

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" S; PVC; SDR-35	750 L.F.			
8" S; DIP CL-54	549 L.F.			
4" S; SDR-35	362 L.F.			
CLEAN-OUTS	13 EACH			
MANHOLES	16 EACH			
6" W. C900 PVC; DR-18	1015 L.F.			
6" W. C900 PVC; DE-18	30 L.F.			
1-1/2" W.H.C.	190 L.F.			
3" H.D.C.	4 EACH			
1/8" H.B.	1 EACH			
1/16" H.B.	3 EACH			
1/32" H.B.	1 EACH			
8" TAPPING SLEEVE	1 EACH			
8" TAPPING VALVE	1 EACH			
8" X 8" TEE	1 EACH			
8" X 6" F.H. TEE	3 EACH			
8" VALVE	2 EACH			
6" VALVE	3 EACH			
FIRE HYDRANT	3 EACH			
CONTINUITY TEST STATION	3 EACH			
OUTSIDE METER SETTING	13 EACH			
8" PLUG & BUTTRESS	2 EACH			

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

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #25A1 - HORIZONTAL - (NAD '83)
(LOCATED IN THE CURB-DE-SAC OF RIDGE ROAD, APPROX. 11.3' FROM THE STREET SIGN AND 3.5' FROM FACE OF CURB)
N 586557.549
E 136567.100
ELEVATION = 396.354 - VERTICAL - (NAVD '86)

B.M.#2 - HOWARD COUNTY CONTROL STATION #25A2 - HORIZONTAL - (NAD '83)
(LOCATED ALONG THE EAST SIDE OF RIDGE AVENUE, SOUTH OF OAK WEST DRIVE, APPROX. 6.2' FROM A SEWER MANHOLE, 16.1' OFF EDGE OF SIDEWALK AND 12' FROM END OF CURB)
N 587502.730
E 1365956.378
ELEVATION = 348.159 - VERTICAL - (NAVD '86)

PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
0013	3558 CHURCH ROAD	CHARLES T. LACEY	N/A	YES

NOTE: WATER METERS WILL NOT BE RELEASED BY HOWARD COUNTY TO ANY NEW BUILDING UNTIL THE EXISTING WELLS AND SEPTIC SYSTEMS HAVE BEEN ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS AND THE EXISTING BUILDINGS, WHICH ARE TO REMAIN, ARE CONNECTED TO THE PUBLIC SEWER AND WATER MAINS.

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 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.

Signature of Developer: *B. James Enfield* DATE: 8/21/23

ENGINEER'S CERTIFICATION

I, THE ENGINEER, CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL IS 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.

Signature of Engineer: *Alexander Balthus* DATE: 8/21/23

SEDDIMENT 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 ROAD CONSTRUCTION PLAN, F-21-015

Signature of Developer: *B. James Enfield* DATE: 8/21/23

F-21-015

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

Signature of Developer: *Alexander Balthus* DATE: 8/18/23

SYMBOL	DESCRIPTION
---	EX. WATER MAIN
---	EX. SEWER MAIN
○	EX. SEWER MANHOLE
---	EX. SEWER, WATER & UTILITY EASEMENT
⊕	EX. FIRE HYDRANT
⊕	EX. VALVE
---	PROP. WATER MAIN
---	PROP. SEWER MAIN
○	PROP. SEWER MANHOLE
---	PROP. SEWER, WATER & UTILITY EASEMENT
---	PROP. W.H.C.
---	PROP. S.H.C.
⊕	PROP. FIRE HYDRANT
⊕	PROP. VALVE
C.N.S.	CELLAR CAN NOT BE SERVED

TYPE OF BUILDING:	RESIDENTIAL: SINGLE FAMILY DETACHED DWELLINGS
NUMBER OF LOTS:	18 (13 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	13
NO. OF SEWER HOUSE CONNECTIONS:	13
SEWER SHED:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE

LOCATION MAP

SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:

EC-15-044
F-21-015 (RECORD PLAT & PUBLIC ROADS)
SP-15-013

WAVER NOTE: DMV-21-014

BY LETTER DATED JANUARY 20, 2022, MR. DANIEL DAVIS, DIVISION CHIEF, UTILITY DESIGN DIVISION, APPROVED THE FOLLOWING:
A. GRAVITY SEWER SERVICE TO ONLY THE FIRST FLOOR OF THE PROPOSED RESIDENTIAL DWELLINGS ON LOTS 12 & 13.
B. INSTALLATION OF THE SEWER HOUSE CONNECTIONS AT A SLOPE OF 1.00% FOR LOTS 9, 10 & 11.
C. ENCROACHMENT BY THE FOOTER OF THE PROPOSED RETAINING WALL INTO THE 10' STRUCTURE SET-BACK OF THE PUBLIC WATER & UTILITY EASEMENT, WY STA. 2+28 TO WY STA. 3+26; WATERLINE 'A'.
SEE WAVER DMV-21-014 FOR FURTHER DETAIL.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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. 20748 EXPIRATION DATE IS 2/28/25.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERS, CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
BLOOMING GARDENS, MARYLAND 21104
(410) 461-2995



DESIGNED BY:	J.C.L.
DRAWN BY: <td>J.C.L.</td>	J.C.L.
CHECKED BY: <td>A.M.V.</td>	A.M.V.
DATE: <td>AUGUST, 2023</td>	AUGUST, 2023
BY NO.	
REVISION	

DEVELOPER	OWNERS
LAND HOLDINGS, LLC 6. JAMES GREENFIELD 6420 AUTUMN SKY WAY COLUMBIA, MD 21044 (410) 324-4732	CHARLES T. LACEY, SR., KARLOS LACEY AND CHARLES T. LACEY, JR. CO-TRUSTEES, LACEY FAMILY REVOCABLE TRUST 1235 WILD ROSE COURT MARRIOTTVILLE, MARYLAND 21104 (410) 489-0333

