
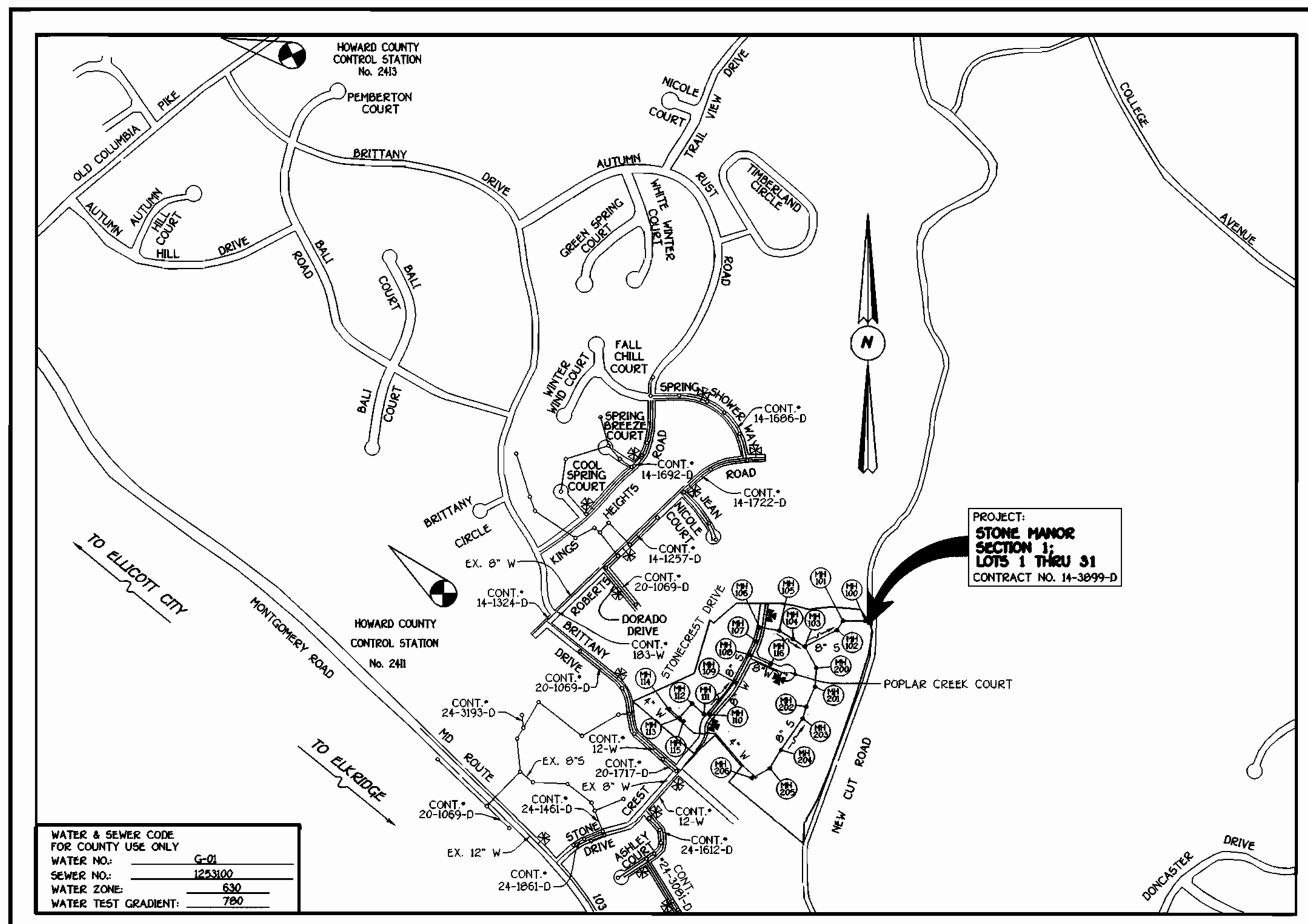


GENERAL NOTES

- 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
 - M&S 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.
- HOUSES 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 (W111 AND W213). 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(K) OF THE HOWARD COUNTY CODE.

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" WATER	1349.00 L.F.			
6" WATER	64.00 L.F.			
4" WATER	772.00 L.F.			
FIRE HYDRANTS	3 EACH			
OUTSIDE METER SETTINGS	4 EACH			
1-1/2" DRAINS	2 EACH			
8" SEWER	2198.75 L.F.			
8" SEWER (D.I.P.)	807.66 L.F.			
4" SEWER	478 L.F.			
MANHOLES	24 EACH			
1-1/2" WATER	64 L.F.			
1" WATER	667 L.F.			
8" X 8" TEE	1 EACH			
8" X 6" TEE	3 EACH			
8" X 4" TEE	2 EACH			
8" VALVE	3 EACH			
6" VALVE	3 EACH			
4" VALVE	2 EACH			
8"-1/8" H.B.	2 EACH			
8"-1/16" H.B.	2 EACH			
8"-1/32" H.B.	2 EACH			
4"-1/8" H.B.	1 EACH			
4"-1/16" H.B.	1 EACH			
4"-1/32" H.B.	2 EACH			
8" PLUG & BUTTRESS	2 EACH			
4" PLUG & BUTTRESS	2 EACH			

NAME OF UTILITY CONTRACTOR: _____
 SURVEY & DRAFTING DIVISION AS-BUILT DATE: _____



WATER & SEWER CODE FOR COUNTY USE ONLY	
WATER NO.	G-01
SEWER NO.	123100
WATER ZONE	530
WATER TEST GRADIENT	700

TYPE OF BUILDING	RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS & PARCELS	31 (28 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS	28
NO. OF SEWER HOUSE CONNECTIONS	28
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO WASTEWATER TREATMENT PLANT VIA THE NEW CUT ROAD PUMPING STATION

PLAN REFERENCE NUMBERS:
SP 98-15, F00-54

VICINITY MAP

SCALE: 1"=600'

CONTRACT No. 14-3899-D
STONE MANOR

SECTION 1
LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."

Paul W. Roubel FOR: **STONECREST MANOR, L.L.C.** 06/14/01
 SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."

J. McCann 6/14/01
 SIGNATURE OF ENGINEER DATE

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

Jim Meyers 6/22/01
 U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John K. Roberts 6/22/01
 HOWARD SOIL CONSERVATION DISTRICT DATE

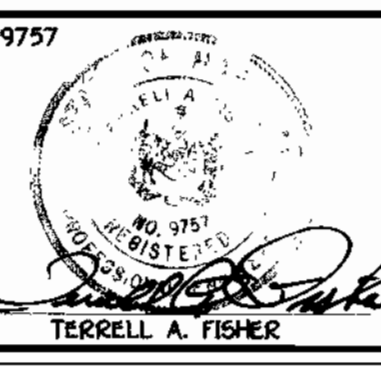
SEDMIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON F00-54 AND ON THESE PLANS.

Paul W. Roubel FOR: **STONECREST MANOR, L.L.C.** 06/14/01
 SIGNATURE OF DEVELOPER DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Michael D. ... 6-18-01
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 ... 6/20/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 8272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21117
 1800 461 - 2555



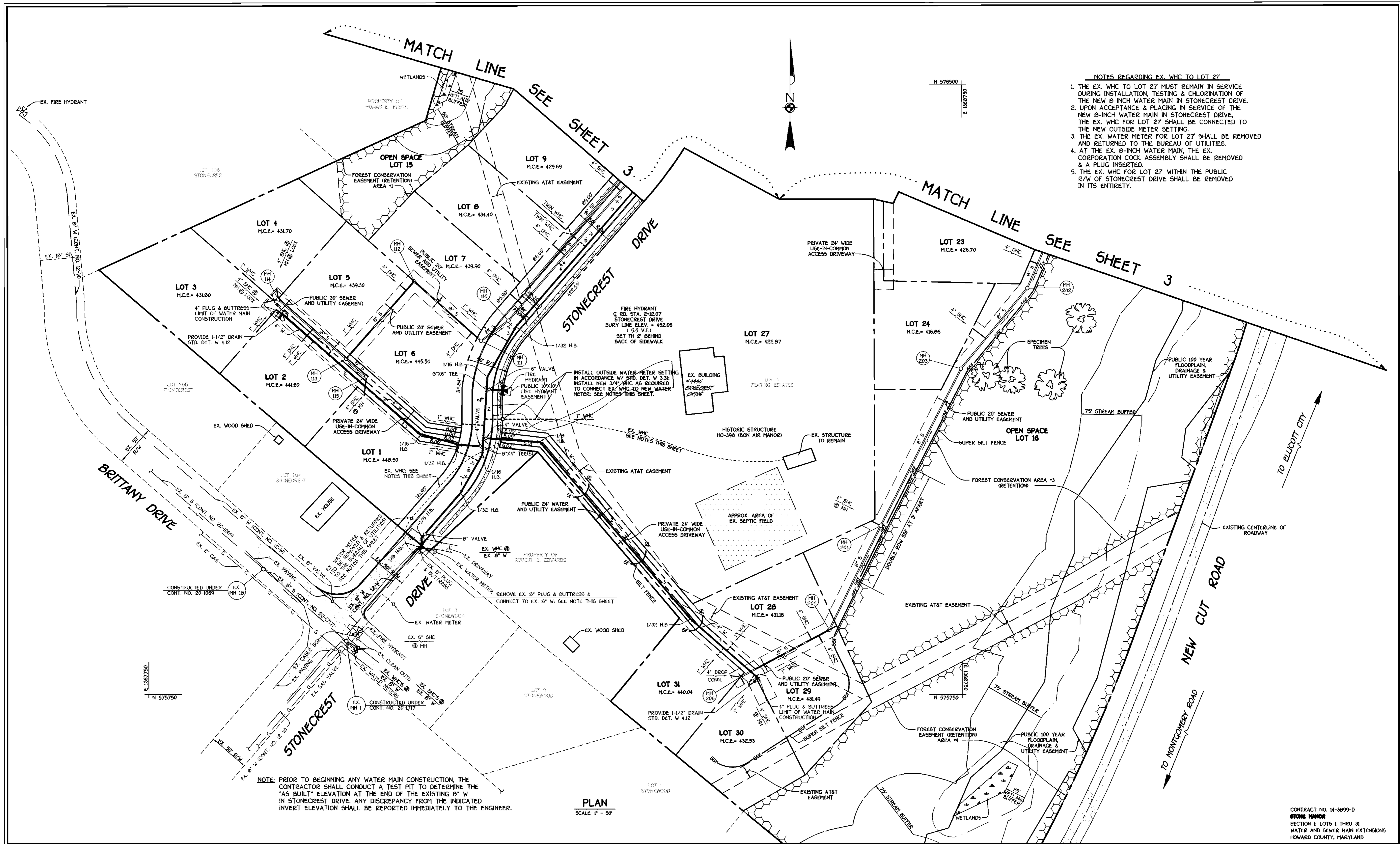
DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.K.
DATE:	JUNE, 2001
BY NO.	
REVISION	
DATE	

TITLE SHEET	
600' SCALE MAP NO.	31
BLOCK NO.	1
F.C.C. WORK ORDER NO.	30615
FILE NAME:	30615 FINAL WATER AND SEWER TITLE SHEET 1

STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 CONTRACT NO. 14-3899-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 8

CONTRACT NO. 14-3899-D
STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND



- NOTES REGARDING EX. WHC TO LOT 27**
1. THE EX. WHC TO LOT 27 MUST REMAIN IN SERVICE DURING INSTALLATION, TESTING & CHLORINATION OF THE NEW 8-INCH WATER MAIN IN STONECREST DRIVE.
 2. UPON ACCEPTANCE & PLACING IN SERVICE OF THE NEW 8-INCH WATER MAIN IN STONECREST DRIVE, THE EX. WHC FOR LOT 27 SHALL BE CONNECTED TO THE NEW OUTSIDE METER SETTING.
 3. THE EX. WATER METER FOR LOT 27 SHALL BE REMOVED AND RETURNED TO THE BUREAU OF UTILITIES.
 4. AT THE EX. 8-INCH WATER MAIN, THE EX. CORPORATION COCK ASSEMBLY SHALL BE REMOVED & A PLUG INSERTED.
 5. THE EX. WHC FOR LOT 27 WITHIN THE PUBLIC R/W OF STONECREST DRIVE SHALL BE REMOVED IN ITS ENTIRETY.

NOTE: PRIOR TO BEGINNING ANY WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A TEST PIT TO DETERMINE THE "AS BUILT" ELEVATION AT THE END OF THE EXISTING 8" W IN STONECREST DRIVE. ANY DISCREPANCY FROM THE INDICATED INVERT ELEVATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

PLAN
SCALE: 1" = 50'

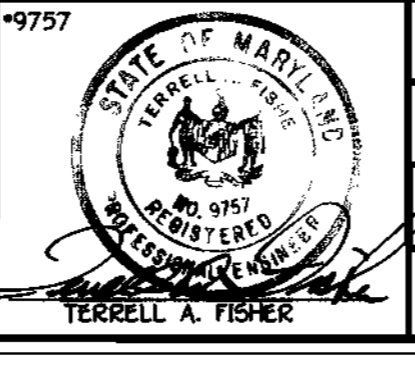
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael 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
CENTRAL SQUARE OFFICE PARK - 8272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
410.461.2955



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JUNE, 2001
BY NO.	
REVISION	
DATE	

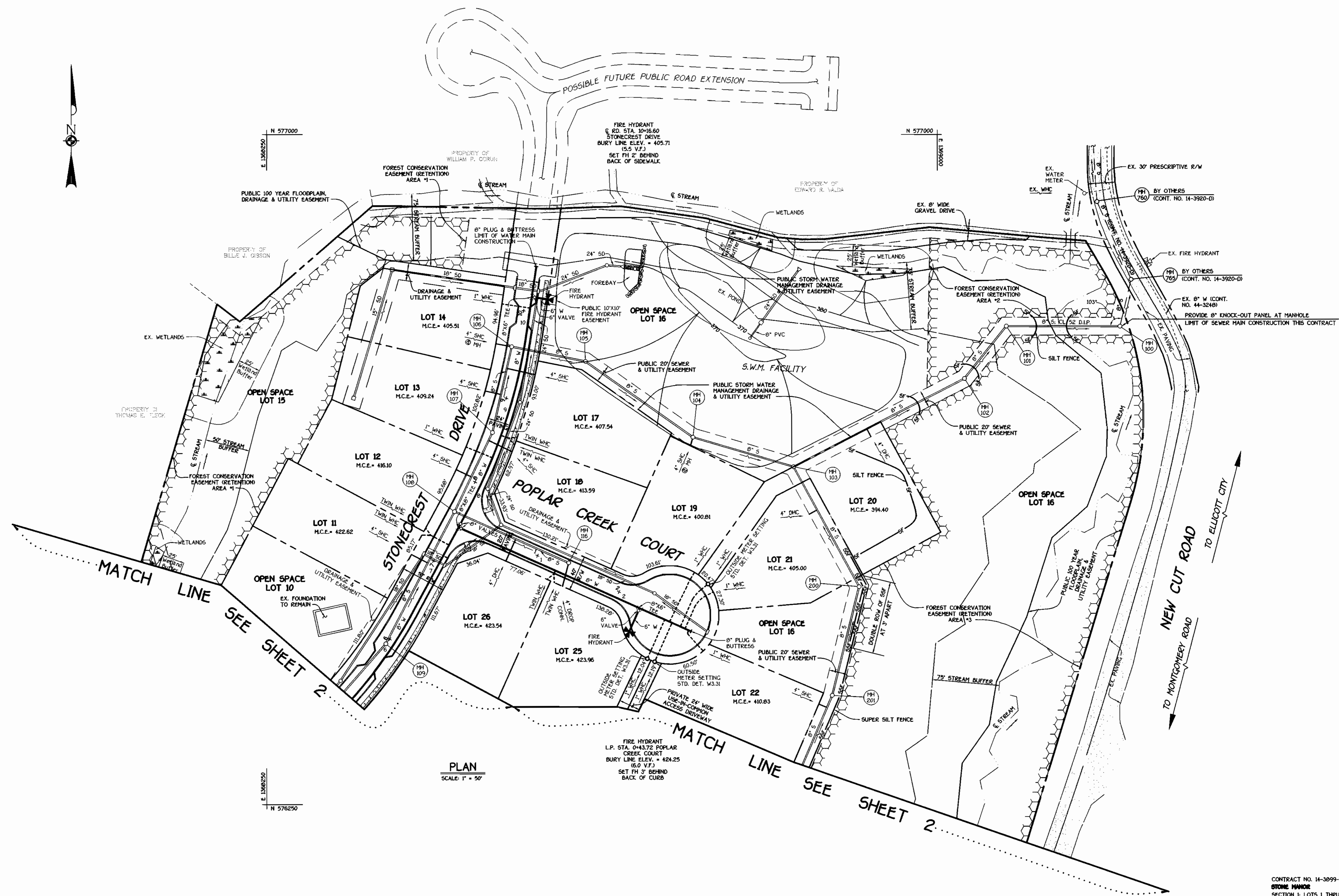
**WATER AND SEWER MAINS
PLAN VIEW**

600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30812

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3099-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 8

