APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86

TURF VALLEY OVERLOOK

SECTION ONE AREA ONE

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

1.) ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS FOR CONSTRUCTION.
2.) ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
3.) ALL INLETS SHALL BE HOWARD COUNTY STANDARDS UNLESS OTHERWISE SHOWN. ALL "A" INLETS SHALL BE DEPRESSED.
4.) STORM DRAIN TRENCHES WITHIN ROAD RIGHTS-OF-WAYS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
5.) ANY DAMAGE TO PUBLIC RIGHTS-OF-WAYS OR PAVING WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE
6.) CONTRACTOR TO NOTIFY THE HOWARD COUNTY DEPT. OF INSPECTION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE 792-7272
7) ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION.

BENCH MARKS

B.M.#6 — ELEV. 477.09
10d NAIL IN B.G. & E. POLE #192043 IN CENTER OF MEDIAN OF RT. 40, 100' WEST OF TRAVERSE POINT 'D-1'.
*SEE SHEET NUMBER 2 OF 13 FOR LOCATION.

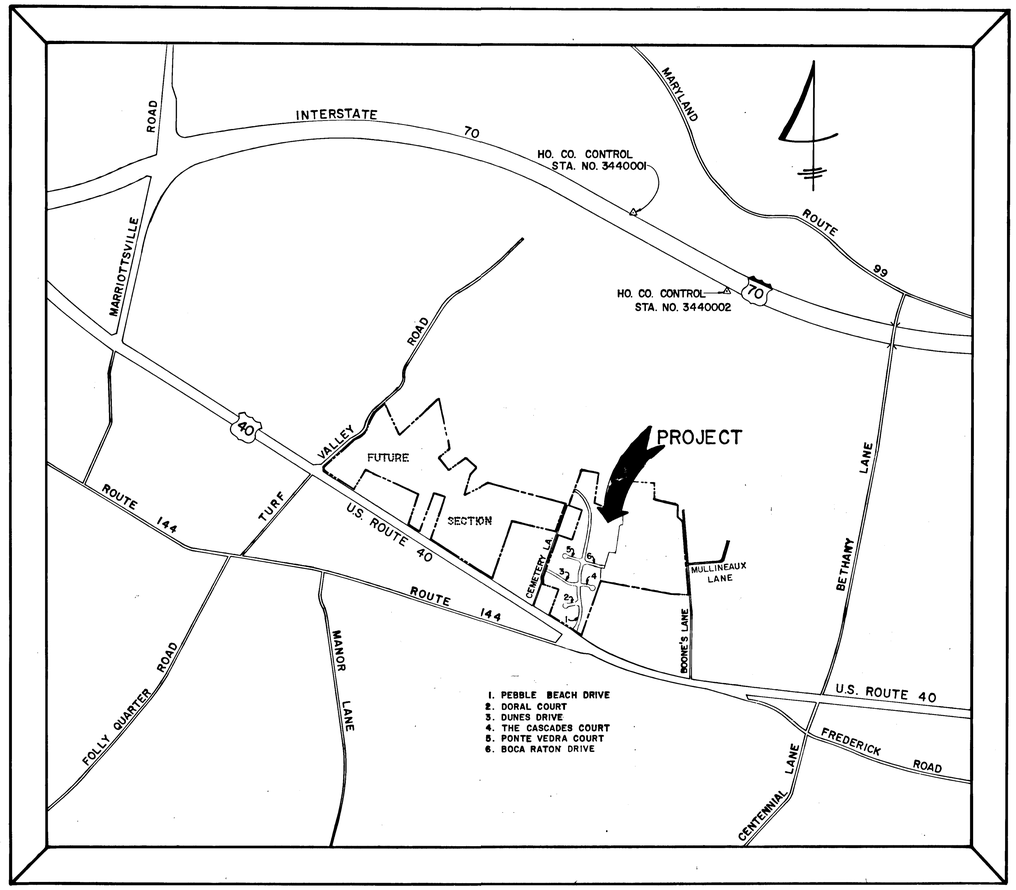
B.M. 'A' — ELEV. 441.24
P.K. NAIL SET IN ROOT OF 24" TREE, 30'± WEST OF TRAVERSE POINT D-75'.
*SEE SHEET NUMBER 6 OF 13 FOR LOCATION.

STREET LIGHTS

✧-TYPE 'A'
TWO (2) 175-WATT "MODERN" MERCURY VAPOR LAMP POST TOP FIXTURES ON A 14-FOOT GRAY FIBERGLASS POLE LOCATED 2-10' FROM BACK OF CURB AT THE FOLLOWING LOCATIONS:
1.) STA. 18+50 LEFT PEBBLE BEACH DRIVE.
2.) STA. 23+00 LEFT PEBBLE BEACH DRIVE.

✧-TYPE 'B'
THREE (3) 250-WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURES ON A 25-FOOT GALVANIZED STEEL POLE LOCATED NO LESS THAN 6' FROM EDGE OF THE PAVEMENT AT THE FOLLOWING LOCATIONS:
1.) SOUTH CORNER OF PEBBLE BEACH DRIVE AND DORAL COURT.
2.) NORTH CORNER OF PEBBLE BEACH DRIVE AND DUNES DRIVE.
3.) NORTH CORNER OF PONTE VEDRA COURT AND PEBBLE BEACH DRIVE.

✧-TYPE 'C'
ONE (1) 250-WATT MERCURY VAPOR LAMP PENDANT MOUNTED FIXTURES ON A 30-FOOT GALVANIZED STEEL POLE LOCATED NO LESS THAN 6' FROM EDGE OF THE PAVEMENT AT THE FOLLOWING LOCATION:
1.) WESTERN CORNER OF PEBBLE BEACH DRIVE AND U.S. RT. 40.



VICINITY MAP
SCALE: 1" = 1200'

INDEX OF SHEETS

1) TITLE SHEET
2) PEBBLE BEACH DRIVE – PLAN AND PROFILE, U.S. ROUTE 40 – PLAN
3) PEBBLE BEACH DRIVE – PLAN AND PROFILE, DORAL COURT – PLAN
4) PEBBLE BEACH DRIVE – PLAN, THE CASCADES COURT – PLAN AND PROFILE, DORAL COURT – PROFILE, DUNES DRIVE – PLAN
5) PEBBLE BEACH DRIVE – PLAN AND PROFILE, PONTE VEDRA COURT – PLAN, BOCA RATON DRIVE – PLAN. DUNES DRIVE – PROFILE
6) PEBBLE BEACH DRIVE – PLAN, PONTE VEDRA COURT – PROFILE, BOCA RATON DRIVE – PROFILE
7) PARABOLIC CHANNEL – PROFILE & DESIGN DATA, ROADWAY SECTIONS, DETAILS, AND NOTES.
8) DRAINAGE AREA MAP.
9) STORM DRAIN PROFILES.
10) STORM DRAIN PROFILES.
11) SEDIMENT CONTROL BASIN – PLAN, PROFILE, AND DETAILS.
12) STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN, NOTES & DETAILS.
13) STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN, NOTES & DETAILS.

FISHER, COLLINS, AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE (301) 461-2855

STATE OF MARYLAND — CHARLES W. FISHER — REGISTERED PROFESSIONAL ENGINEER

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP C/O
HOWARD COUNTY LAND SERVICES, INC.
10176 Baltimore National Pike · Suite 202 · Ellicott City, MD 21043 · 301-465-1643

265

P86-47 S 86-20

AS-BUILT 10-6-88 F 86-229

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

CHARLES J. CROVO, SR. — DATE 6/26/86

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ONSITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

U.S. SOIL CONSERVATION DISTRICT — DATE 9-17-86

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 9/17/86

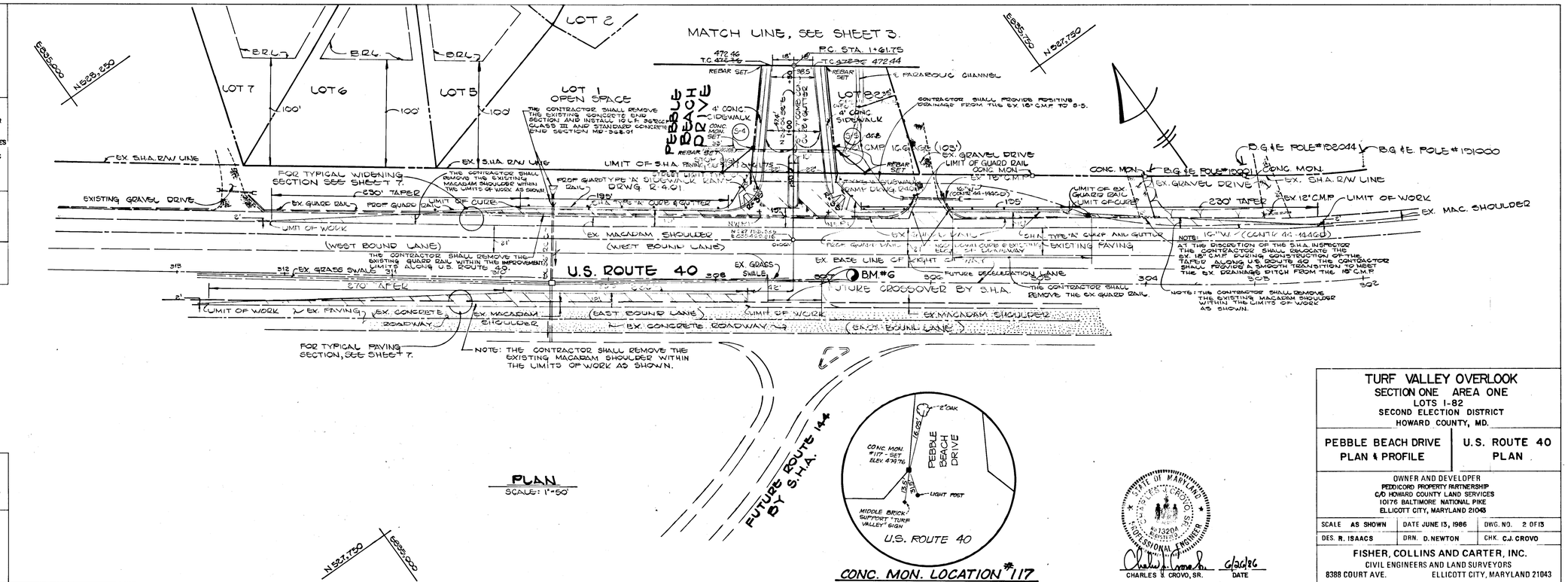
APPROVED
DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING

CHIEF, DEVELOPMENT PLANNING AND ZONING ADMINISTRATION — DATE 9-18-86

PLAN		BY	DATE
SURVEYED			
PLOTTED			
RI-GRADING CHECKED			
BL-DR/WAY CHECKED			
NOTE BOOK NO.			



