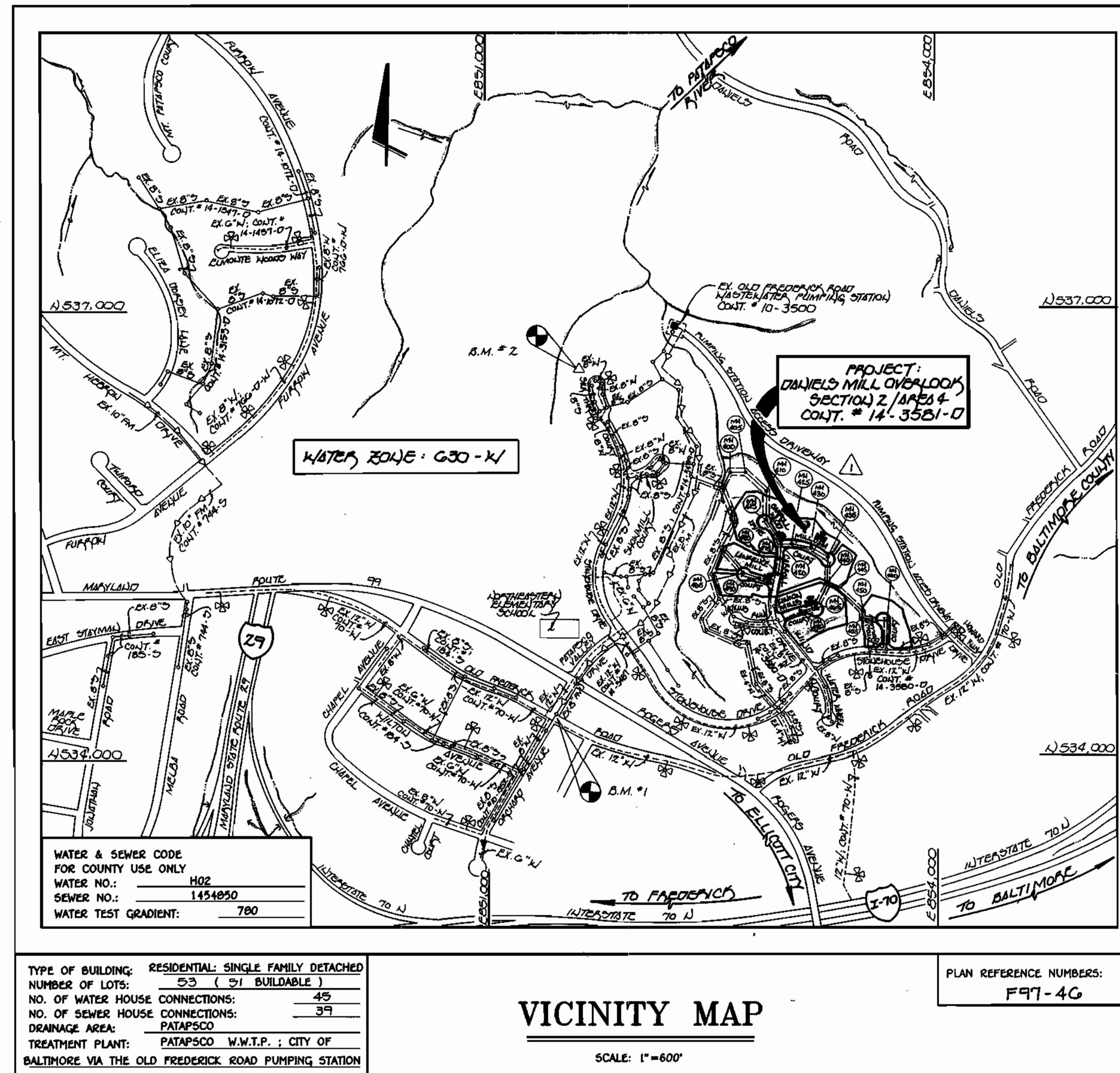


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" DCHER	2300 L.F.	2,300	P.V.C.	J.M. MANIE
8" DCHER D.I.P.	442 L.F.	440	D.I.P.	ATLANTIC STATES
4" DCHER	1,166 L.F.	1,160	P.V.C.	J.M. MANIE
MANHOLES	19 EACH	19 EA	PRECAST	ATLANTIC CONR.
8" WATER	901 L.F.	900	D.I.P.	ATLANTIC STATES
6" WATER	873 L.F.	875 L.F.	D.I.P.	"
1" HHC	477 L.F.	477 L.F.	COPPER	READING CO.
3/4" HHC	790 L.F.	790 L.F.	"	"
PIAC HYDRANTS	4 EACH	4 EA	CENTUION	MUELLER CO.
8" x 8" TEE	2 EACH	2 EA	COMP.	UNION FOUNDRY
8" VALVE	3 EACH	3 EA	RES WEDGE	MUELLER CO.
8" 1/2" H.B.	1 EACH	1 EA	COMP.	UNION FOUNDRY
8" Tee	1 EACH	1 EA	"	"
8" x 6" TEE	4 EACH	4 EA	"	"
8" x 6" REDUCER	1 EACH	1 EA	"	UNION FOUNDRY
8" PLUG & BUTTWELD	1 EACH	1 EA	"	"
6" VALVE	5 EACH	5 EA	RES WEDGE	MUELLER CO.
6" 1/2" H.B.	2 EACH	2 EA	COMP.	UNION FOUNDRY
6" PLUG & BUTTWELD	5 EACH	5 EA	"	"
NAME OF UTILITY CONTRACTOR:				
SURVEY & DRAFTING DIVISION AS-BUILT DATE: 11-26-97				



### 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 - 787-9088
  - MISS 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 18" 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 BUTTWELDED 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 BUTTWELDED 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.

# CONTRACT NO. 14-3581-D

## DANIELS MILL OVERLOOK

### SECTION 2, AREA 4

### LOT NOS. 177 - 229

## WATER AND SEWER MAIN EXTENSIONS

## HOWARD COUNTY, MARYLAND

BENCHMARKS	
BENCHMARK No. 1	ELEV. 481.10
AN EXISTING MANHOLE FROM CONJ. # 10-352-D	
N 534, 516, 001000	E 851, 495, 348000
BENCHMARK No. 2	ELEV. 407.75
THIS WITH STAKE MARKED TRAVELER PT.	
N 336, 742, 560000	E 851, 766, 890000

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

*Cleary Simmons* 2/26/97  
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 P. Peterson* 2/26/97  
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 97-4G.

*Michael J. McCann* FOR RYLAND HOMES 2-24-97  
SIGNATURE OF DEVELOPER DATE

CONTRACT NO. 14-3581-D  
DANIELS MILL OVERLOOK  
SECTION 2, AREA 4  
LOT NOS. 177 - 229  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert D. ...</i> 2-24-97 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>John P. Peterson</i> 2/26/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	<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	DES: H.J.H. DRWN: H.J.H./J.H.M. CHK: P.W.K. DATE: 1-15-97	#9757 TERRELL A. FISHER	REVISIONS: 1. AS-BUILT CONDITIONS ADDED TO PLAN SHEETS 12/1/97 2. REVISE ROAD NAME: "DANIELS MILL" TO "DANIELS MILL" 8/97	TITLE SHEET 600' SCALE MAP NO. 17 BLOCK NO. 12	DANIELS MILL OVERLOOK SECTION 2, AREA 4 LOT NOS. 177 - 229 CONTRACT NO. 14-3581-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 6
--	---	--	--	----------------------------	---	---	---	--------------------------------



NOTE: THE LENGTH OF OPEN TRENCH IS LIMITED TO THREE (3) PIPE LENGTHS OF THAT WHICH SHALL BE BACKFILLED & STABILIZED WITHIN ONE (1) WORKING DAY, WHICHEVER IS SHORTER.

