

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT TYPE	MANUFACTURER SUPPLIER
8" S. PVC; SDR-35	316 L.F.		SDR-35	N. AMERICAN PIPE
8" S. PVC; DR-14	336 L.F.		C-300 DR-14	N. AMERICAN PIPE
4" S. PVC	396 L.F.		C-300 DR-18	N. AMERICAN PIPE
4" S. PVC	544 L.F.		SDR-35	N. AMERICAN PIPE
MANHOLE	5 EACH		CONCRETE 4' Ø	
CLEAN-OUTS	37 EACH		4" x 4"	HORNE CONCRETE
8" Ø PVC; DR-18	2,095 L.F.		C-300 DR-18	N. AMERICAN PIPE
8" Ø PVC; DR-18	60 L.F.		C-300 DR-18	N. AMERICAN PIPE
1-1/2" W.H.C.	10 L.F.		K-COPPER	MUELLER INDUSTRIES
8" TAPPING SLAVE	1 EACH		55# 663	SMITH BLADE
8" TAPPING VALVE	1 EACH		C-153	AMERICAN FLUID CONTROL
8" X 8" TEE	4 EACH		C-153 BTONY	TYLER/UNION
8" X 6" F.H. TEE	5 EACH		C-153 SWIVEL	TYLER/UNION
8" VALVE	10 EACH		GATE VALVE	AMERICAN FLUID CONTROL
6" VALVE	5 EACH		GATE VALVE	AMERICAN FLUID CONTROL
FIRE HYDRANT	5 EACH		B-CZB	AMERICAN FLUID CONTROL
CONTINUITY TEST STATION	5 EACH		CONCRETE	HORNE CONCRETE
SINGLE OUTSIDE METER SETTING	28 EACH		CUSTOM SETTERS	AY McDONALD
TWIN OUTSIDE METER SETTING	4 EACH		CUSTOM SETTERS	AY McDONALD
8" FLUG & BUTTRESS	3 EACH		C-153	TYLER/UNION
1/8" H.B.	2 EACH		C-153	TYLER/UNION
1/16" H.B.	2 EACH		C-153	TYLER/UNION
1/32" H.B.	2 EACH		C-153	TYLER/UNION
3" H.O.C.	2 EACH		PVC	CERTAINTED
2" H.O.C.	1 EACH		PVC	CERTAINTED

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

BENCHMARK INFORMATION
 B.M.#1 - HOWARD COUNTY CONTROL STATION #47H2 - HORIZONTAL - (NAD 83)
 (LOCATED ALONG ALL SAINTS ROAD, APPROX. 1/4 MILE EAST OF ROUTE 216;
 ROUGHLY 2.99' OFF THE EDGE OF PAVING)
 N 529,706.429
 E 1,335,445.341
 ELEVATION = 256.093 - VERTICAL - (NAVD 88)
 B.M.#2 - HOWARD COUNTY CONTROL STATION #47G2 - HORIZONTAL - (NAD 83)
 (LOCATED ALONG OLD SCAGSVILLE ROAD, BETWEEN POWER POLES, #375251 & #31000, APPROX.
 2.5' OFF EDGE OF PAVING, IN FRONT OF HOUSE #9160.
 N 529,044.964
 E 1,350,054.953
 ELEVATION = 335.756 - VERTICAL - (NAVD 88)

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
405	9131 RIVER HILL ROAD	MICHAEL MARCELLINO	YES	YES
429	9120 RIVER HILL ROAD	KENNETH ECKER	YES	YES
468	9141 RIVER HILL ROAD	BONNY A. MARCELLINO	YES	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.
 Paul W. Kriebel, for:
 LAND DESIGN & DEVELOPMENT, INC. 10/27/15
 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.
 Paul W. Kriebel, for:
 LAND DESIGN & DEVELOPMENT, INC. 10/27/15
 SIGNATURE OF ENGINEER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE ROAD CONSTRUCTION PLAN, F-15-053.
 Paul W. Kriebel, for:
 LAND DESIGN & DEVELOPMENT, INC. 10/27/15
 SIGNATURE OF DEVELOPER DATE
 F-15-053

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED
 John R. Robinson 11/9/15
 HOWARD SOIL CONSERVATION DISTRICT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 11/11/15

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 M.G. 11/24/15

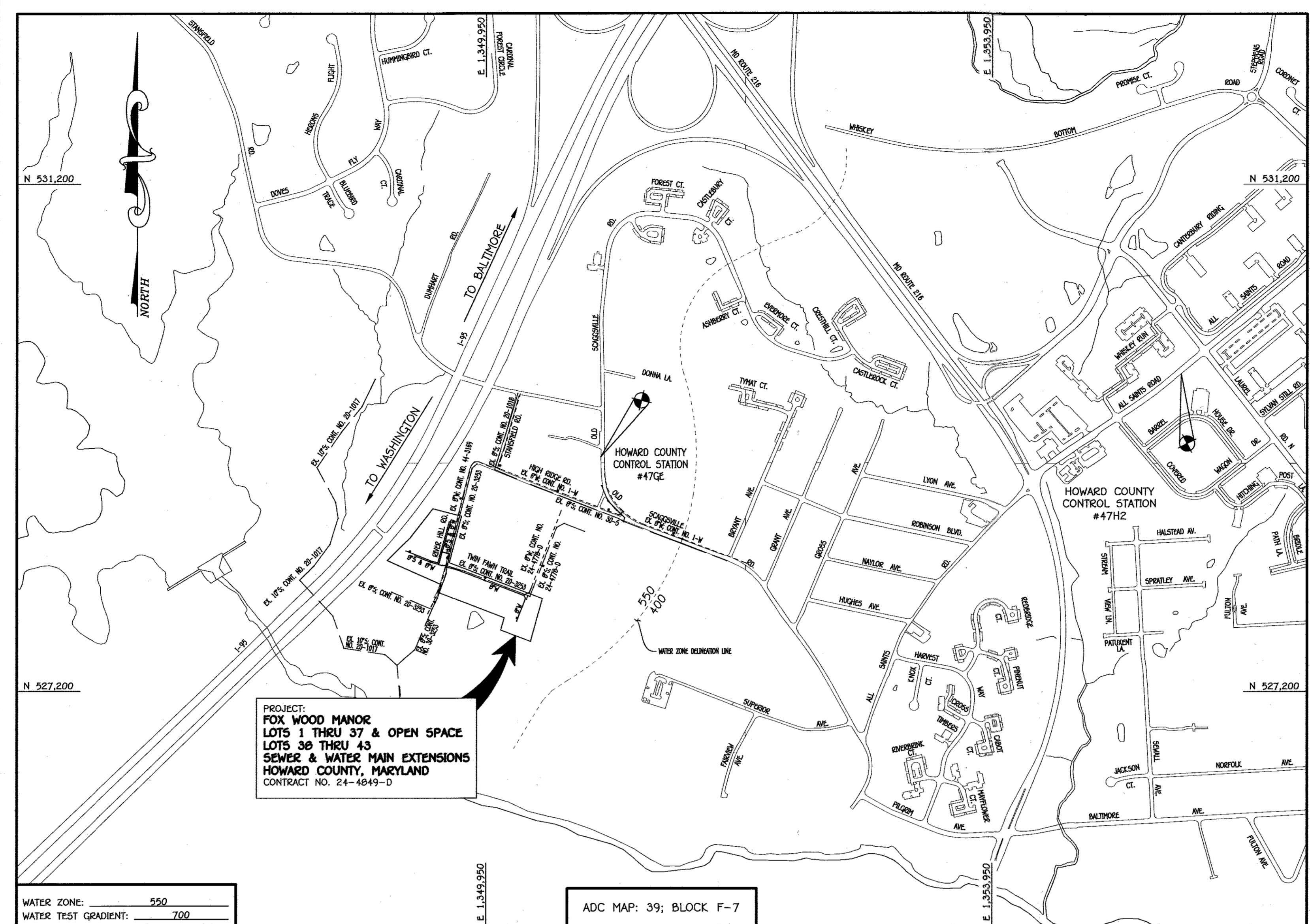
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 12543 EXPIRATION DATE IS 7/16/16.
 FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL Pkwy.
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2995
 Paul W. Kriebel

DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: 9/22/15
 BY NO. REVISION

600' SCALE MAP NO. 50 BLOCK NO. 1
 F.C.C. WORK ORDER NO. 12036-3001
 FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

