

SECTION 00910

ADDENDUM NO. 1

Dated: March 19, 2025

**BRIARWOOD WATER MAIN REPLACEMENT PROJECT
ALBEMARLE COUNTY SERVICE AUTHORITY**

TO ALL HOLDERS OF THE CONTRACT DOCUMENTS:

Your attention is directed to the following interpretations of, changes in, and additions to the Contract Documents for the construction of the Briarwood Water Main Replacement Project.

This addendum is issued in accordance with the Information for Bidders Section of the Contract Documents, Section 00490, and Article 9 of the Agreement.

Except as may be otherwise described, bidding requirements, materials, and workmanship for the work described herein shall conform to all requirements of the original Contract Documents. The following Addendum to the Contract Documents are made a part of the project and take precedence over the section of the specifications, in part, and/or the drawings as originally written.

This Addendum consists of thirty (30) pages.

Ramboll Americas Engineering Solutions, Inc.



Mar-19-2025

Maggie L. Hopkins, P.E.
Project Officer

CHANGES TO THE PROJECT DRAWINGS

1. Modification: **DELETE** Sheet G-3 and **SUBSTITUTE THEREFOR** the attached Sheet G-3.
2. Modification: **DELETE** Sheet C-4 and **SUBSTITUTE THEREFOR** the attached Sheet C-4.
3. Modification: **DELETE** Sheet C-11 and **SUBSTITUTE THEREFOR** the attached Sheet C-11.
4. Modification: **DELETE** Sheet C-13 and **SUBSTITUTE THEREFOR** the attached Sheet C-13.
5. Modification: **DELETE** Sheet C-17 and **SUBSTITUTE THEREFOR** the attached Sheet C-17.

CHANGES TO THE PROJECT MANUAL

1. Modification: **DELETE** Section 00400 (Bid Form) in its entirety and replace with the Bid Form attached and included herein.
2. Modification: **DELETE** Section 01 02 00 (Measurement and Payment) in its entirety and replace with the Section 01 02 00 attached and included herein.

QUESTIONS FROM CONTRACTORS

1. Will ACSA release project budget?
Answer: No. The ACSA's approved CIP budget is a publicly available document. See link below.

<https://storymaps.arcgis.com/stories/ca90f4677d4c454bb3bb3160ebdf363e>
2. Will ACSA provide line item values received with initial bids?
Answer: Yes, see attached Bid Summary herein.

GENERAL CLARIFICATIONS

1. Bids for Briarwood Water Main Replacement can be submitted either electronically, or as sealed hard copy submittal.
2. Electronic bids may be submitted via eVA system.
3. Hard copy bids may be submitted to the ACSA office, 168 Spotnap Road, Charlottesville, VA, 22911.

Receipt of this addendum shall be acknowledged on the form provided in Section 00490.

**ADDENDUM NO. 1 – SUPPORTING DOCUMENTS
BRIARWOOD WATER MAIN REPLACEMENT PROJECT**

Confidential

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Confidential

WATER MAIN FITTING, VALVE AND HYDRANT SCHEDULES

AUSTIN DRIVE			
NORTHING	EASTING	STATION	FITTING
3948434.49	11506291.59	-0+05.90	8" SOLID SLEEVE
3948429.98	11506290.76	-0+01.31	8" - 90° HB
3948430.51	11506287.86	0+01.63	8" - GV
3948433.35	11506262.13	0+27.57	8" - GV
3948433.35	11506259.26	0+30.43	8" TEE
3948433.35	11506256.48	0+33.06	8" GV
3948073.06	11506279.97	3+94.55	8" GV
3948070.74	11506280.82	3+97.02	8"x6" TEE
3948068.20	11506281.77	3+99.74	8" GV
3947934.94	11506344.25	5+47.17	8"x6" TEE
3947928.78	11506333.75	5+47.17	FHA
3947864.78	11506394.57	6+33.59	8" GV
3947862.16	11506396.76	6+36.99	8"x6" TEE
3947857.40	11506400.84	6+43.27	8" GV
3947707.58	11506591.11	8+87.28	8" - 45° VB
3947706.13	11506594.24	8+90.67	8" - 45° VB
3947672.86	11506668.12	9+71.86	8" - 11.25° HB
3947665.20	11506701.64	10+06.38	8" GV
3947664.12	11506706.35	10+11.05	8"x6" TEE
3947658.75	11506717.60	10+23.23	6" GV
3947661.41	11506718.22	10+23.23	8"x6" TEE
3947660.55	11506721.96	10+26.75	8" GV
3947659.90	11506724.81	10+30.00	8" PLUG

BLUEJAY WAY			
NORTHING	EASTING	STATION	FITTING
3947664.12	11506706.35	0+00.00	8"x6" TEE
3947666.90	11506706.99	0+02.86	8" GV
3947668.98	11506707.47	0+05.03	8" - 22.5° VB
3947675.39	11506708.96	0+11.58	8" - 22.5° VB
3947728.63	11506721.30	0+66.22	8" - 45° HB
3947738.97	11506737.78	0+85.61	8" - 45° HB
3947744.35	11506738.92	0+91.09	8" SOLID SLEEVE

FINCH COURT			
NORTHING	EASTING	STATION	FITTING
3947702.34	11505886.92	0+00.00	BLOW-OFF
3947698.62	11505890.78	0+05.36	4" GV
3947689.05	11505900.67	0+19.13	4" - 45° HB
3947690.24	11505961.68	0+80.14	6"x4" REDUCER
3947690.31	11505964.80	0+83.27	6" TEE
3947770.22	11505964.74	0+83.27	FHA
3947692.03	11506052.07	1+70.54	6" - 22.5° HB
3947650.28	11506160.24	2+86.48	6" - 11.25° VB
3947647.07	11506170.55	2+97.31	6" - 11.25° VB
3947643.97	11506182.46	3+09.62	6" - 11.25° VB
3947643.07	11506186.28	3+13.54	6" - 11.25° VB
3947642.26	11506187.89	3+15.20	8"x6" REDUCER
3947642.26	11506189.69	3+17.05	8"x6" TEE
3947651.91	11506191.97	3+17.05	FHA
3947627.11	11506250.45	3+79.67	8" GV
3947626.48	11506252.78	3+82.08	8" TEE

WHITNEY COURT			
NORTHING	EASTING	STATION	FITTING
3947352.69	11506165.57	0+00.00	8" TEE
3947351.27	11506168.50	0+03.25	8" GV
3947321.56	11506226.92	0+68.81	8"x6" TEE
3947330.90	11506231.93	0+68.81	FHA
3947253.83	11506367.88	2+25.48	8" TEE
3947252.94	11506370.93	2+28.65	8" GV
3947238.65	11506588.97	4+48.51	8"x6" TEE
3947237.76	11506591.86	4+51.40	8" GV
3947240.04	11506628.60	4+88.16	8"x6" TEE
3947250.47	11506628.24	4+88.16	FHA
3947240.20	11506633.16	4+92.73	8"x6" REDUCER
3947245.05	11506771.26	6+30.91	6" - 22.5° HB
3947225.31	11506824.08	6+87.29	6" - 22.5° HB
3947199.98	11506850.96	7+24.22	6" - 22.5° HB
3947148.54	11506874.07	7+80.60	6" - 22.5° HB
3947111.18	11506875.18	8+17.96	6" - 22.5° HB
3947074.17	11506861.11	8+57.56	6"-11.25° HB
3946998.13	11506806.24	9+51.40	6" GV
3946995.94	11506804.59	9+54.12	6" TEE
3946988.80	11506814.02	9+54.12	FHA
3946993.73	11506802.92	9+56.91	6" GV
3946982.73	11506794.59	9+70.70	6" - 22.5° HB
3946947.05	11506733.73	10+41.23	6" - 22.5° HB
3946942.94	11506704.05	10+71.19	6" - 22.5° HB
3946954.10	11506661.26	11+15.40	6" - 22.5° HB
3946983.32	11506622.65	11+63.81	6" - 22.5° HB
3946993.82	11506601.52	11+83.55	ARV
3947017.43	11506602.65	12+03.34	6" - 22.5° HB
3947236.30	11506589.05	14+22.92	6" GV

HEATHER COURT			
NORTHING	EASTING	STATION	FITTING
3947253.83	11506367.88	0+00.00	8" TEE
3947251.53	11506367.15	0+02.42	8" GV
3947190.76	11506348.48	0+66.00	8" - 22.5° VB
3947183.64	11506346.77	0+73.33	8" - 22.5° VB
3947052.81	11506343.45	2+05.06	8"x6" TEE
3947050.75	11506332.03	2+05.06	FHA
3947049.48	11506344.04	2+08.44	8"x6" REDUCER
3947038.09	11506346.57	2+20.11	6" GV
3947817.92	11506461.07	4+69.68	6" TEE
3946811.76	11506451.12	4+69.68	FHA
3947815.39	11506462.63	4+72.65	6"x4" REDUCER
3947742.86	11506507.43	5+57.89	4" - 22.5° HB
3947723.10	11506510.63	5+77.89	4" - 22.5° HB
3946694.16	11506528.51	6+11.93	4" - 22.5° HB
3946678.81	11506549.80	6+38.17	4" GV
3946671.05	11506560.55	6+51.43	BLOW-OFF

