d75910018B.dgn Plotted By: DavisCD

PROJECT MANAGER Mohammad Zaid, PE (1540) 387-5374 (Salem) SURVEYED BY *Richard_Ziems,LS_(703).631-5325 (Burgess & Niple)* DESIGN SUPERVISED BY J. Scott Hodge PF_(540) 857-3322 (AECOM) DESIGNED BY Craig Riddle, PE (540) 857-3369 (AECOM)

<u></u>	REVISED	CTATE		CLIEFT N		
		STATE	ROUTE	PROJECT	SHEET NO	
		VA.	//	0081-011-120,PE-102 RW-202, C-502	I8B	

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

AECOM TECH. SERV., INC. ROANOKE, VIRGINIA UTILITY ENGINEER

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

QUANTITIES (WATER AND SANITARY SEWER)

SUMMARY OF WATER FACILITIES

SHEET NO.	"WATER METER BOX AND YOKE	2"WATER METER BOX AND YOKE	" WATER SERVICE LINE	2 WATER SERVICE LINE	6" DJ. WATER MAIN	8" D.J. WATER MAIN	I2" DJ. WATER MAIN	8" INSERTING VALVE AND BOX	I2" INSERTING VALVE AND BOX	6" GATE VALVE AND BOX	8" GATE VALVE AND BOX	I2" GATE VALVE AND BOX	FIRE HYDRANT	I" AIR RELEASE VALVE AND BOX	I2"xI2" TAPPING SLEEVE VALVE AND BOX	8"x8" TAPPING SLEEVE VALVE AND BOX	PIPE
	EA	EA	<u>L</u> F	<u>L</u> F	<u>L</u> F	<u>LF</u>	LF	EA	EA	EA	EA	<u>EA</u>	EA	EA	EA	<u>E</u> A	LF .
<i>18(3)</i>	2		221		5		280			1		/	1				
18(4)	1		128	73	5	27	814	1		1	1	6	1	/	,		197
18(4D)		2		82			689										
18(4H)					5	10	177			1		/	,			1	
18(6)							594		1			2		1	2		<i>136</i>
18(9)							223										84
TOTAL	3	2	<i>34</i> 9	<i>1</i> 55	<i>l</i> 5	37	2777	1	1	3	/	10	3	2	2	1	417

^{*} Service lines for single buisness connections are assumed to be l'diameter, and service lines for double buisness connections are assumed to be 2" diameter. Meter box and yoke for double business connections priced as 2" water meter box and yoke.

SUMMARY OF SANITARY SEWER FACILITIES

SHEET NO.	8" DJ.SANIT ARY SEWER PIPE	I2" DJ.SANIT ARY SEWER PIPE	SANIT ARY SEWER MANHOLE	SANITARY SEWER MANHOLE FRAME AND COVER, F&C-I	24 JACKED STEEL ENCASEMENT PIPE	
	LF	LF	LF	EA	LF	
18(6)	273	1006	141	14	118	
18(6E)		676	24	2	216	
TOTAL	<i>2</i> 73	1682	<i>1</i> 65	16	334	

^{*} Jacked Steel Encasement Pipe item to include price for casing pipe and all work as required to install carrier and casing pipe.

NOTE:

I. ALL QUANTITIES ARE ESTIMATED. CONTRACTOR SHALL PROVIDE BID TO COVER ALL

COMPONENTS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS, EVEN IN

CASES WHERE SPECIFIC LINE ITEMS ARE NOT IDENTIFIED.

0081-011-120

^{**} Jacked Steel Encasement Pipe item to include price for casing pipe and all work as required to install carrier and casing pipe.