

**GENERAL NOTES**

**PART I**

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. 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 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, 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 LOCATIONS OF THE TEST PITS. 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 OPERATIONS AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDERGROUND DAMAGE CONTROL)	410-787-9088
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0037/410-224-9210
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS 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 SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

**PART III SEWER**

- ALL SEWER MAINS SHALL BE D.I.P. 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" WALL ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL GS.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	56
NO. OF WATER HOUSE CONNECTIONS:	52
NO. OF SEWER HOUSE CONNECTIONS:	52
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	ROCKBURN PUMPING STATION

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-04-74 FOR STREAM CROSSING DETAILS REFERENCE F-04-74, SHEET 10 OF 17 (MDE #04-N-0197/200463350)

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

*John R. ...*  
SOIL CONSERVATION DISTRICT

9/15/04 DATE

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

*Jim M. ...*  
S.O. SOIL CONSERVATION DISTRICT

9/15/04 DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*Rita B. ...* 9-15-04 DATE  
CHIEF, BUREAU OF UTILITIES

*...* 9/20/04 DATE  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

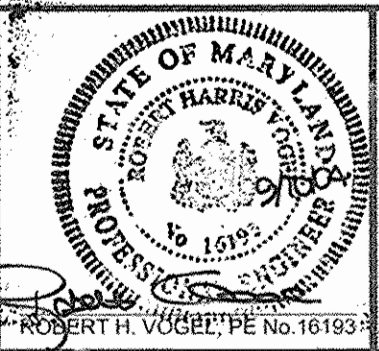
**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961

DES:	CMH/RJ
DRN:	CMH/RJ
CHK:	RHV
DATE:	SEPT. 2004
BY:	NO.
REVISION:	
DATE:	

**AS BUILT**  
DATE: MAY 2005

TITLE SHEET

600' SCALE MAP NO. 31  
BLOCK NO. 21



**DENNIS PRESERVE**  
LOTS 1-58  
CONTRACT NO. 14-4078-D

TAX MAP 31 BLOCK 21  
1ST ELECTION DISTRICT  
REF.: F-04-74

PARCEL '226'  
HOWARD COUNTY, MARYLAND

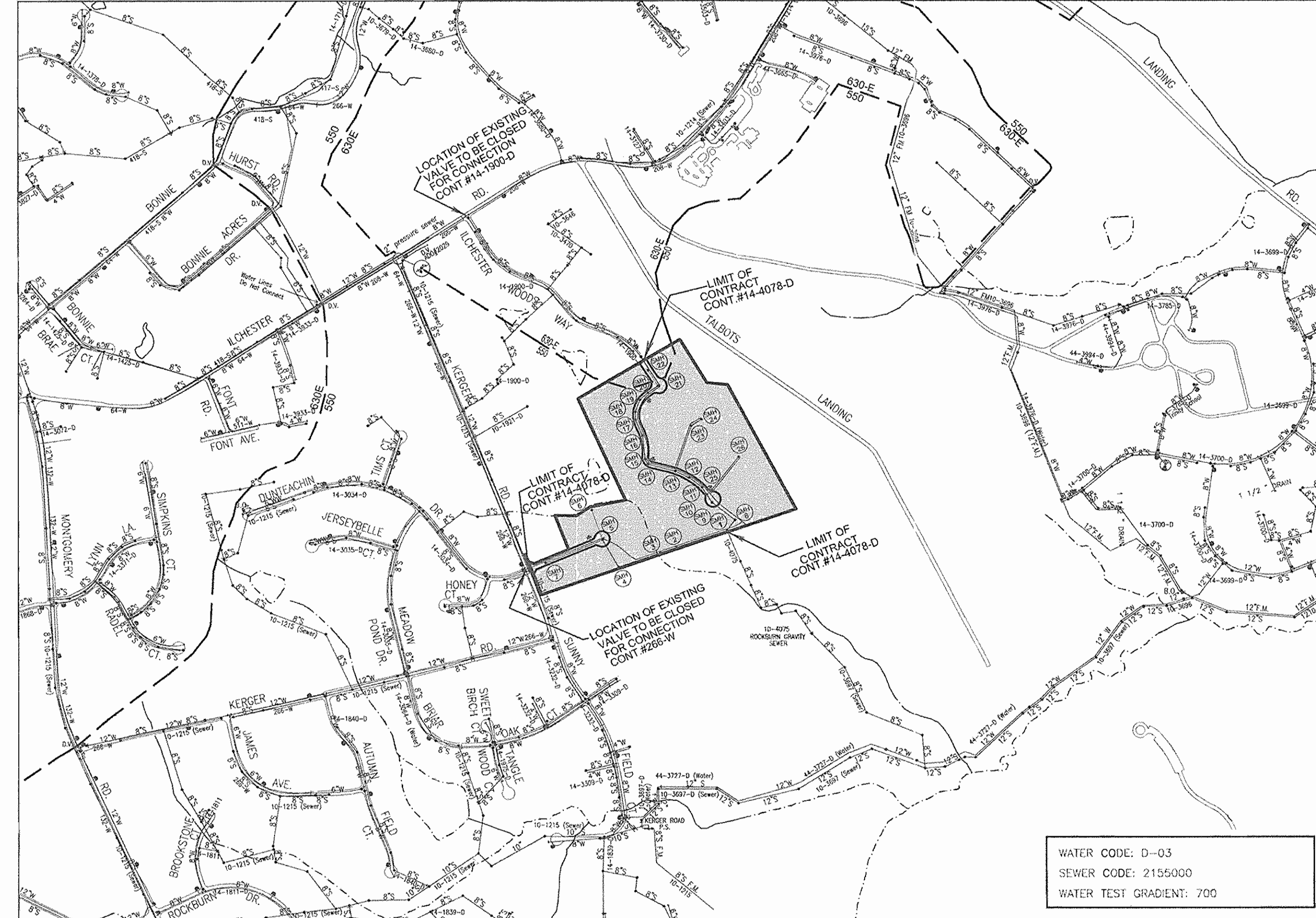
SCALE AS SHOWN  
SHEET 1 OF 7

# DENNIS PRESERVE

## LOTS 1-56

### HOWARD COUNTY, MARYLAND

#### CONTRACT NO. 14-4078-D

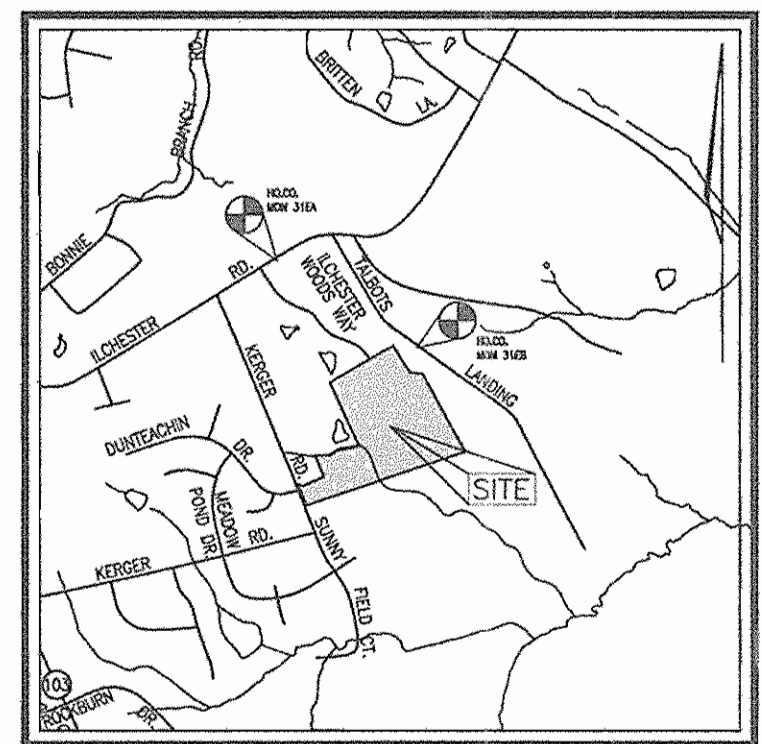


LOCATION PLAN  
SCALE: 1"=600'

