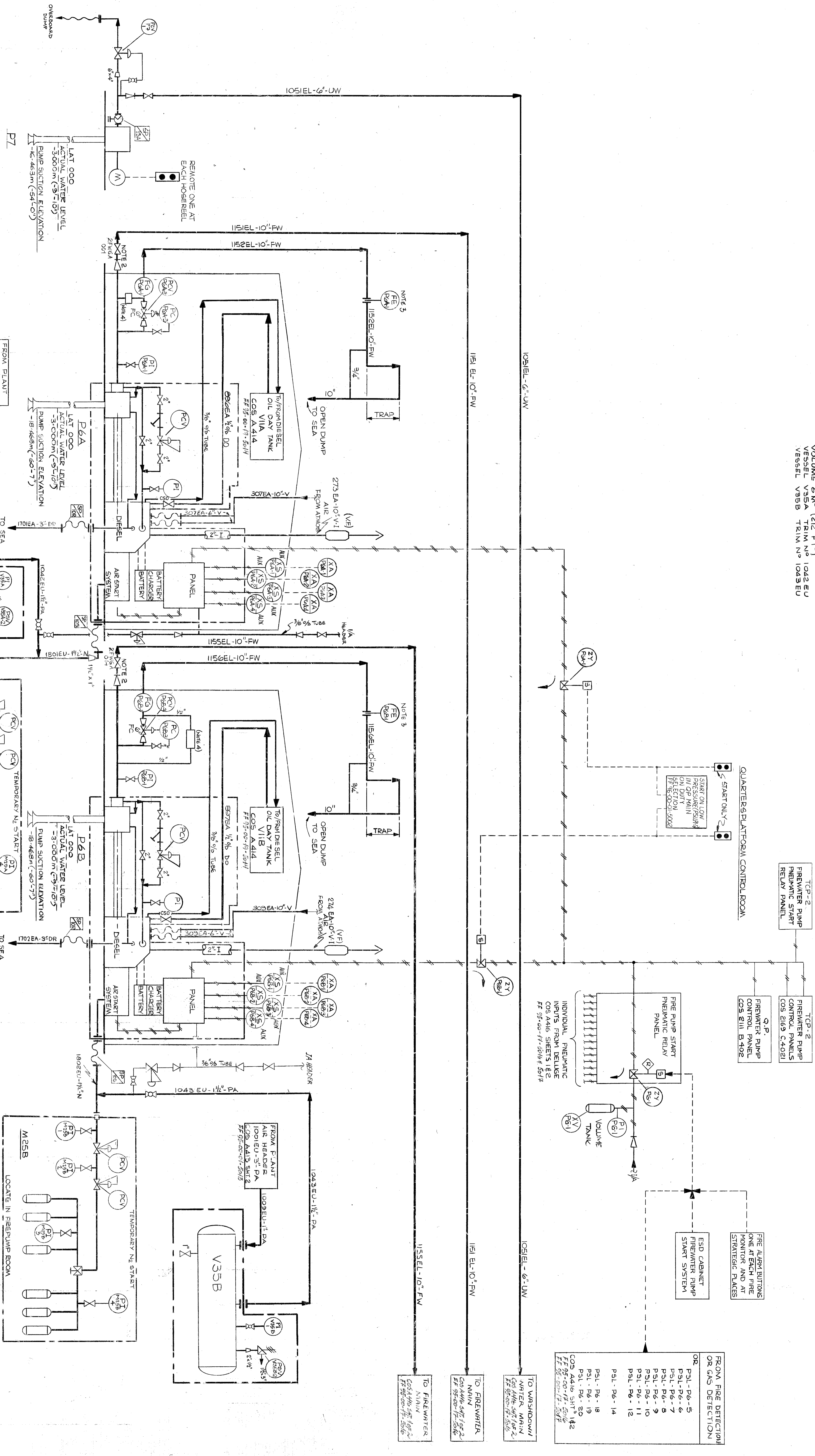


**P7**  
WASHDOWN PUMP  
1892 k/m AT 9.63 BARS  
(500USGPM AT 125PSIG)  
AT PUMP HEAD

**V35A & B**  
AIR START VESSEL  
1372 MM O/D X 4318 TOTAL LENGTH  
(54" O/D X 170" TOTAL LENGTH)  
DESIGN PRESSURE 11.34 BARS ABS (150 PSIG)  
VOLUME 6 M<sup>3</sup> (212 FT<sup>3</sup>)  
VESSEL V35A TRIM NO 1043 EU  
VESSEL V35B TRIM NO 1043 EU

