

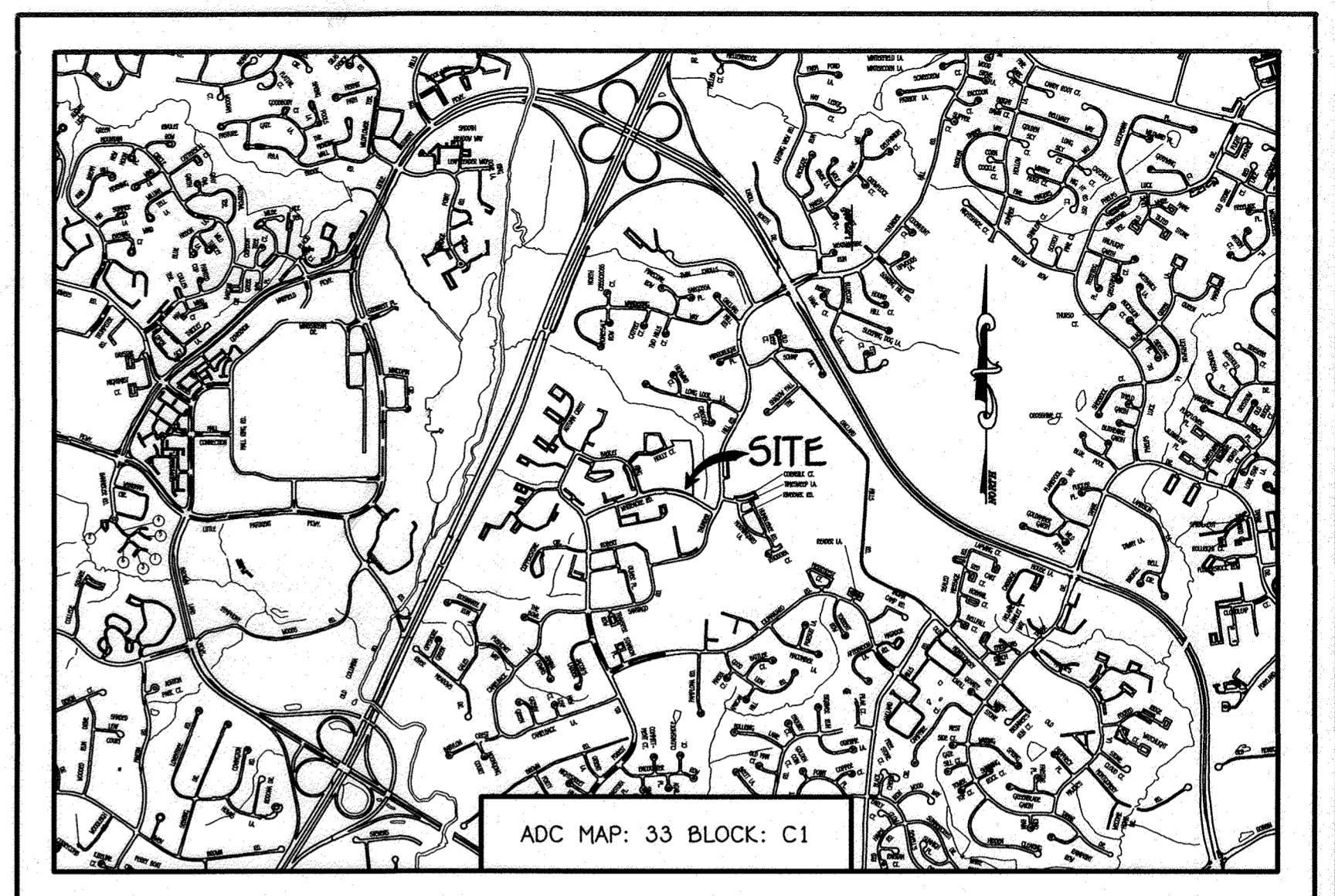
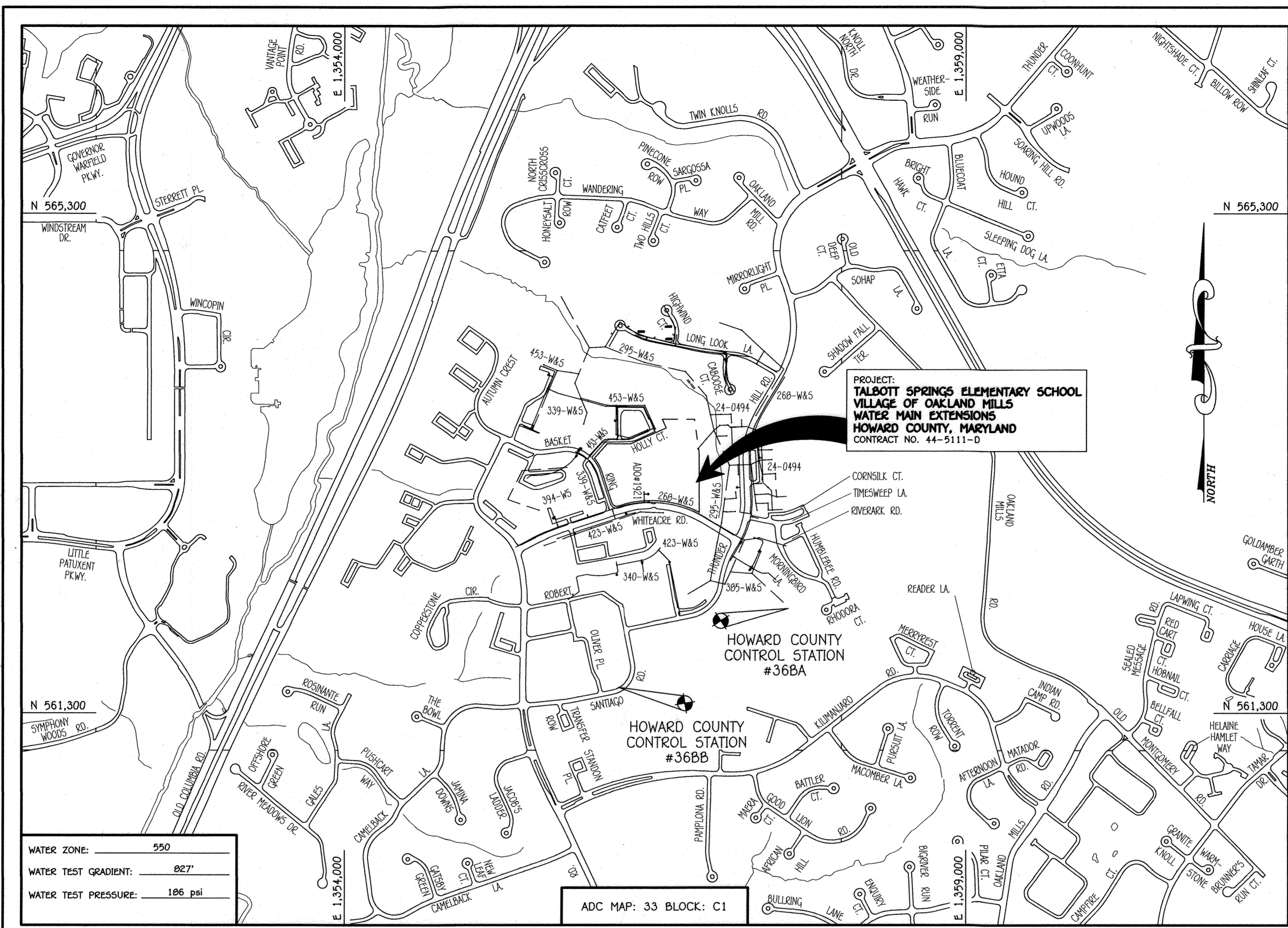
QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		SUPPLIER
		QUANTITIES	TYPE	
8" PVC 900 PVC DR-18	429 L.F.	PVC DR 18	JM MANUFACTURE	
12" PVC 900 PVC DR-18	53 L.F.	PVC DR 18	JM MANUFACTURE	
12" X 8" TAPPING SLEEVE	1 EACH	SS TAP SLEEVE	JCM INDUSTRIES	
8" TAPPING VALVE	1 EACH	TAPPING VALVE	MUELLER CO.	
8" VALVE	4 EACH	GATE VALVE	MUELLER CO.	
1/8" H.B.	2 EACH	MT B EMB	STAR PIPE PRODUCTS	
1/32" V.B.	1 EACH	EPOXY DIP	STAR PIPE PRODUCTS	
3" DEF COUPLING	2 EACH	HIGH DEF COUPLING	AMERICAN	
8" X 8" TEE	2 EACH	EPOXY M J TEE	STAR PIPE PRODUCTS	
8" X 8" F.H. TEE	3 EACH	EPOXY CONTE HYD	STAR PIPE PRODUCTS	
8" VALVE	3 EACH	M J GATE VALVE	MUELLER CO.	
8" PLUG & BUTTRESS	1 EACH	M J PLUG & BUTTRESS	STAR PIPE PRODUCTS	
FIRE HYDRANT	3 EACH	FIRE HYDRANT	MUELLER CO.	
CONTINUITY TEST STATION	3 EACH	TEST STATION	BINGHAM & TAYLOR	

