KLAMATH ENERGY
4940 HIGHWAY 97 SOUTH
KLAMATH FALLS, OR 97603

FIRE ALARM/DETECTION &
FIRE SUPPRESSION UPGRADES
STREAM TUNNEL GENERATOR PLAN - OPERATING FLOOR
PIPING NOTE:

1. All pipe lengths are center-to-center. We do not account for fitting diameter dimensions.

2. Due to possible grounding in the field, all pipe lengths and pipe routing refer to be field verified.

3. All ventilation piping from the sump tank's to the next floor(s), shall be Schedule 40 A-L or A-3, seamless or schedule all A-4000, A-108 or A-63, seamless or rolled ground. 8" pipe fittings shall be used.

4. All ventilation piping from the outlet of the condenser panel, shall be Schedule 40 A-L or A-3, seamless. 8" pipe fittings shall be used.

5. All water piping from the pump to the cold water tank shall be 3/4" Schedule 40 A-L or A-3, seamless. 3/4" pipe fittings shall be used.

6. All water piping from the hot water tank to the outlet of the condenser panel shall be 3/4" in diameter. Water piping from a 3/4" Schedule 40 A-L or A-3, seamless, 3/4" pipe fittings shall be used.

7. Water piping shall be all 70" mesh piping from the condenser panel to the air handling unit.

8. 1/2" Nominal sheet metal ducting of a 3/4" nipple connection.

9. Groundwater shall be piped down to the building.

10. Slope water pipe 1/4" per ft back to condenser panel.

11. Pipe routing is approximate and must be field modified by installing contractor prior to fabrication.

12. Compensate between the flow device and the condenser panel. Use an adjustable compensator.

13. All pipe within turbine enclosure is extended fittings only. Groundwater fittings shall be used.

VORTEX CALCULATIONS

TURBINE ENCLOSURE VOLUME: 31,875 CUBIC FT.
NUMBER OF EMITTERS: 10
AMOUNT OF WATER DISCHARGED: 7000 GALLON FEET
AMOUNT OF WATER DISCHARGED: 10 GALLONS DISCHARGE EMERGENCY: 10 MINUTES.

CT101 & CT201 TURBINE ENCLOSURE INITIAL DISCHARGE PIPING

VORTEX CALCULATIONS

TURBINE ENCLOSURE VOLUME: 31,875 CUBIC FT.
NUMBER OF EMITTERS: 10
AMOUNT OF WATER DISCHARGED: 7000 GALLON FEET
AMOUNT OF WATER DISCHARGED: 10 GALLONS DISCHARGE EMERGENCY: 10 MINUTES.

CT101 & CT201 TURBINE ENCLOSURE EXTENDED DISCHARGE PIPING