


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.
 - 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. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONTACTS.
 - 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	331-5533
B.G. & C. CONTRACTOR SERVICES	850-4620
B.G. & C. UNDER GROUND DAMAGE CONTROL	787-9068
MISS. UTILITIES	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 18.14(c) OF THE HOWARD COUNTY CODE.

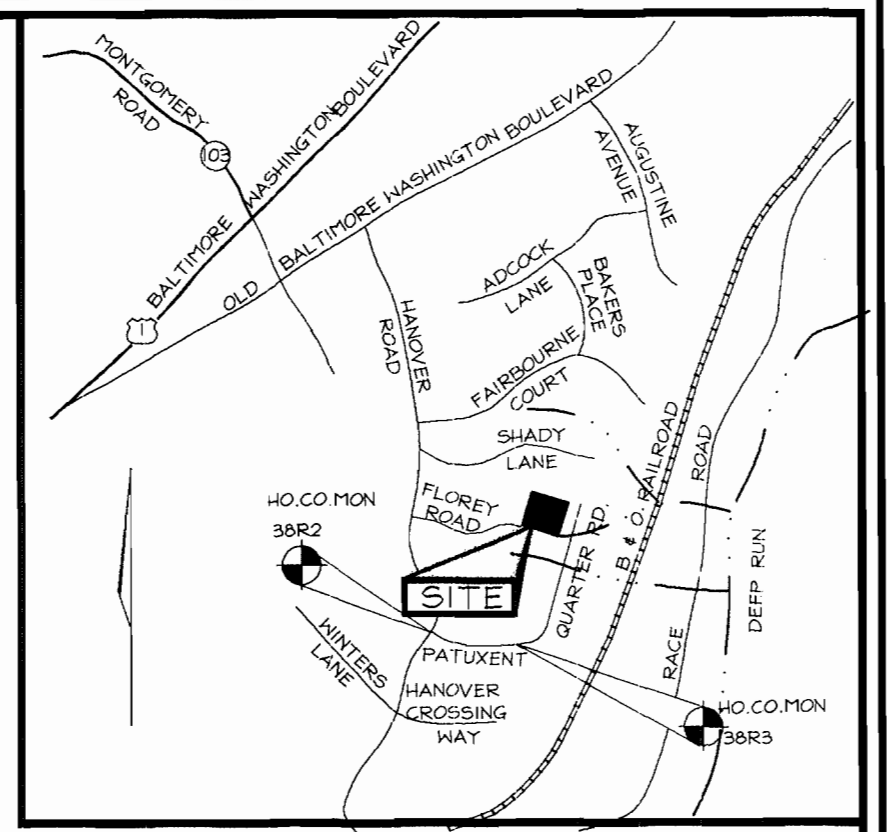
PART II - WATER

- 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.
- 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.

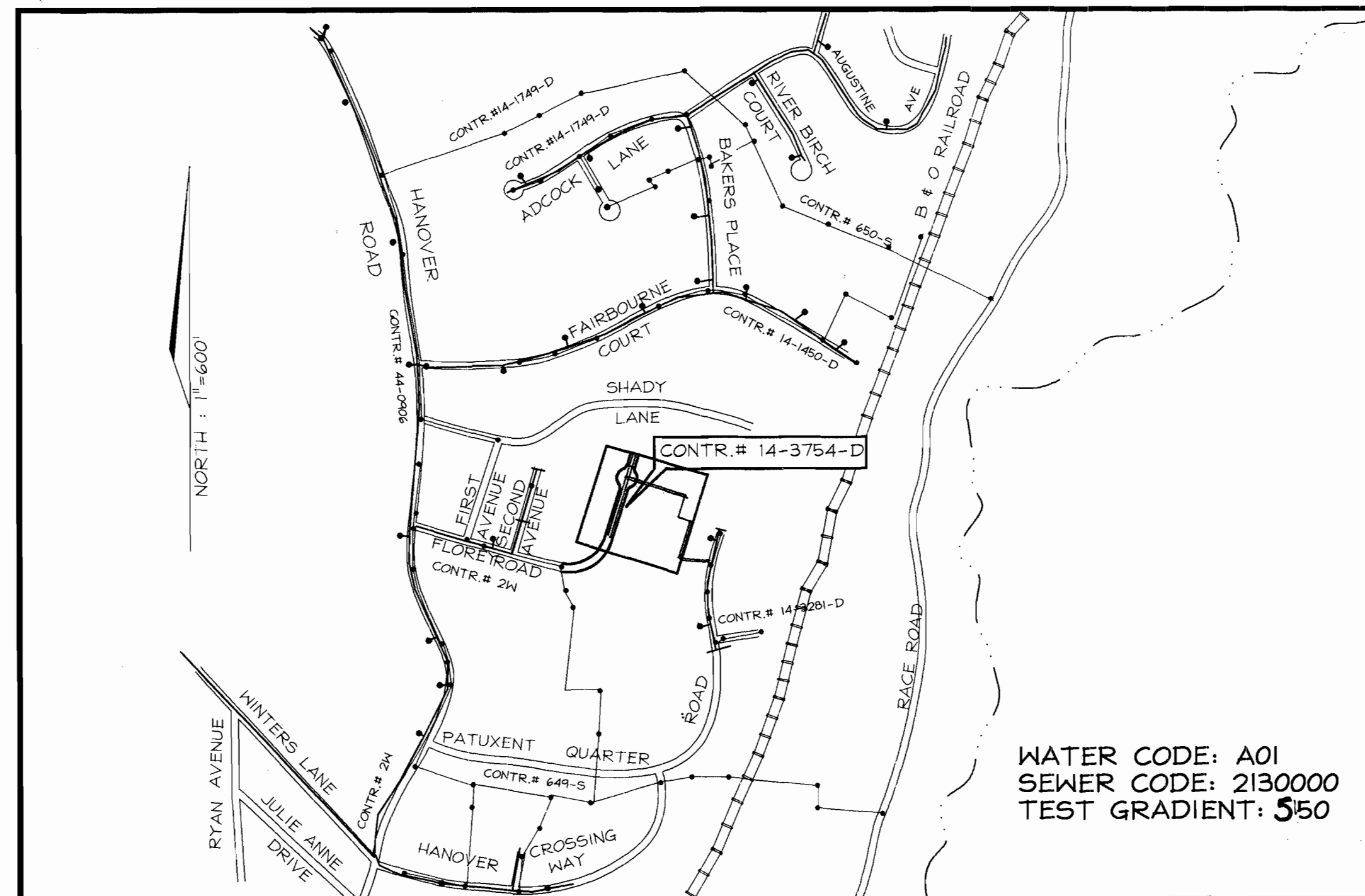
PART III - SEWER

- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 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 G5.52. 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.

WHITETAIL WOODS PUBLIC WATER AND SEWER PLANS HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3754-D



VICINITY MAP
SCALE: 1"=2000'



WATER CODE: A01
SEWER CODE: 2130000
TEST GRADIENT: 550

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
1 1/2" WHC	174 LF.			
1" WHC	100 LF.			
4" SHC	325 LF.			
MANHOLE	9			
8" SEWER	1,236 LF.			
6" VALVE	1			
8" VALVE	1			
8" X 6" TEE	2			
8" X 4" TEE	1			
FIRE HYDRANT	2			
8" CAP & BUTTRESS	1			
2" CAP & BUTTRESS	1			
8" 1/4 H.B.	2			
8" WATER	809 LF.			
4" WATER	317 LF.			
1 1/2" DRAIN	1			

TYPE OF BUILDING:	SINGLE FAMILY DETACHED
NO. OF LOTS/PARCELS:	19
NO. OF WATER HOUSE CONNECTIONS:	17
NO. OF SEWER HOUSE CONNECTIONS:	17
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP 99-160 & F-99-160

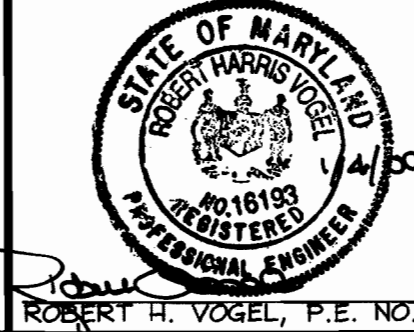
THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

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

[Signatures]
 SOIL CONSERVATION DISTRICT DATE: 1/12/00
 U.S. DEPARTMENT OF AGRICULTURE DATE: 1/12/00
 NATURAL RESOURCES SERVICE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