WREN COURT			
NORTHING	EASTING	STATION	FITTING
3948433.35	11506259.26	0+09.97	8" TEE
3948433.35	11506256.48	0+12.76	8" GV
3948433.35	11506251.13	0+18.10	8"x8" TEE
3948445.72	11506251.10	0+18.10	FHA
3948433.35	11506244.16	0+25.09	8"x6" REDUCER
3948430.43	11506163.79	1+05.53	6" - 22.5° HB
3948423.21	11506146.02	1+24.71	6" - 22.5° HB
3948386.10	11506108.71	1+77.11	6" - 22.5° HB
3948225.79	11506030.26	3+55.88	6"-11.25° HB
3948195.41	11506022.02	3+87.38	6" GV
3948183.57	11506018.80	3+99.63	6" - 22.5° HB
3948178.08	11506018.42	4+05.14	6" TEE
3948176.62	11506039.41	4+05.14	FHA
3948155.19	11506016.84	4+28.08	6" - 22.5° HB
3948095.88	11506036.75	4+90.63	6" - 22.5° HB
3948070.81	11506058.59	5+23.87	6"-11.25° HB
3948049.75	11506085.85	5+58.32	6"-11.25° HB
3948039.19	11506107.10	5+82.04	6" - 22.5° HB
3948034.55	11506174.55	6+49.64	6" - 22.5° HB
3948069.98	11506278.76	7+59.71	6" GV
3948070.74	11506280.82	7+61.91	8"x6" TEE

DICKERSON ROAD			
NORTHING	EASTING	STATION	FITTING
3948818.87	11506050.36	0+00.00	8" TS&V
3949094.32	11506423.12	4+69.05	8" GV
3949096.20	11506426.86	4+73.24	8" TEE
3949098.20	11506425.88	4+73.24	8" GV
3949099.68	11506425.15	4+73.24	8" PLUG
3949098.09	11506430.61	4+77.43	8" GV
3949125.54	11506485.32	5+38.64	8" TS&V

BRIARWOOD DRIVE			
NORTHING	EASTING	STATION	FITTING
3947021.75	11505949.97	0+00.00	8" TS&V
3947028.14	11505939.13	0+12.58	8" - 90° HB
3947045.64	11515949.46	0+32.90	8"x6" TEE
3947053.48	11505936.54	0+32.90	FHA
3947350.37	11506164.44	4+06.54	8" GV
3947352.69	11506165.57	4+09.13	8" TEE
3947355.17	11506166.76	4+11.88	8" GV
3947620.01	11506251.11	6+90.38	8" GV
3947626.48	11506252.78	6+97.06	8" TEE
3947629.24	11506253.51	6+99.92	8" GV
3947855.19	11506388.82	9+65.45	8" - 11.25° HB
3947860.13	11506394.44	9+72.94	8" GV
3947862.16	11506396.76	9+76.02	8" TEE

SOIL BORING SCHEDULE					
ID	SHEET	NORTHING	EASTING	DEPTH	CORROSION TEST
B-1	C-1/C-11	3948432.97	11506258.61	8'	INCLUDED
B-2	C-1	3948030.48	11506291.16	8'	NOT INCLUDED
B-3	C-2/C-5	3947867.67	11506381.26	8'	NOT INCLUDED
B-4	C-2	3947719.48	11506713.62	6'	INCLUDED
B-5	C-3/C-5	3947660.32	11506259.63	8'	NOT INCLUDED
B-6	C-3	3947704.35	11505929.92	6'	INCLUDED
B-7	C-4	3947051.24	11505948.24	8'	INCLUDED
B-8	C-4/C-6	3947358.86	11506163.47	8'	INCLUDED
B-9	C-6/C-9	3947187.81	11506345.37	8'	INCLUDED
B-10	C-7	3947239.76	11506588.81	8'	NOT INCLUDED
B-11	C-7	3947047.17	11506845.87	6'	INCLUDED
B-12	C-10	3946704.96	11506572.61	8'	INCLUDED
B-13	C-13	3948839.54	11506069.16	6'	INCLUDED
B-14	C-13	3948999.33	11506256.72	6'	NOT INCLUDED
B-15	C-13	3949101.95	11506439.49	6'	INCLUDED
B-16	C-12	3948126.30	11506036.73	6'	INCLUDED

PROPOSED EASEMENT DATA				
PARCEL ID	LAND OWNER	SHEET	EASEMENTS	
			PERMANENT	TEMPORARY
			SQ. FEET	SQ. FEET
TMP 32G-07-07	COOKE, LLC	C-1	26.65	0
TMP 32G-02-86	LINDA C. BUMGARDNER	C-6	32.95	0
TMP 32G-1R6	BOULDER VIEW LLC	C-1	47.00	0
TMP 32G-01--1	LINDSAY N. AND MAURICE A. FEGGANS	C-4	78.00	0

2



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THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR TO DETERMINE THE ACTUAL SIZE. DRAWING IS NOT SCALABLE IF NO SCALE BAR IS PRESENT.

CLIENT
ALBEMARLE COUNTY
SERVICE AUTHORITY

2	03/19/2025	ADDENDUM 1	MLH
1	03/06/2025	REISSUED FOR BID	MLH
NO.	DATE	REVISION	INT.

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE			
MLH			
DESIGNED BY	FILE NO.		
DSS	1087705-1940100728		
CHECKED BY	DATE		
RJD	MARCH 2025		
DRAWN BY			
RPW			

