TURF VALLEY OVERLOOK

SECTION TWO AREA TWO

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.
8.) WP-90-140 REQUESTED A WAIVER FROM SECTION 16.129.1 OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS TO ELIMINATE SIDEWALKS ALONG TURF VALLEY ROAD AT STATIONS 11+25 TO 17+67, APPROVED ON JULY 9, 1990.

APPROVED:
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10-9-90

APPROVED:
DEPARTMENT OF PLANNING AND ZONING
CHIEF, DIVISION OF LAND DEVELOPMENT AND COMMUNITY PLANNING. — DATE 10/10/90

APPROVED:
DEPARTMENT OF PUBLIC WORKS.
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED:
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90

BENCH MARKS:

B.M. 5240003 — ELEV. 488.11
CONCRETE MON. 0.2' ABOVE SURFACE. 200' EAST OF COVENTRY COURT.

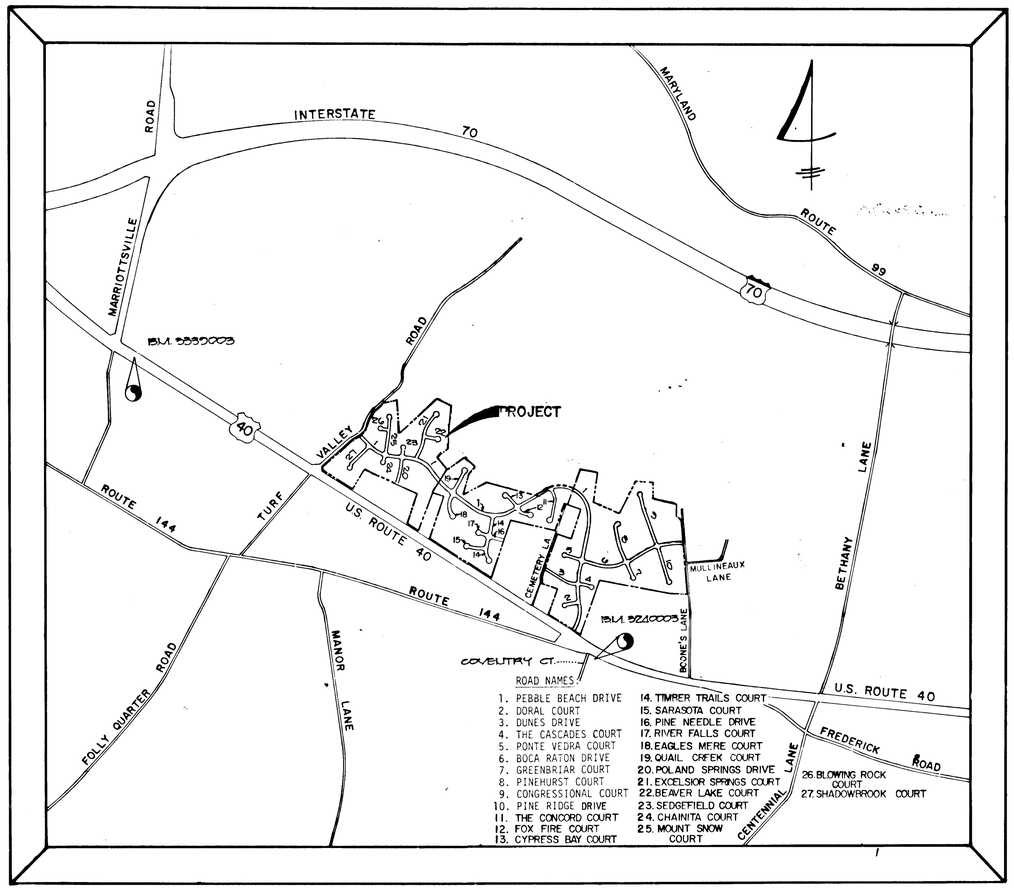
B.M. 5339003 — ELEV. 470.53
CONC. MON. @ SURFACE 0'± E. BOUND ROUTE 40 20'± W OF & CONC. CHANNEL EXTENTED 0.3 MILES E. OF MARRIOTTSVILLE ROAD.

STREET LIGHTS:

PROVIDE 100 WATT SODIUM VAPOR LIGHTS WITH TRADITIONAIRE FIXTURES ON 14' BLACK FIBERGLASS POLES LOCATED AT THE FOLLOWING LOCATIONS:

*1. NORTHWEST CORNER OF INTERSECTION PEBBLE BEACH DRIVE AND EXCELSIOR SPRINGS COURT.
*2. SOUTHWEST CORNER OF INTERSECTION OF PEBBLE BEACH DRIVE AND POLAND SPRINGS DRIVE.
3. NORTHEAST CORNER OF INTERSECTION OF EXCELSIOR SPRINGS COURT AND BEAVER LAKE COURT.
4. CUL-DE-SAC EXCELSIOR SPRINGS COURT LINEAR PROFILE STA. 1+17 ±
5. POLAND SPRING DRIVE OFFSET 18' LEFT OF ℄ ROAD STA 4+16.
*6. NORTHWEST CORNER OF INTERSECTION PEBBLE BEACH DRIVE AND MOUNT SNOW COURT
*7. NORTHEAST CORNER OF INTERSECTION PEBBLE BEACH DRIVE AND TURF VALLEY ROAD
8. CUL-DE-SAC SHADOWBROOK COURT LINEAR PROFILE STA. 0+97 ±
9. SOUTHWEST CORNER OF INTERSECTION MOUNT SNOW COURT AND BLOWING ROCK COURT

* - Denotes 150 Watt Sodium Lights On A 25-Foot Galvanized Steel Pole Located No Less Than 2-10 Feet From Back of Curb.



VICINITY MAP
SCALE - 1" = 1200'

SHEET INDEX:

1. TITLE SHEET.
2. PEBBLE BEACH DRIVE - PLAN AND PROFILE; SEDGEFIELD COURT - PLAN.
3. PEBBLE BEACH DRIVE - PLAN AND PROFILE; CHAINITA COURT - PLAN AND PROFILE.
4. EXCELSIOR SPRINGS COURT - PLAN AND PROFILE; BEAVER LAKE COURT - PLAN.
5. POLAND SPRINGS DRIVE - PLAN AND PROFILE; SEDGEFIELD COURT - PROFILE.
6. MOUNT SNOW COURT - PLAN AND PROFILE; BLOWING ROCK COURT - PLAN.
7. SHADOWBROOK COURT - PLAN AND PROFILE
8. BEAVER LAKE COURT - PROFILE; BLOWING ROCK COURT - PROFILE; ROADWAY SECTIONS AND DETAILS
9. TURF VALLEY ROAD, SEDIMENT BASIN PROFILES; POLAND SPRINGS DRIVE - PROFILE.
10. STREET TREE, SEDIMENT CONTROL AND GRADING PLAN.
11. " " " " " " "
12. " " " " " " "
13. DRAINAGE AREA MAP.
14. STORMDRAIN PROFILES.
15. " "
16. STORMWATER MANAGEMENT PROFILES.
17. STORMWATER MANAGEMENT DETAILS.

THE COORDINATES SHOWN HEREON ARE BASED ON THE MARYLAND STATE GRID SYSTEM AND DERIVED FROM THE FOLLOWING HOWARD COUNTY CONTROL STATIONS:

3440001 N 534735.481 E 830280.294

3440002 N 533593.800 E 887983.249

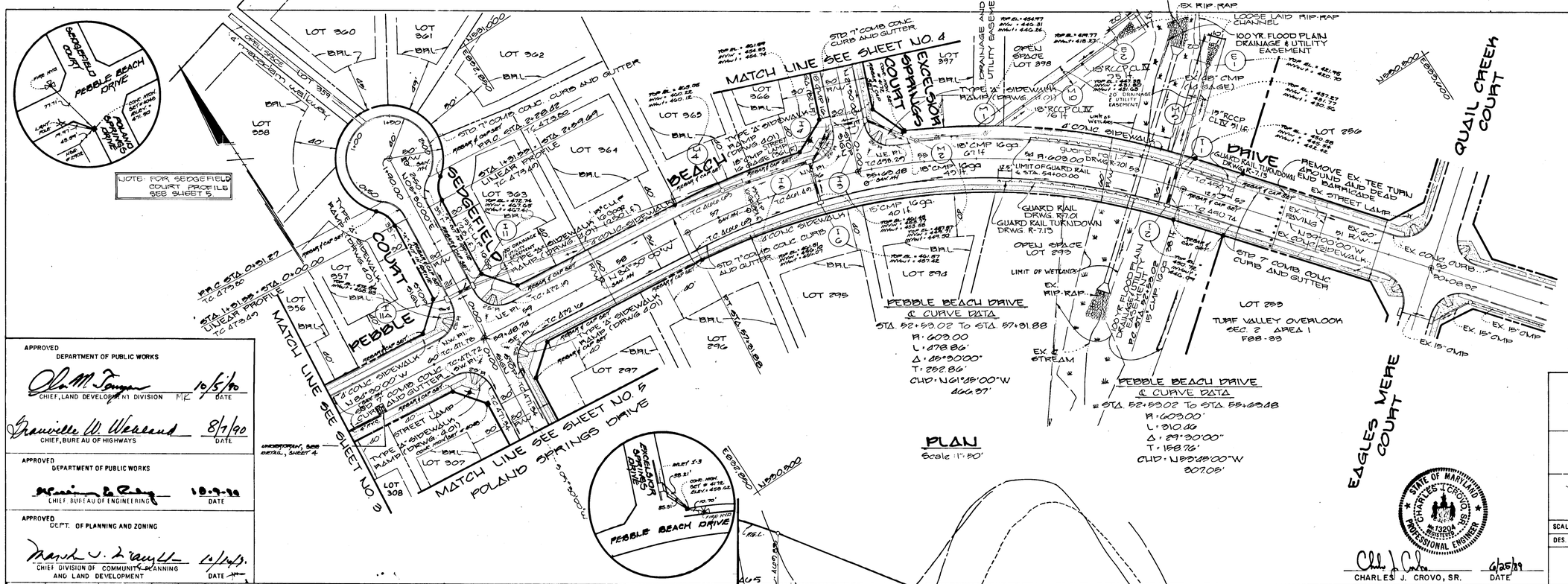
FISHER, COLLINS, AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
TELEPHONE (301) 461-2855

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN STREET
ELLICOTT CITY MD 21043.

STATE OF MARYLAND — CLIFF CARTER — REGISTERED PROFESSIONAL ENGINEER

AS-BUILT 9-26-96

F90-01



APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10-9-90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/10/90

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / AS-BUILT MAY CHECKED / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / AS-BUILT / PROJECT NO. T-3204 / BY / DATE

TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 203 - 398
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

PEBBLE BEACH DRIVE
PLAN AND PROFILE
SEDGEFIELD COURT
PLAN

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
c/o Land Design and Development Inc.
8307 Main st.
Ellicott City Md. 21043

SCALE AS SHOWN	DATE JUNE 23, 1989	DWG. NO. 2 OF 17
DES. K. ISAACS	DRN. C. BAUER	CHK. C. CROVO, SR

FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS

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

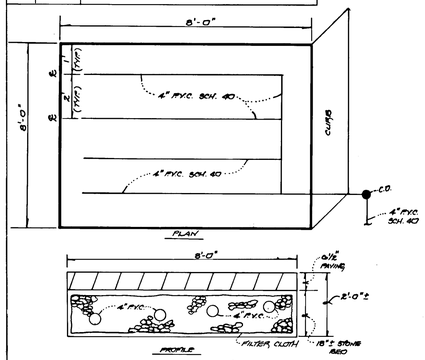
CHARLES J. CROVO, SR. — DATE 6/25/89

AS-BUILT 9-26-90 F 90-01

2605

MATCH LINE 'B-B' SEE SHEET 9
STD. 7" COMB. CONCRETE CURB AND GUTTER
EX. RIP-RAP AND END SECTION TO BE REMOVED
LIMIT OF 4' SIDEWALK
RIP-RAP CHANNEL @ 0.00% SEE DETAIL SHEET 13
PROP. HOWARD CO. 42" SPAN METAL END SECTION SD 5.53
LIMIT OF WORK
EX. 7' MAC. WALK TO REMAIN
EX. RIP-RAP CHANNEL TO BE FILLED AND SEEDED
A-5 INLET
NOTE: ALL BARE METAL IS TO BE PAINTED WITH BITUMINOUS COATING.
LIMIT OF CURB AND GUTTER
S.W.M. DRAINAGE & UTILITY EASEMENT
LOT 333 OPEN SPACE
PEBBLE BEACH DRIVE
℄ CURVE DATA
STA. 62+12.47 TO STA. 66+26.15
R=603.00
L=413.68
Δ=39°18'25"
T=215.35
PEBBLE BEACH DRIVE
℄ CURVE DATA
STA. 62+12.47 TO STA. 62+90.00
R=603.00'
L=77.53'
Δ=07°21'59"
T=38.82'
MOUNT SNOW COURT
MATCH LINE SEE SHEET NO. 2
MATCH LINE SEE SHEET NO. 9
MATCH LINE SEE SHEET NO. 7
SHADOWBROOK COURT
TURF VALLEY ROAD
CHAINITA COURT
MATCH LINE 'A-A' SEE SHEET 9
LOT 331
LOT 330
OPEN SPACE LOT 332
TYPE 'A' SIDEWALK RAMP (DRWG. 401)
4' CONC. SIDEWALK
STD 7" COMB. CONC. CURB AND GUTTER
STREET LAMP
LINEAR PROFILE
PLAN
Scale: 1"=50'
APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION 10/5/90 DATE
CHIEF, BUREAU OF HIGHWAYS 8/7/90 DATE
APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING 10.9.90 DATE
APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT 10/16/90 DATE
TURF VALLEY OVERLOOK
SECTION TWO AREA ONE
LOTS 293-338
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.
PEBBLE BEACH DRIVE
PLAN AND PROFILE
CHAINITA DRIVE
PLAN AND PROFILE
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN ST.
ELLICOTT CITY, MD. 21043
SCALE AS SHOWN
DATE JUNE 23, 1989
DWG. NO. 3 OF 17
DES. R. ISAACS
DRN. C. BAUER
CHK. C. CROVO, SR.
FISHER, COLLINS AND CARTER, INC.
CIVIL ENGINEERS AND LAND SURVEYORS
8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043
CHARLES J. CROVO SR. 6/25/89 DATE
CHAINITA COURT
PEBBLE BEACH DRIVE
LINEAR PROFILE
SCALE: 1"=50' HORZ. 1"=5' VERT.
EX. GROUND @ TOP OF CURB
EX. GROUND @ BLDG. RESTRICTION LINE
EX. GROUND @ LEFT BLDG. RESTRICTION LINE
EX. GROUND @ RIGHT BLDG. RESTRICTION LINE
EX. GROUND @ ℄ ROAD
VERTICAL CURVE DATA
PROFILES
SCALE: 1"=50' HORZ. 1"=5' VERT.
MATCH LINE 'B-B' SEE THIS SHEET
MATCH LINE 'A-A' SEE THIS SHEET
MATCH LINE SEE SHEET 2
PLAN
PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
GRADES CHECKED
B.M.'s NOTED
STRUCTURE NOTATIONS CHK'D
REVISION: INSTALL C&G AND AN INLET TO COLLECT STORM WATER RUNOFF
REVISION - REVISED CURB & GUTTER ALONG TURF VALLEY RD
REVISED PIPES FROM 5-1 TO E-11
AS-BUILT 9-26-96
F90-01
2605

REVISION		
NO	DATE	DESCRIPTION
1	8-16-96	REV. LENGTH OF S.D. E-4



UNDERDRAIN DETAIL
(NO SCALE)

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90

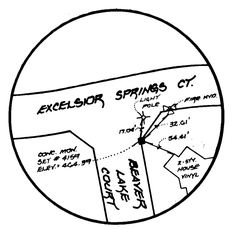
Granville W. Wetzel
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/9

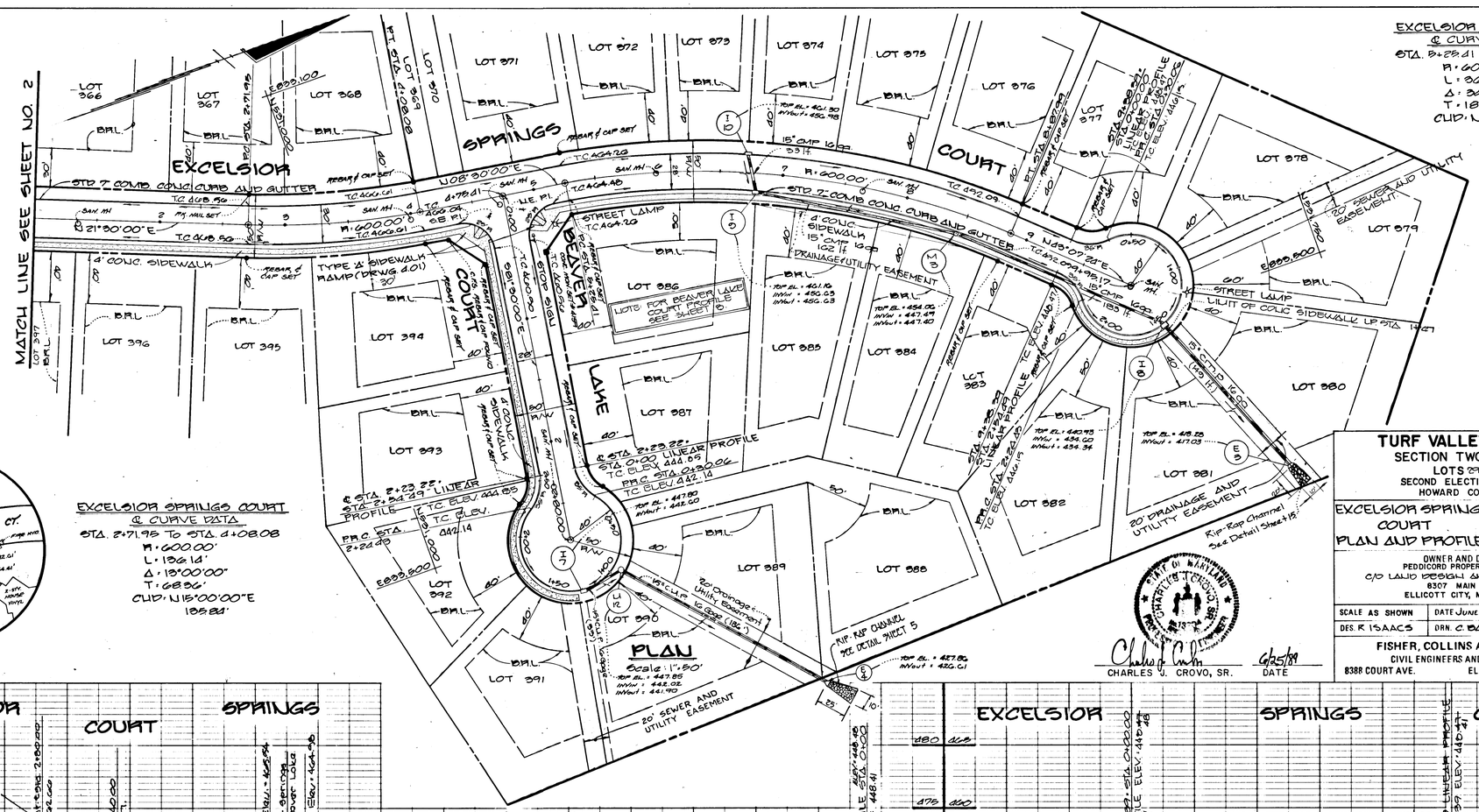
APPROVED
DEPARTMENT OF PUBLIC WORKS
DIRECTOR — DATE 10.9.90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/16/90

