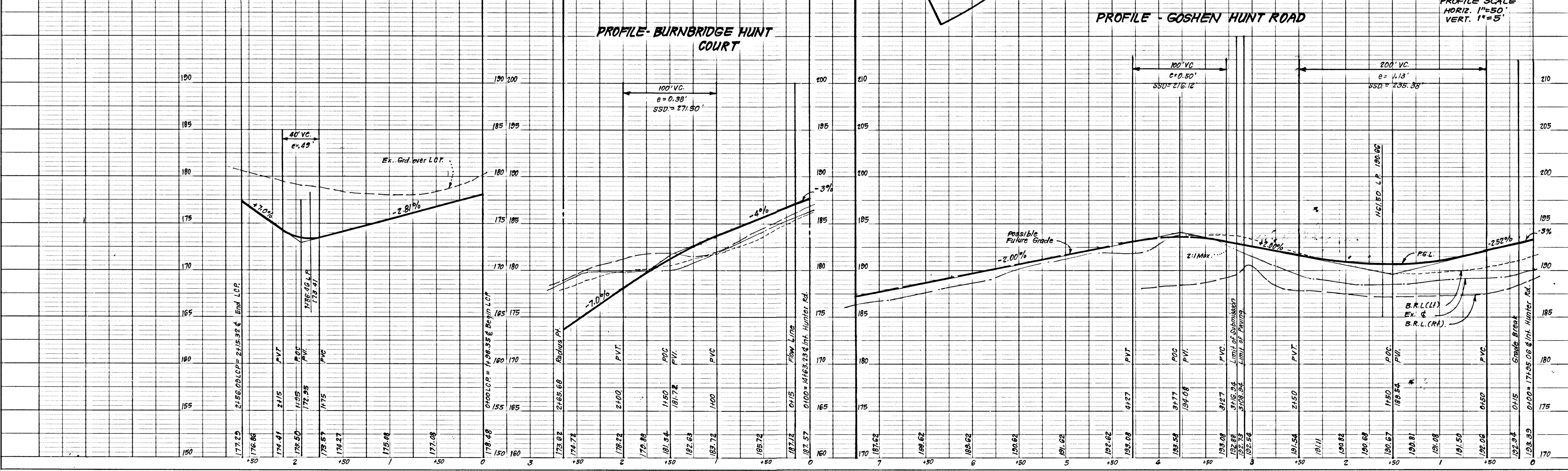
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Richard J. ... 7/10/88  
Chief, Land Development Division Date  
Franklin W. ... 7/10/88  
Chief, Bureau of Highways Date  
... .. 7-20-88  
Chief, Bureau of Engineering Date  
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
... .. 8/1/88  
Chief, Division of Community Planning & Land Development Date

**CLARK • FINEROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS  
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH

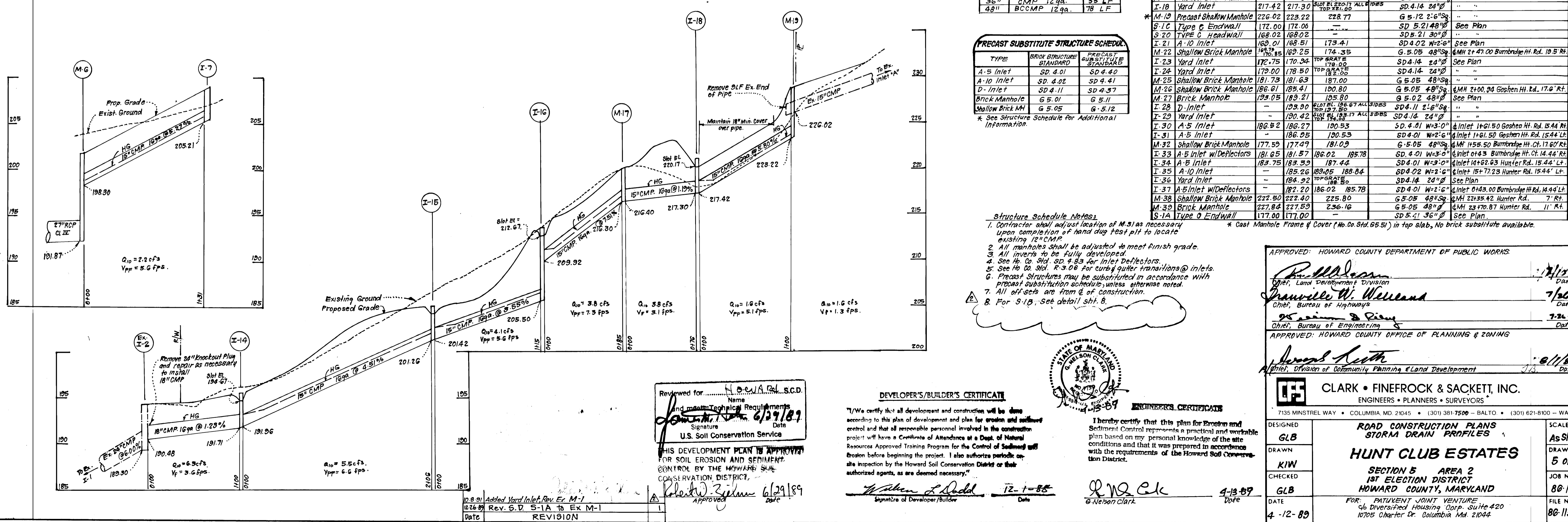
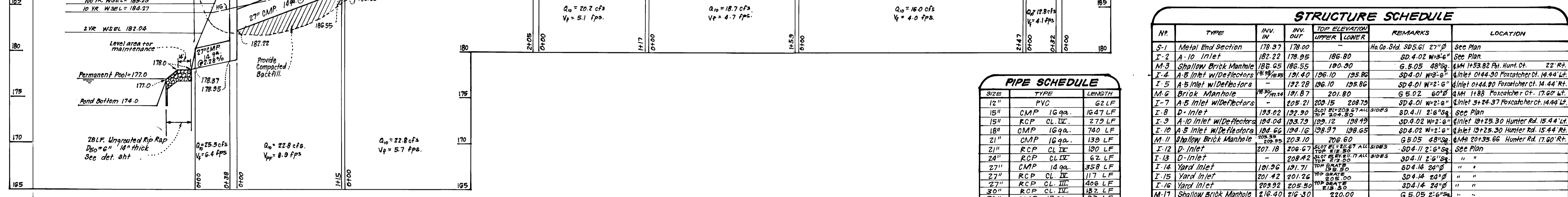
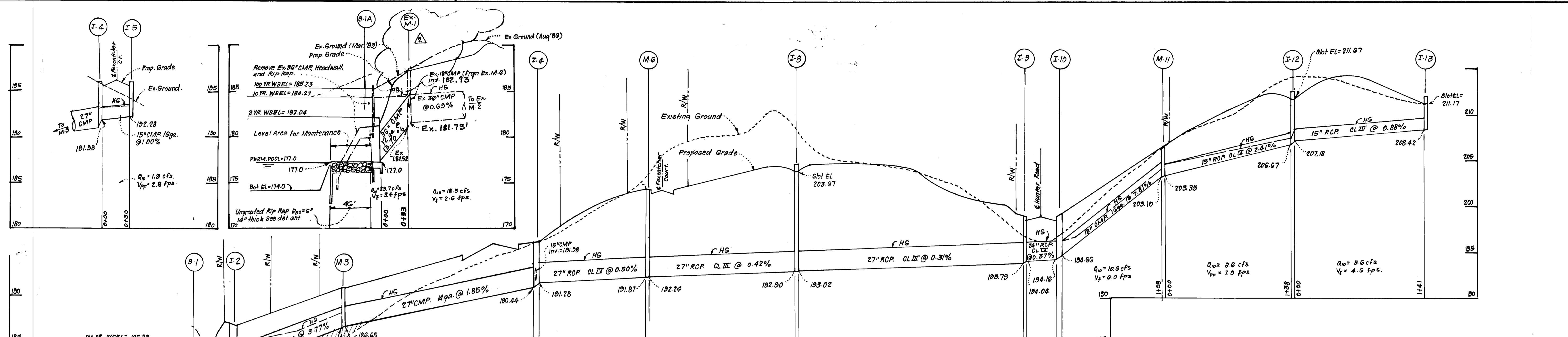
DESIGNED	GLB	SCALE	As Shown
DRAWN	KIW	DRAWING	4 of 11
CHECKED	GLB	JOB NO.	86-113
DATE	4-12-89	FILE NO.	86-113-D

**ROAD CONSTRUCTION PLANS**  
**BURNBRIDGE HUNT COURT & GOSHEN HUNT ROAD**  
**HUNT CLUB ESTATES**  
SECTION 5 AREA 2  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
FOR: PATUXENT JOINT VENTURE  
4 Diversified Housing Corp., Suite 420  
10705 Charter Dr. Columbia Md. 21044

**PROFILE - GOSHEN HUNT ROAD**  
PROFILE SCALE  
HORIZ. 1"=50'  
VERT. 1"=5'







### PIPE SCHEDULE

SIZE	TYPE	LENGTH
12"	PVC	62 LF
15"	CMP 16ga.	1647 LF
15"	RCP CL. IV.	279 LF
18"	CMP 16ga.	740 LF
21"	CMP 16ga.	130 LF
21"	RCP CL. IV.	100 LF
24"	RCP CL. IV.	62 LF
27"	CMP 14ga.	358 LF
27"	RCP CL. IV.	117 LF
27"	RCP CL. III.	406 LF
30"	RCP CL. IV.	182 LF
36"	CMP 12ga.	33 LF
48"	BCCMP 12ga.	78 LF

### PRECAST SUBSTITUTE STRUCTURE SCHEDULE

TYPE	BRICK STRUCTURE STANDARD	PRECAST SUBSTITUTE STANDARD
A-5 Inlet	SD 4.01	SD 4.40
A-10 Inlet	SD 4.02	SD 4.41
D- Inlet	SD 4.11	SD 4.37
Brick Manhole	G 5.01	G 5.11
Shallow Brick MH	G 5.05	G 5.12

