

QUANTITIES				
ITEMS	ESTIMATED QUANTITIES	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
16" WATER (PVC C900 DR14)	644 L.F.	702	C900	NATIONAL PIPE
8" WATER (PVC C900 DR14)	995 L.F.	90	C900	NATIONAL PIPE
6" WATER (PVC C900 DR14)	444 L.F.	44	C900	NATIONAL PIPE
FIRE HYDRANT	4 EACH	1	A423	MUELLER
8"x6" TEE & VALVE	3 EACH			
8"x8" TS&V	1 EACH			
8"x8" TEE	1 EACH			
16"x8" TEE	2 EACH	2	C153	TYLER/UNION
16"x6" TEE & VALVE	1 EACH	1	C153	TYLER/UNION
16" CAP & BUTTRESS	1 EACH	1	C153	TYLER/UNION
16" VALVE	2 EACH	2	A236123	MUELLER
8" VALVE	4 EACH	2	A236123	MUELLER
8" CAP & BUTTRESS	2 EACH	1	C153	TYLER/UNION
8" SEWER (PVC)	910 L.F.			
MH (6-5-12)	5 EACH			

NAME OF UTILITY CONTRACTOR: W.F. WILSON
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

SHEET INDEX	
NO.	DESCRIPTION
1	WATER AND SEWER TITLE SHEET
2	WATER AND SEWER PLAN
3	WATER AND SEWER PROFILES
4	SEDIMENT AND EROSION CONTROL PLAN
5	MAINTENANCE OF TRAFFIC PLAN

PROJECT DESCRIPTION

THE PURPOSE OF THIS PLAN IS FOR CONSTRUCTION OF A 6" PUBLIC SEWER MAIN, 8" PUBLIC WATER MAIN AND A 16" PUBLIC WATER MAIN AND ASSOCIATED APPURTENANCES.

CONSTRUCTION NOTE: (CONT. FROM SHEET 1)
9. THESE PLANS SHALL FOLLOW HOWARD COUNTY DESIGN MANUAL VOLUME II WATER AND SEWER AND VOLUME IV STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, APPROVED AND ADOPTED MAY 30, 2017.
10. THE COMPLETED WATER MAINS MUST BE DISINFECTED AND TESTED IN ACCORDANCE WITH THE LATEST VERSION OF AWWA STANDARD C651.
11. AFTER DISINFECTION, A SAMPLE SHALL BE COLLECTED AFTER THE REQUIRED MINIMUM TIME PERIOD. SAMPLES MUST BE COLLECTED BY A STATE-CERTIFIED SAMPLER AND ANALYZED AT A STATE-CERTIFIED LABORATORY. THE SAMPLE RESULTS MUST BE REVIEWED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT WATER SUPPLY PROGRAM, WHICH WILL GIVE AUTHORIZATION TO PLACE THE MAINS INTO SERVICE. A COPY OF THE SAMPLE RESULTS MAY BE SENT VIA EMAIL TO: STEPHANIE.EATINGER@MARYLAND.GOV.

PUBLIC WATER AND SEWER CORRIDOR SQUARE PARCEL A

1ST ELECTION DISTRICT

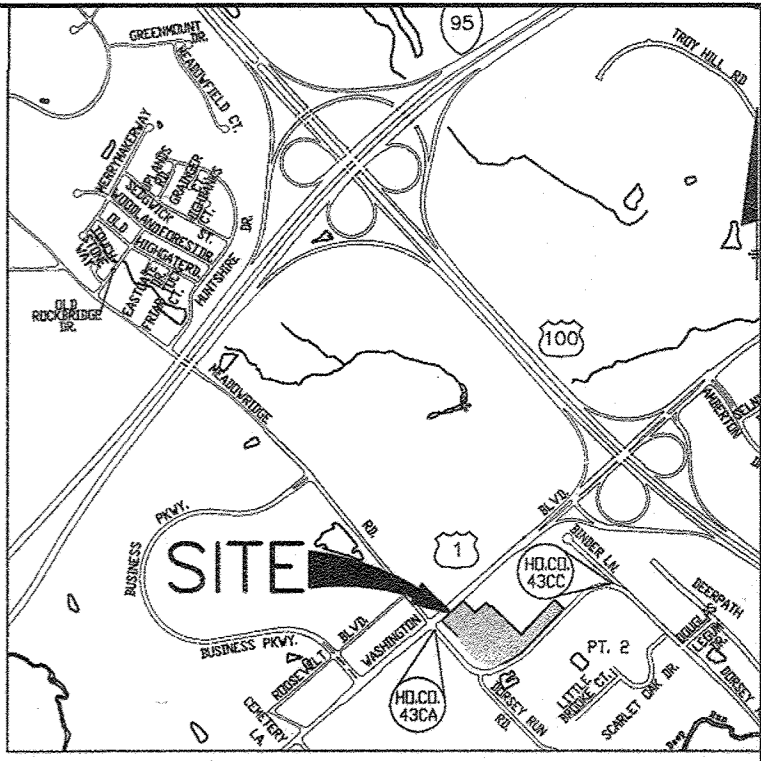
HOWARD COUNTY, MARYLAND

CONTRACT NO.: 14-5029-D-44-5116

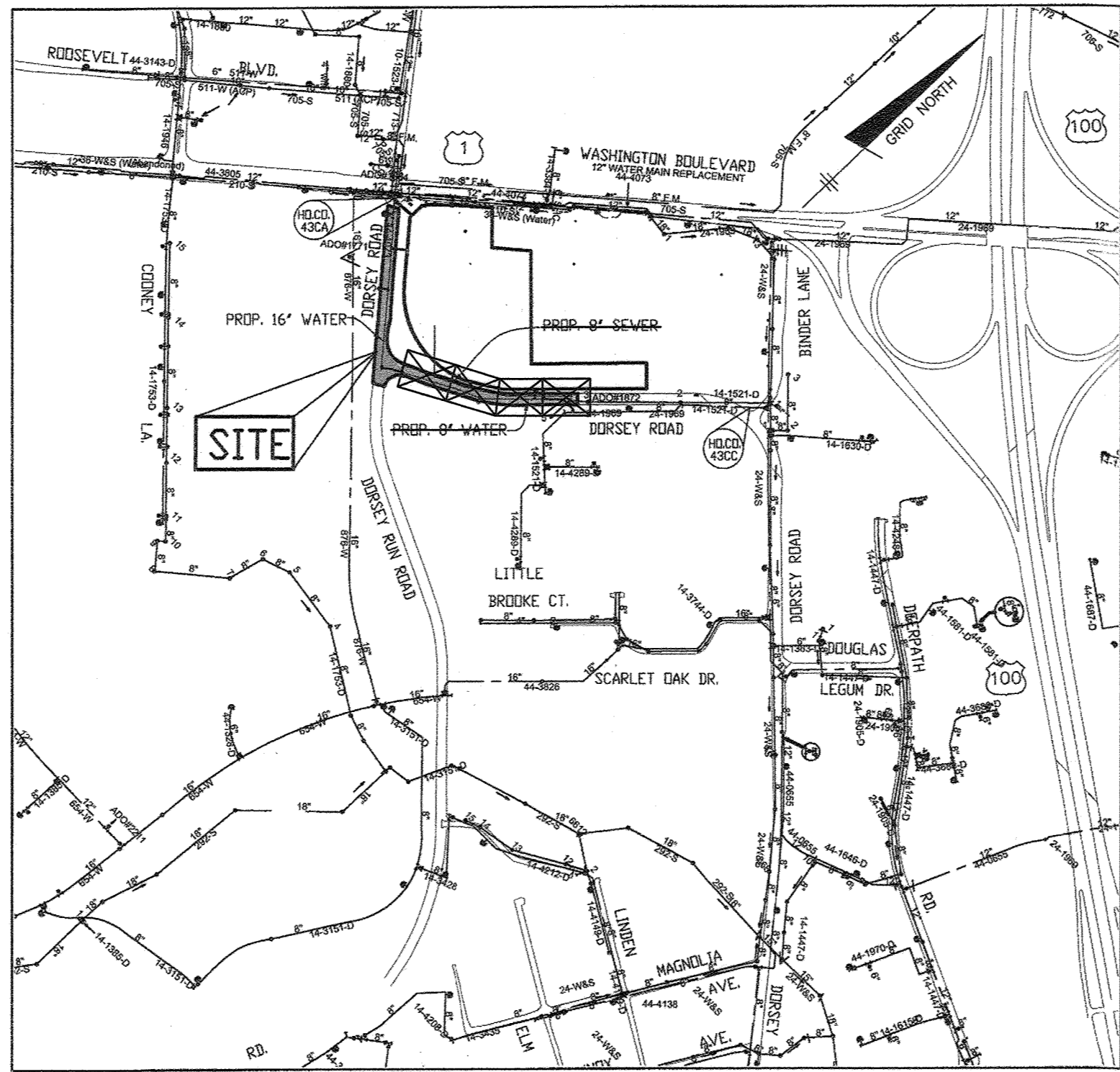
TRAVERSE CHART			
NO.	DESCRIPTION	COORDINATE	ELEVATION
1	R/C	N. 552742.5052 E. 1380706.3780	169.98
2	R/C	N. 552373.9839 E. 1380259.2000	174.73
3	R/C	N. 552089.3228 E. 1379901.6930	177.79
4	R/C	N. 552395.0730 E. 1379503.5100	185.58

BENCH MARKS (NAD'83)
HO.CO. No.43CA ELEV.191.633
STAMPED (BRASS OR ALUMINUM) DISC SET
TOP OF A 3" DEEP COLUMN OF CONCRETE
AT CORNER US-1 AND DORSEY ROAD
N 5526660129 E 13793880300

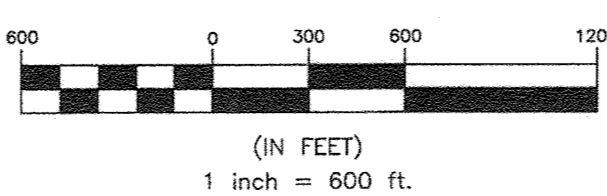
HO.CO. No.43CC ELEV.183.700
CONCRETE MONUMENT WITH BRASS DISC
AT RT-103(DORSEY ROAD)/1/3 MILE US-29
N 553201462 E 1581152814



VICINITY MAP
SCALE: 1" = 2000'
ADC MAP NO. 35 GRID A-5



LOCATION PLAN
SCALE: 1" = 600'



TYPE OF BUILDING:	APARTMENT
NO. OF BUILDABLE PARCELS:	1
NUMBER OF SHEETS:	4
NUMBER OF WH'S:	1
DRAINAGE AREA:	DEEP RUN
TREATMENT PLANT:	PATAPSCO WWTP
WATER ZONE:	400
TEST GRADIENT:	631 - 666 (16")
TEST PRESSURE:	222 (8")
TEST PRESSURE:	198 (16")

LEGEND	
	EXIST. WATER MAIN
	EXIST. FIRE HYDRANT
	EXIST. SEWER MAIN
	EXIST. SEWER MANHOLE
	PROP. PUBLIC SEWER MAIN
	PROP. SEWER MANHOLE
	PROP. PRIVATE SEWER
	PROP. PUBLIC WATER MAIN
	PROP. VALVE
	PROP. FIRE HYDRANT
	PROP. PRIVATE WATER
	EX. FIBEROPTIC
	EX. ELECTRIC
	EX. GAS

Professional Certification. 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. 22390.
Expiration Date: 6-30-2021

OWNER:
CORRIDOR SQUARE, LLC
6800 DEERPATH ROAD
ELK RIDGE, MD 21075
410.579.2442

DEVELOPER:
MURN DEVELOPMENT
6800 DEERPATH ROAD
ELK RIDGE, MD 21075
410.579.2442

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS APPROVED EROSION AND SEDIMENT CONTROL PLAN, INCLUDING INSPECTING AND MAINTAINING CONTROLS, AND THAT THE RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF TRAINING AT A MARYLAND DEPARTMENT OF ENVIRONMENT (MDE) APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT PRIOR TO THE BEGINNING OF THE PROJECT. I CERTIFY RIGHT-OF-ENTRY FOR PERIODIC ON-SITE EVALUATION BY HOWARD COUNTY, THE HOWARD SOIL CONSERVATION DISTRICT AND/OR MDE."

