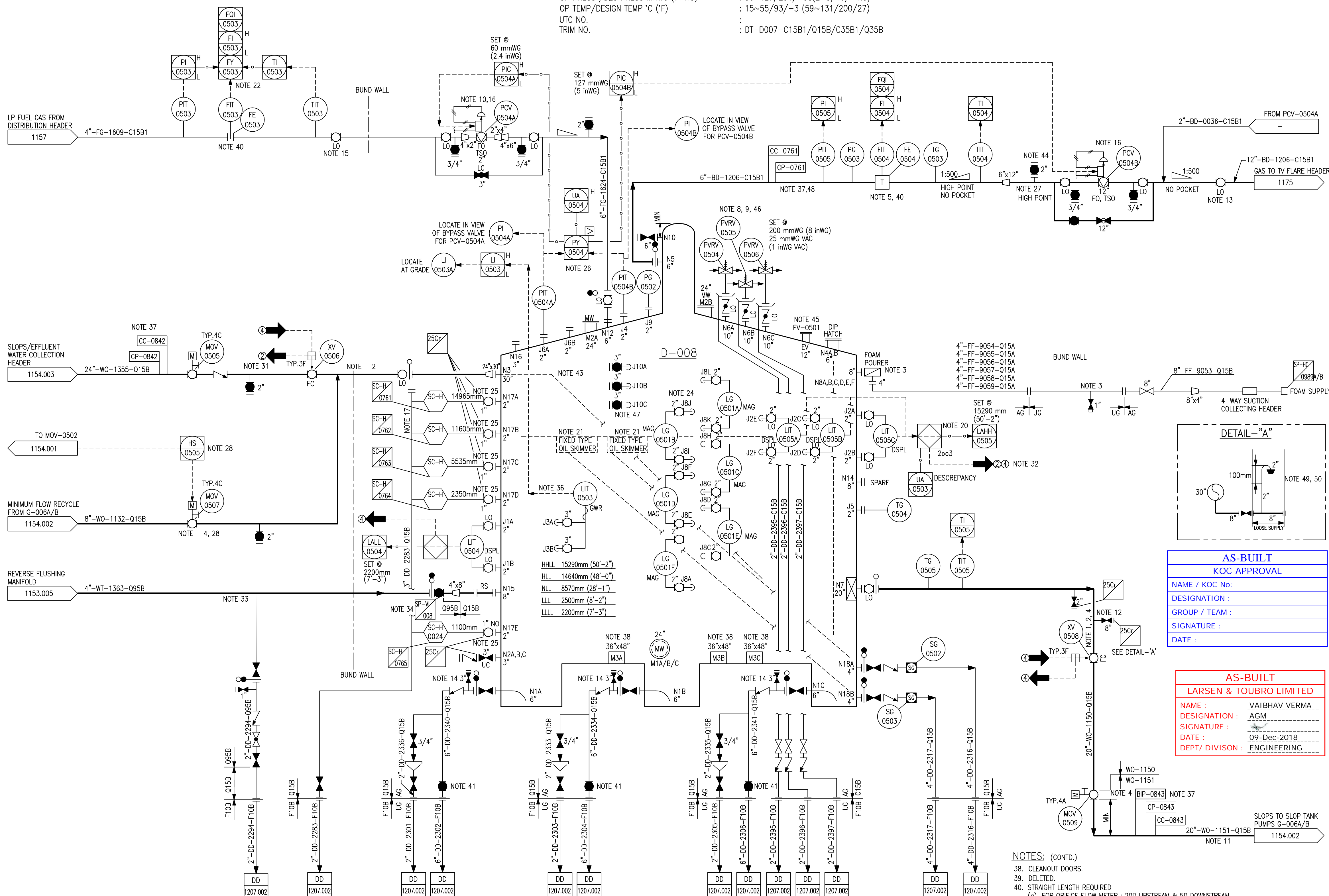


D-008 NOTE 19,23,39
SLOPS TANK

CAPACITY m3 (BBLs) : 37848 (238,064)
ID mm (ft.-in) : 56140 (184'-2")
HEIGHT mm (ft.-in) : 16800 (55'-1")
OP PRESS /DES PRESS MMWG (IN WG) : 50~127/254/-38(2~5/10/-1.5)
OP TEMP/DESIGN TEMP °C (°F) : 15~55/93/-3 (59~131/200/27)
UTC NO. :
TRIM NO. : DT-D007-C15B1/Q15B/C35B1/Q35B



NOTES: (CONTD.)