PLAN
SCALE: 1"=50'

TURF VALLEY OVERLOOK	
SECTION ONE AREA ONE LOTS 1-82 SECOND ELECTION DISTRICT HOWARD COUNTY, MD.	
PEBBLE BEACH DRIVE PLAN & PROFILE	U.S. ROUTE 40 PLAN

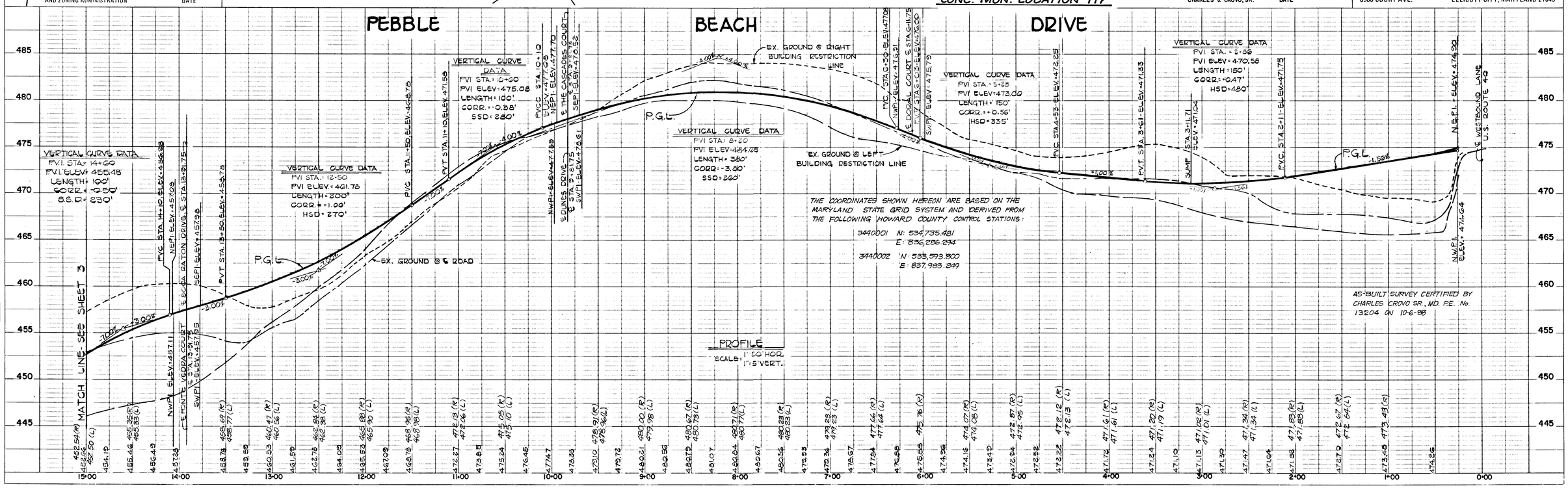
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 13, 1986	DWG. NO. 2 OF 13
DES. R. ISAACS	DRN. D. NEWTON	CHK. C.J. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — No. 13204 — CHARLES J. CROVO

CHARLES J. CROVO, SR. — DATE 6/26/86



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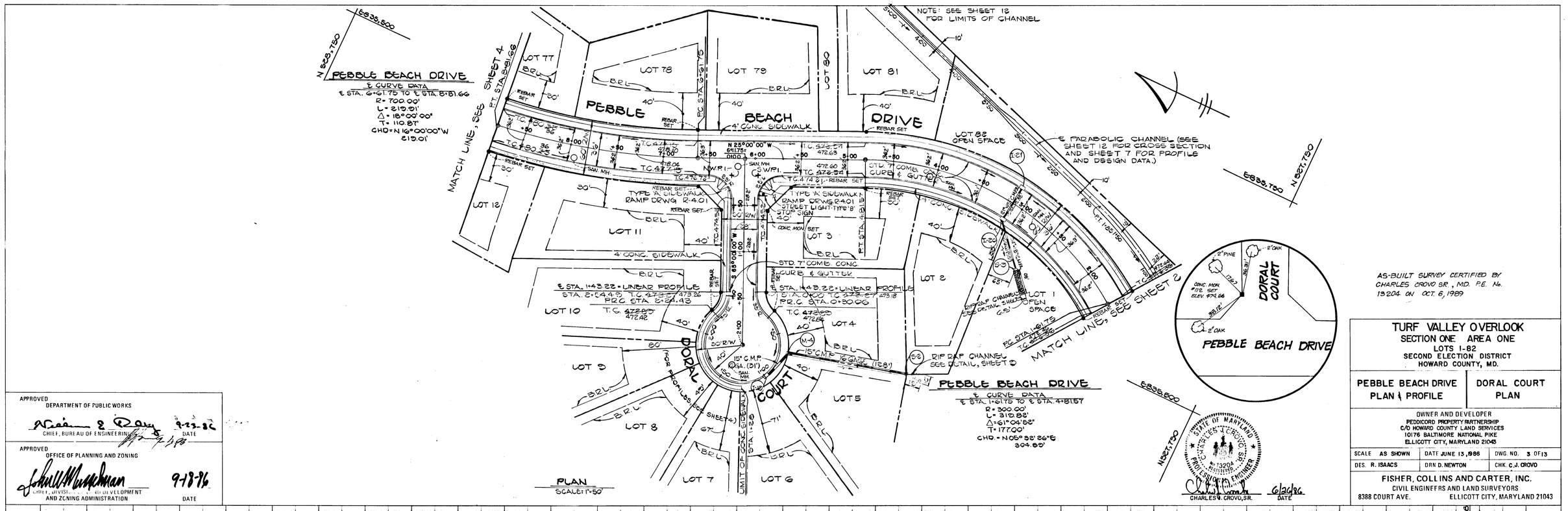
AS-BUILT 10-6-88

F86-229



AS-BUILT SURVEY CERTIFIED BY CHARLES CROVO SR., MD. P.E. No. 13204 ON OCT. 6, 1989

TURF VALLEY OVERLOOK
SECTION ONE AREA ONE
LOTS 1-82
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

PEBBLE BEACH DRIVE PLAN & PROFILE	DORAL COURT PLAN

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 13, 1986	DWG. NO. 3 OF 13
DES. R. ISAACS	DRN D. NEWTON	CHK. C.J. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND — CHARLES J. CROVO — No. 13204 — REGISTERED PROFESSIONAL ENGINEER

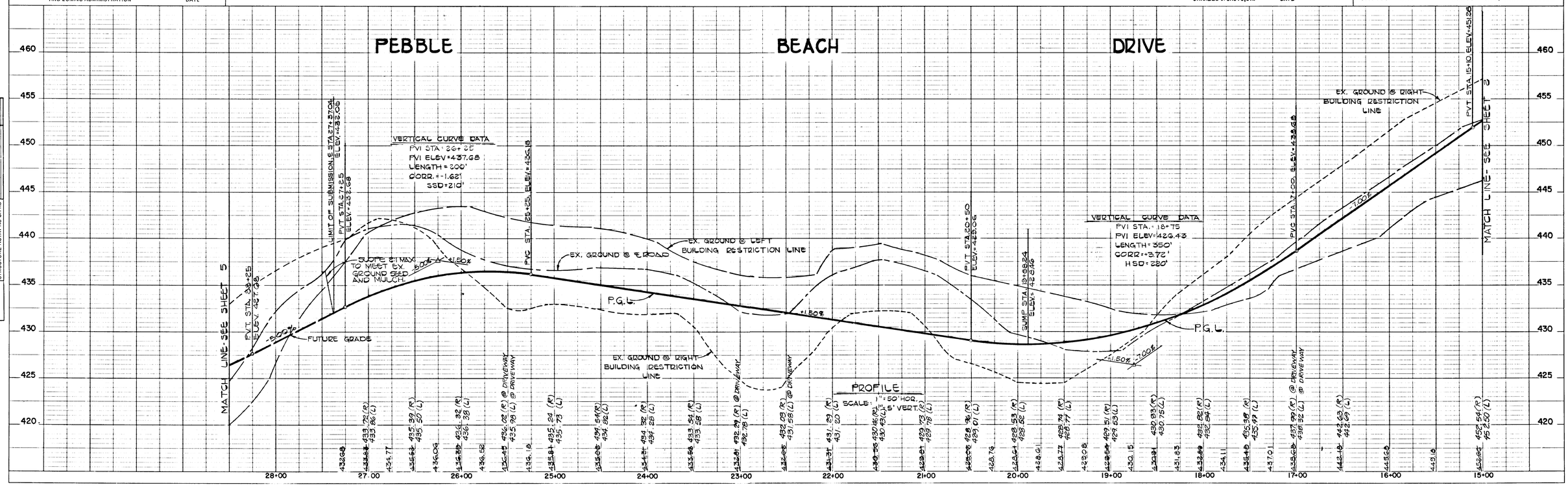
CHARLES J. CROVO, SR. — DATE 6/26/86

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86

PLAN	NOTE BOOK NO.	SURVEYED. PLOTTED. DRAFTED. ALIGNMENT CHECKED. RT. OF WAY CHECKED.	BY	DATE

PROFILE	NOTE BOOK NO.	SURVEYED. PLOTTED. GRADES CHECKED. B.M.'s NOTED. STRUCTURE NOTATIONS CHKD.	BY	DATE



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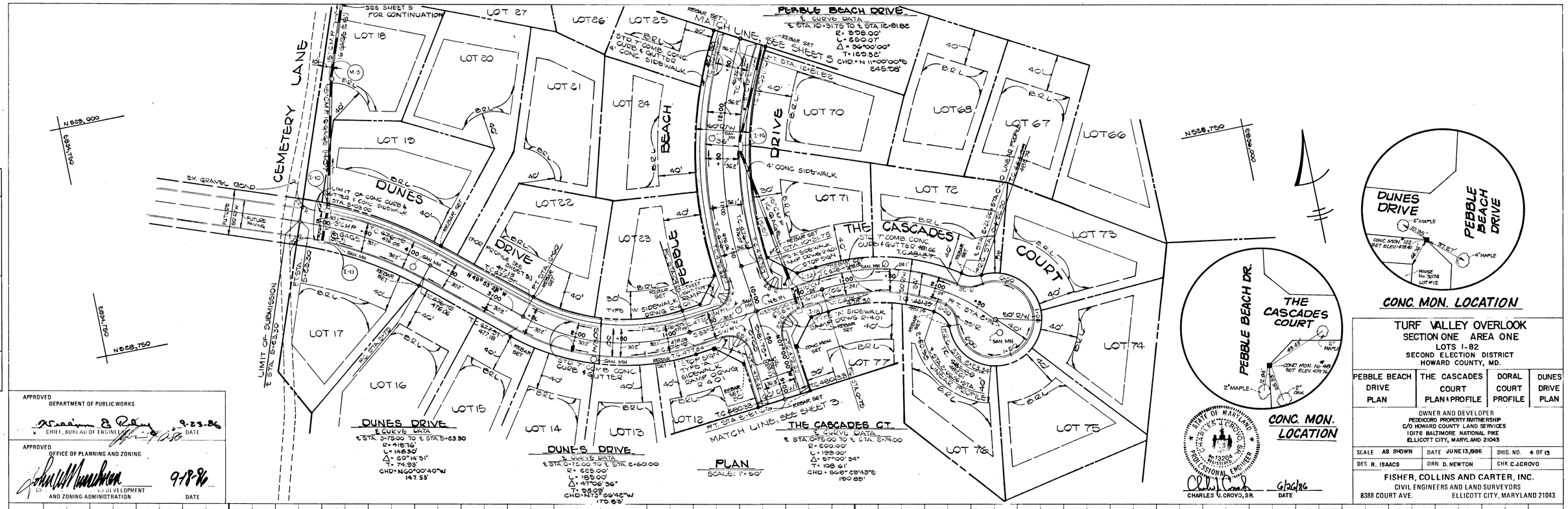
AS-BUILT 10-6-88

F86-229



TURF VALLEY OVERLOOK
SECTION ONE AREA ONE
LOTS 1-82
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

PEBBLE BEACH DRIVE PLAN	THE CASCADES COURT PLAN & PROFILE	DORAL COURT PROFILE	DUNES DRIVE PLAN

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 13, 1986	DWG. NO. 4 OF 13
DES. R. ISAACS	DRN. D. NEWTON	CHK. C.J.CROVO