DES: RLP			
DRN: RLP			
CHK: RHV			
DATE: NOV. 1999			
BY NO.		REVISION	

TITLE SHEET

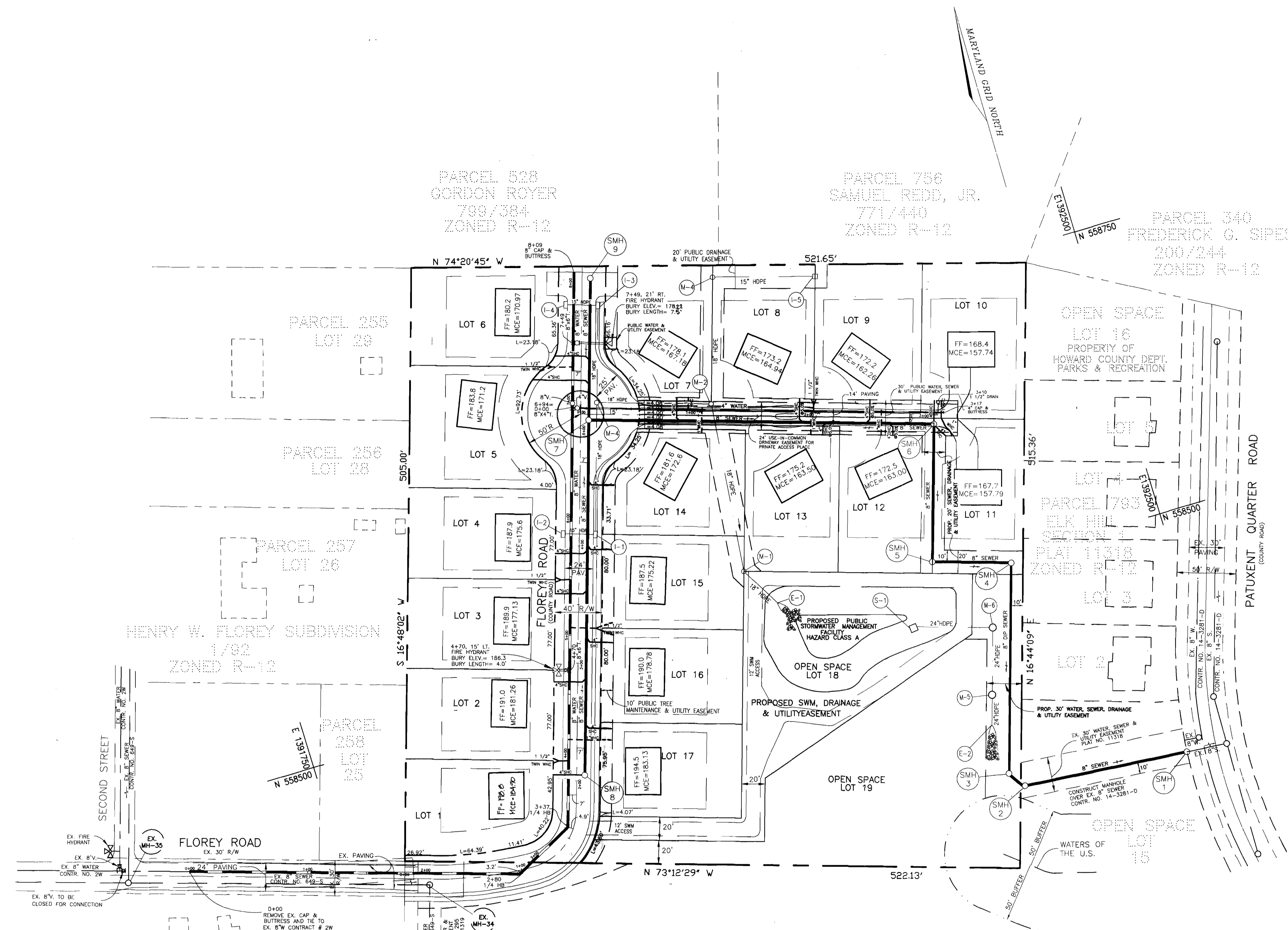
WHITETAIL WOODS
CONTRACT NO. 14-3754-D

SCALE AS SHOWN

SHEET 1 OF 4

TAX MAP #38 PARCELS #263 BLOCK # 15
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

600' SCALE MAP NO. 38 BLOCK NO. 15



ELK HILL SECTION 1
 PLAT 11318
 OPEN SPACE
 LOT 15
 ZONED R-12
 PROPERTY OF
 HOWARD COUNTY DEPT.
 PARKS & RECREATION

PLAN
 SCALE: 1"=50'

SEWER CONNECTION TABULATION		
MANHOLE NO.	LOCATION	TOP ELEV.
1	N 558299 E 1392464	123.0=
2	N 558311 E 1392324	121.3=
3	N 558322 E 1392313	121.7=
4	N 558496 E 1392367	153.5=
5	N 558516 E 1392304	161.0=
6	Q STA. 3+00.0, 5' RT. PRIVATE ACCESS PLACE	166.04
7	Q STA. 5+07.3, 7' RT. FLOREY ROAD	179.57
8	Q STA. 2+05.3, 7' RT. FLOREY ROAD	189.89
9	Q STA. 6+28.2, 7' RT. FLOREY ROAD	175.94

SEWER CONNECTION TABULATION			
LOT NO.	ELEV. @ MAIN ELEV. @ LOT/R.O.W.	M.C.E.	
1	120.40 120.94	120.90	
2	177.46 178.02	181.26	
3	173.13 177.13	177.13	
4	171.60 172.16	175.60	
5	166.70 166.70	171.20	
6	166.87 167.47	170.97	
7	163.08 163.48	167.18	
8	158.44 159.44	164.94	
9	155.76 156.76	162.26	
10	153.65 154.05	157.74	
11	153.65 155.89	157.79	
12	157.00 157.50	163.00	
13	157.50 158.00	163.50	
14	168.72 168.98	172.60	
15	171.42 171.68	175.22	
16	174.98 175.24	178.78	
17	179.43 179.69	183.13	

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert B. Beinger 1-10-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 1/14/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

VOGEL & ASSOCIATES
 ENGINEERS SURVEYORS PLANNERS
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel 410.461.5828 Fax 410.465.3966

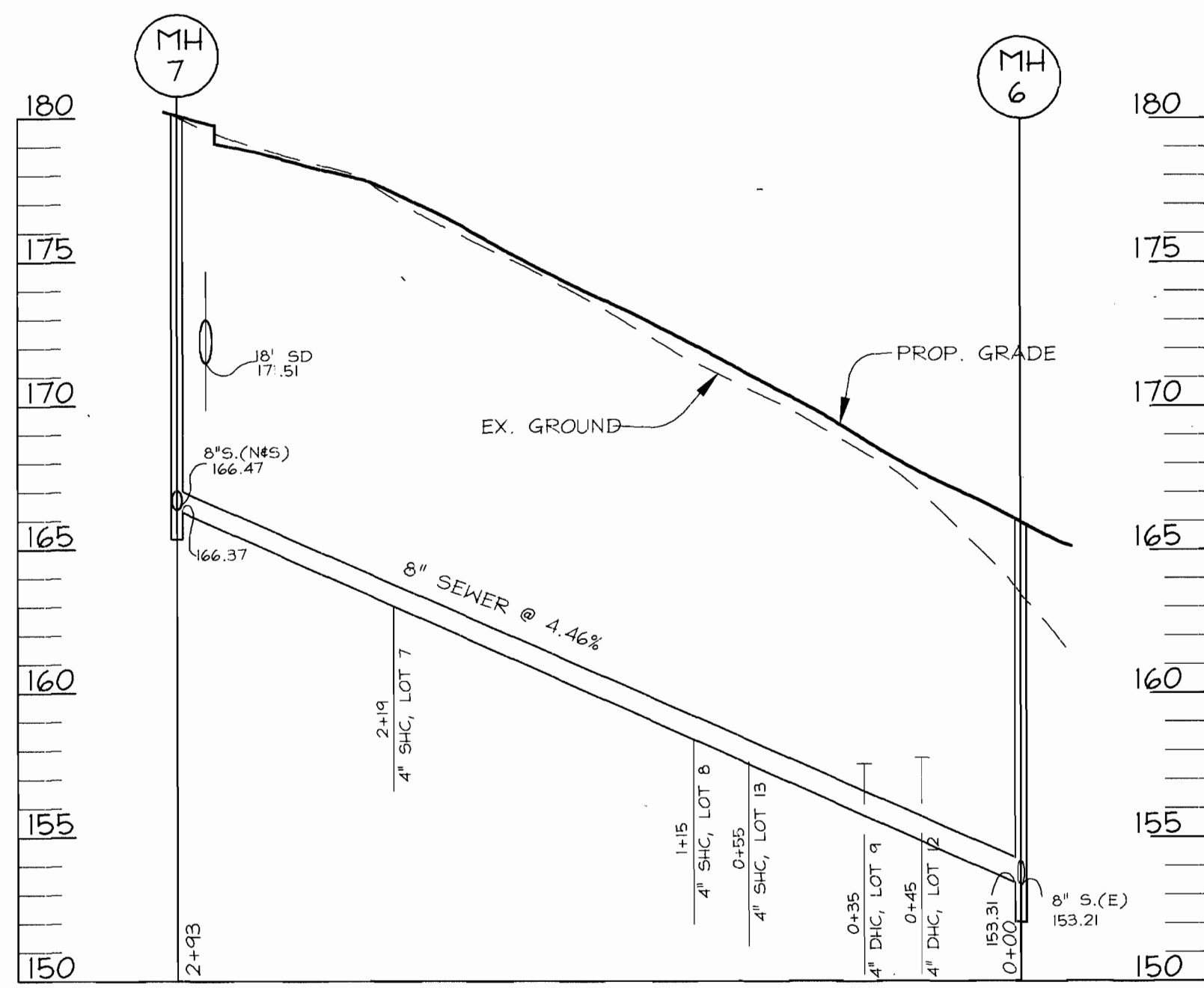


DES:	J.C.O.				
DRN:	J.C.O.				
CHK:	R.H.V.				
DATE:	11/16/99				
BY	NO.	REVISION	DATE	600' SCALE MAP NO. 38	BLOCK NO. 15

