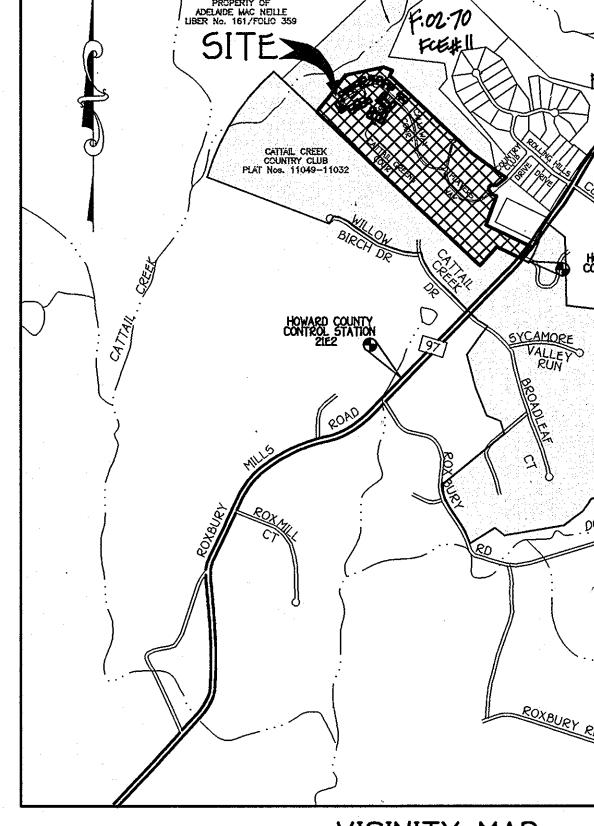
	SHEET INDEX
SHEET	DESCRIPTION
1 :	COVER SHEET
2	SITE DEVELOPMENT PLAN AND PROFILE - PLAYERS WAY
3	SITE DEVELOPMENT PLAN AND PROFILE - CALLAWAY COURT & CATTAIL GREENS COURT
4	SITE DEVELOPMENT PLAN AND PROFILE - CALLAWAY COURT
5	GRADING AND SEDIMENT CONTROL PLAN
6	GRADING AND SEDIMENT CONTROL PLAN
7	GRADING AND SEDIMENT CONTROL PLAN
8	WATER AND SEWER LAYOUT
9	WATER AND SEWER LAYOUT
10	WATER AND SEWER PROFILES
11	WATER AND SEWER PROFILES
12	STORM DRAIN PROFILES
13	STORM DRAIN PROFILES
14	STORM DRAIN PROFILES
15	DRAINAGE AREA MAP
16	LANDSCAPE PLAN
17	SEDIMENT CONTROL NOTES AND DETAILS
18	SEDIMENT CONTROL NOTES AND DETAILS
19	OFF-SITE FOREST CONSERVATION PLAN
20	FOREST CONSERVATION NOTES AND DETAILS
21/50	COVER SHEET, INDEX OF DRAWINGS, LEGEND, NOTES
l ———	DISPOSAL FIELD SITE PLAN
	DISPOSAL FIELD SITE PLAN, FIELDS C & D
	DISPOSAL FIELD SITE PLAN, FIELDS A & B
l ———	DISPOSAL FIELD / FORCE MAIN PROFILES
ļ	DISPOSAL FIELD / FORCE MAIN PROFILES
	PUMP STATION PLAN / SECTION AND DETAILS DETAILS
	HYDRAULIC PROFILE
	WTP PLAN - SECTION AND DETAILS
l <del> </del>	HYDROPNEUMATIC TANK AND DETAILS
<del> </del>	HYDRAULIC PROFILE
l <del> </del>	ELECTRICAL ABBREVIATION AND SYMBOLS
i — — —	WTP ELECTRICAL PLAN AND SCHEDULES
I <del> </del>	WTP ELECTRICAL SCHEMATIC
	GENERATOR DETAILS AND SCHEMATICS
	WW PUMP STATION - ELECTRICAL PLAN
37/E6	WW PUMP STATION - ELECTRICAL PLAN

AD	DRESS CHART (SDP 01-115)
UNIT NO.	ADDRESS
1	15274 CALLAWAY COURT
2	15276 CALLAWAY COURT
3	15278 CALLAWAY COURT
4.	15280 CALLAWAY COURT
5	15282 CALLAWAY COURT
6	15284 CALLAWAY COURT
7	16288 CALLAWAY COURT
8	15290 CALLAWAY COURT
9	15292 CALLAWAY COURT
10	15294 CALLAWAY COURT
11	152916 CALLAWAY COURT
12	157,98 CALLAWAY COURT
13	15299 CALLAWAY COURT
14	15297 CALLAWAY COURT
15	15295 CALLAWAY COURT
16	15293 CALLAWAY COURT
17	15291 CALLAWAY COURT
18	3700 CATTAIL GREENS COURT
19	3702 CATTAIL GREENS COURT
20	3704 CATTAIL GREENS COURT
21	3706 CATTAIL GREENS COURT
22	3707 CATTAIL GREENS COURT
23	4705 CATTAIL GREENS COURT
24	3703 CATTAIL GREENS COURT
25	3701 CATTAIL GREENS COURT



15114 PLAYERS WAY 15116 Players way 15120 Players way 15122 PLAYERS WAY 15124 PLAYERS WAY 15126 Players way 15130 Players Way 15132 PLAYERS WAY 15134 Players way 15136 PLAYERS WAY 15140 PLAYERS WAY 30 15142 PLAYERS WAY 15144 Players way 1514G PLAYERG WAY 15150 PLAYERS WAY 34 15152 PLAYERS WAY 15154 Players way 36 | 1515G PLAYERS WAY 37 15201 CALLAWAY COURT 38 | 15203 CALLAWAY COURT 39 15205 CALLAWAY COURT 40 15207 CALLAWAY COURT 41 15231 CALLAWAY COURT 42 15233 CALLAWAY COURT 43 15235 CALLAWAY COURT 44 15237 CALLAWAY COURT 45 15253 CALLAWAY COURT 46 15255 CALLAWAY COURT 47 | 15257 CALLAWAY COURT 48 15259 CALLAWAY COURT

ADDRESS CHART (90P 99-148)

15111 PLAYERS WAY 15113 PLAYERS WAY 15115 PLAYERS WAY 15117 PLAYERS WAY

15129 PLAYERS WAY 15125 PLAYERS WAY

15127 PLAYERS WAY

15145 PLAYERS WAY 15147 PLAYERS WAY

15151 PLAYERS WAY

15155 PLAYERS WAY

15112 PLAYERS WAY

15157 PLAYERS WAY

& 15129 PLAYERS WAY

9 15141 PLAYERS WAY

10 15143 PLAYERS WAY

14 15153 PLAYERS WAY

17 15110 PLAYERS WAY

ADDRESS

VICINITY MAP SCALE: 1"=1200'

## SITE DEVELOPMENT PLAN

BOARD OF APPEALS CASE No. BA 00-10E ZONING: RC-DEO

GRID No. 2 TAX MAP No: 21 FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND

PARCEL No: 229

JULT NO.	ADORESS
49	15263 CALLAWAY COURT
50	15265 CALLAWAY COURT
51	15267 CALLAWAY COURT
纪	15200) CALLAWAY COURT
53	15230 CALLAWAY COURT
54	15232 CALLAWAY COURT
55	15234 CALLAWAY COURT
56	1523G CALLAWAY COURT
57	15240 CALLAWAY COURT
58	15242 CALLAWAY COURT
59	15244 CALLAWAY COURT
60	15246 CALLAWAY COURT
61	15250 CALLAWAY COURT
GZ	15252 CALLAWAY COURT
63	15254 CALLAWAY COURT
64	1525G CALLAWAY COURT
65	152GO CALLAWAY COURT
66	152G2 CALLAWAY COURT
67	15264 CALLAWAY COURT

60 15206 CALLAWAY COURT

## <u>GENERAL NOTES</u>

EXCAVATION WORK BEING DONE.

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS IF APPLICABLE.
- 2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION
- INSPECTION DIVISION AT (410) 313-1880 AT LEAST (5) WORKING DAYS PRIOR TO THE START OF WORK. 3. THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY
- 4. TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- 5. 2 FOOT CONTOUR TOPOGRAPHY AND EXISTING CONDITIONS BASED ON AERIAL TOPOGRAPHIC SURVEY
- PREPARED BY AERIAL MAPPING CO., INC., FLOWN IN 1990. 6. THE COORDINATES SHOWN HEREON ARE BASED UPON HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT Nos. 21E2 AND 21E3
- were used for this project. 21E3 N 584,559.4765
- 7. WATER SERVICE IS PRIVATE VIA A "CENTRAL USE SYSTEM". e 1,302,074.5340
- B. SEWER SERVICE IS PRIVATE VIA A "MULTI-USE SEWAGE DISPOSAL SYSTEM". 9. THE TRAFFIC STUDY FOR THIS PROJECT WAS PREPARED BY THE TRAFFIC GROUP, INC. (APPROVED UNDER 590-09).