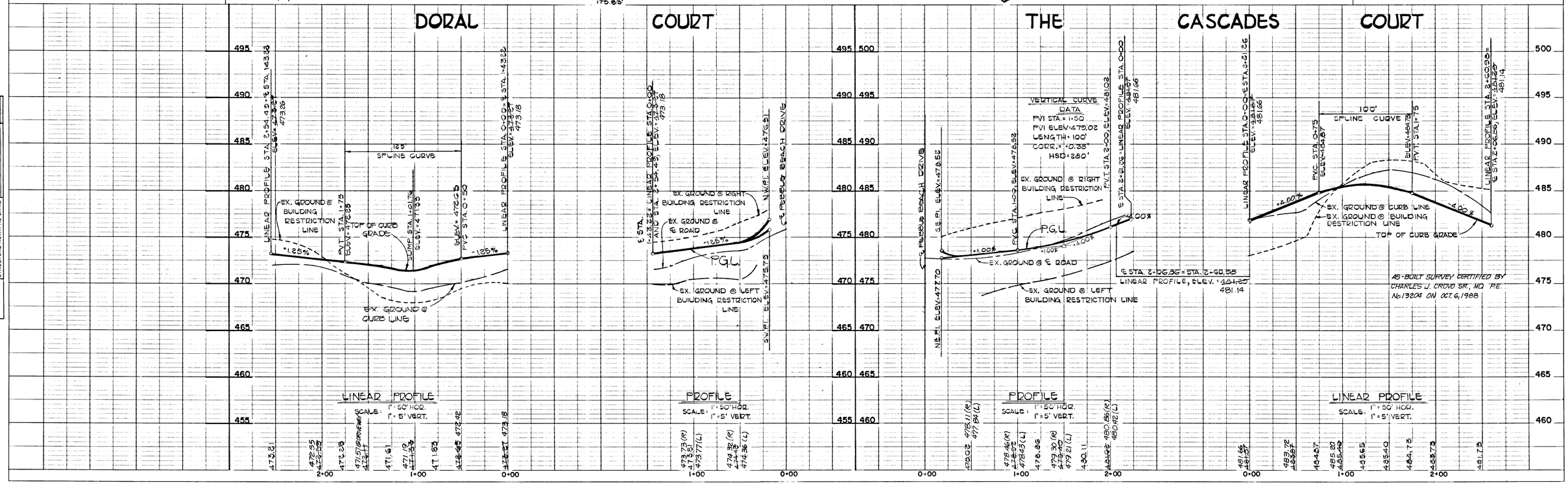
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
NOTE BOOK		
NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M.'S NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		



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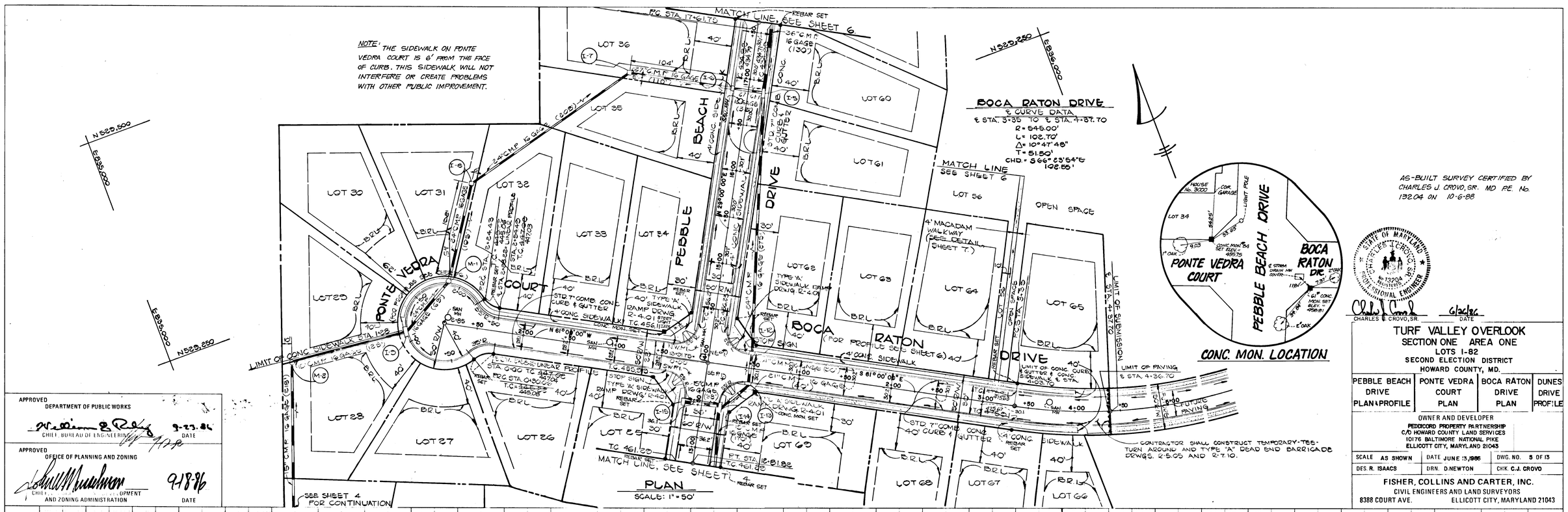
AS-BUILT 10-6-88

F 86-229

NOTE: THE SIDEWALK ON PONTE VEDRA COURT IS 6' FROM THE FACE OF CURB. THIS SIDEWALK WILL NOT INTERFERE OR CREATE PROBLEMS WITH OTHER PUBLIC IMPROVEMENT.



APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING
CHIEF, DEVELOPMENT ... AND ZONING ADMINISTRATION — DATE 9-18-86

TURF VALLEY OVERLOOK
SECTION ONE AREA ONE
LOTS 1-82
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

PEBBLE BEACH DRIVE PLAN & PROFILE	PONTE VEDRA COURT PLAN	BOCA RATON DRIVE PLAN	DUNES DRIVE PROFILE

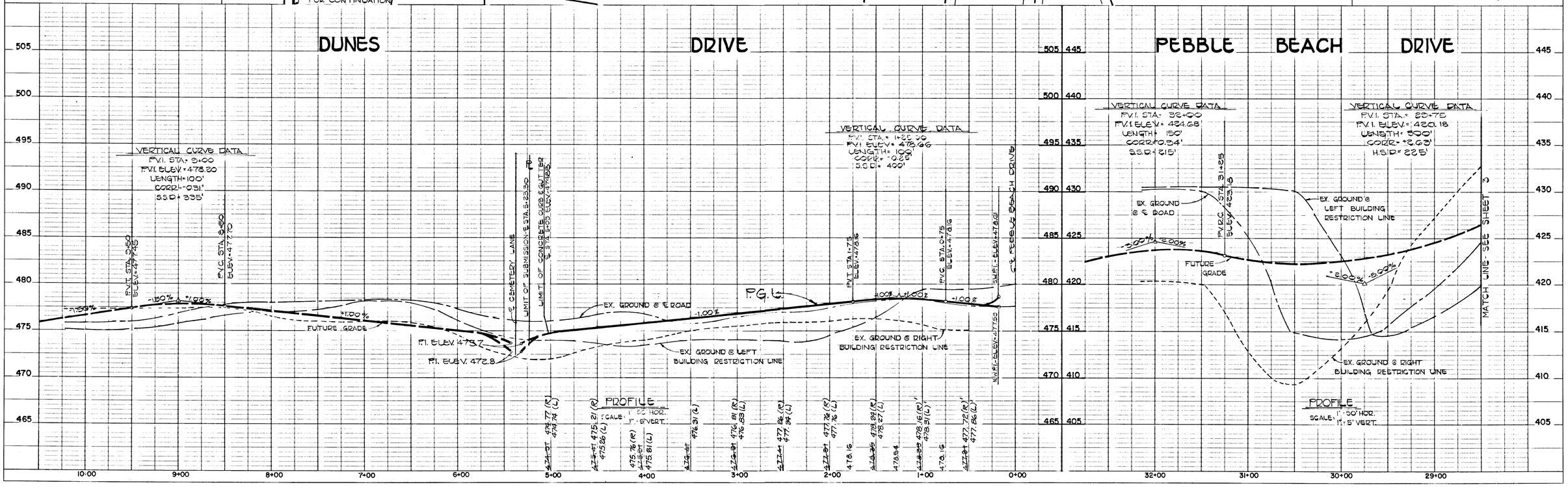
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 13, 1986	DWG. NO. 5 OF 13
DES. R. ISAACS	DRN. D. NEWTON	CHK. C.J. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

PLAN — SURVEYED / PLOTTED / GRADES CHECKED / R/W & PROPERTY CHECKED — BY — DATE — NOTE BOOK — NO.

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / STRUCTURE NOTATIONS CHKD. — BY — DATE — NOTE BOOK — NO.



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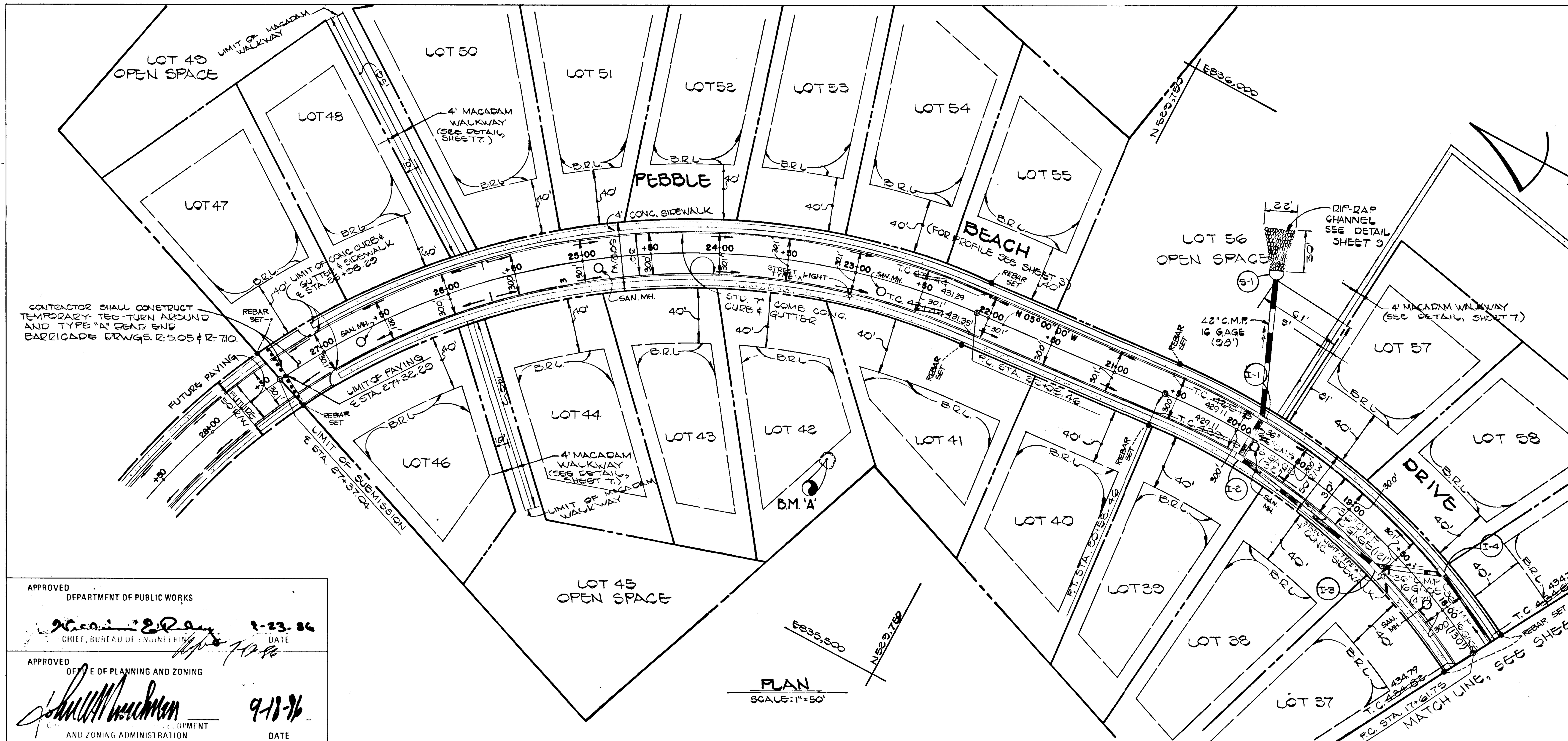
AS-BUILT 10-6-88

