
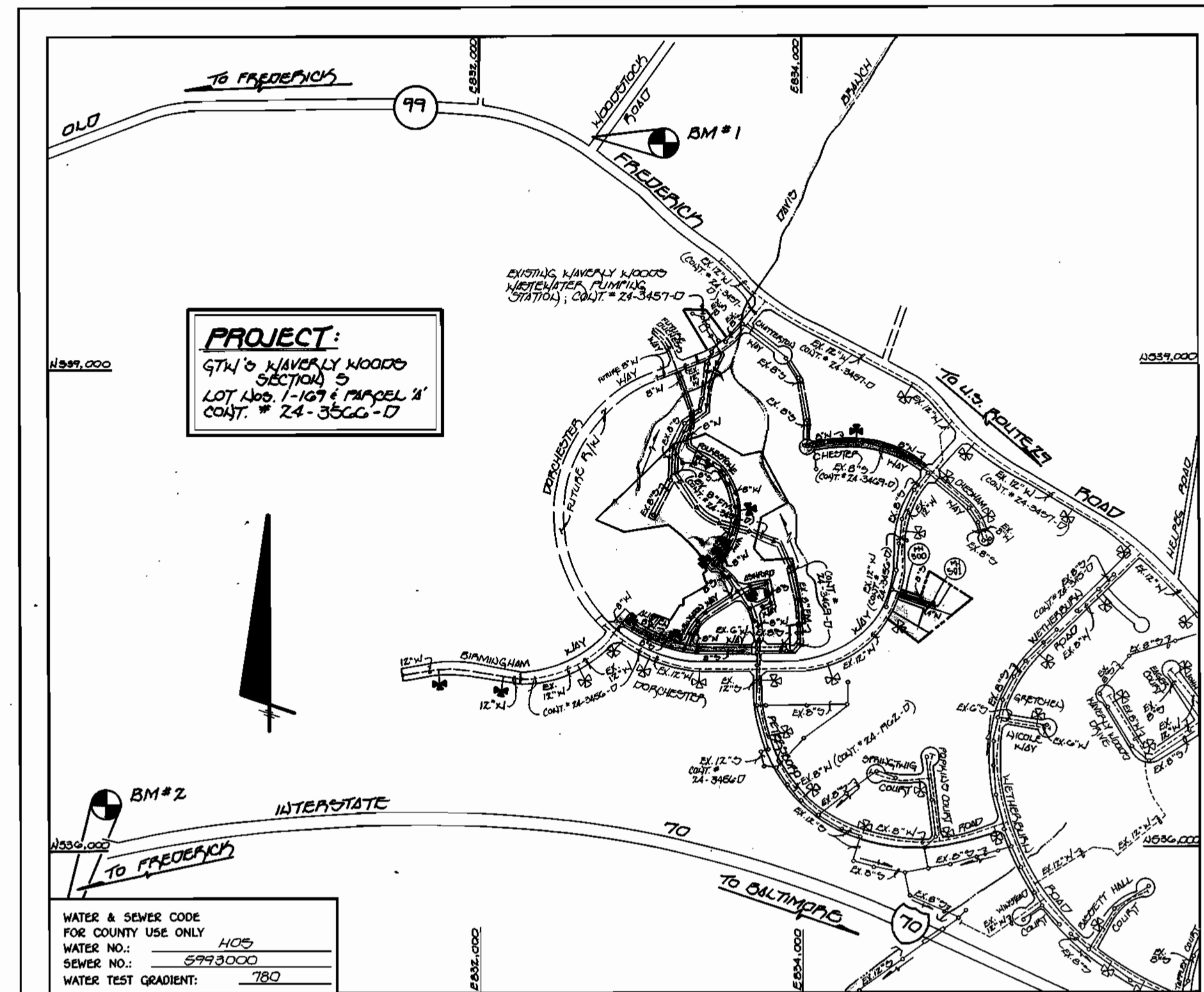


**GENERAL NOTES**

- 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. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- 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 (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - STATE HIGHWAY ADMINISTRATION - 531-5533
  - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
  - MESS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 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.
- 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.
- T.B. DENOTES TEST BORING.
- 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 G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE 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 D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, @ (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 MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(a) OF THE HOWARD COUNTY CODE.



TYPE OF BUILDING: SINGLE FAMILY RESIDENTIAL  
 NUMBER OF LOTS & PARCELS: 170 (155 BUILDABLE)  
 NO. OF WATER HOUSE CONNECTIONS: 123  
 NO. OF SEWER HOUSE CONNECTIONS: 124  
 DRAINAGE AREA: LITTLE PATUXENT  
 TREATMENT PLANT: PATUXENT WASTEWATER  
 TREATMENT PLANT VIA THE PATUXENT WASTEWATER STATION  
 NO. OF NHCS FOR FUTURE LOTS: 11  
 NO. OF NHCS FOR FUTURE LOTS: 4  
 \* THE CONNECTIONS FOR FUTURE LOTS HAVE BEEN PROVIDED IN ADDITION TO THOSE LISTED ABOVE.

**VICINITY MAP**

SCALE: 1"=600'

PLAN REFERENCE NUMBERS:  
 P- 90-07  
 F- 96-179

QUANTITIES					
ITEM	ESTIMATED	FINAL		AS-BUILT	SUPPLIER/MANF.
		QUANTITIES	TYPE		
8" SDR35	3,427 L.F.	3135 L.F.	PVC SDR-35	BRS/J-M MANF.	
MANHOLES	31 EACH	33 EA	PRE-CAST	ATLANTIC CONC.	
4" SDR35	3,986 L.F.	4681 L.F.	PVC SDR-35	B.R. SUPPLY/J-M	
8" SDR35 (C.I.P.)	800 L.F.	552 L.F.	TYTON CL-52	GRIFFIN PIPE PROD.	
12" WATER	741 L.F.	693 L.F.	TYTON CL-52	GRIFFIN PIPE PROD.	
8" WATER	4,490 L.F.	4397 L.F.	TYTON CL-52	"	
6" WATER	215 L.F.	194 L.F.	TYTON CL-52	"	
4" WATER	197 L.F.	203 L.F.	TYTON CL-52	"	
PIPE HYDRANTS	10 EACH	10 EA	ORANGE	BRS/MULLER CO.	
1 1/2" NHCS	1,329 L.F.	1,628.5 L.F.	SOFT 'K'	BRS/HOWEL METAL	
1" NHCS	2,031 L.F.	1,753 L.F.	SOFT 'K'	"	
3/4" NHCS	338 L.F.	324 L.F.	SOFT 'K'	"	
BLKHOFF ASSEMBLY	1 EACH	1 EA	PRE-CAST	ATLANTIC CONC.	
8" x 8" ORADO	1 EACH	1 EA	CL-52	GRIFFIN PIPE	
12" x 6" TEE	2 EACH	2 EA	CL-52	"	
8" x 6" TEE	6 EACH	6 EA	CL-52	"	
8" x 6" TEE	7 EACH	8 EA	CL-52	"	
12" VALVE	1 EACH	1 EA	GATE	BRS/MULLER CO.	
8" VALVE	14 EACH	14 EA	GATE	"	
6" VALVE	9 EACH	10 EA	GATE	"	
8" 1/2" HD	10 EACH	8 EA	CL-52	GRIFFIN PIPE	
8" 1/4" HD	5 EACH	5 EA	"	"	
8" 1/2" HD	4 EACH	2 EA	"	"	
12" PLUG & BUTTRESS	1 EACH	1 EA	"	"	
8" PLUG & BUTTRESS	4 EACH	4 EA	"	"	
6" PLUG & BUTTRESS	1 EACH	1 EA	"	"	

NAME OF UTILITY CONTRACTOR: CONSOLIDATED CONSTRUCTION SERVICES (CCS)  
 SURVEY & DRAFTING DIVISION AS-BUILT DATE:

**CONTRACT No. 24-3566-D**  
**G.T.W.'S WAVERLY WOODS**  
**SECTION 5**  
**LOT NOS. 1-169 AND PARCEL "A"**  
**WATER AND SEWER MAIN EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**

**BENCH MARKS**

BM #1 - HOWARD COUNTY CONTROL STATION # 1012 (LIND '83)  
 (NEAR THE INTERSECTION OF MARYLAND ROUTE 99 & WOODSTOCK ROAD)  
 N) 501,060.177  
 E) 1,345,330.758  
 ELEV. - 445.571

BM #2 - HOWARD COUNTY CONTROL STATION # 1021 (LIND '83)  
 (NEAR THE INTERSECTION OF U.S. ROUTE 40 & MARYLOTTVILLE ROAD)  
 N) 593,250.932  
 E) 1,340,192.711  
 ELEV. - 509.924

AS BUILTS  
 SEWER / WATER

CONTRACT NO. 24-3566-D  
 G.T.W.'S WAVERLY WOODS  
 SECTION 5  
 LOT NOS. 1-169 AND PARCEL "A"  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
*Cheryl J. ...* 01-23-97  
 U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED: *John R. ...* 1/22/97  
 HOWARD SOIL CONSERVATION DISTRICT DATE

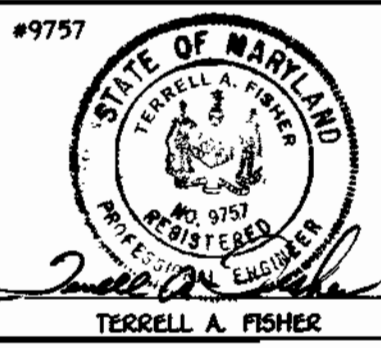
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND UNDER F-96-179.

Michael J. McCann for Waverly Development Corp. 10/14/96  
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Michael A. ... 11/19/97  
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 ... 1/24/97  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK  
 10272 Baltimore National Pike  
 Ellicott City, Maryland 21042  
 (410) 461-2865



DES: M.J.M.				
DRWN: J.M.H.				
CHK: P.W.K.	F.C.C.	REVISE QUANTITIES TO INCLUDE 8" SDR35 (C.I.P.)	7/97	
DATE:	F.C.C.	REVISE SHEET NUMBERS	7/97	
BY NO.		REVISION	DATE	

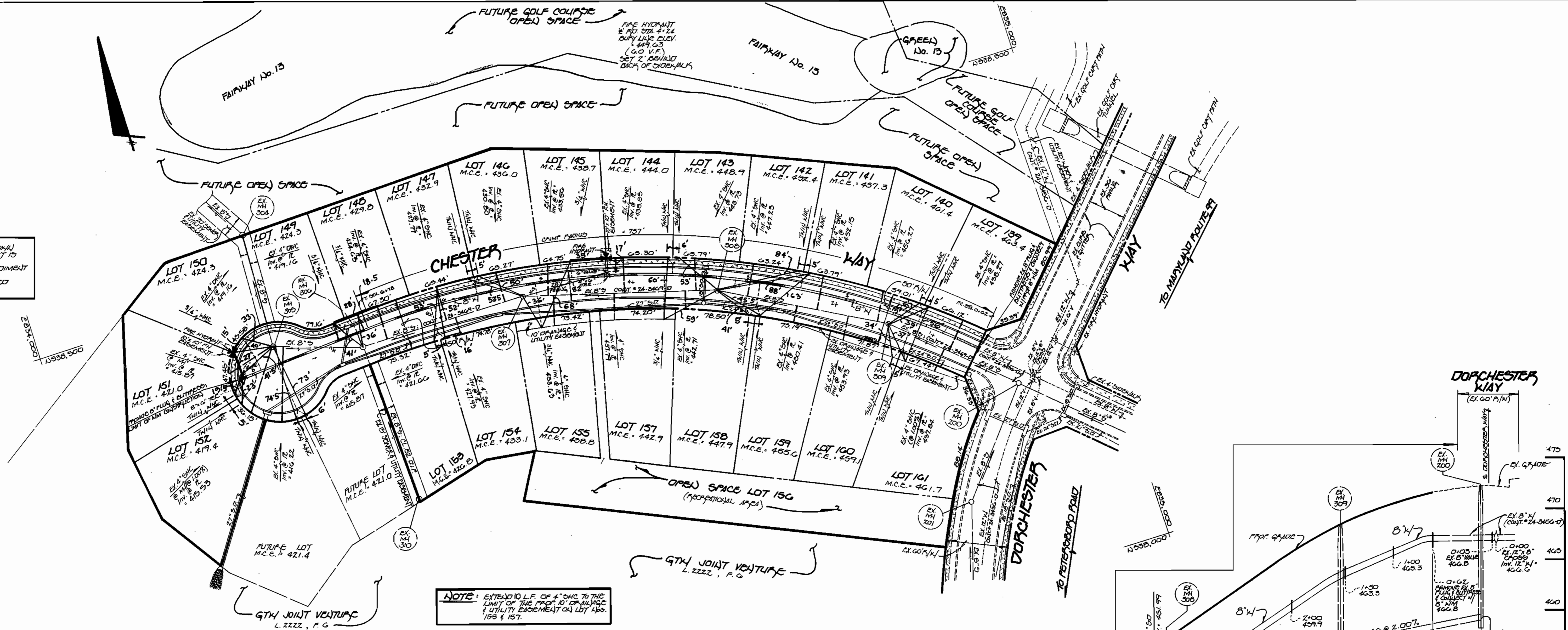
TITLE SHEET  
 600' SCALE MAP NO. 16 BLOCK NO. 6 AND 12