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

	BY	DATE





EXCELSIOR SPRINGS COURT
& CURVE DATA
STA. 2+29.41 TO STA. 8+87.99
R = 600.00'
L = 862.87'
Δ = 84°37'28"
T = 187.01'
CHD. N28°48'42"E
787.08'

EXCELSIOR SPRINGS COURT
& CURVE DATA
STA. 2+71.95 TO STA. 4+08.08
R = 600.00'
L = 136.14'
Δ = 13°00'00"
T = 68.36'
CHD. N15°00'00"E
135.83'

CHARLES J. CROVO, SR. — DATE 6/25/89

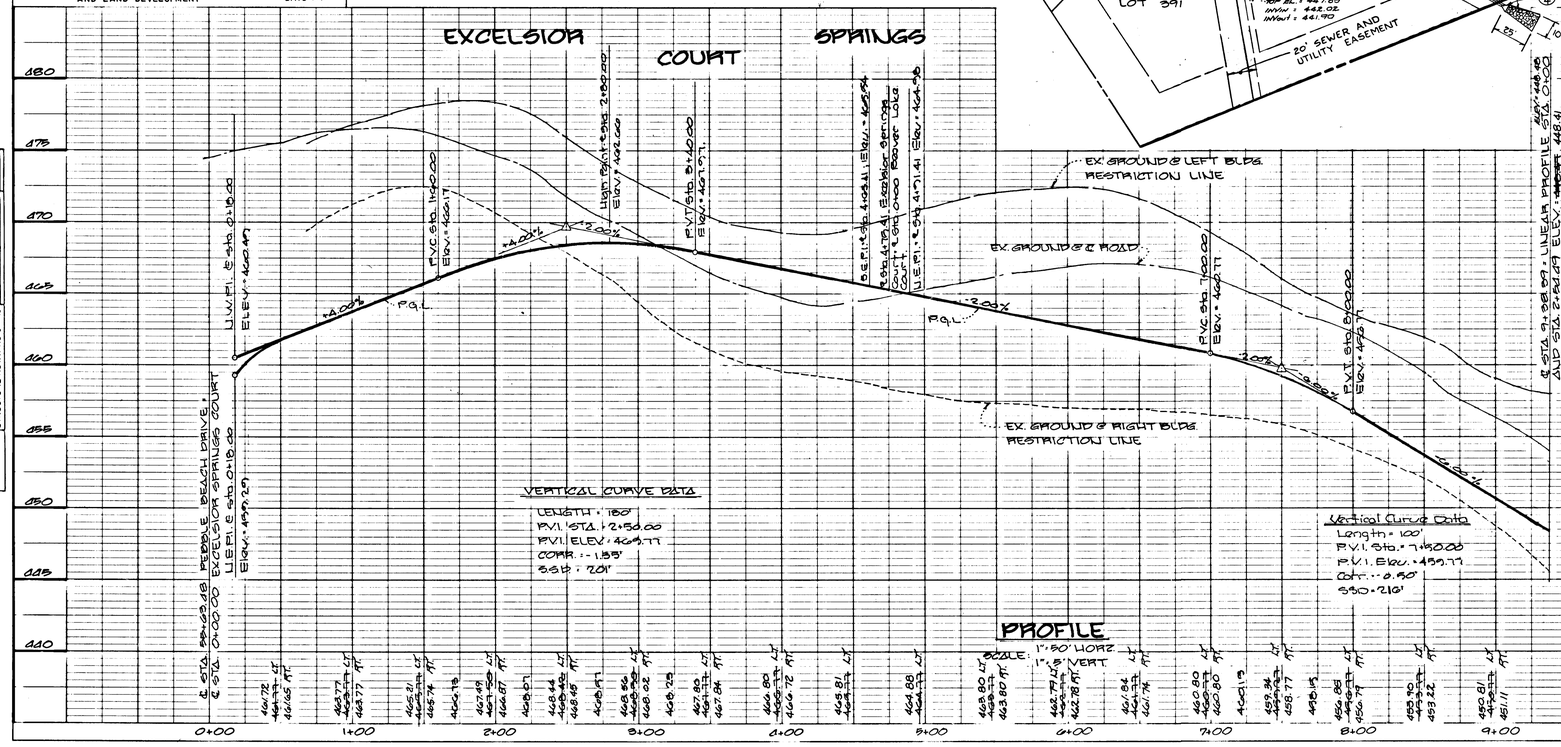
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 393 - 398
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

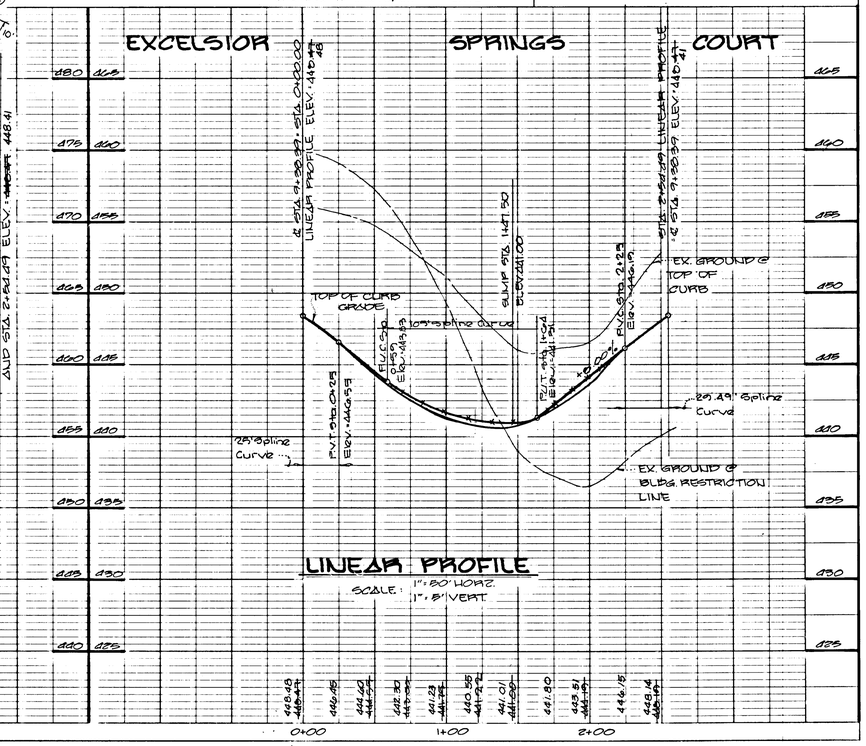
EXCELSIOR SPRINGS COURT PLAN AND PROFILE	BEAVER LAKE COURT PLAN

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 23, 1989	DWG. NO. 4 OF 17
DES. R. ISAACS	DRN. C. BAUER	CHK. C. CROVO, SR.

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





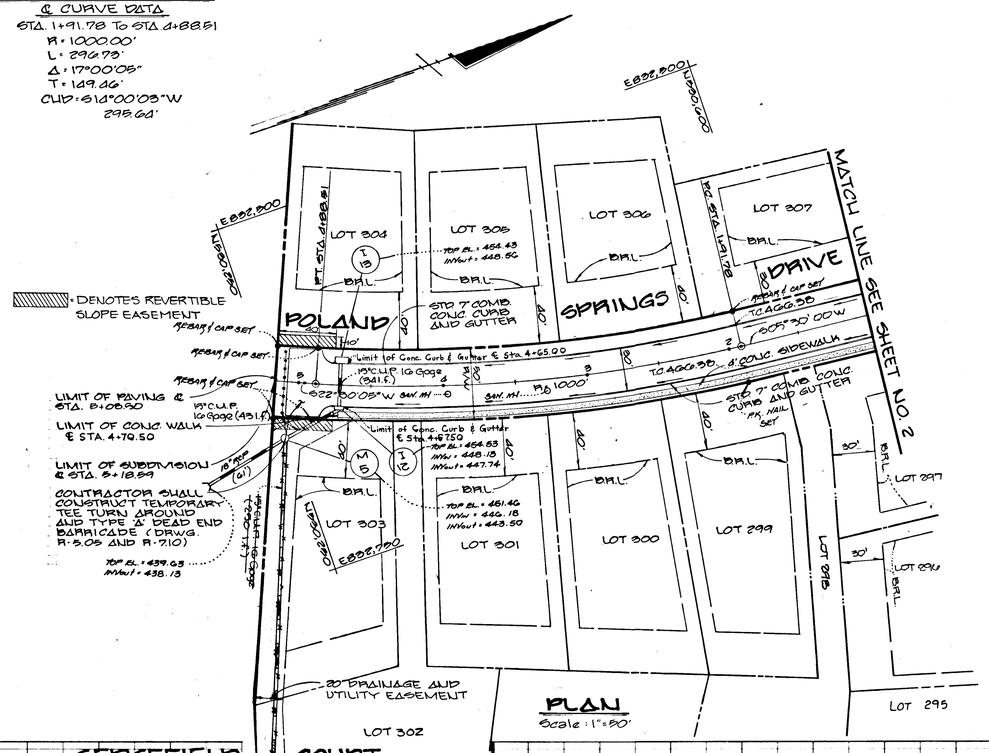
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATNS CHK'D	
NOTE BOOK	
NO.	

	BY	DATE

AS-BUILT 9-26-96

F 90-01

POLAND SPRINGS DRIVE
℄ CURVE DATA
STA. 1+91.78 To STA 4+88.51
R = 1000.00'
L = 296.73'
Δ = 17°00'05"
T = 149.46'
CHD = S13°00'03"W
295.64'



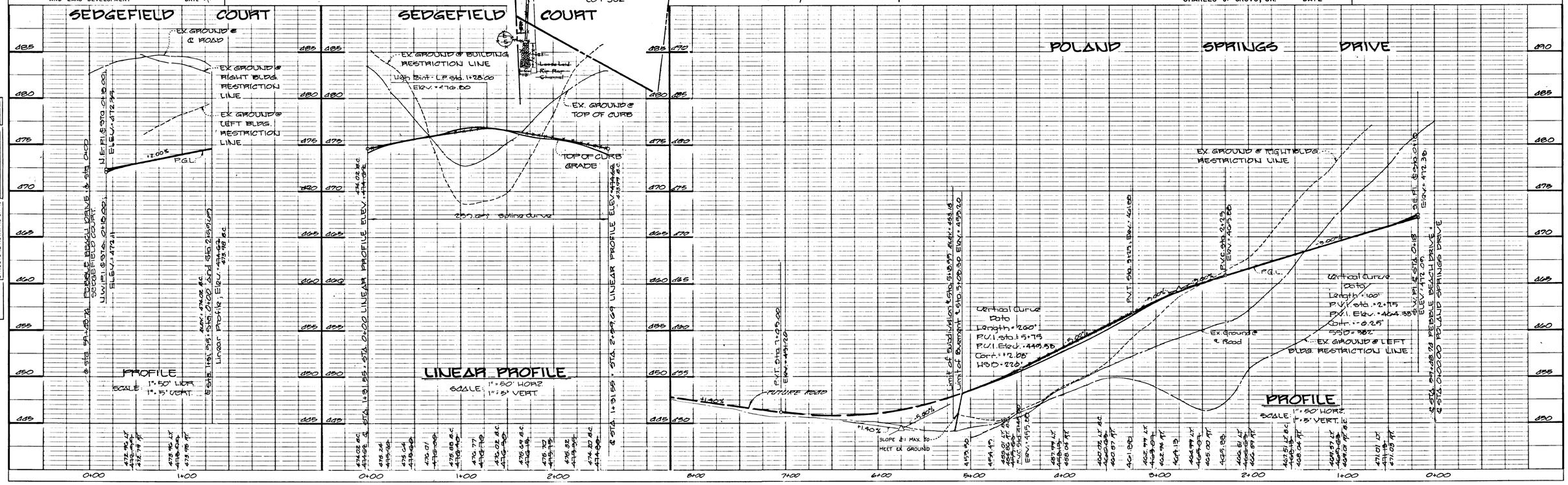
APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10-9-90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/16/90

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

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



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

CHARLES J. CROVO, SR. — DATE 6/25/89

TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 203 - 398
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

POLAND SPRINGS DRIVE
PLAN AND PROFILE
SEDGEFIELD COURT
PROFILE

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
GD LAND DESIGN AND DEVELOPMENT L.L.C.
8307 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

SCALE AS SHOWN	DATE JUNE 23, 1989	DWG. NO. 5 OF 17
DES. R. ISAACS	DRN. C. BAUER	CHK. C. CROVO SR.

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

205

AS-BUILT 9-26-96

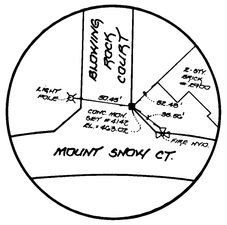
F90-01

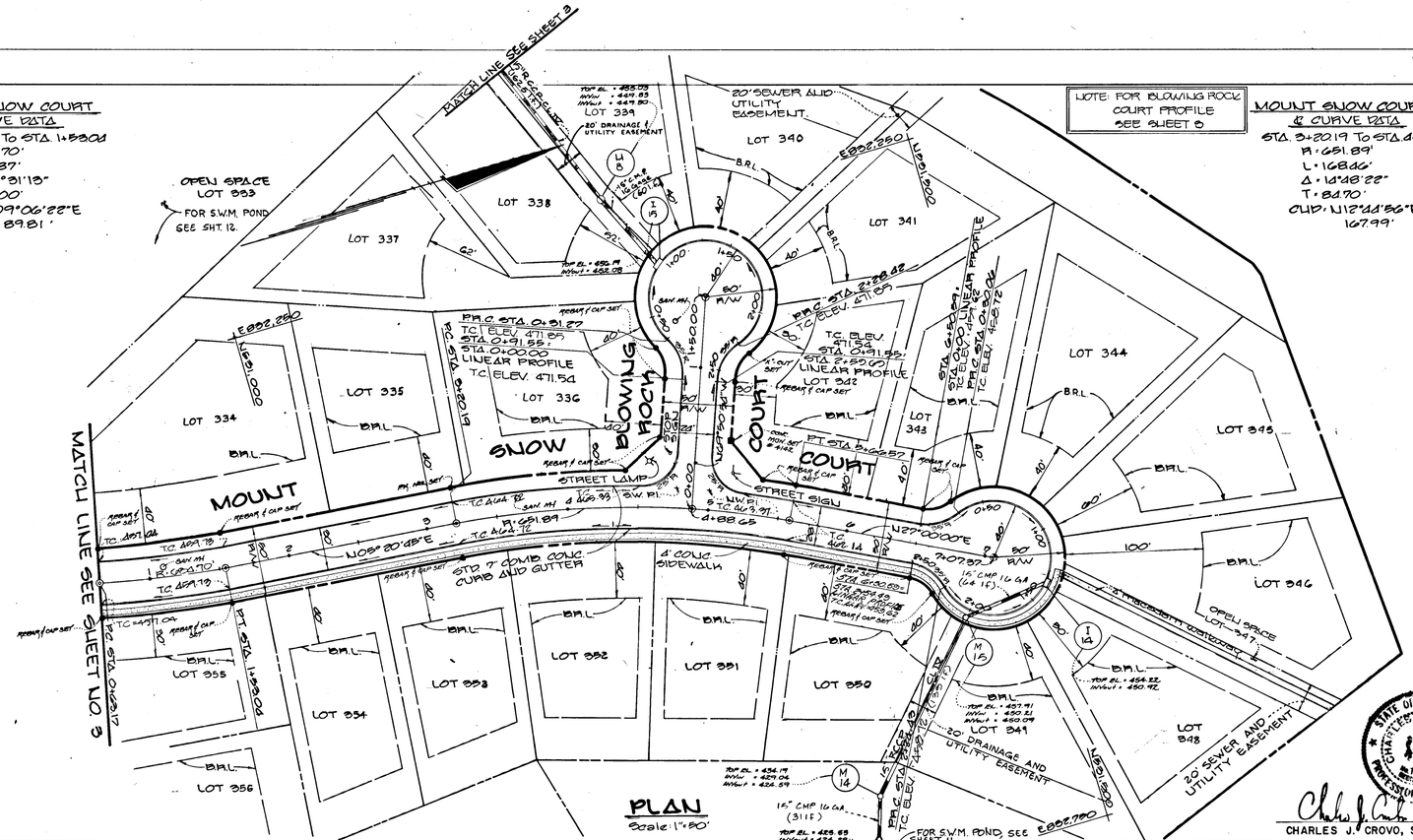
MOUNT SNOW COURT
℄ CURVE DATA
STA. 0+63.17 To STA. 1+88.06
R = 684.70'
L = 89.87'
Δ = 07°31'13"
T = 45.00'
CHD = N09°06'22"E
89.81'

NOTE: FOR BLOWING ROCK COURT PROFILE SEE SHEET 6

MOUNT SNOW COURT
℄ CURVE DATA
STA. 3+20.19 To STA. 4+88.65
R = 651.89'
L = 168.46'
Δ = 14°48'22"
T = 84.70'
CHD = N13°44'56"E
167.99'

MOUNT SNOW COURT
℄ CURVE DATA
STA. 5+20.19 To STA. 5+66.57
R = 651.89'
L = 246.38'
Δ = 21°39'15"
T = 124.67'
CHD = N16°10'22"E
244.91'





PLAN
Scale: 1" = 80'

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/1/90

Granville W. Wellwood — CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10.9.90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/16/90

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

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
R/W & UTIL.			
NOTE BOOK	STRUCTURE NOTATIONS CHK'D		
NO.			

TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 303 - 398
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

MOUNT SNOW COURT PLAN & PROFILE	BLOWING ROCK COURT PLAN

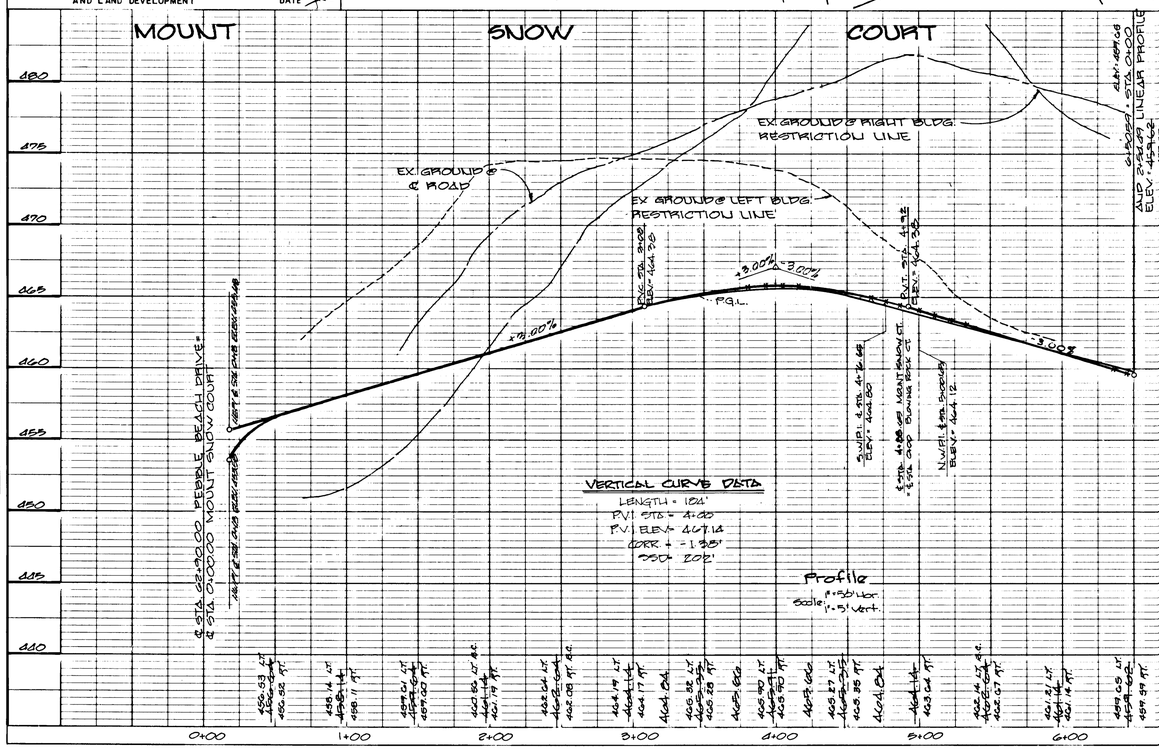
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
c/o Land Design and Development Inc
8601 Main St.
Ellicott City, Md. 21043

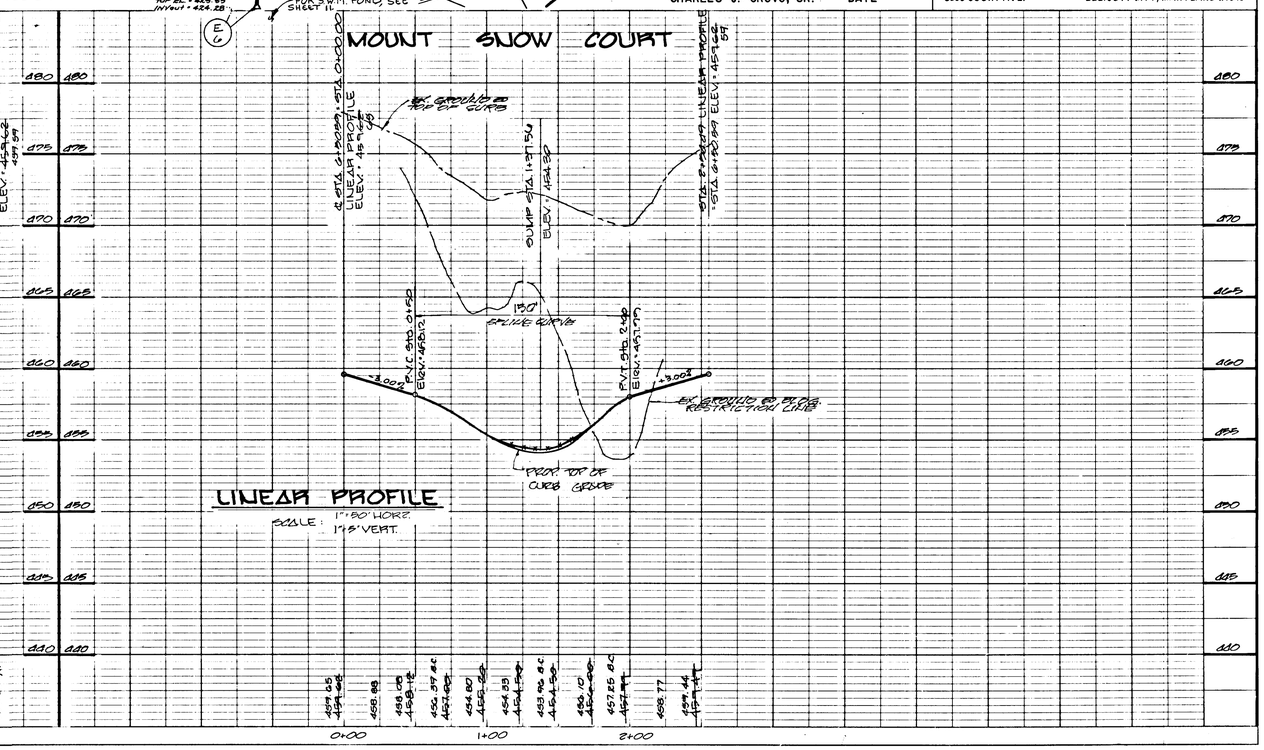
SCALE AS SHOWN	DATE June 23, 1989	DWG. NO. 6 OF 17
DES. R. ISAACS	DRN. C. BAUER	CHK. C. CROVO, SR

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

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

CHARLES J. CROVO, SR. — DATE 6/25/89



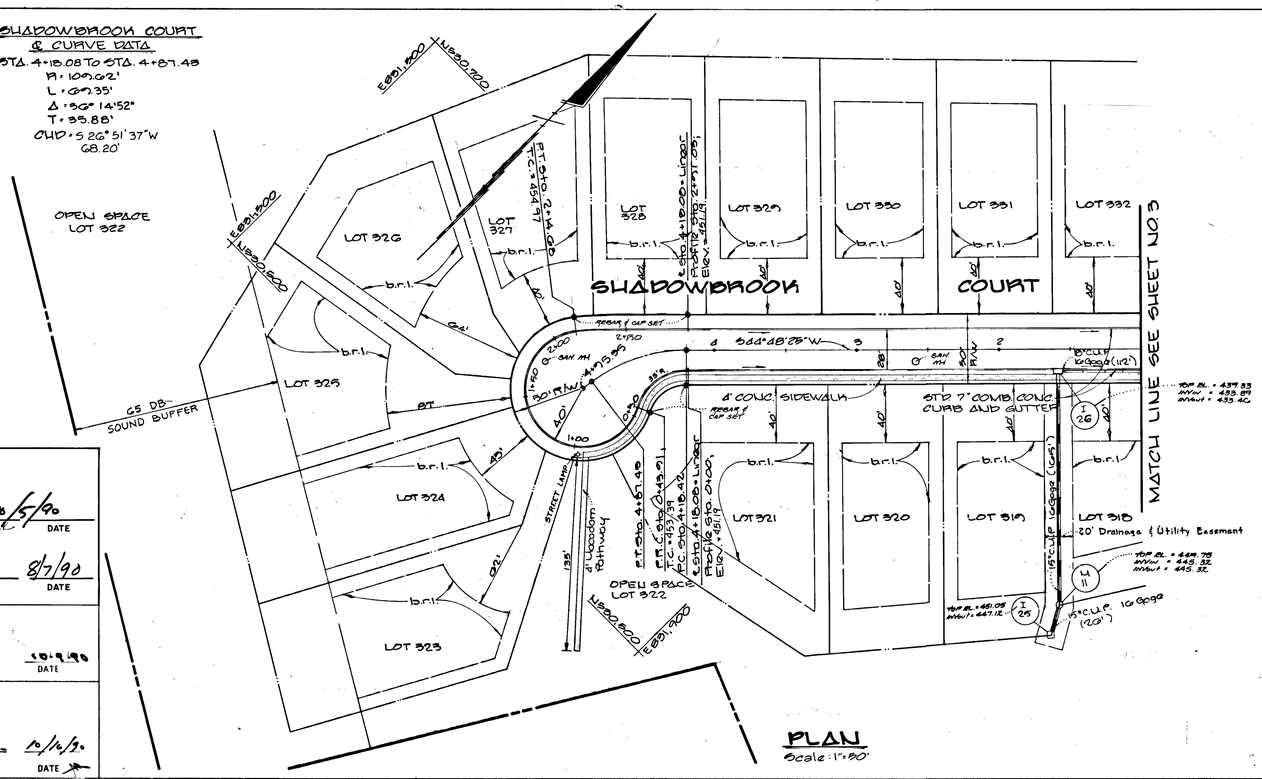


AS-BUILT 9-26-90

F 90-01

265

SHADOWBROOK COURT
℄ CURVE DATA
STA. 4+18.08 TO STA. 4+87.48
R = 100.02'
L = 69.35'
Δ = 39° 14'52"
T = 35.88'
CHD = S 26° 51' 37" W
68.20'



PLAN
Scale: 1" = 50'

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10-9-90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/11/90

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

CHARLES J. CROVO, SR. — DATE 6/25/89

TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 203 - 398
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

SHADOWBROOK COURT
PLAN AND PROFILE

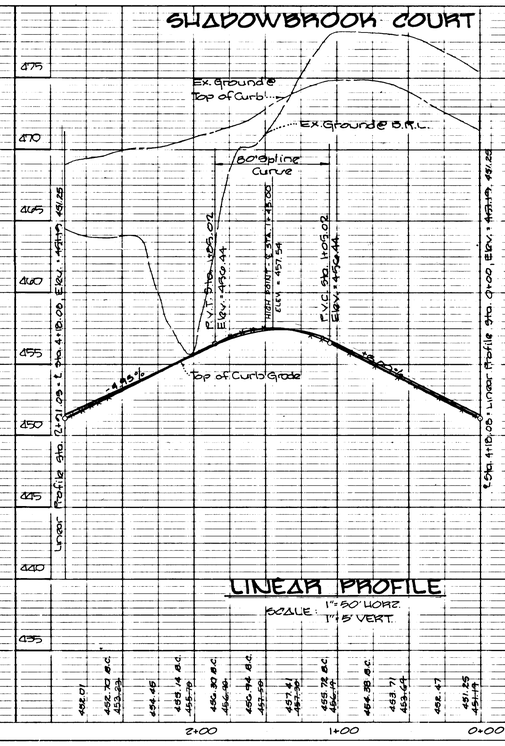
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC
8307 MAIN STREET
ELLICOTT CITY, MARYLAND 21043

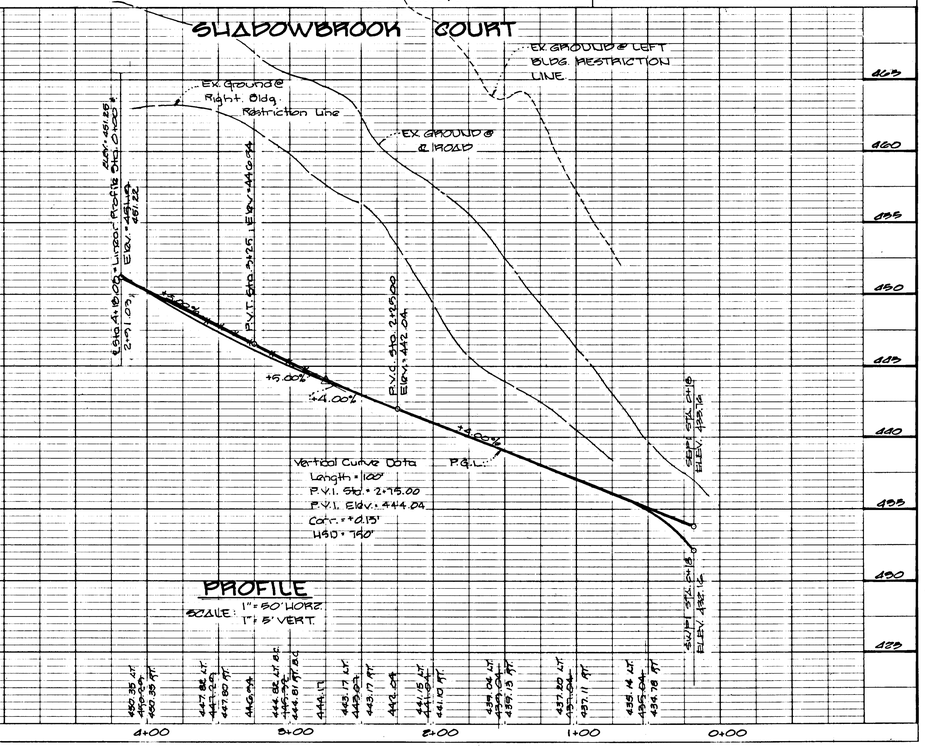
SCALE AS SHOWN	DATE JUNE 23, 1989	DWG. NO. 7 OF 17
DES. R. ISAACS	DRN. C. BAUER	CHK. C. CROVO, SR.

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

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

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





AS-BUILT 9-26-96

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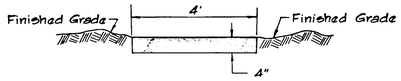
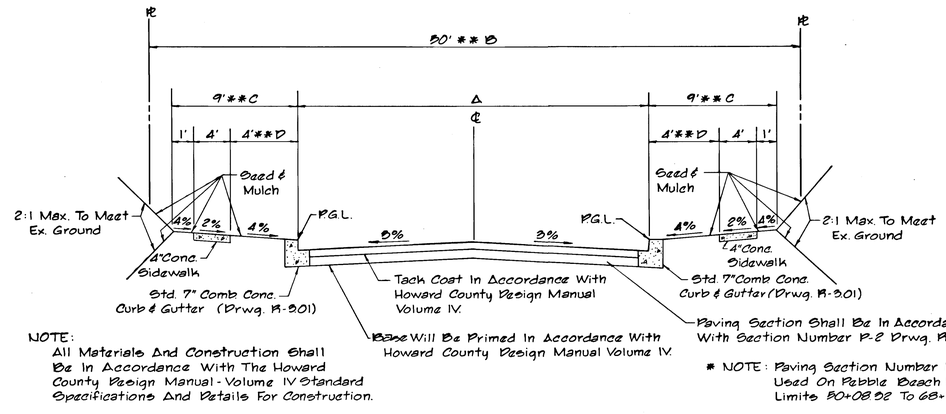


MACADAM WALKWAY DETAIL

No Scale



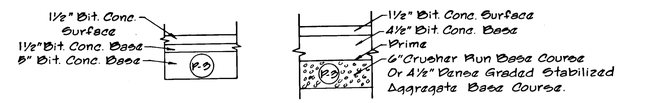
NOTE:
All Materials And Construction Shall Be In Accordance With The Howard County Design Manual - Volume IV Standard Specifications And Details For Construction.