OWNERS/DEVELOPERS SIGNATURE DATE 5/17/21

Sanjay Kulkarni, PM 5/17/21
PRINTED NAME & TITLE DATE

CONSTRUCTION NOTES:

- ALL JOINTS AND CONNECTIONS LOCATED WITHIN STRUCTURAL FILL AREAS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION)
- TESTING SHALL MEET SHA COMPACTION STANDARDS AND REQUIREMENTS AND DONE BY A MARTOP CERTIFIED TECH.
- IF PLATES ARE TO BE USED THEY NEED TO BE MILLED IN WITH 6" PINS IN EACH CORNER. TOTAL OF 4 PINS PER PLATE WITH COLD PATCH AROUND THEM. IF MORE THAN ONE PLATE IS NEEDED THEY WILL NEED TO BE WELDED BY A CERTIFIED WELDER PER SHA SPECS. IF PLATES ARE NOT USED THEN SIGNS WILL BE NEEDED TO INDICATE NO PLATES.
- COLD PATCH MAY BE USED AND GOOD FOR 21 DAYS. HOT MIX ASPHALT WILL NEED TO BE INSTALLED UNTIL THE MILLING AND OVERLAY IS DONE.
- ANY DISTURBANCE IN THE GRASSY AREAS FROM THE INSTALLATION OF THE FIRE HYDRANTS WILL NEED TO BE STABILIZED USING SEED/MULCH OR CURLEX MATTING.
- IF THERE ARE ANY SIDEWALK CLOSURES A DETOUR PLAN WILL NEED TO BE IN PLACE.
- CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF THE TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWN SLOPE OF) THE TRENCH.
- PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH.

NOT IN THIS CONTRACT

PART 1 - GENERAL

- GENERAL NOTES
- APPROXIMATE LOCATION 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.
 - A TOPOGRAPHIC FIELD SURVEY WAS PERFORMED ON NOVEMBER 2016 BY BENCHMARK ENGINEERING, INC.
 - THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM, NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 0070 AND 41C2. ALL VERTICAL CONTROLS ARE BASED ON NAVD 83. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HO.CO. GEODETIC CONTROL STA. 0070 & 41C2.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12" 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 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.
 - 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.
 - 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.
 - 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
BOBE (CONSTRUCTION SERVICES) 410-637-8713
BOBE (EMERGENCY) 410-685-0123
HO. CO. DPW - BUREAU OF UTILITIES 410-313-4900
COLONIAL PIPELINE CO. 410-795-1390
MISS UTILITY 1-800-257-7777
STATE HIGHWAY ADMINISTRATION 410-531-6533
VERIZON 1-800-743-0033
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE FOR 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 DWP REQUIREMENTS PER SECTION 18.114(G) OF THE HOWARD COUNTY CODE.

PART 2 - WATER

- ALL WATER MAINS TO BE PVC C900 DR14 UNLESS OTHERWISE NOTED.
- 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.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACE WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND P.V.C. WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUANTITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF MATERIAL FOR USE. TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL P.V.C. PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORD RECEIVED.
- UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALIC 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 HARNESSSES. 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.
- PROPER ASSEMBLY OF GASKETED P.V.C. PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED P.V.C. 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 P.V.C. PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION INTO THE SPIGOT BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE P.V.C. PIPE.
- ALL CHANGES IN HORIZONTAL AND VERTICAL DIRECTION OF P.V.C. WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS, OR HIGH-DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF P.V.C. PIPE JOINTS IS PERMITTED, WHERE HIGH-DEFLECTION (HD) 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 (HD) COUPLINGS 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 (HD) COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTOR EQUIPMENT DIRECTLY OVER THE FITTING.
- P.V.C. HIGH-DEFLECTION (HD) COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1-1/2 DEGREES ON EITHER END OF THE COUPLING), SHALL BE RATED FOR A MINIMUM OF 200-PSI MEETING THE REQUIREMENTS OF AWWA-C900. SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. P.V.C. HIGH-DEFLECTION (HD) COUPLINGS SHALL BE CERTAIN-TEED P.V.C. HIGH-DEFLECTION (HD) COUPLINGS OR EQUAL.
- 5-DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225-PSI, DR-18 MEETING THE REQUIREMENTS OF AWWA-C900, AND SHALL BE MULTI-FITTING (PEX) BLUE BRUTE DR-18 OR EQUAL.
- WHEN P.V.C. HIGH-DEFLECTION (HD) COUPLINGS OR P.V.C. 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA-C900 P.V.C. PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE P.V.C. SPIGOTS OR PLAN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION (HD) 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 EQUAL.
- FIRE SPRINKLER SYSTEMS FOR ALL SINGLE FAMILY DWELLINGS SHALL HAVE A MINIMUM OF A 1-1/2" CONNECTION WITH A 1" OUTSIDE METER SETTING.

PART 3 - SEWER

- 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 TO BE CHECK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERIGHT FRAME AND COVER, STANDARD DETAIL G-5.52. WHERE WATERIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

AS-BUILTS

SCALE: AS SHOWN
SHEET NO. 1 OF 5
CONTRACT NO. 14-5029-D-44-5116

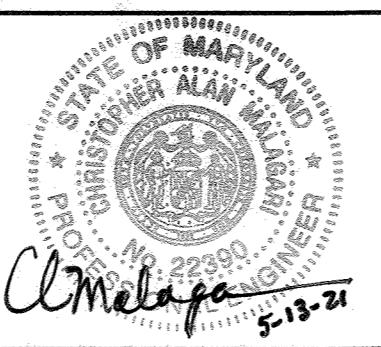
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE 5/24/2021

CHIEF, BUREAU OF ENGINEERING DATE 5/19/2021

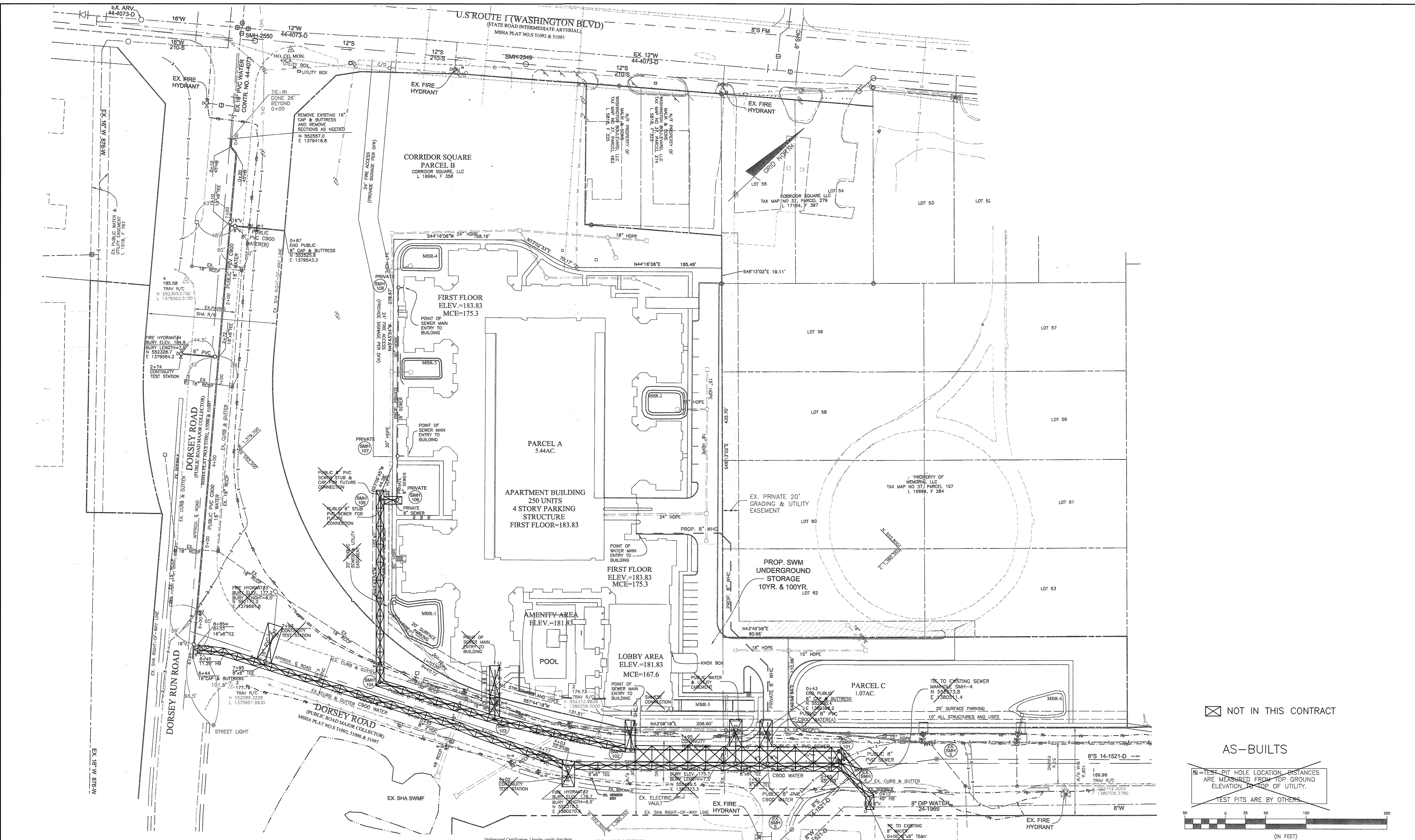
CHIEF, UTILITY DESIGN DIVISION DATE 5/24/2021

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 • ELLOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-8844
WWW.BE-CIVLENGINEERING.COM



