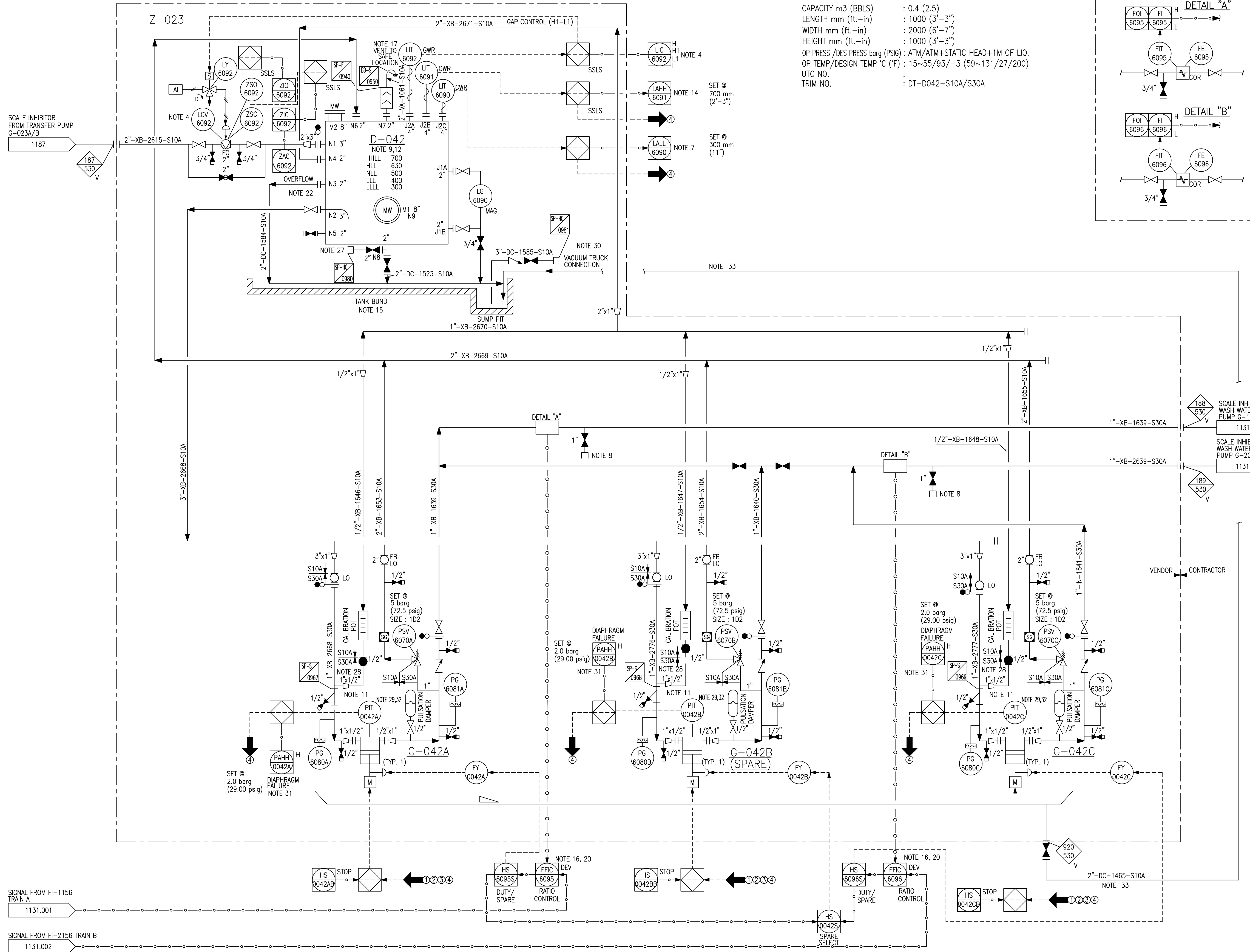
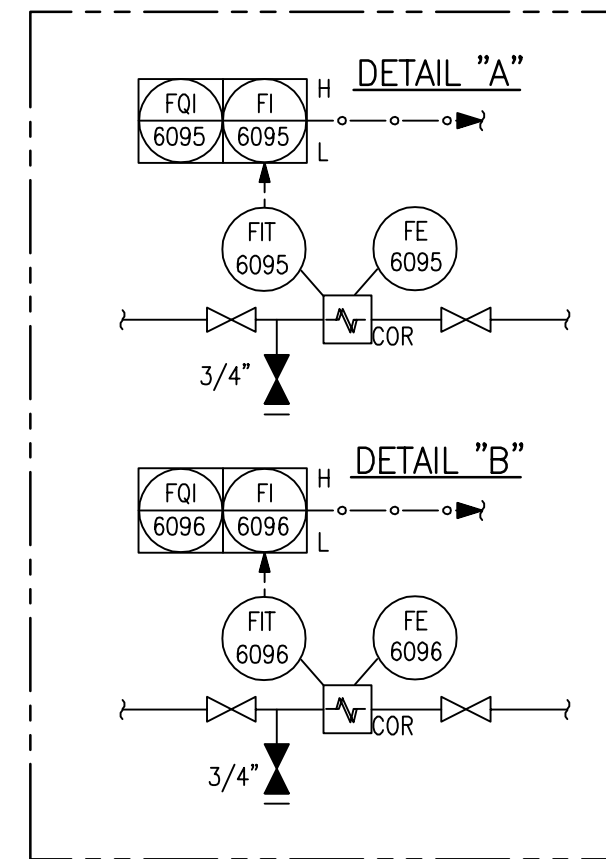


