

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		SUPPLIER
		QUANTITIES	TYPE	
Ø5" PVC SDR-35	418 LF.	411	SDR-35	NATIONAL PIPE
Ø5" PVC SDR-35	91 LF.	78.5	SDR-35	NATIONAL PIPE
CLEAN-OUTS	5 EACH	5	PRE-CAST	HORNE CON.
MANHOLES	5 EACH	5	PRE-CAST	HORNE CON.
ØW 900 PVC DR-18	304 LF.	297	C-900	NATIONAL PIPE
ØW 900 PVC DR-18	9 LF.	7.5	C-900	NATIONAL PIPE
ØW 900 PVC DR-18	102 LF.	102	C-900	NATIONAL PIPE
1-1/2" WVC	73 LF.	88	T-YPE K	MUELLER
Ø1/2" TAPPING SLEEVE	1 EACH	1		SMITH BLAIR
Ø1/2" F.H. TEE	1 EACH	1		TYLER
Ø" TAPPING VALVE	1 EACH	1	MJ	MUELLER
Ø" VALVE	1 EACH	1		MUELLER
Ø" VALVE	1 EACH	1		MUELLER
1/8" H.B.	1 EACH	1		TYLER
1/16" H.B.	1 EACH	1		TYLER
3" H.O.C.	2 EACH	2		CERTAIN TEED
1" FLUG & BUTTRESS	1 EACH	1		TYLER
FIRE HYDRANT	1 EACH	1		MUELLER
CONTINUITY TEST STATION	1 EACH	1		HORNE CON.
1" SINGLE OUTSIDE METER SETTING	6 EACH	6		HORNE CON.

**BENCHMARK INFORMATION**  
 B.M.#1 - HOWARD COUNTY CONTROL STATION #37BA - HORIZONTAL - NAD '83 (LOCATED ALONG THE SOUTH SIDE OF MONTGOMERY ROAD, EAST OF BRANDONS WAY. APPROX. 9.7' OFF EDGE OF PAVING AND 64' EAST OF CL DRIVEWAY FOR #6028)  
 N 563,785.815  
 E 1,376,343.290  
 ELEVATION = 393.985 - VERTICAL - (NAVD '88)  
 B.M.#2 - HOWARD COUNTY CONTROL STATION #37BC - HORIZONTAL - (NAD '83) (LOCATED ALONG THE NORTH SIDE OF MONTGOMERY ROAD, WEST OF BELLANCA DRIVE. APPROX. 1' BEHIND SIDEWALK AND 8.2' EAST OF 3RD POST ON GUARD RAIL)  
 N 563,666.807  
 E 1,378,054.921  
 ELEVATION = 373.107 - VERTICAL - (NAVD '88)

**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 THE 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. Keibel, FOR:  
 MG LAND HOLDINGS, LLC  
 SIGNATURE OF DEVELOPER  
 09/14/18  
 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.  
 Paul W. Keibel  
 SIGNATURE OF ENGINEER  
 09/13/18  
 DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 309 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE FINAL ROAD CONSTRUCTION PLANS; F-18-093.  
 Paul W. Keibel, FOR:  
 MG LAND HOLDINGS, LLC  
 SIGNATURE OF DEVELOPER  
 09-14-18  
 DATE

F-18-093  
 THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.  
 APPROVED:  
 John R. Reuter  
 HOWARD SOIL CONSERVATION DISTRICT  
 10/23/18  
 DATE

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 CHIEF, BUREAU OF UTILITIES  
 10/5/18  
 DATE

