


GENERAL NOTES

PART I

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES. (NAD '83)
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

C. & P. TELEPHONE	597-8585
A.T. & T.	865-3803
STATE HIGHWAY ADMINISTRATION	531-5533
B.G.&E. CO. CONTRACTOR SERVICES	850-4650
B.G.&E. CO. UNDER GROUND DAMAGE CONTROL	787-9068
MISS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	796-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES	313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
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- FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.

PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
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- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL GS.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 18" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	17
NO. OF WATER HOUSE CONNECTIONS:	15
NO. OF SEWER HOUSE CONNECTIONS:	15
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTE WATER TREATMENT PLANT

THE WOODS AT PARK PLACE

LOTS 1-15 AND OPEN SPACE 16 & 17

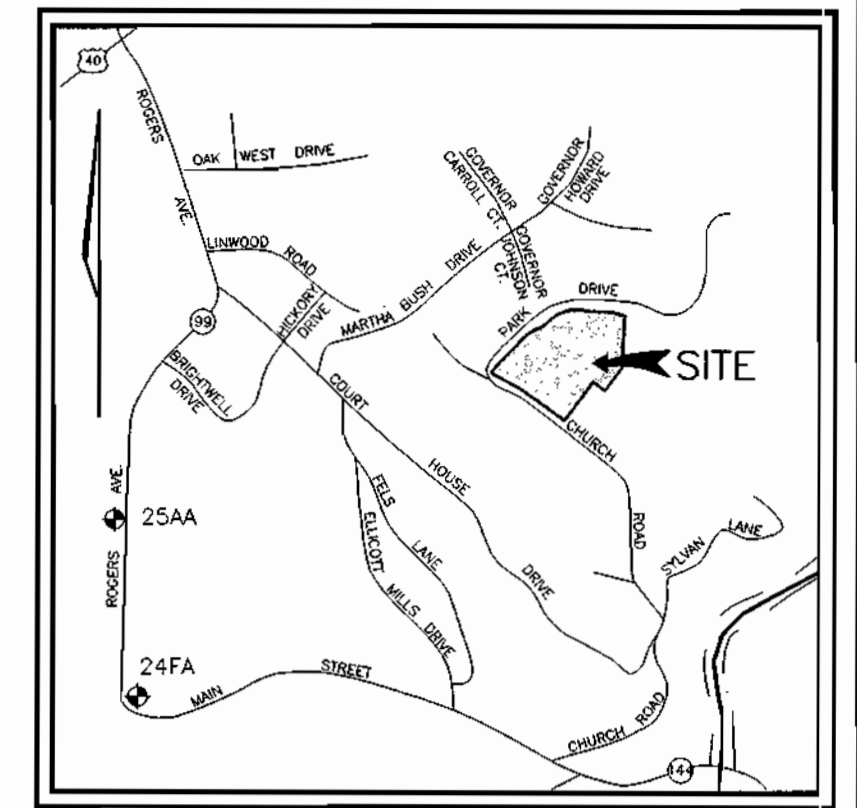
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4030-D

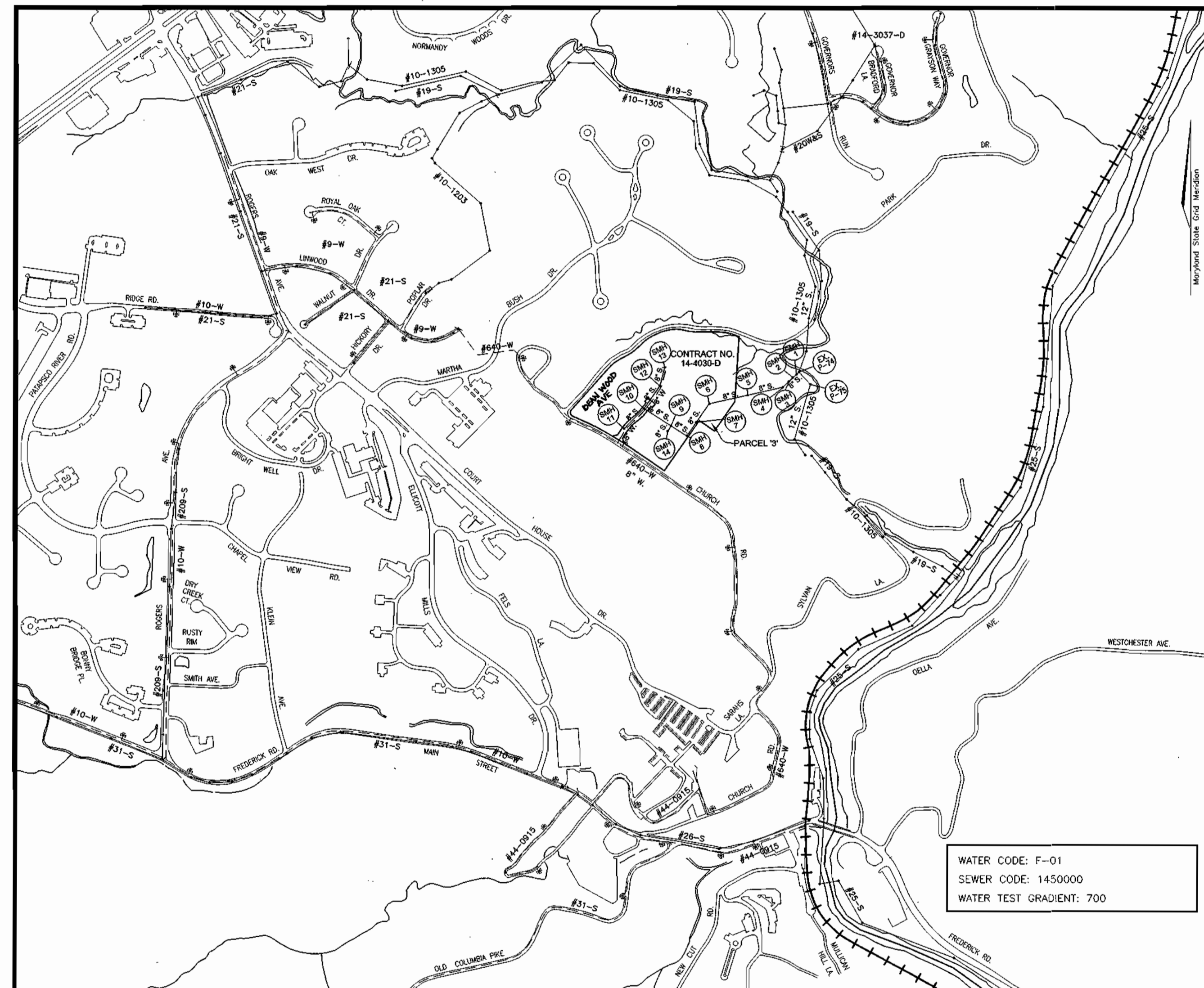
BENCHMARKS

BENCHMARK NO. 1: COUNTY CONTROL #24FA
 N. 583,751.410, E. 1,366,091.843
 ELEV. = 263.701'

BENCHMARK NO. 2: COUNTY CONTROL #25AA
 N. 585,307.185, E. 1,366,071.024
 ELEV. = 308.447'



VICINITY MAP
 SCALE: 1" = 2000'



LOCATION PLAN
 SCALE: 1"=600'

WATER CODE: F-01
 SEWER CODE: 1450000
 WATER TEST GRADIENT: 700

QUANTITIES

NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	595 LF			
6" W	10 LF			
FIRE HYDRANT	1 EACH			
8"X8" TAPPING SLEEVE	1 EACH			
8"X6" TEE	1 EACH			
8" V	1 EACH			
6" V	2 EACH			
8"X6" REDUCER	1 EACH			
8" CAP & BUTTRESS	1 EACH			
8" S (DIP)	1277 LF			
8" S (PVC)	552 LF			
8" STOPPER	1 EACH			
MANHOLES	14 EACH			

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-02-154

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

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

[Signature]
 SOIL CONSERVATION DISTRICT
 DATE

[Signature]
 U.S. SOIL CONSERVATION DISTRICT
 NATURAL RESOURCES CONSERVATION SERVICE
 DATE 4/9/03

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

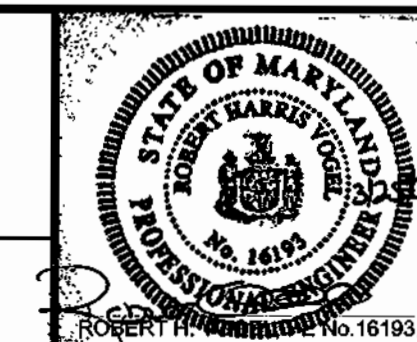


FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS ARCHITECTS SURVEYORS
 7125 Riverwood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-6226
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: MHM			
DRN: CMH			
CHK: JCO			
DATE: MARCH 2003	BY NO.	REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 25
 BLOCK NO. 1 & 2