WATER CODE: D-03  
SEWER CODE: 2155000  
WATER TEST GRADIENT: 700

BENCHMARK NO. 1: COUNTY CONTROL #31EA  
N 569641.123 E 1374815.935  
ELEV. = 469.603

BENCHMARK NO. 2: COUNTY CONTROL #31EB  
N 568730.984 E 1376273.491  
ELEV. = 453.396



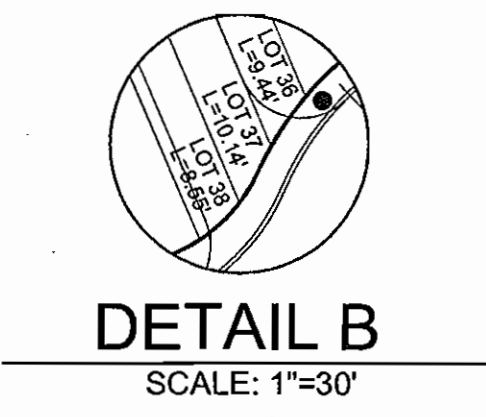
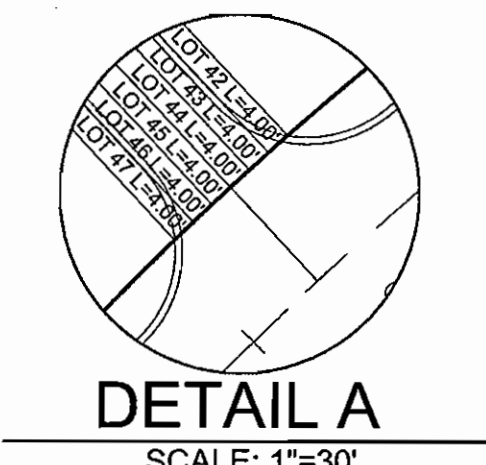
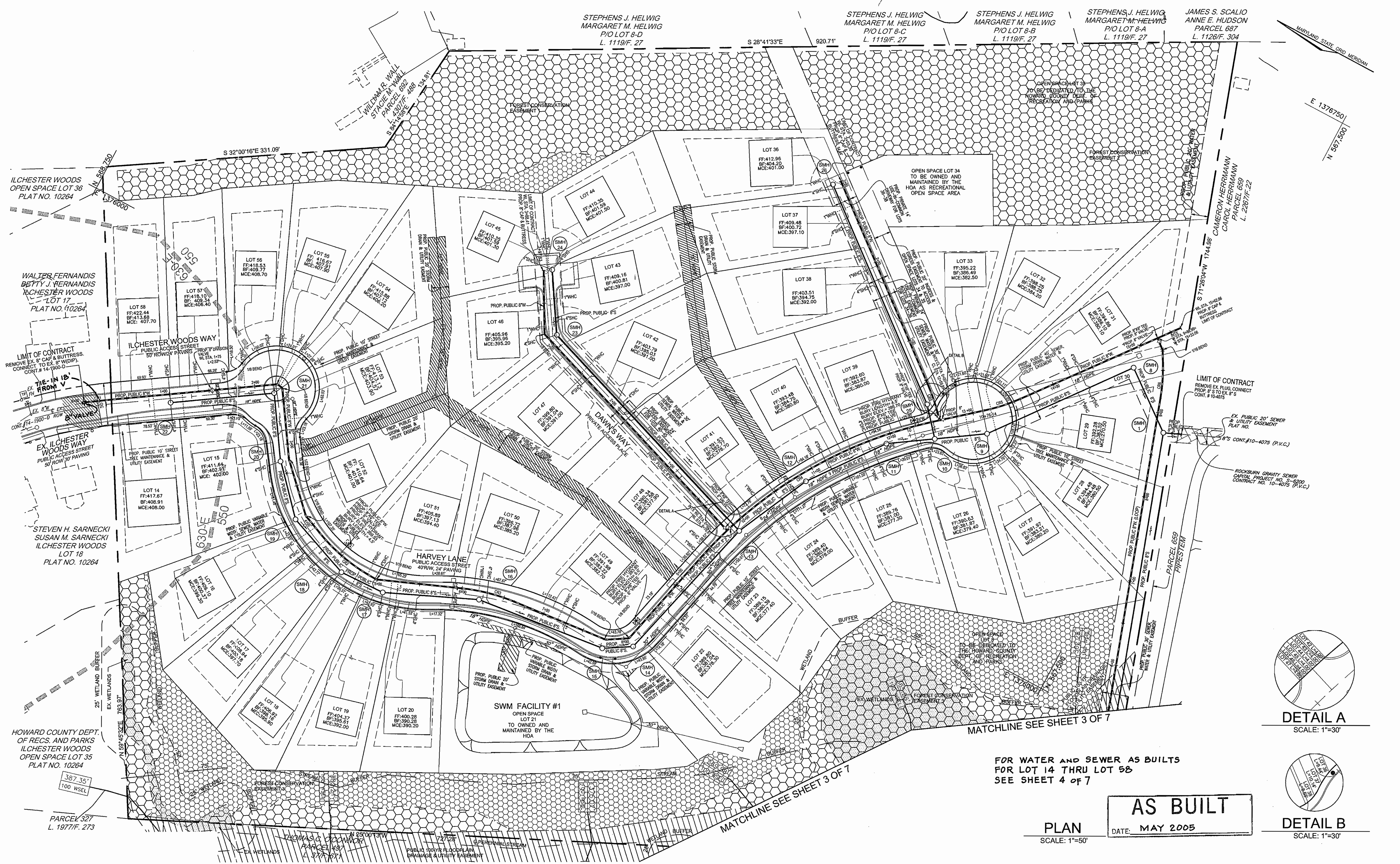
VICINITY MAP  
SCALE: 1"=2000'

QUANTITIES				
NAME OF UTILITY CONTRACTOR: <b>CONSOLIDATED CONSTRUCTION SERVICES</b>				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: <b>MAY 2005</b>				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" W. (DIP)	3798 LF	3781 L.F.	DIP CL.52	GRIFFIN PIPE
6" W. (DIP)	35 LF	35 L.F.	DIP CL.52	GRIFFIN PIPE
FIRE HYDRANT	4 EACH	4 EACH	2"=4" S	MUELLER CO./BELAIR RD SUPPLY
6" VALVE	4 EACH	4 EACH	M.J.	MUELLER CO./B.R.S.
8" x 6" TEE	4 EACH	4 EACH	M.J. FHTEE	U.S. PIPE/B.R.S.
8" VALVE	8 EACH	8 EACH	M.J.	MUELLER CO./B.R.S.
8" x 8" TEE	4 EACH	4 EACH	M.J. TEE	U.S. PIPE/B.R.S.
8" CAP & BUTTRESS	4 EACH	4 EACH	M.J. TEE	U.S. PIPE/B.R.S.
8" S (PVC)	3769 LF	3701 L.F.	PVC SDR35	J.M. MFG/BELAIR RD. SUPPLY
MANHOLES	26 EACH	26 EACH	3 WATERTIGHT 23 STANDARD	NEENAH FOUNDRY/B.R.S.
8" DIVISION VALVE	1 EACH	1 EACH	RSOR	MUELLER CO./B.R.S.
8" x 12" TAPPING SLEEVE	1 EACH	1 EACH	-	J.C.M./B.R.S.

DEVELOPER: ELLICOTT CITY LAND HOLDING, LLC  
8000 MAIN STREET  
ELLICOTT CITY, MARYLAND 21043  
ATTN. MR. DONALD REUWER  
410-480-5105

OWNER: DENNIS PRESERVE, LLC  
ELLICOTT CITY LAND HOLDING, LLC, SOLE MEMBER  
8000 MAIN STREET  
ELLICOTT CITY, MARYLAND 21043  
410-480-5105





FOR WATER AND SEWER AS BUILTS  
FOR LOT 14 THRU LOT 58  
SEE SHEET 4 OF 7

**AS BUILT**  
DATE: MAY 2005

PLAN  
SCALE: 1"=50'

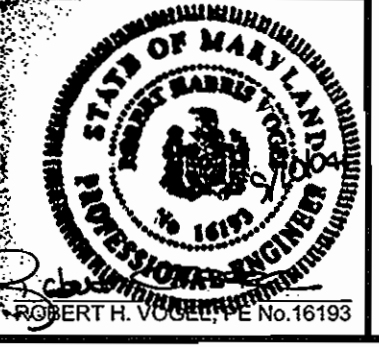
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
9-15-04  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
9/20/04  
DATE

**ROBERT H. VOGEL ENGINEERING, INC.**  
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8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8981