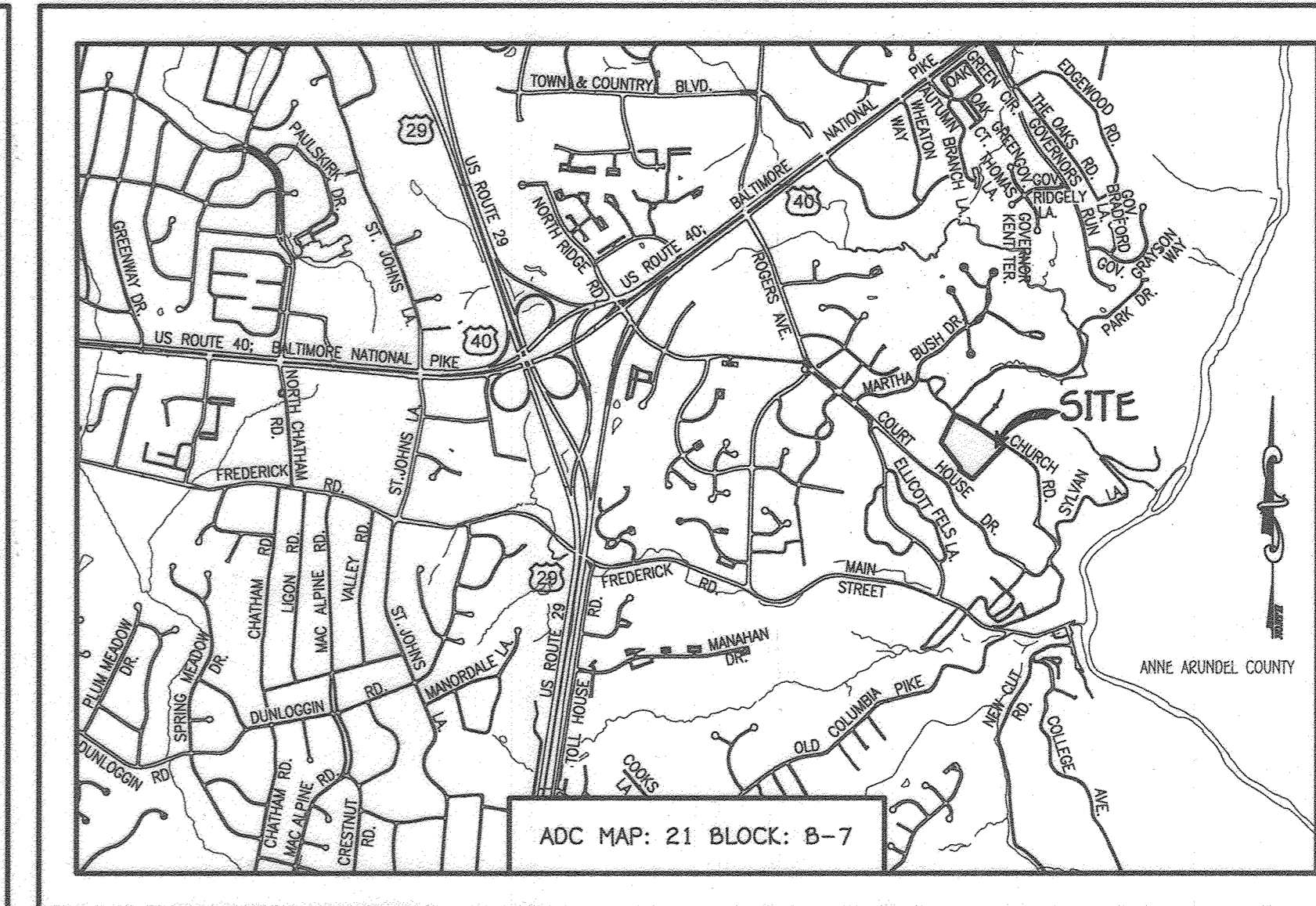
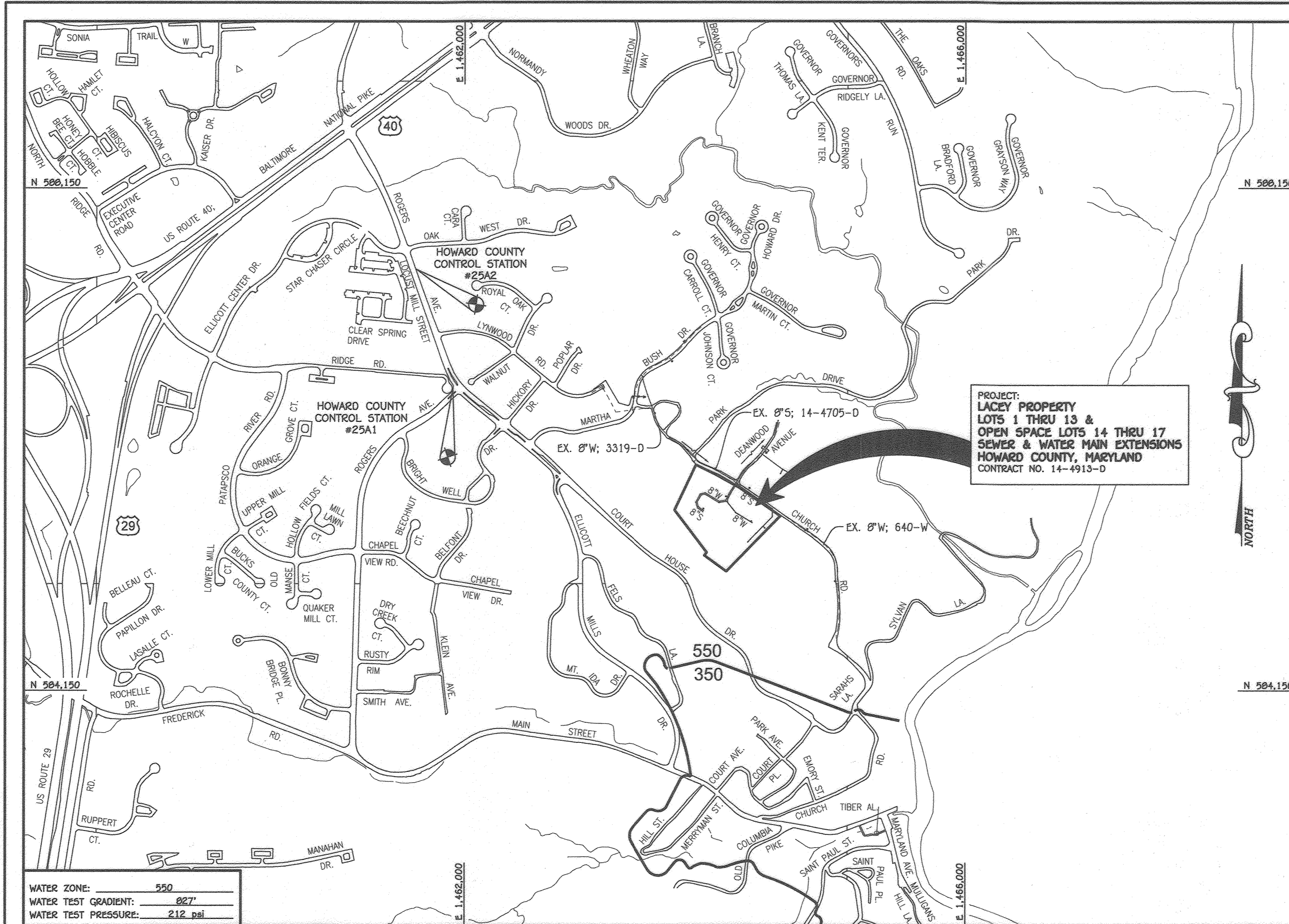
Signature: *Mark O'Neil* DATE: 8/18/2023
CHIEF, BUREAU OF UTILITIES