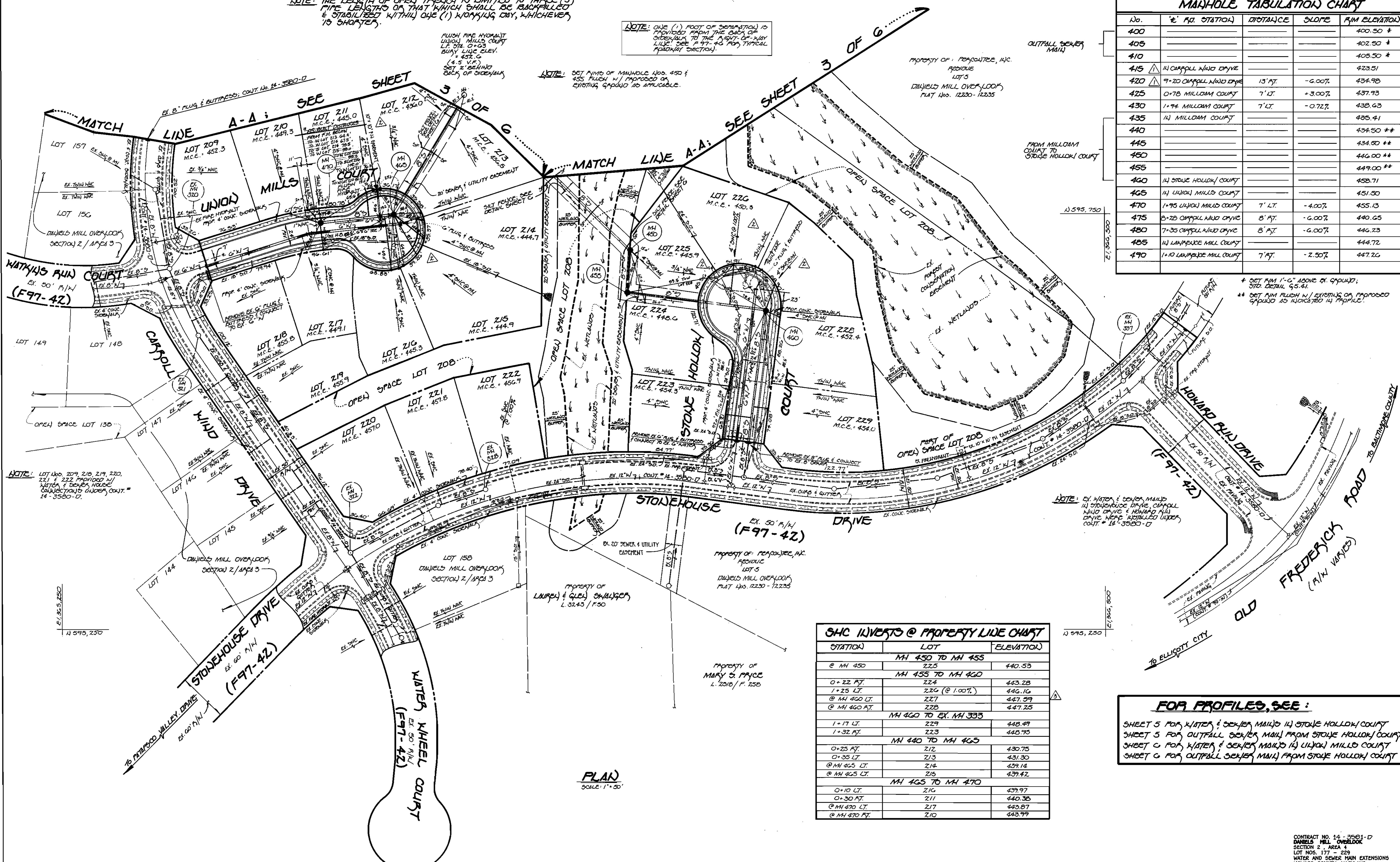
NOTE: ONE (1) FOOT OF SEPARATION IS PROVIDED FROM THE CURB OF SIDEWALK TO THE RIGHT-OF-WAY LINE. SEE F 97-42 FOR TYPICAL ROADWAY SECTION.

NOTE: SET PINS OF MANHOLE NOS. 450 & 455 FLUSH W/ PROPOSED OR EXISTING GRAPUD AS APPLICABLE.

FLUSH PIPE HYDRANT UNION MILLS COURT L.T. 214.014.0 BURY LINE ELEV. 452.0 SET 2' BEHIND BACK OF SIDEWALK

No.	'E' NO. STATION	DISTANCE	SLOPE	RIM ELEVATION
400				400.50 *
405				402.50 *
410				405.50 *
415	14 CARROLL HIND DRIVE			423.51
420	9+20 CARROLL HIND DRIVE	13' RT.	-6.00%	434.98
425	0+75 MILLOAM COURT	7' LT.	+3.00%	437.93
430	1+74 MILLOAM COURT	7' LT.	-0.72%	438.63
435	14 MILLOAM COURT			438.41
440				434.50 **
445				434.50 **
450				446.00 **
455				449.00 **
460	14 STONE HOLLOW COURT			458.71
465	14 UNION MILLS COURT			451.50
470	1+95 UNION MILLS COURT	7' LT.	-4.00%	455.13
475	8+20 CARROLL HIND DRIVE	8' RT.	-6.00%	440.65
480	7+35 CARROLL HIND DRIVE	8' RT.	-6.00%	446.23
485	14 LANFRED MILL COURT			444.72
490	1+10 LANFRED MILL COURT	7' RT.	-2.50%	447.26

\* SET RIM 1'-0" ABOVE EX. GRAPUD, STD. DETAIL 9.5.41  
 \*\* SET RIM FLUSH W/ EXISTING OR PROPOSED GRAPUD AS INDICATED IN PROFILE.



STATION	LOT	ELEVATION
MH 450 TO MH 455		
@ MH 450	225	440.53
MH 455 TO MH 460		
0+22 FT.	224	443.28
1+25 LT.	226 (@ 1.00%)	446.16
@ MH 460 LT.	227	447.99
@ MH 460 RT.	228	447.25
MH 460 TO EX. MH 335		
1+17 LT.	229	448.49
1+32 RT.	223	445.75
MH 460 TO MH 465		
0+25 FT.	212	430.75
0+35 LT.	213	431.30
@ MH 465 LT.	214	429.14
@ MH 465 RT.	215	429.42
MH 465 TO MH 470		
0+10 LT.	216	429.97
0+30 RT.	211	440.36
@ MH 470 LT.	217	443.87
@ MH 470 RT.	210	443.79

**FOR PROFILES, SEE:**  
 SHEET 5 FOR WATER & SEWER MAINS 14 STONE HOLLOW COURT  
 SHEET 5 FOR OUTFALL SEWER MAIN FROM STONE HOLLOW COURT  
 SHEET 6 FOR WATER & SEWER MAINS 14 UNION MILLS COURT  
 SHEET 6 FOR OUTFALL SEWER MAIN FROM STONE HOLLOW COURT

NOTE: LOT NOS. 209, 210, 219, 220, 221 & 222 PROVIDED W/ WATER & SEWER HOUSE CONNECTIONS UNDER COAST # 14-3580-17.