### STRUCTURE SCHEDULE

No.	TYPE	INV. IN	INV. OUT	TOP ELEVATION UPPER LOWER	REMARKS	LOCATION
S-1	Metal End Section	178.37	178.00	178.00	No Co. Std. 30.51 27" D	See Plan
I-2	A-10 Inlet	182.22	178.95	186.80	SD 4.02 W=2'6"	See Plan
M-3	Shallow Brick Manhole	188.65	186.55	190.90	G 5.05 48" Sq.	MH 1453.82 Pt. Hunt Ct. 22' Rt.
I-4	A-5 Inlet w/Deflectors	191.40	196.10	195.80	SD 4.01 W=2'6"	Inlet 1044.90 Foxcatcher Ct. 14.44' Lt.
I-5	A-5 Inlet w/Deflectors	192.28	196.10	195.80	SD 4.01 W=2'6"	Inlet 1044.90 Foxcatcher Ct. 14.44' Lt.
M-6	Brick Manhole	191.87	201.80	201.80	G 5.02 60" D	MH 1488 Foxcatcher Ct. 17.60' Lt.
I-7	A-5 Inlet w/Deflectors	205.21	209.15	208.70	SD 4.01 W=2'6"	Inlet 3+24.37 Foxcatcher Ct. 14.44' Lt.
I-8	D- Inlet	193.02	192.90	204.80	SD 4.11 2'6" Sq.	See Plan
I-9	A-10 Inlet w/Deflectors	194.04	193.79	199.12	SD 4.02 W=2'6"	Inlet 19+25.30 Hunter Rd. 15.44' Lt.
I-10	A-5 Inlet w/Deflectors	184.66	194.16	198.97	SD 4.02 W=2'6"	Inlet 19+25.30 Hunter Rd. 15.44' Lt.
M-11	Shallow Brick Manhole	203.35	203.10	206.60	G 5.05 48" Sq.	MH 20+35.66 Hunter Rd. 17.60' Rt.
I-12	D- Inlet	207.18	206.67	206.60	SD 4.11 2'6" Sq.	See Plan
I-13	D- Inlet	208.42	208.42	208.42	SD 4.11 2'6" Sq.	See Plan
I-14	Yard Inlet	191.96	191.71	205.00	SD 4.14 24" D	" "
I-15	Yard Inlet	201.42	201.26	205.00	SD 4.14 24" D	" "
I-16	Yard Inlet	209.92	205.50	205.00	SD 4.14 24" D	" "
M-17	Shallow Brick Manhole	216.40	216.30	220.00	G 5.05 2'6" Sq.	" "
I-18	Yard Inlet	217.42	217.30	217.30	SD 4.14 24" D	" "
M-19	Precast Shallow Manhole	226.02	223.22	228.71	G 5.12 2'6" Sq.	" "
S-1C	Type C Endwall	172.00	172.00	172.00	SD 5.21 48" D	See Plan
S-20	Type C Headwall	168.02	168.02	168.02	SD 5.21 30" D	See Plan
I-21	A-10 Inlet	169.01	168.51	173.41	SD 4.02 W=2'6"	See Plan
M-22	Shallow Brick Manhole	174.85	169.25	174.35	G 5.05 48" Sq.	MH 2+47.00 Burnbridge Hl. Rd. 10.5' Rt.
I-23	Yard Inlet	172.75	170.94	178.00	SD 4.14 24" D	See Plan
I-24	Yard Inlet	179.00	178.50	178.00	SD 4.14 24" D	" "
M-25	Shallow Brick Manhole	181.73	181.63	187.00	G 5.05 48" Sq.	" "
M-26	Shallow Brick Manhole	186.61	185.41	190.80	G 5.05 48" Sq.	MH 2+00.90 Goshen Hl. Rd. 17.6' Rt.
M-27	Brick Manhole	193.05	189.21	195.80	G 5.02 48" Sq.	See Plan
I-28	D- Inlet	193.90	193.90	193.90	SD 4.11 2'6" Sq.	" "
I-29	Yard Inlet	190.42	190.42	193.17	SD 4.14 24" D	" "
I-30	A-5 Inlet	186.52	186.27	190.53	SD 4.01 W=3'0"	Inlet 14+61.50 Goshen Hl. Rd. 15.44' Rt.
I-31	A-5 Inlet	186.05	186.05	190.53	SD 4.01 W=2'6"	Inlet 14+61.50 Goshen Hl. Rd. 15.44' Rt.
M-32	Shallow Brick Manhole	177.59	177.49	181.09	G 5.05 48" Sq.	MH 1455.50 Burnbridge Hl. Ct. 17.60' Rt.
I-33	A-5 Inlet w/Deflectors	181.65	181.57	186.02	SD 4.01 W=3'0"	Inlet 4+43 Burnbridge Hl. Ct. 14.44' Rt.
I-34	A-5 Inlet	183.75	183.59	187.44	SD 4.01 W=3'0"	Inlet 14+62.63 Hunter Rd. 15.44' Lt.
I-35	A-10 Inlet	185.26	189.05	188.64	SD 4.02 W=2'6"	Inlet 15+77.23 Hunter Rd. 15.44' Lt.
I-36	Yard Inlet	184.92	184.92	188.50	SD 4.14 24" D	See Plan
I-37	A-5 Inlet w/Deflectors	182.20	186.02	185.78	SD 4.01 W=2'6"	Inlet 0+43.00 Burnbridge Hl. Rd. 14.44' Lt.
M-38	Shallow Brick Manhole	222.80	222.40	225.80	G 5.05 48" Sq.	MH 22+35.42 Hunter Rd. 7' Rt.
M-39	Brick Manhole	227.84	227.59	236.16	G 5.05 48" Sq.	MH 23+70.87 Hunter Rd. 11' Rt.
S-1A	Type D Endwall	177.00	177.00	177.00	SD 5.41 36" D	See Plan

**Structure Schedule Notes:**

- Contractor shall adjust location of M-31 as necessary upon completion of hand dug test pit to locate existing 12" CMP.
- All manholes shall be adjusted to meet finish grade.
- All inverts to be fully developed.
- See Hb. Co. Std. R-3-D-8 for curb & gutter transitions @ inlets.
- See Hb. Co. Std. R-3-D-8 for curb & gutter transitions @ inlets.
- Precast structures may be substituted in accordance with precast substitute schedule unless otherwise noted.
- All off-sets are from E of construction.
- For S-1B, See detail sht. 8.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

*William W. Welland*  
Chief, Bureau of Highways  
Date: 7/26/89

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING

*David Keith*  
Chief, Division of Community Planning & Land Development  
Date: 8/1/89

Reviewed for: H. O. W. A. R. S. C. D.  
Name: *John W. Zilmer*  
Signature: *John W. Zilmer*  
Date: 6/29/89  
U.S. Soil Conservation Service

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

*John W. Zilmer*  
Date: 6/29/89

**DEVELOPER'S/BUILDER'S CERTIFICATE**

"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."

*William L. Siedel*  
Signature of Developer/Builder  
Date: 7-1-89

**ENGINEER'S CERTIFICATE**

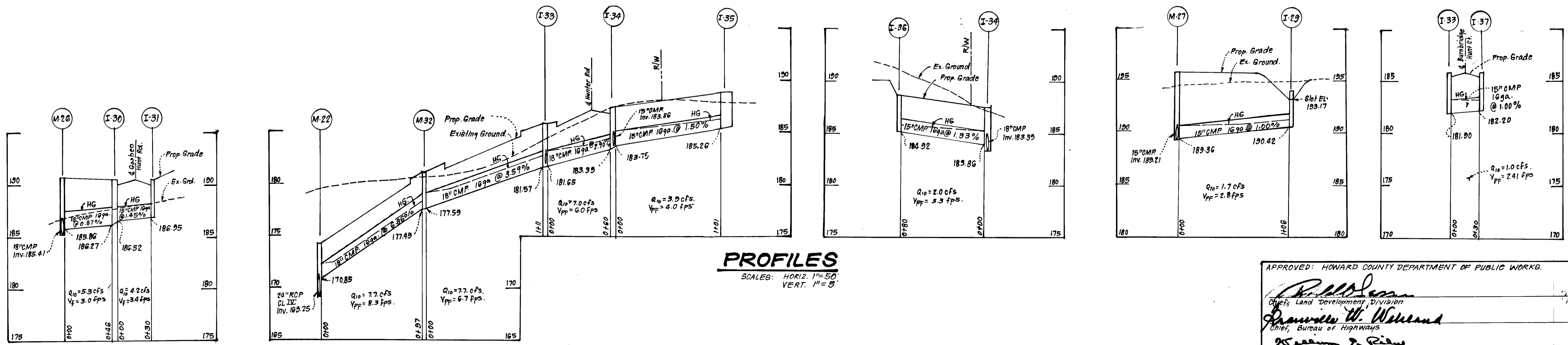
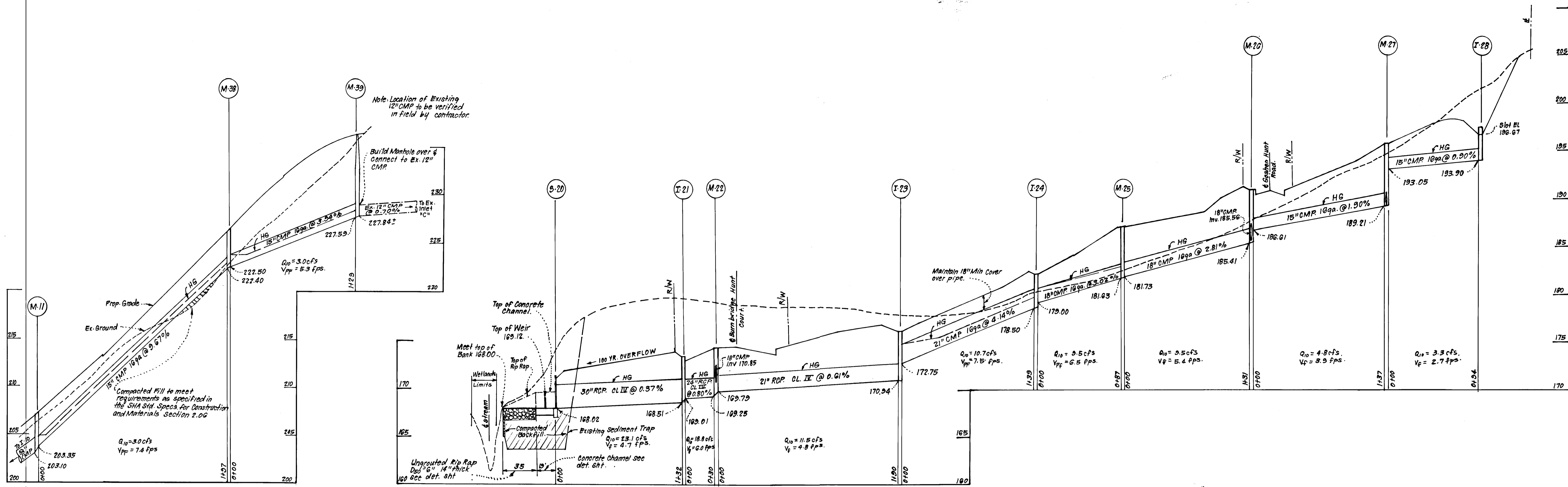
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

*G. Nelson Clark*  
Signature  
Date: 7-13-89

**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

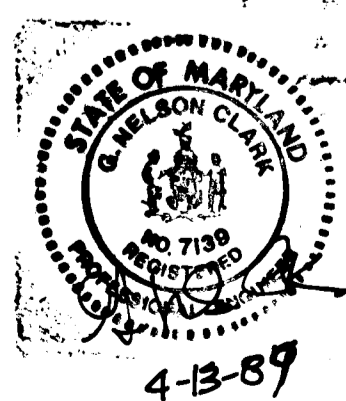
7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.