SEWER & WATER MAIN EXTENSIONS
 TITLE SHEET

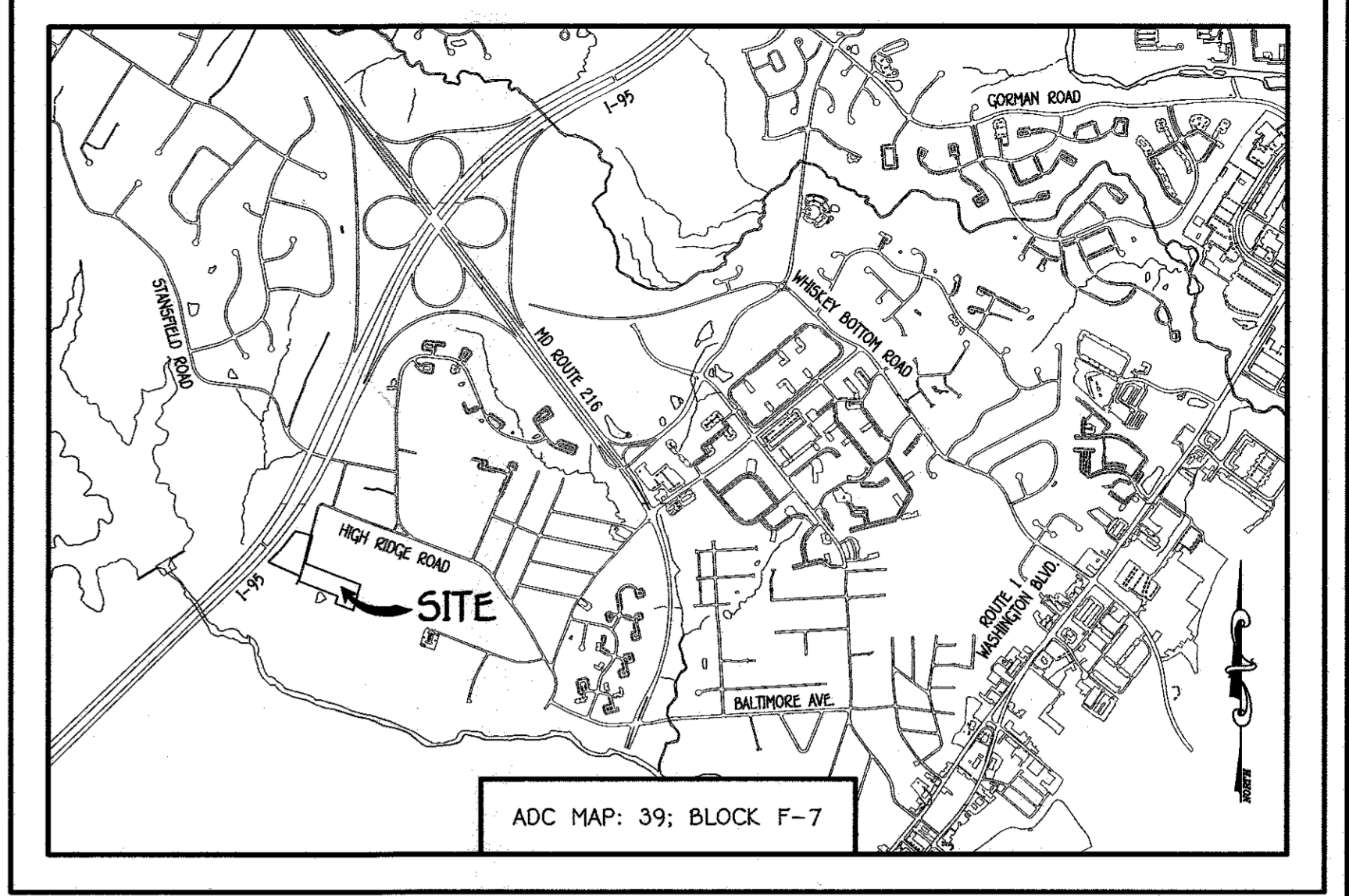
FOX WOOD MANOR
 LOTS 1 THRU 37 & OPEN SPACE
 LOTS 38 THRU 43
 SEWER & WATER MAIN EXTENSIONS
 CONTRACT NO. 24-4849-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 1 OF 6



LOCATION MAP
 SCALE: 1" = 600'

TYPE OF BUILDING: RESIDENTIAL SINGLE FAMILY DETACHED / TOWNHOUSE UNITS	
NUMBER OF LOTS:	43 (37 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	36
NO. OF SEWER HOUSE CONNECTIONS:	37
SEWER SHED:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, MARYLAND

PLAN REFERENCE NUMBERS:
 F-15-053 (RECORD PLAN)



VICINITY MAP
 SCALE: 1" = 2000'

GENERAL NOTES

PART A

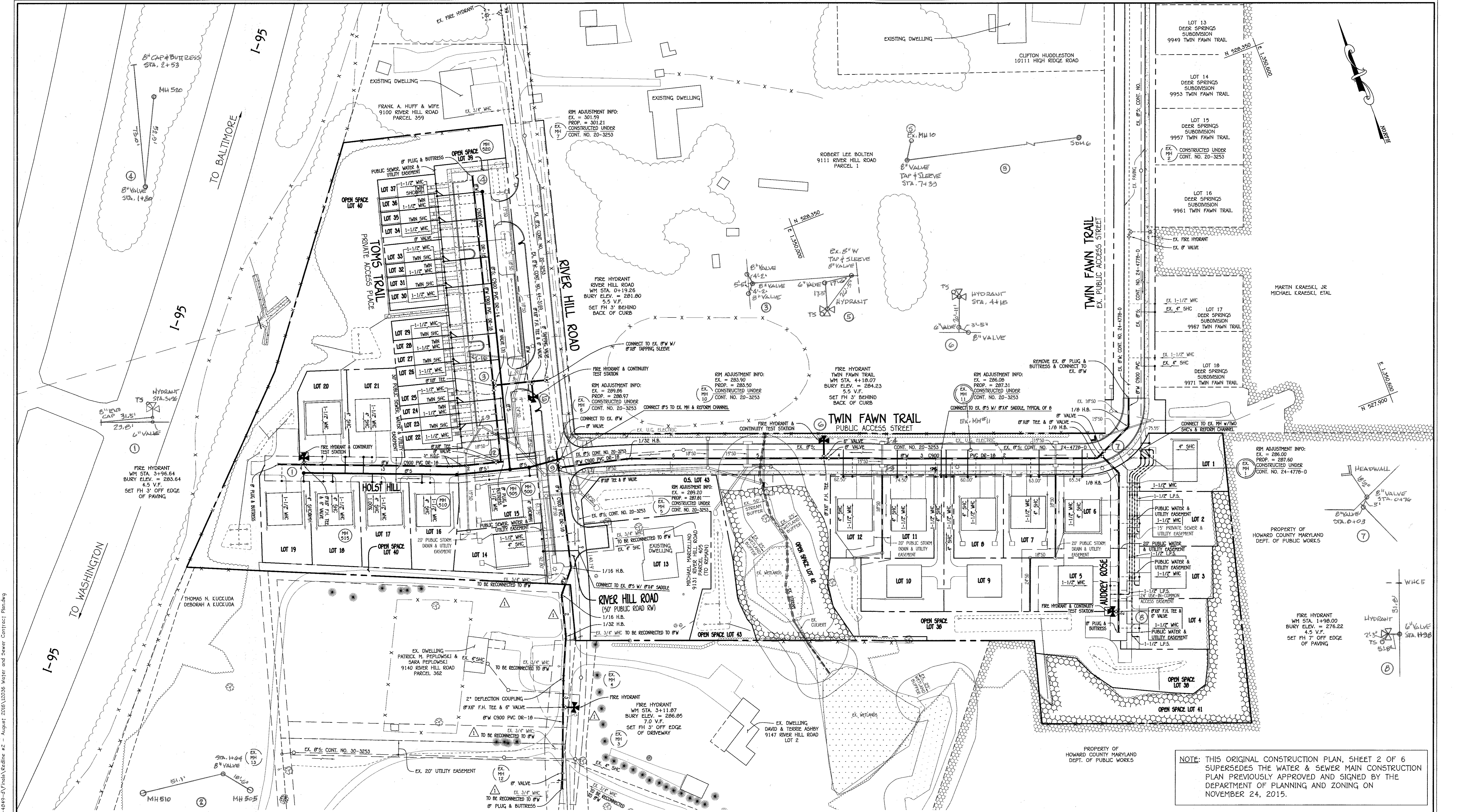
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT JANUARY, 2013 BY FISHER, COLLINS & CARTER, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS
 THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM MAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 47H2 & NO. 47G2.
 ALL VERTICAL CONTROLS ARE BASED ON NAVD '83 VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON 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 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 (S) AT THE LOCATIONS OF THE TEST FITS. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST FIT OR FITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST FITS HAVE NOT BEEN DUG 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
 BCE (CONTRACTOR SERVICES) 410-837-8713
 BCE (EMERGENCY) 410-685-0123
 BUREAU OF UTILITIES 410-313-4900
 COLONIAL PIPELINE CO. 410-799-1390
 MISS UTILITY 1-800-257-7777
 STATE HIGHWAY ADMINISTRATION 410-531-9533
 VERIZON 1-800-745-0033 / 410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION AREA 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, (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(i) OF THE HOWARD COUNTY CODE.

PART B: WATER MAIN GENERAL NOTES

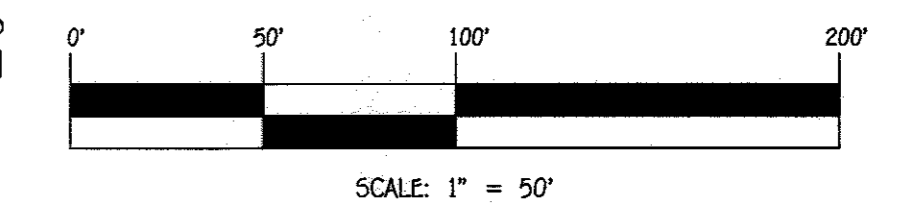
- ALL WATER MAINS SHALL BE AMMA C900 PVC, DR-18.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL STAMPED TO TEST.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE 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 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER 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, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AMMA 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 TESTS 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 BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSPECTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTHS 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(HD) 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 (1-3-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 220 PSI MEETING THE REQUIREMENTS OF AMMA 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.
- FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AMMA C900 AND SHALL BE MULTI FITTINGS (IPEX) 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 AMMA C900 PVC PIPELINES, THE CONTRACTOR SHALL INSERT DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLUGS 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 RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 2000 AS MANUFACTURED BY EMMA 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-3.28 OR W-3.32.