F 86-229

PEBBLE BEACH DRIVE
℄ CURVE DATA
℄ STA. 17+61.75 TO ℄ STA. 20+58.46
R= 500.00'
L= 296.71'
Δ= 34°00'00"
T= 152.87'
CHD= N 12°00'00"E 292.37'

PEBBLE BEACH DRIVE
℄ CURVE DATA
℄ STA. 22+08.46 TO ℄ STA. 27+37.04
R= 530.00'
L= 528.58'
Δ= 57°08'31"
T= 288.62'
CHD= N 33°34'15"W 506.54'



AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, SR. MD. P.E. No. 13204 ON 10-6-88

APPROVED DEPARTMENT OF PUBLIC WORKS
[signature] 8-23-86
CHIEF, BUREAU OF ENGINEERING — DATE
[signature] 7-17-86

APPROVED OFFICE OF PLANNING AND ZONING
[signature] 9-18-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

[Seal: STATE OF MARYLAND — CHARLES J. CROVO, SR. — No. 13204 — REGISTERED PROFESSIONAL ENGINEER]
[signature] 6/26/86
CHARLES J. CROVO, SR. — DATE

TURF VALLEY OVERLOOK
SECTION ONE AREA ONE
LOTS 1-82
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

PEBBLE BEACH DRIVE PLAN	PONTE VEDRA COURT PROFILE	BOCA RATON DRIVE PROFILE

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 13, 1986	DWG. NO. 6 OF 13
DES. R. ISAACS	DRN. D. NEWTON	CHK. C.J. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

AS-BUILT 10-6-88

F 86-229

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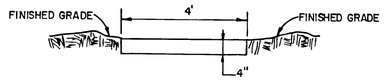
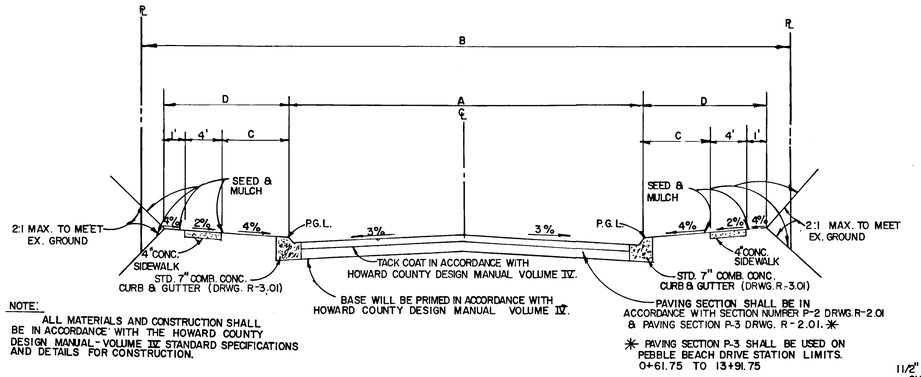


MACADAM WALKWAY DETAIL

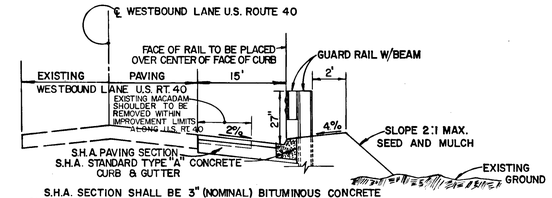
NO SCALE



NOTE:
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

TYPICAL ROADWAY SECTION

NO SCALE

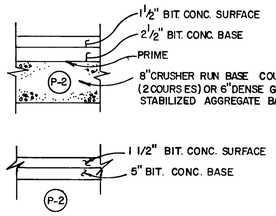


S.H.A. SECTION SHALL BE 3" (NOMINAL.) BITUMINOUS CONCRETE SURFACE IN 2-1 1/2" LAYERS UTILIZING A SN MIXTURE PLUS 5" (NOMINAL.) BITUMINOUS CONCRETE BASE (OR 5" SAND ASPHALT BASE) ON ONE OF THE FOLLOWING:

4" CR-6, OR
4" DENSE GRADED AGGREGATE BASE, OR
6" GRAVEL

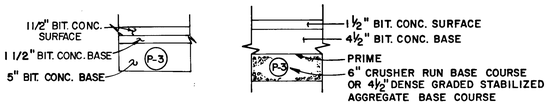
TYPICAL WIDENING SECTION ALONG U.S. ROUTE 40

NO SCALE



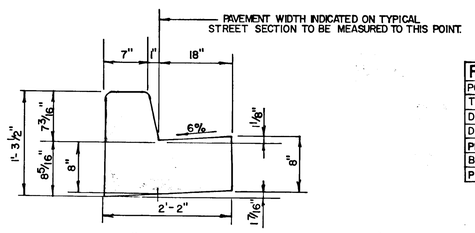
PAVING SECTION P-2

NO SCALE



PAVING SECTION P-3

NO SCALE



STANDARD SLOPE 7" COMB. CONC. CURB & GUTTER

NO SCALE

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	A	B	C	D	℄ STATION LIMITS
PONTE VEDRA COURT	CUL-DE-SAC	30 M.P.H.	R-20	28'	50'	4'	9'	0+00 TO 2+28.22
THE CASCADES COURT	CUL-DE-SAC	30 M.P.H.	R-20	24'	50'	4'	9'	0+00 TO 2+21.26
DORAL COURT	CUL-DE-SAC	30 M.P.H.	R-20	28'	50'	4'	9'	0+00 TO 1+43.22
DUNES DRIVE	LOCAL ROAD	30 M.P.H.	R-20	30'	50'	4'	9'	0+00 TO 5+22.53
PEBBLE BEACH DRIVE	LOCAL ROAD	30 M.P.H.	R-20	30'	50'	4'	9'	13+91.75 TO 27+32.29
BOCA RATON DRIVE	LOCAL ROAD	30 M.P.H.	R-20	30'	50'	4'	9'	0+00 TO 4+36.70
PEBBLE BEACH DRIVE	MINOR COLLECTOR	35 M.P.H.	R 20	36'	60'	7'	12'	1+61.75 TO 13+91.75

STATE OF MARYLAND
CHARLES J. CROVO
No. 13206
REGISTERED
PROFESSIONAL ENGINEER

CHARLES J. CROVO, SR. — DATE 6/26/86

TURF VALLEY OVERLOOK

SECTION ONE AREA ONE
LOTS 1-82.
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

PARABOLIC CHANNEL PROFILE AND DESIGN DATA	ROADWAY SECTIONS, NOTES, AND DETAILS

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

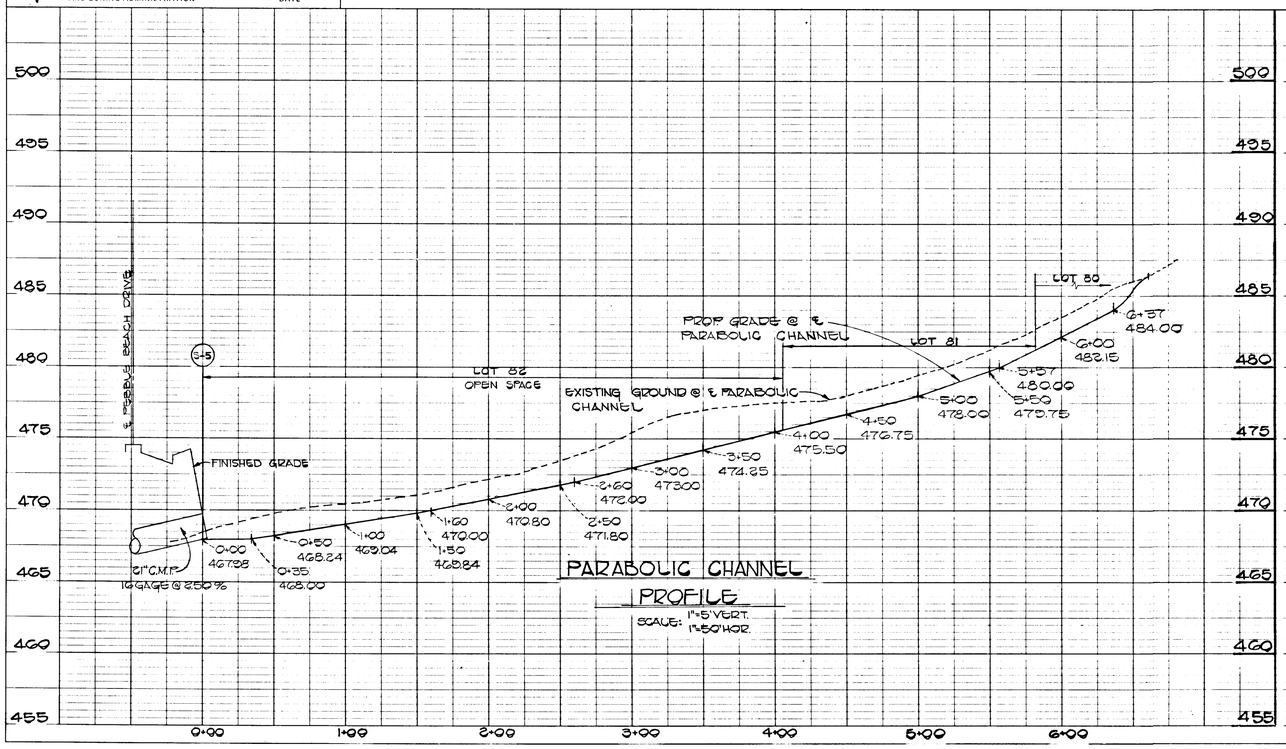
SCALE AS SHOWN	DATE JUNE 13, 1986	DWG. NO. 7 OF 13
DES. R. ISAACS	DRN. D. NEWTON	CHK. C.J. CROVO

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 7-23-86

APPROVED
OFFICE OF PLANNING AND ZONING
DIRECTOR OF PLANNING AND ZONING ADMINISTRATION — DATE 9-18-86

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE



PARABOLIC CHANNEL PROFILE

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

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHKD.
BY
DATE

PARABOLIC CHANNEL DESIGN DATA

℄ STATION LIMITS	Q	Vmax.	SLOPE	Q/T	T	d
0+35 TO 1+60	10.68 c.f.s.	3.0 ft/sec.	1.60%	1.85	5.77'	1.1'+0.3'=1.4'
1+60 TO 2+60	10.68 c.f.s.	3.0 ft/sec.	2.00%	1.65	6.47'	1.0'+0.3'=1.3'
2+60 TO 3+28	10.68 c.f.s.	3.0 ft/sec.	2.50%	1.45	7.37'	0.9'+0.3'=1.2'
3+28 TO 5+00	4.28 c.f.s.	3.0 ft/sec.	2.50%	1.45	2.91'	0.9'+0.3'=1.2'
5+00 TO 5+57	4.28 c.f.s.	3.0 ft/sec.	3.50%	1.20	3.53'	0.75'+0.3'=1.05'
5+57 TO 6+37	4.28 c.f.s.	3.0 ft/sec.	5.00%	0.95	4.51'	0.65'+0.3'=0.95'

