

81-W-501	81-P-501 A/B/C/D/E/F/G
COOLING TOWER PACKAGE	COOLING Water PUMPS
Normal Water Flow Rate 5000 m ³ /h (Each Cell)	CAPACITY (Normal) 55000/560 m ³ /h
	Max. DIFFERENTIAL PRESSURE 5.44 barg
	NUMBER OF PUMPS 5+2
81-W-503	81-W-504
CORROSION INHIBITOR DOSING PACKAGE	DISPERSANT DOSING PACKAGE

81-W-502
COOLING TOWER FILTRATION PACKAGE

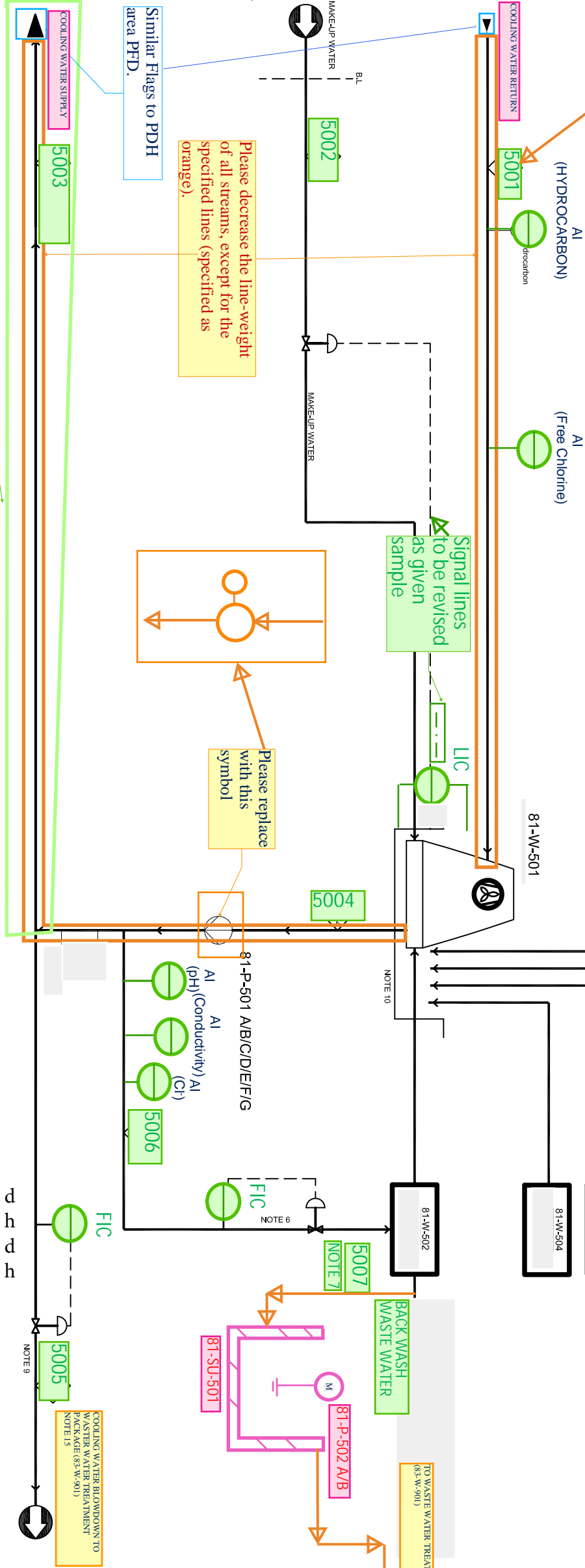
81-W-506
BIOCIDES DOSING PACKAGE

81-W-505
SODIUM CARBONATE DOSING PACKAGE

BACK WASH
WASTE WATER
SUMP PUMP/
81-P-502 A/B

BACK WASH WASTE
WATER SUMP
81-SU-501

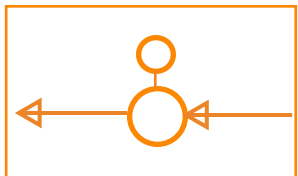
Please delete all old stream
numbers and replace them
with new ones, shown as
below



Stream NO.	5001	5002	5003	5004	5005	5006	5007 (Note 7)
TEMPERATURE, °C	47	25	37	37	37	37	37
PRESSURE, Barg	3.5	5.5	5.5	0.31	5.5	5.5	2
TOTAL MASS FLOW, kg/h	24960575	532430	24960575	26283485	74882	1248029	520
DENSITY, kg/m ³	990.7	1007.5	998.4	998.3	998.4	998.4	998.3
VISCOSITY, cP	0.57	0.89	0.69	0.69	0.69	0.69	0.69

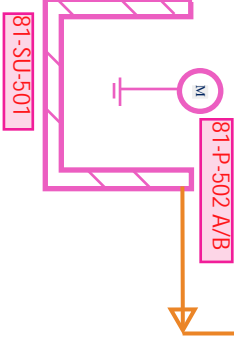
Please move this branch
lower.

Please decrease the line-weight
of all streams, except for the
specified lines (specified as
orange).



Please replace
with this
symbol

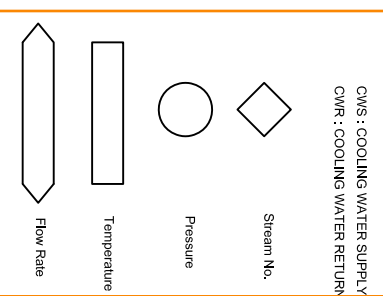
81-P-501 A/B/C/D/E/F/G
AI (pH) (Conductivity) AI
AI (CI)



COOLING WATER BLOWDOWN TO
WASTE WATER TREATMENT
PACKAGE (83-W-901)
NOTE 15

Note :
1. Deleted.
2. Deleted.
3. Deleted.
4. Deleted.
5. 7 ELECTRICAL PUMPS ARE CONSIDERED FOR COOLING WATER PUMPS, 6 DUTY PUMPS + 2 SPARE PUMPS.
6. REQUIRED CONTROL FLOW VALVE SHALL BE CONSIDERED BY FILTRATION PACKAGE VENDOR.
7. SPECIFIC PRESSURE AND BACK WASH FLOW RATE ARE PRELIMINARY AND WILL BE FINALIZED BY VENDOR DURING
CONSTRUCT DETAIL DESIGN. [To be deleted]
8. Deleted.
9. Deleted.
10. 6 cooling tower cells are considered.
11. Deleted.
12. Deleted.
13. Deleted.
14. Deleted.
15. The location of Package 83-W-901 will be checked and finalized during detailed design engineering phase as
per contract.

LEGEND 1



To be deleted.

00	ISSUED FOR COMMENT	18-Dec-2024	M. HASSANI	M. JAMSHIDI	M. JAMSHIDI	SHAFAHATI
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED	
OWNERS		INC:		CONTRACTOR/CONSULTANT:		
PROJECT TITLE:			PROPANE DEHYDROGENATION (PDH) PROJECT			
DOCUMENT TITLE:						
PFD for Cooling Tower System						
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	50	DE	PR	PFD	020
SCALE: 1:100	SIZE: A3	SHEET NO.: 1 OF 1		REVISION: 01		CLASS: 1