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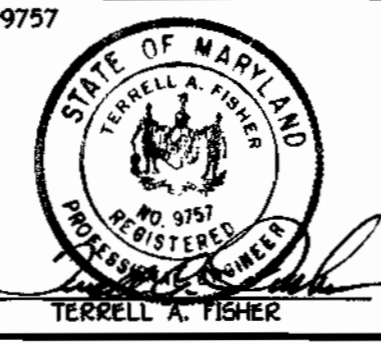
PLAN
SCALE: 1" = 50'

CONTRACT NO. 14-3899-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

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

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Michael A. Simon
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 3922 BALTIMORE NATIONAL FIRE
ELLCOTT CITY, MARYLAND 21114
(410) 461-2895



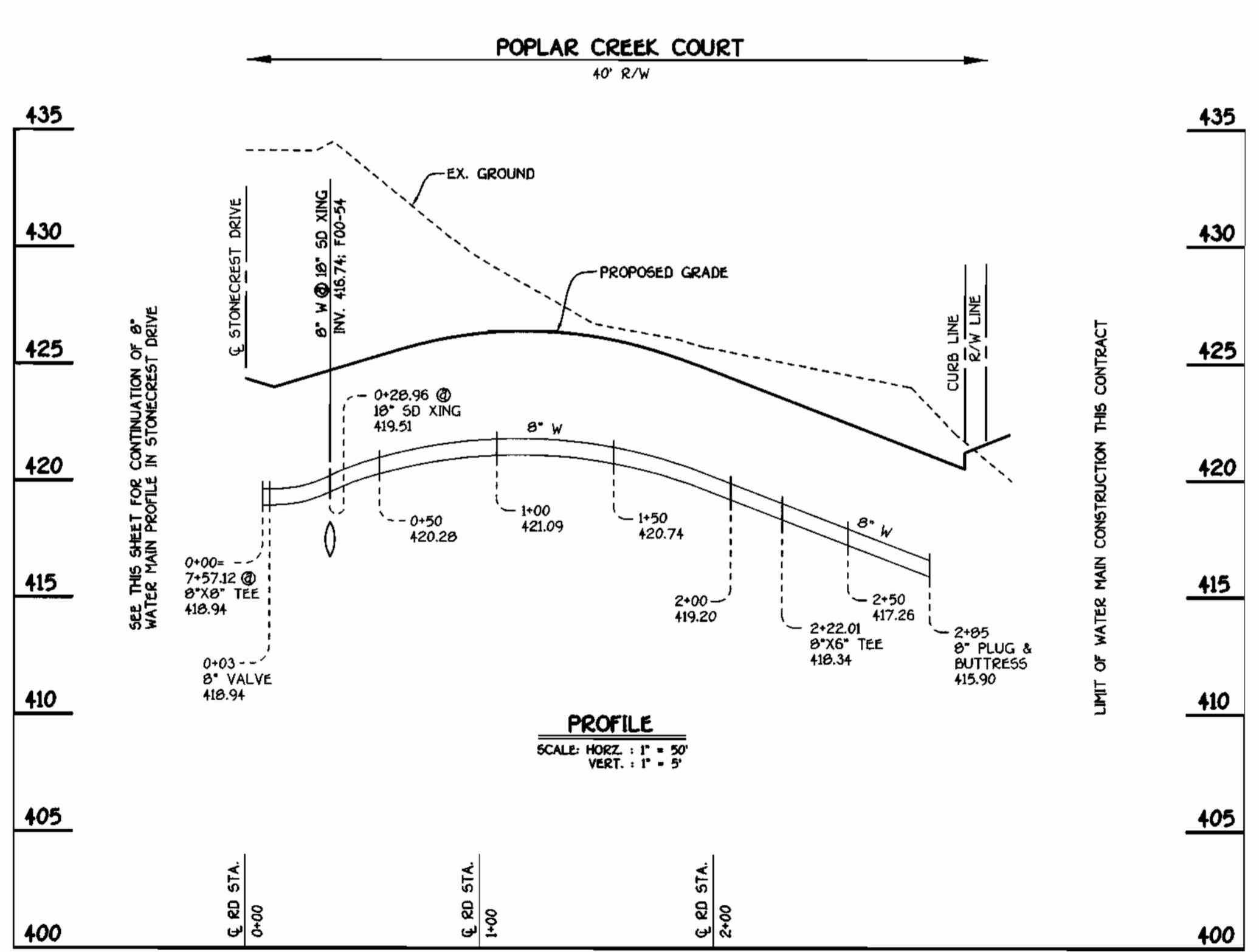
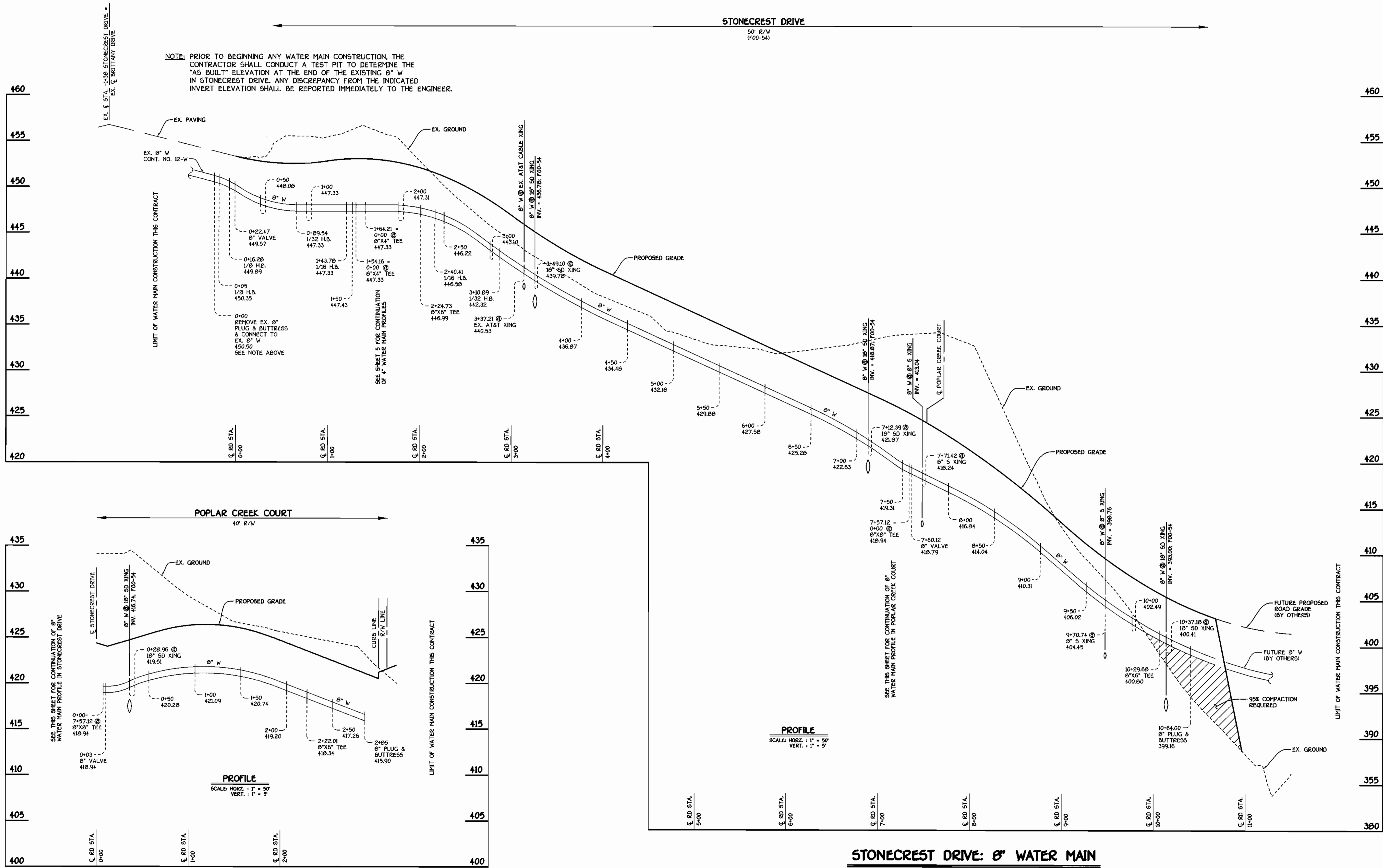
DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JUNE, 2001
BY NO.	
REVISION	

WATER AND SEWER MAINS
PLAN VIEW
600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL WATER AND SEWER PLAN SHT. 3

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 8

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POPLAR CREEK COURT: 8" WATER MAIN

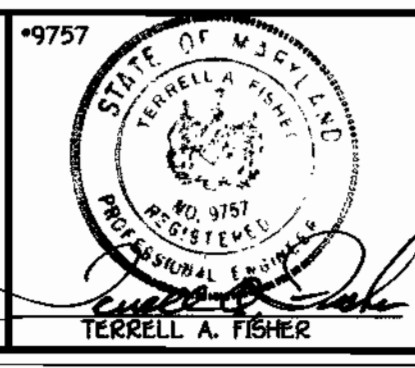
STONECREST DRIVE: 8" WATER MAIN

CONTRACT NO. 14-3699-D
STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 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
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PKWY
 CLLETT CITY, MARYLAND 21046
 410.466.2855



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.K.
DATE:	JUNE, 2001
BY NO.	REVISION
DATE	

WATER MAINS PROFILES	
600' SCALE MAP NO. 31	BLOCK NO. 1
F.C.C. WORK ORDER NO. 30612	
FILE NAME: 30615 FINAL WATER MAIN PROFILES SH4	

STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 CONTRACT NO. 14-3699-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN
 SHEET
 4 of 8

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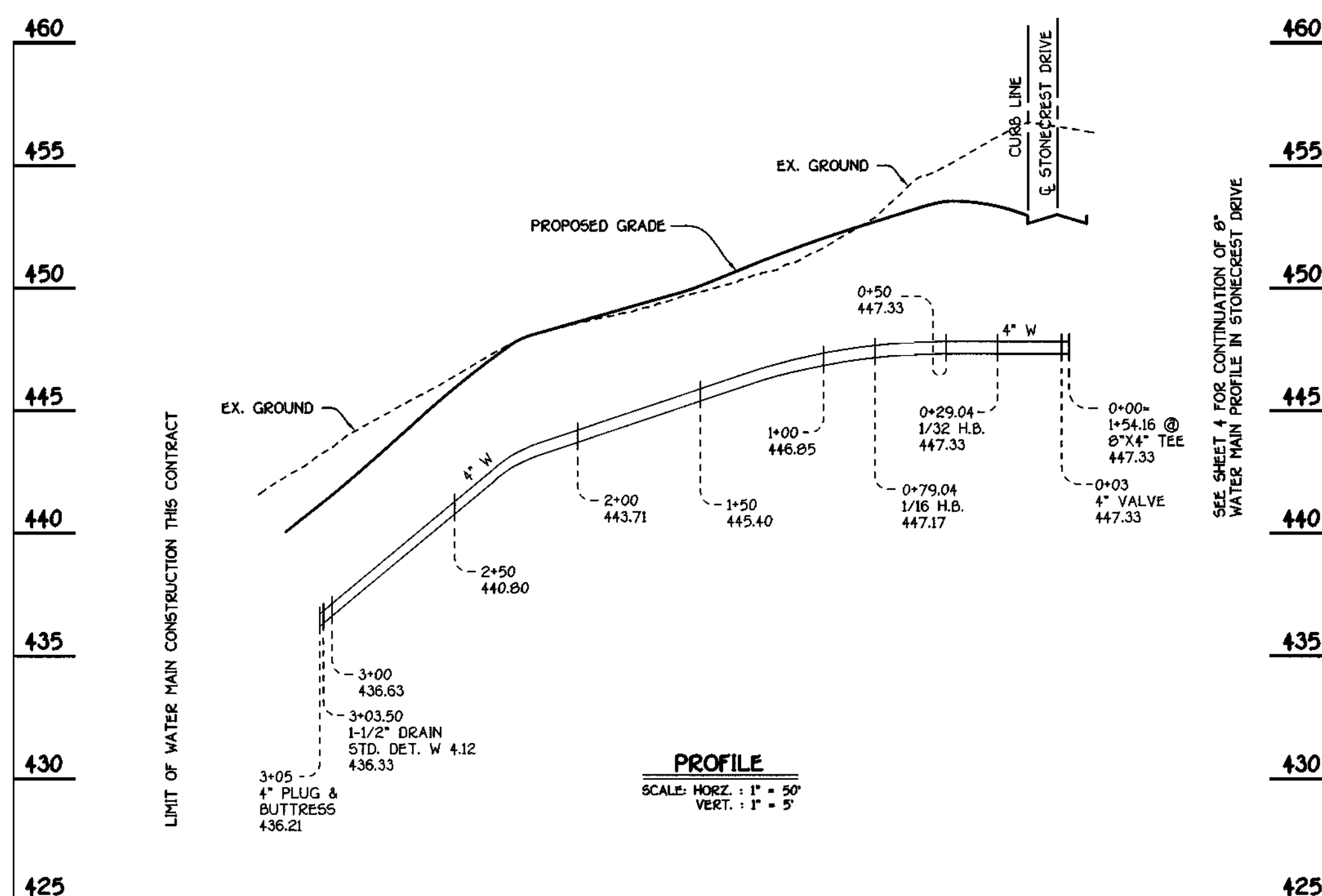
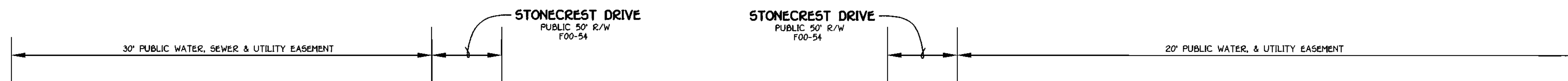
MANHOLE TABULATION CHART				
NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
100				362.50**
101				373.40*
102				387.50*
103				406.00**
104				403.00**
105				403.00**
106	9+50.15 STONECREST DRIVE	7.00' LT.	-6.92%	406.65
107	8+50.69 STONECREST DRIVE	3.00' LT.	-8.20%	416.93
108	7+59.89 STONECREST DRIVE	5.30' LT.	-6.00%	423.78
109	5+93.07 STONECREST DRIVE	0.82' LT.	-4.60%	431.99
110	3+01.79 STONECREST DRIVE	5.00' LT.	-7.08%	446.82
111	2+65.03 STONECREST DRIVE	19.15' LT.		449.20
112				439.40**
113				448.50**
114				440.00**
115				449.50**
116	1+35.23 POPLAR CREEK COURT	7.00' LT.	-1.00%	426.08
200				397.10**
201				410.40**
202				425.00**
203				422.00**
204				418.00**
205				433.40**
206				440.80**

* SET MH RIM 1'-6" ABOVE EXISTING GROUND; STD. DET. G.541
 ** SET MH RIM FLUSH W/ EXISTING OR PROPOSED GROUND AS APPLICABLE

