

SURVEY LEGEND:

	BENCHMARK
	CONCRETE
	CLEANOUT
	ENTRANCE
	FIBER OPTIC MANHOLE
	FIBER OPTIC HANDHOLE
	FIRE HYDRANT
	GAS VALVE
	GUY POLE
	GUY WIRE
	LIGHT POLE
	PIPE STUB
	POWER POLE
	SANITARY SEWER MANHOLE
	SIGN
	STORM DRAIN MANHOLE
	TRAFFIC CONTROL CABINET
	TRAFFIC LIGHT POLE
	TRAFFIC HANDHOLE
	TRAFFIC MANHOLE
	TREE
	WATER MANHOLE
	WATER METER
	GAS MAIN OR SERVICE LINE
	OVERHEAD COMMUNICATION LINE
	OVERHEAD ELECTRIC LINE
	OVERHEAD ELECTRIC/COMMUNICATION LINE
	SANITARY SEWER LINE
	STORM DRAIN LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND TELEPHONE LINE
	WATER MAIN OR SERVICE LINE
	PROPOSED WATER LINE
	PROPOSED VALVE
	PROPOSED WATER METER
	PROPOSED FIRE HYDRANT
	PROPOSED AIR RELEASE OR BLOW OFF VALVE

UTILITY OWNERS:

TICKET: A609101190 REV: 00A TAKEN: 03/31/16 01:34 PM

STATE: VA CNTY: ROANOKE CITY PLACE:
ADDRESS: ELM AVE SW
RESPONSES DUE BY: 04/22/16 07:00 AM

MARKING CODE	DESCRIPTION	RESPONSE
AEP	APPALACHIAN POWER (AEP111) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: USIC LOCATING SERVICE (800) 778-9140 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (800) 956-4237	04/15/16 05:12 PM 30
CMC	COMCAST (CMC250) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: S & N (804) 608-5640 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (800) 441-6917 EXT OPT 1	04/21/16 04:25 PM 30
COX	COX COMMUNICATIONS (COX268) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: LISA OLSEN (757) 951-7211 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (540) 915-2603	04/21/16 04:25 PM 30
LTC	LEVEL 3 COMMUNICATIONS (LTC903) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: CALL CENTER (877) 366-8344 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (877) 366-8344	03/31/16 03:48 PM 30
RGC	ROANOKE GAS (RGC162) MARKED FIELD CONTACT: S & N (804) 608-5640 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (540) 777-4427	04/21/16 04:25 PM 10
ROA	ROANOKE CITY-SIGNAL (ROA853) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: BOB SWAIN (540) 853-2691 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (540) 537-8496	03/31/16 01:45 PM 30
RVB	ROANOKE BROADBAND (ROA904) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: YVONNE DOOLITTLE (540) 853-2116 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (540) 853-2792	04/21/16 03:57 PM 30
VZN	VERIZON (VZN804) NO CONFLICT; UTILITY IS OUTSIDE OF STATED WORK AREA. FIELD CONTACT: UTILIQUEST (703) 754-2116 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (888) 483-1233	04/12/16 08:15 PM 30
WVW	WESTERN VA - WATER & SEWER (WVW853) MARKING UP TO PRIVATELY OWNED UTILITY; CONTACT PRIVATE UTILITY OWNER FOR LOCATION FIELD CONTACT: YVONNE DOOLITTLE (540) 853-2596 IN THE EVENT OF DAMAGE TO A FACILITY CALL: (540) 853-2792	04/21/16 03:57 PM 12

D1	Catch Basin Top of Grate = 989.56' Inv. In = 988.57' Inv. Out 10" Steel = 988.15'	D7	Curb Inlet Top Rim = 963.32' Inv. Out 15" RCP = 959.12'	W1	Water Manhole Top Rim = 988.75' Top of Nut = 987.33'
D2	Curb Inlet (Filled with Debris) Top of Rim = 986.92' Bottom of Box = 985.22'	D8	Curb Inlet Top Rim = 961.58' Inv. In 24" RCP = 954.94' Inv. Out 24" RCP = 954.71'	W2	Water Manhole Top Rim = 990.66' Top of Nut = 988.71'
D3	Curb Inlet Top of Rim = 970.27' Flow of 48" Pipe = 963.82'	D9	Storm Sewer Manhole Top Rim = 959.92' Inv. In 18" RCP = 954.32' (From D8) Inv. In 20" RCP = 951.58' Inv. Out 20" RCP = 951.18'	W3	Water Manhole Top Rim = 990.80' Top of Nut = 988.78'
D4	Catch Basin Top of Grate = 970.44' Bottom of Box = 963.94'	D10	Curb Inlet Top of Grate = 956.41' Inv. In 24" RCP = 949.00' (From D9) Inv. In 24" RCP = 947.51' Inv. Out 24" RCP = 947.43'	W4	Water Manhole Top Rim = 989.74' Top of Nut = 988.68'
D5	Curb Inlet Top of Rim = 965.96' Inv. In 8" CMP = 959.71' Inv. In 15" CMP = 959.69' Inv. Out 24" RCP = 958.96'	D11	Curb Inlet Top Rim = 962.78' Inv. In 15" RCP = 956.43' Inv. Out 15" RCP = 956.28'	W5	Water Manhole Top Rim = 991.00' Top of Nut = 989.62'
D6	Curb Inlet Top of Rim = 965.60' Inv. In 24" RCP = 958.66' Inv. Out 24" RCP = 958.59'	D12	Curb Inlet Top Rim = 964.58' Inv. In 15" RCP = 959.83' Inv. In 24" RCP = 957.91' Inv. Out 24" RCP = 957.58'	W6	Water Manhole Top Rim = 991.38' Top of Nut = 989.71'
		D13	Catch Basin Top Grate = 958.69' Inv. Out 15" RCP = 964.19'	W7	Water Manhole Top Rim = 991.07' Top of Nut = 990.84'
				W8	Water Manhole Top Rim = 964.21' Top of Nut = 961.34'

