

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT	SUPPLIER
8" S. PVC SDR-35	372 L.F.	320	SEWER	NORTH AMERICAN
4" S. PVC SDR-35	56 L.F.	47	SEWER	NORTH AMERICAN
MANHOLES	3 EACH	3	SEWER	CPP
CLEAN-OUTS	4 EACH	4	SEWER	CONE AND MANN
8" W. C900 PVC DR-18	325 L.F.	324	WATER	NATIONAL
6" W. C900 PVC DR-18	10 L.F.	10	WATER	NATIONAL
1-1/2" W.H.C.	02 L.F.	00	WATER	CAMBRIDGE LEAF
1/16 H.B.	1 EACH	1	WATER	SIGMA
1/32 H.B.	1 EACH	0	WATER	SIGMA
8"x6" F.H. TEE	1 EACH	1	WATER	SIGMA
8" VALVE	2 EACH	2	WATER	KENNEDY
6" VALVE	1 EACH	1	WATER	KENNEDY
8" PLUG & BUTTRESS	1 EACH	1	WATER	SIGMA
OUTSIDE METER SETTING	6 EACH	6	WATER	MCDONALD
FIRE HYDRANT	1 EACH	1	WATER	KENNEDY
CONTINUITY TEST STATION	1 EACH	1	WATER	DINGBAMAND WYSE
MAIN OPEN PIPE MAIN	1 EACH			

NAME OF UTILITY CONTRACTOR: GARLAND L. BEZIAN
SURVEY & DRAFTING DIVISION AS-BUILT DATE:

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #354A - HORIZONTAL - NAD '83
(LOCATED NEAR THE END OF BARLEY CORN ROW, APPROX. 06.2' DIRECTLY BEHIND HOUSE #6523.
APPROX. 66' EAST 3" PINE TREE & APPROX. 45' WEST 3" PINE TREE)
N 560,767.681
E 1,325,463.897
ELEVATION = 430.957 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #3588 - HORIZONTAL - NAD '83
(LOCATED ALONG SOUTH WIND CIRCLE, APPROX. 03.4' EAST OF THE FIRE HYDRANT NEAR THE INTERSECTION
MISTY TOP PATH AND SOUTH WIND CIRCLE, APPROX. 34.7' SOUTH OF EDGE OF PAVING)
N 560,700.404
E 1,326,537.287
ELEVATION = 394.271 - VERTICAL - (NAVD '88)

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
0021	11850 TALL TIMBER DRIVE	TYSON TALL TIMBER LLC	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 BUILDING IS CONNECTED TO THE PUBLIC WATER AND SEWER 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. Keibel; FOR:
TYSON TALL TIMBER, INC. 11-30-17
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. Keibel 11/30/17
SIGNATURE OF ENGINEER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 306 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN THESE PLANS.