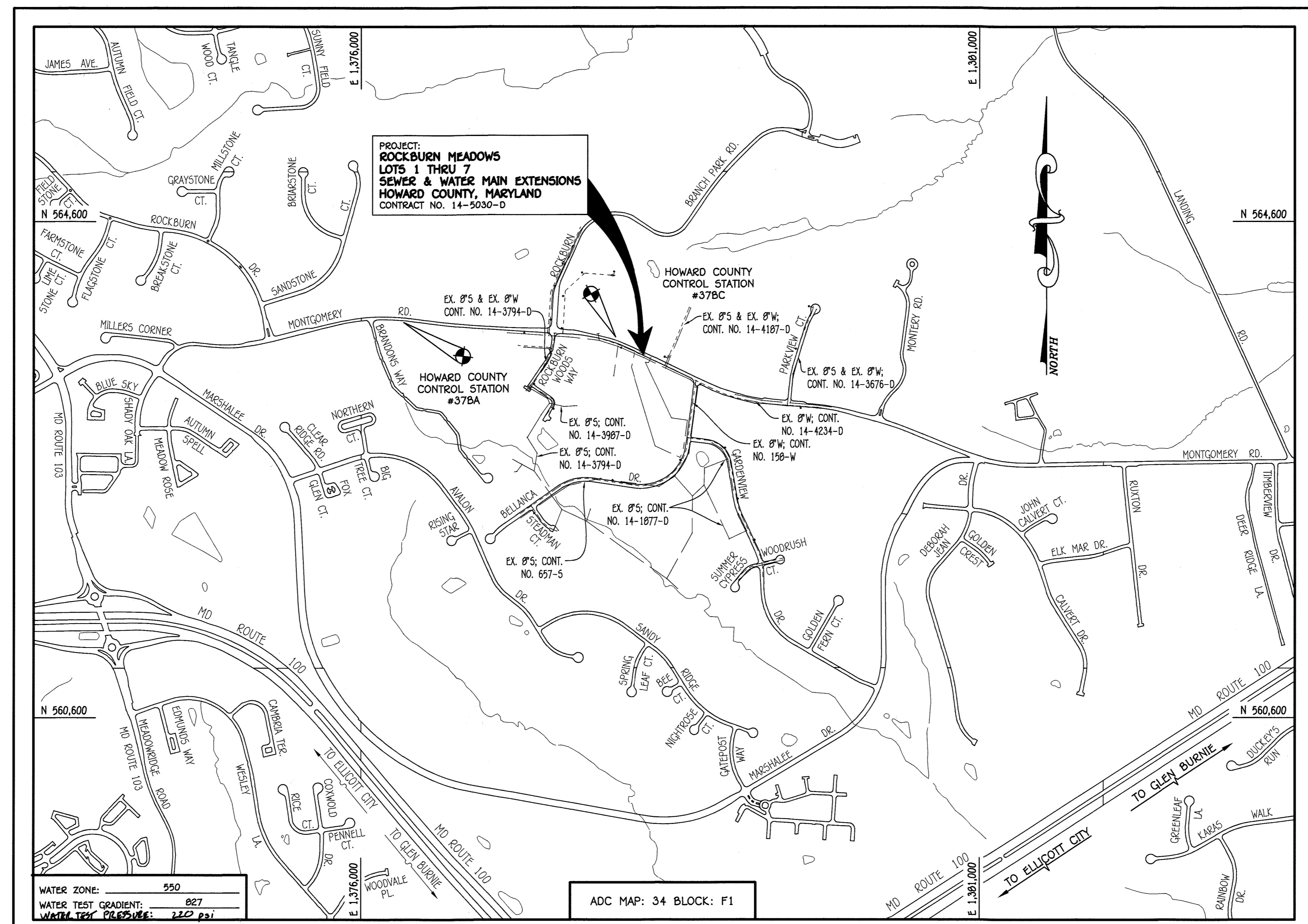
DEPARTMENT OF PLANNING AND ZONING  
 HOWARD COUNTY, MARYLAND  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
 10-29-18  
 DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO. 12043 EXPIRATION DATE IS 7/18/20.  
 FISHER, COLLINS & CARTER, INC.  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2999  
 Paul W. Keibel  
 09/13/18  
 DATE

DESIGNED BY :	B.C.R.
DRAWN BY :	B.C.R.
CHECKED BY :	P.W.K.
DATE :	SEPTEMBER, 2018
WRA	AS-BUILT INFORMATION ADDED
NO.	REVISION

SEWER & WATER MAIN EXTENSIONS  
 TITLE SHEET  
 600' SCALE MAP NO. 37 BLOCK NO. 5  
 F.C.C. WORK ORDER NO. 17017-3001  
 FILE NAME : SEWER & WATER MAIN EXTENSION PLAN