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

BENCHMARK INFORMATION

B.M. #1 HOWARD COUNTY GEODETIC SURVEY CONTROL 368A - HORIZONTAL - (NAD '83)
 LOCATED 1.5' SOUTH OF THE ASPHALT WALKWAY, NORTH OF BASEBALL BACKSTOP AT OAKLAND MILLS HIGH SCHOOL.
 NORTHING 562,135.536
 EASTING 1,357,571.674
 ELEVATION = 416.772 - VERTICAL - (NAVD '86)

B.M. #2 HOWARD COUNTY GEODETIC SURVEY CONTROL 368B - HORIZONTAL - (NAD '83)
 LOCATED 4.5' WEST OF SANTIAGO ROAD, BETWEEN OAKLAND MILLS INTERFAITH CENTER AND OAKLAND MILLS HIGH SCHOOL ATHLETIC FIELDS.
 NORTHING 561,504.228
 EASTING 1,356,202.719
 ELEVATION = 409.248 - VERTICAL - (NAVD '86)



LOCATION MAP
 SCALE: 1" = 600'

ADC MAP: 33 BLOCK: C1

PLAN REFERENCE NUMBERS:
 SDP-20-051 & SDP-00-011

DEVELOPER'S CERTIFICATION

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

Signature: *James Talbot* DATE: 5/27/2020

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.

Signature: *Paul W. Kriebel* DATE: 05/21/20

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THE SITE DEVELOPMENT PLAN, SDP-96-18 (REDLINE).

Signature: *James Talbot* DATE: 5/27/2020

SDP-00-011 (REDLINE)

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

Signature: *Sam Bluth* DATE: 5/27/20

LEGEND	
SYMBOL	DESCRIPTION
—	EX. WATER MAIN
---	EX. SEWER MAIN
○	EX. SEWER MANHOLE
—	EX. SEWER, WATER & UTILITY EASEMENT
—	EX. FIRE HYDRANT
○	EX. VALVE
—	PROP. WATER MAIN
---	PROP. SEWER MAIN
○	PROP. SEWER MANHOLE
—	PROP. SEWER, WATER & UTILITY EASEMENT
---	PROP. WHC
—	PROP. SHC
○	PROP. FIRE HYDRANT
○	PROP. VALVE

CONTRACT NO. 44-5111-D TALBOTT SPRINGS ELEMENTARY SCHOOL VILLAGE OF OAKLAND MILLS WATER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

GENERAL NOTES
 SCALE: 1" = 200'

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 APRIL, 2018 BY FISHER, COLLINS & CARTER, INC.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 368A & NO. 368B. ALL VERTICAL CONTROLS ARE BASED ON NAVD '86. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- 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 OWNED BY 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 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:

AT&T (CONTRACTOR SERVICES)	1-800-292-1133
BGE (EMERGENCY)	410-637-8713
BUREAU OF UTILITIES	410-695-0123
COLONIAL PIPE CO	410-313-4900
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
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 STRIP 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 AWMA C900 PVC DR-18.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 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 AWMA 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 COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED, EXCEPT 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 COMPRESSION EQUIPMENT DIRECTLY OVER THE FITTING.
- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL OF 3-DEGREES (1 1/2-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWMA C900, SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR-18 MEETING THE REQUIREMENTS OF AWMA C900 AND SHALL BE MULTI FITTINGS (IPEX) BLUE BRUTE DR-18 OR EQUAL.
- WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWMA C900 PVC PIPELINES, 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. THE 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 EBA IRON, INC. OR APPROVED EQUAL.
- TO ACCOMMODATE A SPRINKLER SYSTEM, ALL RESIDENTIAL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A OUTSIDE METER SETTING, STD. DET. W-3-28.