G.T.W.'S WAVERLY WOODS  
 SECTION 5  
 LOT NOS. 1-169 AND PARCEL "A"  
 CONTRACT NO. 24-3566-D  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
 SHEET 1 OF 10



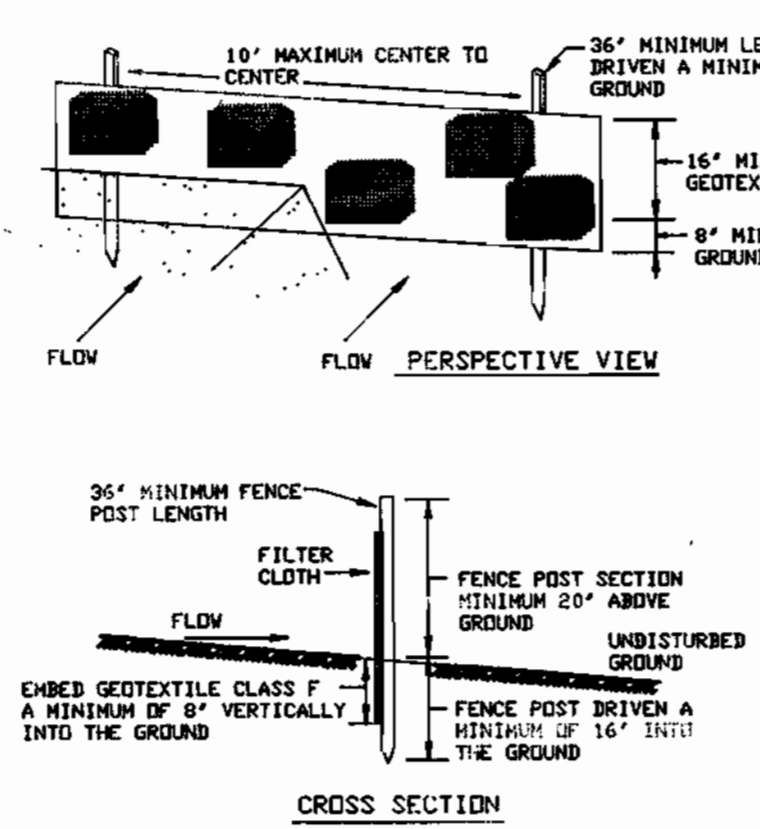
NOTE: THE DIRT FENCE SHOWN UNDER THIS CONTRACT TO BE PROVIDED IN ADDITION TO THE SEDIMENT & EROSION CONTROL MEASURES PROVIDED UNDER 179C-179.



NOTE: EXTEND 10' L.F. OF 4" OHC TO THE LIMIT OF THE PROP. 6" BULKHEAD & UTILITY EASEMENT ON LOT 155 & 157.

NOTE: ALL OTHER HOUSE CONNECTIONS (OHC'S) IN CHESTER WAY ARE EXISTING UP TO THE RIGHT-OF-WAY. THE OHC'S FOR LOT 155 & 157 SHALL BE EXTENDED TO THE LIMIT OF THE PROPOSED 10' EASEMENT & UTILITY EASEMENT.

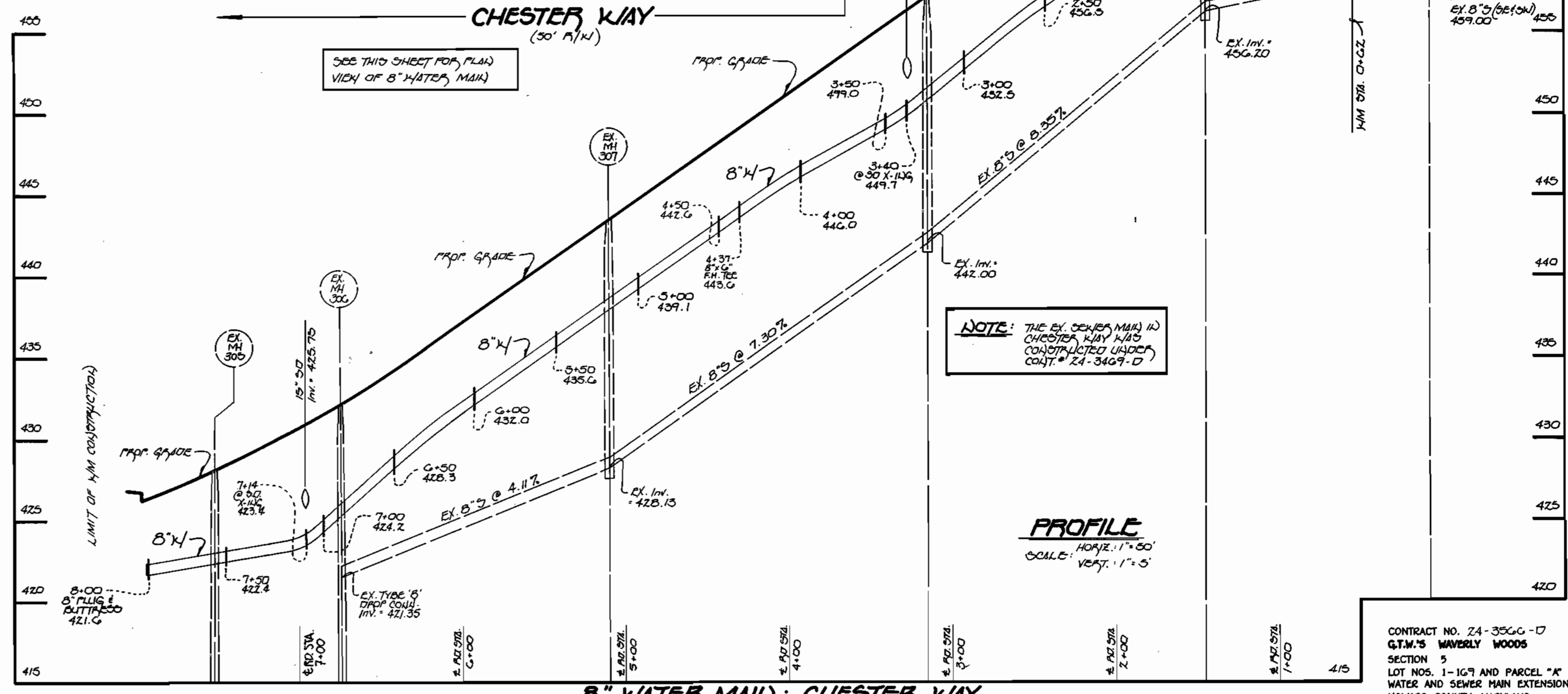
NOTE: SEE SHEET 7 FOR SEDIMENT & EROSION CONTROL NOTES & SEQUENCE OF CONSTRUCTION.



SILT FENCE NOT TO SCALE

- Construction Specifications
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
  - Geotextile shall be fastened securely to each fence post with wire ties or staples at top and midsection and shall meet the following requirements for Geotextile Class F:
 

Tensile Strength	50 lbs/in. (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in. (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft <sup>2</sup> /minute (max.)	Test: MSMT 382
Filtering Efficiency	75% (min.)	Test: MSMT 382
  - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
  - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.



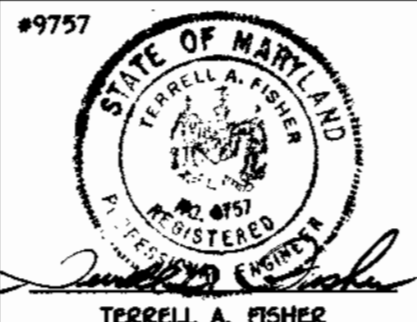
NOTE: THE EX. CHESTER MAIN IN CHESTER WAY N/AS CONSTRUCTION UNDER CONTRACT #24-3469-D

CONTRACT NO. 24-3566-D  
G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Richard J. ... 1/24/97  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
... 1/24/97  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Fisher, Collins & Carter, Inc.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10272 Baltimore National Pike  
Beltway, City, Maryland 21042  
(410) 461-2855



DES:	M.J.M.		
DRWN:	J.M.H.		
CHE:	P.W.K.		
DATE:	F.C.C.	REVISE SHEET NUMBERS	7/97
BY:	NO.	REVISION	DATE

600' SCALE MAP NO. 15 BLOCK NO. 6 & 12

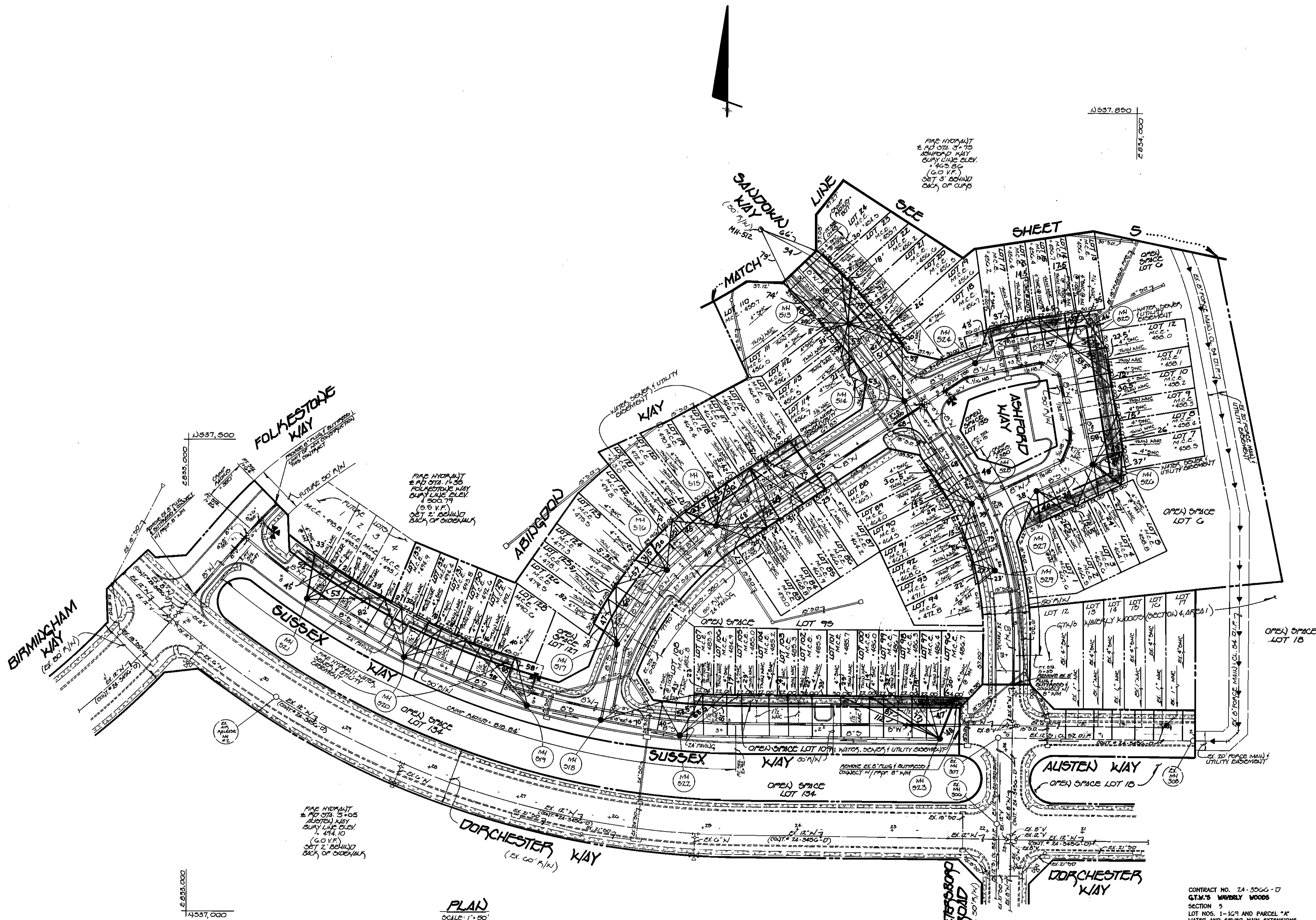
G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
CONTRACT NO. 24-3566-D  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 10









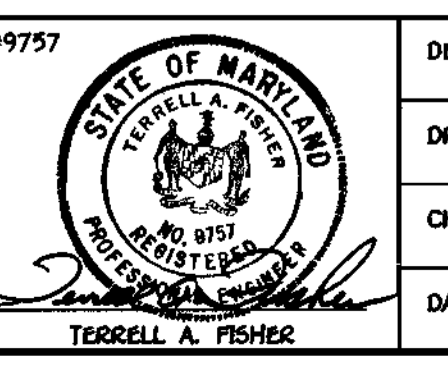
PLAN  
SCALE: 1" = 50'

CONTRACT NO. 24-3566-D  
G.T.W.'S WAVELY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
Michael S. Ruvainello for REC 1-17-97  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
  
[Signature]  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.  
CIVIL ENGINEERING CONSULTANTS &  
LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 481-2885