DESIGNED	GLB	<b>ROAD CONSTRUCTION PLANS STORM DRAIN PROFILES</b>  <b>HUNT CLUB ESTATES</b>  SECTION 5 AREA 2 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  FOR: PATUVENT JOINT VENTURE 56 Diversified Housing Corp. Suite 420 10705 Charter Dr. Columbia Md. 21044	SCALE	As Shown
DRAWN	KIW		DRAWING	5 OF 11
CHECKED	GLB		JOB NO.	80-113
DATE	4-12-89		FILE NO.	80-113-D



Reviewed for... **HOWARD COUNTY S.C.D.**  
 Name  
 and meets Technical Requirements  
 Signature: *James H. ...* Date: **6/29/89**  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: *Robert W. Ziehm* Date: **6/29/89**

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 "I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary."  
 Signature of Developer/Builder: *William J. Dodd* Date: **6-12-89**



**ENGINEER'S CERTIFICATE**  
 I hereby 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.  
 Signature: *Neilson Clark* Date: **4-13-89**

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.  
 Chief, Land Development Division: *Robert W. ...* Date: **7/16/89**  
 Chief, Bureau of Highways: *James W. ...* Date: **7/26/89**  
 Chief, Bureau of Engineering: *James W. ...* Date: **7-26-89**  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.  
 Chief, Division of Community Planning & Land Development: *James W. ...* Date: **6/1/89**

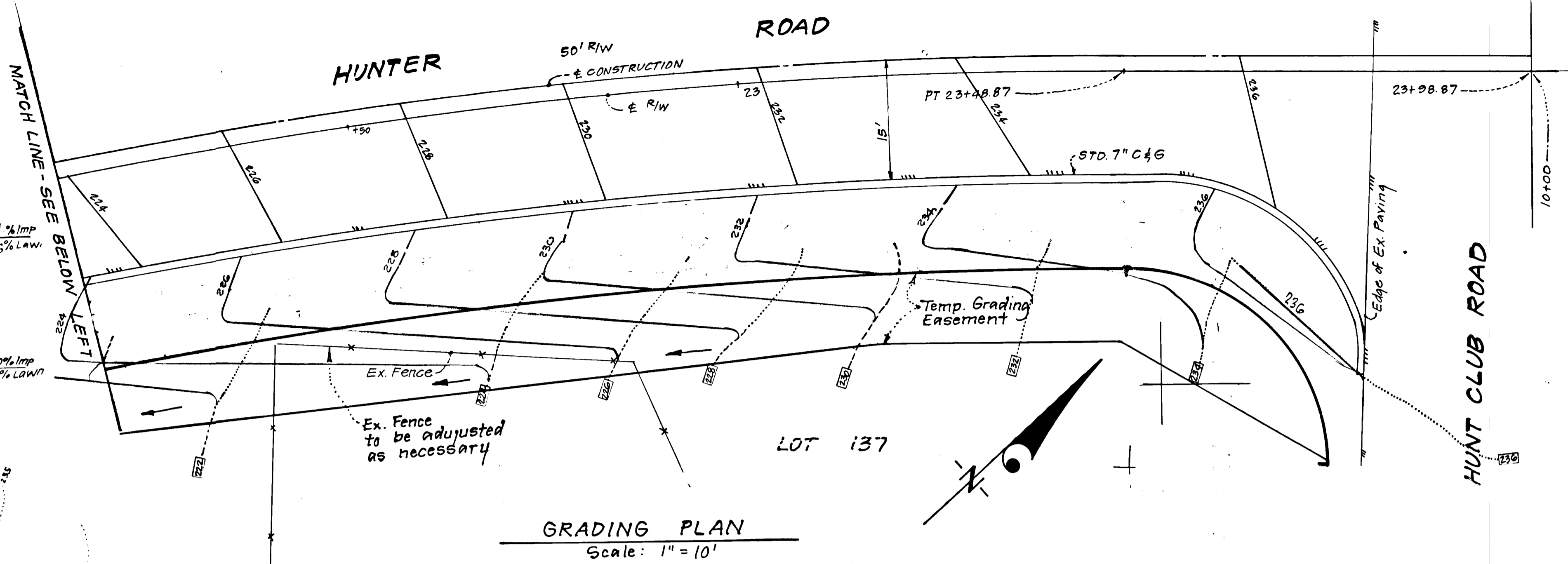
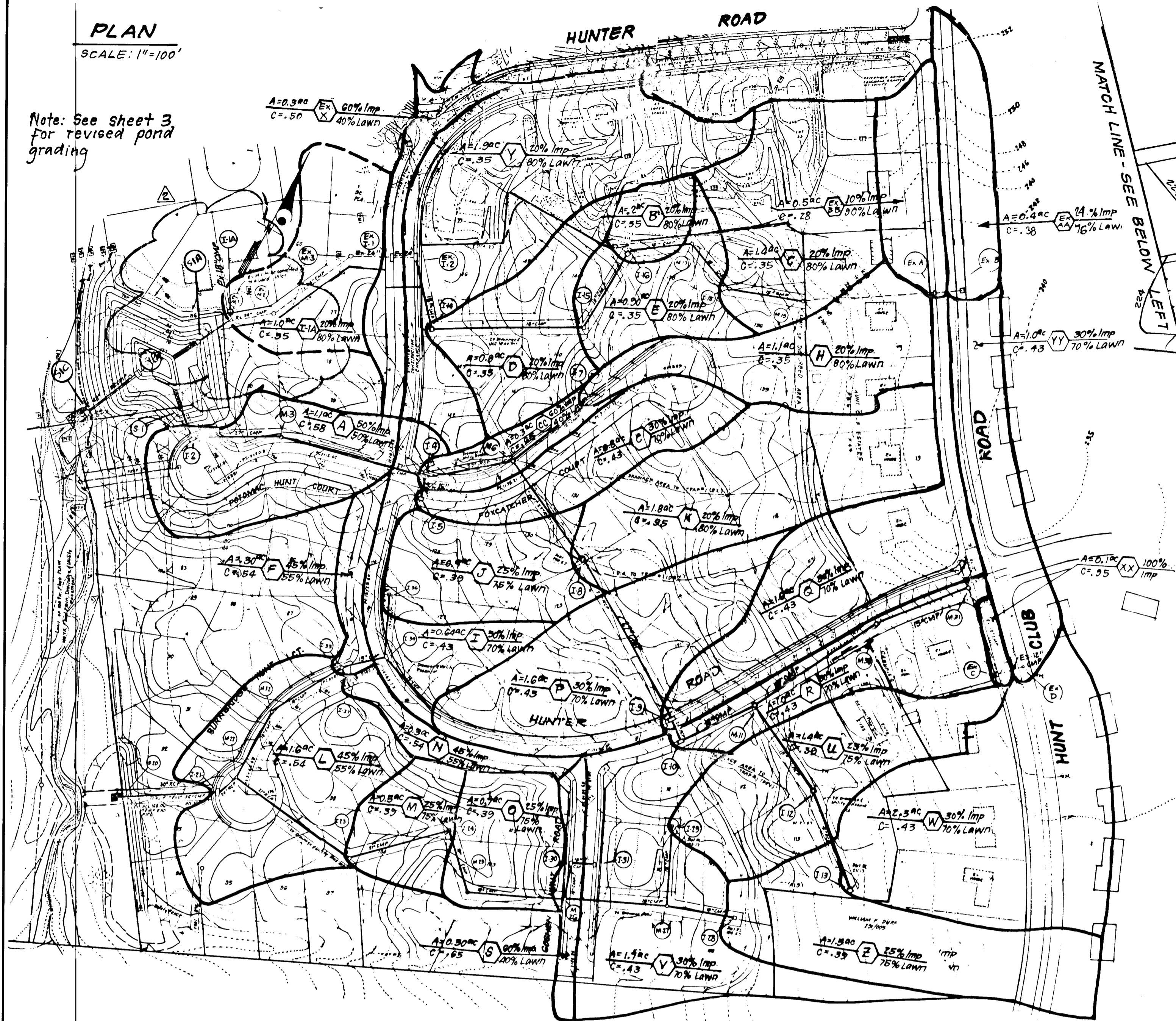
<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.		SCALE <b>As Shown</b>
DESIGNED GLB	<b>ROAD CONSTRUCTION PLANS          STORM DRAIN PROFILES</b>  <b>HUNT CLUB ESTATES</b>  SECTION 5 AREA 2 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND  FOR: PATIENT JOINT VENTURE o/o Diversified Housing Corp. Suite 420 10705 Charter Dr. Columbia Md. 21044	DRAWING <b>6 OF 11</b>
DRAWN KW		JOB NO. <b>86-113</b>
CHECKED GLB		FILE NO. <b>86-113-D</b>
DATE <b>4-12-89</b>		



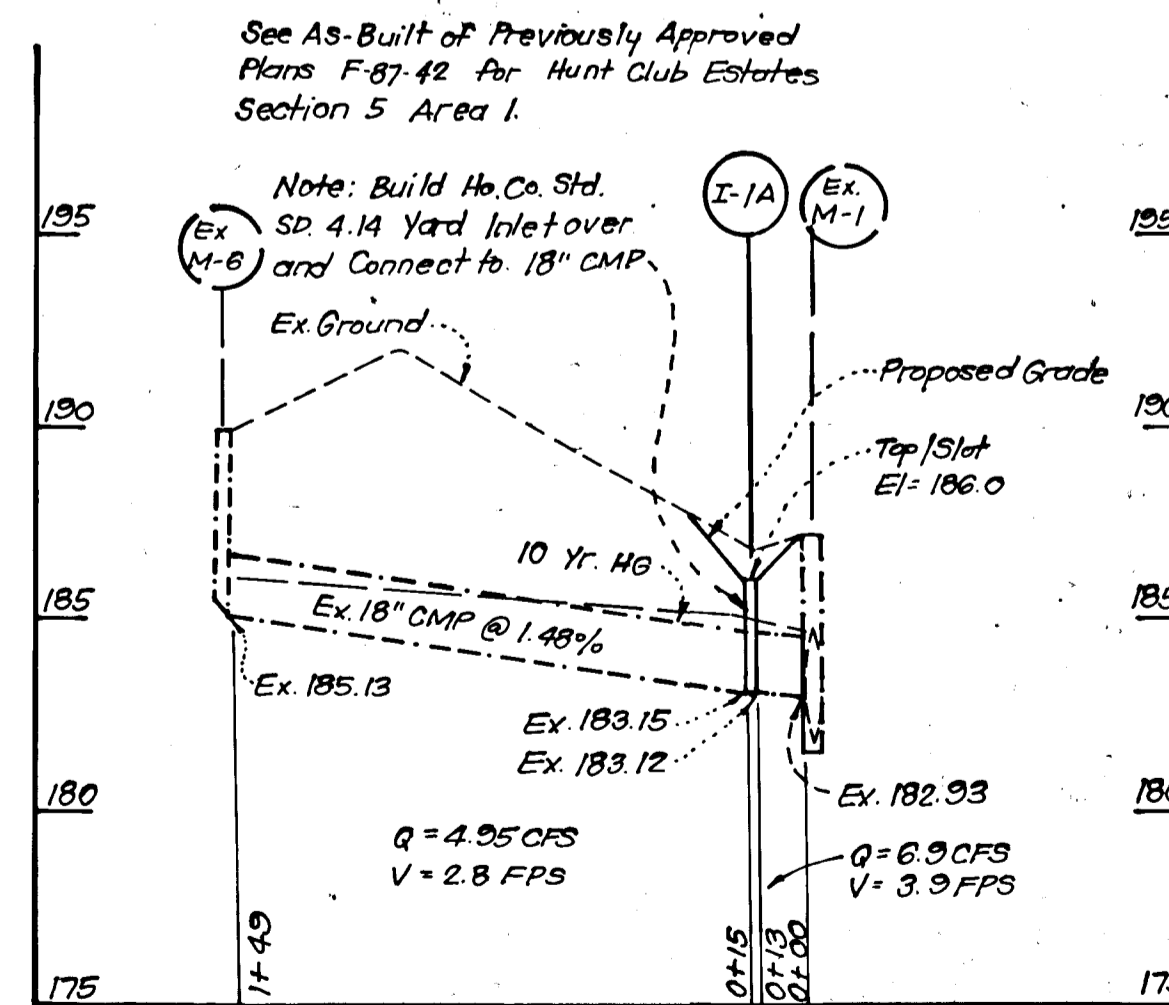
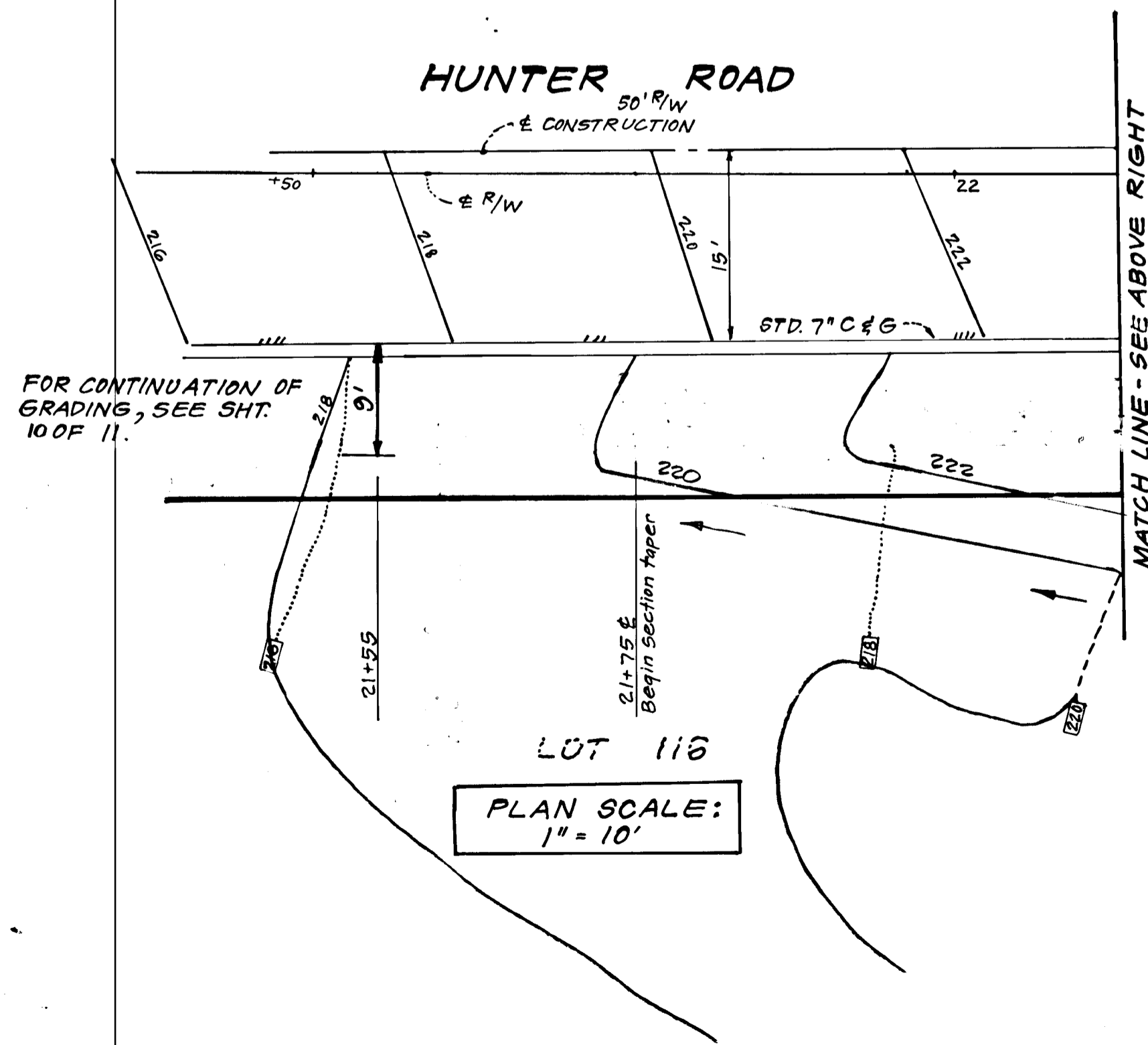
**PLAN**