Z-023  
CHEMICAL INJECTION SKID



D-042  
SCALE INHIBITOR DAY TANK  
CAPACITY m3 (BBLs) : 0.4 (2.5)  
LENGTH mm (ft.-in) : 1000 (3'-3")  
WIDTH mm (ft.-in) : 2000 (6'-7")  
HEIGHT mm (ft.-in) : 1000 (3'-3")  
OP PRESS /DES PRESS barg (PSIG) : ATM/ATM+STATIC HEAD+1M OF LIQ.  
OP TEMP/DESIGN TEMP °C (°F) : 15~55/93/~3 (59~131/27/200)  
UTC NO. :  
TRIM NO. : DT-D042-S10A/S30A



- GENERAL NOTES:
- FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
  - ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 530-.
  - ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030-.
  - FOR TYPICAL INSTRUMENT CONNECTION SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1108.001, .002, .003, .004, .005, .006 & .007.
  - FOR MISCELLANEOUS PIPING TYPICAL VALVING, DRAINAGE & GENERAL ARRANGEMENT OF LEVEL INSTRUMENTS, PUMPS, STRAINERS & CONTROL VALVES SEE DRAWINGS 50489-530-020-PID-1108.001 TO 1108.010.
  - DRAWING NUMBERS SHOWN IN P&ID CONTINUATION BOXES ARE ABBREVIATED SHOWING DRAWING SEQUENTIAL NUMBERS ONLY. THE FULL FORM OF THE DRAWING NUMBER IS 50489-530-020-PID-XXXX.SHT.NO.
  - FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
  - DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
  - PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
  - LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
  - FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
  - FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