Signature: *Phil Adams* DATE: 8/18/23
CHIEF, DEVELOPMENT ENGINEERING DIVISION

Signature: *Aldo M. Vitucci* DATE: 8/18/23

SEWER & WATER MAIN EXTENSIONS
TITLE SHEET
600' SCALE MAP NO. 25 BLOCK NO. 1
F.C.C. WORK ORDER NO. 08035
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-4913-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 1 of 5

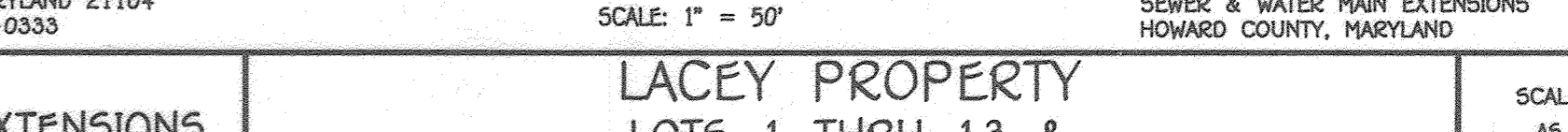


GENERAL NOTES
SCALE: 1" = 2000'

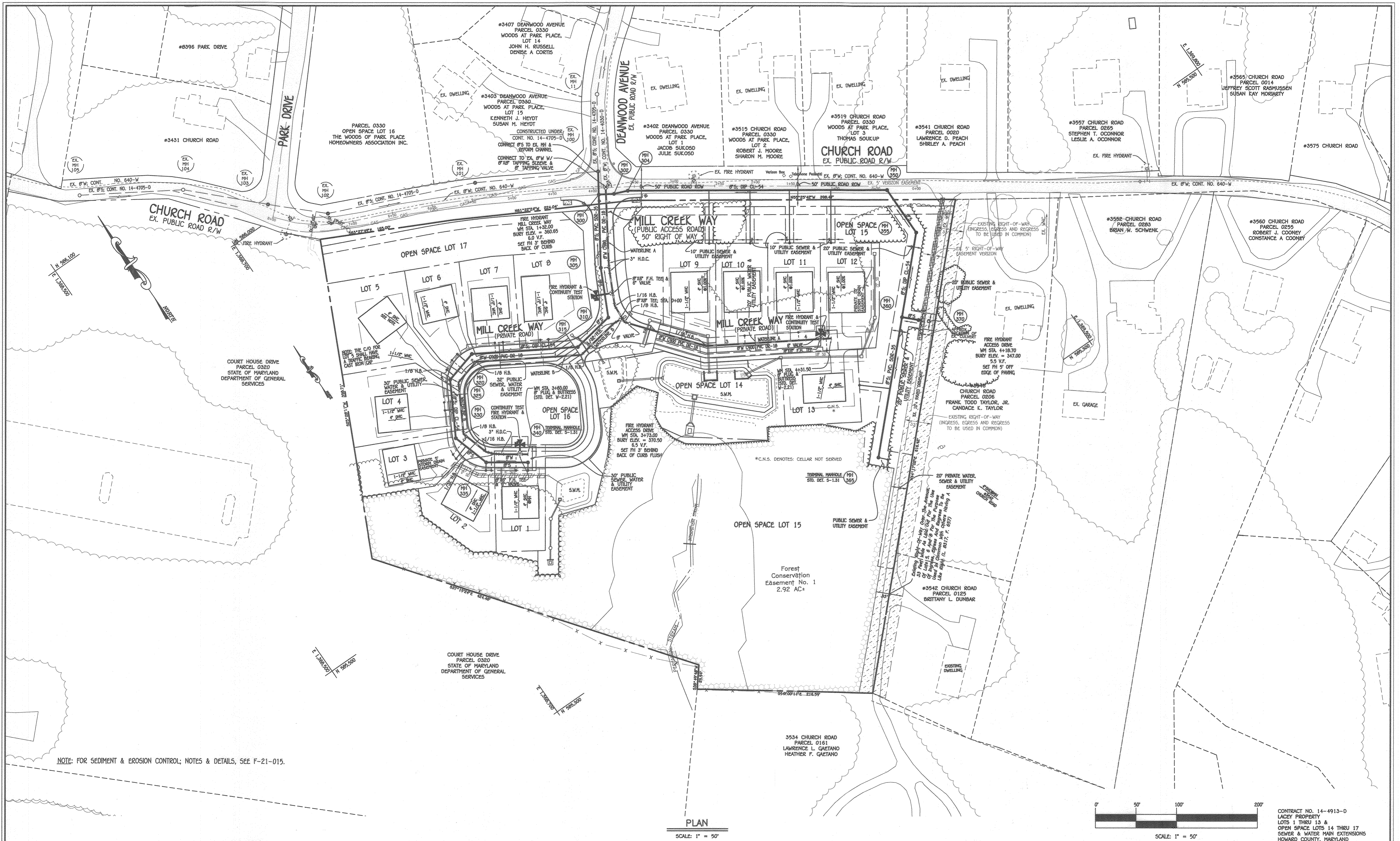
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT APRIL, 2013 BY FISHER, COLLINS & CARTER, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM HAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 25A1 & NO. 25A2.
ALL VERTICAL CONTROLS ARE BASED ON NAVD '86. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
ALL PIPE ELEVATIONS OTHER THAN THOSE NOTED IN THE PLANS.
- CLEAR 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 WORK REQUIRES BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED 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 FITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (C) AT THE LOCATIONS OF THE TEST FITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST FITS OR FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS HAVE NOT BEEN MADE 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:
AT&T 1-800-252-1133
BGE (CONSUMER SERVICES) 410-637-8713
BGE (EMERGENCY) 410-685-0123
BUREAU OF UTILITIES 410-313-4900
COLONIAL PIPELINE CO 410-795-1390
MISS UTILITY 1-800-257-7777
STATE HIGHWAY ADMINISTRATION 410-531-9533
VEZZANO 1-800-743-0363 / 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 BID FOR THE CONSTRUCTION OF THE MAIN.
- 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 18.11(a) OF THE HOWARD COUNTY CODE.

