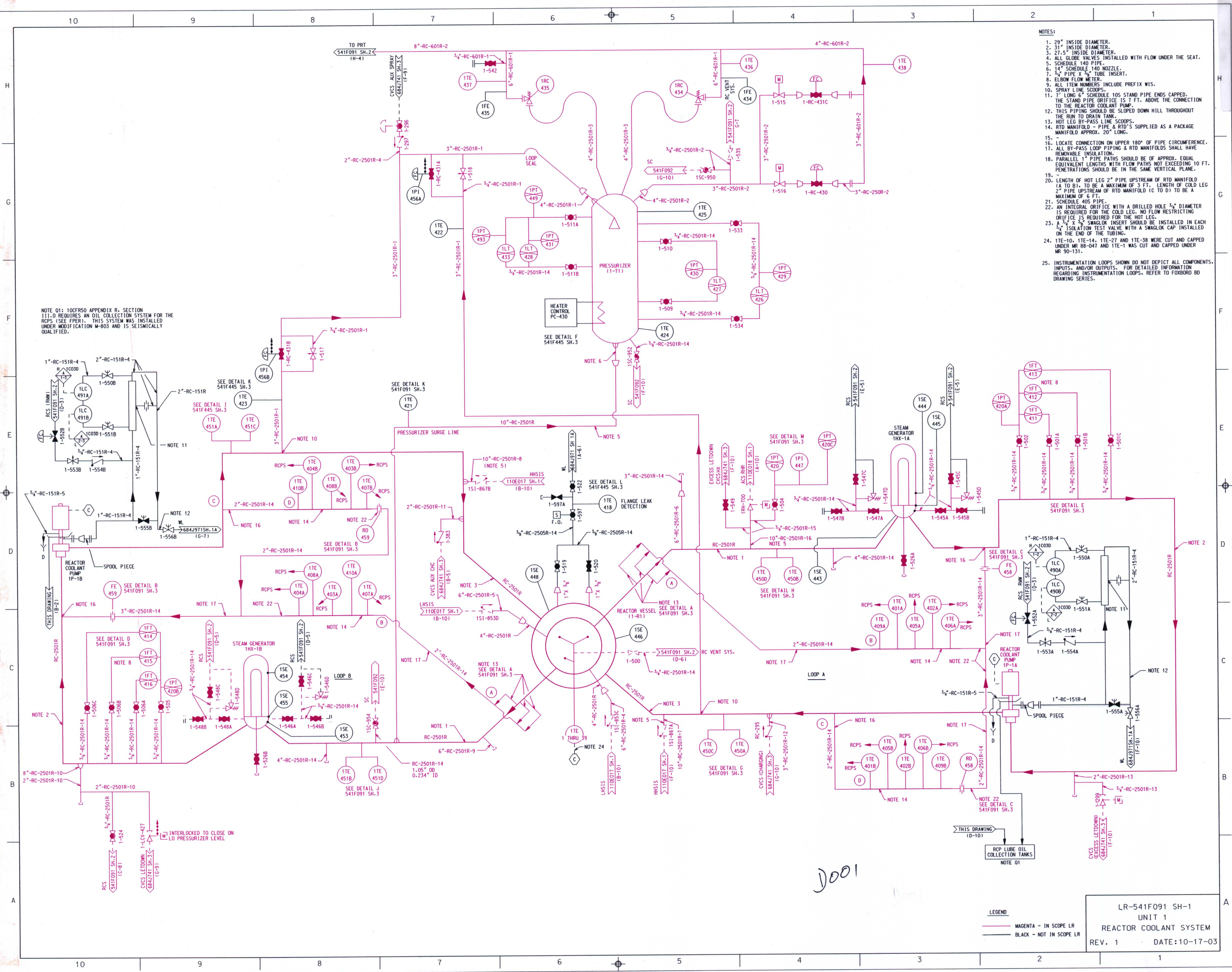




- NOTES:
- 29" INSIDE DIAMETER.
 - 31" INSIDE DIAMETER.
 - 27.5" INSIDE DIAMETER.
 - ALL GLOBE VALVES INSTALLED WITH FLOW UNDER THE SEAT.
 - SCHEDULE 140 PIPE.
 - 14" SCHEDULE 140 NOZZLE.
 - 3/4" PIPE X 3/4" TUBE INSERT.
 - ELBOW FLOW METER.
 - ALL ITEM NUMBERS INCLUDE PREFIX WIS.
 - SPRAY LINE SCOOPS.
 - 7' LONG 6" SCHEDULE 10S STAND PIPE ENDS CAPPED. THE STAND PIPE ORIFICE IS 7' FT. ABOVE THE CONNECTION TO THE REACTOR COOLANT PUMP.
 - THIS PIPING SHOULD BE SLOPED DOWN HILL THROUGHOUT THE RUN TO DRAIN TANK.
 - HOT LEG BY-PASS LINE SCOOPS.
 - RTD MANIFOLD - PIPE & RTD'S SUPPLIED AS A PACKAGE MANIFOLD APPROX. 20" LONG.
 - LOCATE CONNECTION ON UPPER 180° OF PIPE CIRCUMFERENCE.
 - ALL BY-PASS LOOP PIPING & RTD MANIFOLDS SHALL HAVE REMOVABLE INSULATION.
 - PARALLEL 1" PIPE PATHS SHOULD BE OF APPROX. EQUAL EQUIVALENT LENGTHS WITH FLOW PATHS NOT EXCEEDING 10 FT. PENETRATIONS SHOULD BE IN THE SAME VERTICAL PLANE.
 - LENGTH OF HOT LEG 2" PIPE UPSTREAM OF RTD MANIFOLD (A TO B), TO BE A MAXIMUM OF 3 FT. LENGTH OF COLD LEG 2" PIPE UPSTREAM OF RTD MANIFOLD (C TO D) TO BE A MAXIMUM OF 6 FT.
 - SCHEDULE 40S PIPE.
 - AN INTEGRAL ORIFICE WITH A DRILLED HOLE 3/4" DIAMETER IS REQUIRED FOR THE COLD LEG. NO FLOW RESTRICTING ORIFICE IS REQUIRED FOR THE HOT LEG.
 - A 3/4" X 3/4" SWAGLOK INSERT SHOULD BE INSTALLED IN EACH 3/4" ISOLATION TEST VALVE WITH A SWAGLOK CAP INSTALLED ON THE END OF THE TUBING.
 - 1TE-10, 1TE-14, 1TE-27 AND 1TE-38 WERE CUT AND CAPPED UNDER MR 88-047 AND 1TE-1 WAS CUT AND CAPPED UNDER MR 90-131.
 - INSTRUMENTATION LOOPS SHOWN DO NOT DEPICT ALL COMPONENTS, INPUTS, AND/OR OUTPUTS. FOR DETAILED INFORMATION REGARDING INSTRUMENTATION LOOPS, REFER TO FOXBORO BD DRAWING SERIES.

NOTE 01: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 02: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 03: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 04: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 05: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 06: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 07: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 08: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 09: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 10: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 11: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

NOTE 12: 10CFR50 APPENDIX R, SECTION 111.0 REQUIRES AN OIL COLLECTION SYSTEM FOR THE RCS (SEE FPER). THIS SYSTEM WAS INSTALLED UNDER MODIFICATION M-803 AND IS SEISMICALLY QUALIFIED.

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LEGEND
MAGENTA - IN SCOPE LR
BLACK - NOT IN SCOPE LR

LR-541F091 SH-1
UNIT 1
REACTOR COOLANT SYSTEM
REV. 1 DATE: 10-17-03