

MATCH LINE SEE SHEETS 3 OF 10

PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, BUREAU OF UTILITIES

07-02-01
DATE

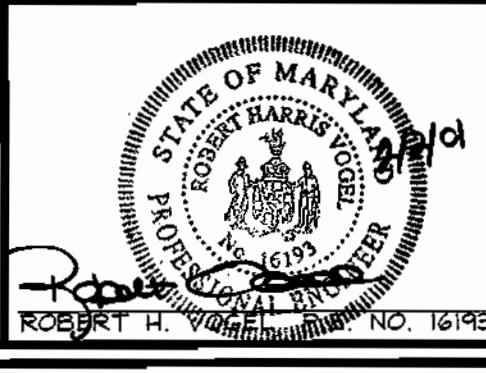
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

2/16/01
DATE

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.8828 Fax 410.465.5966



DES: RJ				
DRN: RJ				
CHK: JCO	JT	2	REVISE UTILITIES AND EASEMENT	12/17/01
DATE: DEC 2000	RJ	1	COUNTY COMMENTS	01/02/01
	BY	NO.	REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 # 31,
2ND ELECTION DISTRICT

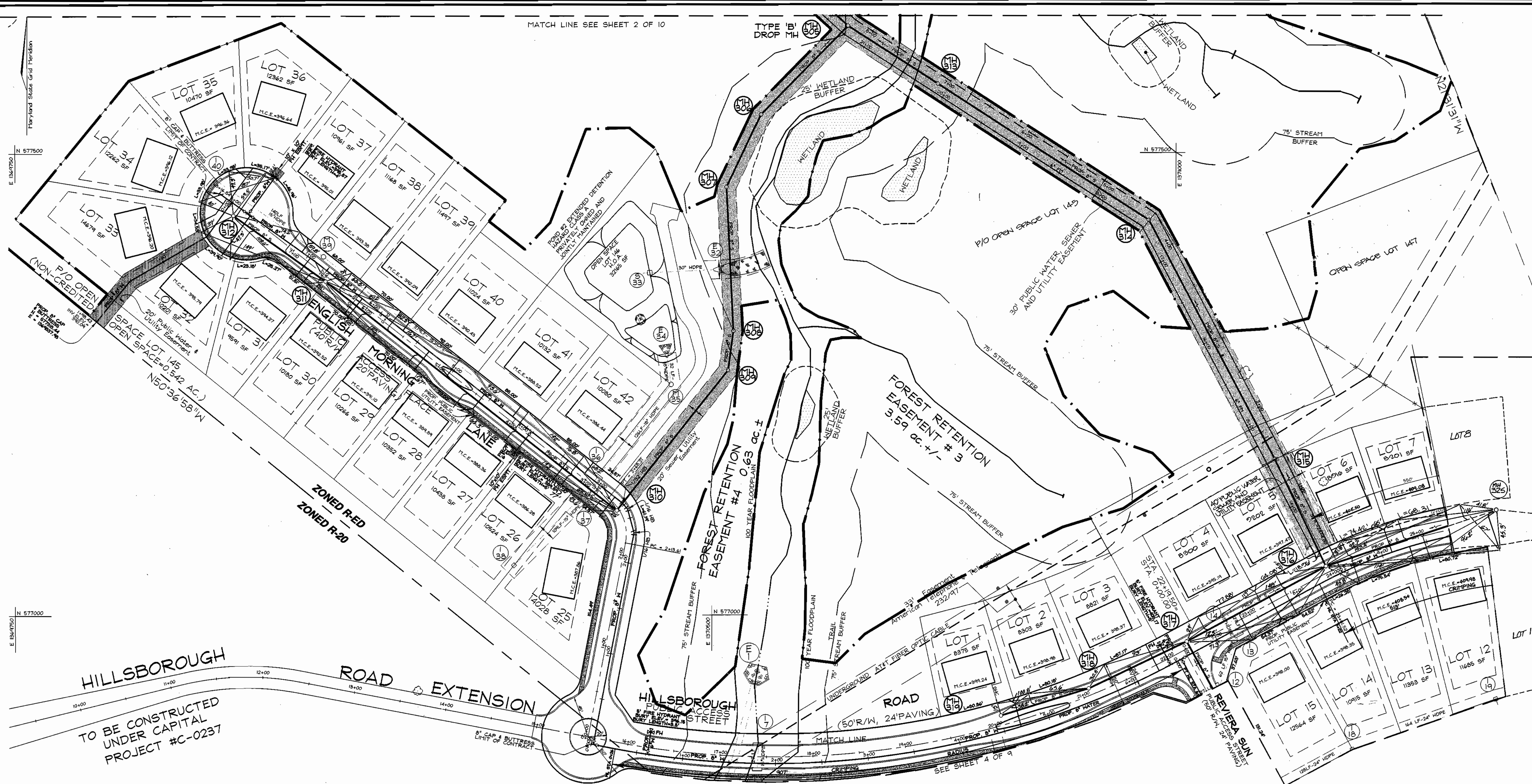
GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 2 OF 9

MATCH LINE SEE SHEET 2 OF 10

TYPE 'B' DROP MH



PLAN
SCALE: 1"=50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert J. ...
CHIEF, BUREAU OF UTILITIES

02-02-01
DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Mr. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION

2/6/01
DATE

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS

3691 Park Avenue, Suite 101 • Elkridge City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEERS

ROBERT H. VOGEL, P.E. NO. 16148

DES: RJ			
DRN: RJ			
CHK: RHV	KCI 2	ASBUILT DATA	10/02/02
DATE: DEC. 2000	RJ 1	COUNTY COMMENTS	01/02/01
	BY NO.	REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
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TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 3 OF 9