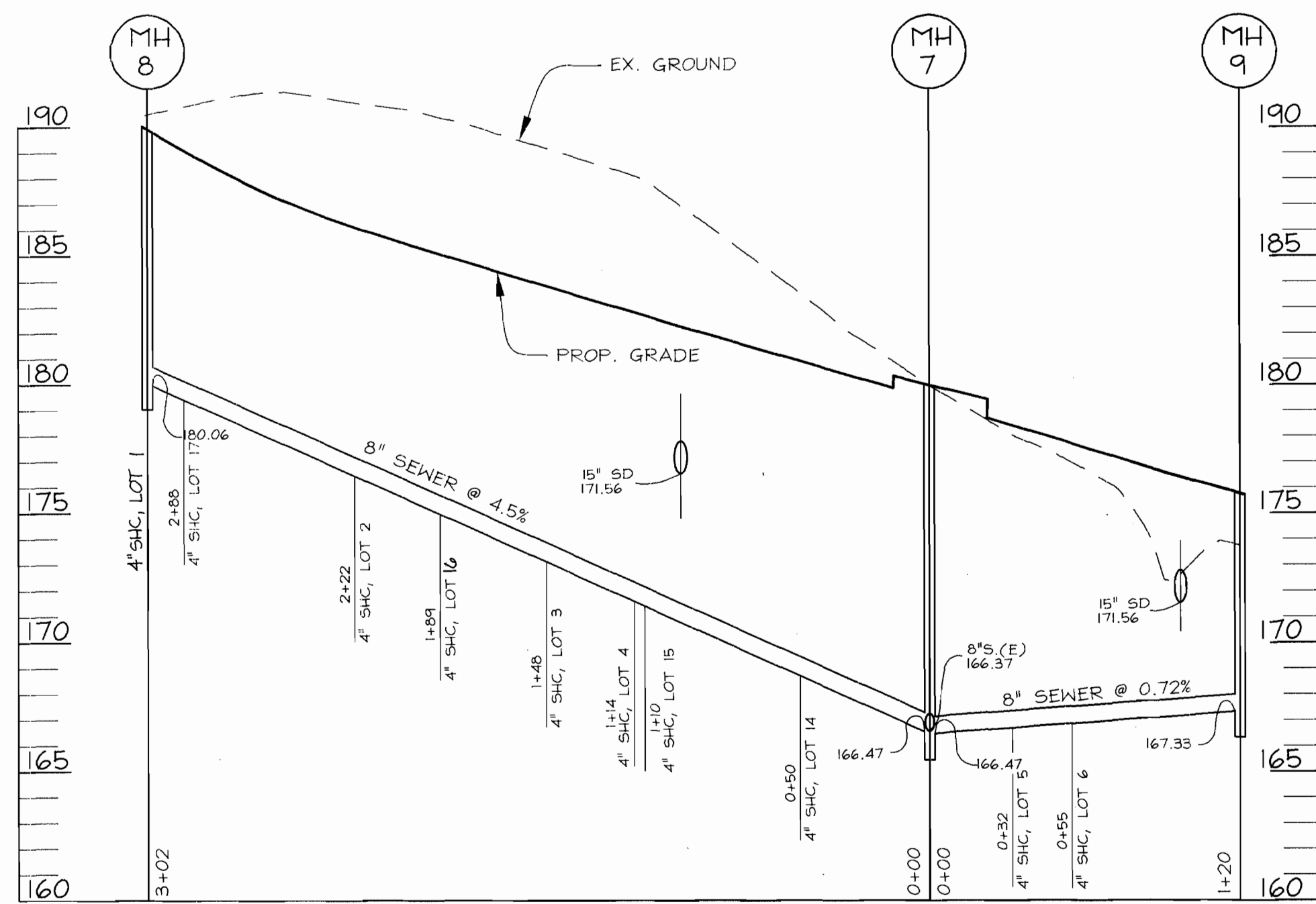
WATER AND SEWER
 PLAN

WHITETAIL WOODS
 LOTS 1 - 17 AND
 OPEN SPACE LOTS 18 - 19
 CONTRACT NO. 14-3754-D
 TAX MAP #38 PARCEL #262 BLOCK #15
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

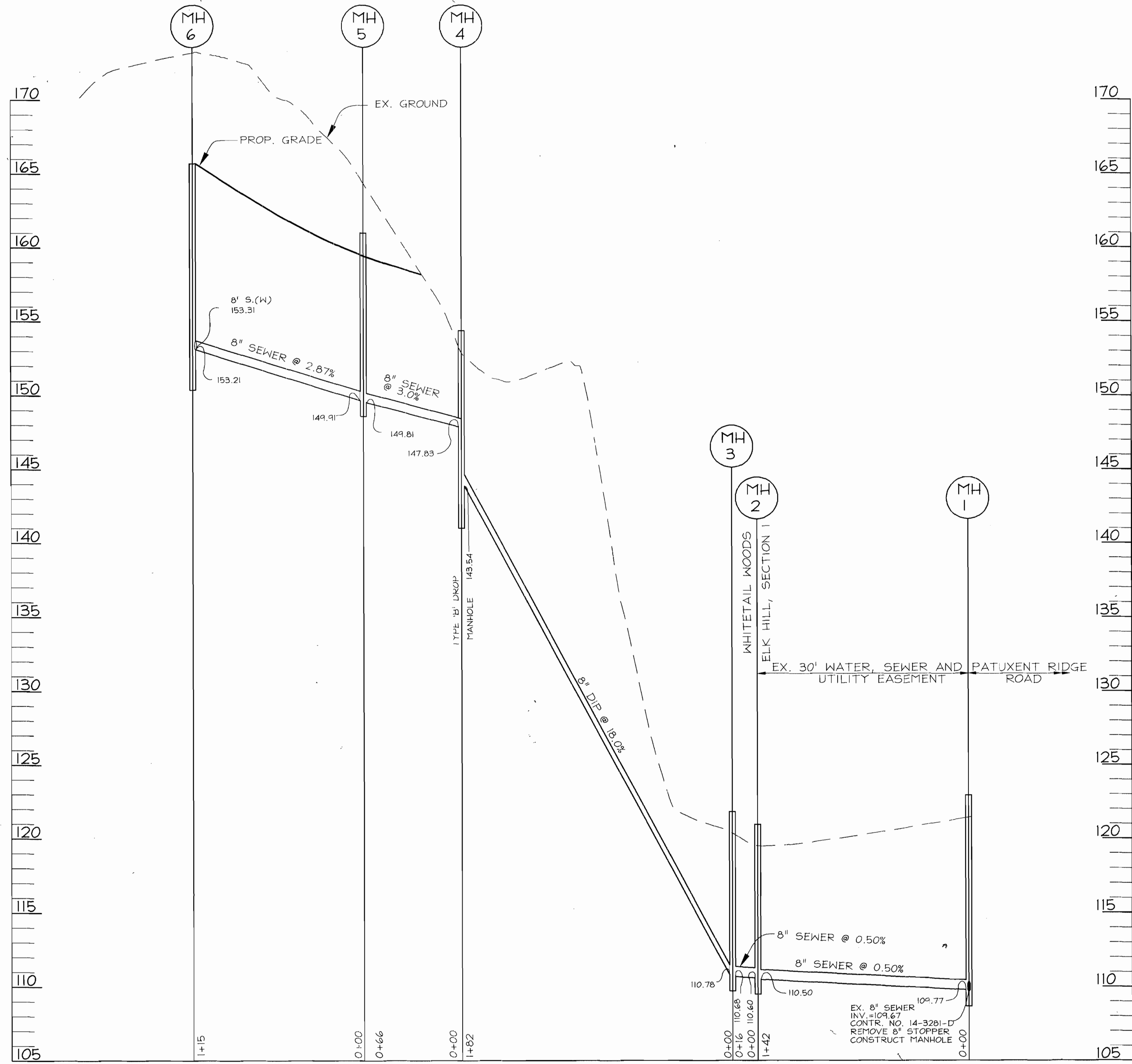
SCALE AS SHOWN
 SHEET 2 OF 4



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



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

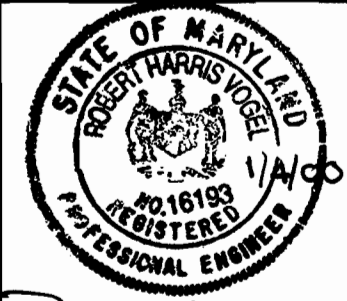


SEWER PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANING & ZONING
HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3466



DES: J.C.O.

DRN: R.L.P.

CHK: R.H.V.