* NOTE: Paving Section Number P-3 Shall Be Used On Pebble Beach Drive, Station Limits 50+08.32 To 68+97.85

** NOTE: Between Stations 50+08.32 To 68+97.85 Along Pebble Beach Drive B=60'; C=12'; D=7'.

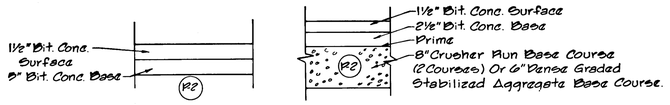
TYPICAL ROADWAY SECTION

No Scale



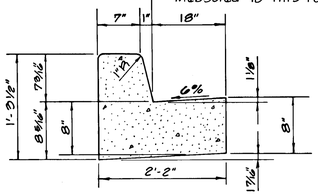
PAVING SECTION P-3

No Scale



PAVING SECTION P-2

No Scale



STANDARD SLOPE 7" COMB. CONC. CURB AND GUTTER

No Scale

ROAD NAME	CLASSIFICATION	DESIGN SPEED	ZONING	Δ	℄ STATION LIMITS
Pebble Beach Drive	Minor Collector	30	R-20	26'	50+08.32 To 68+97.85
Blowing Rock Court	Cul-de-sac	25	R-20	22'	0+00 To 0+91.55
Mount Snow Court	Local Road	30	R-20	30'	0+00 To 4+88.65
Shadow Brook Court	Cul-de-sac	25	R-20	28'	0+00 To 4+18.08
Chainite Court	Cul-de-sac	25	R-20	24'	0+00 To 1+03.28
Badgefield Court	Cul-de-sac	25	R-20	24'	0+00 To 1+31.55
Excelsior Springs Ct.	Local Road	30	R-20	30'	0+00 To 4+75.41
Beaver Lake Court	Cul-de-sac	25	R-20	28'	0+00 To 3+23.22
Poland Springs Drive	Local Road	30	R-20	30'	0+00 To 5+18.59
Mount Snow Ct.	Cul-de-sac	30	R-20	26'	4+88.65 To 6+50.59
Excelsior Springs Ct.	Cul-de-sac	30	R-20	28	4+75.41 To 9+36.37

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10-9-90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/12/90

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

CHARLES J. CROVO SR. DATE 6/25/90

TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 293 - 398
SECOND ELECTION DISTRICT
HOWARD CO MARYLAND

BLOWING ROCK COURT
PROFILES
BEAVER LAKE COURT
PROFILES

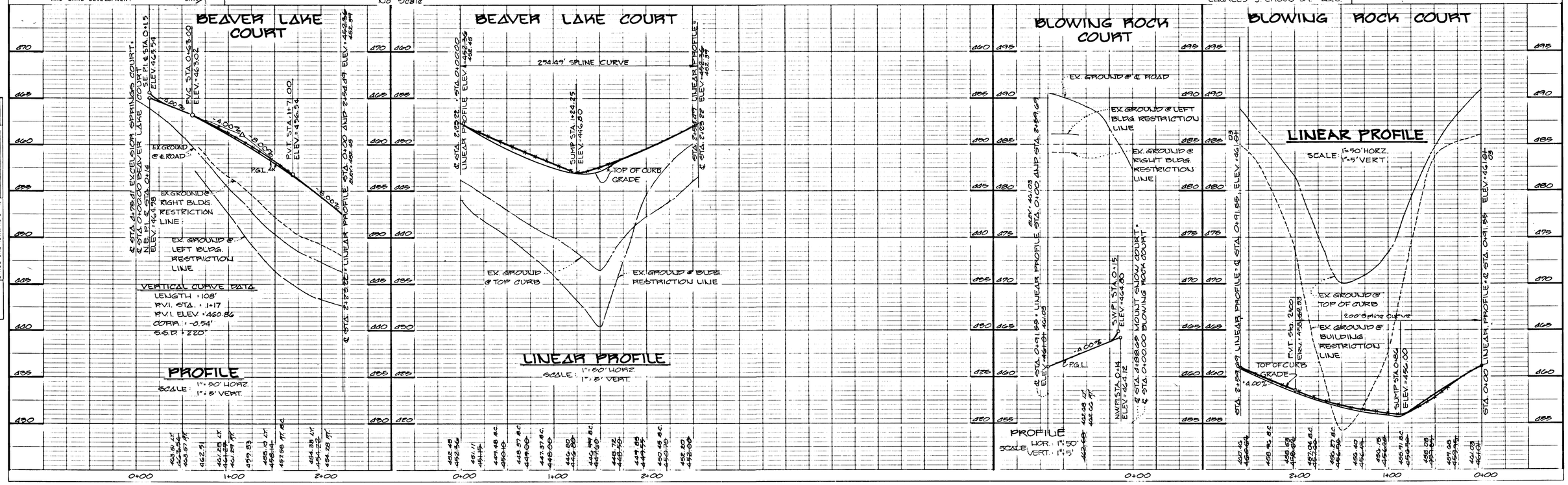
OWNER AND DEVELOPER
Paddicord Property Partnership
c/o LAND DESIGN AND DEVELOPMENT Inc.
8707 Main St.
Ellicott City Md. 21043

SCALE AS SHOWN	DATE June 23, 1989	DWG. NO. 8 OF 17
DES. R. ISAACS	DRN. C. BAUER	CHK. C. CROVO SR.

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

PLAN — SURVEYED / PLOTTED / LAYOUT CHECKED / R/W CHECKED — BY — DATE — NOTE BOOK — NO.

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



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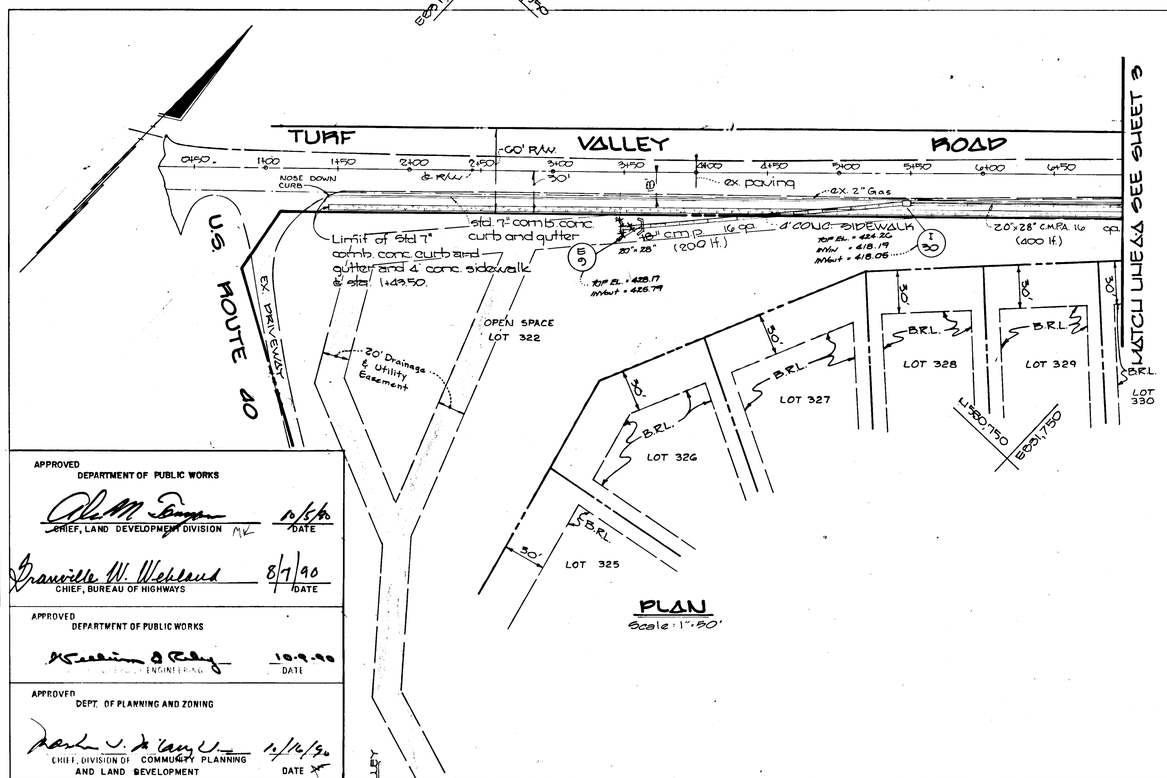
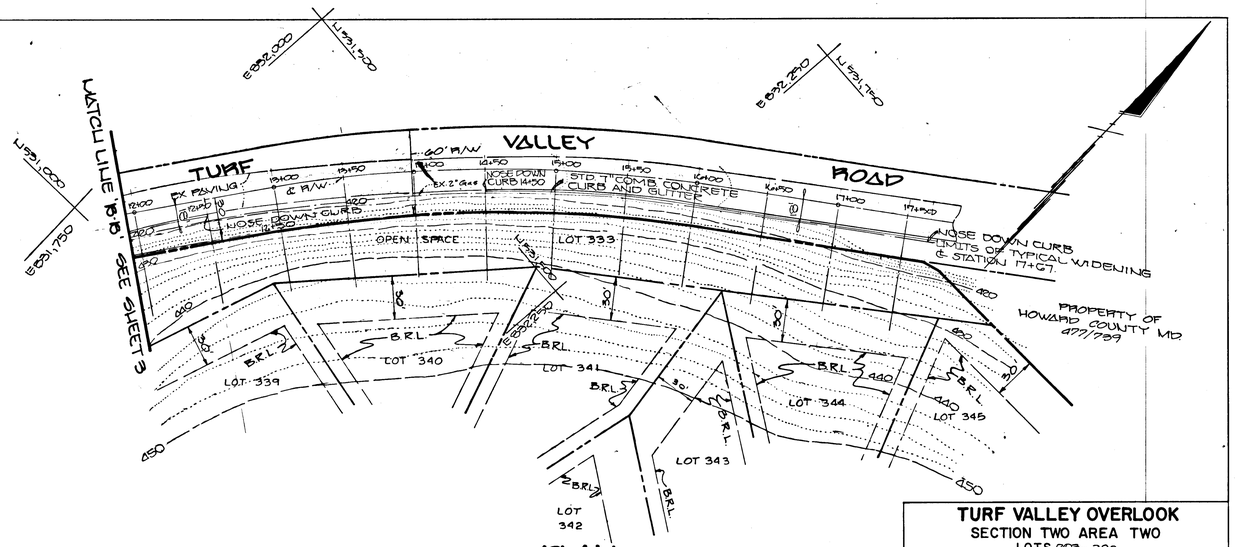




APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

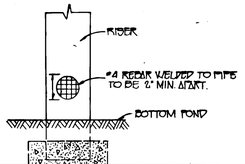
APPROVED
DEPARTMENT OF PUBLIC WORKS
ENGINEERING — DATE 10-9-90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 12/12/90

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

ORIFICE TRASH RACK DETAIL

NO SCALE



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

CHARLES J. CROVO, SR. — DATE 6/25/90

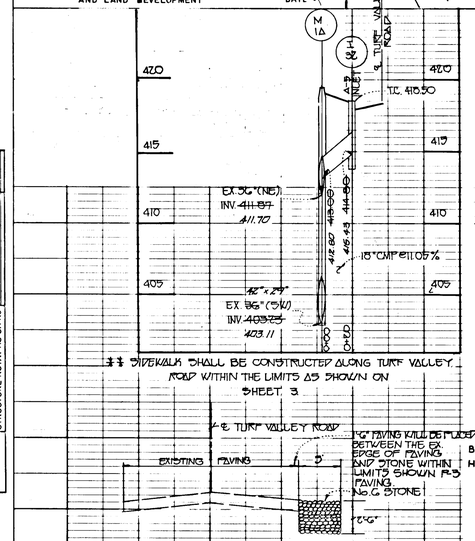
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
LOTS 323-398
SECOND ELECTION DISTRICT
HOWARD COUNTY, MD.

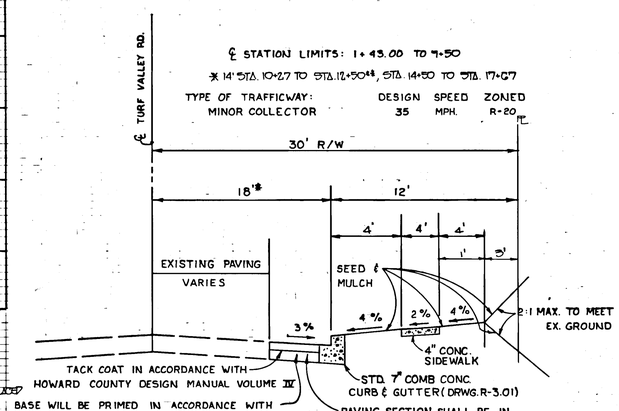
TURF VALLEY ROAD PLAN

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT
8307 MAIN STREET
ELLICOTT CITY MD. 21043

SCALE AS SHOWN	DATE JUNE 23, 1989	DWG. NO. 9 OF 17
DES. R. ISAACS	DRN. C. BAUER	CHK. C. CROVO, SR.

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

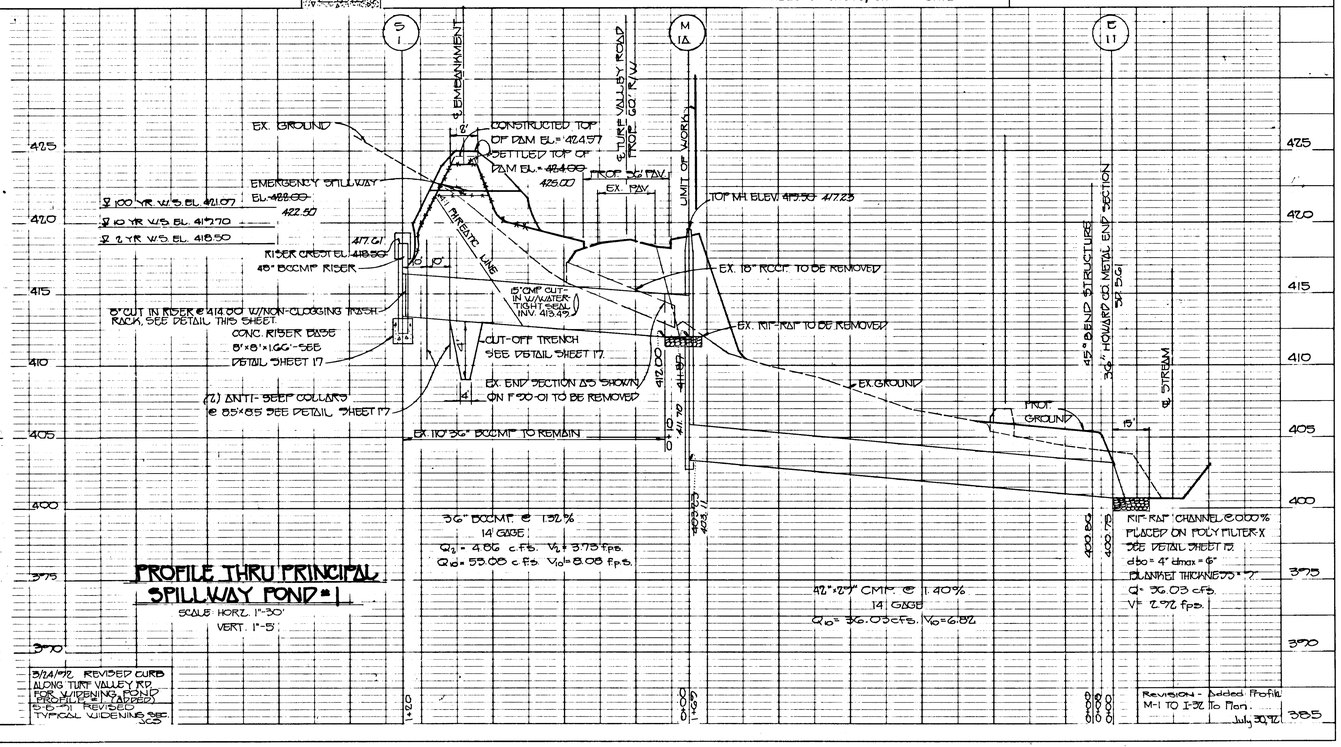




NOTE:
ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.

TURF VALLEY ROAD
TYPICAL WIDENING SECTION

NO SCALE



PROFILE THRU PRINCIPAL SPILLWAY POND #1

SCALE HORZ. 1"=30'
VERT. 1"=5'

3/24/92 REVISED CURB ALONG TURF VALLEY RD. FOR W/DENING, POND PROFILE (ADDED)
5-8-91 REVISED TYPICAL WIDENING SEE 305

Revision - Added Profile M-1 TO I-32 To Plan. July 30, 92

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

AS-BUILT 9-26-96 F90-01

206

APPROVED: DEPARTMENT OF PUBLIC WORKS

Granville W. Wehland 8/7/90

CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

10/5/90

CHIEF, LAND DEVELOPMENT DIVISION DATE

PERMANENT SEEDING NOTES:

APPLY TO GRADED OR CLEARED AREA BUT 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:
1) PREFERRED -- APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ.FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ.FT.) BEFORE SEEDING.
HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 0-0-60 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 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ.FT.) OR 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 THAT ARE 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 2 1/2 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.

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.

6/25/89

SIGNATURE OF ENGINEER 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 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".