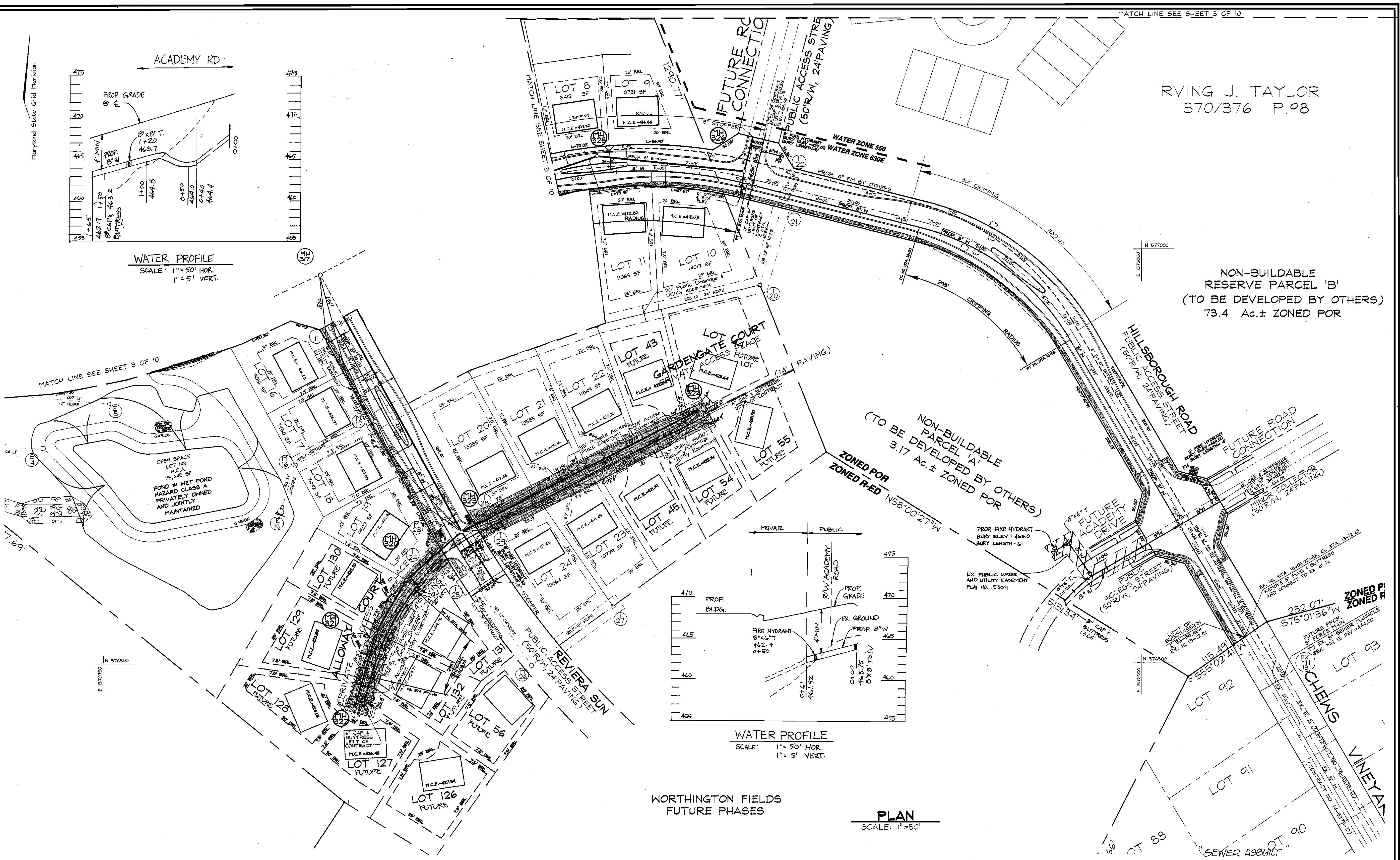
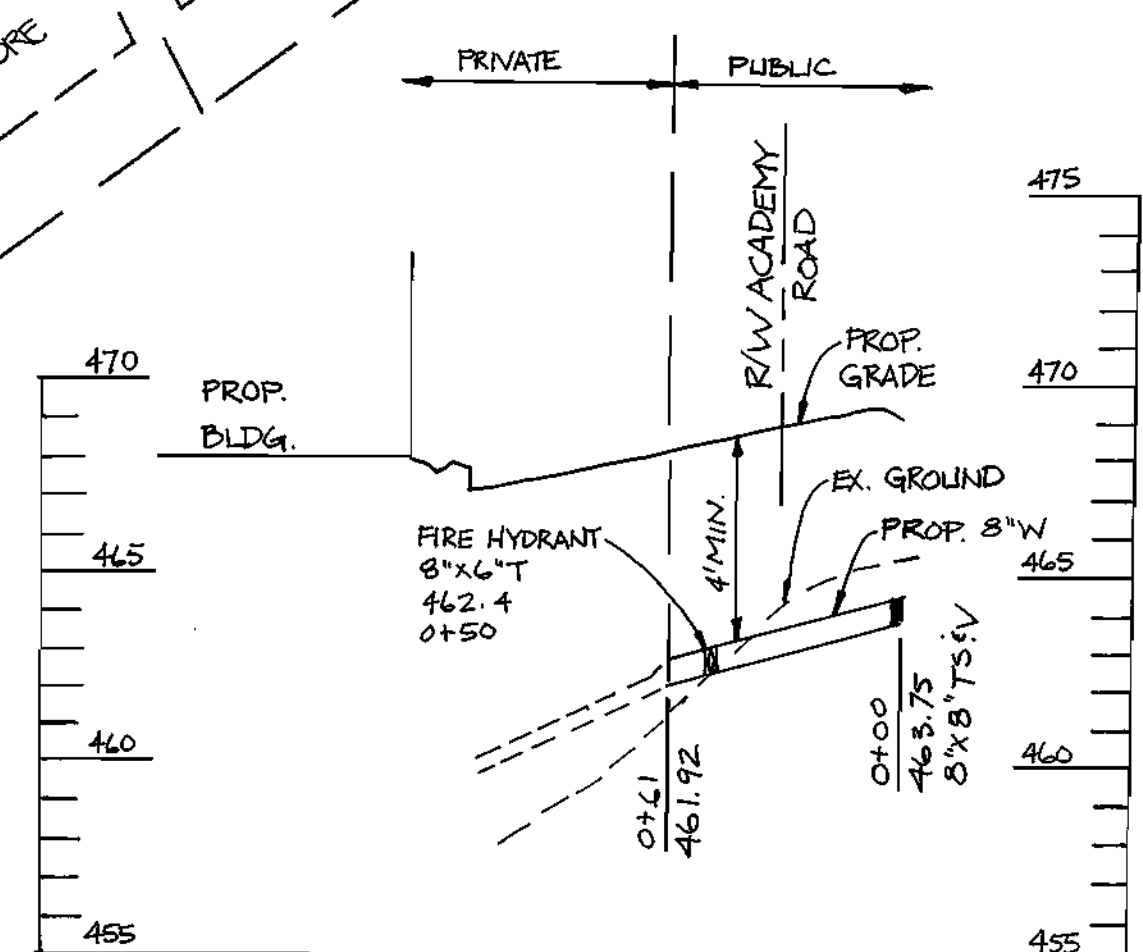
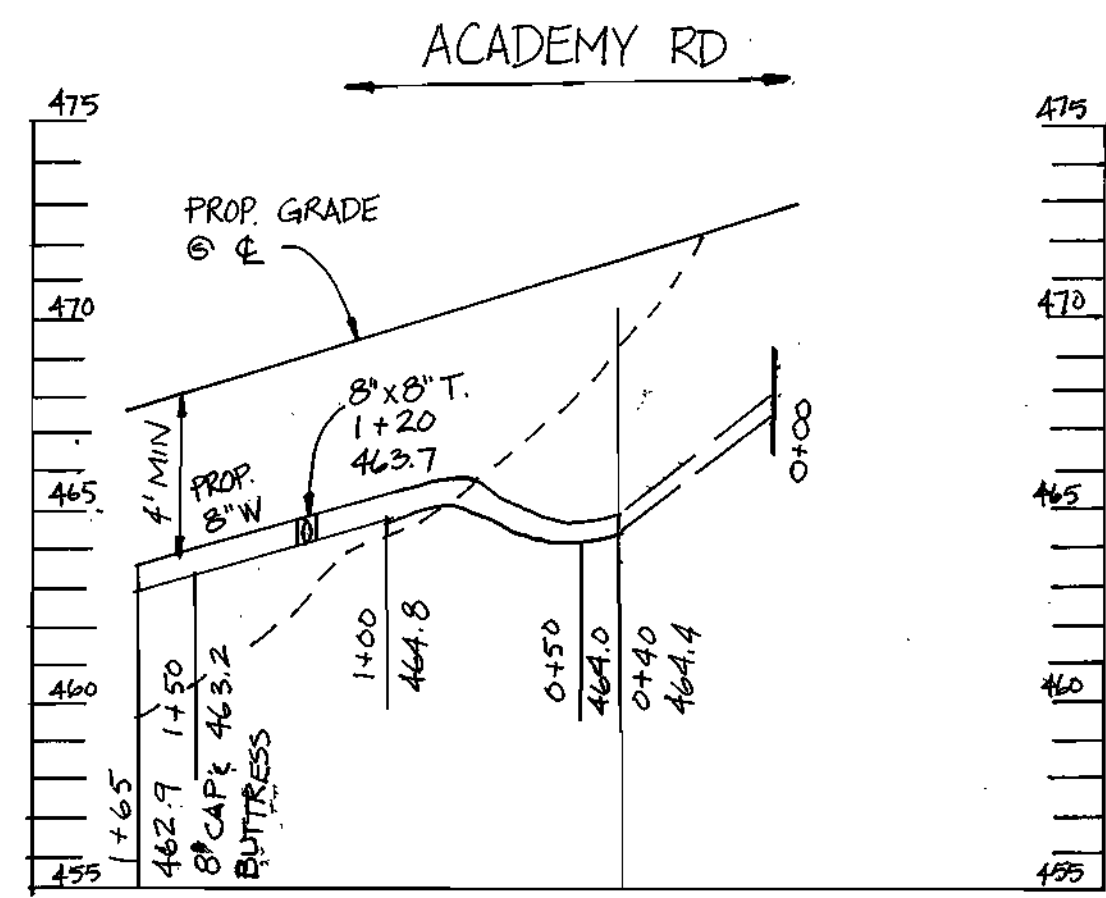
IRVING J. TAYLOR
370/376 P.98

