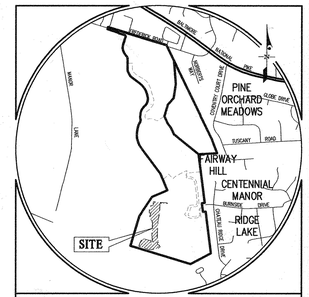
QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT QUANTITIES	AS-BUILT TYPE	AS-BUILT MANUFACTURER/ SUPPLIER
6" DIP (FH LEADS)	33 L.F.			
6" PVC WATER MAIN (C-900 DR-18)	232 L.F.			
8" PVC WATER MAIN (C-900 DR-18)	1580 L.F.			
1-1/2" WHC	686 L.F.			
1" METER VAULT	30 EA.			
8"x8" TEE	4 EA.			
8"x6" FHT	4 EA.			
FIRE HYDRANTS	4 EA.			
8" 1/32 HB	19 EA.			
8"x 6" REDUCER	1 EA.			
8" 1" HDC	1 EA.			
1 8" 1.5" HDC	3 EA.			
8" 2" HDC	7 EA.			
1 8" 2.5" HDC	1 EA.			
8" VALVE	9 EA.			
6" 1/16 HB	1 EA.			
6" 1/32 HB	1 EA.			
6" 1/32 VB	1 EA.			
1 6" 2.5" HDC	1 EA.			
BLOW-OFF VALVE	1 EA.			
1 8" PVC SEWER MAIN (SDR 35 PVC)	102 L.F.			
1 8" DIP SEWER MAIN (CL. 52 DIP)	1023 L.F.			
4' MANHOLES	21 EA.			
4" SHC	700 L.F.			
4" CLEANOUT	30 EA.			

NAME OF UTILITY CONTRACTOR:

SURVEY AND DRAFTING DIV. CHECKBOX:..... AS-BUILT DATE:....

TYPE OF BUILDING	RESIDENTIAL
NUMBER OF UNITS	30
NUMBER OF S.H.C.'s	30
NUMBER OF W.H.C.'s	30
AREA OF COMMERCIAL LOT/PARCEL	0.0 AC.
SEWER SHED	Route 108
TREATMENT PLANT	LITTLE PATUXENT WATER RECLAMATION PLANT

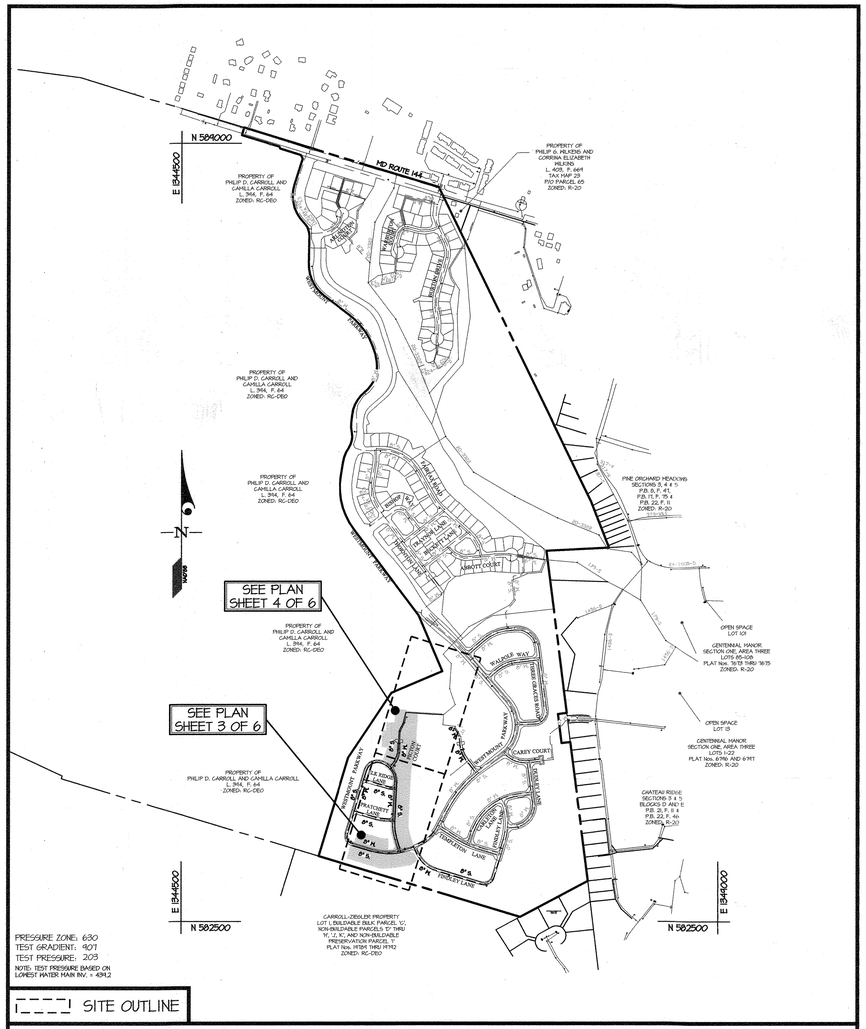


VICINITY MAP
SCALE: 1" = 2,000'

BENCHMARKS

16HC: NORTHING: 584,180.909 EASTING: 1,341,530.147
16HD: NORTHING: 580,614.771 EASTING: 1,340,043.586

ADC MAP COORDINATES: MAP 4814 GRID J5 THRU J8 GRID K5 THRU K8

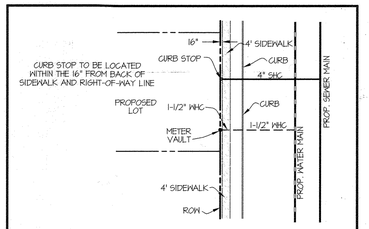


LOCATION PLAN SCALE: 1"=600'

GRAPHIC SCALE
0 300 600 1200

LEGEND

- METER (OUTSIDE SETTING) — WATER HOUSE CONNECTION
- 8"W — WATER LINE (PUBLIC- per seperate contract)
- WATER LINE (PUBLIC-per this contract)
- FIRE HYDRANT (FH) — PUBLIC WATER EASEMENT
- CLEAN OUT — SEWER HOUSE CONNECTION
- 8"S — SEWER LINE (PUBLIC- per seperate contract)
- SEWER LINE (PUBLIC-per this contract)
- PUBLIC SEWER EASEMENT
- PROPOSED STORM DRAIN (per F-PLAN)
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- FUTURE STORM DRAIN
- FUTURE PROPERTY LINE
- SB — STREAM BUFFER
- WB — WETLAND BUFFER
- WETLAND AREA
- FCE — FOREST CONSERVATION EASEMENT
- FP — FLOOD PLAIN LIMITS
- EC — ELECTRIC CONDUIT



SERVICE CONNECTION DETAIL N.T.S.