- ALL WATER MAINS SHALL BE AMVA 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 STAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1009 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACE WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND PVC WATER MAINS IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL.
- FOR PVC WATER MAINS: FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AMVA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL. IDENTIFICATIONS 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 HANGERSSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL THESE USED WITH PVC MAINS SHALL BE DUCTILE IRON.
- PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OR GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE JOINTS SHALL 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 WATER MAINS SHALL BE MADE BY STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION(40) 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-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AMVA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- 5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AMVA C900 AND SHALL BE METALLIC FITTINGS (DPS) BLUE BRUTE DR-18 OR EQUAL.
- WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AMVA C900 PVC PIPE, THE CONTRACTOR SHALL INSERT DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5-DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 9000 MEGA-STOP, AS MANUFACTURED BY ESM IRON, INC. OR APPROVED EQUAL.
- TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING, STD. DET. W-3-29.

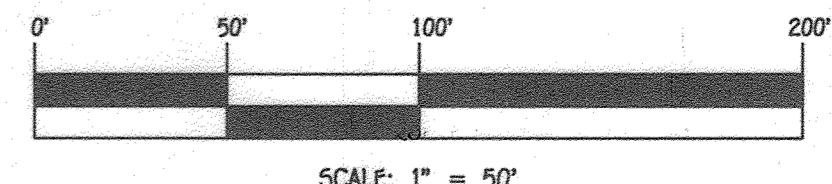
PART C: SEWER MAIN GENERAL NOTES
1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
3. FORCE MAINS SHALL BE 12" WALLS ARE FOR BRICK MANHOLES ONLY.
4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52.
WHERE WATERTIGHT MANHOLES AND COVERS ARE USED, SET TOP OF FRAME 1"-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



CONTRACT NO. 14-4913-D
LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND



PLAN
SCALE: 1" = 50'



CONTRACT NO. 14-4913-D
LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES
DATE: 9/7/2023

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 9.18.23

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. 20746 EXPIRATION DATE IS 2/22/25.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELKNOTT CITY, MARYLAND 21142
(410) 461-2995



DESIGNED BY:	J.C.L.
DRAWN BY:	J.C.L.
CHECKED BY:	A.M.V.
DATE:	AUGUST, 2023
BY NO.	
REVISION	

SEWER & WATER MAIN EXTENSIONS PLAN	
600' SCALE MAP NO. 25	BLOCK NO. 1
F.C.C. WORK ORDER NO. 02035	
FILE NAME:	SEWER & WATER MAIN EXTENSION PLAN

LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-4913-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

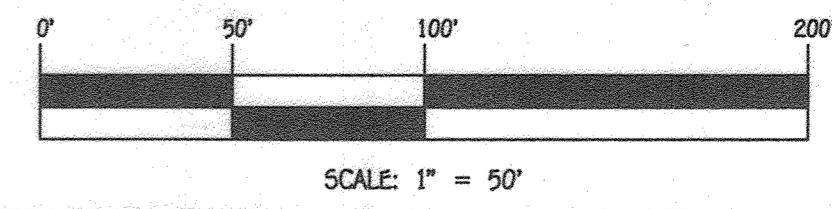
SCALE AS SHOWN
SHEET 2 OF 5

D:\2008\08055\mg\Lacey\FINALS\REVISED-F-Plan 2-1-23\revised Water & Sewer Contract 2-1-23\08055 Water & Sewer Contract Plan (revised 2023 per Maury) (mg) 8/18/2023 2:44:43 PM, Downstairs 11:50, 36m\jarc3



ENLARGEMENT: FRONT FOOTAGES; LOTS 1 THRU 7 & 9 THRU 13
SCALE: 1" = 20'

DEMO PLAN
SCALE: 1" = 50'

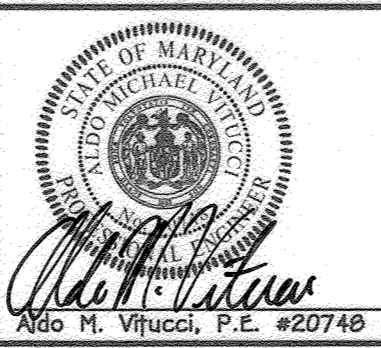


CONTRACT NO. 14-4913-D
LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES
DATE: 9/2/2023

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 9/18/23

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. 20748 EXPIRATION DATE IS 2/22/25.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
BLIHOVE CITY, MARYLAND 21042
(410) 461-2895



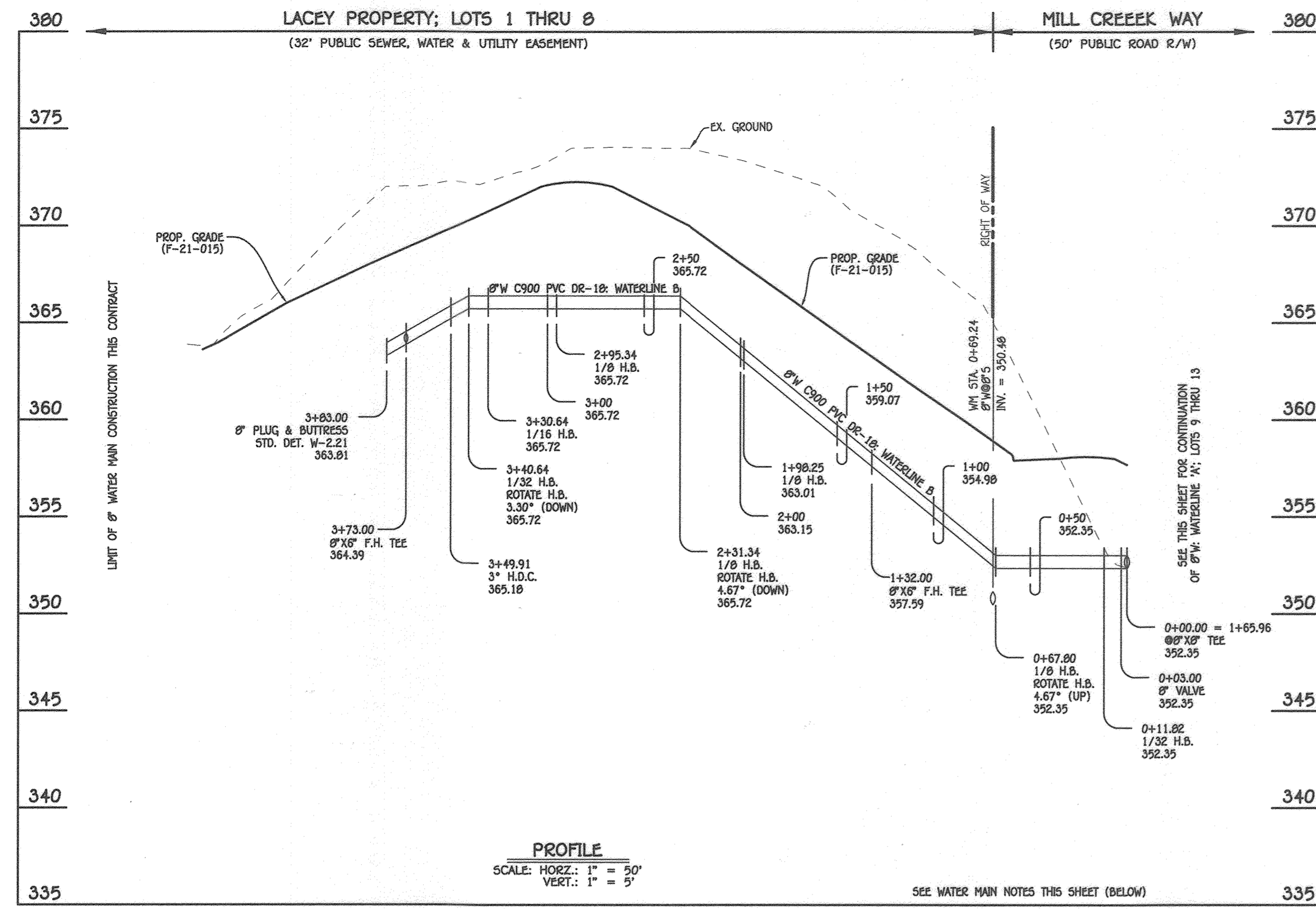
DESIGNED BY:	J.C.L.
DRAWN BY:	J.C.L.
CHECKED BY:	A.M.V.
DATE:	AUGUST, 2023
BY NO.	
REVISION	