265

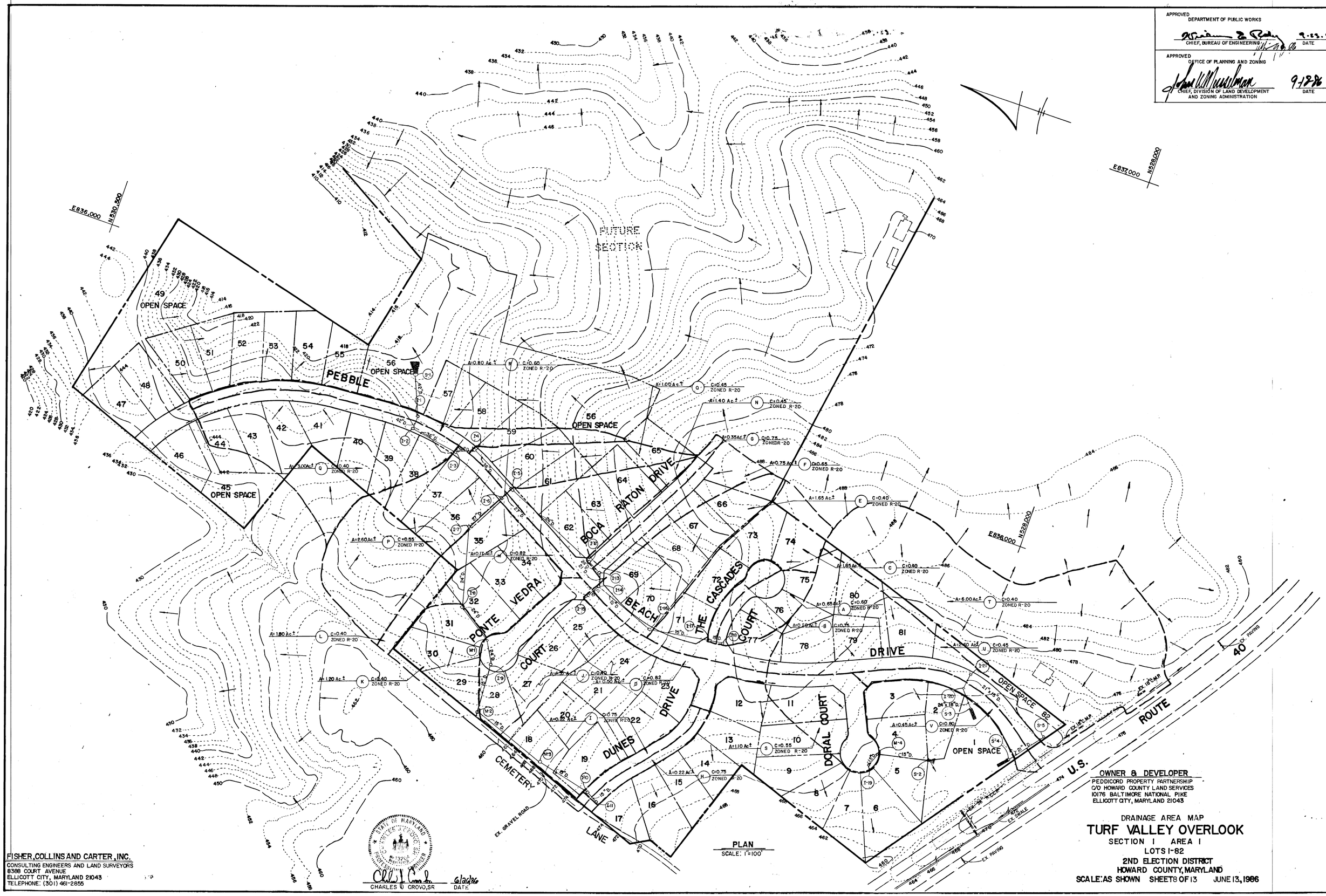
AS-BUILT 10-6-88 F 86-229

APPROVED
DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86



PLAN
SCALE: 1"=100'

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

STATE OF MARYLAND — CHARLES U. CROVO — No. 7324 — PROFESSIONAL ENGINEER

CHARLES U. CROVO, SR — DATE 6/20/86

OWNER & DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

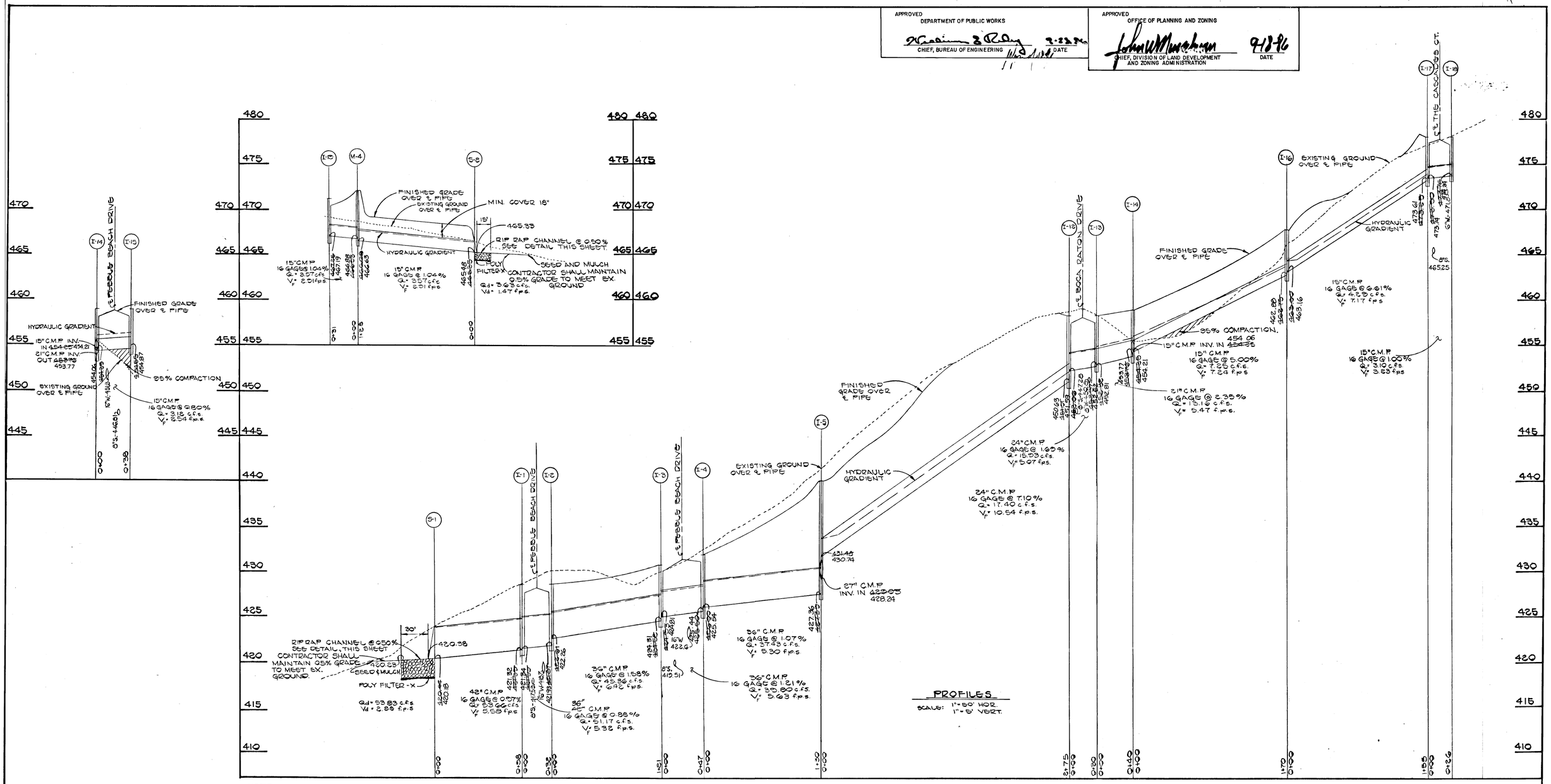
DRAINAGE AREA MAP
TURF VALLEY OVERLOOK
SECTION 1 AREA 1
LOTS 1-82
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 8 OF 13 JUNE 13, 1986

265

AS-BUILT 10-6-88 F86-229

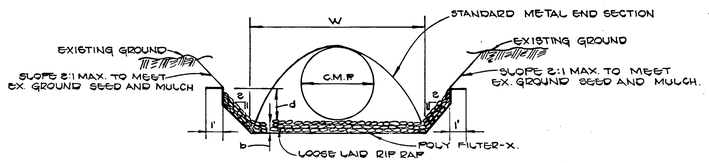
APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 2-22-86

APPROVED
OFFICE OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86



*NOTE:
TYPE OF BEDDING FOR ALL STORM DRAINS WILL BE CLASS 'C'.

AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, SR. MD. P.E. No 13204 ON 10-6-88



RIP RAP CHANNEL DETAIL
NO SCALE

RIP RAP CHANNEL DESIGN DATA														
STRUCTURE	A sq	P'	R	R 2/3	S	S 1/2	n	Q	V	d	W	RIP RAP SIZE d 50	RIP RAP SIZE d max.	b
S-1	18.60	16.29	1.173	1.0959	0.50%	0.0707	0.04	53.83 c.f.s.	2.88 f.p.s.	1.48'	9.67'	9"	14"	24"
S-2	2.47	5.92	0.4172	0.5583	0.50%	0.0707	0.04	3.63 c.f.s.	1.47 f.p.s.	0.54'	3.50'	4"	6"	9"
S-3	4.98	8.36	0.5918	0.6551	0.50%	0.0707	0.04	8.57 c.f.s.	1.72 f.p.s.	0.64'	6.50'	4"	6"	9"
S-4	5.53	8.71	0.6349	0.7373	0.50%	0.0707	0.04	10.71 c.f.s.	1.94 f.p.s.	0.83'	5.00'	4"	6"	9"

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND — CHARLES J. CROVO, SR. — No. 13204 — PROFESSIONAL ENGINEER

CHARLES J. CROVO, SR. — DATE 6/26/86

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

STORM DRAIN PROFILES
TURF VALLEY OVERLOOK
SECTION I AREA I
LOTS 1-32
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 9 OF 13 JUNE 13, 1986

