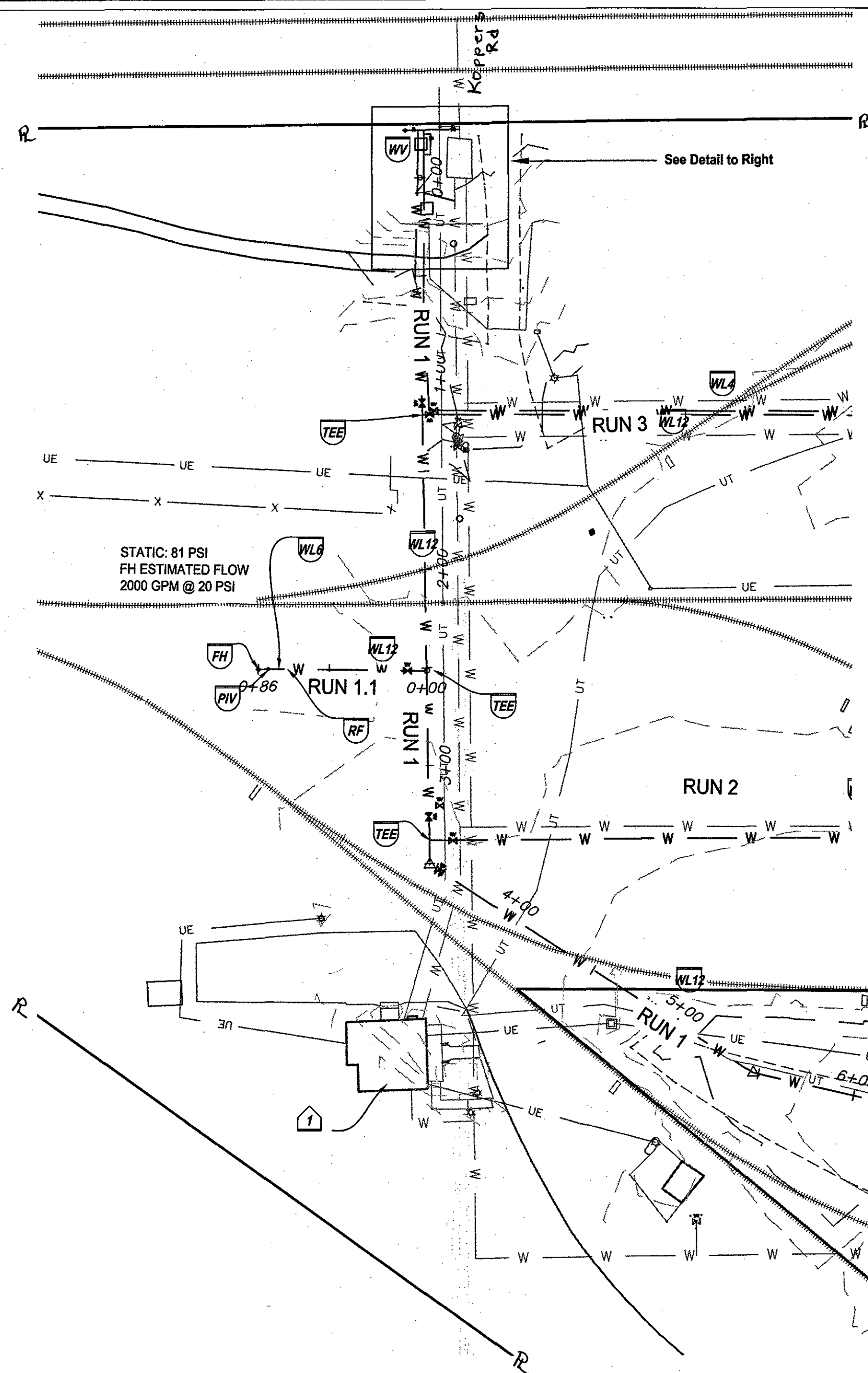




GENERAL UTILITY NOTES:

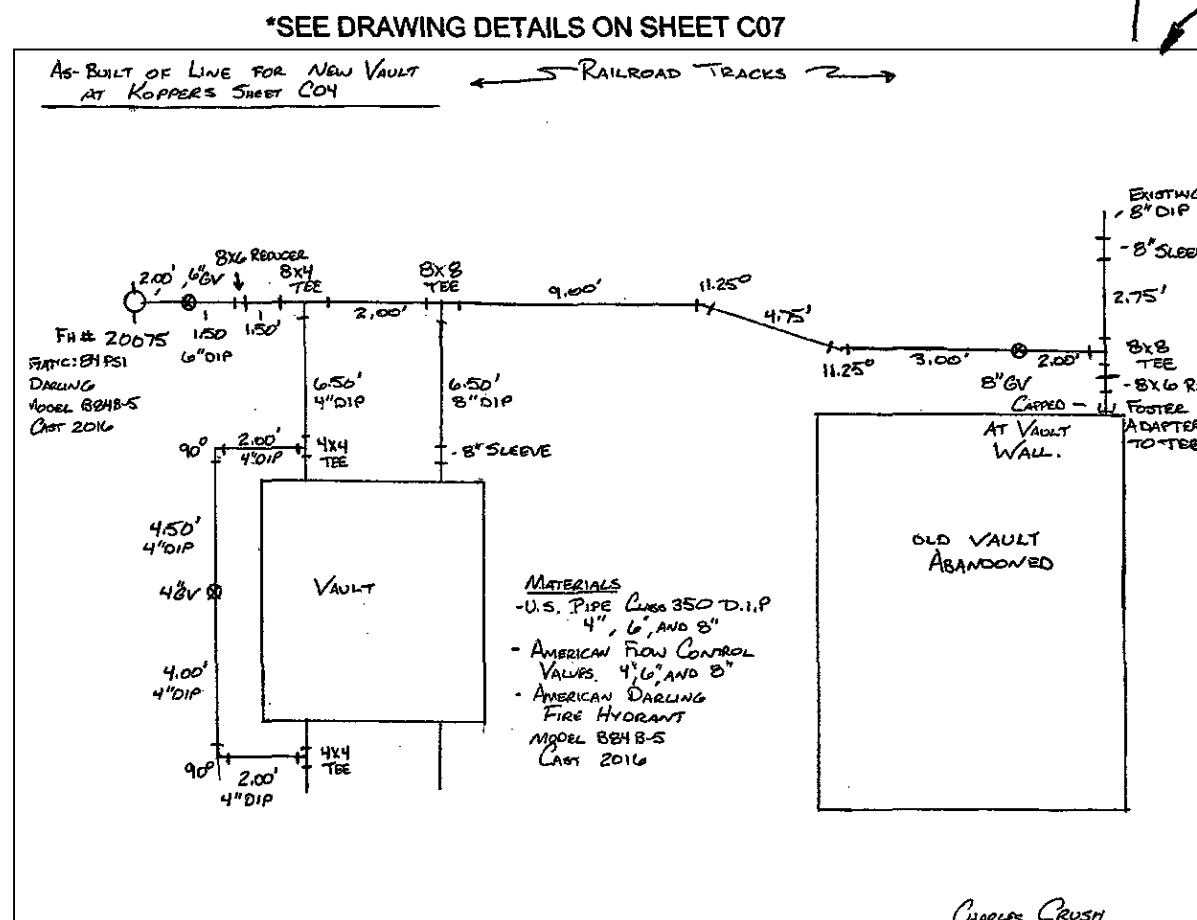
1. THE LOCATION, DEPTH, AND ALIGNMENT OF EXISTING UNDERGROUND UTILITIES IS BASED UPON VISUAL FIELD FEATURES AND AVAILABLE RECORDS AND SHOULD BE CONSIDERED APPROXIMATE. THERE MAY BE UTILITIES WHICH AFFECT THE PROPERTY NOT SHOWN HEREON. CONTRACTOR SHALL CALL "MISS UTILITY" TO VERIFY LOCATION OF ANY UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.
2. CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO WVA AND ROANOKE COUNTY STANDARDS.
3. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND INVERTS OF ALL EXISTING MANHOLES, GAS LINES, AND OTHER UTILITY LINES. UTILITIES SHOWN ON PLAN BASED ON OLD UTILITY PLANS AVAILABLE FROM KOPPERS.
4. CONTRACTOR TO COORDINATE WITH SALEM UTILITY COMPANIES FOR SERVICE LINES.
5. CONTRACTOR SHALL USE CAUTION DURING CONSTRUCTION TO NOT DISTURB EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO REMAINING UTILITIES SHALL BE REPAIRED.
6. ALL NEW UTILITIES TO BE INSTALLED UNDERGROUND.