PART C: SEWER MAIN GENERAL NOTES

- ALL SEWER MAINS SHALL BE D.I.P. OR PVC, 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERIGHT FRAME AND COVER, STANDARD DETAIL C5.92. WHERE WATERIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.



PLAN
SCALE: 1" = 50'



NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 2 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON NOVEMBER 24, 2015.

NOTE: SEE SHEET 3 FOR EXISTING CONDITIONS & EX. SHC / WHC ABANDONMENT PLAN

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

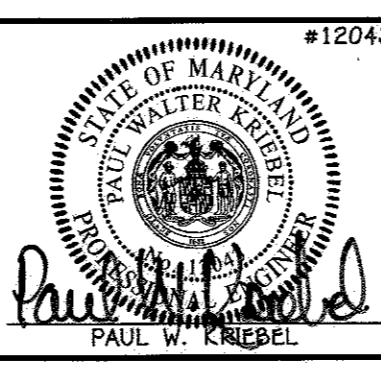
Sally C. Coon
10/16/16
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chad E. Fisher
10.28.16
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. 12043 EXPIRATION DATE IS 7/16/18.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
BLOTT CITY, MARYLAND 21042
(410) 461-2895



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	8/17/16
BY:	FCC
NO.:	ADD ADDITIONAL 8" WATER MAIN IN RIVER HILL ROAD
REVISION:	
DATE:	8/17/16
FILE NAME:	SEWER & WATER MAIN EXTENSION PLAN

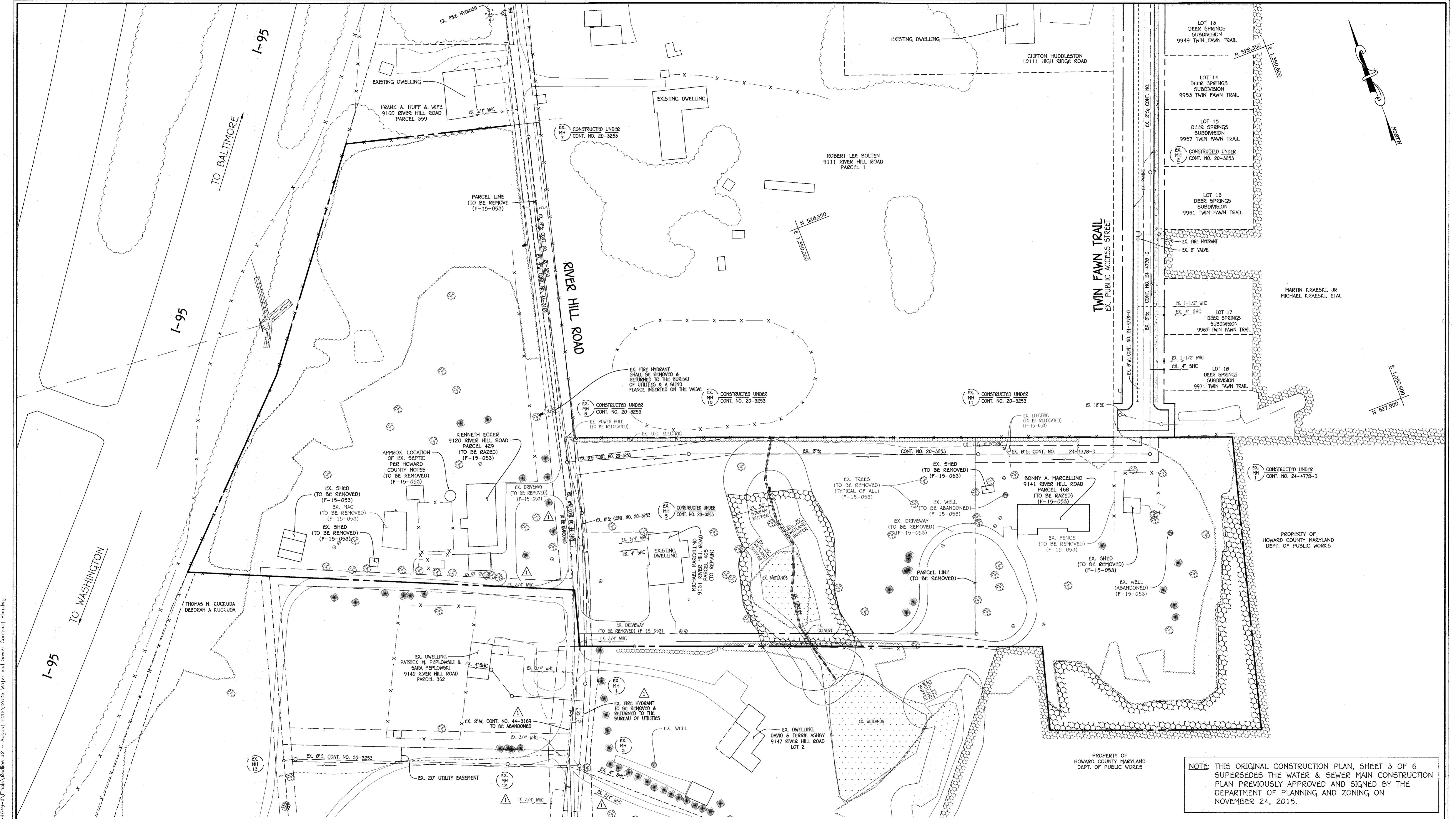
WATER & SEWER MAIN EXTENSIONS PLAN

600' SCALE MAP NO. 50 BLOCK NO. 1
F.C.C. WORK ORDER NO. 12036-3001

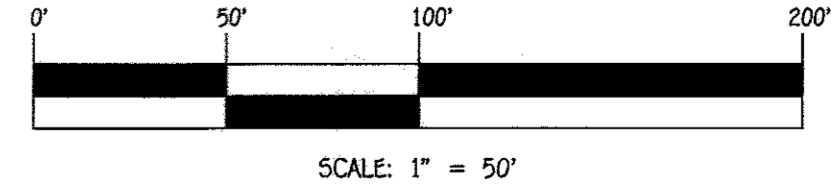
FOX WOOD MANOR
LOTS 1 THRU 37 & OPEN SPACE
LOTS 38 THRU 43
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 24-4049-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 6

I:\2012\12036\dwg\Water & Sewer\Contract No. 24-4049-D\Final\Kline.dwg August 2016\12036 Water and Sewer Contract Plan.dwg



NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 3 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON NOVEMBER 24, 2015.

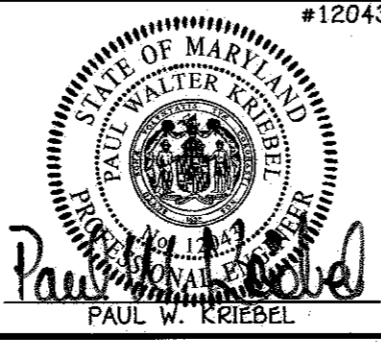


PLAN
SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Steve C. Combs
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Chad Chubb
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 10-28-16

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. 12243 EXPIRATION DATE 5/7/16/18.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10232 BALDWIN NATIONAL PIKE
ELIJAH CITY, MARYLAND 21046
(410) 461-2895