SEWER & WATER MAIN EXTENSIONS
DEMO PLAN & FRONT FOOTAGE
ENLARGEMENT
600' SCALE MAP NO. 25 BLOCK NO. 1
F.C.C. WORK ORDER NO. 08035
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-4913-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 5

D:\2020\08035\08035\08035\REVISED-F-Plan 2-1-23\REVISED Water and Sewer Contract 2-1-23\08035 Water & Sewer Contract Plan (revised 2023 per Mawry) (Aug 8/18/2023 2:55:55 PM) Download 11900_36m\lsc.pcx

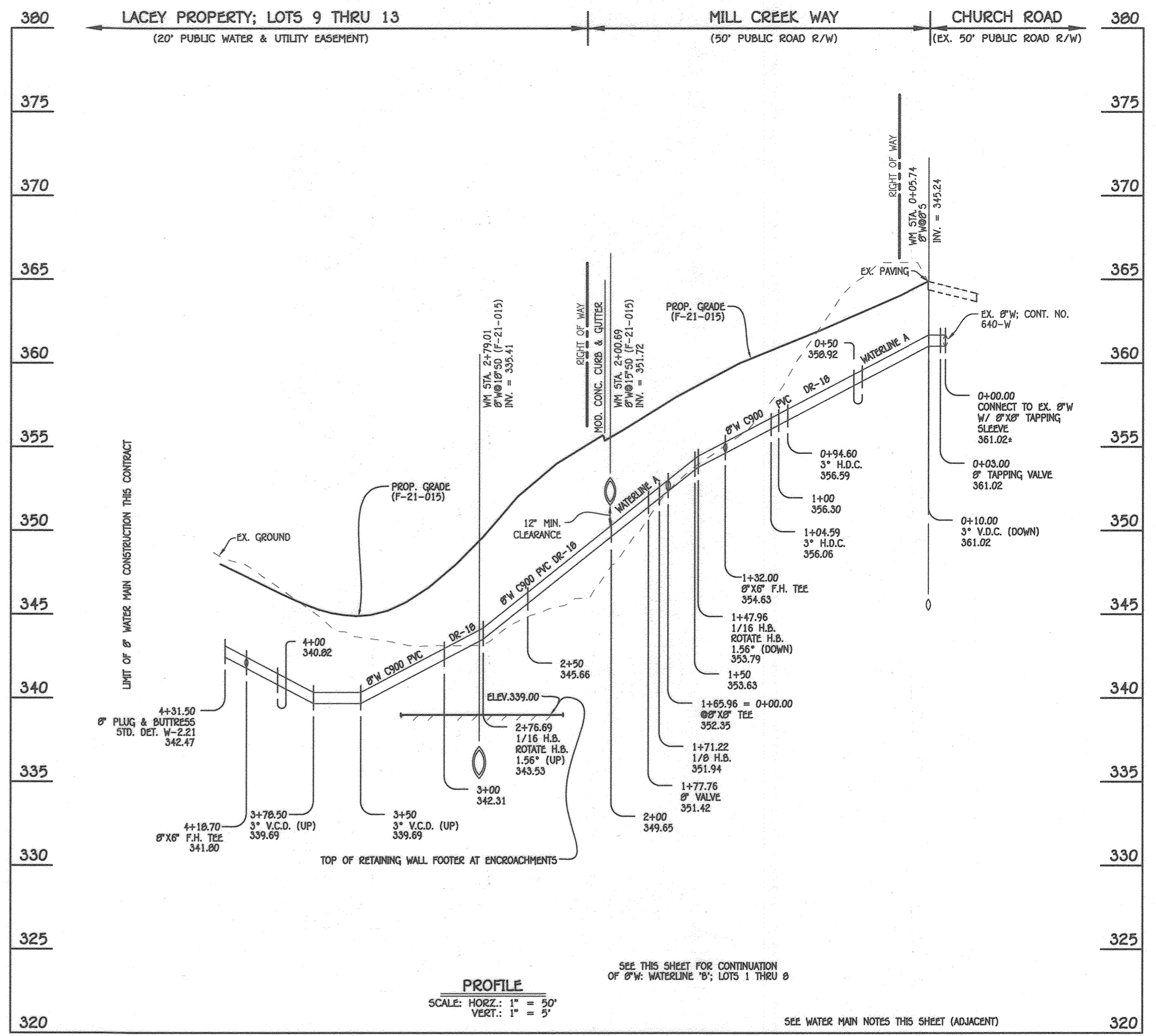


8" WATER MAIN (WATERLINE B): LOTS 1 THRU 8

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN (WATERLINE B): LOTS 1 THRU 8			
0+00.00 = 1+65.96	8" X6" TEE	505652.49	1369041.75
0+03.00	8" VALVE	505652.70	1369036.76
0+11.82	1/32 H.B.	505653.30	1369029.96
0+67.80	1/8 H.B. (ROTATE 4.67" UP)	505644.30	1368974.70
1+32.00	8" X6" F.H. TEE	505664.78	1369050.00
1+98.25	1/8 H.B.	505711.65	1368862.98
2+31.34	1/8 H.B. (ROTATE 4.67" DOWN)	505703.15	1368831.00
2+95.34	1/8 H.B.	505647.24	1368799.84
3+30.64	1/16 H.B.	505613.46	1368810.05
3+40.64	1/32 H.B. (ROTATE 3.30" DOWN)	505605.90	1368816.61
3+49.91	3" H.D.C.	505600.22	1368823.94
3+73.00	8" X6" F.H. TEE	505587.11	1368842.81
3+83.00	8" PLUG & BUTTRESS	505581.38	1368850.99

