

| QUANTITIES | | | | |
|------------------------------|------------|------------|---------|----------------------|
| ITEM | ESTIMATED | AS-BUILT | | |
| | | QUANTITIES | TYPE | SUPPLIER |
| 8" S | 2,834 L.F. | 2,920 | SDR 35 | NORTH AMERICAN PIPE |
| 6" S | 612 L.F. | 860 | SDR 35 | NORTH AMERICAN PIPE |
| 4" S | 886 L.F. | 1,000 | SDR 35 | NORTH AMERICAN PIPE |
| CLEAN-OUTS | 95 EACH | 94 | --- | HORNE CONCRETE |
| MANHOLE | 21 EACH | 21 | --- | CONTRACTORS PRECAST |
| 8" PLUG | 4 EACH | 4 | SDR 35 | MULTI-FITTINGS |
| 12" W | 1,253 L.F. | 1,260 | C-900 | NORTH AMERICAN PIPE |
| 8" W | 1,598 L.F. | 1,580 | C-900 | NORTH AMERICAN PIPE |
| 6" W | 120 L.F. | 120 | C-900 | NORTH AMERICAN PIPE |
| 1-1/2" WHC | 1,249 L.F. | 1,900 | TYPE K | CEKRO FLOW PRODUCTS |
| 12" VALVE | 5 EACH | 5 | A236023 | MUELLER COMPANY |
| 8" VALVE | 9 EACH | 7 | A236023 | MUELLER COMPANY |
| 6" VALVE | 6 EACH | 6 | A236023 | MUELLER COMPANY |
| 1/8" H.B. | 3 EACH | 3 | C153 | TYLER/UNION |
| 1/16" H.B. | 3 EACH | 3 | C153 | TYLER/UNION |
| 1/32" H.B. | 1 EACH | 1 | C153 | TYLER/UNION |
| 2" HDC | 4 EACH | 4 | --- | NORTH AMERICAN |
| 3" HDC | 2 EACH | 2 | --- | NORTH AMERICAN |
| 12" X8" TEE | 2 EACH | 2 | C153 | TYLER/UNION |
| 12" X6" TEE | 2 EACH | 2 | C153 | TYLER/UNION |
| 8" X8" TEE | 2 EACH | 2 | C153 | TYLER/UNION |
| 8" X6" TEE | 4 EACH | 4 | C153 | TYLER/UNION |
| 12" X12" TAPPING SLEEVE | 1 EACH | 1 | 663 SS | MUELLER COMPANY |
| 12" TAPPING VALVE | 1 EACH | 1 | T236019 | MUELLER COMPANY |
| 12" X8" TAPPING SLEEVE | 1 EACH | 1 | 663 SS | MUELLER COMPANY |
| 8" TAPPING VALVE | 1 EACH | 1 | T236019 | MUELLER COMPANY |
| FIRE HYDRANT | 6 EACH | 6 | A423 | MUELLER COMPANY |
| SINGLE OUTSIDE METER SETTING | 32 EACH | 32 | --- | SMITH BLAIR |
| TWIN OUTSIDE METER SETTING | 30 EACH | 30 | --- | SMITH BLAIR |
| CONTINUITY TEST STATION | 6 EACH | 6 | --- | VESTAL MANUFACTURING |

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

BENCHMARK INFORMATION
 B.M.#1 - HOWARD COUNTY CONTROL STATION #438A - HORIZONTAL - (NAD '83)
 (LOCATED IN FRONT OF #7561 OLD WASHINGTON ROAD, APPROX. 4.2' BEHIND FIRE HYDRANT & APPROX. 2.9' BEHIND EDGE OF PAVING)
 N 590,534.2018
 E 1,376,905.2050
 ELEVATION = 209.296 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #438B - HORIZONTAL - (NAD '83)
 (LOCATED ALONG OLD WASHINGTON ROAD, APPROX. 350' SOUTH OF KIT KAT ROAD, ALONG EAST BOUND PAVING EDGE)
 N 591,576.6275
 E 1,378,108.3982
 ELEVATION = 209.431 - VERTICAL - (NAVD '88)

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 EROSION AND SEDIMENT 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:
 Beazer Homes, Inc. 10-09-14
 SIGNATURE OF DEVELOPER DATE

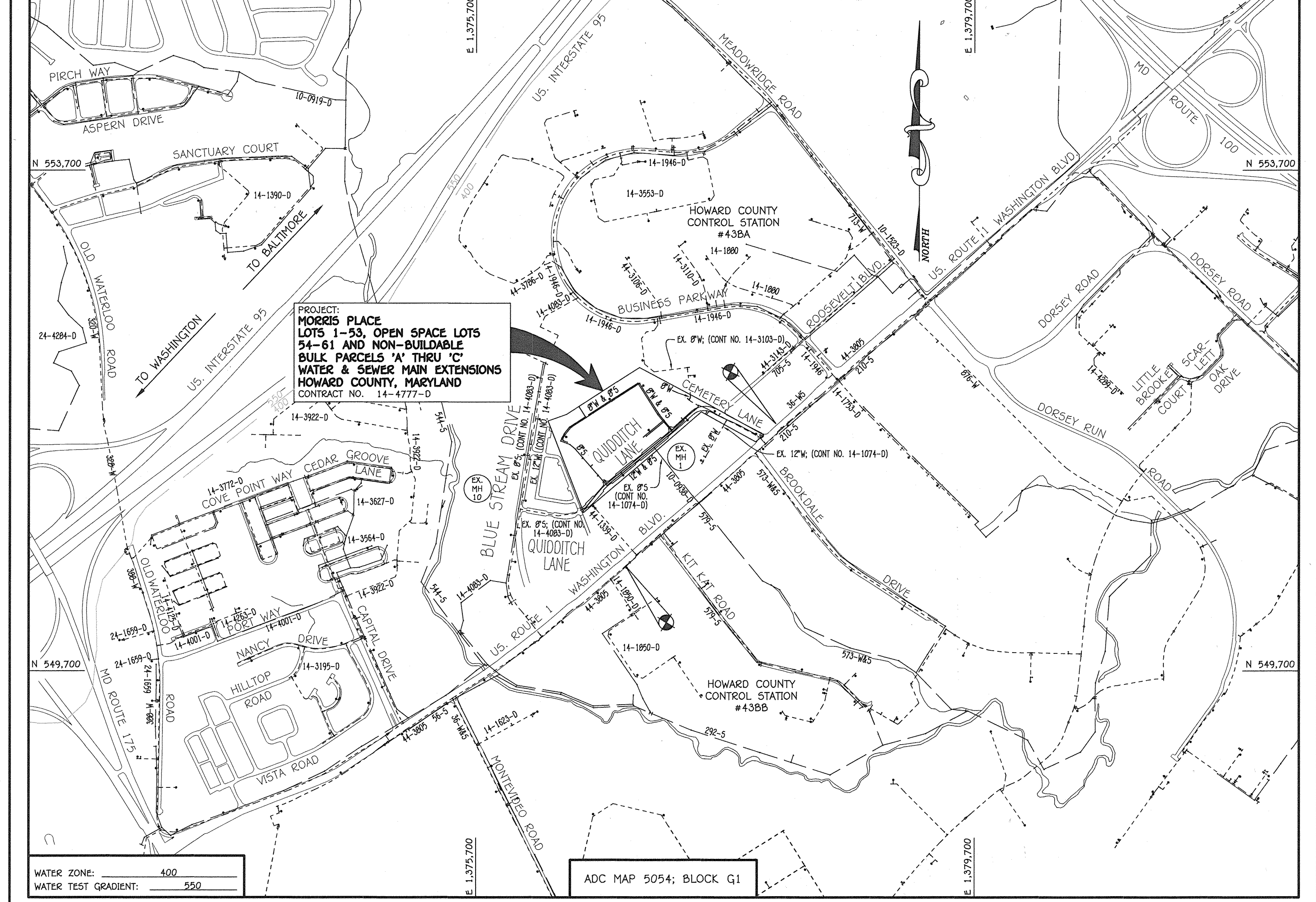
ENGINEER'S CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
 Paul W. Keibel; FOR:
 Beazer Homes, Inc. 10-09-14
 SIGNATURE OF DEVELOPER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 508 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE ROAD CONSTRUCTION PLAN, F-14-028.
 Paul W. Keibel; FOR:
 Beazer Homes, Inc. 10-09-14
 SIGNATURE OF DEVELOPER DATE

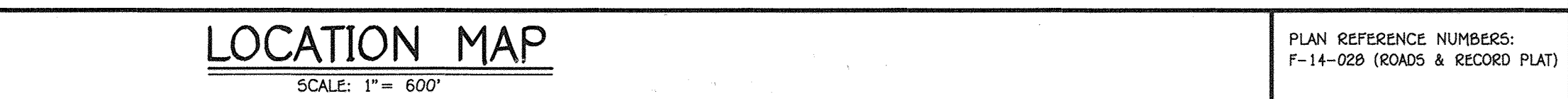
F-14-028

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

APPROVED: John P. Robertson 10/30/14
 HOWARD SOIL CONSERVATION DISTRICT DATE



| | |
|--|--|
| TYPE OF BUILDING: RESIDENTIAL / COMMERCIAL | 53 BUIDABLE / 43 FUTURE |
| NUMBER OF LOTS: | 96 |
| NO. OF SINGLE WATER HOUSE CONNECTIONS: | 30 |
| NO. OF TWIN WATER HOUSE CONNECTIONS: | 29 |
| NO. OF SINGLE SEWER HOUSE CONNECTIONS: | 10 |
| NO. OF TWIN SEWER HOUSE CONNECTIONS: | 42 |
| SEWER SHED: | PATAPSCO |
| TREATMENT PLANT: | PATAPSCO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE |

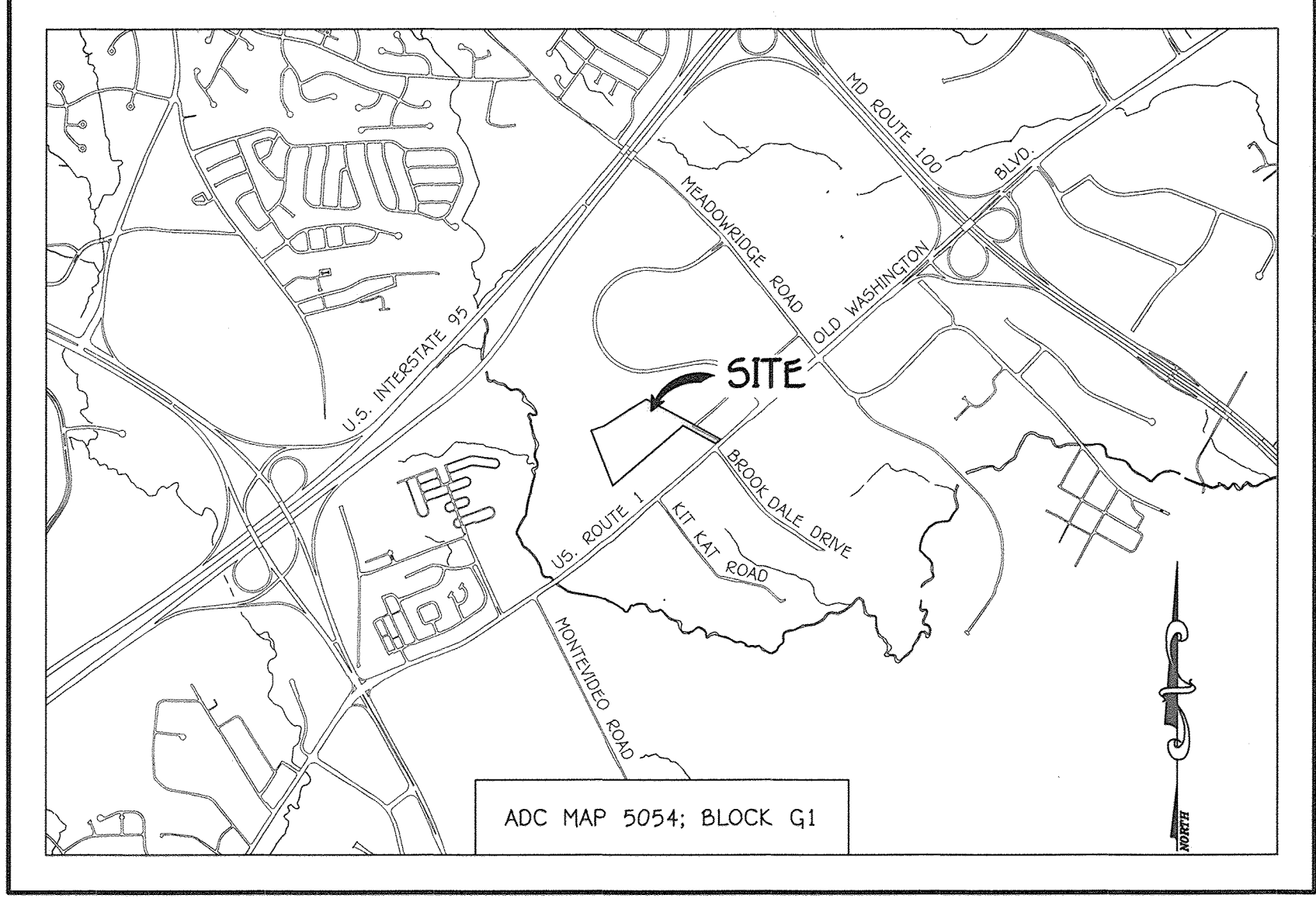


PLAN REFERENCE NUMBERS:
F-14-028 (ROADS & RECORD PLAN)