DES:	JCO			
DRAFT:	JCO			
CHK:	CAM			
DATE:	AUGUST 2018	BEI 1 AS BUILT	5/2021	
BY:	NO.	REVISIONS	DATE	

WATER AND SEWER TITLE SHEET
600 SCALE MAP # 37 & 43 BLOCK23 & 05

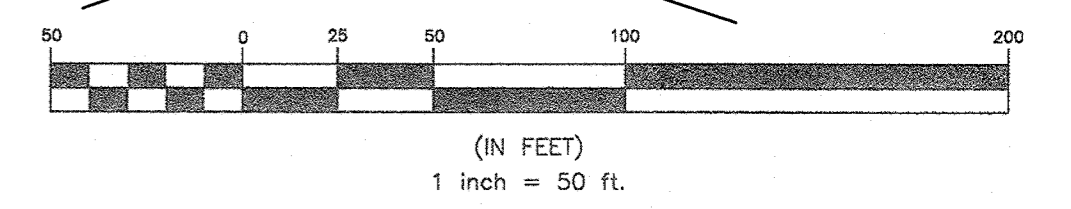


PLAN VIEW
SCALE: 1" = 50'

⊠ NOT IN THIS CONTRACT

AS-BUILTS

⊠ = TEST PIT HOLE LOCATION. DISTANCES ARE MEASURED FROM TOP GROUND ELEVATION TO TOP OF UTILITY.
TEST PITS ARE BY OTHERS



THIS SHEET REPLACES ORIGINAL SHEET 2 OF 5

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Melvin 5/24/2021
DIRECTOR OF PUBLIC WORKS DATE

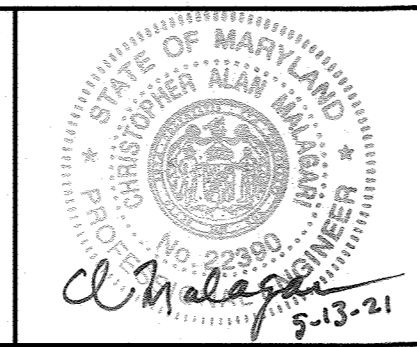
Heath 5/10/21
CHIEF, BUREAU OF ENGINEERING DATE

Don 5/24/2021
CHIEF, BUREAU OF UTILITIES DATE

Don 5/24/2021
CHIEF, UTILITY DESIGN DIVISION DATE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21103
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WWW.BEI-CVLENGINEERING.COM



DES:	JCO				
DRAFT:	JCO				
CHK:	CAM				
DATE:	AUGUST 2018	BEI	1	AS BUILT	5/2021
		BY	NO.	REVISIONS	DATE

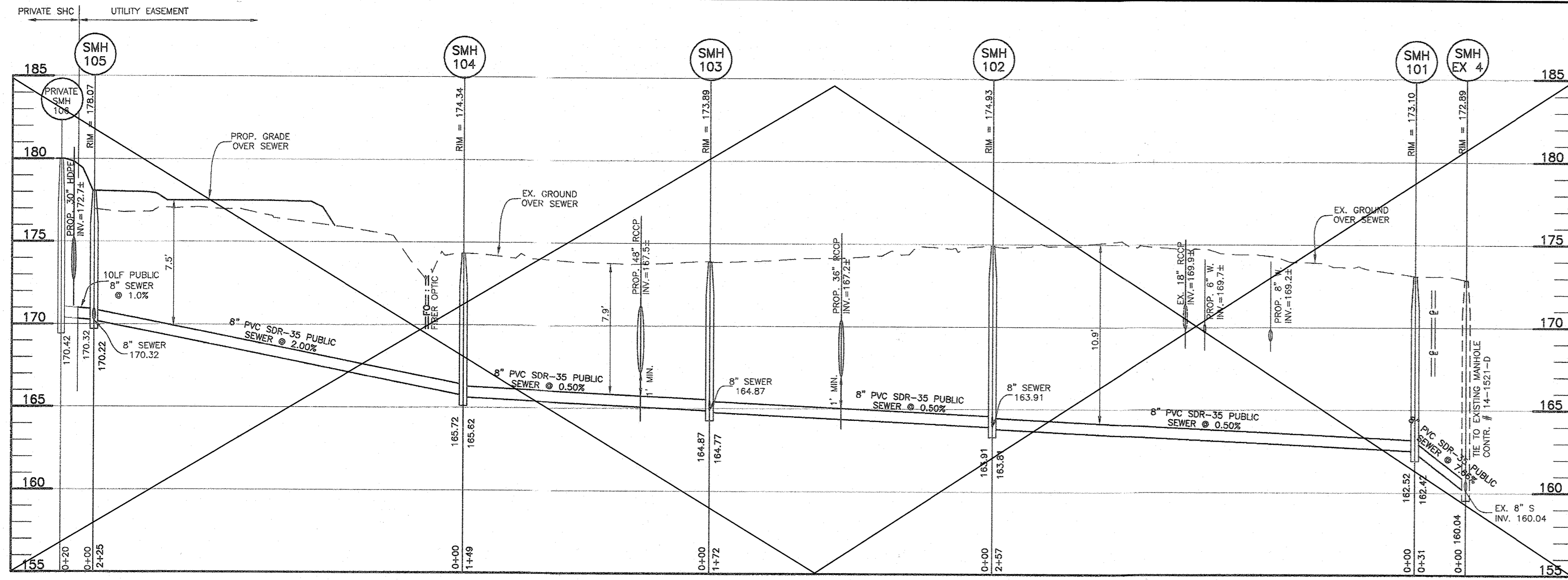
WATER AND SEWER PLAN

600 SCALE MAP #37 & 43
BLOCK23 & 05

CORRIDOR SQUARE
PARCEL A
FIRST ELECTION DISTRICT
CONTRACT NO. 14-5029-D-44-5116

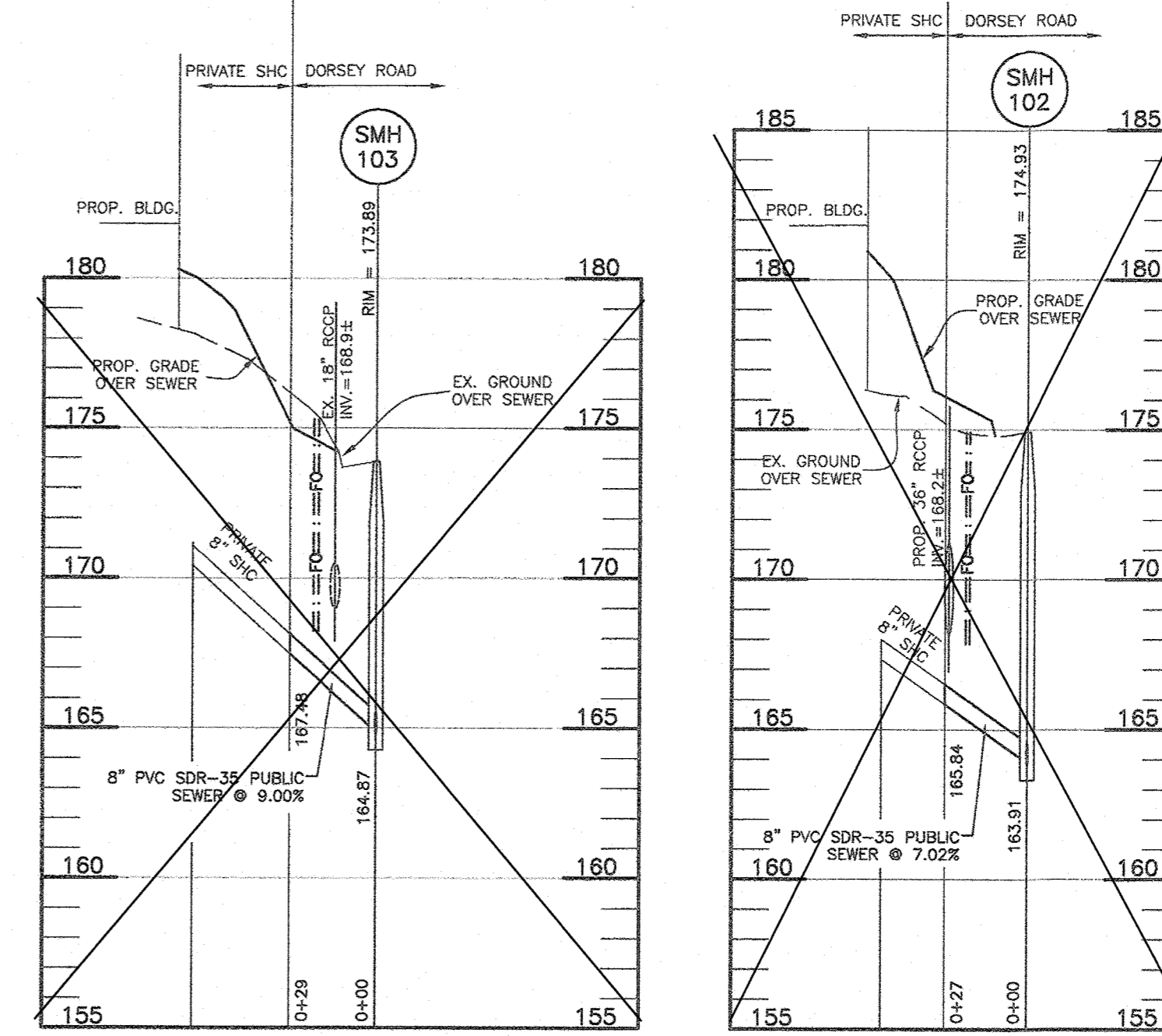
SCALE:
AS SHOWN

SHEET NO.
2 OF 5

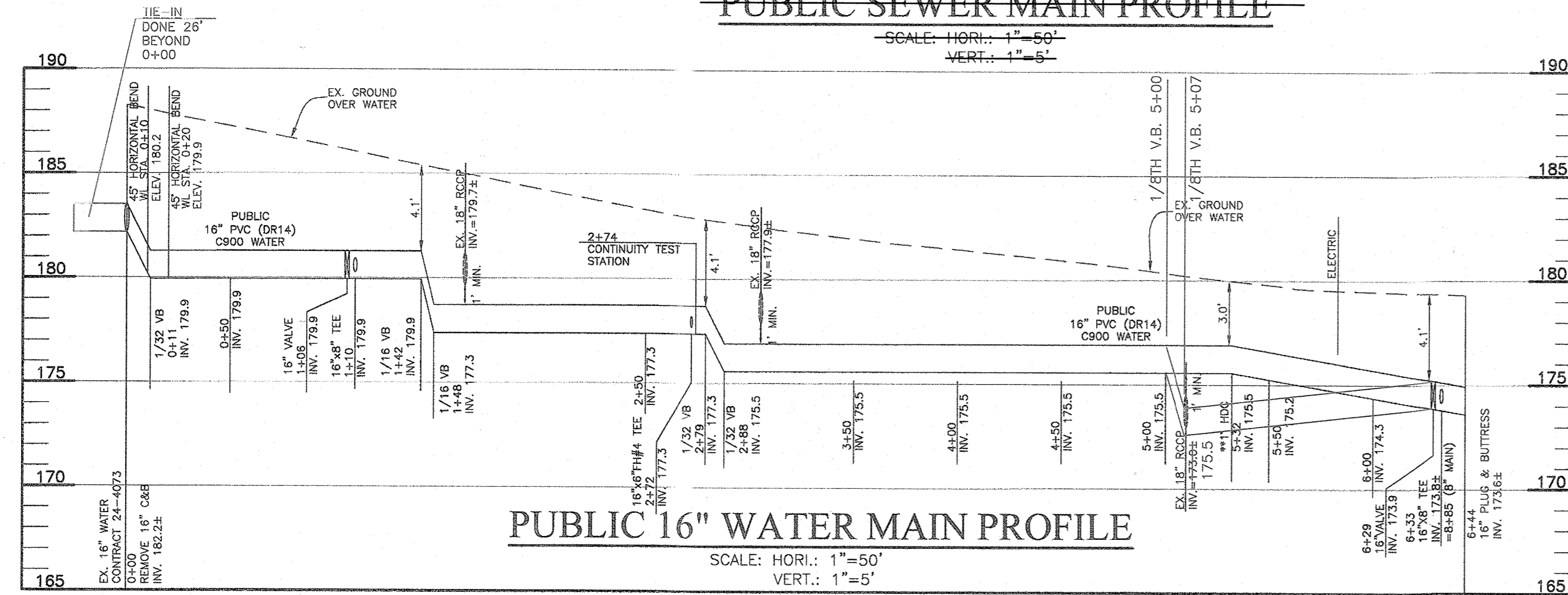


PUBLIC SEWER MAIN PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'