NOTE: EX. WATER & SEWER MAINS 14 STONE HOLLOW DRIVE, CARROLL HIND DRIVE, & HOWARD RD DRIVE WERE INSTALLED UNDER COAST # 14-3580-17.

PLAN SCALE: 1" = 30'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Chief, Bureau of Utilities 2-24-97	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND Chief, Development Engineering Division 2/28/97	<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) 481-2866	DES: M.J.M. DRWN: M.J.M./J.M.H. CHK: P.M.K. DATE: 1-15-97	REV. NO. 1 REVISION: "AS-BUILT" CONDITIONS ADDED TO PLAN DATE: 12/97	REV. NO. 2 REVISION: REVISE SHC CHART FOR "AS-BUILT" LOCATIONS OF SHC'S DATE: 8/97	REV. NO. 3 REVISION: INDICATE "AS-BUILT" LOCATIONS OF VARIOUS WARE'S/DMS'S DATE: 8/97	REV. NO. 4 REVISION: REVISE ROAD NAME: "GRAND MILL" TO "CARROLL WIND" DATE: 8/97	WATER AND SEWER MAINS PLAN VIEW 600' SCALE MAP NO. 17 BLOCK NO. 12	DANIELS MILL OVERLOOK SECTION 2, AREA 4 LOT NOS. 177 - 229 CONTRACT NO. 14 - 3581 - D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 2 OF 6
--	--	--	--	--	--	---	--	--	---	--------------------------------

CONTRACT NO. 14-3581-D  
 DANIELS MILL OVERLOOK  
 SECTION 2, AREA 4  
 LOT NOS. 177 - 229  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND



--- DELETED EXISTING CONTOURS

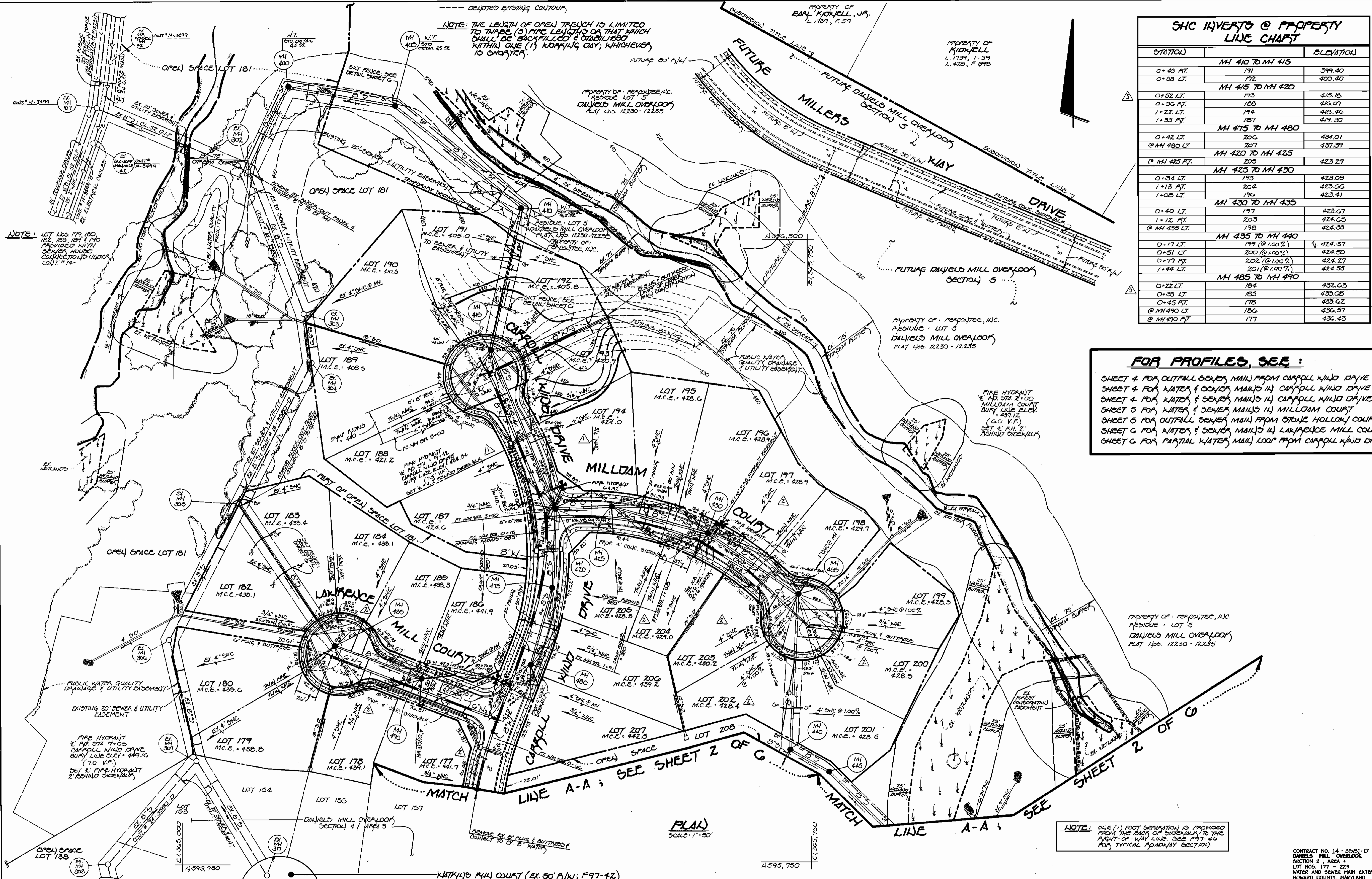
NOTE: THE LENGTH OF OPEN TRENCH IS LIMITED TO THREE (3) PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED & STABILIZED WITHIN ONE (1) WORKING DAY, WHICHEVER IS SHORTER.

