

STRUCTURE #	ANGLE BETWEEN PIPES ON EAST SIDE #° DN	NORTHING	EASTING
2	212°	3618132.5994	11046950.3370
4	119°	3618102.0504	11046921.4164
6	168°	3617959.3532	11046965.5391
8	106°, 194°	3617661.2514	11047131.0134
8.2	94°	3617669.7968	11047166.7600
8.4	115°	3617729.6334	11047156.7825
10	131°	3617565.1434	11047157.0651
12	122°	3617513.6210	11047262.7730
14	216°	3617538.0279	11047301.2999
16	135°	3617530.8904	11047425.8356

DIVERSION PUMPING:
WHEN REQUIRED FOR ACCEPTABLE COMPLETION OF THE
DIRECTIONAL DRILLING AND PIPE INSTALLATION PROCESS, THE CONTRACTOR SHALL
PROVIDE FOR CONTINUOUS SEWAGE FLOW AROUND SECTION(S) OF PIPE DESIGNATED FOR
PIPE INSTALLATION.

a. BY-PASSING OF SEWAGE FLOW SHALL BE ACCOMPLISHED BY USE OF A DIVERSION PUMP AND PIPING SYSTEM. DIVERSION PUMP AND BYPASS LINES SHALL BE OF ADEQUATE CAPACITY AND SIZE TO HANDLE THE FLOW. ALL COSTS FOR BY-PASS PUMPING REQUIRED DURING INSTALLATION OF THE PIPE SHALL BE PAID IN CONFORMANCE WITH THE RESPECTIVE BID ITEM.

b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUITY OF SANITARY SEWER SERVICE TO EACH FACILITY CONNECTED TO THE SECTION OF SEWER DURING EXECUTION OF THE WORK.

c. IF SEWAGE BACKUP OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN—UP, REPAIR, PROPERTY DAMAGE COST AND CLAIMS.

THE FOLLOWING IS A SUGGESTED CONSTRUCTION SEQUENCE. CONTRACTOR MAY SELECT ALTERNATIVES BUT REQUIRE APPROVAL FROM WVWA. SEE SHEET CO2 FOR EXISTIN CONDITIONS AND WHERE ABANDONING, PLUGGING, ETC WILL OCCUR.

CONSTRUCTION SEQUENCE:
TO BE COMPLETED BY CONTRACTOR IN ACCORDANCE WITH 2014 WESTERN VIRGINIA REGIONAL DESIGN AND CONSTRUCTION STANDARDS.

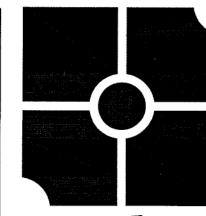
- 1) INSTALL BOTH TEMPORARY VEHICULAR STREAM CROSSINGS WHERE SHOWN ON PLANS IN ORDER TO ACCESS EXISTING MANHOLE 1003, ALONG WITH ALL OTHER ESC MEASURES AS REQUIRED BEFORE ANY CONSTRUCTION BEGINS.
- 2) SET DIVERSION PUMPING FROM EXISTING MANHOLE 3363 TO EXISTING MANHOLE 1002. ALSO SET DIVERSION PUMPING FROM EXISTING MANHOLE 2035 TO EXISTING
- MANHOLE 1002.
- 3) INSTALL PROPOSED MANHOLE 2 AND SDR-35 PIPE #1. ONCE INSTALLED, DIVERSION PUMPING CAN BE REMOVED.
  4) DIRECTIONAL DRILL HDPE PIPE #3 AND INSTALL PROPOSED MANHOLE 4.
- 5) CONTINUE TO INSTALL ALL STRUCTURES AND SDR-35 PIPE OR CL 350 DIP (AS NOTED) FROM PROPOSED MANHOLE 4 TO PROPOSED MANHOLE 12 (WITH THE EXCEPTION OF 8.1 THRU 8.4).

  6) INSTALL CL 350 DIP (43 USING A LITERAL CROSSING AND INSTALL PROPOSED MANHOLE 14 NOTE: DURING THIS STEP CONTRACTOR SHALL ANGLE PARK SHALL ANGLE
- 6) INSTALL CL 350 DIP #13 USING A UTILITY STREAM CROSSING AND INSTALL PROPOSED MANHOLE 14. NOTE: DURING THIS STEP, CONTRACTOR SHALL AVOID RAIN EVENTS.
  7) CONTINUE TO INSTALL ALL STRUCTURES AND CL 350 DIP FROM PROPOSED MANHOLE 14 TO MANHOLE 16. NOTE: DURING THIS STEP, CONTRACTOR SHALL AVOID RAIN
- EVENTS. ALSO, REMOVAL AND REPLACEMENT OF FENCE IS ANTICIPATED.

  8) SET DIVERSION PUMPING FROM EXISTING MANHOLE 3367 TO EXISTING MANHOLE 3366. NOTE: CONTRACTOR SHALL ANTICIPATE FLOW FROM LOT 4 DURING CONSTRUCTION.
- 9) REMOVE SECTION OF EXISTING 10" CAST IRON PIPE (±5' ON EITHER SIDE OF MH) TO INSTALL PIPE #8.1 AND PROPOSED MANHOLE 8.2.
- 10) THE DOWNSTREAM EXISTING CAST IRON PIPE IS TO BE ABANDONED IN PLACE.
  11) MOVE DIVERSION PUMPING TO PUMP FROM EXISTING MANHOLE 3378 TO EXISTING MANHOLE 3366. NOTE: CONTRACTOR SHALL ANTICIPATE FLOW FROM LOT 3 DURING
- CONSTRUCTION.
- 12) INSTALL MANHOLE 8.4 AND PIPE #8.3. ONCE INSTALLED, ALL DIVERSION PUMPING CAN BE REMOVED.
  13) SET DIVERSION PUMPING FROM EXISTING MANHOLE 3371 TO PROPOSED MANHOLE 14.
- 13) SET DIVERSION FOMEING FROM EXISTING MANHOLE SSYT TO PROFUSED MANHOLE 14.

  14) ABANDON THE TWO EXISTING OUTLETS IN EXISTING MANHOLE 3371. ONCE INSTALLED, ALL DIVERSION PUMPING CAN BE REMOVED.
- 15) ABANDON PIPE BETWEEN EXISTING MANHOLES #3369 AND #3367, ABANDON MANHOLE 3369 IN PLACE, & ABANDON INLET PIPE AT EXISTING MANHOLE 3370.

  CONTRACTOR TO PROTECT MANHOLES 3367 & 3370.
- 16) ABANDON EXISTING 10" PVC INLET AT EXISTING MANHOLE 1003.
- 17) ABANDON REMAINING EXISTING MANHOLES IN PLACE: 3363, 3364, 3365, & 3366.



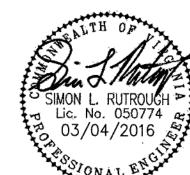
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verly BLVD Sewer Replacement Provided for WWWA

REVISIONS:	ADDEND
	ADDENDU 8/1
DESIGNED BY:	J
DRAWN BY:	J
CHECKED BY:	S
SCALE:	1" =
DATE:	22 April 20

SHEET TITLE:

SANITARY SEWER PLAN SHEET