NUMBER	TYPE	LOCATION	INVERT IN	INVERT OUT	TOP ELEV.	STD. DETAIL	OWNER	REMARKS
101	48" MH	N. 552573.06 E. 1380480.35	162.52(8")	162.42(8")	173.10	G-5.12	PUBLIC	
102	48" MH	N. 552389.71 E. 1380300.67	163.91(8") 163.91(8")	163.84(8")	174.93	G-5.12	PUBLIC	
103	48" MH	N. 552294.42 E. 1380497.36	164.87(8") 164.87(8")	164.77(8")	173.89	G-5.12	PUBLIC	
104	48" MH	N. 552224.63 E. 1380025.17	165.72(8")	165.62(8")	174.34	G-5.12	PUBLIC	
105	48" MH	N. 552381.48 E. 1379864.26	170.32(8")	170.22(8")	178.07	G-5.12	PUBLIC	



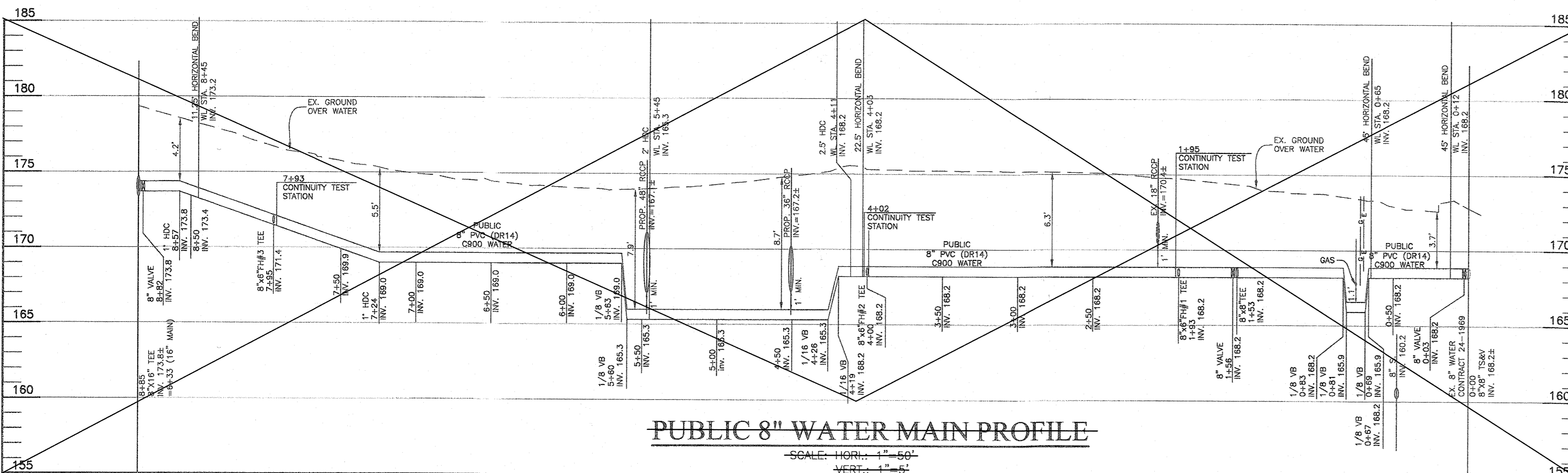
PUBLIC SEWER MAIN PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'



PUBLIC 16" WATER MAIN PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'

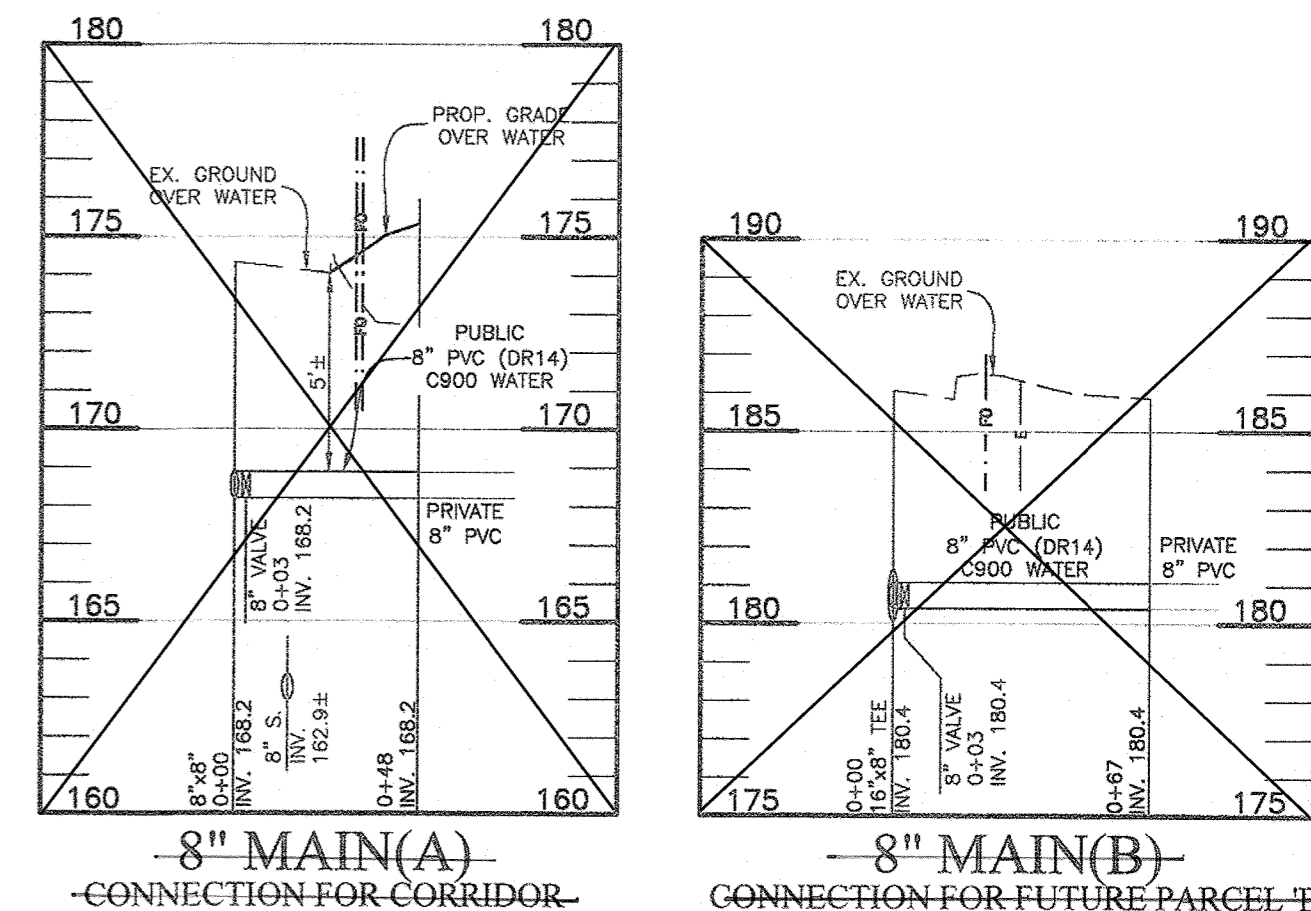
APPURTENANCE	WATER LINE STATION	LOCATION
REMOVE 16" PLUG & BUTTRISS	WL STA. 0+00	N: 552,557.0 E: 1,379,416.8
45° HORIZONTAL BEND	WL STA. 0+10	N: 552,549.4 E: 1,379,423.5
1/32" VB	WL STA. 0+11	N: 552,549.4 E: 1,379,424.4
45° HORIZONTAL BEND	WL STA. 0+20	N: 552,546.7 E: 1,379,433.8
18" VALVE	WL STA. 1+06	N: 552,484.3 E: 1,379,490.0
16"x8" TEE	WL STA. 1+10	N: 552,481.4 E: 1,379,492.5
1/16" VB	WL STA. 1+42	N: 552,457.1 E: 1,379,513.7
1/16" VB	WL STA. 1+98	N: 552,414.9 E: 1,379,550.6
16"x6" TEE	WL STA. 2+72	N: 552,359.2 E: 1,379,599.2
1/32" VB	WL STA. 2+79	N: 552,353.9 E: 1,379,603.8
1/32" VB	WL STA. 2+98	N: 552,347.1 E: 1,379,609.7
**1" VHDG	WL STA. 5+32	N: 552,163.3 E: 1,379,770.2
16" VALVE	WL STA. 6+29	N: 552,090.2 E: 1,379,833.9
16"x6" TEE	WL STA. 6+33	N: 552,086.9 E: 1,379,836.7
18" CAP & BUTTRISS	WL STA. 6+44	N: 552,076.7 E: 1,379,843.9

** FOR 16"-1" VHDG PROVIDE C905 PVC(DR18) EBAA RESTRAINING COUPLING SERIES 3800 OR EQUAL.

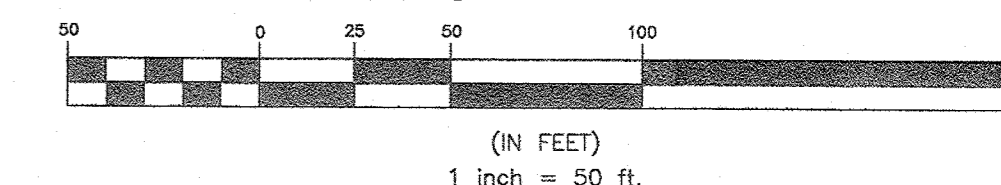


PUBLIC 8" WATER MAIN PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'