AS-BUILT 10-6-88

F86-229

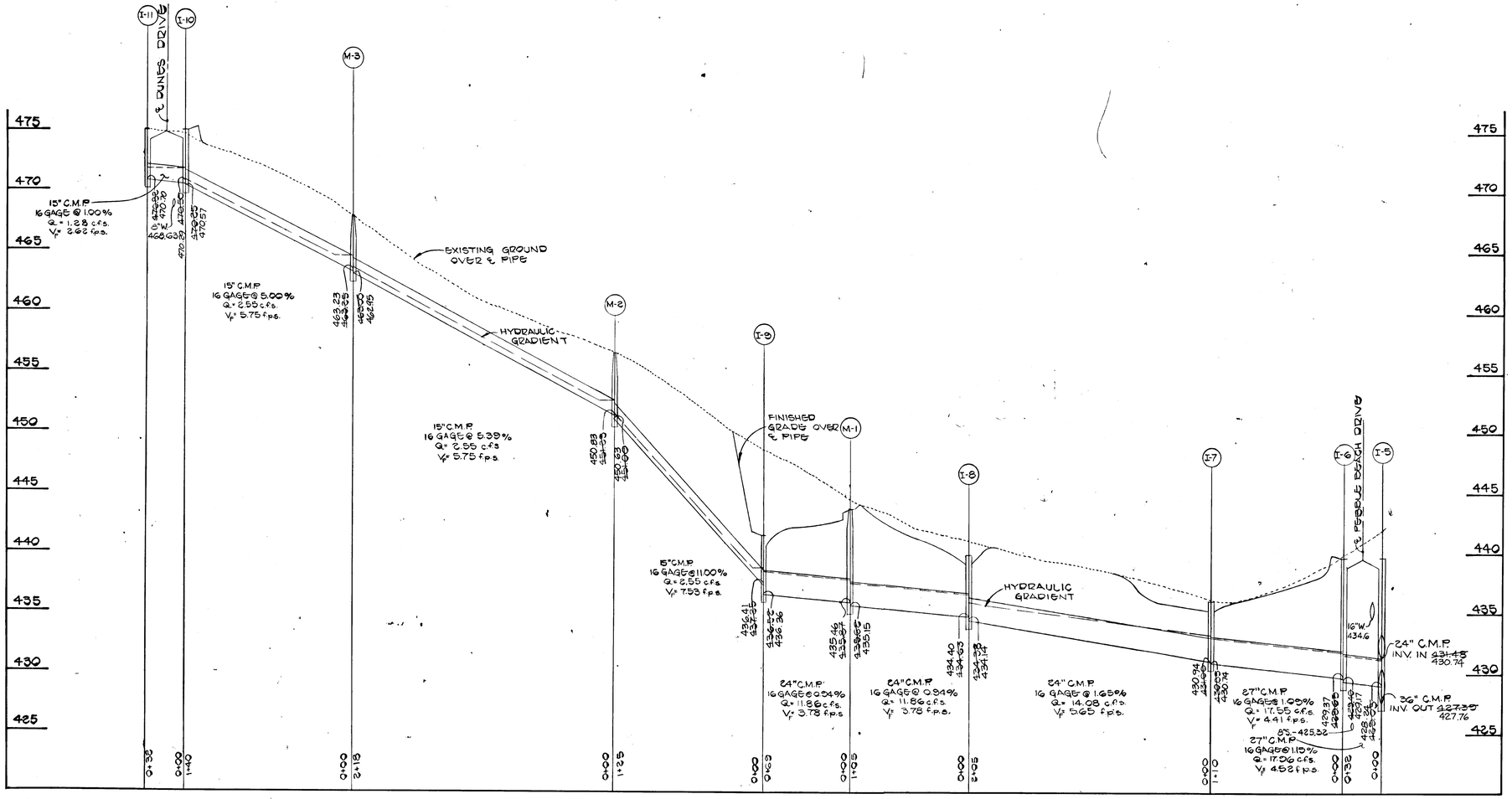
265

APPROVED
DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED
OFFICE OF PLANNING AND ZONING

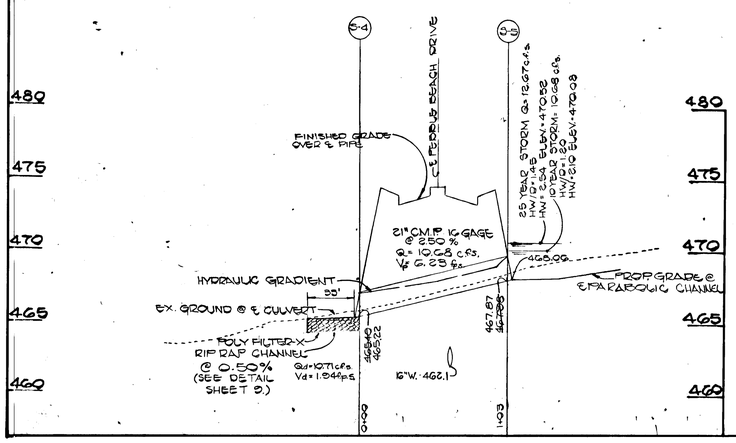
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86



*NOTE:
TYPE OF BEDDING FOR ALL STORM DRAINS WILL BE CLASS 'G'.

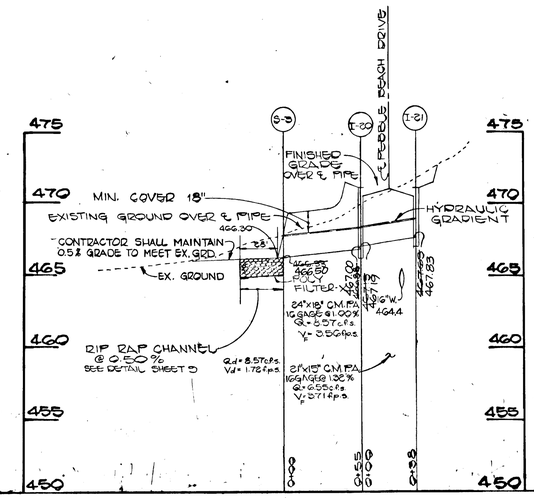
PROFILES

SCALE: 1"=60' HOR.
1"=5' VERT.



STRUCTURE SCHEDULE

NO.	TYPE	INVERT IN	INVERT OUT	TOP ELEVATION	ROAD STATION	REMARKS
I-1	A-5	421.89	421.89 32	428.46 53	19+88.24 Pebble Beach Drive	Drwg. SD 4.01
I-2	A-5	422.61	421.87 93	428.46 51	19+88.24 Pebble Beach Drive	Drwg. SD 4.01
I-3	A-10 w/deflectors	424.81	424.55 31	430.62 61	18+37.44 Pebble Beach Drive	Drwgs. SD 4.02 & SD 4.83
I-4	A- 5 w/deflectors	426.06	425.58 44	431.58 86	18+22.84 Pebble Beach Drive	Drwgs. SD 4.01 & SD 4.83
I-5	A-10 w/deflectors	431.40	427.58 76	435.66 54	16+86.75 Pebble Beach Drive	Drwgs. SD 4.02 & SD 4.83
I-6	A- 5 w/deflectors	429.45	429.45 17	436.66 67	16+85.75 Pebble Beach Drive	Drwgs. SD 4.01 & SD 4.83
I-7	"D"	430.94 431.00	430.55 74	436.00 435.87	----	Drwg. SD 4.11
I-8	"D"	434.40	434.38 14	439.83 439.51	----	Drwg. SD 4.11
I-9	A-10	441.20 436.41	436.38 36	441.00 441.06	1+11.01 Linear Profile Ponte Vedra Court	Drwg. SD 4.02
I-10	A-5	470.46	470.26 57	474.84 79	4+96.75 Dunes Drive	Drwg. SD 4.01
I-11	A-5	--	470.46 70	474.84 80	4+96.75 Dunes Drive	Drwg. SD 4.01
I-12	A- 5 w/deflectors	452.06	451.01 450.83	458.37 19	0+86 Boca Raton Drive	Drwgs. SD 4.01 & SD 4.83
I-13	A- 5 w/deflectors	452.81	452.57 52	458.32 14	0+86 Boca Raton Drive	Drwgs. SD 4.01 & SD 4.83
I-14	A-10 w/deflectors	454.25	453.76 77	458.90 75	13+46 Pebble Beach Drive	Drwgs. SD 4.02 & SD 4.83
I-15	A- 5 w/deflectors	--	454.55 87	458.90 92	13+46 Pebble Beach Drive	Drwgs. SD 4.01 & SD 4.83
I-16	A-10 w/deflectors	463.00	462.75 462.88	467.84 468.06	11+63.73 Pebble Beach Drive	Drwgs. SD 4.02 & SD 4.83
I-17	A- 5 w/deflectors	473.40	471.25 473.61	477.91 86	0+46 The Cascades Court	Drwgs. SD 4.01 & SD 4.83
I-18	A- 5 w/deflectors	--	473.76 474.28	477.91 478.11	0+46 The Cascades Court	Drwgs. SD 4.01 & SD 4.83
I-19	A-5	--	467.25 19	471.33 471.19	1+01.76 Linear Profile Doral Court	Drwg. SD 4.01
I-20	A-5	467.33	466.88 467.00	471.04 470.81	3+11.71 Pebble Beach Drive	Drwg. SD 4.01
I-21	A-5	--	467.53 83	471.04 470.81	3+11.71 Pebble Beach Drive	Drwg. SD 4.01
M-1	Standard Manhole	435.87 450.83	435.68 15	443.83 443.28	1+87.93 Linear Provile Ponte Vedra Court	Drwg. G 5.01
M-2	Standard Manhole	451.45	451.00 450.63	456.58 56	----	Drwg. G 5.01
M-3	Shallow Manhole	463.25	463.00 462.92	467.75 468.15	----	Drwg. G 5.05
M-4	Standard Manhole	466.63 80	466.46 63	471.21 472.18	0+72.04 Linear Profile Doral Court	Drwg. G 5.01
S-1	Standard Metal End Section	--	420.91 420.18	423.91 423.68	----	Drwg. SD 5.61
S-2	Standard Metal End Section	--	466.35 465.48	466.69 466.73	----	Drwg. SD 5.61
S-3	Standard Metal End Section	--	466.33 466.50	467.83 468.00	----	Drwg. SD 5.63
S-4	Standard Metal End Section	--	465.80 465.22	467.15 466.97	0+82 Pebble Beach Drive	Drwg. SD 5.61
S-5	Standard Metal End Section	467.55 467.87	--	469.73 469.62	0+82 Pebble Beach Drive	Drwg. SD 5.61



AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO, SR. MD. P.E. No. 13204 ON 10-6-88

CHARLES J. CROVO, SR. — DATE 6/26/86

OWNER AND DEVELOPER	FISHER, COLLINS AND CARTER, INC.
PEDDICORD PROPERTY PARTNERSHIP C/O HOWARD COUNTY LAND SERVICES 10176 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MARYLAND 21043	CONSULTING ENGINEERS AND LAND SURVEYORS 8388 COURT AVENUE ELLICOTT CITY, MARYLAND 21043 TELEPHONE: (301) 461-2855

STORM DRAIN PROFILES

TURF VALLEY OVERLOOK

SECTION I AREA I
LOTS 1-82
2ND. ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 10 OF 13 JUNE 13, 1986

AS-BUILT 10-6-88 F86-229

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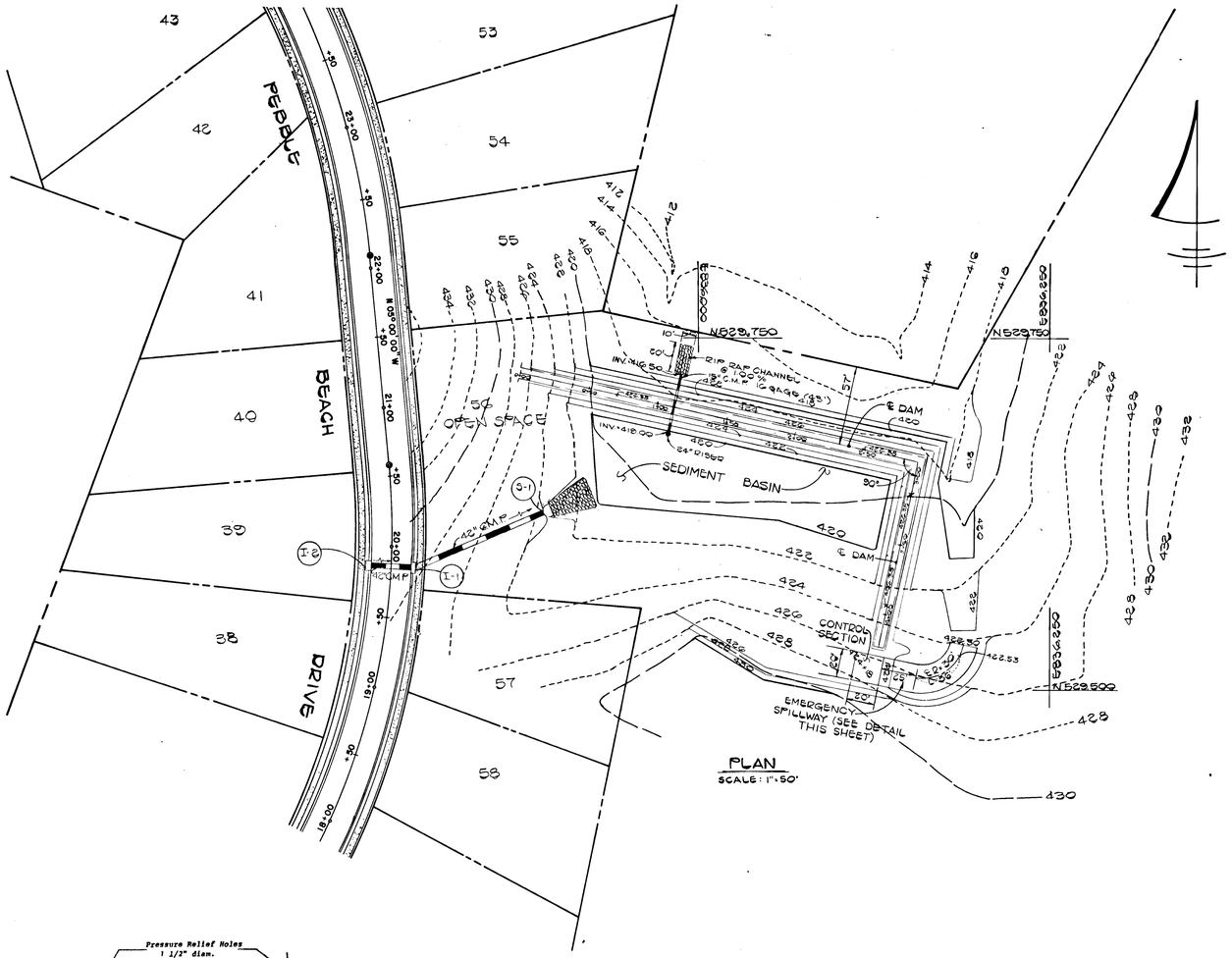
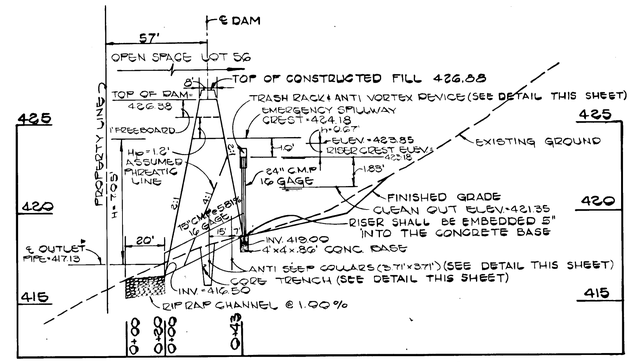
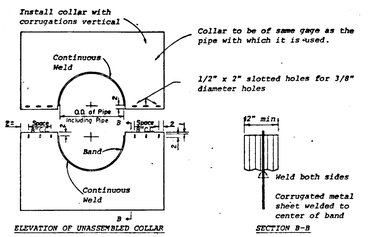