  - A. SUBDIVISION NAME: VILLAS AT CATTAIL CREEK B. TAX MAP NO.: 21 C. PARCEL NO.: 229
- F. TOTAL TRACT AREA: 19.5 AC. #
  G. NO. OF BUILDABLE UNITS: 93
  H. NO. OF PRESERVATION PARCELS: N/A
  I. PRELIMINARY PLAN APPROVAL DATE: N/A
  J. PREVIOUS FILE Nos.: BA 00-10# A COMMITTION ESTIMATE = 230 RESIDENTS
  MAXIMUM NUMBER OF BEDROOMS = 232
  232 × 150 GAL/BEDROOM = 34,800 GAL/DAY
  AS PER MIDE PERMIT NO. 7-22:25-1090
- FOR ELDERLY AND/OR HANDICAPPED PERSONS (SECTION 131N.30)

APPROVED AS PART OF A SITE DEVELOPMENT PLAN.

- THE SPECIAL EXCEPTION FOR HOUSING FOR ELDERLY AND/OR HANDICAPPED PERSONS (BA 00-10E) WAS APPROVED ON MAY 24, 2001 AND SUBJECT TO THE FOLLOWING CONDITIONS:
  - 1. THE SPECIAL EXCEPTION SHALL APPLY ONLY TO THE PROPOSED HOUSING FOR THE ELDERLY AND/OR HANDICAPPED AND ASSOCIATED PARKING AND OTHER SITE IMPROVEMENTS, AS DESCRIBED IN THE PETITION AND AS DEPICTED ON THE SPECIAL EXCEPTION PLAN FOR THE VILLAS AT CATTAIL CREEK AS REVISED, DATED SEPTEMBER 10, 2000, AND AS AMENDED BY THIS DECISION AND ORDER, AND NOT TO ANY OTHER ACTIVITIES, USES OR STRUCTURES ON THE SUBJECT DROPERTY
  - 2. THE SPECIAL EXCEPTION USE SHALL BE BUFFERED WITH THE REQUIRED TYPE OF LANDSCAPE EDGE OR APPROVED EQUIVALENT AS REQUIRED BY THE LANDSCAPE MANUAL AND AS
  - 3. THE PETITIONER SHALL COMPLETE ALL REQUIRED TRAFFIC IMPROVEMENTS AS MAY BY REQUIRED BY THE SITE DEVELOPMENT PLAN APPROVED FOR THE DEVELOPMENT.
  - 4. ALL RESIDENTS SHALL MEET THE DEFINITION OF THE ELDERLY AND/OR HANDICAPPED AS SPECIFIED IN SECTION 103.A.67 OF THE ZONING REGULATIONS.
  - 5. THE NUMBER OF DWELLING UNITS ON THE SUBJECT PROPERTY SHALL NOT EXCEED 25.
- 6. THE PETITIONER SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND COUNTY LAWS
- 11. a. REFUSE COLLECTION PROVIDED HOWARD COUNTY. HOWARD COUNTY OR IT'S COLLECTION CONTRACTORS HAVE PERMISSION TO ENTER THE PRIVATE ROADWAYS FOR THE PURPOSE OF RECYCLING
- AND TRASH COLLECTIONS, AND WILL NOT BE HELD RESPONSIBLE FOR ANY DAMAGE OR FAILURE OF THE PAVEMENT OR ROADWAYS IN THE AREA.
- b. Snow removal and road maintenance to be private.
- 12. NO CEMETERIES EXIST ON THE PROPERTY.
- 13. ALL FILL AREAS WITHIN ROADWAYS AND UNDER STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO T-180.
- 14. THE WETLAND AND FOREST STAND DELINEATION WAS PREPARED BY ECO-SCIENCE PROFESSIONALS, INC. AND APPROVED
- 5. Noise study was prepared by Wildman environmental services and approved under P99-02
- 16. THE FOREST CONSERVATION EASEMENT(S) HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY FOREST CONSERVATION ACT. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT, EXCEPT AS SHOWN ON AN APPROVED ROAD CONSTRUCTION DRAWING OR SITE DEVELOPMENT PLAN. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE ALLOWED. THE FOREST CONSERVATION REQUIREMENTS FOR THIS SITE WILL BE MET BY PROVIDING 3.9 AC OF OFF-SITE AFFORESTATION PLANTING ON THE ADJACENT CATTAIL RIDGE SUBDIVISION KNOWN AS 102.70,3.7 AC. TO BE LOCATED ON PRESERVATION PARCEL 'C' AND 0.2 AC. ON PRESERVATION PARCEL 'A'. THE SURETY AMOUNT WILL BE \$84,942.00 FOR THIS PROJECT. (FCE 1021)

  17. STORM WATER MANAGEMENT FOR THIS PROPERTY IS PROVIDED UNDER F99145. CATTAIL RIDGE, LOCATED ON THE ADJACENT PROPERTY TO THE NORTHEAST.
- 18. FINAL CONSTRUCTION PLANS FOR SEWAGE DISPOSAL AND WATER TREATMENT SYSTEMS, IDENTIFIED AS PAGES 8-11 AND PAGES 19-27 IN THE SITE DEVELOPMENT PLAN ARE HEREBY APPROVED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH THROUGH THE STATE CONSTRUCTION PERMIT PROCESS. THE CONSTRUCTION OF THESE SYSTEMS SHALL CONFORM TO PLANS, AND ANY DETAILS AND SEQUENCE OF CONSTRUCTION OUTLINED IN THE CONSTRUCTION PERMIT AND LOCAL SEPTIC SYSTEM PERMIT.
- 19. THE PROJECT IS IN CONFORMANCE WITH THE HOWARD COUNTY MASTER WATER AND SEWER PLAN AS DETERMINED BY HOWARD COUNTY GOVERNMENT AND THE MARYLAND DEPARTMENT OF THE ENVIRONMENT. THE PROJECT LISTED IN THE COUNTY MASTER WATER AND SEWER PLAN DURING THE JULY 1999 CYCLE.
- 20. A FINAL DETERMINATION ON THE GROUND WATER DISCHARGE PERMIT HAS BEEN MADE AND PUBLISHED BY THE MARYLAND DEPARTMENT OF THE ENVIROMENT. THE DECISION WAS TO APPROVE THE PERMIT.
- 21. THE GROUND WATER APPROPRIATION PERMIT HO97GO21 WAS ISSUED AND EFFECTIVE ON SEPTEMBER 1, 1990. THE
- PERMIT WAS ISSUED FOR A CENTRAL WATER SUPPLY FOR 116 UNITS, CATTAIL CREEK CONDOMINIUM COMPLEX.
- 22. THE FINANCIAL PLAN AGREEMENT FOR THE OPERATION AND MAINTENANCE OF THE WATER AND SEWER UTILITIES BY THE CONDOMINIUM WILL BE COMPLETED PRIOR TO THE ISSUANCE OF BUILDING PERMITS.
- 23. THE FACILITIES WILL BE OPERATED AND MAINTAINED BY A CERTIFIED WATER AND WASTE WATER TREATMENT
- 24. EXISTING UTILITIES SHOWN ARE BASED ON CONTRACT DRAWING F-99-145.
- 25. THE EXISTING 100 YEAR FLOODPLAIN DELINEATION SHOWN IS BASED ON THE HOWARD COUNTY FLOODPLAIN STUDY FOR CATTAIL CREEK APPROVED UNDER P 99-02 (CATTAIL RIDGE) DATED FEBRUARY 8, 1999. 26. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 27. ALL ROADWAYS WITHIN THIS SUBDIVISION ARE PRIVATE.

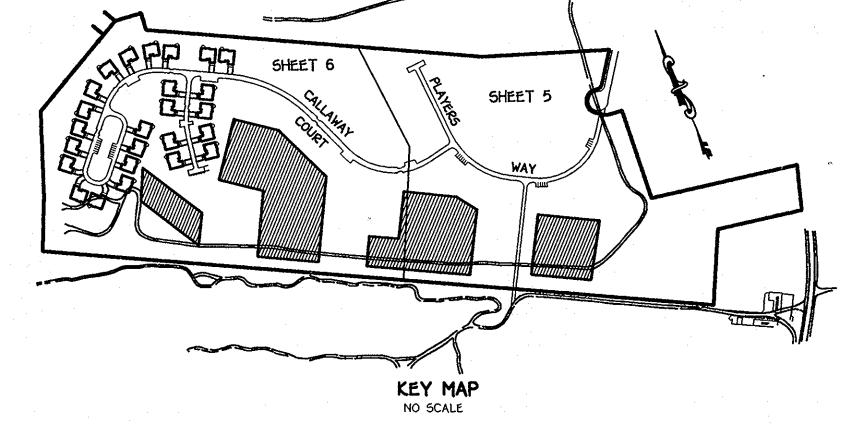
SEE GENERAL NOTE NO. 10 THRU NO. 23 FOR REVIEW AND PERMITTING RESPONSIBILITIES OF THE PRIVATE WATER AND SEWER SYSTEM FOR THIS DEVELOPMENT.