APPURTENANCE	WATER LINE	LOCATION
8"x8" TS&V	WL STA. 0+00	N: 552,553.3 E: 1,380,555.9
8" VALVE	WL STA. 0+03	N: 552,555.4 E: 1,380,553.8
45° HORIZONTAL BEND	WL STA. 0+12	N: 552,581.5 E: 1,380,547.4
45° HORIZONTAL BEND	WL STA. 0+65	N: 552,560.2 E: 1,380,494.3
1/8" VB	WL STA. 0+67	N: 552,560.2 E: 1,380,491.8
1/8" VB	WL STA. 0+69	N: 552,560.0 E: 1,380,489.8
1/8" VB	WL STA. 0+81	N: 552,553.1 E: 1,380,480.3
1/8" VB	WL STA. 0+83	N: 552,551.6 E: 1,380,478.9
8"x8" TEE	WL STA. 1+53	N: 552,496.9 E: 1,380,432.7
8" VALVE	WL STA. 1+58	N: 552,493.5 E: 1,380,429.3
8"x6" TEE	WL STA. 1+93	N: 552,468.4 E: 1,380,404.8
8"x6" TEE	WL STA. 4+00	N: 552,320.4 E: 1,380,280.3
22.5° HORIZONTAL BEND	WL STA. 4+03	N: 552,318.2 E: 1,380,258.4
2.5" VHDG	WL STA. 4+11	N: 552,315.0 E: 1,380,256.1
1/16" VB	WL STA. 4+19	N: 552,311.6 E: 1,380,243.9
1/16" VB	WL STA. 4+26	N: 552,308.5 E: 1,380,237.6
2" HDC	WL STA. 5+45	N: 552,229.9 E: 1,380,130.7
1/8" VB	WL STA. 5+60	N: 552,248.6 E: 1,380,117.3
1/8" VB	WL STA. 5+63	N: 552,248.1 E: 1,380,114.7
1" VHDG	WL STA. 7+24	N: 552,170.7 E: 1,379,973.6
8"x6" TEE	WL STA. 7+95	N: 552,136.3 E: 1,379,910.9
11.25° HORIZONTAL BEND	WL STA. 8+45	N: 552,112.1 E: 1,379,888.9
1" VHDG	WL STA. 8+57	N: 552,104.9 E: 1,379,858.2
8" VALVE	WL STA. 8+82	N: 552,088.9 E: 1,379,839.0
8"x16" TEE	WL STA. 8+85	N: 552,086.9 E: 1,379,836.7



PUBLIC WATER MAIN PROFILE
SCALE: HORI.: 1"=50'
VERT.: 1"=5'



NOT IN THIS CONTRACT

OWNER: CORRIDOR SQUARE, LLC
6800 DEERPATH ROAD
ELKRDIDGE, MD 21075
410.579.2442

DEVELOPER: MURN DEVELOPMENT
6800 DEERPATH ROAD
ELKRDIDGE, MD 21075
410.579.2442

AS-BUILTS
THIS SHEET REPLACES ORIGINAL SHEET 3 OF 5

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Muennia 5/24/2021
DIRECTOR OF PUBLIC WORKS DATE

Chief, Bureau of Engineering 5/19/21
Chief, Bureau of Engineering DATE

Chief, Bureau of Utilities 5/24/2021
Chief, Bureau of Utilities DATE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8490 BALTIMORE NATIONAL PIKE & SUITE 315 • ELICOTT CITY, MARYLAND 21043
(P) 410-465-6100 (F) 410-465-6644
WWW.BE-CIVILENGINEERING.COM

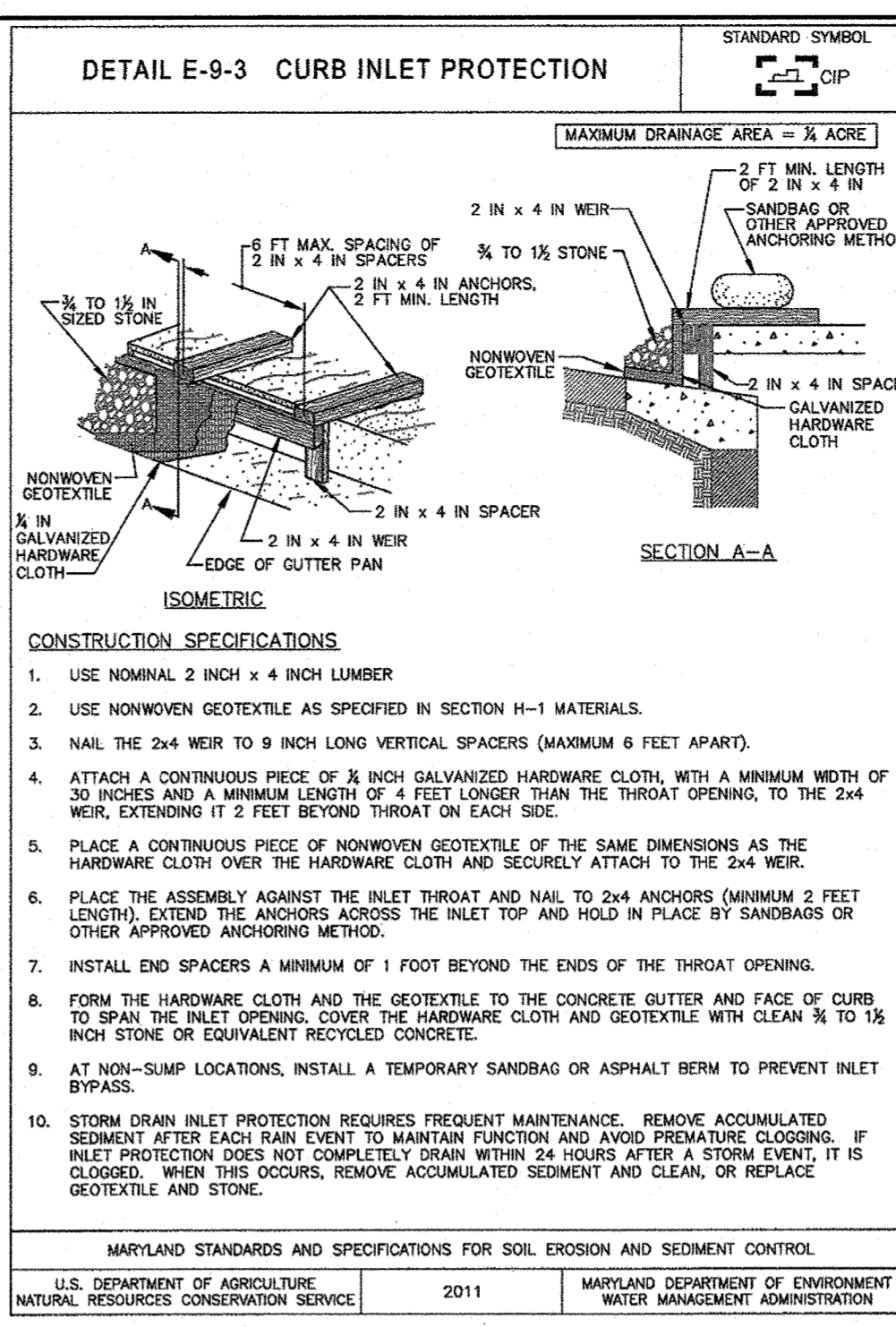
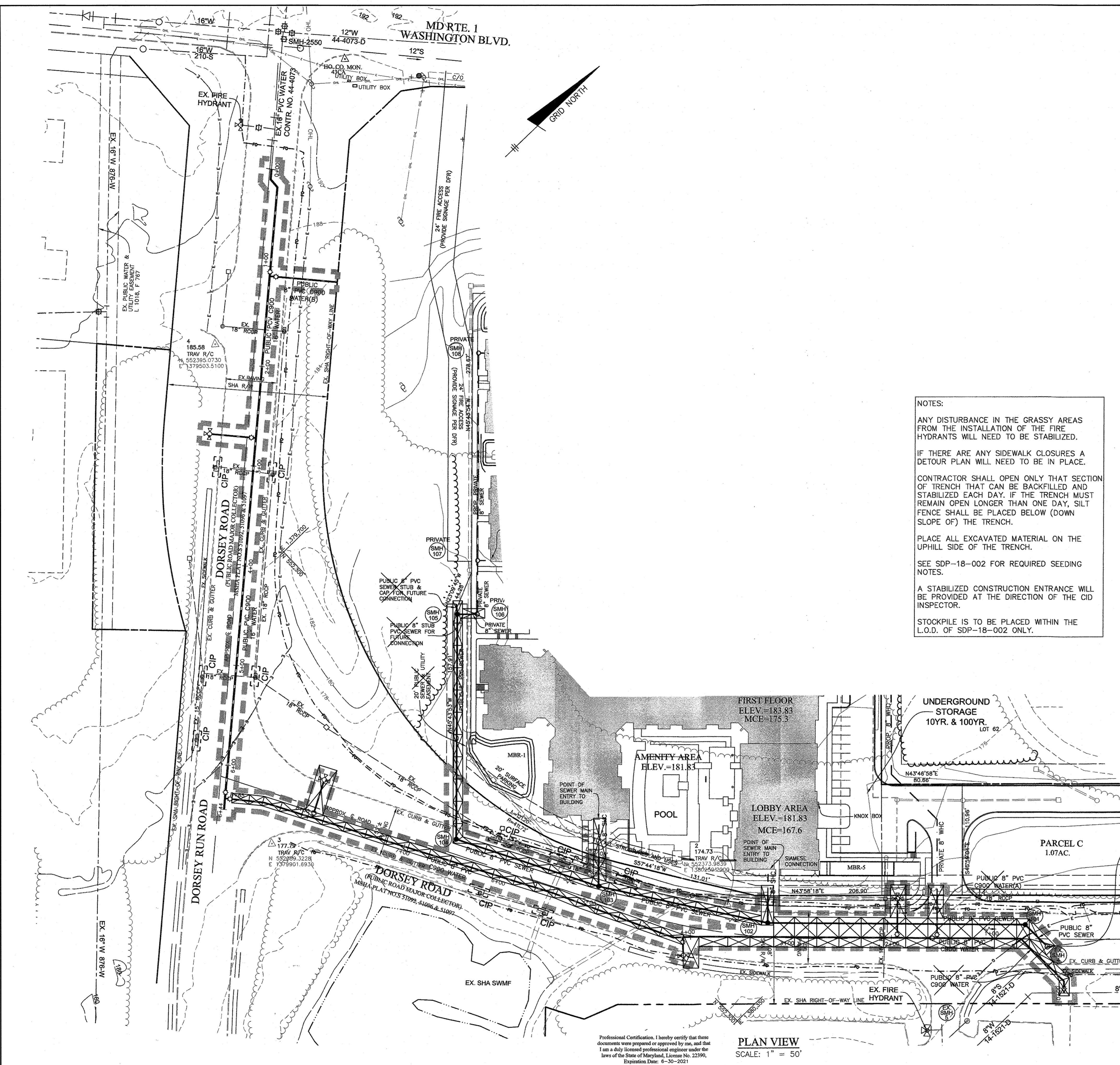
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 22390, Expiration Date: 6-30-2021.

DES:	JCO		
DRAFT:	JCO		
CHK:	CAM		
DATE:	AUGUST 2018		
BY:	NO.	REVISIONS	DATE
	1	AS BUILT	5/2021

WATER AND SEWER PROFILES
600 SCALE MAP # 37 & 43
BLOCK 23 & 05

CORRIDOR SQUARE PARCEL A
FIRST ELECTION DISTRICT
CONTRACT NO. 14-5029-D 44-5116

SCALE: AS SHOWN
SHEET NO. 3 OF 5



NOTES:

ANY DISTURBANCE IN THE GRASSY AREAS FROM THE INSTALLATION OF THE FIRE HYDRANTS WILL NEED TO BE CLOURED.