ROCKBURN MEADOWS  
 LOTS 1 THRU 7  
 SEWER & WATER MAIN EXTENSIONS  
 CONTRACT NO. 14-5030-D  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE AS SHOWN  
 SHEET 1 OF 3

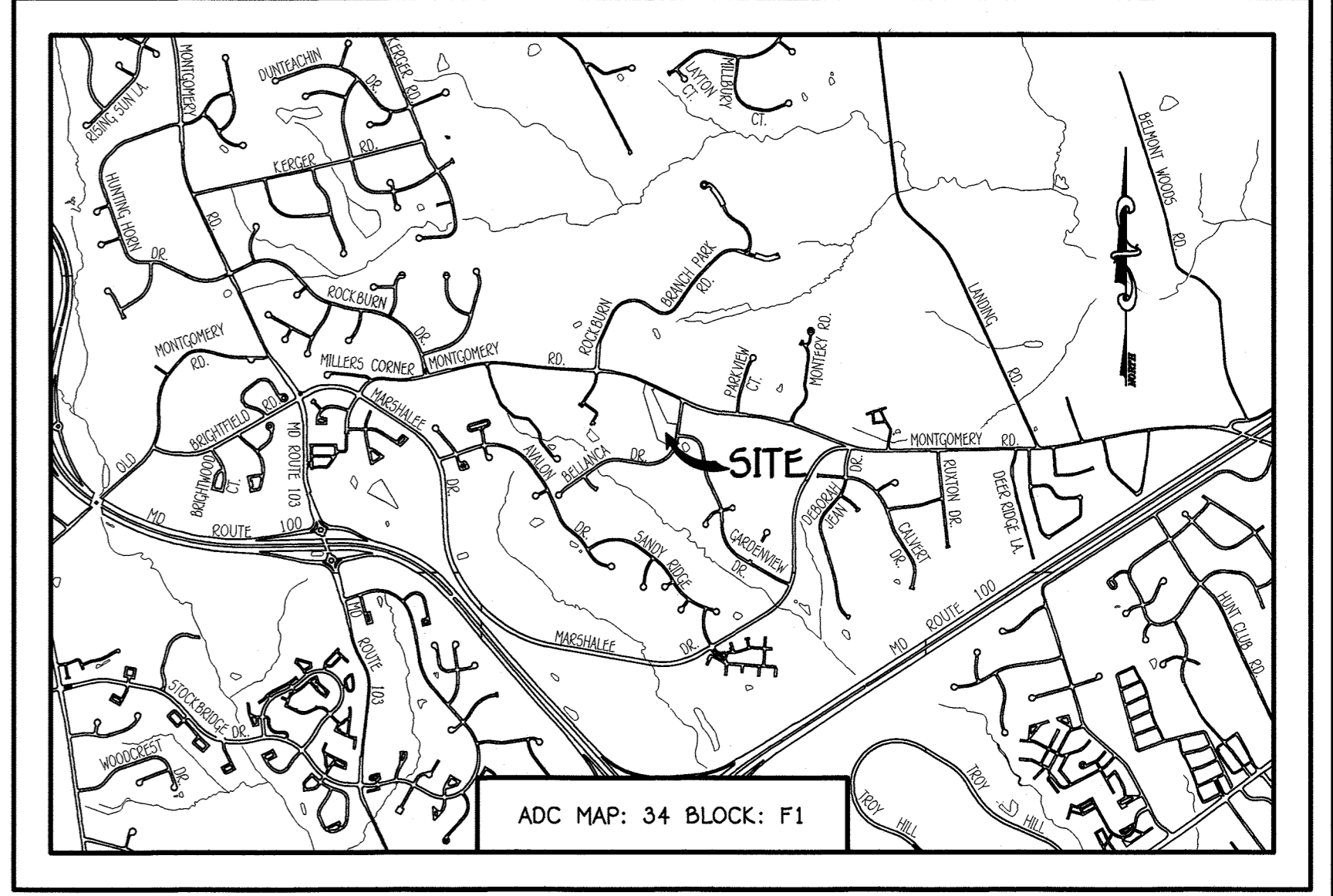


TYPE OF BUILDING:	RESIDENTIAL: SINGLE FAMILY DETACHED
NUMBER OF LOTS:	7
NO. OF WATER HOUSE CONNECTIONS:	6 (1 EXISTING)
NO. OF SEWER HOUSE CONNECTIONS:	2 (2 EXISTING)
SEWER SHED:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT; CITY OF BALTIMORE