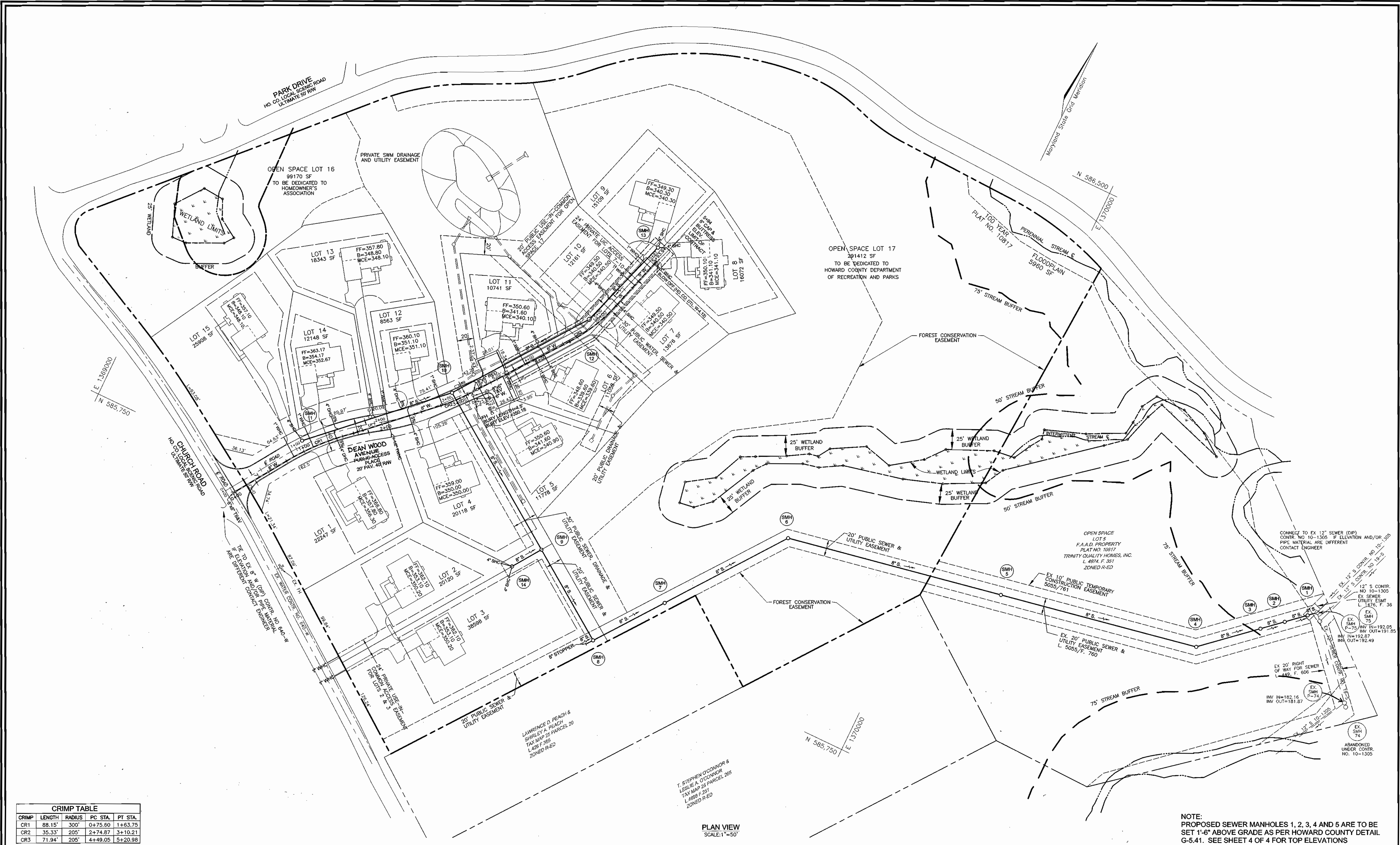
THE WOODS AT PARK PLACE
 LOTS 1-15 AND OPEN SPACE 16 & 17
 CONTRACT NO. 14-4030-D

TAX MAP 25 BLOCKS 1 & 2
 2ND ELECTION DISTRICT

PARCEL 3'
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 4



CRIMP TABLE

CRIMP	LENGTH	RADIUS	PC STA.	PT STA.
CR1	88.15'	300'	0+75.60	1+63.75
CR2	35.33'	205'	2+74.87	3+10.21
CR3	71.94'	205'	4+49.05	5+20.98

PLAN VIEW
SCALE: 1"=50'

NOTE:
PROPOSED SEWER MANHOLES 1, 2, 3, 4 AND 5 ARE TO BE SET 1'-6" ABOVE GRADE AS PER HOWARD COUNTY DETAIL G-5.41. SEE SHEET 4 OF 4 FOR TOP ELEVATIONS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Rita Bunn 4-3-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John Drummond 4/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FREDERICK WARD ASSOCIATES, INC.
ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354
ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226
SURVEYORS Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: MHM					
DRN: CMH, ELW					
CHK: JCO					
DATE: MARCH 2003	BY	NO.	REVISION	DATE	

WATER & SEWER PLAN

600' SCALE MAP NO. 25
BLOCK NO. 1 & 2



THE WOODS AT PARK PLACE
LOTS 1-15 AND OPEN SPACE 16 & 17
CONTRACT NO. 14-4030-D

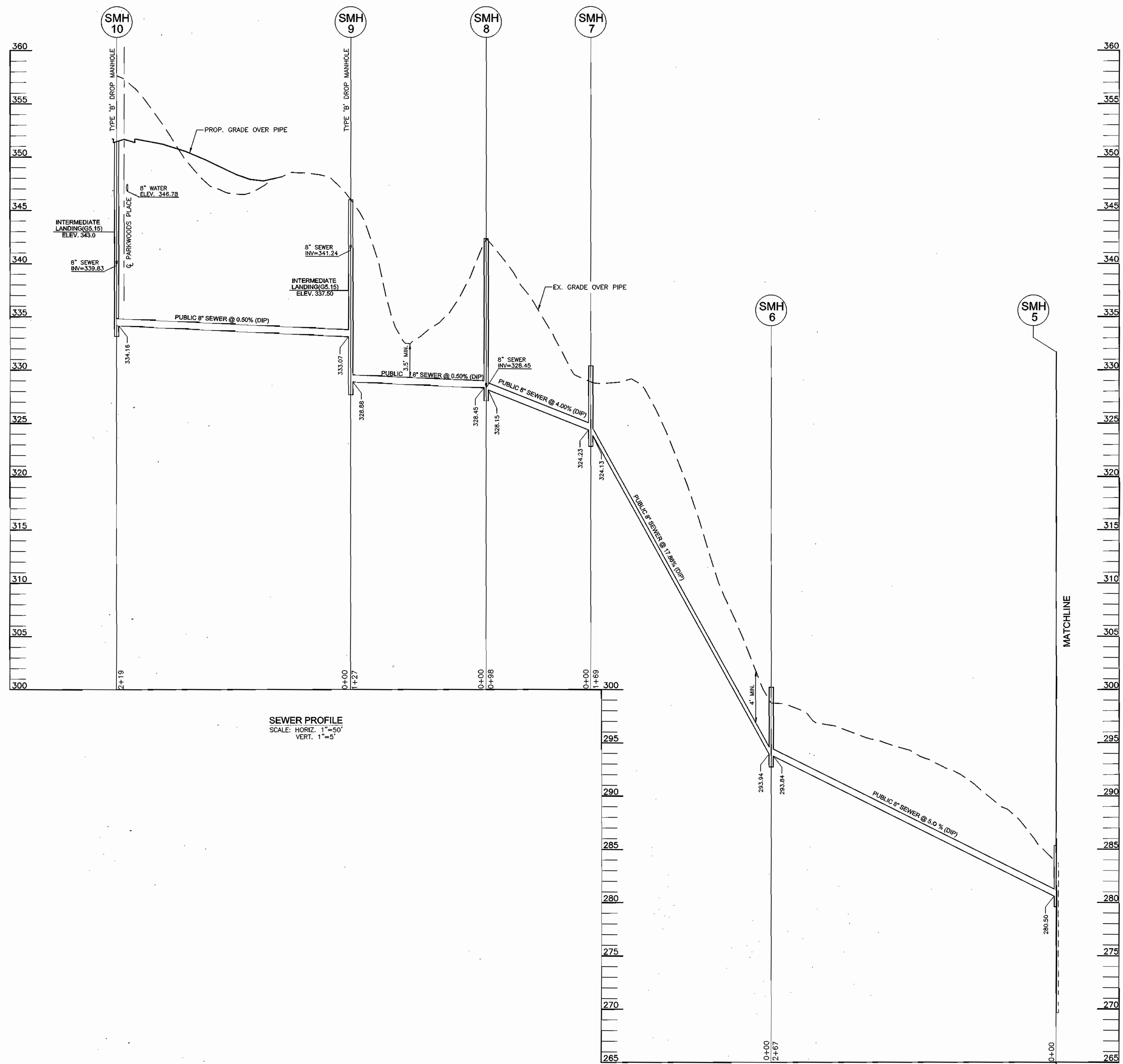
TAX MAP 25 BLOCKS 1 & 2
2ND ELECTION DISTRICT

PARCEL 3'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 2 OF 4

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



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

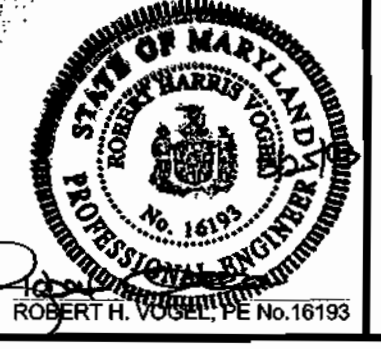
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Bump 4-3-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Michael Dammann 4/10/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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DRN:	CMH, ELW				
CHK:	JCO				
DATE:	MARCH 2003				