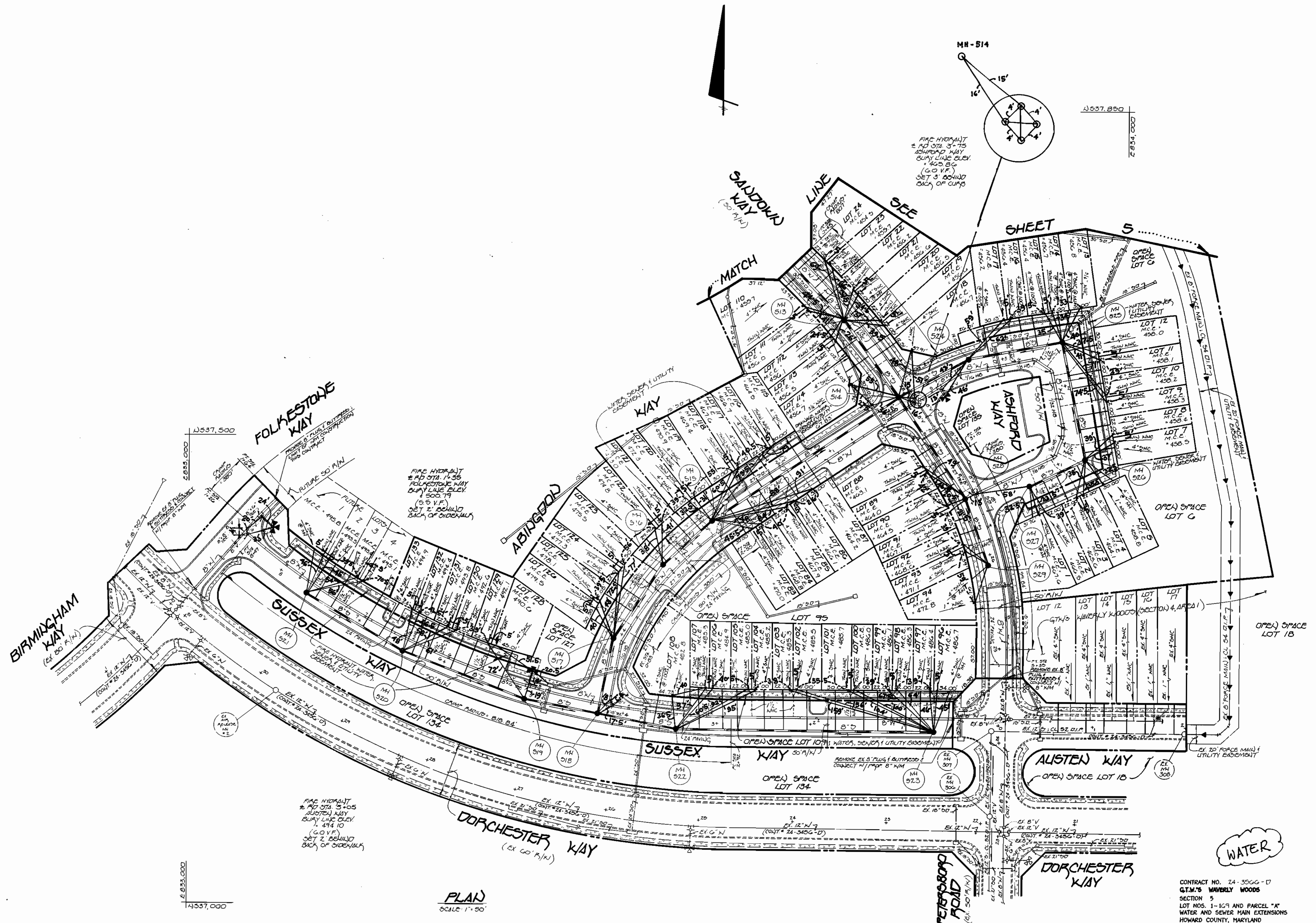
DES: M.J.M.			
DRWN: J.M.M.			
CHK: P.W.K.			
DATE:	F.C.C.  REVISE SHEET NUMBER	7/97	
BY NO.	REVISION	DATE	

PLAN VIEW  
WATER & SEWER MAINS  
600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

G.T.W.'S WAVELY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
CONTRACT NO. 24-3566-D  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 4 OF 10





DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Michael S. Kowalski  
CHIEF, BUREAU OF UTILITIES

DATE: 1-17-97

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE:

**Fisher, Collins & Carter, Inc.**  
CIVIL ENGINEERING CONSULTANTS &  
LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 481-2856

TERRELL A. FISHER

#9757

DES: M.J.M.	
DRWN: J.H.M.	
CHK: P.W.K.	
DATE: 7/97	
BY: F.C.C.	NO. 1
REVISION	

PLAN VIEW  
WATER & SEWER MAINS

600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
CONTRACT NO. 24-3566-D  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 4A OF 10





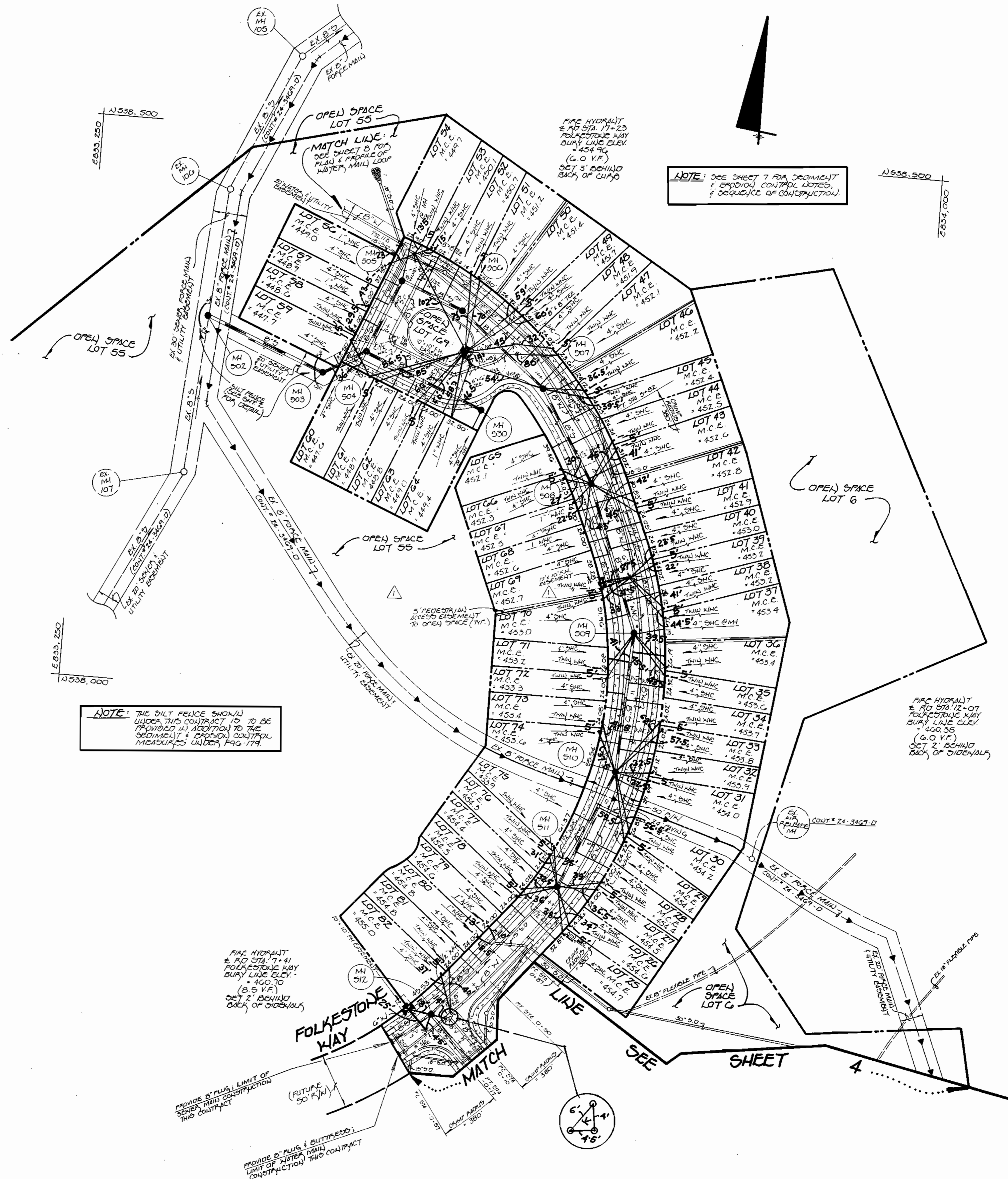


SHC INVERT @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
0+10 AT	MH 503 TO MH 504	443.04
0+15 LT	60	443.14
MH 504 TO MH 530		
0+35 AT	61	444.11
0+50 AT	62	444.22
0+85 AT	63	444.48
@ MH 530 AT	64 (SHC @ MH)	444.85
MH 504 TO MH 505		
0+25 AT	58	444.09
0+46 LT	57	444.30
0+65 LT	56	444.49
@ MH 505 AT	54 (SHC @ MH)	445.10
MH 505 TO MH 506		
0+20 LT	53	445.52
0+40 LT	52	446.12
MH 506 TO MH 507		
0+05 LT	51	446.69
0+20 LT	50	444.86
0+47 LT	49	447.15
0+71 LT	48	447.37
0+95 LT	47	447.55
MH 507 TO MH 508		
0+05 LT	46	447.03
0+35 LT	45	447.84
0+50 AT	45	447.39
0+55 LT	44	447.96
0+85 AT	46	447.79
0+90 LT	43	448.09
MH 508 TO MH 509		
0+17 LT	42	448.23
0+21 AT	42	447.93
0+45 LT	41	448.37
0+50 AT	48	448.07
0+60 LT	41	448.42
0+65 AT	42	448.12
0+95 LT	39	448.61
1+10 LT	38	448.67
1+20 AT	70	448.48
@ MH 509 AT	37 (SHC @ MH)	448.89
MH 509 TO MH 510		
0+17 LT	36	448.85
0+26 AT	71	448.67
0+45 LT	35	449.06
0+55 AT	72	448.79
0+60 LT	34	449.15
0+70 AT	73	448.86
0+95 LT	33	449.29
1+00 AT	74	449.03
1+05 LT	32	449.34
MH 510 TO MH 511		
0+05 LT	31	449.45
0+35 LT	30	449.64
0+50 AT	75	449.39
0+65 LT	29	449.81
0+80 LT	28	449.86
1+05 AT	76	449.73
1+10 LT	27	449.95
MH 511 TO MH 512		
0+05 LT	26	450.04
0+10 AT	77	449.82
0+35 LT	25	450.19
0+40 AT	78	449.93
0+60 AT	79	450.03
0+95 AT	80	450.21
1+05 AT	81	450.26
1+40 AT	82	450.43
MH 512 TO MH 513		
0+00 LT	24 (@ 100%)	450.93
0+05 AT	110	451.10
0+88 LT	23 (@ 100%)	451.17
1+05 LT	22	451.60
1+15 AT	111	451.48
1+25 AT	112	451.56
@ MH 513 AT	21 (SHC @ MH)	452.01
MH 513 TO MH 514		
0+15 LT	20	451.93
0+25 AT	113	451.90
0+40 LT	19	452.09
0+45 AT	114	452.10
0+50 LT	18	452.14
MH 514 TO MH 528		
0+05 AT	88	458.58
0+95 AT	89	459.48
1+10 AT	90	459.93
MH 528 TO MH 529		
0+20 AT	91	462.53
0+35 AT	92	464.03
0+60 AT	93	466.53
@ MH 529 AT	94 (SHC @ MH)	468.29
MH 524 TO MH 525		
0+22 LT	7 (@ 100%)	452.60
0+60 LT	11 (@ 100%)	452.82
0+75 LT	15 (@ 100%)	452.89
@ MH 525 LT	4 (@ 100%)	453.16
@ MH 525 LT	13 (@ 100%)	453.20

SHC INVERT @ PROPERTY LINE CHART

STATION	LOT	ELEVATION
0+10 LT	MH 525 TO MH 526	453.43
0+37 LT	11	453.57
0+50 LT	10	453.63
0+80 LT	9	453.78
0+95 LT	8	453.84
1+20 LT	7	453.96
@ MH 526 LT	5	454.20
MH 526 TO MH 527		
0+10 LT	4	459.51
0+35 LT	3	461.01
0+50 LT	2	461.91
@ MH 527 LT	1	463.03
MH 524 TO MH 525		
1+20 LT	87	459.65
1+25 AT	115	459.98
1+50 LT	86	461.50
1+60 AT	116	462.10
1+75 AT	117	463.01
1+80 LT	85	463.03
1+95 LT	84	464.21
2+05 AT	118	464.81
2+15 LT	83	465.42
2+30 AT	119	466.35
MH 525 TO MH 526		
0+15 AT	120	467.71
0+30 AT	121	468.48
0+65 AT	122	470.21
MH 526 TO MH 527		
0+10 AT	123	470.96
0+45 AT	124	472.77
0+60 AT	125	473.52
0+90 AT	126	474.96
MH 527 TO MH 528		
0+30 AT	128	486.07
0+70 AT	129	487.51
0+85 AT	130	488.05
1+15 AT	131	489.21
1+30 AT	132	489.80
MH 528 TO MH 529		
0+30 AT	133	490.37
0+50 AT	FUTURE LOT 4	490.53
0+90 AT	FUTURE LOT 3	490.80
1+10 AT	FUTURE LOT 2	490.96
@ MH 529 AT	FUTURE LOT 1 (SHC @ MH)	491.29
MH 528 TO MH 529		
0+60 LT	108 (@ 100%)	479.29
MH 522 TO MH 523		
0+25 LT	107 (@ 100%)	479.73
0+50 LT	106	480.34
0+65 LT	105	480.43
0+95 LT	104	480.64
1+15 LT	103	480.79
1+40 LT	102	480.97
1+70 LT	101	481.18
2+00 LT	100	481.40
2+15 LT	99	481.51
2+45 LT	98	481.72
2+60 LT	97	481.83
@ MH 523 LT	96 (SHC @ MH)	482.16



NOTE: THE DIRT FENCE SHOULD BE UNDER THE CONTRACT TO BE PROVIDED IN ADDITION TO THE SETBACKS & PROVISION CONTROL MEASUREMENTS UNDER PAR 17.1.