DATE: 11/29/99

BY NO. REVISION DATE

SEWER PROFILES

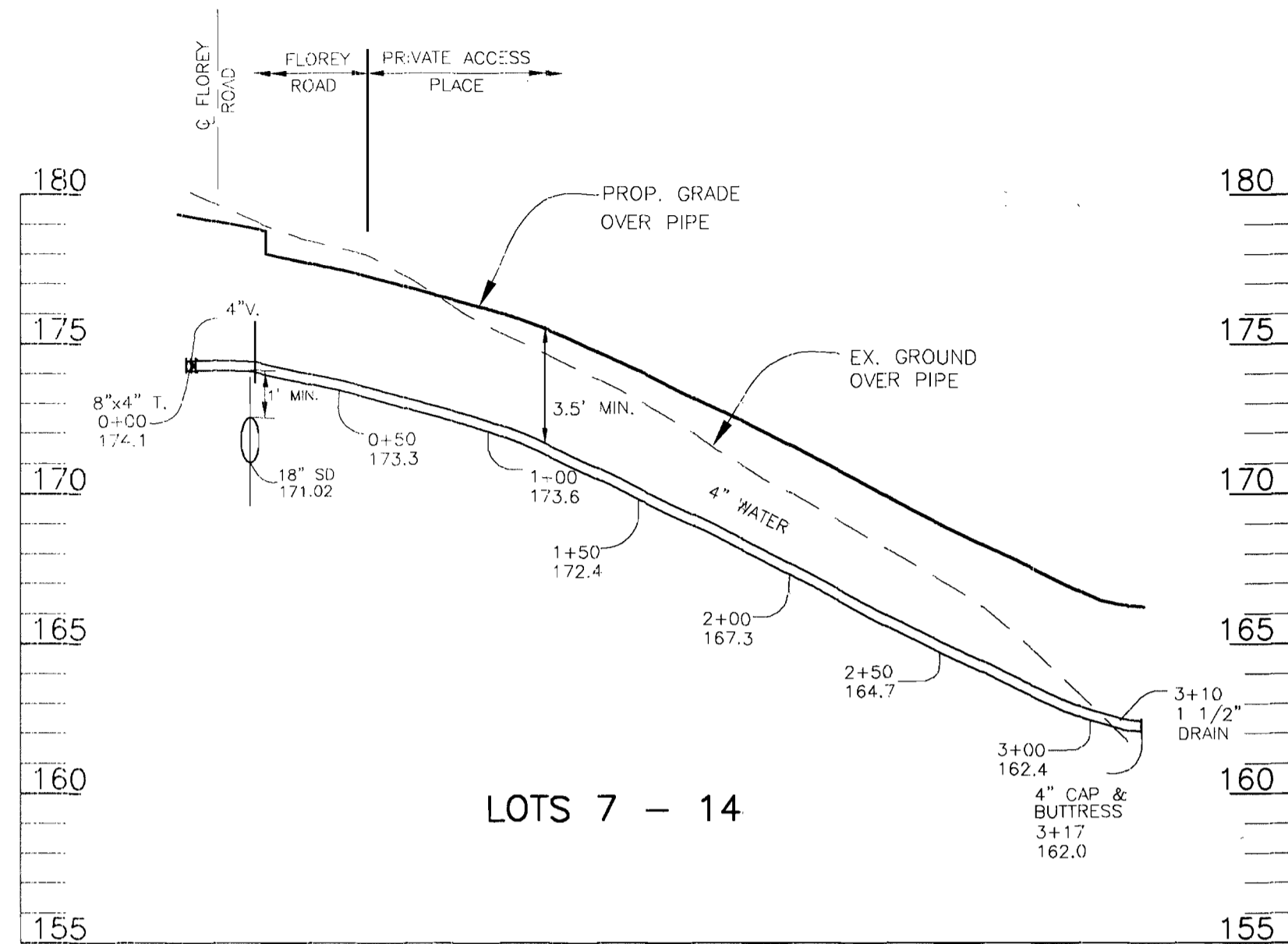
600' SCALE MAP NO. 38 BLOCK NO. 15

WHITETAIL WOODS
LOTS 1 - 17 AND
OPEN SPACE LOTS 18 - 19
CONTRACT NO. 14-3754-D
TAX MAP #38 PARCEL #262 BLOCK #15
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

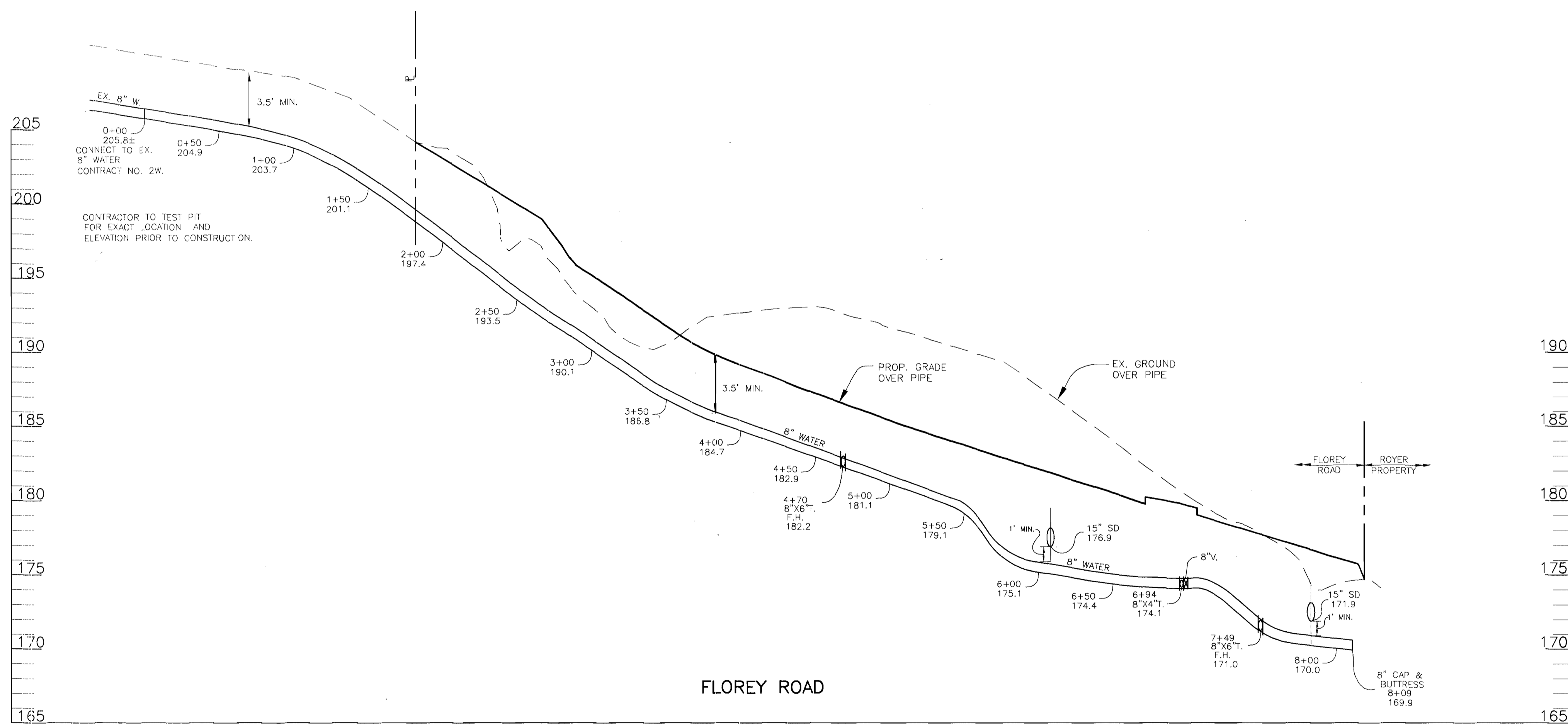
SCALE AS SHOWN
SHEET 3 OF 4

Robert H. Vogler
CHIEF, BUREAU OF UTILITIES
1-10-00 DATE

Robert H. Vogler
CHIEF, DEVELOPMENT ENGINEERING DIVISION
1/14/00 DATE



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

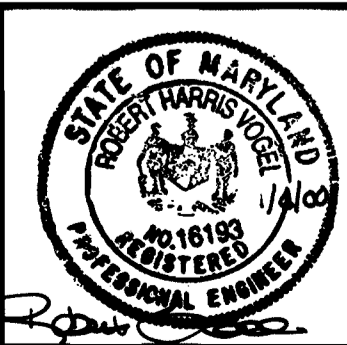


WATER PROFILE
 SCALE: HORIZ.: 1"=50'
 VERT.: 1"=5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert B. ... 1-10-00
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANING & ZONING
 HOWARD COUNTY, MARYLAND
 ... 1/14/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL & ASSOCIATES
 ENGINEERS SURVEYORS PLANNERS
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel 410.461.5828 Fax 410.465.3966




DES:	J.C.O.				
DRN:	J.C.O.				
CHK:	R.H.V.				
DATE:	7/9/99	BY	NO.	REVISION	DATE

WATER PROFILES
 600' SCALE MAP NO. 38 BLOCK NO. 15

WHITETAIL WOODS
 - LOTS 1 - 17 AND
 OPEN SPACE LOTS 18 - 19
 CONTRACT NO. 14-3754-D
 TAX MAP #38 PARCEL #262 BLOCK #15
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 4

GENERAL NOTES

- PART 1
- 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.
 - 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 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. CONTRACTOR TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONTACTS.
 - 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.	565-3803
STATE HIGHWAY ADMINISTRATION	531-1533
B.G.E. CO. CONTRACTOR SERVICES	850-4620
B.G.E. CO. UNDER GROUND DAMAGE CONTROL	787-9068
M&S UTILITY	1-800-257-7777
COLONIA PIPELINE CO.	795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	313-4900
BUREAU OF UTILITIES	
 - 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 18.14(a) OF THE HOWARD COUNTY CODE.

PART 2 - WATER

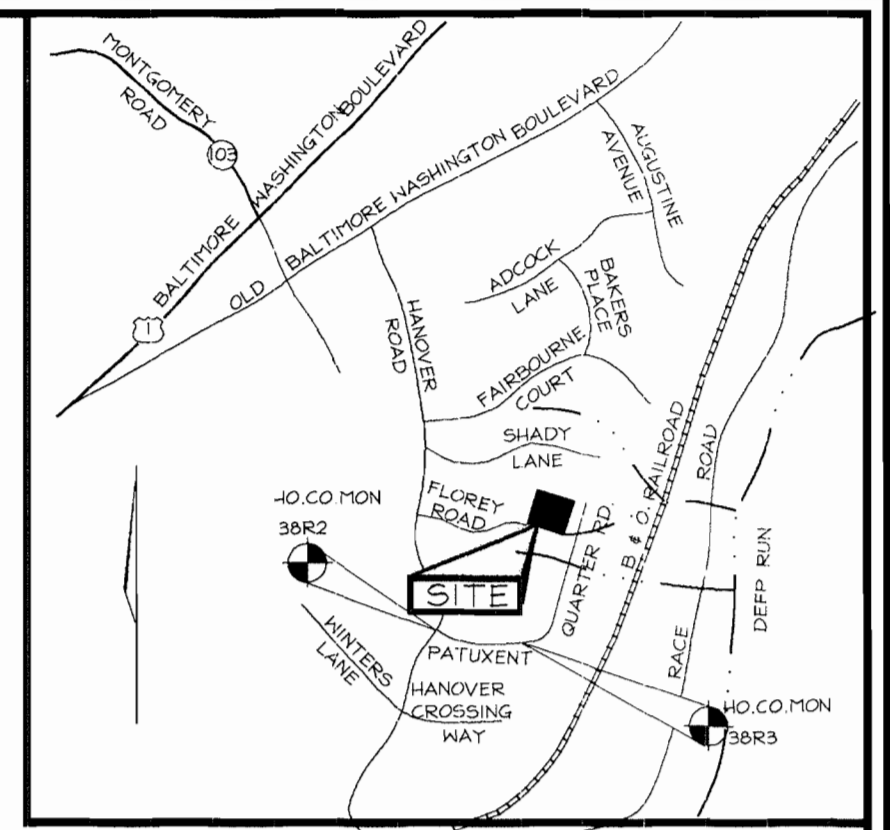
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS 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.