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20740, EXPRATION DATE 2/12/00,"

STREET NAME	CL. STA.	OFFSET	POSTED SIGN	SIGN CODE
Players way	3+12	1242	ROAD NARROWS	W5-1
PLAYERS WAY	4+44	124.	road narrows	₩5-1
Players way	9+02	10°R	road narrows	W5-1
PLAYERS WAY	9+96	10°L	road narrows	₩5-1
CALLAWAY COURT	0+26	16°L	STOP	R1-1
CALLAWAY COURT	1+40	1242	road narrows	W5-1
CALLAWAY COURT	3+12	127.	ROAD NARROWS	W5-1
CALLAWAY COURT	6+25	12°R	ROAD NARROWS	W5-1
CALLAWAY COURT	7+22	12°L	road narrows	W5-1
CALLAWAY COURT	12+85	10°R	road narrows	W5-1
CALLAWAY COURT	13+86	10°L	ROAD NARROWS	W5-1
CALLAWAY COURT	15+30	10°R	road narrows	W5-1
CALLAWAY COURT	16+30	10°L	road narrows	W5-1
CALLAWAY COURT	17+35	10°R	ROAD NARROWS	W5-1
CALLAWAY COURT	10+00	10°L	ROAD NARROWS	W5-1
CALLAWAY COURT	24+06	14°R	STOP	R1-1
CATTAIL GREENS COURT	0+26	14°L	STOP	RI-1
CATTAIL GREENS COURT	0+94	10°R	ROAD NARROWS	W5-1
CATTAIL GREENS COURT	1+93	10°L	ROAD NARROWS	W5-1

FISHER, COLLINS & CARTER, INC.

BEGANDASSCATE MEDIANICAL ESTABLE PROPERTIE EXPLINA ESTABLE 1/31/00 SEE GENERAL NOTE NO. 11 FOR REFUSE COLLECTION RESPONSIBILITIES.



Approved for private well and private septic by Howard County Health Department.

ENGINEER'S CERTIFICATE "I certify that the planton erosion and sediment control represents a practical and workable plan based of the requirements of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." 12-04-01 name below signature) DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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." 10-02-01 Date ignature of Developer (Print name below signature)

Reviewed for HOWARD SCD and meets Technical Requirements. OWNER / DEVELOPER

THE VILLAS AT CATTAIL CREEK, L.L.C. 8000 MAIN STREET ELLICOTT CITY, MARYLAND 21043

PPROVED: DEPARTMENT OF PLANNING AND ZONING tor, Department of Planning and Zoning ECTION/AREA THE VILLAS AT CATTAIL CREEK 1 - 25 BLOCK NO. | ZONE | TAX/ZONE | ELEC. DIST. | CENSUS TR. RC-DEO 4228, F. 442 WATER CODE SEWER CODE

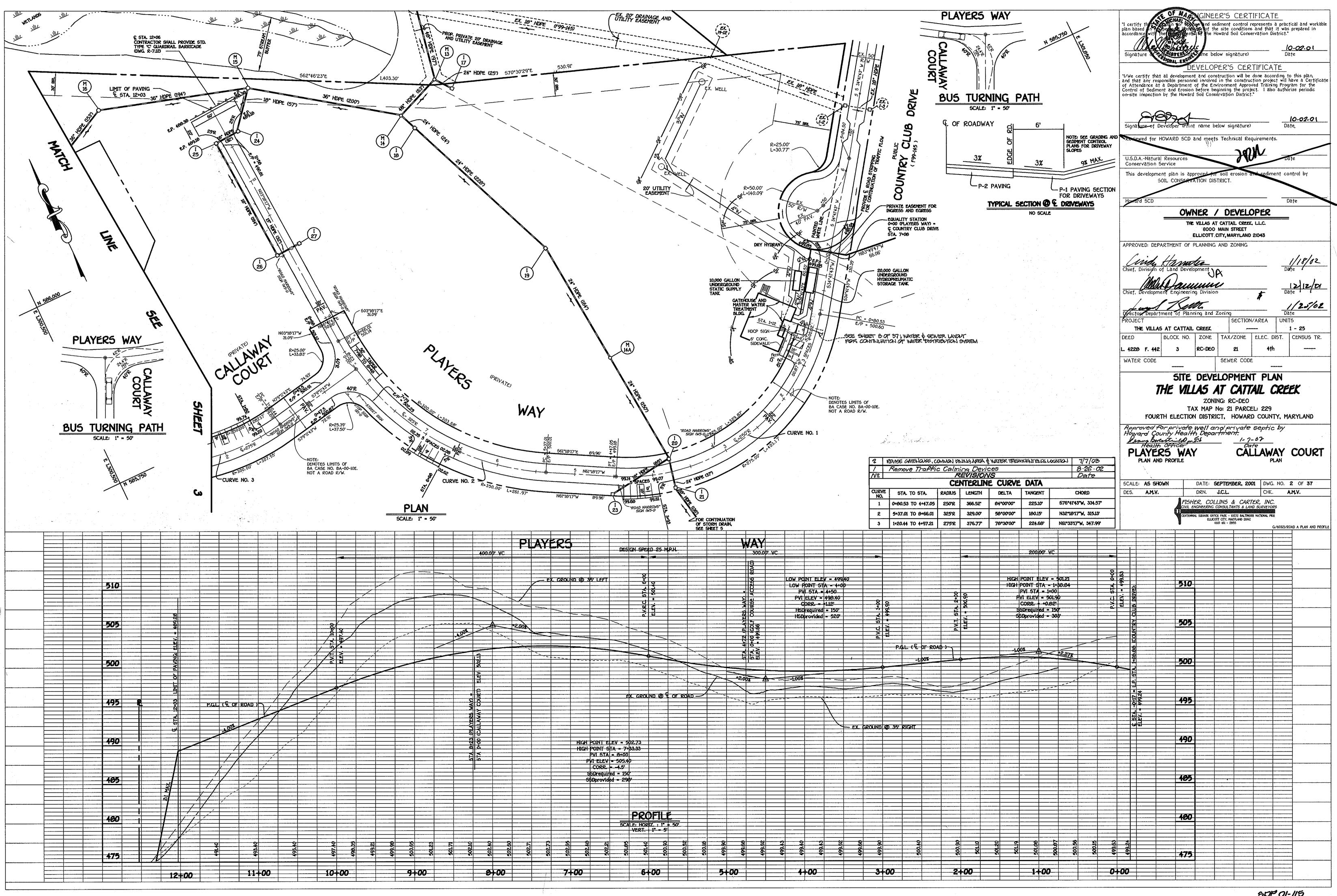
COVER SHEET

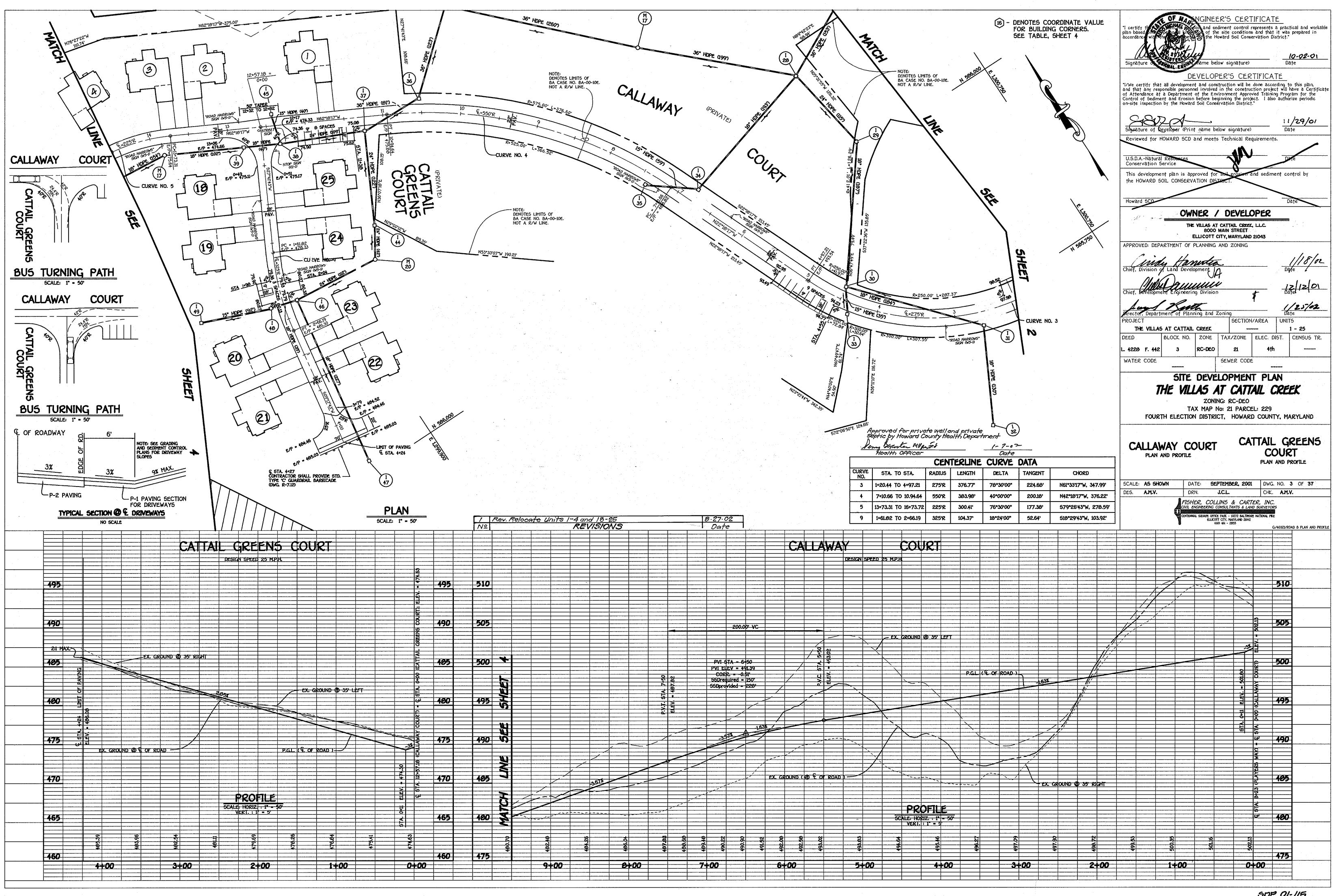
SITE DEVELOPMENT PLAN THE VILLAS AT CATTAIL CREEK