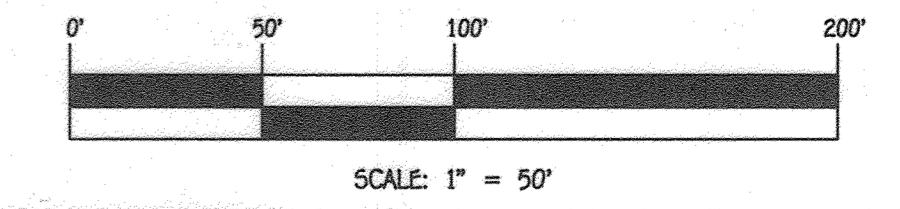
- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, DR-18.
 2. ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 3. DEFLECTION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

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	3728 MILL CREEK WAY		
2	3724 MILL CREEK WAY		
3	3720 MILL CREEK WAY		
4	3716 MILL CREEK WAY		
5	3712 MILL CREEK WAY		
6	3708 MILL CREEK WAY		
7	3704 MILL CREEK WAY		
8	3700 MILL CREEK WAY		
9	3701 MILL CREEK WAY		
10	3705 MILL CREEK WAY		
11	3709 MILL CREEK WAY		
12	3713 MILL CREEK WAY		
13	3717 MILL CREEK WAY		



8" WATER MAIN (WATERLINE A): LOTS 9 THRU 13

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN (WATERLINE A): LOTS 9 THRU 13			
0+00.00	8" X6" TAPPING SLEEVE	505797.94	1369117.70
0+03.00	8" TAPPING VALVE	505795.41	1369116.09
0+10.00	3" V.D.C.	505789.50	1369112.34
0+94.60	3" H.D.C.	505718.10	1369066.95
1+04.59	3" H.D.C.	505709.39	1369062.07
1+32.00	8" X6" F.H. TEE	505684.78	1369050.00
1+47.96	1/16 H.B.	505670.45	1369042.98
1+65.96 = 0+00.00	8" X6" TEE	505652.49	1369041.75
1+71.22	1/8 H.B.	505647.24	1369041.39
1+77.76	8" VALVE	505642.15	1369045.50
2+76.69	1/16 H.B.	505565.15	1369107.61
3+50.00	3" V.D.C.	505526.87	1369169.69
3+78.50	3" V.D.C.	505512.31	1369194.63
4+18.70	8" X6" F.H. TEE	505491.40	1369229.06
4+31.50	8" PLUG & BUTTRESS	505484.75	1369239.92

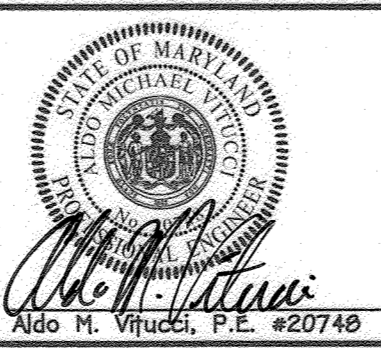


CONTRACT NO. 14-4913-D
LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature]
CHIEF, BUREAU OF UTILITIES

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

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. 20748 EXPIRATION DATE IS 2/22/25.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTONAL SQUARE OFFICE PARK - 10672 BALTIMORE NATIONAL PIKE
ELKLOTT CITY, MARYLAND 21042
(410) 461-2999