CONTRACT NO. 14-4777-D MORRIS PLACE LOTS 1-53, OPEN SPACE LOTS 54-61 & NON-BUILDABLE BULK PARCELS 'A' THRU 'C' WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

AS-BUILT
 10/12/14

OWNER / DEVELOPER
 BEAZER HOMES, INC.
 8965 GUILFORD ROAD
 COLUMBIA, MD 21046
 SUITE 230
 443-539-9249
 ATTN: MR. BRIAN KNAUFF



GENERAL NOTES
 SCALE: 1" = 2000'

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 OCTOBER, 2007 BY FISHER, COLLINS & CARTER, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATE SYSTEM SHOWN ON THESE DRAWINGS IS BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 438A & NO. 438B.
- 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 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 THE BRACING OF THE ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED TO 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 (S) 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 DRUG 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) | 410-837-8713 |
| BGE (EMERGENCY) | 410-689-0123 |
| BUREAU OF UTILITIES | 410-313-4900 |
| COLUMBIAN PIPELINE CO | 410-795-1990 |
| MISSISSIPPI UTILITY | 1-800-257-7777 |
| 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 STREETS 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 18.114(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 STRAPPED 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 508 AND SECTION 509 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 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 BELL. 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 (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 COMPACTOR EQUIPMENT DIRECTLY OVER THE FITTING.
- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREE (1 1/2-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI HEETING THE REQUIREMENTS OF AWWA C500, 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 SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) 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 MAINS, 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 SPRING 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" 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 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 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.
- HOUSES(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

MORRIS PLACE
 LOTS 1-53, OPEN SPACE LOTS 54-61
 AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4777-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'

CONTRACT NO. 14-4777-D
 MORRIS PLACE
 LOTS 1-53, OPEN SPACE LOTS
 54-61 AND NON-BUILDABLE BULK
 PARCELS 'A' THRU 'C'
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'

SCALE AS SHOWN

SHEET 1 OF 9

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

1. 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 5/7/16/18.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FIVE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2099

DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: OCTOBER, 2014

BY NO. REVISION

DATE: 10/23/14

DATE: N.G.

600' SCALE MAP NO. 43 BLOCK NO. 4

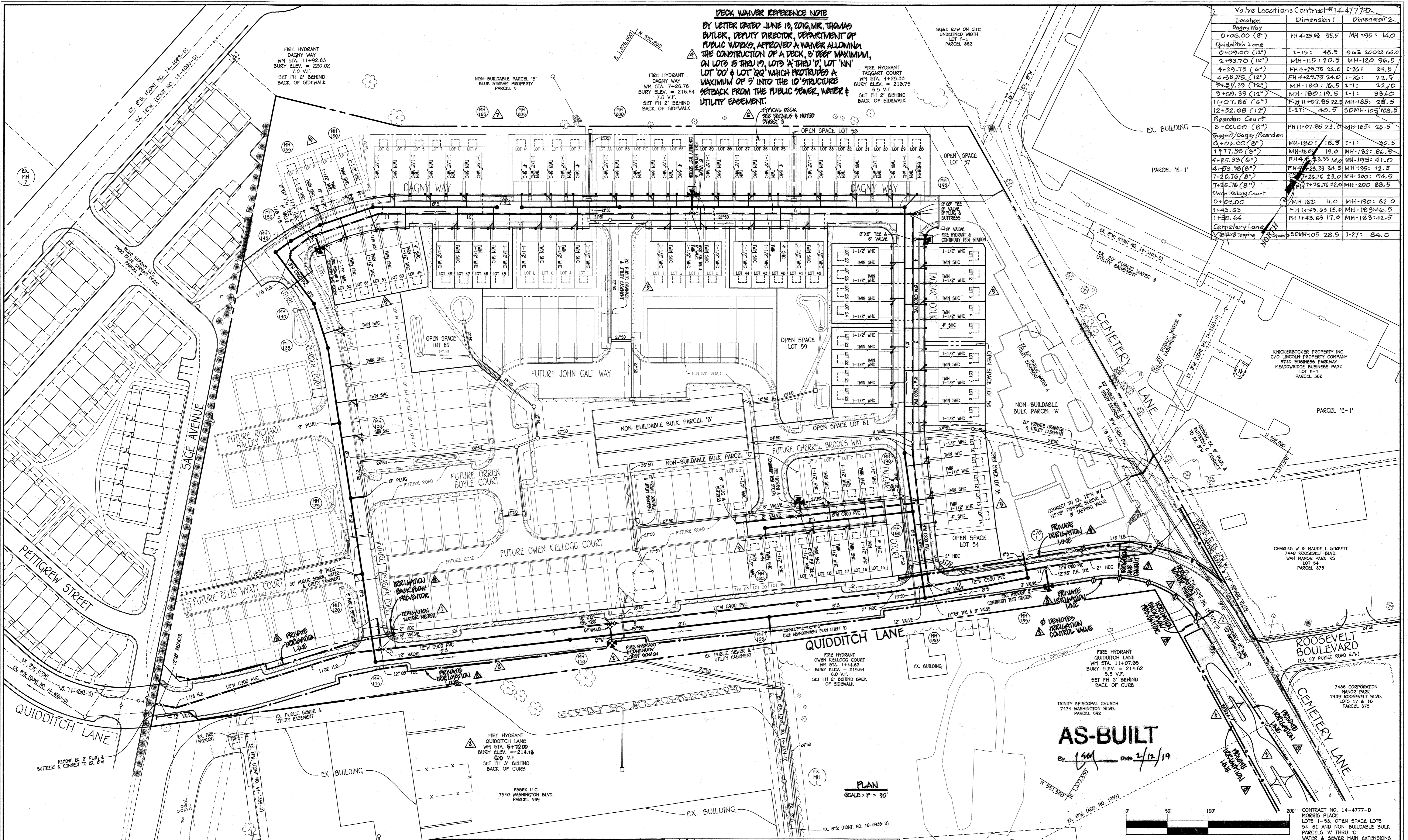
F.C.C. WORK ORDER NO. 07053-3001

FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

DATE: 10/23/14

DATE: 10/23/14

I:\2007\07053.dwg (Water & Sewer) Contract No. 14-4777-D (F-14-028) Phase IV Final Plan 07053-3001 Water & Sewer Contract Plan Final.dwg, 10/19/2014 12:13 PM



DECK WAIVER REFERENCE NOTE
 BY LETTER DATED JUNE 13, 2016, MR. THOMAS BUTLER, DEPUTY DIRECTOR, DEPARTMENT OF PUBLIC WORKS, APPROVED A WAIVER ALLOWING THE CONSTRUCTION OF A DECK, 8' DEEP MAXIMUM, ON LOTS 15 THRU 19, LOTS 'A' THRU 'D', LOT 'NN', LOT 'OO' & LOT 'QQ' WHICH PROTRUDES A MAXIMUM OF 9' INTO THE 10' STRUCTURE SETBACK FROM THE PUBLIC POWER, WATER & UTILITY EASEMENT.

| Location | Dimension 1 | Dimension 2 |
|----------------------|----------------|-------------------------------|
| Dagny Way | 0+06.00 (8') | FH 4+25.92 35.5 |
| Quidditch Lane | 0+09.00 (12') | I-13: 46.5 BGE 20023 68.0 |
| | 2+93.70 (12') | MH-115: 20.5 MH-120 96.5 |
| | 4+29.75 (6') | FH 4+29.75 22.0 I-26: 24.5 |
| | 4+38.75 (12') | FH 4+29.75 24.0 I-20: 22.5 |
| | 7+51.39 (12') | MH-180: 16.5 I-1: 33.0 |
| | 9+09.39 (12') | MH-180: 19.5 I-1: 33.0 |
| | 11+07.85 (6') | FH 11+07.85 22.5 MH-188: 26.5 |
| | 12+52.08 (12') | I-27: 40.5 50MH-105/108.5 |
| Rearden Court | 3+00.00 (8') | FH 11+07.85 23.0 MH-185: 25.5 |
| Nagert/Dagny/Rearden | 4+03.00 (6') | MH-180: 18.5 I-1: 30.5 |
| | 1+77.50 (6') | MH-180: 19.0 MH-182: 86.5 |
| | 4+25.33 (6') | FH 4+25.33 14.0 MH-195: 41.0 |
| | 4+59.38 (6') | FH 4+25.33 34.3 MH-195: 12.5 |
| | 7+20.76 (8') | FH 7+26.76 23.0 MH-200: 74.5 |
| | 7+26.76 (8') | FH 7+26.76 22.0 MH-200 88.5 |
| Owen Kellogg Court | 0+03.00 | MH-182: 11.0 MH-190: 62.0 |
| | 1+43.63 | FH 1+43.63 15.0 MH-183/46.5 |
| | 1+50.64 | FH 1+43.63 17.0 MH-183/42.5 |
| Cemetery Lane | 2+03.00 | 50MH-105 28.5 I-27: 84.0 |

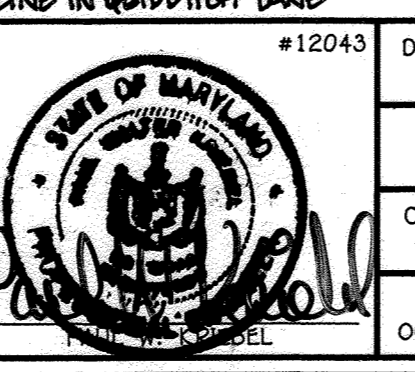
AS-BUILT
 By *[Signature]* Date 7/12/19

PLAN
 SCALE: 1" = 50'

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

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

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10222 BALDORNE NATIONAL PARK
 ELLICOTT CITY, MARYLAND 21102
 (410) 461 - 2895

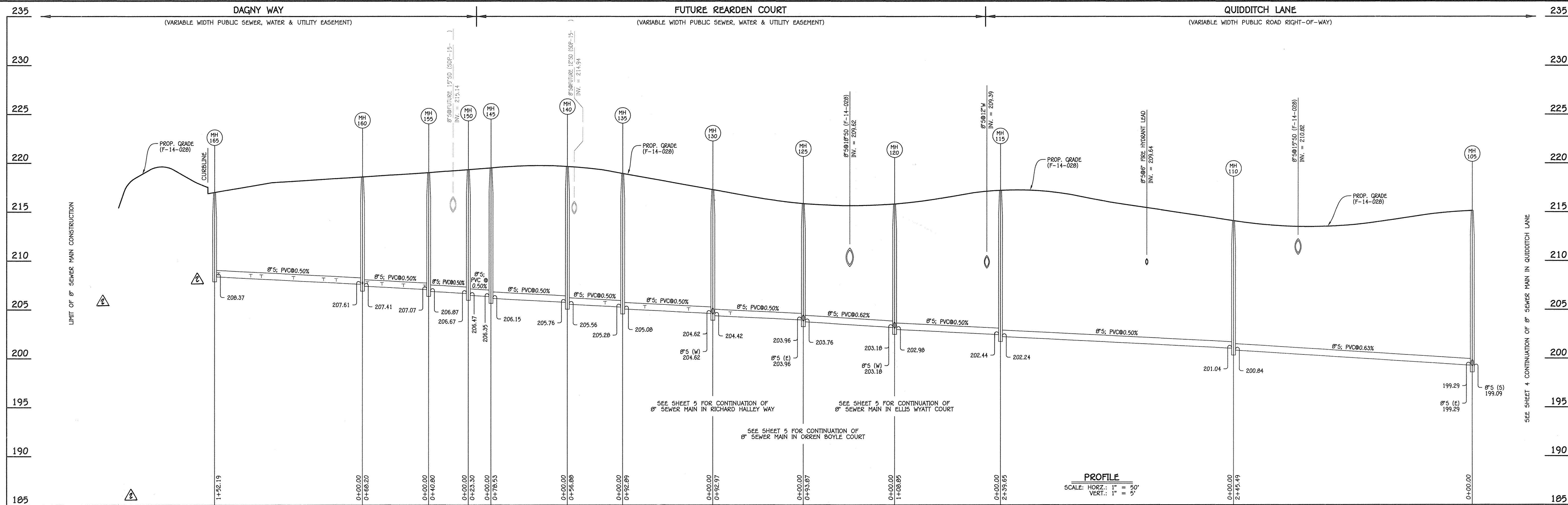


| DESIGNED BY: | DATE: | BY: | NO. | REVISION |
|--------------|---------|-----|-----|---|
| POC | 4/29/21 | POC | 1 | DELETE SECTION OF 6" SEWER MAIN ADJACENT PARCEL |
| B.C.R. | | POC | 2 | ADD REFERENCE NOTE FOR DECK, DETAILS & NOTES |
| B.C.R. | | POC | 3 | ADD 8' DEEP MAX DECK, TYPICAL ON ALL TOWNHOMES |
| B.C.R. | | POC | 4 | ADD DECK WAIVER REFERENCE NOTE |
| B.C.R. | | POC | 5 | ADD PROPOSED LANDSCAPE BERM |
| P.W.K. | | POC | 6 | RELOCATE FIRE HYDRANT INSTALLATION ALONG QUIDDITCH LANE |
| P.W.K. | | POC | 7 | ADD TWO (2) WATER METERS FOR IRRIGATION PURPOSES |
| | | | | |