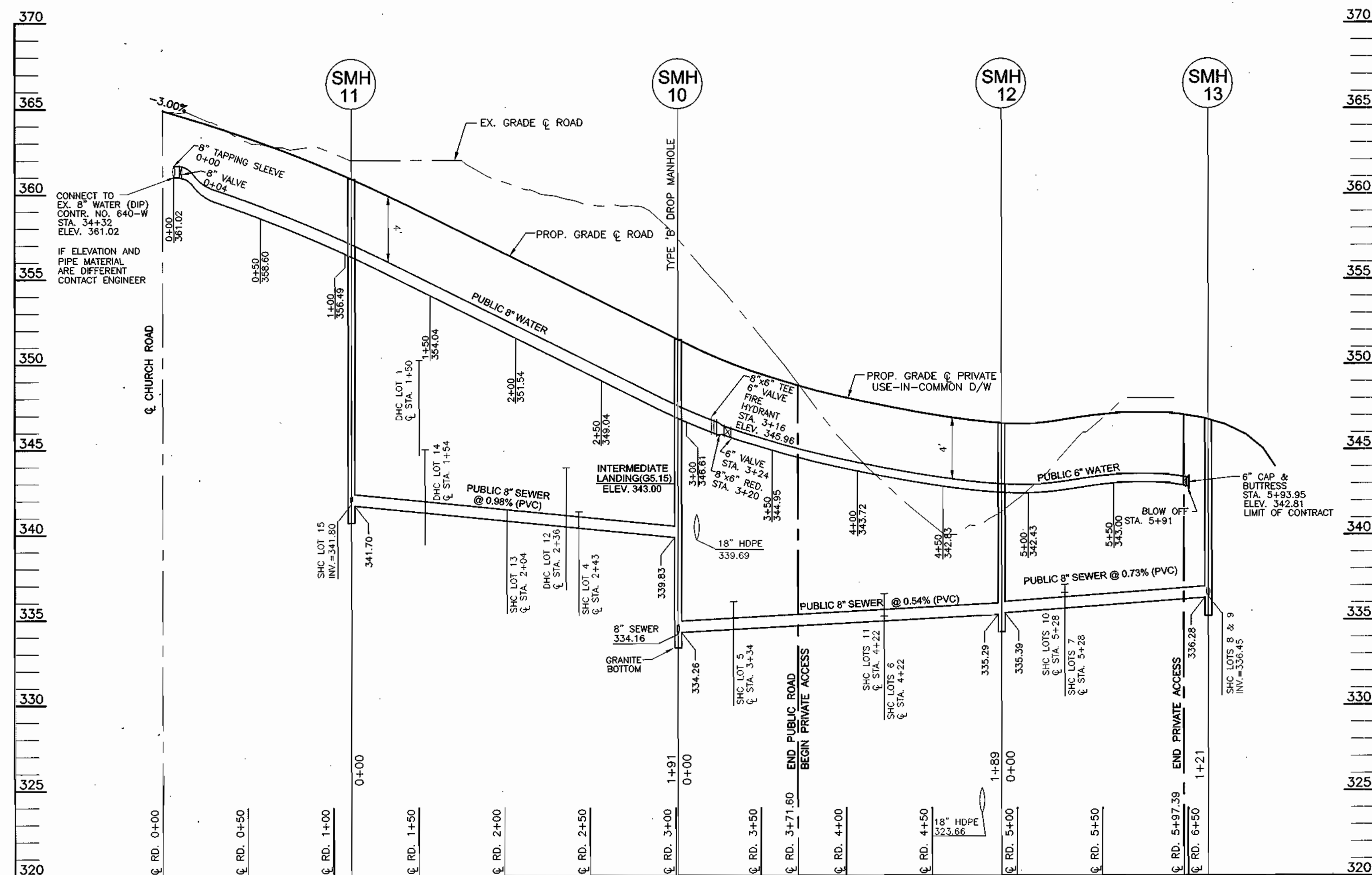
WATER & SEWER PROFILES
600' SCALE MAP NO. 25
BLOCK NO. 1 & 2



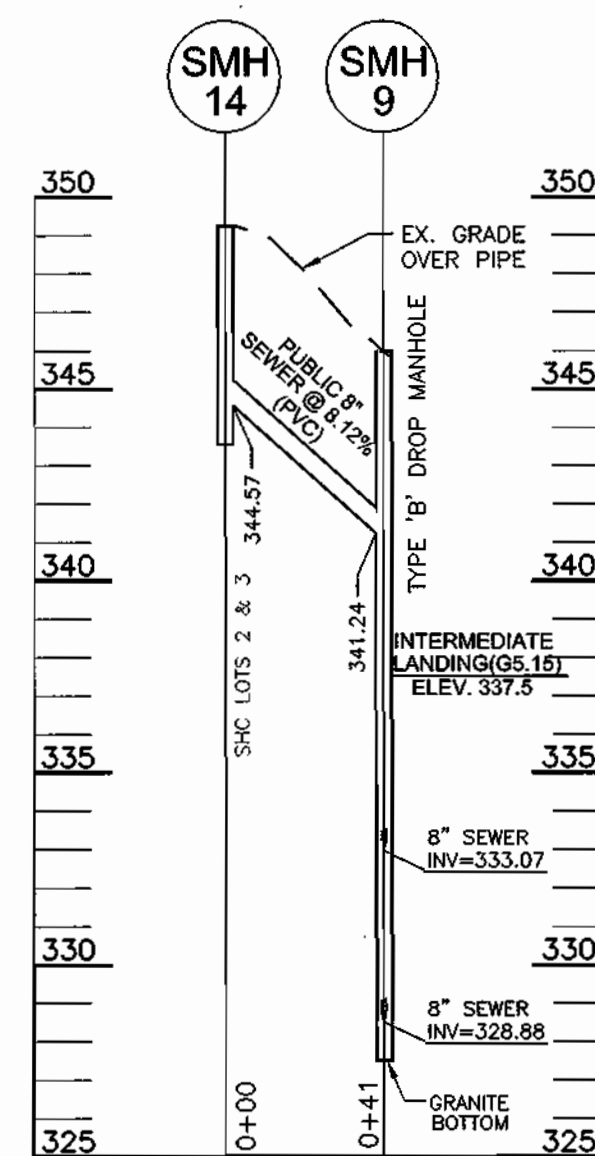
THE WOODS AT PARK PLACE
LOTS 1-15 AND OPEN SPACE 16 & 17
CONTRACT NO. 14-4030-D
TAX MAP 25 BLOCKS 1 & 2
2ND ELECTION DISTRICT
PARCEL 3
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

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WATER & SEWER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



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

SEWER CONNECTION TABULATION					
LOT NO	TYPE	ELEV. @ DROP	ELEV. @ MAN	ELEVATION @ R/W OR PUBLIC EASEMENT	M.C.E.
1	D.H.C. @ 5%	350.25	341.32	351.40	356.30
2	S.H.C.	344.67	344.67	344.91	350.20
3	S.H.C.	344.67	344.67	344.91	350.20
4	S.H.C. @ 5%	341.35	340.39	342.91	350.00
5	S.H.C.	338.06	334.43	336.66	340.90
6	S.H.C.	335.20	334.92	335.72	339.60
7	S.H.C.	336.58	335.65	337.01	340.50
8	S.H.C.	337.20	336.45	337.66	341.10
9	S.H.C.	336.45	336.45	336.81	340.30
10	S.H.C.	337.06	335.65	337.23	340.50
11	S.H.C.	336.52	334.92	336.61	340.10
12	D.H.C. @ 5%	343.94	340.47	344.40	351.10
13	S.H.C.	341.46	340.81	341.73	348.10
14	D.H.C. @ 5%	345.02	341.29	345.88	352.67
15	S.H.C.	341.80	341.80	342.08	348.10

MANHOLE LOCATION CHART				
MANHOLE NO.	TYPE	LOCATION	TOP ELEVATION	
SMH 1	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586141.73 E 1370438.69	214.00	
SMH 2	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586122.51 E 1370416.98	228.60	
SMH 3	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586102.22 E 1370394.05	240.10	
SMH 4	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586048.46 E 1370333.44	255.15	
SMH 5	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586002.97 E 1370098.69	285.36	
SMH 6	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 585953.50 E 1369830.27	300.21	
SMH 7	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 585817.86 E 1369729.25	330.60	
SMH 8	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 585739.27 E 1369670.72	342.33	
SMH 9	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 585811.46 E 1369566.50	346.00	
SMH 10	STD. PRECAST MH HO. CO. STD. DET. G5.12	CL STA. 3+02.71-6.97' LT.	351.46	
SMH 11	STD. PRECAST MH HO. CO. STD. DET. G5.12	CL STA. 1+10.40-5.91' LT.	360.90	
SMH 12	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586089.14 E 1369497.98	345.54	
SMH 13	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 586203.65 E 1369534.95	347.00	
SMH 14	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 585777.75 E 1369543.10	349.24	

WATER MAIN LOCATION CHART		
CL ROAD	APPURTENANCE	OFFSET
	PARKWOODS PLACE	
0+06	8"x6" TAPPING SLEEVE	7' RT.
0+10	8" VALVE	7' RT.
3+24	8"x6" TEE	2' RT.
3+24	6" VALVE	6' RT.
3+28	8"x6" REDUCER	2' RT.
3+32	6" VALVE	1' RT.
6+00	BLOWOFF	6' RT.
9+24	PURE HYDRANT	14' RT.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

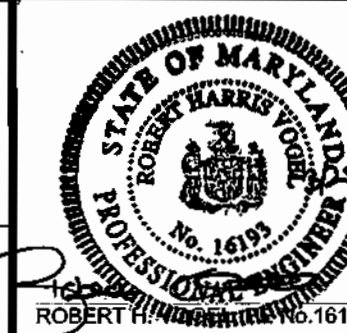


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Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES:	MHM				
DRN:	CMH, ELW				
CHK:	JCO				
DATE:	MARCH 2003	BY	NO.	REVISION	DATE

WATER & SEWER PROFILES

600' SCALE MAP NO. 25
BLOCK NO. 1 & 2



THE WOODS AT PARK PLACE
LOTS 1-15 AND OPEN SPACE 16 & 17
CONTRACT NO. 14-4030-D

TAX MAP 25 BLOCKS 1 & 2
2ND ELECTION DISTRICT

PARCEL 3
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 4 OF 4

R. L. Benjamin 4-3-03
CHIEF, BUREAU OF UTILITIES

Michael D. Williams 4/16/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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NO. OF WATER HOUSE CONNECTIONS:	15
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DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTE WATER TREATMENT PLANT

