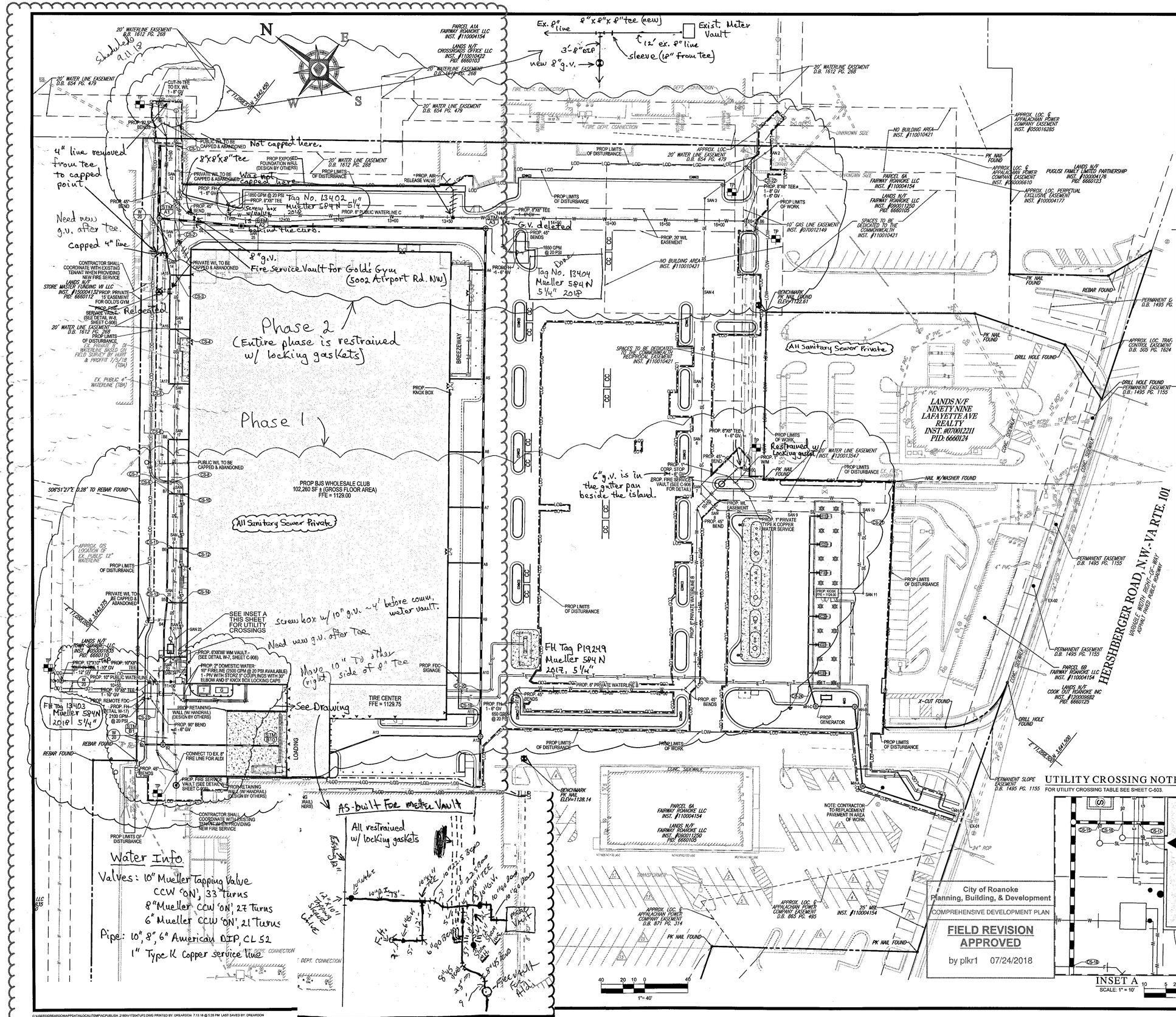

UTILITY LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
SAN #	SANITARY LABEL	SAN #
STM #	STORM LABEL	STM #
SL	SANITARY SEWER LATERAL	SL
W	UNDERGROUND WATER LINE	W
E	UNDERGROUND ELECTRIC LINE	E
G	UNDERGROUND GAS LINE	G
OH	OVERHEAD WIRE	OH
T	UNDERGROUND TELEPHONE LINE	T
C	UNDERGROUND CABLE LINE	C
	STORM SEWER	
S	SANITARY SEWER MAIN	S
	HYDRANT	
S	SANITARY MANHOLE	S
D	STORM MANHOLE	D
WM	WATER METER	
WV	WATER VALVE	
	GAS VALVE	
	GAS METER	
	TYPICAL END SECTION	
	HEADWALL OR ENDWALL	
	YARD INLET	
	CURB INLET	
	CLEAN OUT	
E	ELECTRIC MANHOLE	E
T	TELEPHONE MANHOLE	T
EB	ELECTRIC BOX	EB
EP	ELECTRIC PEDESTAL	EP
	MONITORING WELL	
	TEST PIT	

UTILITY NOTES:

1. FIRE HYDRANTS SHALL BE COLOR CODED TO MATCH FLOWS PER FIRE MARSHAL OFFICE CRITERIA.
2. 7+\ (35232&(\ /1 $&+$\/(&$9(□□&72 5=&2&83/,1* 6□ ,7+ '$□□□□/ %2: □$1' □□□ LOCKING STORZ CAPS.
3. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST WVWA DESIGN AND CONSTRUCTION STANDARDS.
4. THE CONTRACTOR OR DEVELOPER IS REQUIRED TO NOTIFY THE WESTERN VIRGINIA WATER AUTHORITY IN WRITING AT LEAST THREE (3) DAYS PRIOR TO ANY CONSTRUCTION. PLEASE CONTACT MARK SINK AT (540) 537-3460.
5. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE WESTERN VIRGINIA WATER AUTHORITY.
6. FIELD CORRECTIONS SHALL BE APPROVED BY THE WESTERN VIRGINIA WATER AUTHORITY PRIOR TO SUCH CONSTRUCTION.
7. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" CLEARANCE VERTICALLY AND 2' MINIMUM HORIZONTALLY FROM OUTSIDE OF PIPE TO OUTESIDE OF PIPE AT ALL WATER, SANITARY SEWER CROSSINGS OF ANY OTHER UTILITIES. WHERE THIS CANNOT BE ACHIEVED, ADDITIONAL MEASURES IN ACCORDANCE WITH WVWA STANDARDS SHALL BE ENFORCED.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EXISTING UTILITIES LOCATED AND POTHOLED TO VERIFY LOCATIONS AT ALL PROPOSED CROSSINGS. THIS PLAN REVIEW DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ANY EXISTING CONFLICTS FOUND DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY BOHLER ENGINEERING IMMEDIATELY IN WRITING WITH ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED UTILITIES.
9. ALL UTILITY LATERALS MUST BE LOCATED UNDERGROUND. THIS INCLUDES FEEDS TO ANY POLE-MOUNTED LIGHTS.
10. FIRE FLOWS SHOWN WERE PROVIDED BY WESTERN VIRGINIA WATER AUTHORITY.

ADDITIONAL WVWA NOTES:

1. ALL SANITARY SEWER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATION WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.
2. ALL WATER AND SANITARY SEWER FACILITIES ARE TO BE INSTALLED ACCORDING TO THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.
3. ALL WATER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.
4. A MINIMUM OF FIVE (5) DAYS NOTICE MUST BE PROVIDED TO WVWA FOR ANY ANTICIPATED WATER OUTAGE TO ALLOW THE WVWA TO SCHEDULE AND NOTIFY AFFECTED CUSTOMERS.
5. CONTRACTOR TO FURNISH AND INSTALL TAPPING SLEEVE AND VALVE, TAP TO BE MADE BY WVWA.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION AND SHORING PER OSHA REGULATIONS.
7. THE WATER SERVICE FOR THIS PROJECT WILL REQUIRE A CONCRETE VAULT. PLEASE CONTACT CLEAR FLOW AT (540) 942-3300 TO ORDER THE VAULT. THE APPLICANT IS RESPONSIBLE FOR PAYMENT, DELIVERY, AND COORDINATION OF THE VAULT, AND INSTALLATION OF THE WATER SERVICE BETWEEN THE AUTHORITY MAIN AND THE VAULT INCLUDING THE TAPPING SLEEVE AND VALVE. CONTRACTOR TO EXCAVATE AND INSTALL TAPPING SLEEVE AND VALVE. THE WET TAP WILL BE MADE BY THE AUTHORITY UPON PAYMENT AND SCHEDULING.
8. WVWA WATER AVAILABILITY LETTER #17-331
9. GREASE INTERCEPTOR SHALL BE INSPECTED AND APPROVED BY WESTERN VIRGINIA WATER AUTHORITY PRIOR TO SITE RECEIVING WATER SERVICE CONNECTION.
10. FORTY-EIGHT (48) HOURS PRIOR TO INSTALLATION, THE CONTRACTOR SHALL COMPLETE THE FOLLOWING:

    SUBMIT SHOP DRAWINGS TO CASSIE ALTICE, 601 S. JEFFERSON STREET, SUITE 300, ROANOKE, VA 24011

    CALL (540) 537-3460 TO SCHEDULE GREASE INTERCEPTOR INSPECTION. THE INSPECTION SHALL OCCUR PRIOR TO THE CONTRACTOR COVERING THE GREASE INTERCEPTOR.

UTILITY CROSSING NOTE:

FOR UTILITY CROSSING TABLE SEE SHEET C-503.

BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING
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◆ NEW ENGLAND ◆ PHILADELPHIA, PA ◆ SOUTHERN MARYLAND ◆ ATLANTA, GA
◆ NEW JERSEY ◆ PITTSBURGH, PA ◆ NORTHERN VIRGINIA ◆ TAMPA, FL
◆ NEW YORK CITY ◆ LEHIGH VALLEY, PA ◆ CENTRAL VIRGINIA ◆ SOUTH FLORIDA
◆ NEW YORK METRO ◆ SOUTHEASTERN PA ◆ RALEIGH, NC ◆ DALLAS, TX
◆ LONG ISLAND ◆ MONMOUTH COUNTY ◆ NORTHERN NEW JERSEY ◆ WASHINGTON, DC

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REVISIONS

REV	DATE	COMMENT	BY
3		FOR APPROVAL	JCW
4	2/2/18	FIELD REVISION #1, REMOVE GREASE TRAP NORTH END OF BUILDING, REROUTE DOMESTIC AND FIRE SERVICE LINES AND REVISE FUEL CANOPY ROOF DRAINS AND DRY WELL	JCW
5	2/2/18	FIELD REVISION #2 CONSTRUCTION OFFICE	JCW
6	4/5/18	COMMENTS TO FIELD REVISION #1	JCW
7	4/11/18	FUEL STATION COORDINATION	JCW
8	7/13/18	FIELD REVISION #3 FIRE LINE REVISION	JCW

811
KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG
It's fast. It's free. It's the law.

APPROVED FOR CONSTRUCTION

PROJECT No.:	V172047
DRAWN BY:	DSH
CHECKED BY:	JCW
DATE:	9/12/17
SCALE:	AS NOTED
CAD I.D.:	UP6

PROJECT:
COMPREHENSIVE DEVELOPMENT PLAN
FOR
BJ's WHOLESALE CLUB
LOCATION OF SITE
1419 HERSHBERGER ROAD
CITY OF ROANOKE, VIRGINIA

BOHLER ENGINEERING
28 BLACKWELL PARK LANE, SUITE 201
WARRENTON, VIRGINIA 20186
Phone: (540) 349-4500
Fax: (540) 349-0321
VA@BohlerEng.com

COMMONWEALTH OF VIRGINIA
JOHN C. WRIGHT
Lic. No. 046960
7/13/18
PROFESSIONAL ENGINEER

SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C-501A

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