DES: CMH/RJ	BY	NO.	REVISION	DATE
DRN: CMH/RJ				
CHK: RHV				
DATE: SEPT. 2004				

**WATER AND SEWER PLAN**  
600' SCALE MAP NO. 31  
BLOCK NO. 21



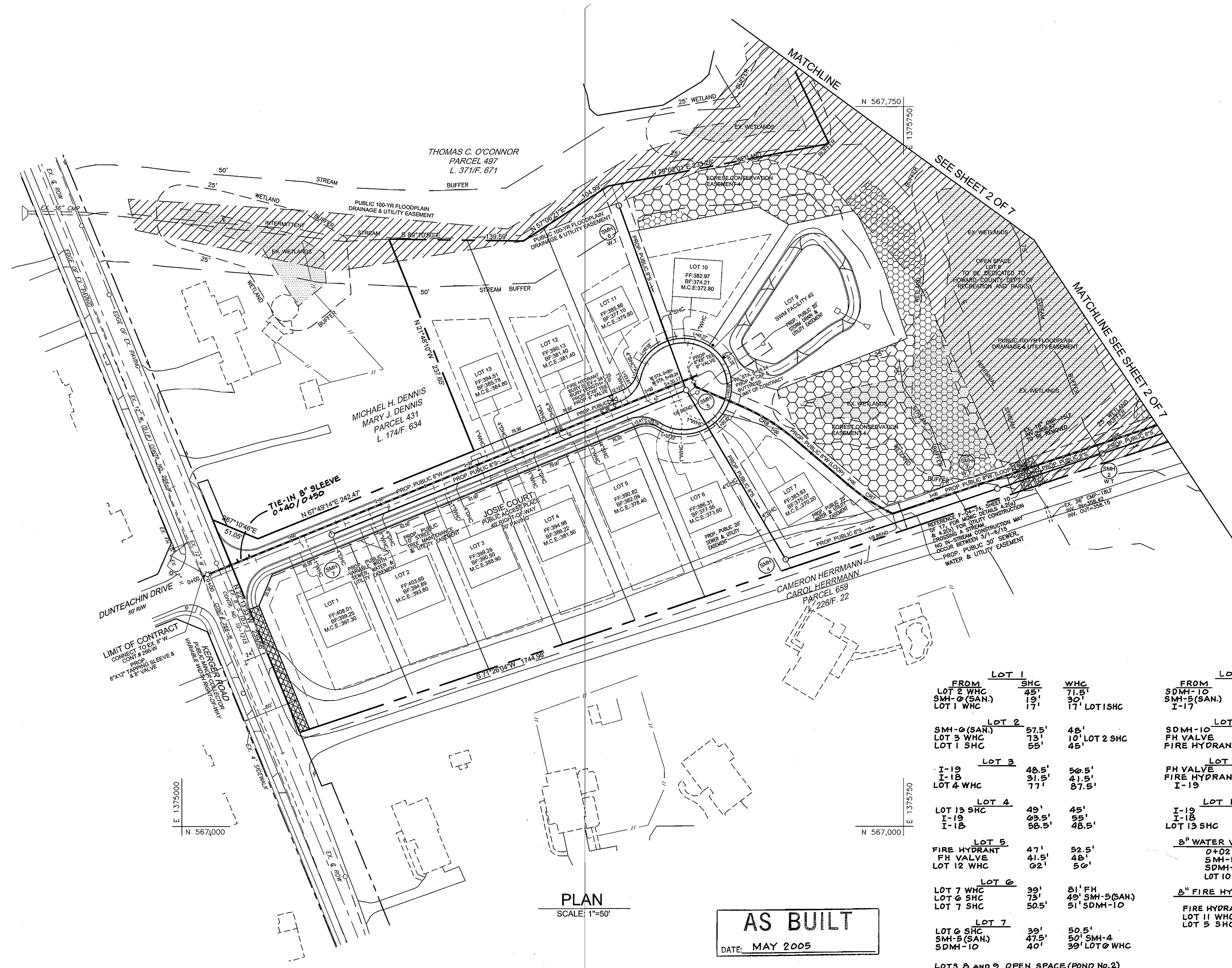
TAX MAP 31 BLOCK 21  
1ST ELECTION DISTRICT

**DENNIS PRESERVE**  
LOTS 1-58  
CONTRACT NO. 14-4078-D  
PARCEL '226'  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 7



Maryland State Grid Meridian



PLAN  
SCALE: 1"=50'

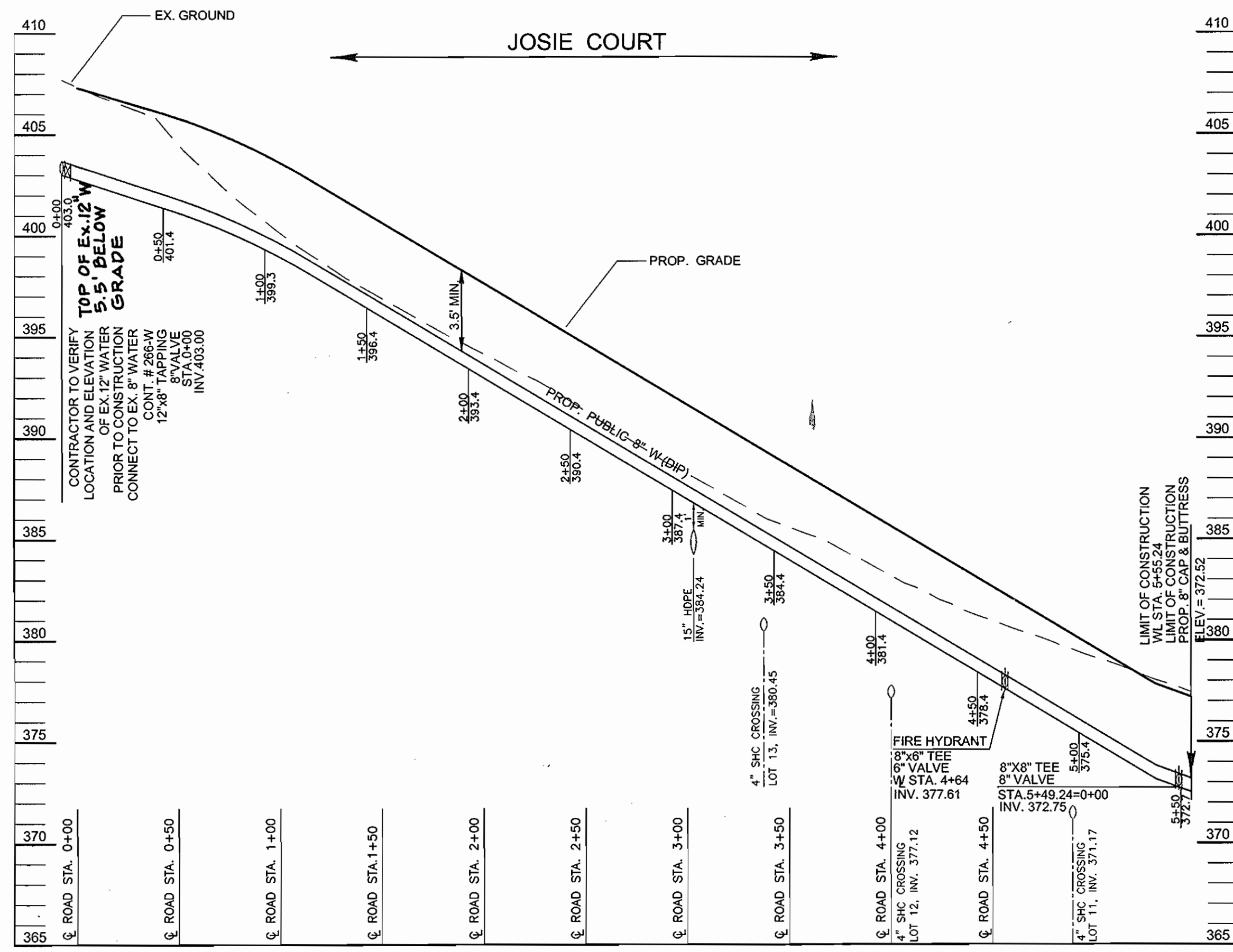
**AS BUILT**  
DATE: MAY 2005

LOT 1			LOT 10		
FROM	SHC	WHC	FROM	SHC	WHC
LOT 2 WHC	45'	71.5'	SDMH-10	80'	55'
SMH-0 (SAN.)	19'	30'	SMH-5 (SAN.)	82.5'	50'
LOT 1 WHC	17'	17'	I-17	84'	40.5'
LOT 2			LOT 11		
SMH-0 (SAN.)	57.5'	48'	SDMH-10	54.5'	07.5'
LOT 3 WHC	73'	10'	FH VALVE	42.5'	18.5'
LOT 1 SHC	55'	45'	FIRE HYDRANT	39'	14'
LOT 3			LOT 12		
I-19	48.5'	50.5'	FH VALVE	70.5'	00.5'
I-18	31.5'	41.5'	FIRE HYDRANT	75'	04.5'
LOT 4 WHC	77'	87.5'	I-19	78'	88.5'
LOT 4			LOT 13		
LOT 13 SHC	49'	45'	I-19	11.5'	35'
I-19	03.5'	55'	I-18	30'	51.5'
I-18	58.5'	48.5'	LOT 13 SHC	25'	25'
LOT 5			8" WATER VALVE (CUL-DE-SAC)		
FIRE HYDRANT	47'	52.5'	0+02 WATER LOOP		
FH VALVE	41.5'	48'	SMH-5 (SAN.)	15.9'	
LOT 12 WHC	02'	50'	SDMH-10	13.9'	
			LOT 10 WHC	41'	
LOT 6			8" FIRE HYDRANT VALVE		
LOT 7 WHC	39'	81' FH	STA. 4+04		
LOT 6 SHC	73'	49' SMH-5 (SAN.)	FIRE HYDRANT	8'	
LOT 7 SHC	50.5'	51' SDMH-10	LOT 11 WHC	18'	
			LOT 5 SHC	42'	
LOT 7					
LOT 6 SHC	39'	50.5'			
SMH-5 (SAN.)	47.5'	50' SMH-4			
SDMH-10	40'	30' LOT 6 WHC			