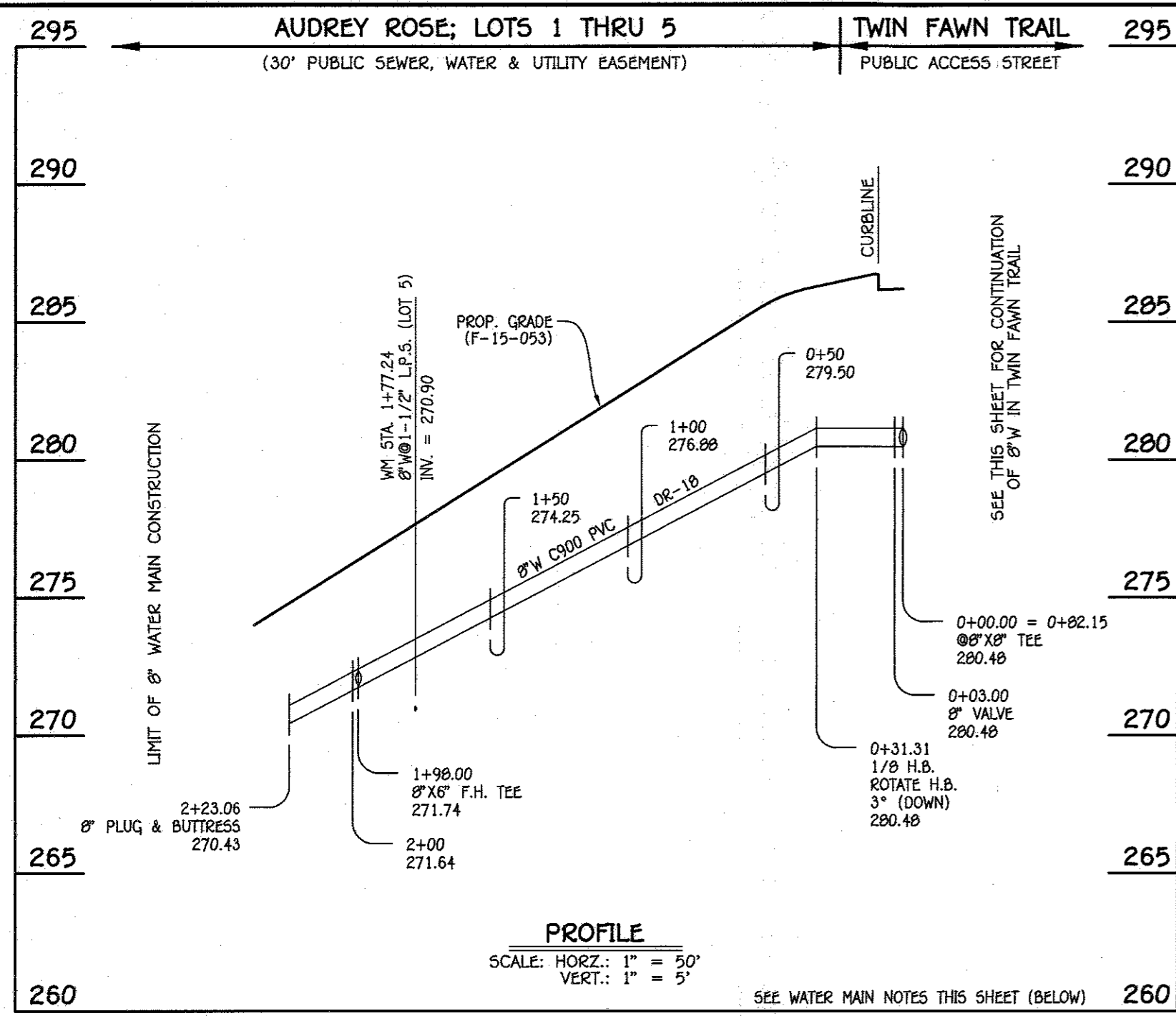
DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	SEPTEMBER, 2016
BY:	NO.
REVISION:	DATE

EXISTING CONDITIONS & EX. SHC / WHC ABANDONMENT PLAN
600' SCALE MAP NO. 50 BLOCK NO. 1
F.C.C. WORK ORDER NO. 12036-3001
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

FOX WOOD MANOR
LOTS 1 THRU 37 & OPEN SPACE
LOTS 38 THRU 43
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 24-4849-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

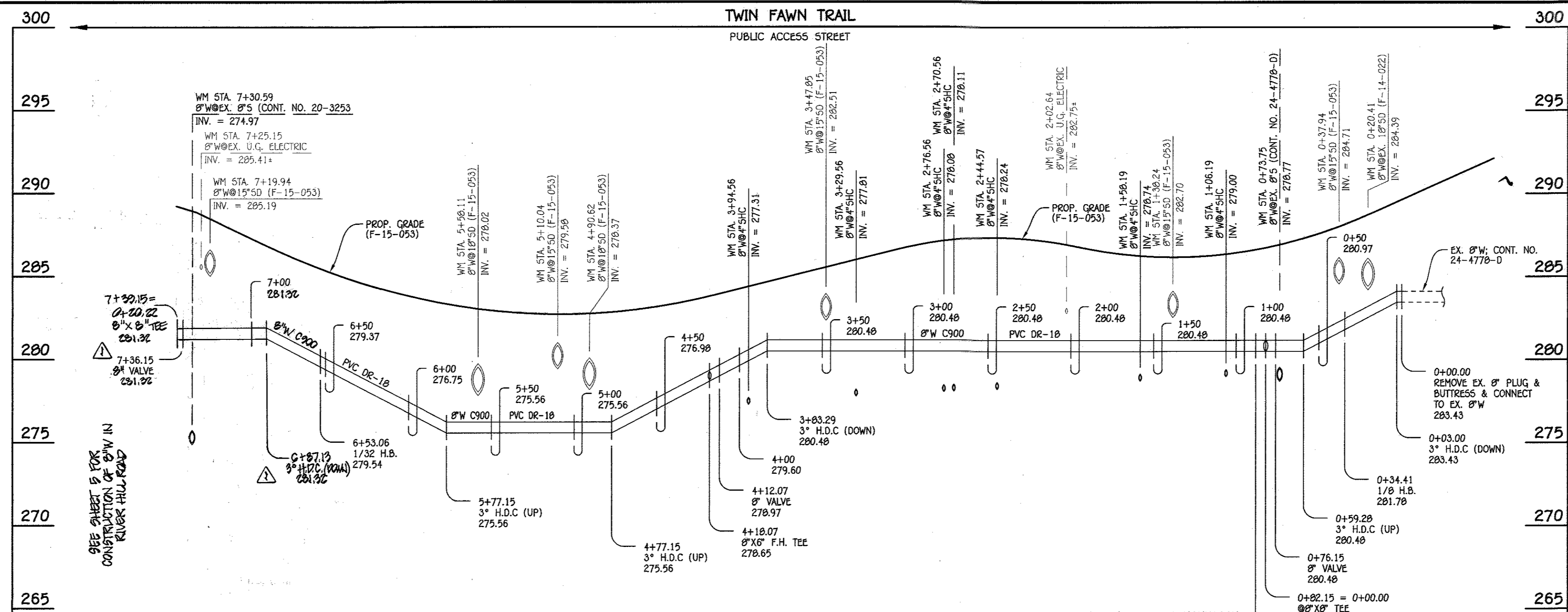
SCALE AS SHOWN
SHEET 3 OF 6

I:\2012\12036\DWG\Water & Sewer\Contract No. 24-4849-D\Final\Kribel.dwg August 2016\12036 Water and Sewer Contract Plan.dwg



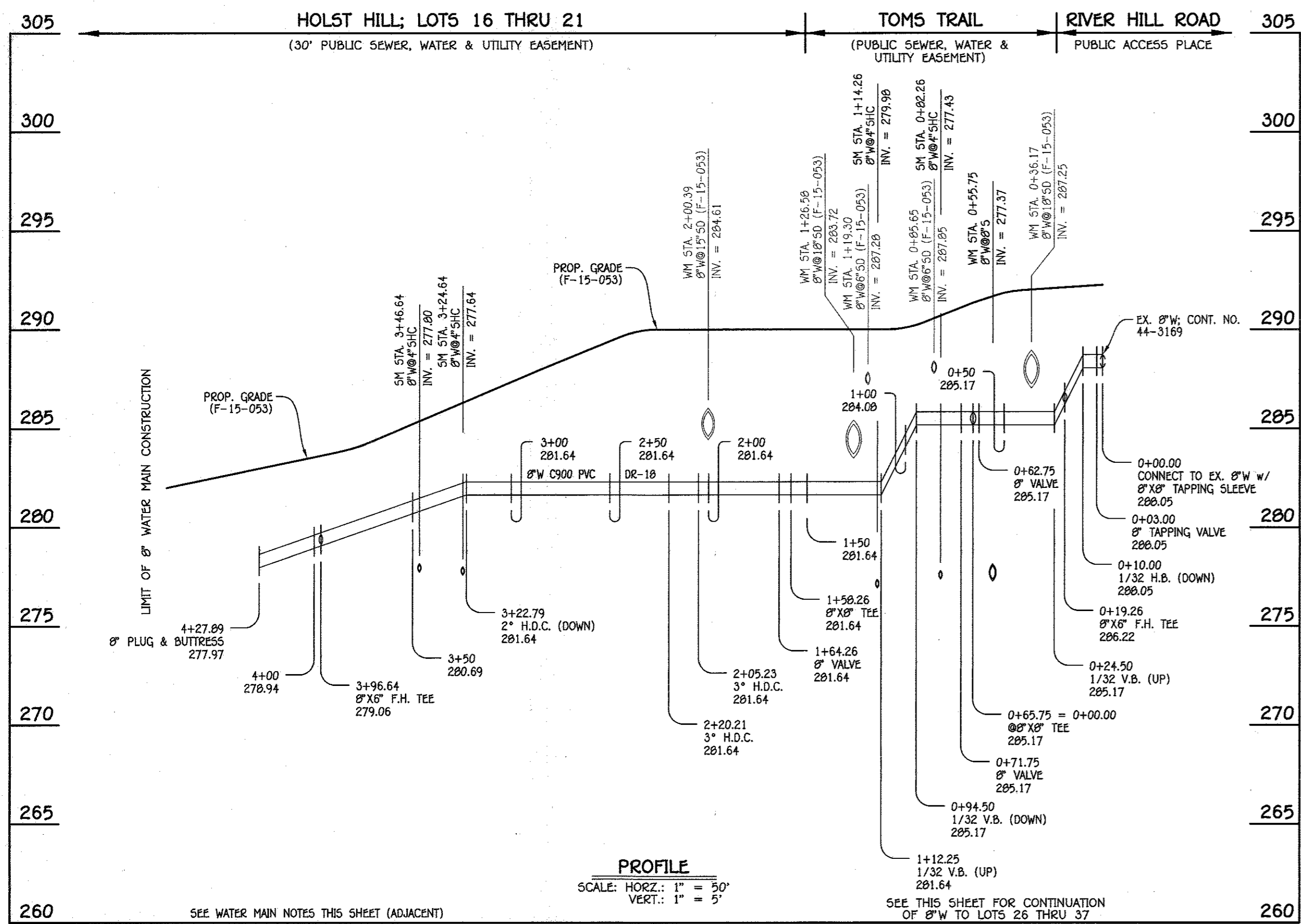
8" WATER MAIN: AUDREY ROSE; LOTS 1 THRU 5