SHEET INDEX

1. COVER SHEET
2. PHASING KEY MAP
3. WATER AND SEWER PLAN (1"=50')
4. WATER AND SEWER PLAN (1"=50')
5. WATER AND SEWER PROFILES
6. WATER AND SEWER PROFILES, MINIMUM CELLAR ELEVATIONS AND AS-BUILT INFORMATION

GENERAL NOTES

Part I

1. 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.
2. Topographic field surveys were performed on March, 1997 by 3D1 and then updated by grade checks performed by Gutschick, Little & Weber, PA and based on F 13-008'. The boundary information is based upon a field survey prepared by Gutschick, Little & Weber, PA on or about June, 2001.
3. 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. 46BC and No. 41EA.
   All vertical controls are based on NAVD '88. Vertical controls provided on the drawings are standard discs on concrete monuments.
4. All pipe elevations shown are invert elevations unless otherwise noted on the plans.
5. 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 the bracing of additional poles, any cost incurred by the owner for the bracing of 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.
6. For details not shown on the drawing, 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.
7. Where test pits have been made on existing utilities, they are noted by the symbol ⊕ at the locations of the test pits. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
8. 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 (Construction Services) 410-637-8113
   BGE (Emergency) 410-685-0123
   Bureau of Utilities 410-313-4900
   Colonial Pipeline Co 410-715-1340
   Miss Utility 1-800-257-7777
   State Highway Administration 410-531-5533
   Verizon 1-800-743-0033
9. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
10. The 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 construction of the main.
11. 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 II WATER

1. All water mains shall be D.I.P. Class 54 unless otherwise noted.
2. Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.
3. Valves adjacent to tees shall be strapped to tees.
4. All fittings shall be buttressed or anchored with concrete in accordance with Standard Details unless otherwise provided for on the drawings.
5. 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 10.100 and Section 10.05 of the Standard Specifications.
6. The contractor shall not operate any water main valves on the existing water system.
7. Tracer wires and continuity test stations shall be installed on all DIP and PVC water mains in accordance with the Howard County Design Manual.
8. 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.
9. Unless otherwise noted on the plans or in the specifications 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. Seventeen (17) pound Magnesium anodes shall be installed on all valves and ductile iron fittings including restraints and harnesses. Twelve (12) pound 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.
10. 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.
11. 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. The contractor shall use a vibratory plate compactor or other approved means to thoroughly compact the #57 stone on both sides 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 deflection of 3-degrees (1¼-degree on either end of the coupling), shall be rated for a minimum 200 psi meeting the requirements of AWWA C900, shall have a minimum lay length of 9-inches and shall have center stops. PVC High deflection couplings shall be CertainTeed PVC High Deflection (HD) Stop Couplings or equal. Five degree sweeps shall be bell by spigot, rated for a minimum 225 psi, DR18 meeting the requirements of AWWA C900 and shall be Multi Fittings (Ipex) Blue Brute DR18 or equal.
12. When PVC high deflection couplings or PVC 5-degree sweeps are used to facilitate changes in horizontal or vertical alignments of AWWA C-900 PVC pipelines, the contractor shall install 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.
13. Per the Fire Sprinkler Code all residential single family dwellings will have a minimum 1-1/2" WHC with 1" meter, outside setting.

Part III SEWER

1. All sewer mains shall be D.I.P. or P.V.C. unless otherwise noted.
2. All manholes shall be 4'-0" inside diameter unless otherwise noted.
3. Force mains shall be D.I.P. only.
4. Manholes shown with 12" and 16" walls are for brick manholes only.
5. Manholes designated W.T. in plan and profile shall have watertight frame and cover, Standard Detail 65.52. Where watertight manhole frames and covers are used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
6. House(s) with the symbol "G.N.S." indicates that the cellar cannot be served.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH F-21-032, SECTION 308 OF THE SPECIFICATIONS AT FINAL ROAD PLAN STAGE.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

SIGNATURE DATE
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

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

APPROVED: 11/08/21
HOWARD S.C.D. DATE

OWNER/DEVELOPER
WESTMOUNT DEVELOPMENT CORP.
307 INTERNATIONAL CIRCLE
SUITE 130
HUNT VALLEY, MD 21030
410-484-4489
ATTN: ROBERT GOODIER

CONTRACT No. 24-5177-D

WESTMOUNT

PHASE 4C

LOTS 308-314, 327-345 & 375-378, OPEN SPACE LOTS 400 & 405-407

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

NOTE: CONTRACTS 20-5167-D (WESTMOUNT - PHASE 3B) AND 24-5176-D (WESTMOUNT - PHASE 4B) MUST BE PLACED IN-SERVICE TO ALLOW THIS CONTRACT TO BE PLACED IN-SERVICE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
10-25-21
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
11-22-21
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY: HKJ
DRAWN BY: HKJ
CHECKED BY: DEV
DATE OCT., 2021
G.L.W. No. 13013

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS 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. 12975 EXP. DATE: MAY 26, 2022
10/15/21

STATE OF MARYLAND — CARLTON DEWITT DEVRIES — No. 12975 — PROFESSIONAL ENGINEER

BY	NO	REVISION	DATE
HKJ	1	REVISED WATER/SEWER PER GRADING CHANGES	

COVER SHEET

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5177-D
PHASE 4C
LOTS 308-314, 327-345 & 375-378, OPEN SPACE LOTS 400 & 405-407
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN

SHEET 1 OF 6

L:\CADD\DRAWINGS\13013\PLANS BY GLW\WS\FINALS\PHASE 4\PHASE 4C\13013-PH4C-FINALS-WS-COVER SHEET.dwg, 10/15/2021 10:45:11 AM, Lee Sanders, AutoCAD 2021 - Plot Scale: 1:1, Plot Offset: (0.00, 0.00) - Hanes Gordon