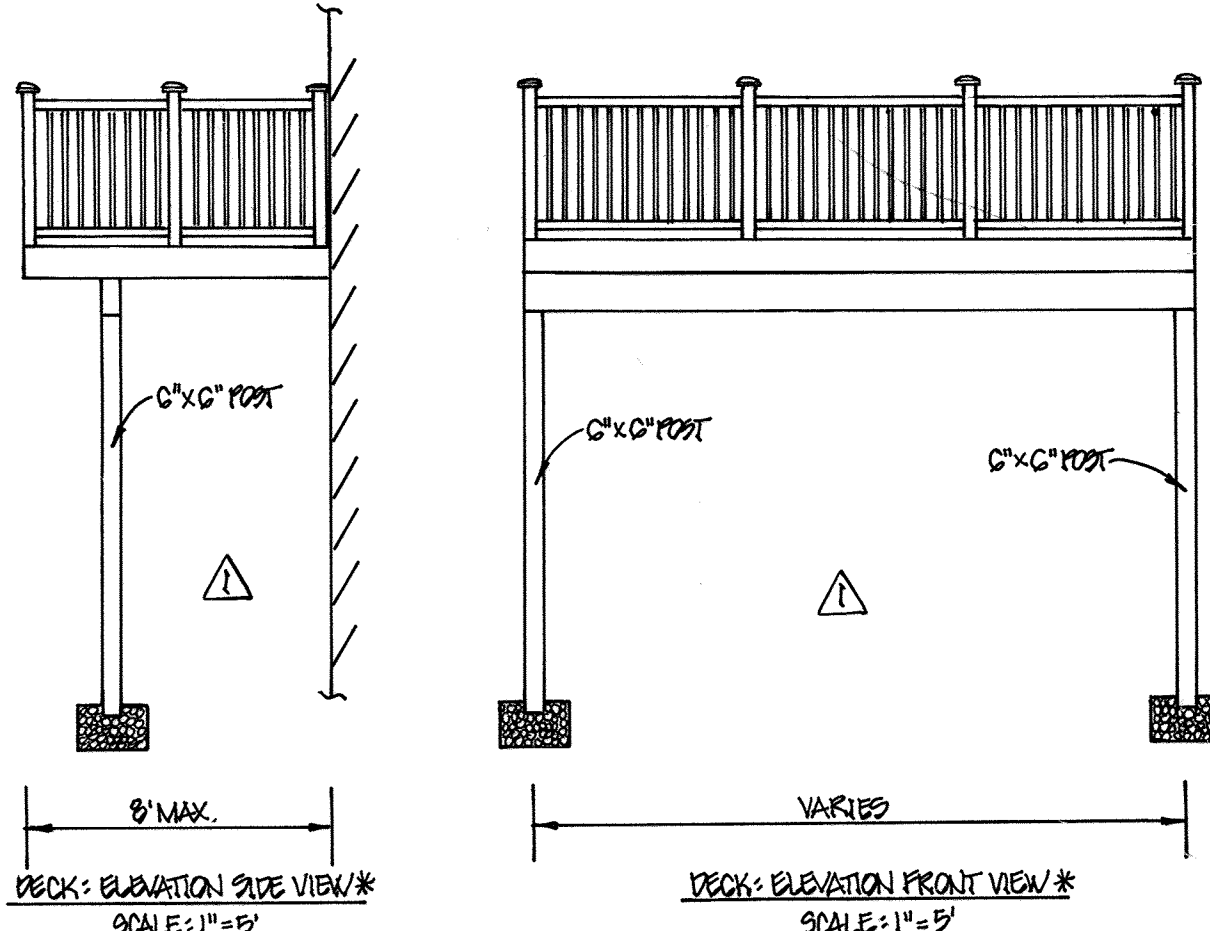
WATER & SEWER MAIN EXTENSIONS PLAN
 600' SCALE MAP NO. 43 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 07053-3001
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

MORRIS PLACE
 LOTS 1-53, OPEN SPACE LOTS 54-61 AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4777-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE AS SHOWN
 SHEET 2 OF 9

I:\2007\07053\dwg\Water & Sewer Contract No. 14-4777-D (14-026) - Phase I\Final Plan\07053-3001 Water & Sewer Contract Plan Final.dwg, 10/9/2014 12:25 PM



8" SEWER MAIN: QUIDDITCH LANE / FUTURE REARDEN COURT / DAGNY WAY



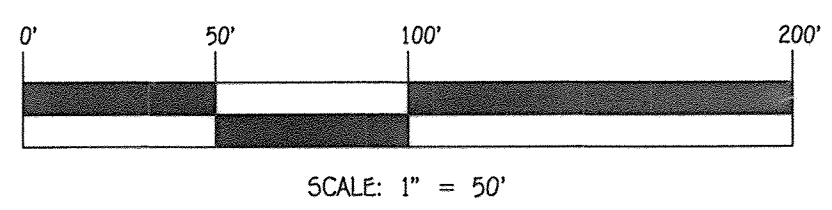
| MANHOLE TABULATION CHART | | | |
|--------------------------|-----------|------------|---------------|
| NO. | NORTHING | EASTING | RIM ELEVATION |
| 110 | 551332.43 | 1376933.40 | 214.10 |
| 115 | 551181.31 | 1376747.40 | 217.22 |
| 120 | 551263.09 | 1376675.56 | 215.82 |
| 125 | 551333.61 | 1376613.61 | 215.86 |
| 130 | 551403.46 | 1376552.26 | 217.28 |
| 135 | 551473.25 | 1376490.96 | 218.95 |
| 140 | 551509.67 | 1376447.27 | 219.67 |
| 145 | 551537.22 | 1376373.72 | 219.51 |
| 150 | 551558.98 | 1376382.03 | 219.33 |
| 155 | 551594.77 | 1376401.62 | 219.03 |
| 160 | 551647.92 | 1376444.36 | 218.59 |
| 165 | 551729.92 | 1376572.57 | 217.00 |

| SEWER HOUSE CONNECTION CHART | | | | | |
|------------------------------|-----|-------------------|------------------|--------|------|
| STATION | LOT | ELEVATION AT MAIN | ELEVATION AT R/W | M.C.E. | SLAB |
| MH 125 TO MH 130 | | | | | |
| 0+75 RT. | LL | 204.42 | 204.98 | 208.92 | |
| 0+75 RT. | MM | 204.42 | 204.92 | 208.86 | |
| MH 130 TO MH 135 | | | | | |
| 0+25 RT. | KK | 204.83 | 205.39 | 209.33 | |
| 0+25 RT. | JJ | 204.83 | 205.33 | 209.27 | |
| 0+70 RT. | II | 205.05 | 205.61 | 209.55 | |
| 0+70 RT. | HH | 205.05 | 205.55 | 209.49 | |
| MH 135 TO MH 140 | | | | | |
| 0+18 RT. | GG | 205.45 | 205.95 | 209.89 | |
| 0+18 RT. | FF | 205.45 | 206.01 | 209.95 | |
| MH 155 TO MH 160 | | | | | |
| 0+04 LT. | M | 207.17 | 207.77 | 211.57 | |
| 0+04 LT. | N | 207.17 | 207.73 | 211.53 | |
| 0+26 RT. | 53 | 207.28 | 207.88 | 211.94 | |
| 0+26 RT. | 52 | 207.28 | 207.84 | 211.90 | |
| 0+48 LT. | O | 207.39 | 207.99 | 211.79 | |
| 0+48 LT. | P | 207.39 | 207.95 | 211.75 | |
| 0+63 RT. | 51 | 207.47 | 208.07 | 212.13 | |
| 0+63 RT. | 50 | 207.47 | 208.03 | 212.09 | |
| MH 160 TO MH 165 | | | | | |
| 0+27 LT. | Q | 207.83 | 208.19 | 212.25 | |
| 0+27 LT. | R | 207.83 | 208.13 | 212.19 | |
| 0+40 RT. | 49 | 207.98 | 208.48 | 212.54 | |
| 0+71 LT. | S | 208.05 | 208.41 | 212.47 | |
| 0+71 LT. | T | 208.05 | 208.35 | 212.41 | |
| 1+04 RT. | 48 | 208.21 | 208.77 | 212.83 | |
| 1+04 RT. | 47 | 208.21 | 208.71 | 212.77 | |
| 1+15 LT. | U | 208.27 | 208.63 | 212.69 | |
| 1+15 LT. | V | 208.27 | 208.57 | 212.63 | |
| 1+48 RT. | 46 | 208.43 | 208.99 | 213.05 | |
| 1+48 RT. | 45 | 208.43 | 208.93 | 212.99 | |

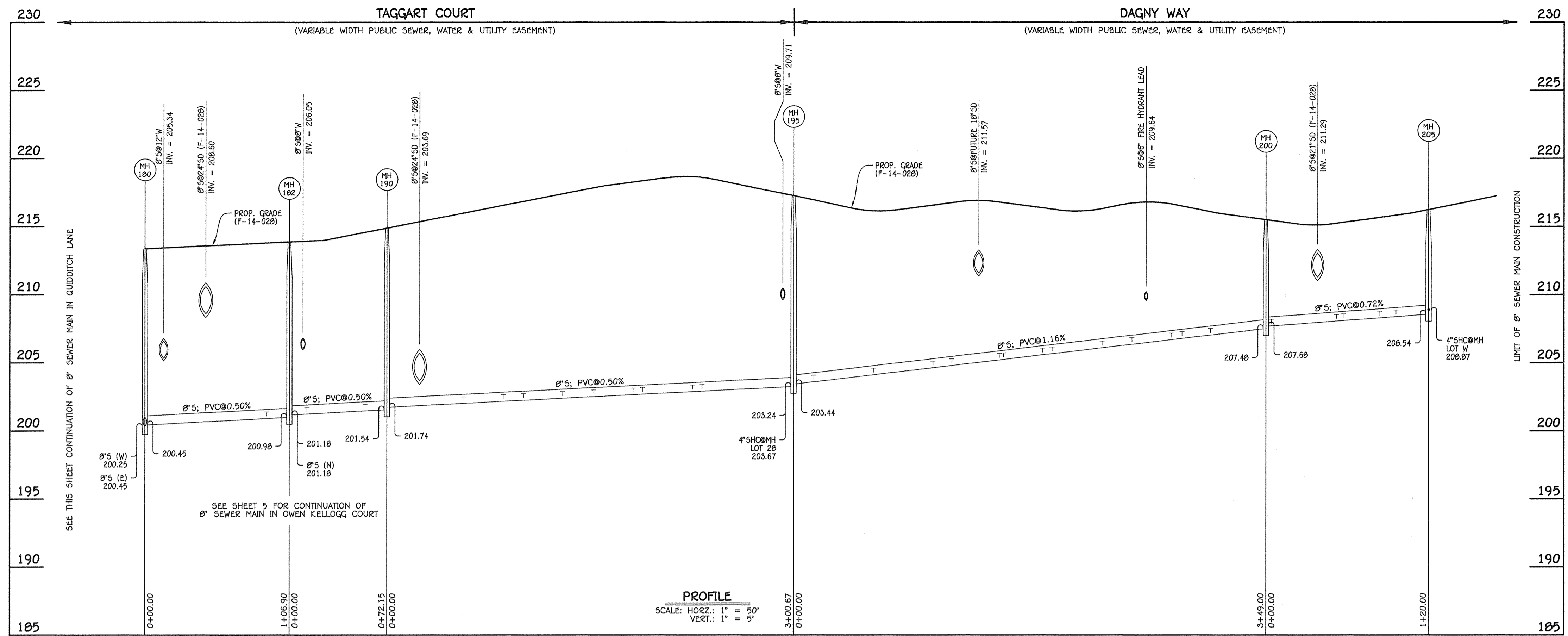
- PECK CONDITIONS/LIMITATIONS**
- PROPOSED PECK SHALL BE A MAXIMUM SIZE OF 8 FEET DEEP.
 - THE FOUNDATION FOR EACH PECK POST SHALL BE A MINIMUM OF 8 FEET FROM ANY WATER METER OR SEWER CLEANOUT, OR PUBLIC WATER/SEWER APPURTENANCE.
 - THE CONSTRUCTION OF ACCESS STEPS, FROM/TO EXTERIOR GRADE, FOR THE PECKS SHALL NOT BE PERMITTED.
 - REFERENCE WAIVER APPROVAL LETTER DATED JUNE 19, 2016.
 - THE WAIVER APPROVAL FOR CONTRACT NO. 14-4777-0 IS LIMITED ONLY TO LOTS 15 THRU 19, LOTS 48 AND 49, LOT 50, LOT 51 & LOT 52 AND A SEPARATE WAIVER SHALL BE REQUIRED FOR PROPOSED PECKS ON EDENHOME GROUNDS/BLUESHIRE WITHIN THE DEVELOPMENT, SHOULD THE PROPOSED PECKS NOT MEET HOWARD COUNTY WATER AND SEWER DESIGN MANUAL, VOLUME II REQUIREMENTS.