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: AUDREY ROSE; LOTS 1 THRU 5			
0+00.00 = 0+02.15	8" X 8" TEE	527958.91	1350248.41
0+03.00	8" VALVE	527956.17	1350249.63
0+31.31	1/8 H.B.	527930.27	1350261.09
1+98.00	8" X 6" F.H. TEE	527774.94	1350200.62
2+23.06	8" PLUG & BUTTRESS	527751.59	1350191.53



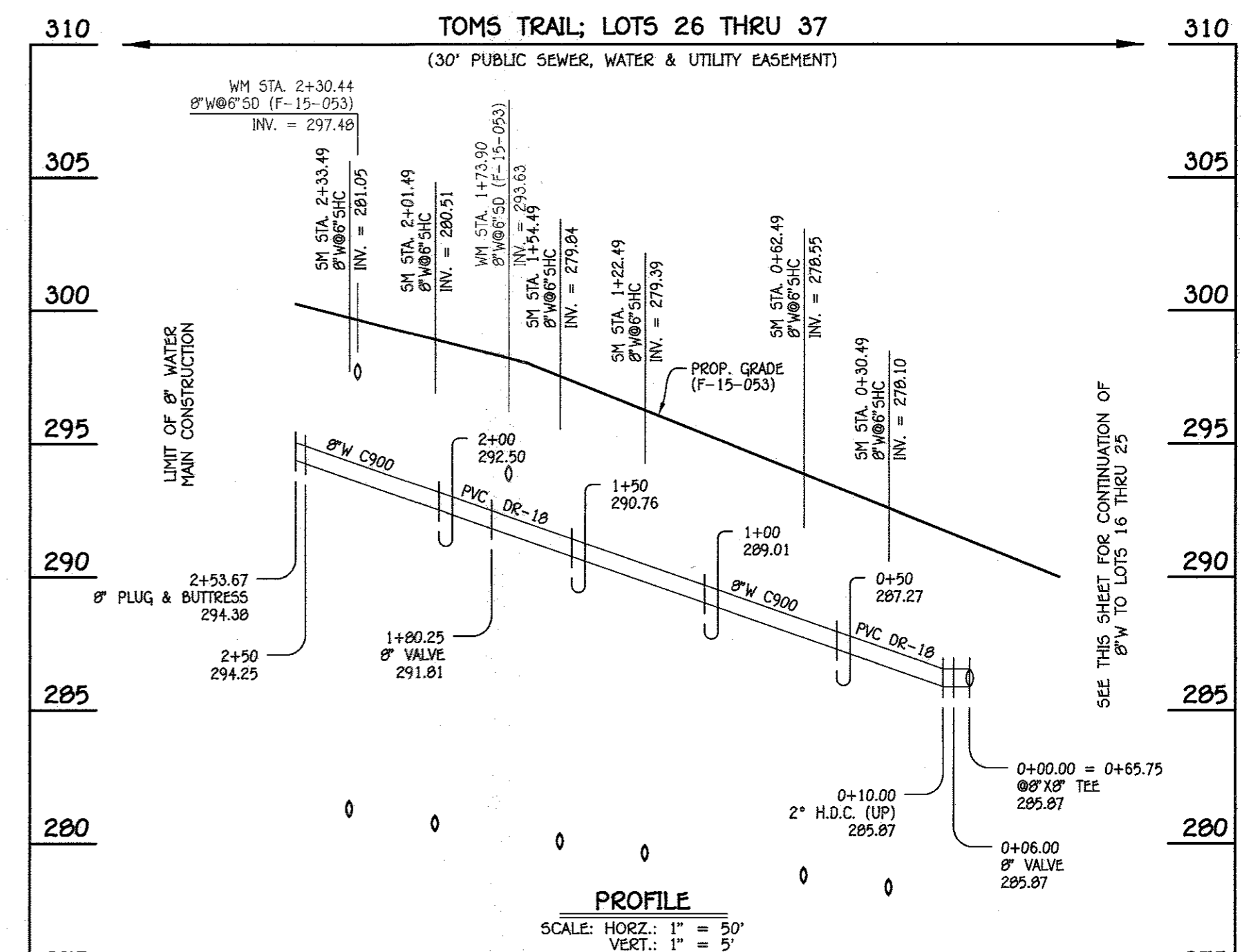
8" WATER MAIN: TWIN FAWN TRAIL

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: TWIN FAWN TRAIL			
0+00.00	EX. 8" PLUG & BUTTRESS	528010.33	1350304.49
0+34.41	1/8 H.B.	527978.23	1350292.07
0+76.15	8" VALVE	527961.34	1350253.90
0+02.15 = 0+00.00	8" X 8" TEE	527958.91	1350248.41
0+00.15	1/8 H.B.	527956.48	1350242.93
4+12.07	8" VALVE	528073.22	1349940.78
4+18.07	8" X 6" F.H. TEE	528075.39	1349935.18
6+53.06	1/32 H.B.	528160.08	1349715.99
7+36.15	8" TAPPING VALVE	528180.11	1349635.35
7+39.15	8" X 8" TAPPING SLEEVE	528180.83	1349632.44



8" WATER MAIN: LOTS 15 THRU 25

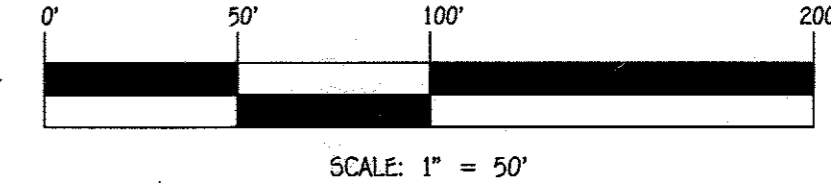
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: LOTS 15 THRU 25			
0+00.00	8" X 8" TAPPING SLEEVE	528284.27	1349658.13
0+03.00	8" TAPPING VALVE	528285.07	1349655.24
0+19.26	8" X 6" F.H. TEE	528289.39	1349639.57
0+62.75	8" VALVE	528300.96	1349597.64
0+65.75 = 0+00.00	8" X 8" TEE	528301.76	1349594.75
0+71.75	8" VALVE	528295.98	1349593.15
1+58.26	8" X 8" TEE	528212.59	1349570.14
1+64.26	8" VALVE	528214.18	1349564.35
2+05.23	3" H.D.C.	528225.08	1349524.86
2+20.21	3" H.D.C.	528229.93	1349510.69
3+96.64	8" X 6" F.H. TEE	528295.74	1349347.00
4+27.89	8" PLUG & BUTTRESS	528307.40	1349318.00



8" WATER MAIN: TOMS TRAIL; LOTS 26 THRU 37

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: TOMS TRAIL; LOTS 26 THRU 37			
0+00.00 = 0+65.75	8" X 8" TEE	528301.76	1349594.75
0+06.00	8" VALVE	528307.55	1349596.35
1+00.25	8" VALVE	528475.52	1349642.71
2+53.67	8" PLUG & BUTTRESS	528546.29	1349662.24

- 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-TIED HIGH DEFLECTION COUPLINGS.
 - ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



CONTRACT NO. 24-4849-D
FOX WOOD MANOR
LOTS 1 THRU 37 &
OPEN SPACE LOTS 38 THRU 43
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

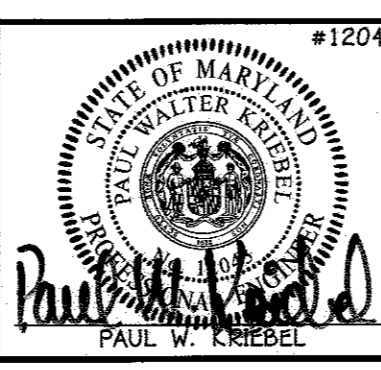
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE 5/16/18.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PARK
ELLIOTT CITY, MARYLAND 21042
(410) 461-2995