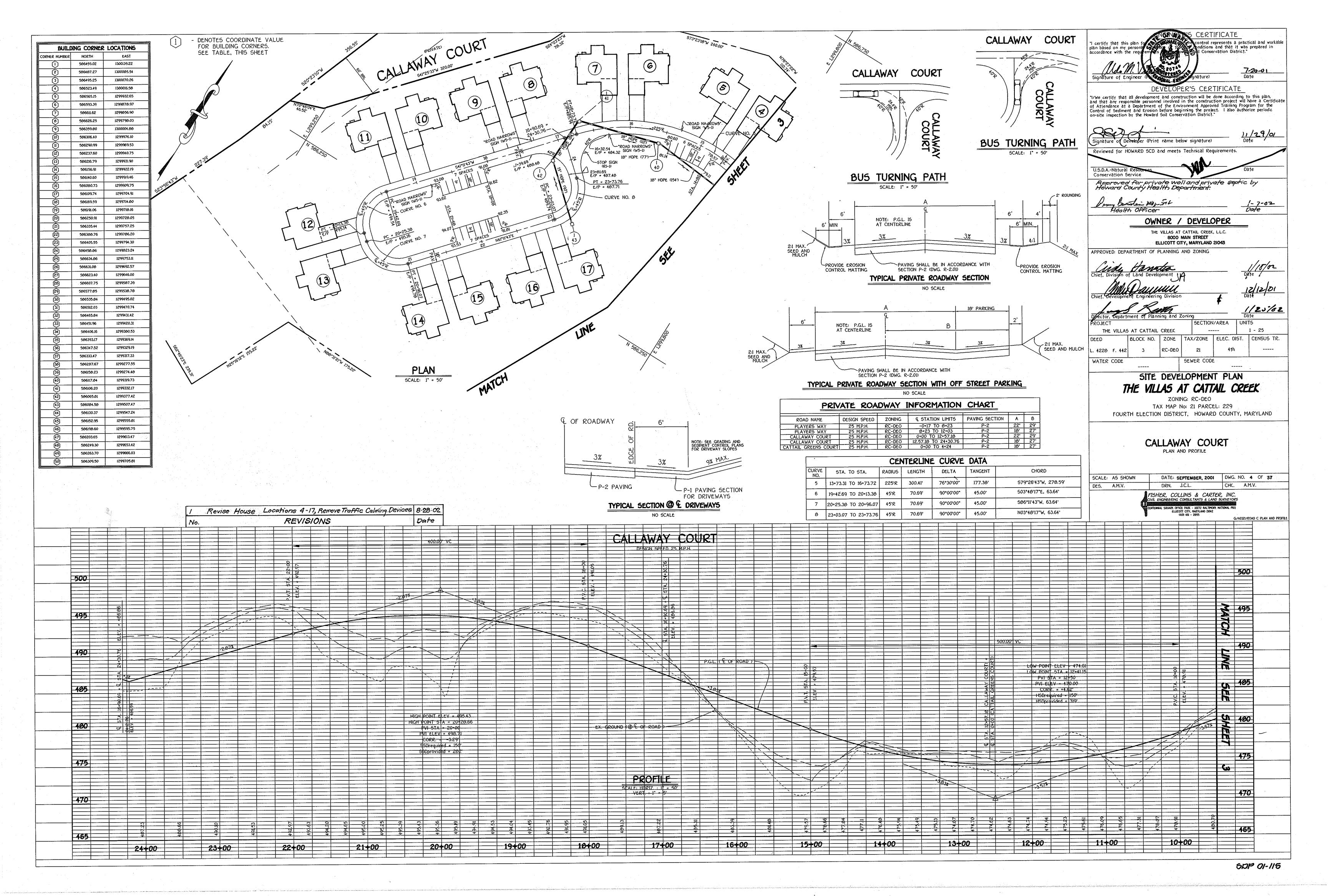
> ZONING: RC-DEO TAX MAP No: 21 PARCEL: 229

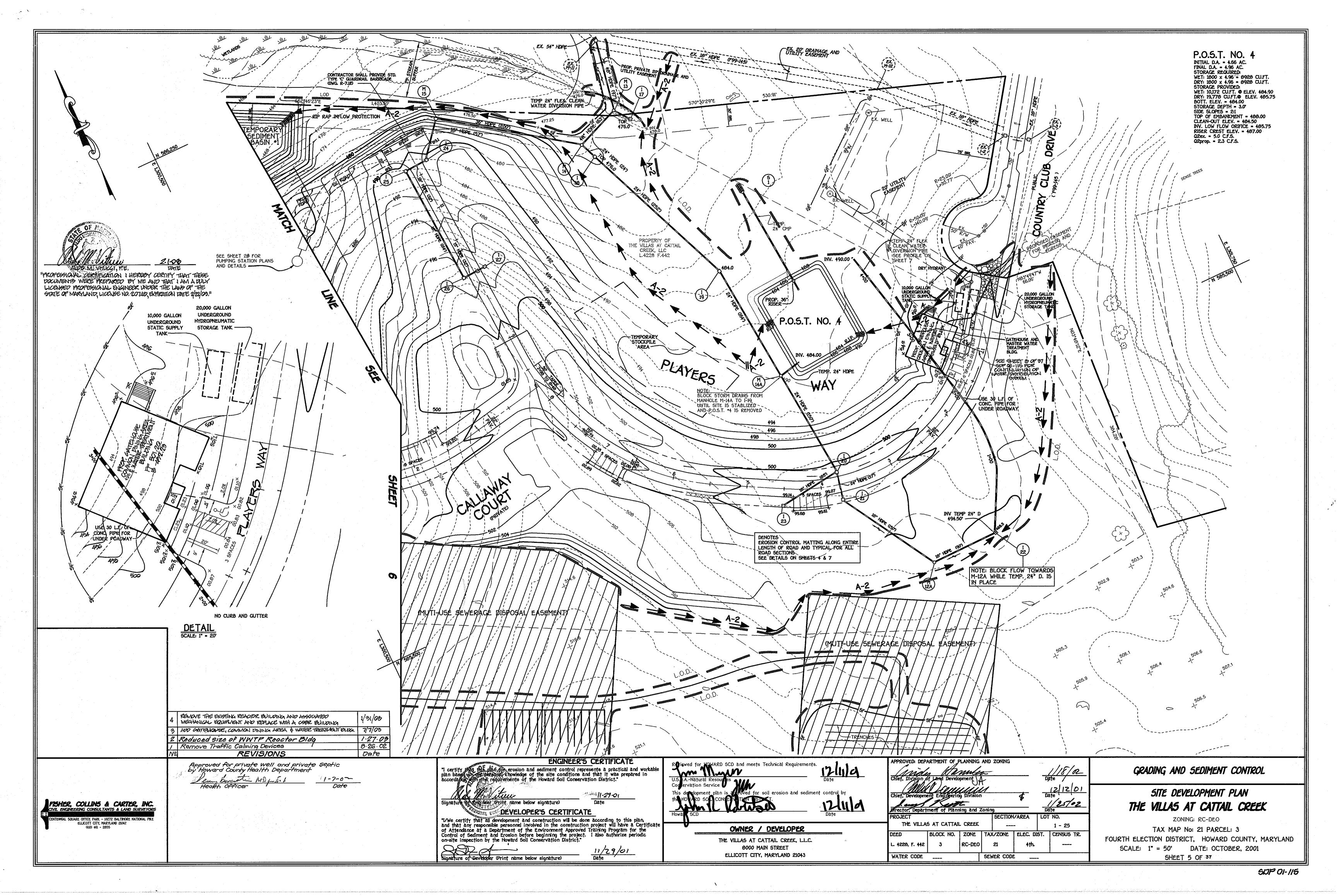
FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: AS SHOWN DATE: SEPTEMBER, 2001

