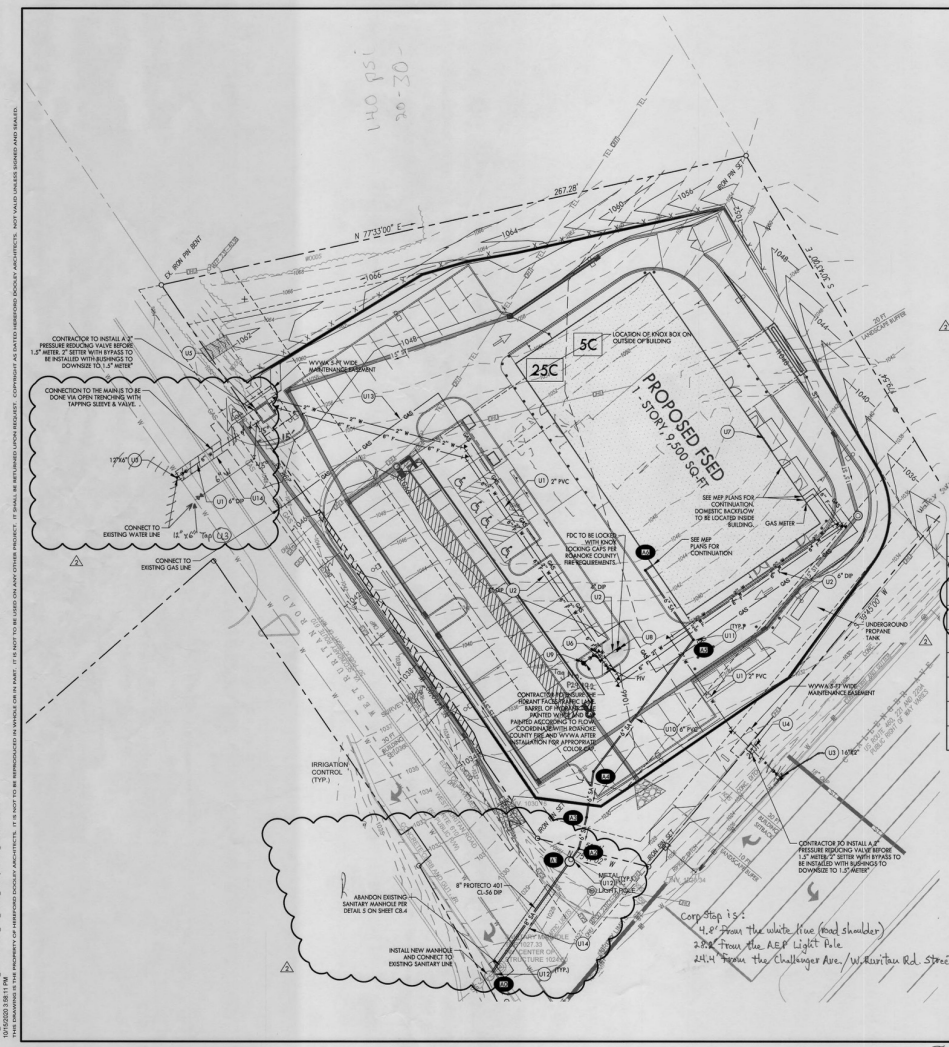

UTILITY PLAN KEYNOTES

CODE	DESCRIPTION	DETAIL LOCATION
U1	WATER LINE - SEE PLAN FOR SIZE	-
U2	FIRE LINE - SEE PLAN FOR SIZE	-
U3	TAPPING SLEEVE & VALVE (W-21)	C8.5-5
U4	COMMERCIAL WATER METER VAULT (W-5)	C8.3-4
U5	COMMERCIAL FIRE/METER VAULT (W-7)	C8.5-7
U6	FIRE VALVE VAULT - PRIVATE HYDRANT (W-8)	C8.5-6
U7	DECONTAMINATION TANK	-
U8	FIRE DEPARTMENT CONNECTION	-
U9	FIRE HYDRANT ASSEMBLY (W-17)	C8.1-4
U10	SANITARY SEWER LATERAL (S-6)	C8.5-4
U11	CLEANOUT	C8.1-2
U12	SANITARY MANHOLE (S-1)	C8.3-5
U13	GAS LINE	-
U14	VDOT OPEN CUT INSTALLATIONS	C8.5-8
U15	CONCRETE PIER FOR CROSSING PIPES	C8.4-8

NOTES:
1. REFER TO SHEET C3.0 FOR NOTES.
2. REFER TO SHEET C8.5 DETAILS 1 & 3 FOR INSTALLATION OF TRACER WIRE ON WATER LINES.
3. THE FIRE FLOW REQUIRED FOR THE PROJECT IS 500 GPM AT 20 PSI. BASED ON WVWA FLOW TEST DATA THE PROVIDED 500 GPM WILL BE PROVIDED AT A PRESSURE OF 80 PSI.