IF THERE ARE ANY SIDEWALK STABILIZERS A DETOUR PLAN WILL NEED TO BE IN PLACE.

CONTRACTOR SHALL OPEN ONLY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED EACH DAY. IF THE TRENCH MUST REMAIN OPEN LONGER THAN ONE DAY, SILT FENCE SHALL BE PLACED BELOW (DOWN SLOPE OF) THE TRENCH.

PLACE ALL EXCAVATED MATERIAL ON THE UPHILL SIDE OF THE TRENCH.

SEE SDP-18-002 FOR REQUIRED SEEDING NOTES.

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE DIRECTION OF THE CID INSPECTOR.

STOCKPILE IS TO BE PLACED WITHIN THE L.O.D. OF SDP-18-002 ONLY.

ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION 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.

Cl Malaga 8/20/18
ENGINEER DATE

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

M. Taylor 8/20/18
DEVELOPER DATE

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

Richard A. ... 8/20/18
HOWARD SOIL CONSERVATION DISTRICT DATE

- ### STANDARD SEDIMENT CONTROL NOTES
- A PRE-CONSTRUCTION MEETING MUST OCCUR WITH THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, CONSTRUCTION INSPECTION DIVISION (CID), 410-313-1855 AFTER THE FUTURE LOD AND PROTECTED AREAS ARE MARKED CLEARLY IN THE FIELD. A MINIMUM OF 48 HOUR NOTICE TO CID MUST BE GIVEN AT THE FOLLOWING STAGES:
 - PRIOR TO THE START OF EARTH DISTURBANCE.
 - UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
 - PRIOR TO THE START OF ANOTHER PHASE OF CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT.
 - PRIOR TO THE REMOVAL OR MODIFICATION OF SEDIMENT CONTROL PRACTICES.
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND REVISIONS THEREOF.
 - FOLLOWING INITIAL SOIL DISTURBANCE AND RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION IS REQUIRED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED AREAS ON THE PROJECT SITE EXCEPT FOR THOSE AREAS UNDER ACTIVE GRADING.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR TOPSOIL (SEC. B-4-2), PERMANENT SEEDING (SEC. B-4-5), TEMPORARY SEEDING (SEC. B-4-4) AND MULCHING (SEC. B-4-3). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE APPLIED BETWEEN THE FALL AND SPRING SEEDING DATES IF THE GROUND IS FROZEN. INCREMENTAL STABILIZATION (SEC. B-4-1) SPECIFICATIONS SHALL BE ENFORCED IN AREAS WITH >15' OF CUT AND/OR FILL. STOCKPILES (SEC. B-4-8) IN EXCESS OF 20 FT. MUST BE BENCHED WITH STABLE OUTLET. ALL CONCENTRATED FLOW, STEEP SLOPE, AND HIGHLY ERODIBLE AREAS SHALL RECEIVE SOIL STABILIZATION MATTING (SEC. B-4-6).
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE, AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE CID.
 - SITE ANALYSIS:**

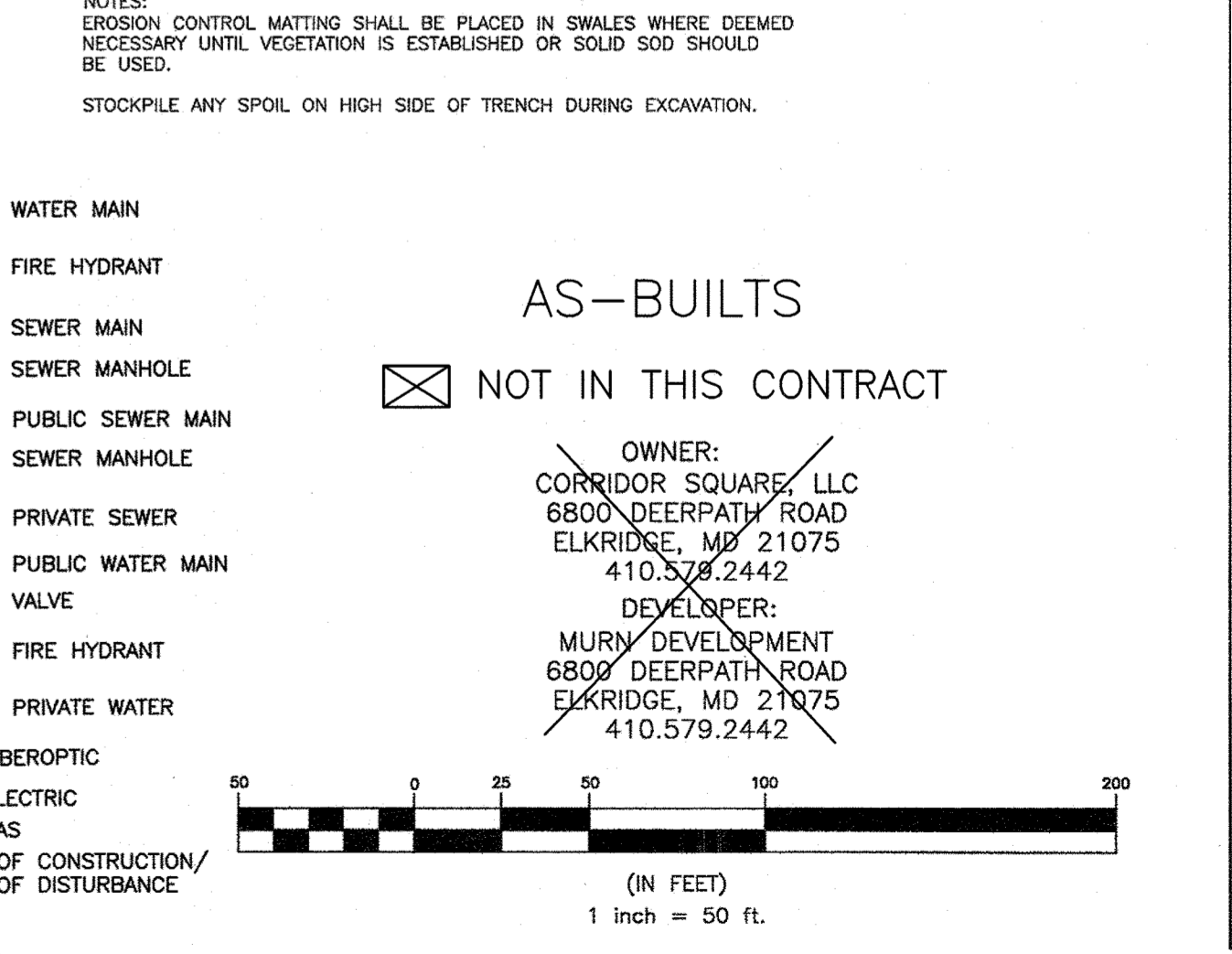
TOTAL AREA OF SITE:	1.2	ACRES
AREA DISTURBED:	1.2	ACRES
AREA TO BE ROOFED OR PAVED:	0.1	ACRES
AREA TO BE VEGETATIVELY STABILIZED:	0.1	ACRES
TOTAL CUT:	5,500	CU. YDS.
TOTAL FILL:	5,500	CU. YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE CID, THE SITE AND ALL CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR WEEKLY; AND THE NEXT DAY AFTER EACH RAIN EVENT. A WRITTEN REPORT BY THE CONTRACTOR, MADE AVAILABLE UPON REQUEST, IS PART OF EVERY INSPECTION AND SHOULD INCLUDE:
 - INSPECTION DATE
 - INSPECTION TYPE (ROUTINE, PRE-STORE EVENT, DURING RAIN EVENT)
 - NAME AND TITLE OF INSPECTOR
 - WEATHER INFORMATION (CURRENT CONDITIONS AS WELL AS TIME AND AMOUNT OF LAST RECORDED PRECIPITATION)
 - BRIEF DESCRIPTION OF PROJECT'S STATUS (E.G., PERCENT COMPLETE) AND/OR CURRENT ACTIVITIES
 - EVIDENCE OF SEDIMENT DISCHARGES
 - IDENTIFICATION OF PLAN DEFICIENCIES
 - IDENTIFICATION OF SEDIMENT CONTROLS THAT REQUIRE MAINTENANCE
 - IDENTIFICATION OF MISSING OR IMPROPERLY INSTALLED SEDIMENT CONTROLS
 - COMPLIANCE STATUS REGARDING THE SEQUENCE OF CONSTRUCTION AND STABILIZATION REQUIREMENTS
 - PHOTOGRAPHS
 - MONITORING/SAMPLING
 - MAINTENANCE AND/OR CORRECTIVE ACTION PERFORMED
 - OTHER INSPECTION ITEMS AS REQUIRED BY THE GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES (NPDES, NPDES)
 - TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN AND SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKDAY, WHICHEVER IS SHORTER.
 - ANY MAJOR CHANGES OR REVISIONS TO THE PLAN OR SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE HSCD PRIOR TO PROCEEDING WITH CONSTRUCTION. MINOR REVISIONS MAY ALLOWED BY THE CID PER THE LIST OF HSCD-APPROVED FIELD CHANGES.
 - DISTURBANCE SHALL NOT OCCUR OUTSIDE THE L.O.D. A PROJECT IS TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 AC. PER GRADING UNIT) AT A TIME. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE CID, UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE HSCD. NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
 - WASH WATER FROM ANY EQUIPMENT, VEHICLES, WHEELS, PAVEMENT, AND OTHER SOURCES MUST BE TREATED IN A SEDIMENT BASIN OR OTHER APPROVED WASHOUT STRUCTURE.
 - TOPSOIL SHALL BE STOCKPILED AND PRESERVED ON-SITE FOR REDISTRIBUTION ONTO FINAL GRADE.
 - ALL SILT FENCE AND SUPER SILT FENCE SHALL BE PLACED ON-THE-CONTOUR, AND BE IMBRICATED AT 25' MINIMUM INTERVALS, WITH LOWER ENDS CURLED UPHILL BY 2' IN ELEVATION.
 - STREAM CHANNELS MUST NOT BE DISTURBED DURING THE FOLLOWING RESTRICTED TIME PERIODS (INCLUSIVE):
 - USE I AND IP MARCH 1 - JUNE 15
 - USE III AND IIP OCTOBER 1 - APRIL 30
 - USE IV MARCH 1 - MAY 31
 - A COPY OF THIS PLAN, THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, AND ASSOCIATED PERMITS SHALL BE ON-SITE AND AVAILABLE WHEN THE SITE IS ACTIVE.
- REV. 8/2015
- * IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY THE SPOIL/BORROW SITE AND NOTIFY AND GAIN APPROVAL FROM THE SEDIMENT CONTROL INSPECTOR OF THE SITE AND ITS GRADING PERMIT NUMBER AT THE TIME OF CONSTRUCTION.

