

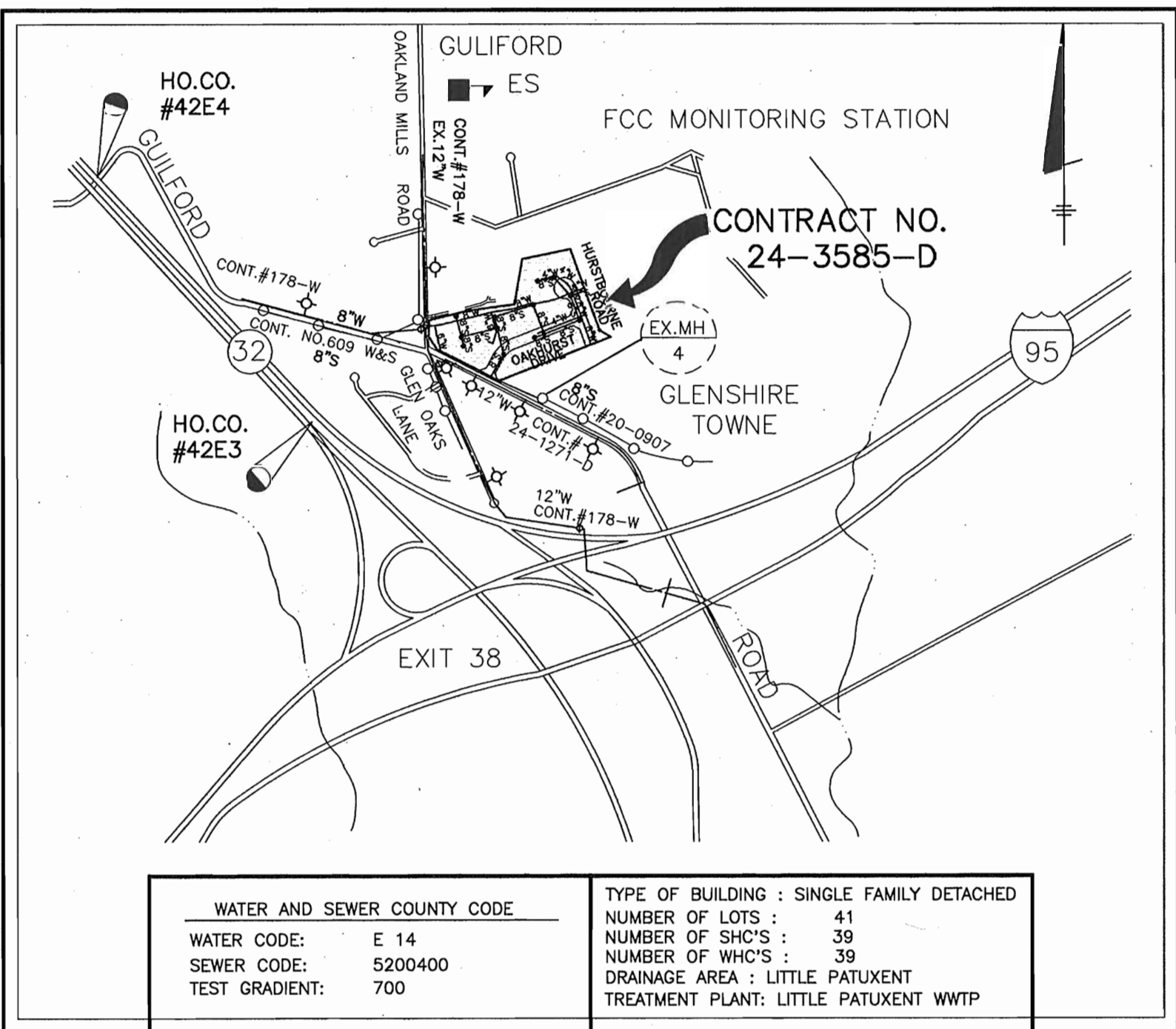
SHEET INDEX	
NO.	DESCRIPTION
1	WATER AND SEWER TITLE SHEET
2	PLAN OF WATER AND SEWER MAINS
3	PROFILES OF WATER AND SEWER MAINS