**SHC INVERTS @ PROPERTY LINE CHART**

STATION	MH 410 TO MH 415	ELEVATION
0+45 FT.	171	399.40
0+55 FT.	172	400.40
<b>MH 415 TO MH 420</b>		
0+52 FT.	173	415.18
0+56 FT.	188	416.09
1+22 FT.	194	418.46
1+35 FT.	187	419.30
<b>MH 425 TO MH 480</b>		
0+42 FT.	206	434.01
@ MH 480 FT.	207	437.39
<b>MH 420 TO MH 425</b>		
@ MH 425 FT.	205	423.29
<b>MH 425 TO MH 430</b>		
0+34 FT.	193	423.08
1+13 FT.	204	423.66
1+08 FT.	196	423.41
<b>MH 430 TO MH 435</b>		
0+40 FT.	197	423.67
1+12 FT.	203	424.65
@ MH 435 FT.	198	424.35
<b>MH 435 TO MH 440</b>		
0+17 FT.	199 (@1.00%)	424.37
0+51 FT.	200 (@1.00%)	424.50
0+77 FT.	202 (@1.00%)	424.27
1+44 FT.	201 (@1.00%)	424.55
<b>MH 485 TO MH 490</b>		
0+22 FT.	184	432.03
0+33 FT.	185	433.08
0+45 FT.	178	433.62
@ MH 490 FT.	186	436.57
@ MH 490 FT.	177	436.43

**FOR PROFILES, SEE :**

- SHEET 4 FOR OUTFALL SEWER MAIN FROM CARROLL WIND DRIVE
- SHEET 4 FOR WATER & SEWER MAINS IN CARROLL WIND DRIVE
- SHEET 4 FOR WATER & SEWER MAINS IN CARROLL WIND DRIVE
- SHEET 5 FOR WATER & SEWER MAINS IN MILLOAM COURT
- SHEET 5 FOR OUTFALL SEWER MAIN FROM STRAHE HOLLOW COURT
- SHEET 6 FOR WATER & SEWER MAINS IN LAWRENCE MILL COURT
- SHEET 6 FOR PARTIAL WATER MAIN LOOP FROM CARROLL WIND DRIVE



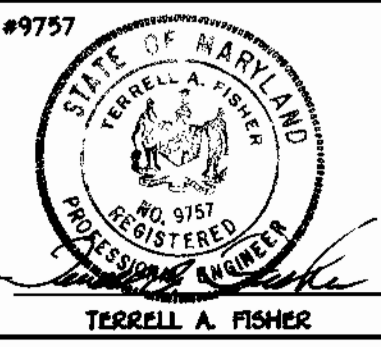
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*R. J. ...*  
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



DES: M.J.M.	DATE: 1-15-97
DRWN: M.J.M./J.H.H.	REVISION: 12/97
CHK: P.W.K.	REVISION: 8/97
DATE: 1-15-97	REVISION: 8/97
BY NO.	REVISION

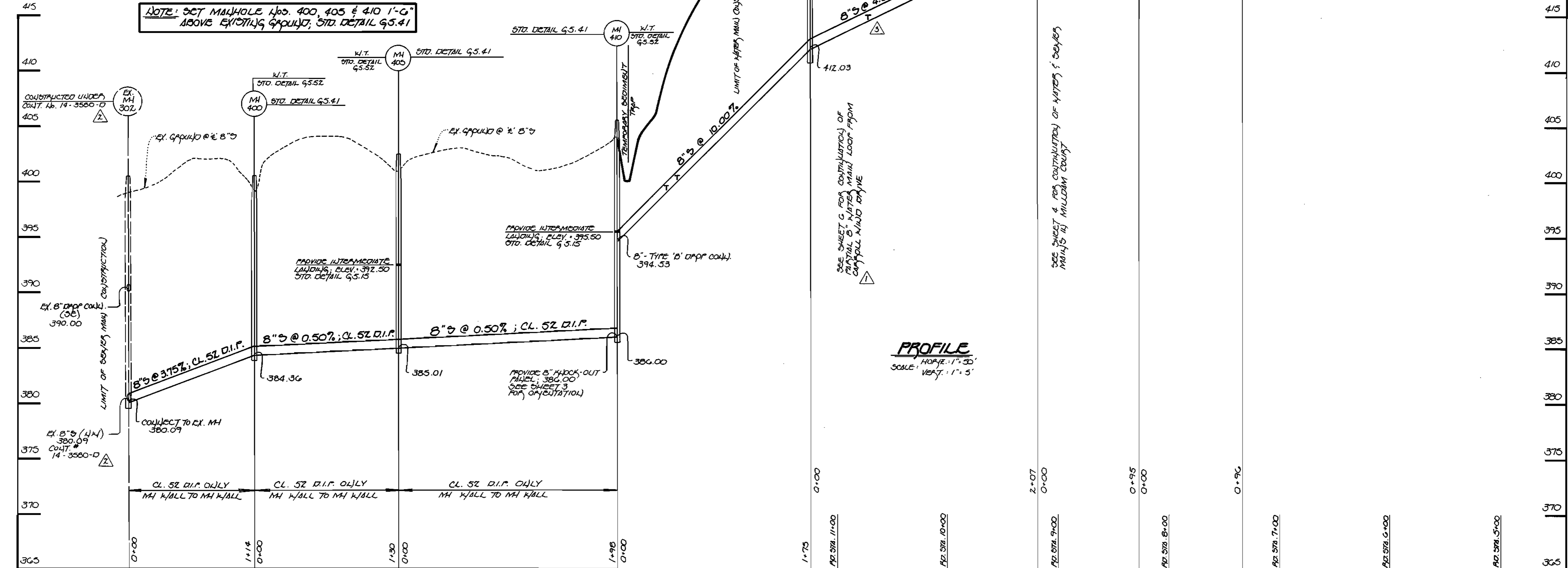
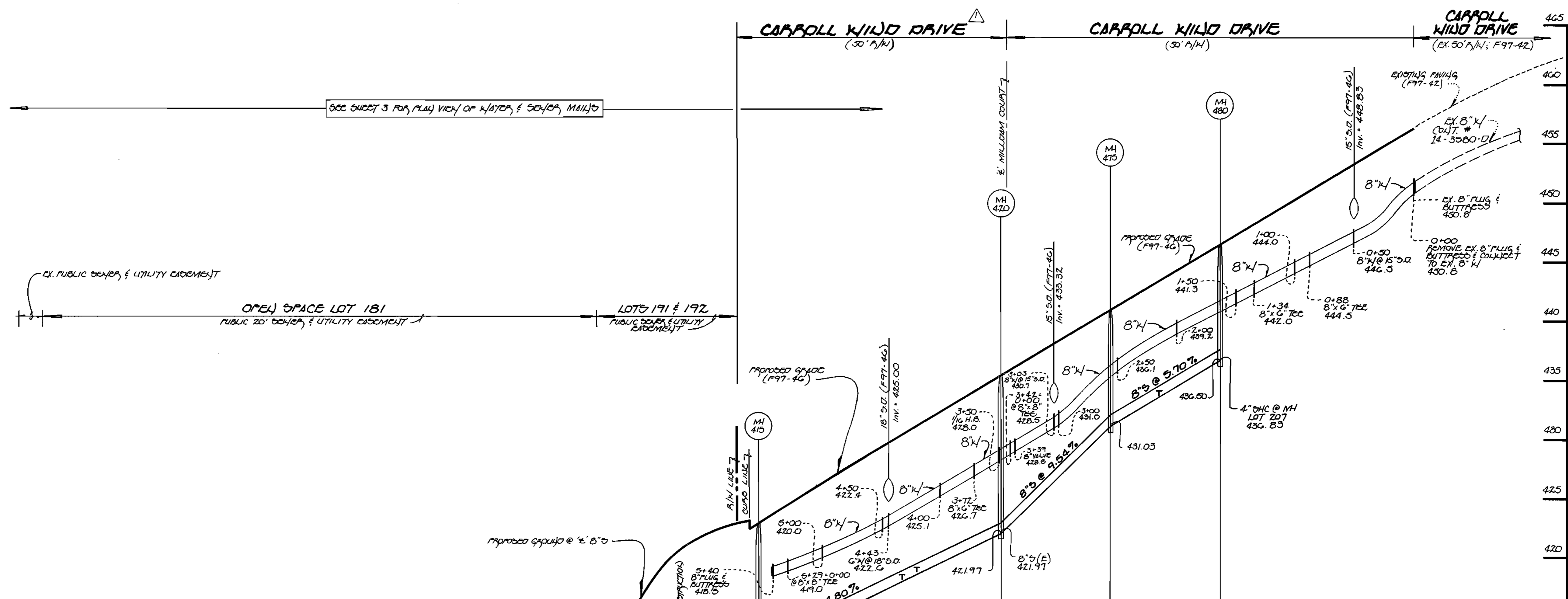
**WATER AND SEWER MAINS PLAN VIEW**