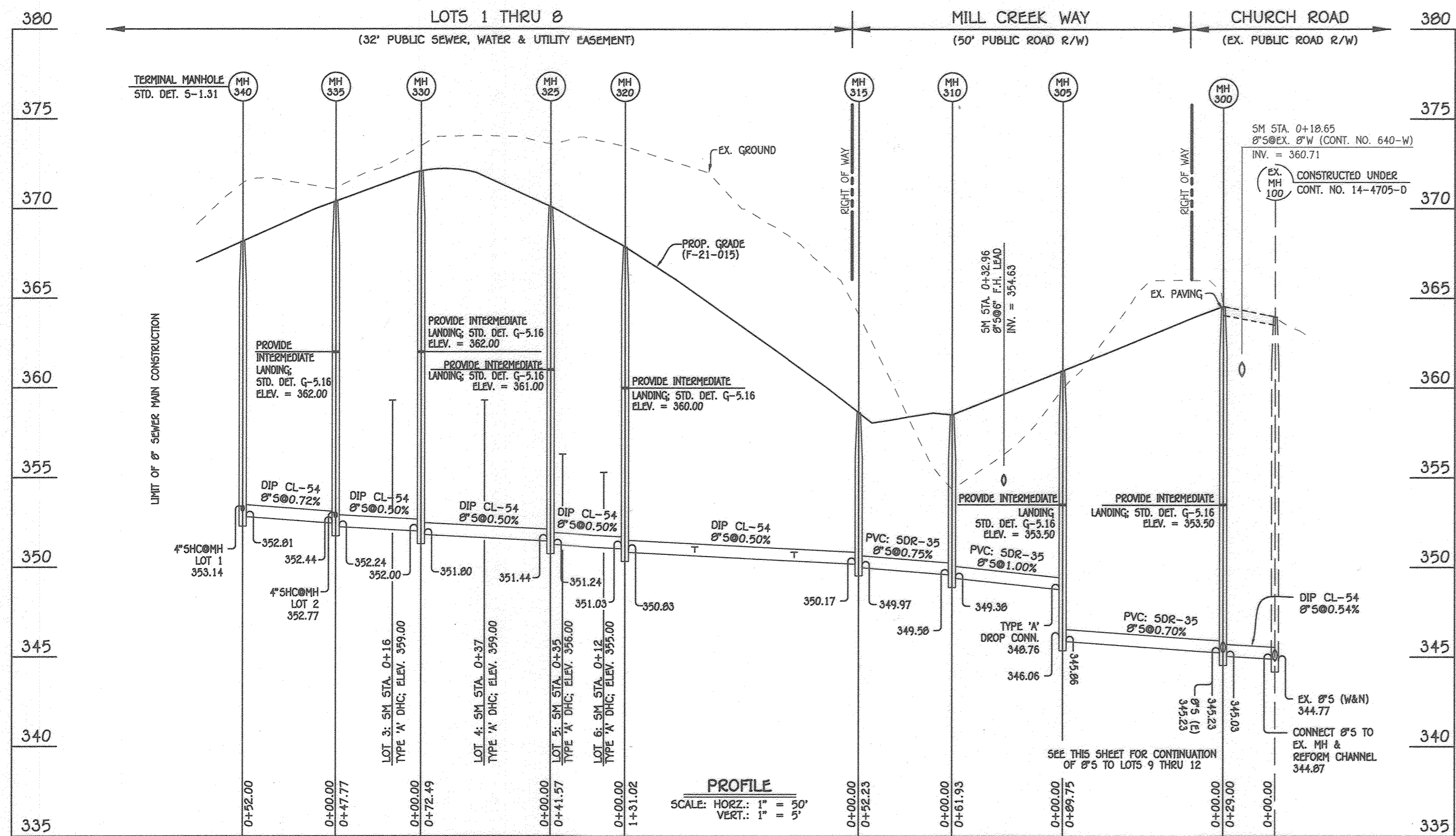


DESIGNED BY: J.C.L.
DRAWN BY: J.C.L.
CHECKED BY: A.M.V.
DATE: AUGUST, 2023

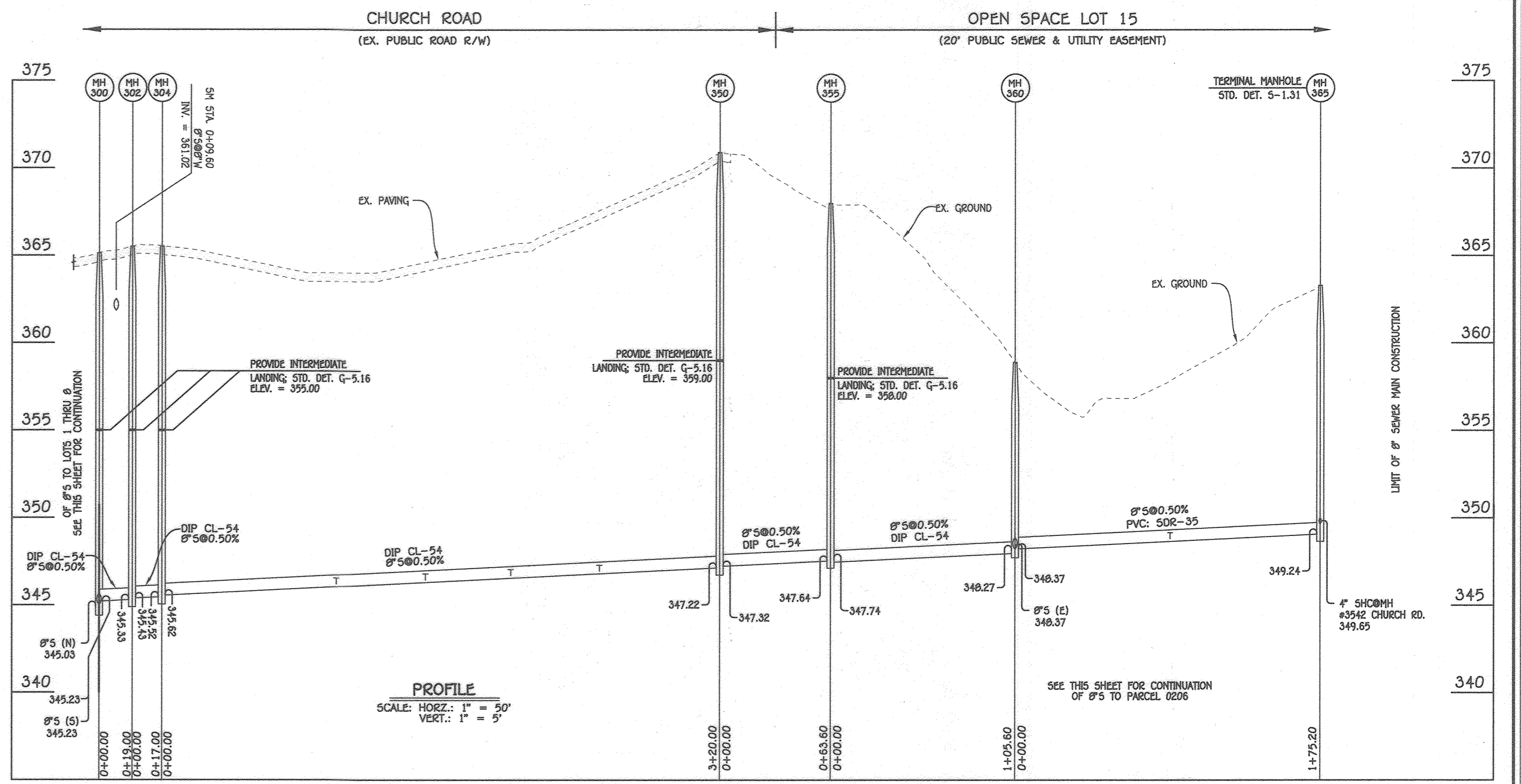
WATER MAIN EXTENSIONS
PROFILES, CHARTS, NOTES & TABLE
600' SCALE MAP NO. 25 BLOCK NO. 1
F.C.C. WORK ORDER NO. 08035
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-4913-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 5



8" SEWER MAIN: LOTS 1 THRU 8



8" SEWER MAIN: LOTS 9 THRU 13

NO.	NORTHING	EASTING	RIM ELEVATION
300	505794.22	1369104.80	364.68
305	505718.78	1369055.53	360.96
310	505663.17	1369028.28	358.50
315	505654.76	1368976.72	358.63
320	505722.40	1368864.51	367.87
325	505711.72	1368824.34	370.10
330	505648.41	1368799.04	372.10
335	505602.69	1368802.86	370.40
340	505573.20	1368845.30	368.70