6/27/89

SIGNATURE OF DEVELOPER DATE

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

7/18/90

U.S. SOIL CONSERVATION ~~DISTRICT~~ DATE

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

7/18/90

DISTRICT DATE
HOWARD SOIL CONSERVATION DISTRICT

APPROVED: DEPT. OF PLANNING AND ZONING

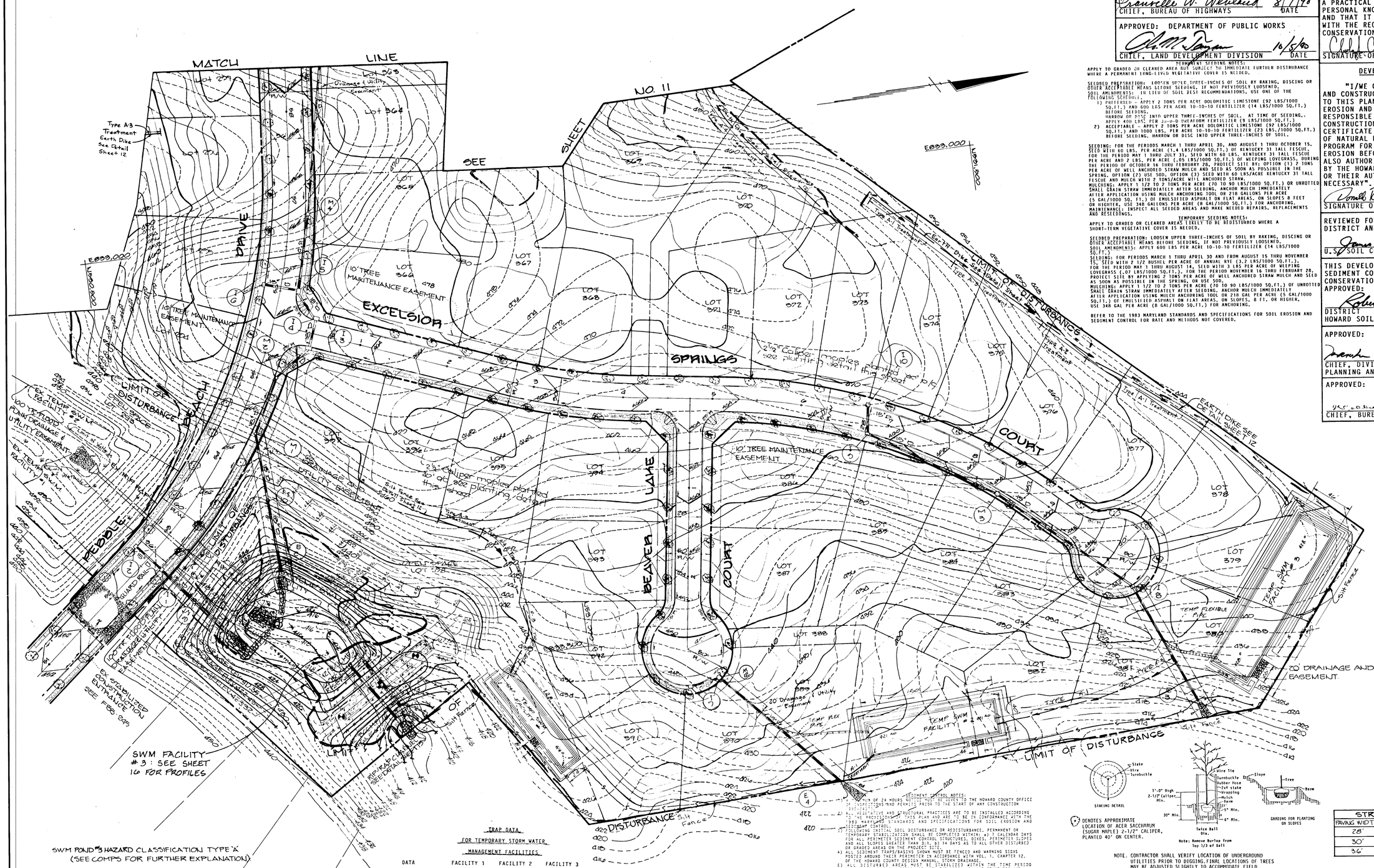
11/16/90

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

10/9/90

CHIEF, BUREAU OF ENGINEERING DATE



TRAP DATA
FOR TEMPORARY STORM WATER
MANAGEMENT FACILITIES

DATA	FACILITY 1	FACILITY 2	FACILITY 3
DRAINAGE AREA	1.68AC.±	3.38AC.±	4.93AC.±
VOLUME REQUIRED	290 CU.YDS.	597 CU.YDS.	887 CU.YDS.
VOLUME PROVIDED	293 CU.YDS.	606 CU.YDS.	894 CU.YDS.
TOP DIMENSIONS	24'X128'	40'X160'	46'X190'
BOTTOM DIMENSIONS	18'X122'	34'X144'	40'X184'
SIDE SLOPES	1:1	1:1	1:1
DEPTH	3'	5'	5'
WEIR CREST "L" DIMENSION	8'	14'	20'
WEIR CREST ELEVATION	428.00	425.50	432.00
CLEANOUT ELEVATION	426.50	423.00	429.50
BOTTOM ELEVATION	424.00	421.50	428.00
TYPE OF FACILITY	STONE OUTLET SEDIMENT TRAP	STONE OUTLET SEDIMENT TRAP	STONE OUTLET SEDIMENT TRAP

PLAN
Scale: 1"=50'

SEDIMENT CONTROL NOTES:
1) NOTICE OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
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 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.
5) 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.
6) 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.
7) SITE ANALYSIS:

TOTAL AREA OF SITE	55.315	ACRES
AREA DISTURBED	44.855	ACRES
AREA TO BE ROOFED OR PAVED	4.660	ACRES
AREA TO BE VEGETATIVELY STABILIZED	40.235	ACRES
TOTAL CUT	15,000	CU.YDS.
TOTAL FILL	14,000	CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION		CU.YDS.

8) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
10) 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.

DENOTES APPROXIMATE LOCATION OF ACER SACCHARUM (SUGAR MAPLE) 2-1/2" CALIPER, PLANTED 40' ON CENTER.

Note: Remove Burlap from top 1/3 of Ball

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.

Tree Planting Detail
not to scale

STREET TREE LOCATION DATA	
PAVING WIDTH	MIN. DISTANCE FROM TREE TO SIDEWALK
28'	1.5'
30'	1'
36'	3.5'

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1"=50' DATE: NOV. 1988
SHEET 10 OF 17

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

OWNER AND DEVELOPER
PEDDICORD PROPERTIES PART
c/o LAND DESIGN AND DEVELOPMENT, INC
8307 MAIN STREET
ELLICOTT CITY MD. 21043.

AS-BUILT 9-26-96

F90-01

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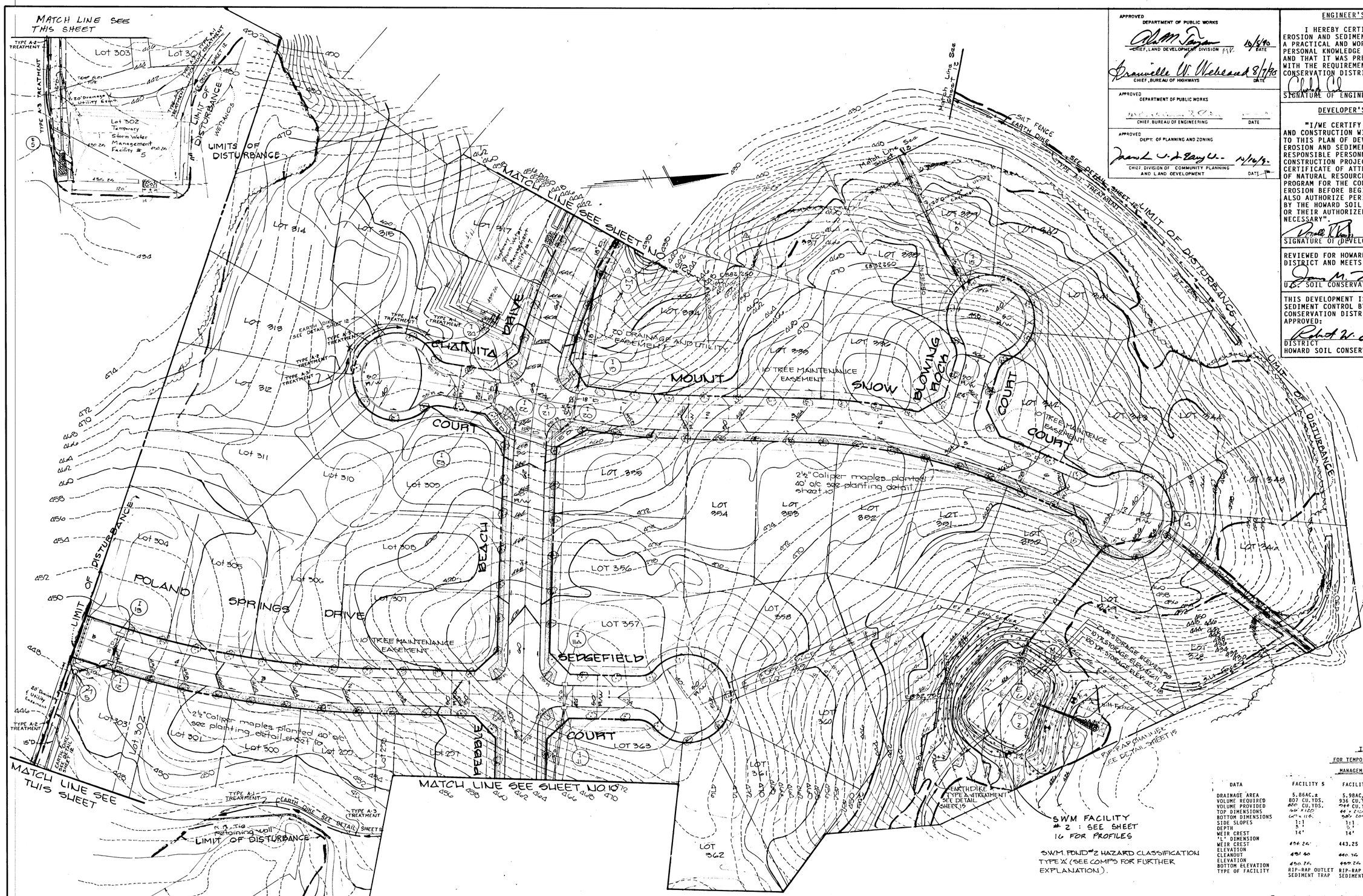


PLAN

Scale: 1"=50'

SWM FACILITY #2 : SEE SHEET 16 FOR PROFILES

SWM POND #2 HAZARD CLASSIFICATION TYPE 'A' (SEE COMP'S FOR FURTHER EXPLANATION).

TRAP DATA

FOR TEMPORARY STORM WATER MANAGEMENT FACILITIES

DATA	FACILITY 5	FACILITY 7
DRAINAGE AREA	5.86AC.±	5.98AC.±
VOLUME REQUIRED	807 CU.YDS.	936 CU.YDS.
VOLUME PROVIDED	810 CU.YDS.	944 CU.YDS.
TOP DIMENSIONS	160' x 120'	44' x 210'
BOTTOM DIMENSIONS	60' x 110'	50' x 104'
SIDE SLOPES	1:1	1:1
DEPTH	3'	3'
WEIR CREST ELEVATION	14'	14'
'L' DIMENSION		
WEIR CREST ELEVATION	454.26'	443.25
CLEANOUT ELEVATION	451.60	440.76
BOTTOM ELEVATION	450.26	439.26
TYPE OF FACILITY	RIP-RAP OUTLET SEDIMENT TRAP	RIP-RAP OUTLET SEDIMENT TRAP

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90
CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/10/90

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 6/25/89

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 6/27/89

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

U.S. SOIL CONSERVATION ~~DISTRICT~~ — DATE 7/18/90

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

DISTRICT — DATE 7/18/90
HOWARD SOIL CONSERVATION DISTRICT

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

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

NUM.	DATE	DESCRIPTION
1	3/25/92	REVISED GRADING ON LOTS 334 & 337

REVISION

OWNER AND DEVELOPER
PEDDICORD PROPERTY PART.
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN ST.
ELLICOTT CITY MD. 21043

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1"=50' NOVEMBER 11, 1988
SHEET 11 OF 17

AS-BUILT 9-26-96

F90-01

265

CONSTRUCTION SEQUENCE

1. SEDIMENT CONTROL MEASURES ARE TO BE REMOVED ONLY AFTER RECEIVING PERMISSION FROM THE SEDIMENT CONTROL INSPECTOR.
2. OBTAIN GRADING PERMIT.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE. STORM WATER MANAGEMENT PONDS AND TEMPORARY STORM WATER MANAGEMENT FACILITIES AS SHOWN. STABILIZE THE STORM WATER MANAGEMENT PONDS AND TEMPORARY STORM WATER MANAGEMENT FACILITIES WITH TEMPORARY SEEDING. INSTALL EARTH DIKES AS SHOWN ON PLAN.
4. GRADE ROADS TO SUBGRADE.
5. CONSTRUCT STORM DRAIN SYSTEM.
6. 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.
7. SEDIMENT SHALL BE REMOVED FROM THE STORM WATER MANAGEMENT PONDS AND TEMPORARY STORM WATER MANAGEMENT FACILITIES WHEN THE CLEANOUT ELEVATIONS HAVE BEEN REACHED.
8. THE TEMPORARY STORM WATER MANAGEMENT FACILITIES AND STORM WATER MANAGEMENT PONDS SHALL BE DEWATERED BY PUMPING.
9. REMOVE SEDIMENT FROM ROADWAYS AND DRESS STONE CONSTRUCTION ENTRANCE AS REQUIRED.
10. FLUSH STORM DRAIN SYSTEM TO REMOVE ANY TRAPPED SEDIMENT.
11. REMOVE STONE CONSTRUCTION ENTRANCE. CLEAN BASE COURSE. APPLY TACK COAT TO BASE COURSE AND LAY SURFACE COURSE.
12. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
13. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN a) 7 CALENDAR DAYS FOR PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; b) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
14. COMPLETE STABILIZATION OF ALL DISTURBED AREAS SHALL BE DONE PRIOR TO REMOVAL OF ALL SEDIMENT CONTROLS.
15. NOTIFY HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS FOR FINAL INSPECTION AT DURATION OF PROJECT.

STORMWATER MANAGEMENT FACILITIES

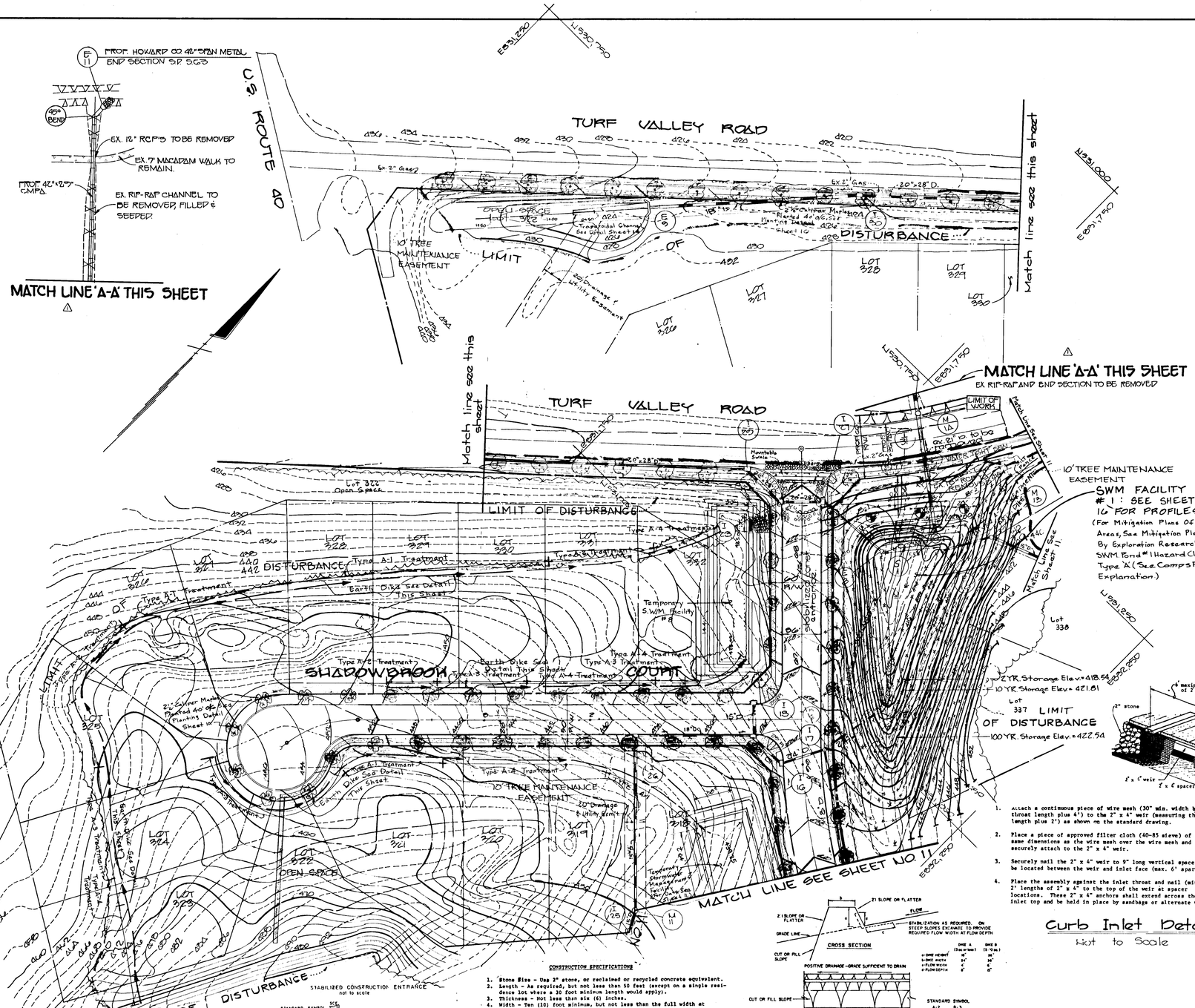
POND NO.	CLEANOUT ELEVATION
1	417.43
2	424.50
3	419.95

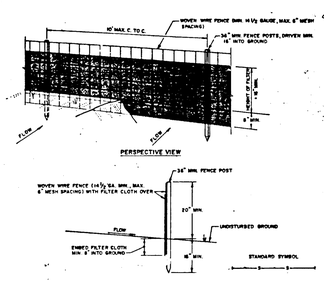
TRAP DATA

FOR TEMPORARY STORM WATER

MANAGEMENT FACILITIES

DATA	FACILITY 8
DRAINAGE AREA	2.34AC.±
VOLUME REQUIRED	419 CU.YDS.
VOLUME PROVIDED	424 CU.YDS.
TOP DIMENSIONS	30'X144'
BOTTOM DIMENSIONS	24'X138'
SIDE SLOPES	1:1
DEPTH	3'
WEIR CREST 'L' DIMENSION	10'
WEIR CREST ELEVATION	429.00
CLEANOUT ELEVATION	426.50
BOTTOM ELEVATION	425.00
TYPE OF FACILITY	STONE OUTLET SEDIMENT TRAP





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 OVER-LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

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

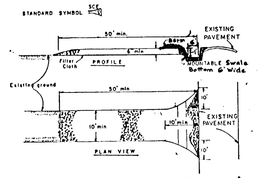
FENCE: WOVEN WIRE, 14½ GA. 6" MAX. MESH OPENING

FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINGA T130X OR APPROVED EQUAL

PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

Silt Fence

Not to Scale



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 trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES MAY BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. 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.
6. 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 THE CHART BELOW.

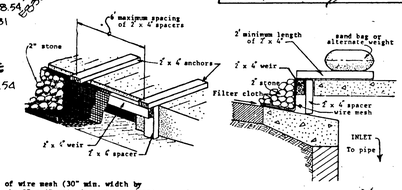
FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	DIKE A	DIKE B
1	.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE, OR EXCELSIOR; SOD; 2" STONE
3	5.1-8.0%	SEED WITH JUTE, OR SOD; 2" STONE	LINED RIP-RAP 4-8"
4	8.1-20%	LINED RIP-RAP 4-8"	ENGINEERING DESIGN

A. STONE TO BE 2 INCH STONE, OR RECYCLED CONCRETE EQUIVALENT, IN A LAYER AT LEAST 3 INCHES IN THICKNESS AND BE PRESSED INTO THE SOIL WITH CONSTRUCTION EQUIPMENT.
B. RIP-RAP TO BE 4-8 INCHES IN A LAYER AT LEAST 8 INCHES THICKNESS AND PRESSED INTO THE 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 EVENT.