WATERLINE NOTES:

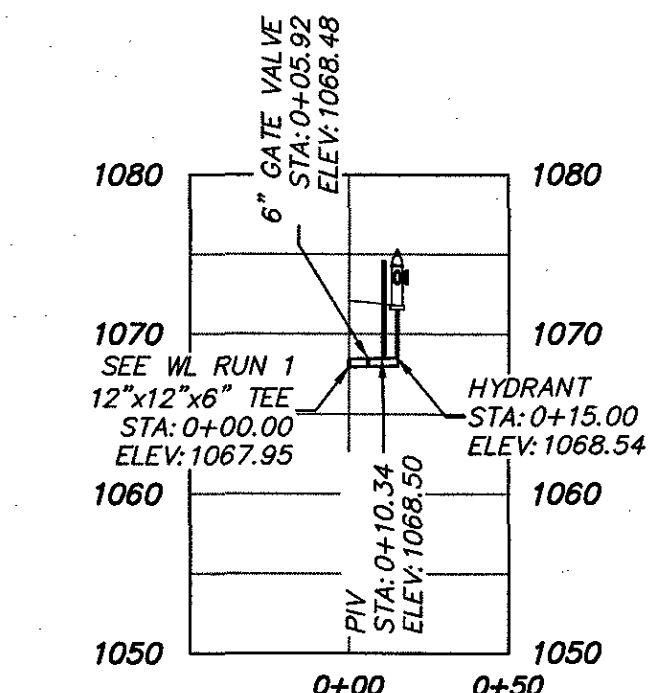
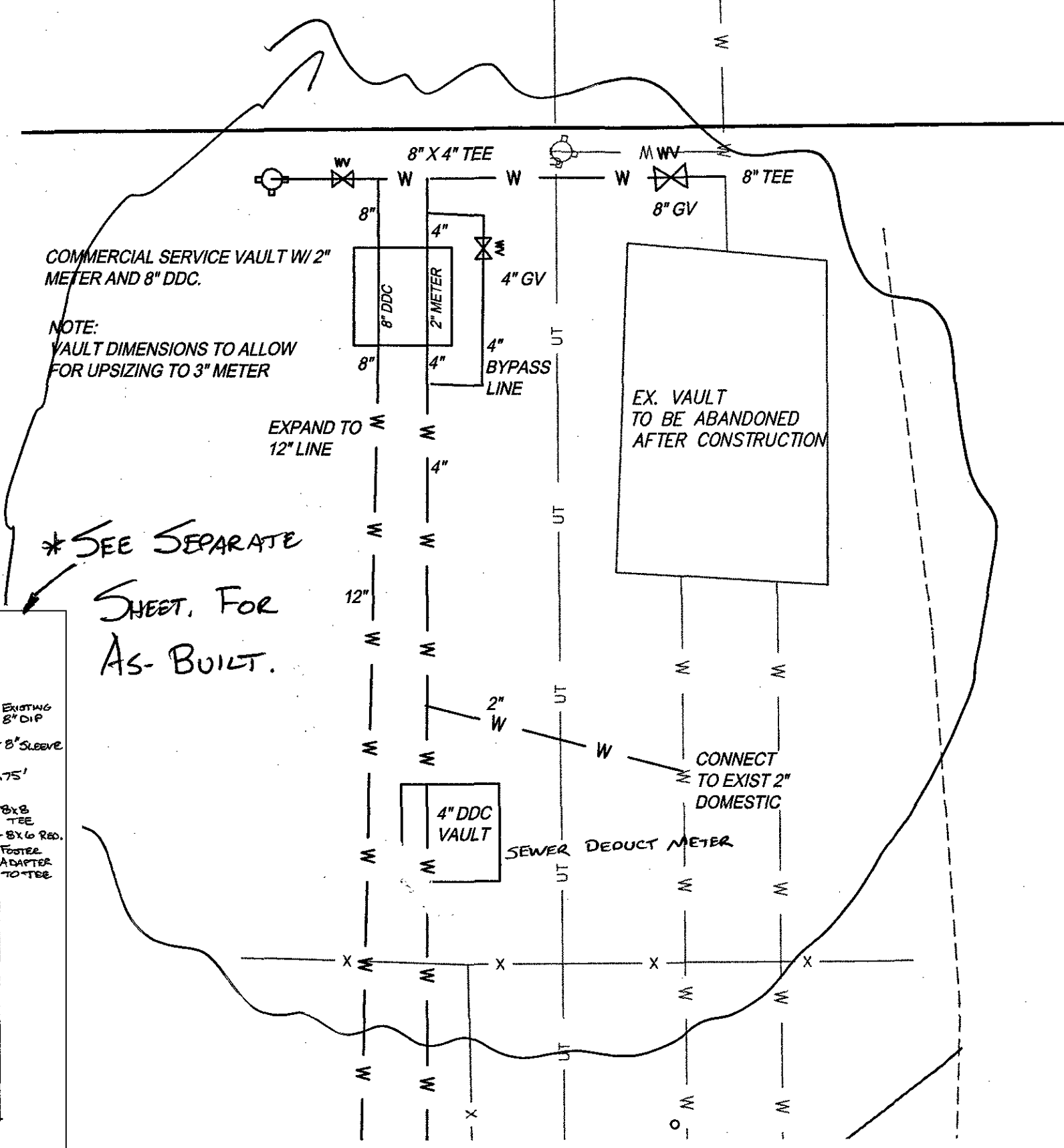
- WL#1: CONTRACTOR SHALL COORDINATE WITH WVA PRIOR TO CONSTRUCTION.
- WL#2: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING 8" WATER LINE PRIOR TO CONSTRUCTION. (ASSUMED 4.0' DEPTH).
- WL#3: MAINTAIN MINIMUM 3.0' COVER ON PROPOSED WATER LINE.
- WL#4: CONTRACTOR SHALL REPLACE METER VAULT TO ACCOMMODATE NEW SERVICES.

