### **GENERAL NOTES**

- 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 JANUARY 2007 BY GEORGE W. STEPHENS, JR. AND ASSOC.
- 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. J'109 AND NO. U 25,
- ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE (J 109) THE DISK IS SET IN A CONCRETE MONUMENT PROJECTING TEN CENTIMETERS AND THE DISK IS STAMPED J 109 1965 USC AND GS. (U-25) THE DISK IS SET IN A ROUND CONCRETE POST PROJECTING SIX INCHES AND IS STAMPED U 25 1957.
- 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

PURPOSE STATEMENT: /1

STAGES. THE FIRST STAGE IS TO COMPLETE

DRIVE, INCLUDING PUBLIC UTILITIES, TO A

OUT THE REMAINDER OF THE PROPOSED

SEWER BETWEEN SMH#3 AND SMH#4. 4. REMOVE STREAM CROSSING CALLOUT

BETWEEN SMH#3 AND EX SMH#8973.

1. INCREASE THE 1" WATER SERVICE AND

3/4" METER TO 2" WATER SERVICE

REMAIN A PART OF THIS CONTRACT SET.

PROVIDE WATER AND SEWER SERVICE

FROM STAGE I TO STAGE II.

PURPOSE STATEMENT: 4

PURPOSE STATEMENT: \( \square{5} \)

BEHAVIORAL HEALTH FACILITY.

PURPOSE STATEMENT: 6

THE CONSTRUCTION OF SUMMIT ROCK

POINT JUST BEYOND THE 3RD STREAM

PLANS FOR FUTURE DEVELOPMENT.

PURPOSE STATEMENT: /2

TO FUTURE PAD SITES.

PURPOSE STATEMENT: /3\

- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
  - BGE (CONSTRUCTION SERVICES) BGE (EMERGENCY) BUREAU OF UTILITIES COLONIAL PIPELINE CO
  - 410-637-8713 410-313-4900 410-795-1390 MISS UTILITY 1-800-257-7777 STATE HIGHWAY ADMINISTRATION 410-531-5533
- TREES AND SHRUBS ARE TO 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 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. 12. A MDE WETLAND PERMIT IS REQUIRED FOR THE DISTURBANCE SHOWN ON THIS PLAN.MDE TRACKING NUMBER 200860826 / 08-NT-3066. NO IN-STREAM CONSTRUCTION MAY OCCUR FROM MARCH 1 - JUNE 15.

- 1. ALL WATER MAINS SHALL BE D.I.P. CLASS 54 UNLESS OTHERWISE NOTED
- 2. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-6' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES
- 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS
- 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 HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 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 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 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 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 FITHER 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 (1 1/2-DEGREE ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C-900, 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.

5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C-900 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 THE PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

- 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 WATERTIGHT FRAME AND COVER STANDARD DETAIL G5.52. WHERE WATERTIGHT 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 THE CELLAR CANNOT BE SERVED.

THE DEVELOPMENT PLAN (SDP 08-082) IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

EDIMENT CONTROL MEASURES FOR THIS

CCORDANCE WITH SECTION 308 OF THE

OWARD COUNTY DESIGN MANUAL VOL. IV

CONTRACT WILL BE IMPLEMENTED IN

**DEPARTMENT OF PLANNING & ZONING** HOWARD COUNTY, MARYLAND

# 501 FAIRMOUNT AVENUE SUITE 300 TOWSON, MD 2128 P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR

PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

MARYLAND, LICENSE NO.<u>26569</u>, EXPIRATION DATE:<u>07/18/19</u>.

APPROVED BY ME, AND THAT I AM A DULY LICENSED

DRIGINAL DESIGN WAS

PROVIDED BY GEORGE W.

