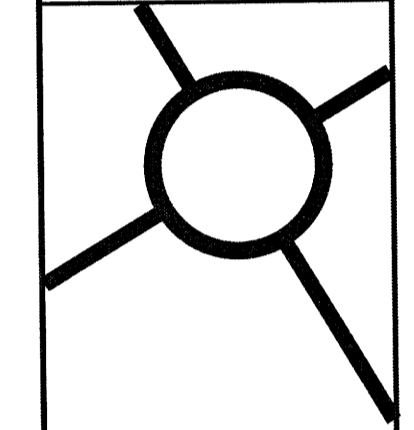


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**MEMBER ONE FEDERAL  
CREDIT UNION  
FIELD REVISION #1**  
202 4TH STREET, N.E.  
CITY OF ROANOKE, VIRGINIA

REVISIONS

1ST REVIEW COMMENTS:	JANUARY 28, 2021.
2ND REVIEW COMMENTS:	FEBRUARY 26, 2021.
FIELD REVISION #1:	JULY 06, 2021.

DESIGNED BY: PDG  
DRAWN BY: CEP / JMD  
CHECKED BY: JDE  
SCALE: 1" = 40'  
DATE: NOVEMBER 09, 2020  
PROJECT NUMBER: 19-0135  
SHEET TITLE:

**PHASE I & II  
UTILITY PLAN**

**C08**

PROP STORM PH I STRUCTURE TABLE			
STRUCTURE NAME	DETAILS	PIPES IN	PIPES OUT
D-5	EX. MANHOLE RM = 925.57 SUMP = 922.0 INV IN = 921.97 INV OUT = 921.97	6-7, 15" RCP INV IN = 921.97	7-8, 15" RCP INV OUT = 921.97 8" INV IN(ROOF) = 928.50
1	VDOT STD. DI-38 (L=10') RM = 930.84 SUMP = 928.5 INV IN = 928.50 INV OUT = 928.50		1-2, 18" HDPE INV OUT = 928.50
2	VDOT STD. DI-30 (L=6') RM = 930.98 SUMP = 928.9 INV IN = 928.94 INV OUT = 928.94	1-2, 18" HDPE INV IN = 927.04	2-3, 18" HDPE INV OUT = 928.94
3	VDOT STD. DI-30 (L=6') RM = 930.30 SUMP = 925.3 INV IN = 925.40 INV OUT = 925.27	2-3, 18" HDPE INV IN = 925.40	3-4, 24" HDPE INV OUT = 925.27
4	VDOT STD. MH-2 RM = 931.10 SUMP = 924.4 INV IN = 924.47 INV OUT = 924.37	3-4, 24" HDPE INV IN = 924.47	4-5, 24" HDPE INV OUT = 924.37
5	VDOT STD. DI-30 (L=6') RM = 930.05 SUMP = 923.9 INV IN = 924.00 INV OUT = 923.90	4-5, 24" HDPE INV IN = 924.00 5A-5, 18" HDPE INV IN = 924.80	5-6, 24" HDPE INV OUT = 923.90
5A	VDOT STD. DI-30 (L=12') RM = 930.28 SUMP = 926.2 INV OUT = 926.21		5A-5, 18" HDPE INV OUT = 926.21
6	VDOT STD. MH-2 RM = 929.74 SUMP = 922.3 INV IN = 923.84 INV IN = 922.30 INV OUT = 922.30	5-6, 24" HDPE INV IN = 923.84 Pipe - (27), 15" RCP INV IN = 922.30	6-7, 15" RCP INV OUT = 922.30
8	45' ELBOW RM = 922.54 SUMP = 921.0 INV IN = 921.00 INV OUT = 921.00	7-8, 15" RCP INV IN = 921.00	8-9, 15" RCP INV OUT = 921.00
9	EX. STRUCTURE NOT SHOT ELEVATIONS PER GIS DATA RM = 920.15 SUMP = 913.2 INV IN = 913.31 INV OUT = 913.21	8-9, 15" RCP INV IN = 913.31	9-10, 15" RCP INV OUT = 913.21
10	EX. STRUCTURE NOT SHOT ELEVATIONS PER GIS DATA RM = 920.13 SUMP = 912.7 INV IN = 912.67	9-10, 15" RCP INV IN = 912.67	