NON-BUILDABLE
RESERVE PARCEL 'B'
(TO BE DEVELOPED BY OTHERS)
73.4 Ac.± ZONED POR

NON-BUILDABLE
PARCEL 'A'
(TO BE DEVELOPED BY OTHERS)
3.17 Ac.± ZONED POR

WORTHINGTON FIELDS
FUTURE PHASES

PLAN
SCALE: 1"=50'



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

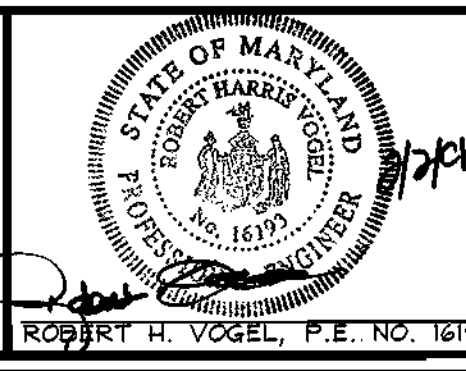
Robert H. Vogels
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Robert H. Vogels
CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL & ASSOCIATES
ENGINEERS SURVEYORS PLANNERS

3581 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



DES: RJ			
DRN: RJ			
CHK: RHV	K.C.I. 3	ASBUILT DATA	10/01/02
	JCO 2	EXTEND WATER MAIN - ACADEMY DR	07/05/02
DATE: DEC. 2000	RJ 1	COUNTY COMMENTS	01/02/01
	BY NO.	REVISION	DATE

WATER & SEWER PLAN

600' SCALE MAP NO. 25 BLOCK NO. 14

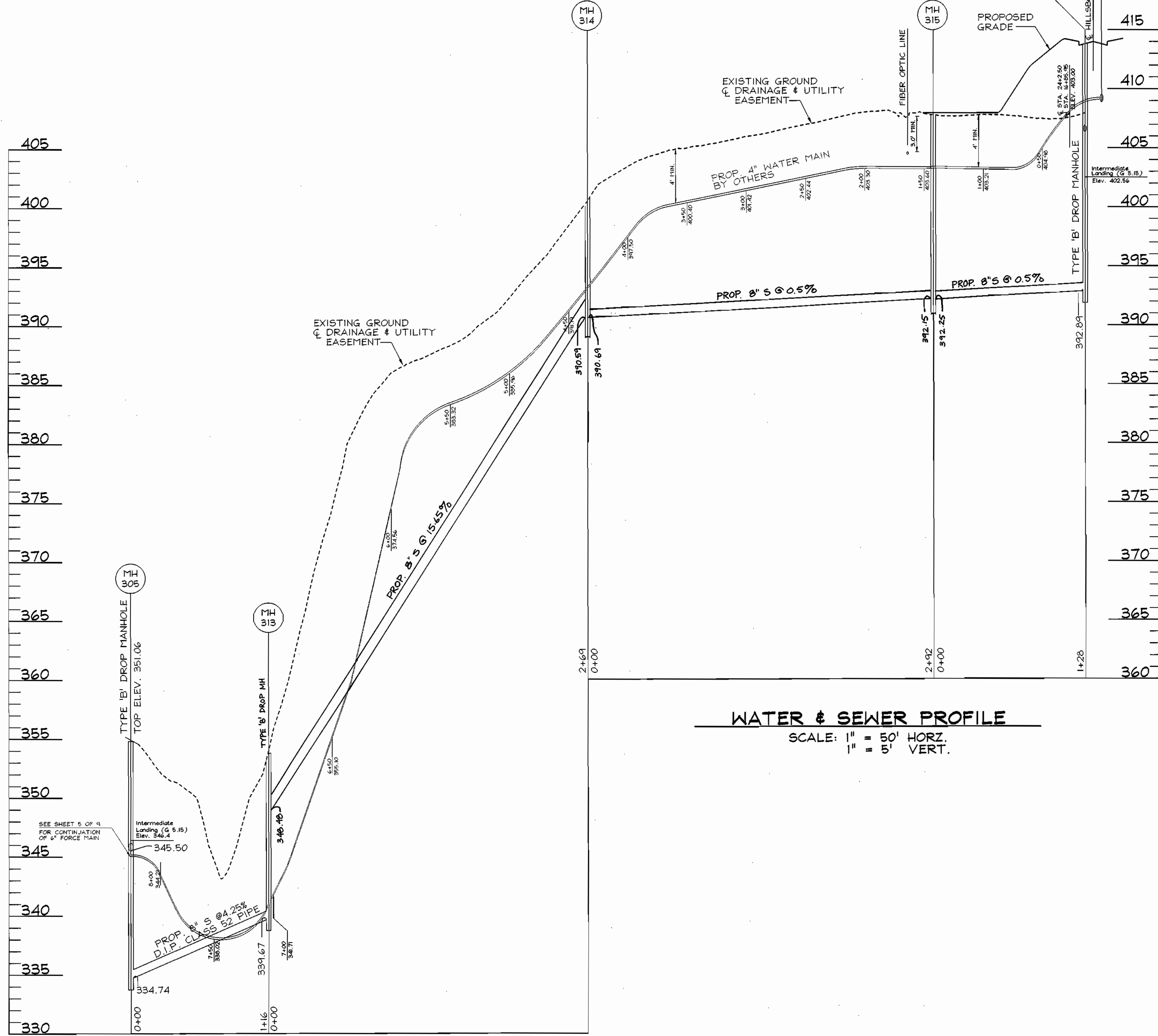
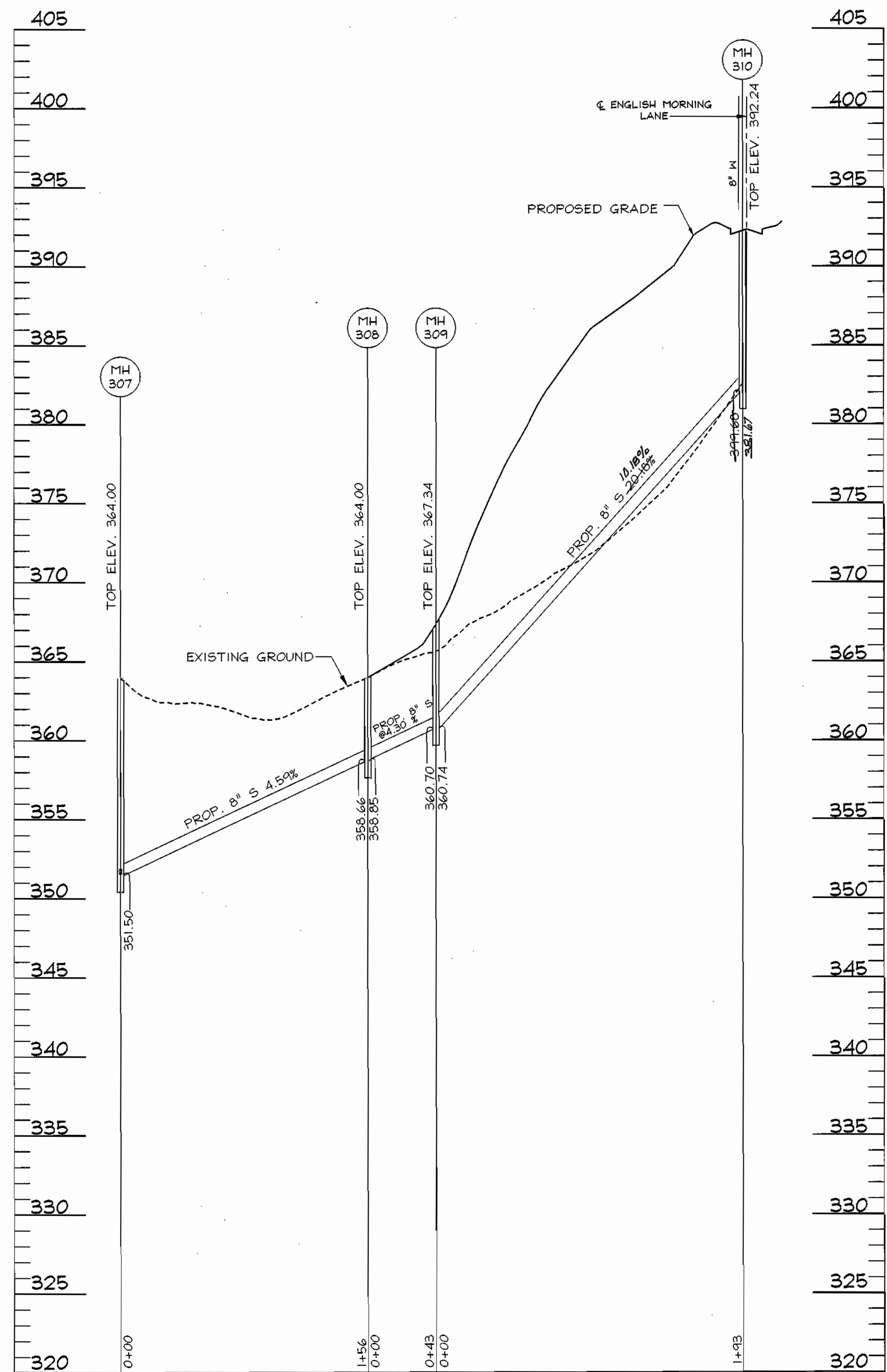
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CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 # 31,
2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