PART C: SEWER MAIN GENERAL NOTES

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVER, STANDARD DETAL G5.52.
- WHERE WATER TIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

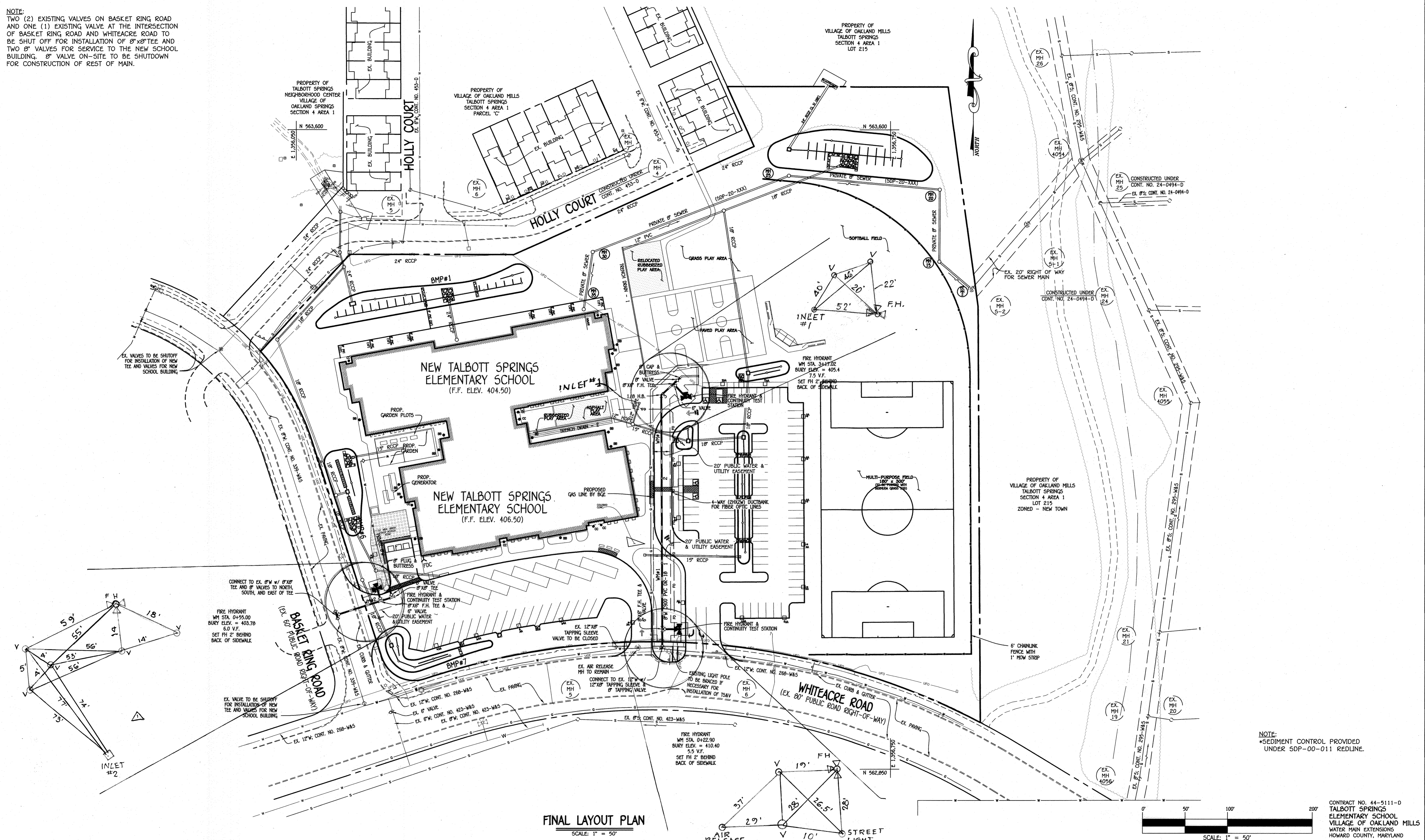
OWNER / DEVELOPER
 HOWARD COUNTY PUBLIC SCHOOL SYSTEM
 9020 MENDENHALL COURT SUITE 'C'
 COLUMBIA, MARYLAND 21045
 ATTN: MR. DAN LURELEY
 ACTING DIRECTOR, SCHOOL PLANNING & CONSTRUCTION

CONTRACT NO. 44-5111-D
 TALBOTT SPRINGS ELEMENTARY SCHOOL VILLAGE OF OAKLAND MILLS WATER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 5/29/2020	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6/8/20	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 7/18/20. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE BLDG. - 10275 BALTIMORE NATIONAL PKCE ELLSWORTH CITY, MARYLAND 21144 (410) 461 - 2255	DESIGNED BY: J.N.G. DRAWN BY: J.N.G. CHECKED BY: P.W.K. DATE: MAY, 2020 BY NO. AS BUILT "QUANTITIES" REVISION: 10/30/23 DATE:
WATER MAIN EXTENSIONS TITLE SHEET 600' SCALE MAP NO. 36 BLOCK NO. 3 F.C.C. WORK ORDER NO. 03007-5001 FILE NAME: WATER MAIN EXTENSION PLAN		TALBOTT SPRINGS ELEMENTARY SCHOOL VILLAGE OF OAKLAND MILLS WATER MAIN EXTENSIONS CONTRACT NO. 44-5111-D SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND SCALE AS SHOWN SHEET 1 OF 5	

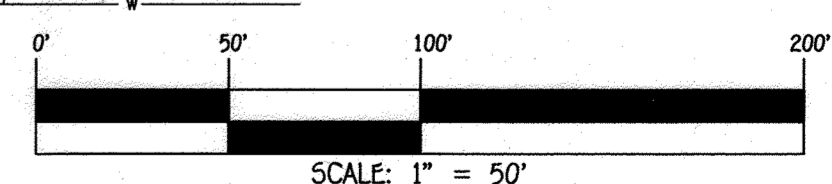
NOTE:
TWO (2) EXISTING VALVES ON BASKET RING ROAD AND ONE (1) EXISTING VALVE AT THE INTERSECTION OF BASKET RING ROAD AND WHITEACRE ROAD TO BE SHUT OFF FOR INSTALLATION OF 8" x 8" TEE AND TWO 8" VALVES FOR SERVICE TO THE NEW SCHOOL BUILDING. 8" VALVE ON-SITE TO BE SHUTDOWN FOR CONSTRUCTION OF REST OF MAIN.



FINAL LAYOUT PLAN

SCALE: 1" = 50'

NOTE:
*SEDIMENT CONTROL PROVIDED UNDER 50P-00-011 REDLINE.