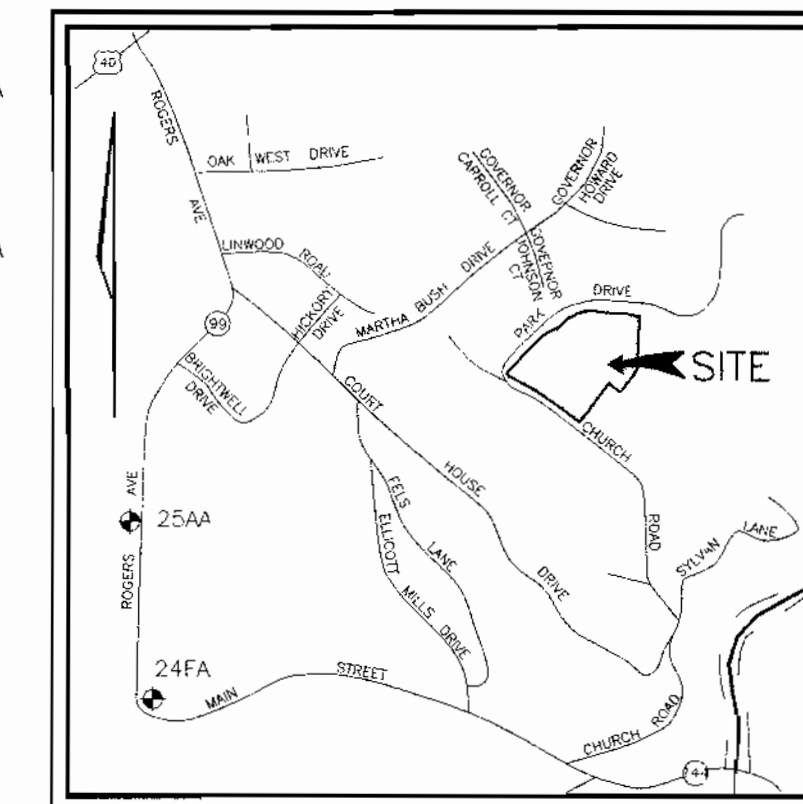
THE WOODS AT PARK PLACE

LOTS 1-15 AND OPEN SPACE 16 & 17

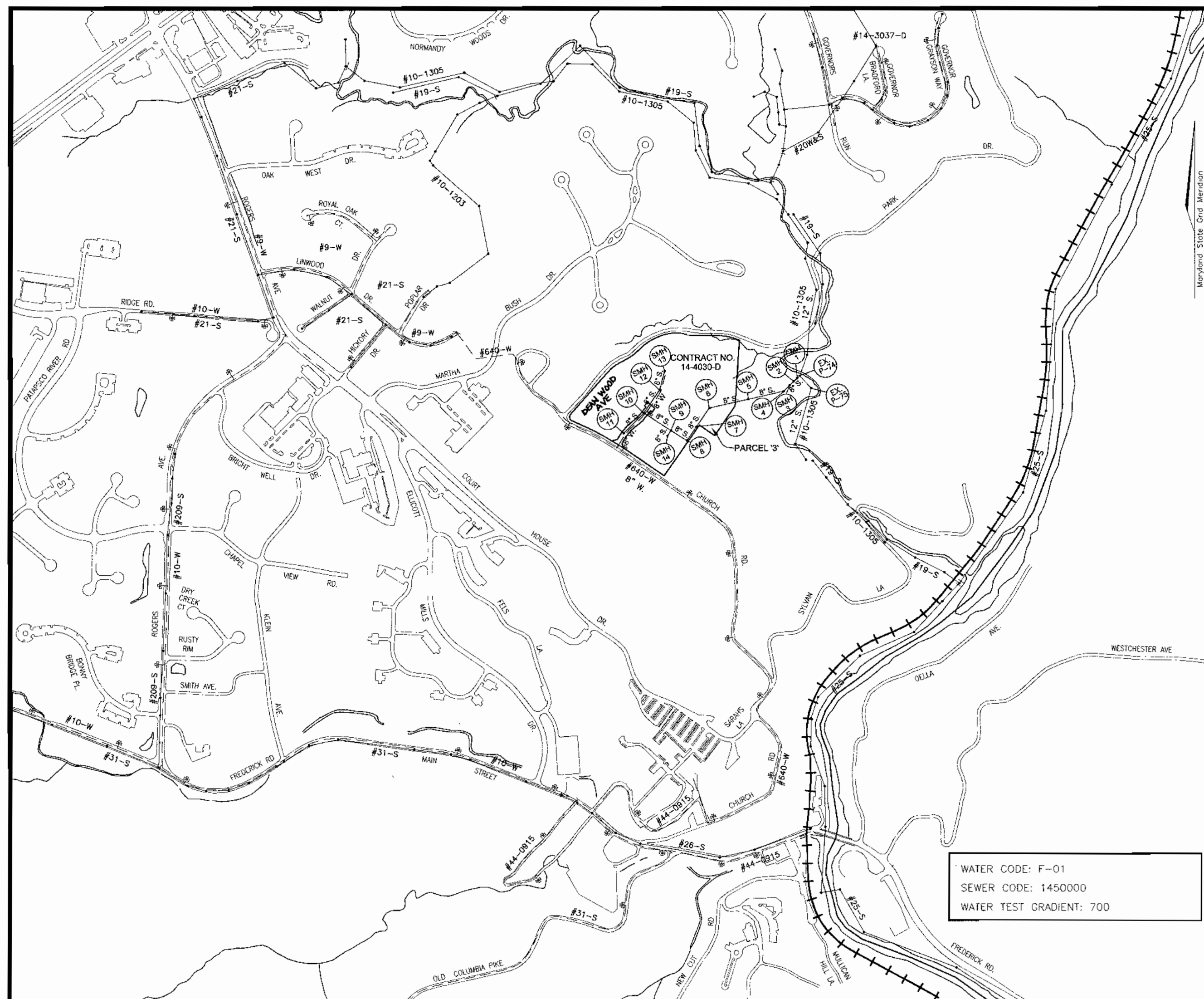
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4030-D

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 ELEV. = 263.701'
 BENCHMARK NO. 2: COUNTY CONTROL #25AA
 N. 585,307.185, E. 1,366,071.024
 ELEV. = 308.447'



VICINITY MAP
SCALE: 1" = 2000'



LOCATION PLAN
SCALE: 1"=600'

QUANTITIES				
NAME OF UTILITY CONTRACTOR :				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W	595 LF			
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8"x8" TAPPING SLEEVE	1 EACH			
8"x6" TEE	1 EACH			
8" V	1 EACH			
6" V	2 EACH			
8"x6" REDUCER	1 EACH			
8" CAP & BUTTRESS	1 EACH			
8" S (DIP)	755 LF			
8" S (PVC)	552 LF			
8" STOPPER	1 EACH			
MANHOLES	12 EACH			
12" BELWER (DIP)	320 LF			

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-02-154

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

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

[Signature]
 SOIL CONSERVATION DISTRICT
 DATE

[Signature]
 NATURAL RESOURCES CONSERVATION SERVICE
 DATE 4/9/03

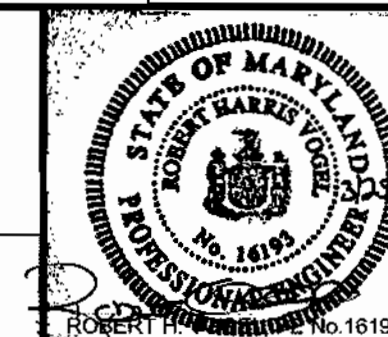
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

FREDERICK WARD ASSOCIATES, INC.
 7125 Riverwood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-8226
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: MHM			
DRN: CMH			
CHK: JCO			
DATE: MARCH 2003	JCO 1	ADD 12" SEWER + REVISED MANHOLES TO QUANTITIES	11/26/03
	BY NO.	REVISION	DATE

TITLE SHEET



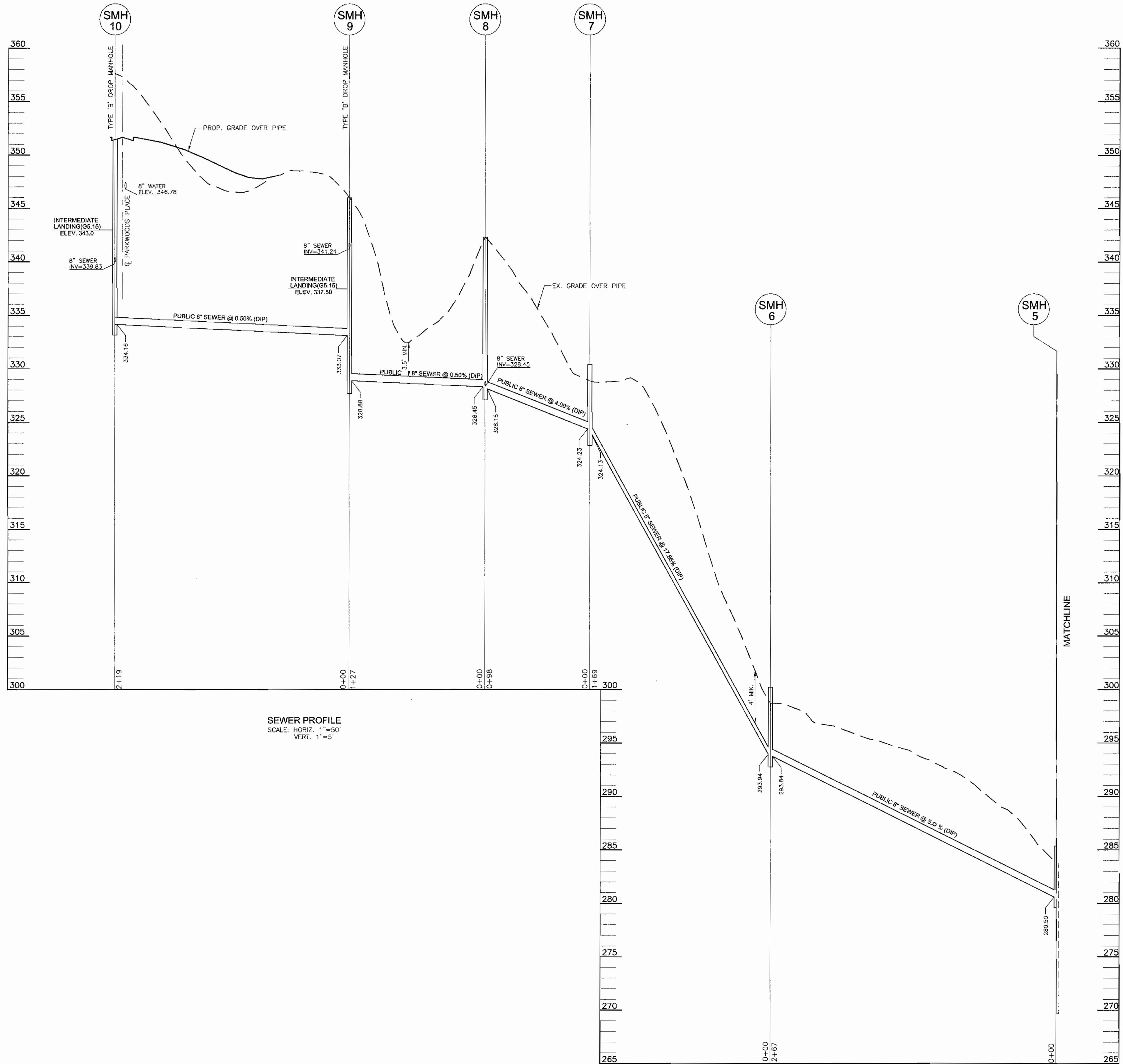
THE WOODS AT PARK PLACE
 LOTS 1-15 AND OPEN SPACE 16 & 17
 CONTRACT NO. 14-4030-D