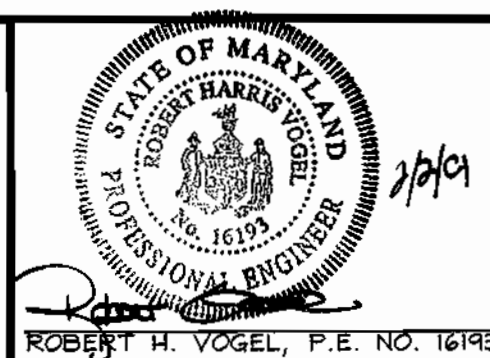
SHEET
4 OF 9



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND



DES: RJ
 DRN: RJ
 CHK: JCO
 DATE: DEC 2000

CH	NO.	REVISION	DATE
CH 2	1	REVISED SEWER PROFILE	1.29.02
RJ	1	COUNTY COMMENTS	01/02/01
BY NO.		REVISION	DATE

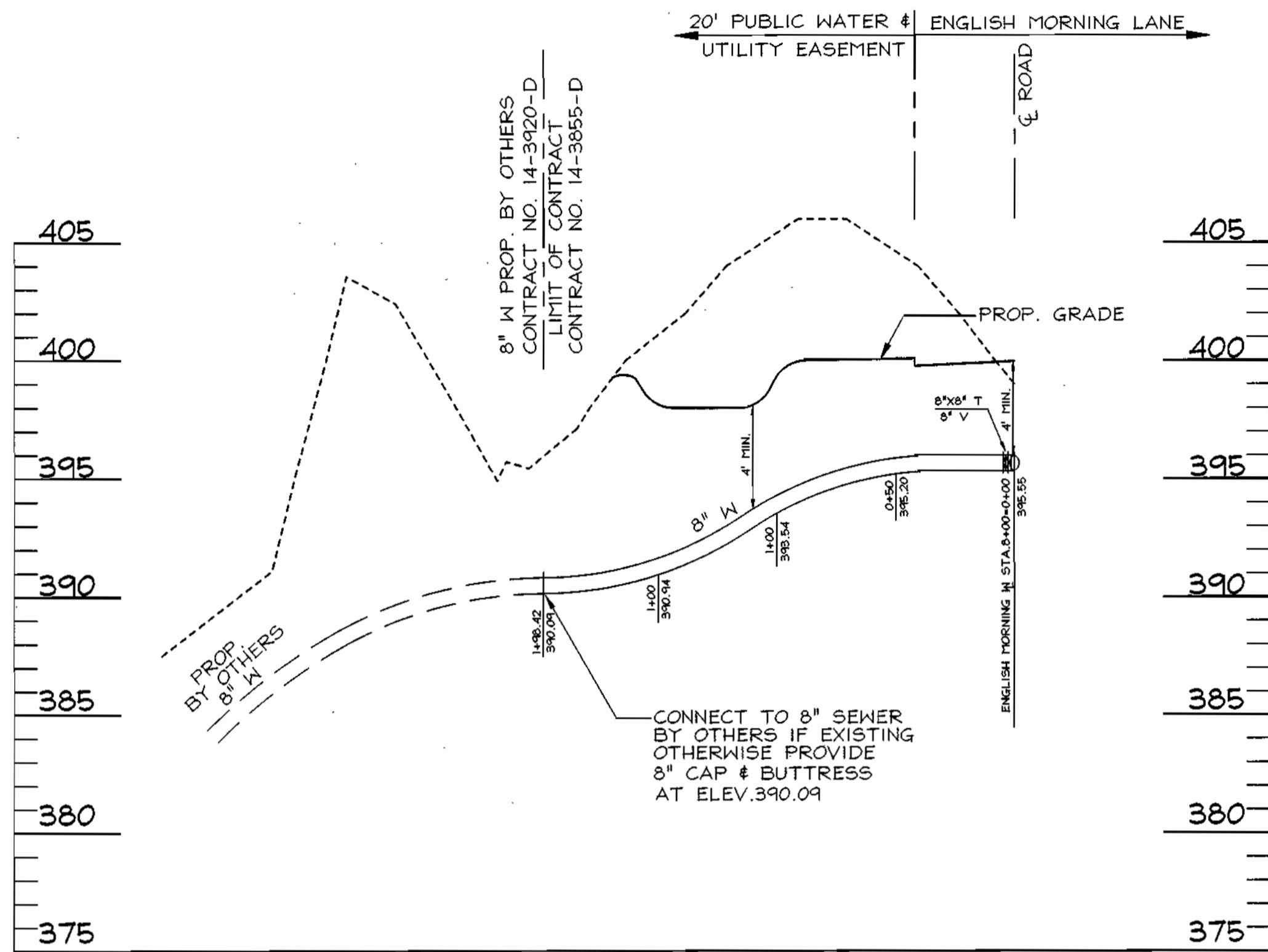
WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

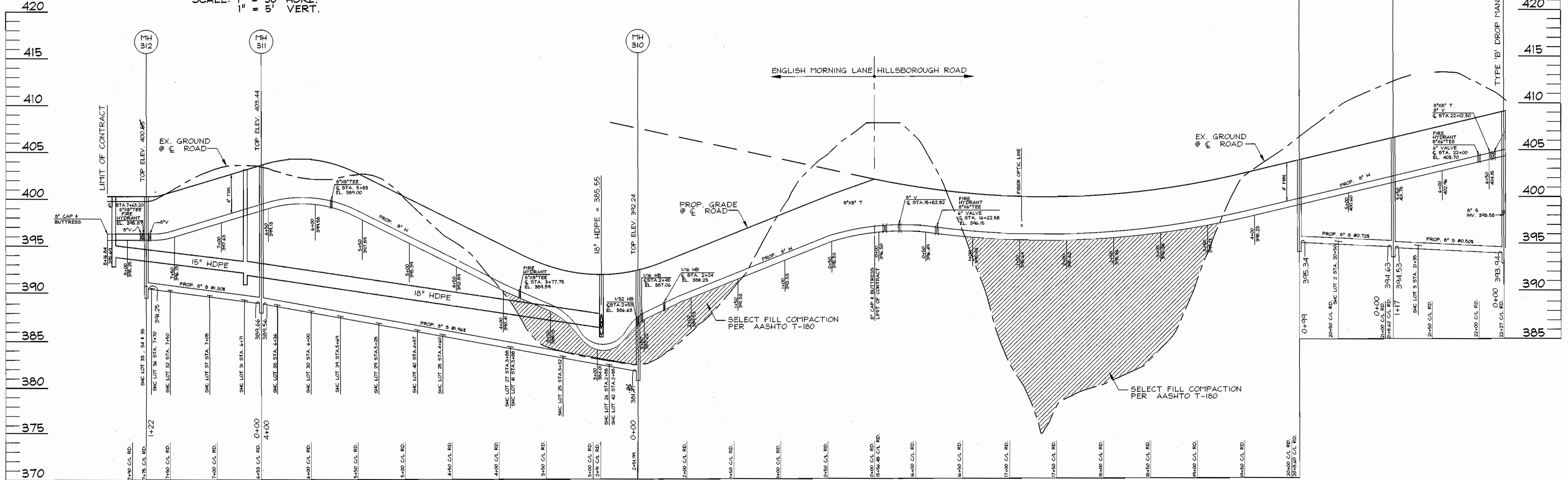
WORTHINGTON FIELDS
 PHASE 1 LOTS 1-42 AND 145-148
 AND NON-BUILDABLE PARCELS 'A' AND 'B'
 CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31, 2ND ELECTION DISTRICT
 GRID 2 P/O PARCEL '98', HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 6 OF 9