TEPHENS, JR. AND ASSOCIATES,

GMO

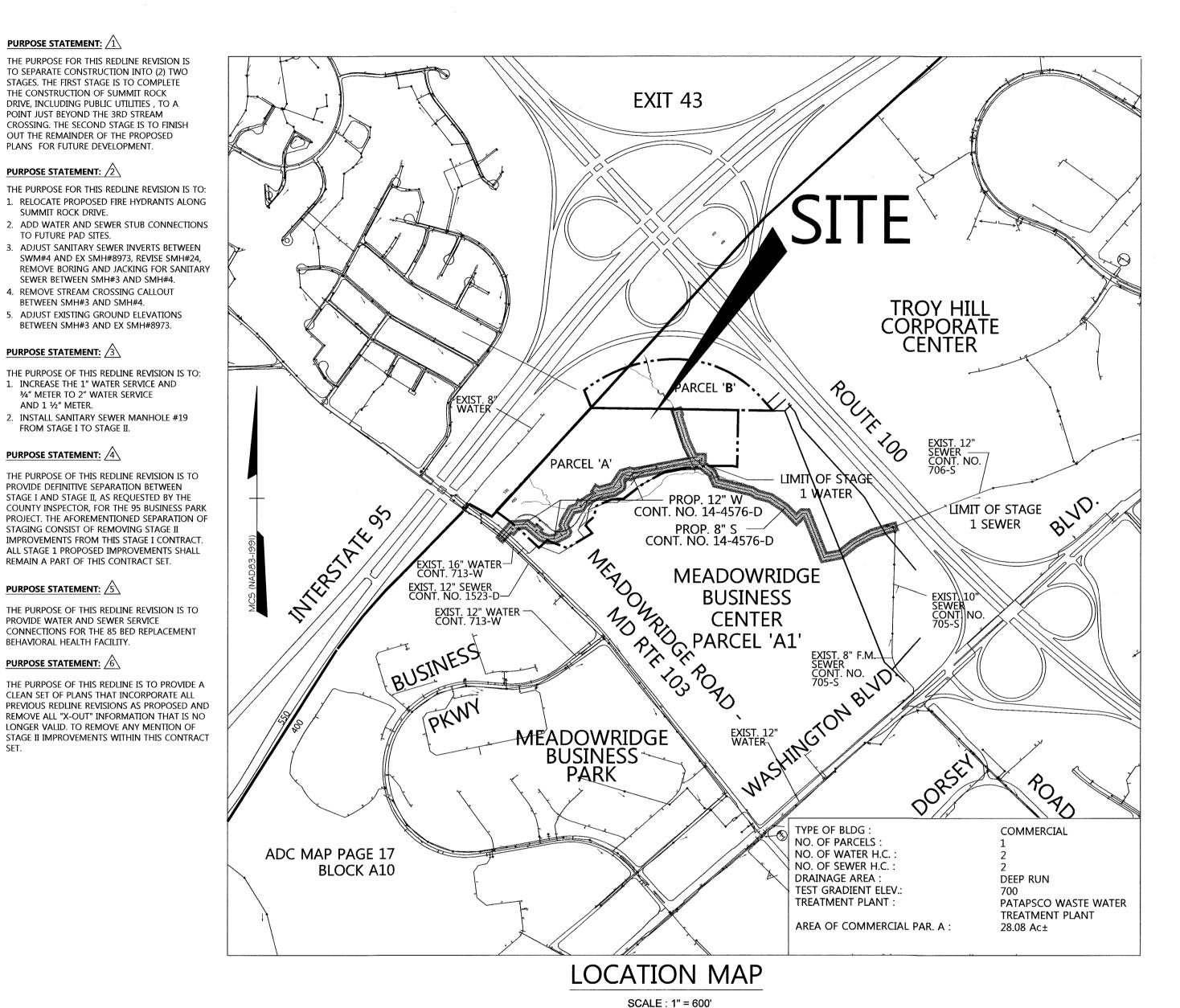
NC. AND APPROVED ON 5-6-II

PROFESSIONAL CERTIFICATION

## PUBLIC WATER & SEWER CONSTRUCTION PLANS

## CORRIDOR 95 BUSINESS PARK 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-4576-D

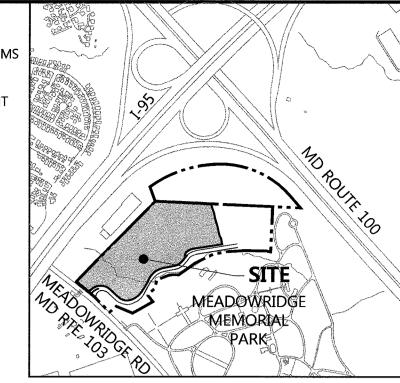


### **BENCHMARKS**

NOTE: HORIZONTAL AND VERTICAL DATUMS BASED ON ( NAD 83 ) MARYLAND STATE COORDINATE SYSTEM AS PROJECTED BY NATIONAL GEODETIC SURVEY MONUMENT CONTROL STATIONS.

BM # J 109 ELEVATION 348.04 THE DISK IS SET IN A CONCRETE MONUMENT PROJECTING TEN CENTIMETERS AND THE DISK IS STAMPED J 109 1965 USC AND GS N 557,526.35 E 1,370,661.99

> BM # U 25 ELEVATION 215.39 NAD 83 THE DISK IS SET IN A ROUND CONCRETE POST PROJECTING SIX INCHES AND THE DISK IS STAMPED U 25 1957 N 554,701.88 E 1,377,647.62



HOWARD COUNTY ADC MAP NUMBER 17, GRID NO. A10

	QUANTITIES ESTIMATED	AS-BUILT		
ITEMS		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
12" W C-900 ( DR-18 )	1,921 L.F.			
8" W C-900 (DR-18)	20 LF.			
6" W C-900 ( DR-18 )	117 L.F.			
FIRE HYDRANTS	6 EA.			
16" X 8" TAPPING SLEEVE & 12" VALVE	1 EA.			
12" X 6" TEE	6 EA.			
12" VALVE & ROADWAY BOX	4 EA.			
	6 EA.			
6" VALVE & ROADWAY BOX  12" X 1/8 HORIZONTAL BEND	7 EA.			
12" X 1/16 HORIZONTAL BEND	7 EA.			
12" X 1/32 HORIZONTAL BEND	4 EA.			
12" X 1/16 VERTICAL BEND	7 EA.			
12" X 1/32 VERTICAL BEND	1 EA.			
12" X 1/8 BEND ROTATION	5 EA.			
12" X 1/16 BEND ROTATION	2 EA.			
12" X 1/32 BEND ROTATION	1 EA.			
12" x 6" REDUCER	1 EA.			
12" COUPLING	3 EA.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
8" P.V.C. SANITARY SEWER MAIN	3,045 L.F.			
* 4' STD. PRECAST SANITARY MANHOLE (G5.12)	11 EA.			
4' STD. PRECAST SANITARY MANHOLE (G5.12)	10 EA.			
* 4' STD. PRECAST SANITARY MANHOLE (G5.12) TYPE 'A' DROP (S1.32)	1 EA.			
#9800 ECLIPSE AUTOMATIC FLUSHING DEVICE	1 EA.			
2" CURB STOP, BALL VALVE ASSEMBLY & ROADWAY BOX	1 EA.			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2" CORPORATION COCK ASSEMBLY & TAP	1 EA.			
2" COPPER TUBING	16 L.F.			
4" SANITARY CLEANOUT	1 EA.			
6" SCH 40 PVC	8 L.F.			
INSIDE DROP MANHOLE	1 EA.			
12' X 12" TEE	2 EA.			
2" COPPER WATER SERVICE	30 L.F.		, <u>, , , , , , , , , , , , , , , , , , </u>	
1 1/2" METER AND VAULT	1 EA.		_	
4' STD. PRECAST SANITARY MANHOLE (G5.12) TYPE 'B' DROP (S1.32)	1 EA.			
NAME OF UTILITY CONTRACTOR:				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				

### LEGEND

EX. PAVING

600 SCALE MAP NO.

FIRE HYDRANT PROPERTY LINE WATER VALVE **BUILDING SETBACK LINE EASEMENT LINE** STORM DRAIN MH **BUILDING LINE** SANITARY MH EX. WATERLINE UTILITY BOX **EX. SANITARY LINE** TRANSFORMER EX. STORM DRAIN LINE

PROVIDE A CLEAN SET OF PLANS. REMOVE ANY MENTION OF STAGE II

PROVIDE WATER AND SEWER SERVICE CONNECTIONS FOR THE 85 BED

REMOVE ALL STAGE II IMPROVEMENTS FROM THIS STAGE I CONTRACT

INCREASE 1" WATER SERVICE TO 2" SERVICE. INSTALL SMH #19 FROM

RELOCATE FIRE HYDRANTS ALONG SUMMIT ROCK DR. AND MAKE

SHOW STAGES I AND II FOR COORDINATION WITH SDP-08-082 REV. 1,

REVISION

AND QUANTITIES FOR AUTOMATIC FLUSHING DEVICE

IMPROVEMENTS WITHIN THIS CONTRACT SET.