© GLW 2021

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	GLW PLANNING | ENGINEERING | SURVEYING	DESIGNED BY: HKJ	DATE OCT., 2021	PROFESSIONAL CERTIFICATION
CHIEF, BUREAU OF UTILITIES — DATE 10-25-21	CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE 11-22-21	3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186	DRAWN BY: HKJ	G.L.W. No. 13013	I HEREBY CERTIFY THAT THESE PLANS 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. 12975 EXP. DATE: MAY 26, 2022 10/15/21
			CHECKED BY: DEV		

STATE OF MARYLAND — CARLTON KENNETH GUTSCHICK — No. 12975 — PROFESSIONAL ENGINEER

BY	NO	REVISION	DATE

PHASING KEY MAP

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT

CONTRACT No. 24-5177-D

PHASE 4C

LOTS 308-314, 327-345 & 375-378, OPEN SPACE LOTS 400 & 405-407

HOWARD COUNTY, MARYLAND

ELECTION DISTRICT No. 2

SCALE 1"=80'

SHEET 2 OF 6

© GLW 2021

L:\CADD\DRAWINGS\13013\PLANS BY GLW\WS\FINALS\PHASE 4\PHASE 4C\13013-PH4C-FINALS-WS-KEY MAP.dwg,

FIRE HYDRANT TEE INFORMATION	
FHT	LOCATION
(C)	N 583,099 E 1,346,380
(D)	N 583,345 E 1,345,920
(E)	N 583,345 E 1,346,279
(F)	N 583,801 E 1,346,291

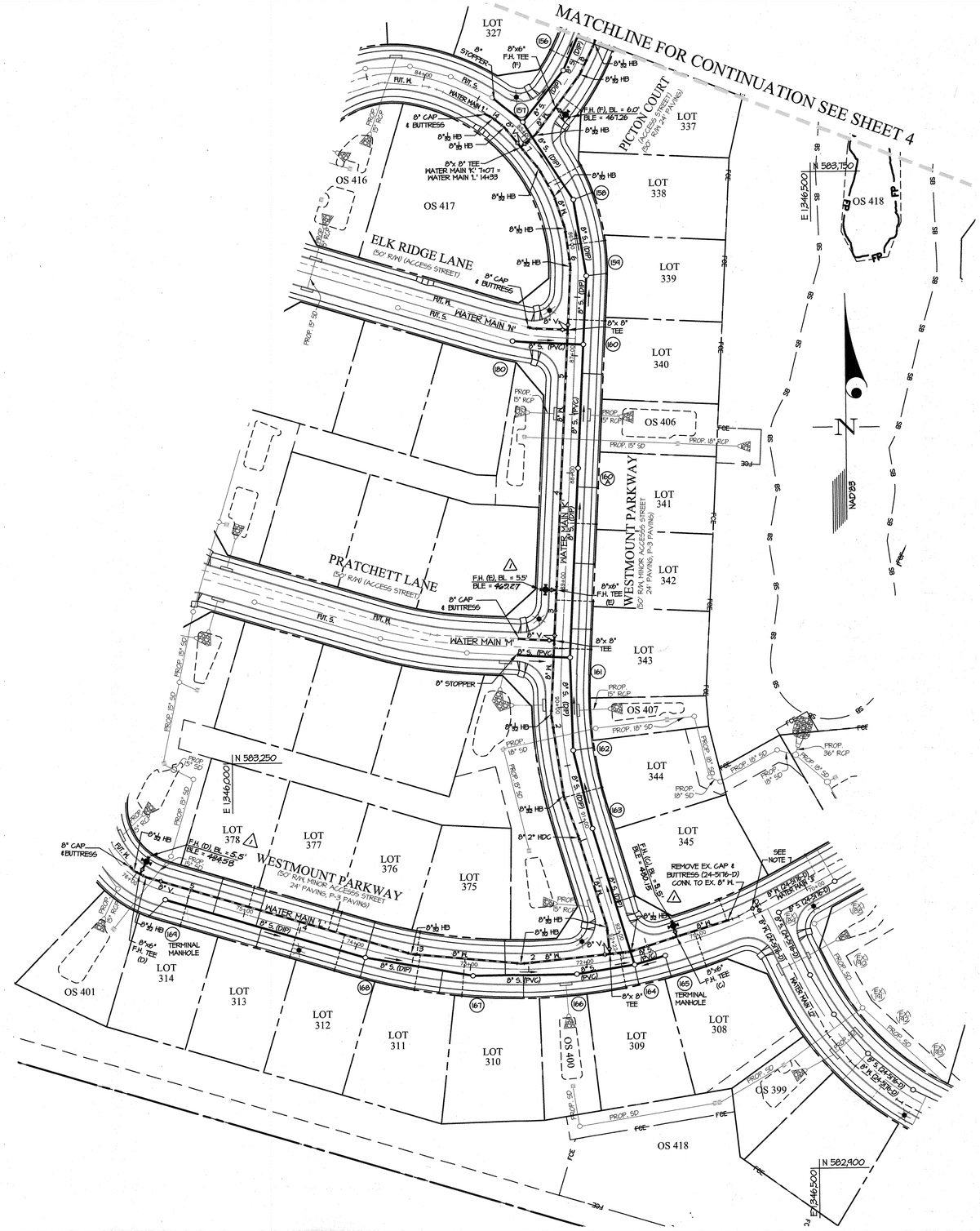
SEWER MANHOLE INFORMATION	
MH	LOCATION
156	N 583,834 E 1,346,284
157	N 583,745 E 1,346,254
158	N 583,728 E 1,346,297
159	N 583,663 E 1,346,307
160A	N 583,449 E 1,346,299
160	N 583,605 E 1,346,304
161	N 583,338 E 1,346,290
162	N 583,259 E 1,346,292
163	N 583,192 E 1,346,308
164	N 583,075 E 1,346,343
165	N 583,083 E 1,346,370
166	N 583,068 E 1,346,294
167	N 583,067 E 1,346,205
168	N 583,083 E 1,346,113
169	N 583,135 E 1,345,942
180	N 583,608 E 1,346,244