Project : 3600A - Elm Avenue Waterline Phase 2
Client : Western Virginia Water Authority
Horizontal Datum Based On NAD83(2011)
Vertical Datum Based On NAVD88
Survey By : T. W. Caldwell
Drawn By : J. A. Dethlefsen
Check By : T. W. Caldwell
Date : 5 - 12 - 16
Scale : 1" = 20'

SURVEY NOTES:

- THIS LOCATION SURVEY OF ELM AVENUE WATER MAIN REPLACEMENT (PHASE II) WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF TIMOTHY W. CALDWELL, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON APRIL 28 - MAY 3, 2016; AND THAT THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
- HORIZONTAL (NAD 83/2011) AND VERTICAL (NAVD88) CONTROL WAS ESTABLISHED BY STATIC GPS SURVEY COMPLETED ON APRIL 27, 2016 BY TIMOTHY W. CALDWELL, L.S. USING NATIONAL GEODETTIC SURVEY CORRS MONUMENT "LS04".
- CONTOURS SHOWN HEREON ARE AT 1 FOOT INTERVALS.
- UNDERGROUND UTILITIES LOCATIONS BASED ON DESIGNATION BY MISS UTILITY TICKET A609101190 REV: 00A TAKEN 03/31/16 01:34 PM.

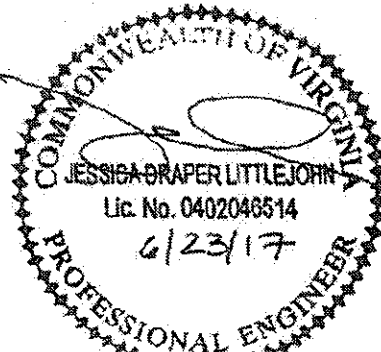
SURVEY CONTROL

PT #1: N: 3623858.1852 E: 11062030.7550 ELEV: 962.984'
BEARING: N 76° 59' 25" W HDIST: 583.18'
PT #6: N: 3623989.4687 E: 11061462.5449 ELEV: 990.568'
BEARING: S 86° 36' 19" W HDIST: 297.58'
PT #7: N: 3623971.8479 E: 11061165.4872 ELEV: 997.966'
BEARING: N 76° 05' 13" W HDIST: 416.57'
PT #8: N: 3624072.0113 E: 11060761.1401 ELEV: 992.885'

BENCHMARKS:

BENCHMARK #1
CHISELED SQUARE ON S. E. CORNER OF CONCRETE PAD FOR SIGNAL CABINET AT THE INTERSECTION OF ELM AVE SW. AND FRANKLIN RD. SW.
ELEV. = 965.54'

BENCHMARK #3
CHISELED SQUARE ON N. W. CORNER OF WATER VAULT LOCATED ON N.W. SIDE OF THE INTERSECTION OF ELM AVE. SW AND 5TH ST. SW.
ELEVATION = 987.31'



ELM AVENUE WATER MAIN REPLACEMENT - PHASE 2
WESTERN VIRGINIA WATER AUTHORITY

PROJECT NOTES 3

DOCUMENT NO.
32125-006
SHEET
1D OF 6



ANDERSON & ASSOCIATES, INC.
Professional Design Services
www.andassoc.com
100 Ardmore St.
Blacksburg, Va. 24060
540-852-6592

DATE : 01 JUN 16
DESIGNED: BJM
DRAWN : BJM
CHECKED: DAA
QA/QC : RSB

REV. #

COMMENTS

DATE

McNaney, Brian / 6/26/2017 3:17 PM / \\caprojects\projects\32\32125-engineering\design\plans\32125_elm_ave_phase_2_waterline_sheets.dwg