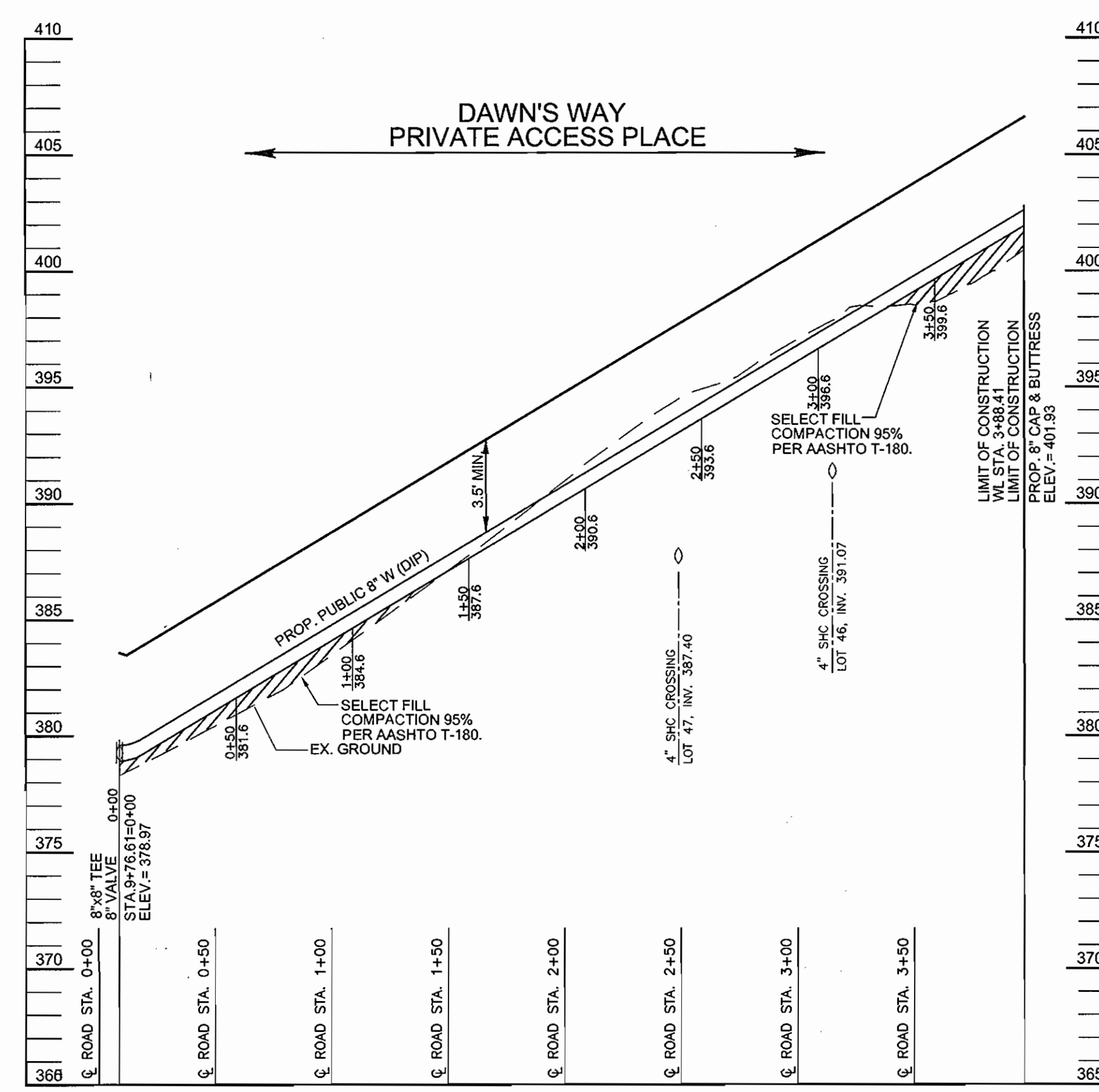
LOTS 8 AND 9 OPEN SPACE (POND No. 2)



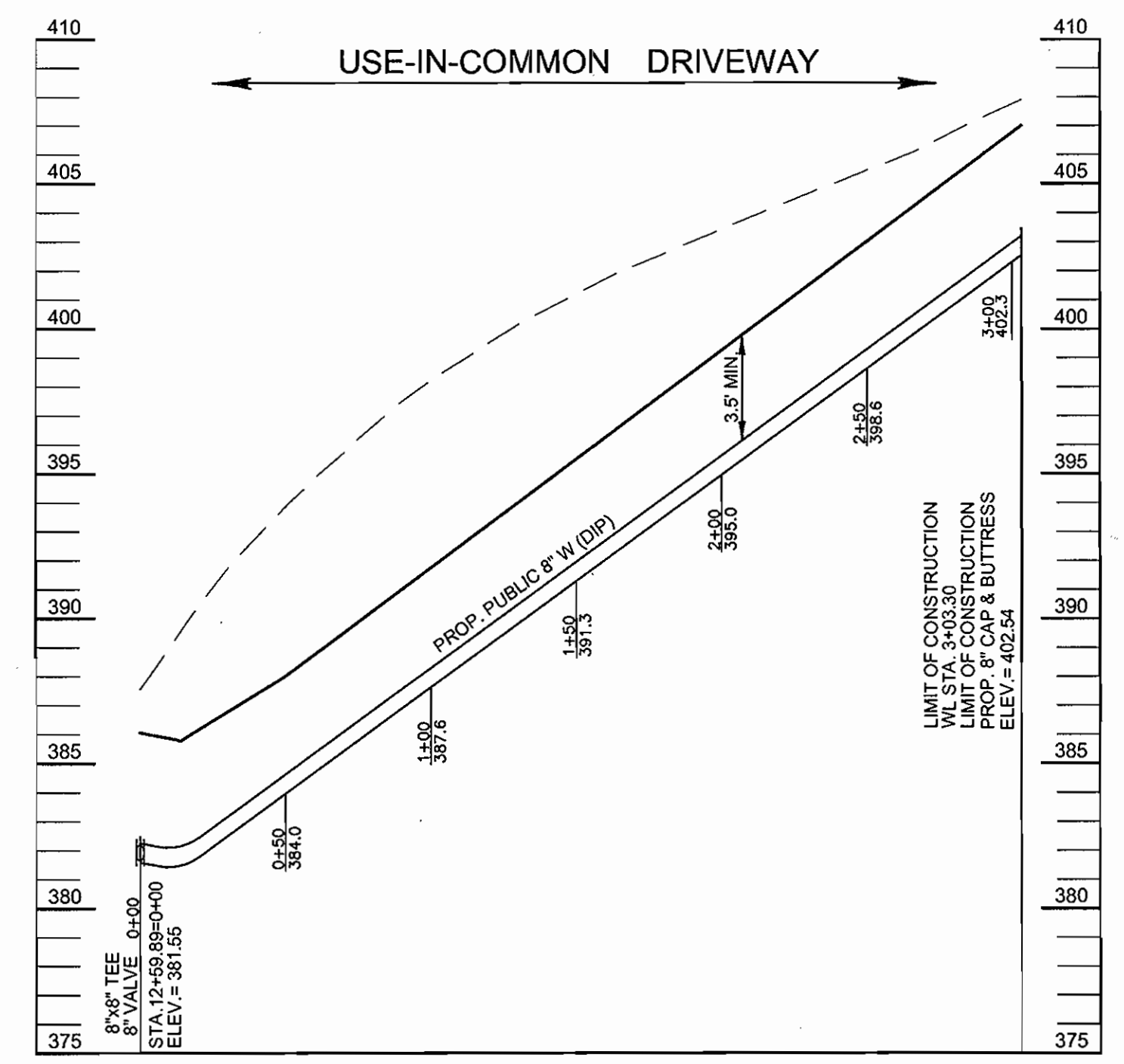




**WATER PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

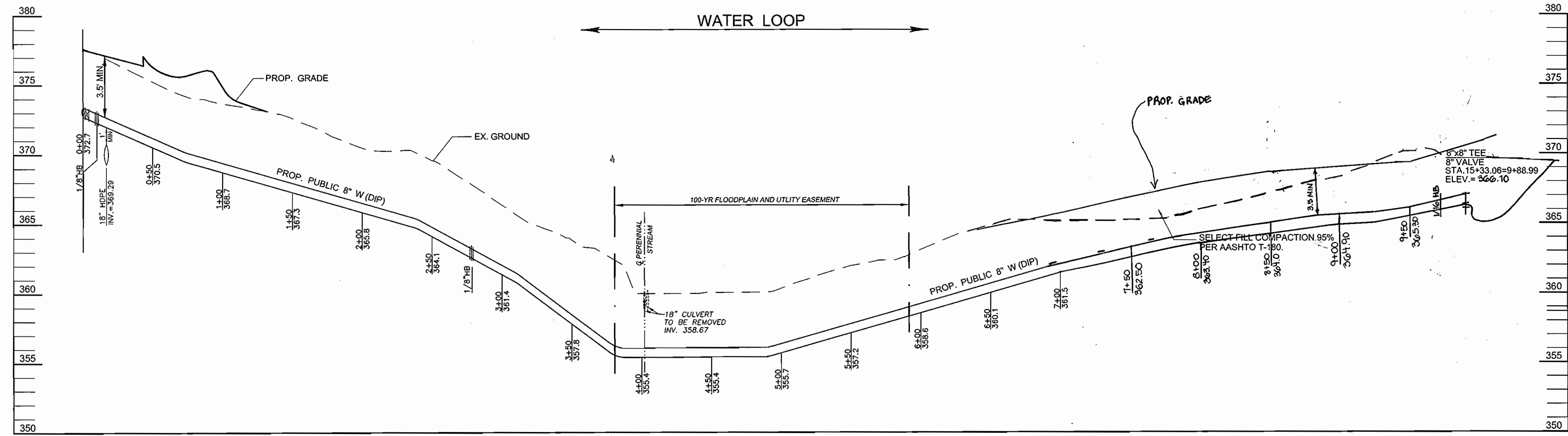


**WATER PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



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

CRIMP	LENGTH	RADIUS	PC STA.	PT STA.
CR1	32.84	1815.40	0+00	0+32.84
CR2	86.40	220.00	4+12.13	4+98.53
CR3	63.74	220.00	5+99.16	6+62.90
CR4	319.91	509.00	9+30.46	12+50.37
CR5	44.30	220.00	13+12.21	13+56.51
CR6	41.66	220.00	9+17.64	9+59.30
CR7	54.07	220.00	2+00.18	2+54.25
CR8	67.99	220.00	0+60.38	1+28.37
CR9	42.83	220.00	0+00	0+43.83