TYPICAL PECK: DETAILS & NOTES *

AS-BUILT
By *[Signature]* Date 2/14/17



| | | | | | | | |
|---|---|--|--|--|---|--|----------------|
| DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF, BUREAU OF UTILITIES | DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> 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 7/18/16. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 (410) 481-2929 | #12043 DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: OCTOBER, 2014 | PERMITS SECTION OF 8" SEWER MAIN TO ADJACENT PARCEL AND TYPICAL PECK DETAILS, VIEWS, CONDITIONS & LIMITATIONS | 600' SCALE MAP NO. 43 BLOCK NO. 4 F.C.C. WORK ORDER NO. 07053-3001 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN | MORRIS PLACE LOTS 1-53, OPEN SPACE LOTS 54-61 AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C' WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4777-0 FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND | SCALE AS SHOWN |
| | | | | | | | SHEET 3 OF 9 |



| NO. | NORTHING | EASTING | RIM ELEVATION |
|-----|-----------|------------|---------------|
| 182 | 551690.94 | 1377202.25 | 213.88 |
| 190 | 551745.66 | 1377155.22 | 214.89 |
| 195 | 551998.96 | 1376993.22 | 217.27 |
| 200 | 551810.92 | 1376699.21 | 215.50 |
| 205 | 551746.26 | 1376598.12 | 216.24 |

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

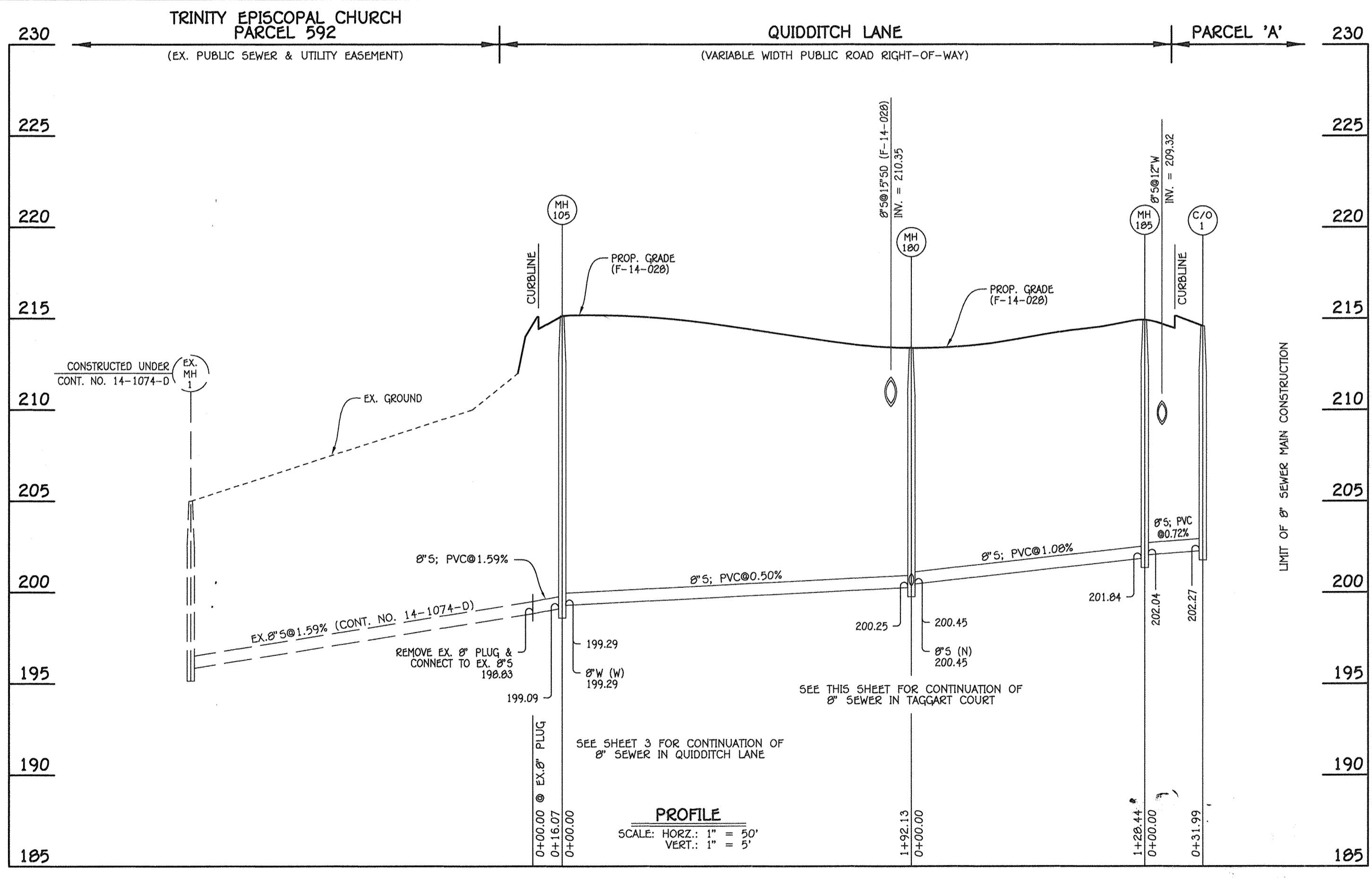
| NO. | NORTHING | EASTING | RIM ELEVATION |
|-------------|-----------|------------|---------------|
| EX. 8" PLUG | 551474.57 | 1377133.83 | ---- |
| 105 | 551487.23 | 1377123.92 | 215.14 |
| 180 | 551609.86 | 1377271.93 | 213.37 |
| 185 | 551698.60 | 1377364.80 | 214.92 |
| C/O 1 | 551721.73 | 1377342.69 | 214.58 |

NOTE: SET MH RIMS FLUSH W/PROPOSED GRADE.

8" SEWER MAIN: TAGGART COURT / DAGNY WAY

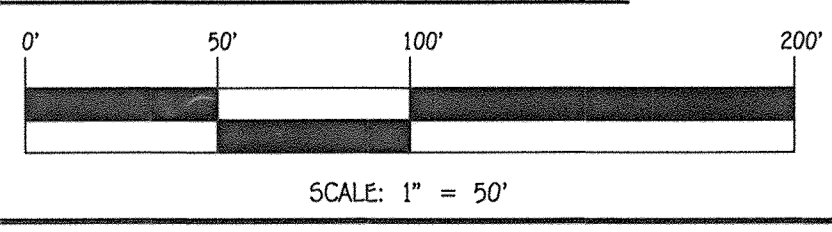
| STATION | LOT | ELEVATION AT MAIN | ELEVATION AT R/W | M.C.E. | SLAB |
|------------------|-----|-------------------|------------------|--------|------|
| MH 180 TO MH 182 | | | | | |
| 0+90 RT. | 14 | 201.07 | 201.57 | 205.63 | |
| MH 182 TO MH 190 | | | | | |
| 0+13 RT. | 13 | 201.33 | 201.84 | 205.90 | |
| 0+13 RT. | 12 | 201.33 | 201.90 | 205.96 | |
| 0+56 RT. | 11 | 201.54 | 202.08 | 206.14 | |
| 0+56 RT. | 10 | 201.54 | 202.14 | 206.20 | |
| MH 190 TO MH 195 | | | | | |
| 0+57 RT. | 9 | 202.11 | 202.61 | 206.67 | |
| 0+57 RT. | 8 | 202.11 | 202.66 | 206.72 | |
| 0+86 LT. | 20 | 202.25 | 202.63 | 206.69 | |
| 0+86 LT. | 21 | 202.25 | 202.55 | 206.61 | |
| 1+01 RT. | 7 | 202.33 | 202.83 | 206.89 | |
| 1+01 RT. | 6 | 202.33 | 202.89 | 206.95 | |
| 1+30 LT. | 22 | 202.47 | 202.85 | 206.91 | |
| 1+30 LT. | 23 | 202.47 | 202.77 | 206.83 | |
| 1+53 RT. | 5 | 202.68 | 203.18 | 207.24 | |
| 1+82 RT. | 4 | 202.73 | 203.23 | 207.29 | |
| 1+82 RT. | 3 | 202.73 | 203.29 | 207.35 | |
| 1+89 LT. | 24 | 202.77 | 203.15 | 207.21 | |
| 1+89 LT. | 25 | 202.77 | 203.07 | 207.13 | |
| 2+26 RT. | 2 | 202.95 | 203.45 | 207.51 | |
| 2+26 RT. | 1 | 202.95 | 203.51 | 207.57 | |
| 2+33 LT. | 26 | 202.99 | 203.37 | 207.43 | |
| 2+33 LT. | 27 | 202.99 | 203.29 | 207.35 | |
| 8" MH 195 RT. | 28 | 203.57 | 203.99 | 207.93 | |

| STATION | LOT | ELEVATION AT MAIN | ELEVATION AT R/W | M.C.E. | SLAB |
|------------------|-----|-------------------|------------------|--------|------|
| MH 195 TO MH 200 | | | | | |
| 0+15 RT. | 29 | 203.69 | 203.99 | 208.05 | |
| 0+15 RT. | 30 | 203.69 | 204.05 | 208.11 | |
| 0+59 RT. | 31 | 204.20 | 204.50 | 208.56 | |
| 0+59 RT. | 32 | 204.20 | 204.56 | 208.62 | |
| 1+03 RT. | 33 | 204.71 | 205.01 | 209.07 | |
| 1+03 RT. | 34 | 204.71 | 205.07 | 209.13 | |
| 1+17 LT. | 40 | 204.88 | 205.38 | 209.44 | |
| 1+17 LT. | 41 | 204.88 | 205.44 | 209.50 | |
| 1+52 LT. | 42 | 205.37 | 205.87 | 209.93 | |
| 1+55 RT. | 35 | 205.41 | 205.71 | 209.77 | |
| 1+84 LT. | 43 | 205.65 | 206.15 | 210.21 | |
| 1+84 LT. | 44 | 205.65 | 206.21 | 210.27 | |
| 1+91 LT. | 36 | 205.74 | 206.10 | 210.16 | |
| 1+91 RT. | 37 | 205.74 | 206.04 | 210.10 | |
| 2+28 RT. | 38 | 206.16 | 206.46 | 210.52 | |
| 2+28 RT. | 39 | 206.16 | 206.52 | 210.58 | |
| 2+50 LT. | E | 206.42 | 206.98 | 211.04 | |
| 2+50 LT. | F | 206.42 | 206.92 | 210.98 | |
| 2+79 RT. | EE | 206.85 | 207.15 | 211.21 | |
| 2+87 LT. | G | 206.85 | 207.35 | 211.41 | |
| 2+87 LT. | H | 206.85 | 207.41 | 211.47 | |
| 3+08 RT. | DD | 207.09 | 207.39 | 211.45 | |
| 3+08 RT. | CC | 207.09 | 207.45 | 211.51 | |
| MH 200 TO MH 205 | | | | | |
| 0+04 RT. | BB | 207.79 | 208.09 | 212.15 | |
| 0+04 RT. | AA | 207.79 | 208.15 | 212.21 | |
| 0+52 LT. | I | 208.13 | 208.63 | 212.69 | |
| 0+52 LT. | J | 208.13 | 208.69 | 212.75 | |
| 0+57 RT. | Z | 208.26 | 208.56 | 212.62 | |
| 0+84 RT. | Y | 208.36 | 208.66 | 212.72 | |
| 0+84 RT. | X | 208.36 | 208.72 | 212.78 | |
| 0+96 LT. | K | 208.45 | 208.95 | 213.01 | |
| 0+96 LT. | L | 208.45 | 209.01 | 213.07 | |
| 8" MH 205 RT. | W | 208.87 | 209.17 | 213.23 | |



AS-BUILT
By *[Signature]* Date 2/18/19

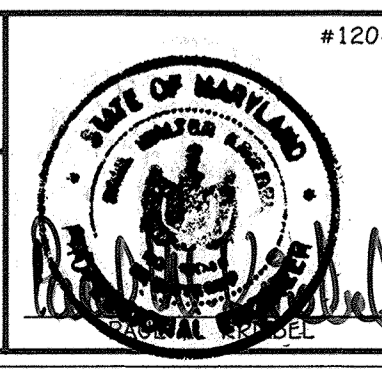
8" SEWER MAIN: QUIDDITCH LANE / OFFICE BUILDING



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. 12043 EXPIRATION DATE IS 7/16/16.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALDWIN NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 481-2999

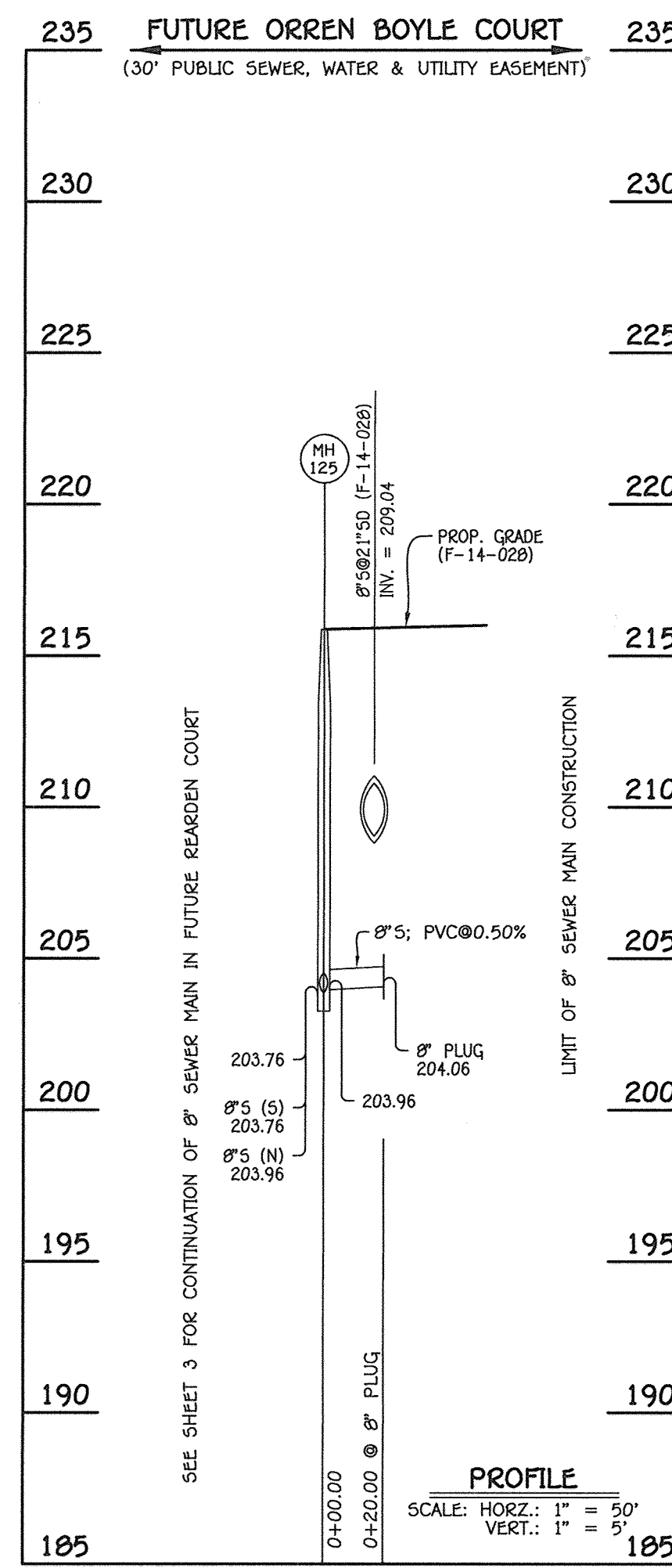


| | |
|--------------|---------------|
| DESIGNED BY: | B.C.R. |
| DRAWN BY: | B.C.R. |
| CHECKED BY: | P.W.K. |
| DATE: | OCTOBER, 2014 |
| BY NO. | |
| REVISION | |