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY



PROJECT
BRIARWOOD WATER MAIN REPLACEMENT

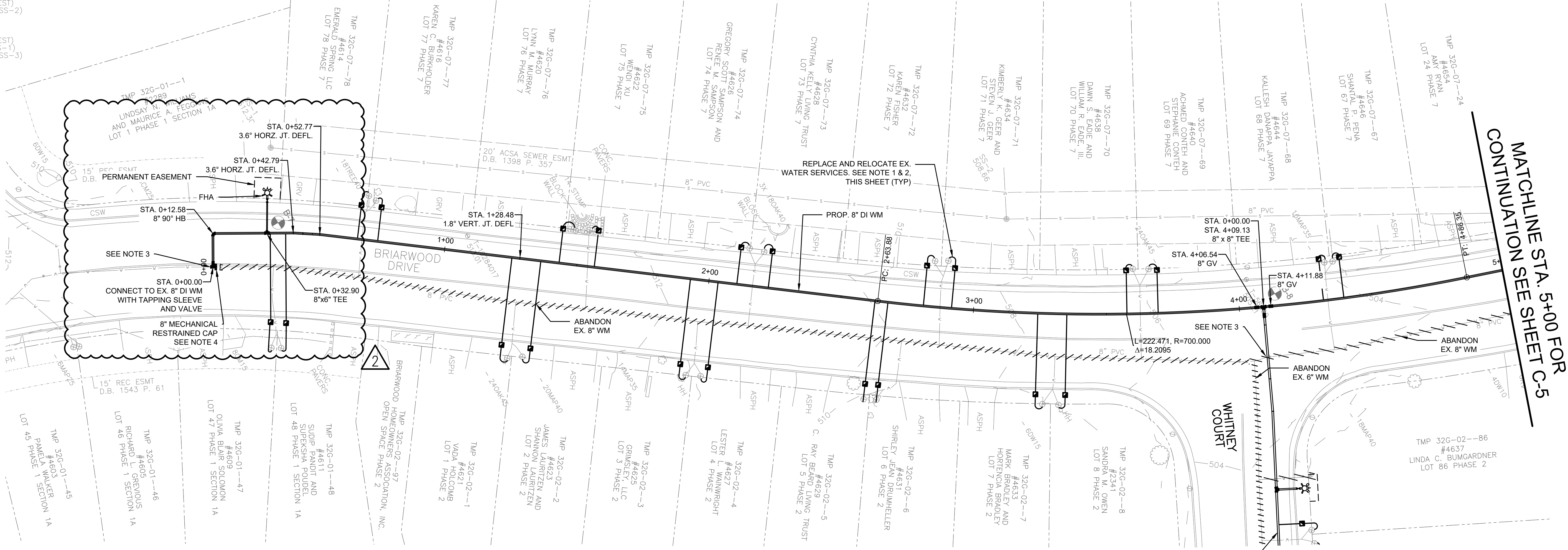
ADDRESS
BRIARWOOD SUBDIVISION - ALBEMARLE COUNTY, VIRGINIA

SHEET DESCRIPTION
SCHEDULES AND TABLES

DRAWING LOCATION
CHARLOTTESVILLE VIRGINIA

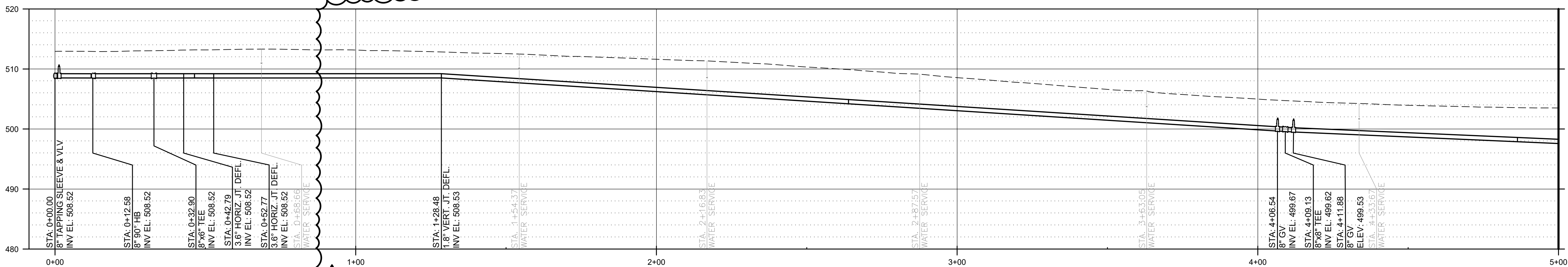
SS-1
512.30
IN: 8" PVC 490.08(WEST)
OUT: 8" PVC 489.85(SS-2)

SS-2
508.66
IN: 4" PVC 488.89(WEST)
IN: 8" PVC 488.57(SS-1)
OUT: 8" PVC 488.52(SS-3)



SHEET NOTES

1. PRESSURE REGULATING VALVES (PRV) HAVE BEEN LOCATED ADJACENT TO METER BOXES WITHIN THE PROJECT AREA. PRV REPLACEMENT/INSTALLATION SHALL BE COMPLETED AT THE DIRECTION OF ACSA.
2. CONTRACTOR SHALL FIELD LOCATE NEW METER CLOSER TO THE CURB. COORDINATE EXACT LOCATION WITH AUTHORITY. CONTRACTOR SHALL PROVIDE 1" HDPE PIPE (PE3408DR9) BETWEEN THE NEW METER AND EXISTING SERVICE.
3. LOCATION OF EX. WATER MAIN IS APPROXIMATE. CONTRACTOR SHALL TEST PIT TO CONFIRM LOCATION, ALIGNMENT, DEPTH, AND MATERIAL OF EX. WATER MAIN AND PROVIDE RESULTS TO THE ACSA PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONNECT ONLY TO DUCTILE IRON PIPING WITH TAPPING SLEEVE. IF EXISTING MAIN IS DETERMINED TO BE CONSTRUCTED OF A DIFFERENT PIPE MATERIAL, CONTRACTOR SHALL LOCATE DUCTILE IRON PORTION FOR CONNECTION.
4. UPON INSTALLATION AND ACCEPTANCE OF THE PROPOSED WATER MAIN, CONTRACTOR SHALL CUT AND REMOVE EXISTING PIPE AS REQUIRED TO FACILITATE ABANDONMENT OF EXISTING WATER MAIN AND INSTALLATION OF MECHANICAL RESTRAINED CAP AS SHOWN AND THRUST BLOCK. CAP SHALL BE MECHANICALLY RESTRAINED BACK TO THE TAPPING SLEEVE. CONTRACTOR SHALL INSTALL A THRUST BLOCK ON THE BACK SIDE OF THE RESTRAINED CAP IN ACCORDANCE WITH THE DETAIL ON SHEET C-15.



PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



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CLIENT
**ALBEMARLE COUNTY
SERVICE AUTHORITY**

NO.	DATE	REVISION	BY	INT.
2	03/19/2025	ADDENDUM 1	MLH	
1	03/06/2025	REISSUED FOR BID	MLH	
			RPW	

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE	FILE NO.
MLH	1087705_1940100728
DESIGNED BY	DATE
DS	MARCH 2025
CHECKED BY	
RJD	
DRAWN BY	
RPW	

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY
RAMBOLL

PROJECT
BRIARWOOD WATER MAIN REPLACEMENT

ADDRESS
BRIARWOOD SUBDIVISION - ALBEMARLE COUNTY, VIRGINIA

SHEET DESCRIPTION
**PLAN AND PROFILE - BRIARWOOD DR.
STA. 0+00 TO STA. 5+00**

DRAWING LOCATION
CHARLOTTESVILLE VIRGINIA



Mar-19-2025

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**ALBEMARLE COUNTY
SERVICE AUTHORITY**

NO.	DATE	REVISION	INT.
2	03/19/2025	ADDENDUM 1	MLH
1	03/06/2025	REISSUED FOR BID	MLH

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE	
MLH	FILE NO.
DESIGNED BY	1087705.1940\100728
DSS	DATE
CHECKED BY	MARCH 2025
RJD	
DRAWN BY	
RPW	

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY



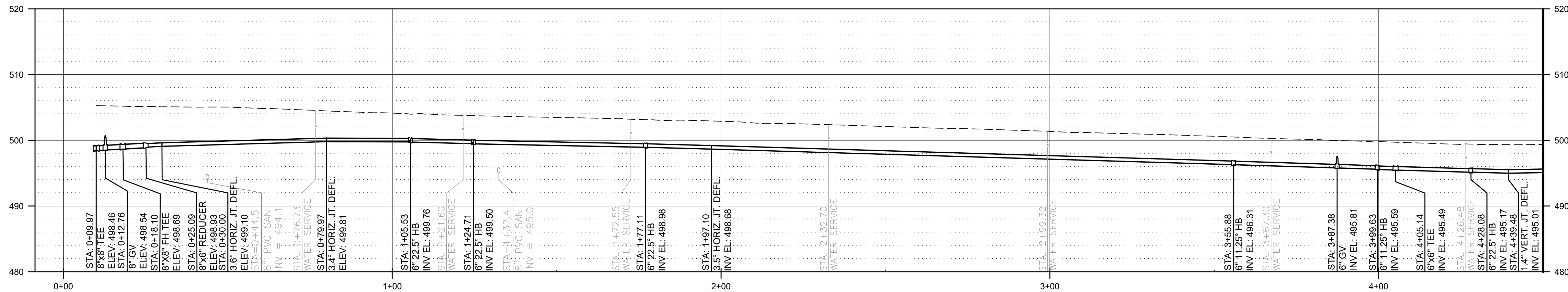
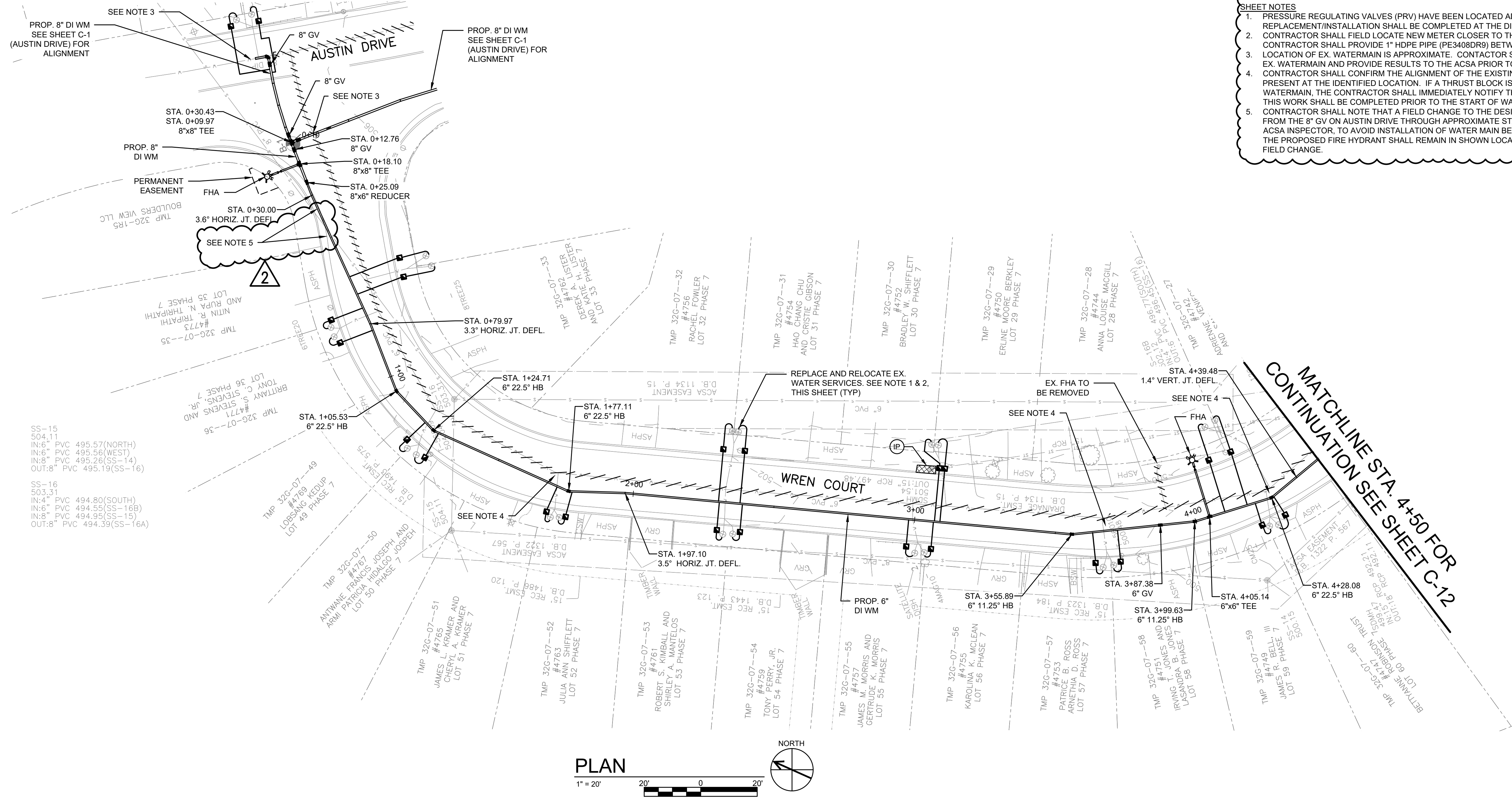
PROJECT
BRIARWOOD WATER MAIN REPLACEMENT