**LOCATION MAP**  
 SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:	5F-17-012 (SCP-17-067)
	F-18-093 (ROAD PLANS & RECORD PLAT)

# CONTRACT NO. 14-5030-D ROCKBURN MEADOWS LOTS 1 THRU 7 SEWER & WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND



**VICINITY MAP**  
 SCALE: 1" = 2000'

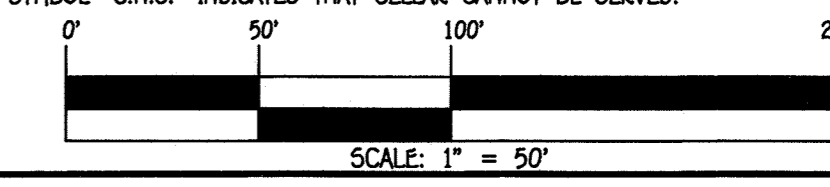
- GENERAL NOTES**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
  - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT MAY, 2017 BY FISHER, COLLINS & CARTER, INC.
  - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 378A & NO. 378B. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
  - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
  - ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING THE ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWNED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
  - 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 (LATEST EDITION). 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 LOCATIONS OF THE TEST PITS. 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 OUG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
  - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 

ATA (CONTRACTOR SERVICES)	1-800-252-1133
BGE (EMERGENCY)	410-637-8713
BUREAU OF UTILITIES	410-695-0123
COLONIAL PIPELINE CO	410-313-4900
MISS UTILITY	410-779-1390
STATE HIGHWAY ADMINISTRATION	1-800-257-7777
VERIZON	410-531-3533
	1-800-743-0033 / 410-224-9210
  - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE 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 OF THE MAIN. THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.

- PART B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE AWWA C900 PVC; DR-18.
  - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
  - VALVES ADJACENT TO TEES SHALL BE STOPPED TO TEES.
  - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
  - FORCE HYDRANTS SHALL BE TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
  - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410)-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.
  - TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P.'S AND PVC WATER MAINS IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL.
  - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
  - UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
  - PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE JOINT. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.
  - ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED, WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20 FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.

- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1 1/2-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900. SHALL HAVE A MINIMUM LAY LENGTH OF 5-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR-18 OR EQUAL.