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

CL ROAD/WL STA.	APPURTENANCE	OFFSET/NORTHING-EASTING
ILCHESTER WOODS WAY		
CL ROAD 0+56	8" DIVISION VALVE	5' LEFT
HARVEY LANE		
CL ROAD 2+18	8" X 6" TEE	8' LEFT
CL ROAD 2+18	6" VALVE	11' LEFT
CL ROAD 2+18	FIRE HYDRANT	22' LEFT
CL ROAD 6+10	8" X 6" TEE	9' LEFT
CL ROAD 6+10	6" VALVE	13' LEFT
CL ROAD 6+10	FIRE HYDRANT	16' LEFT
CL ROAD 7+62	8" VALVE	9' LEFT
CL ROAD 10+09	8" X 6" TEE	9' LEFT
CL ROAD 10+09	6" VALVE	13' LEFT
CL ROAD 10+09	FIRE HYDRANT	16' LEFT
CL ROAD 10+41	8" VALVE	4' LEFT
WL STA. 15+09	8" VALVE	N 567587, E 1376407
WL STA. 15+63	8" CAP & BUTTRESS	N 567554, E 1376450
DAWN'S WAY		
CL ROAD 0+09	8" X 8" TEE	5' LEFT
CL ROAD 0+13	8" VALVE	5' LEFT
CL ROAD 3+91	8" CAP & BUTTRESS	5' LEFT
USE-IN-COMMON DRIVEWAY (LOTS 34-38)		
10+37 (HARVEY LANE)	8" X 6" TEE	10' LEFT
10+37 (HARVEY LANE)	8" VALVE	13' LEFT
WL STA. 3+03	8" CAP & BUTTRESS	N 567985 E 1376415
WATER LOOP		
WL STA. 0+00	8" X 8" TEE	N 567468 E 1375530
WL STA. 0+04	8" VALVE	N 567464 E 1375531
WL STA. 9+86	8" VALVE	N 567370 E 1376424
WL STA. 9+89	8" X 8" TEE	N 567372 E 1376426
JOSIE COURT		
CL ROAD -0+08	8" X 12" TAPPING SLEEVE	5' LEFT
CL ROAD -0+04	8" VALVE	5' LEFT
CL ROAD 4+56	8" X 6" TEE	5' LEFT
CL ROAD 4+56	6" VALVE	9' LEFT
CL ROAD 4+56	FIRE HYDRANT	14' LEFT
WL STA. 5+55	8" CAP & BUTTRESS	N 567470 E 1375536

**AS BUILT**  
DATE: MAY 2005

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*R. J. ...* 9-15-04  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

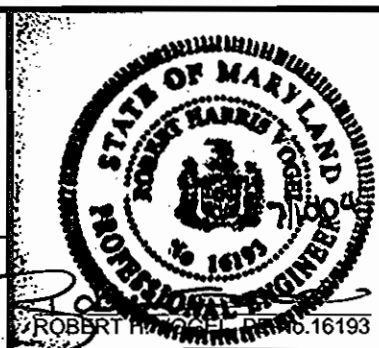
*M. ...* 9/20/04  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

**ROBERT H. VOGEL ENGINEERING, INC.**  
ENGINEERS • SURVEYORS • PLANNERS  
8407 MAIN STREET TEL: 410.461.7666  
ELLCOTT CITY, MD 21043 FAX: 410.461.8961

DES:	CMH/RJ				
DRN:	CMH/RJ				
CHK:	RHV				
DATE:	SEPT. 2004				
RV:	1	REVISE GRADE FOR HOWARD CO. DRIVEWAY	4/4/06		
BY:	NO.	REVISION	DATE		

**WATER PROFILES**

600' SCALE MAP NO. 31  
BLOCK NO. 21



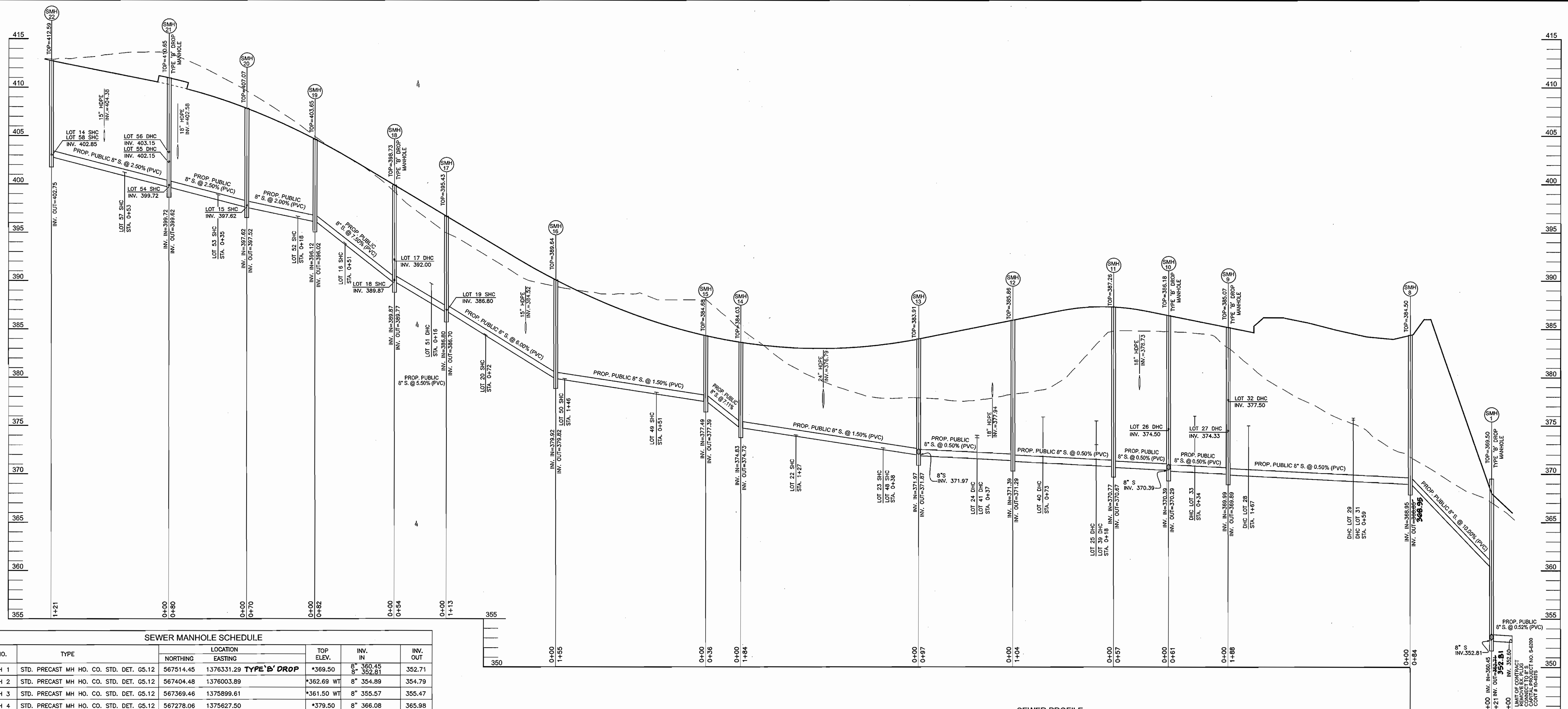
**DENNIS PRESERVE**  
LOTS 1-58  
CONTRACT NO. 14-4078-D