REPLACEMENT BEHAVIORAL HEALTH FACILITY

ADJUSTMENTS TO SANITARY SEWER

Stage I to Stage II

LEGEND (Con't.

PROP. STORM DRAIN PROP. 8" SAN.

## INDEX OF SHEETS

SHEET NO.	TITLES
1	COVER SHEET, GENERAL NOTES & LOCATION MAP
2	WATER & SEWER PLAN
3	WATER & SEWER PLAN
4	SEWER PLAN
5	WATER PROFILE
6	WATER PROFILE
7	WATER PROFILE & FIRE HYDRANTS
8	SEWER PROFILES
9	SEWER PROFILES

COVER SHEET, GENERAL NOTES &		
LOCATION MAP		

BLOCK NO.

WATER AND SEWER PLAN **CORRIDOR 95 BUSINESS PARK** 

DATE: 6/25/2018

SHOWN

SHEPPARD PRATT HEALTH SYSTEM INC

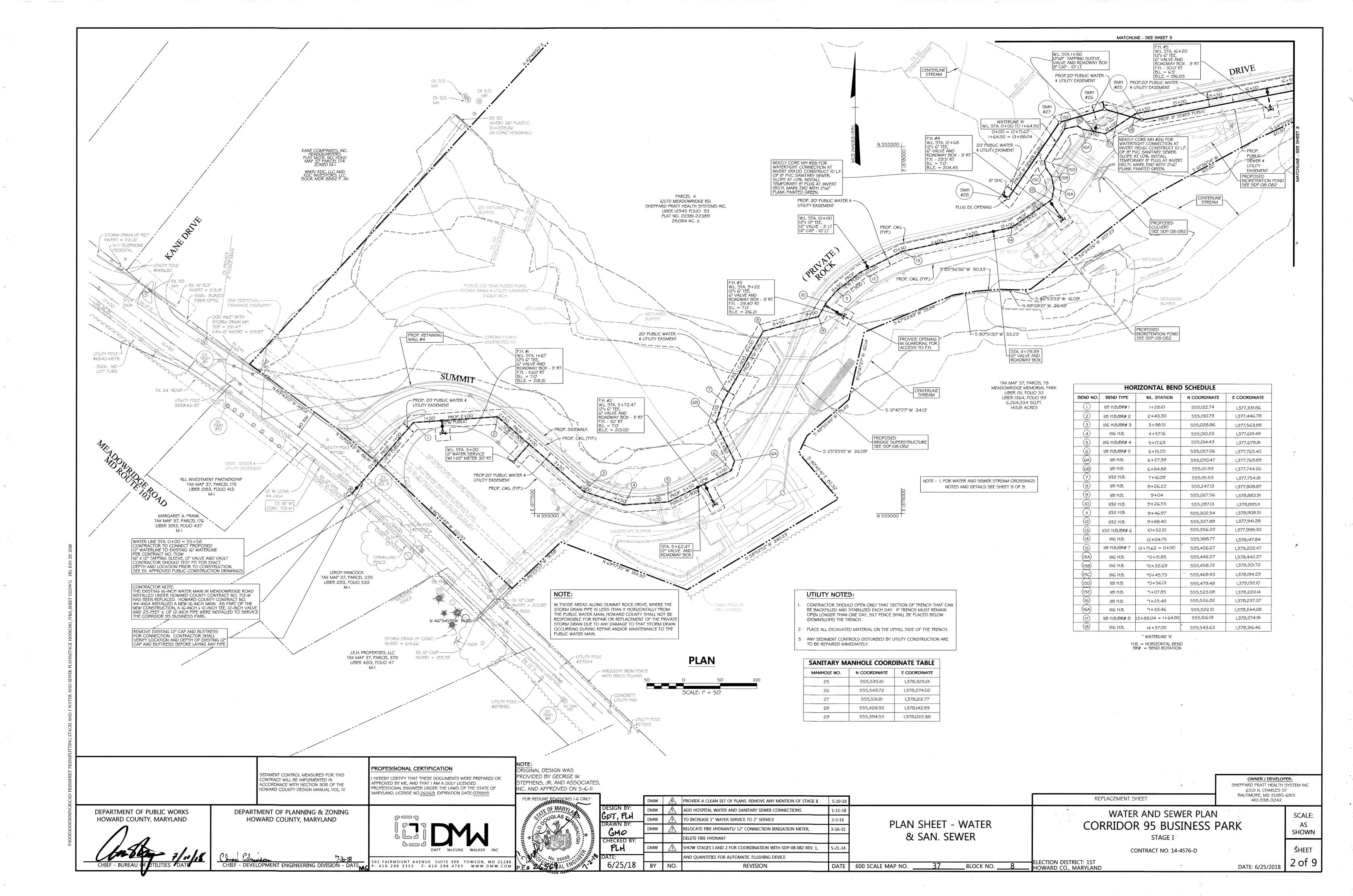