SEWER MAIN EXTENSIONS
PROFILES & CHARTS
60' SCALE MAP NO. 43 BLOCK NO. 4
F.C.C. WORK ORDER NO. 07053-3001
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

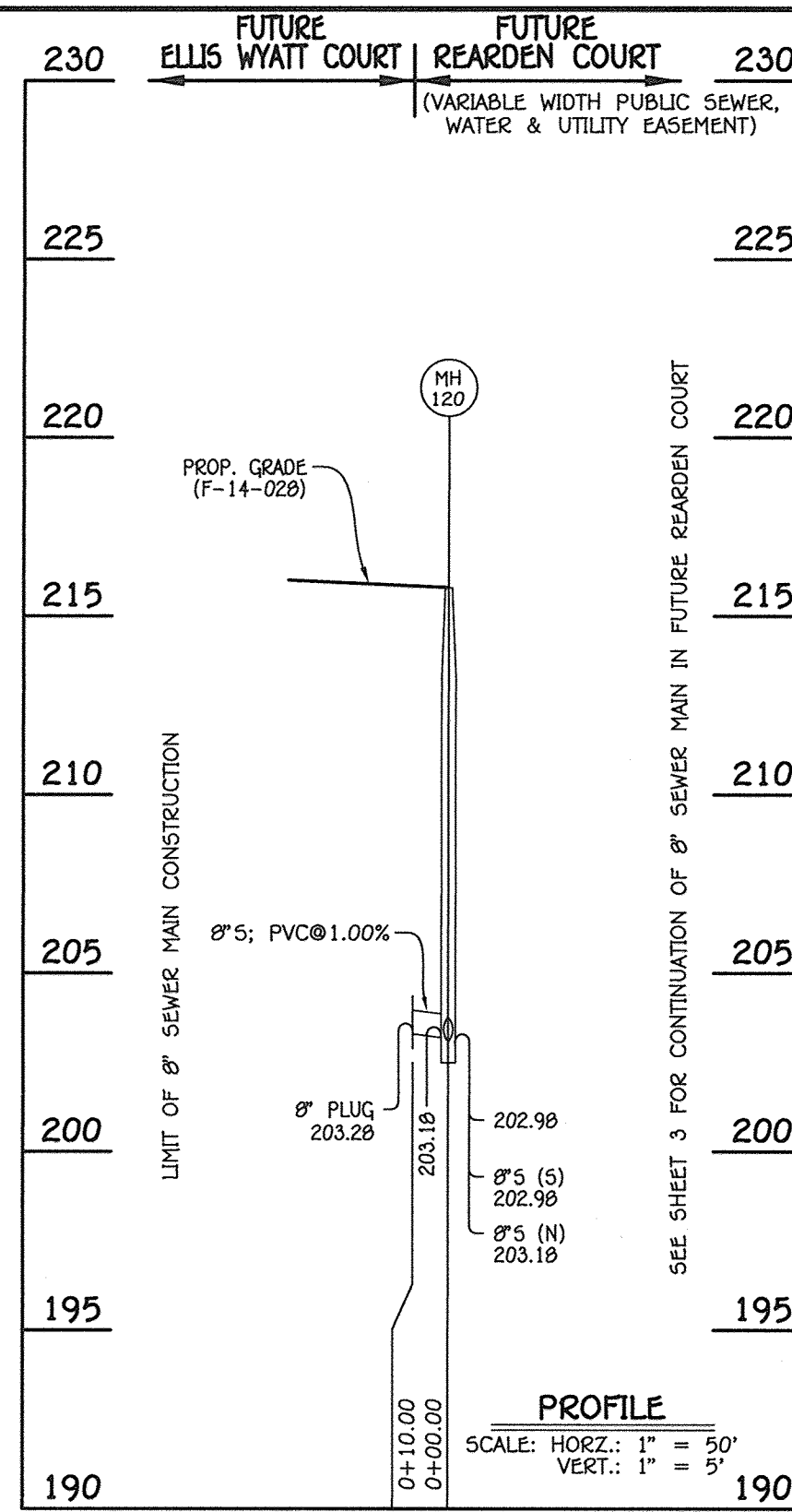
MORRIS PLACE
LOTS 1-53, OPEN SPACE LOTS 54-61
AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4777-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 4 OF 9



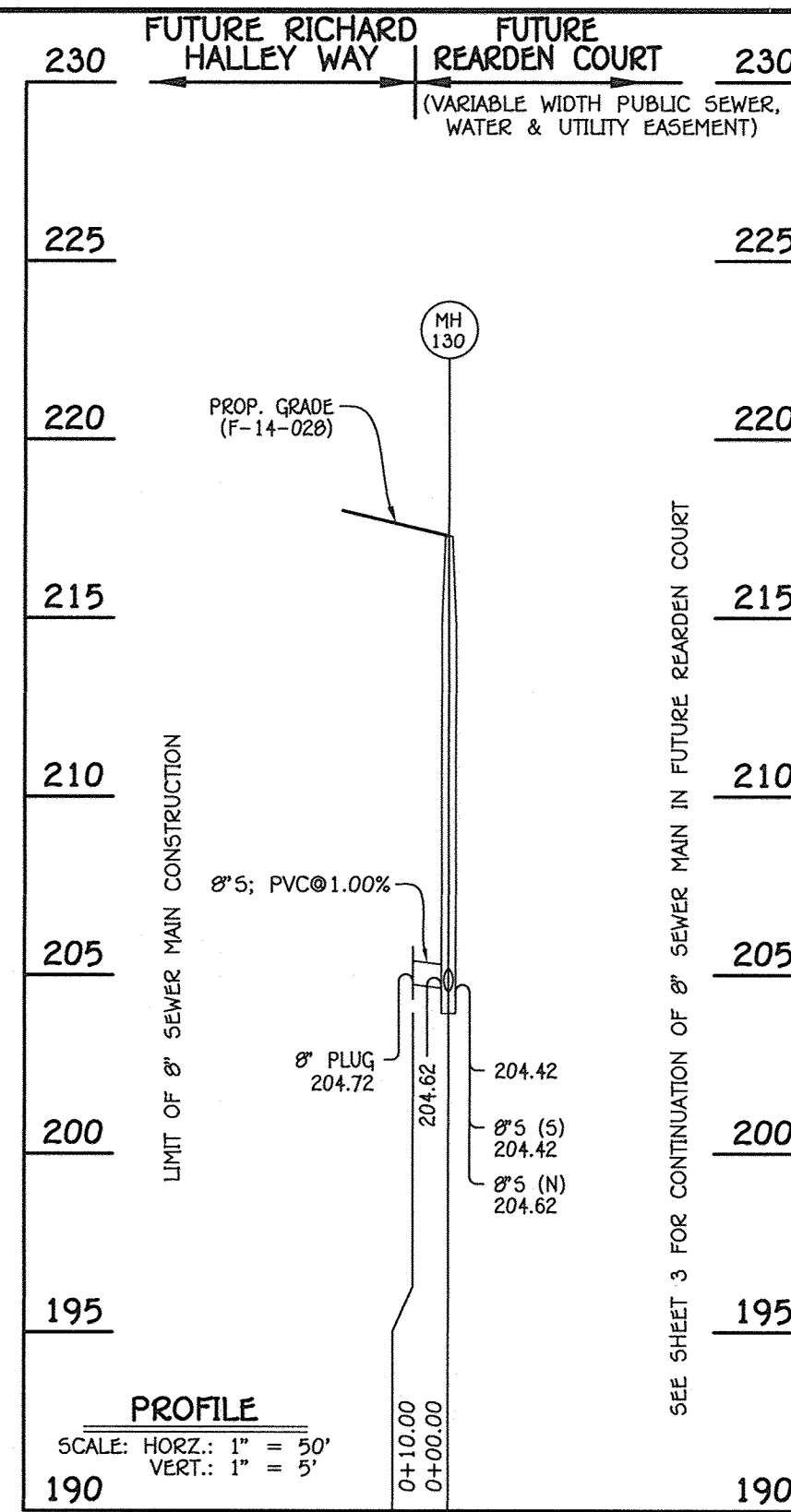
8" SEWER MAIN: FUTURE ORREN BOYLE COURT

| MANHOLE TABULATION CHART | | | |
|--------------------------|-----------|------------|---------------|
| NO. | NORTHING | EASTING | RIM ELEVATION |
| 8" PLUG | 551346.22 | 1376629.13 | --- |



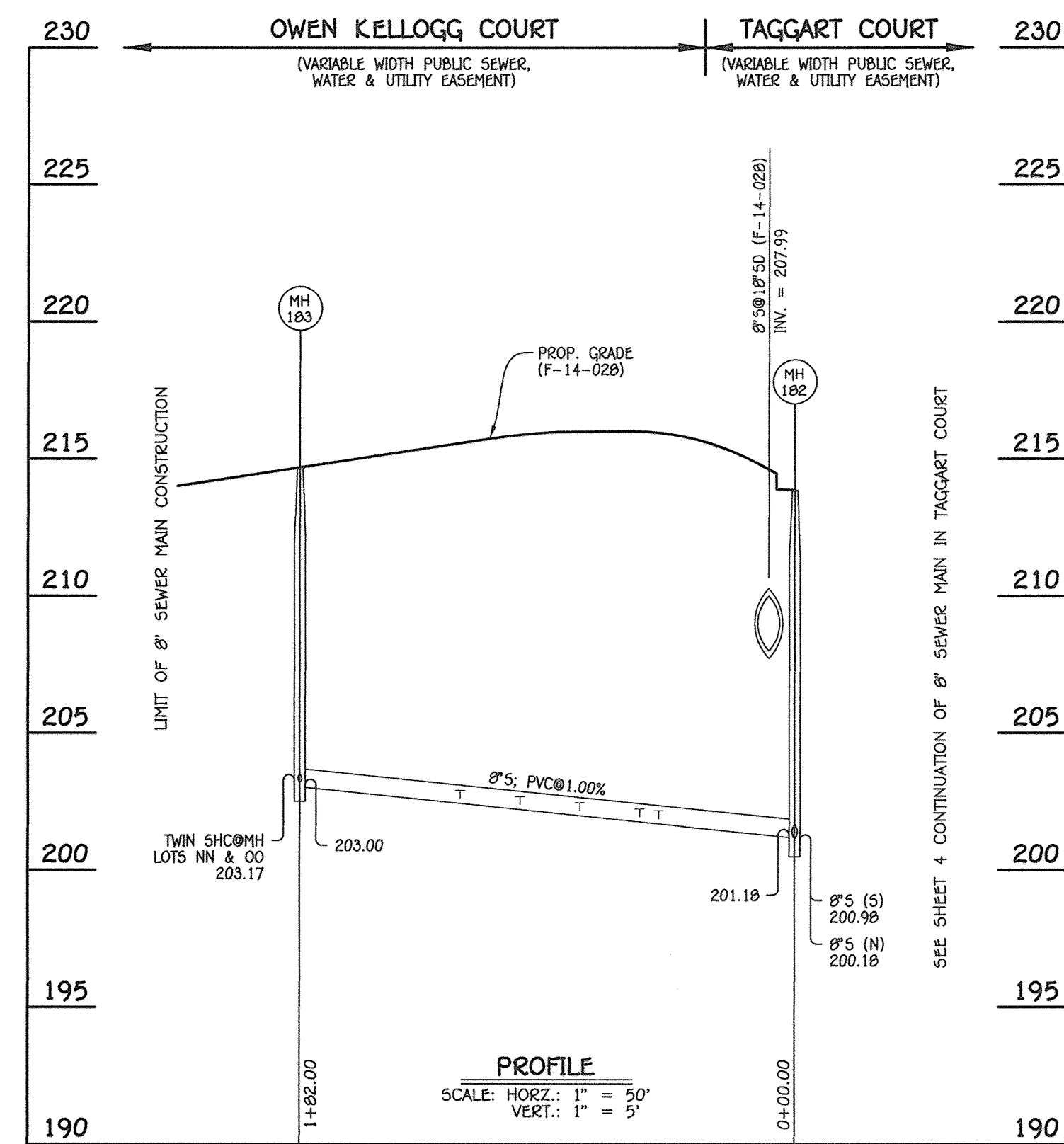
8" SEWER MAIN: FUTURE ELLIS WYATT COURT

| MANHOLE TABULATION CHART | | | |
|--------------------------|-----------|------------|---------------|
| NO. | NORTHING | EASTING | RIM ELEVATION |
| 8" PLUG | 551256.49 | 1376668.04 | --- |