ADDRESS
BRIARWOOD SUBDIVISION - ALBEMARLE COUNTY, VIRGINIA

SHEET DESCRIPTION
**PLAN AND PROFILE - WREN CT.
STA. 0+00 TO STA. 4+50**

DRAWING LOCATION
CHARLOTTESVILLE VIRGINIA

C-11

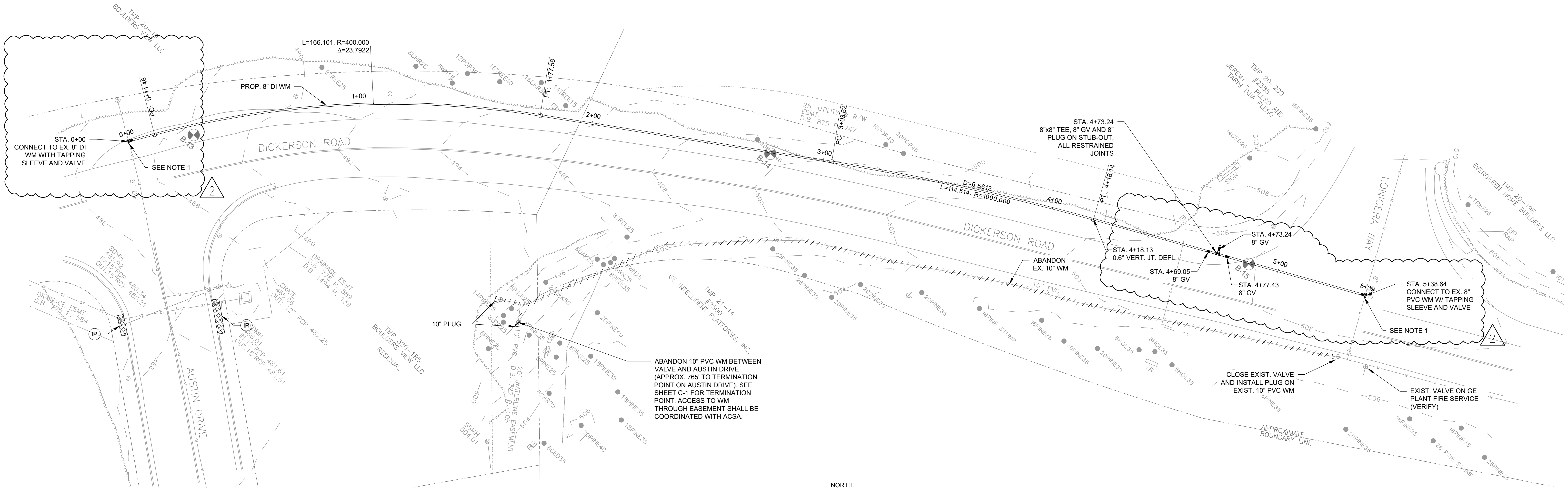


- SHEET NOTES
- PRESSURE REGULATING VALVES (PRV) HAVE BEEN LOCATED ADJACENT TO METER BOXES WITHIN THE PROJECT AREA. PRV REPLACEMENT/INSTALLATION SHALL BE COMPLETED AT THE DIRECTION OF ACSA.
 - CONTRACTOR SHALL FIELD LOCATE NEW METER CLOSER TO THE CURB. COORDINATE EXACT LOCATION WITH AUTHORITY. CONTRACTOR SHALL PROVIDE 1" HDPE PIPE (PE3408DR9) BETWEEN THE NEW METER AND EXISTING SERVICE.
 - LOCATION OF EX. WATERMAIN IS APPROXIMATE. CONTRACTOR SHALL TEST PIT TO CONFIRM LOCATION, ALIGNMENT AND DEPTH OF EX. WATERMAIN AND PROVIDE RESULTS TO THE ACSA PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL CONFIRM THE ALIGNMENT OF THE EXISTING WATERMAIN AND IDENTIFY WHETHER THRUST BLOCKS ARE PRESENT AT THE IDENTIFIED LOCATION. IF A THRUST BLOCK IS PRESENT THAT INTERFERES WITH INSTALLATION OF THE PROPOSED WATERMAIN, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. PER THE SEQUENCING CONDITIONS OF THE CONTRACT, THIS WORK SHALL BE COMPLETED PRIOR TO THE START OF WATERMAIN CONSTRUCTION.
 - CONTRACTOR SHALL NOTE THAT A FIELD CHANGE TO THE DESIGN LOCATION OF THE PROPOSED WATER MAIN WITHIN WREN COURT FROM THE 8" GV ON AUSTIN DRIVE THROUGH APPROXIMATE STATION 0+80 (WREN COURT) IS PERMISSABLE, IN CONSULTATION WITH ACSA INSPECTOR, TO AVOID INSTALLATION OF WATER MAIN BENEATH EXISTING CURB AND GUTTER AT APPROXIMATE STATION 0+30. THE PROPOSED FIRE HYDRANT SHALL REMAIN IN SHOWN LOCATION WITH FHA LATERAL EXTENDED, AS REQUIRED, TO FACILITATE FIELD CHANGE.

2

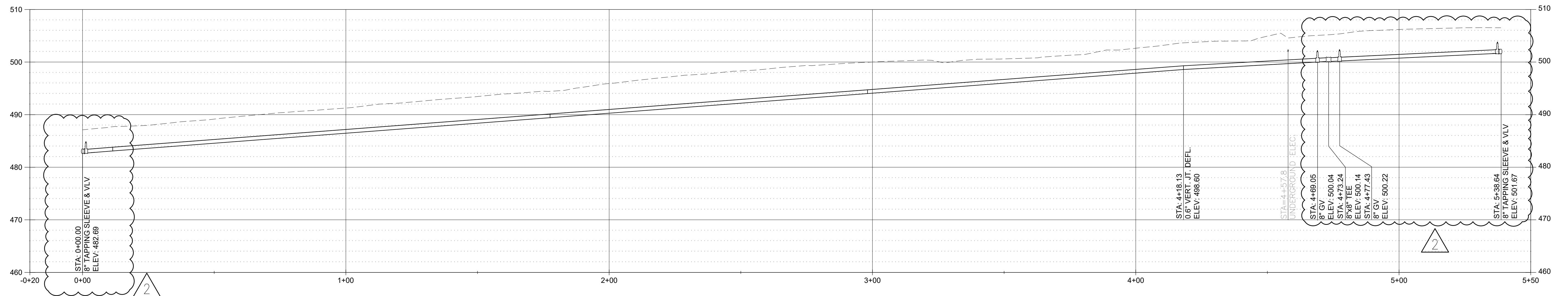
MATCHLINE STA. 4+50 FOR
CONTINUATION SEE SHEET C-12

MATCHLINE STA. 4+50 FOR
CONTINUATION SEE SHEET C-12



SHEET NOTES

1. LOCATION OF EX. WATERMAIN IS APPROXIMATE. CONTACTOR SHALL TEST PIT TO CONFIRM LOCATION, ALIGNMENT AND DEPTH OF EX. WATERMAIN AND PROVIDE RESULTS TO THE ACSA PRIOR TO CONSTRUCTION.