Earth Dike

Not to Scale



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.

Curb Inlet Detail

Not to Scale

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 6/25/91

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 6/27/89

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

U.S. SOIL CONSERVATION ~~DISTRICT~~ — DATE 7/18/90

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

DISTRICT HOWARD SOIL CONSERVATION DISTRICT — DATE 7/18/90

APPROVED: DEPT. OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/16/90

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF ENGINEERING — DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

APPROVED: DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — DATE 8/8/90

No.	DATE	DESCRIPTION
1	3/26/92	REVISED MPS FROM S-1 TO B11.

REVISIONS

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

OWNER AND DEVELOPER
PEDDICORD PROPERTY PART.
C/O LAND DESIGN AND DEVELOPMENT, INC.
8307 MAIN ST.
ELLICOTT CITY MD 21043

STREET TREE, GRADING AND SEDIMENT CONTROL PLAN
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1"=50' NOVEMBER 11, 1980
SHEET 12 OF 17

AS-BUILT 9-26-90

F 90-01

215

APPROVED
DEPARTMENT OF PUBLIC WORKS
Granville W. Wickland 8/7/90
CHIEF, BUREAU OF HIGHWAYS DATE

10-9-90
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
10/5/90
CHIEF LAND DEVELOPMENT DIVISION DATE

APPROVED
DEPT. OF PLANNING AND ZONING
10/4/90
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

OWNER AND DEVELOPER
PEDDICORD PROPERTY PART.
c/o LAND DESIGN AND DEVELOPMENT inc.
8307 MAIN ST.
ELLICOTT CITY MD. 21043

STATE OF MARYLAND
CHARLES J. CROVO
No. 13204
PROFESSIONAL ENGINEER
CHARLES J. CROVO SR. 6/25/90 DATE

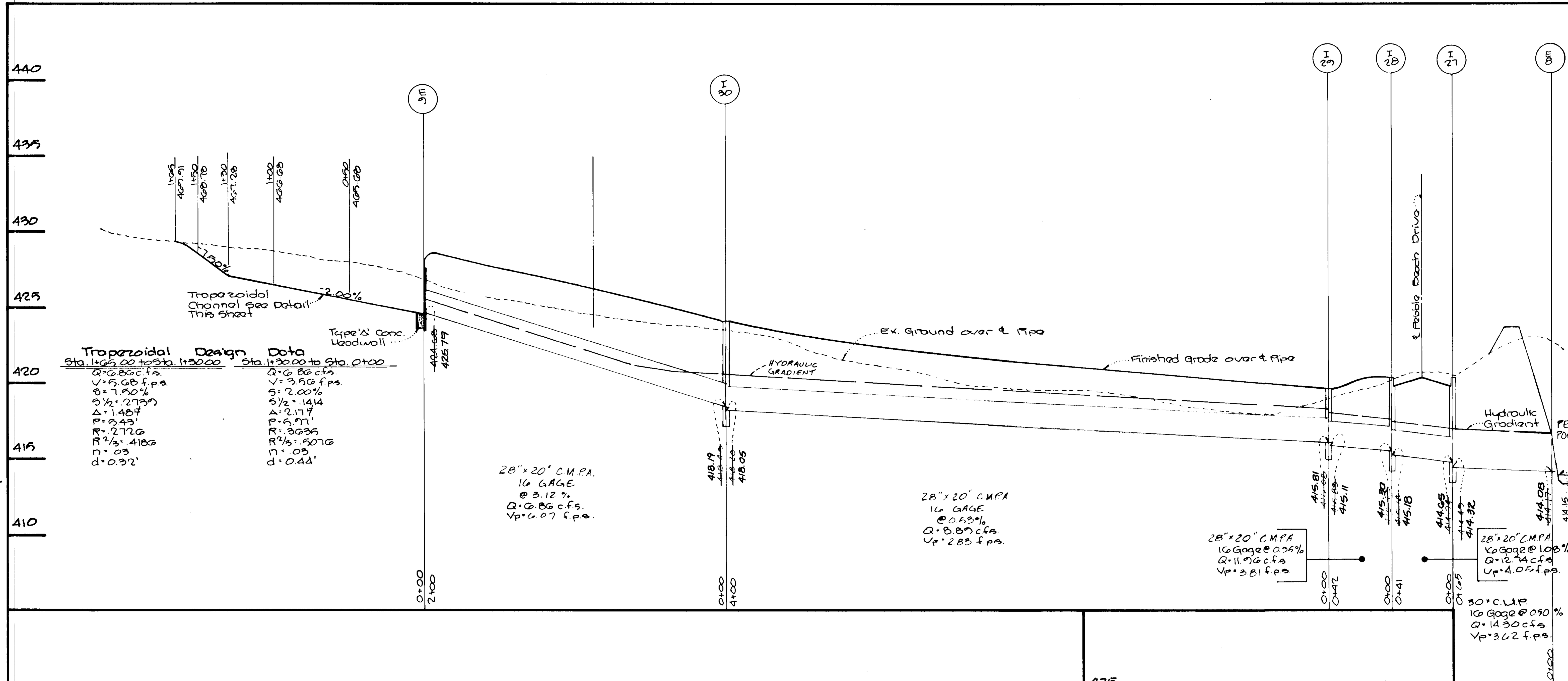
DRAINAGE AREA MAP
TURF VALLEY OVERLOOK
SECTION 2 AREA 2
LOTS 293-398

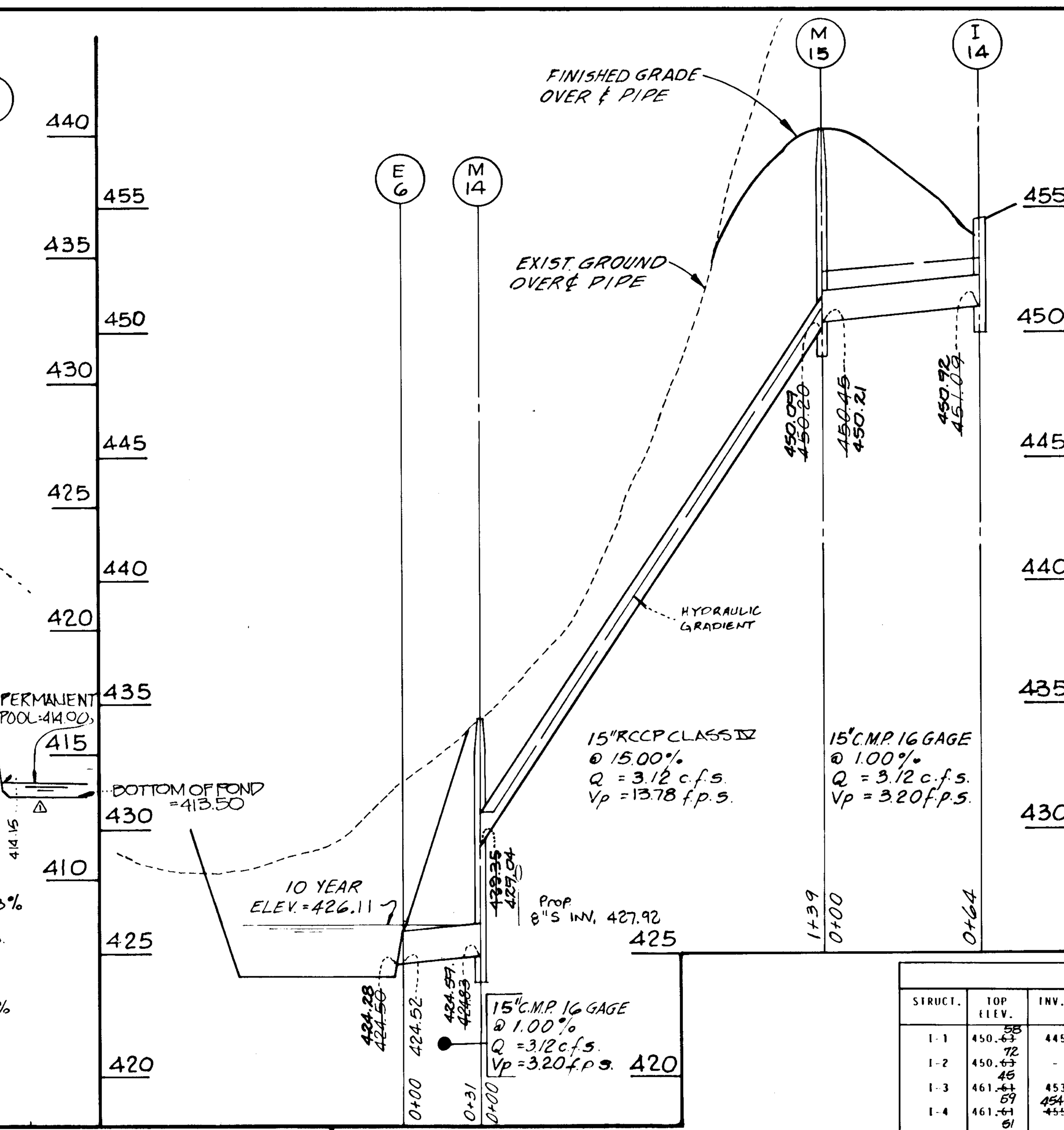
SECOND ELECTION DIST. HOWARD CO MD.
SCALE AS SHOWN DATE: JUNE 23, 1988
SHEET 13 OF 17

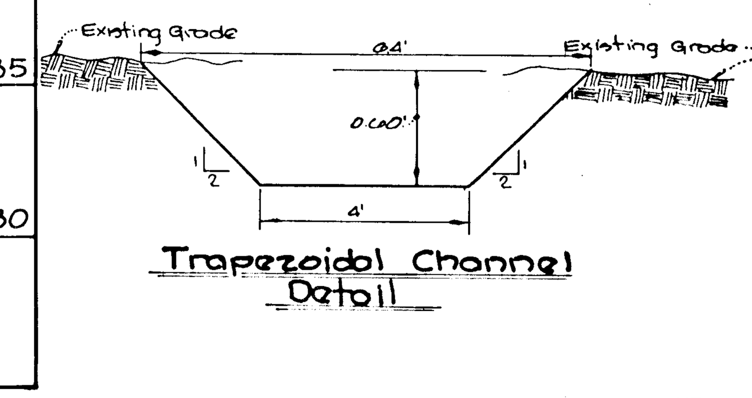
FISHER, COLLINS, AND CARTER, INC.
CIVIL ENGINEERS & LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043

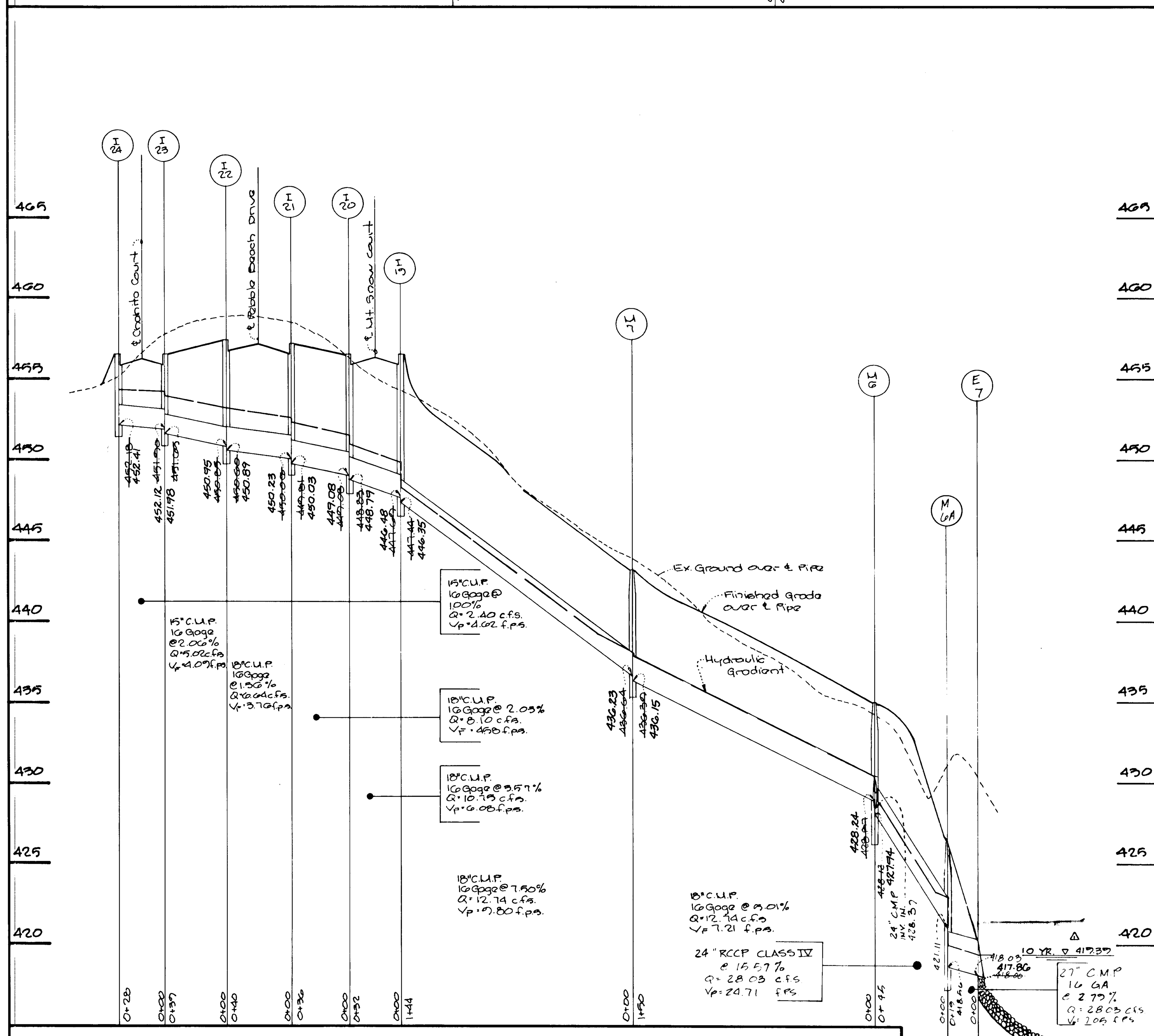
F90-01

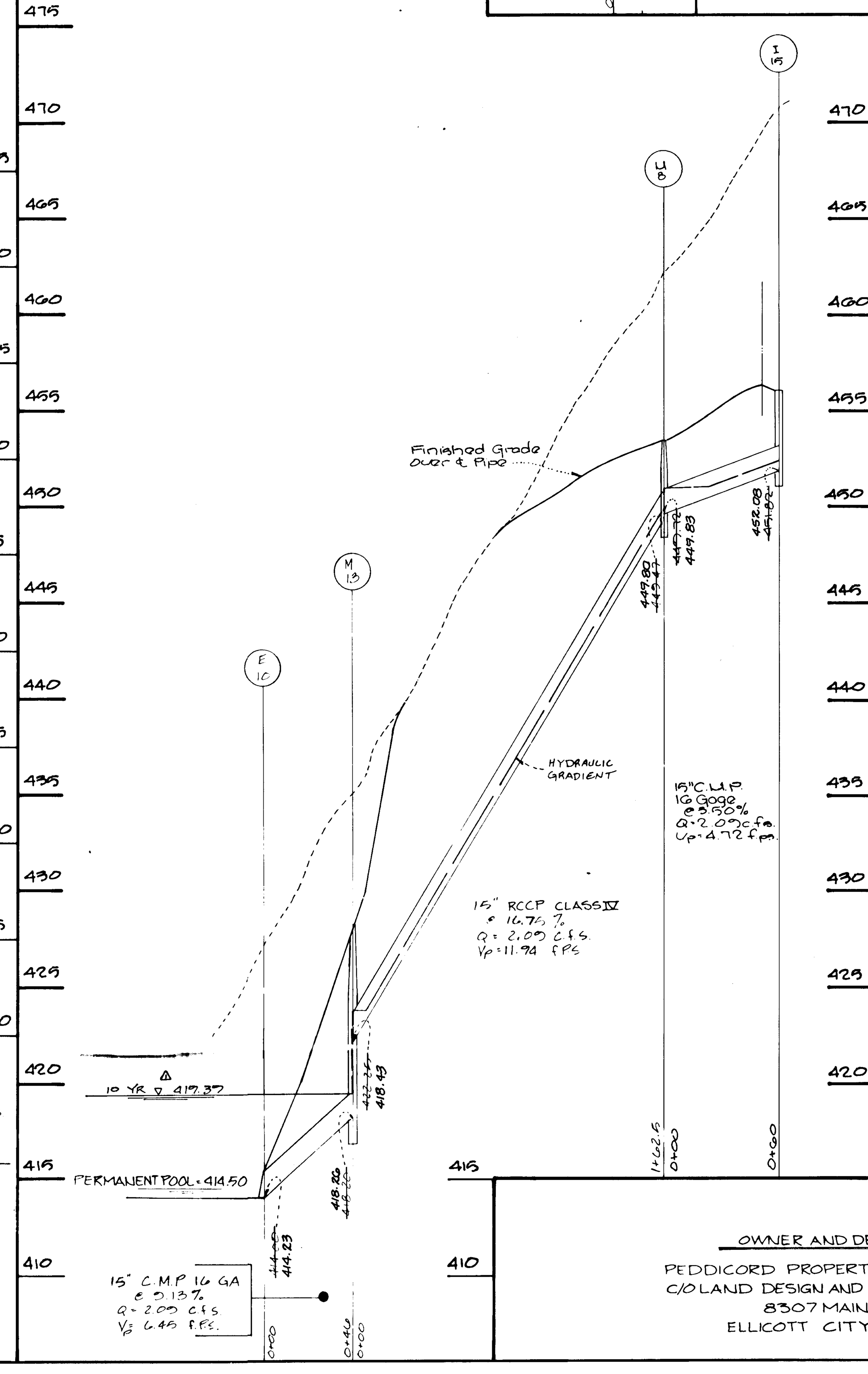
296











APPROVED
DEPARTMENT OF PUBLIC WORKS
10/5/90
CHIEF, LAND DEVELOPMENT DIVISION DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
Granville W. Wehland 8/7/90
CHIEF, BUREAU OF HIGHWAYS DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
10-9-90
CHIEF, BUREAU OF ENGINEERING DATE