FITTING CHART		
STATION	FITTING	LOCATION
WATER MAIN 'K'		
0+00	8"x 8" TEE	N 583,085 E 1,346,322
0+23	8" 1/32 HB	N 583,108 E 1,346,320
1+08	8" 2.0° HDC	N 583,184 E 1,346,277
1+41	8" 1/32 HB	N 583,220 E 1,346,284
2+11	8" 1/32 HB	N 583,284 E 1,346,274
2+75	8"x 8" TEE	N 583,353 E 1,346,271
3+18	8"x 6" FHT (E)	N 583,345 E 1,346,279
4+30	8" 1.0° HDC (VERT.)	SEE SHEET 5
5+40	8"x 8" TEE	N 583,617 E 1,346,291
5+44	8" 1/32 HB	N 583,671 E 1,346,294
6+27	8" 1/32 HB	N 583,704 E 1,346,284
6+56	8" 1/32 HB	N 583,732 E 1,346,280
6+82	8" 1/32 HB	N 583,755 E 1,346,267
7+07	8"x 8" TEE	N 583,773 E 1,346,252
7+23	8" 1/32 HB	N 583,784 E 1,346,265
7+52	8"x 6" FHT (F)	N 583,801 E 1,346,282
7+60	8" 2.5° HDC (VERT.)	SEE SHEET 5
7+87	8" 1/32 HB	N 583,835 E 1,346,303
8+16	8" 1/32 HB	N 583,861 E 1,346,316
WATER MAIN 'L'		
0+74	8"x 6" FHT (C)	N 583,099 E 1,346,380
1+17	8" 1/32 HB	N 583,086 E 1,346,339
1+33	8"x 8" TEE	N 583,085 E 1,346,322
2+10	8" 1/32 HB	N 583,077 E 1,346,246
3+04	8" 1/32 HB	N 583,086 E 1,346,152
4+11	8" 1.5° HDC (VERT.)	SEE SHEET 6
4+51	8" 1.5° HDC (VERT.)	SEE SHEET 6
5+41	8" 1/32 HB	N 583,154 E 1,345,925
5+47	8"x 6" FHT (D)	N 583,157 E 1,345,920
5+53	8" 1/32 HB	N 583,160 E 1,345,915
5+58	8" CAP & BUTTRESS	N 583,164 E 1,345,912
13+90	8" CAP & BUTTRESS	N 583,802 E 1,346,221
13+98	8" 1/32 HB	N 583,798 E 1,346,229
14+11	8" 1/32 HB	N 583,790 E 1,346,238
WATER MAIN 'M'		
0+31	8" CAP & BUTTRESS	N 583,354 E 1,346,246
WATER MAIN 'N'		
0+30	8" 1/32 HB	N 583,614 E 1,346,262
0+34	8" CAP & BUTTRESS	N 583,620 E 1,346,257

1		
3+63	8" 1.5° HDC (VERT.)	SEE SHEET 5

NOTES:

1. ALL WHC'S SHOWN SERVING NUMBERED LOTS ARE 4".
2. ALL SEWER MAINS WILL BE 8" PVC (SDR 35) OR DIP (CLASS 54). SEE PROFILE SHEET 5 FOR THE LIMITS OF EACH.
3. ALL MANHOLES WILL BE STANDARD 4'-0" (6 5.12).
4. OUTSIDE METERS WILL BE PER HOWARD CO. DETAIL W 3.28.
5. ALL WHC'S SERVING NUMBERED LOTS ARE 1 ½" WITH A 1" METER OUTSIDE SETTING. ALL WHC'S SHOWN ARE PROPOSED UNLESS OTHERWISE NOTED.
6. WATER MAIN IS 8" C900 PVC (DR-18) UNLESS OTHERWISE NOTED.
7. EXISTING VALVE TO BE CLOSED BY DPW FOR CONSTRUCTION
8. FOR SEWER HOUSE CONNECTION INVERT ELEVATIONS FROM THE MAIN TO THE FUTURE DWELLINGS (M.G.E.), SEE SHEET 6.
9. ALL STORM DRAIN TO BE HDPE UNLESS NOTED OTHERWISE.
10. ALL FIRE HYDRANTS TO BE INSTALLED PER HOCO DETAIL W-1.11. CONTINUITY TEST STATIONS TO BE INSTALLED AT ALL FIRE HYDRANTS PER W-1.15.



GRAPHIC SCALE

0 25 50 100

SCALE: 1"=50'

NOTE: CONTRACTS 20-5167-D (WESTMOUNT - PHASE 3B) AND 24-5176-D (WESTMOUNT - PHASE 4B) MUST BE PLACED IN-SERVICE TO ALLOW THIS CONTRACT TO BE PLACED IN-SERVICE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

10-25-21
CHIEF, BUREAU OF UTILITIES — DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

11-22-21
CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE

GLW
PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY: WSJ
DRAWN BY: WSJ
CHECKED BY: DEV

DATE OCT., 2021

G.L.W. No. 13013

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS 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. 12975
EXP. DATE: MAY 26, 2022
10/15/21

STATE OF MARYLAND — DAVID KENNETH GUTSCHICK — No. 12975 — PROFESSIONAL ENGINEER

BY	NO	REVISION	DATE
HKJ	1	REVISED WATER/SEWER PER GRADING CHANGES	02-24-23

WATER and SEWER PLANS

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT

CONTRACT No. 24-5177-D
PHASE 4C
LOTS 308-314, 327-345 & 375-378, OPEN SPACE
LOTS 400 & 405-407
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN

SHEET 3 OF 6

L:\CADD\DRAWINGS\13013\PLANS BY GLW\WS\FINALS\PHASE 4\PHASE 4C\13013-PH4C-FINALS-WS-PLANS.dwg, PLOTTED BY: Jeffrey Lanham 10/15/2021 2:56 PM, LAST SAVED: 10/15/2021 2:55 PM, LAST PLOTTED BY: Jeffrey Lanham