60' SCALE MAP NO. 17 BLOCK NO. 12

**DANIELS MILL OVERLOOK**  
SECTION 2, AREA 4  
LOT NOS. 177 - 229  
CONTRACT NO. 14-3581-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 3 OF 6





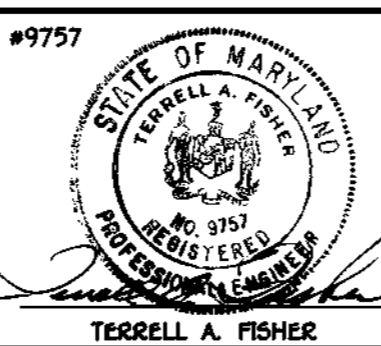
**8-INCH OUTFALL SEWER MAIN** **WATER & SEWER MAINS: CARROLL WIND DRIVE**

CONTRACT NO. 14-3581-D  
DANIELS MILL OVERLOOK  
SECTION 2 - AREA 4  
LOT NOS. 177 - 229  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
R. J. ... 2-24-97  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
  
... 2/20/97  
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) 461-2866

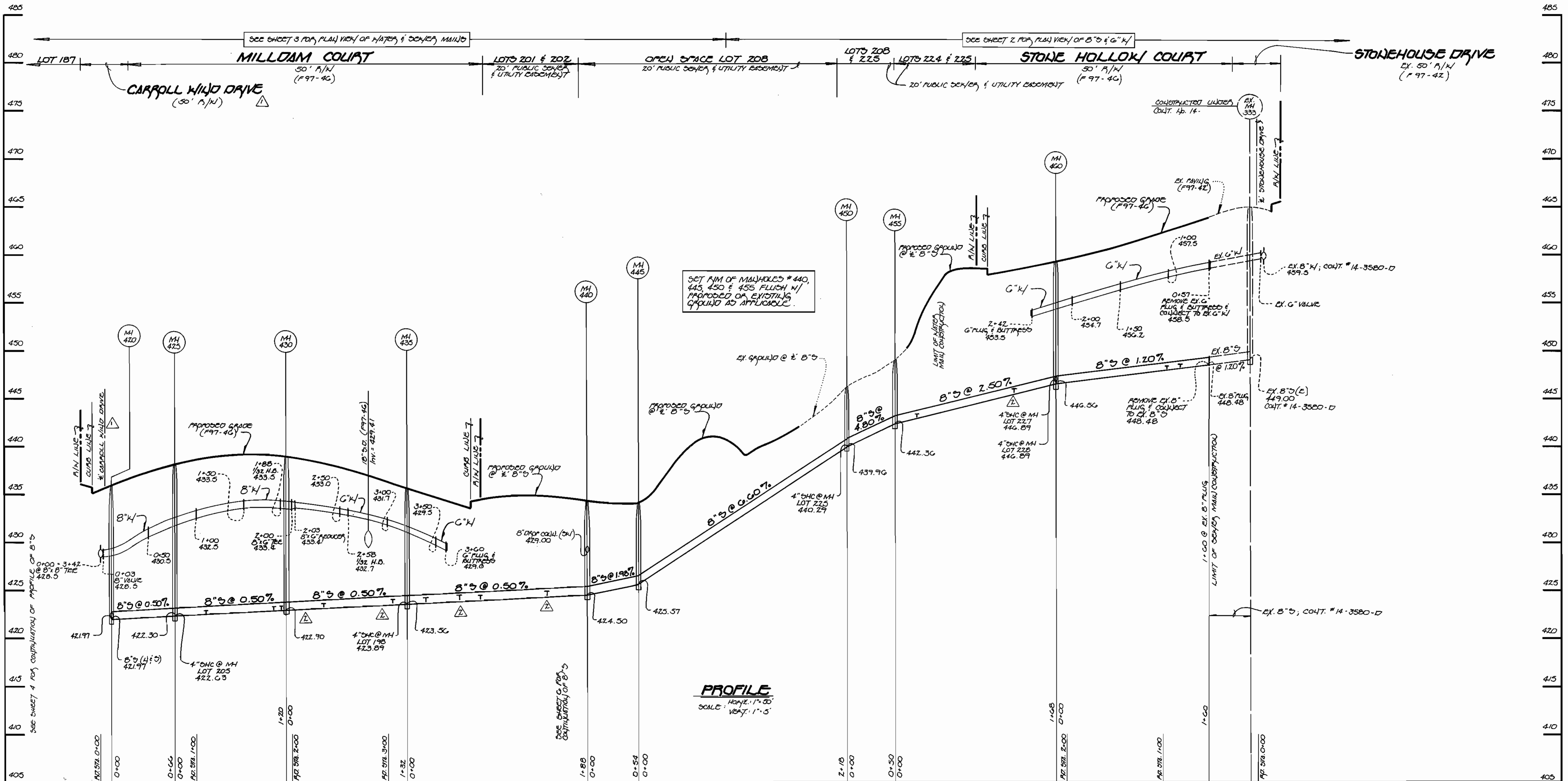


DES: H.J.M.			
DRWN: J.M.M.			
CHK: P.W.K.	F.C.C. (A) INDICATE 'AD-BUILT' LOCATION OF OMC	8/97	
DATE: 1-10-97	F.C.C. (A) INDICATE EXISTING CONTRACT NUMBER "14-3580-D"	8/97	
	F.C.C. (A) REVERSE ROAD NAME: "DANIELS MILL" TO CARROLL WIND DRIVE	8/97	
BY NO.	REVISION	DATE	

**WATER AND SEWER MAINS PROFILES**  
600' SCALE MAP NO. 17 BLOCK NO. 12

**DANIELS MILL OVERLOOK**  
SECTION 2, AREA 4  
LOT NOS. 177 - 229  
CONTRACT NO. 14-3581-D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 4 OF 6



SET RIM OF MANHOLES # 440, 443, 450 & 455 FLUSH W/ PROPOSED OR EXISTING GROUND AS APPLICABLE.