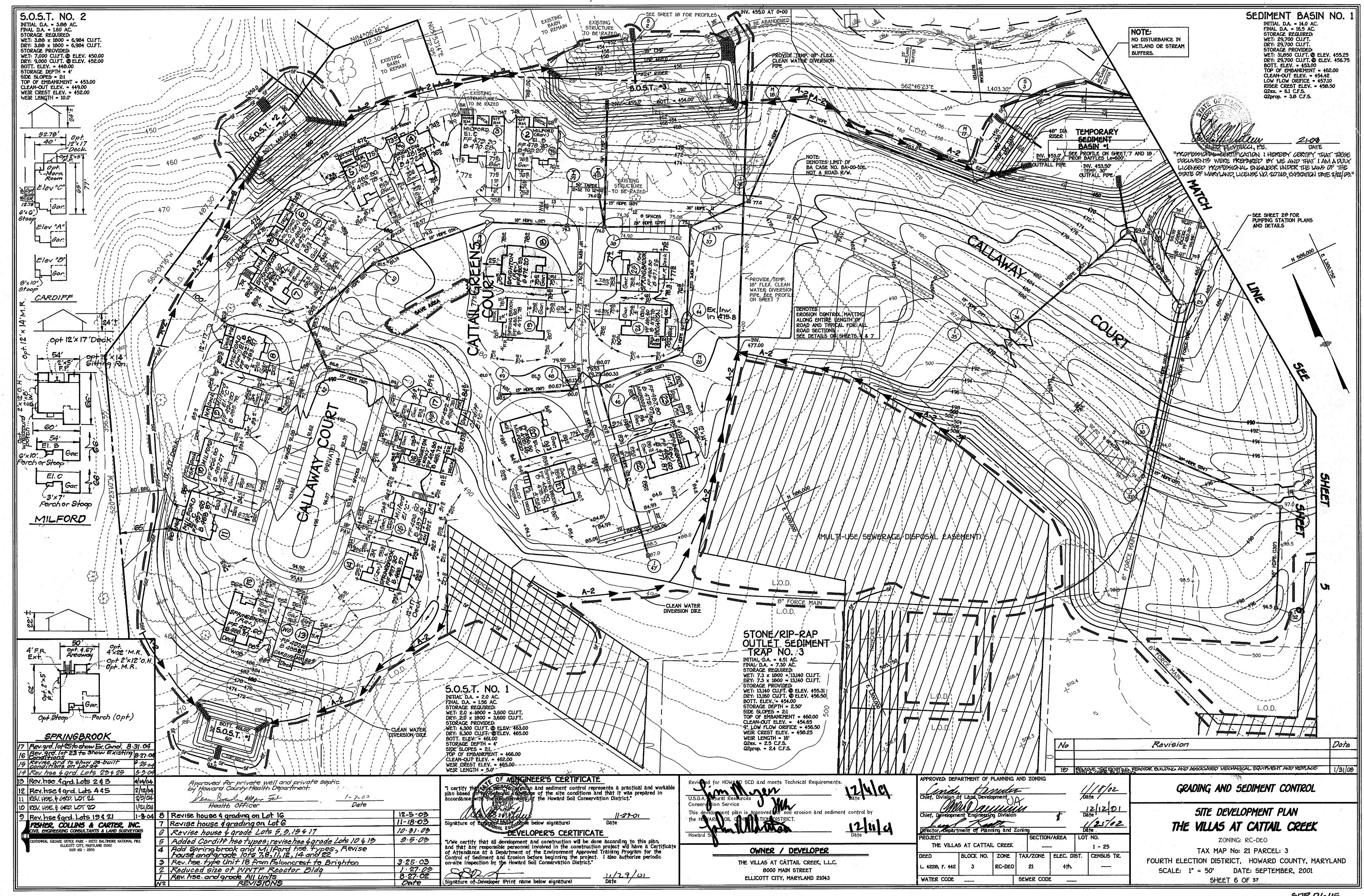
SHEET 1 OF 37

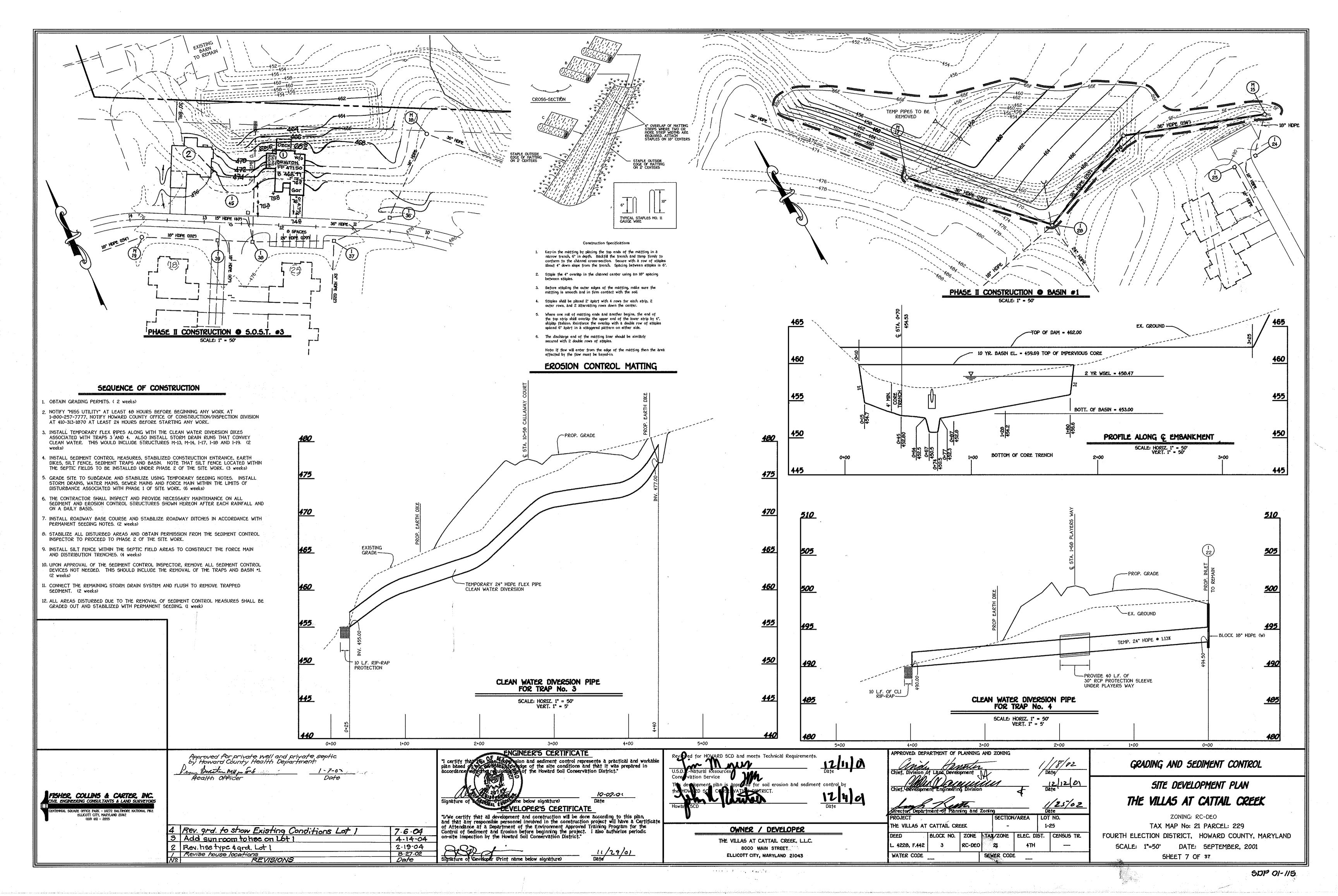


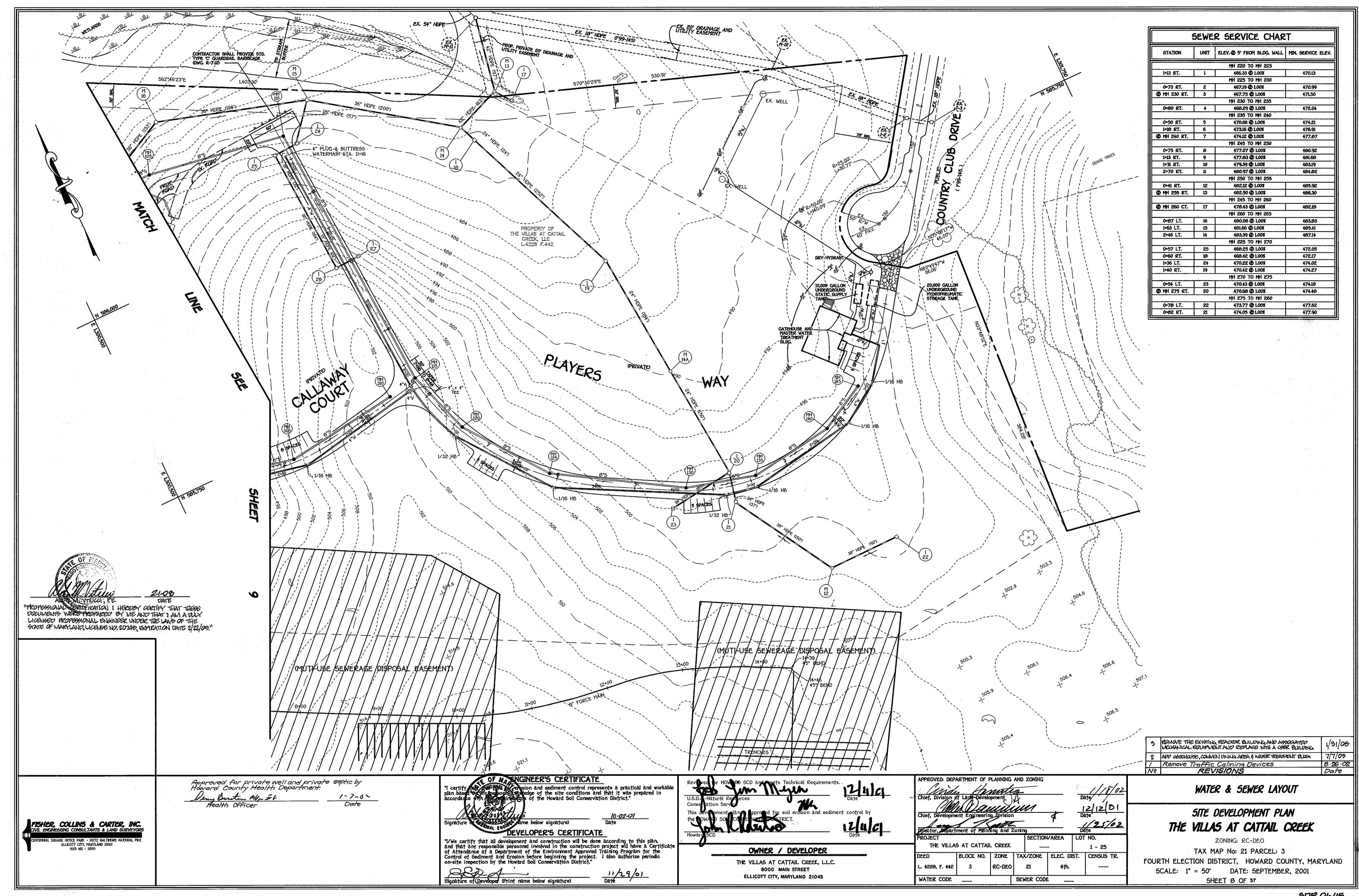


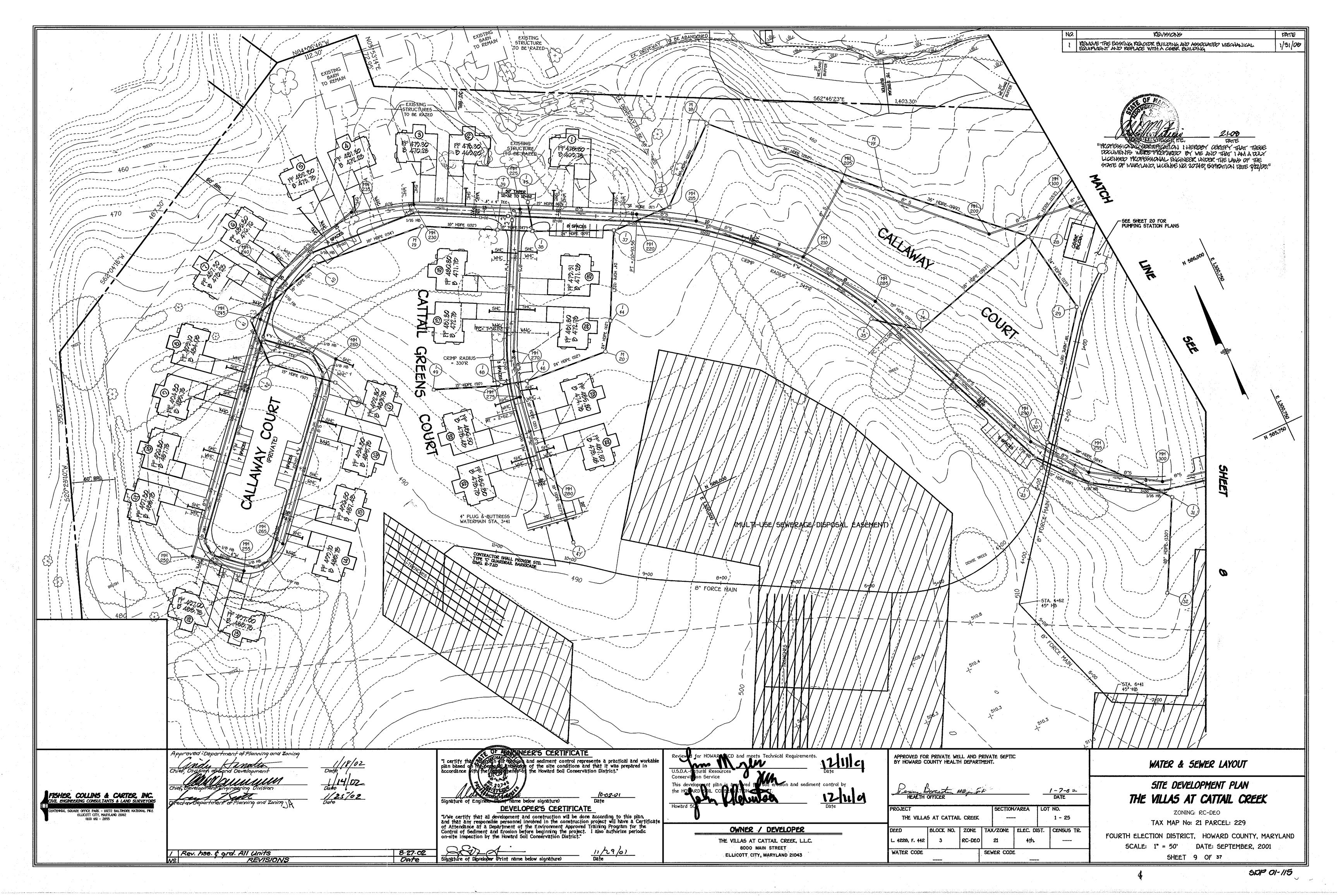


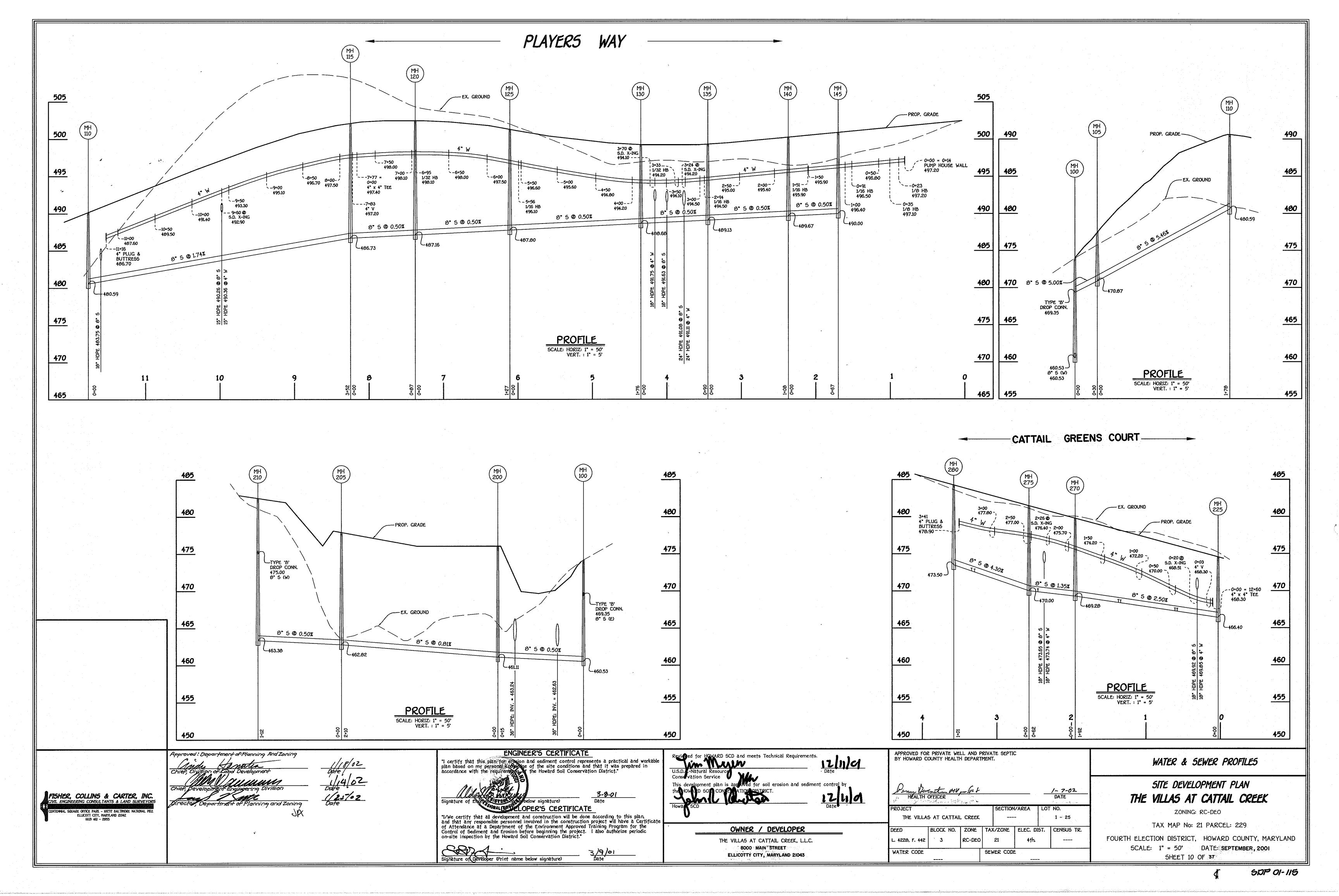


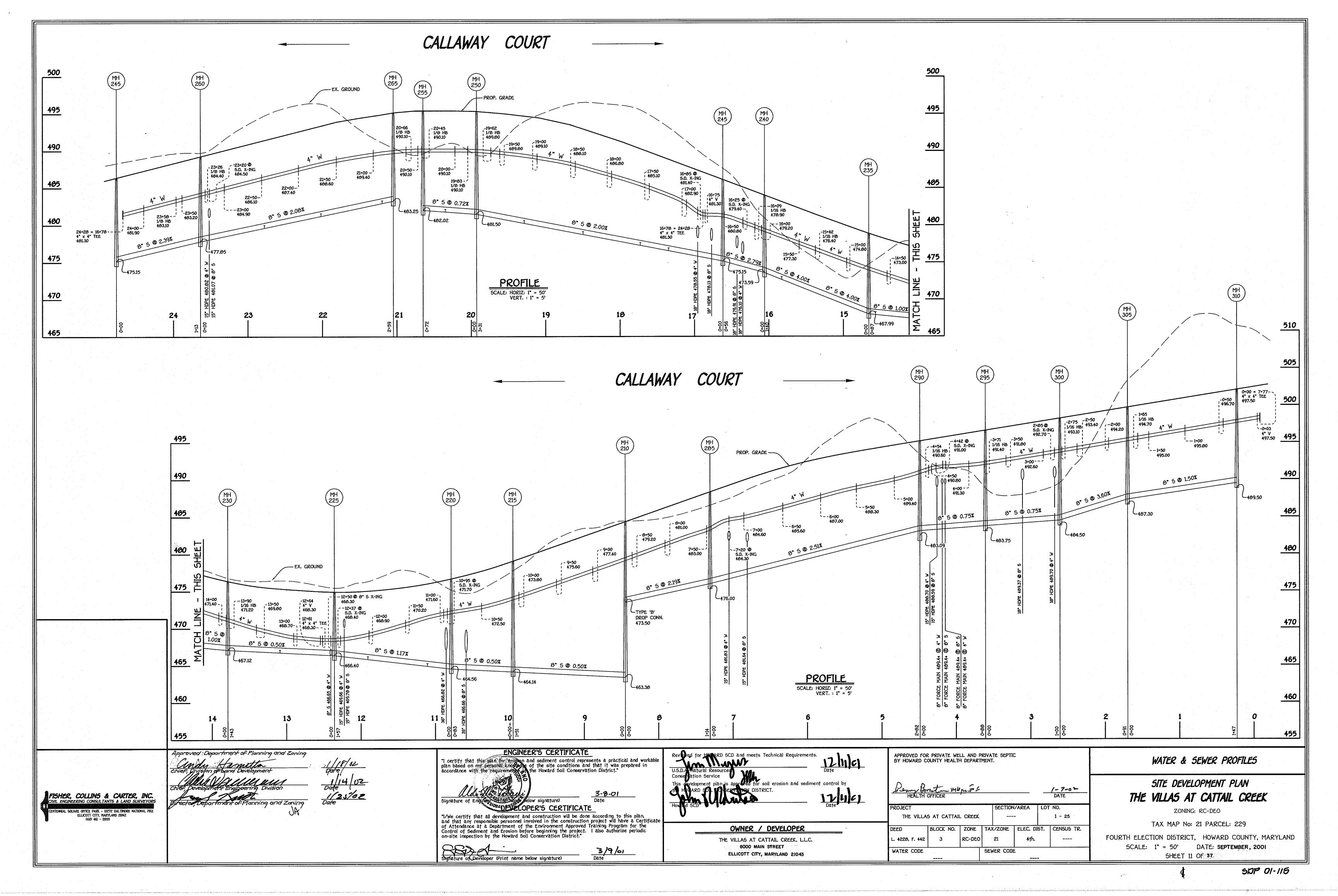


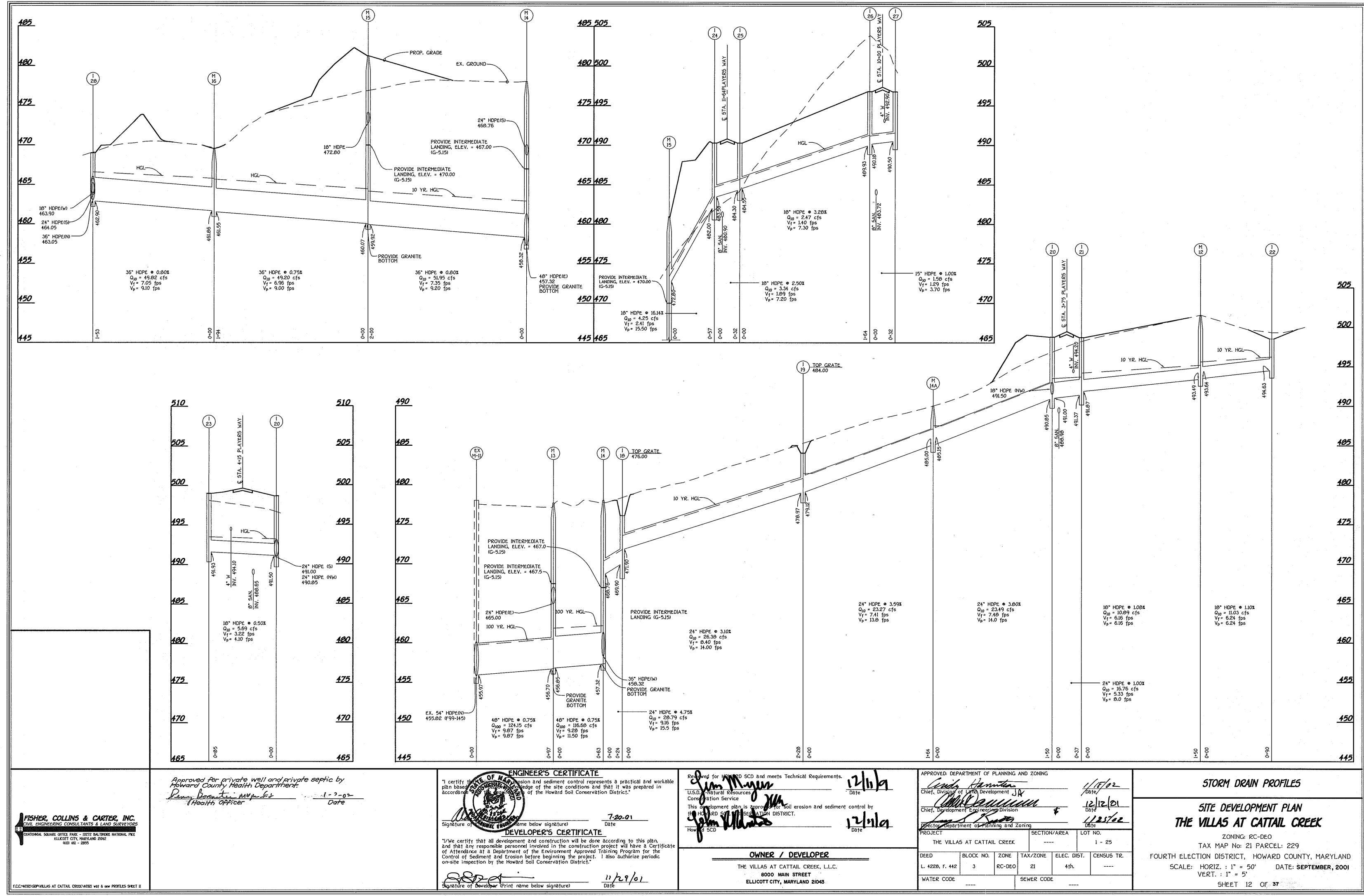








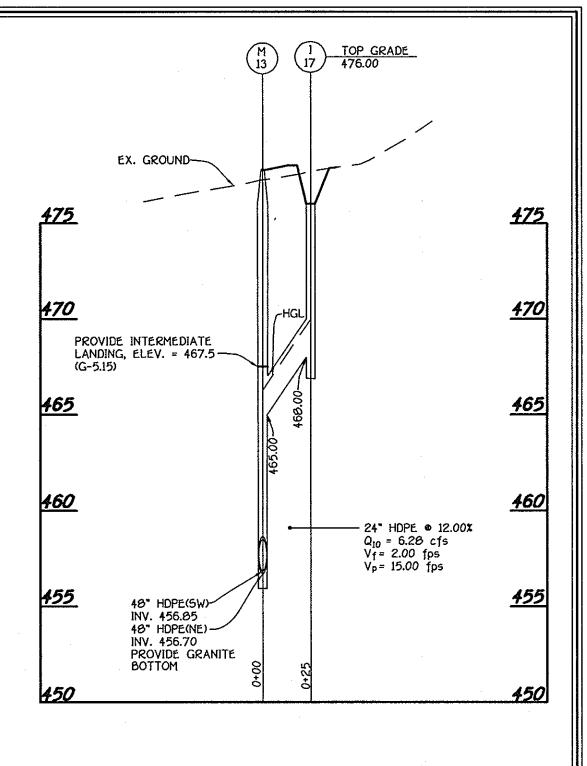


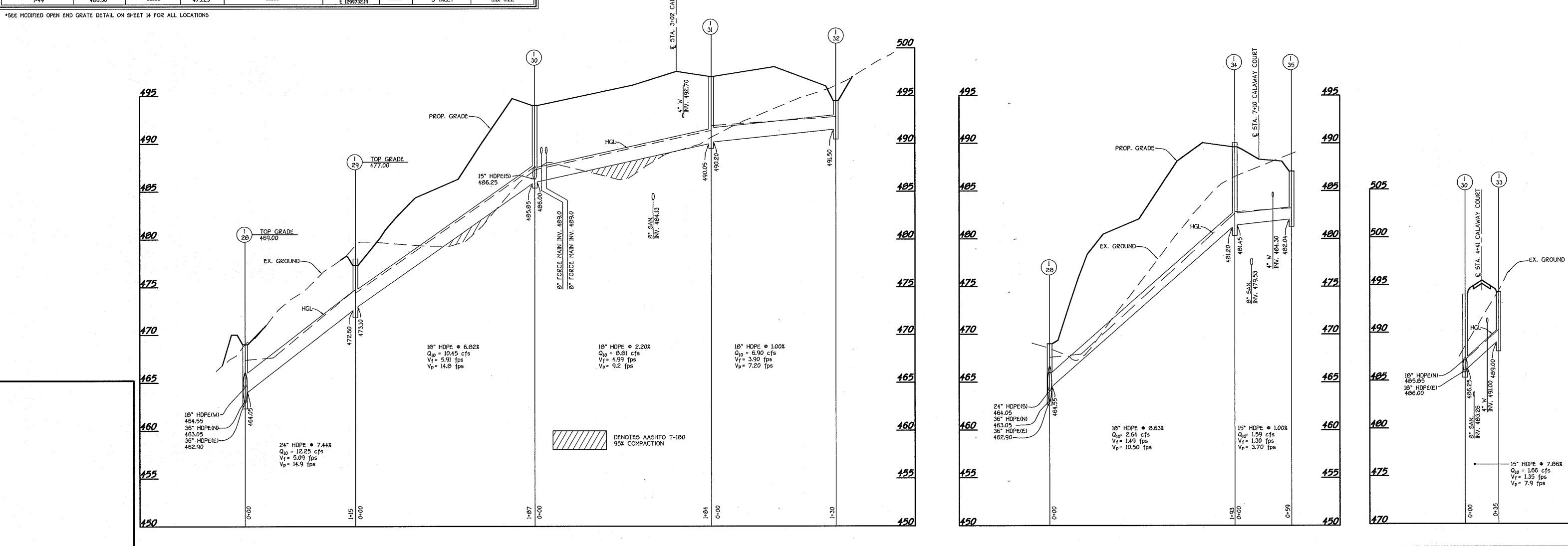


	INLET SCHEDULE							
STRUCTURE NO.	TOP ELEVATION	иг.уи	INV.OUT	ROAD NAME	& road sta.	OFFSET	TYPE	REMARKS
1-17	476.00		468.00		N 506,026.05 E 1,301,101.04		'S' INLET	5.D. 4.22
I-10	476.00	471.90	469.90	***	N 506,001.47 E 1,301,036.30		'5' INLET	5.D. 4.22
1-19	484.00	479.12	470.97	***	N 505,790.16 E 1,301,121.96		'5' INLET	5.D. 4.22
1-20	498.75	491.50, 491.00	490.05	PLAYERS WAY	3+75	19'R	*OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-21	498.90	491.87	491.37	PLAYERS WAY	3+75	19°L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
. I-22	498.50	*****	494.63		N 505322.40 E 1,301,305.10		'S' INLET	5.D. 4.22
1-23	499.00		491.93	PLAYERS WAY	4+50	17'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-24	490.40	477.94	477.79	PLAYERS WAY	11+64	16'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-25	490.40	484.55	464.30	PLAYERS WAY	11+64	16'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-26	496.90	490.18	489.93	PLAYERS WAY	10+00	16'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-27	496.40		490.50	PLAYERS WAY	10+00	16'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-26	469.00	463.05, 462.90, 463.65	462.90		N 506,125.60 E 1,300,542.75		'5' INLET	5.D. 4.22