GENERAL NOTES

OAKHURST WATER AND SEWER CONSTRUCTION PLANS CONTRACT NO. 24-3585-D

SEWER AS-BUILT

FROM:	TO:	DIST.	FROM:	TO:	DIST.
M-12	Lot 6	11'	M-6	Lot 26	83'
M-12	Lot 5	26'	M-6	Lot 26	69'
M-12	Lot 4	35'	M-6	Lot 24	55'
M-12	Lot 3	61'	M-7	Lot 24	168'
M-12	Lot 2	81'	M-7	Lot 25	146'
M-12	Lot 1	36'	M-7	Lot 26	129'
M-12	End of Sub 8" SEWER	180'	M-7	Lot 27	109'
M-11	End of Sub 8" SEWER	106'	M-7	Lot 28	92'
M-11	Lot 1	53'	M-7	Lot 29	76'
M-11	Lot 2	38'	M-7	Lot 30	60'
M-11	Lot 3	20'	M-7	Lot 23	57'
M-11	Lot 4	12'	M-7	Lot 22	71'
M-11	Lot 5	24'	M-7	Lot 21	89'
M-11	Lot 6	45'	M-7	Lot 20	108'
M-11	Lot 7	21'	M-7	Lot 19	133'
M-11	Lot 8	42'	M-7	Lot 18	163'
M-11	Lot 9	63'	F.H.	End of Sub 8" SEWER	132'
M-11	Lot 10	82'	M-8	Lot 18	75'
M-11	Lot 11	104'	M-8	Lot 21	78'
M-11	Lot 12	123'	M-8	Lot 32	89'
M-11	Lot 13	145'	M-8	Lot 33	30'
M-3	Lot 13	36'	M-8	Lot 34	104'
M-3	Lot 12	58'	M-9	Lot 34	20'
M-3	Lot 11	77'	M-9	Lot 33	48'
M-3	Lot 10	99'	M-9	Lot 32	64'
M-3	Lot 9	118'	M-9	Lot 31	85'
M-3	Lot 8	139'	M-9	Lot 30	23'
M-3	Lot 7	162'	M-9	Lot 33	24'
M-13	Lot 14	35'	M-9	Lot 37	36'
M-13	Lot 15	40'	M-9	Lot 36	55'
M-13	Lot 16	83'	M-9	Lot 35	74'
M-13	Lot 17	68'	M-10	Lot 35	21'
M-6	Lot 17	32'	M-10	Lot 36	32'
M-6	Lot 16	33'	M-10	Lot 37	51'
M-6	Lot 15	43'	M-10	Lot 38	68'
M-6	Lot 14	63'	M-10	Lot 39	88'
M-6	Lot 18	42'			
M-6	Lot 19	66'			
M-6	Lot 20	90'			
M-6	Lot 21	110'			
M-6	Lot 22	129'			
M-6	Lot 23	144'			
M-6	Lot 24	159'			
M-6	Lot 25	136'			
M-6	Lot 26	119'			
M-6	Lot 27	101'			



WATER AND SEWER COUNTY CODE	TYPE OF BUILDING: SINGLE FAMILY DETACHED
WATER CODE: E 14	NUMBER OF LOTS: 41
SEWER CODE: S200400	NUMBER OF SHOTS: 39
TEST GRADIENT: 700	NUMBER OF WH'S: 39
	DRAINAGE AREA: LITTLE PATUXENT
	TREATMENT PLANT: LITTLE PATUXENT WWTP

VICINITY MAP
SCALE: 1" = 600'

BENCH MARKS
HORIZONTAL: NAD 83
HOWARD COUNTY CONC. MON. 42E3
N. 546528.8416 E. 1357894.375
HOWARD COUNTY CONC. MON. 42E4
N. 544851.1973 E. 1359466.401
VERTICAL: NAD 27
HOWARD COUNTY CONC. MON. 2241013
ELEVATION 306.556