**PROFILE**  
 HORIZ. 1" = 50'  
 VERT. 1" = 5'

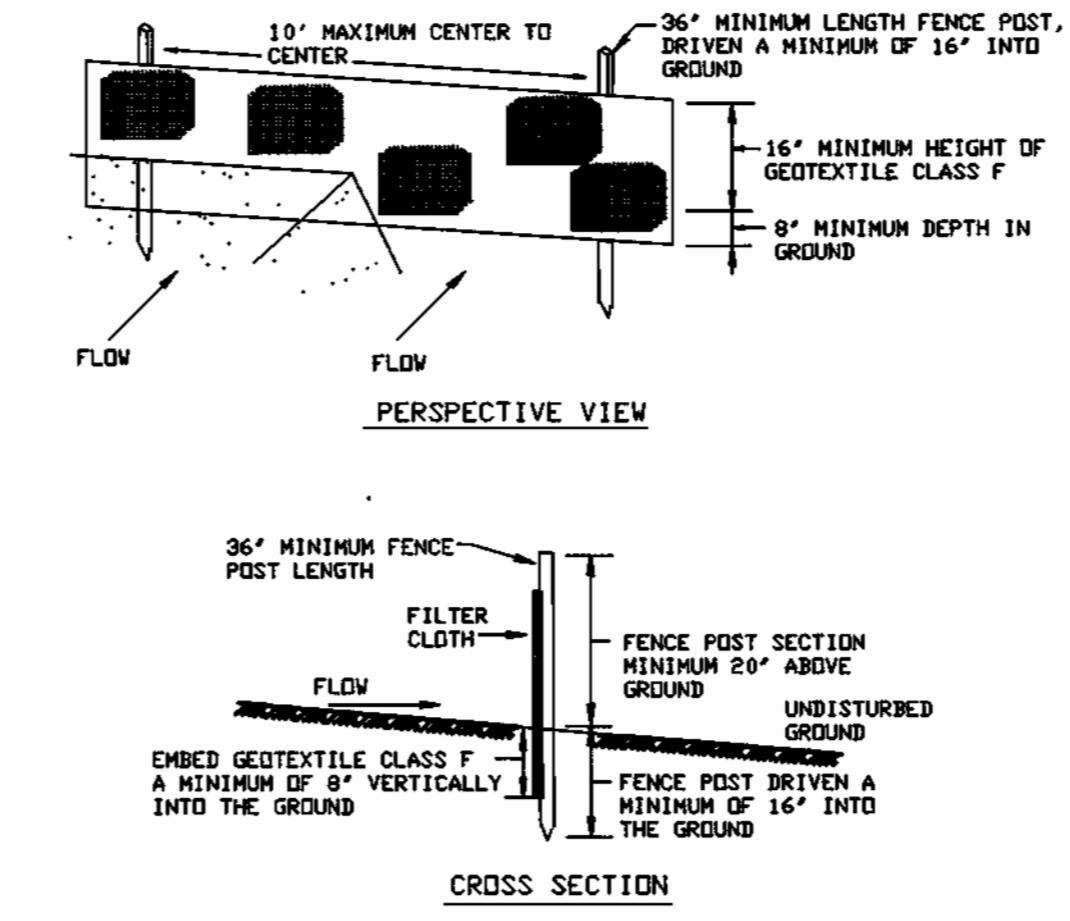
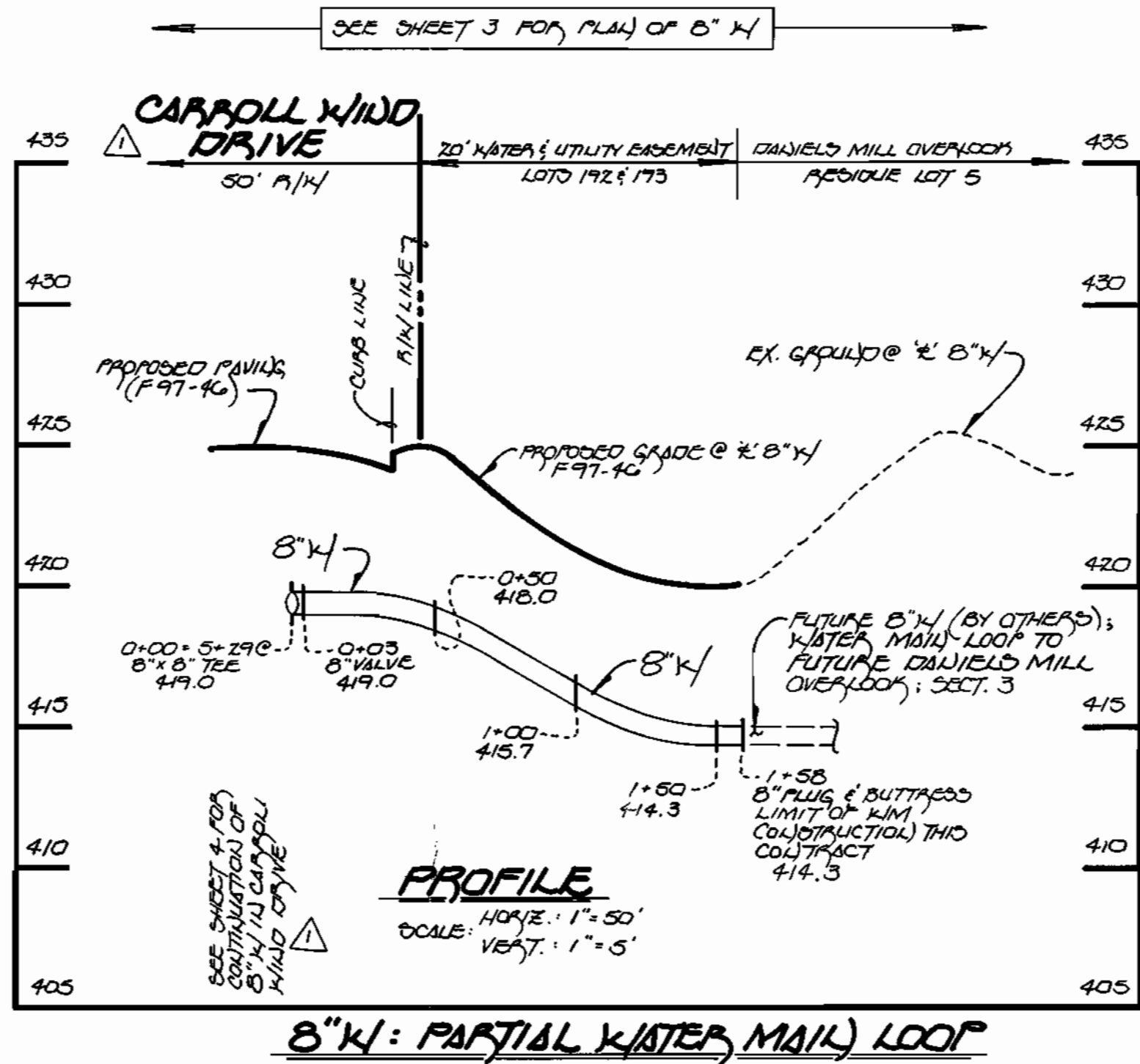
**WATER & SEWER MAINS: MILLDAM COURT & STONE HOLLOW COURT**