Paul W. Keibel; FOR:
TYSON TALL TIMBER, INC. 11-30-17
SIGNATURE OF DEVELOPER DATE

F-17-031

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

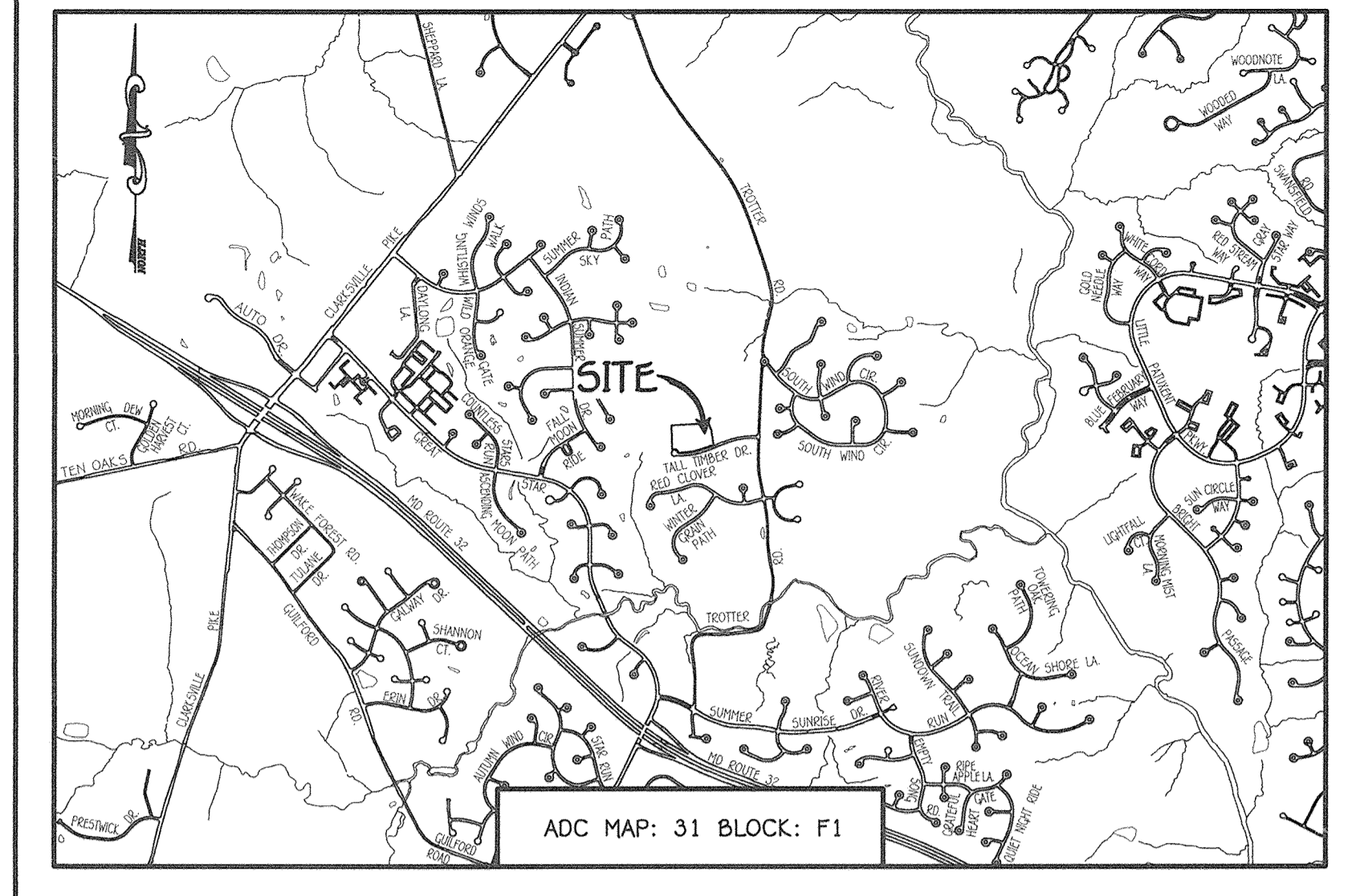
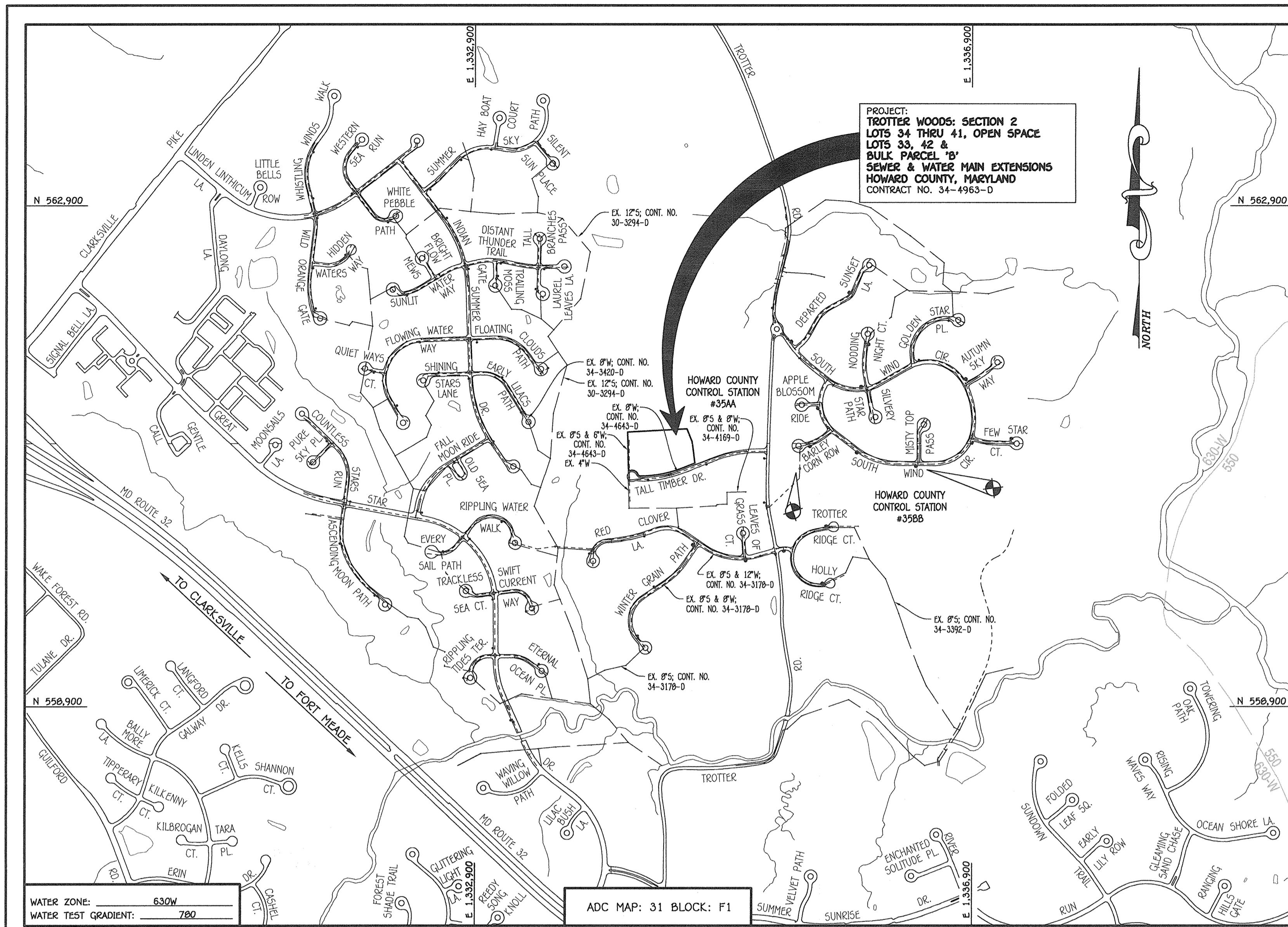
APPROVED:
John R. Robertson 12/20/17
HOWARD SOIL CONSERVATION DISTRICT DATE