WATER AS-BUILT

FROM:	TO:	DIST.	FROM:	TO:	DIST.	FROM:	TO:	DIST.	FROM:	TO:	DIST.	FROM:	TO:	DIST.	FROM:	TO:	DIST.
M-2	1/2" DRAIN	33'	M-7	Lot 8	28'	M-13	1/2" DRAIN	31'	M-6	Lot 23	130'	M-7	Lot 22	77'	M-8	END 8" VALVE	74'
M-2	Lot 6	42'	M-7	Lot 9	5'	M-6	1/2" DRAIN	35'	M-6	Lot 28	125'	M-7	Lot 23	46'	M-8	8" VALVE 7+10	19'
M-2	Lot 5	42'	M-7	Lot 10	36'	M-13	Lot 14	33'	M-6	Lot 27	94'	M-7	6" F.H. VALVE	22'	M-8	8" VALVE 0+03	19'
M-2	Lot 4	45'	M-7	Lot 11	5'	M-13	Lot 15	36'	M-6	Lot 26	90'	M-7	6" VALVE	15'	M-8	4" VALVE 0+05	23'
M-2	Lot 3	47'	M-7	Lot 12	35'	M-13	Lot 16	68'	M-6	Lot 25	63'	M-7	8" VALVE 1+26	16'	M-8	6" VALVE	23'
M-2	Lot 2	72'	M-7	Lot 13	5'	M-13	Lot 17	62'	M-6	Lot 24	60'	M-7	8" VALVE 1+22	19'	M-8	Lot 31	84'
M-2	Lot 1	78'	M-4	Lot 13	47'	M-6	Lot 17	31'	M-7	Lot 30	65'	F.H.	8" VALVE 1+22	26'	M-8	Lot 32	85'
M-2	6" VALVE	108'	M-4	6" VALVE	23'	M-6	Lot 16	31'	M-7	Lot 29	82'	F.H.	8" VALVE 1+26	28'	M-8	Lot 33	99'
1/2" DRAIN	Lot 6	10'	M-4	8" VALVE	32'	M-6	Lot 15	48'	M-7	Lot 28	86'	F.H.	6" VALVE	23'	M-8	Lot 34	102'
1/2" DRAIN	Lot 5	10'	M-4	8" VALVE 3+10	30'	M-6	Lot 14	50'	M-7	Lot 27	117'	F.H.	6" F.H. VALVE	7'	M-9	Lot 34	35'
1/2" DRAIN	Lot 4	34'	M-4	8" VALVE	34'	M-6	Lot 18	49'	M-7	Lot 26	121'	F.H.	END 8" VALVE	143'	M-9	Lot 33	36'
1/2" DRAIN	Lot 3	39'	M-4	6" VALVE	79'	M-6	Lot 19	80'	M-7	Lot 25	139'	M-7	END 8" VALVE	125'	M-9	Lot 32	74'
1/2" DRAIN	Lot 2	73'	M-4	8" VALVE 3+10	83'	M-6	Lot 20	85'	M-7	Lot 24	159'	F.H.	8" VALVE 0+03	117'	M-9	Lot 31	78'
1/2" DRAIN	Lot 1	73'	M-4	8" VALVE 3+10	85'	M-6	Lot 21	115'	M-7	Lot 18	134'	F.H.	8" VALVE	120'	M-9	Lot 30	21'
1/2" DRAIN	6" VALVE	114'	M-4	8" VALVE 3+10	87'	M-6	Lot 22	122'	M-7	Lot 19	119'	F.H.	8" VALVE 7+10	119'	M-9	Lot 38	21'
1/2" DRAIN	6" VALVE	43'	M-4	6" F.H. VALVE	83'	M-6	Lot 23	159'	M-7	Lot 20	114'	F.H.	4" VALVE 0+05	124'	M-9	Lot 37	43'
M-11	Lot 7	82'	F.H.	6" F.H. VALVE	19'	M-6	Lot 30	149'	M-7	Lot 21	81'	F.H.	END 8" VALVE	143'	M-9	Lot 36	48'

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENTS

Cheryl Simmons
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John P. Lambert
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE
IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE
HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER
ROAD CONSTRUCTION PLANS F-97-107

ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" WATER	1051 LF	872 LF	CL 52	Atlantic States / US Filter
6" WATER	289 LF	302 LF	CL 52	Atlantic States / US Filter
4" WATER	187 LF	389 LF	CL 52	Atlantic States / US Filter
8" x 8" TEE	1	1 EA.	MU	Union Foundry / US Filter
EX. PIPE	1	1 EA.	MU	Union Foundry / US Filter
8" x 8" CROSS	2	2 EA.	MU	Union Foundry / US Filter
8" VALVES	8	8 EA.	Gate	Mueller Co. / US Filter
6" VALVES	3	3 EA.	Gate	Mueller Co. / US Filter
4" VALVES	1	1 EA.	Gate	Mueller Co. / US Filter
1/2" DRAIN	2	2 EA.	Gate	Mueller Co. / US Filter
FIRE HYDRANTS	2	2 EA.	Gate	Mueller Co. / US Filter
1" WHC	157 LF	476 LF	Type K	Reading Tube / US Filter
1" WHC	566 LF	530 LF	Type K	Reading Tube / US Filter
8" PLUG & BUTTRESS	2	1 EA.	MU	Union Foundry / US Filter
6" PLUG & BUTTRESS	2	1 EA.	MU	Union Foundry / US Filter
4" CAP & BUTTRESS	1	1 EA.	MU	Union Foundry / US Filter
2" CAP & BUTTRESS	2	2 EA.	MU	Union Foundry / US Filter
8" SEWER (PVC)	1709 LF	1709 LF	SDR 35	J.H. Manufacturing / US Filter
6" SEWER (DIP)	194 LF	194 LF	CL 52	Atlantic States / US Filter
MANHOLES	13	13 EA.	Precast	Atlantic Concrete
12" MANHOLE IN EXCESS OF 6' MIN. DEPTH	94 LF			
12" x 24" TAPPING SLAV	1039 LF	1192 LF	SDR	J.H. Manufacturing / US Filter
		1 EA.	MU	Mueller Co. / US Filter

NAME OF UTILITY CONTRACTOR: C.J. Miller Inc.
SURVEY AND DRAFTING AS-BUILT DATE: 11-20-97

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	TSA GROUP, INC. planning • architecture • engineering • surveying 8480 Baltimore National Pike Suite 418 Ellicott City, Maryland 21043	DES: GWF	DRN: JR	CHK: GWF	DATE: 1-30-97	DATE: 4-22-97	BY NO.	REVISIONS	DATE	600 SCALE MAP NO. 42	BLOCK 17	SCALE AS SHOWN	SHEET 1 OF 3
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WATER & SEWER TITLE SHEET