PART 3 - SEWER

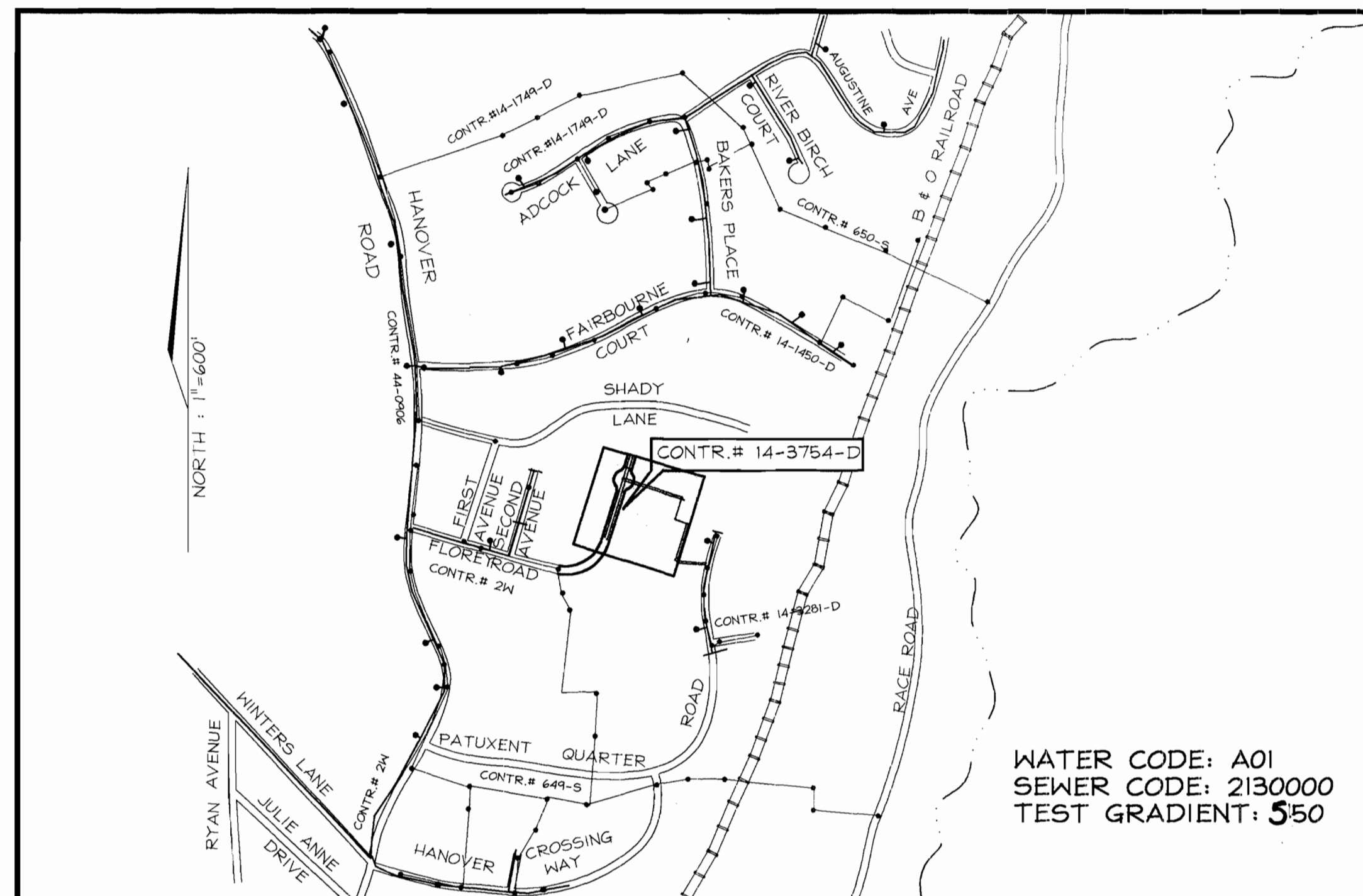
- ALL SEWER MAINS SHALL BE DIP CLASS 52 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G5.52. WHERE WATER-TIGHT 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:	SINGLE FAMILY DETACHED
NO. OF LOTS/PARCELS:	19
NO. OF WATER HOUSE CONNECTIONS:	17
NO. OF SEWER HOUSE CONNECTIONS:	17
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO

WHITETAIL WOODS PUBLIC WATER AND SEWER PLANS HOWARD COUNTY, MARYLAND CONTRACT NO. 14-3754-D



VICINITY MAP
SCALE: 1"=2000'



WATER CODE: A01
SEWER CODE: 2130000
TEST GRADIENT: .550

LOCATION PLAN

SCALE: 1"=600'

QUANTITIES

NAME OF UTILITY CONTRACTOR : GCS
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
1 1/2" WHC	174 LF.	0' Blow Off	SOFT K'	READING TOBE / BELAR RD SUPPLY
1"WHC	100 LF.	384'	SOFT K'	" " / B.R.S.
4"SHC	325 LF.	380'	P.V.C. SDR-35	J.M. MANUF / B.R.S.
MANHOLE	9	0'	PRECAST	ATLANTIC PRECAST
8"SEWER	1,236 LF.	1,202'	P.V.C. SDR-35	J.M. MANUF / B.R.S.
6"VALVE	1	2	OPEN RT. GATE	MUELLER / B.R.S.
8"VALVE	1	2	OPEN RT. GATE	MUELLER / B.R.S.
8"x6" TEE	2	2	M.J. COMPACT	U.S. PIPE & FOUNDRY / B.R.S.
8"x4" TEE	1	1	M.J. COMPACT	U.S. PIPE & FOUNDRY / B.R.S.
FIRE HYDRANT	2	2	CENTURION	MUELLER / B.R.S.
8" CAP & BUTTRESS	1	1	M.J. COMPACT	U.S. PIPE & FOUNDRY / B.R.S.
4" CAP & BUTTRESS	1	1	" "	" "
8" 1/4 H.B.	2	2	" "	" "
8" WATER	809 LF.	809'	TYTON D.I.P. CL-52	U.S. PIPE & FOUNDRY / B.R.S.
4" WATER	317 LF.	324'	" "	" "
1 1/2" DRAIN	1	1	H-15000 G.C.	MUELLER / B.R.S.
6" WATER		14.5'	TYTON D.I.P. CL-52	U.S. PIPE & FOUNDRY / B.R.S.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP 99-160 & F-99-160

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] 1/12/00
SOIL CONSERVATION DISTRICT DATE

[Signature] 1/12/00
U.S. SOIL CONSERVATION DISTRICT SERVICE DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