1-29	477.00	473.10	472.85		N 506,012.26 £ 1,300,561.10		'S' INLET	5.0. 4.22
I-30	494.00	486.00, 486.25	485.85	CALLAWAY COURT	4+50	17°R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-31	497.00	490.20	490.05	CALLAWAY COURT	2+66	17'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-32	496.00		491.50		N 585,624.23 E 1,300,487.71		'5' INLET	5.D. 4.22
1-33	494.30		489.00	CALLAWAY COURT	4+35	15'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-34	489.54	401.45	481.20	CALLAWAY COURT	6+80	17'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-35	487.00	****	482.04	CALLAWAY COURT	7+40	15'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-36	477.00	466.32	466.27	CALLAWAY COURT	10+53	18'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-37	468.03	468.03	467.03	CALLAWAY COURT	11+25	16°L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-38	469.35	469.60	468.85	CATTAIL GREENS COURT	0+24	23'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-39	473.75	469.85	469.70	CATTAIL GREENS COURT	0+24	23'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-40	481.50	474.70	474.55	CALLAWAY COURT	15+58	17°L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-41	485.45	477.65	477.50	CALLAWAY COURT	16+65	16'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-42	486.82	479.40	479.25	CALLAWAY COURT	24+06	24'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-43	489.10		482.25	CALLAWAY COURT	23+19	17'8	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-44	476.00	471.33	471.00		N 506,262.19 E 1,299,906.41		'S' INLET	5.D. 4.22
I-45	474.10		470.00	CALLAWAY COURT	12+41.15	15'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-46	480.00	473.52, 473.27	473.02	CATTAIL GREENS COURT	2+30	16'L	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
I-47	487.00		478.95	yeard year had not	N 586,013.07 E 1,299,814.21		'S' INLET	5.D. 4.22
I-48	480.00	474.12	473.87	CATTAIL GREENS COURT	2+30	18'R	OPEN END GRATE	5.D. 4.36 w/ 5.D. 4.13
1-49	480.50		475.25		N 506279.34 E 1299732.19		'S' INLET	5.D. 4.22

MANHOLE SCHEDULE									
STRUCTURE NO.	TOP ELEVATION	INV.IN	INV.OUT	ROAD NAME	E ROAD STA.	OFFSET	PIPE DIA. IN / OUT	TYPE	REMA
M-12	501.5	493.64	493.49		N 585467.23 E 1,301,064.74		18", 18"	STD. 4' MANHOLE	G
M-13	477.90	465.00, 456.05	456.70		N 506,047.03 E 1,301,005.66		24", 48", 48"	4' BRICK MANHOLE	G
M-14	477.60	468.76, 458.32	457.32		N 586,023.34 E 1,301,027.03		24", 36", 48"	4' BRICK MANHOLE	G
M-14A	490.0	485.15	405.00	14 at 14	N 585,627.34 E 1,301,136.60		24", 24"	STD. 4' MANHOLE	G
M-15	481.00	472.80, 460.07	459.92		N 586,139.10 E 1,300,864.81		16", 36", 36"	STD. 4' MANHOLE	G
M-16	469.50	461.60	461.53		N 506,195.03 E 1,300,679.60		36", 36"	STD. 4' MANHOLE	G
M-17	475.50	464.20	464.05		N 586,255.16 E 1,300,435.16		36", 36"	STD. 4' MANHOLE	G