CONTRACT NO. 14-3581-D  
 DANIELS MILL OVERLOOK  
 SECTION 2, AREA 4  
 LOT NOS. 177 - 229  
 WATER AND SEWER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND R. H. ... 2-24-97 CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND ... 2/20/97 CHIEF, DEVELOPMENT ENGINEERING DIVISION	<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) 481-2855		DES: J.M.H. DRWN: J.M.H. CHK: P.W.K. DATE: 1-15-97 F.C.C. INDICATE "AD-BUILT" LOCATION OF VARIOUS CHC'S 8/97 F.C.C. REVISE ROAD NAME: "GRAND MILL" TO "CARROLL WIND" 8/97	WATER AND SEWER MAINS PROFILES 600' SCALE MAP NO. 17 BLOCK NO. 12	<b>DANIELS MILL OVERLOOK</b> SECTION 2, AREA 4 LOT NOS. 177 - 229 CONTRACT NO. 14-3581-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 5 OF 6
--	--	---	--	--	---	--

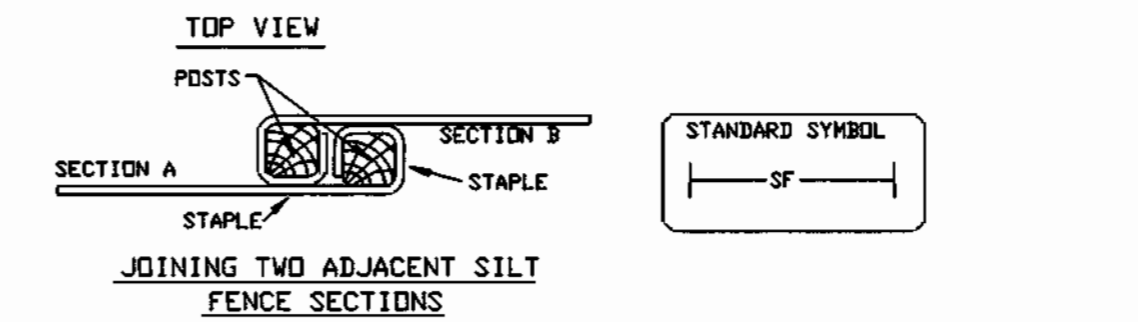


WATER MAIN TABULATION CHART	
APPURTENANCE	LOCATION
<b>STONE HOLLOW COURT</b>	
EX. G' PLUG & BUTTWELD	E. AD. STA. 0+50; 7' LEFT
G' PLUG & BUTTWELD	L.F. STA. 1+80; 10' RIGHT
<b>UNION MILLS COURT</b>	
EX. G' PLUG & BUTTWELD	E. AD. STA. 0+30; 7' RIGHT
1/32" H.B.	E. AD. STA. 1+80; 3' RIGHT
G' PLUG & BUTTWELD	L.F. STA. 1+25; 15' RIGHT
<b>LAKELUXE MILL COURT</b>	
8" x G' TEE	E. AD. STA. 0+07; 7' LEFT
G' VALVE	E. AD. STA. 0+10; 7' LEFT
G' PLUG & BUTTWELD	L.F. STA. 1+00; 31' RIGHT
<b>CARROLL WIND DRIVE</b>	
POINT OF TANGENCY	E. AD. STA. 6+35; 7' LEFT
8" x G' TEE	E. AD. STA. 6+58; 7' LEFT
G' VALVE	E. AD. STA. 6+58; 10' LEFT
8" x G' F.H. TEE	E. AD. STA. 7+03; 5' LEFT
G' VALVE	E. AD. STA. 7+03; 11' LEFT
POINT OF CURVATURE	E. AD. STA. 7+00; 8' LEFT
8" x 8" TEE	E. AD. STA. 9+12; 04' E.
8" VALVE	E. AD. STA. 9+12; 3' RIGHT
<b>MILLIAM COURT</b>	
1/16" H.B.	E. AD. STA. 9+21; 04' E.
8" x G' F.H. TEE	E. AD. STA. 9+42; 4' LEFT
G' VALVE	E. AD. STA. 9+42; 1' LEFT
8" x 8" TEE	L.F. STA. 0+70; 45' LEFT
8" PLUG & BUTTWELD	L.F. STA. 1+01; 27' RIGHT
<b>MILLIAM COURT</b>	
8" VALVE	E. AD. STA. 0+03; 3' RIGHT
POINT OF CURVATURE	E. AD. STA. 0+15; 7' RIGHT
POINT OF TANGENCY	E. AD. STA. 1+08; 7' RIGHT
1/32" H.B.	E. AD. STA. 1+88; 6' RIGHT
8" x G' TEE	E. AD. STA. 2+00; 8' RIGHT
G' VALVE	E. AD. STA. 2+00; 5' RIGHT
8" x G' REDUCER	E. AD. STA. 2+03; 8' RIGHT
1/32" H.B.	E. AD. STA. 2+59; 6' RIGHT
G' PLUG & BUTTWELD	L.F. STA. 1+30; 20' RIGHT