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: OCTOBER, 2015

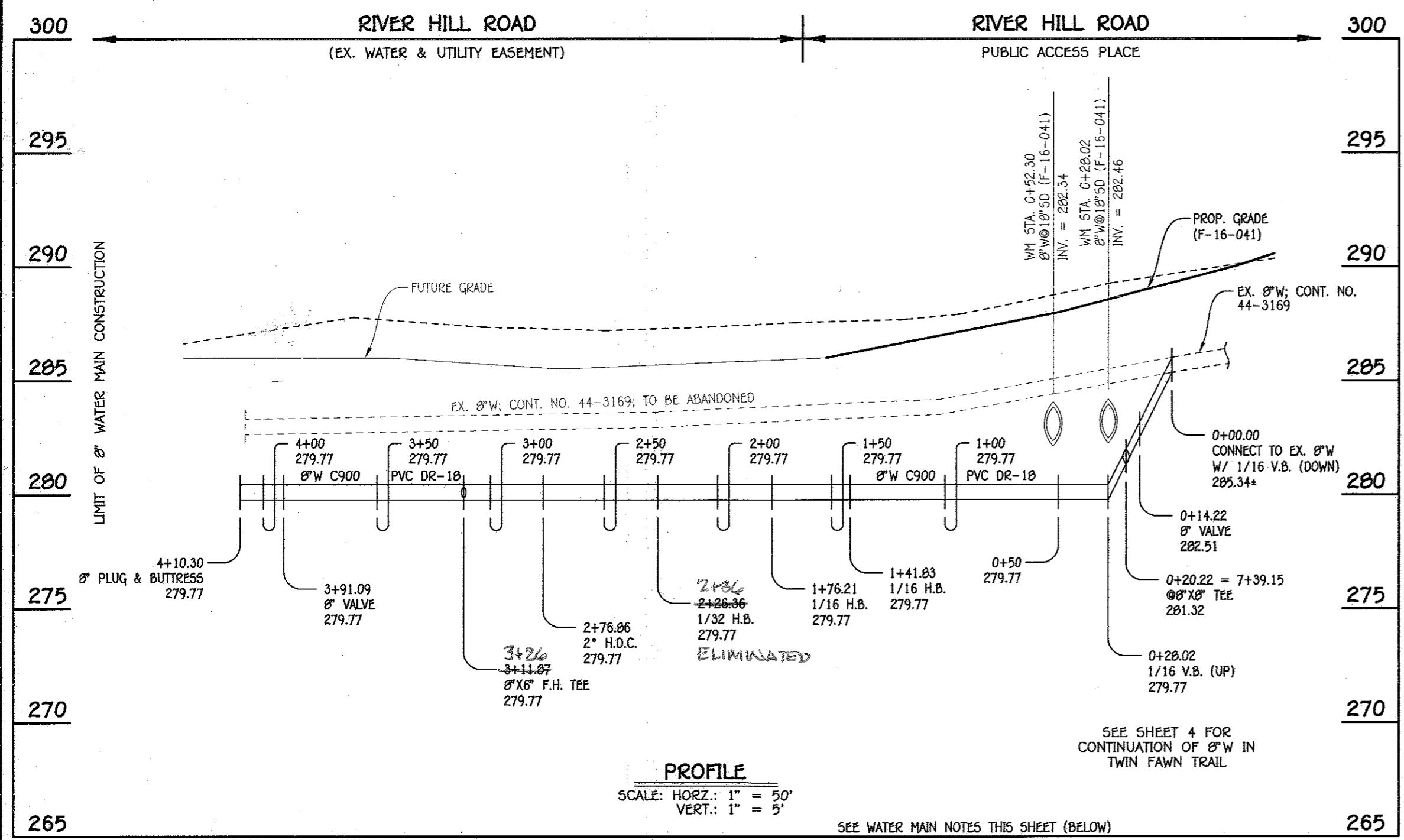
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

**WATER MAIN EXTENSIONS
PROFILES, NOTES & CHARTS**

600' SCALE MAP NO. 50 BLOCK NO. 1
F.C.C. WORK ORDER NO. 12036-3001

**FOX WOOD MANOR
LOTS 1 THRU 37 & OPEN SPACE
LOTS 38 THRU 43
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 24-4849-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND**

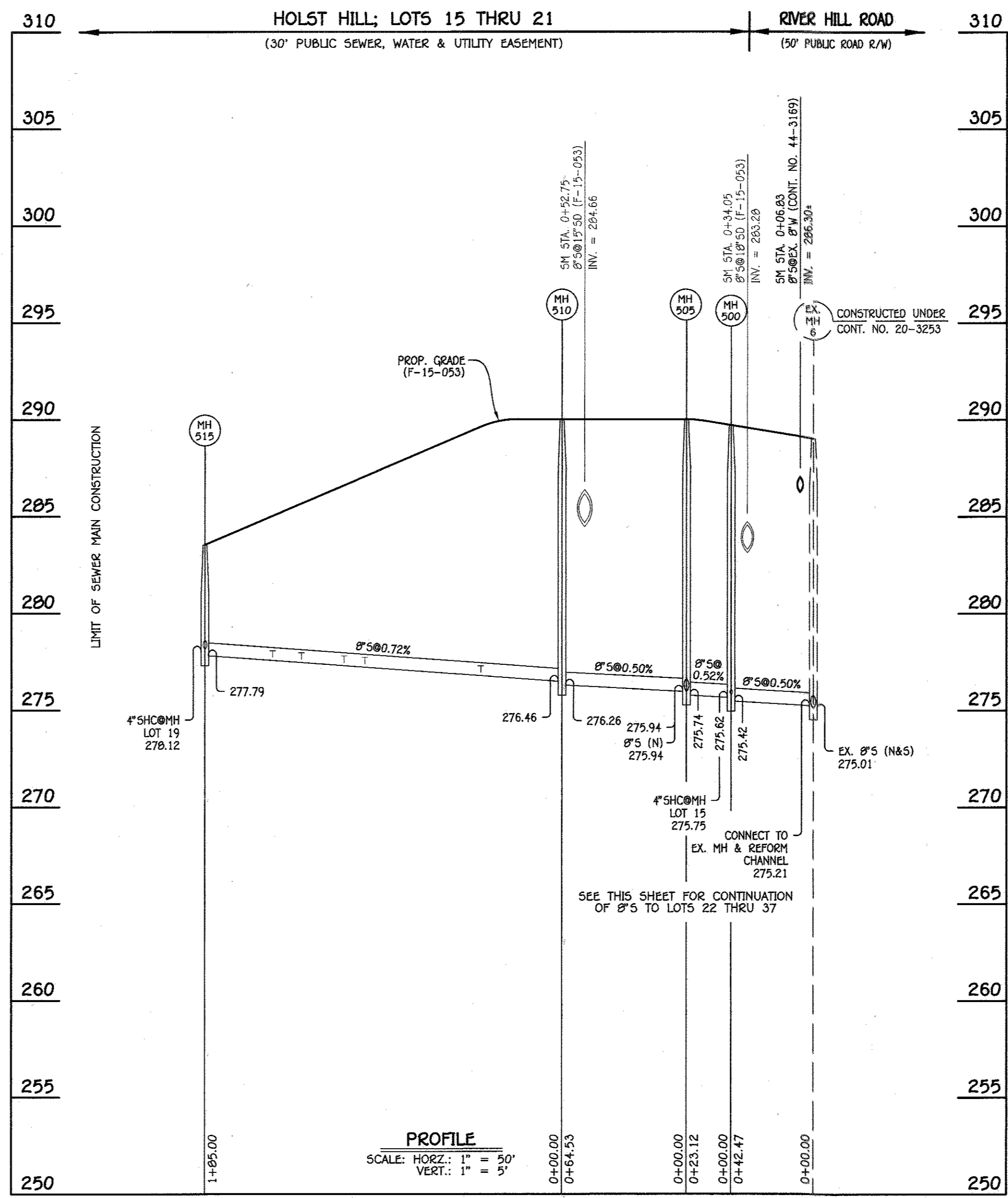
SCALE AS SHOWN
SHEET 4 OF 6



8" WATER MAIN; RIVER HILL ROAD

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: RIVER HILL ROAD			
0+00.00	CONNECT TO EX. 8" W	528200.46	1349637.31
0+14.22	8" VALVE	528186.66	1349633.08
0+20.22 = 7+39.15	8" X 8" TEE	528180.83	1349632.44
1+41.83	1/16 H.B.	528062.91	1349603.12
1+76.21	1/16 H.B.	528036.67	1349580.79
2+26.36	1/32 H.B.	527988.29	1349567.60
2+76.86	2" DEFLECTION COUPLING	527942.34	1349546.66
3+11.87	8" X 8" F.H. TEE	527909.81	1349533.71
3+91.09	8" VALVE	527836.20	1349504.40
4+10.30	8" PLUG & BUTTRESS	527818.36	1349497.29

- 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 HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