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EDGE OF ESMT.	M.C.E.	B.E.	F.F.
MH 315 TO MH 320						
0+36 RT.	8	350.68	350.92	355.56	358.50	368.50
0+92 RT.	7	350.96	351.20	355.76	361.50	371.50
MH 320 TO MH 325						
0+12 RT.	6	355.00 (DHC)	355.26	360.14	362.20	372.20
0+35 RT.	5	356.00 (DHC)	356.20	361.58	362.70	372.70
MH 325 TO MH 330						
0+37 RT.	4	359.00 (DHC)	359.20	363.88	366.50	376.50
MH 330 TO MH 335						
0+16 RT.	3	359.00 (DHC)	359.40	364.20	366.50	376.50
MH 335 TO MH 340						
0+35 RT.	2	352.77	352.93	357.27	362.40	372.40
0+34 RT.	1	353.14	353.30	357.64	361.40	371.40

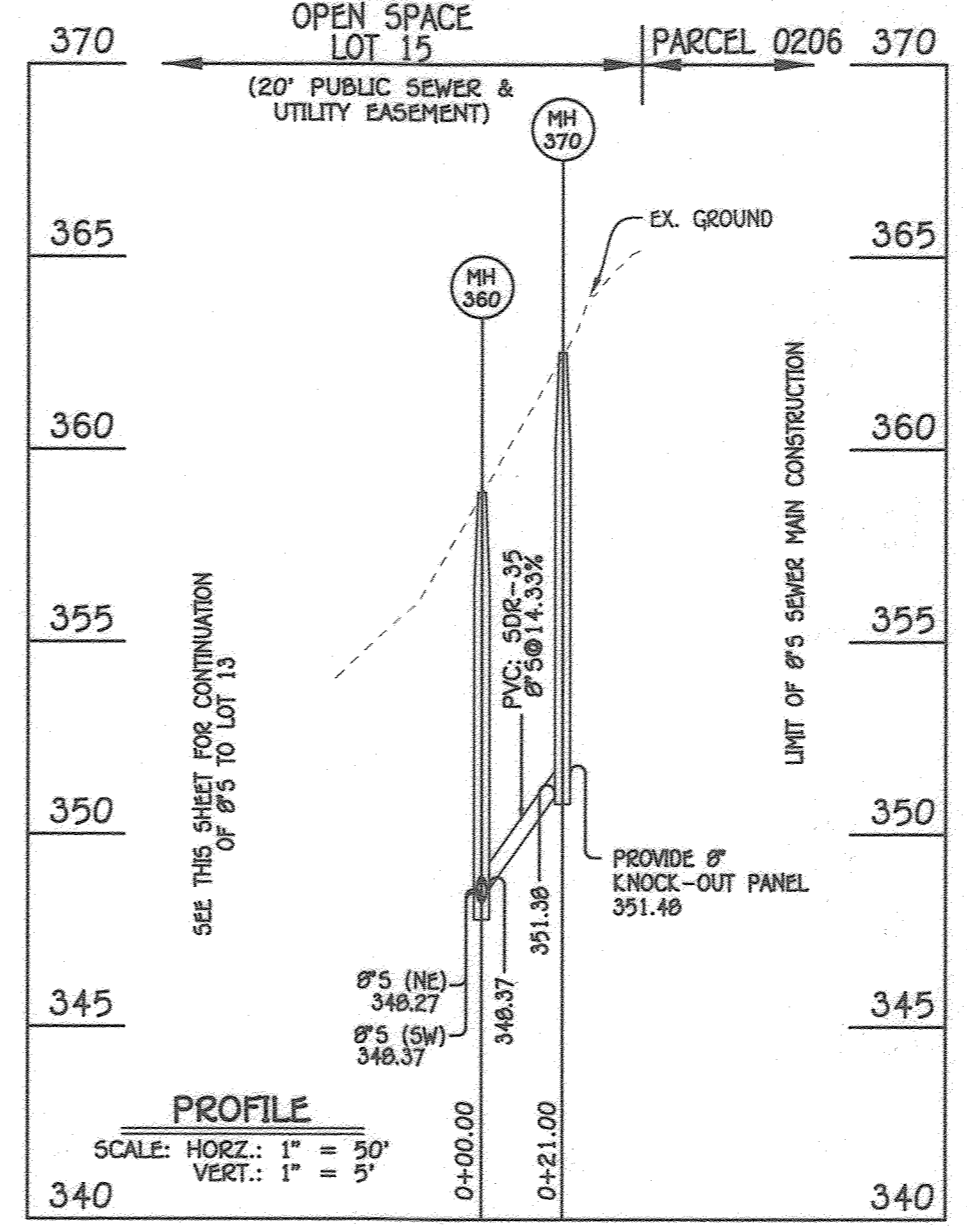
NO.	NORTHING	EASTING	RIM ELEVATION
302	505784.23	1369120.78	365.60
304	505777.74	1369136.91	365.69
350	505996.06	1369400.54	370.91
355	505932.45	1369400.25	368.00
360	505456.88	1369326.54	358.90
365	505331.43	1369204.19	363.30
370	505442.43	1369341.36	362.45

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

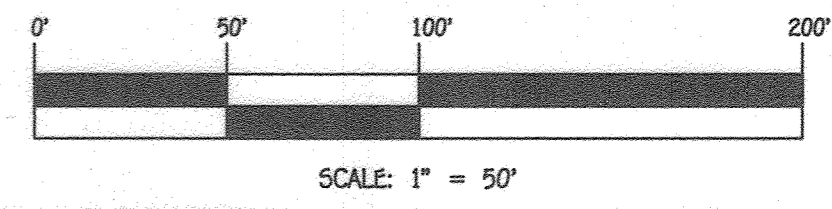
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT EDGE OF ESMT.	M.C.E.	B.E.	F.F.
MH 304 TO MH 350						
1+00 RT.	9	346.45	347.10	350.66	354.55	364.55
1+51 RT.	10	346.70	347.35	350.79	351.00	361.00
2+00 RT.	11	346.95	347.60	350.99	351.00	361.00
2+51 RT.	12	347.20	347.85	351.38	351.50	361.50
MH 360 TO MH 365						
0+89 RT.	13	349.14	349.51	352.66 *	342.70	352.70
0+35 RT.	14	349.65	350.11	-	-	-

* MINIMUM SEWER SERVICE ELEVATION: FIRST FLOOR GRAVITY SEWER SERVICE ONLY.

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	3728 MILL CREEK WAY		
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8" SEWER MAIN: PARCEL 0206



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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. 20746 EXPIRATION DATE IS 2/22/25.



DESIGNED BY: J.C.L.
DRAWN BY: J.C.L.
CHECKED BY: A.M.V.
DATE: AUGUST, 2023

SEWER MAIN EXTENSIONS
PROFILES, CHARTS & TABLE

LACEY PROPERTY
LOTS 1 THRU 13 &
OPEN SPACE LOTS 14 THRU 17
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 14-4913-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 5