NOTE: SEE SHEET 7 FOR SEGMENT & PROVISION CONTROL NOTES, & SEQUENCE OF CONSTRUCTION.

FIRE HYDRANT & RD STA. 7+41 FOLKESTONE WAY BURY LINE ELEV. +460.35 (G.O.V.F.) SET 3' BEHIND BACK OF SIDEWALK

FIRE HYDRANT & RD STA. 7+41 FOLKESTONE WAY BURY LINE ELEV. +460.35 (G.O.V.F.) SET 2' BEHIND BACK OF SIDEWALK

PROVIDE 5' PLUS LIMIT OF SLOPE AREA CONSTRUCTION THIS CONTRACT (FUTURE 50' F.W.)

PROVIDE 5' PLUS (OUTLETS) LIMIT OF WATER MAIN CONSTRUCTION THIS CONTRACT

CONTRACT NO. 24-3566-D  
G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Michael A. ...*  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

*...*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Fisher, Collins & Carter, Inc.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 461-2855

#9757  
TERRELL A. FISHER

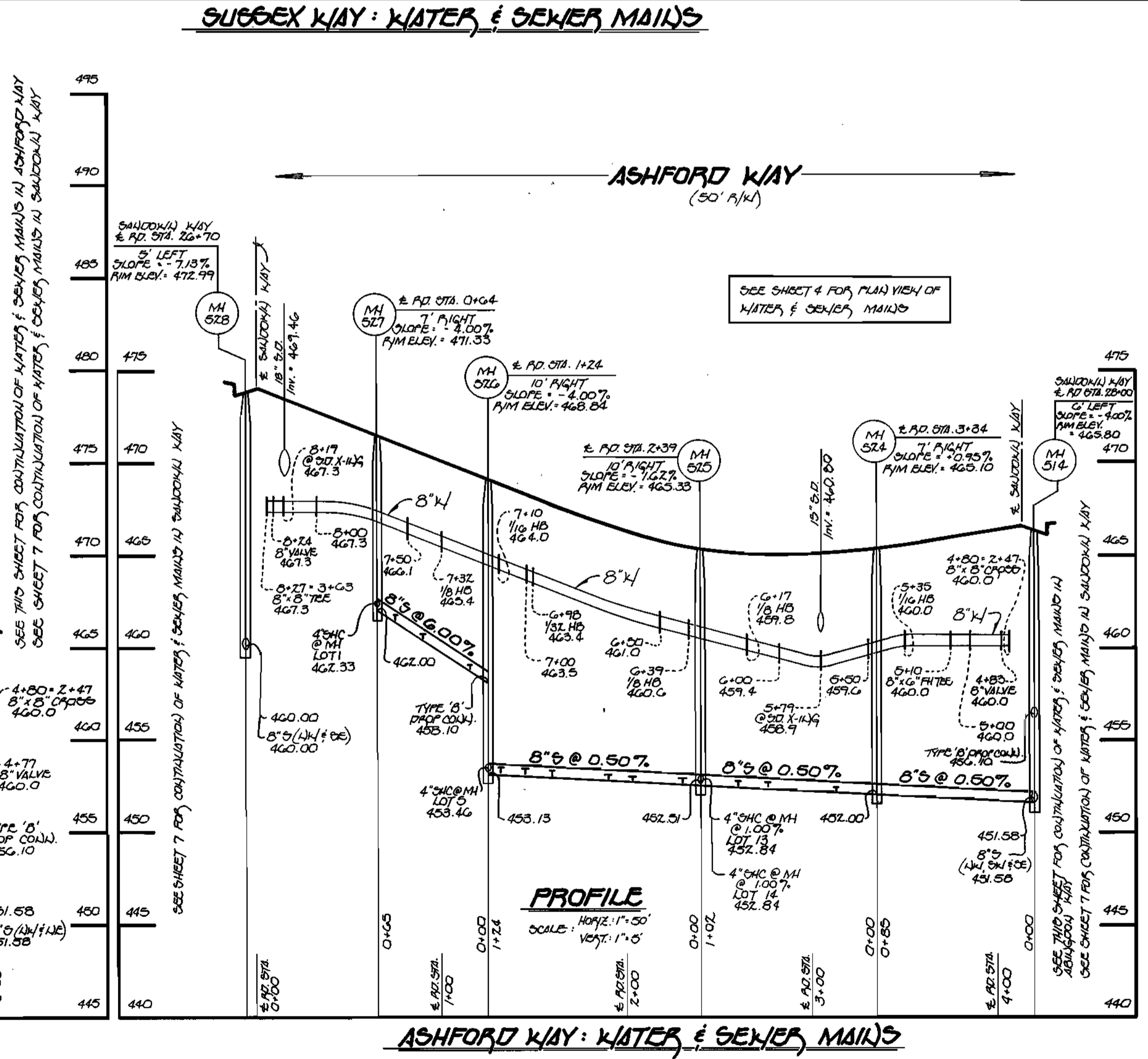
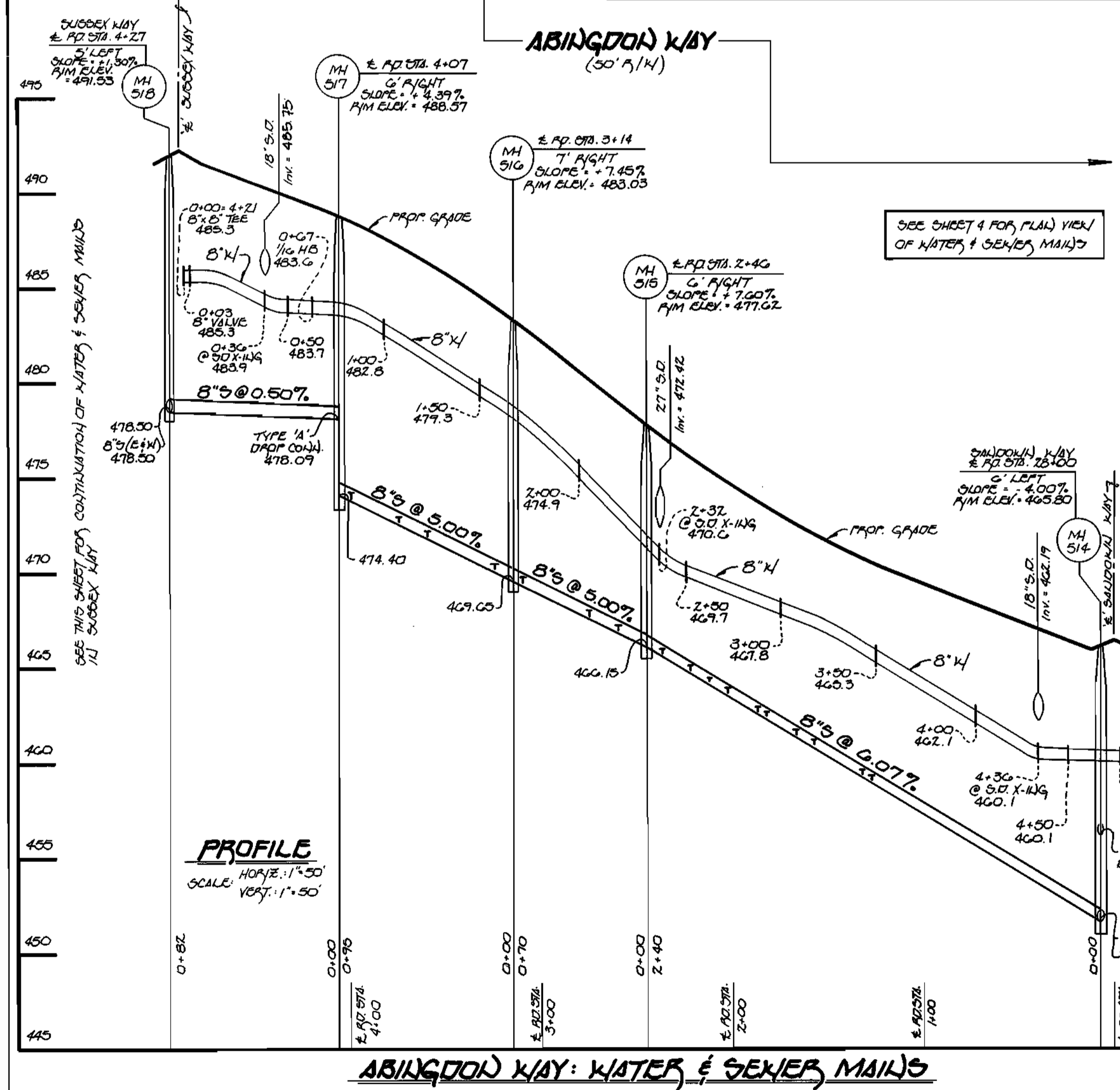
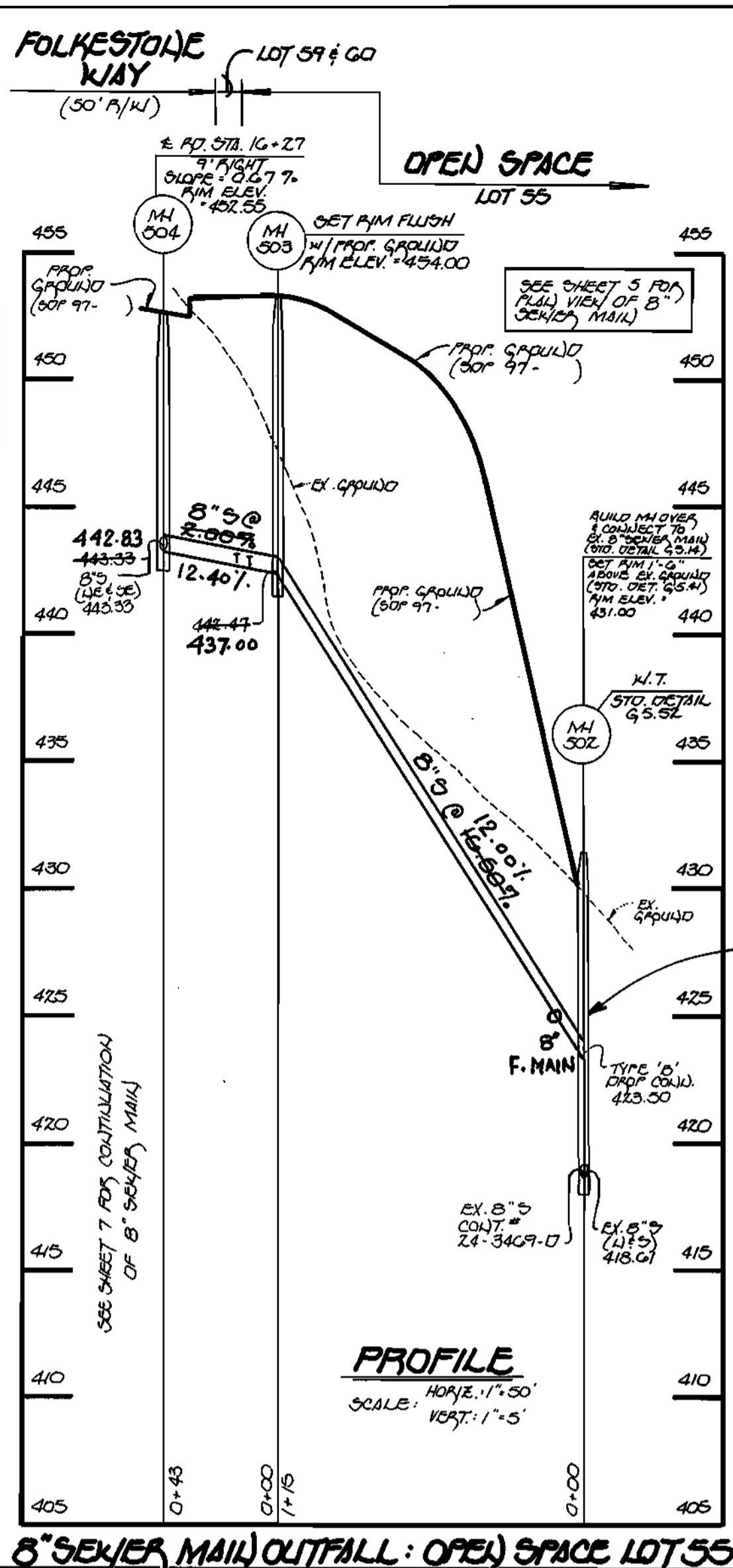
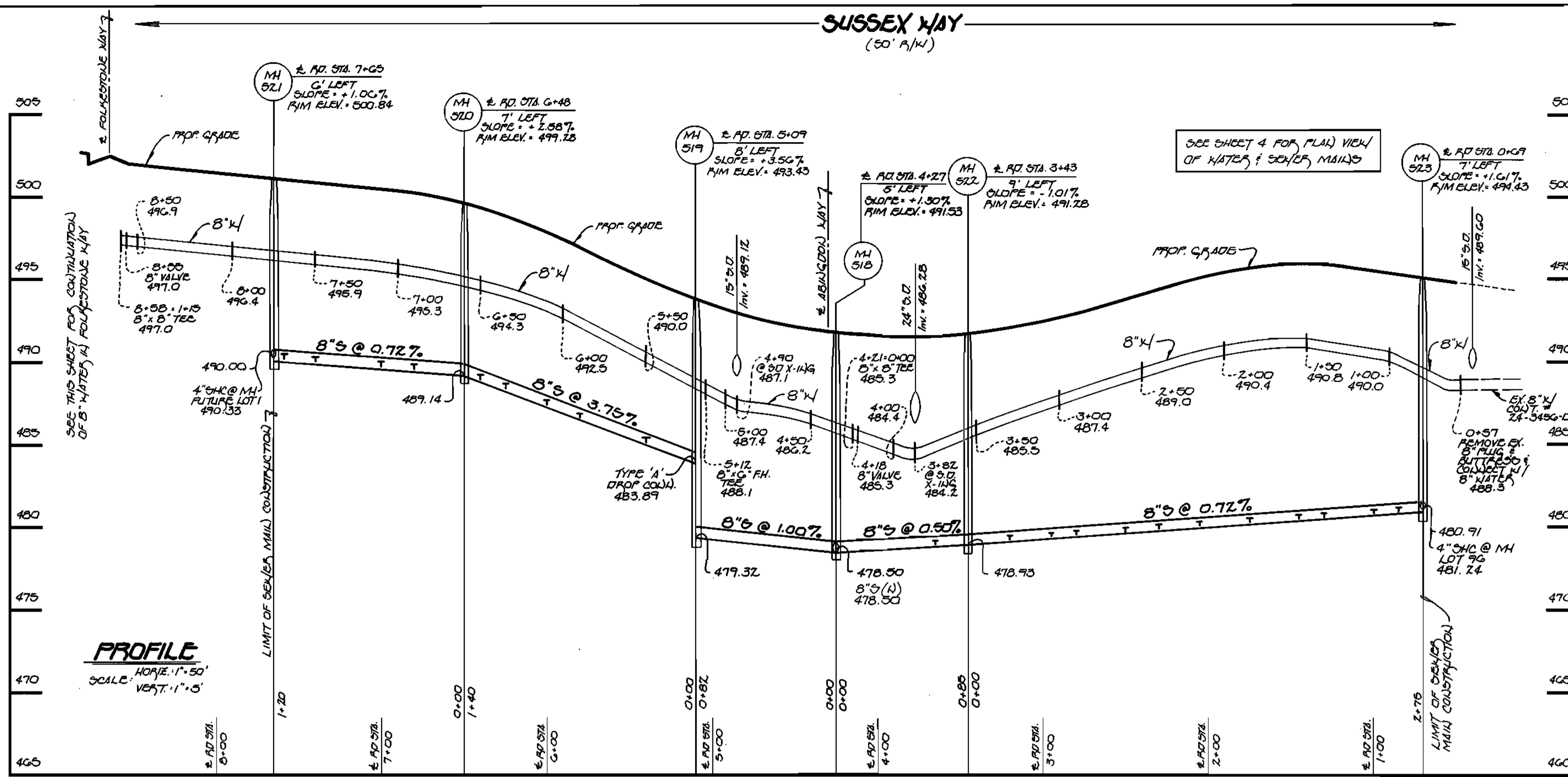
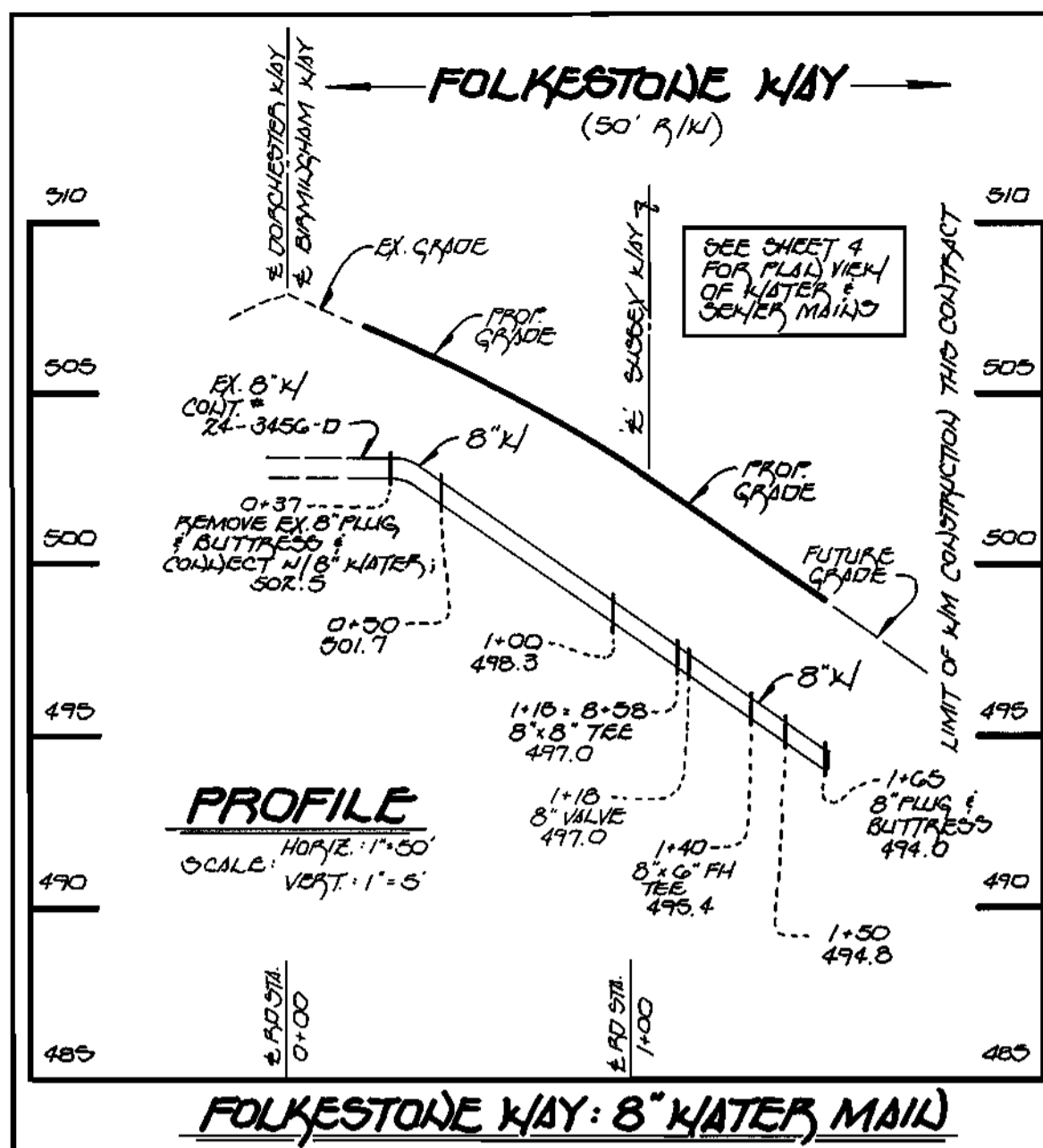
DES: M.J.M.				
DRWN: J.M.M.				
CHK: P.W.K.	F.C.C.	REVISE SHEET NUMBERS		7/97
DATE:	F.C.C.	REVISE P.H. LOCATION (FROM KM 514-3+85 TO KM 514-4+48)		1/97
BY NO.	NO.	REVISION		DATE