SCALE: 1" = 100'

Note: See sheet 3 for revised pond grading

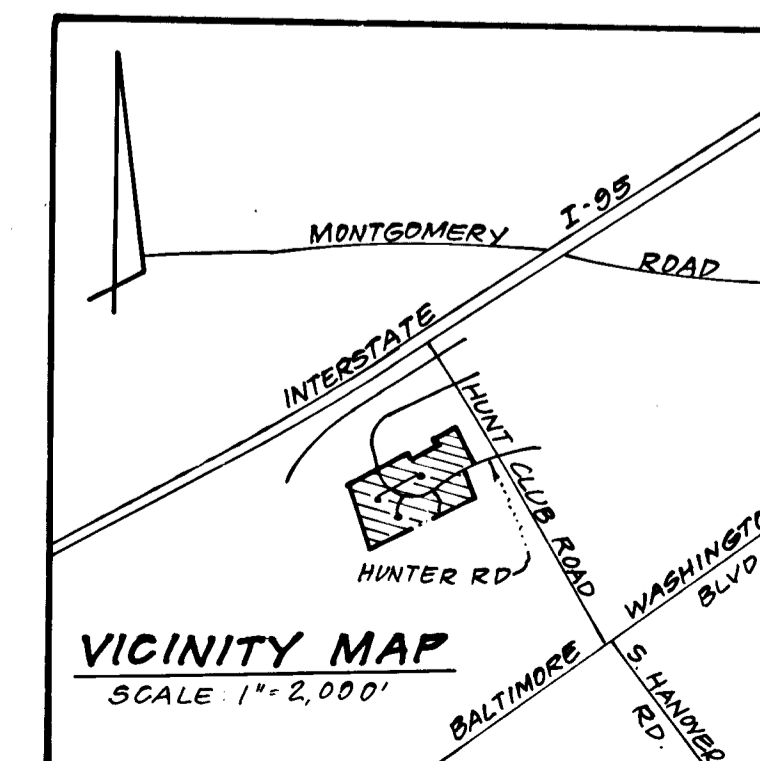


**HUNTER ROAD**



**PROFILE**

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

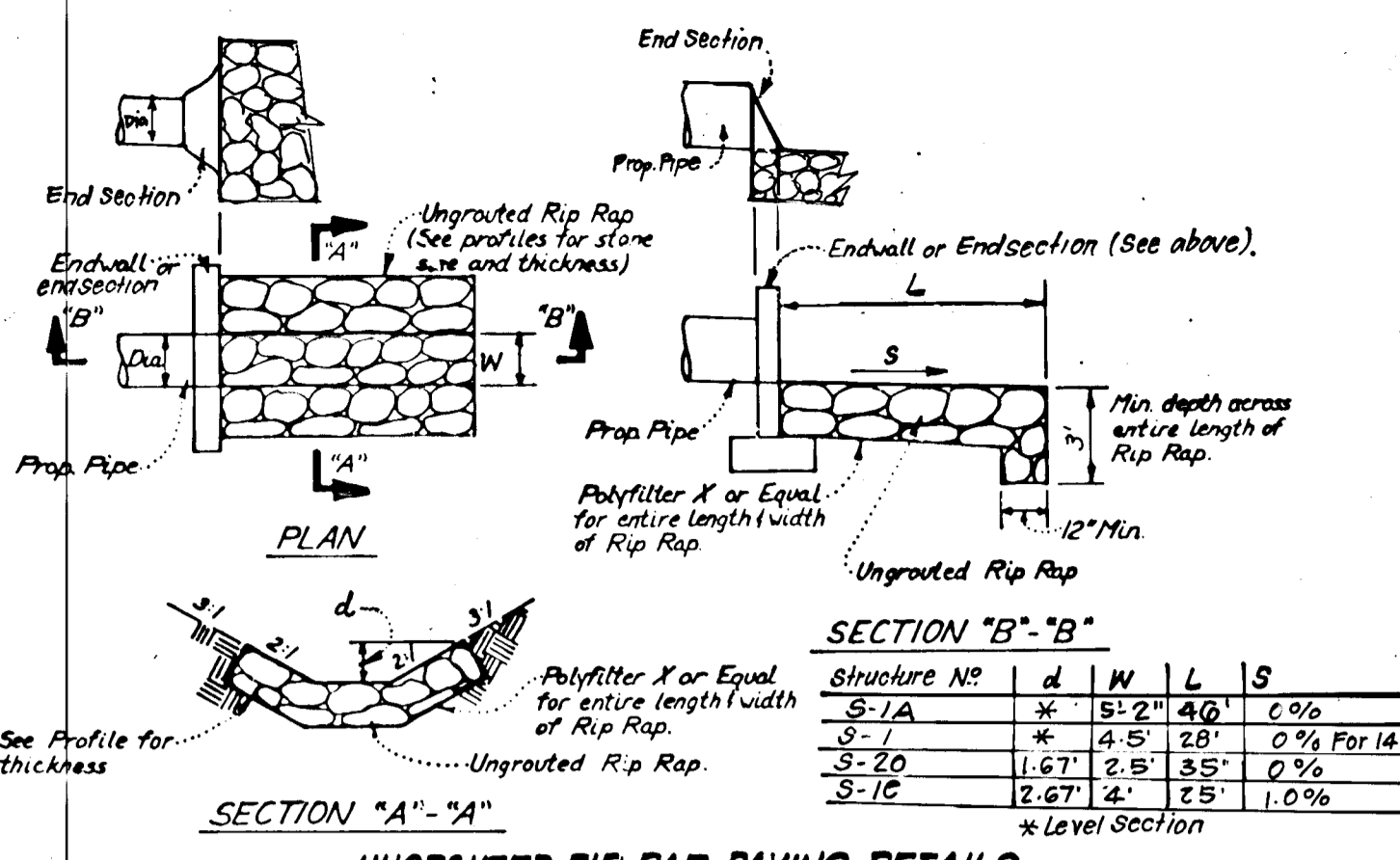


10.8.81	Rev. Drainage Area Map, Added Profile	
12.26.89	Remove ref. wall & rev. prop. contours on Hunter Rd.	
Date	REVISION	
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
<i>[Signature]</i>		7/10/87
Chief, Land Development Division		Date
<i>[Signature]</i>		7/26/87
Chief, Bureau of Highways		Date
<i>[Signature]</i>		7-26-87
Chief, Bureau of Engineering		Date
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
<i>[Signature]</i>		8/1/87
Chief, Division of Community Planning & Land Development		Date
<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7111 MINTREL WAY • COLUMBIA MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH		
DESIGNED	GLB	SCALE 1" = 100'
DRAWN	VLM	DRAWING TOP 11
CHECKED	KIW	JOB NO. 88-113
DATE	GLB	FILE NO. 88-113-0
4-12-89		
<b>ROAD CONSTRUCTION PLANS</b> <b>DRAINAGE AREA MAP</b> <b>RETAINING WALL PROFILE &amp; PLAN</b> <b>HUNT CLUB ESTATES</b> SECTION 5 AREA 2 101 ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: PATIENT JOINT VENTURE % Diversified Housing Corp., Suite 450 10728 Chief Dr. Oklahoma City, MO 73168		