PROP SSWR STRUCTURE TABLE			
STRUCTURE NAME	DETAILS	PIPES IN	PIPES OUT
A	WWA STD. S-6 CLEANOUT SANITARY SEWER LATERAL RM = 934.00 SUMP = 930.0 INV OUT = 930.00		A-B, 6" PVC INV OUT = 930.00
B	WWA STD. S-6 CLEANOUT SANITARY SEWER LATERAL RM = 931.52 SUMP = 926.7 INV IN = 926.66 INV OUT = 926.66	A-B, 6" PVC INV IN = 926.66	B-C, 6" PVC INV OUT = 926.66
C	WWA STD. S-6 CLEANOUT SANITARY SEWER LATERAL RM = 931.79 SUMP = 925.7 INV IN = 925.66 INV OUT = 925.66	B-C, 6" PVC INV IN = 925.66	C-D, 6" PVC INV OUT = 925.66
D	WWA STD. S-6 CLEANOUT RM = 929.71 SUMP = 921.9 INV IN = 921.86 INV OUT = 921.86	C-D, 6" PVC INV IN = 921.86	D-S3, 6" PVC INV OUT = 921.86
S-3	EXISTING SSWR MANHOLE RM = 929.28 SUMP = 919.5 INV IN = 921.38	D-S3, 6" PVC INV IN = 921.38	

**FIELD REVISION #1**

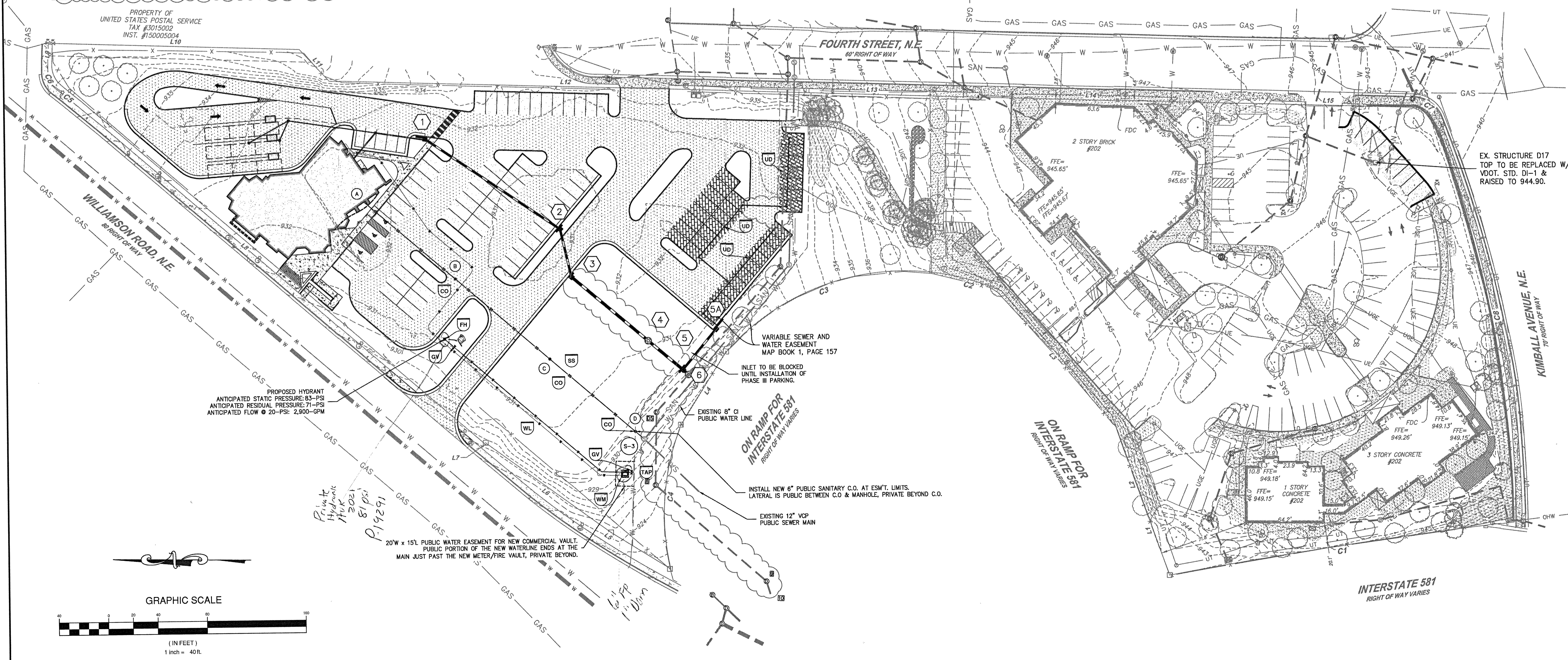
- UPDATED STORM RUN FROM STRUCTURE 3 TO STRUCTURE 10.
- CONTRACTOR TO VERIFY WITH ENGINEER CONNECTION TO STRUCTURE 'EX' IN PHASE IV OF CONSTRUCTION.
- UPDATED STRUCTURE TABLE ABOVE.
- UPDATED UNDERDRAIN CONNECTIONS.