LEGEND	
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

TYPE OF BUILDING:	RESIDENTIAL - SINGLE FAMILY DETACHED
NUMBER OF LOTS:	2
NO. OF WATER HOUSE CONNECTIONS:	4
NO. OF SEWER HOUSE CONNECTIONS:	4
SEWER SHED:	MIDDLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WASTEWATER RECLAMATION PLANT SAVAGE, MARYLAND

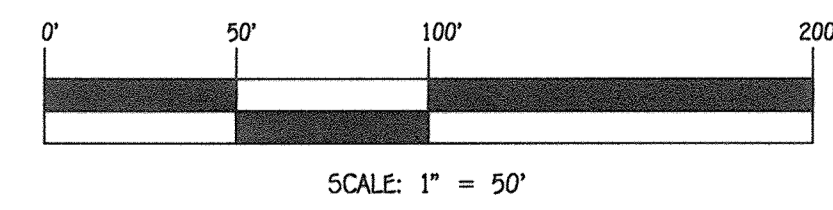
LOCATION MAP
SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
ECP-16-047
F-17-031 (RECORDED PLAT)
SDP-18-



GENERAL NOTES

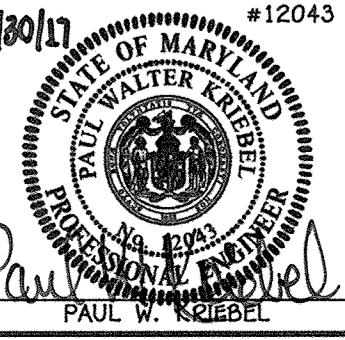
- PART A**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT JUNE, 2015 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. 354A & NO. 3588.
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.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL UTILITIES BY 2' 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 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 PITS HAVE BEEN MADE IN EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL (C) 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 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 (CONTRACTOR SERVICES) 410-637-8713
BGE (EMERGENCY) 410-689-0123
BUREAU OF UTILITIES 410-313-4900
COLONIAL PIPELINE CO 410-799-1990
MES UTILITY 1-800-297-7777
STATE HIGHWAY ADMINISTRATION 410-531-9533
VERIZON 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 STAKE 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 (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.
- PART B: WATER MAIN GENERAL NOTES**
- ALL WATER MAINS SHALL BE ANNA C900 PVC DR-18.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
 - 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.
 - TRACES 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 ANNA 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 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 INSERTION LINES ON GASKETED PIPE INDICATE THE MAXIMUM OR 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(CO) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING 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 220 PSI MEETING THE REQUIREMENTS OF ANNA 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 ANNA 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 ALIGNMENT OF ANNA 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 RETENTION SPIGOT TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA 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.
- 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 18" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATER-TIGHT 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 SEVERED.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
12-11-17
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
12-11-17
DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY 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
CENTRAL SQUARE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461 - 2055