8" SEWER MAIN: FUTURE RICHARD HALLEY WAY

| MANHOLE TABULATION CHART | | | |
|--------------------------|-----------|------------|---------------|
| NO. | NORTHING | EASTING | RIM ELEVATION |
| 8" PLUG | 551396.86 | 1376544.74 | --- |



8" SEWER MAIN: OWEN KELLOGG COURT

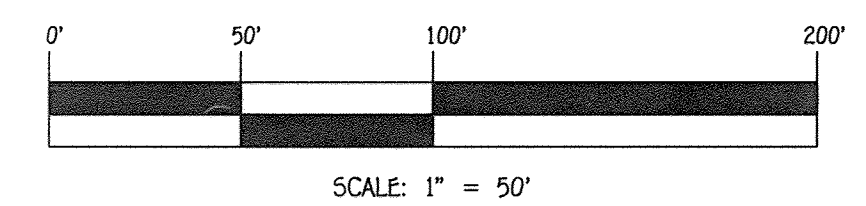
| MANHOLE TABULATION CHART | | | |
|--------------------------|-----------|------------|---------------|
| NO. | NORTHING | EASTING | RIM ELEVATION |
| 183 | 551576.15 | 1377061.02 | 214.68 |

NOTE: SET MH RIM FLUSH W/PROPOSED GRADE.

| SEWER HOUSE CONNECTION CHART | | | | | |
|------------------------------|-----|-------------------|------------------|--------|------|
| STATION | LOT | ELEVATION AT MAIN | ELEVATION AT R/W | M.C.E. | SLAB |
| MH 182 TO MH 183 | | | | | |
| 0+50 LT. | 15 | 201.85 | 202.09 | 206.15 | |
| 0+57 RT. | D | 201.83 | 202.27 | 206.33 | |
| 0+57 RT. | C | 201.83 | 202.33 | 206.39 | |
| 0+79 LT. | 16 | 202.05 | 202.29 | 206.35 | |
| 0+79 LT. | 17 | 202.05 | 202.35 | 206.41 | |
| 1+01 RT. | B | 202.27 | 202.71 | 206.77 | |
| 1+01 RT. | A | 202.27 | 202.77 | 206.83 | |
| 1+23 LT. | 18 | 202.49 | 202.73 | 206.79 | |
| 1+23 LT. | 19 | 202.49 | 202.79 | 206.85 | |
| ⊙MH 183 LT. | NN | 203.17 | 203.41 | 207.47 | |
| ⊙MH 183 LT. | 00 | 203.17 | 203.47 | 207.53 | |

AS-BUILT

By *[Signature]* Date 2/12/19

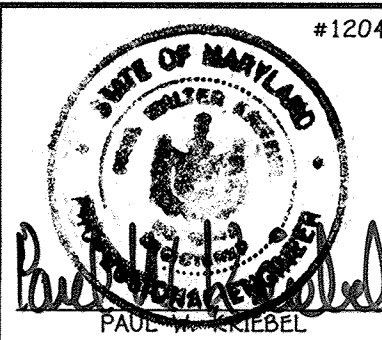


CONTRACT NO. 14-4777-D
MORRIS PLACE
LOTS 1-53, OPEN SPACE LOTS
54-61 AND NON-BUILDABLE BULK
PARCELS 'A' THRU 'C'
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

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
DATE 11-5-14

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
CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL FILE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2999



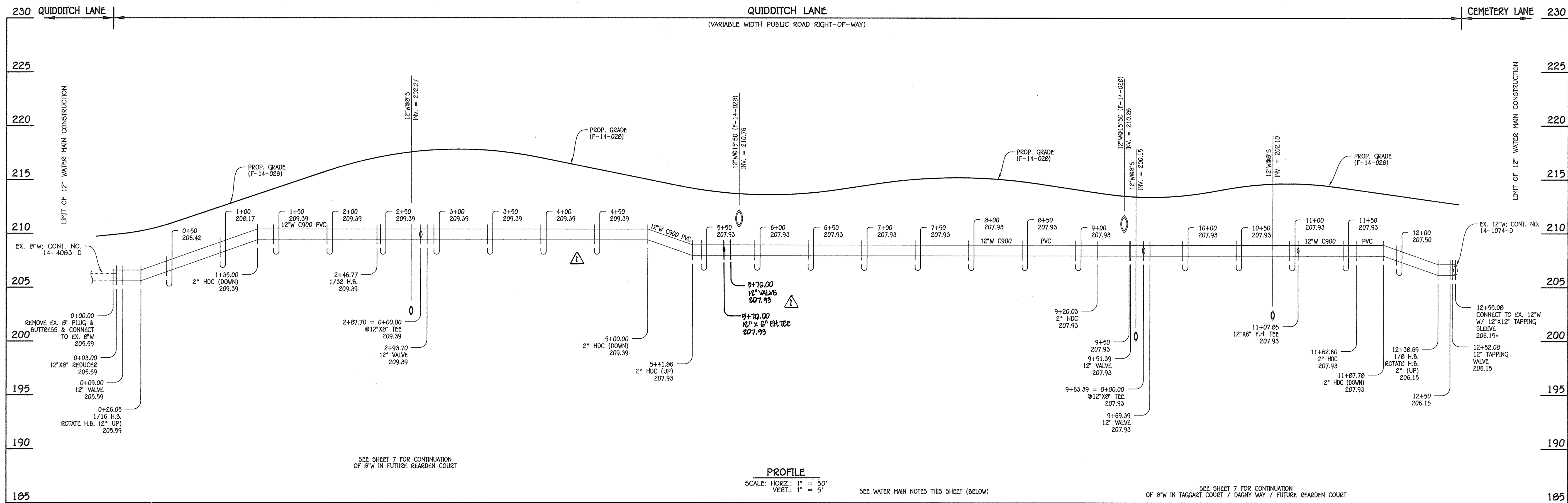
| | |
|--------------|---------------|
| DESIGNED BY: | B.C.R. |
| DRAWN BY: | B.C.R. |
| CHECKED BY: | P.W.K. |
| DATE: | OCTOBER, 2014 |
| BY NO. | |
| REVISION | |
| DATE | |

SEWER MAIN EXTENSIONS
PROFILES & CHARTS
600' SCALE MAP NO. 43 BLOCK NO. 4
F.C.C. WORK ORDER NO. 07053-3001
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

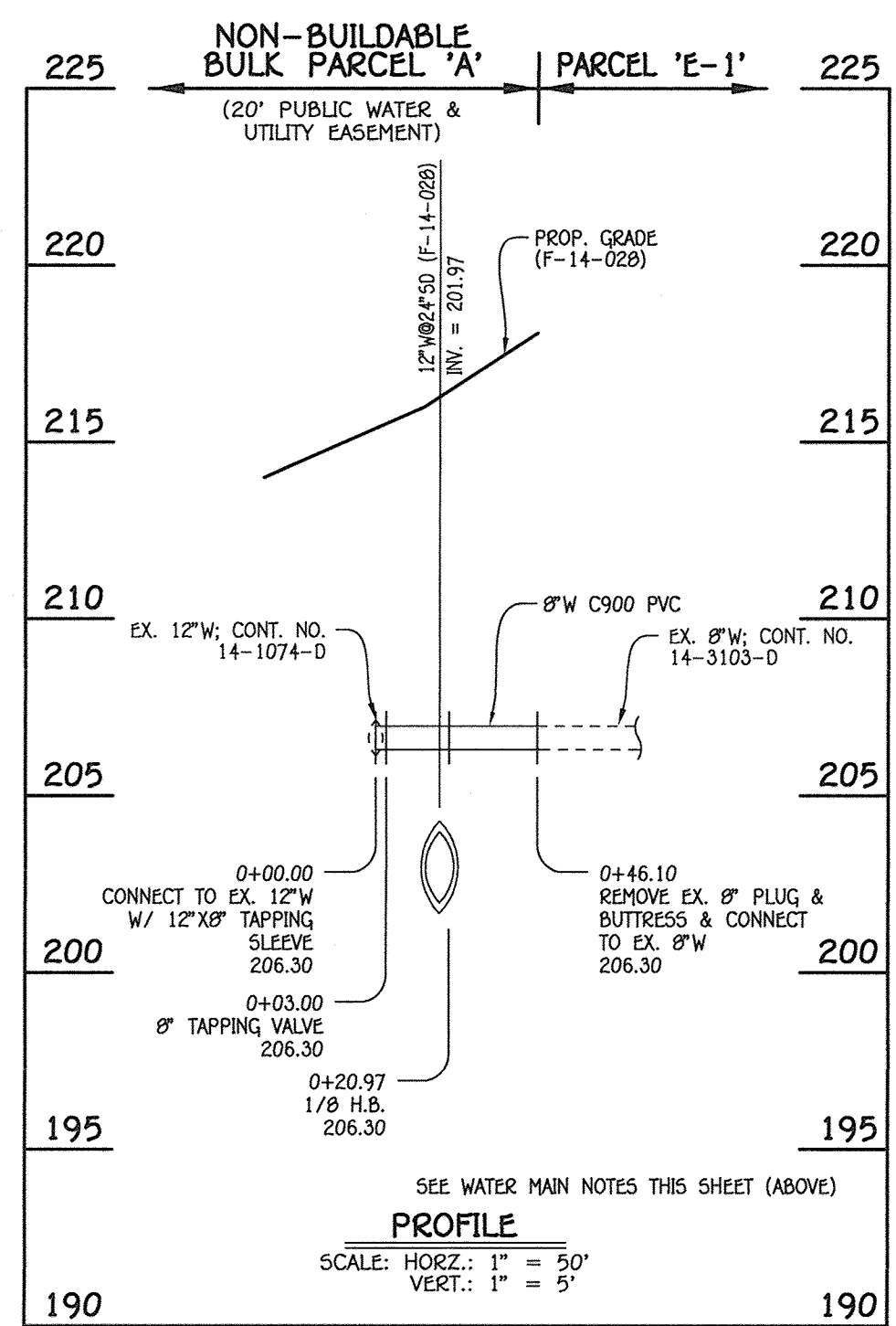
MORRIS PLACE
LOTS 1-53, OPEN SPACE LOTS 54-61
AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4777-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 9

I:\2007\07053.dwg Water & Sewer Contract No. 14-4777-D (F-14-02B) Phase 1\Final Plan\07053-3001 Water & Sewer Contract Plan Final.dwg, 10/9/2014 14:13:13 PM



| WATER MAIN TABULATION CHART | | | |
|--------------------------------|-------------------------|-----------|------------|
| W.M. STA. | APPURTENANCE | NORTHING | EASTING |
| 12" WATER MAIN: QUIDDITCH LANE | | | |
| 0+00.00 | EX. 8" PLUG & BUTTRESS | 550992.24 | 1376547.97 |
| 0+03.00 | 12" X8" REDUCER | 550993.36 | 1376550.75 |
| 0+09.00 | 12" VALVE | 550995.60 | 1376556.32 |
| 0+26.05 | 1/16 H.B. | 551001.97 | 1376572.13 |
| 2+46.77 | 1/32 H.B. | 551171.65 | 1376713.31 |
| 2+87.70 | 12" X8" TEE | 551197.46 | 1376745.08 |
| 2+93.70 | 12" VALVE | 551201.24 | 1376749.73 |
| 9+70.00 | 12" X6" F.H. TEE | 551215.47 | 1376924.17 |
| 9+76.00 | 12" VALVE | 551219.29 | 1376928.89 |
| 9+20.03 | 2" HDC | 551596.20 | 1377235.84 |
| 9+51.39 | 12" VALVE | 551617.07 | 1377259.24 |
| 9+63.39 | 12" X8" TEE | 551625.06 | 1377268.19 |
| 9+69.39 | 12" VALVE | 551629.06 | 1377272.67 |
| 11+07.85 | 12" X6" F.H. TEE | 551721.23 | 1377375.98 |
| 11+62.60 | 2" HDC | 551757.63 | 1377416.84 |
| 12+38.69 | 1/8 H.B. | 551805.36 | 1377476.13 |
| 12+52.08 | 12" TAPPING VALVE | 551818.69 | 1377477.56 |
| 12+55.08 | 12" X12" TAPPING SLEEVE | 551821.67 | 1377477.88 |