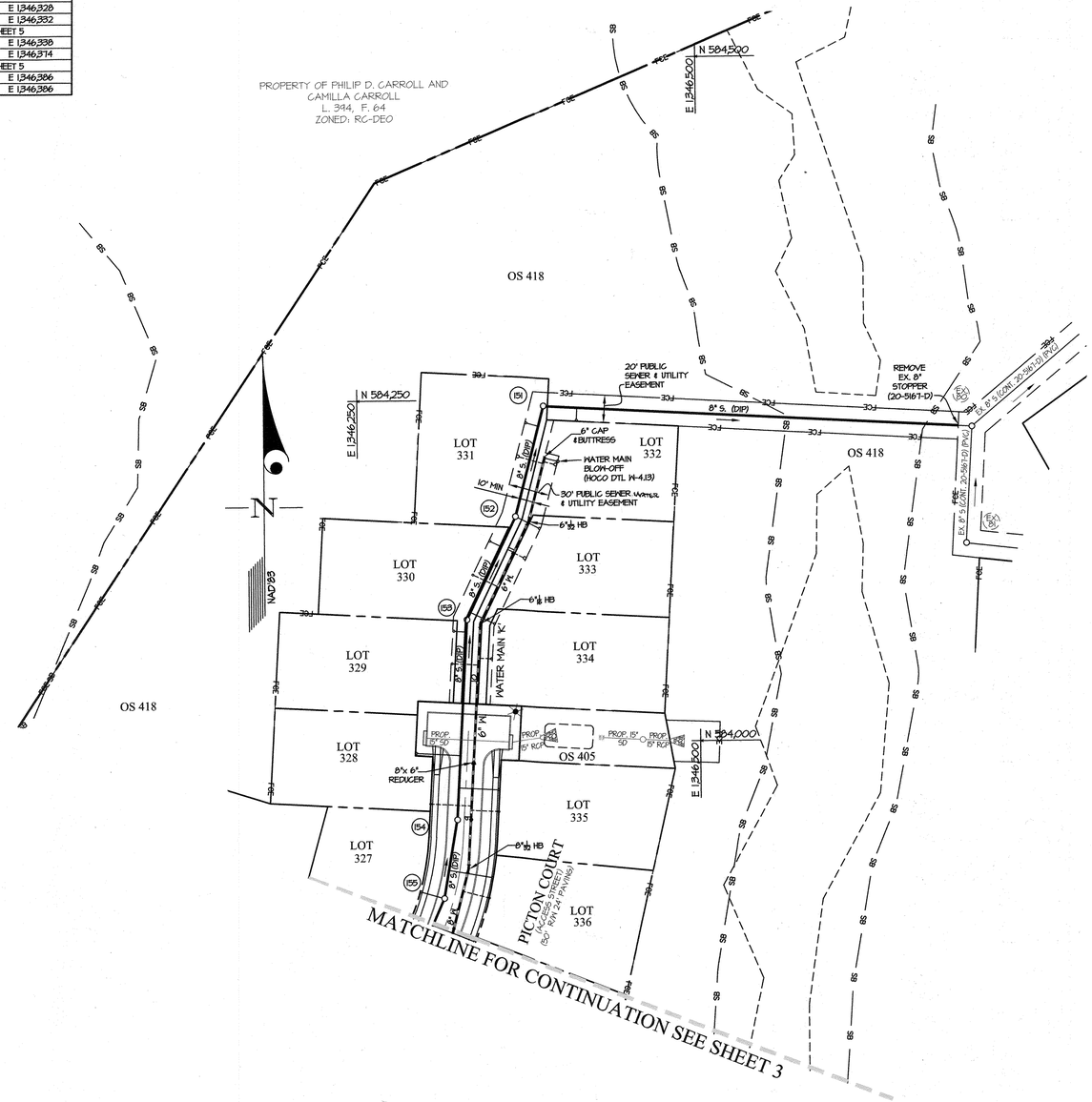
© GLW 2021

SEWER MANHOLE INFORMATION	
MH	LOCATION
151	N 584,246 E 1,346,386
152	N 584,165 E 1,346,364
153	N 584,090 E 1,346,328
154	N 583,944 E 1,346,320
155	N 583,886 E 1,346,310

FITTING CHART			
STATION	FITTING	LOCATION	
WATER MAIN 'K'			
8+64	8" 1/32 HB	N 583,908	E 1,346,328
9+41	8"x 6" REDUCER	N 583,984	E 1,346,332
9+54	6" 22.5° HDG (VERT.)	SEE SHEET 5	
10+44	6" 1/16 HB	N 584,087	E 1,346,338
11+26	6" 1/32 HB	N 584,161	E 1,346,374
11+50	6" 1/32 VB	SEE SHEET 5	
11+74	BLOW-OFF VALVE	N 584,209	E 1,346,386
11+75	6" CAP & BUTTRESS	N 584,207	E 1,346,386

NOTES:

1. ALL SHC'S SHOWN SERVING NUMBERED LOTS ARE 4".
2. ALL SEWER MAINS WILL BE 8" PVC (SDR 35) OR DIP (CLASS 54). SEE PROFILE SHEETS 5 & 6 FOR THE LIMITS OF EACH.
3. ALL MANHOLES WILL BE STANDARD 4'-0" (G 5.12).
4. OUTSIDE METERS WILL BE PER HOWARD CO. DETAIL W 3.28.
5. ALL WHC'S SERVING NUMBERED LOTS ARE 1½" WITH A 1" METER OUTSIDE SETTING. ALL WHC'S SHOWN ARE PROPOSED UNLESS OTHERWISE NOTED.
6. WATER MAIN IS 8" C900 PVC (DR-18) UNLESS OTHERWISE NOTED.
7. EXISTING VALVE TO BE CLOSED BY DPW FOR CONSTRUCTION.
8. FOR SEWER HOUSE CONNECTION INVERT ELEVATIONS FROM THE MAIN TO THE FUTURE DWELLINGS (M.G.E.), SEE SHEET 6.
9. ALL STORM DRAIN TO BE HDPE UNLESS OTHERWISE NOTED.
10. ALL FIRE HYDRANTS TO BE INSTALLED PER HOCO DETAIL W-1.11. CONTINUITY TEST STATIONS TO BE INSTALLED AT ALL FIRE HYDRANTS PER W-1.15.



GRAPHIC SCALE

0 25 50 100

SCALE: 1"=50'

NOTE: CONTRACTS 20-5167-D (WESTMOUNT-PHASE 3B) AND 24-5176-D (WESTMOUNT-PHASE 4B) MUST BE PLACED IN-SERVICE TO ALLOW THIS CONTRACT TO BE PLACED IN-SERVICE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

10-25-21
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

11-22-21
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

N.R.