**PHASING NOTES:**

- PHASE I INCLUDES THE NEW PARKING AREA AND PROPOSED BUILDING TO THE NORTH OF THE SITE. ALL UTILITIES SERVING THE PROPOSED BUILDING HAVE BEEN SHOWN BELOW.
- PHASE I ALSO INCLUDES THE REMOVAL OF THE DRIVE-THROUGH ATM ON THE SOUTHERN PORTION OF THE SITE AND ADDITION OF PARKING TO REPLACE THE ATM.
- PHASE II IS INTERNAL RENOVATIONS TO THE EXISTING 1 STORY CONCRETE BUILDING.
- ALL UTILITY WORK FOR THE PHASE II BUILDING RENOVATION IS ASSUMED TO BE FROM EXISTING INTERNAL CONNECTIONS. CONTRACTOR TO VERIFY AND PLANS UPDATED TO ACCOMMODATE CHANGES IF NECESSARY.
- PHASE II DOES NOT REMOVE OR ADD ANY ADDITIONAL PARKING.
- ANY EXISTING WATER OR SEWER CONNECTIONS SERVING THIS PROPERTY NOT UTILIZED FOR THIS DEVELOPMENT SHALL BE ABANDONED AT THE MAIN BY THE DEVELOPER.
- DOMESTIC SERVICE IN AND OUT OF THE VAULT NEEDS TO BE 2" WITH 2" SETTER PER WWA STANDARD. VAULT TO CONTAIN 1' METER, ONCE THE SERVICE LINE EXITS THE VAULT, IT CAN BE REDUCED DOWN TO A 1.5". CONTRACTOR TO VERIFY WITH SHOP DRAWINGS PRIOR TO INSTALLATION.

**FIRE FLOW REQUIREMENTS :**

- FINANCIAL INSTITUTIONS FALL UNDER USE GROUP B UNDER INTERNATIONAL BUILDING CODES.
- USE GROUP B UP TO TWO STORIES REQUIRES A FIRE FLOW OF 2,000-GPM.
- FIRE FLOW TEST CONDUCTED ON 01/22/2021 CALCULATED AT 20-PSI WAS DETERMINED TO BE 2,991-GPM. (STATIC PRESSURE = 83-PSI & RESIDUAL PRESSURE = 71-PSI).
- FIRE FLOW TEST RESULTS HAVE BEEN PROVIDED ON SHEET C18.



**SITE UTILITIES LEGEND**

- PROPOSED SANITARY SEWER CLEANOUT (TRAFFIC BEARING IN PAVEMENT).
- PROPOSED SANITARY SEWER LATERAL (6" PVC SDR-35 PRIVATE BEYOND CLEANOUT).
- PROPOSED WATERLINE (PRIVATE 6" DUCTILE IRON FIRE LINE & 1.5" TYPE K COPPER DOMESTIC WATER SERVICE).
- WATERLINE WET TAP.
- WATERLINE TEE.
- GATE VALVE.
- PRIVATE FIRE HYDRANT ASSEMBLY.
- WWA STANDARD W-7 COMMERCIAL METER VAULT. 1-IN. METER REQUIRED PER METER SIZING CALCS.
- UNDERGROUND ELECTRIC.
- 4" PERFORATED PVC UNDERDRAIN AT MINIMUM SLOPE & COVER.