



Define Node Details

Node	Type	Design Conditions	Drawing/ Reference	Equip ID	Node Start	Node End	Additional Info
7	Line	6"(10x6) carrying 1200 kg/hr total flow of H ₂ O(150), HC (350) and inerts (700) at 30C and atm pressure	Dwg 3 Rev 1	L-6	T300	C-500	<ul style="list-style-type: none"> •MSDS of product •Material of pipe •Details on C-500 •Pipe arrangement
8	Line	3" carrying 700 kg/hr of inerts from the inert gas generator to tank T-300 at 30C and atm P	Dwg 2 Rev 1	L-5	Inert gas generator	T-300	<ul style="list-style-type: none"> •MSDS of IG •Material of pipe •Details if IG gen •Details of inlet
9	Line	2" carrying 150 kg/hr of H ₂ O from KO drum to tank at 30C and atm pressure	Dwg 2 Rev 0	L-9	KO drum D-700	T-300	<ul style="list-style-type: none"> •Variability of flow of H₂O •Chemical makeup of H₂O •Material of KO drum and line
10	Line	Compressor handling 1050 kg/h of total flow of HC (350) and inerts (700)	Dwg 3 Rev 0	C-500			<ul style="list-style-type: none"> •Specifications of the compressor •Control sequence of compressor
11	Line	6" carrying 1200 kg/hr total flow of H ₂ O(150), HC (350) and inerts (700) at 30C and atm pressure	Dwg 2 Rev 0	L-7	C-500	E-600	<ul style="list-style-type: none"> •Materials of construction
12	HE	Shell and tube heat exchanger to condense water for recycle back to T-300	Dwg 3 Rev 0	E-600			<ul style="list-style-type: none"> •Material of exchanger •Details of design and operation

Define Node Details

Node	Type	Design Conditions	Drawing/ Reference	Equip ID	Node Start	Node End	Additional Info
13	Line	4" carrying 49,700 kg/hr (intermittent flow) of H ₂ O & 300 kg/h of propylene oxide via P-100. T = 40C; P = 210 kpag	Dwg 2 Rev 0	L-1	From P-100 field process drains	T-300	<ul style="list-style-type: none"> •MSDS of product •Material of pipe •Details on P-100 •Details of inlet
14	Line	10" carrying 499,900 kg/hr (intermittent flow) of H ₂ O and 100 kg/h of ethyl benzene via P-200. T = 30C; P = 210 kpag	Dwg 2 Rev 0	L-1	From P-200 field process drains	T-300	<ul style="list-style-type: none"> •MSDS of product •Material of pipe •Details on P-200 •Details of inlet
15	Tank	Atmospheric tank – 100' diam and 40' high. Receives 500,000 kg/h of wastewater from field operations and stores for transfer to treatment in biox unit on intermittent basis based on level	Dwg 2 Rev 0	T-300	Inlet nozzles incl control instrumentation on tank	Discharge nozzles	<ul style="list-style-type: none"> •Reaction of the two products (by products) •Material of tank •Coatings on walls of tank
16	Line	12" x 8" carrying 500,000 kg/hr (intermittent flow) of comingled wastewater containing ethyl benzene and of propylene oxide	Dwg 2 Rev 0	L-3	From field process drains	T-300	<ul style="list-style-type: none"> •MSDS of product •Material of pipe
17	Line	18" Service water header and laterals to cooling service: 6" supply and overflow to the shell and tube heat exchanger (E600) and 1" supply and overflow to the reciprocating compressor (C500)	Dwg 2 Rev 0	L-3	From service water header	CW / SW overflow from E600 and C500	<ul style="list-style-type: none"> •Quality of SW •Material of piping
							64