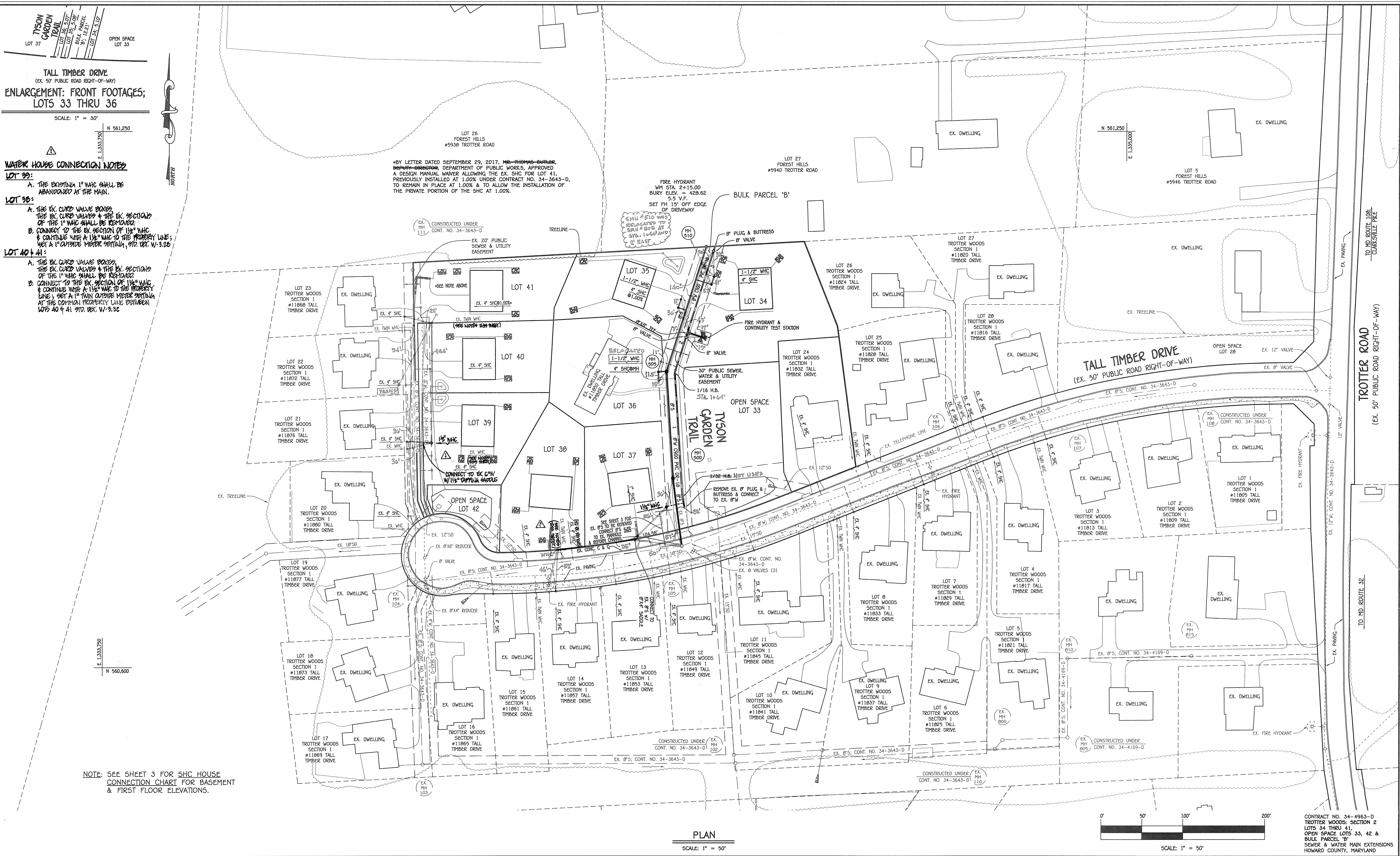


DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	NOVEMBER, 2017
BY NO.	NO.
REVISION	REVISION

OWNER / DEVELOPER
TYSON TALL TIMBER INC.
11850 TALL TIMBER DRIVE
CLARKSVILLE, MD 21029-1213
(410) 370-9406
ATTN: MR. LARRY TYSON

600' SCALE MAP NO. 35 BLOCK NO. 8
F.C.C. WORK ORDER NO. 15005-3001
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

TROTTER WOODS: SECTION 2
LOTS 34 THRU 41, OPEN SPACE LOTS 33, 42 & BULK PARCEL 'B'
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 34-4963-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 1 of 4



TALL TIMBER DRIVE
(EX. 50' PUBLIC ROAD RIGHT-OF-WAY)
ENLARGEMENT: FRONT FOOTAGES;
LOTS 33 THRU 36

SCALE: 1" = 30'

WATER HOUSE CONNECTION NOTES

LOT 39:
A. THE EXISTING 1" WMC SHALL BE ABANDONED AT THE MAIN.

LOT 38:
A. THE EX. CURB VALVE BOXES, THE EX. CURB VALVES & THE EX. SECTIONS OF THE 1" WMC SHALL BE REMOVED.
B. CONNECT TO THE EX. SECTION OF 1 1/2" WMC & CONTINUE WITH A 1 1/2" WMC TO THE PROPERTY LINE; SET A 1" OUTSIDE WATER METER SETTING AT THE COMMON PROPERTY LINE BETWEEN LOTS 40 & 41. 912. REC. W-3.25

LOT 40 & 41:
A. THE EX. CURB VALVE BOXES, THE EX. CURB VALVES & THE EX. SECTIONS OF THE 1" WMC SHALL BE REMOVED.
B. CONNECT TO THE EX. SECTION OF 1 1/2" WMC & CONTINUE WITH A 1 1/2" WMC TO THE PROPERTY LINE; SET A 1" OUTSIDE WATER METER SETTING AT THE COMMON PROPERTY LINE BETWEEN LOTS 40 & 41. 912. REC. W-3.32

*BY LETTER DATED SEPTEMBER 29, 2017, MR. THOMAS BUTLER, DEPUTY DIRECTOR, DEPARTMENT OF PUBLIC WORKS, APPROVED A DESIGN MANUAL WAIVER ALLOWING THE EX. SHC FOR LOT 41, PREVIOUSLY INSTALLED AT 1.00% UNDER CONTRACT NO. 34-3643-D, TO REMAIN IN PLACE AT 1.00% & TO ALLOW THE INSTALLATION OF THE PRIVATE PORTION OF THE SHC AT 1.00%.

NOTE: SEE SHEET 3 FOR SHC HOUSE CONNECTION CHART FOR BASEMENT & FIRST FLOOR ELEVATIONS.

