

5/14/99

BILL OF MATERIALS

PROJECT REFERENCE NO.	SHEET NO.
R-2915A	UC-3E
DESIGNED BY: SAG	
DRAWN BY: SAG	
CHECKED BY: KCZ	
APPROVED BY: KCZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

BILL OF MATERIALS FOR LAUNCHER & RECEIVER STATION

DWG CODE NO.	QTY	UNIT	FNG PART NUMBER	DESCRIPTION	UNIT PRICE	TOTAL
PIPE						
1	5	LF		2" Pipe ERW Bare 2 x .500 X-52 DRL		0.00
2	30	LF		4" Pipe ERW Bare 4 x .237 X-52 DRL		0.00
3	180	LF		6" Steel Pipe - 6.625" OD x .280" W.T., API-5L X-52, 16/18 mil FBE Coating		0.00
4	100	LF		10" Steel Pipe (Non Drill) - 10.75" OD x .219" W.T., API-5L X-52, 16/18 mil FBE Coating		0.00
5	40	LF		6" Steel Pipe - 6.625" OD x .280" W.T., API-5L X-52, Bare Pipe		0.00
6	20	LF		10" Steel Pipe (Non Drill) - 10.75" OD x .219" W.T., API-5L X-52, Bare Pipe		0.00
VALVES						
10	6	EA		VALVE BALL 1 FPT LVR 3000 MWP RP 1" FNPT X FNPT		0.00
11	2	EA		LEVER OPERATED BALL VALVE THREADED END CONNECTION - 2-INCH		0.00
12	3	EA		VALVE PLUG 4 FxF ANSI 600 GEAR 4" RAISED FACE FLANGE X RAISED FACE FLANGE ANSI 600#		0.00
13	4	EA		VALVE BALL 6 WXW ANSI 600 W/7" EXT 12" ANSI 600# WELD X WELD BALL VALVESTANDARD TRIM FULL PORTGEAR		0.00
14	1	EA		VALVE BALL 10 WXW ANSI 600 W/7" EXT 12" ANSI 600# WELD X WELD BALL VALVESTANDARD TRIM FULL PORTGEAR		0.00
15	3	EA		VALVE BALL 1/2 FPT LVR HANDLE 3000MWP		0.00
16	3	EA		CLOSURE WELD 4 600# YALE FIG 500 PAV		0.00
WELD FITTINGS						
20	6	EA		ELL 6" 45 DEGREE 5R		0.00
21	1	EA		ELL 6" 90 DEGREE 5R		0.00
22	3	EA		ELL 10" 45 DEGREE 5R		0.00
23	3	EA		FLANGE BL RF 4 ANSI 600 1480MWP		0.00
24	9	EA		FLANGE RFWN 4 ANSI 600 1480 Y-52		0.00
25	2	EA		FLANGE BL RF 6 ANSI 600 1480MWP		0.00
26	2	EA		FLANGE RFWN 6 ANSI 600 1480 Y-52		0.00
27	1	EA		FLANGE BL RF 10 ANSI 600 1480MWP		0.00
28	1	EA		FLANGE RFWN 10 ANSI 600 1480MWP		0.00
29	2	EA		JOINT INSUL 6 W X W ANSI 600 1440MWP		0.00
30	1	EA		JOINT INSUL 10 W X W ANSI 600 1440MWP X52		0.00
31	2	EA		TEE WELD BBT 6 X 6 X 4 Y-52		0.00
32	2	EA		TEE WELD BBT 6 X 6 X 6 Y-52		0.00
33	1	EA		TEE WELD BBT 10 X 10 X 2 Y-52		0.00
34	1	EA		TEE WELD BBT 10 X 10 X 4 Y-52		0.00
35	2	EA		TEE WELD BBT 10 X 10 X 6 Y-52		0.00
MISC. MATERIAL						
40	1	EA		HEX HEAD PLUG - 2"		0.00
41	6	EA		NIPPLE SMLS 1 X 4 A106 SCH 80 TBE		0.00
42	2	EA		NIPPLE SMLS 1/2 X 4 A106 SCH 80 TBE		0.00
43	2	EA		THREDOLET STANDARD 6-10 X 1 3000# CLASS THREDOLET WITH BASE BEVELED TO WELD TO 6" - 10" NPS HEADER		0.00
44	1	EA		THREDOLET STANDARD 3-8 X 1/2		0.00
45	2	EA		SUPPORT PIPE 6 EZ LINE TYPE CSB		0.00
46	1	EA		SUPPORT PIPE 10 EZ LINE TYPE CSB		0.00
47	1	EA		GASKET SPIRAL 6 ANSI 600 SS BACKED		0.00
48	1	EA		GASKET SPIRAL 10 ANSI 600 SS BACKED		0.00
49	48	EA		NUT A194 HARD STEEL 1" (6" ANSI 600)		0.00
50	32	EA		NUT A194 HARD STEEL 1-1/4" (10" ANSI 600)		0.00
51	24	EA		STUD HARD 1 X 7-1/2 A193 (6" ANSI 600)		0.00
52	16	EA		STUD HARD 1-1/4 X 9 A193 (10" ANSI 600)		0.00
53	6	EA		GASKET SPIRAL 4 ANSI 600 SS BACKED		0.00
54	3	EA		PLUG FS 1 MPT		0.00
55	3	EA		PLUG FS 1/2 MPT		0.00
56	1	EA		NIPPLE SMLS TOE 2 X 6 A106		0.00
57	1	EA		NIPPLE SMLS 2 X 6 A106 SCH 80 TBE		0.00
58	24	EA		STUD HARD 7/8 X 6 A193 (4" ANSI 600)		0.00
59	48	EA		NUT A194 HARD STEEL 7/8 (4" ANSI 600)		0.00

BILL OF MATERIALS FOR PIPE LINE

QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
PIPE				
50	LF	10" Steel Pipe (Non Drill) - 10.75" OD x .219" W.T., API-5L X-52, 16/18 mil FBE Coating		
1340	LF	10" Steel Pipe (Drill) - 10.75" OD x .250" W.T., API-5L X-52, Dual Coated		
60	LF	10" BYPASS PIPING		
6106	LF	6" Steel Pipe - 6.625" OD x .280" W.T., API-5L X-52, 16/18 mil FBE Coating		
1420	LF	6" BYPASS PIPING		
WELD FITTINGS				
1	EA	10" CAP		
4	EA	10" 45 DEGREE ELBOW		
4	EA	10" 90 DEGREE ELBOW		
1	EA	10" STOPPLE PLUS FITTING KIT		
1	EA	10" STOPPLE PLUS THROWAWAY FITTING		
2	EA	10" FLANGE		
2	EA	10" GASKET		
24	EA	STUD 1 1/4" X 7 1/2"		
48	EA	NUT 1 1/4"		
20	EA	6" CAP		
56	EA	6" 45 DEGREE ELBOW		
61	EA	6" 90 DEGREE ELBOW		
15	EA	6" STOPPLE PLUS FITTING KIT		
15	EA	6" STOPPLE PLUS THROWAWAY FITTING		
30	EA	6" FLANGE		
30	EA	6" GASKET		
360	EA	STUD 1" X 6 3/4"		
720	EA	NUT 1"		
90	EA	THREAD O RING 2 THREAD O RING FTG 2 CS 3600 PSIG FOR 6.00 AND LARGER PIPE		
MISC. MATERIAL				
21	EA	TEST STATION , BIG FINK STYLE, ABOVE GROUND ON YELLOW POST		