- NOTES:
- DELETED.
  - AUTOMATIC VARIABLE PUMP STROKE ADJUSTMENT IS THROUGH DCS.
  - DELETED.
  - VALVE CLOSURES AT HIGH LIQUID LEVEL H1 (SET@ 610MM), VALVE OPENS AT LOW LIQUID LEVEL L1 (SET@ 410MM). ZSC OF LCV-6068, LCV-6063, LCV-6092 & LCV-6104 STOPS DUTY & STANDBY TRANSFER PUMP G-023A/B BY SSLS LOGIC.
  - DELETED.
  - LOW LIQUID LEVEL STOPS SCALE INHIBITOR INJECTION PUMPS, G-042A/B/C.
  - FLUSHING CONNECTIONS.
  - SCALE INHIBITOR DAY TANK COMES UNDER BUND AREA & SCALE INHIBITOR INJECTION PUMP IS PART OF PUMP SKID.
  - EYEWASH AND SAFETY SHOWERS ARE PROVIDED IN THE CHEMICAL INJECTION SKID AREA.
  - PROVIDE CORIOLIS FLOW MEASUREMENT AND FACILITY FOR LOCAL CALIBRATION.
  - TANK LEVEL INSTRUMENTS ARE CALIBRATED IN VOLUMETRIC UNITS.
  - DELETED.
  - HIGH HIGH LIQUID LEVEL STOPS SCALE INHIBITOR TRANSFER PUMP G-023A/B.
  - TANK BUND NOT IN VENDOR SCOPE. TANK CO.RETE BUND SHALL BE 115% CONTAINMENT OF D-042.
  - DEVIATION ALARMS ARE TO BE CONFIGURED IN THE DCS TO ALARM IF ACTUAL FLOW DIFFERS FROM SET BY 10%.
  - FLAME ARRESTOR INSTALLED WITH GOOSE NECK PIPE FOR VENT.
  - DELETED.
  - MINIMUM STROKE OF 10% IS PROVIDED FOR ALL CHEMICAL INJECTION PUMP.
  - CHEMICAL INJECTION RATIO CONTROLLER IS SET IN PPM.
  - ANTI-RESISTANT CHEMICAL FLOOR IS PROVIDED.
  - OVERFLOW NOZZLE IS LOCATED ABOVE HLL.
  - TANK AREA ARE PAVED. FLOOR IS SLOPED TOWARDS SUMP PIT.
  - VENT TO SAFE LOCATION ARE AS PER KOC-G-002 ALONG WITH GOOSE NECK & BIRD SCREEN.
  - PROVIDE INDICATION FOR PUMP STROKE IN DCS.
  - (A) LOW POINT DRAIN IS PROVIDED AS APPROPRIATE.  
(B) DELETED.
  - CHEMICAL PUMP/OUT CONNECTION.
  - PUMP SUCTION BALL VALVE & CALIBRATION POT BALL VALVE ARE LOCATED ADJACENT TO ONE ANOTHER FOR MEASURING THE FLOW.
  - PUMPS ARE PROVIDED WITH DIAPHRAGM RUPTURE ALARM (PAHH).
  - VACUUM TRUCK CONNECTION (PIPE & VALVE) : L&T SCOPE.
  - PAHH STOPS WASH WATER SCALE INHIBITOR INJECTION PUMP.
  - DIRECT MOUNTING TO THE PUMP HEAD FOR DETECTING RUPTURE OF DIAPHRAGM.
  - CHEMICAL SKID DRAIN LINE TILL INLINE TEE CONNECTION IS IN L&T SCOPE.
  - MINIMUM STROKE OF 10% IS PROVIDED FOR ALL CHEMICAL INJECTION PUMP.

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01	ISSUED FOR AS-BUILT	BAK/CHS	AKG	SRA	DER	18.08.18
01	ISSUED FOR CONSTRUCTION	BAK/CHS	AKG	SRA	DER	21.12.16
0	ISSUED FOR CONSTRUCTION	HSR/CHS	AKG	SRA	RAK	09.06.16
D	ISSUED FOR CONSTRUCTION	HSR/CHS	AKG	SRA	RAK	08.04.16
C	ISSUED FOR CONSTRUCTION	JSI/ABY	AKG	SRA	RAK	29.10.15
OC	ISSUED FOR CONSTRUCTION	BAK/ABY	AKG	SRA	RAK	03.06.15
B	ISSUED FOR CONSTRUCTION	BAK/VSA	AKG	SRA	RAK	23.02.15
A	ISSUED FOR APPROVAL	PK/ABY	AKG	SRA	RAK	12.12.14

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G-042A/B(SPARE)/C  
WASH WATER SCALE INHIBITOR INJECTION PUMP  
FLOWRATE l/hr (USGPH) : 1.03 (0.27)  
DRIVER POWER KW (HP) : 0.75 (1.0)  
DIFF PRESS ΔP bar (PSI) : 3 (43.51)  
S.C. @ OP OT : 1.005~1.165  
FLUID VISCOSITY @ PT CP : 7.2  
OP PRESS/DES PRESS barg (PSIG) : 3/5 (43.51/72.51)  
OP TEMP/DESIGN TEMP °C (°F) : 15~55/93/~3 (59~131/27/200)  
UTC NO. :  
TRIM NO. : GT-G042A/B/C-S30A

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