WIRE RUN NO	NO OF WIRES	SIZE OF WIRE	TYPE OF WIRE	FROM	VIA	TO	WIRE NUMBERS
FT100	3 1	600 kcmils 1/0	1 1	SWGR E-001, BUS #2 (COMPT 5B)	E-027-NE(EXST), MH1, FS102NE	BUSSED GUTTER "B"	5BA-A, 5BA-B, 5BA-C GND
FT101	3 1	600 kcmils 1/0	1 1	SWGR E-001, BUS #2 (COMPT 5B)	E-028-NE(EXST), MH1, FS103NE	BUSSED GUTTER "B"	5BB-A, 5BB-B, 5BB-C GND
FT102	3 1	600 kcmils 1/0	1 1	SWGR E-001, BUS #1 (COMPT 3B)	E-033-NE(EXST), MH1, FS100NE	BUSSED GUTTER "A"	3BA-A, 3BA-B, 3BA-C GND
FT103	3 1	600 kcmils 1/0	1 1	SWGR E-001, BUS #1 (COMPT 3B)	E-034-NE(EXST), MH1, FS101NE	BUSSED GUTTER "A"	3BB-A, 3BB-B, 3BB-C GND
FT104	3 1	350 kcmils 1/0	1 1	BUSSED GUTTER "B"	FS108NE	HEATER #2, HTR-302C-2	302C2-L1AA, -L1AB, -L1AC GND
FT105	3 1	350 kcmils 1/0	1 1	BUSSED GUTTER "B"	FS109NE	HEATER #2, HTR-302C-2	302C2-L1BA, -L1BB, -L1BC GND
FT106	3	2	1	BUSSED GUTTER "B"	FS110NE	T-1/PP-1 (MINI POWER CENTER)	T1-H1, T1-H2, GND
FT107	3 1	350 kcmils 1/0	1 1	BUSSED GUTTER "A"	FS105NE	HEATER #1, HTR-302C-1	302C1-L1AA, -L1AB, -L1AC GND
FT108	3 1	350 kcmils 1/0	1 1	BUSSED GUTTER "A"	FS106NE	HEATER #1, HTR-302C-1	302C1-L1BA, -L1BB, -L1BC GND
FT109	4	2	1	BUSSED GUTTER "A"	FS107NE	FLUSH PUMP MTR START	P3100A-A, -B, -C, GND
FT110	3 1	8 10	1 1	FLUSH PUMP MTR START	FS115NE, JB-3, FS116NE	FLUSH PUMP P-3100A	P3100A-T1, -T2, -T3 GND
FT111	8	12	3	FLUSH PUMP MTR START	FS141NK, JB-4, FS140NK, HH #7(FLEX CND), FS143NK, MH #1(FLEX CND), FS144NK	PCU-1	P3100A-2, -3, -4, -6, -X2, GND, 2 SP
FT112	3	12	3	PP-1 (MINI POWER CENTER)	FS117NE	JUNCTION BOX JB-6	PP1-2H, -2N, GND (SPLICE WIRES WITH WIRE RUNS FT113, FT114, FT115 & FT121)
FT113	3	12	3	JUNCTION BOX JB-6	FS142NK	PIPING HEAT TRACE THERMOSTAT TH-1	PP1-2H, -21A, GND (SPLICE WIRES WITH WIRE RUNS FT112, FT114, FT115 & FT121)
FT114	3	12	3	JUNCTION BOX JB-6	FS127NE, FS128NE	PIPING HEAT TRACE CABLE HT-1	PP1-21A, -2N, GND (SPLICE WIRES WITH WIRE RUNS FT112, FT113, FT115 & FT121)
FT115	3	12	3	JUNCTION BOX JB-6	FS125NE	PIPING HEAT TRACE CABLE HT-2	PP1-21A, -2N, GND (SPLICE WIRES WITH WIRE RUNS FT112, FT113, FT114 & FT121)
FT116	3	12	3	PP-1 (MINI POWER CENTER)	FS118NE, JB-7, FS119NE, JB-8A, FS121NE, FS123NE, FS134NE	CHEM ADD PUMP SKID ON-OFF SW	PP1-3H, -3N, GND
FT117	3	12	3	PP-1 (MINI POWER CENTER)	FS118NE, JB-7, FS119NE, JB-8A, FS120NE	DRUM HEATER RCPT	PP1-4H, -4N, GND
FT118	3	12	3	PP-1 (MINI POWER CENTER)	FS117NE, JB-6, FS127NE, FS129NE	FE/FT 302C-1	PP1-5H, -5N, GND
FT119	3	12	3	PP-1 (MINI POWER CENTER)	FS118NE, JB-7, FS114NE	M26/M5 DOUBLE PIPE HEAT TRACE THERMOSTAT & POWER CONNECTOR	PP1-6L1, -6L2, GND