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

STRUCTURE SCHEDULE								
STRUCT.	TOP ELEV.	INV. IN.	INV. OUT	ROAD	ROAD STATION	OFFSET	TYPE	REMARKS
I-1	450.58	445.54	442.42	PEBBLE BEACH DRIVE	52+64	RT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-2	450.72	- -	446.09	PEBBLE BEACH DRIVE	52+64	LT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-3	461.45	453.77	453.58	EXCELSIOR SPRINGS CT.	0+46.00	RT.15'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-4	461.59	454.83	454.74	EXCELSIOR SPRINGS CT.	0+46.00	LT.15'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-5	461.51	456.10	456.07	PEBBLE BEACH DRIVE	56+07	RT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-6	461.57	- -	457.42	PEBBLE BEACH DRIVE	56+07	LT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-7	447.80	- -	442.60	BEAVER LAKE COURT	L.P. STA. 1+24.25	- -	A-5	S.D.-4.01
I-8	440.93	434.60	434.34	EXCELSIOR SPRINGS CT.	L.P. STA. 1+47.50	- -	A-5	S.D.-4.01
I-9	461.16	456.63	456.53	EXCELSIOR SPRINGS CT.	6+81	RT.14'	A-5	S.D.-4.01
I-10	461.30	- -	456.98	EXCELSIOR SPRINGS CT.	6+73	LT.14'	A-10 W/ DEFLECTORS	S.D.-4.02& S.D.-4.83
I-11	472.74	467.65	467.41	SEDGEFIELD COURT	0+46.00	RT.12'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-11A	472.89	- -	468.83	SEDGEFIELD COURT	0+46.00	LT.12'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-12	454.53	448.13	447.74	POLAND SPRINGS CT.	4+70.50	RT.15'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-13	454.43	- -	448.56	POLAND SPRINGS CT.	4+68.00	LT.15'	A-10 W/ DEFLECTORS	S.D.-4.02& S.D.-4.83
I-14	454.22	- -	450.92	MOUNT SNOW COURT	L.P. STA. 1+37.56	- -	A-5	S.D.-4.01
I-15	456.19	- -	452.08	BLOWING ROCK COURT	L.P. STA. 0+84.00	- -	A-5	S.D.-4.01
I-16	435.18	429.33	429.16	PEBBLE BEACH DRIVE	66+03	LT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-17	434.95	430.29	430.17	SHADOWBROOK COURT	0+46.00	LT.14'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-18	434.79	- -	430.98	SHADOWBROOK COURT	0+46.00	RT.14'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-19	456.43	446.48	446.35	MOUNT SNOW COURT	0+46.50	LT.15'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-20	456.47	449.08	448.79	MOUNT SNOW COURT	0+46.50	RT.15'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-21	457.69	450.23	450.03	PEBBLE BEACH DRIVE	62+47.00	RT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-22	457.40	450.95	450.89	PEBBLE BEACH DRIVE	62+50.00	LT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-23	456.54	452.12	451.98	CHAINITA COURT	0+43	LT-12'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-24	456.39	- -	452.41	CHAINITA COURT	0+43	RT.12'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-25	451.05	- -	447.12	- - -	- -	- -	'D' INLET* MODIFIED	S.D.-4.11
I-26	439.33	433.89	433.46	SHADOWBROOK COURT	1+57.30	LT.12'	A-10 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-27	420.67	414.65	414.32	PEBBLE BEACH DRIVE	68+46.85	RT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-28	420.66	415.30	415.18	PEBBLE BEACH DRIVE	68+46.85	LT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
I-29	419.71	415.81	415.71	TURF VALLEY ROAD	9+41.50	RT.18'	A-5	S.D.-4.01
I-30	424.26	418.19	418.05	TURF VALLEY ROAD	5+50.00	RT.18'	A-5 W/ DEFLECTORS	S.D.-4.01& S.D.-4.83
M-1	454.97	446.31	446.24	PEBBLE BEACH DRIVE	54+44	RT.21'	STANDARD MANHOLE	G-5.12
M-2	457.57	449.71	449.50	PEBBLE BEACH DRIVE	55+09	RT.20'	STANDARD MANHOLE	G-5.12
M-3	454.06	447.49	447.40	EXCELSIOR SPRINGS CT.	8+46	RT.17'	STANDARD MANHOLE	G-5.12
M-4	465.05	460.22	460.12	PEBBLE BEACH DRIVE	56+89	RT.22'	STANDARD MANHOLE	G-5.12
M-5	451.46	446.18	443.50	POLAND SPRINGS DR.	5+08.59	LT.41'	STANDARD MANHOLE	G-5.12
M-6	434.81	428.24	427.94	PEBBLE BEACH DRIVE	66+14.00	RT.22'	STANDARD MANHOLE	G-5.12
M-6A	~~476.10~~	~~421.11~~	~~418.56~~	PEBBLE BEACH DRIVE	66+38.00	RT.58'	STANDARD MANHOLE	G-5.12
M-7	443.01	436.23	436.15	PEBBLE BEACH DRIVE	64+57.00	RT.22'	STANDARD MANHOLE	G-5.12
M-8	455.03	449.83	449.80	- - -	- -	- -	STANDARD MANHOLE	G-5.12
M-9	437.27	431.77	430.56	PEBBLE BEACH DRIVE	52+63.33	RT.70'	STANDARD MANHOLE	G-5.12
M-10	447.38	431.80	431.63	PEBBLE BEACH DRIVE	53+88.00	RT.69'	STANDARD MANHOLE	G-5.12
M-11	449.76	445.32	445.32	- - -	- -	- -	STANDARD MANHOLE	G-5.12
M-12	447.85	442.02	441.90	BEAVER LAKE COURT	L.P. STA. 0+94.25	- -	STANDARD MANHOLE	G-5.12
M-13	431.93	418.43	418.26	-----------	--------	- -	STANDARD MANHOLE	G-5.12
M-14	434.19	429.04	424.59	MOUNT SNOW COURT	6+57.50	RT.179'	STANDARD MANHOLE	G-5.12
M-15	457.91	450.21	450.09	MOUNT SNOW COURT	L.P. STA 2+00.00	- -	STANDARD MANHOLE	G-5.12
E-1	421.95	~~420.35~~	420.70	PEBBLE BEACH DRIVE	52+63.33	RT.122'	STND.CONC. END SECTION	S.D.-5.51
E-2	419.77	~~418.75~~	418.27	PEBBLE BEACH DRIVE	53+40.50	RT.122'	STND.CONC. END SECTION	S.D.-5.51
E-3	418.28	~~417.20~~	417.03	EXCELSIOR SPRINGS CT.	L.P. STA. 1+47.50	LT.147'	STND.METAL END SECTION	S.D.-5.61
E-4	427.86	~~423.43~~	426.61	BEAVER LAKE COURT	L.P. STA. 0+94.25	LT.192'	STND.METAL END SECTION	S.D.-5.61
E-5	~~435.75~~	~~434.50~~	~~434.40~~	POLAND SPRINGS DR.	5+06.50	LT.289'	STND.METAL END SECTION	S.D.-5.61
E-6	425.53	~~424.52~~	424.08	MOUNT SNOW COURT	6+62.00	RT.208'	STND.METAL END SECTION	S.D.-5.61
E-7	420.11	~~418.03~~	417.86	PEBBLE BEACH DRIVE	66+50.00	RT.73'	STND.METAL END SECTION	S.D.-5.61
E-8	416.58	414.08	------	PEBBLE BEACH DRIVE	68+03.00	RT.72'	STND.METAL END SECTION	S.D.-5.61
E-9	429.79	- -	425.79	TURF VALLEY ROAD	3+48.00	RT.39'	TYPE 'A' HEADWALL	S.D.-5.11
E-10	415.48	~~414.00~~	414.23	-----------	-------	-----	STND.METAL END SECTION	S.D.-5.61
E-11	403.17	~~400.75~~	400.75	TURF VALLEY ROAD	11+04.50	LT.203	STND.METAL END SECTION	S.D.-5.63
E-12	423.27	~~422.50~~	422.27	-----------	--------	----	STND.METAL END SECTION	S.D.-5.61
E-13	411.90	~~410.00~~	408.40	-----------	--------	----	STND.METAL END SECTION	S.D.-5.61
M-1Δ	417.23	411.70	403.11	TURF VALLEY RD.	11+14.00	LT.23'	STD. MANHOLE	G-5.12

*-DENOTES OPENINGS ON ALL FOUR (4) SIDES

NOTE:
1) Vp = DENOTES PARTIAL FLOW VELOCITY
2) Vf = DENOTES FULL FLOW VELOCITY
3) STORM DRAIN BEDDING TYPE CLASS "C" TO BE USED.

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8388 COURT AVENUE
ELLICOTT CITY, MARYLAND 21043
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No.	DATE	DESCRIPTION
Δ	9/26/96	REVISED POND BL. E-8, 10 YR. HG. ELEV. M-13A & M-6 AND STRUCTURE SCHEDULE

REVISIONS

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN STREET
ELLICOTT CITY, MD 21043

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

6/25/89
CHARLES J. CROVO SR.

STORM DRAIN PROFILES
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN JUNE 23, 1989
SHEET 14 OF 17

AS-BUILT 9-26-96 F90-01

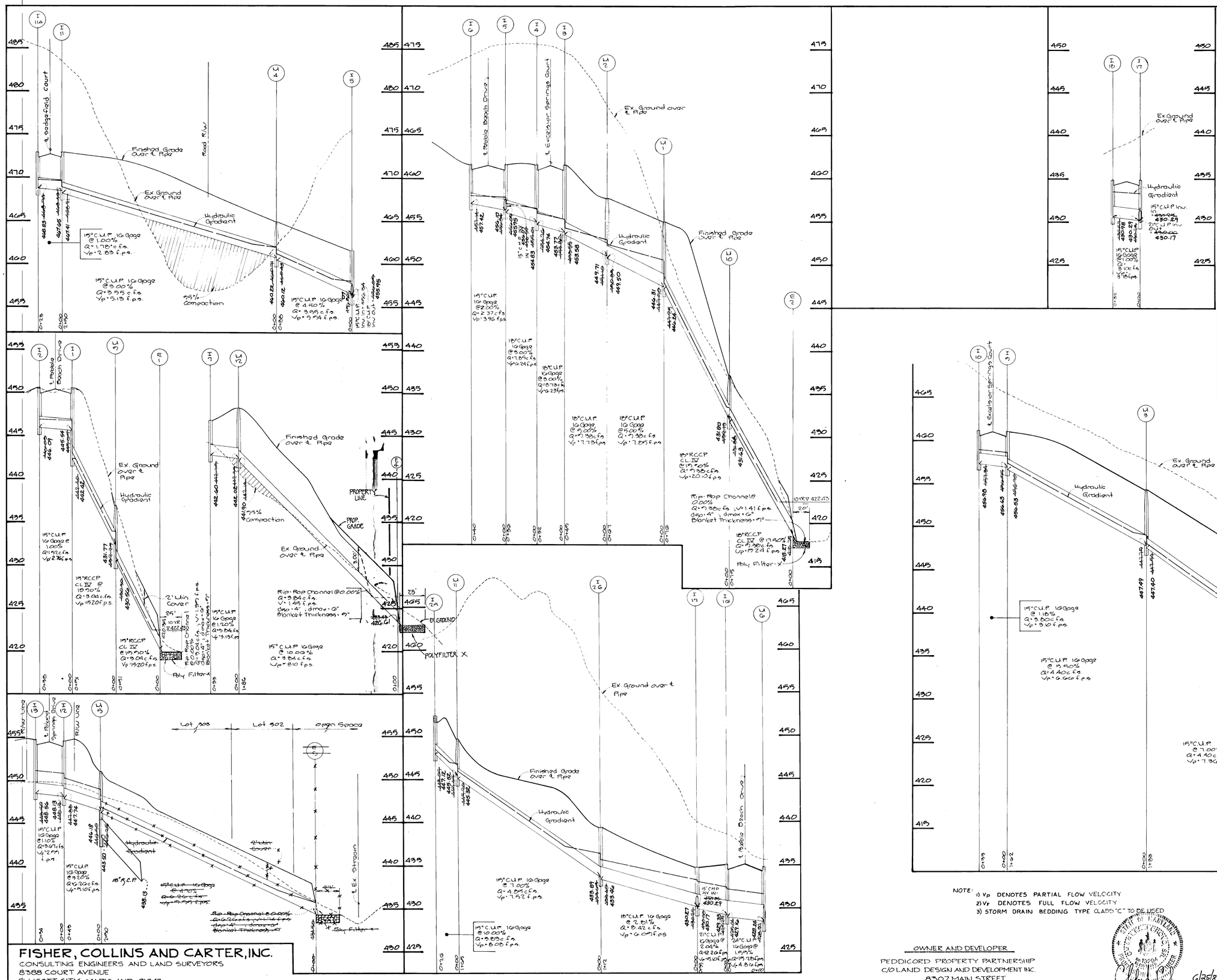
265

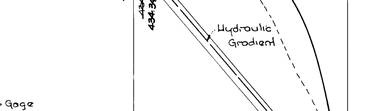
APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90

APPROVED
DEPARTMENT OF PUBLIC WORKS
Granville W. Wellard — 8/7/90
CHIEF, BUREAU OF HIGHWAYS — DATE

APPROVED
DEPARTMENT OF PUBLIC WORKS
CHIEF, BUREAU OF ENGINEERING — DATE 10-2-90

APPROVED
DEPT. OF PLANNING AND ZONING
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/4/90





RIP RAP CHANNEL DETAIL
NO SCALE

RIP-RAP CHANNEL DESIGN DATA

STRUCT.	Q	P	R	R 2/3	S	S 1/2	n	V (n=.5)	V (n=.04)	d	w	RIP-RAP SIZE d50	dmax	D
E-1	2.38	6.75'	.3870	.5294	0.50%	.0707	.04	3.24	3.39	0.28'	8.0'	4"	6"	9"
E-2	5.32	7.38'	.3936	.5354	0.50%	.0707	.04	3.22	3.37	0.38'	8.0'	4"	6"	9"
E-3	1.77	7.07'	.3794	.5211	0.50%	.0707	.04	3.38	3.70	0.34'	8.0'	4"	6"	9"
E-4	2.92	6.33'	.3739	.5138	0.50%	.0707	.04	3.34	3.65	0.52'	8.0'	4"	6"	9"
E-5	3.32	7.22'	.3829	.5641	0.50%	.0707	.04	5.26	5.74	0.72'	8.0'	4"	6"	9"
E-7	3.72	7.58'	.3844	.5153	2.50%	.1536	.04	28.33	8.08	0.60'	8.0'	6"	9"	14"
E-11	13.27	14.23'	.9325	.9543	0.50%	.0707	.04	32.44	2.50	1.17'	7.0'	4"	6"	9"
E-12	2.20	5.41'	.4067	.5473	0.50%	.0707	.04	3.13	3.44	0.54'	8.0'	4"	6"	9"
E-13	19.50	6.71'	.1167	.2109	0.50%	.0707	.04	35.41	2.31	3.50'	8.0'	4"	6"	9"

NOTE:
1) Vp DENOTES PARTIAL FLOW VELOCITY
2) VF DENOTES FULL FLOW VELOCITY
3) STORM DRAIN BEDDING TYPE CLASS "C" TO BE USED

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER — CHARLES J. CRONO JR. — No. 13201
6/25/89

FISHER, COLLINS AND CARTER, INC.
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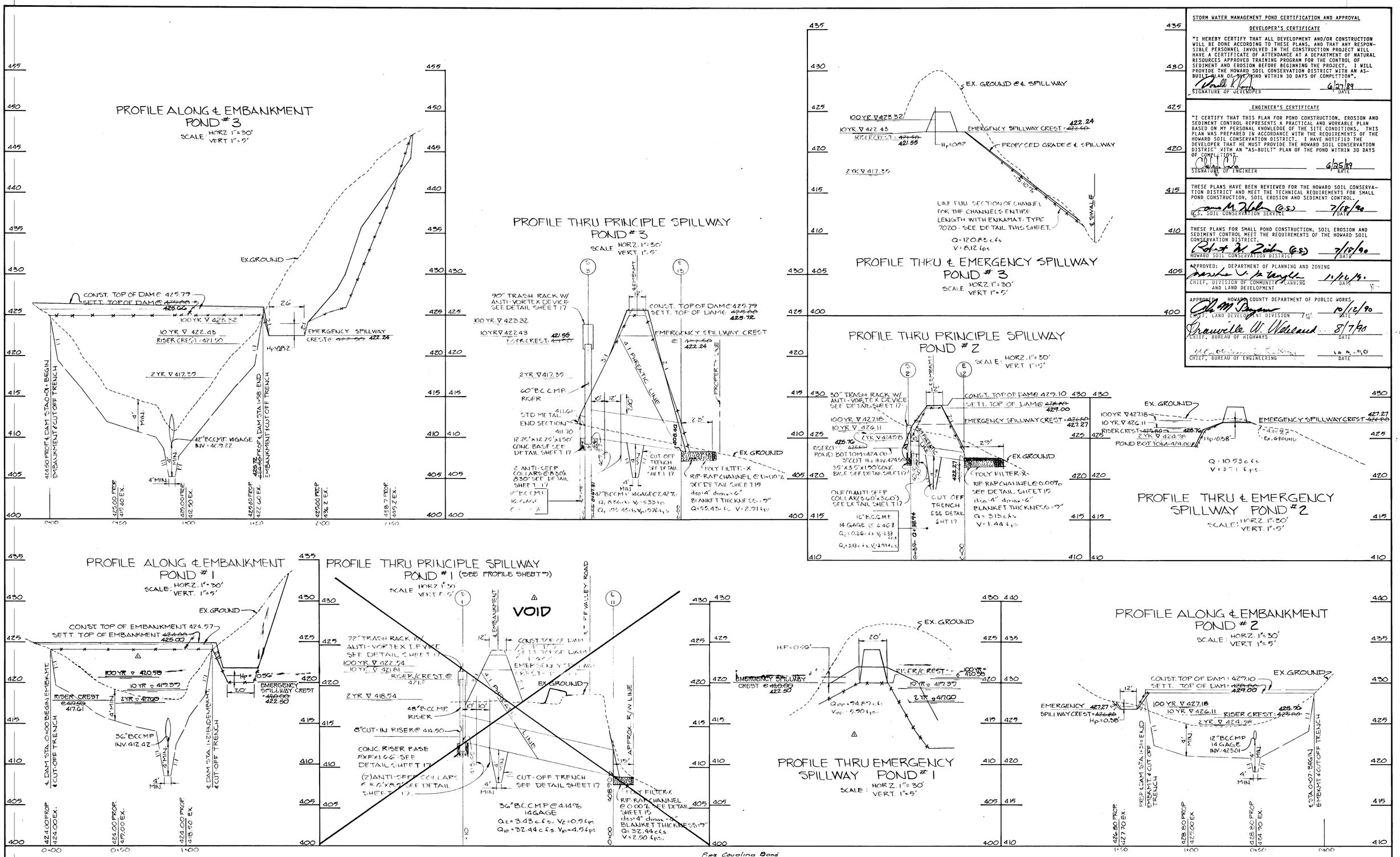
OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN STREET
ELLICOTT CITY, MD. 21043

STORM DRAIN PROFILE
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN JUNE 23, 1989
SHEET 15 OF 17

AS-BUILT 9-26-90

F 90-01

246



STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE

"I HEREBY 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".