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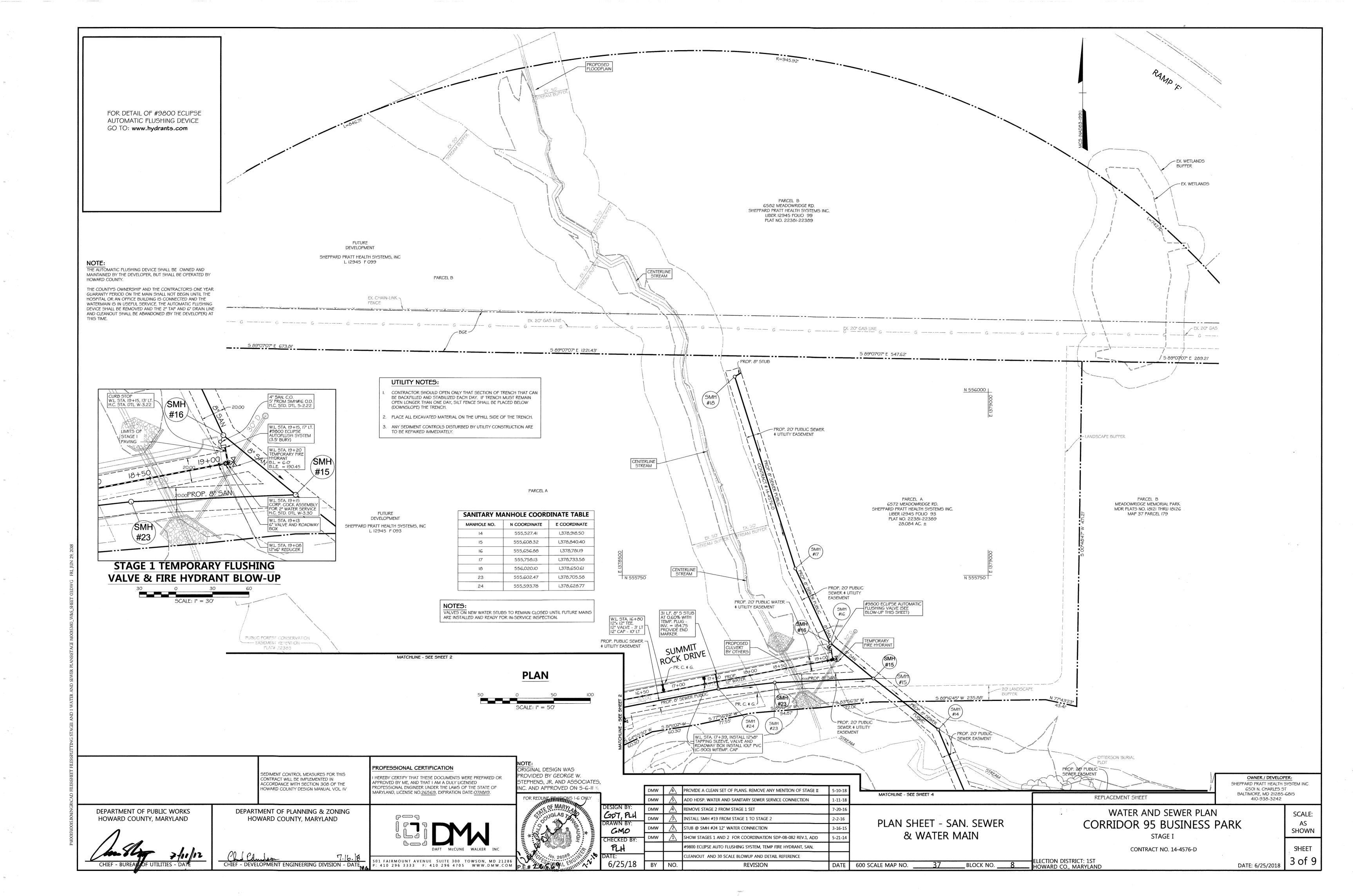
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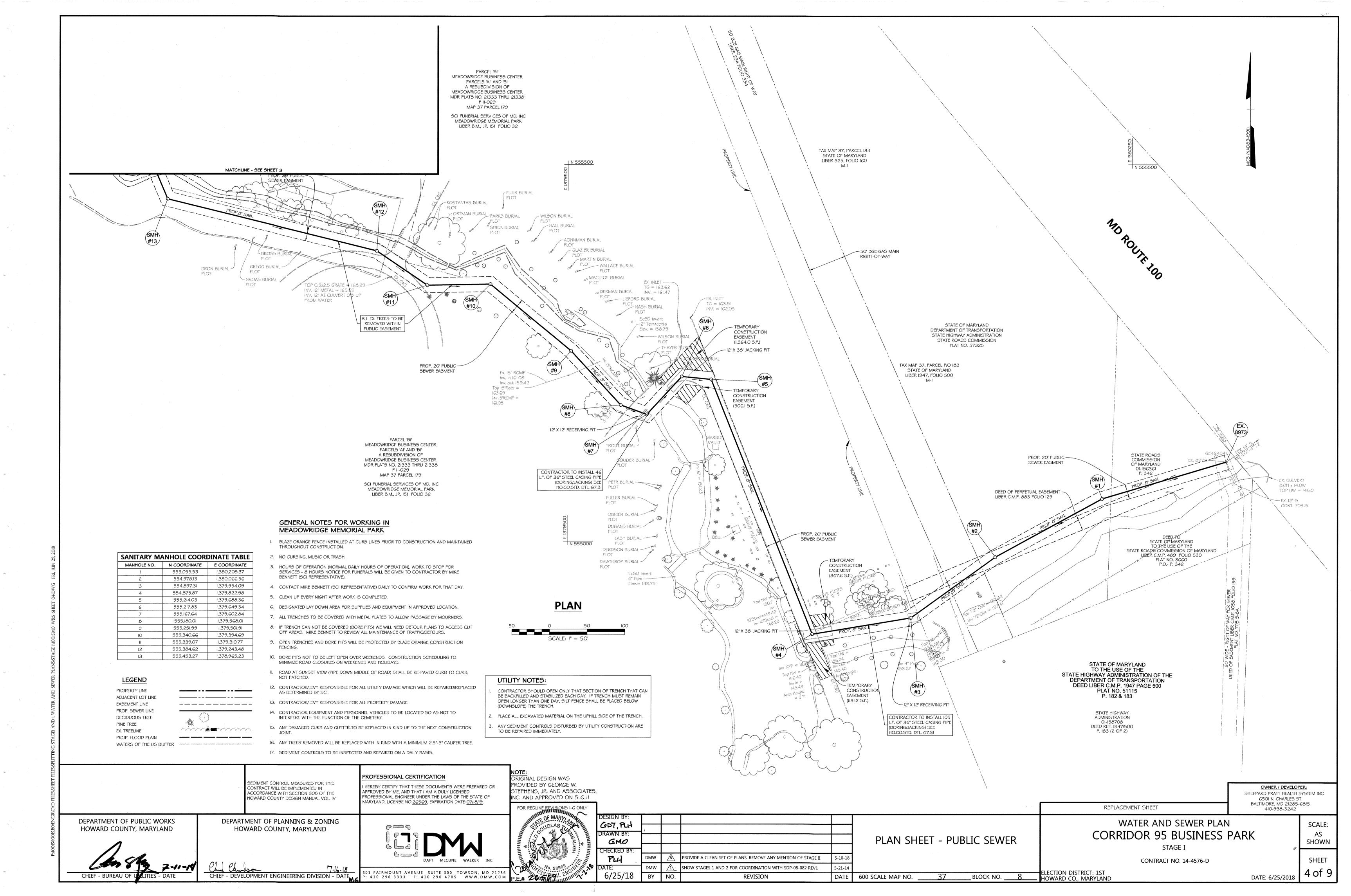
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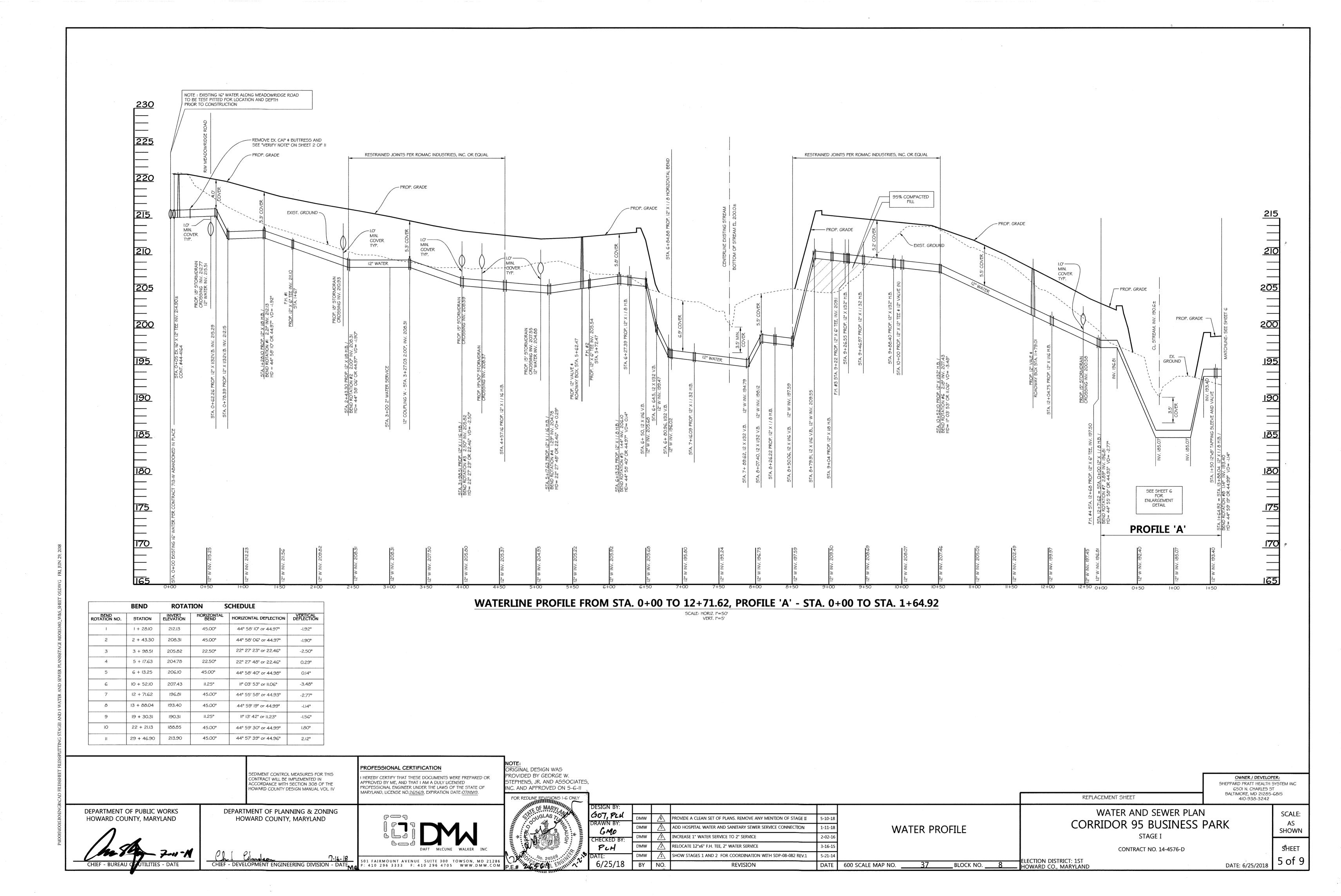
CONTRACT NO. 14-4576-D