FT120	3	12	3	PP-1 (MINI POWER CENTER)	FS118NE, JB-7, FS119NE, JB-8A, FS121NE, FS122NE	FE/FT 302C-2	PP1-7H, -7N, GND
FT121	3	12	3	JUNCTION BOX JB-6	FS126NE	PIPING HEAT TRACE CABLE HT-3	PP1-21A, -2N, GND (SPLICE WIRES WITH WIRE RUNS FT112, FT113, FT114 & FT115)
FT122	2	16	4	HTR-302C-1 CONT PNL (TSH-302C-4A)	FS151NL, JB-5, FS150NL, HH #7(FLEX CND), FS160NL MH #1(FLEX CND), FS161NL	PCU-1 (TAH-302C-1A)	TAH-302C1A-1, -2
FT123	1	12	1	PP-1 (MINI POWER CENTER)	FS130NE, FS132NE	SUMP PUMP P-302C-3	PP1-9N
FT124	2	16	4	HTR-302C-2 CONT PNL (TSH-302C-4B)	FS152NL, JB-5, FS150NL, HH #7(FLEX CND), FS160NL MH #1(FLEX CND), FS161NL	PCU-1 (TAH-302C-1B)	TAH-302C1B-1, -2
FT125	2	12	1	PP-1 (MINI POWER CENTER)	FS130NE, FS131NE	SUMP PUMP P-302C-3 MOTOR STARTER	PP1-9H, GND
FT126	2	12	1	SUMP PUMP P-302C-3 MOTOR STARTER	FS131NE, FS132NE	SUMP PUMP P-302C-3	PP1-9T1, GND
FT127	2	16	4	FE/FT 302C-1	FS155NL, FS157NL, FS159NL, JB-5, FS150NL, HH #7(FLEX CND), FS160NL, MH #1(FLEX CND), FS161NL	PCU-1	FT-302C1(+), (-), SH
FT128	2	16	4	FE/FT 302C-2	FS168NL, FS166NL, FS165NL, JB-5, FS150NL, HH #7(FLEX CND), FS160NL, MH #1(FLEX CND), FS161NL	PCU-1	FT-302C2(+), (-), SH
FT129	2	16	5	TE-302C-1	FS156NL, FS157NL, FS159NL, JB-5, FS150NL, HH #7(FLEX CND), FS170NL, MH #1(FLEX CND), FS161NL	PCU-1	TE-302C1(+), (-), SH
FT130	2	16	5	TE-302C-2	FS169NL, FS165NL, JB-5, FS150NL, HH #7(FLEX CND), FS170NL, MH #1(FLEX CND), FS161NL	PCU-1	TE-302C2(+), (-), SH
FT131	2	16	4	LIT-302C-1	FS158NL, FS159NL, JB-5, FS150NL, HH #7(FLEX CND), FS170NL, MH #1(FLEX CND), FS161NL	PCU-1	LIT-302C1(-), PS1(+), SH
FT132	2	16	4	CHEM ADD PUMP SKID (P3100B) CONTROLLER	FS171NL, FS167NL, FS166NL, FS165NL, JB-5, FS150NL, HH #7(FLEX CND), FS170NL, MH #1(FLEX CND), FS161NL	PCU-1	FC-302C2(+), (-), SH
FT133	3	12	1	CHEM ADD PUMP SKID ON/OFF SWITCH	FS134NE, FS135NE, FS137NE	CHEM ADD PUMP SKID MOTOR	PP1-31, PP1-3N, GND
FT134	3	12	1	CHEM ADD PUMP SKID ON/OFF SWITCH	FS134NE, FS133NE	CHEM ADD PUMP SKID CONTROLLER	PP1-3H, PP1-3N, GND
FT135	2	14	6	CHEM ADD PUMP SKID CONTROLLER	FS171NL, FS172NL	ECCA	P3100B-1(+), (-), SH
FT136	3	12	1	CHEM ADD PUMP SKID CONTROLLER	FS133NE, FS135NE, FS136NE	ECCA	PP1-3H, PP1-3N, GND
FT137	3	12	1	HEAT TRACE JUNCTION BOX	FS111NE	CHEM ADD PUMP SKID HEAT TRACE	PP1-21A, -2N, (SPLICE WIRES WITH WIRE RUN FT121) GND
FT139	3 1	300 kcmils 1/0	1 1	SY241-EDS-DS-162	FS145NE	BUSSED GUTTER "A"	162-1A, 162-1B, 162-1C, 162-1GND
FT140	3 1	300 kcmils 1/0	1 1	SY241-EDS-DS-162	FS146NE	BUSSED GUTTER "A"	162-2A, 162-2B, 162-2C, 162-2GND
FT141	3 1	300 kcmils 1/0	1 1	SY241-EDS-DS-162	FS147NE	BUSSED GUTTER "A"	162-3A, 162-3B, 162-3C, 162-3GND