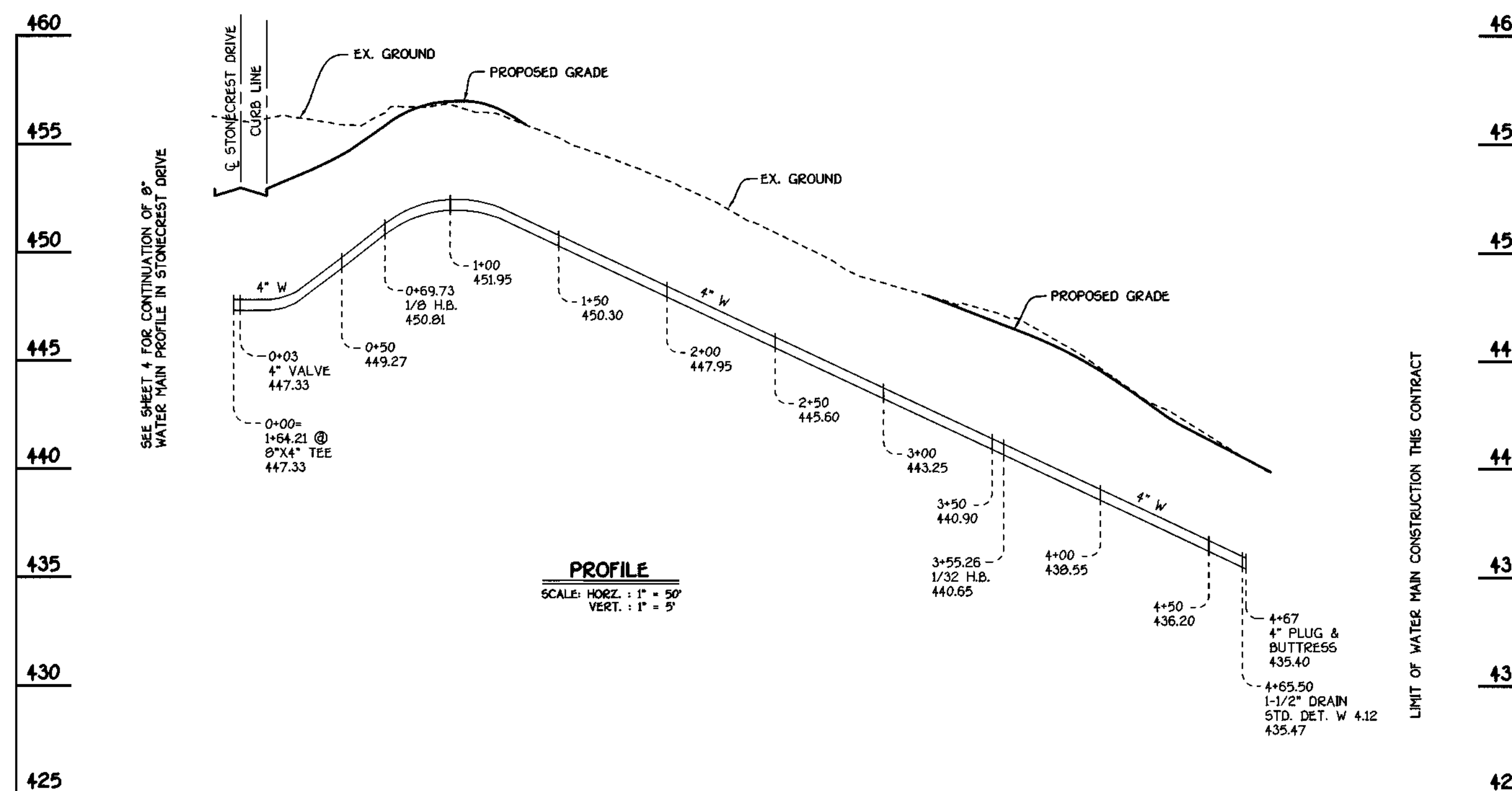
WATER MAIN TABULATION CHART			
WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
STONECREST DRIVE			
0+00	CONNECT TO EX. 8" W	-0+05.90	15.03' RT.
0+05	1/8 H.B.	-0+00.90	15.03' RT.
0+16.28	1/8 H.B.	0+07.04	7.00' RT.
0+22.74	8" VALVE	0+13.50	7.00' RT.
0+89.54	1/32 H.B.	0+80.31	7.00' RT.
1+43.78	1/16 H.B.	1+32.14	7.00' RT.
1+54.16	8" X 4" TEE	1+41.84	4.78' RT.
1+64.21	8" X 4" TEE	1+51.50	3.31' RT.
2+24.73	8" X 6" TEE	2+12.07	5.03' RT.
2+40.41	1/16 H.B.	2+28.12	3.43' RT.
3+10.89	1/32 H.B.	3+01.79	7.00' RT.
5+37.44	P.C. (CRIMP RADIUS = 500')	5+28.34	7.00' RT.
6+49.39	P.T. (CRIMP RADIUS = 500')	6+38.75	7.00' RT.
7+57.12	8" X 8" TEE	7+46.48	7.00' RT.
7+60.12	8" VALVE	7+49.48	7.00' RT.
7+78.57	P.C. (CRIMP RADIUS = 607')	7+67.93	7.00' RT.
9+90.09	P.T. (CRIMP RADIUS = 607')	9+77.01	7.00' RT.
10+29.68	8" X 6" TEE	10+16.60	7.00' RT.
10+64.00	8" PLUG & BUTTRESS	10+50.92	7.00' RT.
POPLAR CREEK COURT			
0+00	8" X 8" TEE	0+06.50	7.00' RT.
0+03	8" VALVE	0+09.50	7.00' RT.
2+22.01	8" X 6" TEE	0+36.36	7.00' RT.
2+85	8" PLUG & BUTTRESS	L.P. STA. 0+24.72	14.99' LT.

4" WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN FOR LOTS 2-5			
0+00	8" X 4" TEE	576055.25	1368160.65
0+03	4" VALVE	576055.45	1368157.66
0+29.04	1/32 H.B.	576057.21	1368131.66
0+79.04	1/16 H.B.	576070.55	1368083.50
3+03.50	1-1/2" DRAIN	576218.70	1367914.87
3+03.00	4" PLUG & BUTTRESS	576219.89	1367913.74
4" WATER MAIN FOR LOTS 29-32			
0+00	8" X 4" TEE	576065.27	1368181.33
0+03	4" VALVE	576065.07	1368164.32
0+69.73	1/8 H.B.	576060.56	1368230.91
3+55.26	1/32 H.B.	575842.95	1368415.77
4+65.50	1-1/2" DRAIN	575770.37	1368498.74
4+67.00	4" PLUG & BUTTRESS	575769.38	1368499.87

SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+23 LT.	MH 102 TO MH 103	388.70
	20 (DHC)	
	MH 103 TO MH 104	
	19 (SHC @ MH)	395.21
@ MH 104 LT.	MH 105 TO MH 106	
	14 (SHC @ MH)	400.11
@ MH 106 CT.	MH 106 TO MH 107	
	17	
0+25 LT.	13	402.04
0+55 RT.	13	403.94
	MH 107 TO MH 108	
0+10 LT.	18	407.99
0+55 RT.	12	410.70
	MH 108 TO MH 109	
0+65 RT.	11	417.12
	MH 109 TO MH 110	
0+80 RT.	9	424.29
1+05 RT.	8 (DHC)	428.90
2+65 RT.	7 (DHC)	434.40
	MH 111 TO MH 112	
0+15 LT.	6 (DHC)	440.20
	MH 112 TO MH 113	
0+15 RT.	5 (DHC)	434.20
	MH 113 TO MH 114	
0+55 LT.	2 (DHC)	436.40
@ MH 114 LT.	3 (SHC @ MH) @ 1.00%	427.75
@ MH 114 RT.	4 (SHC @ MH) @ 1.00%	427.70
	MH 113 TO MH 115	
@ MH 115 RT.	1 (SHC @ MH)	442.70
	MH 103 TO MH 200	
0+55 RT.	21 (DHC)	399.70
0+15 RT.	22	404.93
1+00 RT.	23 (DHC)	420.20
	MH 202 TO MH 203	
0+80 RT.	24 (SHC @ MH)	411.76
	MH 203 TO MH 204	
@ MH 204 RT.	27 (SHC @ MH)	413.07
	MH 205 TO MH 206	
0+15 LT.	29	426.09
0+25 RT.	28	426.16
@ MH 206 LT.	30 (SHC @ MH)	427.03
@ MH 206 RT.	31 (DROP CONN. @ MH)	434.74
	MH 108 TO MH 116	
0+75 RT.	26	418.04
@ MH 116 RT.	25 (DROP CONN. @ MH)	418.56



4" WATER MAIN TO LOTS 2, 3, 4 & 5

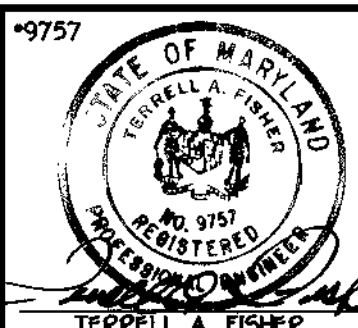


4" WATER MAIN TO LOTS 28, 29, 30 & 31

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELKOTT CITY, MARYLAND 21042
410-418-1225



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.K.
DATE:	JUNE, 2001
BY NO.	
REVISION	

WATER MAINS
PROFILES

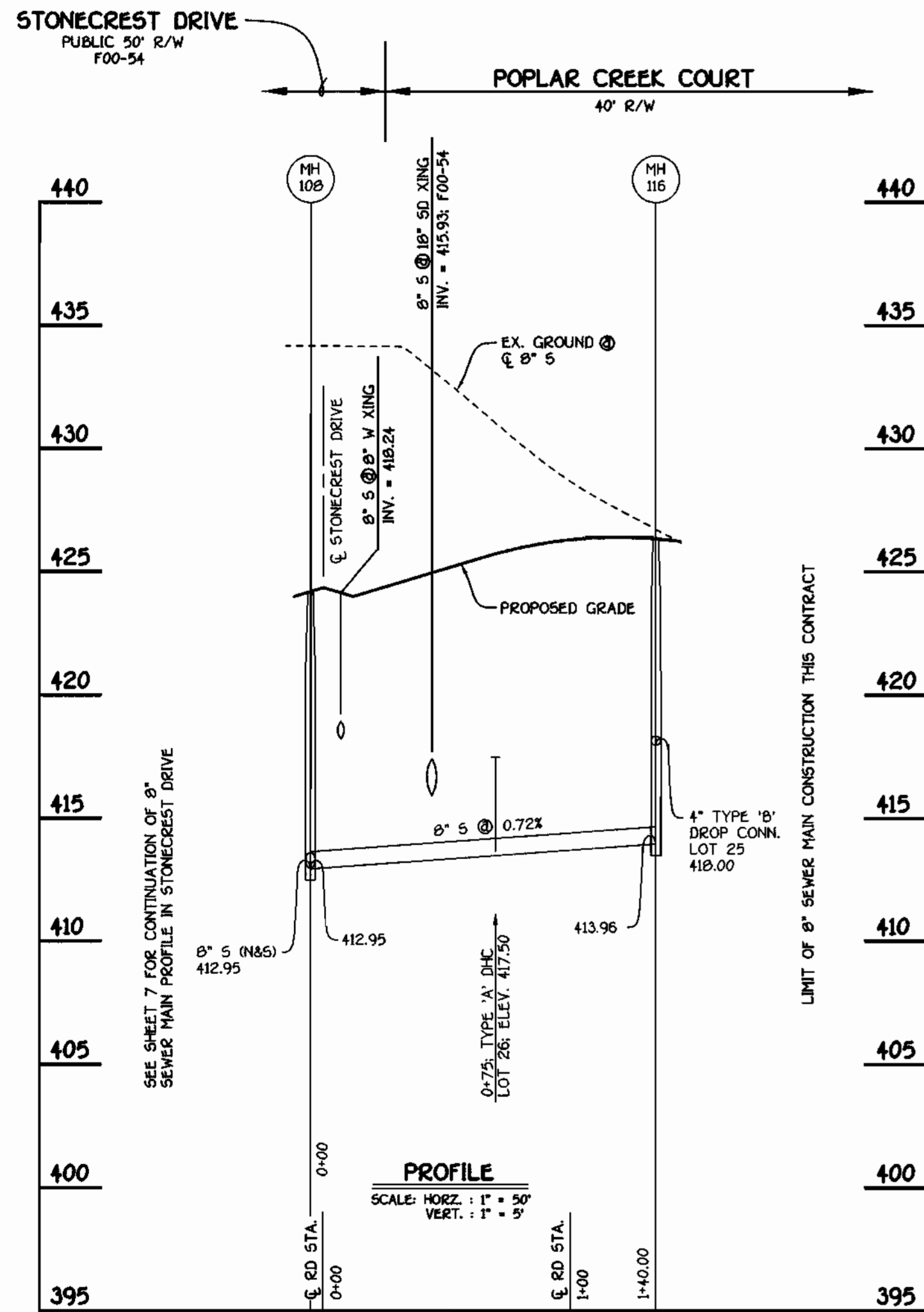
600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL WATER MAIN PROFILES 9/15

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

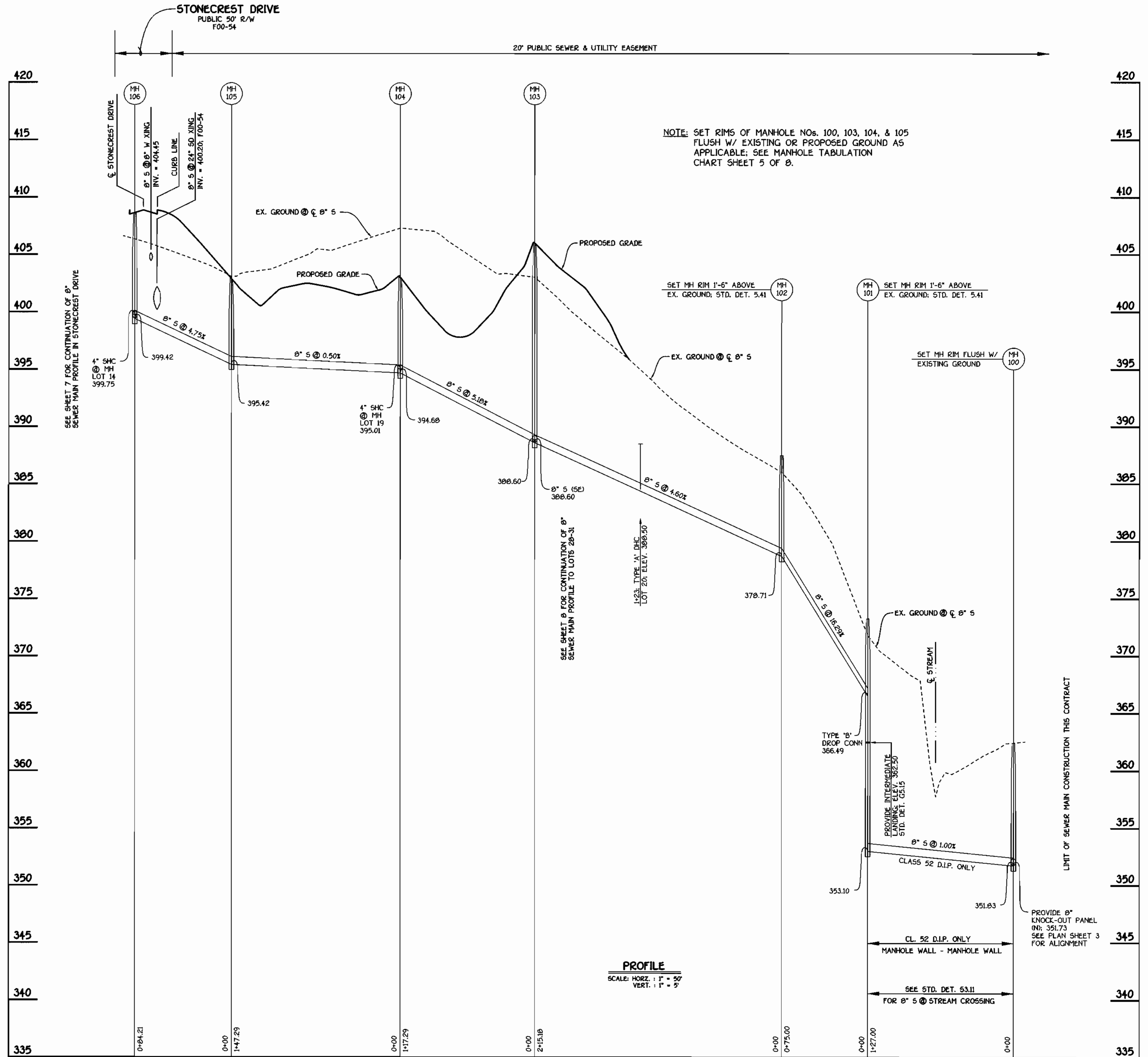
SCALE
AS
SHOWN

SHEET
5 of 8

CONTRACT NO. 14-3899-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



8" SEWER: POPLAR CREEK COURT



8" SEWER: STONECREST DRIVE TO NEW CUT ROAD

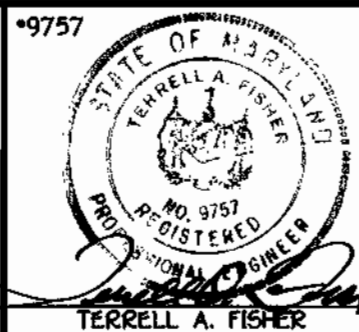
NOTE: SET RIMS OF MANHOLE NOS. 100, 103, 104, & 105 FLUSH W/ EXISTING OR PROPOSED GROUND AS APPLICABLE; SEE MANHOLE TABULATION CHART SHEET 5 OF 8.