SCALE AS SHOWN

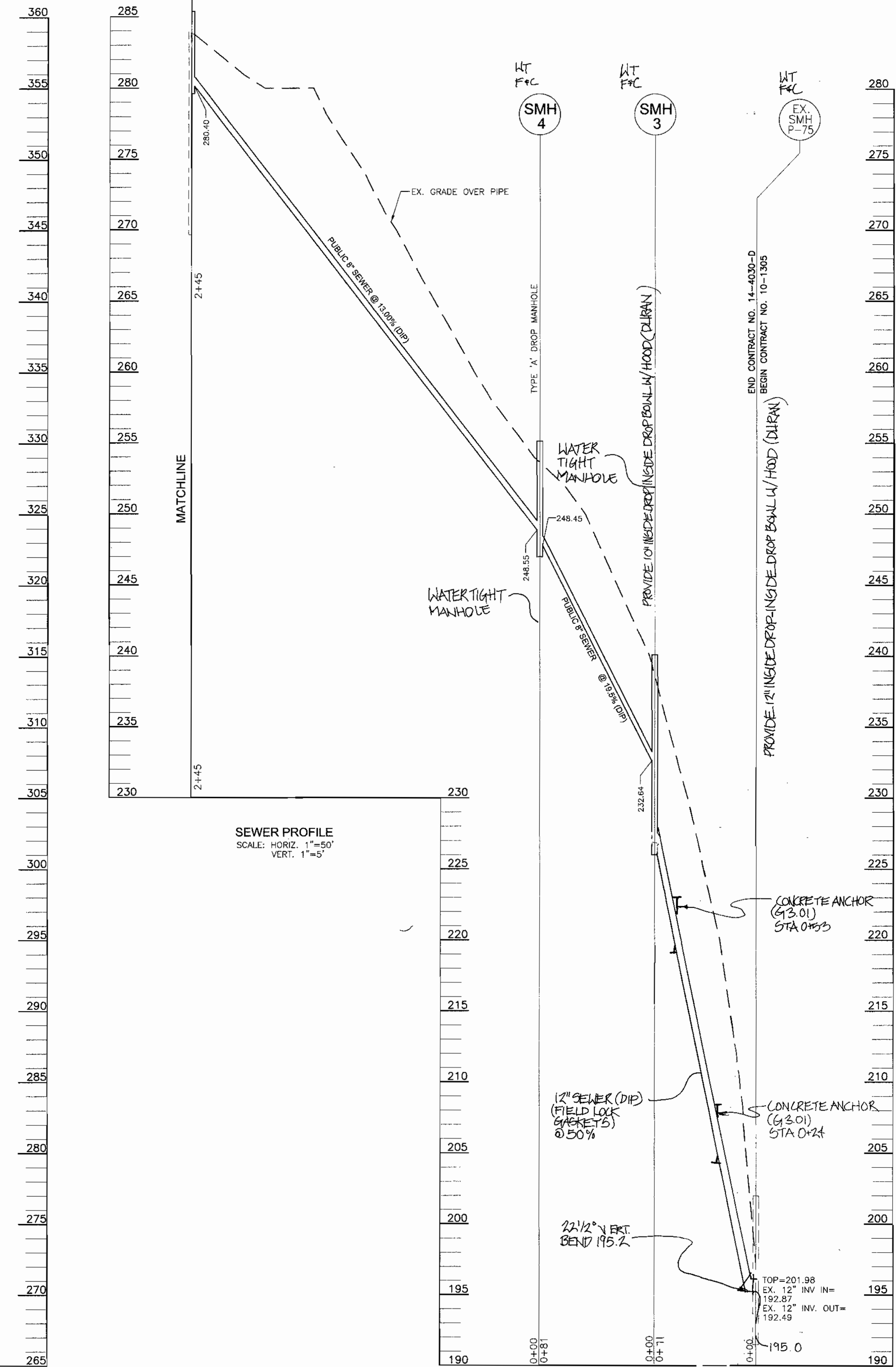
SHEET 1 OF 4

TAX MAP 25 BLOCKS 1 & 2
 2ND ELECTION DISTRICT

PARCEL 3
 HOWARD COUNTY, MARYLAND



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



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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

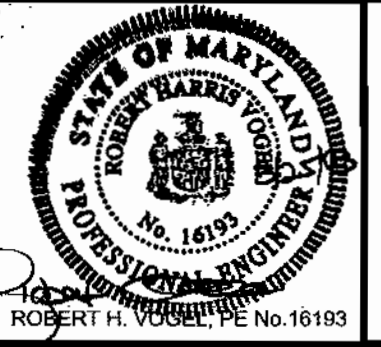
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS Phone: 410-290-9550 Fax: 410-720-6226
 SURVEYORS Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES:	MHM				
DRN:	CMH, ELW				
CHK:	JCO				
DATE:	MARCH 2003	BY:	JCO	NO. 1	REVISION
					DELETE MANHOLES 1+2 AND ADD 10" DIP BETWEEN SMH 3 AND EX. MANHOLE AT WATER TIGHT MANHOLE 2+21.50
					11/26/03

WATER & SEWER PROFILES

600' SCALE MAP NO. 25
BLOCK NO. 1 & 2



THE WOODS AT PARK PLACE
LOTS 1-15 AND OPEN SPACE 16 & 17
CONTRACT NO. 14-4030-D

TAX MAP 25 BLOCKS 1 & 2
2ND ELECTION DISTRICT

PARCEL 3'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

K:\PROJECTS\20191431\Drawings\14-4030-D\DWG\FW\14-4030-D-10-1303.dwg Fr-1 Mgr-21 10:51:41 2003 e1w

GENERAL NOTES

- PART I**
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES. (NAD '83)
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S DATA.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
 - WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN THESE PLANS:

C. & P. TELEPHONE	597-8585
A.T. & T.	865-3803
STATE HIGHWAY ADMINISTRATION	531-5533
B.G.&E. CO. CONTRACTOR SERVICES	850-4620
B.G.&E. CO. UNDER GROUND DAMAGE CONTROL	787-9068
MISS. UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES	313-4900
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.

PART II - WATER

- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.

PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL C5.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 18" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S" INDICATES THAT CELLAR CANNOT BE SERVED.

TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	17
NO. OF WATER HOUSE CONNECTIONS:	15
NO. OF SEWER HOUSE CONNECTIONS:	15
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTE WATER TREATMENT PLANT

THE WOODS AT PARK PLACE

LOTS 1-15 AND OPEN SPACE 16 & 17

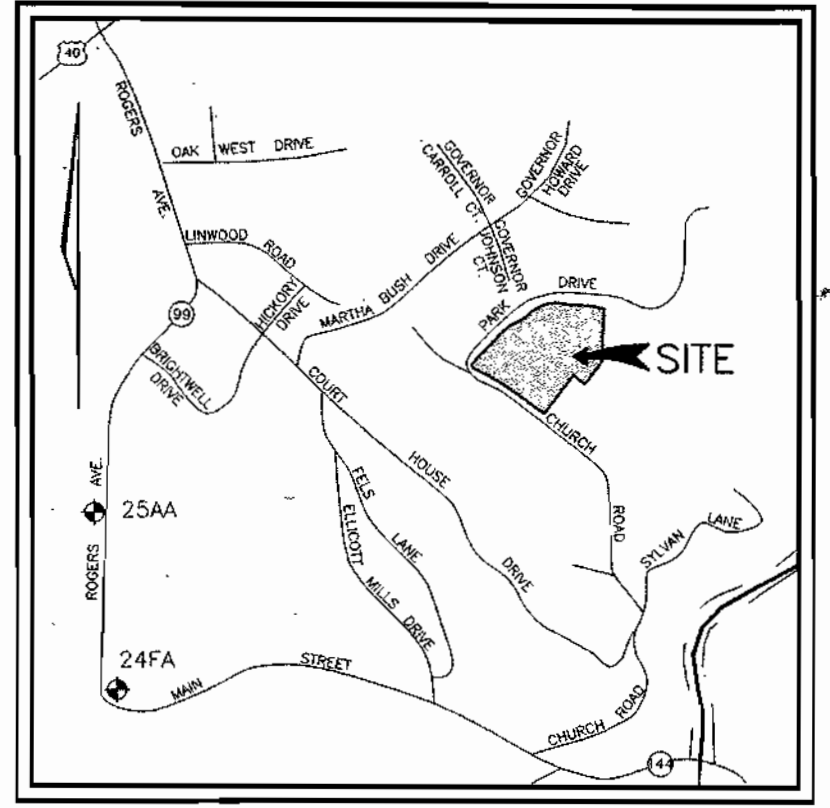
HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4030-D