TAX MAP 31 BLOCK 21  
1ST ELECTION DISTRICT

PARCEL '226'  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 5 OF 7



SEWER MANHOLE SCHEDULE

NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT
SMH 1	STD. PRECAST MH HO. CO. STD. DET. G5.12	NORTHING 567514.45 EASTING 1376331.29	*368.50	8" 360.45	352.71
SMH 2	STD. PRECAST MH HO. CO. STD. DET. G5.12	567404.48 1376003.89	*362.69 WT	8" 354.89	354.79
SMH 3	STD. PRECAST MH HO. CO. STD. DET. G5.12	567369.46 1375899.61	*361.50 WT	8" 355.57	355.47
SMH 4	STD. PRECAST MH HO. CO. STD. DET. G5.12	567278.06 1375627.50	*379.50	8" 366.08	365.98
SMH 5	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 5+31, 5' RT JOSIE COURT	377.75	(2)8" 368.22	368.12
SMH 6	STD. PRECAST MH HO. CO. STD. DET. G5.12	567649.48 1375453.24	*381.00 WT	-	369.26
SMH 7	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 1+33, 5' RT JOSIE COURT	401.49	4" 392.76	388.12
SMH 8	STD. PRECAST MH HO. CO. STD. DET. G5.12	567580.96 1376382.55	384.50	8" 368.95	368.85
SMH 9	STD. PRECAST MH HO. CO. STD. DET. G5.12	567695.62 1376233.78	385.07	8" 369.99	369.89
SMH 10	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 10+27, 11' RT HARVEY LANE	386.18	(2)8" 370.33, 4" 374.50	370.29
SMH 11	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 9+71, 1' RT HARVEY LANE	387.26	8" 370.77	370.67
SMH 12	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 8+66, 1' RT HARVEY LANE	385.86	8" 371.39	371.29
SMH 13	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 7+69, 1' RT HARVEY LANE	383.91	(2)8" 371.97	371.87
SMH 14	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 5+86, 5' RT HARVEY LANE	384.03	8" 374.83	374.73
SMH 15	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 5+52, 3.15' RT HARVEY LANE	384.68	8" 377.49	377.39
SMH 16	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 3+96, 3.94' RT HARVEY LANE	389.64	8" 379.92	379.82
SMH 17	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 2+84, 7.49' RT HARVEY LANE	395.43	8" 386.80	386.70
SMH 18	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 2+33, 7.67' RT HARVEY LANE	398.73	8" 389.87, 4" 392.00	389.77
SMH 19	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 1+53, 7.61' RT HARVEY LANE	403.65	8" 396.12	396.02
SMH 20	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 0+85, 6' RT HARVEY LANE	407.07	8" 397.62	397.52
SMH 21	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 2+47, 5' RT ILCHESTER WOODS WAY	410.65	8" 399.72, 4" 399.72, 4" 403.15, 4" 402.15	399.62
SMH 22	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 1+25, 5' RT ILCHESTER WOODS WAY	412.59	4" 402.85	402.75
SMH 23	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 3+13, 2.31' RT DAWN'S WAY	401.50	4" 390.85	390.75
SMH 24	STD. PRECAST MH HO. CO. STD. DET. G5.12	Q STA. 3+91, 5' RT DAWN'S WAY	406.07	(2)4" 397.03	396.93
SMH 25	STD. PRECAST MH HO. CO. STD. DET. G5.12	567773.60 1376231.32	386.30	8" 376.64	376.54
SMH 26	STD. PRECAST MH HO. CO. STD. DET. G5.12	567991.73 1376407.21	406.90	4" 396.34	396.24

SEWER CONNECTION TABULATION

LOT NO	TYPE	ELEV. @ MANHOLE	ELEV. @ R/W	ELEV. @ UNIT	M.C.E.	BASEMENT
1	DHC	392.76	393.10	394.80	397.30	399.25
2	DHC	389.45	389.79	391.30	393.80	394.89
3	DHC	384.36	384.70	386.40	388.90	390.50
4	DHC	377.04	377.36	379.00	381.50	386.22
5	SHC	373.59	373.93	375.90	378.40	382.09
6	DHC	370.00	370.20	371.10	373.60	377.55
7	SHC	366.73	366.93	367.70	370.20	375.07
8	OPEN SPACE LOT					
9	OPEN SPACE LOT					
10	SHC	368.79	368.99	370.30	372.80	374.21
11	SHC	370.49	371.17	373.30	375.80	377.10
12	SHC	376.92	377.42	378.90	381.40	381.40
13	DHC	380.24	380.74	382.50	384.80	385.78
14	SHC	403.10	403.27	405.50	408.00	408.91
15	SHC	397.62	397.95	399.50	402.00	402.91
16	SHC	393.87	394.25	396.80	399.30	400.37
17	DHC	392.00	392.46	395.20	397.70	400.18
18	SHC	389.87	390.16	393.40	395.90	398.16
19	SHC	386.80	387.09	389.50	392.00	392.07
20	SHC	384.41	384.79	387.70	390.20	390.28
21	OPEN SPACE LOT					
22	SHC	374.04	374.44	375.80	378.30	381.04
23	SHC	372.71	373.09	374.90	377.40	380.39
24	DHC	373.74	374.11	375.50	378.00	380.64
25	DHC	373.03	373.42	374.80	377.30	381.00
26	DHC	374.50	374.77	376.90	379.40	381.87
27	DHC	374.33	375.01	377.70	380.20	383.21
28	DHC	375.00	375.62	378.00	380.50	384.48
29	DHC	375.80	376.00	377.00	379.50	383.52

SEWER CONNECTION TABULATION

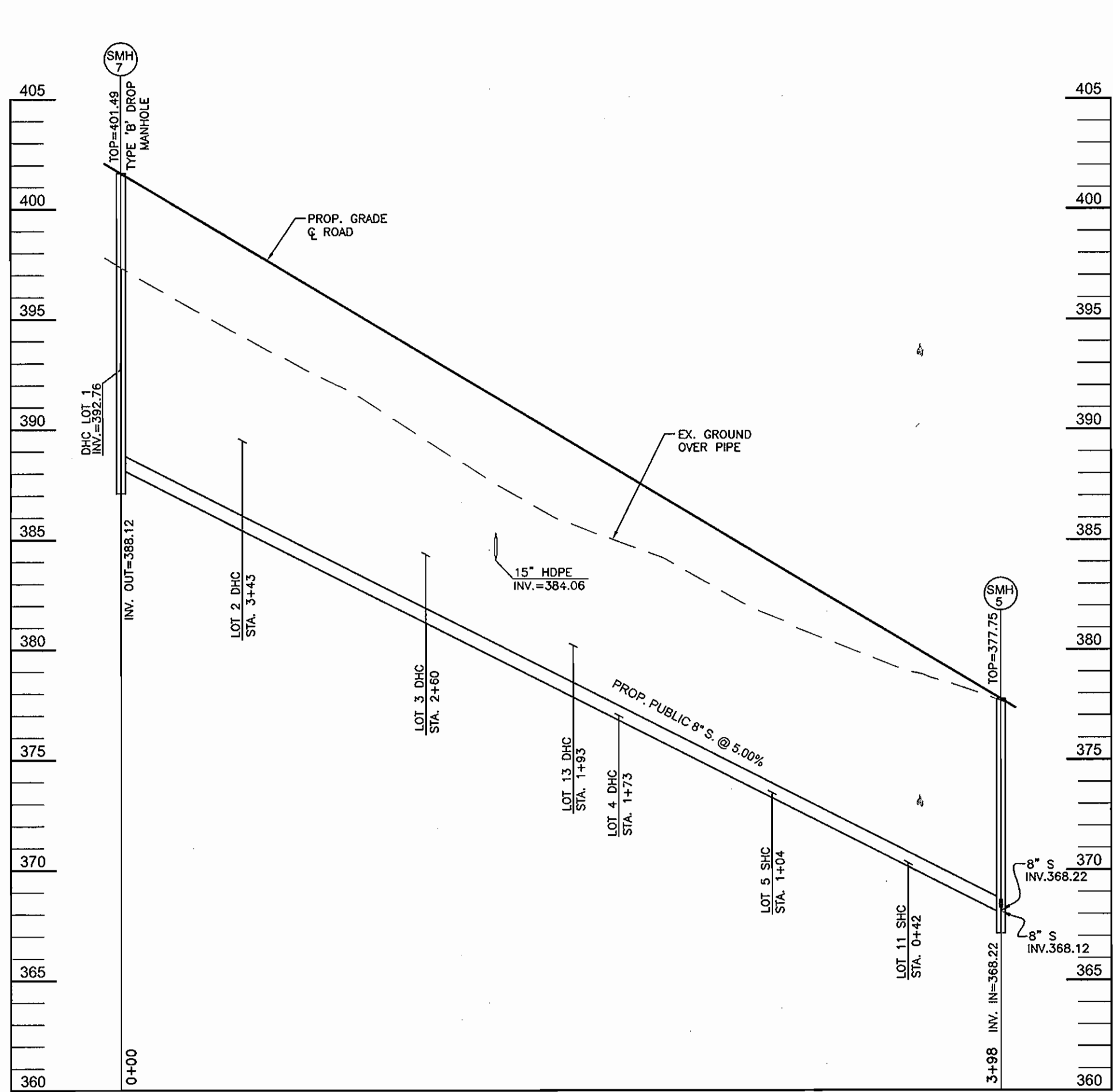
LOT NO	TYPE	ELEV. @ MANHOLE	ELEV. @ R/W	ELEV. @ UNIT	M.C.E.	BASEMENT
30	OPEN SPACE LOT					
31	DHC	375.60	376.20	377.60	380.10	386.10
32	DHC	377.50	378.88	381.70	384.20	388.25
33	DHC	376.00	377.54	380.00	382.50	386.49
34	OPEN SPACE LOT					
35	OPEN SPACE LOT					
36	SHC	396.34	396.54	398.50	401.00	404.20
37	SHC	392.77	392.97	394.60	397.10	400.72
38	SHC	387.52	387.72	389.50	392.00	394.75
39	DHC	375.50	375.95	377.50	380.00	383.87
40	DHC	375.90	376.37	378.30	380.80	384.75
41	DHC	374.00	374.47	376.20	378.70	382.77
42	DHC	386.90	387.10	388.50	391.00	395.03
43	SHC	392.46	392.66	394.50	397.00	400.81
44	SHC	397.03	397.31	399.00	401.50	401.59
45	SHC	397.03	397.48	398.80	401.30	401.59
46	SHC	390.85	391.26	392.70	395.20	399.96
47	SHC	387.20	387.60	388.50	391.00	391.04
48	SHC	372.71	373.17	375.40	377.90	381.58
49	SHC	378.42	378.93	380.20	382.70	383.22
50	SHC	379.85	380.36	382.70	385.20	387.96
51	DHC	389.59	390.11	391.90	394.40	397.13
52	SHC	396.65	397.14	398.50	401.00	401.88
53	SHC	398.67	399.21	401.40	403.90	404.57
54	SHC	399.72	400.82	403.70	406.20	407.12
55	DHC	402.15	403.26	405.40	407.90	407.91
56	DHC	403.15	404.25	406.20	408.70	409.77
57	SHC	401.22	401.82	403.90	406.40	409.30
58	SHC	403.10	403.45	405.20	407.70	409.75