SEQUENCE OF CONSTRUCTION

NOTIFY SEDIMENT CONTROL DIVISION 48 HOUR PRIOR TO START OF CONSTRUCTION

1.) OBTAIN GRADING PERMIT.	1 DAY
2.) DURING CONSTRUCTION AND ONCE UTILITIES ARE INSTALLED FOLLOW CONSTRUCTION NOTES ON SHEET 1.	ONGOING
3.) INSTALL INLET PROTECTIONS AS SHOWN ON THIS SHEET.	3 DAYS
4.) INSTALL SEWER MAIN FROM EXISTING MANHOLE SMH-4 TO SMH-104 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104-03-05.	2 WEEKS
5.) WITH SEWER MAIN INSTALLED UP TO THE R/W LINE, REMOVE TRAFFIC CONTROLS AND COMPLETE PATCH ROADWAY.	2 DAYS
6.) INSTALL 8" WATER MAIN WATERLINE STATION 0+00 TO 0+86 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104-03-03.	2 WEEKS
7.) REMOVE TRAFFIC CONTROLS AND COMPLETE PATCH ROADWAY.	2 DAYS
8.) NOTIFY HOWARD COUNTY TO CLOSE EXISTING 16" VALVE AT ROUTE 1 TO 6+44 DORSEY ROAD AND INSTALL 16" WATER MAIN WATERLINE STATION 0+00 TO 6+44 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104-03-04.	2 WEEKS
9.) INSTALL 8" WATER MAIN FROM 16"X6" TEE TO R/W LINE WATERLINE STATION 0+07 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104-02-10.	2 DAYS
10.) INSTALL FIRE HYDRANT FROM 16"X6" TEE WATERLINE STATION 2+72 AND UTILIZE TRAFFIC CONTROL DETAIL SHA MD 104-03-05.	2 DAYS
11.) PLACE ALL WATER MAINS INTO SERVICE.	ONGOING
12.) PATCH, REPLACE AND RESURFACE ALONG DORSEY ROAD WAS REQUIRED.	ONGOING
13.) WITH INSPECTORS APPROVAL REMOVE ALL INLET PROTECTION.	1 DAY

NOTES:
EROSION CONTROL MATTING SHALL BE PLACED IN SWALES WHERE DEEMED NECESSARY UNTIL VEGETATION IS ESTABLISHED OR SOLID SOD SHOULD BE USED.
STOCKPILE ANY SPOIL ON HIGH SIDE OF TRENCH DURING EXCAVATION.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

M. ... 5/24/2011
DIRECTOR OF PUBLIC WORKS DATE

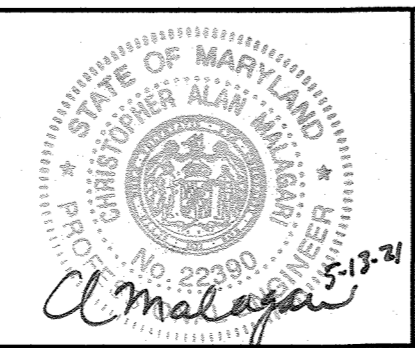
H. ... 5/17/21
CHIEF, BUREAU OF ENGINEERING DATE

N. ... 5/24/2011
CHIEF, BUREAU OF UTILITIES DATE

S. ... 5/24/2011
CHIEF, UTILITY DESIGN DIVISION DATE

BENCHMARK ENGINEERING, INC.
ENGINEERS & LAND SURVEYORS & PLANNERS

8430 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043
(P) 410-485-8105 (F) 410-485-6644
WWW.BE-CVLENGINEERING.COM