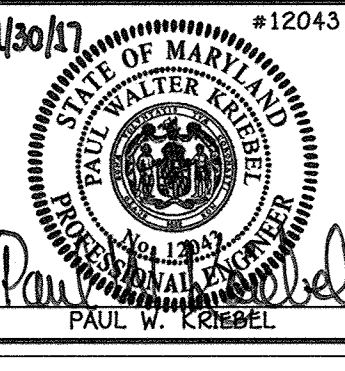
PLAN

SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Chief, Bureau of Utilities
12-11-17

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Chief, Development Engineering Division
1.3.18

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 5/15/18.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALDOROCK NATIONAL Pk. ELLICOTT CITY, MARYLAND 21042 (410) 461-2899

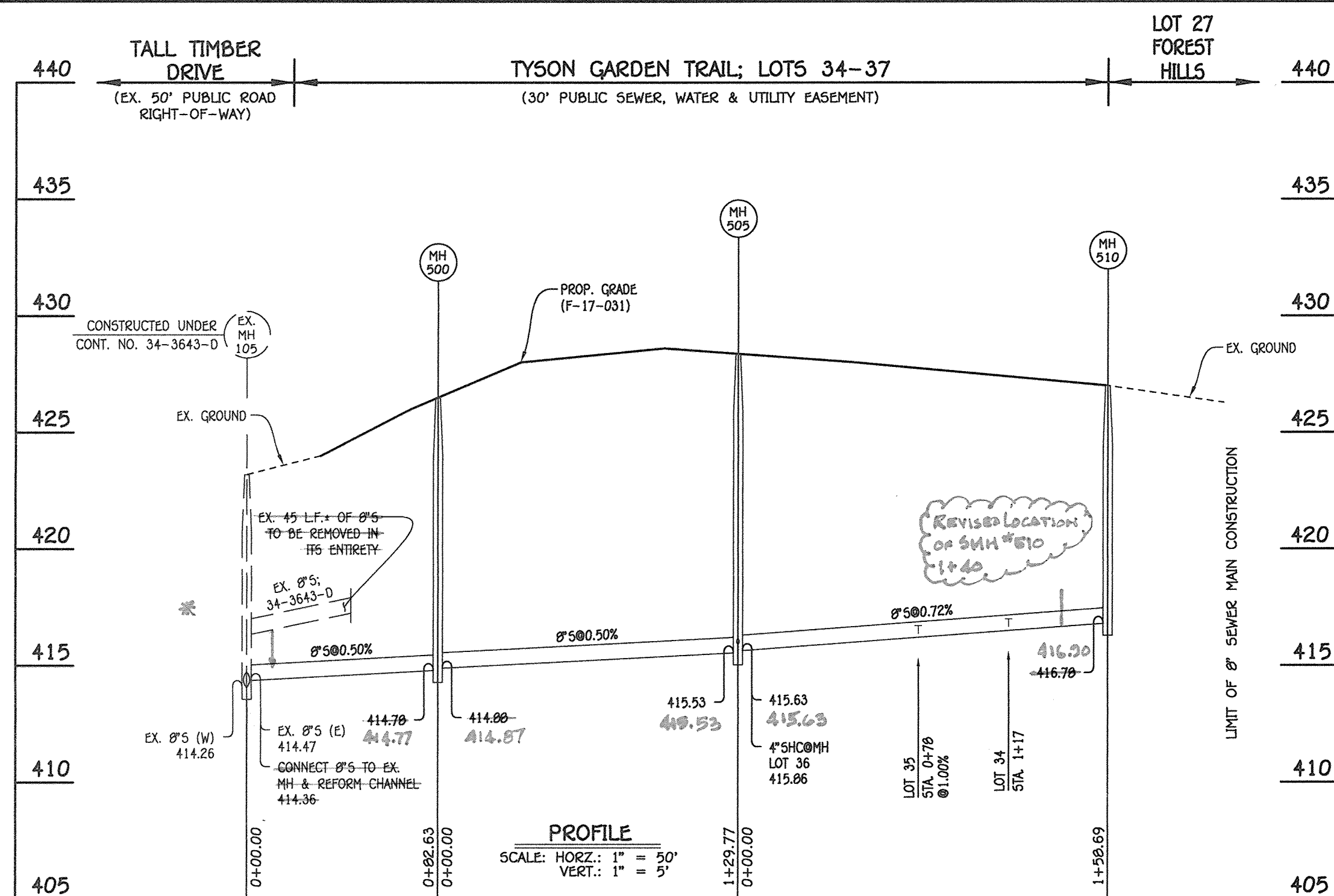


DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	NOVEMBER, 2017
PGC BY NO.	UPDATE WMC'S SIZES FOR LOTS 38 & 41
REVISION	