CONTRACT NO. 44-5111-0
TALBOTT SPRINGS
ELEMENTARY SCHOOL
VILLAGE OF OAKLAND MILLS
WATER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, BUREAU OF UTILITIES

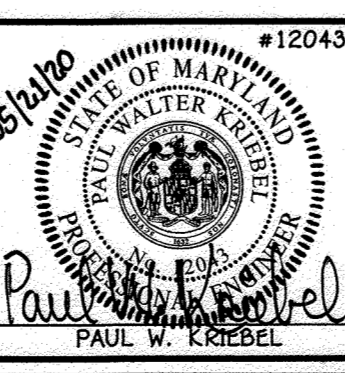
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

[Signature]
CHIEF, DEVELOPMENT ENGINEERING DIVISION

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FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2295



DESIGNED BY:	J.N.G.
DRAWN BY:	J.N.G.
CHECKED BY:	P.W.K.
DATE:	MAY, 2020
BY NO.	AS BUILT
REVISION	
DATE:	10/30/23

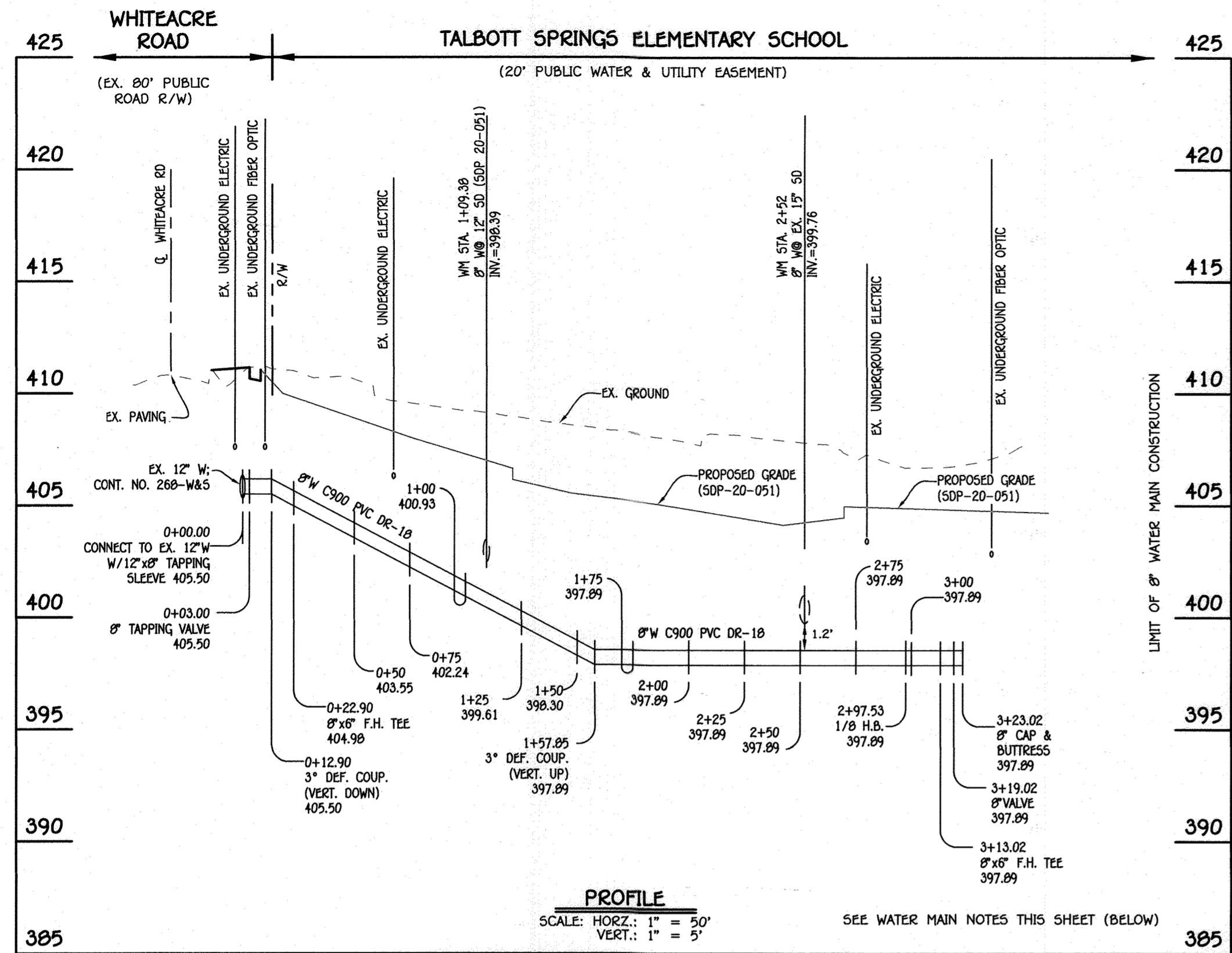
WATER MAIN EXTENSIONS PLAN

600' SCALE MAP NO. 36 BLOCK NO. 3
F.C.C. WORK ORDER NO. 03007-5001
FILE NAME: WATER MAIN EXTENSION PLAN

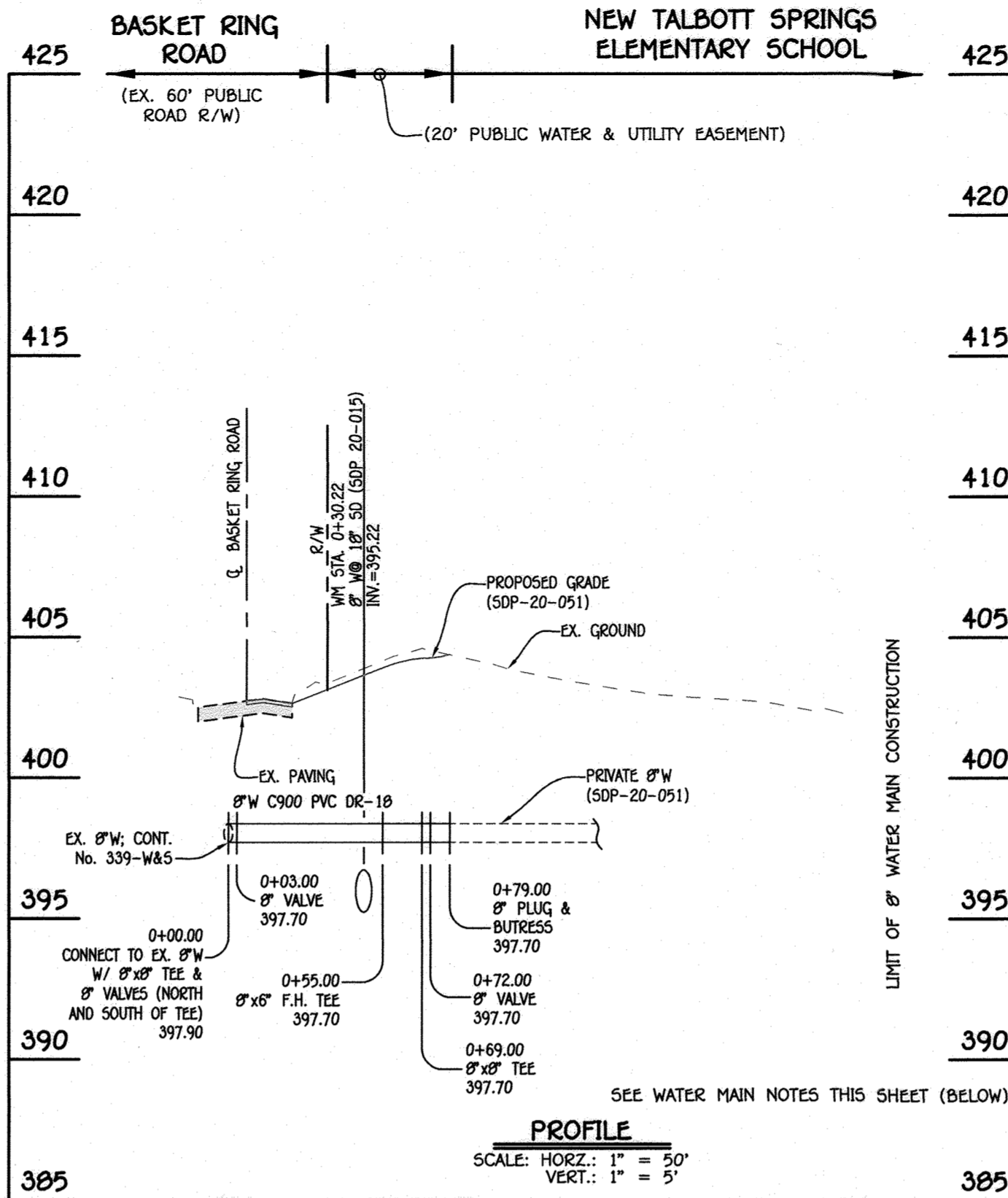
**TALBOTT SPRINGS
ELEMENTARY SCHOOL**
VILLAGE OF OAKLAND MILLS
WATER MAIN EXTENSIONS
CONTRACT NO. 44-5111-0
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 2 OF 5

I:\2003\03007\Engineering\Divs\Sewer & Water\Contract No. 14-5111-D\Final\03007 final sewer & water contract plan.dwg, Final Layout Plan Sheet 2, 1:1



8" WATER MAIN #1

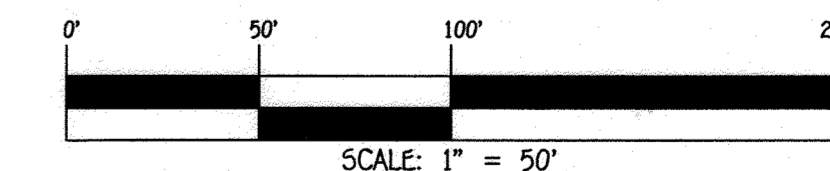


8" WATER MAIN #2

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN #1			
0+00.00	12" x 8" TAPPING SLEEVE	562,991.33	1,356,481.46
0+03.00	8" TAPPING VALVE	562,994.33	1,356,481.46
0+12.90	3" DEFLECTION COUPLING (VERT. DOWN)	563,004.24	1,356,481.42