38. CLEANOUT DOORS.
39. DELETED.
40. STRAIGHT LENGTH REQUIRED
(a) FOR ORIFICE FLOW METER : 20D UPSTREAM & 5D DOWNSTREAM
(b) FOR THERMAL MASS FLOW METER : 10D UPSTREAM & 5D DOWNSTREAM
(c) DELETED.
41. ENSURE THAT LOCATION OF BALL VALVE PROVIDED ON THE DRAIN LINE CLOSE TO THE DIVERTING DRAIN LINE TO THE FUNNEL.
42. DELETED.
43. DISTRIBUTOR PIPE.
44. PURGE CONNECTION IS PROVIDED ON TANK VAPOUR OUTLET LINE.
45. EMERGENCY VENT VALVE, ONE SHALL BE INSTALLED & ONE SHALL BE WAREHOUSE SPARE.
46. ONLY ONE PVRV IS TO BE REMOVED AT A TIME FOR MAINTENANCE/INSPECTION WHEN TANK IS IN SERVICE.
47. J11A/B/C SPARE NOZZLE ELEVATIONS:-
J11A : 300 mm FROM TOP OF THE TANK
J11B : CENTER FROM TOP OF THE TANK & BOTTOM NOZZLE
J11C : 500 mm ABOVE THE BOTTOM OF THE TANK
48. ONE ADDITIONAL INTERNAL CORROSION MONITORING POINT SHALL BE INSTALLED AT THE TOP AT 12'O CLOCK POSITION.
49. VENT LINE SHALL BE EXTENDED TO 100mm ABOVE THE HEADER.
IT WILL BE USED AS VENT DURING MAINTENANCE PURPOSE WHEN TANK ISOLATION VALVE & XV/ESDV WILL BE IN CLOSED POSITION.
SAME ARRANGEMENT WILL BE APPLICABLE FOR TANK D-001/002/003, D-006A/B, D-007/008.
50. 2\"/>

GENERAL NOTES:

- A. FOR STANDARD SYMBOLS AND NOMENCLATURE SEE DRAWINGS 50489-530-020-PID-1104.001 & .002.
- B. ALL EQUIPMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
- C. ALL INSTRUMENT NUMBERS SHOWN ON THIS P&ID ARE PRECEDED BY 030--.
- D. FOR TYPICAL INSTRUMENT CONNECTION, SBDV, XV, MOV & ESDV DETAILS SEE DRAWINGS 50489-530-020-PID-1106.001, .002, .003, .004, .005, .006 & .007.
- E. 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.
- F. 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.
- G. FOR MATERIAL SELECTION DIAGRAM SEE DRAWINGS 50489-530-020-MSD-1001.001 TO 1023.
- H. DETAIL NUMBERING FOR CI, SC, CC & CP SEE DRAWING 50489-530-020-PID-1108.003.
- I. PAINTING & COATING ARE IN ACCORDANCE WITH KOC-P-001.
- J. LOW POINT DRAIN & HIGH POINT VENT ARE INDICATED IN P&ID.
- K. FOR CAUSE & EFFECT REFER DOC. NO. 50489-530-020-PHL-1009.
- L. FOR ALARM VALUES REFER DOC. NO. 50489-530-020-SUM-1006.

NOTES:

1. HYDROCARBON A/G PIPING AND SUPPORT WITHIN TANK BUNDED AREA SHALL BE FIRE PROOFED IN ACCORDANCE WITH PASSIVE FIRE PROTECTION LIST, 50489-530-000-LST-1003.
2. XV's LOCATED OUT SIDE OF THE TANK BUNDED AREA.
3. FOR DETAILS OF FIRE PROTECTION SYSTEM & PIT LOCATION REFER TO DRAWING 50489-530-000-PID-1116 FOAM SYSTEM PID.
4. IF VALVE XV & MOV AT TANK OUTLET IS NOT FULLY OPEN, THE ASSOCIATED PUMP (G-006A/B PID: 1154.002) IS INHIBITED FROM STARTING OR, IF RUNNING STOPPED.
5. THERMAL MASS FLOW METER.
- 6,7,29,30 DELETED.
8. DRIP PAN FOR PVRV PIPED IS CONNECTED TO TANK BASE.
9. PVRV IS N+2 WITH FLAME ARRESTOR & AS PER KOC-MV-007 CL 9.6.
10. CAPACITY OF CONTROL VALVE ARE NOT MORE THAN PVRV OUT BREATHING CAPACITY. 4000 Nm3/hr (3.59 MMSCFD).
11. SUCTION LINE IS SIZED FOR BOTH SLOPS PUMPS OPERATING FROM ONE TANK.
12. MOBILE PUMP CONNECTION.
13. THE ISOLATION VALVE FOR TANK VAPOUR LOCATED NEAR TO TV FLARE HEADER.
14. TANK BOTTOM DRAIN NOZZLE FLUSHING.
15. LOCATE ON THE GROUND.
16. LOCATE ON THE ROOF OF TANK.
17. TRICOCKS ELEVATIONS ARE ALIGNED WITH TANK LEVEL.
- 18,19. DELETED.
20. 2 OUT OF 3 VOTING.
21. TWO FIXED OIL SKIMMERS ARE LOCATED BETWEEN NULL & HLL.
22. FY PROVIDES PRESSURE AND TEMPERATURE COMPENSATION FOR FOI.
23. MAXIMUM CAPACITY TANK BOTTOM TO HHLL.
24. MULTIPLE LEVEL GAUGES ARE PROVIDED TO COVER ALL OPERATING RANGES.
25. FOR SAMPLE NOZZLE DETAIL SEE STANDARD DWG 50489-530-020-PID-1108.001.
26. DEVIATION OF PIT-0504 A/B OUTPUT BY 5% INITIATES ALARM.
27. HIGH POINT VENT TO BE LOCATED ON PIPE.
28. OPERATION OF MOV-0502 (PID:-1154.001) & MOV-0507 ARE INTERLOCKED SUCH THAT
(a) SINGLE TANK OPERATION D-007 - MOV-0502 OPENED & MOV-0507 CLOSED
(b) SINGLE TANK OPERATION D-008 - MOV-0507 OPENED & MOV-0502 CLOSED
(c) PARALLEL TANK OPERATION D-007/D-008 - EITHER MOV-0502 OR MOV-0507 OPENED OR BOTH MOV'S OPENED
31. LEVEL 2 SHUTDOWN INITIATED ONLY WHEN BOTH XV-0501 (PID:-1154.001) & XV-0506 ARE IN CLOSED CONDITION AS THE TANK SHALL NOT BE ABLE TO RECEIVE WATER FROM COLLECTION HEADER. LIMIT SWITCHES FOR XV-0506 & XV-0501 (PID:-1154.001) ARE SIL-2
32. LEVEL 2 SHUTDOWN INITIATED IF BOTH LAHH-0502 (PID:-1154.001) & LAHH-0505 ON D-007/008 ARE HIGH HIGH LEVEL.
33. DRAIN ARE PROVIDED TO NEARBY GRAVITY DRAIN ALONG THE LINE WORK AT EVERY LOW POINT.
34. MECHANICAL INTERLOCK OF EACH INDIVIDUAL DISPOSAL LINE DRAIN VALVES TYPICAL IN LINE NO. 4\"/>
35. DELETED.
36. LIT-0503 COVERS THE WHOLE RANGE OF LEVEL IN THE SLOPS TANK.
(a) CMS ARE INSTALLED AS PER KOC-MP-035.
(b) PROPER ACCESS PIT OR PLATFORM ARE PROVIDED FOR RETRIEVAL OF COUPEN/PROBE.
(c) MATERIAL FOR CMS ARE PROCURED FROM KOC APPROVED VENDOR LIST.
(d) CMS ARE LOCATED IN BOTTOM 6 O'CLOCK POSITION.
(e) TAG NUMBERING OF CMS IS AS PER APPENDIX-C OF KOC-MP-035.

AS-BUILT
KOC APPROVAL

NAME / KOC No:
DESIGNATION :
GROUP / TEAM :
SIGNATURE :
DATE :

AS-BUILT
LARSEN & TOUBRO LIMITED

NAME : VAIBHAV VERMA
DESIGNATION : AGM
SIGNATURE :
DATE : 09-Dec-2018
DEPT/ DIVISION : ENGINEERING

Z2	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	09.12.18
Z1	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	27.09.18
Z0	ISSUED FOR AS-BUILT	BAK/SSI	AKG	SRA	RAK	28.08.18
01	ISSUED FOR CONSTRUCTION	BAK/SSI	AKG	SRA	RAK	02.11.16
0	ISSUED FOR CONSTRUCTION	HSB/VSA	AKG	SRA	RAK	25.03.16
D	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	23.12.15
C	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	14.10.15
OC	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	30.05.15
B	ISSUED INCORPORATED CLIENT COMMENTS	BAK/VSA	AKG	SRA	RAK	19.02.15
A	ISSUED FOR APPROVAL	BAK/VSA	AKG	SRA	RAK	05.12.14
REV.	DESCRIPTION	DRAWN	CHECKED	HOD	PEM	DATE

CONTRACTOR REVISION

KUWAIT OIL CO.
K. S. C.
شركة نفط الكويت
ش.م.ك.
A Subsidiary of Kuwait Petroleum Corporation

CONTRACTOR DETAILS:-
LARSEN & TOUBRO LIMITED
FARIDABAD

PROJECT TITLE:-
NEW GATHERING CENTRE GC-30
IN NORTH KUWAIT

DOCUMENT TITLE:-
PIPING & INSTRUMENTATION DIAGRAM
SLOPS TANK (D-008)

PROJECT NO.	DRAWING NO.	REV.	KOC DRG. NO.	REV.
EF1902	CONTRACTOR DRG. NO.	50489-530-020-PID-1154.004	Z2	
	SHEET NO. 4 OF 4			
	COMPANY DRG. NO.	EF1902-530-DCO-PID-0154.001	A3	
	SHEET NO.			