SEWER & WATER MAIN EXTENSIONS PLAN AND ENLARGEMENT: FRONT FOOTAGES
600' SCALE MAP NO. 35 BLOCK NO. 0
F.C.C. WORK ORDER NO. 15005-3001
DATE: FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

TROTTER WOODS: SECTION 2
LOTS 34 THRU 41, OPEN SPACE LOTS 33, 42 & BULK PARCEL 'B'
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 34-4963-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 4



8" SEWER MAIN: LOTS 34-36

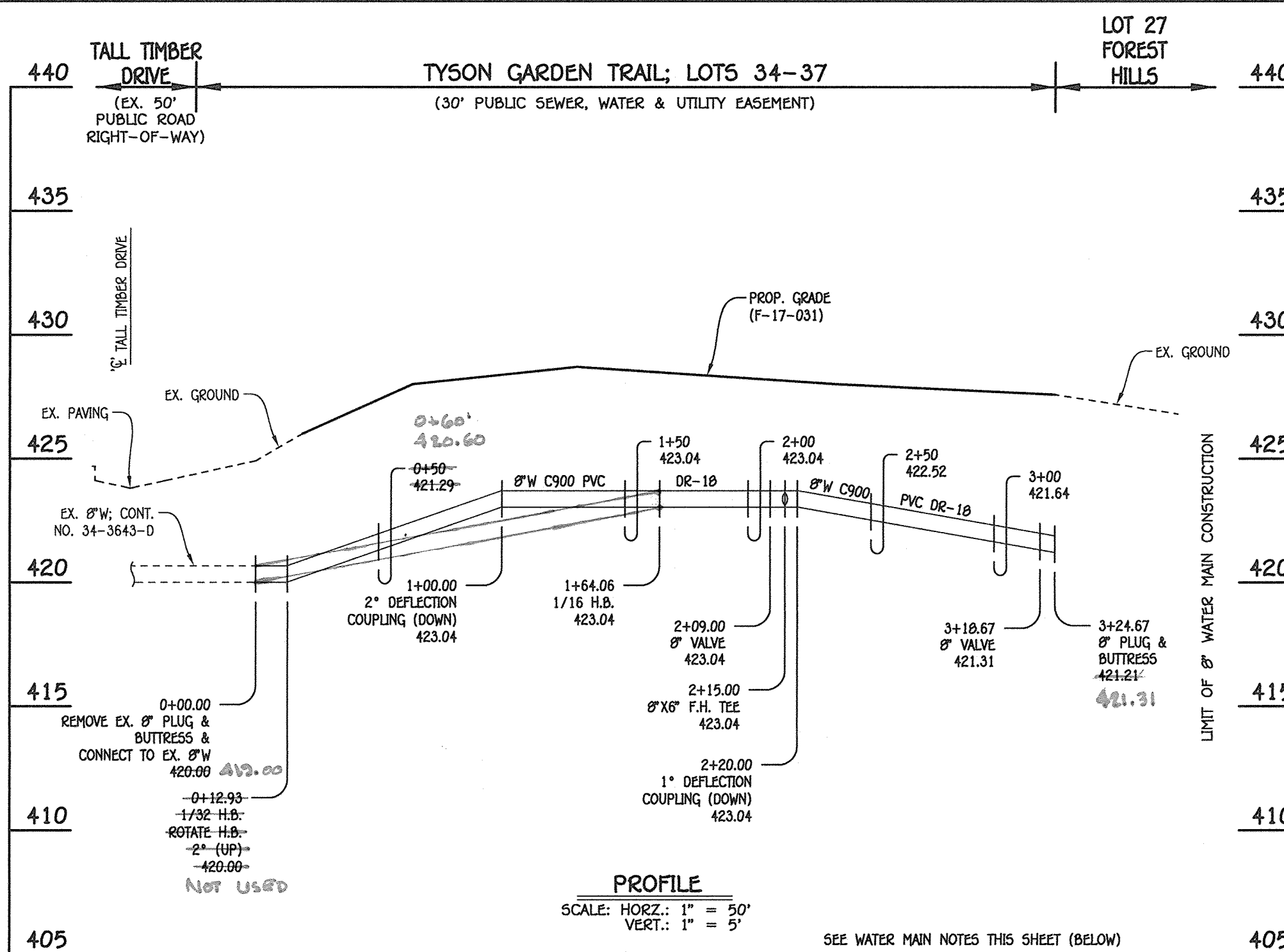
The existing 8" sewer pipe was not located as shown on plans. The pipe penetrated MH #505 at the base of the MH and was utilized.