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



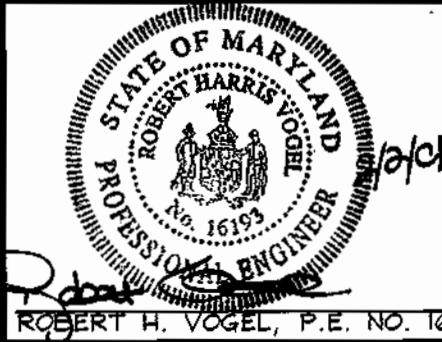
WATER & SEWER PROFILE
SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3968



ROBERT H. VOGEL, P.E. NO. 16183

DES: RJ			
DRN: RJ			
CHK: JCO			
DATE: DEC. 2000	RJ	1	COUNTY COMMENTS
	BY	NO.	REVISION
			DATE: 01/02/01

WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

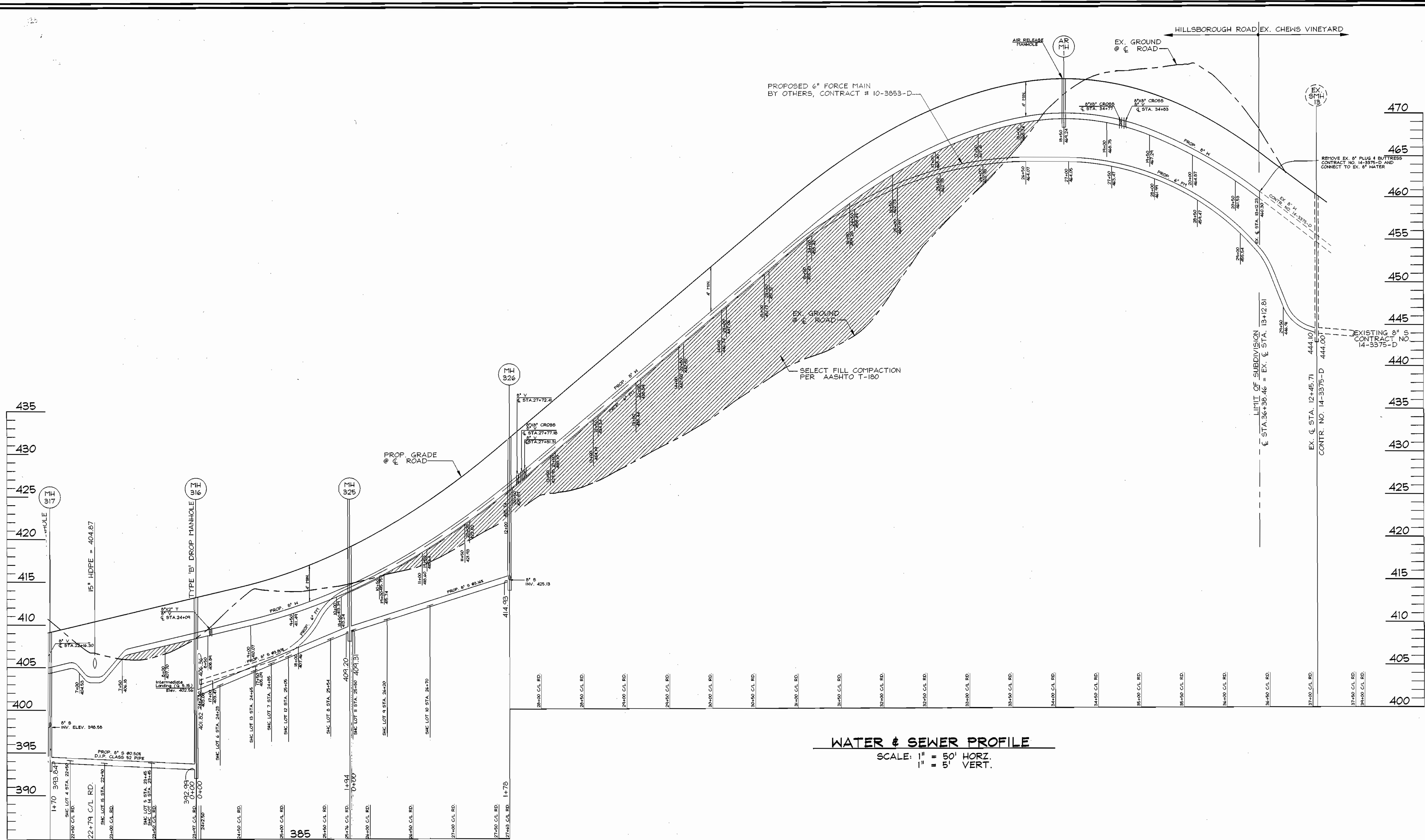
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TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 7 OF 9



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

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Robert Berman
 CHIEF, BUREAU OF UTILITIES
 02-02-01
 DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 2/6/01
 DATE

VOGEL & ASSOCIATES
 ENGINEERS-SURVEYORS-PLANNERS
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel 410.461.5828 Fax 410.453.3966