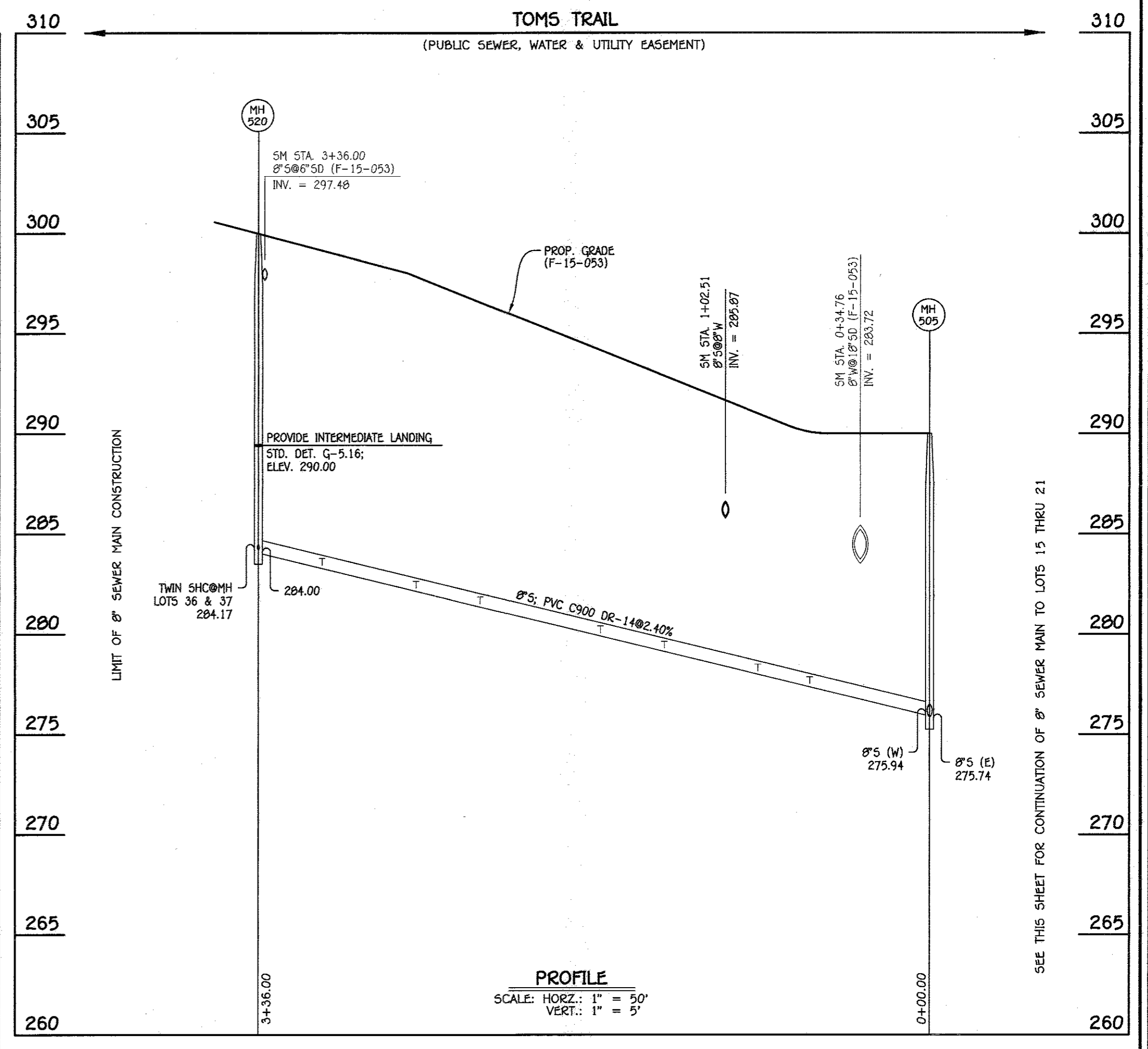
8" SEWER MAIN: LOTS 15 THRU 21

NO.	NORTHING	EASTING	RIM ELEVATION
500	528194.14	1349599.40	289.68
505	528200.29	1349577.12	290.00
510	528217.45	1349514.91	290.00
515	528226.46	1349343.26	283.53

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
EX. MH 6 TO MH 500						
0+500.00	15	275.75	275.95	280.45	280.67	290.67
MH 510 TO MH 515						
0+42 LT.	16	276.93	277.13	281.43	282.25	292.25
1+02 LT.	17 (1.00%)	277.36	277.46	280.46	280.50	290.50
1+13 RT.	21 *	277.44	277.84	282.44	279.00	289.00
1+35 RT.	20 *	277.60	278.00	282.80	276.85	286.85
1+50 LT.	18 *	277.71	277.95	282.05	278.67	288.67
0+MH 515 LT.	19 *	278.12	278.32	282.82	276.67	286.67

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

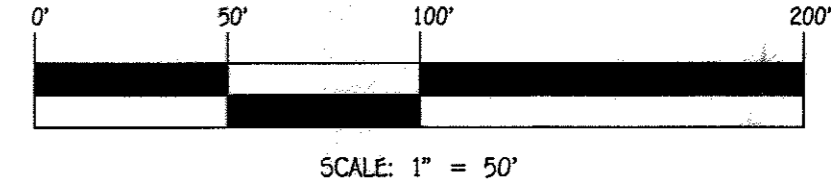


8" SEWER MAIN: LOTS 22 THRU 37

NO.	NORTHING	EASTING	RIM ELEVATION
505	528200.29	1349577.12	290.00
520	528224.18	1349666.51	299.97

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
MH 505 TO MH 520						
0+60 LT.	22	277.46	278.56	282.16	282.18	292.90
0+60 LT.	23	277.46	278.60	282.40	282.84	293.56
0+86 LT.	24	278.08	279.18	282.98	283.51	294.23
0+86 LT.	25	278.08	279.22	283.02	284.18	294.90
1+33 LT.	26	279.21	280.31	284.11	286.17	296.89
1+33 LT.	27	279.21	280.35	284.15	286.84	297.56
1+65 LT.	28	279.98	281.08	284.88	287.31	298.23
1+65 LT.	29	279.98	281.12	284.92	288.18	298.90
2+25 LT.	30	281.42	282.52	286.32	289.34	300.06
2+25 LT.	31	281.42	282.56	286.36	290.00	300.72
2+57 LT.	32	282.19	283.29	287.09	290.67	301.39
2+57 LT.	33	282.19	283.33	287.13	291.34	302.06
3+04 LT.	34	283.32	284.42	288.22	292.34	302.06
3+04 LT.	35	283.32	284.46	288.26	293.02	303.74
0+MH 520 LT.	36	284.17	285.27	289.07	293.02	303.74
0+MH 520 LT.	37	284.17	285.31	289.11	293.68	304.40



CONTRACT NO. 24-4849-D
FOX WOOD MANOR
LOTS 1 THRU 37 &
OPEN SPACE LOTS 38 THRU 43
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 5 OF 6 SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE DEPARTMENT OF PLANNING AND ZONING ON NOVEMBER 24, 2015.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

S. C. Coon
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chad Edinger
CHIEF, DEVELOPMENT ENGINEERING DIVISION

DATE: 10-28-16

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 7/16/18.

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

CONTINENTAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
BLIHOOT CITY, MARYLAND 21042
(410) 461-2895

#12043

DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: SEPTEMBER, 2016

SEWER & WATER MAIN EXTENSIONS PROFILES, NOTES & CHARTS

600' SCALE MAP NO. 50 BLOCK NO. 1

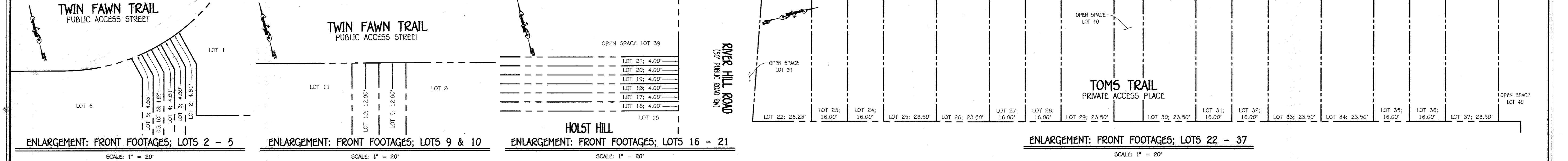
F.C.C. WORK ORDER NO. 12036-3001

FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

FOX WOOD MANOR
LOTS 1 THRU 37 & OPEN SPACE
LOTS 38 THRU 43
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 24-4849-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 5 OF 6



SEWER HOUSE CONNECTION CHART

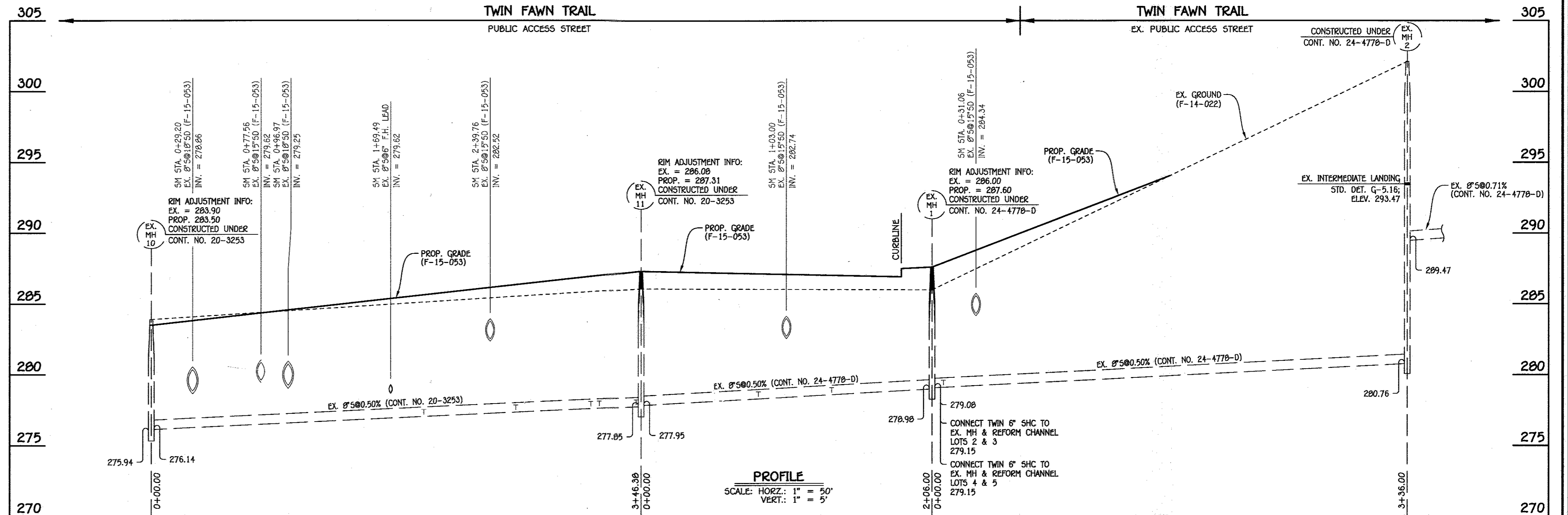
STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
EX. MH 10 TO EX. MH 11						
1+93 RT.	12 *	277.28	277.94	282.44 *	277.70	286.70
2+58 RT.	11 *	277.60	278.26	282.76 *	279.70	288.70
3+11 RT.	10 *	277.87	278.53	285.63 *	277.50	286.50
3+17 RT.	9 *	277.90	278.56	285.66 *	277.50	286.50
3+43 RT.	8 *	278.03	278.69	283.19 *	281.50	290.50
EX. MH 11 TO EX. MH 1						
0+83 RT.	7 *	278.54	279.20	283.70 *	281.35	290.35
1+35 RT.	6 *	278.80	279.46	283.96 *	281.00	290.00
0MH 1 RT.	5 **	279.15	279.35	287.65 **	274.13	283.13
0MH 1 RT.	4 **	279.40	279.40	288.30 **	269.00	279.00
0MH 1 CN.	3 **	279.15	279.42	287.15 **	272.70	282.70
0MH 1 CN.	2 **	279.15	279.35	285.95 **	277.50	287.50
EX. MH 1 TO EX. MH 2						
0+08 RT.	1 *	279.29	279.49	284.09 *	281.20	291.20