0+22.90	8" x 6" F.H. TEE	563,014.23	1,356,481.37
1+57.85	3" DEFLECTION COUPLING (VERT. UP)	563,149.18	1,356,480.83
2+97.53	1/8" H.B.	563,288.86	1,356,480.26
3+10.02	3" DEFLECTION COUPLING (VERT. UP)	563,297.32	1,356,489.46
3+13.02	8" x 6" F.H. TEE	563,302.06	1,356,494.61
3+19.02	8" VALVE	563,306.13	1,356,499.03
3+23.02	8" CAP & BUTTRESS	563,308.84	1,356,501.97

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN #2			
0+00.00	8" x 8" TEE	563,030.78	1,356,097.47
0+00.00	0/5 3" LT	563,033.68	1,356,096.67
0+00.00	0/5 3" RT	563,027.96	1,356,098.49
0+03.00	8" VALVE	563,031.68	1,356,100.33
0+55.00	8" x 6" F.H. TEE	563,047.34	1,356,149.92
0+69.00	8" x 8" TEE	563,051.55	1,356,163.27
0+72.00	8" VALVE	563,054.41	1,356,162.36
0+79.00	8" PLUG & BUTTRESS	563,061.09	1,356,160.26

- 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.

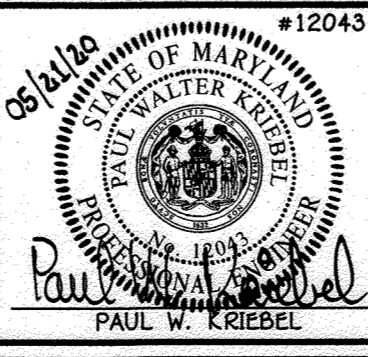


CONTRACT NO. 44-5111-0
 TALBOTT SPRINGS
 ELEMENTARY SCHOOL
 VILLAGE OF OAKLAND MILLS
 WATER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 [Signature]
 5/29/2020
 CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND
 [Signature]
 6.8.20
 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 5/7/16/20.
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 18276 BALTIMORE NATIONAL FREE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2895



