

ARCH 11 8 1/2" x 11 1/2"

AECOM

PROJECT
VIRGINIA TECH CARILION (VTC)
BIOMEDICAL RESEARCH
EXPANSION

VIRGINIA TECH
4 RIVERSIDE CIRCLE
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CLIENT

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HILL STUDIO

REGISTRATION
Professional Engineer
No. 0001
09/17/18

ISSUE/REVISION		
10	09/24/2018	SI-16 CP-18-0003 FRMS (PCE)
9	08/17/2018	RF-17 (GENERATOR PAD)
8	08/02/2018	SI-14 CP-18-0003 FRMS
7	05/04/2018	SI-10 CP-18-0003 FRMS
6	03/27/2018	SI-08 EMM LOCATIONS
5	03/14/2018	SI-07 WORKING DRAWINGS
4	03/08/2018	CITY CP SUBMISSION
3	12/01/2017	FOUNDATION SUBMISSION
2		
1		

KEY PLAN

PROJECT NUMBER
80544803
SHEET TITLE
UTILITY PLAN

SHEET NUMBER
C-103

- GENERAL NOTES THIS SHEET:**
- SEE SHEET C-003 FOR ABBREVIATIONS AND C-001 FOR CIVIL NOTES AND LEGEND.
 - RESTRAINED JOINTS ARE REQUIRED FOR ALL PRESSURE PIPING. SEE SHEET C-002 FOR ADDITIONAL RESTRAINT REQUIREMENTS.
 - ELECTRICAL AND TELECOMMUNICATIONS UTILITIES ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL SHEETS FOR DESIGN OF THESE SYSTEMS.
 - SET UTILITY STRUCTURE TOPS FLUSH WITH FINISH GRADE WHEN IN PAVEMENT OR WALKS. ADJUST EXISTING STRUCTURE TOPS AS REQUIRED TO MATCH FINISH GRADE.
 - PROVIDE HS-20 TRAFFIC-RATED STRUCTURES WHEN IN, OR ADJACENT TO, PAVEMENT AND VEHICULAR AREAS.
 - ALL WATER LINE MATERIAL IS DUCTILE IRON, CONFORMING TO WWHA DESIGN AND CONSTRUCTION STANDARDS.
 - ALL SANITARY SEWER PIPE MATERIAL IS PVC (ASTM D3034 SDR 26), CONFORMING TO WWHA DESIGN AND CONSTRUCTION STANDARDS.
 - REINFORCED CONCRETE PIPE (RCP) IS CLASS 3, UNLESS NOTED OTHERWISE.
- SHEET KEYNOTES:**
- ELECTRICAL RISER.
 - DUCTILE IRON WATER LINE TO VAULT.
 - PROVIDE TEMPORARY SUPPORT OF EXISTING GAS LINE DURING FOUNDATION WORK. RELOCATE GAS LINE BY OTHERS, IF NECESSARY. COORDINATE WORK WITH ROANOKE GAS.
 - 24" RCP STORM DRAIN.
 - 8" PVC ROOF DRAIN.
 - INLINE BLOW-OFF ASSEMBLY (TYPICAL OF 2). SEE SHEET C-002 FOR DETAIL.
 - DUCTILE IRON DOMESTIC WATER LINE.
 - FIRE DEPARTMENT CONNECTION. SEE SHEET C-001 FOR DETAIL.
 - POST-INDICATOR VALVE. SEE SHEET C-001 FOR DETAIL.
 - PROTECT WATER MAIN DURING FOUNDATION WORK. RELOCATE 12" WATER MAIN AS SHOWN ON SHEET C-003.1A. COORDINATE WORK WITH WESTERN VIRGINIA WATER AUTHORITY.
 - GAS VALVE AND SERVICE (BY OTHERS). COORDINATE WORK WITH ROANOKE GAS.
 - COMMERCIAL WATER VAULT. SEE SHEET C-002 FOR DETAIL.
 - 6" PVC SANITARY SEWER.
 - TELECOMMUNICATIONS DUCTBANK. SEE SHEETS ES101 AND ES501.
 - 10" PVC STORM DRAIN FROM BUILDING.
 - 12" PVC STORM DRAIN FROM BUILDING.
 - 8" FIRE HYDRANT ASSEMBLY. SEE SHEET C-002 FOR DETAIL.
 - CONNECT TO EXISTING.
 - 12" x 8" TAPPING SLEEVE AND VALVE. SEE SHEET C-002 FOR DETAIL.
 - CONNECTION TO EXISTING (BY OTHERS).
 - SEE PLUMBING FOR CONTINUATION.
 - POLES SET FOR POWER DROP (BY OTHERS).
 - POWER DUCTBANK A. SEE SHEET ES501 FOR DETAIL.
 - POWER DUCTBANK B. SEE SHEET ES501 FOR DETAIL.
 - POWER DUCTBANK C. SEE SHEET ES501 FOR DETAIL.
 - POWER DUCTBANK D. SEE SHEET ES501 FOR DETAIL.
 - POWER DUCTBANK E. SEE SHEET ES501 FOR DETAIL.
 - PROPERTY LINE (TYPICAL).
 - ELECTRICAL MANHOLE. SEE SHEET ES502 FOR DETAIL.
 - SEE ELECTRICAL FOR CONTINUATION.
 - 6" DUCTILE IRON FIRE WATER LINE.
 - WATER GATE VALVE. SEE SHEET C-003 FOR DETAIL.
 - CAST-IN-PLACE TELECOMMUNICATIONS MANHOLE. SEE SHEET ES502 FOR DETAIL.
 - RE-ROUTE EXISTING TELECOMMUNICATIONS UTILITY. SEE SHEET ES101 FOR ADDITIONAL REQUIREMENTS.
 - ABANDON-IN-PLACE AND CAP EXISTING TELECOMMUNICATIONS UTILITY. SEE SHEET ES101 FOR ADDITIONAL REQUIREMENTS.
 - VERIFY EXISTING 12" WATER MAIN ELEVATIONS AND RELOCATE VERTICALLY IF REQUIRED. PROVIDE 18" MINIMUM CLEARANCE BETWEEN RELOCATED WATER AND OTHER UTILITIES.
 - 4" PVC ACID NEUTRALIZATION LINE.
 - SANITARY SEWER MANHOLE (SEE SHEET C-002 FOR DETAIL. PROVIDE BOLT-DOWN MANHOLE COVER (SEE SHEET C-003 FOR DETAIL).
 - 3" STORM DRAIN TO CLEANOUT. PROVIDE 6" PVC STORM DRAIN FROM CLEANOUT RISER TO BRANCH WYE AT STREET, WITH 2% MINIMUM PIPE SLOPE AND 3" MINIMUM COVER.
 - RELOCATE EXISTING 1-1/4" WATER SERVICE AS REQUIRED TO ACCOMMODATE NEW TELECOMMUNICATIONS AND STORM DRAINAGE UTILITIES.
 - ABUT "EMH 3" AGAINST "EMH 2" WITH 1" RIGID INSULATION BETWEEN.
 - 30"x18" HORIZONTAL ELLIPTICAL RCP.

20' 10' 0' 20' 40'

Contractor's As-Builts
Virginia Tech Carilion (VTC)
Biomedical Research Expansion
As-Builts 8.8.19

RIVERSIDE 3
CARILION CLINIC
Inspector: K. Winslow