NO.	NORTHING	EASTING	RIM ELEVATION
500	560829.24	1334446.65	426.49
505	560958.75	1334438.56	428.37
510	561109.87	1334486.99	426.99

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 104 TO EX. MH 105						
2+72 LT.	37	410.89	411.20	416.00	417.00	426.00
MH 500 TO MH 505						
0+78 RT.	36	415.86	416.06	421.46	423.23	431.37
MH 505 TO MH 510						
0+78 RT.	35 (0.1.00%)	416.36	416.46	420.16	420.23	429.23
1+17 RT.	34	416.64	417.04	421.74	424.50	433.50

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
34			
35			
36			
37			

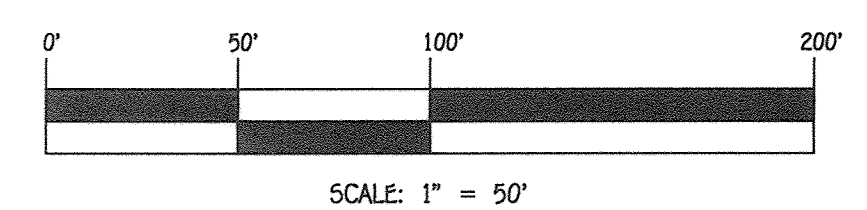


8" WATER MAIN: LOTS 34-36

- 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.

W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN: LOTS 34-36			
0+00.00	EX. 8" PLUG & BUTTRESS	560794.03	1334460.82
0+12.93	1/32 H.B.	560806.66	1334458.08
1+64.06	1/16 H.B.	560957.50	1334448.66
2+09.00	8" VALVE	561000.30	1334462.37
2+15.00	8" X 6" F.H. TEE	561006.01	1334464.21
3+18.67	8" VALVE	561104.73	1334495.84
3+24.67	8" PLUG & BUTTRESS	561110.45	1334497.67

LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
34			
35			
36			
37			

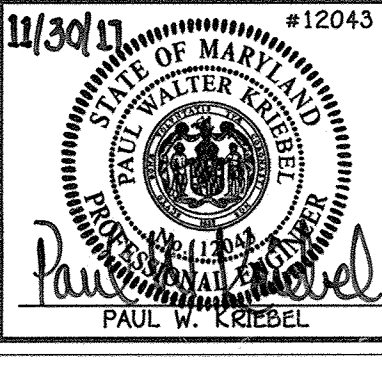


CONTRACT NO. 34-4963-D
TROTTER WOODS: SECTION 2
LOTS 34 THRU 41,
OPEN SPACE LOTS 33, 42 &
BULK PARCEL 'B'
SEWER & WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Chief
CHIEF, BUREAU OF UTILITIES
12-11-17
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
Chief
CHIEF, DEVELOPMENT ENGINEERING DIVISION
1-3-18
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. 12243 EXPIRATION DATE 5/21/18.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL Pk.
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2895



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: NOVEMBER, 2017
BY NO. REVISION DATE

SEWER & WATER MAIN EXTENSIONS
PROFILES, CHARTS, TABLES & NOTES
600' SCALE MAP NO. 35 BLOCK NO. 8
F.C.C. WORK ORDER NO. 15005-3001
FILE NAME: SEWER & WATER MAIN EXTENSION PLAN

TROTTER WOODS: SECTION 2
LOTS 34 THRU 41, OPEN SPACE LOTS 33, 42 &
BULK PARCEL 'B'
SEWER & WATER MAIN EXTENSIONS
CONTRACT NO. 34-4963-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