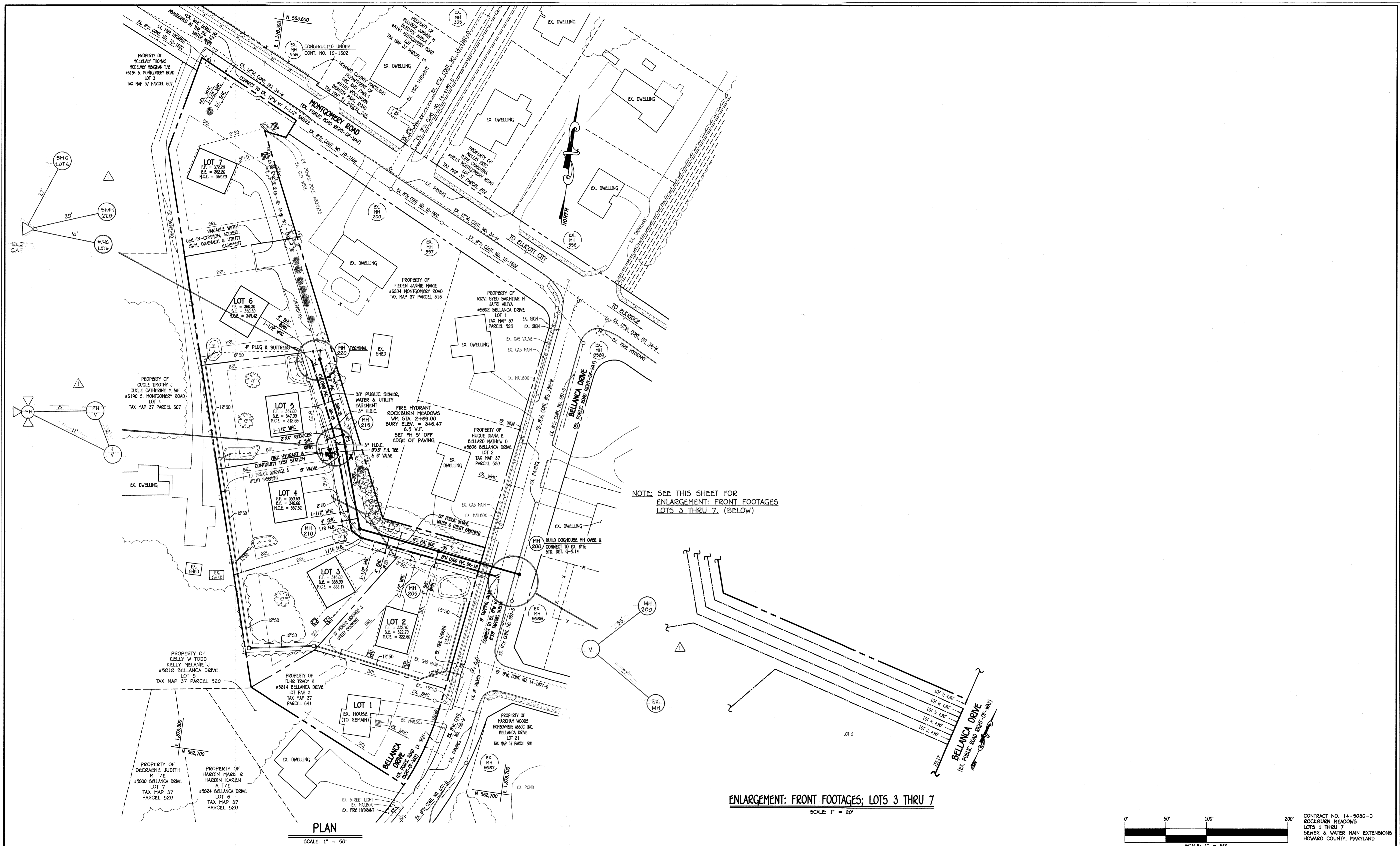
- PART C: SEWER MAIN GENERAL NOTES**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
  - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
  - FORCE MAINS SHALL BE D.I.P. ONLY.
  - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
  - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERKIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERKIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-0" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



**OWNERS**  
 TRACEY R. FUHR  
 5814 BELLANCA DRIVE  
 ELK RIDGE, MD 21075  
 &  
 WALTER A. MAYER  
 THELMA T. MAYER  
 6198 MONTGOMERY ROAD  
 ELK RIDGE, MD 21075

**DEVELOPER**  
 MG LAND HOLDINGS, LLC  
 4652 SHEPPARD LANE  
 ELICOTT CITY, MD 21042  
 410-409-0333

CONTRACT NO. 14-5030-D  
 ROCKBURN MEADOWS  
 LOTS 1 THRU 7  
 SEWER & WATER MAIN EXTENSIONS  
 HOWARD COUNTY, MARYLAND



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*[Signature]*  
CHIEF, BUREAU OF UTILITIES

10/5/18  
DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

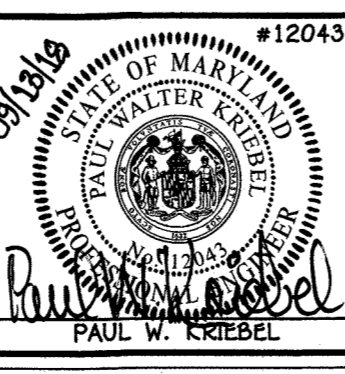
*[Signature]*  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

10-29-18  
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12640 EXPIRATION DATE 5/31/2020.