DES: RLP
DRN: RLP
CHK: RHV

DATE: NOV. 1999

BY NO.	1	AS-BUILT CONDITIONS ADDED TO PLAN	12/16/00
REVISION			

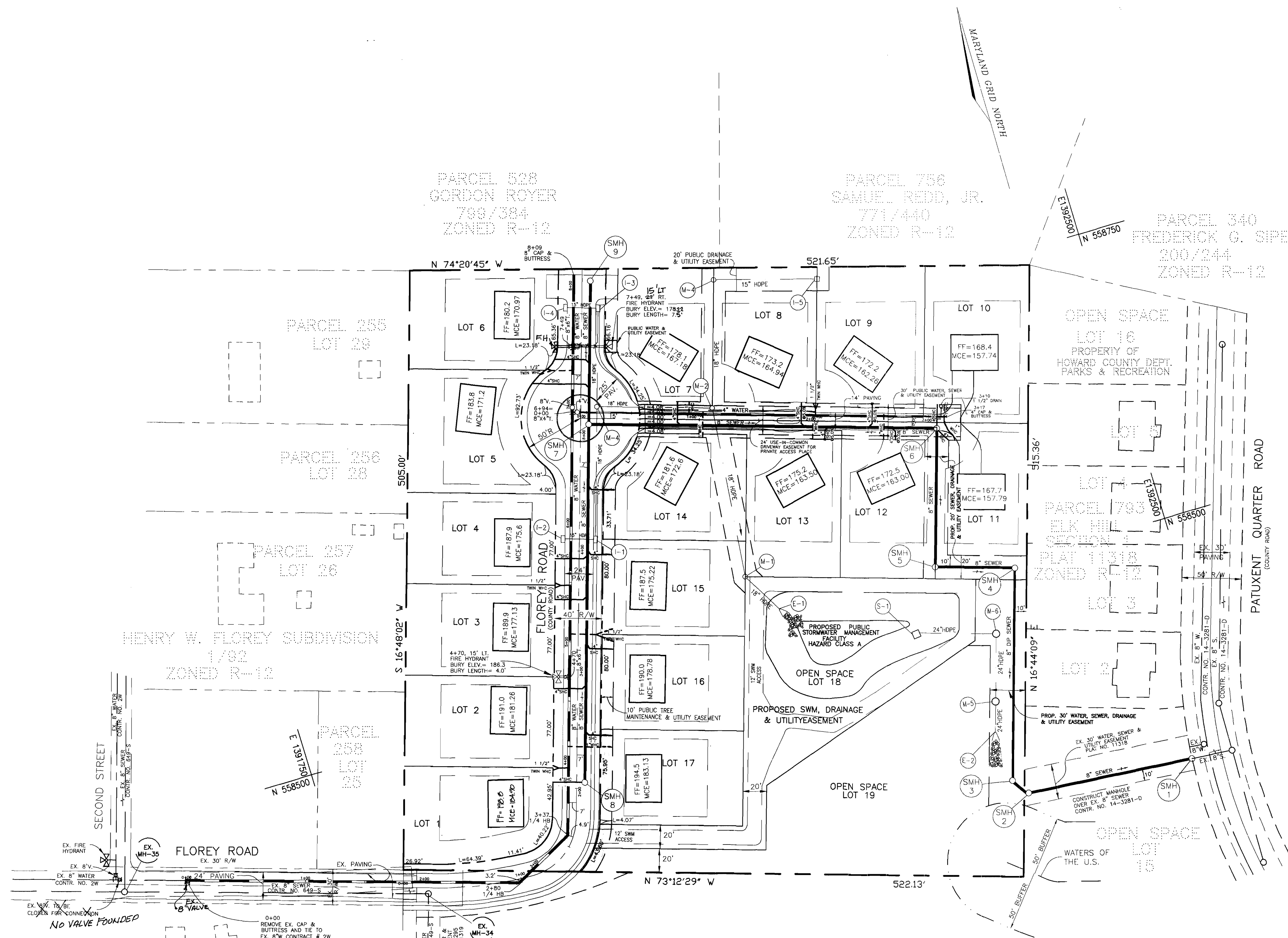
TITLE SHEET

WHITETAIL WOODS
CONTRACT NO. 14-3754-D

TAX MAP #38 PARCELS #263 BLOCK # 15
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 1 OF 4



WATER AND SEWER ASBUILT MEASUREMENTS

FROM	TO	LOT #	DIST (ft)	REMARKS
SH#0	W.H.C.	11	20.5'	
"	S.H.C.	11	16.0'	
"	W.H.C.	12	45.0'	
S.H.C. 9	W.H.C.	12	0.7'	
W.H.C. 9	S.H.C.	13	50.0'	
S.H.C. 9	W.H.C.	13	8.0'	
W.H.C. 9	W.H.C.	0	30.7'	
"	"	8	30.5'	
"	S.H.C.	8	33.5'	
S.H.C. 10	W.H.C.	8	8.5'	
W.H.C. 10	W.H.C.	0	6.0'	
W.H.C. 10	S.H.C.	0	45.3'	
S.H.C. 10	S.H.C.	10	53.0'	
S.H.C. 10	1/2" DRAIN		7.0'	
1/2" DRAIN	W.H.C. 10	10	3.3'	
SDH# 2	W.H.C. 10		0.7'	
W.H.C. 10	SDH# 2		22.0'	
SDH# 2	W.H.C. 10	14	27.3'	
W.H.C. 10	W.H.C.	7	34.5'	
"	S.H.C. 10		30.3'	
F.H. -	G.V.		8.0'	
F.H. -	SMH 0		57.5'	
F.H. -	SDH# 4		54.8'	
SDH# 4	SMH 0		106.0'	
SDH# 4	S.H.C. 10		15.5'	
S.H.C. 10	S.H.C. 10		61.0'	
"	W.H.C.	15	42.0'	
"	W.H.C.	15	41.0'	
"	S.H.C.	15	43.0'	
"	S.H.C.	15	44.0'	
"	SDH# 4		21.0'	
"	4" VALVE		3.5'	
4" VALVE	SMH 7		15.0'	
SMH 7	S.H.C. 10	14	62.0'	
S.H.C. 10	S.H.C. 10	15	52.0'	
"	W.H.C. 10	4	18.5'	
W.H.C. 10	W.H.C. 10	3	7.3'	
W.H.C. 10	S.H.C. 10	3	10.0'	
W.H.C. 10	W.H.C. 10	15	63.0'	
W.H.C. 10	W.H.C. 10	15	60.3'	
S.H.C. 10	G.F.H. VAL.		64.0'	
G.F.H. VAL.	W.H.C. 10	15	57.5'	
"	W.H.C. 10	10	48.5'	
"	S.H.C. 10	10	46.0'	
F.H.	G.V.		85.0'	
F.H.	S.H.C. 10		12.0'	
S.H.C. 10	G.F.H. VAL.		16.6'	
F.H. G.V.	SMH 8		89.0'	
SMH 8	W.H.C. 10	3	27.5'	
"	W.H.C. 10	3	25.5'	
"	S.H.C. 10	3	26.5'	
W.H.C. 10	W.H.C. 10	1	6.3'	
W.H.C. 10	S.H.C. 10	1	8.0'	
SMH 8	S.H.C. 10	17	45.0'	
"	W.H.C. 10	17	36.5'	
S.H.C. 10	S.H.C. 10	15	54.0'	
S.H.C. 10	W.H.C. 10	15	60.0'	
W.H.C. 10	W.H.C. 10	16	13.5'	
W.H.C. 10	S.H.C. 10	16	4.8'	
SDH# 4	S.H.C. 10	14	73.5'	
SDH# 4	S.H.C. 10	6	51.5'	

ELK HILL SECTION 1
 PLAT 11319
 OPEN SPACE
 LOT 15
 ZONED R-12
 PROPERTY OF
 HOWARD COUNTY DEPT.
 PARKS & RECREATION

PLAN
 SCALE: 1" = 50'

SEWER CONNECTION TABULATION

MANHOLE NO.	LOCATION	TOP ELEV.
1	N 558299 E 1392464	123.0±
2	N 558311 E 1392324	121.3±
3	N 558322 E 1392313	121.7±
4	N 558496 E 1392367	153.5±
5	N 558513 E 1392304	161.0±
6	Q STA. 3+00.0, 5' RT. PRIVATE ACCESS PLACE	166.04
7	Q STA. 5+07.3, 7' RT. FLOREORY ROAD	179.57
8	Q STA. 2+05.3, 7' RT. FLOREORY ROAD	189.89
9	Q STA. 6+28.2, 7' RT. FLOREORY ROAD	175.94

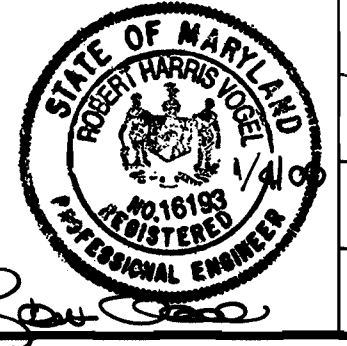
SEWER CONNECTION TABULATION

LOT NO.	ELEV. @ MAIN ELEV.	LOT/R.O.W.	M.C.E.
1	180.40	180.94	184.90
2	177.46	178.02	181.26
3	173.13	177.13	177.13
4	171.60	172.16	175.60
5	166.70	166.70	171.20
6	166.87	167.47	170.97
7	163.08	163.48	167.18
8	158.44	159.44	164.94
9	155.76	156.76	162.26
10	153.65	154.05	157.74
11	153.65	155.89	157.79
12	157.00	157.50	163.00
13	157.50	158.00	163.50
14	166.72	168.98	172.60
15	171.42	171.68	175.22
16	174.98	175.24	178.78
17	179.43	179.69	183.13

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert M. Bainger 1-10-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 1/14/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

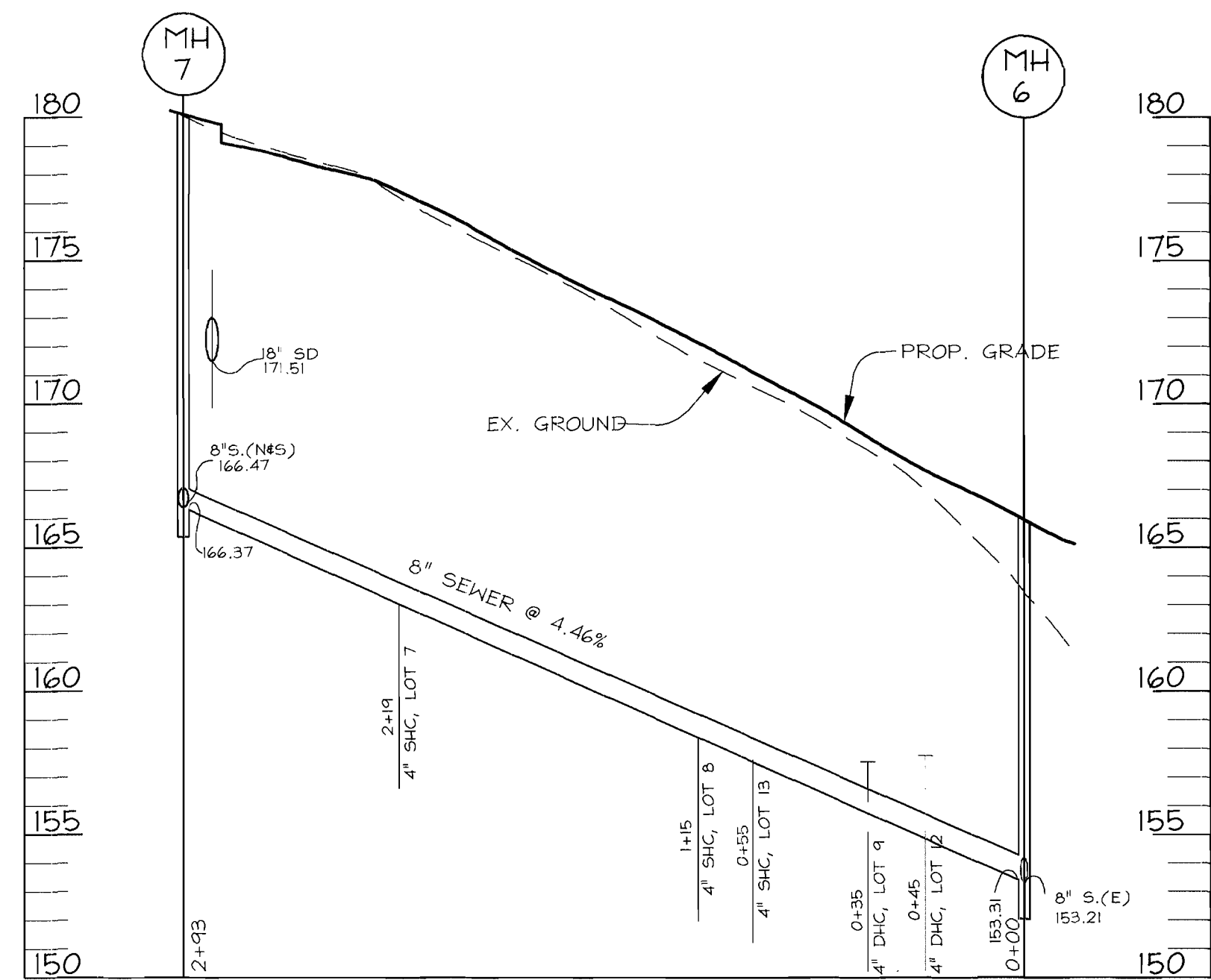
VOGEL & ASSOCIATES
 ENGINEERS SURVEYORS PLANNERS
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel 410.461.5828 Fax 410.465.3966