**P6A & B**  
FIREWATER PUMPS  
7570 k/m AT 9.63 BARS  
(2,000USGPM AT 125PSIG)  
AT EACH PUMP HEAD

**M25A & B**  
NITROGEN START SYSTEM  
6 X 1/2" NITROGEN BOTTLES  
0.25 MM Ø X 1.422 M HIGH PER BOTTLE  
(3" Ø X 56" HIGH PER BOTTLE)  
CAPACITY: 7.57 SCFM (975 SCFH EACH @ 173 BARS ABS (2500 PSIG))



- NOTES**
- 1) LOCATE PUMPS AT OPPOSITE ENDS OF THESE VALUES TO BE LOCATED OUTSIDE FIREPUMP ROOMS
  - 2) LOCATE PUMPS AT OPPOSITE ENDS OF THESE VALUES TO BE LOCATED OUTSIDE FIREPUMP ROOMS
  - 3) PUMPERS NOT NORMALLY INSTALLED. AIR START SYSTEMS TO BE INSTALLED IN FIREPUMP ROOMS
  - 4) AIR RELEASE VALVE (AV)

NO.	DATE	BY	CHKD.	DESCRIPTION
1	01/12/2011	AS/11	AS/11	ISSUED FOR CONSTRUCTION
2	02/01/2011	AS/11	AS/11	REVISED PER COMMENTS
3	02/15/2011	AS/11	AS/11	REVISED PER COMMENTS
4	03/01/2011	AS/11	AS/11	REVISED PER COMMENTS
5	03/15/2011	AS/11	AS/11	REVISED PER COMMENTS
6	04/01/2011	AS/11	AS/11	REVISED PER COMMENTS
7	04/15/2011	AS/11	AS/11	REVISED PER COMMENTS
8	05/01/2011	AS/11	AS/11	REVISED PER COMMENTS
9	05/15/2011	AS/11	AS/11	REVISED PER COMMENTS
10	06/01/2011	AS/11	AS/11	REVISED PER COMMENTS
11	06/15/2011	AS/11	AS/11	REVISED PER COMMENTS
12	07/01/2011	AS/11	AS/11	REVISED PER COMMENTS
13	07/15/2011	AS/11	AS/11	REVISED PER COMMENTS
14	08/01/2011	AS/11	AS/11	REVISED PER COMMENTS
15	08/15/2011	AS/11	AS/11	REVISED PER COMMENTS
16	09/01/2011	AS/11	AS/11	REVISED PER COMMENTS
17	09/15/2011	AS/11	AS/11	REVISED PER COMMENTS
18	10/01/2011	AS/11	AS/11	REVISED PER COMMENTS
19	10/15/2011	AS/11	AS/11	REVISED PER COMMENTS
20	11/01/2011	AS/11	AS/11	REVISED PER COMMENTS
21	11/15/2011	AS/11	AS/11	REVISED PER COMMENTS
22	12/01/2011	AS/11	AS/11	REVISED PER COMMENTS
23	12/15/2011	AS/11	AS/11	REVISED PER COMMENTS
24	01/01/2012	AS/11	AS/11	REVISED PER COMMENTS
25	01/15/2012	AS/11	AS/11	REVISED PER COMMENTS
26	02/01/2012	AS/11	AS/11	REVISED PER COMMENTS
27	02/15/2012	AS/11	AS/11	REVISED PER COMMENTS
28	03/01/2012	AS/11	AS/11	REVISED PER COMMENTS
29	03/15/2012	AS/11	AS/11	REVISED PER COMMENTS
30	04/01/2012	AS/11	AS/11	REVISED PER COMMENTS
31	04/15/2012	AS/11	AS/11	REVISED PER COMMENTS
32	05/01/2012	AS/11	AS/11	REVISED PER COMMENTS
33	05/15/2012	AS/11	AS/11	REVISED PER COMMENTS
34	06/01/2012	AS/11	AS/11	REVISED PER COMMENTS
35	06/15/2012	AS/11	AS/11	REVISED PER COMMENTS
36	07/01/2012	AS/11	AS/11	REVISED PER COMMENTS
37	07/15/2012	AS/11	AS/11	REVISED PER COMMENTS
38	08/01/2012	AS/11	AS/11	REVISED PER COMMENTS
39	08/15/2012	AS/11	AS/11	REVISED PER COMMENTS
40	09/01/2012	AS/11	AS/11	REVISED PER COMMENTS
41	09/15/2012	AS/11	AS/11	REVISED PER COMMENTS
42	10/01/2012	AS/11	AS/11	REVISED PER COMMENTS
43	10/15/2012	AS/11	AS/11	REVISED PER COMMENTS
44	11/01/2012	AS/11	AS/11	REVISED PER COMMENTS
45	11/15/2012	AS/11	AS/11	REVISED PER COMMENTS