SIGNATURE OF DEVELOPER — DATE 6/27/89

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION".

SIGNATURE OF ENGINEER — DATE 6/25/89

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

U.S. SOIL CONSERVATION SERVICE — DATE 7/18/90

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 7/18/90

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 11/6/89

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/2/90

CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

CHIEF, BUREAU OF ENGINEERING — DATE

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

No.	DATE	DESCRIPTION
1	3/96	REVISED ALL PROFILES ON POND #1

REVISION

OWNER AND DEVELOPER
PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN STREET
ELLICOTT CITY, MD. 21043

STORM WATER MANAGEMENT PROFILES
TURF VALLEY OVERLOOK
SECTION TWO AREA TWO
2nd ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN JUNE 23, 1989
SHEET 16 OF 17

AS-BUILT 9-20-96

F90-01

POND SPECIFICATIONS

I. SITE PREPARATION

Areas under the embankment and structural works shall be cleared, grubbed and the topsoil stripped to remove all trees, vegetation, roots or other objectionable material. To facilitate clean out and restoration, it is recommended that the permanent pool area be cleared of all brush and trees.

II. EARTH FILL

Material

The fill material shall be taken from approved designated borrow area or areas. It shall be free from roots, stumps, wood, rubbish, oversize stones, frozen or other objectionable materials. The embankment shall be constructed to an elevation which provides for anticipated settlement to the design elevation. The fill height all along the length of the embankment shall be increased at least 10 percent above the design elevation (including freeboard) unless otherwise shown on the plans. All fill material shall be CL or ML, as approved by Soils Engineer.

Placement

Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in 8-inch maximum thickness (before compaction) layers which are to be continuous over the entire length of the fill. The most porous borrow material shall be placed in the downstream portions of the embankment.

Core Trench

Where specified, a core trench shall be excavated along or parallel to the centerline of the embankment, as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation with the minimum width being 4-feet. The depth shall be at least 4-feet or as shown on the plans. The side slopes of the trench shall be 1:1 or flatter. The backfill material for the core trench shall be the most impervious material available and shall be compacted with equipment or rollers to assure maximum density and minimum permeability. Compact to 95% of AASHTO T-99 density. Materials shall be CL or ML as approved by Soils Engineer.

III. STRUCTURAL BACKFILL

Backfill material shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed 4-inches in thickness and compacted by hand tampers or other compaction equipment. The material needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than 4-feet to any part of a structure. Under no circumstances shall the contractor drive equipment over any part of a structure or pipe unless there is a compacted fill of 2-feet or greater over the structure or pipe.

IV. PIPE CONDUITS

A. CORRUGATED METAL PIPE

1. Materials - Metal Pipe - This pipe and its appurtenances shall conform to the requirements of AASHTO Specification M-196 or M-211, with watertight coupling bands.
2. Connections - All connections with pipes must be completely watertight. The drain pipe or barrel connection to the control structure shall be mortared all around. Watertight coupling bands shall be used at all joints. Anti-seep collars shall be connected to the pipe in such a manner as to be completely watertight.
3. Bedding - The pipe shall be firmly and uniformly bedded throughout its entire length. Where rock or soft, spongy or other unstable soil is encountered, all such material shall be removed and replaced with suitable earth compacted to provide adequate support.
4. Laying pipe - The pipe shall be placed with inside circumferential laps pointing downstream and with the longitudinal laps at the sides.
5. Backfilling shall conform to structural backfill as shown above.
6. Other details (anti-seep collars, valves, etc.) shall be as shown on the drawings.

V. CONCRETE

Concrete shall meet minimum requirements set forth in Maryland State Highway Administration Specifications for Materials, Highways, Bridges, and Incidental Structures, Article 20.07 (Portland Cement Concrete Mixtures), Mix No. 3.

VI. STABILIZATION

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway and borrow areas shall be stabilized by permanent seeding and applying straw mulch in accordance with "Standards and Specifications for Soil Erosion and Sediment Control in Urbanizing Areas" immediately after finish grading.

Fertilizer:	10-10-10	@ 11.5 lbs./1000 sq.ft.
Seed:	Crownvetch inoculated	@ 0.5 lbs./1000 sq.ft.
	"KY-31" Tall Fescue	@ 1.0 lbs./1000 sq.ft.
Mulch:	Straw	@ 80 lbs./1000 sq.ft.
Asphalt Tie-down:	Slopes	@ 8 gal./1000 sq.ft.
	Flat areas	@ 5 gal./1000 sq.ft.

VII. FENCING

A 3'-6" chain-link fence shall be constructed in the location specified on the plan. Materials and construction shall be in accordance with Maryland State Highway Administration Standard Details 690.01 and 690.02.

OPERATION AND MAINTENANCE SPECIFICATIONS

I HEREBY CERTIFY THAT I WILL OPERATE AND MAINTAIN THE COMPLETED POND IN ACCORDANCE WITH THE FOLLOWING:

1. PERIODIC INSPECTIONS OF THE FACILITY WILL BE MADE TO IDENTIFY POTENTIAL PROBLEMS THAT MAY AFFECT ITS SAFETY. THESE INSPECTIONS WILL BE MADE AFTER PERIODS OF HEAVY RAINFALL AND AT LEAST TWICE ANNUALLY. INSPECTION REPORTS SHALL BE KEPT UNTIL THE NEXT SUBSEQUENT INSPECTION. INSPECTIONS ITEMS TO BE LOOKED AT INCLUDE
   - a) SPILLWAY AND OUTLET WORKS;
   - b) RIP-RAP;
   - c) VEGETATIVE COVER;
   - d) CRACKS IN THE FILL;
   - e) SLOPE FAILURES; AND
   - f) SEEPAGE AND OTHER SIGNS OF DISTRESS.
2. PROBLEMS IDENTIFIED DURING INSPECTIONS WILL BE PROMPTLY CORRECTED. MAJOR PROBLEMS WILL BE BROUGHT TO THE ATTENTION OF THE SOIL CONSERVATION DISTRICT AND THE DAM SAFETY DIVISION OF THE MARYLAND WATER RESOURCES ADMINISTRATION. AS A VERY MINIMUM, GRASSY VEGETATION WILL BE MAINTAINED IN A DENSE AND HEALTHY STATE, AND WOODY VEGETATION WILL NOT BE PERMITTED TO GROW ON THE EMBANKMENT.

Notes:
1. All pipe joints shall be water-tight.
2. All welds shall be continuous around the Diameter of the Pipe

FISHER, COLLINS AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
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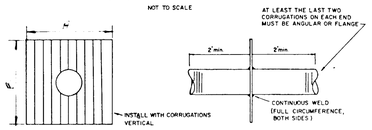
ELLICOTT CITY, MARYLAND 21043

ANTI-SEEP COLLAR DIMENSIONS

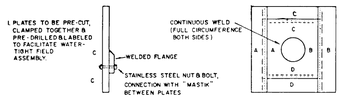
POND	A	B
1	8.50'	8.50'
2	3.60'	3.60'
3	8.30'	8.30'

TYPICAL ANTI-SEEP COLLARS

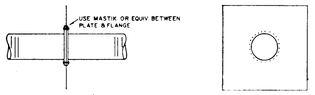
NOT TO SCALE



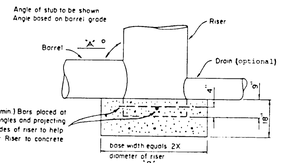
COLLAR WELDED IN PLACE ON BARREL SECTION



MULTI-PIECE COLLAR FOR LARGE PIPES



COLLAR FOR FLANGE JOINT PIPE



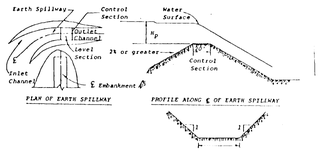
RISER BASE DETAIL

RISER BASE DETAIL DIM.

POND	CONC. BASE 'B'	ANGLE 'X'
1	8.5'	92°22'54"
2	3.5'	91°24'35"
3	12.25'	91°23'51"

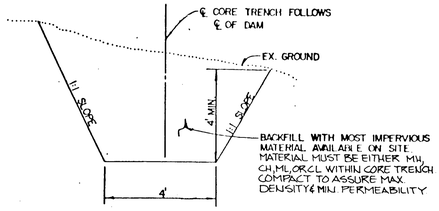
NOTES:

1. The concrete base shall be poured in such a manner to ensure that the concrete fills the bottom of the riser to the invert of the outlet pipe to prevent the riser from breaking away from the base.
2. With aluminum or aluminized pipe, the embedded section must be painted with zinc chromate or equivalent.
3. Riser base may be sized as computed using flotation with a factor of safety of 1.2.



ALL EXPOSED AREAS OF THE EMBANKMENT AND POND SHALL BE STABILIZED BY:

A. SPREADING 4" TOPSOIL (INCLUDING BOTTOM OF POND)
B. WORKING IN 1 TON OF GROUND LIMESTONE AND 1,000 POUNDS OF 10-10-10 FERTILIZER PER ACRE (INCLUDING BOTTOM OF POND).
C. SEED WITH 40 LBS/ACRE OF "KENTUCKY 31" TALL FESCUE, AND 15 LBS./ACRE OF CROWNVETCH INOCULATED.
D. MULCH WITH 1 1/2 TONS STRAW PRE ACRE.
E. TIE DOWN MULCH WITH EMULSIFIED ASPHALT @ 34B GALLONS/ACRE.

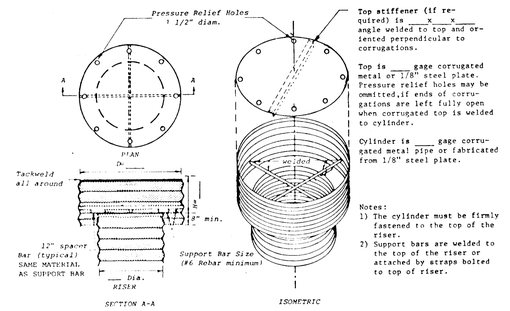


CORE TRENCH DETAIL

NO SCALE

TRASH RACK DATA

POND	RISER DIA.	TRASH RACK DIA.	HEIGHT	TOP STIFFNER	TOP GA.	CYLINDER GA.	MIN. SUPPORT BAR SIZE
1	48"	72"	21"	—	10 GA.	12 GA.	1½" PIPE OR 1½"×1½"×1/4" ANGLE
2	18"	27"	8"	—	16 GA.	16 GA.	#6 REBAR
3	60"	90"	25"	—	8 GA.	12 GA.	1½" PIPE OR 1½"×1½"×1/4" ANGLE



Top stiffener (if required) is ___x___x___ angle welded to top and oriented perpendicular to corrugations.

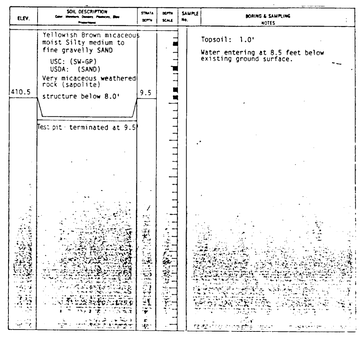
Top is ___ gage corrugated metal or 1/8" steel plate. Pressure relief holes may be ommitted, if ends of corrugations are left fully open when corrugated top is welded to cylinder.

Cylinder is ___ 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
(not to scale)

B-1



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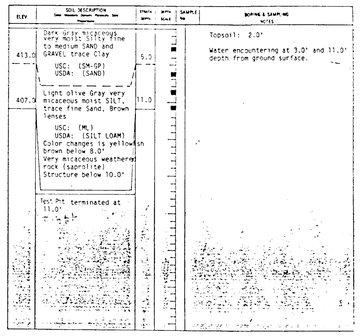

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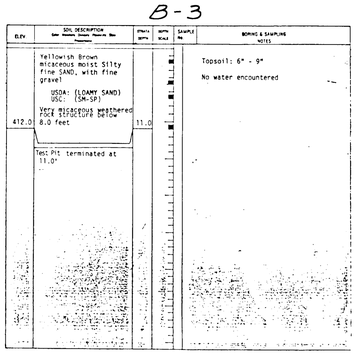

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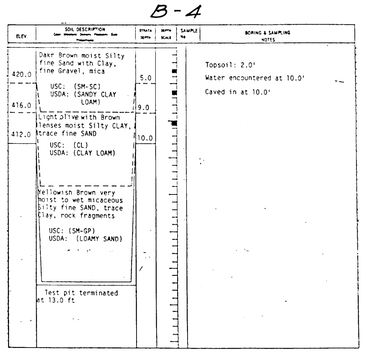

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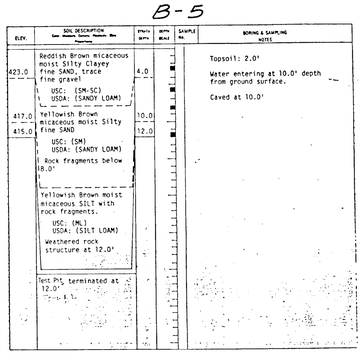

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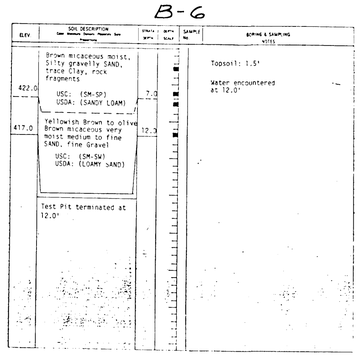

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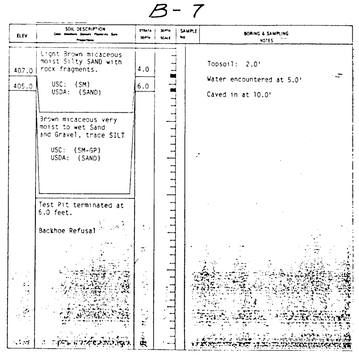

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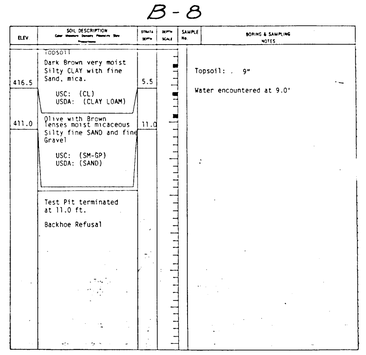

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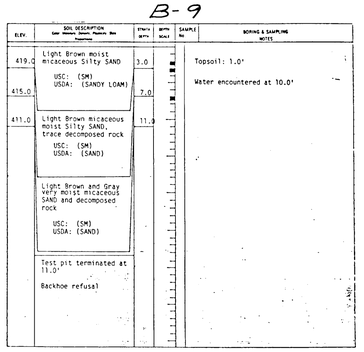

POND CONSTRUCTION CERTIFICATION

I CERTIFY THAT UPON COMPLETION OF CONSTRUCTION I WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE (O&M) OF THE SMALL POND. O&M WILL BE PERFORMED BY ME IN ACCORDANCE WITH THE SPECIFICATIONS ON THIS PLAN. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS OF THE POND BY SITE AND LOCAL AGENCIES.

SIGNATURE OF DEVELOPER — DATE 6/27/89

STATE OF MARYLAND — REGISTERED PROFESSIONAL ENGINEER

OWNER AND DEVELOPER

PEDDICORD PROPERTY PARTNERSHIP
C/O LAND DESIGN AND DEVELOPMENT INC.
8307 MAIN STREET
ELLICOTT CITY, MD. 21043

STORM WATER MANAGEMENT DETAILS

TURF VALLEY OVERLOOK

SECTION TWO AREA TWO
2ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN NOVEMBER 17, 1989
SHEET 17 OF 17

F30-01

STORM WATER MANAGEMENT POND CERTIFICATION AND APPROVAL

DEVELOPER'S CERTIFICATE

"I HEREBY 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".

SIGNATURE OF DEVELOPER — DATE 6/27/89

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE MUST PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION".

SIGNATURE OF ENGINEER — DATE 6/25/89

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

U.S. SOIL CONSERVATION SERVICE — DATE 7/18/90

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

HOWARD SOIL CONSERVATION DISTRICT — DATE 7/18/90

APPROVED: DEPARTMENT OF PLANNING AND ZONING

CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT — DATE 10/2/90

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

CHIEF, LAND DEVELOPMENT DIVISION — DATE 10/5/90

CHIEF, BUREAU OF HIGHWAYS — DATE 8/7/90

CHIEF, BUREAU OF ENGINEERING — DATE 10-5-90