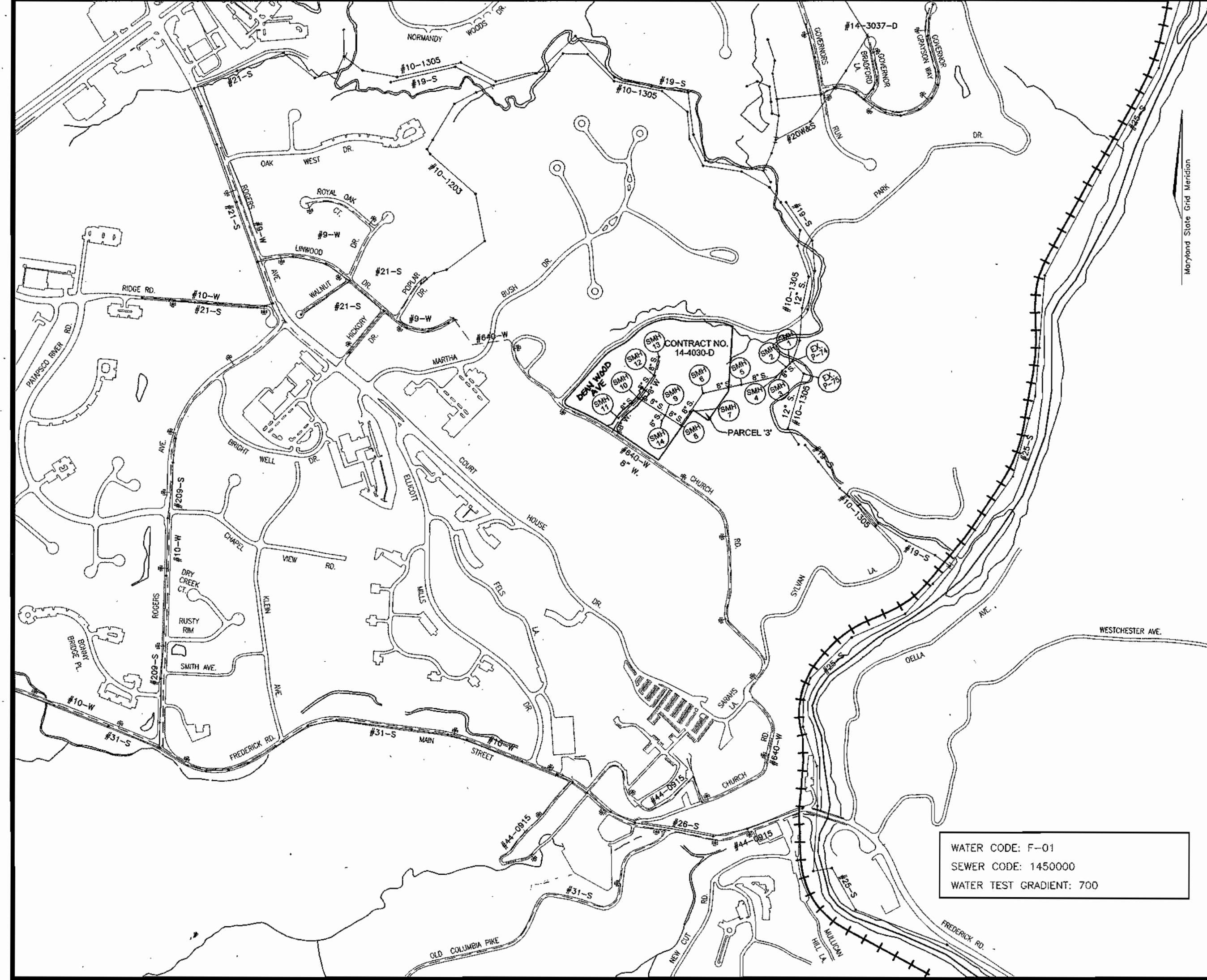
BENCHMARKS

BENCHMARK NO. 1: COUNTY CONTROL #24FA
 N. 583,751.410, E. 1,366,091.943
 ELEV. = 263.701'

BENCHMARK NO. 2: COUNTY CONTROL #25AA
 N. 585,307.185, E. 1,366,071.024
 ELEV. = 308.447'



VICINITY MAP
 SCALE: 1" = 2000'



LOCATION PLAN
 SCALE: 1"=600'

QUANTITIES					
NAME OF UTILITY CONTRACTOR : C.C.S.					
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :					
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	AS-BUILT		
			TYPE	MANUFACTURER/SUPPLIER	
8" W	595 LF	318	DIP	GRIFPIN	BELAIR RD. SUPPLY
6" W	10 LF	287	DIP	"	"
FIRE HYDRANT	1 EACH	1ea	"	MUELLER	"
8"X8" TAPPING SLEEVE	1 EACH	1ea	STAINLESS	"	"
8"X6" TEE	1 EACH	1ea	DIP	O.S. PIPE	"
8" V	1 EACH	1ea	"	"	"
6" V	2 EACH	1ea	"	"	"
8"X6" REDUCER	1 EACH	1ea	"	"	"
8" CAP & BUTTRESS	1 EACH	0	"	"	"
8" S (DIP)	755 LF	1078	DIP	GRIFPIN	"
8" S (PVC)	552 LF	526	P.V.C.	J.M. MANUFACTURING	"
8" STOPPER	1 EACH	0	"	"	"
MANHOLES	12 EACH	12ea	PRECAST	ATLANTIC PRECAST	"
12" SEWER (DIP)	320 LF	75 LF	DIP	GRIFPIN	BELAIR RD. SUPPLY

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-02-154

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

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

[Signatures] DATE: 4/9/03

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 4-3-03
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

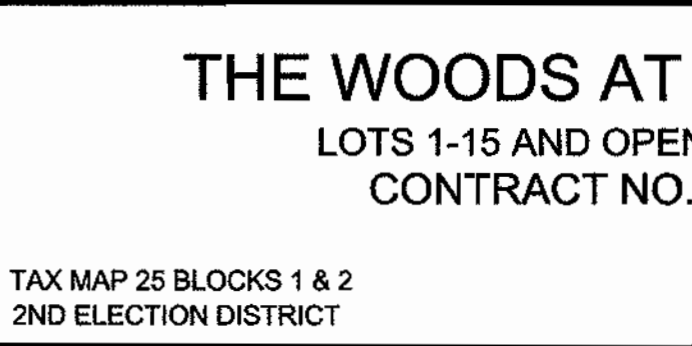
[Signature] 4/10/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

FREDERICK WARD ASSOCIATES, INC.
 7125 Riverwood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-6226
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: MHM			
DRN: CMH			
CHK: JCO	KCI 2	AS-BUILT DATA ADDED TO PLAN	04/27/04
DATE: MARCH 2003	JCO 1	ADD 12" SEWER + REVISION MANHOLES TO QUANTITIES	11/20/03
BY NO.		REVISION	DATE