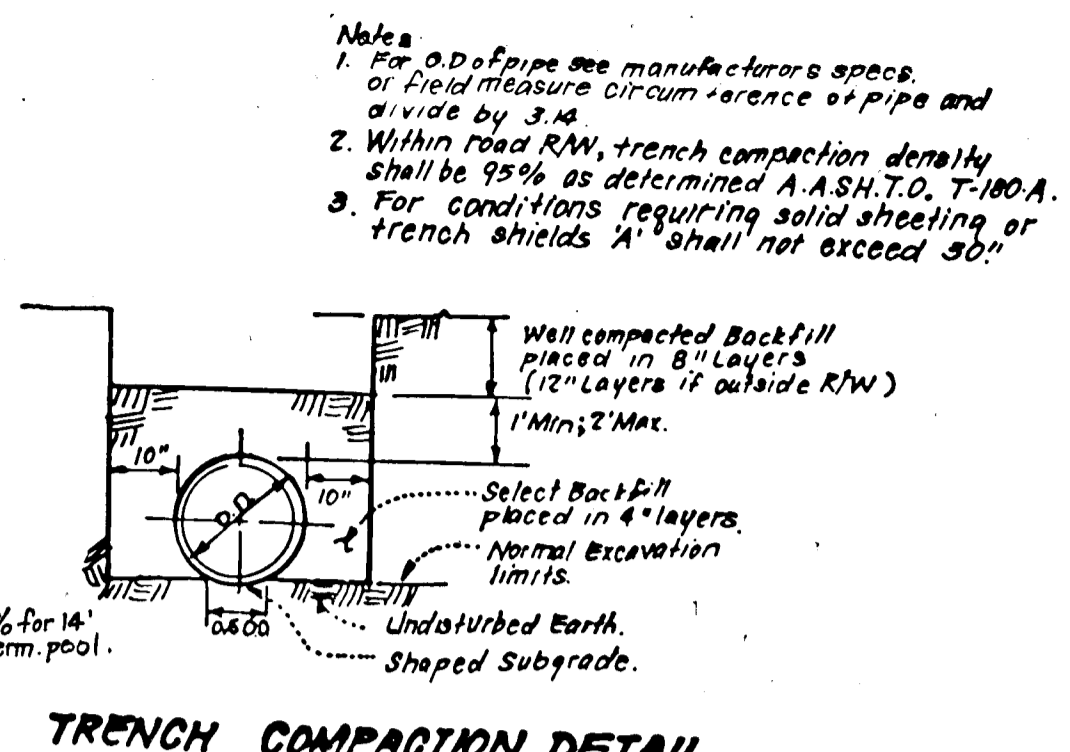




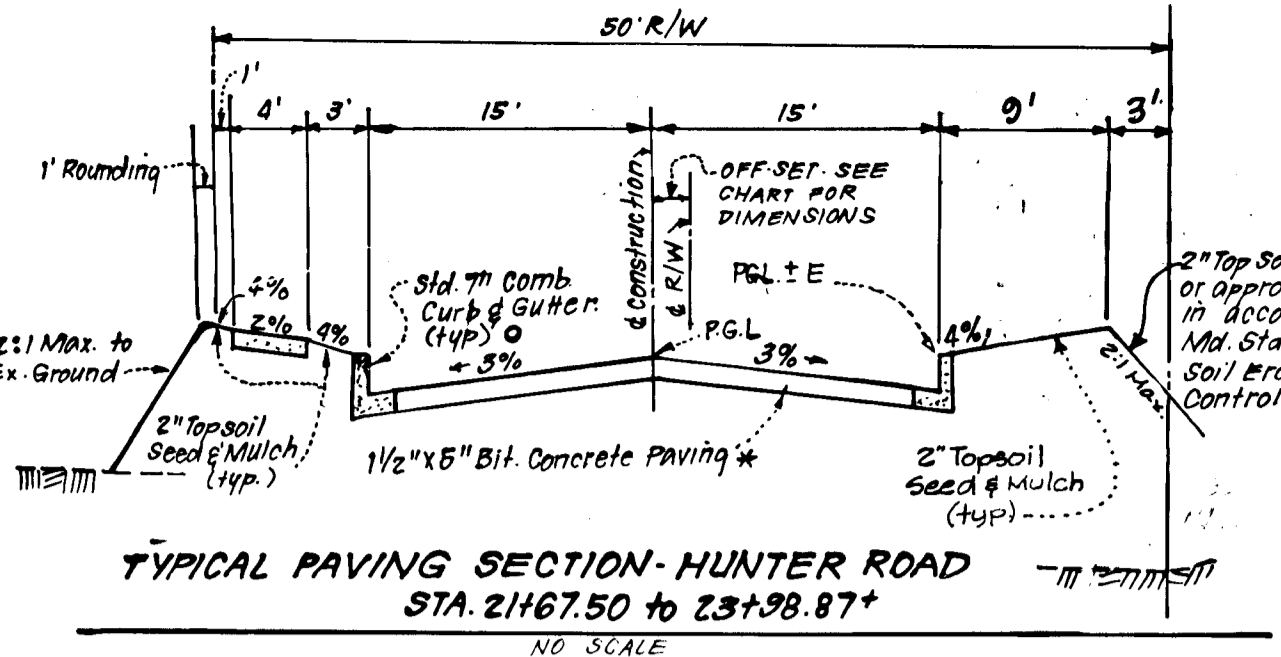


**SECTION "B"-B"**  
\* Level Section

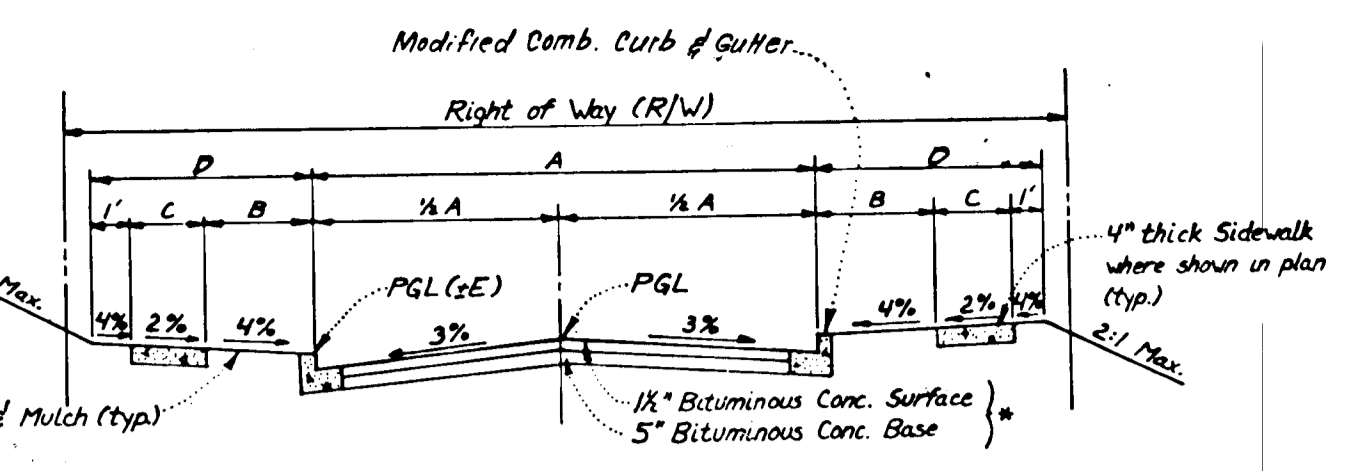
Structure No	d	W	L	S
S-1A	4.5'	28"	4.0'	0.0%
S-1	4.5'	28"	0%	For 14', 7.14% for 14'
S-20	1.67'	2.5'	3.5'	0%
S-10	2.67'	4'	2.5'	1.0%



**TRENCH COMPACTION DETAIL**  
NO SCALE



**TYPICAL PAVING SECTION - HUNTER ROAD**  
STA. 21467.50 to 23+98.87\*  
NO SCALE



**TYPICAL PAVING SECTION - PUBLIC ROADS**  
NO SCALE  
\* For Alternate Paving Section - See det. this sht.

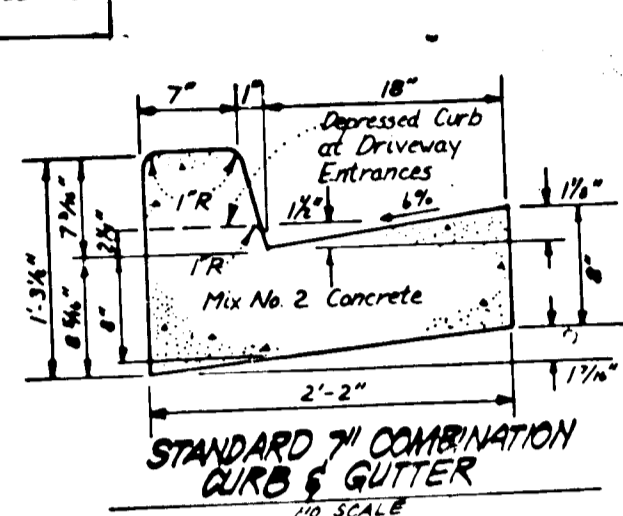
\* see Alternate Paving Section this sht.  
\* Transition Section from 19+22.80 to 21157.62

o Transition curb to modified as follows: Left Side, 22+49.96 to 22+24.70 Right Side, 2175 to 2155.

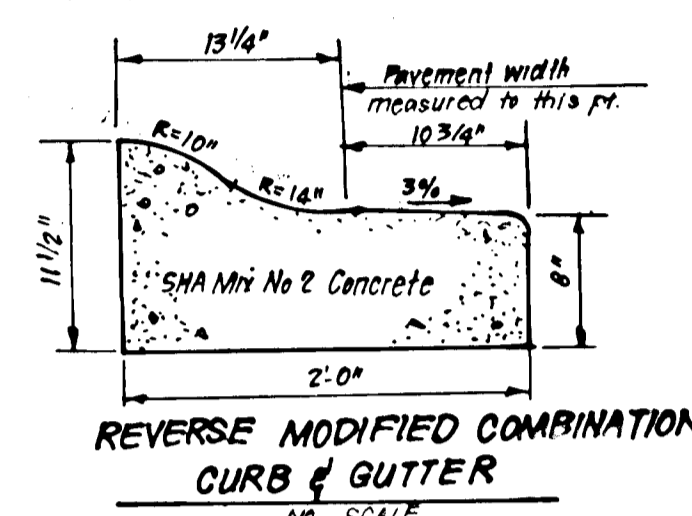
FROM STATION	TO STATION	OFFSET/COMMENTS
19+62.30	21+59.62	Varies from 0' @ 19+62.30 to 1.57 @ 21+59.62
21+59.62	22+13.67	Varies from 1.57 @ 21+59.62 to 2.0' @ 22+13.67
22+13.67	23+98.87	2.00'

STREET NAME & STATION	TYPE OF TRAFFIC	A	B	C	D	R/W	ZONING	DESIGN SPEED	E
HUNTER ROAD 19+58.16 to 19+62.30	LOCAL	15'	4'	4'	0'	50'	R-12	30 mph	18
GOSHEN HUNT RD 0+00 to 8+08.84	LOCAL	15'	4'	4'	9'	50'	R-12	30 mph	18
BURNBRIDGE HUNT RD 0+00 to 2+65.68	CUL-DE-SAC	14'	4'	4'	3'	50'	R-12	30 mph	10
POTOMAC HUNT CT 0+00 to 4+49.09	CUL-DE-SAC	14'	4'	4'	3'	50'	R-12	30 mph	10
POTOMAC HUNT CT 0+00 to 8+82.81	CUL-DE-SAC	14'	4'	4'	3'	50'	R-12	30 mph	10

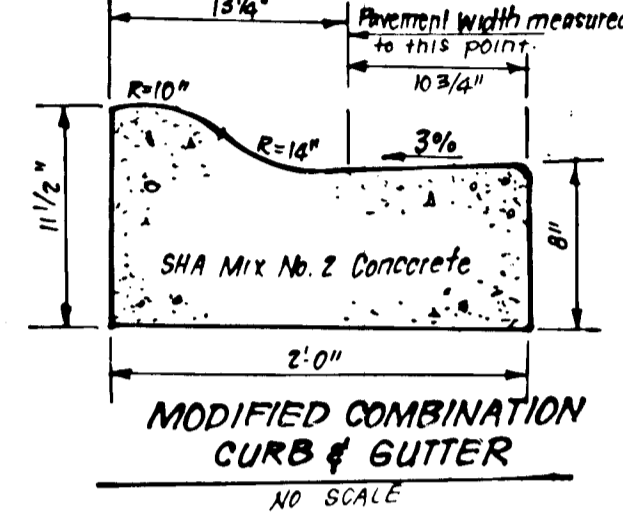
\* Transition Section from 19+62.30 to 21157.62