PLAN
SCALE: 1"=50'



SEDIMENT BASIN PROFILE
SCALE: 1"=20' HOR. 1"=4' VERT.

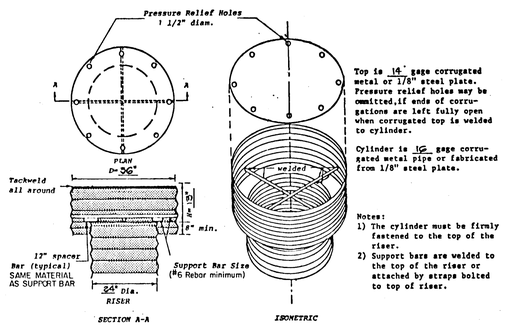


ELEVATION OF UNASSEMBLED COLLAR

SECTION B-B

NOTES FOR COLLARS:
1. All materials to be in accordance with construction and construction material specifications.
2. When specified on the plans, coating of collars shall be in accordance with construction and construction material specifications.
3. Unassembled collars shall be marked by painting or tagging to identify matching pairs.
4. The lap between the two half sections and between the pipe and connecting band shall be caulked with asphalt mastic at time of installation.
5. Each collar shall be furnished with two 1/2" diameter rods with standard tank lugs for connecting collars to pipe.

DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR
NO SCALE

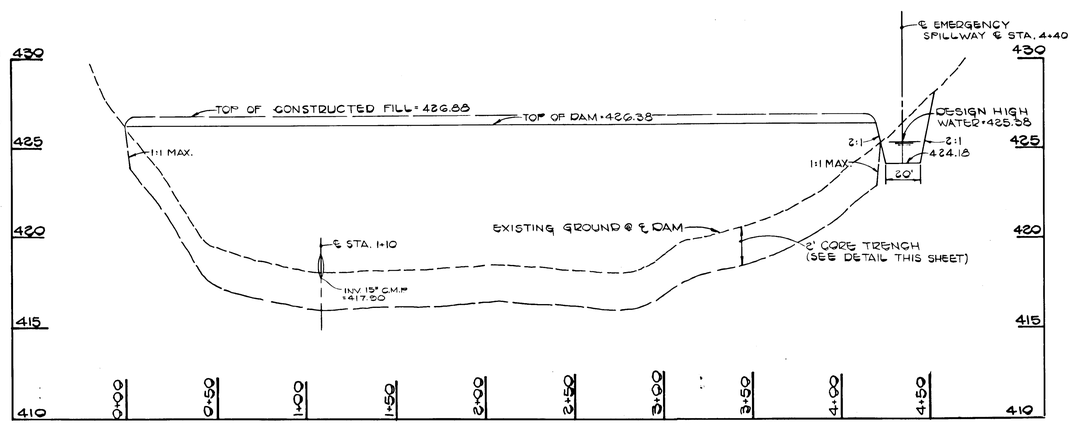


Top is 14 gage corrugated metal or 1/8" steel plate. Pressure relief holes may be ommitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

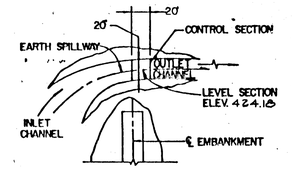
Cylinder is 16 gage corrugated metal pipe or fabricated from 1/8" steel plate.

Notes:
1) The cylinder must be firmly fastened to the top of the riser.
2) Support bars are welded to the top of the riser or attached by straps bolted to top of riser.

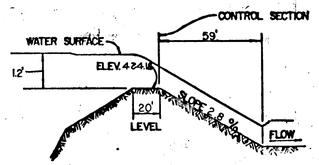
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE DETAIL
NOT TO SCALE



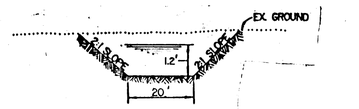
PROFILE ALONG ℄ DAM
SCALE: 1"=40' HOR. 1"=4' VERT.



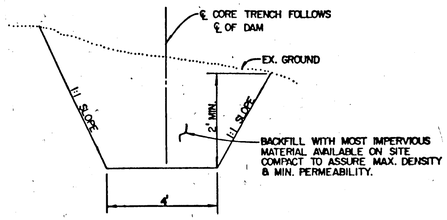
PLAN OF EARTH SPILLWAY
NO SCALE



PROFILE ALONG ℄ EARTH SPILLWAY
NO SCALE



CROSS SECTION OF EARTH SPILLWAY AT CONTROL SECTION
NO SCALE



CORE TRENCH DETAIL
NO SCALE

EMERGENCY SPILLWAY DETAILS

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 6/26/86

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 9-5-86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE 9-17-86

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: Stephen L. Allen — 9/17/86
DISTRICT — DATE
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS.

CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: OFFICE OF PLANNING AND ZONING

CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86

OWNER AND DEVELOPER
PEDDCORD ROCKY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER

CHARLES J. CROVO, SR. — DATE 6/26/86

SEDIMENT CONTROL BASIN
PLAN, PROFILE AND DETAILS
TURF VALLEY OVERLOOK
SECTION ONE, AREA ONE
2ND. ELECTION DISTRICT — HOWARD COUNTY, MD.
SCALE: AS SHOWN — JUNE 13, 1986
SHEET 11 OF 13

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

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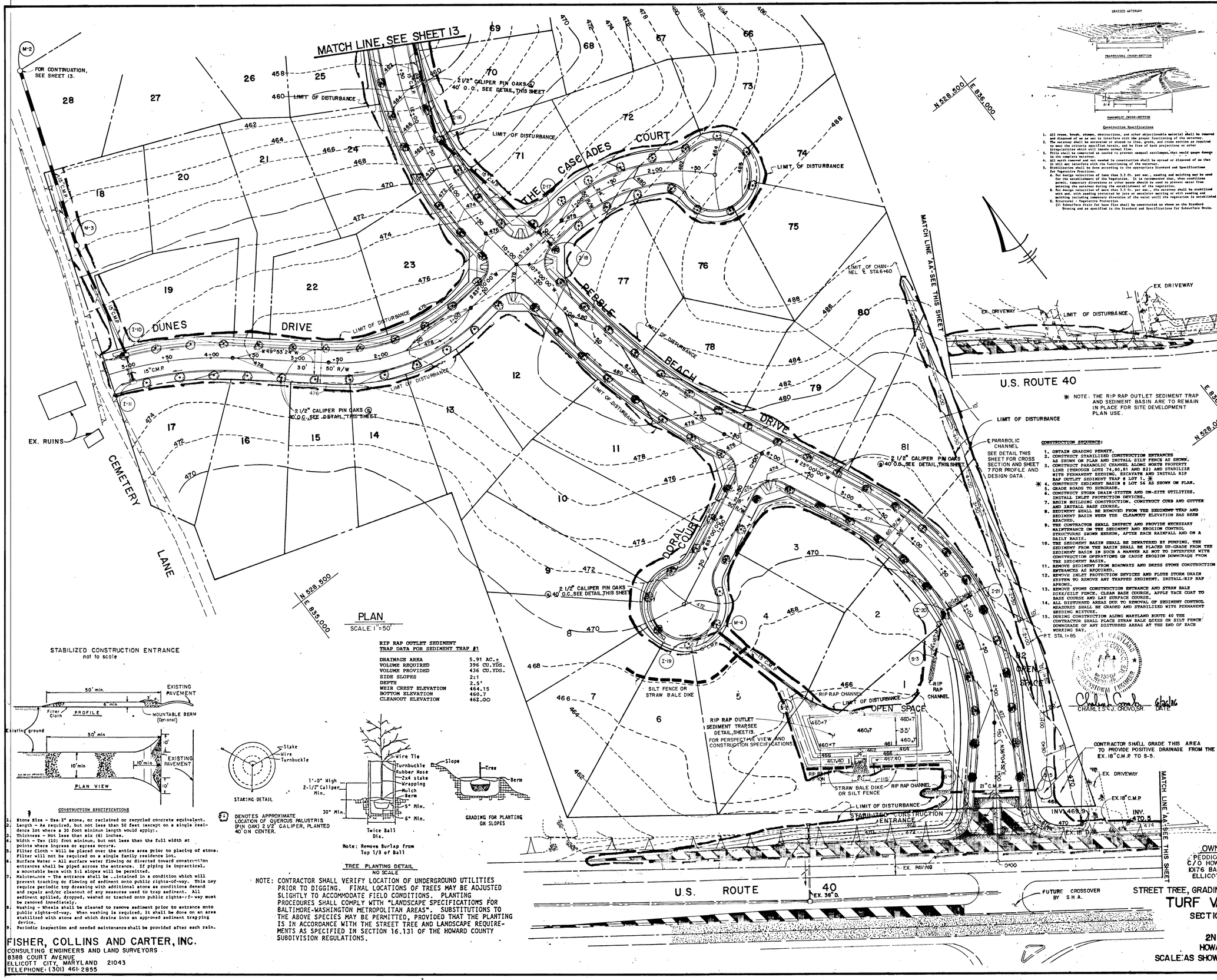
AS-BUILT 10-6-88 F86-229



PLAN
SCALE: 1" = 50'

✱ NOTE: THE RIP RAP OUTLET SEDIMENT TRAP AND SEDIMENT BASIN ARE TO REMAIN IN PLACE FOR SITE DEVELOPMENT PLAN USE.

℄ PARABOLIC CHANNEL SEE DETAIL THIS SHEET FOR CROSS SECTION AND SHEET 7 FOR PROFILE AND DESIGN DATA.

