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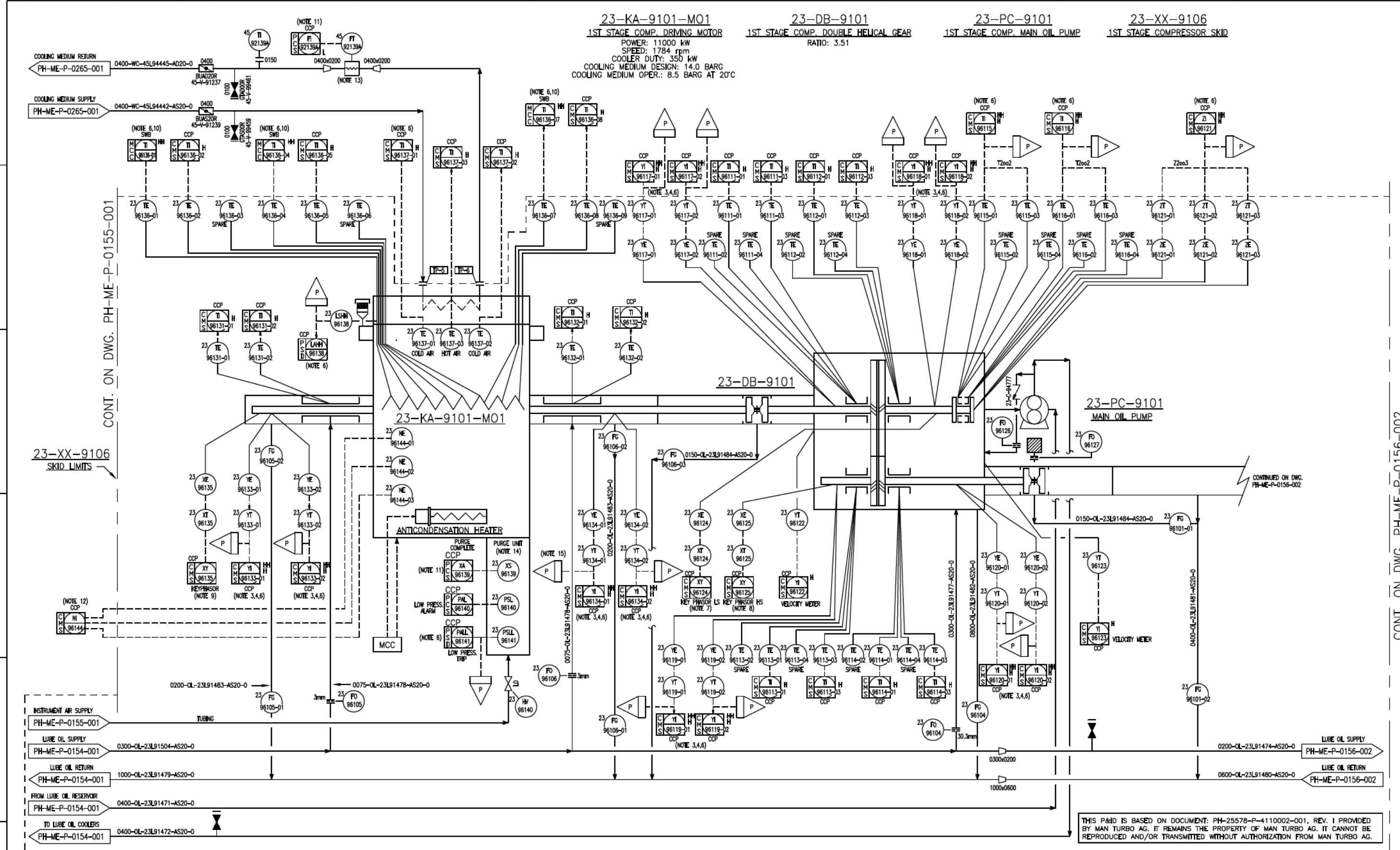
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- NOTES:**
1. ALL TUBING AND FITTINGS TO BE GND.
 2. ALL SIGNALS INDICATED AS MONITOR DISPLAY IN THE CONTROL UNIT WILL ALSO BE DISPLAYED IN THE MONITOR DISPLAY IN THE DCS (SAS-HM).
 3. TRIP ON VIBRATION ONLY IF ONE PROBE REACHES TRIP AND THE SECOND PROBE ALARM VALUE.
 4. SYSTEM MONITORING INCLUDING VOTING LOGIC (WHERE APPLICABLE) PERFORMED IN COMPRESSOR UCP NOLL VIBRATION AND TEMPERATURE MONITORING INCLUDING SHUTDOWN VOTING PERFORMED IN UCP CONDITION MONITORING SYSTEM (CNA, REMAINING SHUTDOWN FUNCTIONS PERFORMED IN UCP PSD).
 5. CNA SIGNALS TRANSFERRED TO PCS VIA MODBUS.
 6. TRIP V/O BLUDDOVAL.
 7. REFERENCE FOR LOW SPEED VIBRATION SIGNAL.
 8. REFERENCE FOR HIGH SPEED.
 9. KEY PHASOR REFERENCE FOR MOTOR VIBRATION SIGNAL.
 10. SHUTDOWN INITIATED BY MOTOR ELECTRICAL PROTECTION SIGNAL.
 11. STARTUP INTERLOCKING SYSTEM.
 12. PARTIAL DISCHARGE (INSULATION) SENSORS BY VENDOR.
 13. ELECTROMAGNETIC FLOWMETER DOWNSTREAM OF CONCENTRIC REDUCER. PROVIDE STRAIGHT RUN 10' UPSTREAM AND 10' DOWNSTREAM.
 14. FOR PURGE UNIT DETAILS REFER TO PH-ME-P-0100-001 AND PH-ME-P-0108-002.
 15. PURGE UNIT OUTLET LINE WITH SPARK ARRESTOR.

REV	DATE	BY	DESCRIPTION	CHK	ENGR	APPR	CLIENT
1	11.07.13	AS BUILT					

Wood Group Engineering (North Sea) Ltd.

MUSTANG INTERNATIONAL, LP
HOUSTON, TEXAS

PROJECT NO. 10910

VALHALL
RE-DEVELOPMENT PROJECT
PIPING & INSTRUMENT DIAGRAM
1ST STAGE COMP. TEMP. & VIBRATION MONITORING

REGISTRATION CODES: T 23 XB

DRAWING NO. PH ME P 0156 001

SCALE: NONE