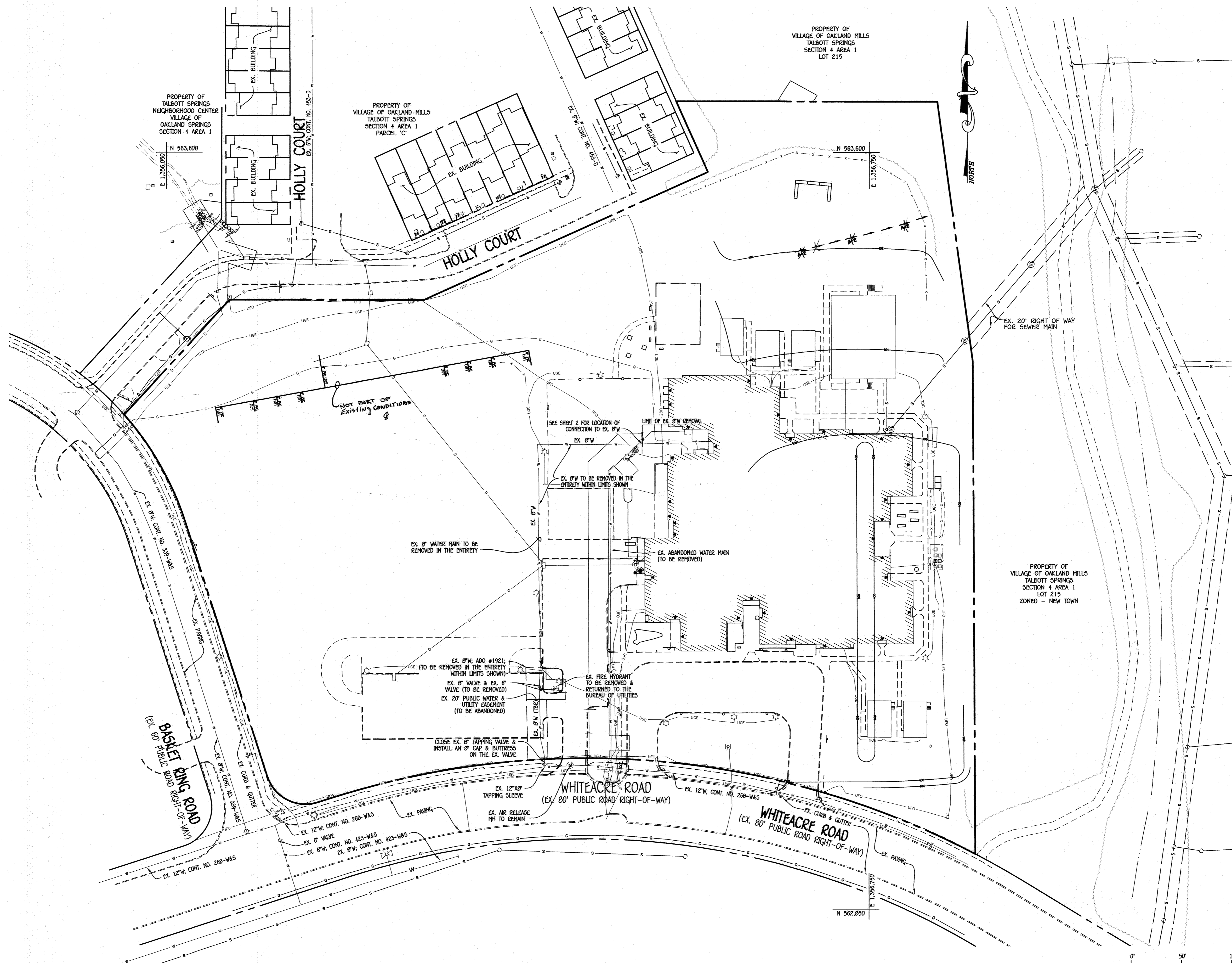
DESIGNED BY : J.N.G.
 DRAWN BY : J.N.G.
 CHECKED BY : P.W.K.
 DATE : MAY, 2020

BY	NO.	REVISION	DATE

WATER MAIN EXTENSIONS
 PROFILES, CHARTS & NOTES
 600' SCALE MAP NO. 36 BLOCK NO. 3
 F.C.C. WORK ORDER NO. 03007-5001
 FILE NAME : WATER MAIN EXTENSION PLAN

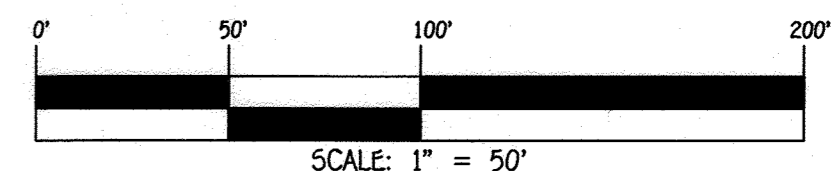
TALBOTT SPRINGS
 ELEMENTARY SCHOOL
 VILLAGE OF OAKLAND MILLS
 WATER MAIN EXTENSIONS
 CONTRACT NO. 44-5111-0
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 3 OF 5



EXISTING CONDITIONS AND ABANDONMENT PLAN

SCALE: 1" = 50'



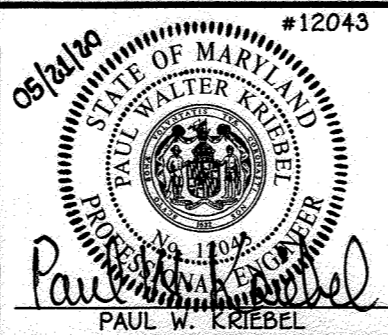
CONTRACT NO. 44-5111-0
 TALBOTT SPRINGS
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 WATER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

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FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10270 BALTIMORE NATIONAL PIKE
 ELLEBTOWN CITY, MARYLAND 21042
 (410) 461-2995



DESIGNED BY:	J.N.G.
DRAWN BY:	J.N.G.
CHECKED BY:	P.W.K.
DATE:	MAY, 2020
BY NO.	
REVISION	
DATE	

WATER MAIN EXTENSIONS PLAN

600' SCALE MAP NO. 36 BLOCK NO. 3
 F.C.C. WORK ORDER NO. 03007-5001
 FILE NAME: WATER MAIN EXTENSION PLAN

**TALBOTT SPRINGS
 ELEMENTARY SCHOOL
 VILLAGE OF OAKLAND MILLS
 WATER MAIN EXTENSIONS
 CONTRACT NO. 44-5111-0
 SIXTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND**