CONSTRUCTION SEQUENCE:

1. OBTAIN GRADING PERMIT.
2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON PLAN AND INSTALL SILT FENCE AS SHOWN.
3. CONSTRUCT PARABOLIC CHANNEL ALONG NORTH PROPERTY LINE (THROUGH LOTS 74,80,81 AND 82) AND STABILIZE WITH PERMANENT SEEDING. EXCAVATE AND INSTALL RIP RAP OUTLET SEDIMENT TRAP # LOT 1. ✱
4. ✱ CONSTRUCT SEDIMENT BASIN # LOT 56 AS SHOWN ON PLAN.
5. GRADE ROADS TO SUBGRADE.
6. CONSTRUCT STORM DRAIN SYSTEM AND ON-SITE UTILITIES. INSTALL INLET PROTECTION DEVICES.
7. BEGIN BUILDING CONSTRUCTION. CONSTRUCT CURB AND GUTTER AND INSTALL BASE COURSE.
8. SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND SEDIMENT BASIN WHEN THE CLEANOUT ELEVATION HAS BEEN REACHED.
9. THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON, AFTER EACH RAINFALL AND ON A DAILY BASIS.
10. THE SEDIMENT BASIN SHALL BE DEWATERED BY PUMPING. THE SEDIMENT FROM THE BASIN SHALL BE PLACED UP-GRADE FROM THE SEDIMENT BASIN IN SUCH A MANNER AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS OR CAUSE EROSION DOWNGRADE FROM THE SEDIMENT BASIN.
11. REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCES AS REQUIRED.
12. REMOVE INLET PROTECTION DEVICES AND FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT. INSTALL RIP RAP APRONS.
13. REMOVE STONE CONSTRUCTION ENTRANCE AND STRAW BALE DIKE/SILT FENCE. CLEAN BASE COURSE, APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
14. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED WITH PERMANENT SEEDING MIXTURE.
15. DURING CONSTRUCTION ALONG MARYLAND ROUTE 40 THE CONTRACTOR SHALL PLACE STRAW BALE DIKES OR SILT FENCE DOWNGRADE OF ANY DISTURBED AREAS AT THE END OF EACH WORKING DAY.

RIP RAP OUTLET SEDIMENT TRAP DATA FOR SEDIMENT TRAP #1

DRAINAGE AREA	5.91 AC.±
VOLUME REQUIRED	396 CU.YDS.
VOLUME PROVIDED	436 CU.YDS.
SIDE SLOPES	2:1
DEPTH	2.5'
WEIR CREST ELEVATION	464.15
BOTTOM ELEVATION	460.7
CLEANOUT ELEVATION	462.00

STABILIZED CONSTRUCTION ENTRANCE
not to scale

CONSTRUCTION SPECIFICATIONS

1. Stone Size - Use 2" stone, or reclaimed or recycled concrete equivalent.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than six (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. 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.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. 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.
8. 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 trap ping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

DENOTES APPROXIMATE LOCATION OF QUERCUS PALUSTRIS (PIN OAK) 2 1/2" CALIPER, PLANTED 40' ON CENTER.

Note: Remove Burlap from Top 1/3 of Ball

TREE PLANTING DETAIL
NO SCALE

NOTE: CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO DIGGING. FINAL LOCATIONS OF TREES MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE FIELD CONDITIONS. PLANTING PROCEDURES SHALL COMPLY WITH "LANDSCAPE SPECIFICATIONS FOR BALTIMORE-WASHINGTON METROPOLITAN AREAS". SUBSTITUTIONS TO THE ABOVE 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 HOWARD COUNTY SUBDIVISION REGULATIONS.

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

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Construction Specifications

1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the waterway.
2. The waterway shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein, and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would impede damage to the complete waterway.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the waterway.
5. Finished waterways shall be seeded according to the appropriate Standard and Specifications for Vegetative Practices.
6. For design velocities of more than 3.5 ft. per sec., sodding and mulching may be used for the establishment of the vegetation. It is recommended that, when conditions permit, temporary diversions or other means should be used to prevent water from entering the waterway during the establishment of the vegetation.
7. For design velocities of more than 5.5 ft. per sec., the waterway shall be stabilized with sod, with sodding protected by jute or excelsior matting or with seeding and mulching including temporary diversion of the water until the vegetation is established.
8. Structural Vegetative Protection
   (1) Rock riprap for the channel shall be constructed as shown on the Standard Drawing and as specified in the Standard and Specifications for Subsurface Drain.

SEDIMENT CONTROL NOTES:

1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
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 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.
4) 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.
5) 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.
6) SITE ANALYSIS:

TOTAL AREA OF SITE	40.88 ACRES
AREA DISTURBED	8.52 ACRES
AREA TO BE ROOFED OR PAVED	4.75 ACRES
AREA TO BE VEGETATIVELY STABILIZED	4.20 ACRES
TOTAL CUT	CU.YDS.
TOTAL FILL	CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	

7) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREA 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.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE:

1) PREFERRED - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQUARE 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 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 1½ 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 3 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.

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 2½ 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 1½ 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.

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 6/26/86

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 DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

SIGNATURE OF DEVELOPER — DATE 9-5-86

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED:
DISTRICT — DATE 9/15/86
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS.

CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED: OFFICE OF PLANNING AND ZONING

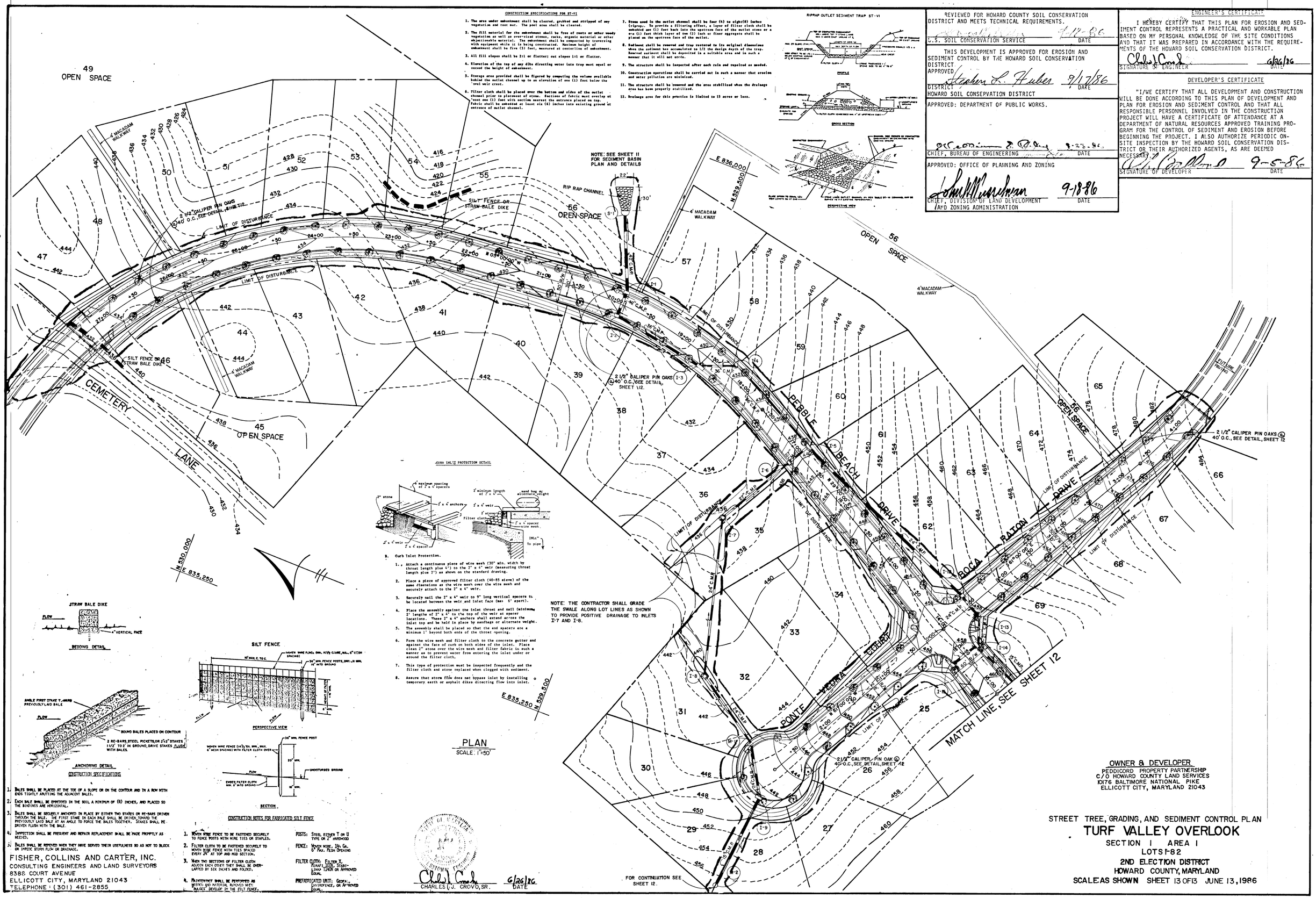
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE 9-18-86

OWNER & DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O HOWARD COUNTY LAND SERVICES
10176 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21043

STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN
TURF VALLEY OVERLOOK

SECTION 1 AREA 1
LOTS 1-82
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN SHEET 12 OF 13 JUNE 13, 1986

AS-BUILT 10-6-88 F86-229



CONSTRUCTION SPECIFICATIONS FOR ST-VI

1. The area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The pool area shall be cleared.
2. 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 traversing with equipment while it is being constructed. Maximum height of embankment shall be five (5) feet, measured at centerline of embankment.
3. All fill slopes shall be 2:1 or flatter; cut slopes 1:1 or flatter.
4. Elevation of the top of any dike directing water into trap must equal or exceed the height of embankment.
5. Storage area provided shall be figured by computing the volume available behind the outlet channel up to an elevation of one (1) foot below the weir crest.
6. 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 one (1) foot with section nearest the entrance placed on top. Fabric shall be embedded at least six (6) inches into existing ground at entrance of outlet channel.
7. Stone used in the outlet channel shall be four (4) to eight(8) inches (riprap). To provide a filtering effect, a layer of filter cloth shall be embedded one (1) foot back into the upstream face of the outlet stone or a one (1) foot thick layer of two (2) inch or finer aggregate shall be placed on the upstream face of the outlet.
8. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
9. The structure shall be inspected after each rain and repaired as needed.
10. Construction operations shall be carried out in such a manner that erosion and water pollution are minimized.
11. The structure shall be removed and the area stabilized when the drainage area has been properly stabilized.
12. Drainage area for this practice is limited to 15 acres or less.

RIPRAP OUTLET SEDIMENT TRAP ST-VI

CURB INLET PROTECTION DETAIL

9. Curb Inlet Protection.
   1. Attach a continuous piece of wire mesh (30" min. width by throat length plus 4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard drawing.
   2. Place a piece of approved filter cloth (40-85 sieve) of the same dimensions as the wire mesh over the wire mesh and securely attach to the 2" x 4" weir.
   3. Securely nail the 2" x 4" weir to 9" long vertical spacers to be located between the weir and inlet face (max 6' apart).
   4. Place the assembly against the inlet throat and nail (minimum 2' lengths of 2" x 4" to the top of the weir at spacer locations. These 2" x 4" anchors shall extend across the inlet top and be held in place by sandbags or alternate weight.
   5. The assembly shall be placed so that the end spacers are a minimum 1' beyond both ends of the throat opening.
   6. Form the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or around the filter cloth.
   7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment.
   8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

PLAN
SCALE: 1"=50'

STRAW BALE DIKE

BEDDING DETAIL

SILT FENCE

ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

SECTION

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REPAIRED OR REPLACED IF BULGES DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD

FENCE: WOVEN WIRE, 14½ GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 140N, STABINOR 1120N OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE: (301) 461-2855

CHARLES W. CROVO, SR.
6/26/86
DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION SERVICE — DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
APPROVED: Stephen L. Huber 9/17/86
DISTRICT — DATE
HOWARD SOIL CONSEPVATION DISTRICT

APPROVED: DEPARTMENT OF PUBLIC WORKS.

CHIEF, BUREAU OF ENGINEERING — DATE 9-23-86

APPROVED: OFFICE OF PLANNING AND ZONING
9-18-86
CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION — DATE

ENGINEER'S CERTIFICATE

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SIGNATURE OF ENGINEER — 6/26/86 DATE

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SIGNATURE OF DEVELOPER — 9-5-86 DATE

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STREET TREE, GRADING, AND SEDIMENT CONTROL PLAN
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SCALE: AS SHOWN SHEET 13 OF 13 JUNE 13, 1986

2165

AS-BUILT 10-6-88 F86-229