TITLE SHEET

600' SCALE MAP NO. 25
 BLOCK NO. 1 & 2

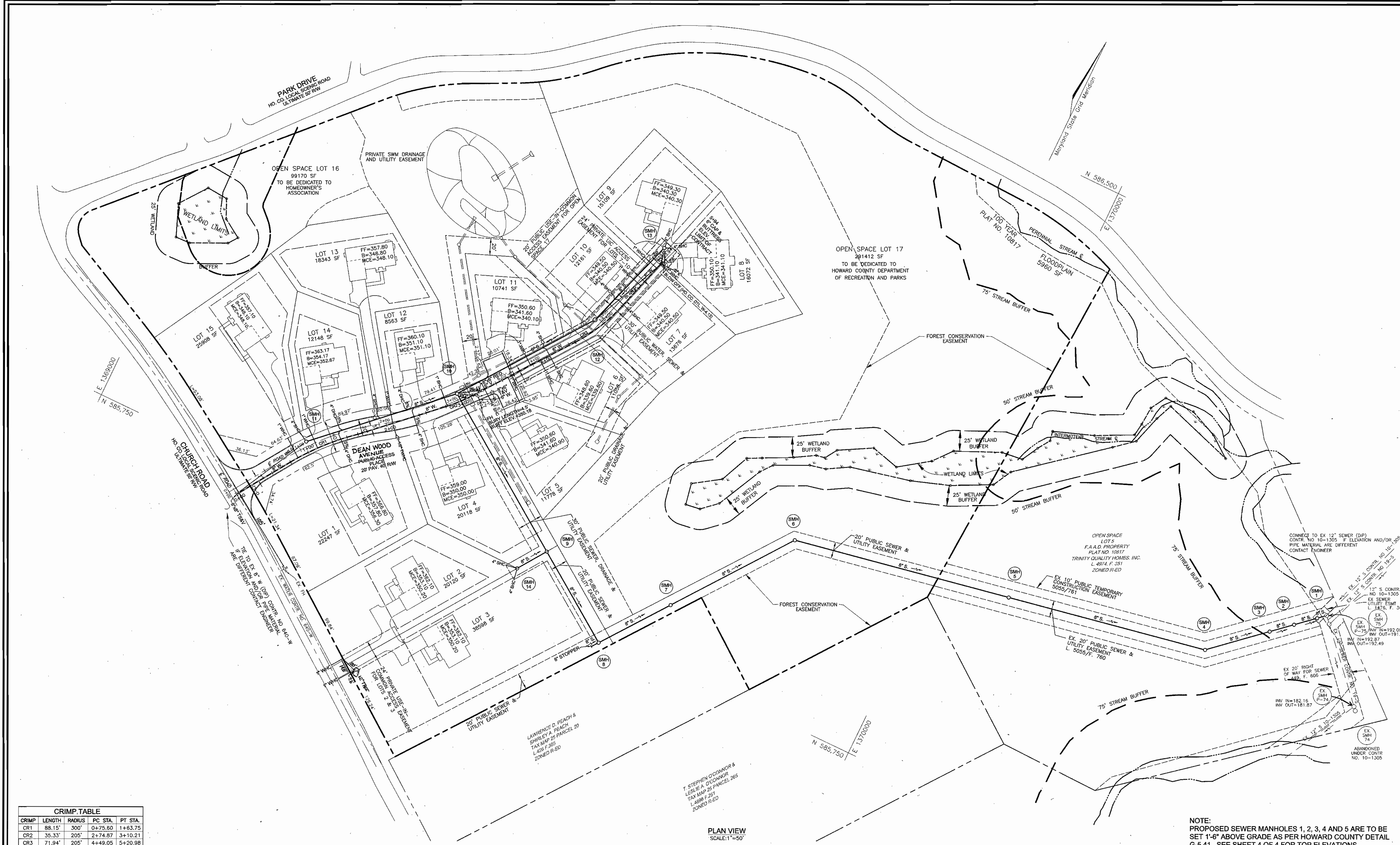


THE WOODS AT PARK PLACE
 LOTS 1-15 AND OPEN SPACE 16 & 17
 CONTRACT NO. 14-4030-D

TAX MAP 25 BLOCKS 1 & 2
 2ND ELECTION DISTRICT

PARCEL 3'
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 4



CRIMP TABLE

CRIMP	LENGTH	RADIUS	PC STA.	PT STA.
CR1	88.15'	300'	0+75.60	1+63.75
CR2	35.33'	205'	2+74.87	3+10.21
CR3	71.94'	205'	4+49.05	5+20.98

NOTE:
 PROPOSED SEWER MANHOLES 1, 2, 3, 4 AND 5 ARE TO BE SET 1'-6" ABOVE GRADE AS PER HOWARD COUNTY DETAIL G-5.41. SEE SHEET 4 OF 4 FOR TOP ELEVATIONS

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

R. J. B... 4-3-03
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

... 4/1/03
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS ARCHITECTS SURVEYORS
 7125 Riverwood Drive Columbia, Maryland 21046-2354
 Phone: 410-290-9550 Fax: 410-720-6226
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES:	MHM		
DRN:	CMH, ELW		
CHK:	JCO		
DATE:	MARCH 2003		
KCI:	1	ASBUILT DATA ADDED TO PLAN	04/27/04
BY:	NO.	REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25
 BLOCK NO. 1 & 2



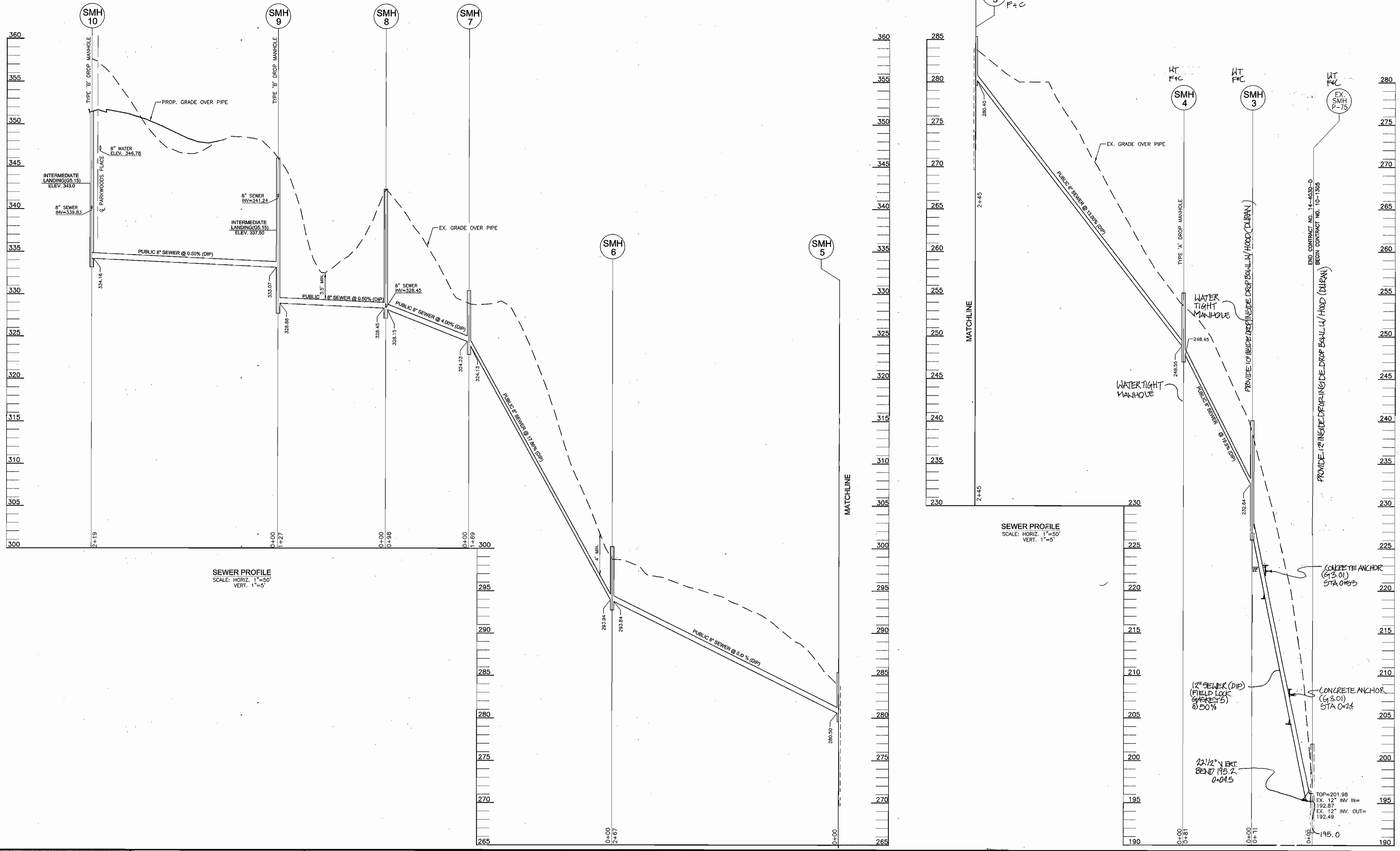
THE WOODS AT PARK PLACE
 LOTS 1-15 AND OPEN SPACE 16 & 17
 CONTRACT NO. 14-4030-D

TAX MAP 25 BLOCKS 1 & 2
 2ND ELECTION DISTRICT

PARCEL 3'
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 4

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

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert H. Venable 4-3-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
John D. ... 4/1/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FREderick WARD ASSOCIATES, INC.
7125 Riverwood Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

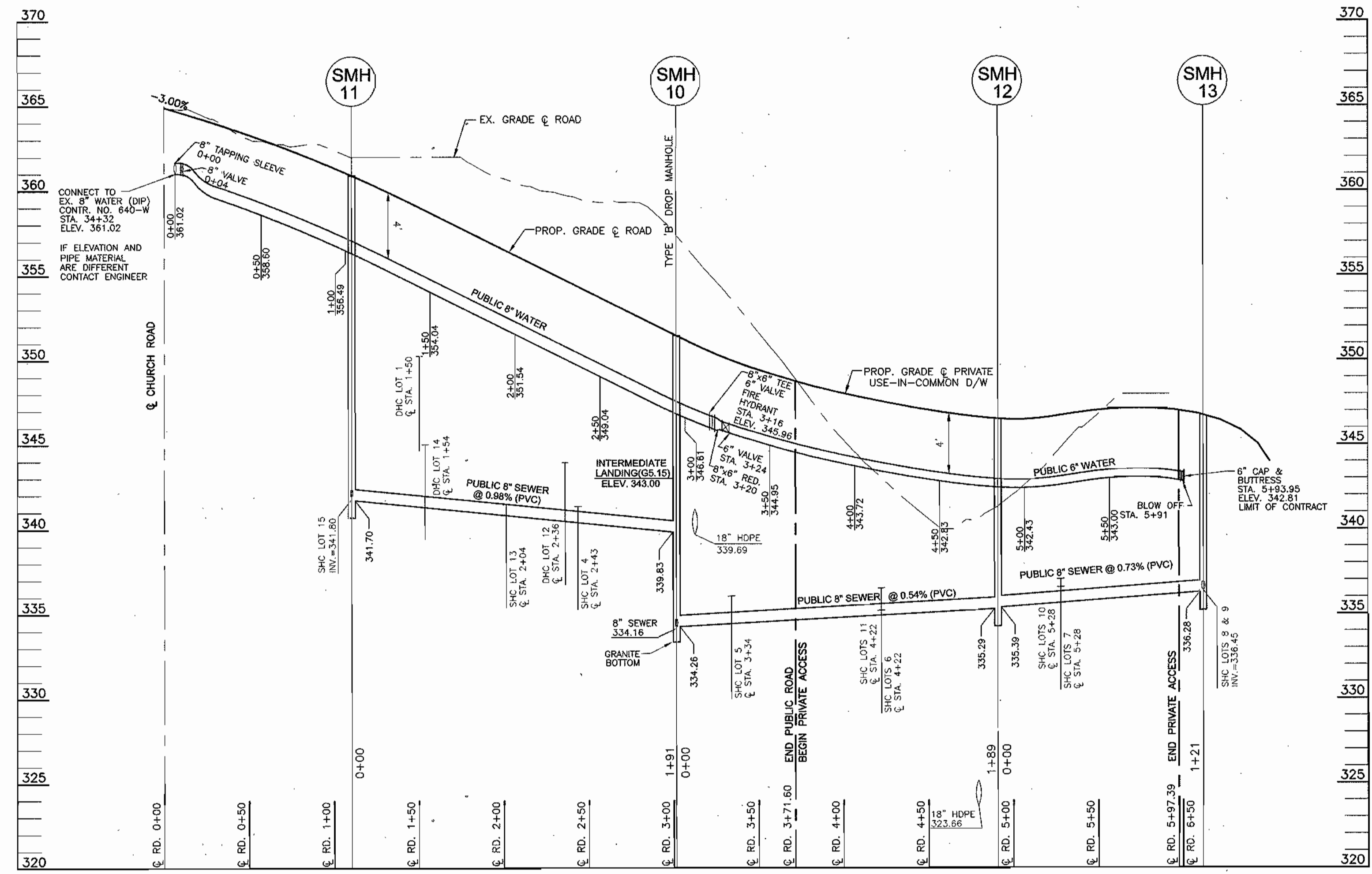
DES:	MHM		
DRN:	CMH, ELW		
CHK:	JCO	K01 2	ASBUILT DATA ADDED TO PLAN 04/27/04
DATE:	MARCH 2003	JCO	DELETE MANHOLES 1-2 AND ADD 12" DIP BETWEEN MANHOLES 2 & 3 AND EX. 12" INV. BETWEEN MANHOLES 2 & 3 11/26/03
BY:	NO.		REVISION
			DATE