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

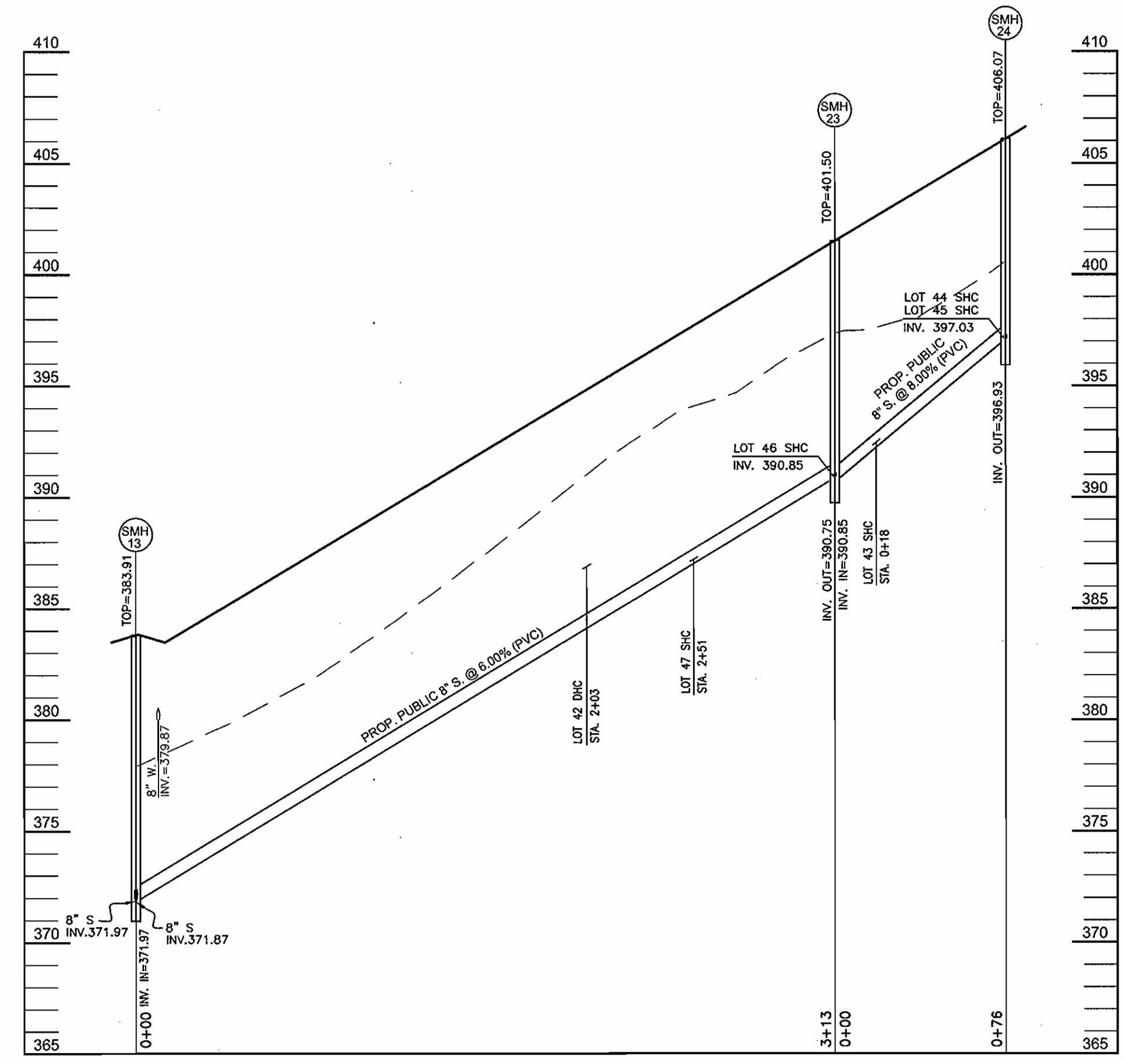
**AS BUILT**  
DATE: MAY 2005

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 9-15-04 CHIEF, BUREAU OF UTILITIES.	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND 9/20/04 CHIEF, DEVELOPMENT ENGINEERING DIVISION	<b>ROBERT H. VOGEL ENGINEERING, INC.</b> ENGINEERS • SURVEYORS • PLANNERS 8407 MAIN STREET ELLICOTT CITY, MD 21043 TEL: 410.461.7666 FAX: 410.461.8961	DES: CMH/RJ DRN: CMH/RJ CHK: RHV DATE: SEPT. 2004	SEWER PROFILES 600' SCALE MAP NO. 31 BLOCK NO. 21		<b>DENNIS PRESERVE</b> LOTS 1-58 CONTRACT NO. 14-4078-D TAX MAP 31 BLOCK 21 1ST ELECTION DISTRICT	SCALE AS SHOWN SHEET 6 OF 7 PARCEL '226' HOWARD COUNTY, MARYLAND
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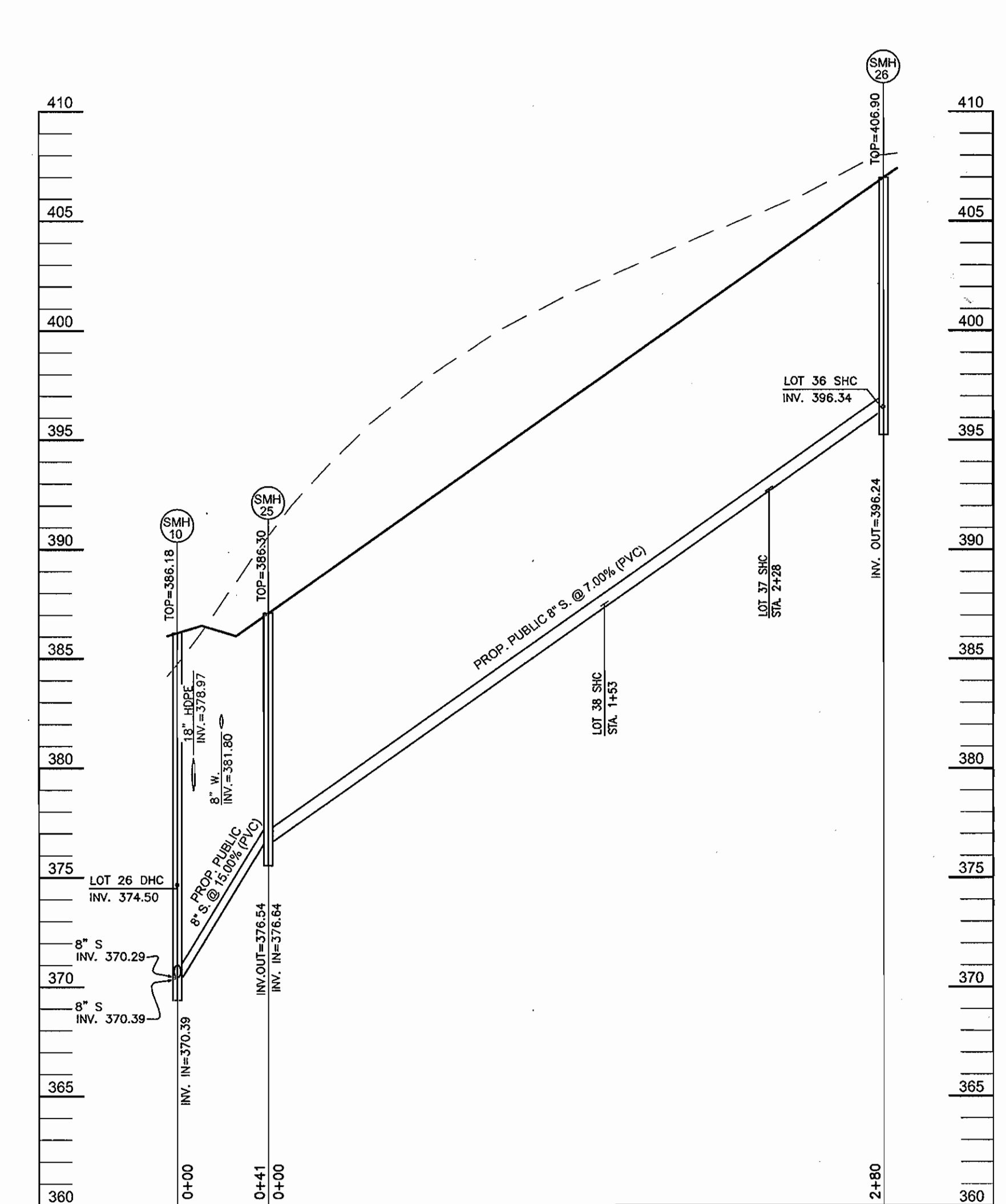