GLW PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY: WJ
DRAWN BY: WJ
CHECKED BY: DBV

DATE OCT., 2021

G.L.W. No. 13013

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS 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. 12975, EXP. DATE: May 26, 2022

10/15/21
DATE

STATE OF MARYLAND — CARLTON KENNETH GUTBROD — No. 12975 — PROFESSIONAL ENGINEER

BY	NO	REVISION	DATE
HKJ	1	REVISED WATER/SEWER PER GRADING CHANGES	02-24-23

WATER and SEWER PLAN

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5177-D
PHASE 4C
LOTS 308-314, 327-345 & 375-378, OPEN SPACE LOTS 400 & 405-407
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN

SHEET 4 OF 6

L:\CADD\DRAWINGS\13013\PLANS BY GLW\WS\FINALS\PHASE 4C\PHASE 4C\13013-PH4C-FINALS-WS-PLANS.dwg, PLOTTED: 10/27/2021 12:55 PM, LAST SAVED: 10/27/2021 12:55 PM, PLOTTED BY: Terry Sargent

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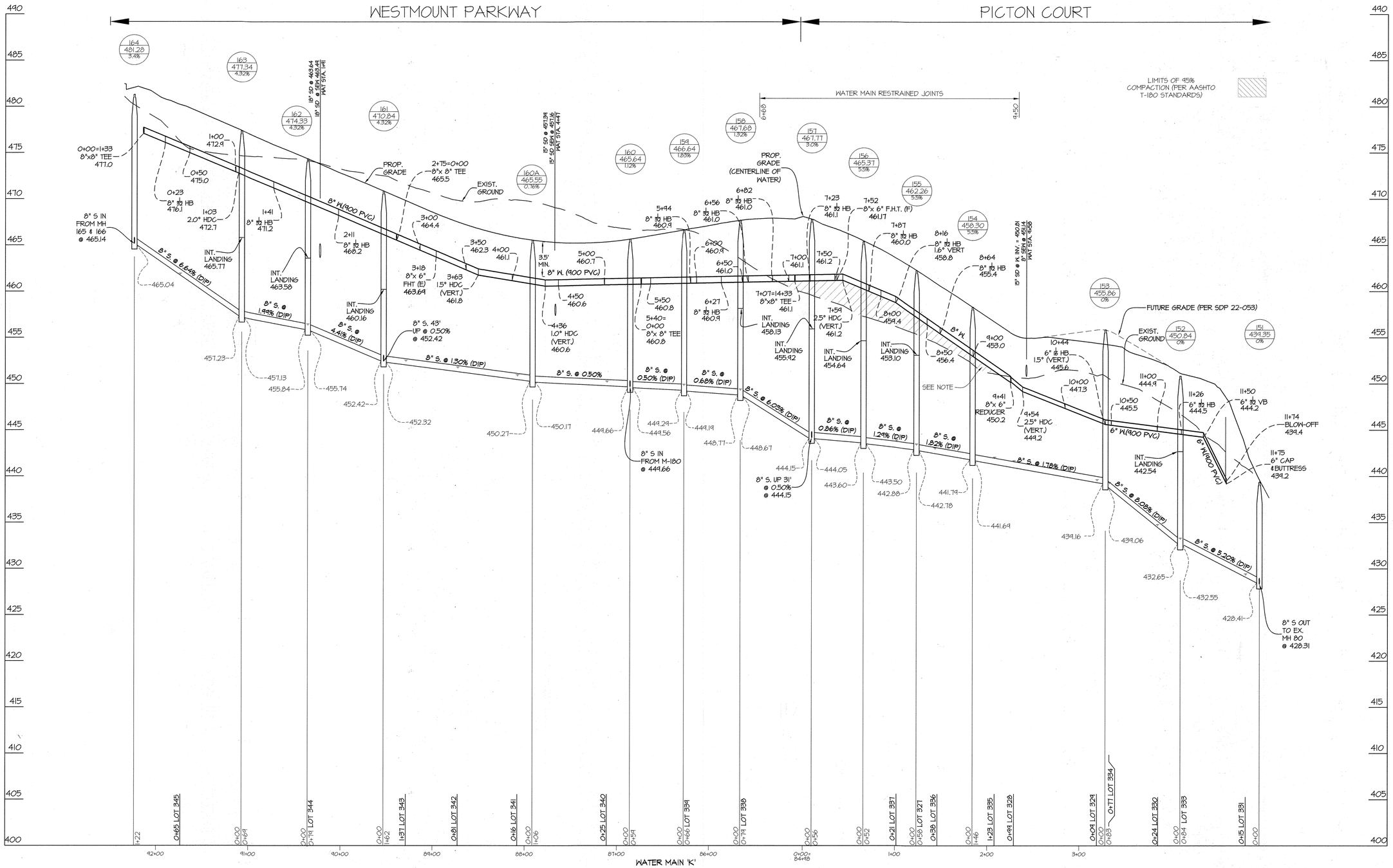

GRAPHIC SCALE
1 inch = 5' ft.
(VERTICAL)

PROFILE SCALES:
HOR. 1" = 50'
VERT. 1" = 5'

GRAPHIC SCALE
1 inch = 50' ft.
(HORIZONTAL)

REPLACEMENT SHEET - THIS SHEET
SUPERSEDEDS PLAN SIGNED ON 11-22-2021

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	GLW PLANNING | ENGINEERING | SURVEYING 3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186	DESIGNED BY: WsJ DRAWN BY: WsJ CHECKED BY: DEV	DATE FEB., 2023 G.L.W. No. 13013	PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS 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. 12975 EXP. DATE: MAY 26, 2024 3/2/23	STATE OF MARYLAND CHRISTOPHER CONTI No. 12975 PROFESSIONAL ENGINEER

BY	NO	REVISION	DATE
AWL	1	REPLACEMENT SHEET–REVISED WAT/SEW PROFILES -PER GRADE CHANGES TO F21-052	2/20/23

REVISED
WATER and SEWER
PROFILES

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5177-D
PHASE 4C
LOTS 308-314, 327-345 & 375-378, OPEN SPACE
LOTS 400 & 405-407
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN

SHEET 5 OF 6

3-10-23
CHIEF, BUREAU OF UTILITIES DATE

3-16-23
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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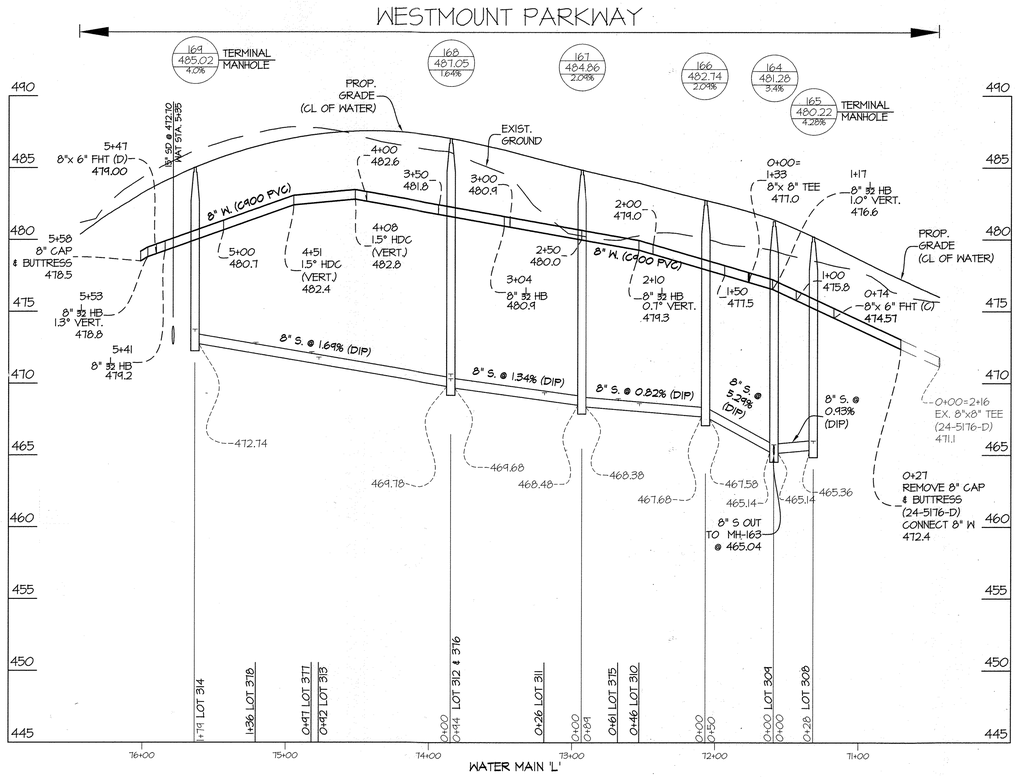
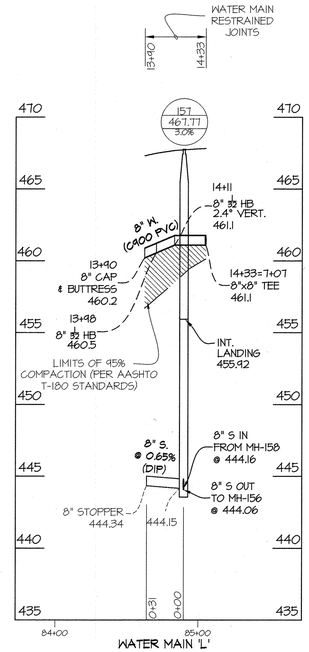
L:\CADD\DRAWINGS\13013-PLANS BY GLW\WSJ\FINALS\PHASE 4\PHASE 4C\13013-PH4C-FINALS-WS-PROFILES.dwg,
PLOTTED: 2/22/2023, 3:55 PM, LAST SAVED: 2/16/2023, 3:39 PM, PLOTTED BY: Tony Vogler





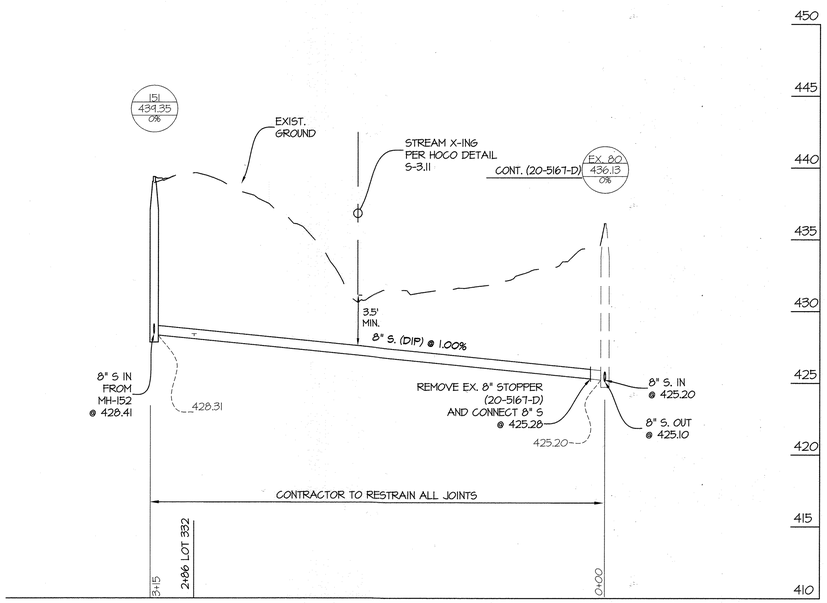
SEWER HOUSE CONNECTION INFORMATION AND MINIMUM CELLAR ELEVATIONS (M.C.E.)

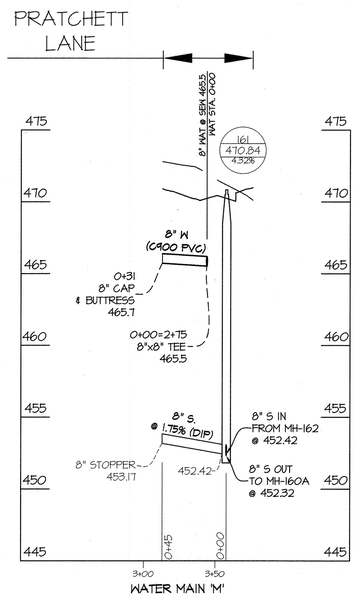
LOT	INV. OF SHC @ MAIN/MH	SLOPE OF SHC	INV. @ R/W SEE NOTE 1	M.C.E. SEE NOTE 2	F.F.E. SEE NOTE 3	B.E. SEE NOTE 4
308	465.69	2.00%	466.01	470.13	484.34	474.50
309	465.47	2.00%	465.75	469.77	486.84	477.00
310	468.21	2.00%	468.61	472.77	489.94	480.10
311	468.97	2.00%	469.37	473.51	491.24	481.40
312	470.11	2.00%	470.39	474.61	492.24	482.40
313	471.47	2.00%	471.81	475.55	492.24	482.40
314	473.07	2.00%	473.35	475.43	491.14	481.30
327	443.21	2.00%	443.51	446.93	470.84	461.00
328	441.05	2.00%	441.71	445.63	463.24	453.40
329	439.45	2.00%	439.65	444.01	454.24	444.40
330	434.60	2.00%	434.80	438.82	457.04	447.20
331	429.25	2.00%	429.45	433.29	452.34	442.50
332	428.21	2.00%	428.41	432.25	452.34	442.50
333	432.98	2.00%	433.18	437.18	456.04	446.20
334	438.88	2.00%	439.30	443.30	458.84	449.00
335	441.48	2.00%	442.08	446.20	463.04	453.20
336	442.61	2.00%	443.09	446.64	466.34	456.50
337	443.29	2.00%	443.93	447.73	469.34	459.50
338	444.10	2.00%	444.40	453.40	470.74	460.90
339	444.62	2.00%	444.94	453.68	471.34	461.50
340	444.94	2.00%	450.30	454.30	470.04	460.20
341	450.62	2.00%	450.98	455.10	470.64	460.80
342	451.46	2.00%	451.82	455.94	472.34	462.50
343	452.19	2.00%	452.55	456.61	473.34	463.50
344	456.17	2.00%	456.47	460.61	481.04	471.20
345	461.58	2.00%	461.94	465.98	483.04	473.20
375	468.33	2.00%	468.95	472.75	484.84	480.00
376	470.11	2.00%	470.71	474.35	442.04	482.20
377	471.55	2.00%	472.19	476.41	442.14	482.30
378	472.21	2.00%	472.85	476.67	441.54	481.70