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

CENTRAL SQUARE OFFICE: 10272 BALTIMORE NATIONAL PkE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2895



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	SEPTEMBER, 2018
BY:	NO.
REVISION:	ASBUILT INFORMATION ADDED

SEWER & WATER MAIN EXTENSIONS PLAN & ENLARGEMENT: FRONT FOOTAGES	
600' SCALE MAP NO. 37	BLOCK NO. 5
F.C.C. WORK ORDER NO. 17017-3001	
FILE NAME:	SEWER & WATER MAIN EXTENSION PLAN

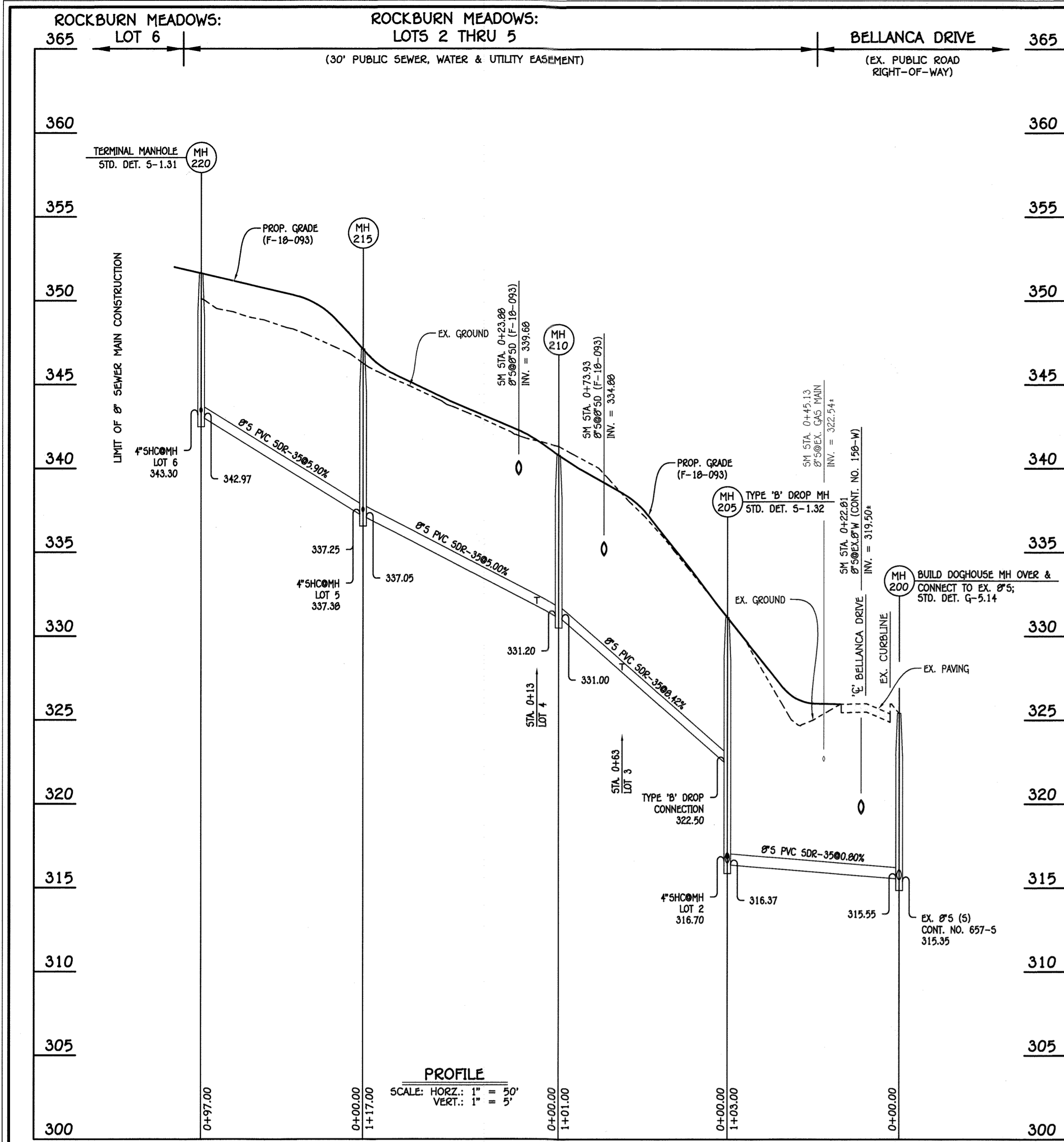
ROCKBURN MEADOWS  
LOTS 1 THRU 7  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 14-5030-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 2 OF 3



CONTRACT NO. 14-5030-D  
ROCKBURN MEADOWS  
LOTS 1 THRU 7  
SEWER & WATER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND



8" SEWER MAIN: LOTS 2 THRU 6

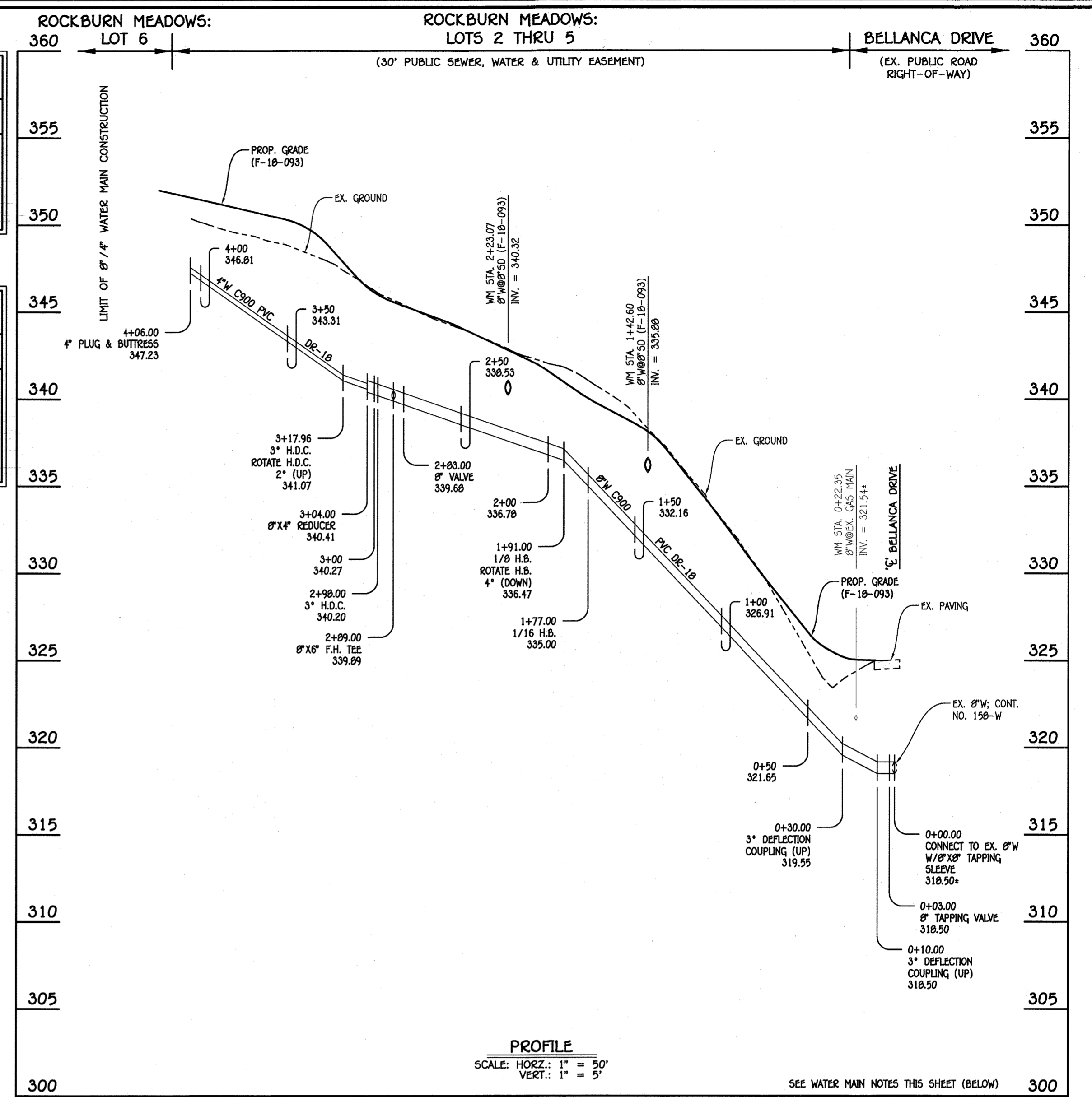
NO.	NORTHING	EASTING	RIM ELEVATION
200	562968.58	1378683.81	325.40
205	562982.55	1378981.76	331.13
210	562996.24	1378481.69	340.80
215	563107.33	1378444.96	347.11
220 (TERMINAL)	563195.13	1378403.73	351.63