PROFILE

SCALE: HORIZ. 1"=20'
VERT. 1"=10'



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**ALBEMARLE COUNTY
SERVICE AUTHORITY**

NO.	DATE	REVISION	INT.
2	03/19/2025	ADDENDUM 1	MLH
1	03/06/2025	REISSUED FOR BID	MLH

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE
MLH
DESIGNED BY
DSS
CHECKED BY
RJD
DRAWN BY
RPW

FILE NO.
1087705.1940100728
DATE
MARCH 2025

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY
RAMBOLL

PROJECT
BRIARWOOD WATER MAIN REPLACEMENT

ADDRESS
BRIARWOOD SUBDIVISION - ALBEMARLE COUNTY, VIRGINIA

SHEET DESCRIPTION
**PLAN AND PROFILE - DICKERSON RD. STA.
0+00 TO STA. 5+36**

DRAWING LOCATION
CHARLOTTESVILLE VIRGINIA

FOR CONTINUATION
SEE SHEET C-16

LEGEND

- AUSTIN-BRIARWOOD DRIVE
PROPOSED LIMITS OF ASPHALT
PAVEMENT MILL & OVERLAY
- NEIGHBORHOOD STREETS
PROPOSED LIMITS OF ASPHALT
PAVEMENT MILL & OVERLAY

REPLACE ALL MANHOLE FRAMES
AND COVERS WITHIN THE
PAVEMENT RESTORATION LIMIT.
SEE DETAIL ON SHEET C-15.

VDOT PAVEMENT NOTE

- CONTRACTOR TO PERFORM A MINIMUM OF TWO IN-SITU CBR TESTS AT SUBGRADE LEVEL DURING CONSTRUCTION. ONE TEST OF AUSTIN OR BRIARWOOD DRIVE; ONE TEST OF ANY ONE OF THE NEIGHBORHOOD STREETS TO VERIFY THE ASSUMED SSV USED FOR PAVEMENT RESTORATION. ASSUMED SSV VALUE USED FOR EACH PAVEMENT RESTORATION DETAIL =5.0. SINCE RESILIENCY FACTOR (RF), PER VDOT PAVEMENT DESIGN GUIDE FOR SUBDIVISION AND SECONDARY ROADS IN VIRGINIA, FOR ALBEMARLE COUNTY = 1.0, AND SINCE SSV IS GIVEN BY THE EQUATION: $SSV = \text{DESIGN CBR} \times RF$, DESIGN CBR =SSV. A CBR TEST VALUE AT SUBGRADE DURING CONSTRUCTION OF EITHER A NEIGHBORHOOD OR A COLLECTOR STREET ≥ 5.0 IS SUFFICIENT INDICATION THAT PAVEMENT RESTORATION DETAILS ARE SUFFICIENT. NOTE: PERFORM TESTS AT ELEVATION OF LOWER BOUNDARY OF EXISTING ROADWAY BASE STONE. EXERCISE CAUTION TO AVOID EITHER DISTURBING OR COMPACTING SUBGRADE EARTH, PRIOR TO TESTING. COORDINATE AND PERFORM TESTS ACCORDING TO APPROVED VDOT METHODOLOGY; REPORT IN-SITU CBR TEST RESULTS TO: DESIGN ENGINEER (RAMBOLL), ALBEMARLE COUNTY SERVICE AUTHORITY, AND VDOT CHARLOTTESVILLE RESIDENCY, ATTENTION DANNY MARTINEZ, P.E. ASSISTANT RESIDENT ENGINEER.



IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS ACTING UNDER THE DIRECTION OF A
LICENSED ENGINEER, TO ALTER THIS DOCUMENT.

THIS DRAWING WAS PREPARED AT THE SCALE INDICATED. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED
WHEN DRAWINGS ARE REPRODUCED BY ANY MEANS. USE THE GRAPHIC SCALE BAR TO DETERMINE THE ACTUAL SCALE.
DRAWING IS NOT SCALABLE IF NO SCALE BAR IS PRESENT.

CLIENT
**ALBEMARLE COUNTY
SERVICE AUTHORITY**

NO.	DATE	REVISION	INT.
2	03/19/2025	ADDENDUM 1	MLH
1	03/06/2025	REISSUED FOR BID	MLH

DESIGNER / PROFESSIONAL ENGINEER RESPONSIBLE
MLH
DESIGNED BY
DSS
CHECKED BY
RJD
DRAWN BY
IH
FILE NO.
1087705.1940100728
DATE
MARCH 2025

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.
A RAMBOLL COMPANY
RAMBOLL

PROJECT
BRIARWOOD WATER MAIN REPLACEMENT
ADDRESS
BRIARWOOD SUBDIVISION - ALBEMARLE COUNTY, VIRGINIA

SHEET DESCRIPTION
PAVEMENT PLAN 2
DRAWING LOCATION
CHARLOTTESVILLE VIRGINIA

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SECTION 00400

BID FORM

TO: ALBEMARLE COUNTY SERVICE AUTHORITY

FOR: Briarwood Water Main Replacement Project (ACSA Project Number 2021-01)

The undersigned, bidder, proposes to enter into a contract with the ACSA in accordance with the attached documents, to furnish all necessary materials, equipment, machinery, tools, and labor necessary to complete the work described herein.

The bidder hereby agrees to commence work under this bid when given the "Notice to Proceed" and to fully complete the contract within 210 consecutive calendar days. The bidder agrees that they will not make any claim for extra compensation should completion of work under the contract be affected in advance of the time specified.

The Bidder has carefully examined the site of the Work and that, from his own investigations, has been satisfied as to the nature and location of the Work; the character, quality and quantity of existing materials and all conditions likely to be encountered; the kind and extent of equipment and other facilities needed for the performance of the Work; the general and local conditions; and all other items which reasonably may be expected to affect the Work or its performance.

The undersigned, as Bidder, also declares that they have carefully examined and fully understand all the component parts of the Contract Documents and agrees to execute the Contract and furnish Performance and Payment Bonds and Insurance, if required by the Contract Documents, and will completely perform the Work in strict accordance with the terms of the Contract Documents for the prices set forth on the following page(s).

The bidder agrees that, upon receipt of a "Notice of Award" from the ACSA, they will, within fifteen (15) days from receipt of such notice, execute the Standard Form of Agreement bound herein, and will furnish with the Agreement the following: Certificate of Insurance coverage of all of their operations associated with the project, Performance Bond, and Payment Bond.

The bidder understands that the ACSA reserves the right, in the ACSA's sole discretion to reject any or all bids, to waive any informality in any bid, and to accept any bid considered to be advantageous to the ACSA.

The bidder agrees that this bid shall not be withdrawn for a period of ninety (90) calendar days after the date set for receipt of bids, except as allowed by law.

The undersigned, as bidder, hereby declares that the name (or names) of the only person (or persons) interested in this proposal, as principal (or principals), is (are) as herein below set out and that no person other than that (or those) herein below stated has any interest in the proposal, or in the Agreement to be entered into, that this proposal is made without connection with any other person, firm, or corporation making a proposal; and that it is in all respects fair, in good faith, and without collusion or fraud.

ALBEMARLE COUNTY SERVICE AUTHORITY
 Briarwood Water Main Replacement Project

INSTRUCTIONS: The Bidder shall fill in all blanks providing the following: The Bidder's proposed amount of cost per Unit Price in words; the Bidder's proposed Unit Price in figures; and the Bidder's proposed computed total price in figures, for each Contract Item described below. (The computed total price is obtained by multiplying the Estimated Quantity by the Bidder's Unit Price.) Written amounts shall govern in case of discrepancy between the amounts stated in writing and the amounts stated in figures. In case of discrepancy between unit prices and totals, unit prices will prevail. Refer to Section Advertisement for Bids for a detailed description of each contract item number.