OAKHURST SECTION 1 - AREA 1 LOTS 1 THRU 41 6th ELECTION DISTRICT

CONTRACT NO. 24-3585-D

Plotted: March 20, 1997
Acad Dwg: 709351

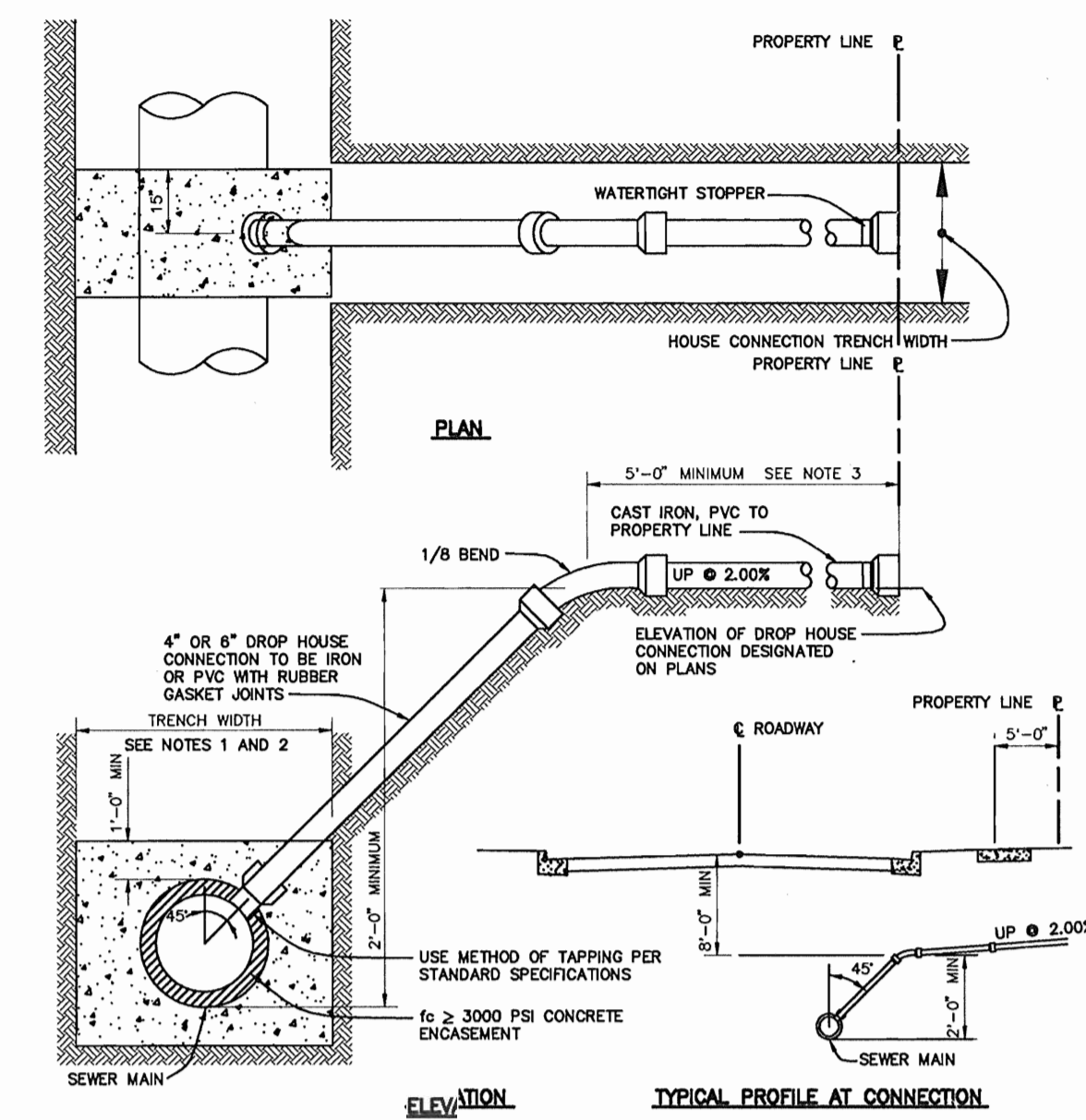
WHC LOCATION DATA		
PRIVATE COURT		
LOT NO.	COORDINATE NORTH/EAST	
1/2	N545374.43 E1360476.56	
3/4	N545335.97 E1360487.60	
5/6	N545297.87 E1360499.46	
7	N545444.96 E1360590.14	
8/9	N545457.35 E1360618.81	
10/11	N545466.69 E1360657.86	
12/13	N545473.49 E1360697.63	
OAKHURST DRIVE		
LOT NO.	CL STATION	OFFSET
14/15	N545348.74 E1360963.44	
16/17	N545362.76 E1361000.09	
HURSTBORNE DRIVE		
LOT NO.	COORDINATE NORTH/EAST	
31/32	N545592.15 E1361022.48	
33/34	N545635.02 E1361020.52	
35	N545671.88 E1360957.35	
36/37	N545677.44 E1360979.94	
38/39	N545687.00 E1361018.77	

NOTE: 1) FOR SEWER HOUSE CONNECTION LOCATIONS, SEE PROFILES, SHEET NO. 3

CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES IN OAKLAND MILLS ROAD PRIOR TO CONSTRUCTION OF 8" WATER MAIN.