* MINIMUM SEWER SERVICE ELEVATION: FIRST FLOOR GRAVITY SEWER SERVICE ONLY
 ** MINIMUM SEWER SERVICE ELEVATION: NO GRAVITY SEWER SERVICE AVAILABLE

SEWER HOUSE CONNECTION CHART

STATION	LOT	ELEVATION AT MAIN	ELEVATION AT R/W	M.C.E.	B.E.	F.F.
EX. MH 4 TO EX. MH 5						
1+42 RT.	13 *	274.24	274.45	279.97 *	N/A	282.98
1+53 LT.	14 *	274.32	275.17	279.37 *	279.50	289.50

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



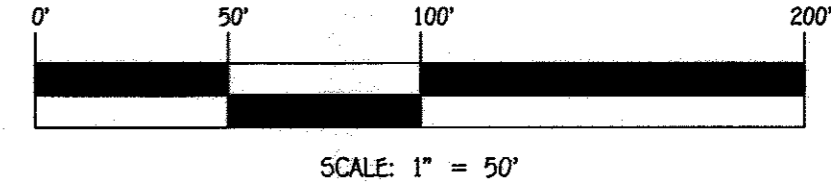
EXISTING 8" SEWER MAIN: TWIN FAWN TRAIL

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		14.2' TO EX. SMH #1	8.6' TO SHC #2
2		8.6' TO EX. SMH #1	13.5' TO EX. SMH #1
3		6.7' TO SHC #2	14.8' TO EX. SMH #1
4		8.9' TO SHC #3	16.9' TO EX. SMH #1
5		5.6' TO SHC #4	14.0' TO EX. SMH #1
6		34.9' TO VALVE STA. 1+76	9.6' TO WHC LOT 6
7		25.1' TO I-1 INLET	11.2' TO WHC LOT 7
8		10.6' TO WHC #8	35.6' TO EX. SMH #11
9		8.4' TO WHC LOT 9	7.5' TO SHC LOT 10
10		6.2' TO WHC LOT 9	7.5' TO SHC LOT 9
11		12.3' TO WHC LOT 11	22.9' TO I-3 INLET
12		12.1' TO WHC LOT 12	31.4' TO 8" VALVE STA. 4+18
13	EXIST. HOUSE		
14		21.6' TO I-13 INLET	13.9' TO WHC LOT 14
15		10.6' TO SMH #500	26.1' TO SMH #505
16		11.8' TO WHC LOT 16	45.4' TO SMH #510
17		31.9' TO SHC LOT 21	11.3' TO WHC LOT 16
18		10.5' TO WHC LOT 18	36.6' TO SMH #515
19		12.1' TO SMH 515	22.8' TO R.H. VALVE #3, 36
20		53.1' TO SMH 515	39.3' TO WHC LOT 18
21		3.8' TO WHC LOT 21	38.2' TO WHC LOT 17
22		24.9' TO I-9 INLET	3.9' TO WHC LOT 22
23		25.9' TO I-9 INLET	13.3' TO WHC LOT 23
24		42.6' TO I-9 INLET	13.2' TO WHC LOT 23
25		46.8' TO I-9 INLET	8.9' TO WHC LOT 25
26		23.5' TO I-16 INLET	9.6' TO WHC LOT 26
27		21.2' TO I-16 INLET	14.8' TO WHC LOT 26
28		29.4' TO I-16 INLET	11.4' TO WHC LOT 27
29		33.6' TO I-16 INLET	11.8' TO WHC LOT 28
30		84.8' TO I-16 INLET	8.3' TO WHC LOT 30
31		30.8' TO I-16 INLET	14.3' TO WHC LOT 30
32		53.3' TO VALVE STA. 1+80	15.1' TO WHC LOT 33
33		52.2' TO VALVE STA. 1+80	20.4' TO WHC LOT 32
34		51.8' TO VALVE STA. 1+80	66.4' TO SMH 520
35		52.8' TO VALVE STA. 1+80	63.5' TO SMH 520
36		70.7' TO VALVE STA. 1+80	56.2' TO SMH 520
37		75.8' TO VALVE STA. 1+80	56.6' TO SMH 520

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		47.7' TO EX. SMH #1	14.3' TO SHC #1
2		43.9' TO WHC LOT 1	31.4' TO EX. SMH #1
3		50.4' TO F.H. VALVE	62.2' TO WHC LOT 4
4		62.2' TO WHC LOT 3	34.2' TO F.H. VALVE
5		37.2' TO F.H. VALVE	38.1' TO WHC LOT 3
6		9.6' TO SHC LOT 6	41.8' TO VALVE #23 Audrey
7		32.8' TO I-1	80.6' TO EX. SMH #11
8		34.4' TO EX. SMH #11	29.3' TO WHC #9 LOT
9		40.1' TO EX. SMH #11	29.3' TO WHC LOT 6
10		54.1' TO EX. SMH #11	20.3' TO WHC LOT 5
11		33.4' TO I-3 E	51.7' TO I-4 E
12		38.8' TO I-3 E	41.4' TO F.H. VALVE
13	EXIST. LOT		
14		32.5' TO I-13 E	14.4' TO SHC LOT 14
15		25.5' TO SMH 505	41.7' TO SMH 510
16		38.8' TO SMH 505	11.6' TO SHC LOT 16
17		32.8' TO WHC LOT 21	11.5' TO SHC LOT 17
18		28.7' TO SMH 515	32.5' TO F.H. VALVE
19		27.3' TO SMH 515	32.8' TO F.H. VALVE
20		22.9' TO F.H. VALVE	28.3' TO SMH 515
21		32.8' TO WHC LOT 17	78.3' TO WHC LOT 16
22		27.6' TO I-9	3.9' TO SHC LOT 22
23		31.6' TO I-9	13.3' TO SHC LOT 23
24		31.6' TO I-9	13.3' TO SHC LOT 23
25		53.2' TO I-9	23.9' TO WHC LOT 26
26		27.2' TO I-16	23.9' TO WHC LOT 25
27		22.4' TO I-16	11.3' TO SHC LOT 28
28		22.4' TO I-16	11.3' TO SHC LOT 28
29		42.8' TO I-16	16.2' TO SHC LOT 28
30		74.4' TO I-16	36.4' TO WHC LOT 29
31		60.8' TO VALVE @ 1+80	13.6' TO SHC LOT 32
32		40.8' TO VALVE @ 1+80	13.6' TO SHC LOT 32
33		45.6' TO VALVE @ 1+80	22.9' TO WHC LOT 34
34		47.8' TO VALVE @ 1+80	70.6' TO SMH 520
35		41.7' TO VALVE @ 1+80	38.8' TO SMH 520
36		61.7' TO VALVE @ 1+80	58.8' TO SMH 520
37		83.1' TO VALVE @ 1+80	58.5' TO SMH 520

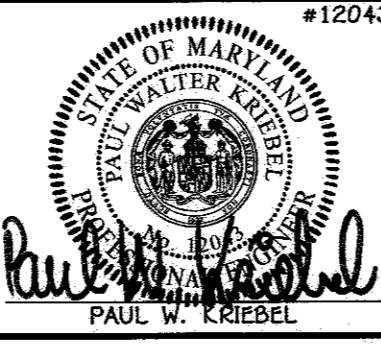


CONTRACT NO. 24-4849-D
 FOX WOOD MANOR
 LOTS 1 THRU 37 & OPEN SPACE
 SEWER & WATER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 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. 12043 EXPIRATION DATE IS 7/16/16.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CONFIDENTIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 BELTSVILLE CITY, MARYLAND 21104
 (410) 461-2895



DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: OCTOBER, 2015

EX. SEWER MAINS
 PROFILE, CHART,
 AS-BUILT LOCATION TABLES &
 ENLARGEMENTS: FRONT FOOTAGES
 600' SCALE MAP NO. 50 BLOCK NO. 1
 F.C.C. WORK ORDER NO. 12036-3001
 FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

FOX WOOD MANOR
 LOTS 1 THRU 37 & OPEN SPACE
 LOTS 38 THRU 43
 SEWER & WATER MAIN EXTENSIONS
 CONTRACT NO. 24-4849-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 6 OF 6