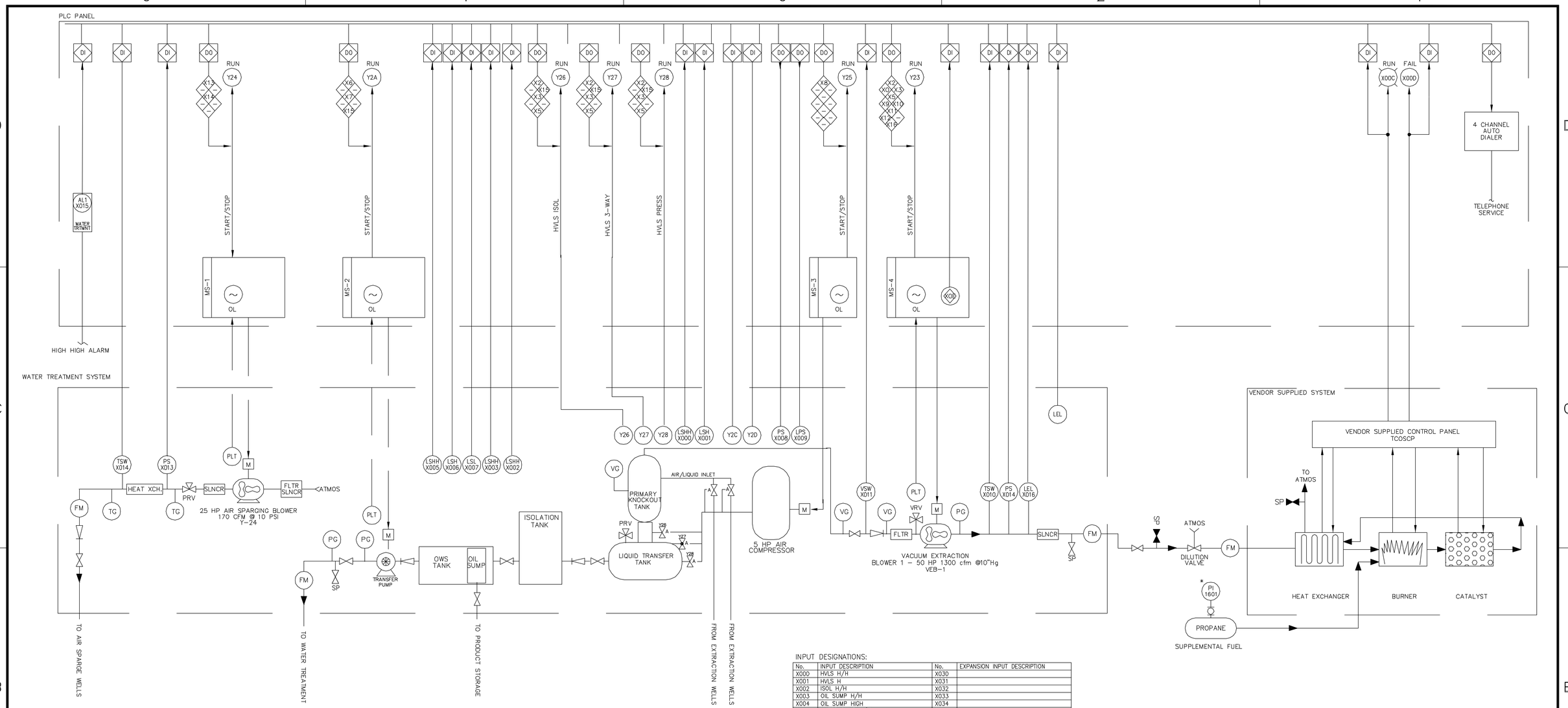


INPUT DESIGNATIONS:

| No. | INPUT DESCRIPTION | No. | EXPANSION INPUT DESCRIPTION |
|---|---|---|---|
| X000 | HVLS H/H | X030 | |
| X001 | HVLS H | X031 | |
| X002 | ISOL H/H | X032 | |
| X003 | OIL SUMP H/H | X033 | |
| X004 | OIL SUMP HIGH | X034 | |
| X005 | WATER SUMP H/H | X035 | |
| X006 | WATER SUMP H | X036 | |
| X007 | WATER SUMP LOW | X037 | |
| X008 | COMP PRESS SWITCH | X038 | |
| X009 | COMP LOW PRESS SWITCH | X039 | |
| X00A | ROOM THERMOSTAT | X03A | |
| X00B | RESET | X03B | |
| X00C | OXIDIZER RUN | X03C | |
| X00D | OXIDIZER FAIL | X03D | |
| X00E | *SPARE | X03E | |
| X00F | LOBE LEL | X03F | |
| X010 | LOBE TEMP | | |
| X011 | LOBE VAC | | |
| X012 | LOBE PRESSURE | | |
| X013 | LOBE #2 PRESSURE | | |
| X014 | LOBE #2 TEMP | | |
| X015 | LEL ALARM | | |
| X016 | WATER TREATMENT ALARM | | |
| X017 | *SPARE | | |

OUTPUT DESIGNATIONS:

| No. | OUTPUT DESCRIPTION | No. | EXPANSION INPUT DESCRIPTION |
|---|---|---|---|
| Y-20 | *SPARE | 000D | |
| Y-21 | *SPARE | 0001 | |
| Y-22 | *SPARE | 0002 | |
| Y-23 | VAC PUMP | 0003 | |
| Y-24 | PRESSURE PUMP | 0004 | |
| Y-25 | COMP | 0005 | |
| Y-26 | HVLS ISOL | 0006 | |
| Y-27 | HVLS 3 WAY | 0007 | |
| Y-28 | HVLS PRESS | 000B | |
| Y-29 | *SPARE | 0009 | |
| Y-2A | WATER TRANSFER PUMP | 000A | |
| Y-2B | DAMPER | 000B | |
| Y-2C | MNIFOLD 1 | 000C | |
| Y-2D | MANIFOLD 2 | 000D | |
| Y-2E | MANIFOLD 3 | 000E | |
| Y-2F | *SPARE | 000F | |

ANALOG INPUTS

| No. | DESCRIPTION | 4-20 Ma REFERENCE | INPUT/OUTPUT |
|---|---|---|---|
| 301 | | 4-20 Ma | INPUT |
| 302 | | 4-20 Ma | INPUT |
| 303 | | 4-20 Ma | INPUT |
| 304 | | 4-20 Ma | INPUT |
| 305 | | 4-20 Ma | INPUT |
| 306 | | 4-20 Ma | INPUT |

NOTES

1. REFER TO IO LIST FOR DESIGNATIONS
2. OWNER DEFINED ALARMS DURING CONSTRUCTION. CONTRACTOR PROGRAMED PLC AND AUTODIALER ACCORDINGLY.
3. ALL ALARMS ARE INDIVIDUALLY DISPLAYED ON THE CONTROL PANEL
4. GENERAL CONTROL FUNCTIONS ARE VIA THE PROGRAMMABLE LOGIC CONTROLLER. PROTECTIVE INTERLOCKS FOR CRITICAL EQUIPMENT ARE VIA HARD WIRED RELAYS

| | | | |
|---|---|---|---|
| PG | PRESSURE GAUGE | TSW | TEMP SWITCH |
| VG | VACUUM GAUGE | PS | PRESSURE SWITCH |
| PLT | HAND SWITCH | VSW | VACUUM SWITCH |
| LSHH | LEVEL SWITCH HIGH HIGH | LEL | LOWER EXPLOSIVE LIMITS SENSOR |
| LSH | LEVEL SWITCH HIGH | SP | SAMPLE PORT |
| LSL | LEVEL SWITCH LOW | | REGULATING VALVE |
| TG | TEMPERATURE GAUGE | | CHECK VALVE |
| FM | FLOW METER | | PRESSURE/VACUUM RELIEF VAVLE |
| M | MOTOR | | 3-WAY VALVE |

FINAL AS-BUILT

US Army Corps of Engineers

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS
BALTIMORE, MARYLAND

SOURCE AREA REMEDIAL SYSTEM
GASOLINE ALLEY AREAS 3805 & 1995
FORT DRUM, NEW YORK

AREA 3805
SYSTEM B PIPING AND
INSTRUMENTATION DIAGRAM

EA ENGINEERING, P.C.

DRAWING NUMBER: N/A

PLATE: M-6

SCALE: AS NOTED | DATE: SEPT. 2004 | SHEET 6

FILE: Syracuse_fp/Syracuse/Working Projects\Fort Drum Projects\MARC\Design\drawings from lovton\final design drawings\M-6.dwg [Layout1]