M-18	473.00	465.65	465.50		N 586,447,82 E 1,300,216,58		36", 36"	STD. 4' MANHOLE	G
M-19	476.30	470.77	470.62	CALLAWAY COURT	13+84	24'L	18", 18"	STD. 4' MANHOLE	G
M-20	479.80	471.90	471.75		N 586227.23 £ 1299962.60		24", 24"	STD. 4' MANHOLE	G

PIPE SCHEDULE						
PIPE SIZE	LÉNGTH					
15" HDPE	256 L.F.					
18" HOPE	2,101 L.F.					
24" HDPE	1,128 L.F.					
36" HDPE	1,210 L.F.					
48" HDPE	160 L.F.					





FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

Approved for private well and private septic by Howard County Health Department.

1-1-02 Date

ENGINEER'S CERTIFICATE "I certify the this person and sediment control represents a practical and workable plan based to be the conditions and that it was prepared in accordance with the equivalent of the Howard Soil Conservation District."

7-20-01 ame below signature)

DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment 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."

WATER CODE

OWNER / DEVELOPER THE VILLAS AT CATTAIL CREEK, L.L.C. 8000 MAIN STREET

ELLICOTT CITY, MARYLAND 21043

PPROVED: DEPARTMENT OF PLANNING AND ZONING THE VILLAS AT CATTAIL CREEK 1 - 25 BLOCK NO. ZONE TAX/ZONE ELEC. DIST. CENSUS TR. RC-DEO .. 4228, F. 442

SEWER CODE

STORM DRAIN PROFILES

SITE DEVELOPMENT PLAN THE VILLAS AT CATTAIL CREEK

ZONING: RC-DEO TAX MAP No: 21 PARCEL: 229 FOURTH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND SCALE: HORIZ. : 1" = 50' DATE: SEPTEMBER, 2001 VERT. : 1" = 5'

SHEET 13 OF 37