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
COTTERMAN SQUARE, OFFICE PARK - 1622 BALTIMORE NATIONAL PARK
ELLCOTT CITY, MARYLAND 21116
(410) 461-2000



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.M.K.
DATE:	JUNE, 2001
BY NO.	
REVISION	
DATE	

SEWER MAINS PROFILES

600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30515
FILE NAME: 30515 FINAL SEWER MAINS PROFILES SHIT 6

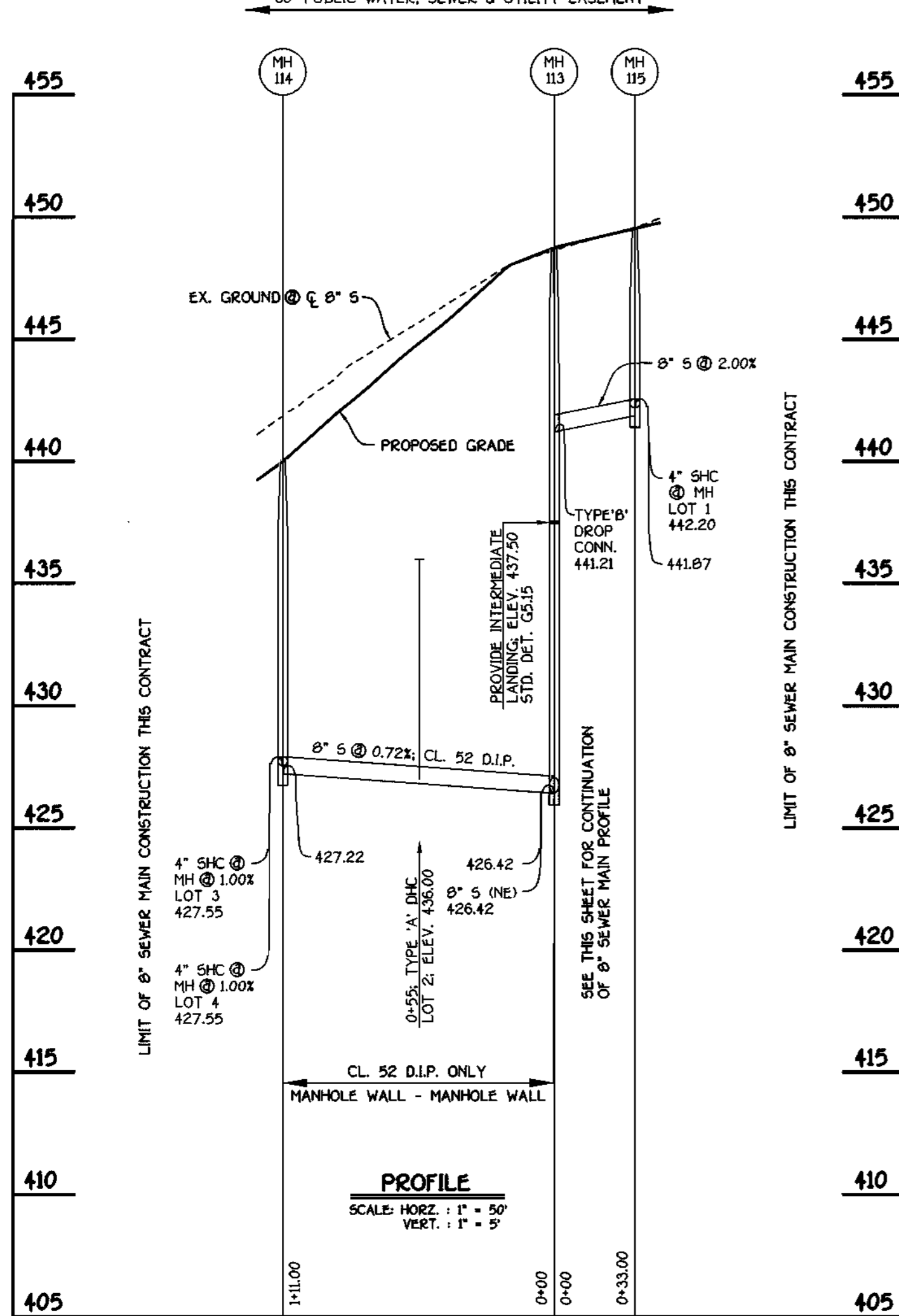
STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 6 OF 8

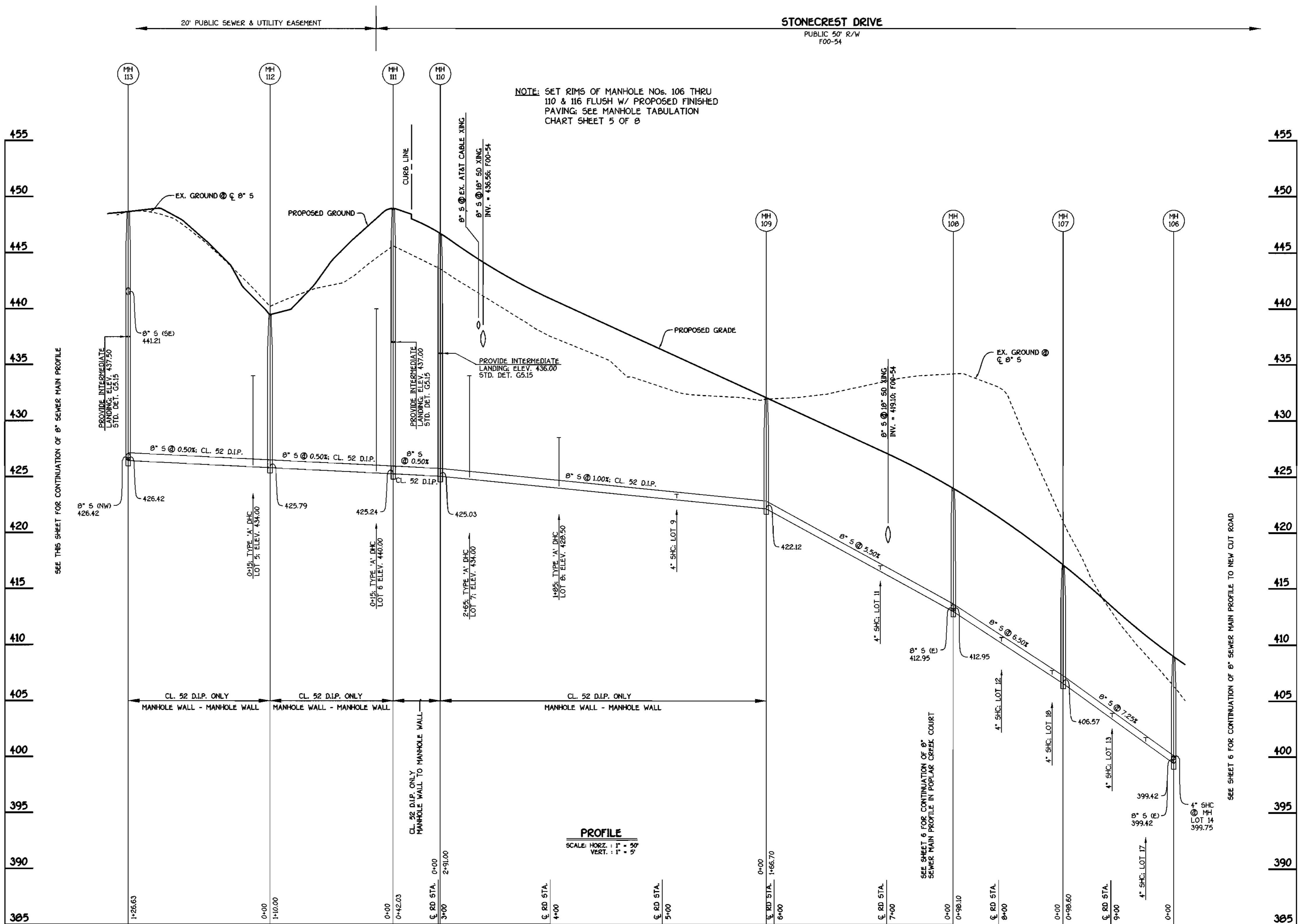
CONTRACT NO. 14-3899-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

K:\Drawings\3\30515 Stone Manor\Map\30515 SHIT 6.dwg Thu Jun 14 08:51:38 2001

NOTE: SET RIMS OF MANHOLE NOS. 111 THRU 115 FLUSH W/ PROPOSED FINISHED GROUND; SEE MANHOLE TABULATION CHART SHEET 5 OF 8



8" SEWER: LOTS 1 THRU 5



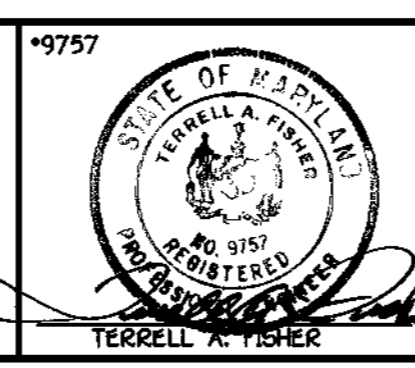
8" SEWER: STONECREST DRIVE

NOTE: SET RIMS OF MANHOLE NOS. 106 THRU 110 & 116 FLUSH W/ PROPOSED FINISHED PAVING; SEE MANHOLE TABULATION CHART SHEET 5 OF 8

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS



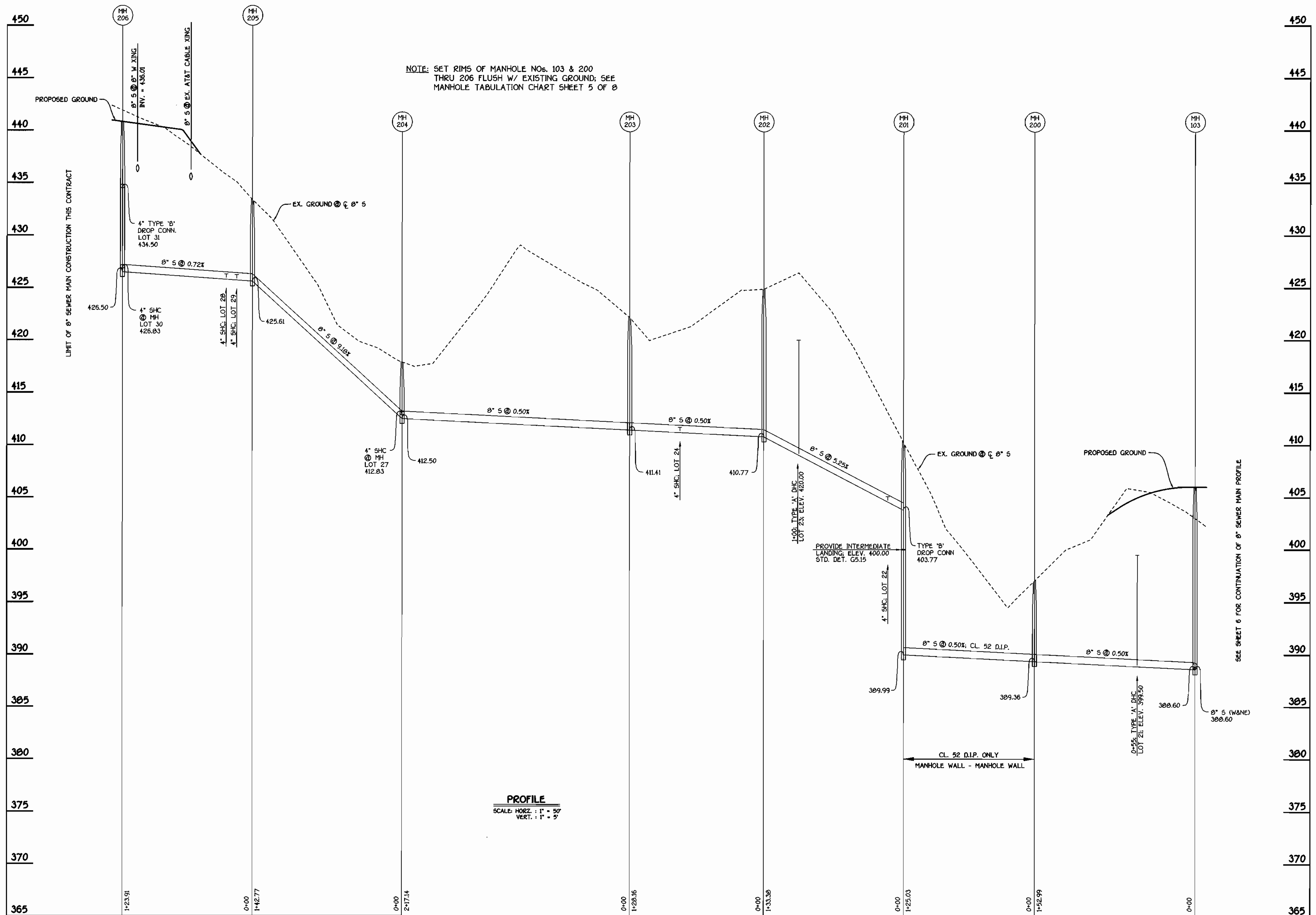
DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.W.K.
DATE: JUNE, 2001

SEWER MAINS PROFILES
600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL SEWER MAINS PROFILES SHT 7

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 7 OF 8

CONTRACT NO. 14-3899-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



NOTE: SET RIMS OF MANHOLE NOS. 103 & 200 THRU 206 FLUSH W/ EXISTING GROUND; SEE MANHOLE TABULATION CHART SHEET 5 OF 8

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

8" SEWER MAIN OUTFALL

CONTRACT NO. 14-3899-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
6-18-01

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
6/18/01

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 20622
(410) 461-2255

DESIGNED BY: M.D.T.
DRAWN BY: M.D.T.
CHECKED BY: P.W.K.
DATE: JUNE, 2001
BY NO. REVISION DATE

TERRELL A. FISHER
60' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL SEWER MAIN PROFILE SHIT 8

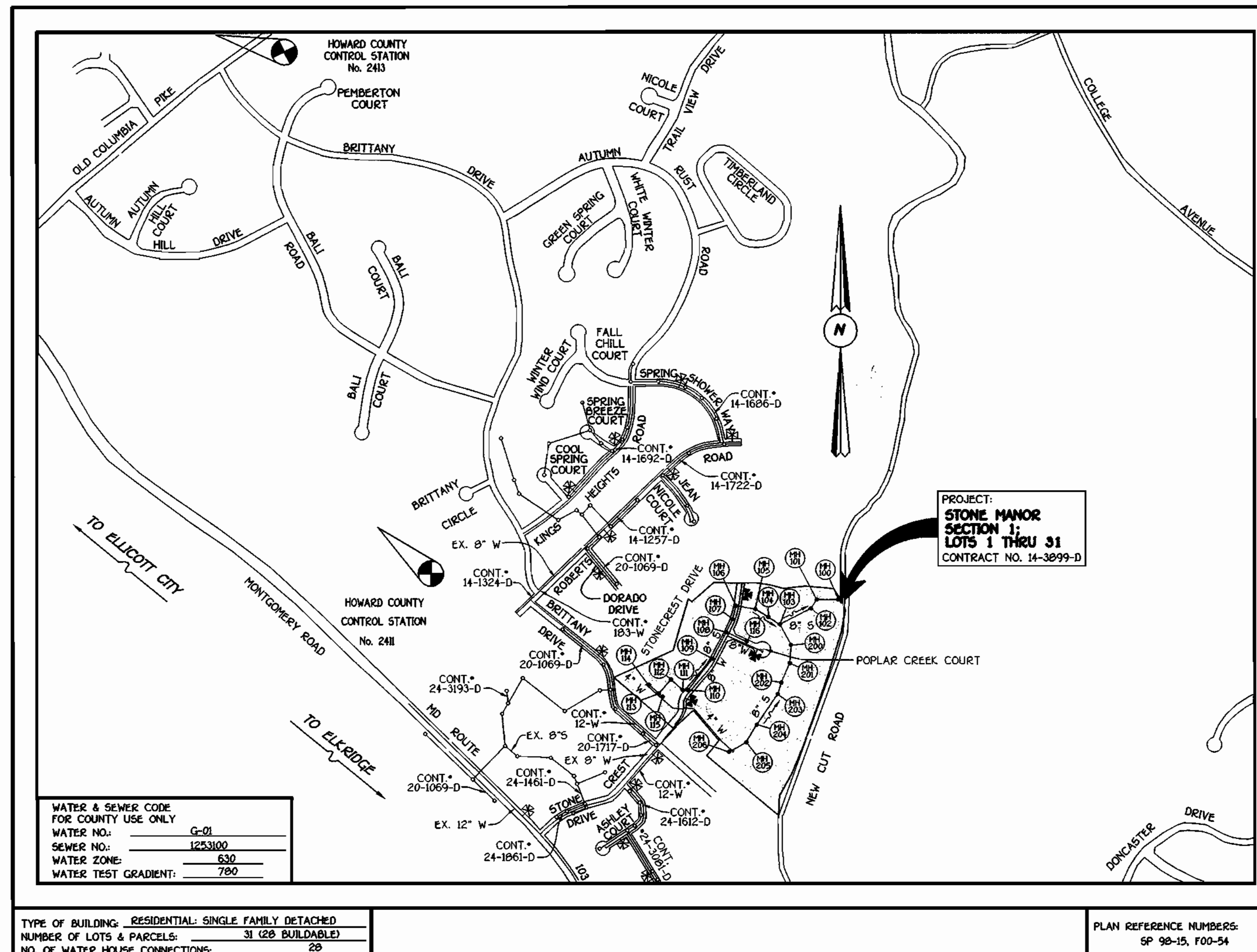
SEWER MAINS PROFILES

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 8 OF 8

K:\Drawings\3130615 Stone Manor\WetSewer\Final\30615 Final Sewer Main Profiles Shts.dwg Thu Jun 14 11:54:24 2001