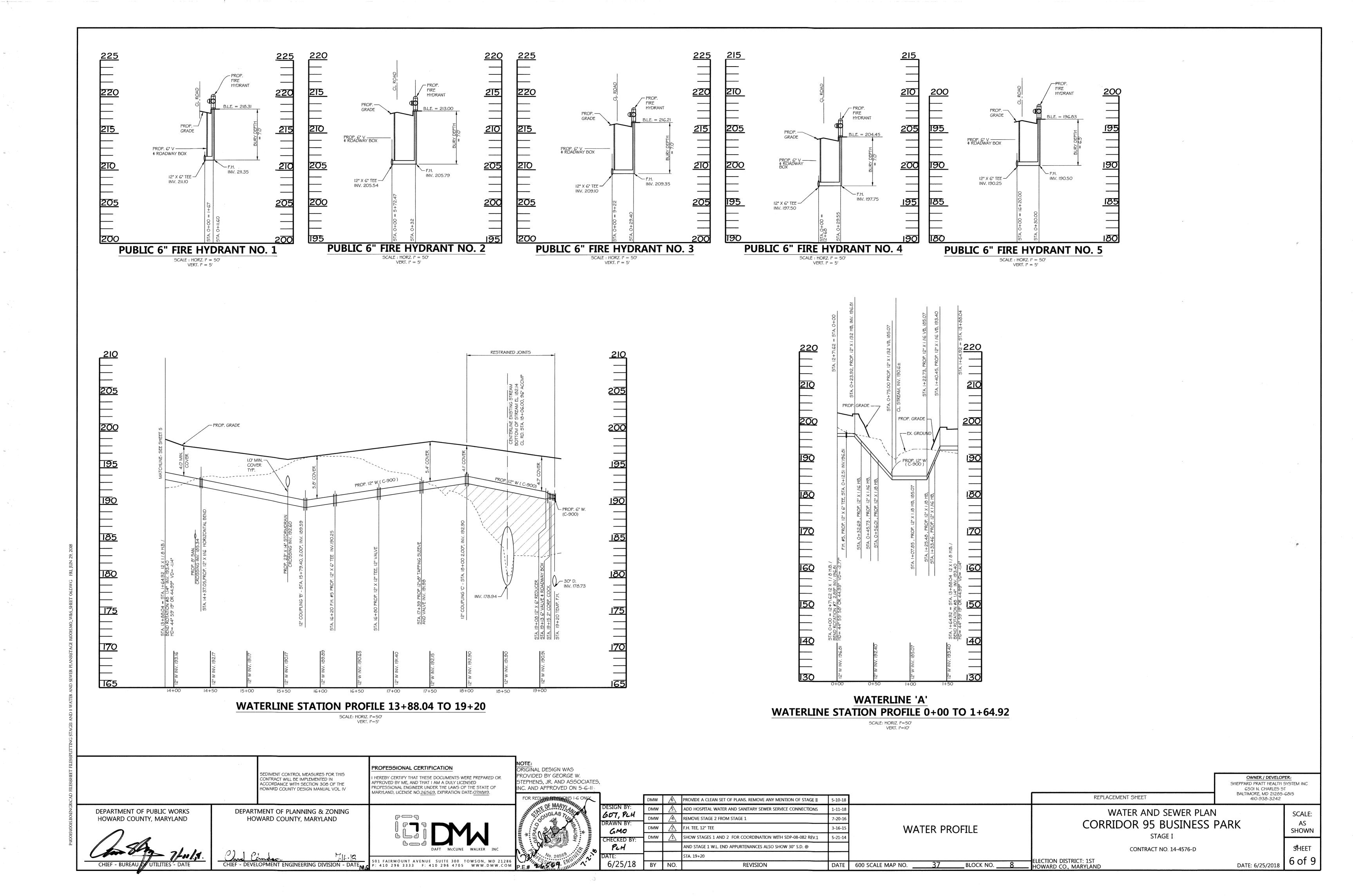
REPLACEMENT SHEET

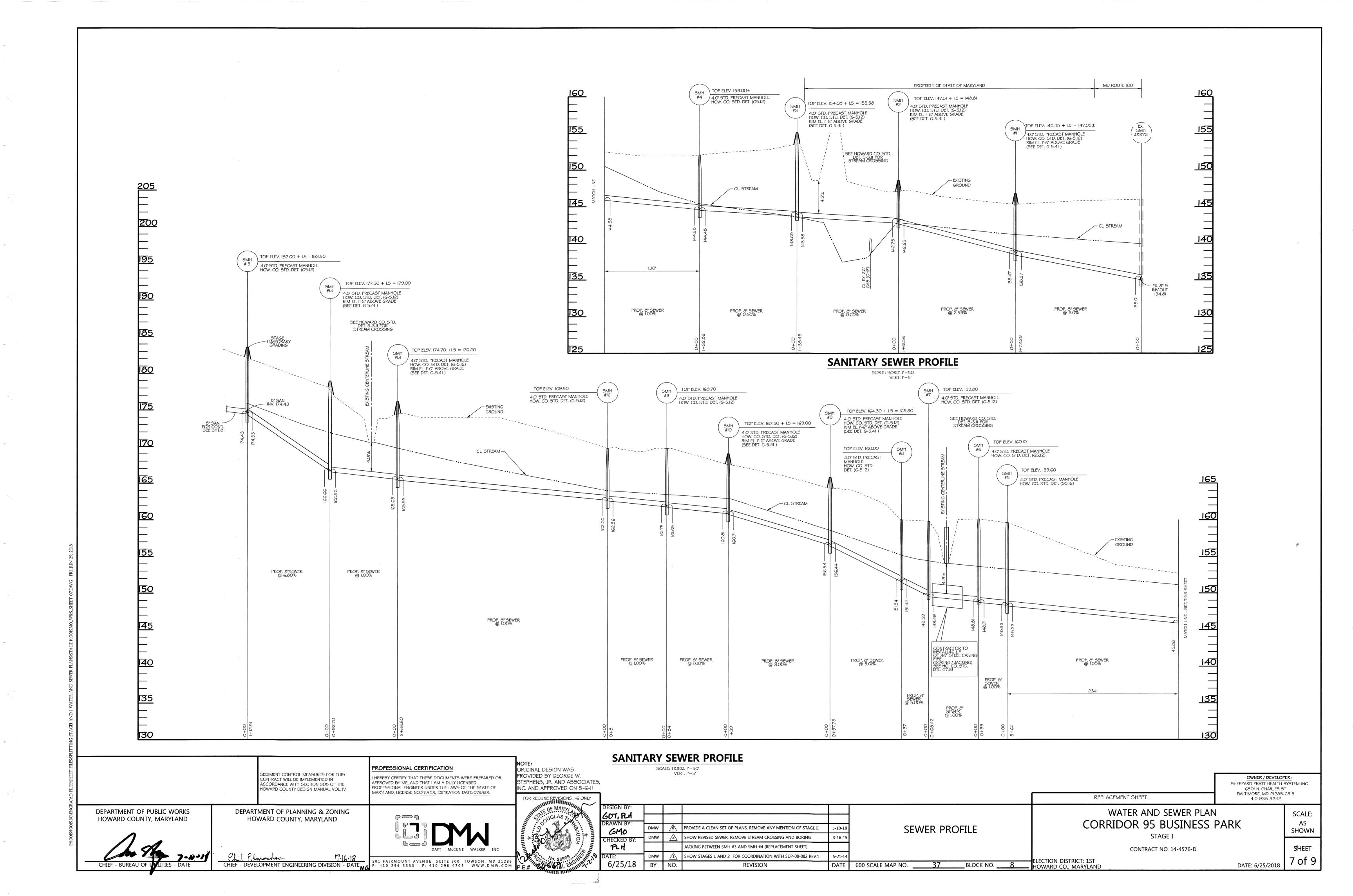


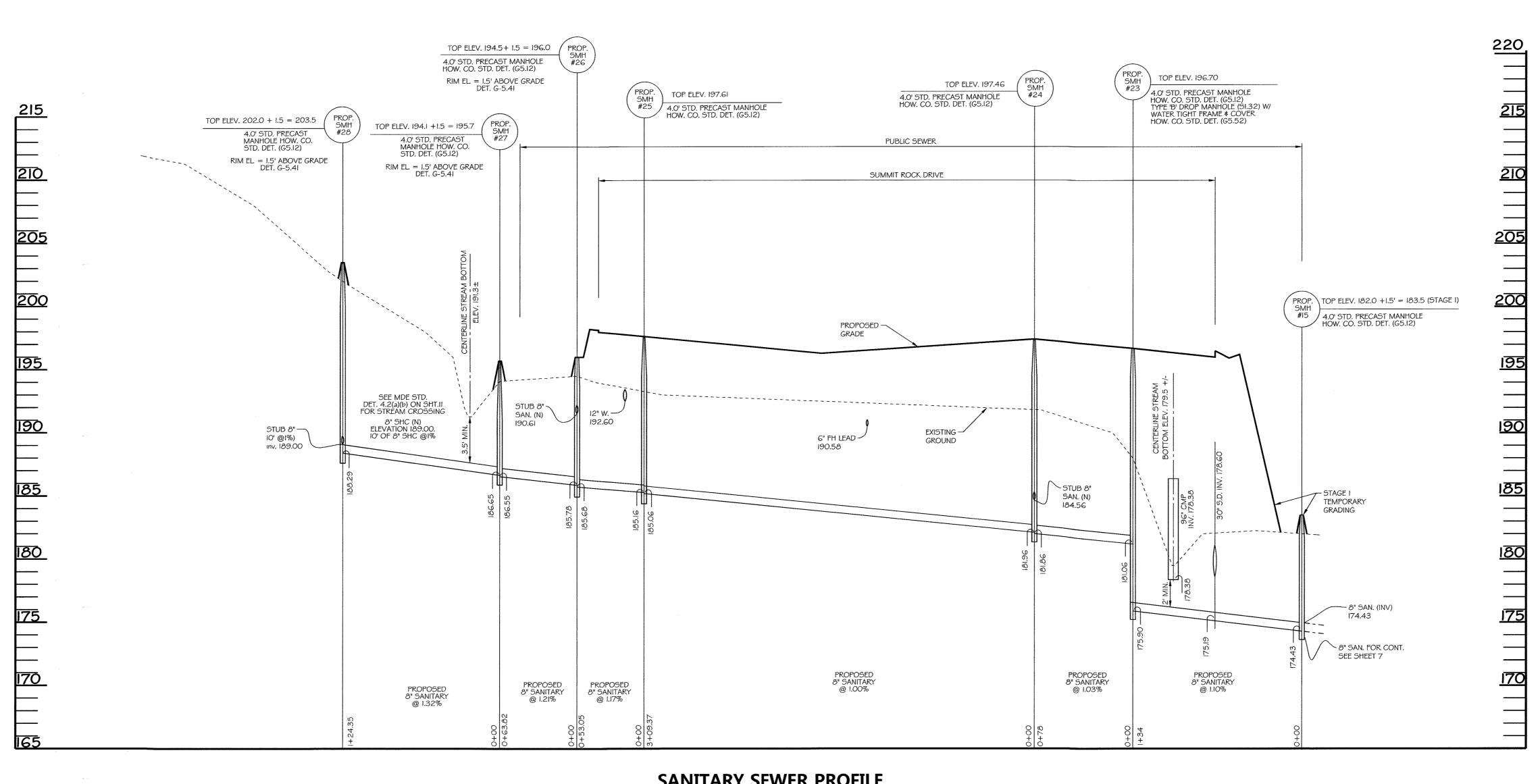








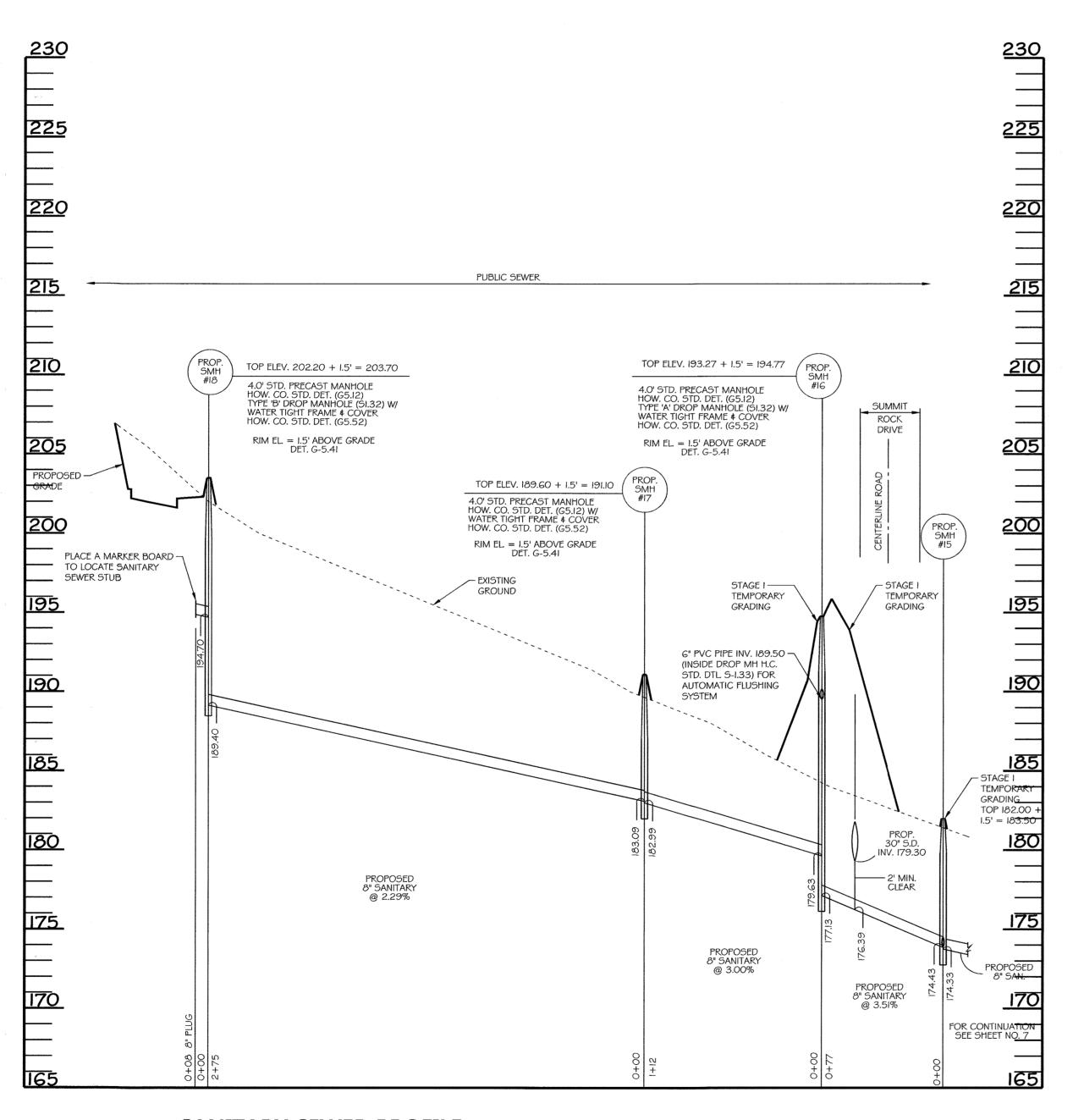




**SANITARY SEWER PROFILE** 

SCALE: HORIZ, I"=50' VERT, I"=5'

PROFESSIONAL CERTIFICATION ORIGINAL DESIGN WAS SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE 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.26569, EXPIRATION DATE:07/18/19. PROVIDED BY GEORGE W. OWNER / DEVELOPER STEPHENS, JR. AND ASSOCIATES, INC. AND APPROVED ON 5-6-11 SHEPPARD PRATT HEALTH SYSTEM INC 6501 N. CHARLES ST BALTIMORE, MD 21285-6815 410-938-3242 HOWARD COUNTY DESIGN MANUAL VOL. IV REPLACEMENT SHEET FOR REDLINE REVISIONS I-6 ONLY DEPARTMENT OF PLANNING & ZONING WATER AND SEWER PLAN DEPARTMENT OF PUBLIC WORKS SCALE: GDT, PLH HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND CORRIDOR 95 BUSINESS PARK SEWER PROFILE SHOWN GMO STAGE I PROVIDE A CLEAN SET OF PLANS. REMOVE ANY MENTION OF STAGE II PLH DMW PROVIDE STUBS AT SMH #24 AND 26 SHEET CONTRACT NO. 14-4576-D DMW SHOW STAGES 1 AND 2 FOR COORDINATION WITH SDP-08-082 REV.1 ELECTION DISTRICT: 1ST HOWARD