**STANDARD COMBINATION CURB & GUTTER**  
NO SCALE



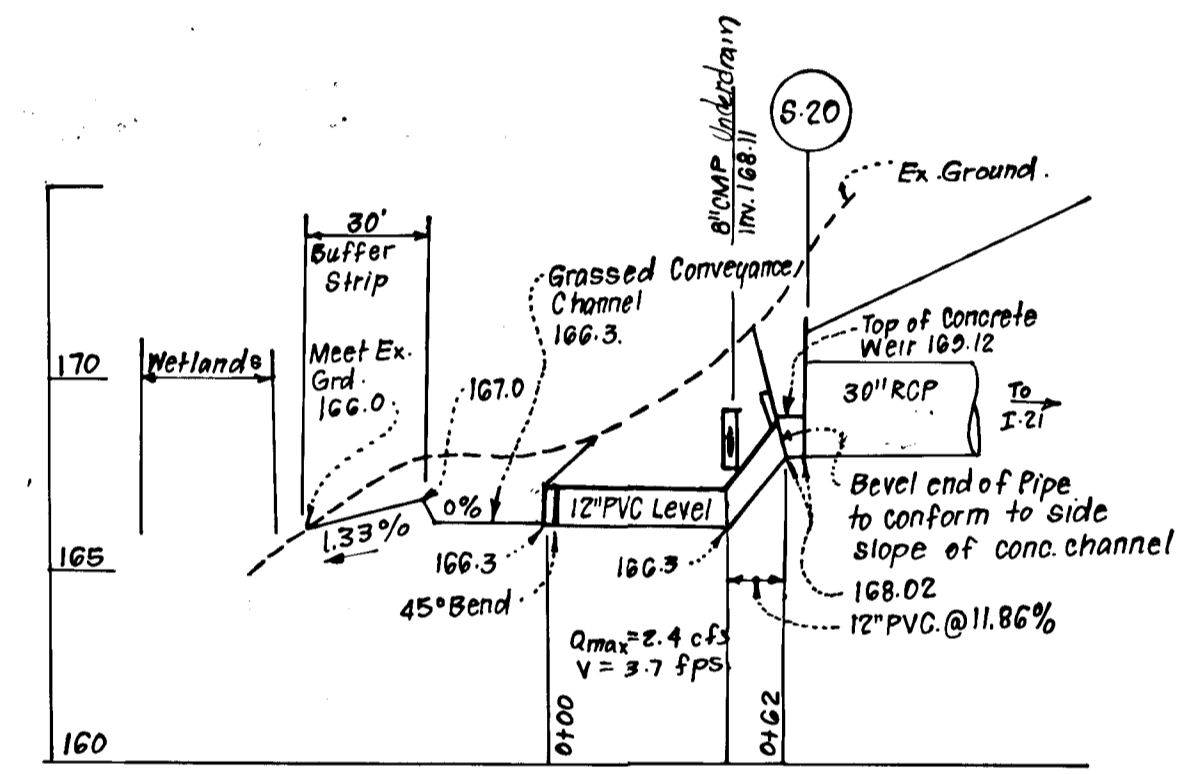
**REVERSE MODIFIED COMBINATION CURB & GUTTER**  
NO SCALE



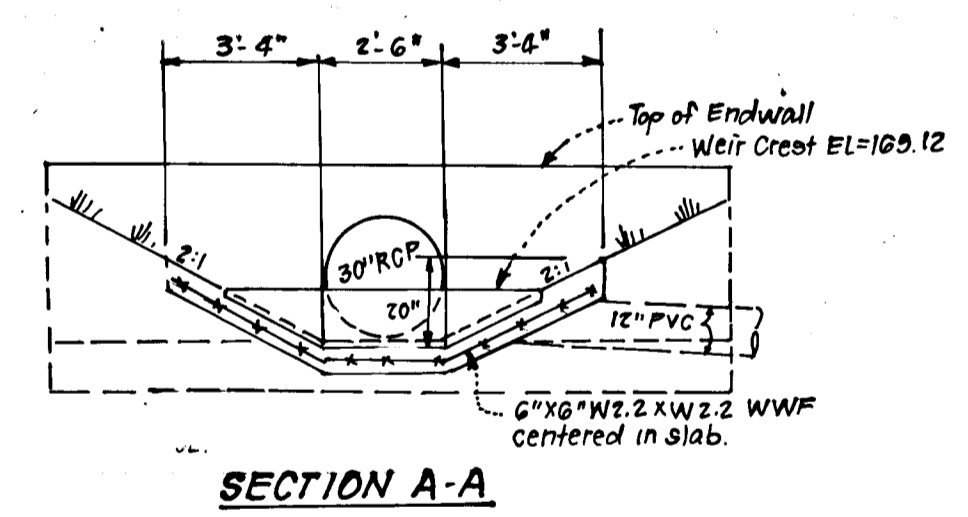
**MODIFIED COMBINATION CURB & GUTTER**  
NO SCALE

Bituminous Conc Surface	1 1/2"
Bituminous Conc Base	2 1/2"
Prime	
8" Crusher Run Base (Placed in 2 Courses)	8" or 6"
6" Dense Graded Stabilized Aggregate Base Course	

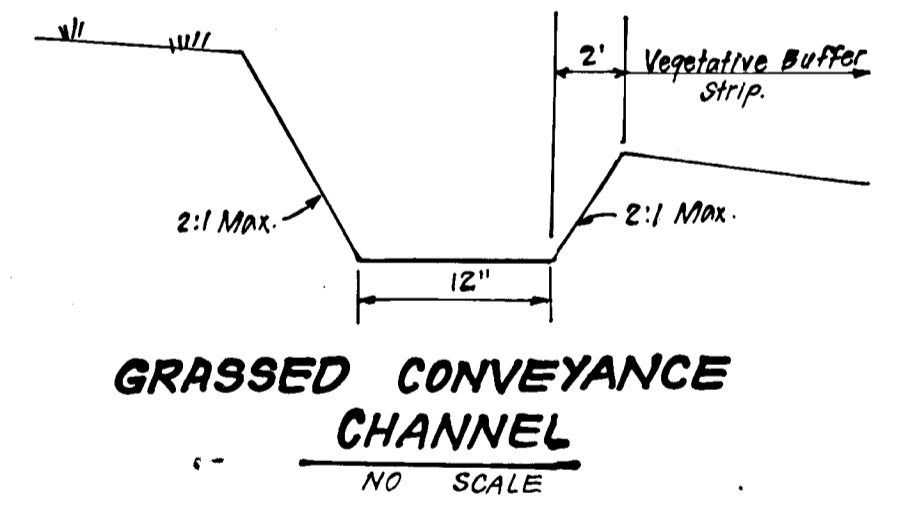
**ALTERNATE PAVING SECTION FOR PUBLIC ROADS**  
NO SCALE  
(SECTION P-2)