SITE UTILITY LEGEND

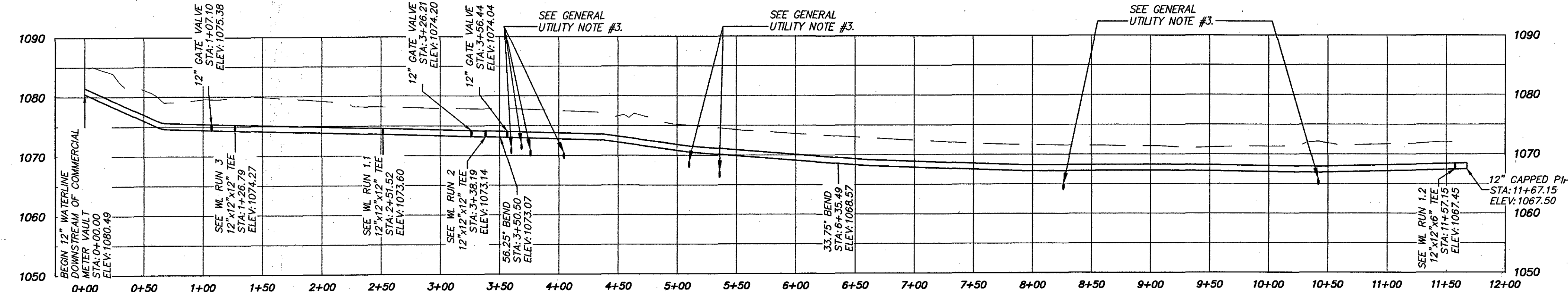
- FH PROPOSED FIRE HYDRANT. WITH 4 SURROUNDING BOLLARDS. (W-17)
- TEE PROPOSED TEE. SEE PROFILES FOR SPECIFIC SIZES.
- WL12 PROPOSED 12" NPS HDPE. DRISCOPLX 1500 (OR APPROVED EQUAL). SEE WATERLINE PROFILE.
- WL8 PROPOSED 8" NPS HDPE. DRISCOPLX 1500 (OR APPROVED EQUAL). SEE WATERLINE PROFILE.
- WL4 PROPOSED DOMESTIC 4" NPS HDPE. DRISCOPLX 1500 (OR APPROVED EQUAL). SEE WATERLINE PROFILE.
- WV EXISTING WATER VAULT MODIFIED W/ 8" FIRE SERVICE AND DOMESTIC SERVICE (SIZED BY FIXTURE COUNTS SHEET AND INDUSTRIAL DEMAND). (W-7)
- PV PROPOSED AMERICAN POST INDICATOR VALVE* (OR APPROVED EQUAL). WITH 4 SURROUNDING BOLLARDS.
- RF PROPOSED 12"x6" HDPE REDUCER FITTING.