PLAN VIEW  
WATER & SEWER MAINS  
600' SCALE MAP NO. 16 BLOCK NO. 6 & 12

G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
CONTRACT NO. 24-3566-D  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 5 OF 10





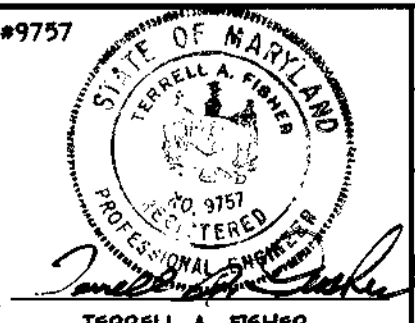
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Michael A. Swanwick, P.E. 1-17-97  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

Chief, Development Engineering Division

Fisher, Collins & Carter, Inc.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 481-2855



DES: M.J.M.	DATE: 7/97
DRWN: J.H.H.	BY: NO.
CHK: P.W.K.	REVISION
DATE:	DATE:

WATER AND SEWER MAIN  
PROFILES

600' SCALE MAP NO. 15 BLOCK NO. 6 & 12

G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
CONTRACT NO. 24-3566-D  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 6 OF 10

CONTRACT NO. 24-3566-D  
G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND



**SEDIMENT CONTROL NOTES**

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A SEVEN (7) CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL GREATER THAN 3% (14) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 50 SOD (SEC. 54)). TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 22). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
  - TOTAL AREA OF SITE: 53.646 ACRES
  - EROSION/CONSTRUCTION STRIP: 28.046 ACRES
  - AREA TO BE ROOFED OR PAVED: 3.045 ACRES
  - AREA TO BE VEGETATIVELY STABILIZED: 13.550 ACRES
  - TOTAL CUT: 10,000 CU.YDS.
  - TOTAL FILL: 10,000 CU.YDS.
  - OFF-SITE WASTE/BORROW: N/A CU.YDS.
  - AREA LOCATION (NOT APPLICABLE): N/A CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF TWO (2) ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- PROVIDED FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE (3) PIPE LENGTHS OF THAT WHICH SHALL BE BACKFILLED & STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

**EROSION AND SEDIMENT CONTROL NOTES**

- ALL SEDIMENT CONTROL OPERATIONS ARE TO BE DONE IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SEDIMENT CONTROL IN
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST ORDER OF BUSINESS.
- ALL EXCAVATED MATERIALS SHALL BE STOCKPILED ON THE UPGRADE SIDE OF THE SEWER MAIN TRENCH.
- IMMEDIATELY FOLLOWING BACKFILL OF THE SEWER MAIN TRENCH ALL DISTURBED AREAS ARE TO BE STABILIZED AND SEEDING NOTES SHOWN ON THIS SHEET.
- THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL REGULARLY INSPECT ALL SEDIMENT CONTROL DEVICES AND PROVIDE ALL NECESSARY MAINTENANCE TO INSURE THAT ALL DEVICES ARE IN OPERATIVE CONDITION.
- ALL SEDIMENT CONTROL FACILITIES SHALL REMAIN IN PLACE UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SOIL CONSERVATION DISTRICT. SEE SEWER MAIN CONSTRUCTION SEQUENCE THIS SHEET.

**PERMANENT SEEDING NOTES**

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

- SEEDING PREPARATION:**  
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS:**  
APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1,000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1,000 SQ.FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER (9 LBS./1,000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1,000 SQ.FT.) OF 10-20-20 FERTILIZER.

- SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15TH, SEED WITH 100 LBS. PER ACRE (23 LBS./1,000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (14 LBS./1,000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1,000 SQ.FT.) OF WEEDING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (1) TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE 500 GALLONS PER ACRE OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

- MULCHING:**  
APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GALL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.