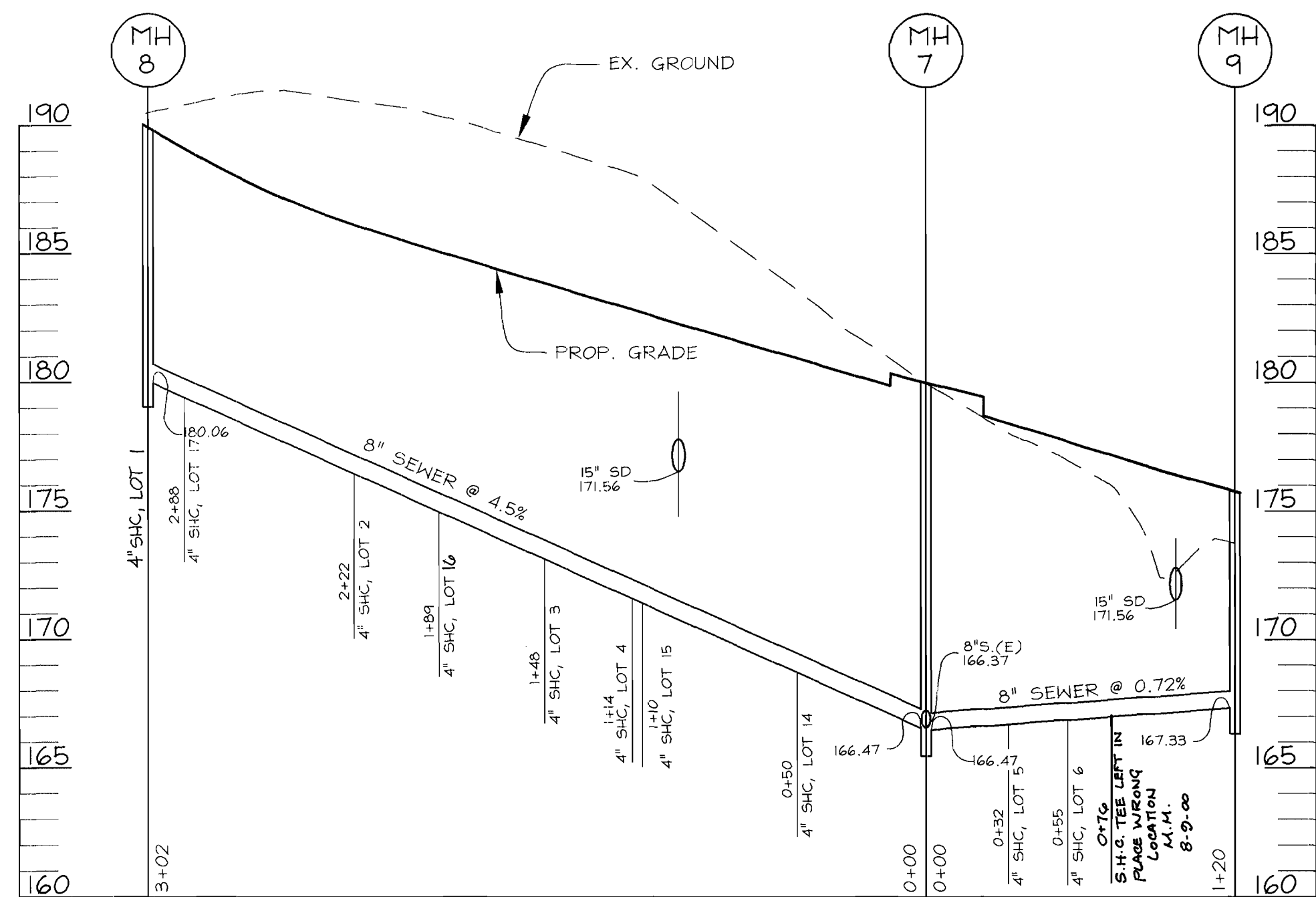
DES:	J.C.O.				
DRN:	J.C.O.				
CHK:	R.H.V.				
DATE:	11/16/99				
K.O.I.	1	ASBUILT CONDITIONS ADDED TO PLAN		10/14/00	
BY:	NO.	REVISION			

WATER AND SEWER
 PLAN
 600' SCALE MAP NO. 38 BLOCK NO. 15

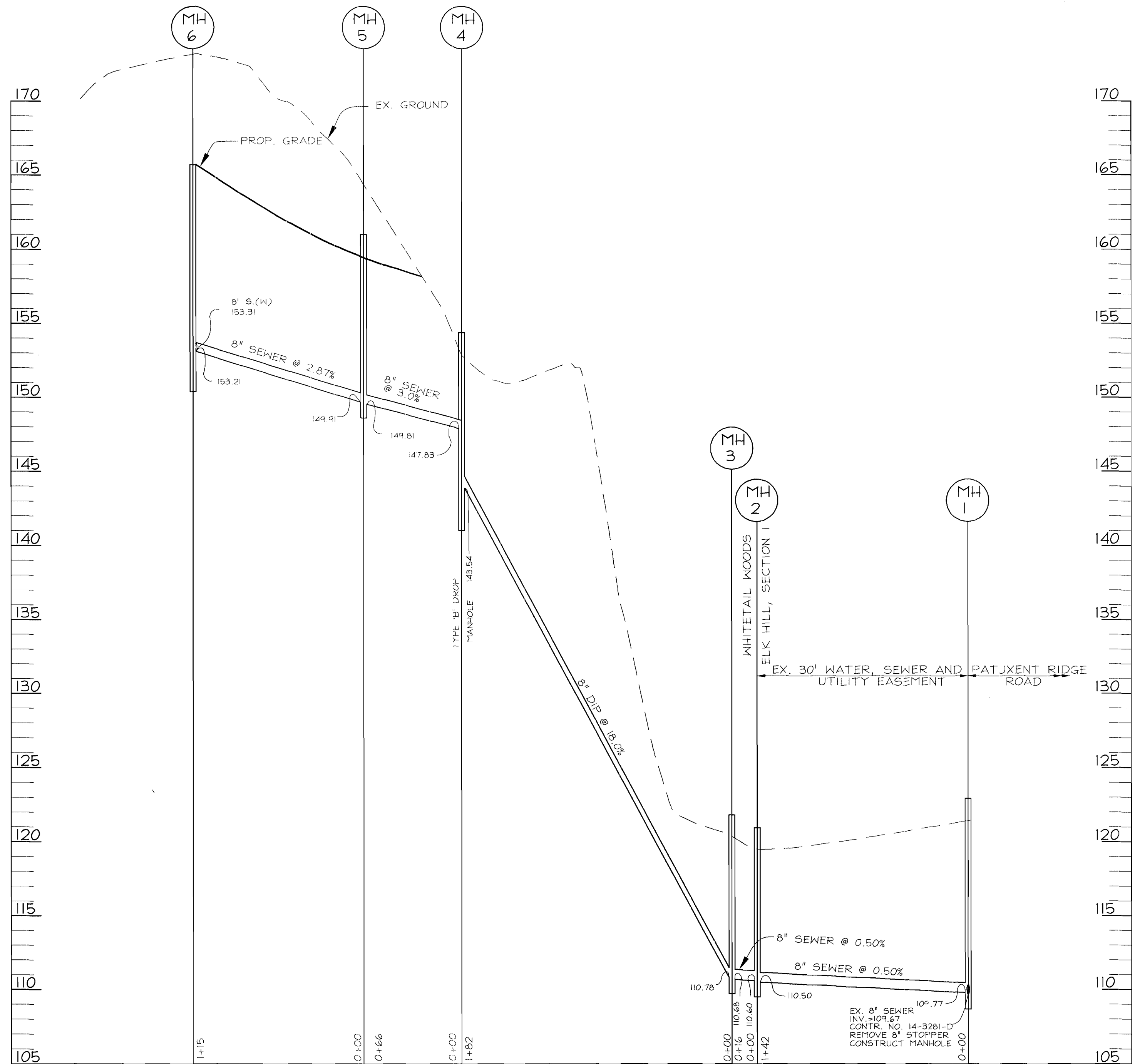
WHITETAIL WOODS
 LOTS 1 - 17 AND
 OPEN SPACE LOTS 18 - 19
 CONTRACT NO. 14-3754-D
 TAX MAP #38 PARCEL #262 BLOCK #15
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 2 OF 4