PROPOSED UTILITY LEGEND

—(S)— SS —	SANITARY SEWER LINE
— W —	WATER LINE
— GAS —	GAS LINE
— ELEC —	UNDERGROUND ELECTRIC LINE
— UGT —	UNDERGROUND TELEPHONE LINE
(A1)	SEWER STRUCTURE LABEL

Tag No. P29192 American Darling B84B-5 5 1/4" 2021

- Use 1 1/2" meter body from Mundell

H_2O pressure - W. Ruritan - 122 psi
H_2O pressure - Rt. 460 - 130 psi

SANITARY SEWER STRUCTURE TABLE

ID	RIM	INVERT	TYPE
A0	1027.78	1024.68	MANHOLE
A1	1029.33	1025.62	MANHOLE
A2	1029.54	1026.14	CLEANOUT
A3	1030.32	1026.87	CLEANOUT
A4	1045.60	1027.98	CLEANOUT
A5	1046.84	1034.98	CLEANOUT
A6	1047.82	1044.80	CLEANOUT

SANITARY SEWER PIPE TABLE

INLET	INVERT	OUTLET	INVERT	LENGTH (FT)	SLOPE (%)	DIAMETER (IN)	MATERIAL
A2	1026.14	A1	1025.74	7	5.74%	6	PVC Pipe
A3	1026.87	A2	1026.14	14	5.07%	6	PVC Pipe
A1	1025.64	A0	1024.70	62	1.51%	8	PROTECTO-401 CL-56 D.I.P.
A4	1028.00	A3	1026.87	21	5.49%	6	PVC Pipe
A5	1035.00	A4	1028.00	74	9.51%	6	PVC Pipe
A6	1044.80	A5	1035.00	38	26.01%	6	PVC Pipe
BLDG	1045.00	A6	1044.80	4	5.12%	6	PVC Pipe

Material Info.:

Water: Pipe = 6" U.S. Pipe DIP, CL 350
Valve = 6" American Flow Control
CCW To Open, 21 Turns
Service Line: 2" ADS PolyPlex HDPE SDR-9

Sewer: Pipe = 8" U.S. Pipe DIP, Protecto 401 Epoxy-coated
MHs = C.T. Jamison pre-cast concrete
F&C = U.S. Foundry watertight
Lateral Pipe = 6" Saunderson PVC SDR-26

GRAPHIC SCALE 0 10 20 40

CRUNK ENGINEERING LLC
1894 GENERAL GEORGE PATTON DR.
SUITE A00
FRANKLIN, TN 37067
(615) 873-1795
WWW.CRUNKENG.COM

CRUNK ENGINEERING

Inspector As-Built K. Winslow 1.13.22

HEREFORD · DOOLEY
ARCHITECTS
205 17TH AVE NORTH · SUITE 203
NASHVILLE · TENNESSEE · 37203
P · 615 · 244 · 7399
F · 615 · 244 · 6697
WWW.HDARCHITECTS.COM

PROJECT # 220014.00
CLIENT PROJECT # 3463000022

BLUE HILLS FSER
1423 WEST RURITAN ROAD
ROANOKE, VIRGINIA 24012
LEWIS-GALE MEDICAL CENTER
1509 ELECTRIC ROAD, SALEM, VIRGINIA, 24153

STATUS: CONSTRUCTION DOCUMENTS

COMMONWEALTH OF VIRGINIA
ADAM W. CRUNK
Lic. No. 0402054058
10/27/20
PROFESSIONAL ENGINEER

DATES OF ISSUANCE
11/06/2020
1 REV 1_07-30-2021
2 REV 2_10-29-2021

TITLE: UTILITY PLAN

SHEET: C7.0

C:\Revit Local\220014_Blue Hills FSER_R20_Central_wtrtrey.rvt
10/10/2023 3:58:11 PM
THIS DRAWING IS THE PROPERTY OF HEREFORD DOOLEY ARCHITECTS. IT IS NOT TO BE REPRODUCED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT. IT SHALL BE RETURNED UPON REQUEST. COPYRIGHT © HEREFORD DOOLEY ARCHITECTS. NOT VALID UNLESS SIGNED AND SEALED