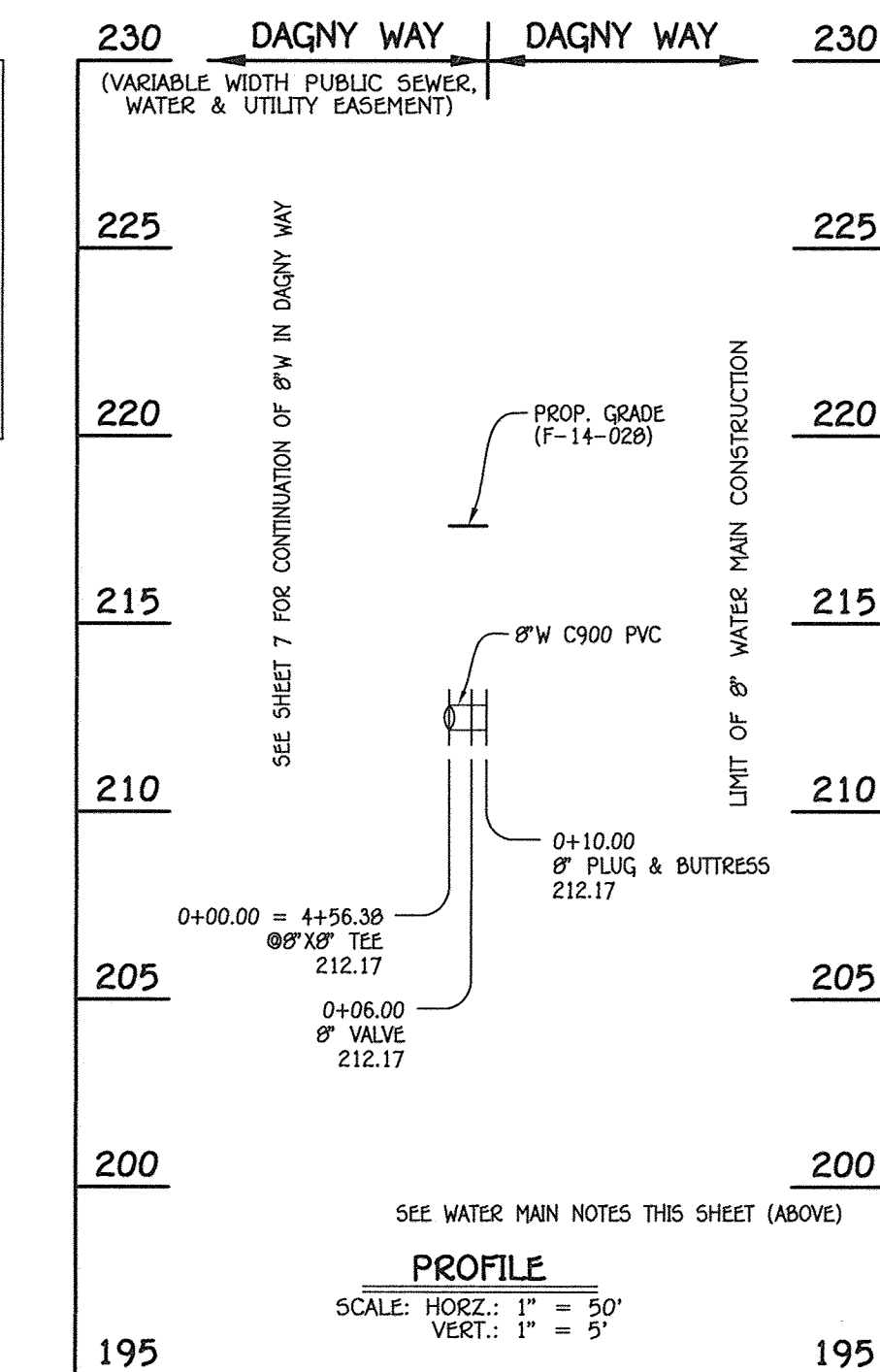
8" WATER MAIN: TO PARCEL 'E-1'

12" WATER MAIN: QUIDDITCH LANE

| WATER MAIN TABULATION CHART | | | |
|---------------------------------|--------------------|-----------|------------|
| W.M. STA. | APPURTENANCE | NORTHING | EASTING |
| 8" WATER MAIN: DAGNY WAY (EAST) | | | |
| 0+00.00 | 8" X8" TEE | 551997.61 | 1377005.96 |
| 0+06.00 | 8" VALVE | 552000.84 | 1377011.01 |
| 0+10.00 | 8" PLUG & BUTTRESS | 552002.99 | 1377014.38 |

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

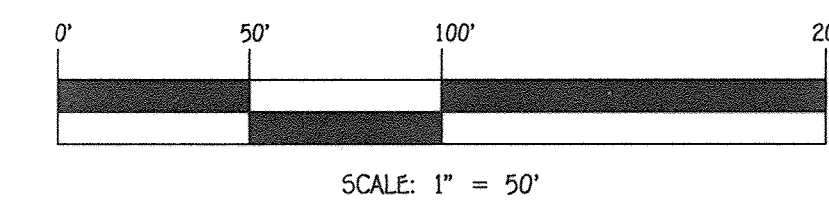
| WATER MAIN TABULATION CHART | | | |
|--------------------------------|------------------------|-----------|------------|
| W.M. STA. | APPURTENANCE | NORTHING | EASTING |
| 8" WATER MAIN: TO PARCEL 'E-1' | | | |
| 0+00.00 | 12" X8" TAPPING SLEEVE | 551866.98 | 1377400.72 |
| 0+03.00 | 8" TAPPING VALVE | 551869.23 | 1377402.71 |
| 0+20.97 | 1/8 H.B. | 551882.68 | 1377414.63 |
| 0+46.10 | EX. 8" PLUG & BUTTRESS | 551907.79 | 1377413.73 |



8" WATER MAIN: DAGNY WAY (EAST)

AS-BUILT

By *[Signature]* Date 2/12/19

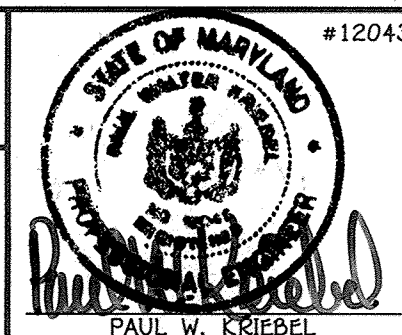


DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

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. 12043 EXPIRATION DATE IS 7/16/16.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL Pkwy
ELLIOTT CITY, MARYLAND 21042
(410) 461-2895



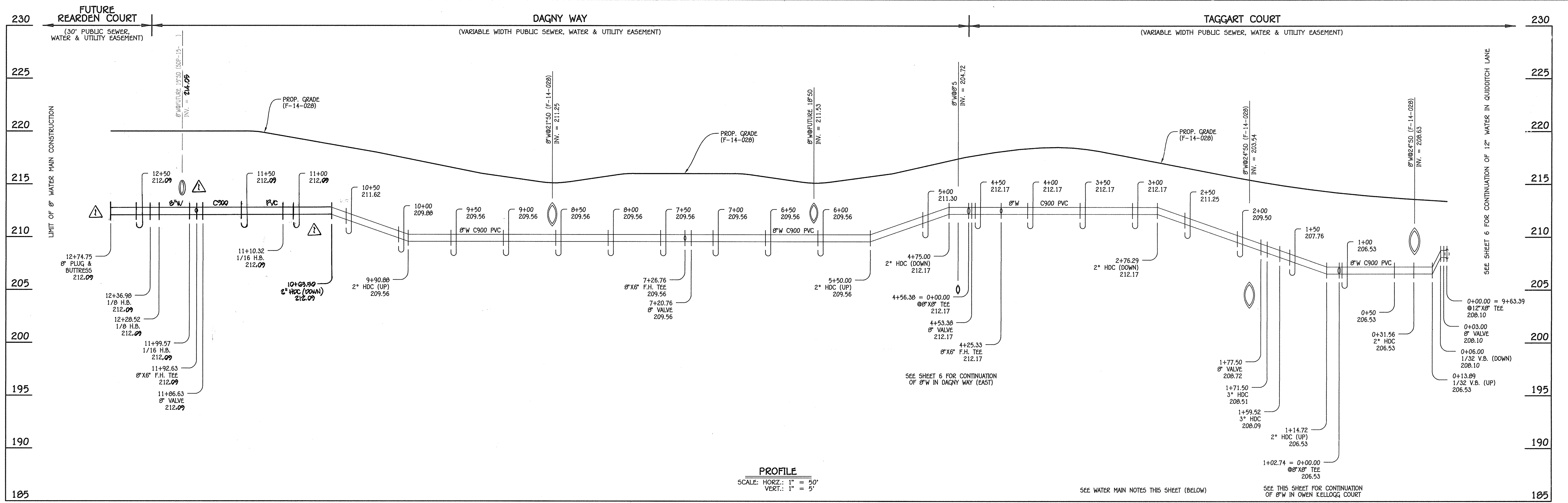
DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: OCTOBER, 2014
BY NO. 6/20/16
RELOCATE FIRE HYDRANT INSTALLATION ALONG QUIDDITCH LANE

WATER MAIN EXTENSIONS
PROFILES & CHARTS

600' SCALE MAP NO. 43 BLOCK NO. 4
F.C.C. WORK ORDER NO. 07053-3001
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

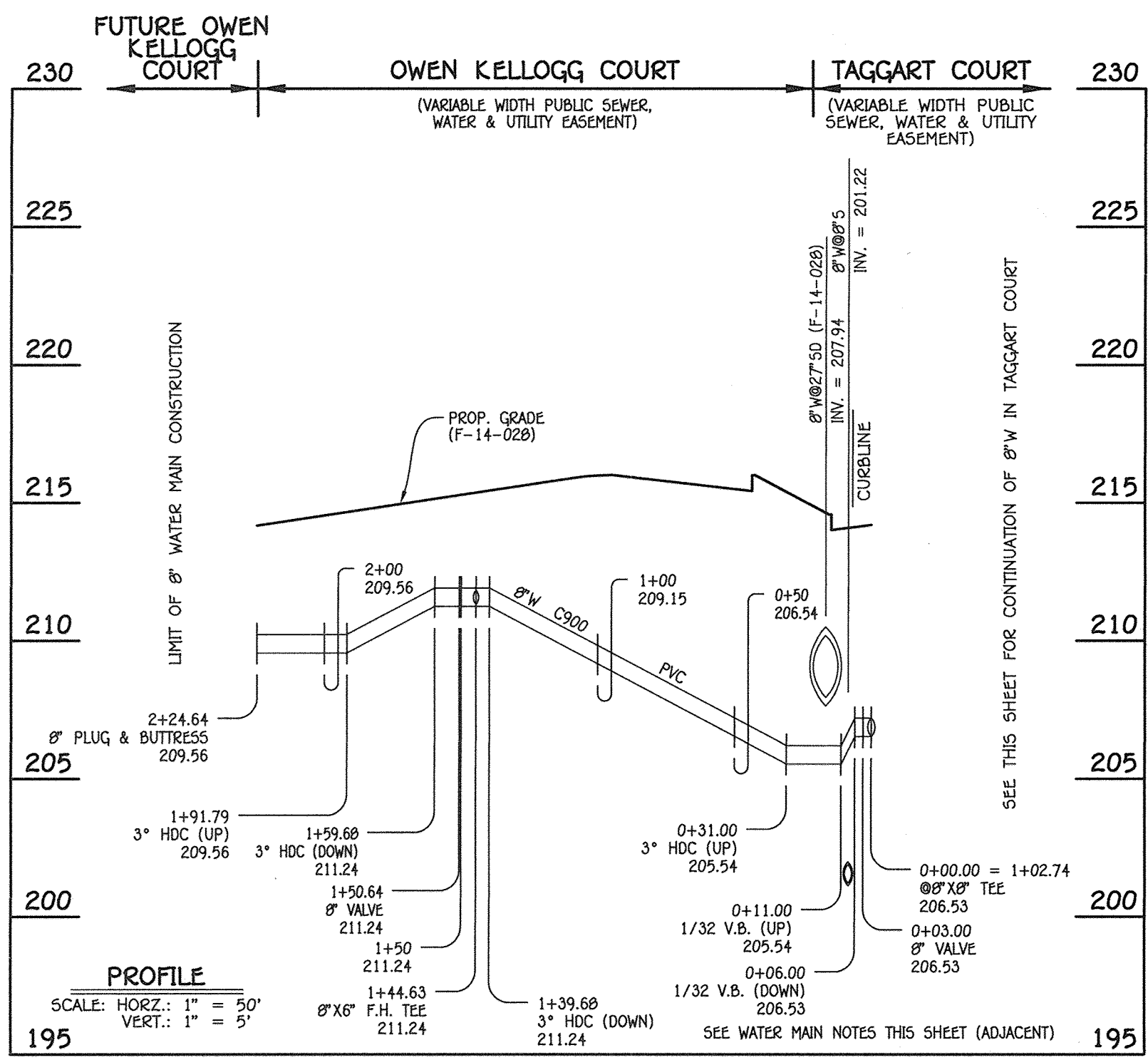
MORRIS PLACE
LOTS 1-53, OPEN SPACE LOTS 54-61
AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4777-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 6 OF 9