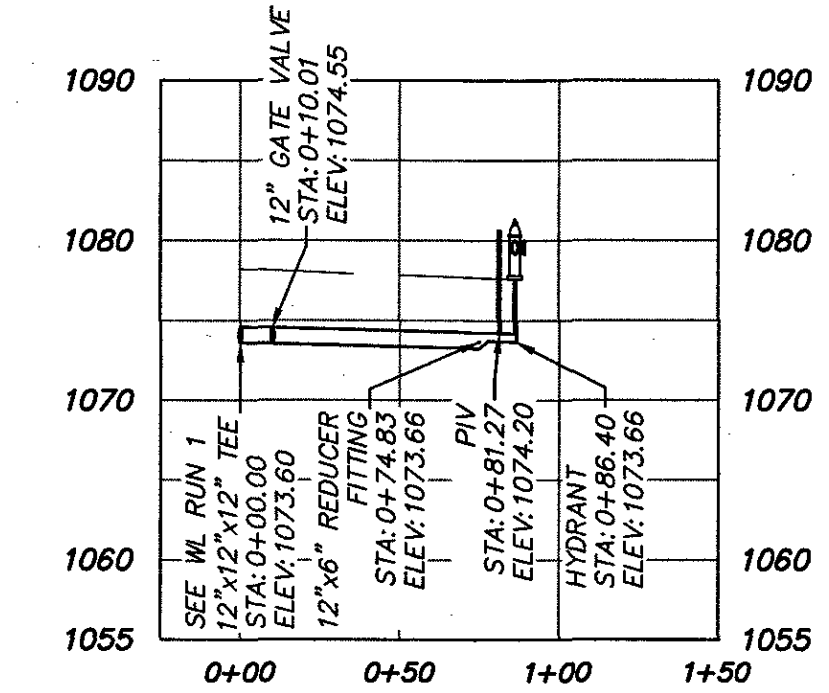
*SEE SEPARATE SHEET FOR AS-BUILT.



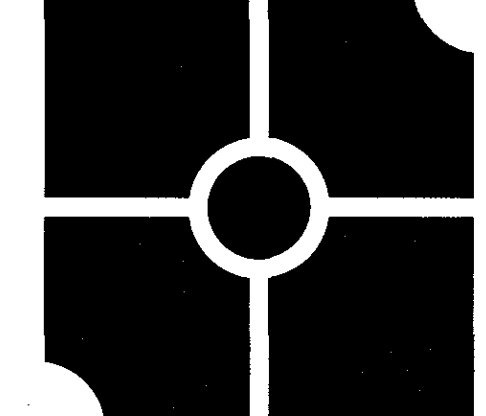
WATERLINE RUN 1.2 PROFILE
1" = 60' Horizontal
1" = 12' Vertical



WATERLINE RUN 1 PROFILE
1" = 60' Horizontal
1" = 12' Vertical



WATERLINE RUN 1.1 PROFILE
1" = 60' Horizontal
1" = 12' Vertical

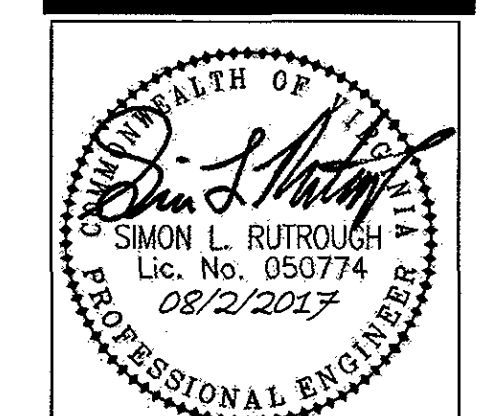


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**Koppers Waterline Extension
for Koppers Industries, Inc.**
4020 Koppers Road
Catawba Magisterial District
Roanoke County, Virginia

REVISIONS:

APPROVED

DESIGNED BY: JPA
DRAWN BY: JPA
CHECKED BY: SLR
SCALE: AS SHOWN
DATE: 07 April 2017

SHEET TITLE:

WATERLINE RUN 1
LAYOUT & PROFILES

C04
04 OF 09
PROJECT NUMBER:
16-0151-03