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" WATER	1349.00 L.F.			
6" WATER	64.00 L.F.			
4" WATER	772.00 L.F.			
FIRE HYDRANTS	3 EACH			
OUTSIDE METER SETTINGS	4 EACH			
1-1/2" DRAINS	2 EACH			
8" SEWER	2300 L.F.			
8" SEWER (D.I.P.)	807.66 L.F.			
4" SEWER	400 L.F.			
MANHOLES	24 EACH			
1-1/2" WATER	54 L.F.			
1" WATER	667 L.F.			
8" X 8" TEE	1 EACH			
8" X 6" TEE	3 EACH			
8" X 4" TEE	2 EACH			
8" VALVE	3 EACH			
6" VALVE	3 EACH			
4" VALVE	2 EACH			
8"-1/8 H.B.	2 EACH			
8"-1/16 H.B.	2 EACH			
8"-1/32 H.B.	2 EACH			
4"-1/8 H.B.	1 EACH			
4"-1/16 H.B.	1 EACH			
4"-1/32 H.B.	2 EACH			
8" PLUG & BUTTRESS	2 EACH			
4" PLUG & BUTTRESS	2 EACH			
NAME OF UTILITY CONTRACTOR:				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				



WATER & SEWER CODE FOR COUNTY USE ONLY	
WATER NO.:	G-01
SEWER NO.:	1233100
WATER ZONE:	630
WATER TEST GRADIENT:	780

TYPE OF BUILDING:	RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS & PARCELS:	31 (20 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	20
NO. OF SEWER HOUSE CONNECTIONS:	20
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT VIA THE NEW CUT ROAD PUMPING STATION

PLAN REFERENCE NUMBERS:
SP 98-15, F00-54

VICINITY MAP

SCALE: 1"=600'

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 - 850-1620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
 - M&S 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 WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G. 5.52.
- WHERE WATER-TIGHT 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 G.5.51.
- 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 (W111 AND W213). 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 OR 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 18.11(a) OF THE HOWARD COUNTY CODE.

DEVELOPER'S CERTIFICATION

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Paul W. Roubel FOR: 06/14/01
 Stonecrest Manor, L.L.C. DATE
 SIGNATURE OF DEVELOPER

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

H. McCann 6/14/01
 SIGNATURE OF ENGINEER DATE

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

Jim Meyer 6/22/01
 U.S. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

John K. Roberts 6/22/01
 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 AND AS SHOWN ON F00-54 AND ON THESE PLANS.

Paul W. Roubel FOR: 06/14/01
 Stonecrest Manor, L.L.C. DATE
 SIGNATURE OF DEVELOPER

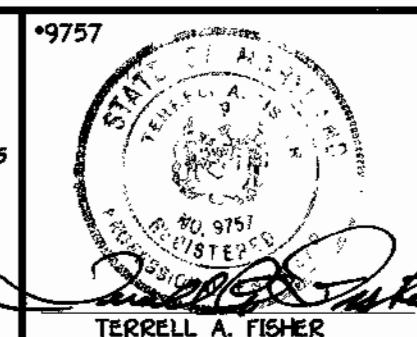
CONTRACT No. 14-3899-D
STONE MANOR
 SECTION 1
 LOTS 1 THRU 31
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-3899-D
 STONE MANOR
 SECTION 1: LOTS 1 THRU 31
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 2672 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21037
 410-468-2855



DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.K.		
DATE:	JUNE, 2001		
BY NO.		REVISION	DATE
		REMOVE 4" SEWER QUANTITIES	7/7/02
		REMOVE 8" SEWER QUANTITIES	7/7/02

TITLE SHEET

600' SCALE MAP NO. 31 BLOCK NO. 1
 F.C.C. WORK ORDER NO. 30615
 FILE NAME: 30615 FINAL WATER AND SEWER TITLE SHT 1

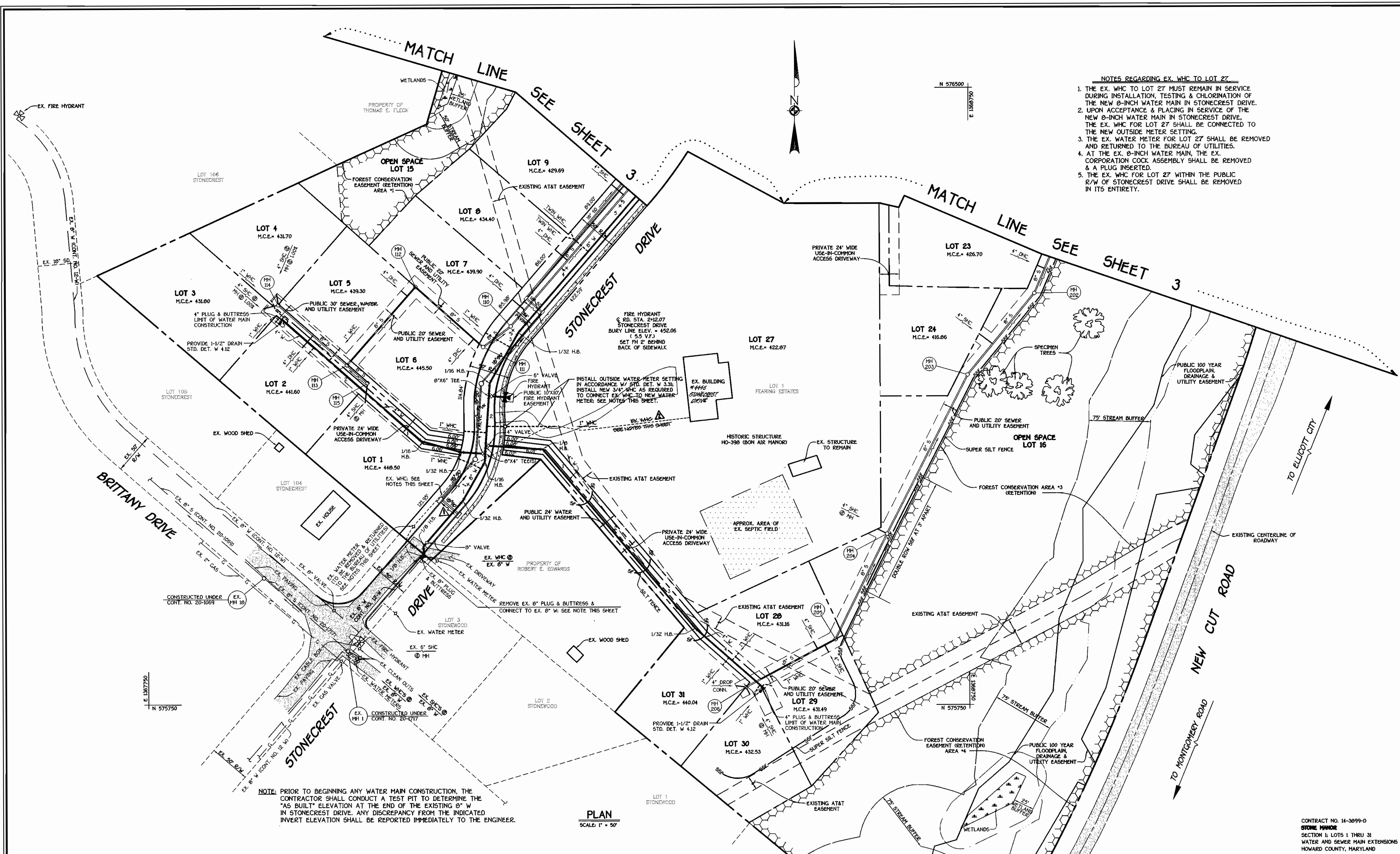
STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 CONTRACT NO. 14-3899-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE
 AS
 SHOWN

SHEET
 1 OF 8

Michael J. ... 6-18-01
 CHIEF, BUREAU OF UTILITIES DATE

... 6/21/01
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

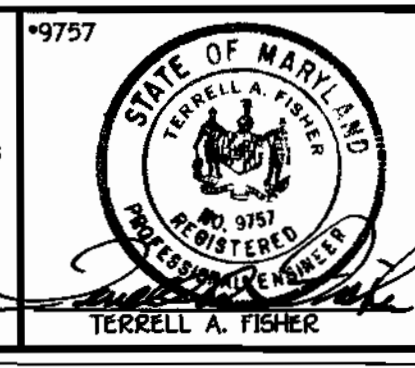
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CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

[Signature]
TERRELL A. FISHER



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.C.
DATE:	JUNE, 2001
BY NO.	
REVISION	
1/11/02	REVISE ALIGNMENT OF EX. WHC
1/11/02	REVISED STORM DRAIN ALIGNMENT

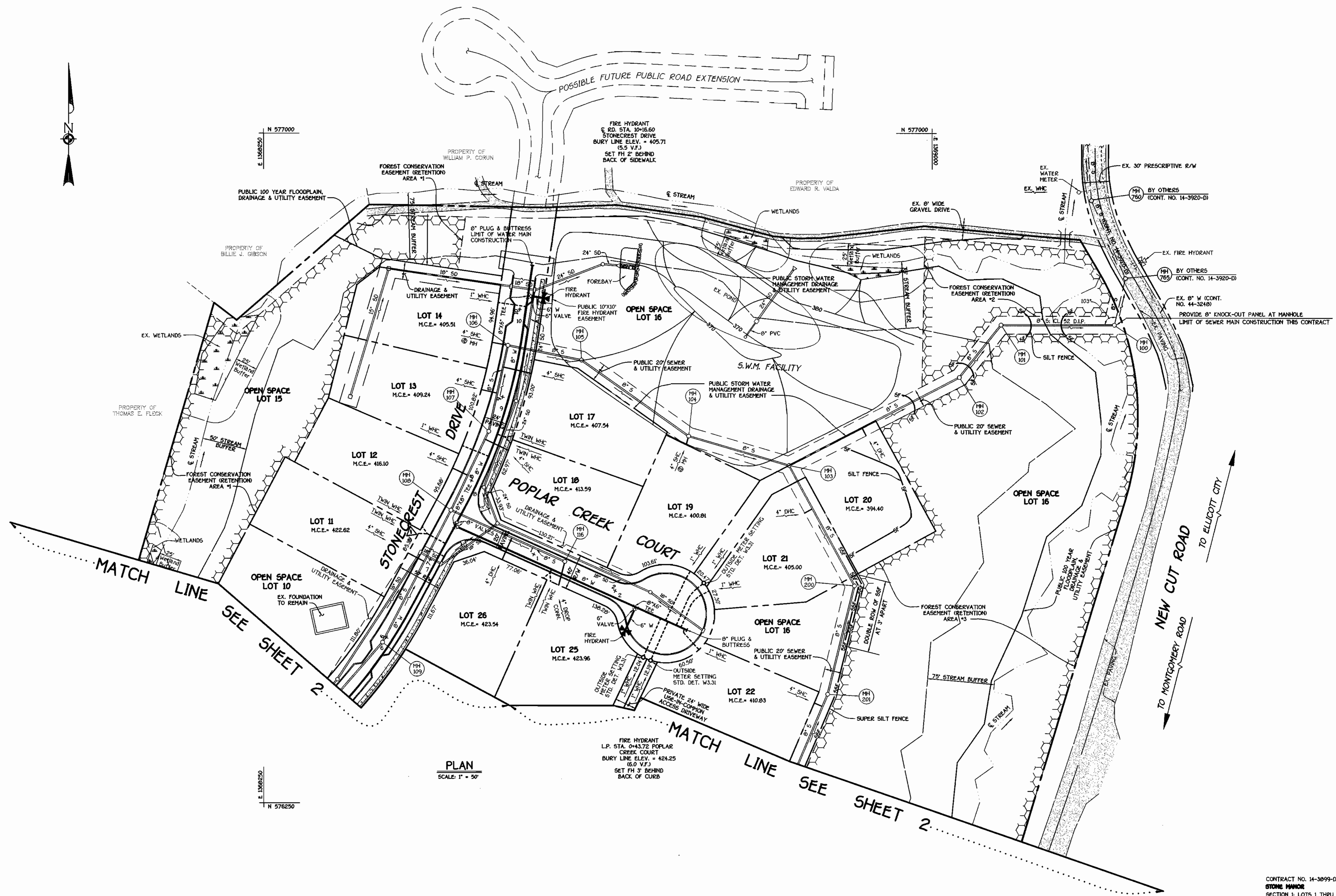
WATER AND SEWER MAINS
PLAN VIEW

600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL WATER AND SEWER PLAN SHT 2

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3099-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 of 8

K:\Drawings\3\30615 Stone Manor\MapSewFinals\30615 Final Water and Sewer Plan Sht. 2.dwg Thu Jun 14 11:17:59 2001



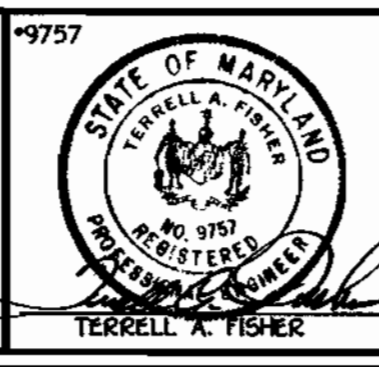
PLAN
SCALE: 1" = 50'

CONTRACT NO. 14-3899-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael A. Gussanillo for PWS
CHIEF, BUREAU OF UTILITIES
6-16-01
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
6/21/01
DATE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
410-412-2555



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JUNE, 2001
BY	NO.
REVISION	FRONT FOOTAGE; LOT 11
DATE	1/11/02