**PROFILE THROUGH LOW FLOW CONVEYANCE SYSTEM**  
SCALES: HORIZ. 1"=50'  
VERT. 1"=5'

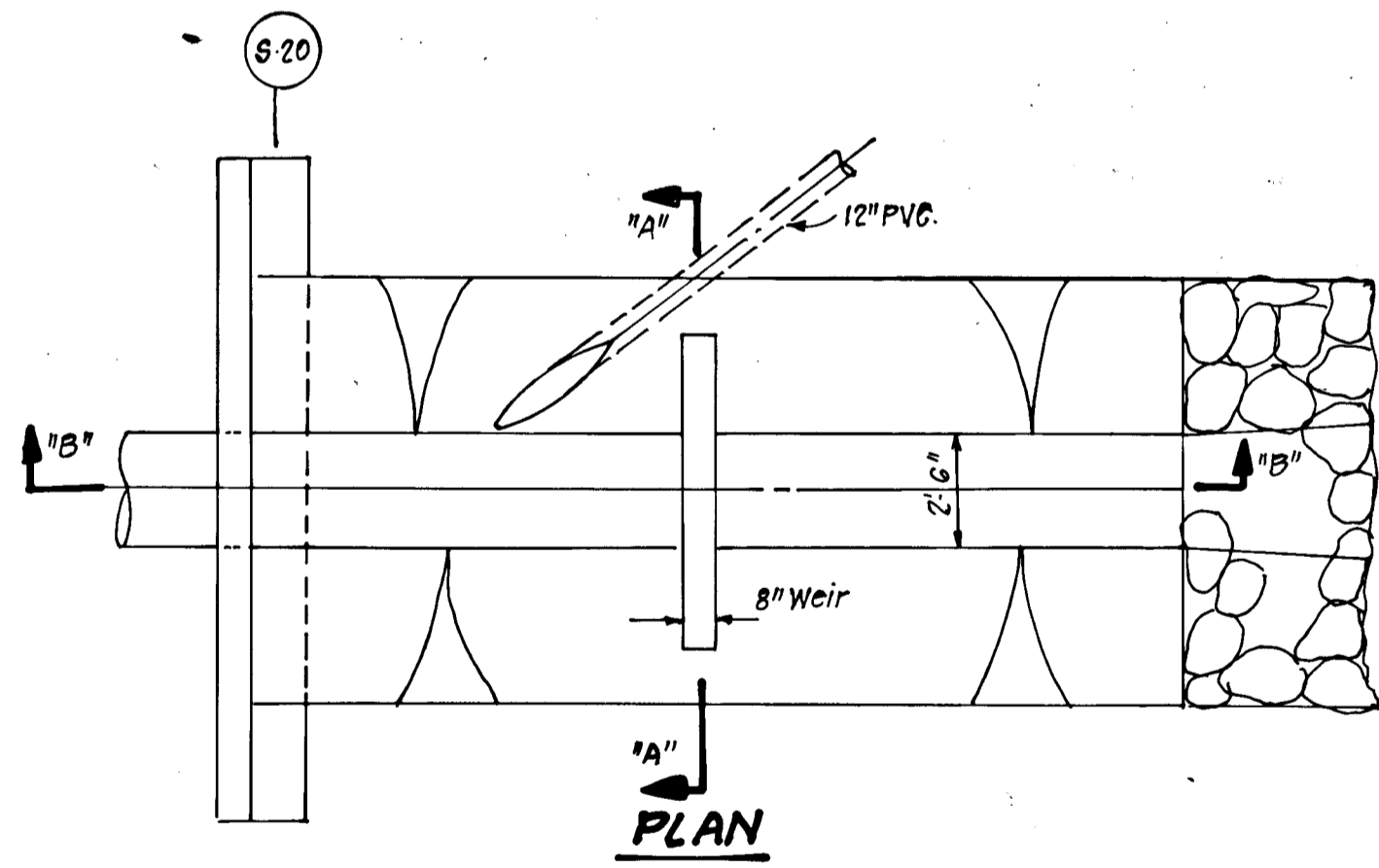


**SECTION A-A**

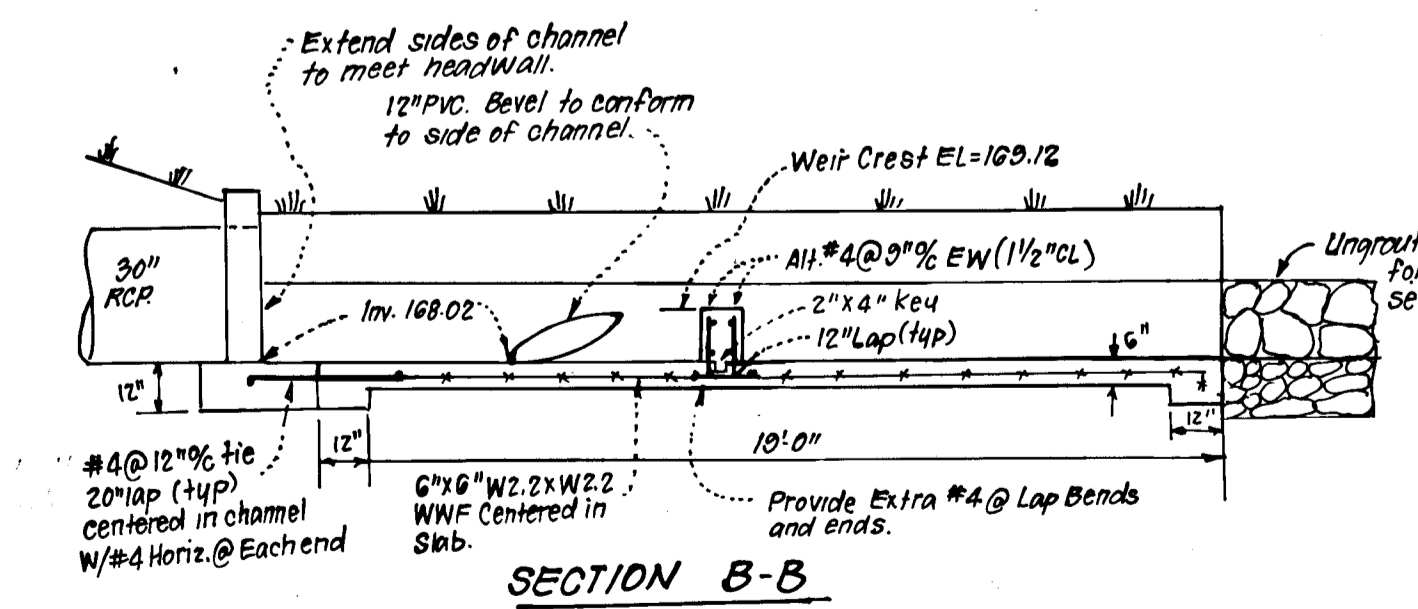


**GRASSED CONVEYANCE CHANNEL**  
NO SCALE

- CONCRETE CHANNEL NOTES.**
1. Fc = 3000 psi @ 28 days stone aggregate concrete
  2. fy = 60 ksi.
  3. Provide standard contraction joint where channel sides meet headwall.
  4. Chamfer (1X) all exposed edges.



**SECTION B-B**



**DETAIL - CONCRETE CHANNEL @ S-20**  
SCALE: 1/4" = 1'-0"

Reviewed for... HOWARD... S.C.D.  
Name  
and meet Technical Requirements  
Signature  
Date  
U.S. Soil Conservation Service  
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Robert W. Zielman 6/29/89  
APPROVED DATE

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary.  
Signature of Developer/Builder  
Date 4-12-89

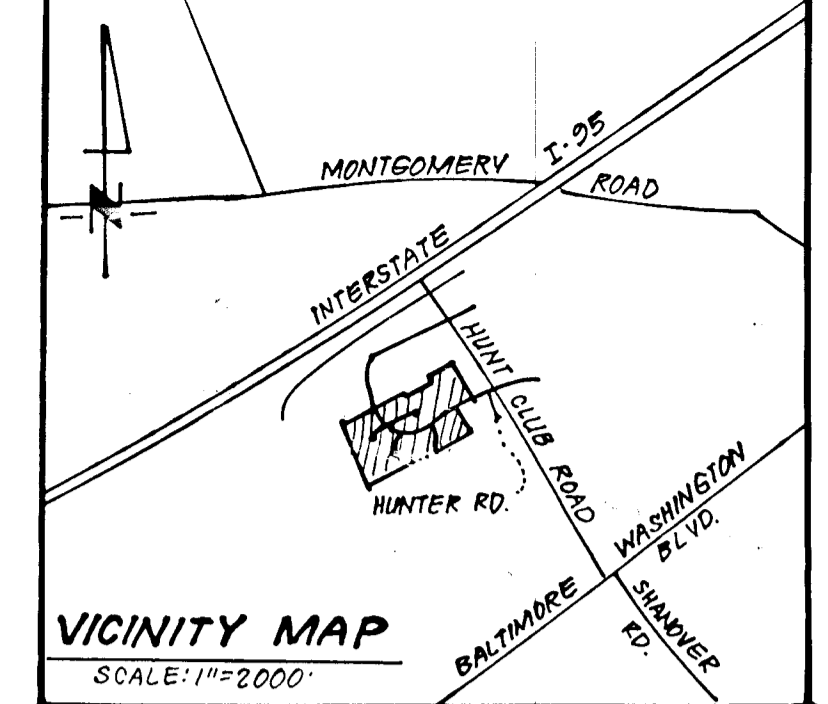
**ENGINEER'S CERTIFICATE**  
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.  
Signature of Engineer  
Date 4-13-89

18-26-89	Remove ref. wall - Details - rev. n.p.-trap @ S1-A, rev. paving section	1
Date	REVISION	NO
APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS		
Signature of Public Works		7/10/89
Signature of Bureau of Highways		7/26/89
Signature of Bureau of Engineering		7/26/89
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING		
Signature of Planning & Zoning		6/1/89
<b>CLARK • FINEROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO. • (301) 621-8100 - WASH.		
DESIGNED	ROAD CONSTRUCTION PLANS	SCALE
GLB	STORM DRAIN PROFILES & PAVING DETAILS	As Shown
DRAWN	<b>HUNT CLUB ESTATES</b>	DRAWING
KIW	SECTION 5 AREA 2	9 OF 11
CHECKED	1ST ELECTION DISTRICT	JOB NO.
GLB	HOWARD COUNTY, MARYLAND	86-113
DATE	FOR: FATUENT JOINT VENTURE	FILE NO.
4-12-89	% Diversified Housing Corp, Suite 420	86-113-D
	10705 Charter Dr. Columbia Md. 21044	





Reviewed for: *H.W.C.* S.C.D.  
 Name: *Howard County*  
 and meets Technical Requirements  
 Signature: *[Signature]* Date: *6/29/89*  
 U.S. Soil Conservation Service  
 THIS DEVELOPMENT PLAN IS APPROVED  
 FOR SOIL EROSION AND SEDIMENT  
 CONTROL BY THE HOWARD SOIL  
 CONSERVATION DISTRICT.



Approved: \_\_\_\_\_ Date: \_\_\_\_\_

**LEGEND:**  
 1. Existing Contour ————  
 2. Proposed Contour ————  
 3. Earth Dike ————  
 4. Gilt Fence ————

**TRAP #1 (ROST ST-IX)**  
 DRAINAGE AREA: 13.6 Ac. (Prop.) 14.4 Ac. (Ex.)  
 Storage Req'd = 26,100 cu ft  
 Storage Provided = 26,880 cu ft  
 Storm Crest Elev. = 167.0  
 Bottom Elev. = 162.0  
 Clean Out Elev. = 164.0  
 Top of Embankment Elev. = 171.0  
 Depth = 4'  
 Bottom Dimensions: 232' x 20'  
 a = 2.0' b = 18.0'  
 7:1 Side Slopes in Cut.

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary.

*William J. Dodd* 12-1-89  
 Signature of Developer/Builder Date



**ENGINEER'S CERTIFICATE**  
 I hereby 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.

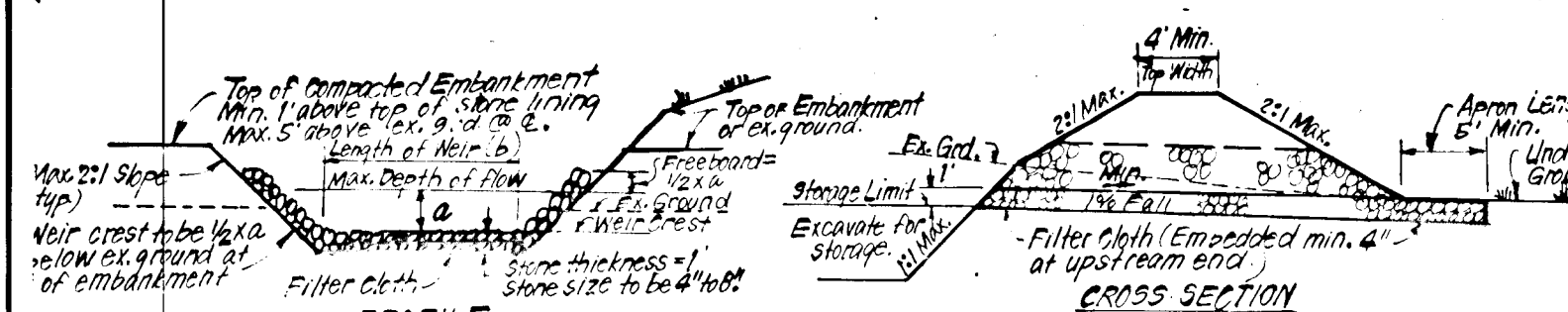
*G. Nelson Clark* 12-1-89  
 Signature Date

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
*[Signature]* 7/10/89  
 Chief, Land Development Division Date  
*Dravell W. Weiland* 7/26/89  
 Chief, Bureau of Highways Date  
*[Signature]* 7-26-89  
 Chief, Bureau of Engineering Date  
 APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
*[Signature]* 8/1/89  
 Chief, Division of Community Planning and Land Development Date

<b>CLARK • FINEFROCK &amp; SACKETT, INC.</b> ENGINEERS • PLANNERS • SURVEYORS 7135 MINSTREL WAY • COLUMBIA, MD. 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH			
DESIGNED	CLB	<b>ROAD CONSTRUCTION PLANS          SEDIMENT &amp; EROSION CONTROL PLAN          HUNT CLUB ESTATES</b> SECTION 5 AREA 2 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: PATIENT JOINT VENTURE 46 Overstreet Housing Corp., Suite 420 10705 Charter Dr. Columbia, Md. 21044	SCALE 1"=50'
DRAWN	KIW		DRAWING 10 OF 11
CHECKED	GLB		JOB NO. 86-113
DATE	4-12-89		FILE NO. 86-113-D
REVISION	1		

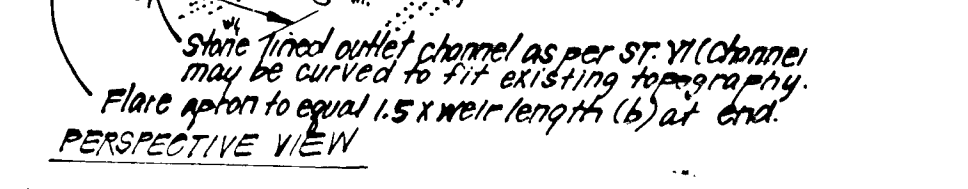
10.8.89 Add Yard Inlet, Revise Grading  
 12.28.89 Rev. pond grading - remove guard rail; ret. wall Hunter Rd.  
 Date REVISION No