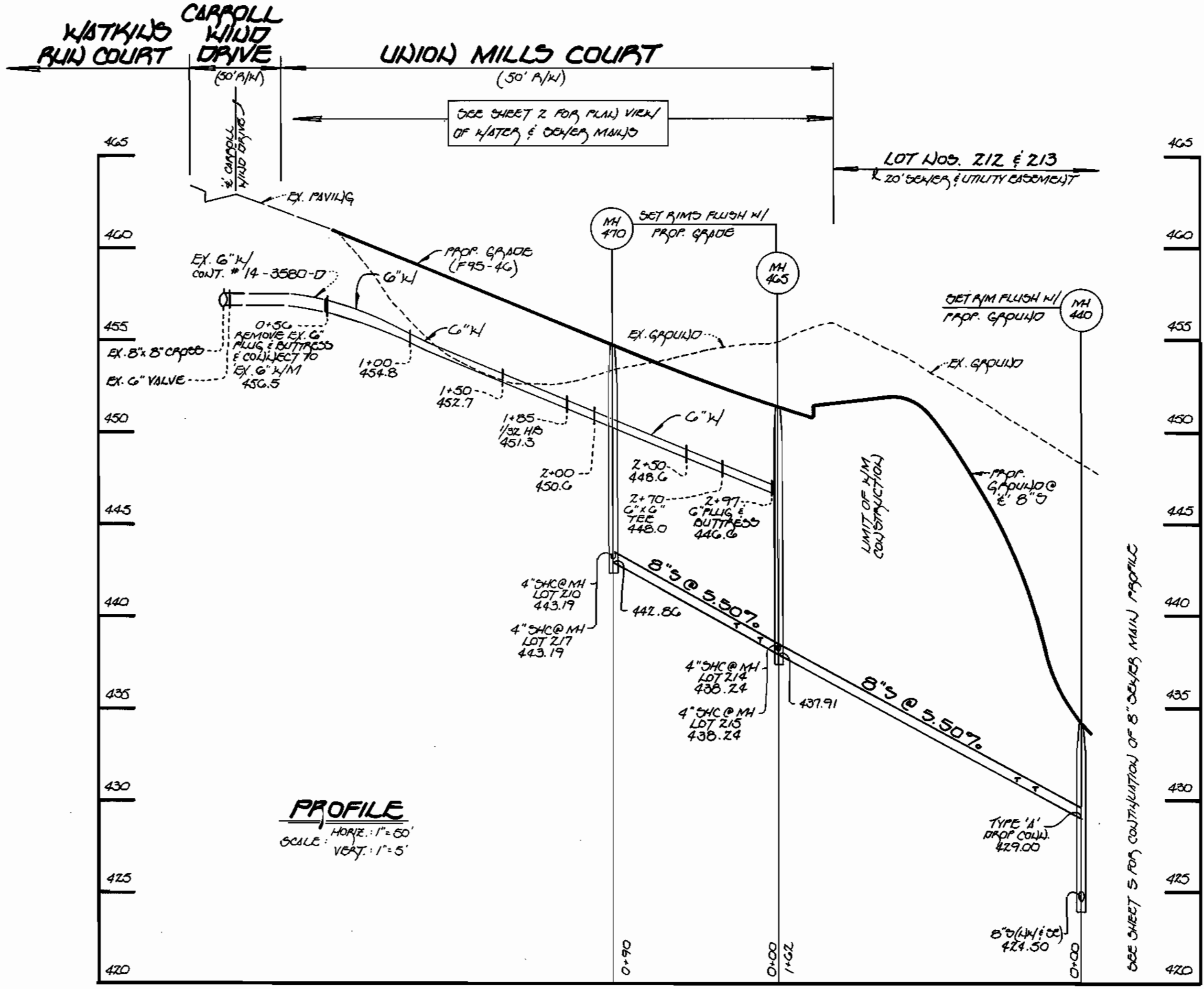
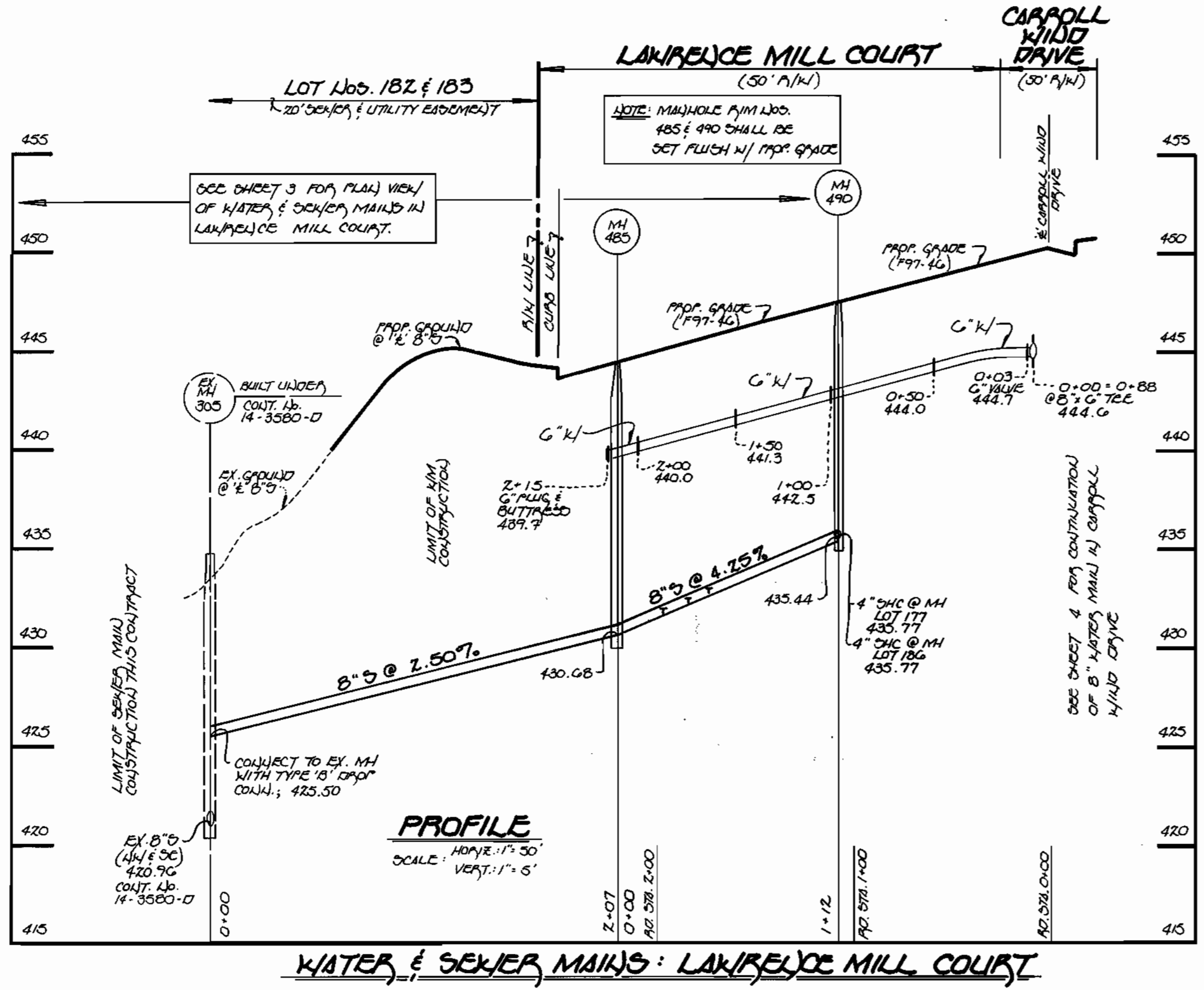
- Construction Specifications**
- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not 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 mid-section 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	8.3 gal ft <sup>2</sup> /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322
  - 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.



**SILT FENCE**  
NOT TO SCALE

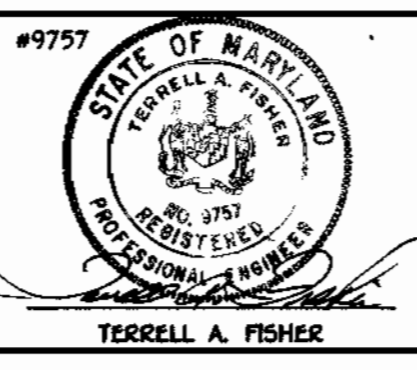
- NOTES:** SEE PLAN SHEETS 2 & 5 FOR LOCATIONS OF SILT FENCE. SILT FENCE SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:
- 8" HIGH SINKER MAIN FROM MILLIAM COURT TO STONE HOLLOW COURT
  - 8" HIGH OUTFALL SINKER MAIN FROM UNION MILLS COURT
  - 8" HIGH OUTFALL SINKER MAIN FROM LAKELUXE MILL COURT
  - 8" HIGH OUTFALL SINKER MAIN FROM CARROLL WIND DRIVE



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
2-24-97  
DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
2/28/97  
DATE

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



DES: M.J.M.	
DRWN: J.H.M.	
CHK: P.W.K.	
DATE: 1-15-97	
F.C.C.	REVISION
BY NO.	REVISION

WATER AND SEWER MAINS PROFILES  
600' SCALE MAP NO. 17 BLOCK NO. 12

**DANIELS MILL OVERLOOK**  
SECTION 2, AREA 4  
LOT NOS. 177 - 229  
CONTRACT NO. 14 - 3581 - D  
SECOND ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 6 OF 6