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



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

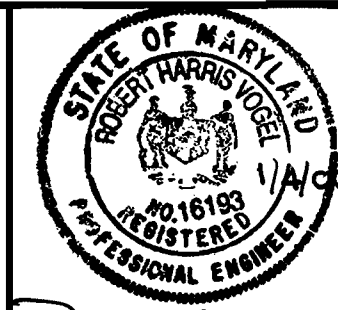


SEWER PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANING & ZONING
HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



DES:	J.C.O.			
DRN:	R.L.P.			
CHK:	R.H.V.			
DATE:	1/29/99			
K.C.I.	1	AS-BUILT CONDITIONS ADDED TO PLAN	12/12/00	
BY:	NO.	REVISION	DATE	

SEWER PROFILES

WHITETAIL WOODS
LOTS 1 - 17 AND
OPEN SPACE LOTS 18 - 19
CONTRACT NO. 14-3754-D

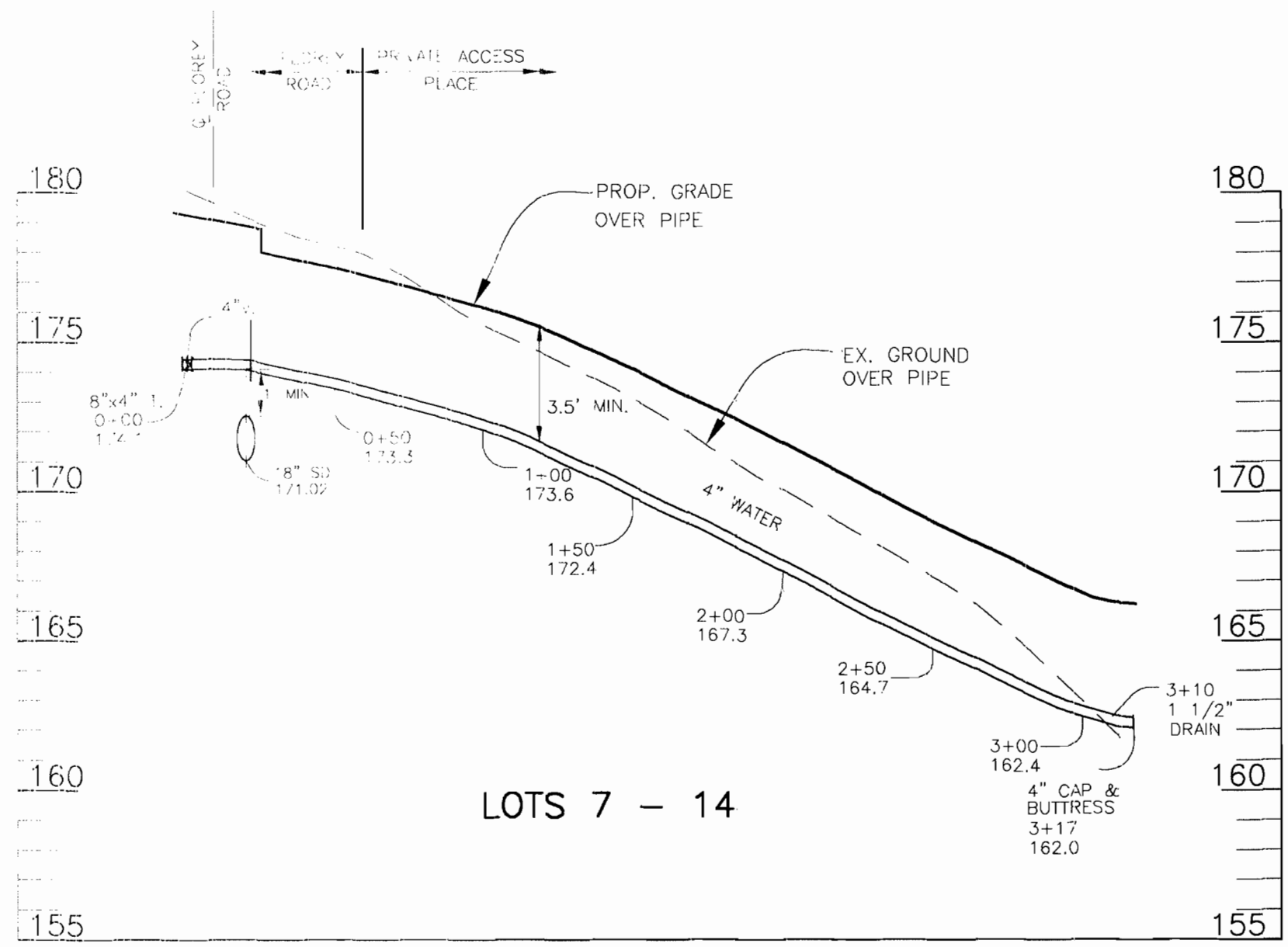
TAX MAP #38 PARCEL #262 BLOCK #15
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

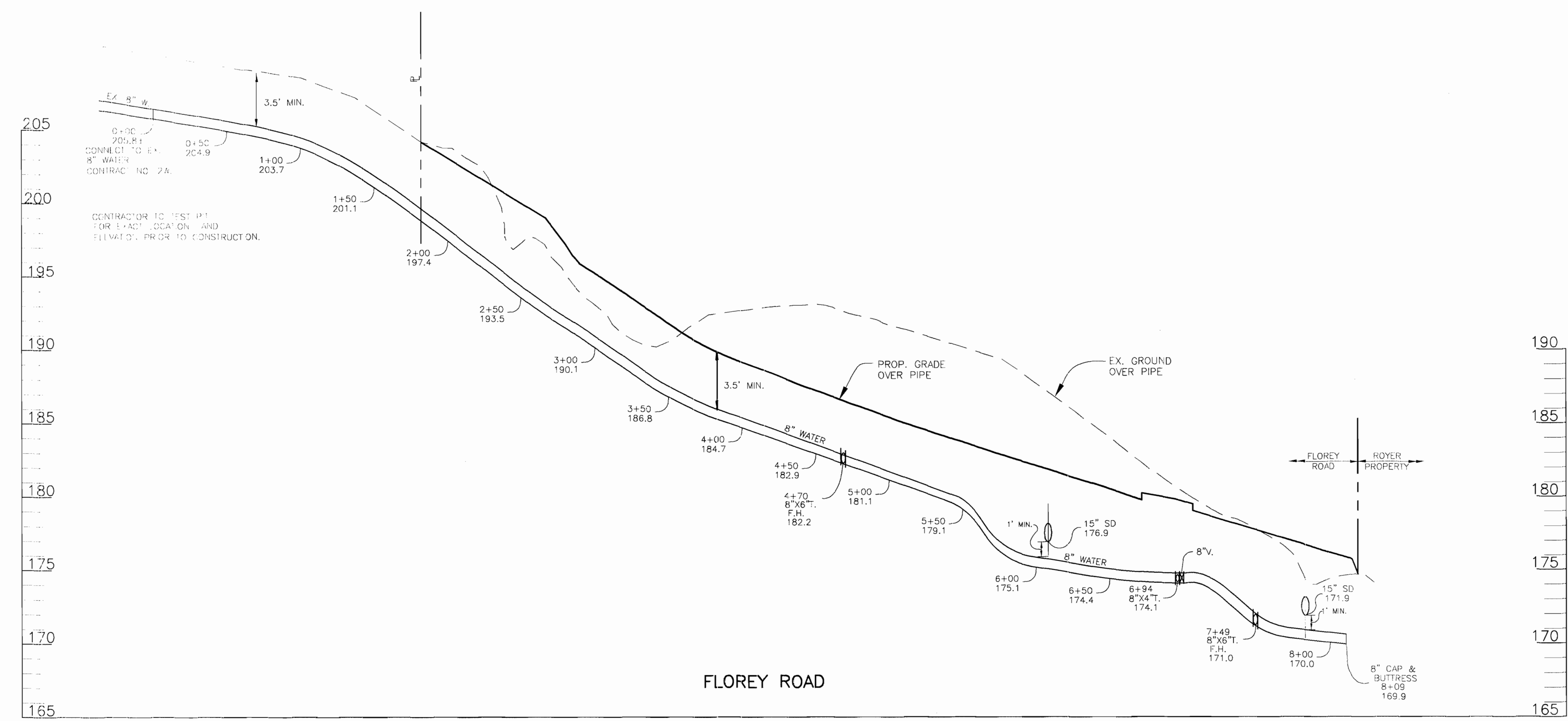
SHEET
3 OF 4

Robert Berman 1-10-00
CHIEF, BUREAU OF UTILITIES DATE

Robert Berman 1/14/00
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



WATER PROFILE
 SCALE: HORI.: 1"=50'
 VERT.: 1"=5'



WATER PROFILE
 SCALE: HORI.: 1"=50'
 VERT.: 1"=5'

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert Beames 1-10-00
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 1/14/00
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL & ASSOCIATES
 ENGINEERS-SURVEYORS-PLANNERS
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel 410.461.5828 Fax 410.465.3966



DES:	J.C.O.			
DRN:	J.C.O.			
CHK:	R.H.V.			
DATE:	7/9/99			
BY	NO.	REVISION	DATE	

WATER PROFILES
 600' SCALE MAP NO. 38 BLOCK NO. 15

WHITETAIL WOODS
 LOTS 1 - 17 AND
 OPEN SPACE LOTS 18 - 19
 CONTRACT NO. 14-3754-D
 TAX MAP #38 PARCEL #262 BLOCK #15
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 4 OF 4