46	12/01/2012	AS/11	AS/11	REVISED PER COMMENTS
47	12/15/2012	AS/11	AS/11	REVISED PER COMMENTS
48	01/01/2013	AS/11	AS/11	REVISED PER COMMENTS
49	01/15/2013	AS/11	AS/11	REVISED PER COMMENTS
50	02/01/2013	AS/11	AS/11	REVISED PER COMMENTS
51	02/15/2013	AS/11	AS/11	REVISED PER COMMENTS
52	03/01/2013	AS/11	AS/11	REVISED PER COMMENTS
53	03/15/2013	AS/11	AS/11	REVISED PER COMMENTS
54	04/01/2013	AS/11	AS/11	REVISED PER COMMENTS
55	04/15/2013	AS/11	AS/11	REVISED PER COMMENTS
56	05/01/2013	AS/11	AS/11	REVISED PER COMMENTS
57	05/15/2013	AS/11	AS/11	REVISED PER COMMENTS
58	06/01/2013	AS/11	AS/11	REVISED PER COMMENTS
59	06/15/2013	AS/11	AS/11	REVISED PER COMMENTS
60	07/01/2013	AS/11	AS/11	REVISED PER COMMENTS
61	07/15/2013	AS/11	AS/11	REVISED PER COMMENTS
62	08/01/2013	AS/11	AS/11	REVISED PER COMMENTS
63	08/15/2013	AS/11	AS/11	REVISED PER COMMENTS
64	09/01/2013	AS/11	AS/11	REVISED PER COMMENTS
65	09/15/2013	AS/11	AS/11	REVISED PER COMMENTS
66	10/01/2013	AS/11	AS/11	REVISED PER COMMENTS
67	10/15/2013	AS/11	AS/11	REVISED PER COMMENTS
68	11/01/2013	AS/11	AS/11	REVISED PER COMMENTS
69	11/15/2013	AS/11	AS/11	REVISED PER COMMENTS
70	12/01/2013	AS/11	AS/11	REVISED PER COMMENTS
71	12/15/2013	AS/11	AS/11	REVISED PER COMMENTS
72	01/01/2014	AS/11	AS/11	REVISED PER COMMENTS
73	01/15/2014	AS/11	AS/11	REVISED PER COMMENTS
74	02/01/2014	AS/11	AS/11	REVISED PER COMMENTS
75	02/15/2014	AS/11	AS/11	REVISED PER COMMENTS
76	03/01/2014	AS/11	AS/11	REVISED PER COMMENTS
77	03/15/2014	AS/11	AS/11	REVISED PER COMMENTS
78	04/01/2014	AS/11	AS/11	REVISED PER COMMENTS
79	04/15/2014	AS/11	AS/11	REVISED PER COMMENTS
80	05/01/2014	AS/11	AS/11	REVISED PER COMMENTS
81	05/15/2014	AS/11	AS/11	REVISED PER COMMENTS
82	06/01/2014	AS/11	AS/11	REVISED PER COMMENTS
83	06/15/2014	AS/11	AS/11	REVISED PER COMMENTS
84	07/01/2014	AS/11	AS/11	REVISED PER COMMENTS
85	07/15/2014	AS/11	AS/11	REVISED PER COMMENTS
86	08/01/2014	AS/11	AS/11	REVISED PER COMMENTS
87	08/15/2014	AS/11	AS/11	REVISED PER COMMENTS
88	09/01/2014	AS/11	AS/11	REVISED PER COMMENTS
89	09/15/2014	AS/11	AS/11	REVISED PER COMMENTS
90	10/01/2014	AS/11	AS/11	REVISED PER COMMENTS
91	10/15/2014	AS/11	AS/11	REVISED PER COMMENTS
92	11/01/2014	AS/11	AS/11	REVISED PER COMMENTS
93	11/15/2014	AS/11	AS/11	REVISED PER COMMENTS
94	12/01/2014	AS/11	AS/11	REVISED PER COMMENTS
95	12/15/2014	AS/11	AS/11	REVISED PER COMMENTS
96	01/01/2015	AS/11	AS/11	REVISED PER COMMENTS
97	01/15/2015	AS/11	AS/11	REVISED PER COMMENTS
98	02/01/2015	AS/11	AS/11	REVISED PER COMMENTS
99	02/15/2015	AS/11	AS/11	REVISED PER COMMENTS
100	03/01/2015	AS/11	AS/11	REVISED PER COMMENTS

**FRIGG FIELD**  
95-00-17-5015  
21E

**EIF**  
UTILITY FLOW SHEET  
FIREWATER PUMPS

DATE: 05/15/2014  
BY: AS/11  
CHKD: AS/11