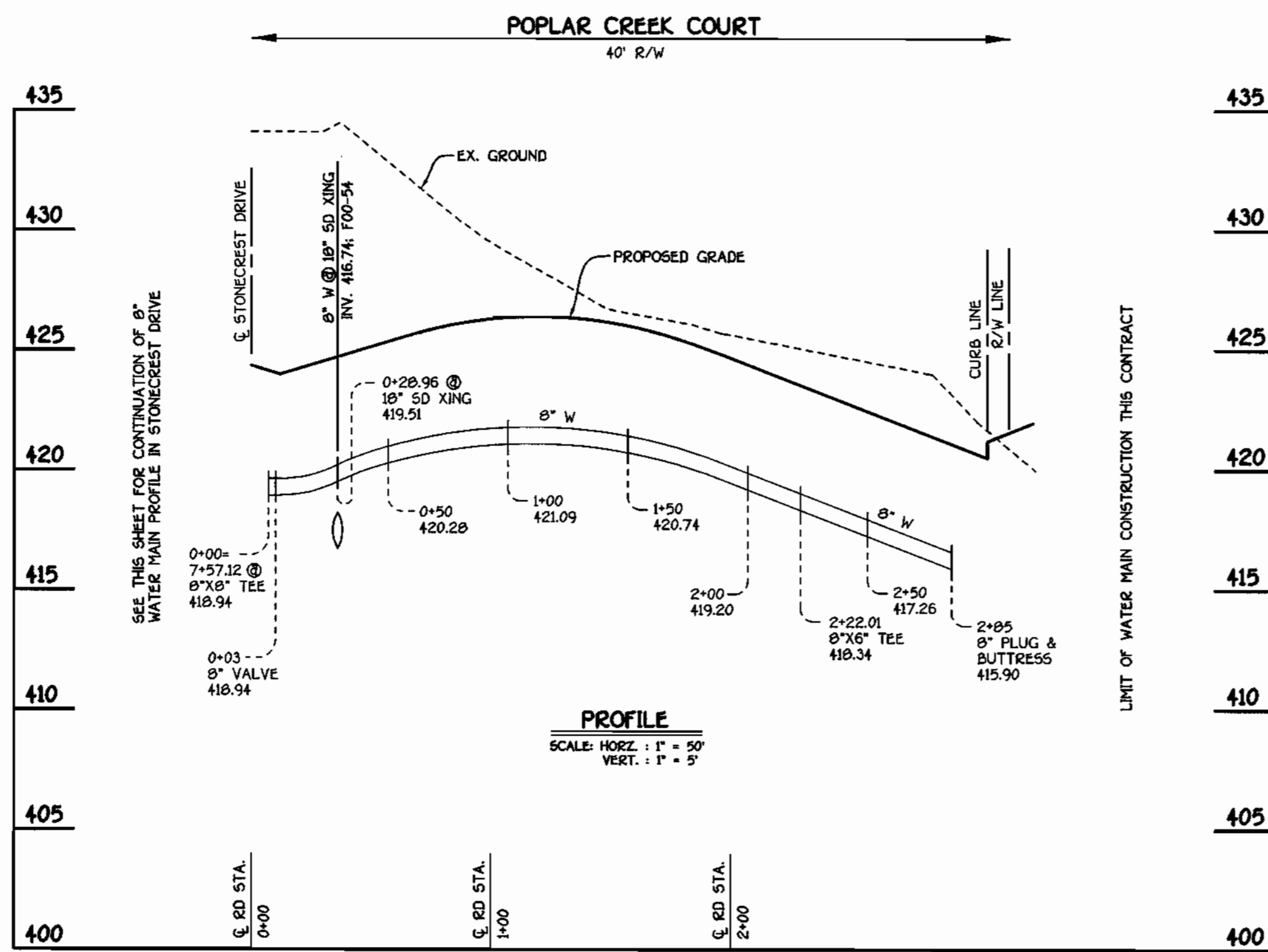
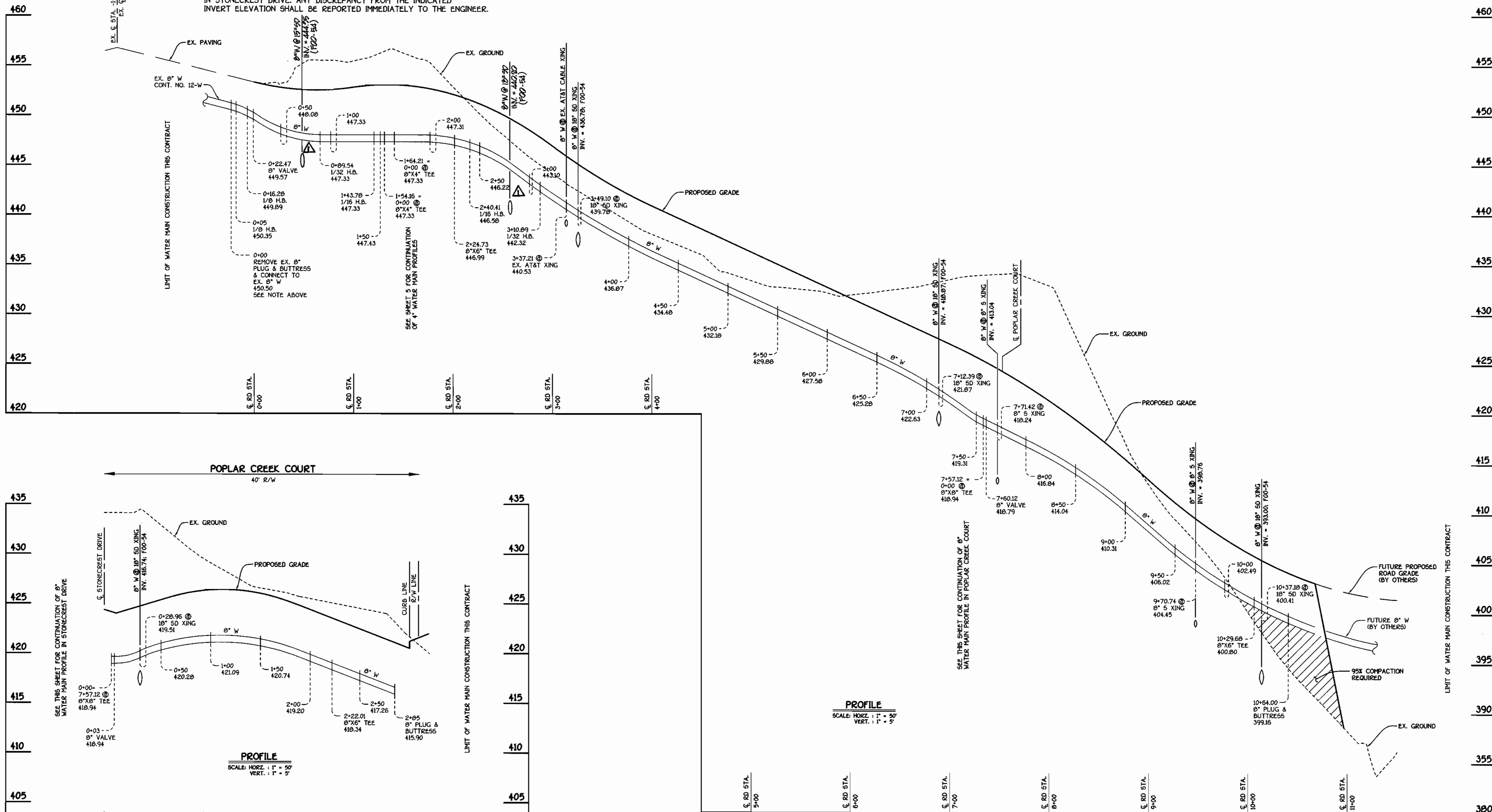
WATER AND SEWER MAINS
PLAN VIEW
600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL WATER AND SEWER PLAN SHT 3

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
3 OF 8

K: Drawings 3\30615 Stone Manor\WatSew\Final\30615 Final Water and Sewer Plan Sht 3.dwg Thu Jun 14 11:22:43 2001

NOTE: PRIOR TO BEGINNING ANY WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A TEST PIT TO DETERMINE THE "AS BUILT" ELEVATION AT THE END OF THE EXISTING 8" W IN STONECREST DRIVE. ANY DISCREPANCY FROM THE INDICATED INVERT ELEVATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.



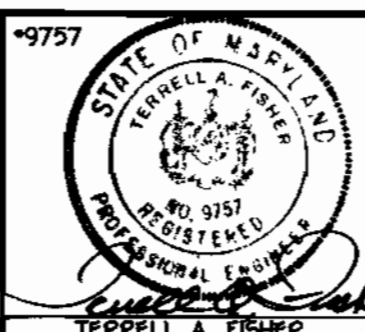
STONECREST DRIVE: 8" WATER MAIN

POPLAR CREEK COURT: 8" WATER MAIN

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410 441 2855)



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JUNE, 2001
BY:	NO.

WATER MAINS PROFILES

600' SCALE MAP NO.	31	BLOCK NO.	1
F.C.C. WORK ORDER NO.	30815		
FILE NAME:	30815 FINAL WATER MAIN PROFILES SHT4		

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3099-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
4 OF 8

CONTRACT NO. 14-3099-D
STONE MANOR
SECTION 1; LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

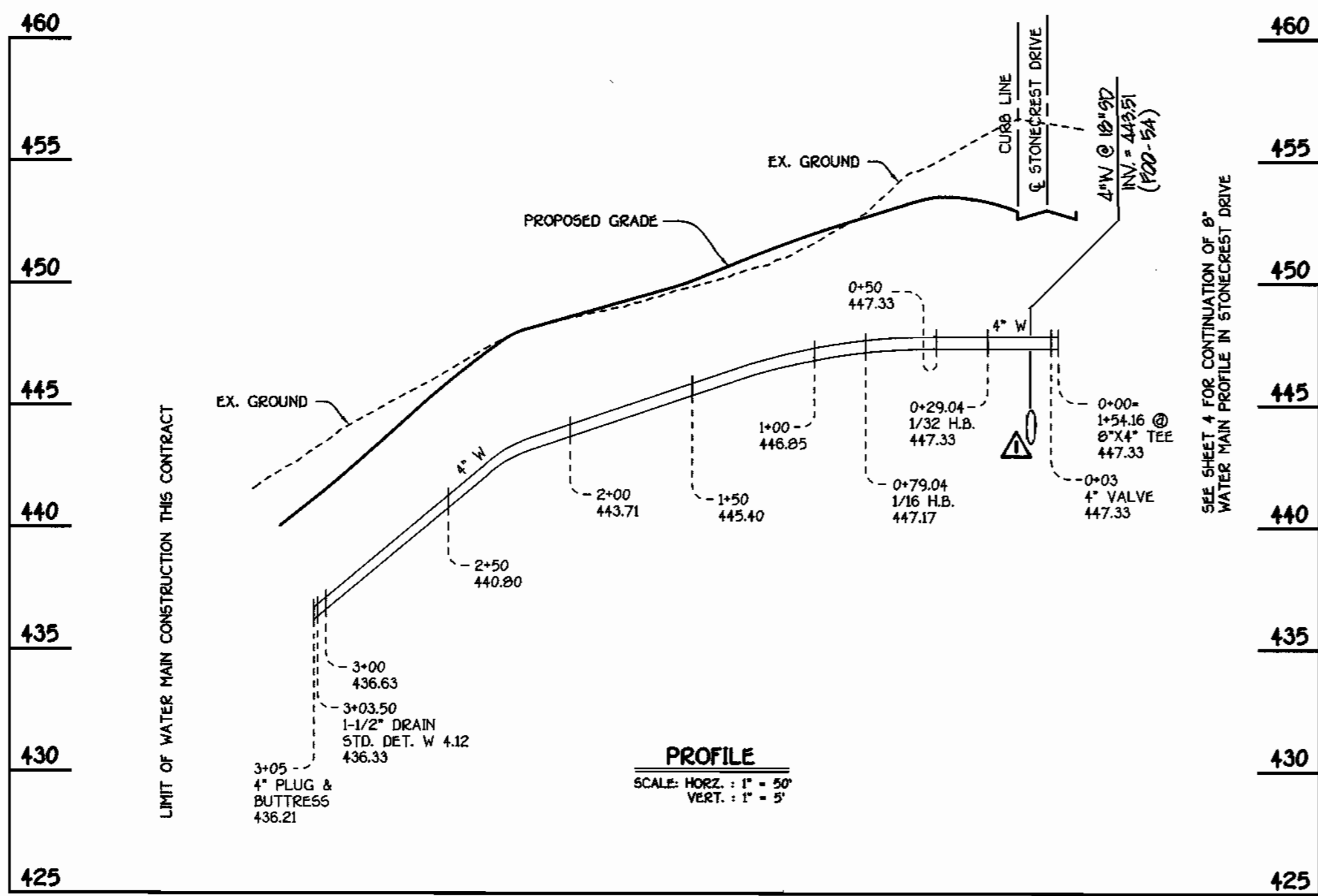
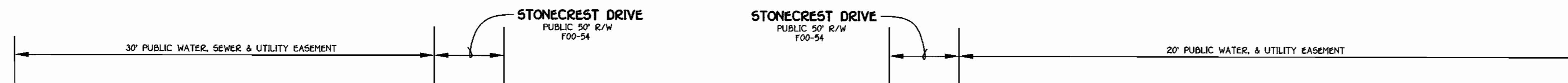
MANHOLE TABULATION CHART				
NO.	Q ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
100				362.50**
101				373.40*
102				387.50*
103				406.00**
104				403.00**
105				403.00**
106	9+58.15 STONECREST DRIVE	7.00' LT.	-6.92%	408.65
107	8+58.69 STONECREST DRIVE	3.00' LT.	-8.20%	416.93
108	7+59.89 STONECREST DRIVE	5.30' LT.	-6.00%	423.78
109	5+93.07 STONECREST DRIVE	0.82' LT.	-4.60%	431.99
110	3+01.79 STONECREST DRIVE	5.00' LT.	-7.08%	446.62
111	2+65.03 STONECREST DRIVE	19.15' LT.		449.20
112				439.40**
113				448.50**
114				440.00**
115				449.50**
116	1+35.23 POPLAR CREEK COURT	7.00' LT.	-1.00%	426.08
200				397.10**
201				410.40**
202				425.00**
203				422.00**
204				418.00**
205				433.40**
206				440.80**

* SET MH RIM 1'-6" ABOVE EXISTING GROUND, STD. DET. G.541
 ** SET MH RIM FLUSH W/ EXISTING OR PROPOSED GROUND AS APPLICABLE

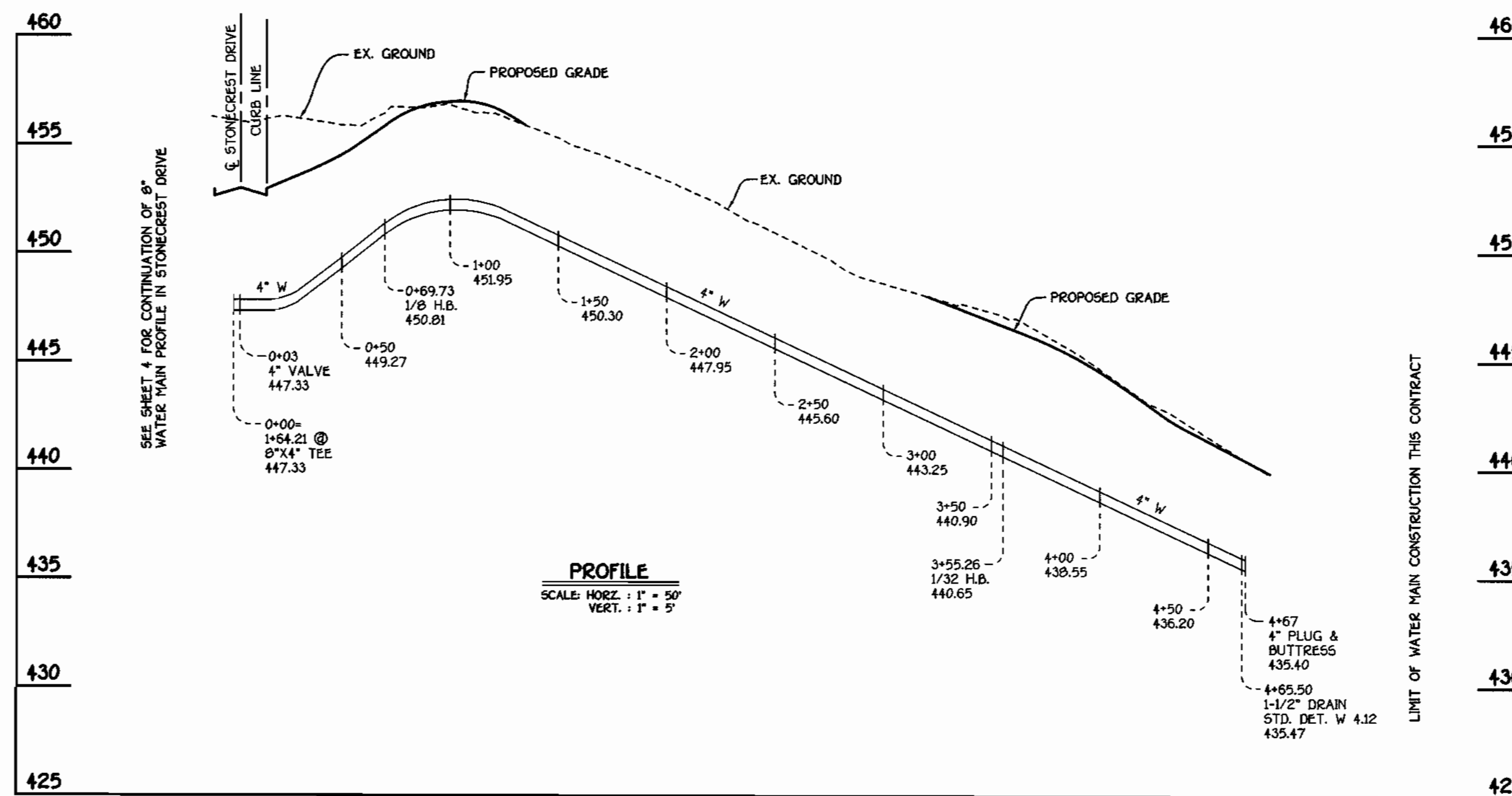
WATER MAIN TABULATION CHART			
WM STATION	APPURTENANCE	Q ROAD STATION	DISTANCE
STONECREST DRIVE			
0+00	CONNECT TO EX. 8" W	0+05.90	15.03' RT.
0+05	1/8 H.B.	0+08.90	15.03' RT.
0+16.28	1/8 H.B.	0+07.04	7.00' RT.
0+22.74	8" VALVE	0+13.50	7.00' RT.
0+89.54	1/32 H.B.	0+80.31	7.00' RT.
1+43.78	1/16 H.B.	1+32.14	7.00' RT.
1+54.16	8" X 4" TEE	1+41.84	4.76' RT.
1+64.21	8" X 4" TEE	1+51.50	3.31' RT.
2+24.73	8" X 6" TEE	2+12.07	5.03' RT.
2+40.41	1/16 H.B.	2+28.12	3.43' RT.
3+10.89	1/32 H.B.	3+01.79	7.00' RT.
5+37.44	P.C. (CRIMP RADIUS = 500')	5+28.34	7.00' RT.
6+49.39	P.T. (CRIMP RADIUS = 500')	6+38.75	7.00' RT.
7+57.12	8" X 8" TEE	7+46.48	7.00' RT.
7+60.12	8" VALVE	7+49.48	7.00' RT.
7+78.57	P.C. (CRIMP RADIUS = 607')	7+67.93	7.00' RT.
9+90.09	P.T. (CRIMP RADIUS = 607')	9+77.01	7.00' RT.
10+29.68	8" X 6" TEE	10+16.60	7.00' RT.
10+64.00	8" PLUG & BUTTRESS	10+50.92	7.00' RT.
POPLAR CREEK COURT			
0+00	8" X 8" TEE	0+06.50	7.00' RT.
0+03	8" VALVE	0+09.50	7.00' RT.
2+22.01	8" X 6" TEE	0+36.36	7.00' RT.
2+85	8" PLUG & BUTTRESS	L.P. STA. 0+24.72	14.95' LT.

4" WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN FOR LOTS 2-5			
0+00	8" X 4" TEE	576055.25	1368160.65
0+03	4" VALVE	576055.45	1368157.66
0+29.04	1/32 H.B.	576057.21	1368131.68
0+79.04	1/16 H.B.	576070.55	1368063.50
3+03.50	1-1/2" DRAIN	576218.70	1367914.87
3+05.00	4" PLUG & BUTTRESS	576219.89	1367913.74
4" WATER MAIN FOR LOTS 29-32			
0+00	8" X 4" TEE	576065.27	1368161.33
0+03	4" VALVE	576065.07	1368164.32
0+69.73	1/8 H.B.	576060.56	1368230.91
3+55.26	1/32 H.B.	575842.95	1368415.77
4+65.50	1-1/2" DRAIN	575770.37	1368498.74
4+67.00	4" PLUG & BUTTRESS	575769.38	1368499.87

SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
	MH 102 TO MH 103	
1+23 LT.	20 (DHC)	388.70
	MH 103 TO MH 104	
② MH 104 LT.	19 (SHC @ MH)	395.21
	MH 105 TO MH 106	
② MH 106 CT.	14 (SHC @ MH)	400.11
	MH 106 TO MH 107	
0+25 LT.	17	402.04
0+55 RT.	13	403.94
	MH 107 TO MH 108	
0+10 LT.	18	407.99
0+55 RT.	12	410.70
	MH 108 TO MH 109	
0+85 RT.	11	417.12
	MH 109 TO MH 110	
0+80 RT.	9	424.29
1+85 RT.	8 (DHC)	428.90
2+65 RT.	7 (DHC)	434.40
	MH 110 TO MH 112	
0+15 LT.	6 (DHC)	440.20
	MH 112 TO MH 113	
0+15 RT.	5 (DHC)	434.20
	MH 113 TO MH 114	
0+55 LT.	2 (DHC)	436.40
② MH 114 LT.	3 (SHC @ MH @ 1.00%)	427.75
② MH 114 RT.	4 (SHC @ MH @ 1.00%)	427.70
	MH 113 TO MH 115	
② MH 115 RT.	1 (SHC @ MH)	442.70
	MH 103 TO MH 200	
0+55 RT.	21 (DHC)	399.70
	MH 201 TO MH 202	
0+15 RT.	22	404.93
1+00 RT.	23 (DHC)	420.20
	MH 202 TO MH 203	
0+80 RT.	24 (SHC @ MH)	411.76
	MH 203 TO MH 204	
② MH 204 RT.	27 (SHC @ MH)	413.07
	MH 205 TO MH 206	
0+15 LT.	29	426.09
0+25 RT.	28	426.16
② MH 206 LT.	30 (SHC @ MH)	427.03
② MH 206 RT.	31 (DROPP CONN. @ MH)	434.74
	MH 108 TO MH 116	
0+75 RT.	26	418.04
② MH 116 RT.	25 (DROPP CONN. @ MH)	418.56



4" WATER MAIN TO LOTS 2, 3, 4 & 5

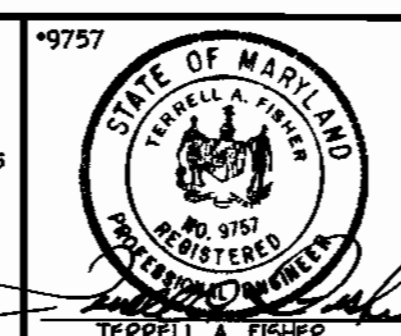


4" WATER MAIN TO LOTS 28, 29, 30 & 31

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARCEL - 8072 BALTIMORE NATIONAL FREE
ELLCOTT CITY, MARYLAND 21117
(410) 481-2895



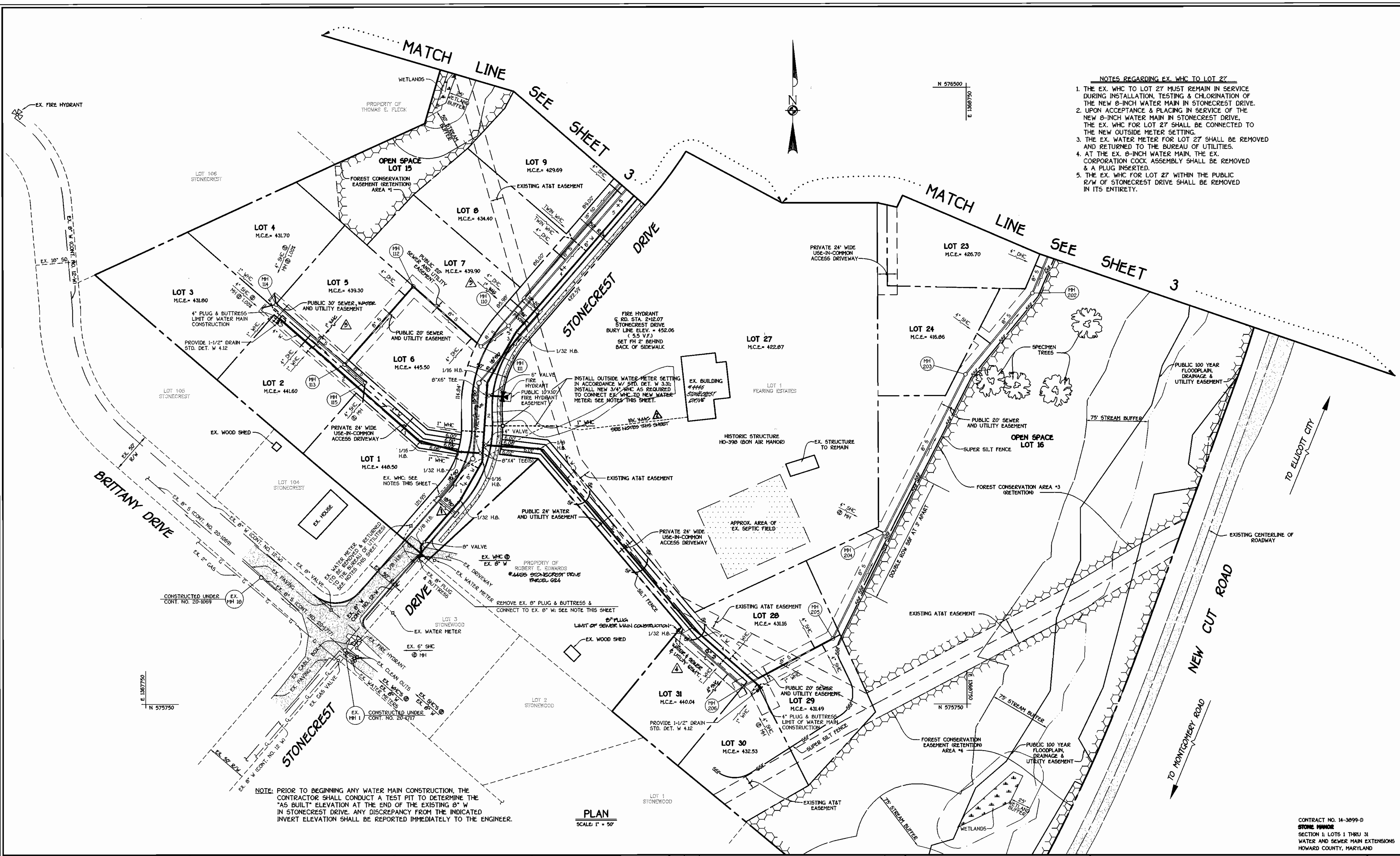
DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.K.
DATE:	JUNE, 2001
BY:	APPROVED SYSTEM DRAIN CROSSING
NO.:	
REVISION:	
DATE:	1/1/02

WATER MAINS
PROFILES

800' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30515
FILE NAME: 30515 FINAL WATER MAIN PROFILES SHIT

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3899-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN
SHEET
5 OF 8



- NOTES REGARDING EX. WMC TO LOT 27**
1. THE EX. WMC TO LOT 27 MUST REMAIN IN SERVICE DURING INSTALLATION, TESTING & CHLORINATION OF THE NEW 8-INCH WATER MAIN IN STONECREST DRIVE.
 2. UPON ACCEPTANCE & PLACING IN SERVICE OF THE NEW 8-INCH WATER MAIN IN STONECREST DRIVE, THE EX. WMC FOR LOT 27 SHALL BE CONNECTED TO THE NEW OUTSIDE METER SETTING.
 3. THE EX. WATER METER FOR LOT 27 SHALL BE REMOVED AND RETURNED TO THE BUREAU OF UTILITIES.
 4. AT THE EX. 8-INCH WATER MAIN, THE EX. CORPORATION COCK ASSEMBLY SHALL BE REMOVED & A PLUG INSERTED.
 5. THE EX. WMC FOR LOT 27 WITHIN THE PUBLIC R/W OF STONECREST DRIVE SHALL BE REMOVED IN ITS ENTIRETY.

NOTE: PRIOR TO BEGINNING ANY WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT A TEST PIT TO DETERMINE THE "AS BUILT" ELEVATION AT THE END OF THE EXISTING 8" W IN STONECREST DRIVE. ANY DISCREPANCY FROM THE INDICATED INVERT ELEVATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael 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

1000 ...
ELICOTT CITY, MARYLAND 21042



DESIGNED BY:	M.D.T.		
DRAWN BY:	BP	EXTEND 8" SEWER MAIN TO SERVE PARCEL 024	9/7/02
M.D.T.	BP	REMOVE LOCATIONS FOR WHOS	9/7/02
CHECKED BY:	BP	REVISE ALIGNMENT OF EX. WMC	1/11/02
P.W.K.	BP	REVISED SEWER DRAIN ALIGNMENT	1/11/02
DATE:	JUNE, 2001	BY NO.	REVISION

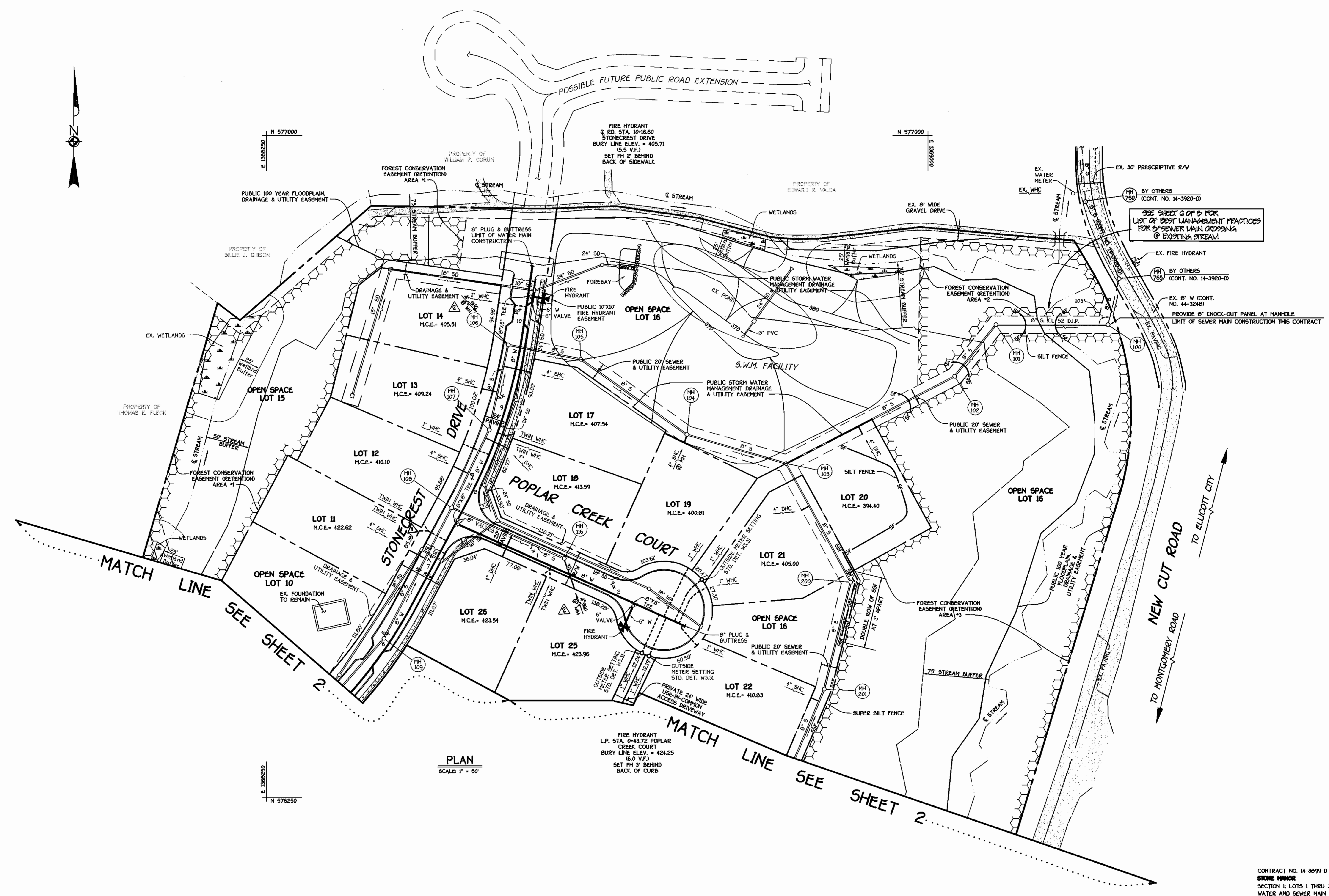
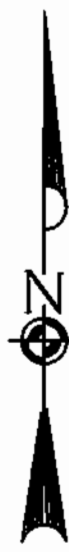
WATER AND SEWER MAINS
PLAN VIEW

600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30812
FILE NAME: 30815 FINAL WATER AND SEWER PLAN SHT. 2

STONE MANOR
SECTION 1; LOTS 1 THRU 31
CONTRACT NO. 14-3099-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 8

K:\Drawings\330615 Stone Manor\Water\30815 Final Water and Sewer Plan Sht. 2.dwg Thu Jun 14 11:17:50 2001



PLAN
SCALE: 1" = 50'

SEE SHEET 2 OF 8 FOR LIST OF BEST MANAGEMENT PRACTICES FOR 2" SEWER MAIN CROSSING @ EXISTING STREAM

PROVIDE 8" KNOCK-OUT PANEL AT MANHOLE LIMIT OF SEWER MAIN CONSTRUCTION THIS CONTRACT

MATCH LINE SEE SHEET 2

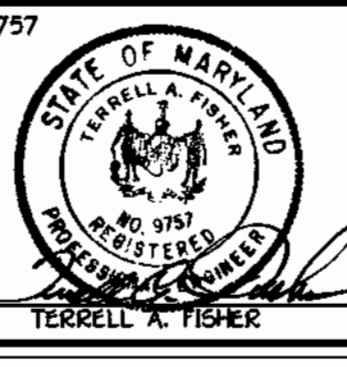
MATCH LINE SEE SHEET 2

NEW CUT ROAD
TO MONTGOMERY ROAD
TO ELLICOTT CITY

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael A. Simonillo for P.W. Chief, Bureau of Utilities
6-16-01