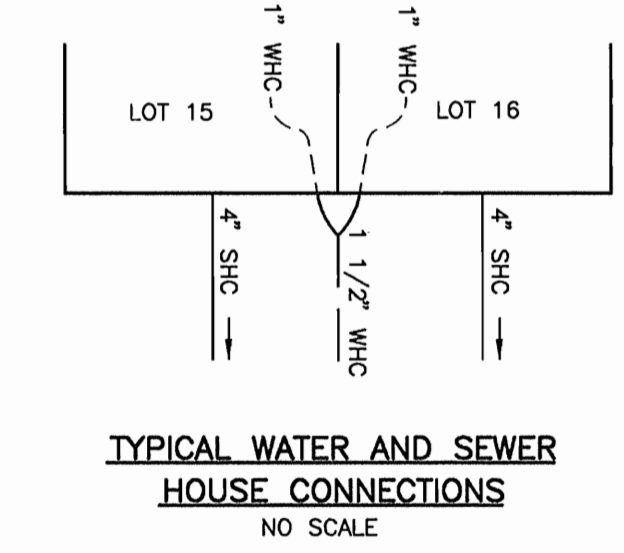
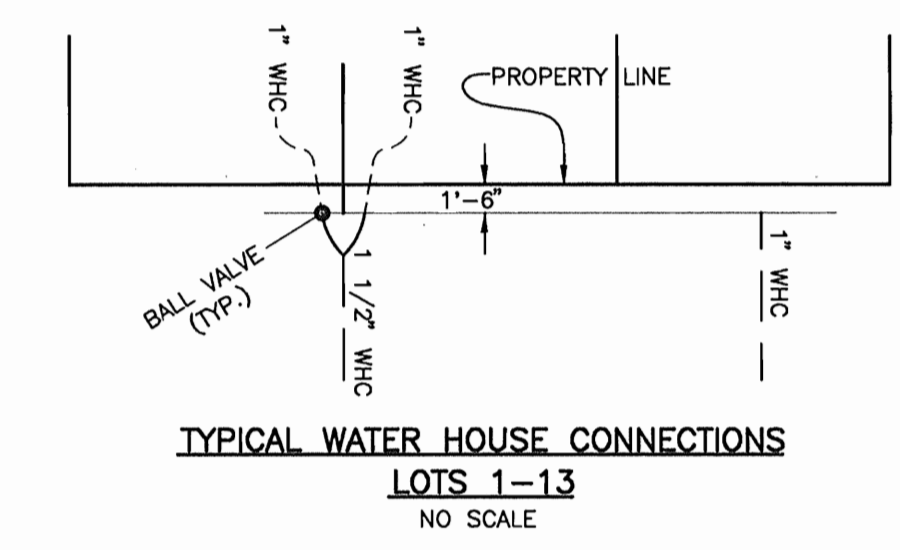
CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES IN GUILFORD ROAD PRIOR TO CONSTRUCTION OF 8" SEWER MAIN.

PLAN
SCALE: 1" = 50'



NOTES:
1. S.H.C. TO 8" THRU 12" SEWER MAIN USE SADDLE
2. S.H.C. TO PROPOSED SEWER MAINS USE TEES, SEE VOLUME IV, STANDARD DETAIL S2.12
3. S.H.C. AT PROPERTY LINE SHALL TERMINATE WITH MINIMUM PIPE LENGTH OF 5'-0". DETAIL IS NOT APPLICABLE FOR A SHORTER LENGTH THAN 5'-0" AT THE PROPERTY LINE.

4" & 6" DROP HOUSE CONNECTION TO SEWER MAIN
NOT TO SCALE
HOWARD COUNTY DESIGN MANUAL - VOL II
WATER AND SEWER - APPENDIX 13



SEWER MANHOLE LOCATION DATA		
NO.	LOCATION	OFFSET
1	CL STA. 0+18 OAKHURST DRIVE	7' RT.
2	CL STA. 1+67 OAKHURST DRIVE	7' RT.
3	N 545411.3151 E 1360762.0083	-----
4	N 545466.1102 E 1360746.3079	-----
5	N 545530.5644 E 1360929.6235	-----
6	CL STA. 3+90 OAKHURST DRIVE	7' RT.
7	CL STA. 5+72 OAKHURST DRIVE	7' RT.
8	CL STA. 1+23.78 HURSTBORN DR	16' LT.
9	N 545665.2049 E 1361024.1334	-----
10	N 545647.8120 E 1360953.7552	-----
11	N 545362.5852 E 1360591.9696	-----
12	N 545320.2872 E 1360604.0592	-----
13	CL STA. 3+40 OAKHURST DRIVE	7' RT.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth Bannister 6-6-97
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael D. ... 6/12/97
CHIEF, DEVELOPMENT ENGINEERING DIVISION

TSA GROUP, INC.
planning • architecture • engineering • surveying
8480 Baltimore National Pike Suite 418
Ellicott City, Maryland 21043

Donald M. ...



DES:	GWF				
DRN:	JR/EGG				
CHK:	GWF				
DATE:	1-30-97	BY:	NO.	REVISIONS	DATE
	4-22-97				

PLAN OF
WATER & SEWER MAINS

600 SCALE MAP NO. 42
BLOCK 17

OAKHURST
SECTION 1 - AREA 1
LOTS 1 THRU 41
6th ELECTION DISTRICT

CONTRACT NO. 24-3585-D

SCALE
1" = 50'
SHEET
2 OF 3