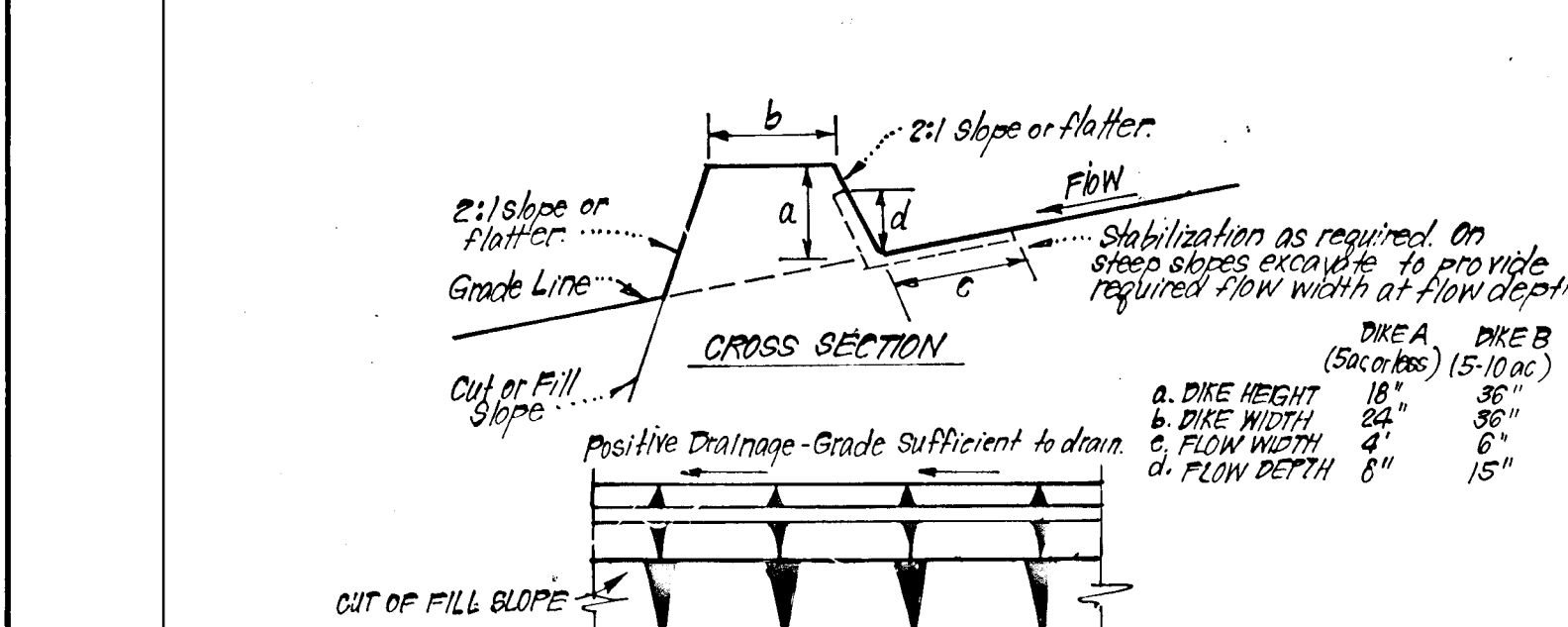


- CONSTRUCTION SPECIFICATIONS:**
- The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
  - The fill material for the embankment shall be free of roots or other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traveling with equipment while it is being constructed. Max. height of embankment shall be 5' measured at top of embankment.
  - All fill slopes shall be 2:1 or flatter's cut slopes 1:1 or flatter.
  - Elevation of the top of any dike directing water into trap must equal or exceed height of embankment.
  - Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of 1' below the lower weir crest.
  - Filter cloth shall be placed over the bottom and sides of the outlet channel prior to placement of stone. Sections of fabric must overlap at least 1' with section nearest the entrance placed on top. Fabric shall be embedded at least 6" into existing ground at entrance of outlet channel.
  - Stone used in the outlet channel shall be 4" to 8" riprap. To provide a filtering effect, a layer of filter cloth shall be embedded 1' back into the upstream face of the outlet stone or a 1" thick layer of 2" or finer aggregate shall be placed on the upstream face of the outlet.
  - Sediment shall be removed and site restored to its original dimensions when the sediment has accumulated to the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not grade.
  - The structure shall be inspected after each rain and repaired as needed.
  - Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
  - The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
  - Drainage area for this practice is limited to 15 acres or less.

**RIPRAP OUTLET SEDIMENT TRAP - ST-VI**  
NO SCALE

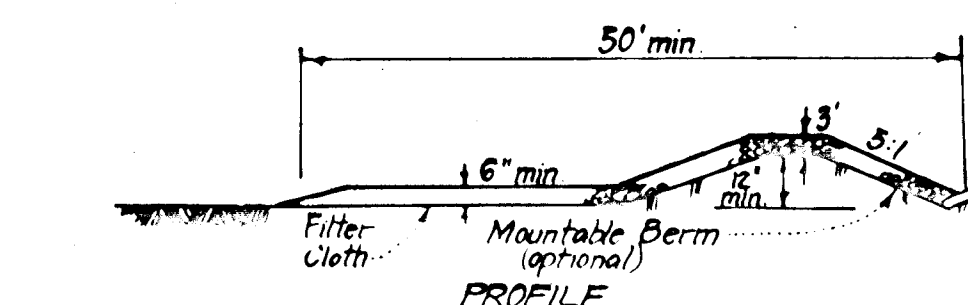


PERSPECTIVE VIEW

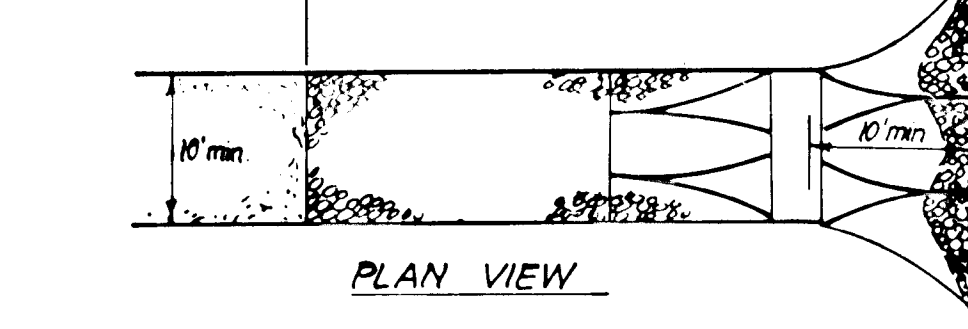


- CONSTRUCTION SPECIFICATIONS:**
- All dikes shall be constructed by earth-moving equipment.
  - All dikes shall have positive drainage to an outlet.
  - The width may be wider and side slopes may be flatter if desired, to facilitate crossing by construction traffic.
  - Field location should be adjusted as needed to utilize a stabilized erosion outlet.
  - Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either the dike channel or the drainage area above the dike are not adequately stabilized.
  - Stabilization shall be: (A) in accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as per chart below.
- | TYPE OF TREATMENT | CHANNEL GRADE | DIKE A                              | DIKE B  |
|-------------------|---------------|-------------------------------------|---|
| 1                 | 0.5 - 3.0%    | Seed & Straw Mulch                  | Seed or Straw Mulch                           |
| 2                 | 3.1 - 5.0%    | Seed & Straw Mulch                  | Seed & Straw Mulch or Excelsior Sod; 2" Stone |
| 3                 | 5.1 - 8.0%    | Seed & Straw Mulch or Sod; 2" Stone | Lined Rip Rap 4"-8" Stone                     |
| 4                 | 8.1 - 20.0%   | Lined Rip Rap 4"-8" Stone           | Engineering Design                            |
- A. Stone to be 2" Stone, or recycled concrete equivalent, in a layer at least 3" thick and be pressed into soil with construction equipment.  
B. Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.  
C. Approved equivalents can be substituted for any of the above materials.
7. Periodic inspection and required maintenance must be provided after each rain.

**EARTH DIKE DETAIL (E.D.)**  
NO SCALE



PROFILE



PLAN VIEW

- CONSTRUCTION SPECIFICATIONS:**
- Stone size - Use 2" stone, or reclaimed or recycled concrete equivalent.
  - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
  - Thickness - Not less than six (6) inches.
  - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
  - Filter Cloth - Will be placed over the entire area prior to placing of stone. Filter will not be required on a single family residence lot.
  - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a moundable berm with 5:1 slopes will be permitted.
  - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
  - Washing - Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
  - Periodic inspection and needed maintenance shall be provided after each rain.

**STABILIZED CONSTRUCTION ENTRANCE (SCE)**  
NO SCALE

**PERMANENT SEEDING NOTES**

- Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.
- Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:** In lieu of soil test recommendations, use one of the following schedules
- Preferred - Apply 2 tons per acre dolomitic limestone (92 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).
  - Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq ft) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq ft) before seeding. Harrow or disc into upper three inches of soil.
- Seeding -** For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (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 weeping 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 redisturbed where a short-term vegetative cover is needed.
- Seedbed Preparation:** Loosen upper three inches of soil by raking, discing or other acceptable means before seeding, if not previously loosened.
- Soil Amendments:** Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq ft)
- Seeding:** For periods March 1 thru April 30, and from August 15 thru November 15, seed with 25 bushel per acre of annual rye (3.2 lbs/1000 sq ft). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (.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 rate and methods not covered.

**SEDIMENT CONTROL NOTES**

- A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (992-2437)
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization 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 days as to all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51) sod (Sec. 54), temporary seeding (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

Total Area of Site	26.78 Acres
Area Disturbed	23.27 Acres
Area to be seeded or graded	2.27 Acres
Area to be vegetatively stabilized	21.00 Acres
Total Cut	30,350 Cu. yds
Total Fill	47,250 Cu. yds
Offsite waste/borrow area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County DWM sediment control inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- If houses are to be constructed on an "As-Sold" basis, at random, Single Lot Sediment Control as shown below shall be implemented. N/A
- All pipes to be blocked at the end of each day (see detail below). N/A
- The total amount of straw bale dikes/silt fence equals 340' L.F.

**CONSTRUCTION SEQUENCE**

	NO. OF DAYS
1. Obtain grading permit	2
2. Install SCE's and clear & grub for installation of sediment controls	2
3. Upon approval of sediment control inspector, de-water existing sediment basin (F-87-42) Remove barrel & riser. Regrade as shown on Plans Construct S-18 and S1-C and Barrel. Block 15" orifice. Install Trap as shown, E.D.'s & silt fence	35
4. Rough grade site	30
5. Install storm drainage & temp. divert flow into trap as shown. Do not block inlets. Delay const. of vegetative buffer strip.	10
6. Install utilities	30
7. Construct curb & gutter, paving, and sidewalks	30
8. Fine grade & stabilize site	30
9. Upon approval of the sediment control inspector, flush storm drain system, remove sediment control measures, complete storm drainage and stabilize	5
10. Restore areas near sediment traps to final grade utilizing silt fence as necessary. All disturbed areas to be immediately stabilized	2
11. Construct vegetative buffer strip. Convert sediment Basin to SWM facility: <ol style="list-style-type: none"> <li>Unblock 15" orifice</li> <li>Clean out / excavate to final elevations &amp; stabilize.</li> </ol>	

\* Maintain Temp. E.D. to convey runoff to Sediment Basin as shown until grading of Potomac Hunt Court is complete.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

*[Signature]* 7/10/89 Date

*[Signature]* 7/10/89 Date

*[Signature]* 7-21-89 Date

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING.

*[Signature]* 8/1/89 Date

Reviewed for: *[Signature]* S.C.D.  
Name: *[Signature]*  
Signature: *[Signature]* Date: 6/29/89  
U.S. Soil Conservation Service

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

*[Signature]* 6/29/89  
Approved Date

**DEVELOPER'S CERTIFICATE**

I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. 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 or their authorized agents, as are deemed necessary.

*[Signature]* 12-1-88  
Signature of Developer/Planner Date

**ENGINEER'S CERTIFICATE**

I hereby 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.

*[Signature]* 12-1-88  
Signature of Engineer Date

**CLARK • FINEFROCK & SACKETT, INC.**  
ENGINEERS • PLANNERS • SURVEYORS

7135 MINSTREL WAY • COLUMBIA, MD 21045 • (301) 381-7500 - BALTO • (301) 621-8100 - WASH

DESIGNED	GLB	SCALE	1"=50'
DRAWN	GLB	DRAWING	11 OF 11
CHECKED	KIW	JOB NO.	86-113
DATE	GLB	FILE NO.	86-113-D

4-12-89

ROAD CONSTRUCTION PLANS  
SEDIMENT & EROSION CONTROL DETAILS  
**HUNT CLUB ESTATES**

SECTION 5 AREA 2  
1ST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FOR: PATUXENT JOINT VENTURE  
56 Diversified Housing Corp., Suite 420  
10705 Charter Dr. Columbia Md. 21045