All blanks shall be filled in:

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
1	Mobilization (Item not to exceed <u>3%</u> of computed total amount for all contract items) ____ Dollars and ____ Cents	1 LS	\$ _____	\$ _____
2	4-Inch Ductile Iron Water Main ____ Dollars and ____ Cents	288 LF	\$ _____	\$ _____
3	4-Inch Gate Valves w/ Boxes ____ Dollars and ____ Cents	2 EA	\$ _____	\$ _____
4	6-Inch Ductile Iron Water Main ____ Dollars and ____ Cents	2,166 LF	\$ _____	\$ _____
5	6 - inch Gate Valves with Boxes ____ Dollars and ____ Cents	3 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
6	8-Inch Ductile Iron Water Main _____ Dollars and _____ Cents	3,446 LF	\$ _____	\$ _____
7	8- inch Gate Valves with Boxes _____ Dollars and _____ Cents	26 EA	\$ _____	\$ _____
8	8-Inch Tapping Sleeve and Valve _____ Dollars and _____ Cents	3 EA	\$ _____	\$ _____
9	1-Inch Copper Water Service Line _____ Dollars and _____ Cents	3,458 LF	\$ _____	\$ _____
10	Water Service Connection - Not In Pavement _____ Dollars and _____ Cents	209 EA	\$ _____	\$ _____
11	Fire Hydrant Assembly _____ Dollars and _____ Cents	9 EA	\$ _____	\$ _____

CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
12	Blow-off Assembly _____ Dollars and _____ Cents	2 EA	\$ _____	\$ _____
13	Air Release Valve Assembly _____ Dollars and _____ Cents	1 EA	\$ _____	\$ _____
14	Flowable Fill _____ Dollars and _____ Cents	75 CY	\$ _____	\$ _____
15	Asphalt Pavement Restoration – Asphalt Base Course (Type IM-19.0) _____ Dollars and _____ Cents	1,450 TON	\$ _____	\$ _____
16	Asphalt Pavement Restoration – Asphalt Surface Course (Type SM-9.5A) _____ Dollars and _____ Cents	19,000 SY	\$ _____	\$ _____
17	Manhole Frame and Cover Replacement – In Pavement _____ Dollars and _____ Cents	7 EA	\$ _____	\$ _____
18	Traffic Control _____ Dollars and _____ Cents	1 LS	\$ _____	\$ _____

CONTINGENT BID ITEMS				
CONTRACT ITEM NO.	DESCRIPTION OF WORK PRICE IN WORDS	ESTIMATED QUANTITY	UNIT PRICE	COMPUTED TOTAL PRICE
19	Additional Excavation Below Specified Subgrade _____ Dollars and _____ Cents	200 CY	\$ _____	\$ _____
20	Test Pits Ordered by Engineer _____ Dollars and _____ Cents	5 EA	\$ _____	\$ _____
21	Select Fill - Aggregate Stone _____ Dollars and _____ Cents	200 CY	\$ _____	\$ _____
22	Select Fill – Suitable Earth _____ Dollars and _____ Cents	100 CY	\$ _____	\$ _____
23	Temporary Pavement Restoration _____ Dollars and _____ Cents	100 SY	\$ _____	\$ _____
24	PRV Replacement – Behind Water Meter _____ Dollars and _____ Cents	15 EA	\$ _____	\$ _____

Computed Total Amount for All Contract Items (Sum of Contract Items 1 through 24 above) _____ _____ _____ Dollars and _____ Cents	
--	--

The Bid must be sworn to by the person signing it in one of the following forms:

(Form of affidavit where Bidder is an individual)

_____ of _____
(City or County) (State or Commonwealth)

being duly sworn, deposes and says: That I am the person described in and who executed the foregoing Bid
and that the several matters therein stated are in all respects true.

(Signature)

STATE OF VIRGINIA
CITY/COUNTY OF _____

The foregoing instrument was acknowledged before me this ____ day of ____, ____, by _____
_____.

Notary Public

My Commission Expires: _____

Notary Registration Number: _____

(SEAL)

(Form of affidavit where Bidder is a partnership)

_____ of _____
(City or County) (State or Commonwealth)

being duly sworn, deposes and says: That I am a general partner of

the partnership described in and which executed the foregoing Bid; that I duly subscribed the name of the partnership thereunto on behalf of the partnership; and that the several matters therein stated are in all respects true.

(Signature)

STATE OF VIRGINIA

CITY/COUNTY OF _____

The foregoing instrument was acknowledged before me this ____ day of ____, ____, by _____
_____.

Notary Public

My Commission Expires: _____

Notary Registration Number: _____

(SEAL)

(Form of affidavit where Bidder is a corporation)

_____ of _____
(City or County) (State or Commonwealth)

being duly sworn, deposes and says: That I reside in the City of _____; that I am the _____
_____ of _____
(Title) (Name of Company)

the corporation described in and which executed the foregoing instrument; that I know the seal of the corporation; that the seal affixed to this instrument is such corporate seal and was so affixed by order of the Board of Directors of the corporation; that I signed my name thereto by like order; and that I have knowledge of the several matters therein stated and they are in all respects true.

(Signature)

STATE OF VIRGINIA
CITY/COUNTY OF _____

The foregoing instrument was acknowledged before me this ____ day of ____, ____, by _____
_____.

Notary Public

My Commission Expires: _____

Notary Registration Number: _____

(SEAL)

END OF SECTION 00400

SECTION 01 02 00

MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.1 BASIS FOR MEASUREMENT AND PAYMENT

Measurement and Payment will be made for only those items included in the Contract Bid Form or Contract Change Order(s) for the Project.

- A. All Measurement for payment will be for completed work performed according to Contract Drawings, Specifications, Construction Details and the Bid Form. The Owner shall measure the work in accordance with the methods outlined below.
- B. Payment for any item is full compensation for furnishing all labor, materials and equipment required to acceptably complete the item of the work. Any work and material paid for under one item will not be paid for under another item though the work and material may enter another item.

PART 2 – CONTRACT ITEMS

Contract Items include those items which are fully defined in the contract drawings and specifications and anticipated to be required for completion of the work.

2.1 MOBILIZATION (BID ITEM NO. 1)

- A. Measurement
 - 1. Measurement for mobilization shall be the job, with no accrual unit of measure taken, and shall include:
 - a. Movement to, placement and set-up on project site of personnel of any type, equipment, supplies, and accessory items.
 - b. Establishment of Contractor offices, buildings, proper sanitary facilities and other needed project facilities plus utility work and connections needed for these facilities.
 - c. Scheduling details, coordination, and any other work and expense appropriate that is prior to the start of work under contract pay items.
 - d. The cost of required insurance and bonds and/or any initiation of the contract work is also included in this item.
 - e. The cost of acquiring required permits and approvals as necessary in order to complete the Work.
 - f. Site preparation and set up including clearing and grubbing, removal of temporary utilities, and site restoration.
 - g. Installation of sediment and erosion control measures and removal of same upon completion of the work.
 - h. All labor, materials, and equipment required to control and maintain traffic patterns in a safe and efficient manner on roadways, parking lot areas, public access ways, and paved roadway shoulders during installation activities.
 - i. Pre- and post-construction photographic and video documentation.

- j. Demobilization from project site, including removal of personnel, equipment, supplies, and accessories.
 - k. All other work required for a complete project, which is not included in other bid items.
 - 2. No additional payment will be made for demobilization and remobilization due to shutdowns, suspensions of the work or for other mobilization activities. The Contractor's total price for Mobilization shall not exceed three percent (3%) of the total bid price for the project, including contingent items.
- B. Payment
- 1. Payment for Mobilization will be made at the Lump Sum price as stated in the Bid Form.
 - 2. Payment shall be made in two installments. The first fifty percent (50%) of the amount bid for this Item shall be made payable to the Contractor as part of the Contractor's first progress payment request. The second and final payment of fifty percent (50%) of the amount bid for this Item shall be made payable to the Contractor in conjunction with Final Payment of the project.
 - 3. Payment of the Contract lump sum price for mobilization and furnishing all labor, materials, tools, and equipment needed to complete work will not be made more than once, regardless of the fact that the Contractor may have, for any reason, shut down his work on the project or moved equipment away from the project and then back again.

2.2 FURNISH AND INSTALL DUCTILE IRON WATER MAIN (BID ITEMS NO. 2, 4, AND 6)

- A. Measurement
- 1. Unit of Measurement for Ductile Iron Pipe shall be the linear foot of each size installed and accepted following testing. Measurement shall include all labor, materials, and equipment required to install ductile iron pipe and fittings as shown on the Contract Documents and as specified herein.
- B. Payment
- 1. Payment for ductile iron pipe shall be at the contract unit price per linear foot installed, including all fittings and appurtenances as shown on the Contract Drawings. Payment and price shall constitute full compensation for all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents including, but not limited to:
 - a. Survey, layout and measurement;
 - b. Test pits;
 - c. Excavation (including rock), dewatering, bedding, and suitable backfill/select fill, aggregate stone, and aggregate base course.
 - d. Replacing utility segments that are damaged or removed during the installation;
 - e. Temporary road restoration for all trenches, as required;
 - f. Concrete and mechanical thrust restraint systems;
 - g. Insulation and polyethylene encasement, as specified;
 - h. Concrete cradle, as specified;
 - i. Water main disinfection and testing; leakage testing; and compaction testing;
 - j. Abandonment of existing water mains, indicated in the Contract Documents;

- k. Removal/disposal of existing fire hydrants, meter boxes, valves, blow-offs and associated appurtenances as indicated in the Contract Documents.
- l. Site clearing and grubbing, including tree removal.
- m. Surface restoration, including restoration of asphalt driveways, concrete sidewalks, concrete curbs and gutters, and/or concrete v-ditch.
- n. Temporary water service, as required.
- 2. Excavation shall be made in accordance with the trenching details provided in the Contract Documents. Additional excavation due to the Contractor's means and methods for construction or when not required due to unknown utility conflicts shall be not paid as additional work. No payment shall be made for unsuitable backfill not ordered or approved by the Engineer.