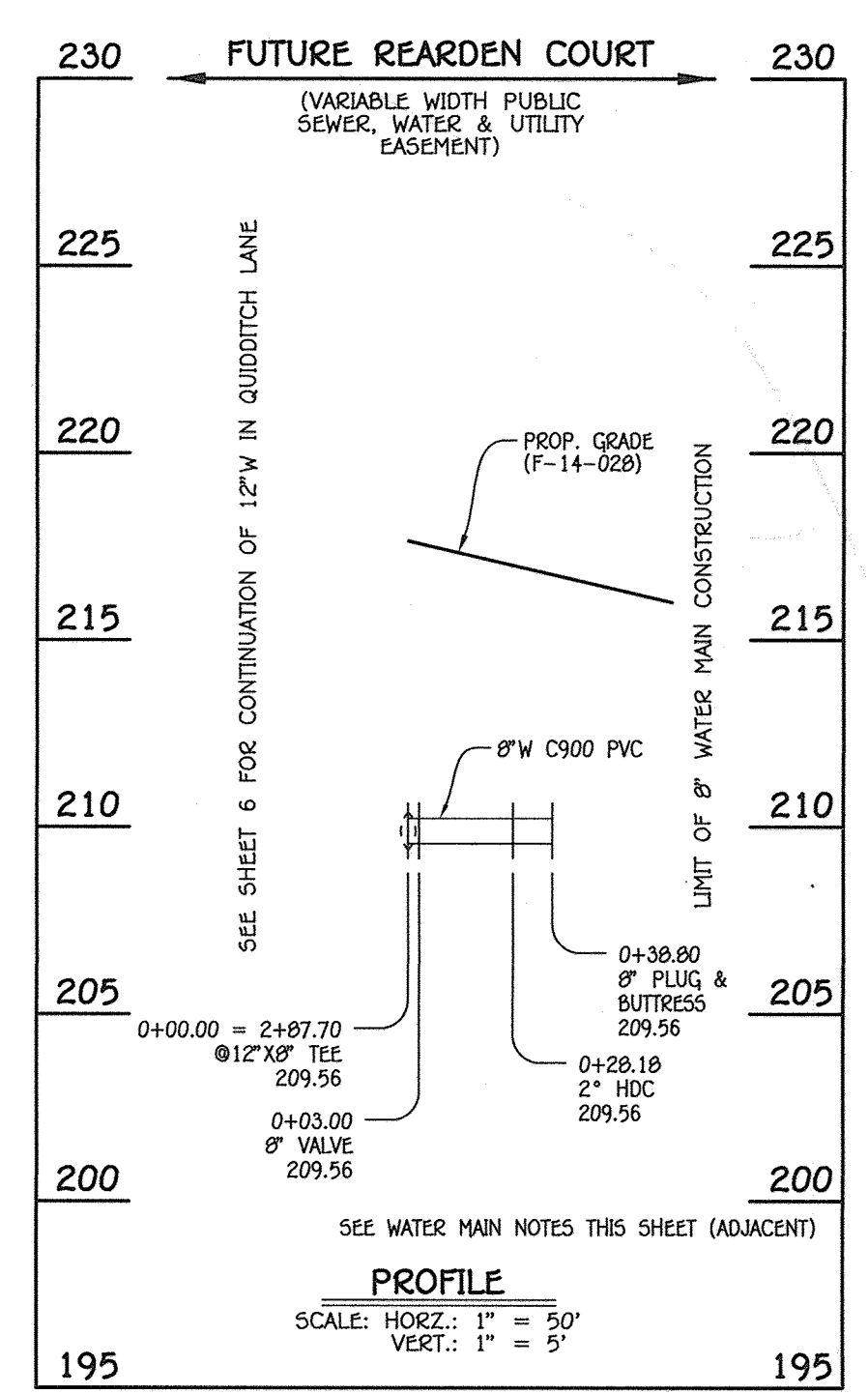
8" WATER MAIN: TAGGART COURT / DAGNY WAY / FUTURE REARDEN COURT

| WATER MAIN TABULATION CHART | | | |
|---|--------------------|-----------|------------|
| W.M. STA. | APPURTENANCE | NORTHING | EASTING |
| 8" WATER MAIN: TAGGART COURT / DAGNY WAY / FUTURE REARDEN COURT | | | |
| 0+00.00 | 12" X8" TEE | 551625.06 | 1377268.19 |
| 0+03.00 | 8" VALVE | 551627.30 | 1377266.19 |
| 0+31.56 | 2" HDC | 551648.61 | 1377247.18 |
| 1+02.74 | 8" X8" TEE | 551703.85 | 1377202.28 |
| 1+59.52 | 3" HDC | 551747.90 | 1377166.47 |
| 1+71.50 | 3" HDC | 551757.61 | 1377159.45 |
| 1+77.50 | 8" VALVE | 551762.67 | 1377156.22 |
| 4+25.33 | 8" X6" F.H. TEE | 551971.45 | 1377022.60 |
| 4+53.38 | 8" VALVE | 551995.08 | 1377007.57 |
| 4+56.38 | 8" X8" TEE | 551997.60 | 1377005.96 |
| 7+20.76 | 8" VALVE | 551855.15 | 1376783.23 |
| 7+26.76 | 8" X6" F.H. TEE | 551851.92 | 1376778.17 |
| 11+10.32 | 1/16 H.B. | 551645.26 | 1376455.05 |
| 11+86.63 | 8" VALVE | 551585.79 | 1376407.23 |
| 11+92.63 | 8" X6" F.H. TEE | 551581.11 | 1376403.47 |
| 11+99.57 | 1/16 H.B. | 551575.71 | 1376399.12 |
| 12+28.52 | 1/8 H.B. | 551548.66 | 1376388.79 |
| 12+36.98 | 1/8 H.B. | 551540.95 | 1376392.27 |
| 12+74.75 | 8" PLUG & BUTTRESS | 551527.70 | 1376427.64 |



8" WATER MAIN: OWEN KELLOGG COURT

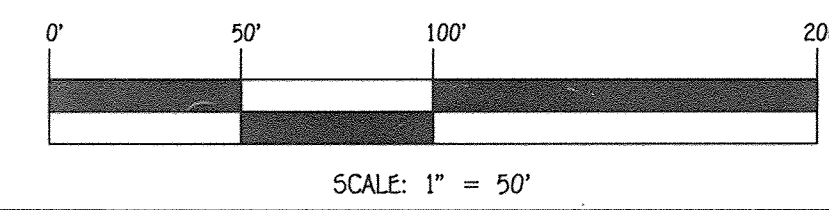
| WATER MAIN TABULATION CHART | | | |
|-----------------------------------|--------------------|-----------|------------|
| W.M. STA. | APPURTENANCE | NORTHING | EASTING |
| 8" WATER MAIN: OWEN KELLOGG COURT | | | |
| 0+00.00 | 8" X8" TEE | 551703.85 | 1377202.28 |
| 0+03.00 | 8" VALVE | 551701.96 | 1377199.95 |
| 1+44.63 | 8" X6" F.H. TEE | 551612.62 | 1377090.04 |
| 1+50.64 | 8" VALVE | 551608.84 | 1377085.39 |
| 2+24.64 | 8" PLUG & BUTTRESS | 551562.16 | 1377027.96 |



8" WATER MAIN: FUTURE REARDEN COURT

| WATER MAIN TABULATION CHART | | | |
|-------------------------------------|--------------------|-----------|------------|
| W.M. STA. | APPURTENANCE | NORTHING | EASTING |
| 8" WATER MAIN: FUTURE REARDEN COURT | | | |
| 0+00.00 | 12" X8" TEE | 551197.46 | 1376745.08 |
| 0+03.00 | 8" VALVE | 551199.79 | 1376743.18 |
| 0+28.18 | 2" HDC | 551219.33 | 1376727.31 |
| 0+38.80 | 8" PLUG & BUTTRESS | 551227.31 | 1376720.29 |

- 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.



AS-BUILT
By *JCM* Date *2/12/19*

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
[Signature]
DATE: *10/22/14*

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature]
DATE: *11-5-14*

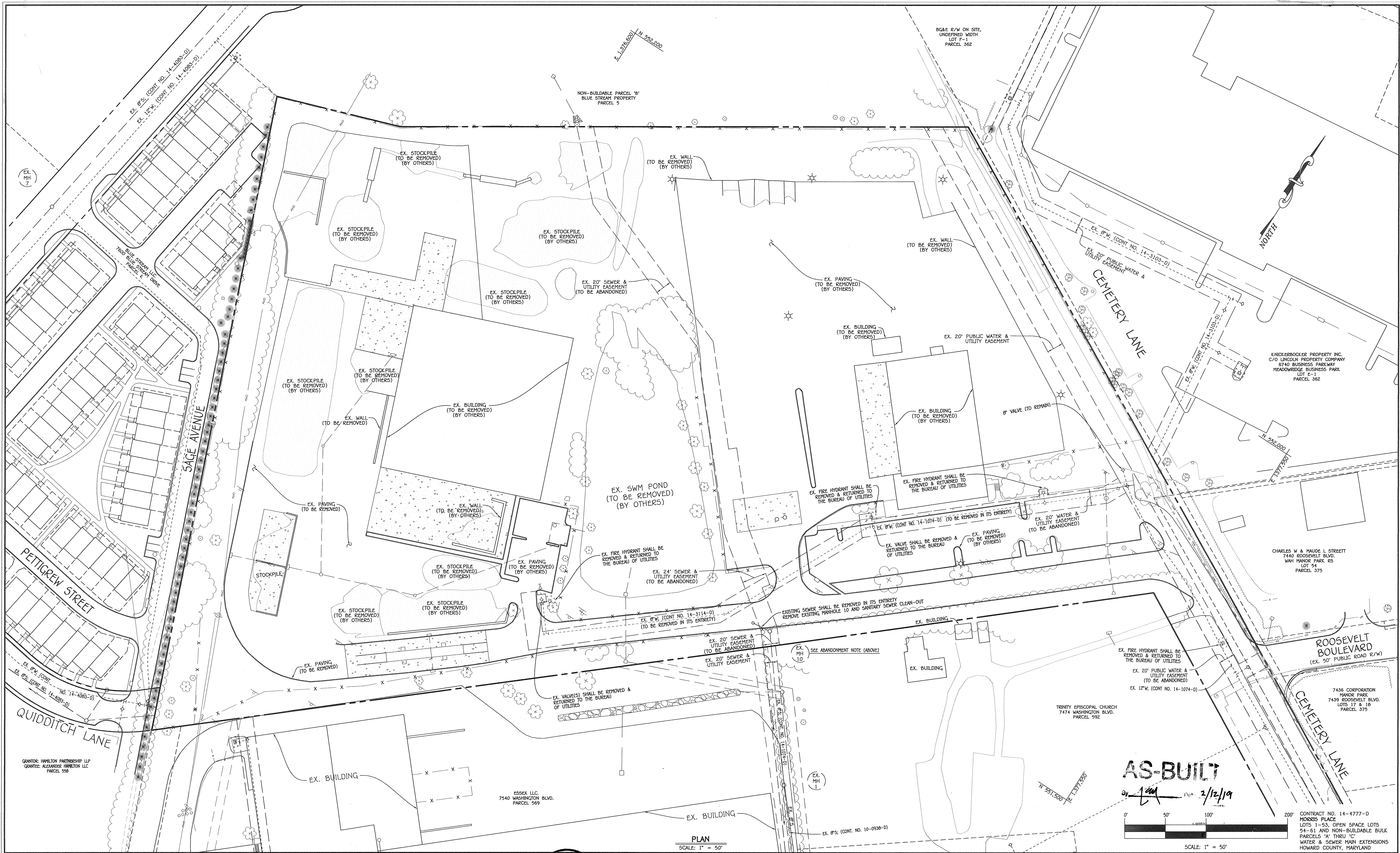
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 12043 EXPIRATION DATE IS 7/16/16.
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 21042
(410) 461 - 2955



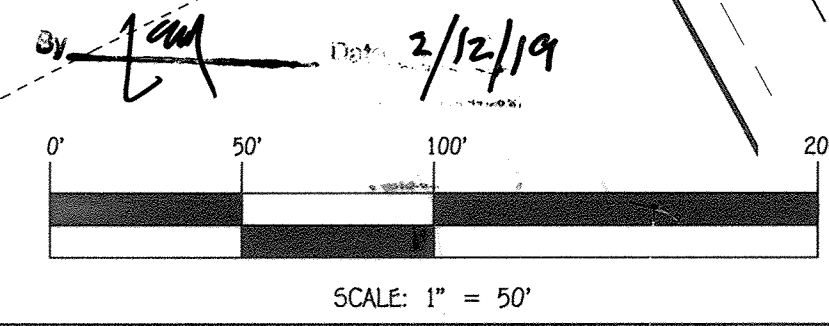
DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: OCTOBER, 2014
BY: *[Signature]*
NO. _____
REVISION _____

WATER MAIN EXTENSIONS PROFILES & CHARTS
600' SCALE MAP NO. 43 BLOCK NO. 4
F.C.C. WORK ORDER NO. 07053-3001
FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

MORRIS PLACE
LOTS 1-53, OPEN SPACE LOTS 54-61 AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4777-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 7 OF 9



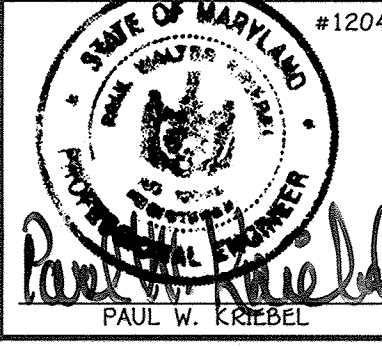
AS-BUILT
 2/12/19



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 CHIEF, BUREAU OF UTILITIES

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

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 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL Pk.
 ELLICOTT CITY, MARYLAND 21042
 (410) 461-2999



| | |
|--------------|---------------|
| DESIGNED BY: | B.C.R. |
| DRAWN BY: | B.C.R. |
| CHECKED BY: | P.W.K. |
| DATE: | OCTOBER, 2014 |
| BY NO. | |
| REVISION | |

EXISTING WATER & SEWER FACILITIES ABANDONMENT PLAN
 600' SCALE MAP NO. 43 BLOCK NO. 4
 F.C.C. WORK ORDER NO. 07053-3001
 FILE NAME: WATER & SEWER MAIN EXTENSION PLAN

MORRIS PLACE
 LOTS 1-53, OPEN SPACE LOTS 54-61
 AND NON-BUILDABLE BULK PARCELS 'A' THRU 'C'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4777-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 9 OF 9

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