WIRE TYPES:

1 SINGLE CONDUCTOR, STRANDED COPPER POWER CABLE, 90°C, 600V, THHN/THWN, WITH PVC OR HYPALON JACKET
2 NOT USED
3 MULTICONDUCTOR, POWER/CONTROL CABLE, TYPE TC, 90°C, 600V, STRANDED COPPER CONDUCTORS WITH PVC OR HYPALON JACKET
4 INDIVIDUAL SHIELDED PAIR(S), INSTRUMENTATION CABLE, TYPE TC, 90°C, 600V, STRANDED COPPER CONDUCTORS, OVERALL SHIELD, WITH PVC OR HYPALON JACKET
5 TYPE K THERMOCOUPLE WIRE WITH SHIELD
6 MULTICONDUCTOR SHIELDED INSTRUMENTATION CABLE, TYPE TC, 90° C, 600V, STRANDED COPPER

CONDUIT SCHEDULE

CND NO	CND SIZE	WIRE RUN NUMBERS
FS100NE	4	FT102
FS101NE	4	FT103
FS102NE	4	FT100
FS103NE	4	FT101
FS104NE	4	SPARE
FS105NE	3	FT107
FS106NE	3	FT108
FS107NE	1-1/2	FT109
FS108NE	3	FT104
FS109NE	3	FT105
FS110NE	1-1/2	FT106
FS111NE	3/4	FT137
FS114NE	3/4	FT119
FS115NE	3/4	FT110
FS116NE	3/4	FT110
FS117NE	1	FT112,FT118
FS118NE	1-1/2	FT116,FT117,FT119,FT120
FS119NE	1-1/2	FT116,FT117,FT120
FS120NE	3/4	FT117
FS121NE	1	FT116,FT120
FS122NE	3/4	FT120
FS123NE	3/4	FT116
FS125NE	3/4	FT115
FS126NE	3/4	FT121
FS127NE	1	FT114,FT118
FS128NE	3/4	FT114
FS129NE	3/4	FT118
ITRS701NE	2	
FS130NE	3/4	FT123,FT125
FS131NE	3/4	FT125,FT126
FS132NE	3/4	FT123,FT126
FS133NE	3/4	FT134,FT136
FS134NE	3/4	FT116,FT133,FT134
FS135NE	3/4	FT133,FT136
FS136NE	3/4	FT136
FS137NE	3/4	FT133
FS140NK	2	FT111
FS141NK	3/4	FT111
FS142NK	3/4	FT113
FS143NK	**	FT111
FS144NK	2	FT111
FS145NE	2-1/2	FT139
FS146NE	2-1/2	FT140
FS147NE	2-1/2	FT141
FS150NL	2	FT122,FT124,FT127,FT128, FT129,FT130,FT131,FT132
FS151NL	3/4	FT122
FS152NL	3/4	FT124
FS155NL	3/4	FT127
FS156NL	3/4	FT129
FS157NL	1	FT127,FT129
FS158NL	3/4	FT131
FS159NL	1-1/2	FT127,FT129,FT131
FS160NL	*	FT122,FT124,FT127,FT128,
FS161NL	2	FT122,FT124,FT127,FT128, FT129,FT130,FT131,FT132
FS165NL	1-1/2	FT128,FT130,FT132
FS166NL	1	FT128,FT132
FS167NL	3/4	FT132
FS168NL	3/4	FT128
FS169NL	3/4	FT130
FS170NL	*	FT129,FT130,FT131,FT132
ITRS702NL	2	
FS171NL	3/4	FT132,FT135
FS172NL	3/4	FT135

CONDUIT SCHEDULE

CND NO	CND SIZE	WIRE RUN NUMBERS
E-027-NE	4	FT100
E-028-NE	4	FT101
E-033-NE	4	FT102
E-034-NE	4	FT103

SEE DWG H-2-824459

* AEROQUIP "FODUCT" CONDUIT INNERDUCT IN EXST CND E-054-NK (SEE H-2-824459)

** CONDUIT AREA ABOVE "FODUCT"

GREGORY P. McDONALD — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER 20372

EXPIRES 05/30/99

REV NO.	DESCRIPTION	REV BY DATE
3	REVISED PER ECN 652477 AND 627888	ELM 1/00
2	376, 388 INCORPORATED ECN W058-366, W-058 PROJECT TURNOVER	HBM 3-11 1998

CAD FILE B822503A — CAD CODE 2JHBM:ACD2:12.0:NN

DESIGNED GJ KUBINSKI
DRWN ENGR ML ALEXANDER 8-8 1996
CHECKED CE CARLSON 8-8 1996
SAFETY SEE DR/AT FORM
ENVIR SEE DR/AT FORM
QUAL ENGR SEE DR/AT FORM
LEAD ENGR ML ALEXANDER 8-4 1996
REVIEW NO. 2
APPROVED FOR IMPLEMENTATION BY C VAN KATWIJK FOR WHC DATE 5-28-96

USE CONSTRUCTION — EDT 618496 — SAFETY CLASS 3

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
ICF KAISER HANFORD COMPANY

ELECTRICAL
WIRE RUN LIST

PROJECT W058, REPLACEMENT OF CROSS-SITE TRANSFER SYSTEM
SIZE F — BLDG NO. 200-G — INDEX NO. 7305 7505 — DWG NO. H-2-822503 — REV NO. 3
SCALE NONE — JOB NO. CR9766 — SHEET 1 OF 1

PLOT SCALE: 1=1 — KEHCAD