CO., MARYLAND 501 FAIRMOUNT AVENUE SUITE 300 TOWSON, MD 21286 P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM REVISION DATE 600 SCALE MAP NO. \_\_ BLOCK NO. \_\_\_ DATE: 6/25/2018



## **SANITARY SEWER PROFILE** SCALE: HORIZ. I"=50' VERT. I"=5'

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.26569, EXPIRATION DATE:07/18/19. ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

PROFESSIONAL CERTIFICATION

ORIGINAL DESIGN WAS PROVIDED BY GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC. AND APPROVED ON 5-6-II

> GD1, FLH PROVIDE A CLEAN SET OF PLANS. REMOVE ANY MENTION OF STAGE II INSTALL SMH #19 FROM STAGE 1 TO STAGE 2 GMO SHOW STAGES 1 AND 2 FOR COORDINATION WITH SDP-08-082 REV.1 HECKED BY: PLH NAD SHOW 6" PVC INV. AT SMH #16 FOR DISCHARGE OF AUTOMATIC FLUSHING SYSTEM

> > REVISION

BY NO.

SEWER PROFILE

\_ BLOCK NO. \_

NOTES: EL.

1. SEE DETAIL FOR RIP—RAP PROTECTION OF STREAM BANK.

2. PIPE SHOULD BE LOCATED AS CLOSE TO 90° TO STREAM FLOW AS FEASIBLE. 3. CONSTRUCT SEDIMENT CONTROL DEVICES AS PER CONTRACT DOCUMENTS OR AS DIRECTED.

Howard County, Manyound
Department of Public Works

WATER AND SEWER PLAN

CONTRACT NO. 14-4576-D