2.3 FURNISH AND INSTALL GATE VALVES AND BOXES (BID ITEM NO. 3, 5, AND 7)

- A. Measurement
 - 1. Unit of measure for Gate Valves shall be for each gate valve, valve box, and valve box extension installed and shall include all labor, materials, and equipment required to install the gate valve, riser, valve box and appurtenances in accordance with the Contract Documents. Measurement will be based on the actual number of gate valves installed. Gate valves and valve box installed as part of a Fire Hydrant Assembly are not included.
- B. Payment
 - 1. Payment for gate valves and boxes shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill, thrust restraint, valve, riser, valve box, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.4 8-INCH TAPPING SLEEVE AND VALVE (BID ITEM NO. 8)

- A. Measurement
 - 1. Unit of measure for 8-Inch Tapping Sleeve and Valve shall be for each tapping sleeve, tapping valve, valve box, and valve box extension installed and shall include all labor, materials, and equipment required to install the tapping sleeve and valve on the existing water main, tap the main, install riser, valve box and appurtenances in accordance with the Contract Documents. Measurement will be based on the actual number of tapping sleeves and valves installed.
- B. Payment
 - 1. Payment for tapping sleeve and valve shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for excavation (including rock), cleaning existing pipe, suitable backfill, thrust restraint, tapping sleeve, tapping valve, riser, valve box, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents

2.5 FURNISH AND INSTALL 1-INCH COPPER WATER SERVICE LINE (BID ITEM NO. 9)

- A. Measurement

1. Unit of measurement for 1-inch copper water service line shall be per linear foot installed. Measurement shall include all labor, materials and equipment required to install 1-inch copper water service pipe and fittings to provide service to the current and future customers. Measurement will be the actual linear foot of 1-inch copper pipe installed and accepted following testing. Measurement includes fittings, piping, fill material, 2-inch casing pipe (PVC SDR 21 or HDPE DR11) and appurtenances.

B. Payment

1. Payment for water 1-inch copper water service line shall be at the contract unit price per linear foot installed. Payment and price shall constitute full compensation for all labor, materials, excavation (including rock), dewatering, bedding, suitable backfill/select fill, aggregate stone, and aggregate base course, surface restoration, tools and equipment required to install 1-inch copper water service pipe, fittings, and incidentals necessary to instate the new water service and to complete the work as indicated on the Contract Documents. Unless otherwise indicated, excavation shall be made in accordance with the details as provided in the Contract Documents. Unless otherwise indicated

2.6 FURNISH AND INSTALL WATER SERVICE CONNECTION - NOT IN PAVEMENT (BID ITEM NO. 10)

A. Measurement

1. Unit of measurement for water service connections – not in pavement shall be for each meter installed and water service connection furnished and installed in an unpaved surface. Measurement shall include all labor, materials and equipment required to locate and install the meter box with lid, water meter (5/8" – 1"), meter setter, corporation stop, tap and all related appurtenances; and to reconnect water service, including installation of 1" HDPE pipe (PE3408, DR 9) from the existing meter to new meter, as shown on the Contract Documents. Proposed water meters will be provided by Albemarle County Service Authority for Contractor to install. Restoration of asphalt pavement surfaces in public roads is not included.

B. Payment

1. Payment for the water service connection – not in pavement shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, excavation (including rock), dewatering, bedding, suitable backfill, surface restoration (including restoration of asphalt driveways, concrete sidewalks, concrete curbs and gutters, and concrete v-ditch), tools and equipment required to locate and install the meter box, and incidentals necessary to reconnect the water service and complete the work as indicated on the Contract Documents. Unless otherwise indicated, excavation shall be made in accordance with the details as provided in the Contract Documents.

2.7 FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (BID ITEM NO. 11)

A. Measurement

1. Unit of measure for fire hydrant assembly shall be for each fire hydrant assembly installed and shall include all labor, materials and equipment required to install the fire hydrant; vertical riser piping; tees/taps from the water main; lead and branch pipe; valve, valve box, and valve box

extension; bends on lead piping; and other related appurtenances for the complete and functional installation of the fire hydrant assembly as shown on the Contract Documents

B. Payment

1. Payment for fire hydrant assembly shall be at the contract unit price per each fire hydrant assembly installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill/select fill, aggregate stone, and aggregate base course, thrust blocks, fittings, restraining; testing; painting, salvaging of the existing fire hydrant, and all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the contract drawings and in the Contract Documents.

2.8 BLOW-OFF ASSEMBLY (BID ITEM NO. 12)

A. Measurement

1. Unit of measure for blow-off assembly shall be for each blow-off assembly installed and shall include all labor, materials and equipment required for the complete and functional installation of the blow-off assembly as shown on the Contract Documents.

B. Payment

1. Payment for blow-off assembly shall be the contract unit price per each blow-off assembly installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill/select fill, aggregate stone, and aggregate base course, fittings, testing, painting, all labor, materials equipment, tools and incidentals necessary to complete the work as indicated in the Contract Documents.

2.9 FURNISH AND INSTALL AIR RELEASE VALVE ASSEMBLY (BID ITEM NO. 13)

A. Measurement

1. Unit of measure for air release valve assembly shall be for each air release valve assembly installed and shall include all labor, materials and equipment required to install the air release valve, copper pipe, manhole cone section and lid, corporation stop, brass/bronze pipe and other related appurtenances for the complete and functional installation of the air release valve assembly as shown on the Contract Documents.

B. Payment

1. Payment for air release valve assembly shall be the contract unit price per each air release valve assembly installed. Payment and price shall constitute full compensation for excavation (including rock), suitable backfill/select fill, aggregate stone, and aggregate base course, fittings, testing, painting, all labor, materials, equipment, tools and incidentals necessary to complete the work as indicated on the Contract Documents.

2.10 FLOWABLE FILL (BID ITEM NO. 14)

A. Measurement

1. Unit of measure for flowable fill shall be for each cubic yard of flowable fill placed and shall include all labor, equipment and materials required to abandon existing water mains, as indicated on the Contract Documents,

and remove them from service following acceptance of the new mains.

B. Payment

1. Payment for flowable fill will be the contract unit price per cubic yard of flowable fill. Payment and price shall constitute full compensation for all excavation (including rock), suitable backfill/select fill, labor, materials, equipment, tools and incidentals necessary to completely abandon existing water mains to the limits indicated on the Contract Documents.

2.11 ASPHALT PAVEMENT RESTORATION – ASPHALT BASE COURSE (TYPE IM-19.0) (BID ITEM NO. 15)

A. Measurement

1. Unit of measure for asphalt base course shall be the actual tonnage of IM-19.0 pavement mix that is satisfactorily placed, as specified and/or detailed in the Contract Documents. Measurements shall include labor, materials, tools, equipment, and services necessary, including pavement milling where required, to complete the work specified.

B. Payment

1. Payment for asphalt base course shall be made at the Contract unit price per ton of IM-19.0 pavement mix that is satisfactorily placed, as specified and/or detailed in the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, including pavement milling where required, to complete the work specified.

2.12 ASPHALT PAVEMENT RESTORATION – ASPHALT SURFACE COURSE (TYPE SM-9.5A) (BID ITEM NO. 16)

A. Measurement

1. Unit of measure for asphalt surface course shall be the actual square yardage of SM-9.5A pavement mix that is satisfactorily overlaid on top of the existing pavement surface, as specified and/or detailed on the Contract Documents. Measurements shall include labor, materials, tools, equipment, and services necessary, including pavement milling where required, to complete the work specified.

B. Payment

1. Payment for asphalt surface course shall be made at the Contract unit price per square yard of SM-9.5A pavement mix that is satisfactorily overlaid on top of the existing pavement surface, as specified and/or detailed on the Contract Documents. Price and payment shall include labor, materials, tools, equipment, and incidentals needed, including pavement milling where required, to complete the work specified.

2.13 REPLACING EXISTING FRAME AND COVERS (BID ITEM NO. 17)

A. Measurement

1. Unit of measure for replacing existing frame and covers will be the actual number of each type of frame and cover replaced and shall include all materials, equipment and work required to replace existing frames and covers in paved areas as specified and in accordance with Specification Sections 33 05 13 – Precast Concrete Manhole and 33 01 30.81 – Manhole

Rehabilitation.

B. Payment

1. Payment for replacing existing frame and covers will be based on the unit price bid per each frame and cover replaced, which price and payment shall include all labor, materials, tools, equipment and incidentals needed to complete the work specified.