- MAINTENANCE:**  
INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

**TEMPORARY SEEDING NOTES**

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

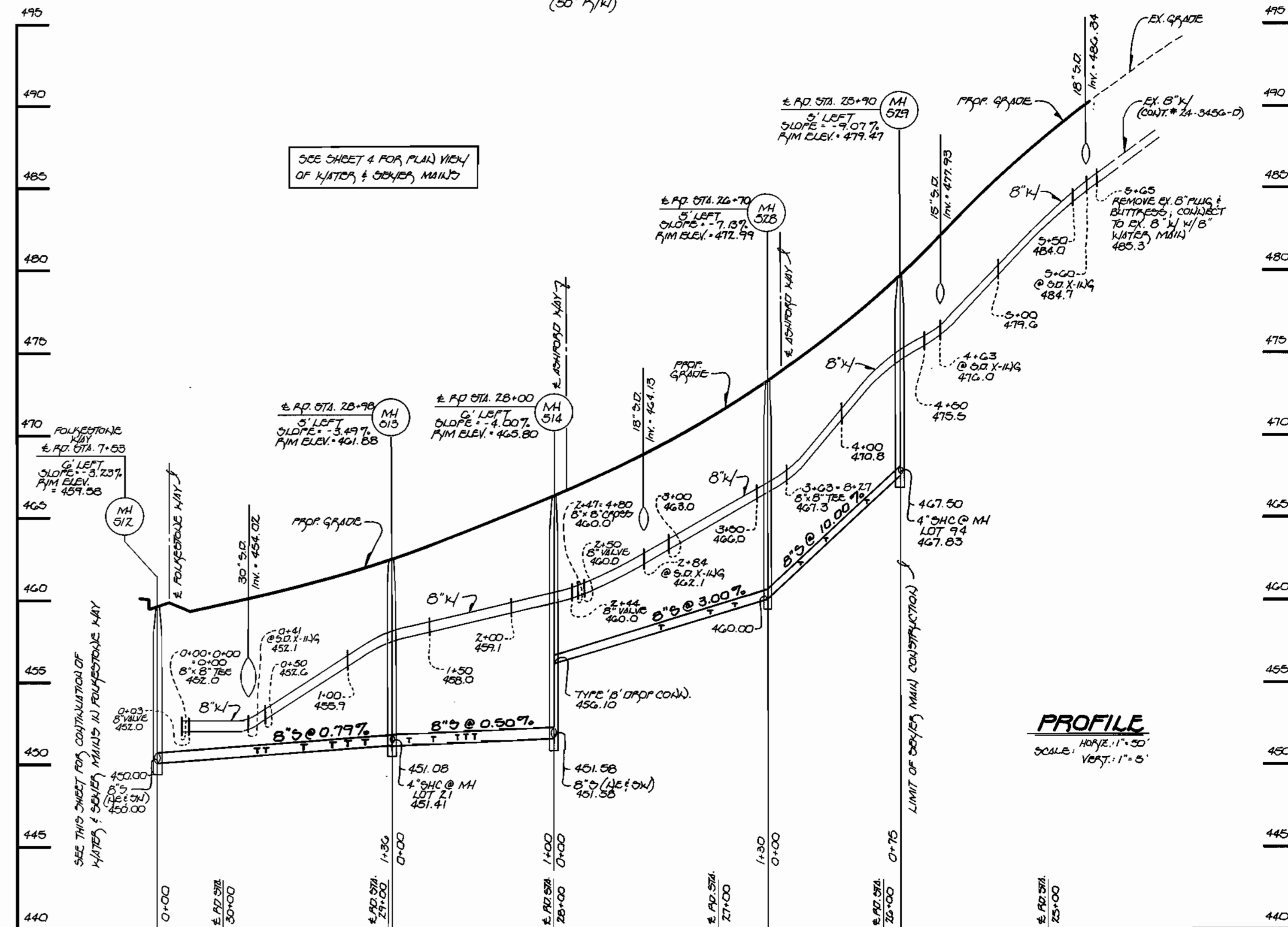
- SEEDING PREPARATION:**  
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS:**  
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1,000 SQ.FT.)
- SEEDING:**  
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 17 BUSHEL PER ACRE OF ANNUAL RYE (32 LBS./ACRE) OF WEEDING LOVEGRASS (07 LBS./1,000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

- MULCHING:**  
APPLY 1 1/2 TO 2 TONS PER ACRE (10 TO 90 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GALL./1,000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1,000 SQ.FT.) FOR ANCHORING.
- REFER TO THE 1988 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

**SEQUENCE OF CONSTRUCTION**

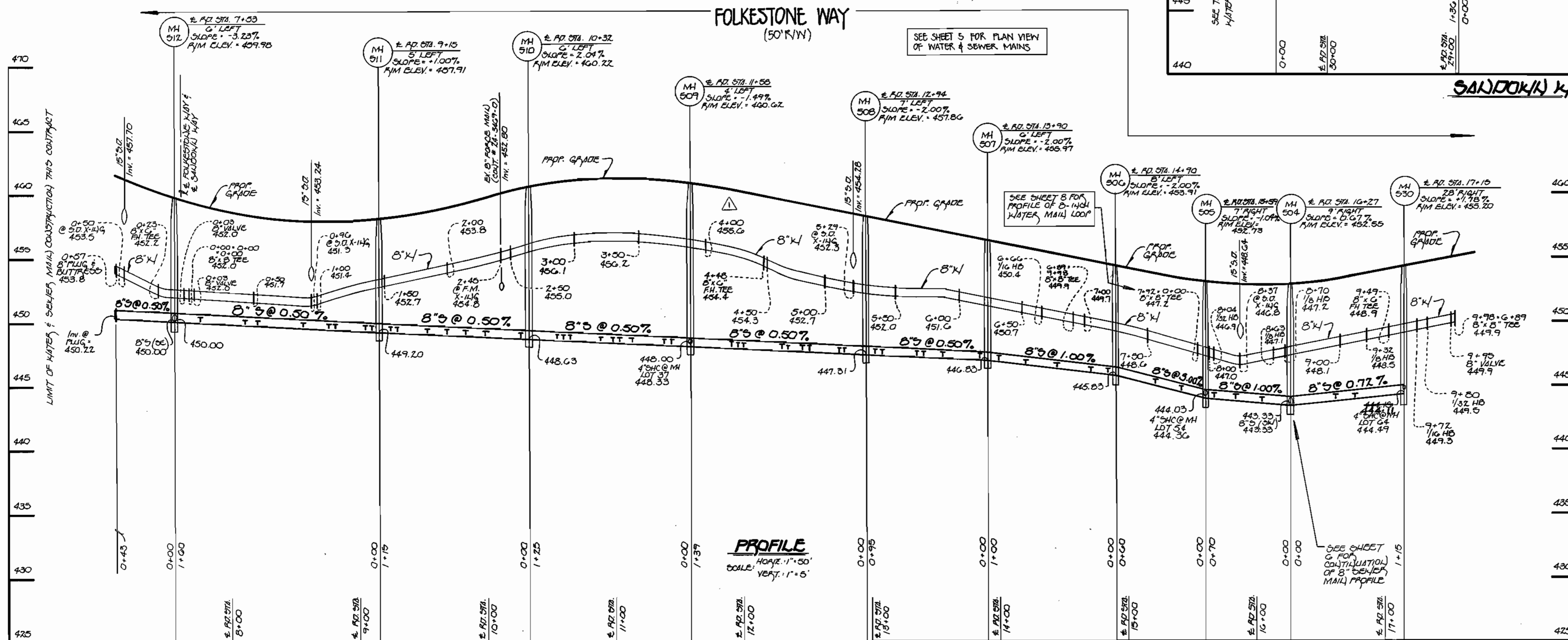
- OBTAIN THE REQUIRED GRADING PERMIT.
- NOTIFY MDOT UTILITY 48 HOURS BEFORE BEGINNING ANY UTILITY WORK. NOTIFY HOWARD COUNTY CONSTRUCTION/INSPECTION DIVISION 24 HOURS BEFORE STARTING ANY WORK. (410) 313-1870.
- INSTALL THE REQUIRED SEDIMENT & EROSION CONTROL DEVICES AS INDICATED ON THE PLAN SHEETS.
- THE CONTRACTOR SHALL INSPECT & PROVIDE NECESSARY MAINTENANCE ON ALL SEDIMENT & EROSION CONTROL DEVICES AFTER EACH RAINFALL (1) A DAILY BASIS.
- CLEAR & GRADE AS NECESSARY. ONLY AS REQUIRED FOR EXCAVATION & INSTALLATION OF THE WATER MAIN & SEWER MAINS, (1) ONLY WITHIN THE DESIGNATED DEVICES.
- INSTALL WATER & SEWER MAINS, COMPLETE & 1/4" FLARE.
- STABILIZE & MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES SHOWN ON THIS SHEET.
- FOLLOWING SUCCESSFUL STABILIZATION OF ALL DISTURBED AREAS, & AFTER PERMANENT HAS BEEN COMPLETED PER THE HOWARD COUNTY SEDIMENT CONTROL INSPECTION, REMOVE ALL EROSION & SEDIMENT CONTROL DEVICES.
- THE START OF CONSTRUCTION WITHIN THE WETLANDS & STREAM CORRIDORS SHALL BE LIMITED TO A 5' ONLY CLEAR WEATHER FORECAST FROM THE N.W.S. CONSTRUCTION WITHIN THESE LIMITS MUST BE COMPLETED WITHIN 5 DAYS.
- REMOVED FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE (3) PIPE LENGTHS OF THAT WHICH SHALL BE BACKFILLED & STABILIZED WITHIN ONE (1) WORKING DAY, WHICHEVER IS SHORTER.

**SANDOKIN WAY**  
(50' R/W)



**SANDOKIN WAY: WATER & SEWER MAINS**

**FOLKESTONE WAY**  
(50' R/W)



**FOLKESTONE WAY: WATER & SEWER MAINS**

**CONDITIONS & MANAGEMENT PRACTICES FOR WORKING IN NON-TIDAL WETLANDS**

- STOCKPILE & MAINTAIN SEPARATELY THE TOP 6"-12" OF TOPSOIL MATERIAL, TO BE REPLACED AS THE LAYER OF BACKFILLED MATERIAL.
- REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA.
- PLACE MATERIAL IN A LOCATION & MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OF SUBSURFACE WATER FLOW INTO OR OUT OF THE NON-TIDAL WETLAND.
- MAINTAIN THE HYDROLOGIC REGIME OF THE NON-TIDAL WETLAND UPTURN, DOWNSTREAM, OR ADEQUATE TO THE NON-TIDAL WETLAND.
- PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY DESIGNED EQUIPMENT TO PREVENT DAMAGE TO NON-TIDAL WETLANDS.
- USE PREVIOUSLY EXCAVATED MATERIAL AS BACKFILL, UNLESS IT CONTAINS VOLATILE METAL PRODUCTS, UNBURNED DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. USE CLEAN BORROW MATERIAL WHICH EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL.
- ALL STABILIZATION IN THE WETLANDS & BUFFER SHALL BE PART OF THE FOLLOWING SPECIES: ANNUAL AVERAGE (LULIUM MULTIFLORUM), MULLET (CETRARIA ITALICA), GRASS (HORDEUM SP.), OATS (Avena sp.) & OR RYE (Secale cereale). THESE SPECIES ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF THE WETLAND. WETLAND SPECIES, OTHER THAN REVEGETATION, MAY ALSO BE ACCEPTABLE, BUT MUST BE APPROVED BY THE DIVISION. KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN THE WETLANDS OR BUFFER AREAS. THE BACKFILL SHALL BE SEEDING & MULCHING TO REDUCE EROSION AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- UPON COMPLETION OF THE PROJECT NON-TIDAL WETLANDS & THE 25' FOOT NON-TIDAL WETLAND BUFFER WILL NOT BE MOWED OR OTHERWISE MAINTAINED TO PREVENT THE RE-ESTABLISHMENT OF THE FORESTED COVER.
- AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRACES & ELEVATIONS OF NON-TIDAL WETLANDS THE SAME AS THE ORIGINAL GRACES & ELEVATIONS.

CONTRACT NO. 24-35GG-D  
G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Michael A. Wainwright  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
[Signature]  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Fisher, Collins & Carter, Inc.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10272 Baltimore National Pike  
Ellicott City, Maryland 21042  
(410) 461-2855

STATE OF MARYLAND  
REGISTERED PROFESSIONAL ENGINEER  
TERRELL A. FISHER

DES: H.J.M.	DATE: 7/97
DRWN: J.M.M.	DATE: 1/97
CHK: P.W.K.	DATE:
DATE:	DATE:

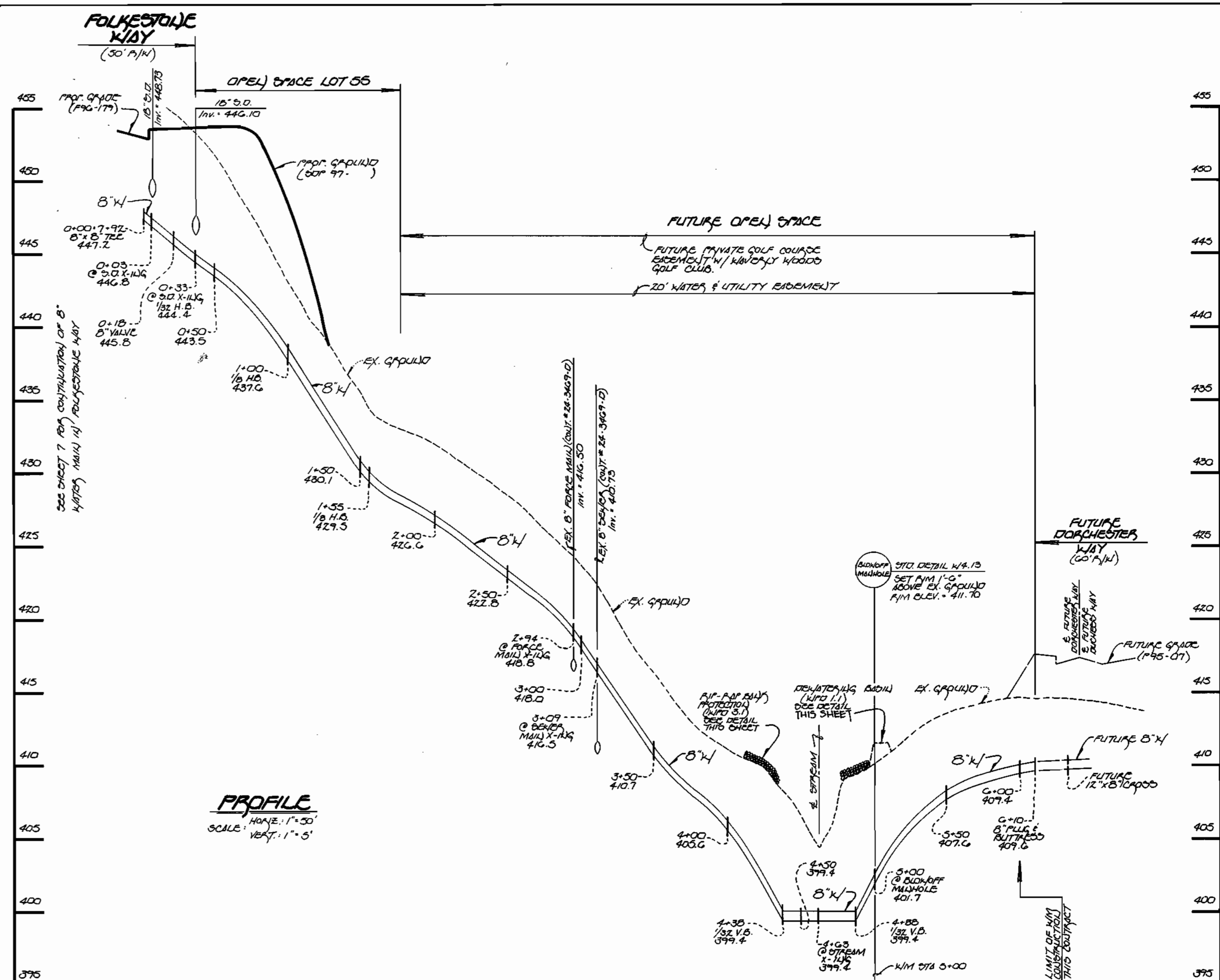
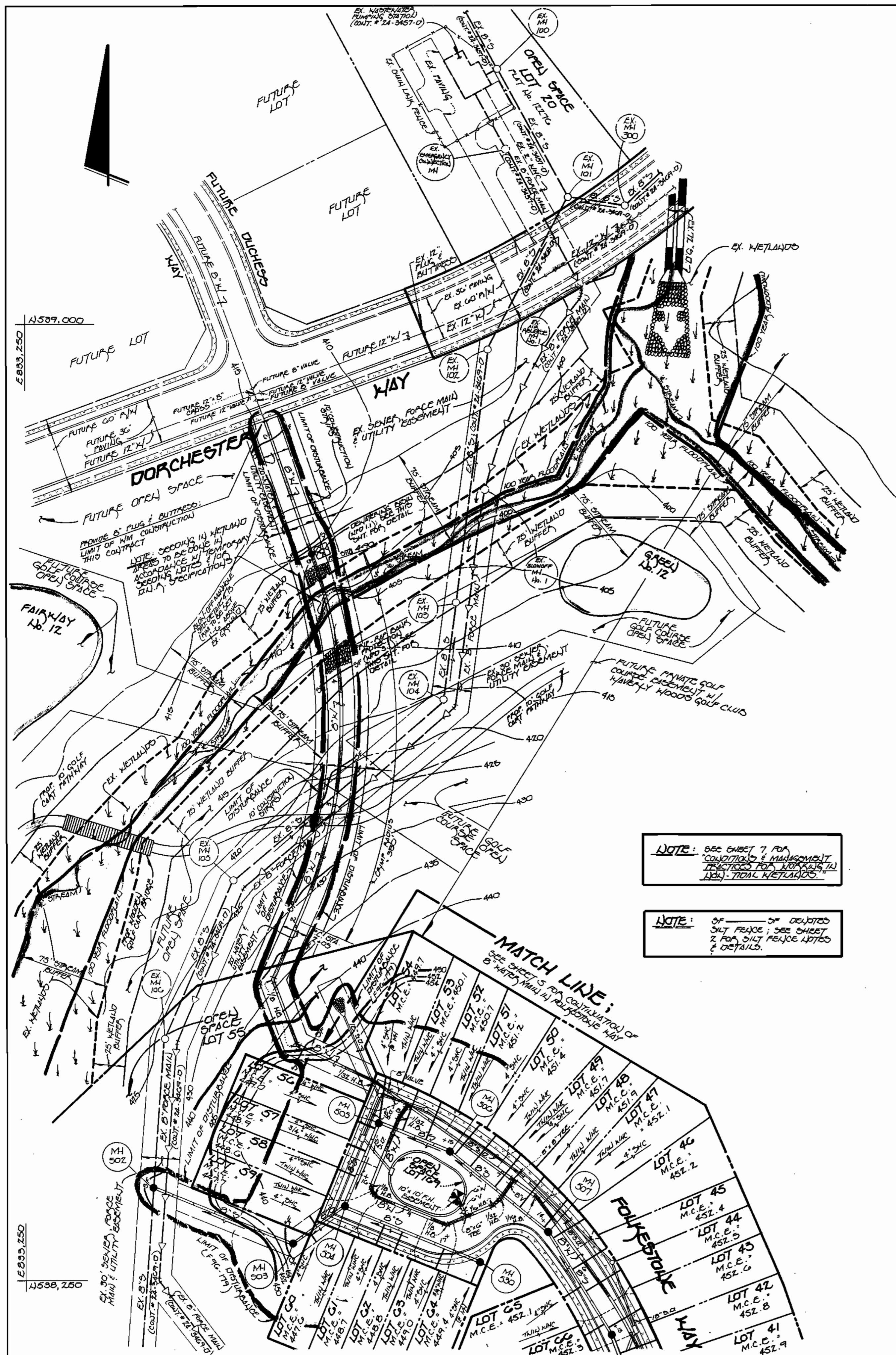
BY NO.	REVISION	DATE
F.C.C.	REVISE SHEET NUMBERS	7/97
F.C.C.	REVISE 8' X 7' TRN. THE LOCATION (FROM NM 074-3185 TO NM 074-4148)	1/97

WATER AND SEWER MAIN PROFILES  
600' SCALE MAP NO. 15 BLOCK NO. 6 & 12

G.T.W.'S WAVERLY WOODS  
SECTION 5  
LOT NOS. 1-169 AND PARCEL "A"  
CONTRACT NO. 24-35GG-D  
THIRD ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 7 OF 10

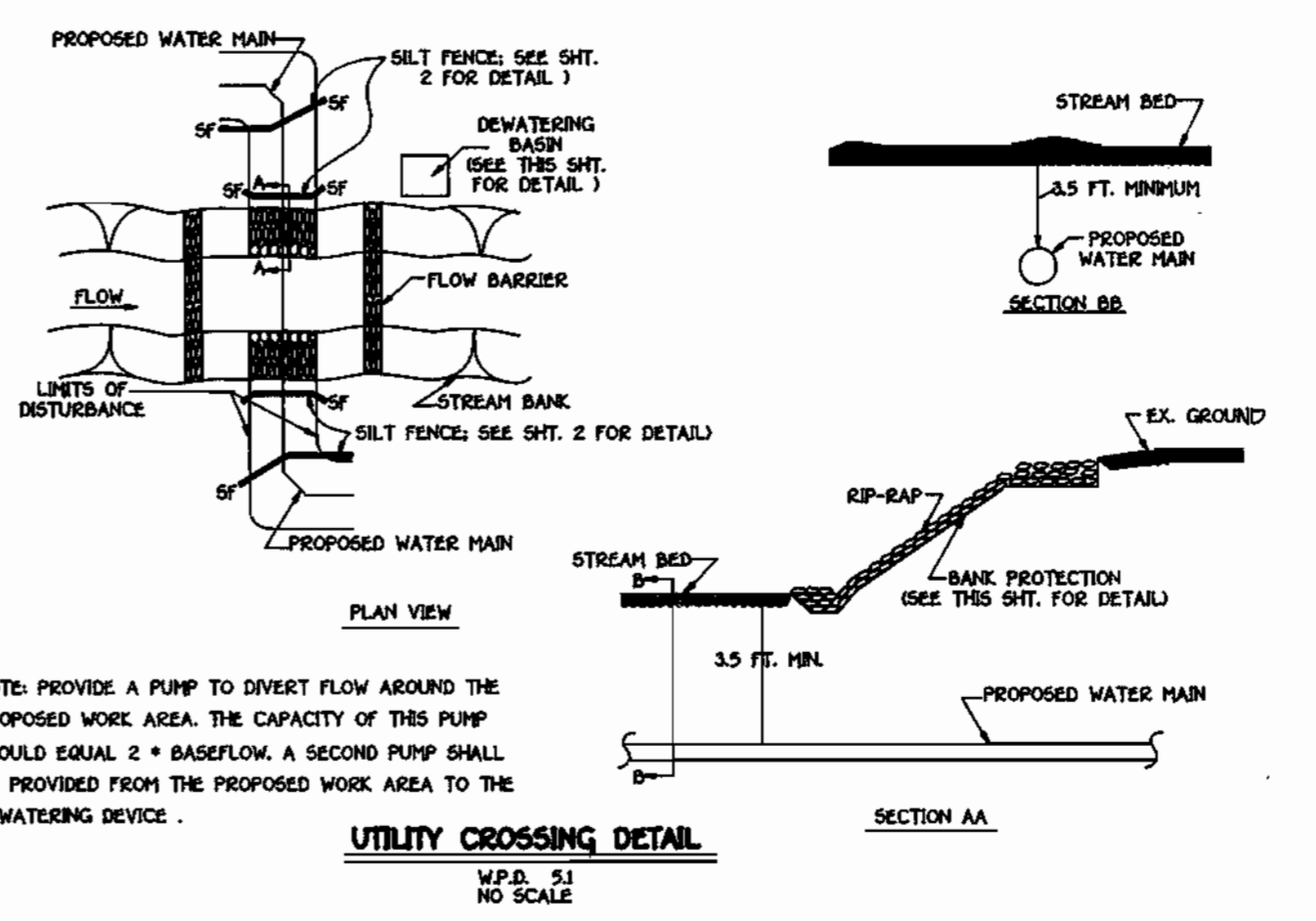
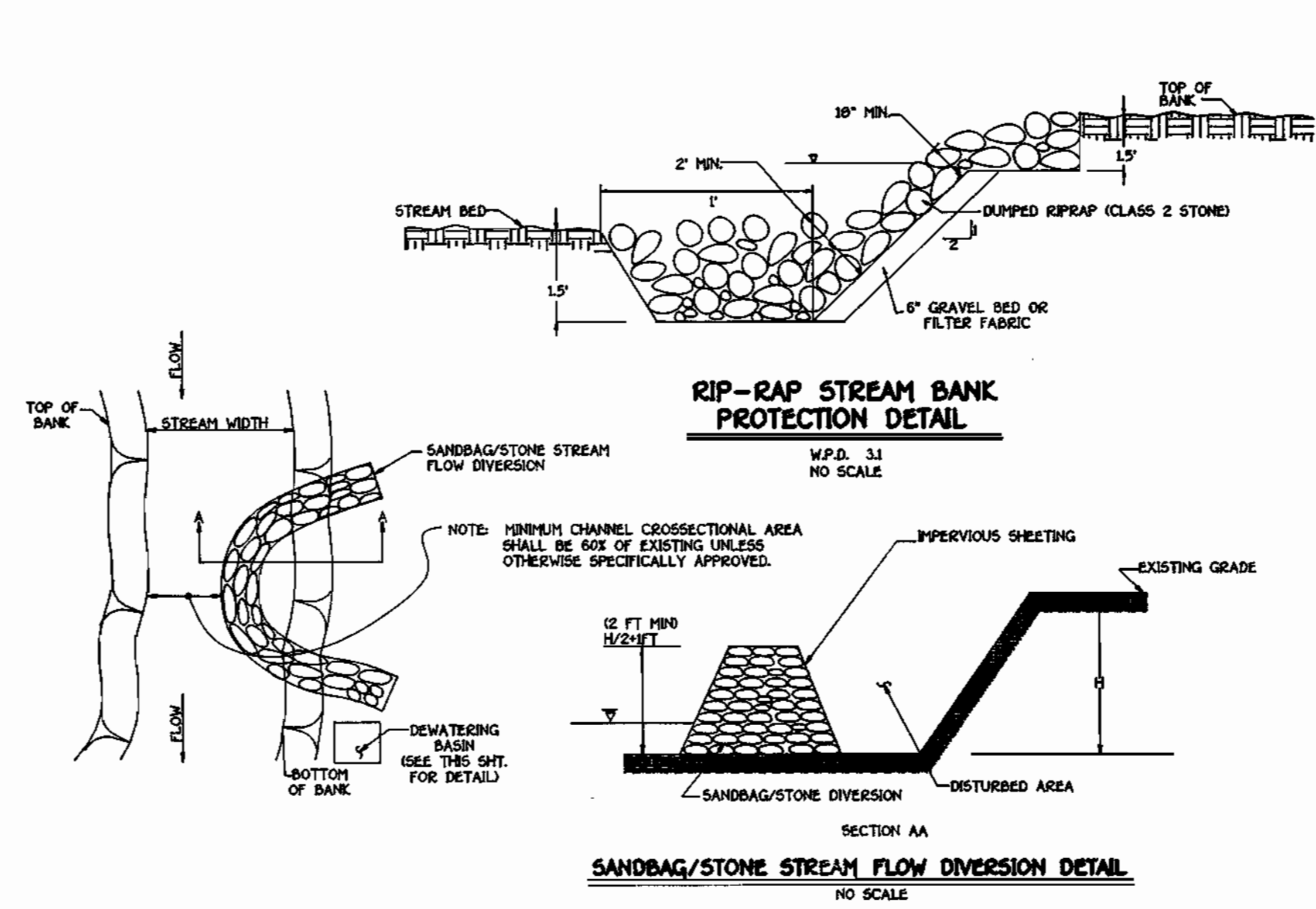
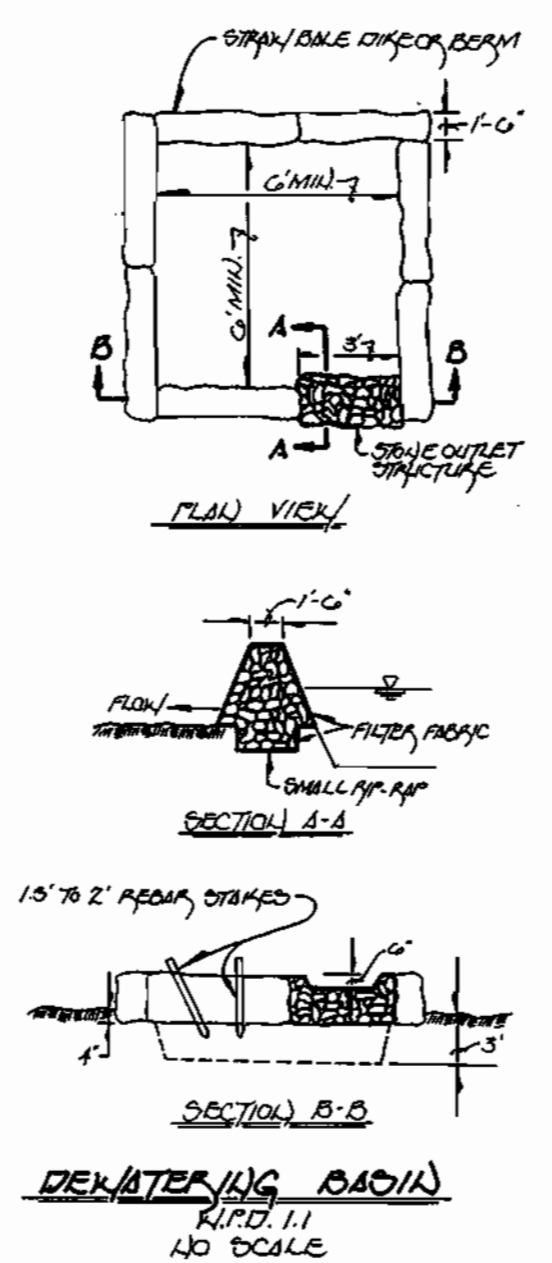