SECTION B-B

3-ft (1 m) minimum

SHEPPARD PRATT HEALTH SYSTEM INC 6501 N. CHARLES ST BALTIMORE, MD 21285-6815 REPLACEMENT SHEET 410-938-3242

CORRIDOR 95 BUSINESS PARK

STAGE I

MGWC 4.2: UTILITY CROSSING

Temporary in-stream construction

All construction should take place during stream low flows. The length of construction time should be limited to a maximum of 5 consecutive days for each crossing.

Maryland's Guidelines To Waterway Construction DETAIL 4.2(a): UTILITY CROSSING

6/25/18

600 SCALE MAP NO.

Stream Crossing 3'-6" Clearance

S-3.11

Maryland's Guidelines To Waterway Construction

DETAIL 4.2(b): UTILITY CROSSING

STREAM CHORUNGS PAGE 42 - 9 WATEL MARAGEMENT OF THE SEVENCEMENT OF THE SEVENCEMENT AND REPARTMENT OF THE SEVENCEMENT OF

15 to 24-in (38 to 61-cm)

ELECTION DISTRICT: 1ST HOWARD CO., MARYLAND

SHEET 9 of 9 DATE: 6/25/2018

SCALE:

AS

SHOWN

DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL MEASURES FOR THIS

CONTRACT WILL BE IMPLEMENTED IN

Chil Chilann 7.16-18

CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

501 FAIRMOUNT AVENUE SUITE 300 TOWSON, MD 21286 P: 410 296 3333 F: 410 296 4705 WWW.DMW.COM