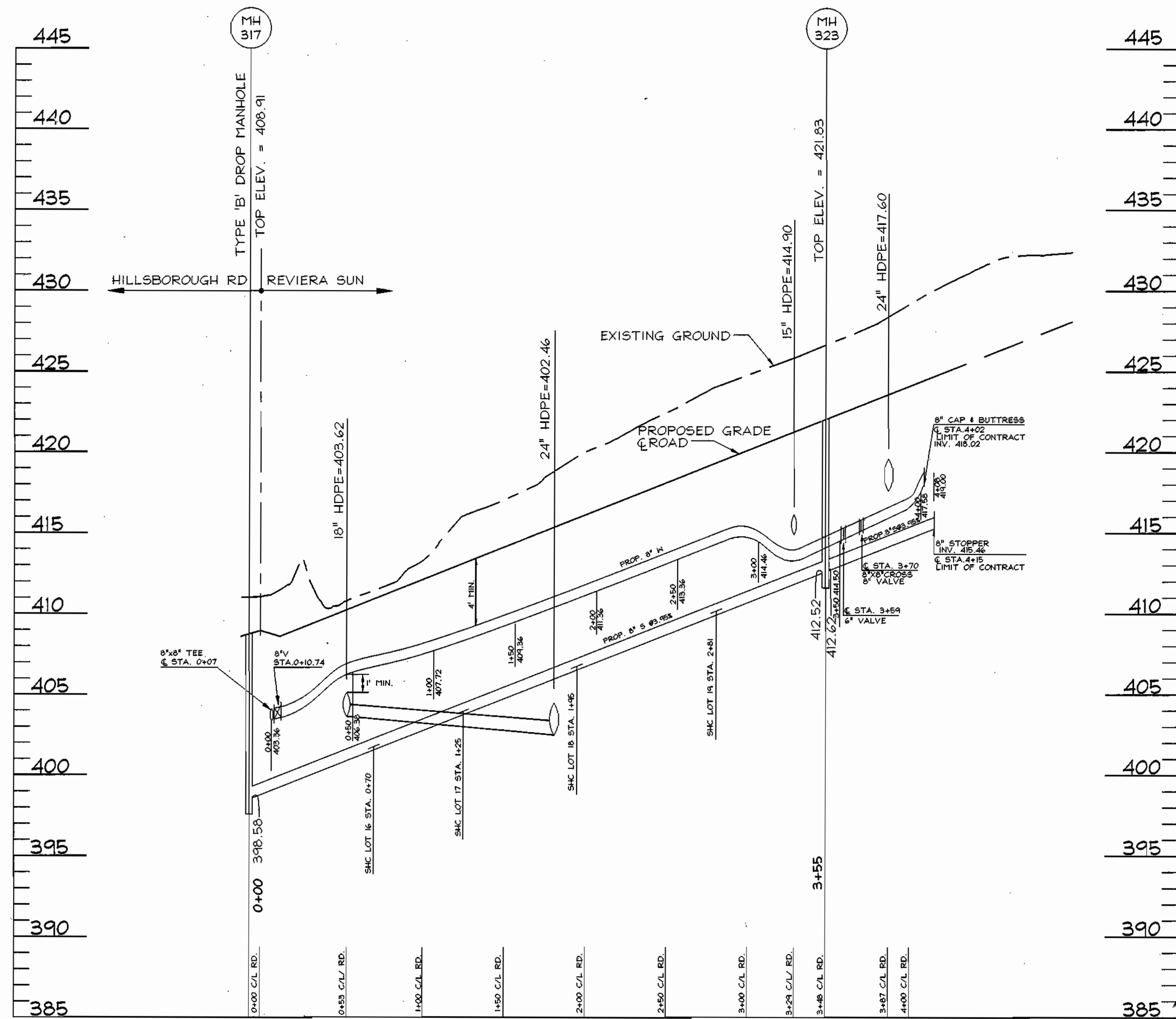


DES:	RJ			
DRN:	RJ			
CHK:	JCO			
DATE:	NOV. 2000			
BY:	RJ	1	COUNTY COMMENTS	01/02/01
	NO.		REVISION	DATE

WATER & SEWER PROFILES
 600' SCALE MAP NO. 25 BLOCK NO. 14

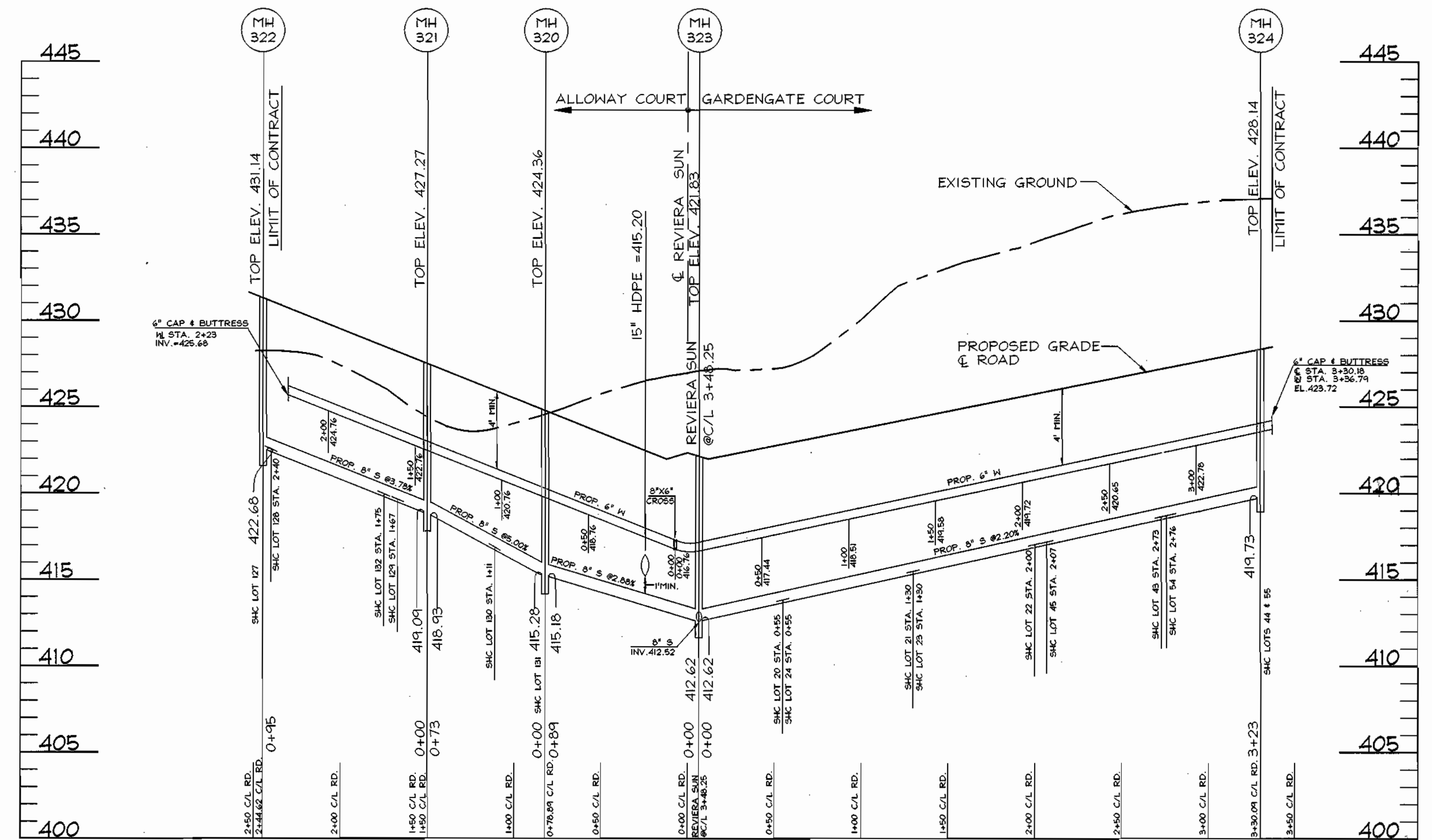
WORTHINGTON FIELDS
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 AND NON-BUILDABLE PARCELS 'A' AND 'B'
 CONTRACT NO. 14-3855-D
 TAX MAP #25, GRID 20 # 31,
 2ND ELECTION DISTRICT
 GRID 2 P/O PARCEL '98'
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 8 OF 9



WATER & SEWER PROFILE

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



WATER & SEWER PROFILE

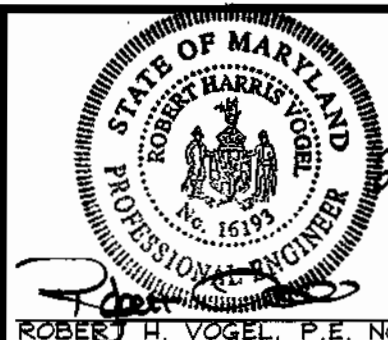
SCALE: 1" = 50' HORIZ.
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DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3966



ROBERT H. VOGEL, P.E. NO. 16195

DES: RJ			
DRN: RJ			
CHK: JCO			
DATE: NOV. 2000			
RJ	1	COUNTY COMMENTS	01/02/01
BY	NO.	REVISION	DATE

WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
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AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31, GRID 2 P/O PARCEL '98'
2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