WATER & SEWER PROFILES
600' SCALE MAP NO. 25
BLOCK NO. 1 & 2
ROBERT H. VENABLE No. 16193

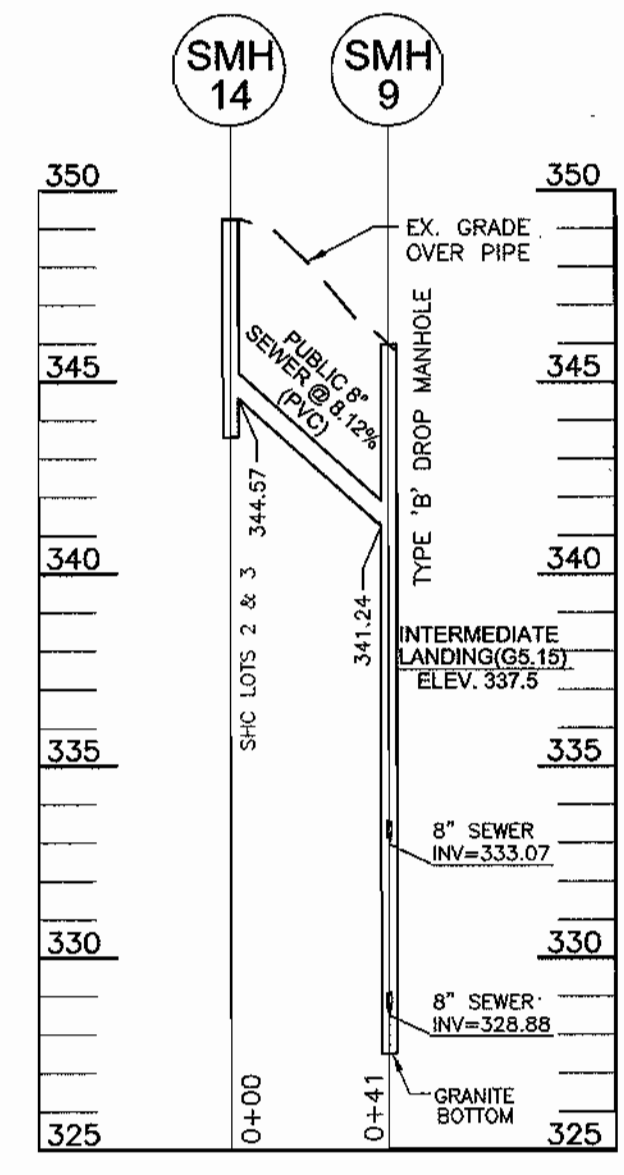
THE WOODS AT PARK PLACE
LOTS 1-15 AND OPEN SPACE 16 & 17
CONTRACT NO. 14-4030-D
TAX MAP 25 BLOCKS 1 & 2
2ND ELECTION DISTRICT
PARCEL 13
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

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WATER & SEWER PROFILE
SCALE: HORIZ. 1"=50'
VERT. 1"=5'



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

WATER AS-BUILT DATA

LOT	TO	DIST. '
1	WHC 1	0.6
1	MH 10	43.1
1	MH 11	106.3
4	MH 10	87
4	MH 11	112.2
5	MH 12	78
5	MH 12	131
6	"	82
6	MH 10	108.8
7	MH 12	73.9
7	MH 13	56.8
8	"	27.8
8	MH 12	158.7
9	"	121.4
9	MH 13	24.6
9	"	52.7
10	MH 12	72
10	"	91.4
11	MH 10	78.8
12	"	20.6
12	WHC 13	64.8
13	MH 12	83.6
13	MH 11	109
13	"	18.6
14	WHC 15	22.2
14	"	28.6
15	MH 11	24.8

* ALL MEASUREMENTS TO WHC UNLESS OTHERWISE NOTED.

SEWER AS-BUILT DATA

LOT	TO	DIST. '
1	MH 11	47
2	MH 9	24
2	MH 11	15.3
3	"	15
3	MH 9	58.5
4	MH 10	71.4
5	"	43.3
5	MH 12	133.9
6	"	65.5
6	MH 10	121
7	MH 12	45
7	MH 13	84.7
8	"	13.8
8	MH 12	134
9	"	132.5
9	MH 15	9
10	"	83.6
10	MH 12	42.2
11	"	66
11	MH 10	119
12	"	68
12	SAC 13	20.5
13	MH 11	93.4
14	"	26.4
14	SAC 15	28.6
15	MH 11	16.6

* ALL MEASUREMENTS TO SHC UNLESS OTHERWISE NOTED.

LOT NO	TYPE	ELEV. @ DROP	ELEV. @ MAIN	ELEVATION @ R/W OR PUBLIC EASEMENT	M.C.E.
1	D.H.C. @ 5%	350.25	341.32	351.40	956.30
2	S.H.C.	344.67	344.67	344.91	350.20
3	S.H.C.	344.67	344.67	344.91	350.20
4	S.H.C. @ 5%	341.35	340.39	342.91	350.00
5	S.H.C.	336.08	334.43	336.66	340.90
6	S.H.C.	335.20	334.92	335.72	339.60
7	S.H.C.	336.58	335.65	337.01	340.50
8	S.H.C.	337.20	336.45	337.66	341.10
9	S.H.C.	336.45	336.45	336.81	340.30
10	S.H.C.	337.06	335.65	337.23	340.50
11	S.H.C.	336.52	334.92	336.61	340.10
12	D.H.C. @ 5%	343.94	340.47	344.40	351.10
13	S.H.C.	341.46	340.81	341.73	348.10
14	D.H.C. @ 5%	345.02	341.29	345.88	352.67
15	S.H.C.	341.80	341.80	342.08	348.10

MANHOLE NO.	TYPE	LOCATION	TOP ELEVATION
SMH 1	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586141.73 E 1370438.69	214.00
SMH 2	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586122.51 E 1370416.98	228.60
SMH 3	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586102.22 E 1370394.05	240.10
SMH 4	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586048.46 E 1370333.44	255.15
SMH 5	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586002.97 E 1370098.69	285.36
SMH 6	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 585943.50 E 1369830.27	300.21
SMH 7	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 585817.86 E 1369729.25	330.60
SMH 8	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 585739.27 E 1369670.72	342.33
SMH 9	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 585811.46 E 1369566.50	346.00
SMH 10	STD. PRECAST MH HO. CO. STD. DET. GS.12	CL STA. 3+02.71-6.97' LT.	351.46
SMH 11	STD. PRECAST MH HO. CO. STD. DET. GS.12	CL STA. 1+10.40-5.91' LT.	360.90
SMH 12	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586089.14 E 1369497.98	346.54
SMH 13	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 586203.65 E 1369534.95	347.00
SMH 14	STD. PRECAST MH HO. CO. STD. DET. GS.12	N 585777.75 E 1369543.10	349.24

CL ROAD	APPURTENANCE	OFFSET
0+06	8"x8" TAPPING SLEEVE	7' RT.
0+10	8" VALVE	7' RT.
3+24	8"x6" TEE	2' RT.
3+24	6" VALVE	6' RT.
3+28	8"x6" REDUCER	2' RT.
3+32	6" VALVE	1' RT.
6+00	BLOWOFF	6' RT.
9+24	PURE HYDRANT	14' RT.

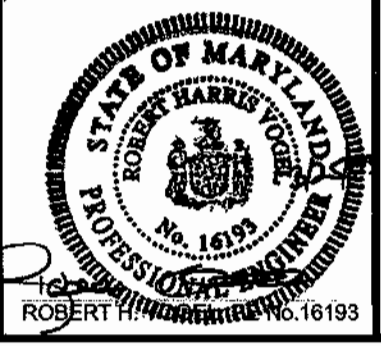
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
R. L. Benjamin 4-3-03
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
[Signature] 4/16/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FREDERICK WARD ASSOCIATES, INC.
7125 Riverwood Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Columbia, Maryland Warrenton, Virginia

DES: MHM			
DRN: CMH, ELW			
CHK: JCO			
DATE: MARCH 2003	KCI 1	ASBUILT DATA ADDED TO PLANS	04/27/04
BY NO.		REVISION	DATE

WATER & SEWER PROFILES
600' SCALE MAP NO. 25
BLOCK NO. 1 & 2



THE WOODS AT PARK PLACE
LOTS 1-15 AND OPEN SPACE 16 & 17
CONTRACT NO. 14-4030-D
TAX MAP 25 BLOCKS 1 & 2
2ND ELECTION DISTRICT

SCALE AS SHOWN
SHEET 4 OF 4