2.14 TRAFFIC CONTROL (BID ITEM NO. 18)

A. Measurement

1. Unit of measure for Traffic Control shall be on a lump sum basis for providing, operating and maintaining VDOT approved arrow boards, message boards, water filled barriers and/or crash trucks where required by VDOT and/or as directed by the Engineer and/or Owner, and shall include all labor, materials, tools, equipment, and services necessary to complete the work as specified and in accordance with VDOT standards.
2. All other traffic control measures (i.e. cones, flaggers, signs, etc.) will not be measured separately for payment but will be considered incidental to the work being performed.

B. Payment

1. Payment for traffic control will be made at the contract unit price per lump sum, which, price and payment shall include all labor, materials, tools, equipment and incidentals needed to complete the work specified
2. Traffic control measures utilized under this Bid Item must be approved by the Engineer and/or Owner prior to the work being performed. If these Bid Items are used without approval, no payment will be made.

PART 3 – CONTINGENT ITEMS

Contingent items include those items which may be required during the course of the performance of the work.

3.1 ADDITIONAL EXCAVATION BELOW SPECIFIED SUBGRADE (BID ITEM NO. 19)

A. Measurement

1. Where excavation below specified grade is performed as directed by the Owner or Engineer, measurement and payment shall be for each cubic yard of specified subgrade excavated. This item shall include all labor, equipment and disposal for removal of additional material.

B. Payment

1. Basis of Payment shall be for each cubic yard of specified subgrade excavated. Payment and price shall constitute full compensation for excavation (including rock) including all labor, equipment, tools and incidentals necessary to complete the work as directed by the Owner or Engineer, including removal and disposal of spoil. No payment shall be made for excavation not specifically directed by the Owner or Engineer.

3.2 TEST PITS ORDERED BY ENGINEER (BID ITEM NO. 20)

- A. Measurement
 - 1. This work shall consist of the labor, materials and equipment necessary for, and incidental to the provision and excavation of test pits as directed by Engineer or Owner including, but not limited to excavation (including rock), backfilling, and all restoration required in obtaining depth and location of existing structures or utilities. For the purpose of the bid price, the Contractor shall assume an excavation and backfill quantity of 1 cubic yard for each test pit, whether or not this number is actual. Method of Measurement shall be on a per each basis including all excavation, backfill, etc. required to complete the work. Locations for test pits will be as designated or directed by Engineer or Owner.
 - B. Payment
 - 1. Basis of payment for test pits shall be at the contract unit price for each test pit excavated. Payment and price shall constitute full compensation for excavation, backfill, and paving, furnishing all labor, equipment, tools and incidentals necessary to complete the work. No payment under this item shall be made for test pits not ordered by the Engineer or Owner.
- 3.3 SELECT FILL – AGGREGATE STONE (BID ITEM NO. 21)
- A. Measurement
 - 1. This work shall include all stone backfill below specified grade when required by unforeseen trench conditions as set forth in the Contract Documents. Aggregate Stone will be measured based on the actual cubic yardage of aggregate stone placed and approved for use by the Owner and shall include all labor, materials, tools, equipment, and services necessary to complete the work specified.
 - B. Payment
 - 1. Basis of payment for Aggregate Stone shall be at the contract unit price for each cubic yard of stone placed, as ordered by Owner or Engineer. Price and payment shall be inclusive of all labor, materials, tools, equipment and incidentals needed to complete the work as specified. No separate payment will be made for standard bedding; it is an incidental part of the work element to which it applies.
- 3.4 SELECT FILL – SUITABLE EARTH (BID ITEM NO. 22)
- A. Measurement
 - 1. This work shall include all select fill placed and compacted below specified grade when required by unforeseen trench conditions as set forth in the Contract Documents and as directed by Owner or Engineer. Select fill will be measured based on the actual compacted cubic yardage of material placed, inclusive of all labor, materials, tools, equipment, and services necessary to complete the work specified.
 - B. Payment
 - 1. Basis of payment for select fill shall be at the contract unit price for each cubic yard of material placed, as ordered or approved by Owner or Engineer. Price and payment shall be inclusive of all labor, materials, tools, equipment and incidentals needed to complete the work as specified. No separate payment will be made for standard bedding; it is an incidental part of the work element to which it applies.

3.5 TEMPORARY PAVEMENT RESTORATION (BID ITEM NO. 23)

- A. Measurement
 - 1. Unit of measure for temporary pavement restoration will be the square yard of temporary pavement (BM-25.0 base mix or “cold patch”) placed that is satisfactorily installed as directed by Owner or Engineer. The work shall include all labor, materials, tools, equipment and services necessary to complete the work specified.
- B. Payment
 - 1. Payment for temporary pavement restoration will be made at the contract unit price per square yard of temporary pavement (BM-25.0 base mix or “cold patch”) placed as designated, which price and payment shall include all labor, materials, tools, equipment and incidentals needed to complete the work. No payment shall be made under this item unless temporary pavement restoration is ordered or directed by Owner or Engineer.

3.6 FURNISH AND INSTALL PRESSURE REDUCING VALVE (PRV) – BEHIND WATER METER (BID ITEM NO. 24)

- A. Measurement
 - 1. Unit of measurement for furnishing and installing pressure reducing valve (PRV) – behind water meter shall be for each PRV installed. Measurement shall include all labor, materials and equipment required to locate and install the PRV and all related appurtenances; and to reconnect water service. Proposed PRVs will be provided by Albemarle County Service Authority for Contractor to install. Restoration of asphalt pavement surfaces in public roads is not included.
- B. Payment
 - 1. Payment for the furnishing and installing pressure reducing valve (PRV) – behind water meter shall be at the contract unit price per each installed. Payment and price shall constitute full compensation for all labor, materials, excavation (including rock), dewatering, bedding, suitable backfill, surface restoration (including restoration of asphalt driveways, concrete sidewalks, concrete curbs and gutters, and concrete v-ditch), tools and equipment required to locate and install the PRV, and incidentals necessary to reconnect the water service and complete the work as indicated on the Contract Documents. Unless otherwise indicated, excavation shall be made in accordance with the details as provided in the Contract Documents.

END OF SECTION

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BID Summary
Abemarle County Service Authority
Briarwood WMR Project (2021-01)
March 18, 2025

Contract Items				Bid 1	Bid 2
Item	Description	Qty.	Units	Unit Cost	Unit Cost
Base Bid Items					
1	Mobilization	1	EA	\$ 175,000.00	\$ 134,600.00
2	4-Inch Ductile Iron Water Main	288	LF	\$ 194.00	\$ 300.00
3	4-Inch Gate Valves w/ Boxes	2	EA	\$ 2,787.00	\$ 2,394.32
4	6-Inch Ductile Iron Water Main	2,166	LF	\$ 171.00	\$ 325.00
5	6-Inch Gate Valves w/ Boxes	3	EA	\$ 5,007.00	\$ 2,663.88
6	8-Inch Ductile Iron Water Main	3,446	LF	\$ 188.00	\$ 400.00
7	8-Inch Gate Valves w/ Boxes	23	EA	\$ 4,950.00	\$ 4,580.58
8	8-Inch Tapping Sleeve and Valve	2	EA	\$ 9,200.00	\$ 10,620.04
9	1-Inch Copper Water Service Line	3,458	LF	\$ 50.00	\$ 136.14
10	Water Service Connection - Not In Pavement	209	EA	\$ 3,167.00	\$ 1,408.76
11	Fire Hydrant Removal and Valve Abandonment	2	EA	\$ 1,500.00	\$ 4,260.36
12	Fire Hydrant Assembly	9	EA	\$ 8,055.00	\$ 13,964.12
13	Blow-Off Assembly	2	EA	\$ 3,146.00	\$ 10,392.86
14	Air Release Valve Assembly	1	EA	\$ 3,363.00	\$ 10,993.65
15	Flowable Fill	75	CY	\$ 750.00	\$ 768.20
16	Asphalt Pavement Restoration, Asphalt Intermediate Course IM-19.0	1,450	TON	\$ 125.00	\$ 239.15
17	Asphalt Pavement Restoration, Full-Width Pavement Overlay SM-9.5A	18,200	SY	\$ 35.00	\$ 18.73
18	Manhole Frame and Cover Replacement - In Pavement	7	EA	\$ 1,500.00	\$ 2,224.74
19	Traffic Control	1	LS	\$ 160,000.00	\$ 298,348.55
Contingent Bid Items					
Item	Description	Qty.	Units	Unit Cost	Unit Cost
20	Additional Excavation Below Specified Subgrade	200	CY	\$ 25.00	\$ 45.00
21	Test Pits Ordered by Engineer	5	EA	\$ 1,500.00	\$ 500.00
22	Select Fill - Aggregate Stone	200	CY	\$ 75.00	\$ 60.00
23	Select Fill - Suitable Earth	100	CY	\$ 50.00	\$ 50.00
24	Temporary Pavement Restoration	100	SY	\$ 50.00	\$ 50.00
25	PRV Replacement - Behind water meter	15	EA	\$ 1,000.00	\$ 1,500.00

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