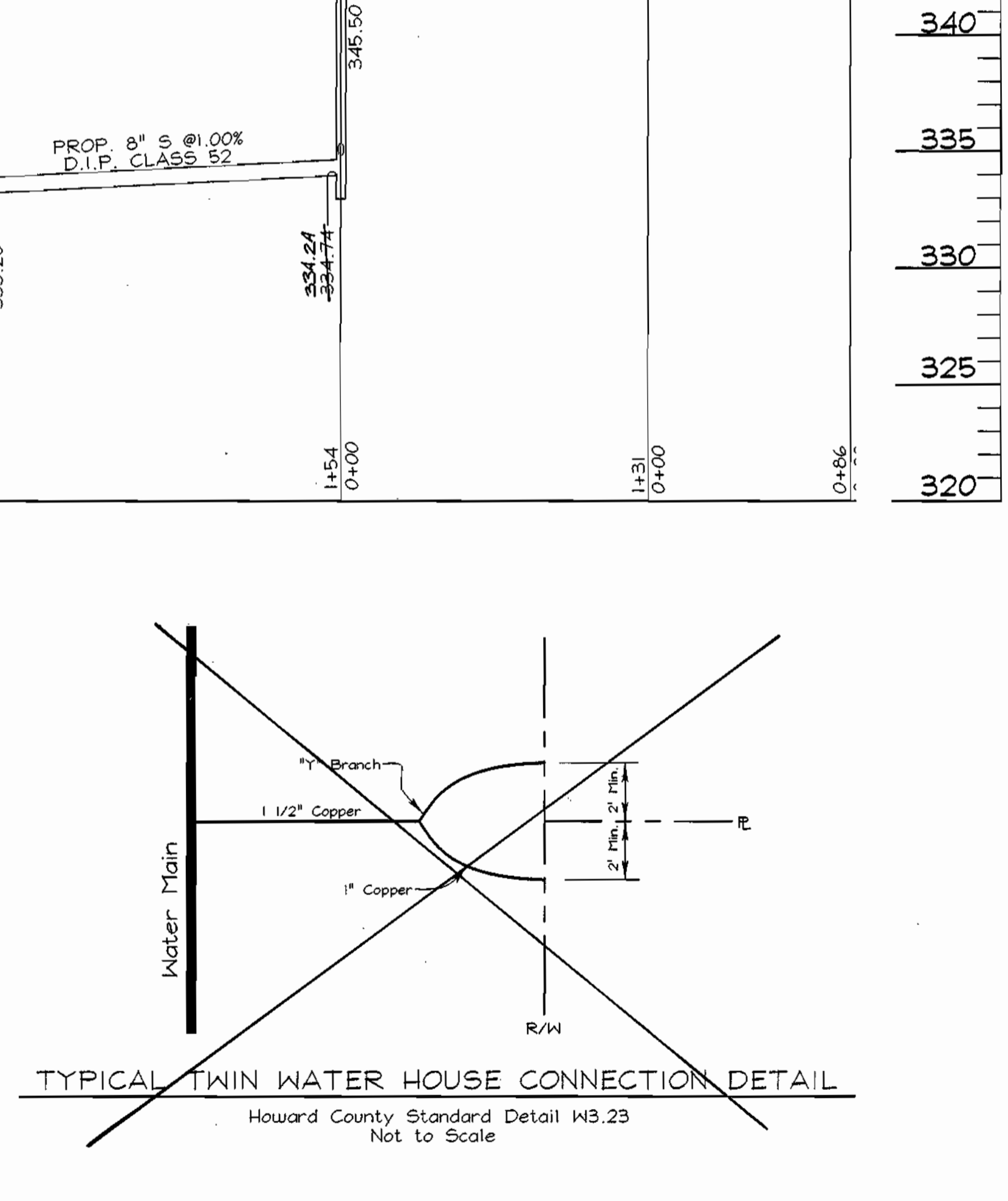
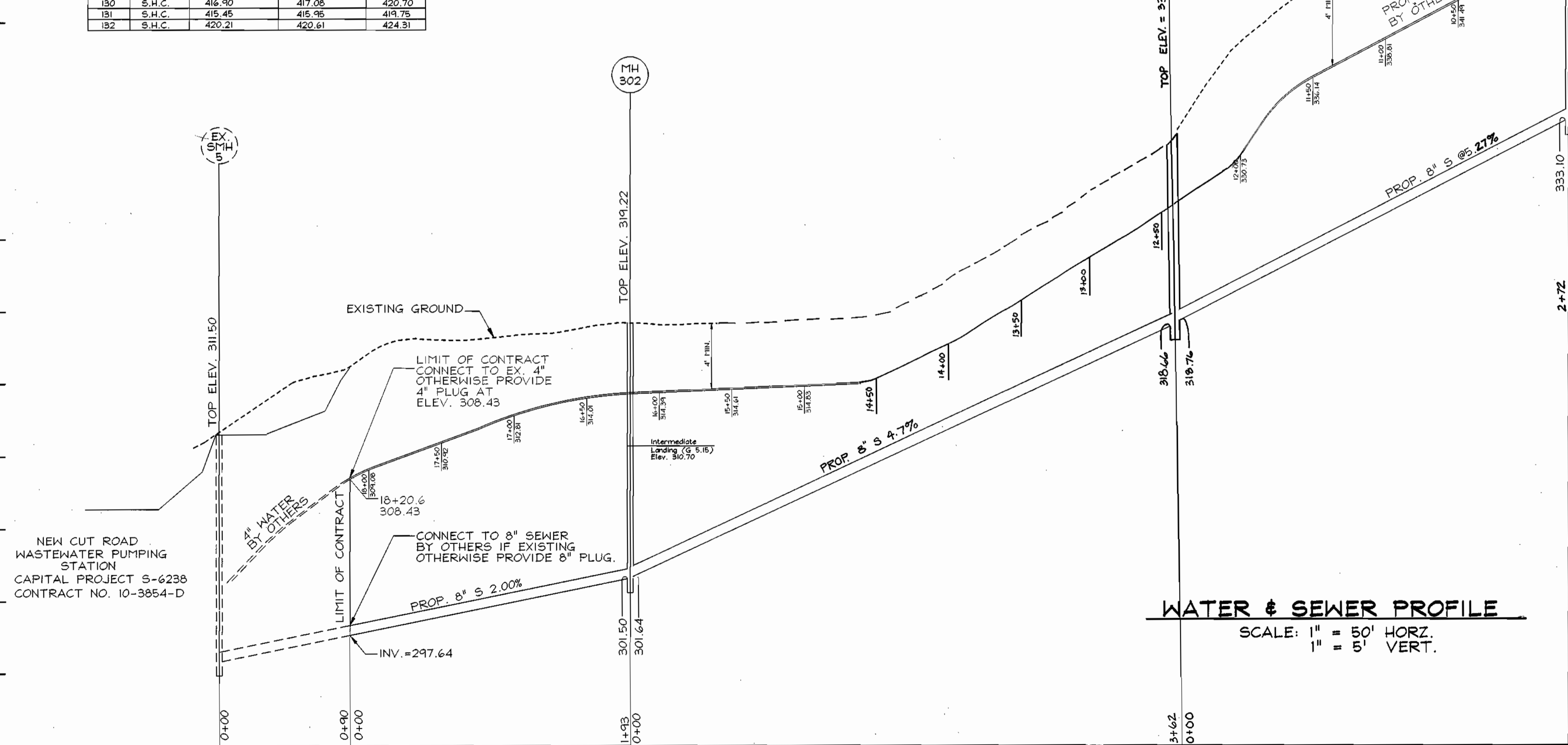
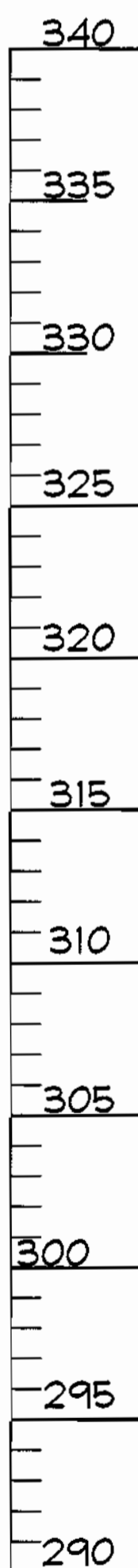
SCALE AS SHOWN

SHEET 9 OF 9

CL STATION	APPURTENANCE	OFFSET
HILLSBOROUGH ROAD		
15+82.82	8"X8" TEE	7.10' RT.
15+82.82	8" V	3.26' RT.
15+67.22	8" V	7.10' RT.
16+22.58	8"X8" TEE	7.24' RT.
16+22.58	8" V	3.74' RT.
21+99.37	8"X8" TEE	7.00' RT.
21+99.37	8" V	3.05' RT.
22+12.50	8"X8" TEE	7.00' RT.
22+12.50	8" V	10.74' RT.
22+16.30	8" V	7.02' RT.
27+77.18	8"X8" CROSS	7.00' RT.
27+77.18	8" V	2.92' RT.
27+77.18	8" V	10.85' RT.
27+72.41	8" V	6.92' RT.
27+81.31	8" V	7.05' RT.
REVIERA SUN		
3+9.07	8" TEE	7' RT.
3+9.07	8" TEE	7' RT.
3+26.84	8" TEE	7' RT.
3+9.07	8" V	3.37' LT.
3+9.07	8" V	3.37' LT.
3+26.84	8" V	3.37' LT.
34+82.54	8"X8" CROSS	7' RT.
34+82.54	8" V	1.66' RT.
34+82.54	8" V	12.40' RT.
34+82.54	8" T	4.04' LT.
34+77.21	8" V	4.04' LT.
ENGLISH MORNING		
2+24.38	1/16" HB	8.36' RT.
2+47.67	1/16" HB	8.48' RT.
2+52.84	1/16" HB	7.07' RT.
5+83.00	8"X8" TEE	5.0' RT.
7+76.64	8" TEE	1.18' RT.
7+76.64	6" V	4.72' RT.