SCALE AS SHOWN
 SHEET 4 OF 5

[Signature]
 CHIEF, BUREAU OF UTILITIES
 DATE 5/29/2020

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE 6.8.20

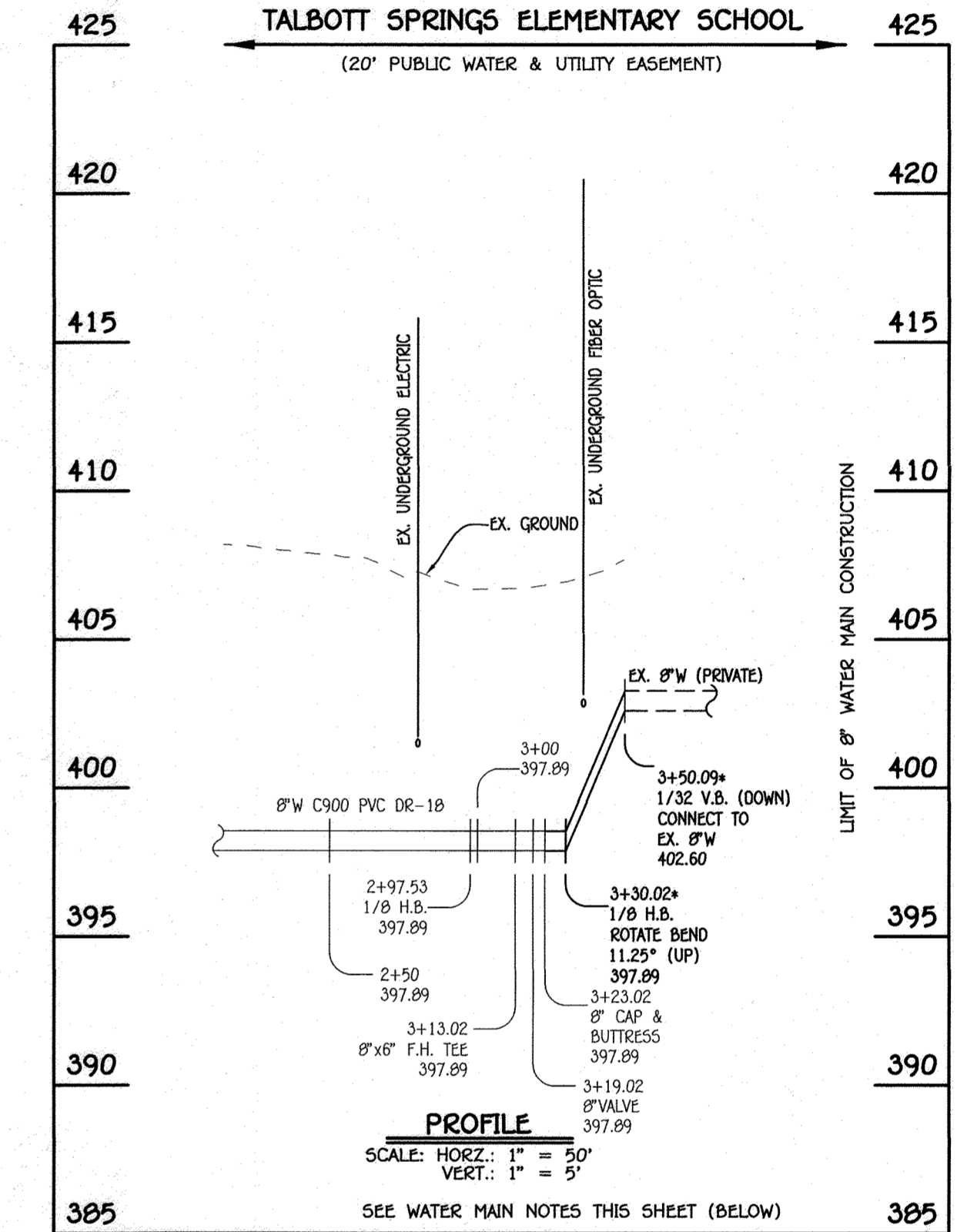
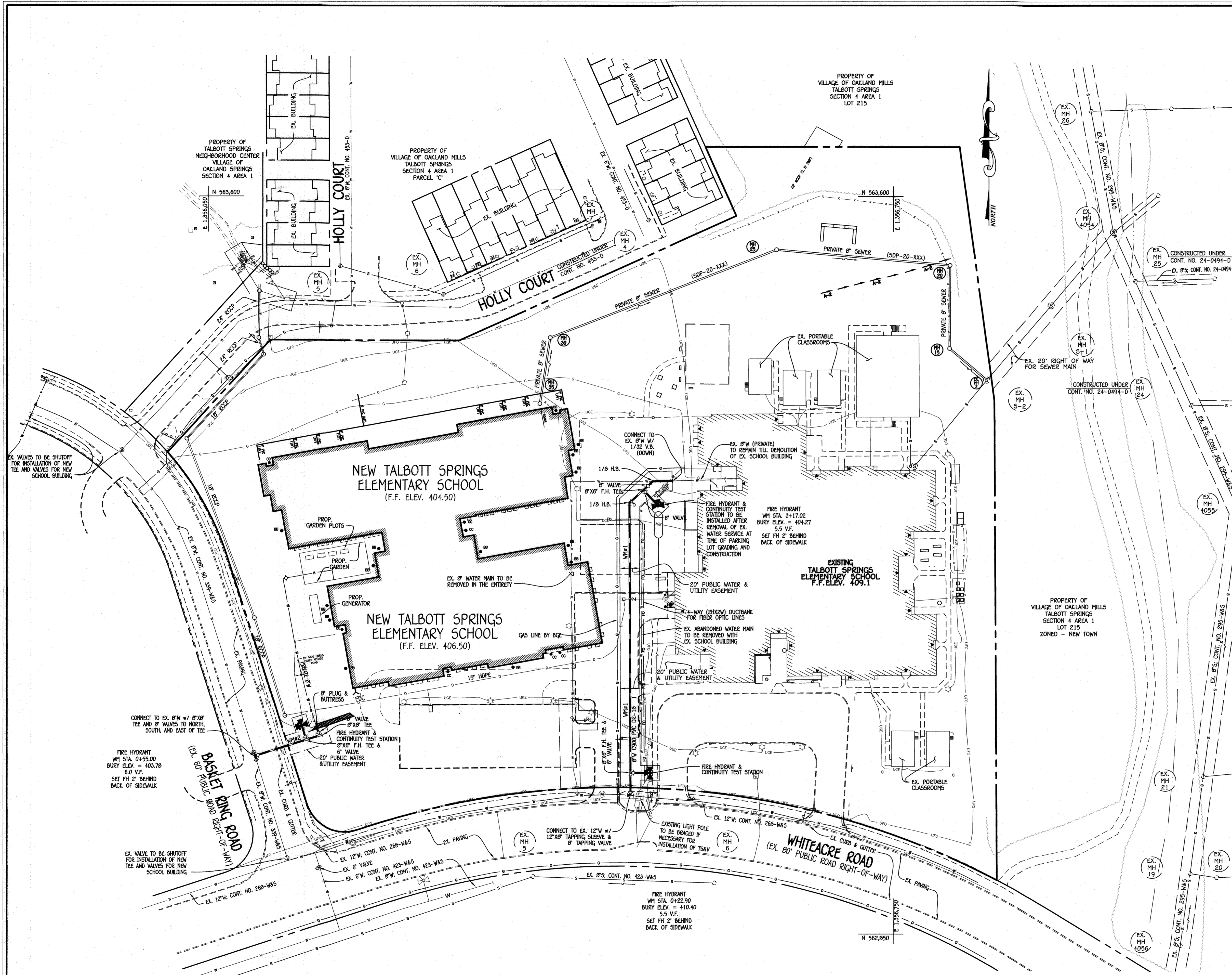
I:\2020\03007\Engineering\Divs\Sewer & Water\Contract No. 44-5111-0\Finals\03007 final sewer & water contract plan.dwg, Ex. Conditions Sheet 4, 1:1