**8" WATER MAIN LOOP: FOLKESTONE WAY TO FUTURE DORCHESTER WAY**

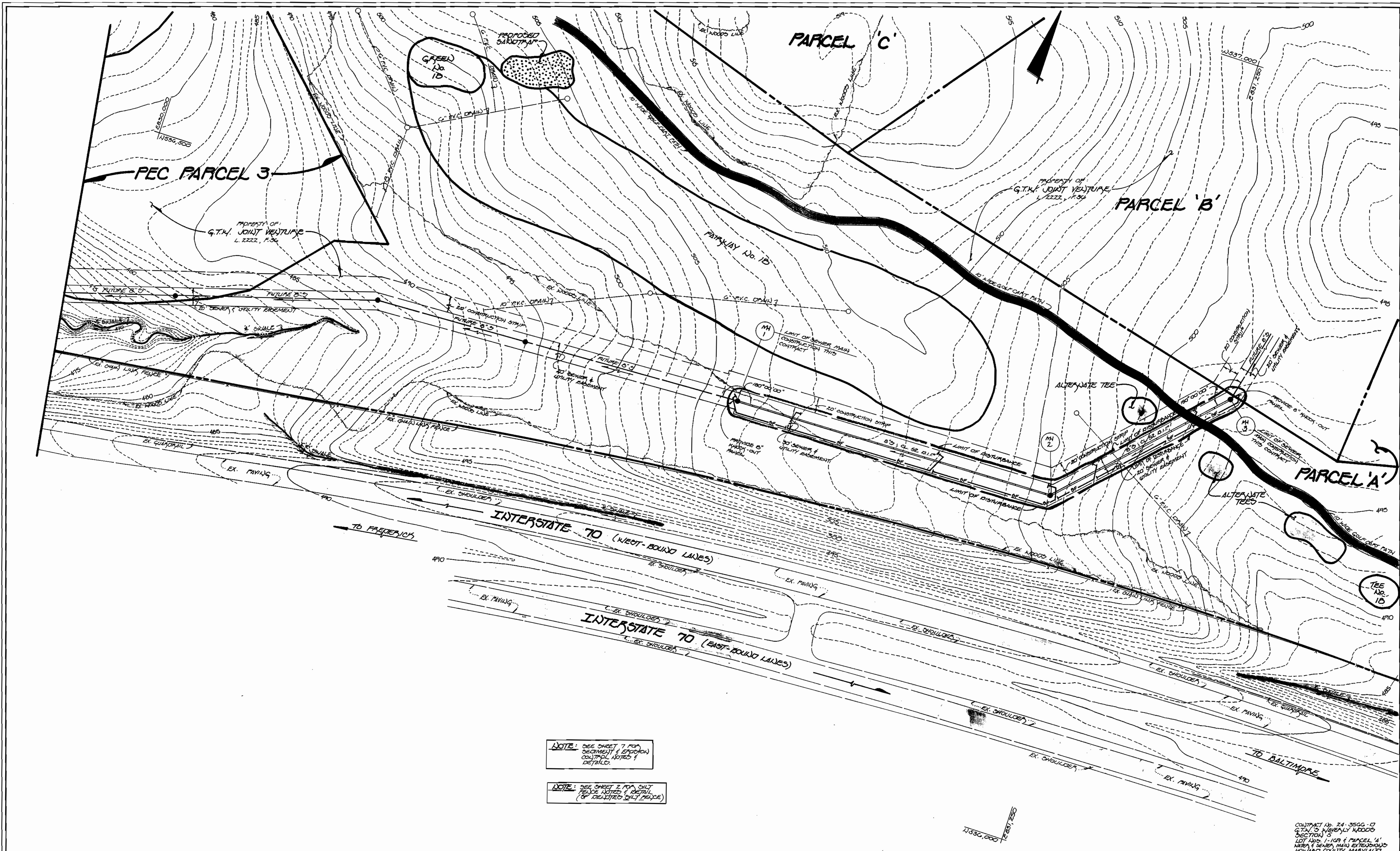
**NOTE:** SEE SHEET 7 FOR CONTINUATION OF 8" WATER MAIN ALI POLYETHYLENE PIPE TO NEILANDS

**NOTE:** SEE SHEET 5 FOR CONTINUATION OF 8" WATER MAIN ALI POLYETHYLENE PIPE TO NEILANDS



<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p>Michael A. Hunsicker for Reg. 1-17-97 CHIEF, BUREAU OF UTILITIES DATE</p>	<p>DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND</p> <p>Michael A. Hunsicker for Reg. 1-17-97 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE</p>	<p>Fisher, Collins &amp; Carter, Inc. #9757</p> <p>CIVIL ENGINEERING CONSULTANTS &amp; LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10272 Baltimore National Pike Elliott City, Maryland 21042 (410) 461-2866</p>		<table border="1"> <tr> <td>DES:</td> <td>M.J.M.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DRWN:</td> <td>J.H.M.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK:</td> <td>P.W.K.</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DATE:</td> <td>F.C.C.</td> <td>REVISE SHEET NUMBER</td> <td>7/97</td> <td></td> <td></td> </tr> <tr> <td>BY:</td> <td>NO.</td> <td>REVISION</td> <td></td> <td></td> <td></td> </tr> </table>	DES:	M.J.M.					DRWN:	J.H.M.					CHK:	P.W.K.					DATE:	F.C.C.	REVISE SHEET NUMBER	7/97			BY:	NO.	REVISION				<p><b>WATER MAIN LOOP PLAN VIEW, PROFILE, NOTES &amp; DETAILS</b></p> <p>600' SCALE MAP NO. 16 BLOCK NO. C &amp; D</p>	<p>G.T.W.'S WAVERLY WOODS SECTION 5 LOT NOS. 1 - 109 AND PARCEL 'A' CONTRACT NO. 24 - 3566 - D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 8 OF 10</p>
DES:	M.J.M.																																				
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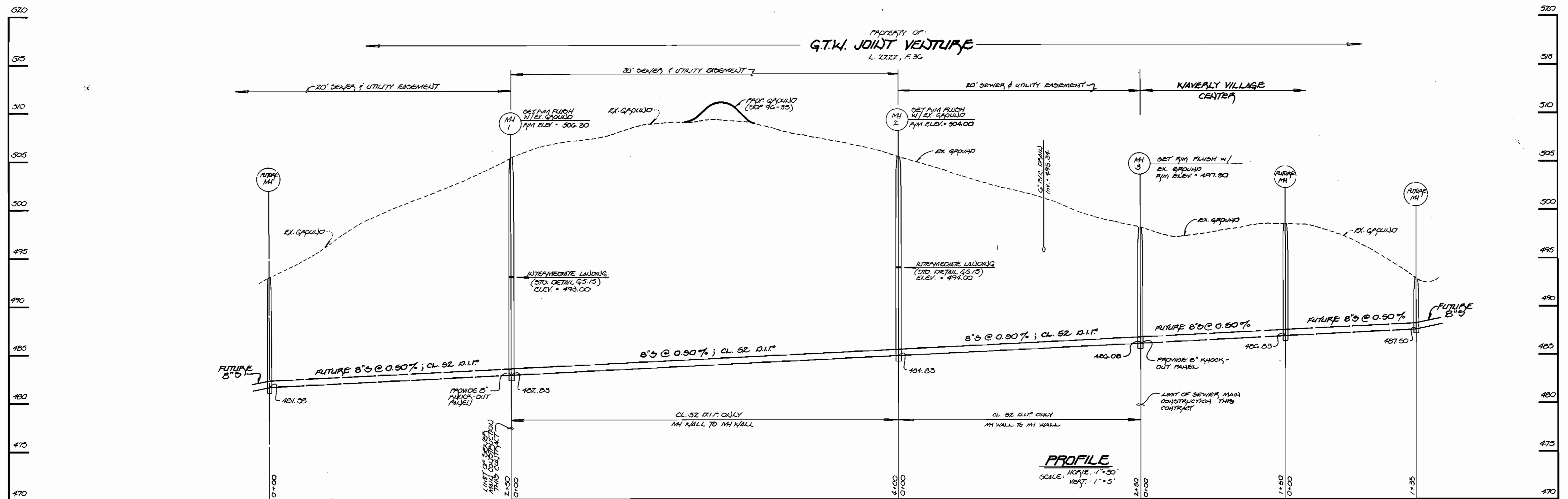
NOTE: SEE SHEET 7 FOR  
 DETAIL OF CONSTRUCTION STRIP  
 AND UTILITY EMBANKMENT

NOTE: SEE SHEET 2 FOR SILT  
 FENCE NOTED & DETAIL  
 OF DELAYED SILT FENCE

CONTRACT NO. 24-3566-D  
 G.T.W.'S WAVERLY WOODS  
 SECTION 5  
 LOT NOS. 1-109 & PARCEL 'A'  
 THIRD ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  Robert W. Bennett CHIEF, BUREAU OF UTILITIES 6-10-97 DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  [Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION 6/16/97 DATE	<b>Fisher, Collins &amp; Carter, Inc.</b> CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK 10272 Baltimore National Pike Ellicott City, Maryland 21042 (410) 461-2855	9757  TERRELL A. FISHER	DESIGNED BY: M.J.M. DRAWN BY: J.M.M. CHECKED BY: P.W.K. DATE: MAY, 1997 BY NO. _____ REVISION _____ DATE _____	<b>SEWER MAIN          PLAN VIEW</b>  600' SCALE MAP NO. 10 BLOCK NO. 11 F.C.C. WORK ORDER NO. 30025 FILE NAME: 13/A	<b>G.T.W.'S WAVERLY WOODS          SECTION 5</b> LOT NOS. 1-109 & PARCEL 'A' CONTRACT NO. 24-3566-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN  SHEET 9 OF 10
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**8" SEWER MAIN CROSSINGS OF GOLF COURSE HOLE No. 13**

CONTRACT No. 24-3566-D  
 G.T.W.'s WAVERLY WOODS  
 SECTION 5  
 LOT Nos. 1-109 & PARCEL 'A'  
 WATER & SEWER MAINS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  Robert W. Beuninger CHIEF, BUREAU OF UTILITIES DATE: 6-10-97	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND  Howard... CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6/16/97	<b>Fisher, Collins &amp; Carter, Inc.</b> CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK 10272 Baltimore National Pike Ellicott City, Maryland 21042 (410) 461-2855	9757  TERRELL A. FISHER	DESIGNED BY: N.J.H. DRAWN BY: J.M.H. CHECKED BY: P.W.K. DATE: MAY, 1997	SEWER MAIN PROFILES 60' SCALE MAP NO. 18 BLOCK NO. 10 F.C.C. WORK ORDER NO. 30025 FILE NAME: I/A	<b>G.T.W.'s WAVERLY WOODS</b> SECTION 5 LOT Nos. 1-109 & PARCEL 'A' CONTRACT NO. 24-3566-D THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 10 OF 10
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