LOT NO.	TYPE	ELEVATION # MAIN	ELEVATION # R/W	M.C.E.
HILLSBOROUGH ROAD				
1	S.H.C.	396.44	396.70	399.24
2	S.H.C.	395.22	395.48	398.98
3	S.H.C.	394.57	394.83	398.37
4	S.H.C.	395.84	394.25	395.19
5	S.H.C.	393.35	393.57	397.47
6	S.H.C.	403.10	403.50	406.50
7	S.H.C.	405.62	406.10	409.08
8	S.H.C.	408.52	408.90	412.22
9	S.H.C.	410.80	411.16	414.36
10	S.H.C.	412.39	412.95	415.75
11	S.H.C.	409.52	410.26	412.82
12	S.H.C.	406.46	407.00	409.98
13	S.H.C.	404.78	405.36	408.34
14	S.H.C.	398.25	398.85	396.35
15	S.H.C.	393.70	394.34	398.00
REVIERA SUN				
16	S.H.C.	401.74	402.38	406.08
17	S.H.C.	403.94	404.59	408.09
18	S.H.C.	406.74	407.38	410.88
19	S.H.C.	414.53	415.16	418.96
GARDENGATE COURT				
20	S.H.C.	413.81	414.03	417.43
21	S.H.C.	415.48	415.68	419.18
22	S.H.C.	417.04	417.22	420.82
23	S.H.C.	415.48	415.88	419.48
24	S.H.C.	413.81	414.23	417.83
ENGLISH MORNING				
25	S.H.C.	383.44	383.76	387.86
26	S.H.C.	382.46	382.78	386.28
27	S.H.C.	384.54	384.86	388.36
28	S.H.C.	385.95	386.29	389.89
29	S.H.C.	387.28	387.60	391.10
30	S.H.C.	388.70	389.02	392.52
31	S.H.C.	390.05	390.37	394.27
32	S.H.C.	391.04	391.84	395.79
33	S.H.C.	392.42	392.20	396.20
34	S.H.C.	391.42	392.22	396.12
35	S.H.C.	391.42	392.36	396.36
36	S.H.C.	391.58	392.54	396.64
37	S.H.C.	390.55	391.11	395.01
38	S.H.C.	389.40	389.88	393.88
39	S.H.C.	388.11	388.59	392.09
40	S.H.C.	386.45	386.93	390.43
41	S.H.C.	384.54	385.02	388.52
42	S.H.C.	382.46	382.94	386.44
GARDENGATE COURT				
43	S.H.C.	418.64	418.82	422.64
44	S.H.C.	419.90	420.08	423.64
45	S.H.C.	417.19	417.59	421.19
54	S.H.C.	418.71	419.11	422.81
55	S.H.C.	419.90	420.14	423.90
ALLOWAY COURT				
126	S.H.C.	421.89	422.29	427.59
127	S.H.C.	422.85	422.95	426.45
128	S.H.C.	422.86	422.86	424.06
129	S.H.C.	419.30	420.10	423.80
130	S.H.C.	416.30	417.05	420.70
131	S.H.C.	415.45	415.95	419.75
132	S.H.C.	420.21	420.61	424.31

MANHOLE NO.	TYPE	LOCATION	CL ROAD STATION	OFFSET	TOP ELEVATION
301	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 578237.4085 E 1364775.5395			309.71
302	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 578138.4896 E 1370083.8477			319.22
303	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577482.4200 E 1370410.9500			323.56
304	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577740.5552 E 1370533.1456			351.06
305	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577637.0830 E 1370647.1974			351.06
306	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577541.5748 E 1370553.4287			366.54
307	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577463.5149 E 1370516.4181			364.00
308	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577537.7547 E 1370523.6385			364.00
309	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577265.1479 E 1370517.8968			367.34
310	STD. PRECAST MH HO. CO. STD. DET. G5.12	ENGLISH MORNING LANE	2+51.99	2.53' LT.	392.24
311	STD. PRECAST MH HO. CO. STD. DET. G5.12	ENGLISH MORNING LANE	6+53.09	5.0' LT.	403.44
312	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577432.84 E 1369385.35	7+75.45	10.98' LT.	400.55
313	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577574.4574 E 1370743.7633			353.79
314	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577427.1396 E 1370970.6736			400.33
315	STD. PRECAST MH HO. CO. STD. DET. G5.12	N 577168.0261 E 137106.0117			408.00
316	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	23+97.09	7.00' LT.	412.95
317	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	22+26.50	7.00' LT.	408.91
318	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	21+8.62	7.61' RT.	406.11
319	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	20+8.58	10.65' RT.	405.64
320	STD. PRECAST MH HO. CO. STD. DET. G5.12	REVIERA SUN	0+78.89	10.41' LT.	424.36
321	STD. PRECAST MH HO. CO. STD. DET. G5.12	ALLOWAY COURT	1+50	8.00' RT.	427.27
322	STD. PRECAST MH HO. CO. STD. DET. G5.12	ALLOWAY COURT	2+44.62	4.88' RT.	431.14
323	STD. PRECAST MH HO. CO. STD. DET. G5.12	REVIERA SUN	3+48.25	7.00' LT.	421.83
324	STD. PRECAST MH HO. CO. STD. DET. G5.12	GARDENGATE COURT	3+30.09	7.00' LT.	428.14
325	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	26+76.30	13.85' LT.	421.83
326	STD. PRECAST MH HO. CO. STD. DET. G5.12	HILLSBOROUGH ROAD	27+62.98	6.98' LT.	431.69



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

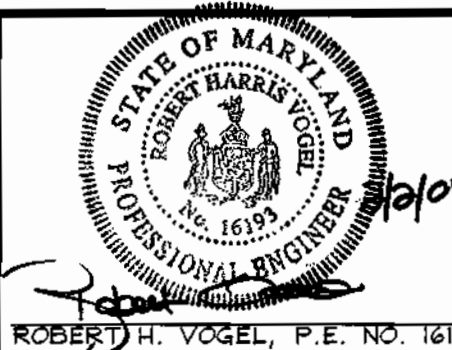
Robert J. Bennett 02-02-01
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Chris Dammann 2/6/01
CHIEF, DEVELOPMENT ENGINEERING DIVISION

VOGEL & ASSOCIATES
ENGINEERS SURVEYORS PLANNERS

3691 Park Avenue, Suite 101 • Elkridge City, Maryland 21043
Tel 410.461.5828 Fax 410.465.3995



DES:	RJ		
DRN:	RJ		
CHK:	RHV	JCD 3 DELETE TWIN WATER HOUSE CONNECTION	1/27/03
		JT 2 REVISE PROFILE	12/17/01
		RJ 1 COUNTY COMMENTS	01/02/01
DATE:	DEC. 2000	BY NO.	REVISION
			DATE

WATER & SEWER PROFILES

600' SCALE MAP NO. 25 BLOCK NO. 14

WORTHINGTON FIELDS
PHASE 1 LOTS 1-42 AND 145-148
AND NON-BUILDABLE PARCELS 'A' AND 'B'
CONTRACT NO. 14-3855-D

TAX MAP #25, GRID 20 & #31,
2ND ELECTION DISTRICT

GRID 2 P/O PARCEL '98'
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 5 OF 9