WATER MAIN SEQUENCE OF CONSTRUCTION

CONTRACTOR TO NOT ALLOW CONSTRUCTION TRAFFIC DURING THE ARRIVAL AND DISMISSAL TIMES, TYPICALLY 30 MINUTES BEFORE OFFICIAL START TIME OF 8:40AM AND AFTER OFFICIAL CLOSING TIME OF 3:10PM FOR THE SCHOOL.

1. OBTAIN GRADING PERMIT. (1 DAY)
2. NOTIFY MISS UTILITY (1-800-257-7777) 48 HOURS BEFORE STARTING WORK. NOTIFY THE HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION (410-313-1895) 24 HOURS BEFORE STARTING WORK, AND NOTIFY THE BALTIMORE GAS ELECTRIC CO. (410-291-9739) FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.
3. CONTRACTOR TO FOLLOW SEDIMENT CONTROL PLAN UNDER SDP-00-011 FOR INSTALLATION OF SEDIMENT CONTROL DEVICES.
4. CONTRACTOR TO SHUTOFF VALVE FOR WATER SERVICE CONNECTION TO EXISTING SCHOOL BUILD. INSTALL 12" x 8" TS&V AT WHITE ACRE ROAD AND CONNECT TO EXISTING WATER SERVICE CONNECTION INCLUDING FIRE HYDRANT CLOSEST TO WHITE ACRE ROAD. UPON CONNECTION, CAP EXISTING SERVICE LINE AT VALVE AND REMOVE EXISTING WATER SERVICE LINE.
5. CONTRACTOR TO INSTALL 8" x 8" TS&V AT BASKET RING ROAD, INSTALL PUBLIC PORTION OF WATER MAIN, INCLUDING FIRE HYDRANT, AND ADD PLUG & BUTTRESS TO MAIN. PRIVATE SERVICE CONNECTION TO BE MADE UNDER SDP-20-051.
6. UPON DEMOLITION OF THE WESTERN PORTION OF THE EXISTING SCHOOL BUILDING, VALVE TO BE SHUTOFF AND CAP & BUTRESS TO BE ADDED UPON REMOVAL OF SERVICE LINE BEYOND STATION 3+23 TO SCHOOL BUILDING AND INSTALL FIRE HYDRANT AT STATION 3+17.02 PRIOR TO NEW PARKING LOT GRADING AND CONSTRUCTION.

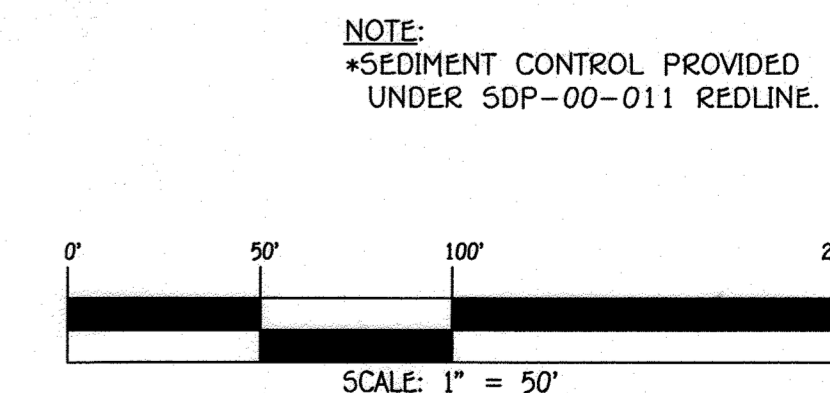
EROSION AND SEDIMENT CONTROL NOTE:
THE CONTRACTOR SHALL INSPECT AND PROVIDE THE NECESSARY MAINTENANCE ON ALL SEDIMENT CONTROL DEVICES/PRACTICES (INSTALLED PER SDP-00-011) ON A DAILY BASIS, AND IMMEDIATELY AFTER A RAINFALL.



8" WATER MAIN #1 INTERMEDIATE CONNECTION

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
3+23.02	8" CAP & BUTTRESS (FINAL CONDITION)	563,308.84	1,356,501.97
3+30.02+	1/8" H.B. (ROTATE BEND UP)	563,310.87	1,356,504.18
3+50.09+	1/32" V.B. (UP); CONNECT TO EX. 8" PRIVATE	563,311.14	1,356,524.25

- NOTE:** * DENOTES TEMPORARY INTERMEDIATE CONNECTION.
- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, DR-18.
 2. 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.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



INTERMEDIATE CONSTRUCTION PLAN

SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, BUREAU OF UTILITIES DATE: 5/29/20	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 6.8.20	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 5/7/16/20. FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 18272 BALTIMORE NATIONAL PIKE ELLEOTT CITY, MARYLAND 21042 (410) 461 - 2895	DESIGNED BY: J.N.G. DRAWN BY: J.N.G. CHECKED BY: P.W.K. DATE: MAY, 2020	#12043 STATE OF MARYLAND PROFESSIONAL ENGINEER PAUL W. KRIEDEL	WATER MAIN EXTENSIONS PLAN 600' SCALE MAP NO. 36 BLOCK NO. 3 F.C.C. WORK ORDER NO. 03007-5001 FILE NAME: WATER MAIN EXTENSION PLAN	TALBOTT SPRINGS ELEMENTARY SCHOOL VILLAGE OF OAKLAND MILLS WATER MAIN EXTENSIONS CONTRACT NO. 44-5111-0 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN
							SHEET 5 OF 5

I:\2020\03007\Engineering\DWG\Sewer & Water\Contract No. 14-5111-D\Final\03007 final sewer & water contract plan.dwg, Intermediate Construction Plan Sheet 5, 1.1