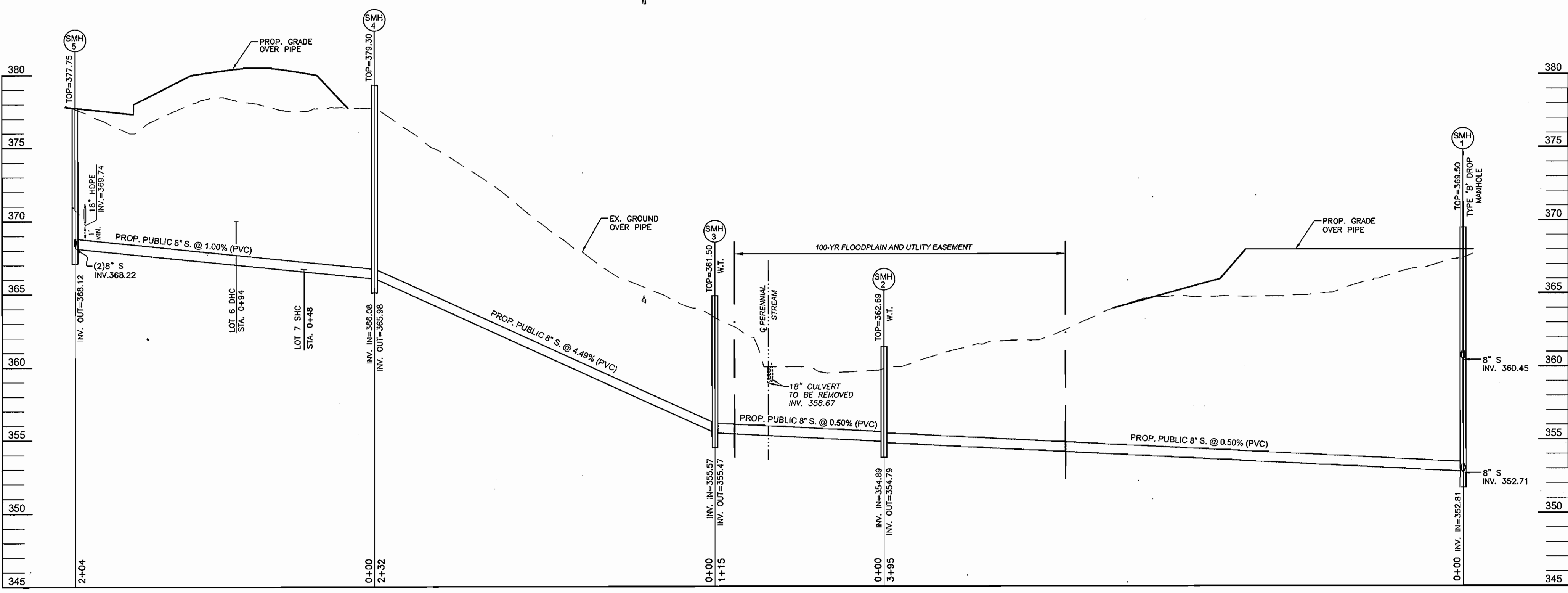
SEWER PROFILE  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



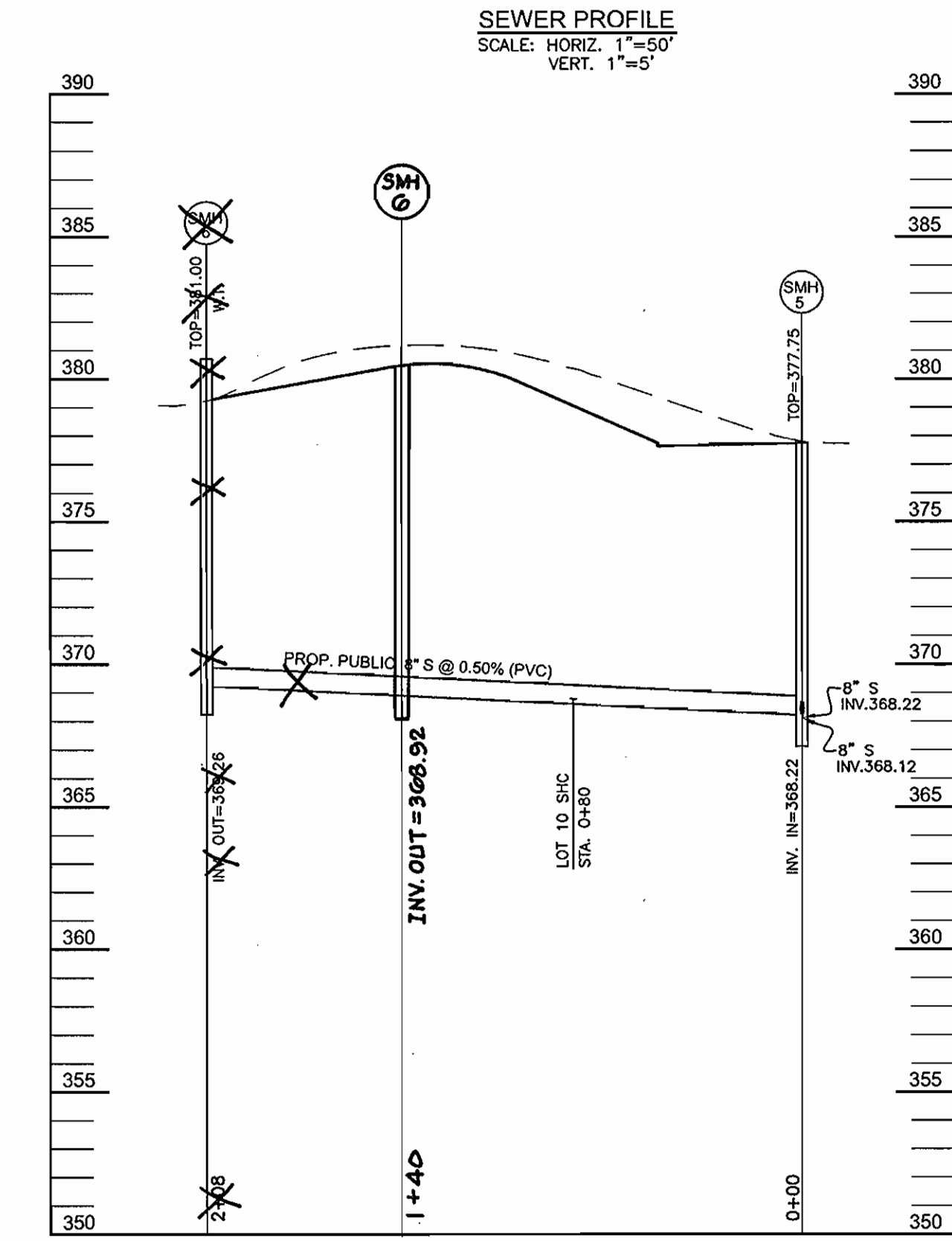
SEWER PROFILE  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



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



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



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

**AS BUILT**  
DATE: MAY 2005

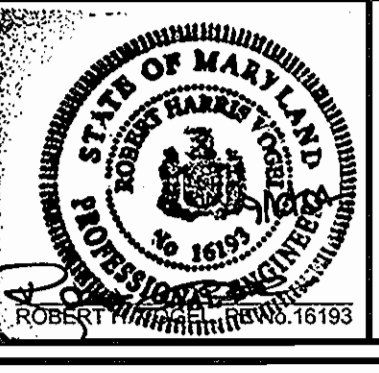
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*R. B. ...*  
9-15-04  
DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
*M. ...*  
9/20/04  
DATE

**ROBERT H. VOGEL ENGINEERING, INC.**  
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DES: CMH/RJ				
DRN: CMH/RJ				
CHK: RHV				
DATE: SEPT. 2004	BY	NO.	REVISION	DATE

**SEWER PROFILES**  
600' SCALE MAP NO. 31  
BLOCK NO. 21



**DENNIS PRESERVE**  
LOTS 1-58  
CONTRACT NO. 14-4078-D  
TAX MAP 31 BLOCK 21  
1ST ELECTION DISTRICT  
PARCEL '226'  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 7 OF 7