NOTE: SET MH RIMS FLUSH W/EXISTING GROUND OR PROPOSED GRADE AS APPLICABLE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EDGE OF EASEMENT	M.C.E.	S.E.	F.F.
MH 200 TO MH 205						
0+63 LT.	2	316.70	317.10	322.60	322.70	332.70
MH 205 TO MH 210						
0+13 LT.	3	327.97	328.37	333.47	335.00	345.00
MH 210 TO MH 215						
0+13 LT.	4	332.02	332.42	337.52	340.60	350.60
MH 215 TO MH 220 (TERMINAL)						
0+57 RT.	6	343.30	343.52	349.42	350.30	360.30

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
2		0MH 205 24'	WATER VALVE 7A'
3		5MH 205 66'	5MH 210 4-4'
4		5MH 210 26'	FH 8-4'
5		FH 17'	5MH 215 21'
6		5MH 220 11'	WHC LOT 6 10'

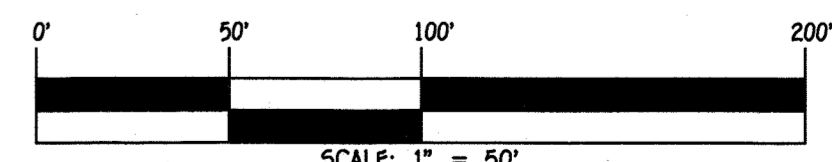
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
2		5MH 210 41'	5MH 205 71'
3		5MH 210 30'	DRAIN BASIN 4-5'
4		5MH 210 31'	DRAIN BASIN 31'
5		5MH 215 26'	FH 33'
6		5MH 220 13'	LOT 6 SHG 10'
7		FH 31'	FHV 30'



8" / 4" WATER MAIN: LOTS 2 THRU 6

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" / 4" WATER MAIN: LOTS 2 THRU 6			
0+00.00	8" X 8" TAPPING SLEEVE	562961.75	1378659.91
0+03.00	8" TAPPING VALVE	562962.16	1378656.94
1+77.00	1/16 H.B.	562285.76	1378484.54
1+91.00	1/8 H.B.	562292.49	1378472.27
2+83.00	8" VALVE	563079.84	1378443.39
2+89.00	8" X 6" F.H. TEE	563085.54	1378441.50
2+98.00	3" H.D.C.	563094.08	1378438.68
3+04.00	8" X 4" REDUCER	563099.66	1378436.46
3+17.96	3" H.D.C.	563112.63	1378431.29
4+06.00	4" PLUG & BUTTRESS	563192.31	1378393.86

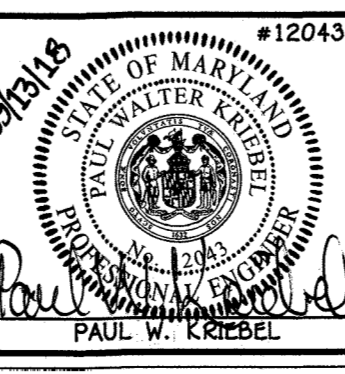
- WATER MAIN NOTES:
- ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE; DR-18.
  - ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
  - DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
  - ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
10/15/18  
DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
10-21-18  
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.  
LICENSE NO. 12640 EXPIRATION DATE 5/7/18/20.  
**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PkE  
ELICOTT CITY, MARYLAND 21042  
(410) 461-2899



DESIGNED BY: B.C.R.  
DRAWN BY: B.C.R.  
CHECKED BY: P.W.K.  
DATE: 4/28/20  
WRA AS-BUILT INFORMATION ADDED  
REVISION  
SEPTEMBER, 2018

SEWER & WATER MAIN EXTENSIONS  
PROFILES, CHARTS, NOTES &  
"AS-BUILT" LOCATION TABLES  
600' SCALE MAP NO. 37 BLOCK NO. 5  
F.C.C. WORK ORDER NO. 17017-3001  
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

ROCKBURN MEADOWS  
LOTS 1 THRU 7  
SEWER & WATER MAIN EXTENSIONS  
CONTRACT NO. 14-5030-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 3 OF 3