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Chief, Development Engineering Division
6/26/01

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
1100 461 - 2855



DESIGNED BY:	M.D.T.
DRAWN BY:	M.D.T.
CHECKED BY:	P.W.C.
DATE:	JUNE, 2001
BY NO.	
REVISION	
3/7/02	REPLACE LOCATIONS FOR SHC'S
1/11/02	REVISE FRONT FOOTAGE; LOT 11

WATER AND SEWER MAINS
PLAN VIEW
600' SCALE MAP NO. 31 BLOCK NO. 1
F.C.C. WORK ORDER NO. 30615
FILE NAME: 30615 FINAL WATER AND SEWER PLAN SHT 3

CONTRACT NO. 14-3099-D
STONE MANOR
SECTION 1, LOTS 1 THRU 31
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 3 OF 8

K:\Drawings\3130615 Stone Manor\WSS\Final\30615 Final Water and Sewer Plan Sht. 3.dwg Thu Jun 14 11:22:43 2001

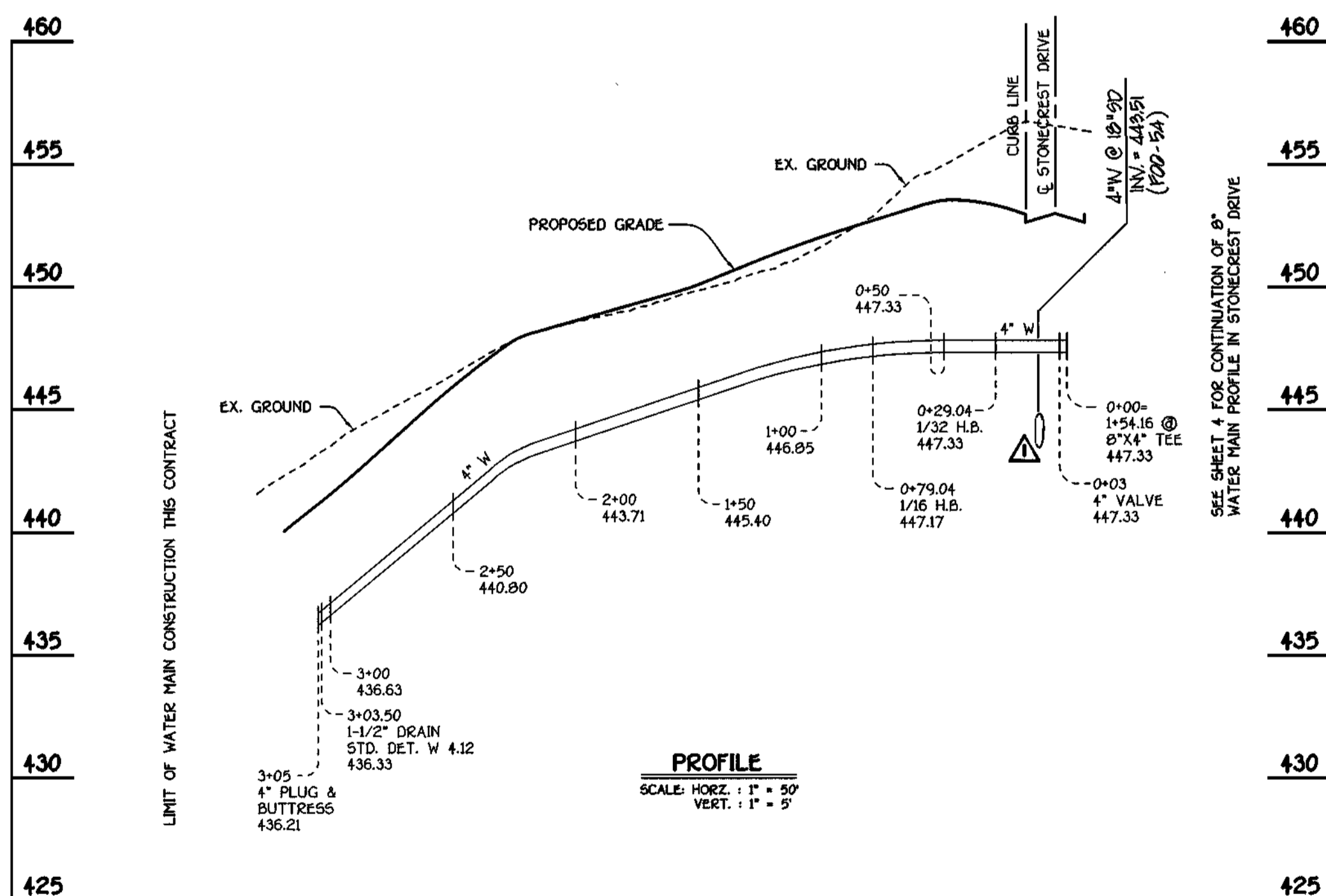
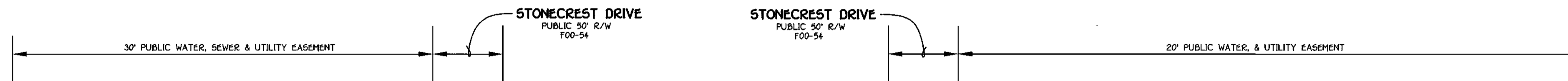
MANHOLE TABULATION CHART				
NO.	ROAD STATION	DISTANCE	SLOPE	RIM ELEVATION
100				362.50**
101				373.40**
102				387.50**
103				406.00**
104				403.00**
105				403.00**
106	9+58.15 STONECREST DRIVE	7.00' LT.	-6.92%	408.65
107	8+58.69 STONECREST DRIVE	3.00' LT.	-8.20%	416.93
108	7+59.89 STONECREST DRIVE	5.30' LT.	-6.00%	423.78
109	5+93.07 STONECREST DRIVE	0.82' LT.	-4.80%	431.99
110	3+01.79 STONECREST DRIVE	5.00' LT.	-7.08%	446.62
111	2+65.03 STONECREST DRIVE	19.15' LT.		449.20
112				439.40**
113				448.50**
114				440.00**
115				449.50**
116	1+35.23 POPLAR CREEK COURT	7.00' LT.	-1.00%	426.08
200				397.10**
201				410.40**
202				425.00**
203				422.00**
204				418.00**
205				433.40**
206				440.80**

WATER MAIN TABULATION CHART			
WM STATION	APPURTENANCE	ROAD STATION	DISTANCE
STONECREST DRIVE			
0+00	CONNECT TO EX. 8" W	-0+05.90	15.03' RT.
0+05	1/8 H.B.	-0+00.90	15.03' RT.
0+16.28	1/8 H.B.	0+07.04	7.00' RT.
0+22.74	8" VALVE	0+13.50	7.00' RT.
0+89.54	1/32 H.B.	0+80.31	7.00' RT.
1+43.78	1/16 H.B.	1+32.14	7.00' RT.
1+54.36	8" X 4" TEE	1+41.84	4.76' RT.
1+64.21	8" X 4" TEE	1+51.50	3.31' RT.
2+24.73	8" X 6" TEE	2+12.07	5.03' RT.
2+40.41	1/32 H.B.	2+28.12	3.43' RT.
3+10.89	1/32 H.B.	3+01.79	7.00' RT.
5+37.44	P.C. (CRIMP RADIUS = 500')	5+28.34	7.00' RT.
6+49.39	P.T. (CRIMP RADIUS = 500')	6+38.75	7.00' RT.
7+57.12	8" X 8" TEE	7+46.48	7.00' RT.
7+60.12	8" VALVE	7+49.48	7.00' RT.
7+78.57	P.C. (CRIMP RADIUS = 607')	7+67.93	7.00' RT.
9+90.09	P.T. (CRIMP RADIUS = 607')	9+77.01	7.00' RT.
10+29.68	8" X 6" TEE	10+16.60	7.00' RT.
10+64.00	8" PLUG & BUTTRESS	10+50.92	7.00' RT.
POPLAR CREEK COURT			
0+00	8" X 8" TEE	0+06.50	7.00' RT.
0+03	8" VALVE	0+09.50	7.00' RT.
2+22.01	8" X 6" TEE	0+36.36	7.00' RT.
2+85	8" PLUG & BUTTRESS	LP. STA. 0+24.72	14.95' LT.

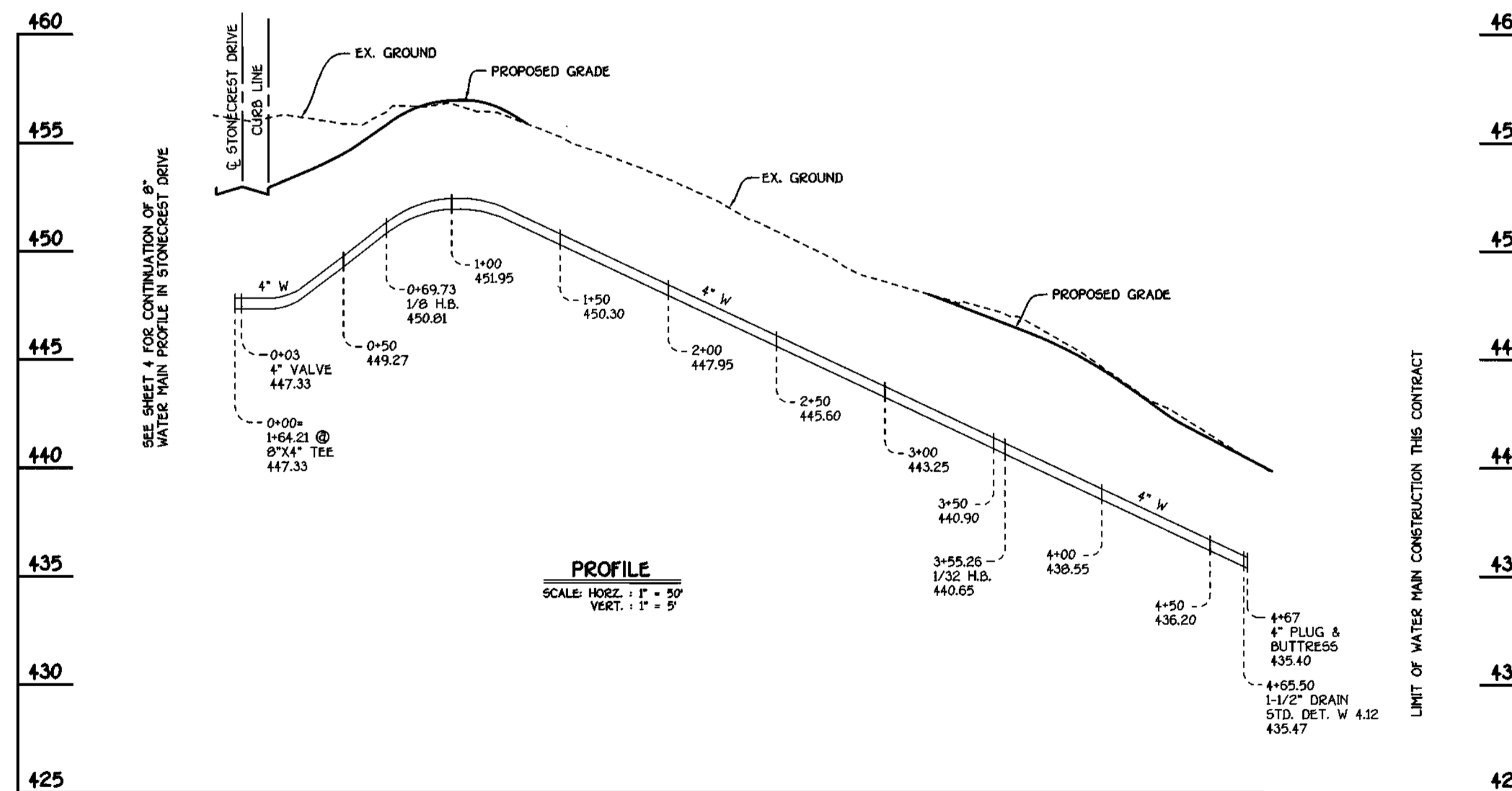
4" WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
4" WATER MAIN FOR LOTS 2-5			
0+00	8" X 4" TEE	576055.25	1368160.65
0+03	4" VALVE	576055.45	1368157.66
0+29.04	1/32 H.B.	576057.21	1368131.68
0+79.04	1/16 H.B.	576070.55	1368083.50
3+03.50	1-1/2" DRAIN	576218.70	1367914.87
3+05.00	4" PLUG & BUTTRESS	576219.89	1367913.74
4" WATER MAIN FOR LOTS 29-32			
0+00	8" X 4" TEE	576065.27	1368161.33
0+03	4" VALVE	576065.07	1368164.32
0+69.73	1/8 H.B.	576066.96	1368230.91
3+55.26	1/32 H.B.	575842.95	1368415.77
4+65.50	1-1/2" DRAIN	575770.37	1368498.87
4+67.00	4" PLUG & BUTTRESS	575769.38	1368499.87

SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+23 LT.	MH 102 TO MH 103	
	20 (DHC)	388.70
	MH 103 TO MH 104	
	19 (SHC @ MH)	395.21
⊙ MH 104 LT.	MH 105 TO MH 106	
	14 (SHC @ MH)	400.17
⊙ MH 106 CT.	MH 106 TO MH 107	
	17	402.04
0+25 LT.	13	403.94
0+55 RT.	MH 107 TO MH 108	
	18	407.99
0+10 LT.	12	410.70
0+55 RT.	MH 108 TO MH 109	
	11	417.12
0+65 RT.	MH 109 TO MH 110	
	9	424.29
0+80 RT.	8 (DHC)	428.90
1+85 RT.	7 (DHC)	434.40
2+65 RT.	MH 111 TO MH 112	
	6 (DHC)	440.20
0+15 LT.	MH 112 TO MH 113	
	5 (DHC)	434.20
0+15 RT.	MH 113 TO MH 114	
	2 (DHC)	436.40
0+55 LT.	3 (SHC @ MH @ 1.00X)	427.75
⊙ MH 114 LT.	4 (SHC @ MH @ 1.00X)	427.70
⊙ MH 114 RT.	MH 113 TO MH 115	
	1 (SHC @ MH)	442.70
⊙ MH 115 RT.	MH 103 TO MH 200	
	21 (DHC)	399.70
0+55 RT.	MH 201 TO MH 202	
	22	404.93
0+15 RT.	23 (DHC)	420.20
1+00 RT.	MH 202 TO MH 203	
	24 (SHC @ MH)	411.76
0+80 RT.	MH 203 TO MH 204	
	27 (SHC @ MH)	413.07
⊙ MH 204 RT.	MH 205 TO MH 206	
	29	426.09
0+15 LT.	28	426.16
0+25 RT.	30 (SHC @ MH)	427.03
⊙ MH 206 LT.	MH 108 TO MH 116	
	26	418.04
0+75 RT.	25 (DROP CONN. @ MH)	418.72
⊙ MH 116 RT.	31	424.79
⊙ MH 116 LT.		

* SET MH RIM 1'-6" ABOVE EXISTING GROUND, STD. DET. G.541
 ** SET MH RIM FLUSH W/ EXISTING OR PROPOSED GROUND AS APPLICABLE



4" WATER MAIN TO LOTS 2, 3, 4 & 5



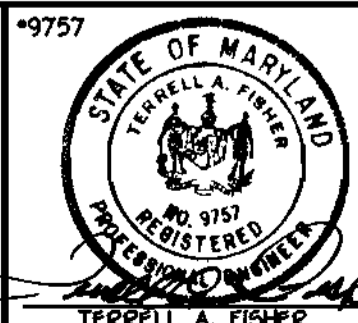
4" WATER MAIN TO LOTS 28, 29, 30 & 31

CONTRACT NO. 14-3899-D
 STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 WATER AND SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 8272 BALTIMORE NATIONAL PIKE
 SUITE 201, MARYLAND 20814
 410-421-2855



DESIGNED BY:	M.D.T.		
DRAWN BY:	M.D.T.		
CHECKED BY:	P.W.K.		
DATE:	JUNE, 2001		
BY:	NO.	REVISION	
BLP	Δ	REVERSE LOCATION OF SHC TO LOT 31	9/7/02
BLP	Δ	REVERSE SHC INVERT @ PROPERTY LINE ELEVATIONS	9/7/02
BY	Δ	ADDED STORM DRAIN CROSSING	1/11/02

WATER MAINS
 PROFILES

600' SCALE MAP NO. 31 BLOCK NO. 1
 F.C.C. WORK ORDER NO. 30615
 FILE NAME: 30615 FINAL WATER MAIN PROFILES SHTS

STONE MANOR
 SECTION 1; LOTS 1 THRU 31
 CONTRACT NO. 14-3899-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 5 OF 8