DES: JCO
DRAFT: JCO
CHK: CAM
DATE: AUGUST 2018

BY	NO.	REVISIONS	DATE
	1	AS BUILT	5/2021

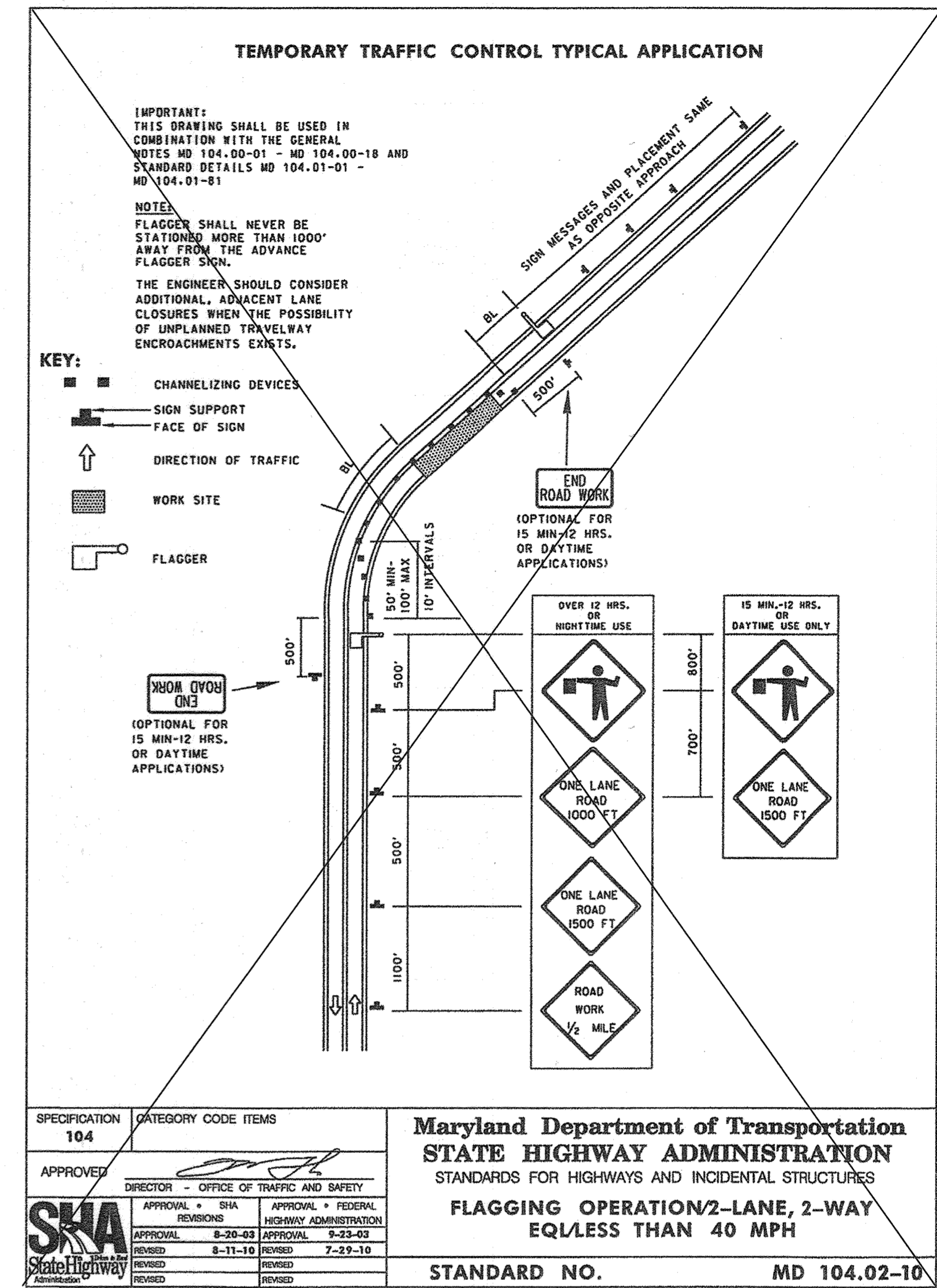
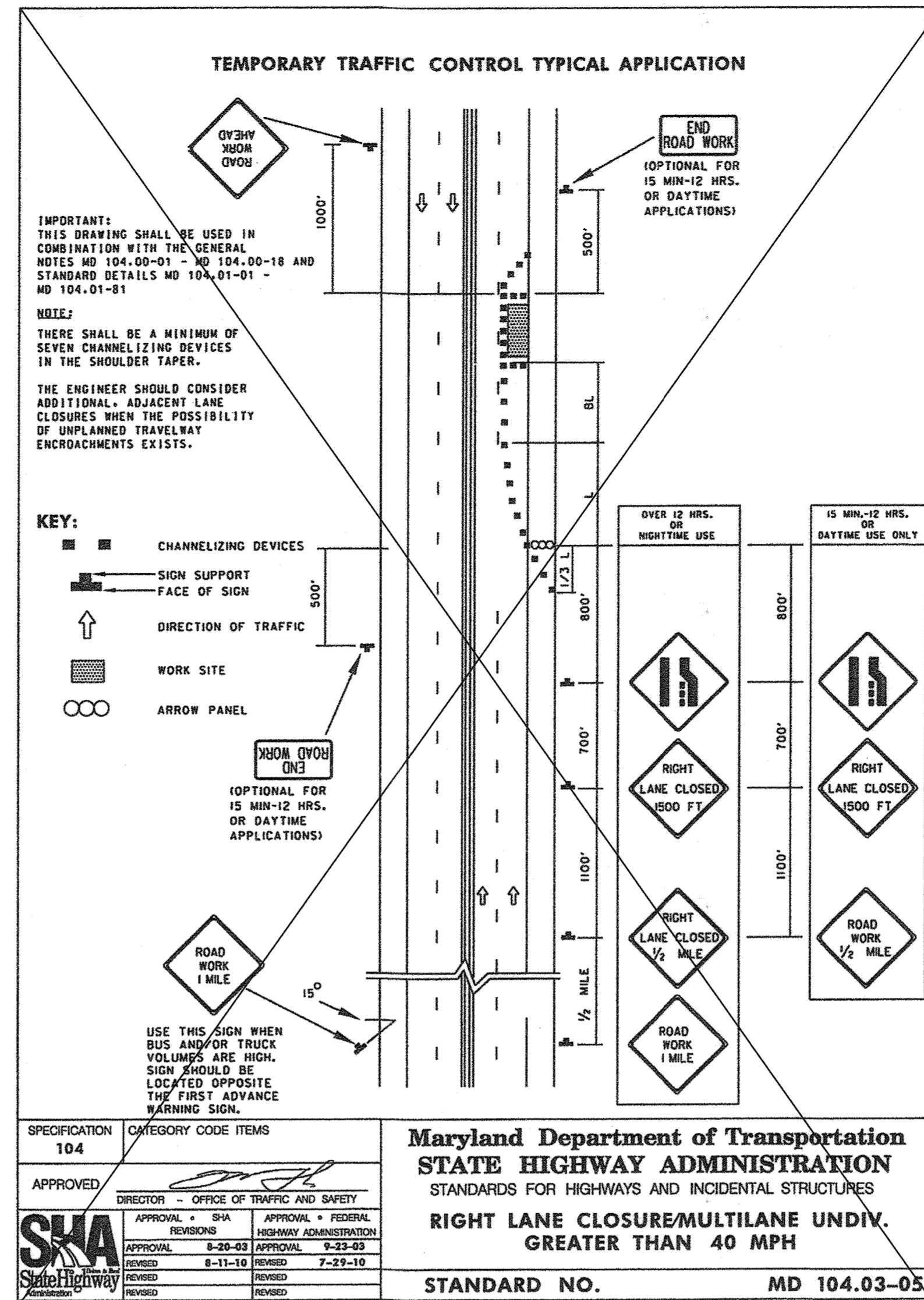
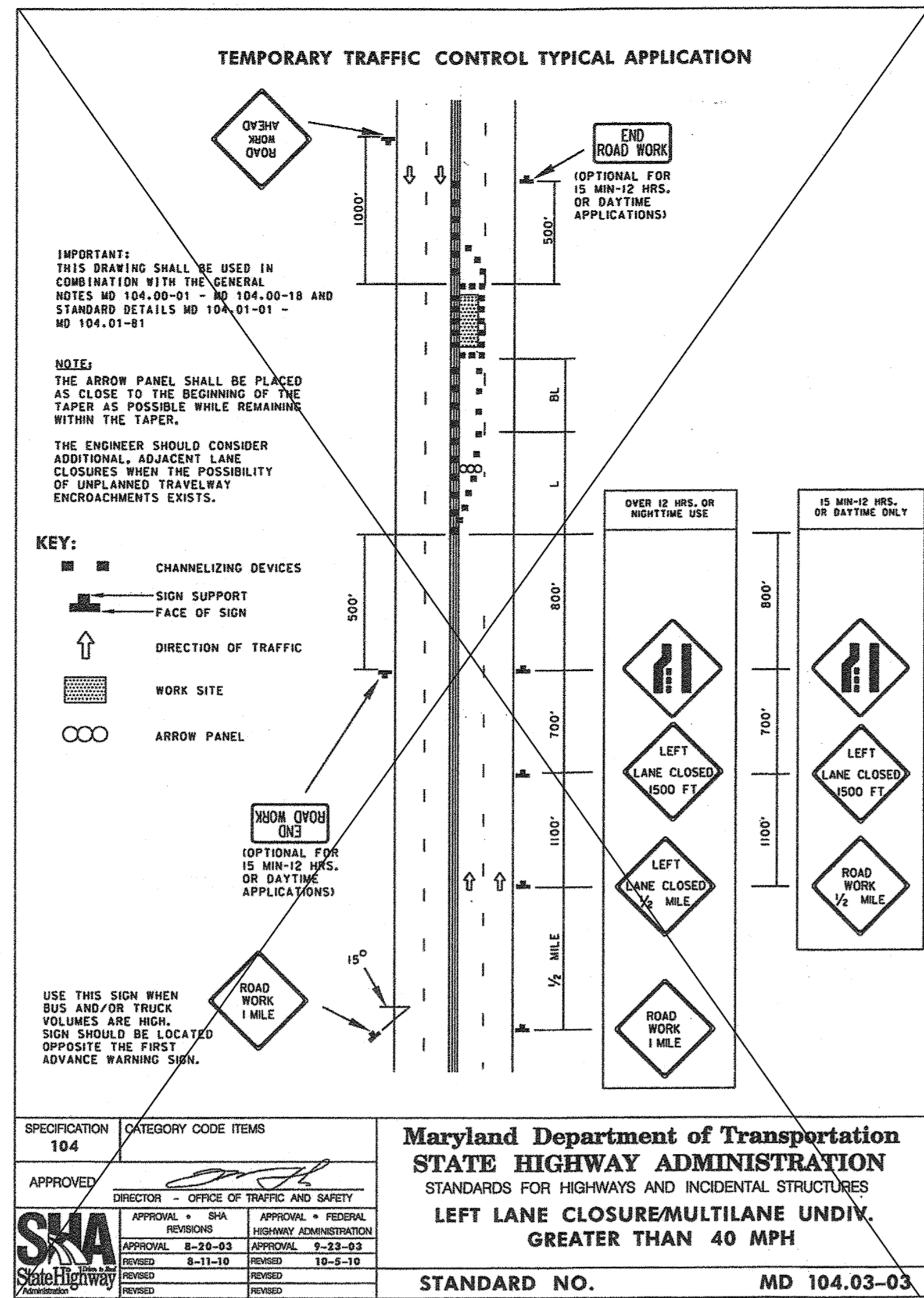
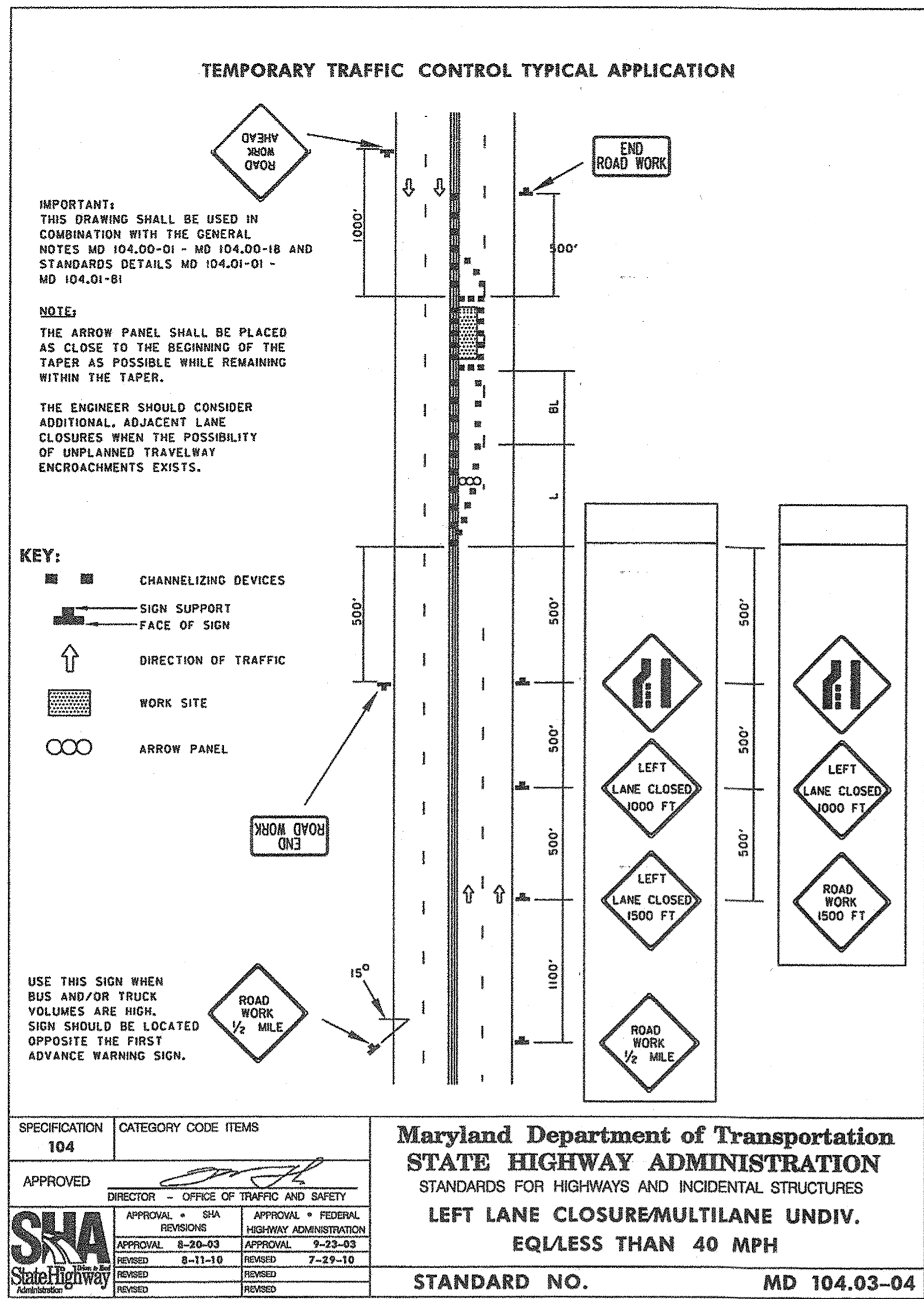
WATER AND SEWER PLAN

600 SCALE MAP # 37 & 43 BLOCK 23 & 05

CORRIDOR SQUARE PARCEL A
FIRST ELECTION DISTRICT

CONTRACT NO. 14-5029-D-44-5116

SCALE: AS SHOWN
SHEET NO. 4 OF 5



16" WATER MAIN
WATER LINE STATION 0+00 TO 6+44

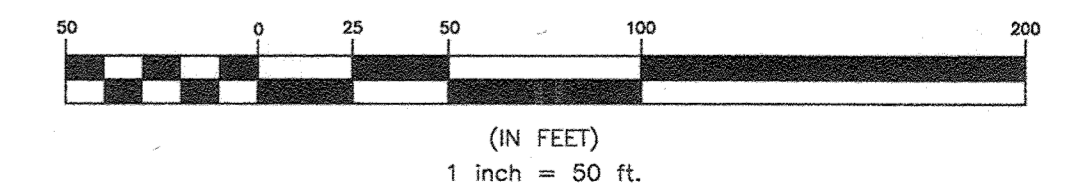
8" WATER MAIN
WATER LINE STATION
0+00 TO 8+85

8" SEWER MAIN UP TO R/W LINE, 8" WATER MAIN FROM
8" TEE WATERLINE STATION 1+54 TO R/W LINE, FH TEE
OFF 8" WATER MAIN WATERLINE STATION 1+94 TO FIRE
HYDRANT AND FROM FH TEE OFF 16" WATER MAIN
WATERLINE STATION 2+72 TO FIRE HYDRANT

8" WATER MAIN 'B'
FROM 16"x8" TEE TO R/W LINE 8" WATER
LINE STATION 0+67

Professional Certification. 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. 22390, Expiration Date: 6-30-2021

☒ NOT IN THIS CONTRACT
AS-BUILTS



OWNER:
CORRIDOR SQUARE, LLC
6800 DEERPATH ROAD
ELKBRIDGE, MD 21075
410.579.2442
DEVELOPER:
MURN DEVELOPMENT
6800 DEERPATH ROAD
ELKBRIDGE, MD 21075
410.579.2442

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 5/24/2021
DIRECTOR OF PUBLIC WORKS DATE

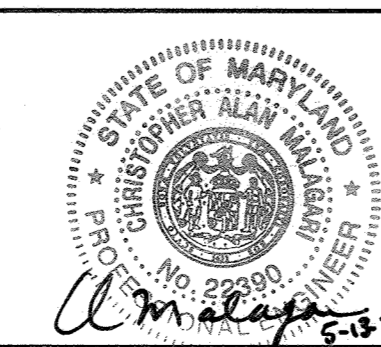
[Signature] 5/24/2021
CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 5/24/2021
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 5/24/2021
CHIEF, UTILITY DESIGN DIVISION DATE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS

2480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6644
WWW.BCI-CIVILENGINEERING.COM



DES:	JCO			
DRAFT:	JCO			
CHK:	CAM			
DATE:	AUGUST 2018			
BY:	NO.	REVISIONS	DATE	
	1	AS BUILT	5/2021	

MAINTENANCE OF TRAFFIC PLAN PLAN

600 SCALE MAP # 37 & 43 BLOCK 23 & 05

CORRIDOR SQUARE PARCEL A
FIRST ELECTION DISTRICT
CONTRACT NO. 14-5029-D 44-5116

SCALE:
AS SHOWN

SHEET NO.
5 OF 5