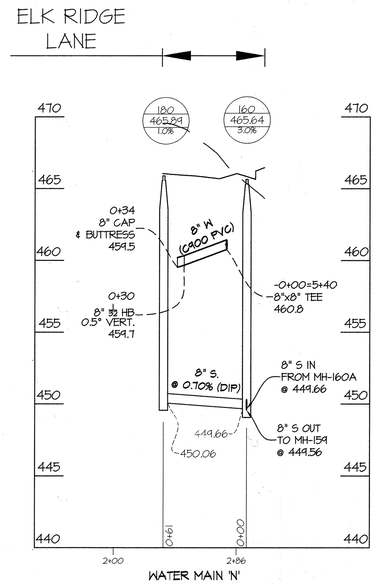
NOTE:
1. THIS VALUE IS THE INVERT OF THE S.H.C. AT EITHER THE EDGE OF THE RIGHT-OF-WAY OR EASEMENT LINE.
2. IT WILL BE THE RESPONSIBILITY OF THE ENGINEER PREPARING THE SITE DEVELOPMENT PLAN TO ENSURE THE FINAL BASEMENT ELEVATION IS ABOVE THE MINIMUM CELLAR ELEVATION (M.C.E.) SHOWN IN THIS TABLE.
3. THE FIRST FLOOR ELEVATION (F.F.E.) IS THE ELEVATION OF THE DRIVEWAY AT THE RIGHT-OF-WAY LINE PLUS AN ADJUSTMENT FOR THE DRIVEWAY AND A SINGLE RISER INSIDE THE GARAGE.
4. THE BASEMENT ELEVATION (B.E.) IS THE FIRST FLOOR ELEVATION MINUS 9.84'

AS-BUILT INFORMATION

		WATER HOUSE CONNECTION AS BUILT		SEWER HOUSE CONNECTION AS BUILT	
LOT #	ADDRESS	LOCATION DIM. 1	LOCATION DIM. 2	LOCATION DIM. 1	LOCATION DIM. 2
308	3729 WESTMOUNT PARKWAY				
309	3733 WESTMOUNT PARKWAY				
310	3741 WESTMOUNT PARKWAY				
311	3743 WESTMOUNT PARKWAY				
312	3747 WESTMOUNT PARKWAY				
313	3751 WESTMOUNT PARKWAY				
314	3755 WESTMOUNT PARKWAY				
327	3823 WESTMOUNT PARKWAY				
328	4509 PICTON COURT				
329	4517 PICTON COURT				
330	4521 PICTON COURT				
331	4523 PICTON COURT				
332	4524 PICTON COURT				
333	4520 PICTON COURT				
334	4516 PICTON COURT				
335	4508 PICTON COURT				
336	4504 PICTON COURT				
337	4500 PICTON COURT				
338	3835 WESTMOUNT PARKWAY				
339	3839 WESTMOUNT PARKWAY				
340	3843 WESTMOUNT PARKWAY				
341	3851 WESTMOUNT PARKWAY				
342	3855 WESTMOUNT PARKWAY				
343	3859 WESTMOUNT PARKWAY				
344	3867 WESTMOUNT PARKWAY				
345	3871 WESTMOUNT PARKWAY				
375	3740 WESTMOUNT PARKWAY				
376	3744 WESTMOUNT PARKWAY				
377	3748 WESTMOUNT PARKWAY				
378	3752 WESTMOUNT PARKWAY				







PROFILE SCALES:
HOR. 1" = 50'
VERT. 1" = 5'

GRAPHIC SCALE 1 inch = 5' ft. (VERTICAL)

GRAPHIC SCALE (HORIZONTAL) 1 inch = 50' ft.

REPLACEMENT SHEET - THIS SHEET SUPERSEDEDS PLAN SIGNED ON 11-22-2021

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
3-9-23
CHIEF, BUREAU OF UTILITIES — DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
3-16-23
CHIEF, DEVELOPMENT ENGINEERING DIVISION — DATE

GLW PLANNING | ENGINEERING | SURVEYING
3909 NATIONAL DRIVE | SUITE 250 | BURTONSVILLE, MD 20866 | GLWPA.COM
PHONE: 301-421-4024 | BALT: 410-880-1820 | DC&VA: 301-989-2524 | FAX: 301-421-4186

DESIGNED BY: WSJ
DRAWN BY: WSJ
CHECKED BY: DEV
DATE FEB., 2023
G.L.W. No. 13013

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE PLANS 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. 12975 EXP. DATE: MAY 26, 2024
2/20/23

BY	NO	REVISION	DATE
AWL	1	REVISED SHEET—REVISED WAT/SEW PROFILES -PER GRADE CHANGES TO F-21-032	2/20/23

REVISED
WATER and SEWER PROFILES
MINIMUM CELLAR ELEVATIONS
AND AS-BUILT INFORMATION

600' SCALE MAP NO. 23 BLOCK NO. 6 & 12

WESTMOUNT
CONTRACT No. 24-5177-D
PHASE 4C
LOTS 308-314, 327-345 & 375-378, OPEN SPACE
LOTS 400 & 405-407
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT No. 2

SCALE AS SHOWN

SHEET 6 OF 6

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