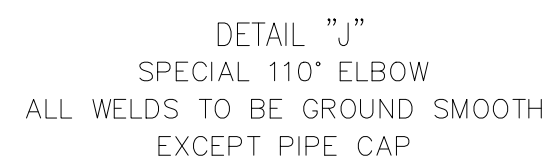


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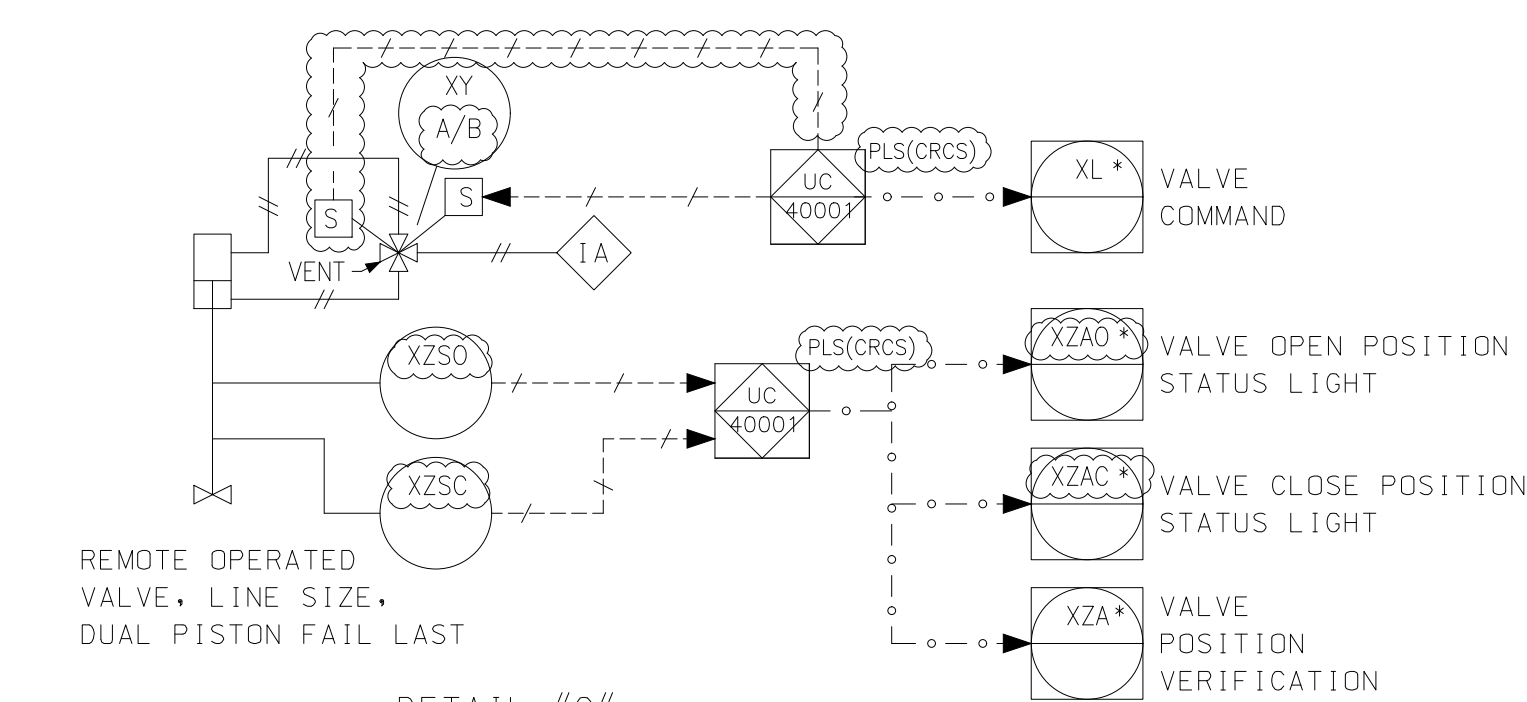
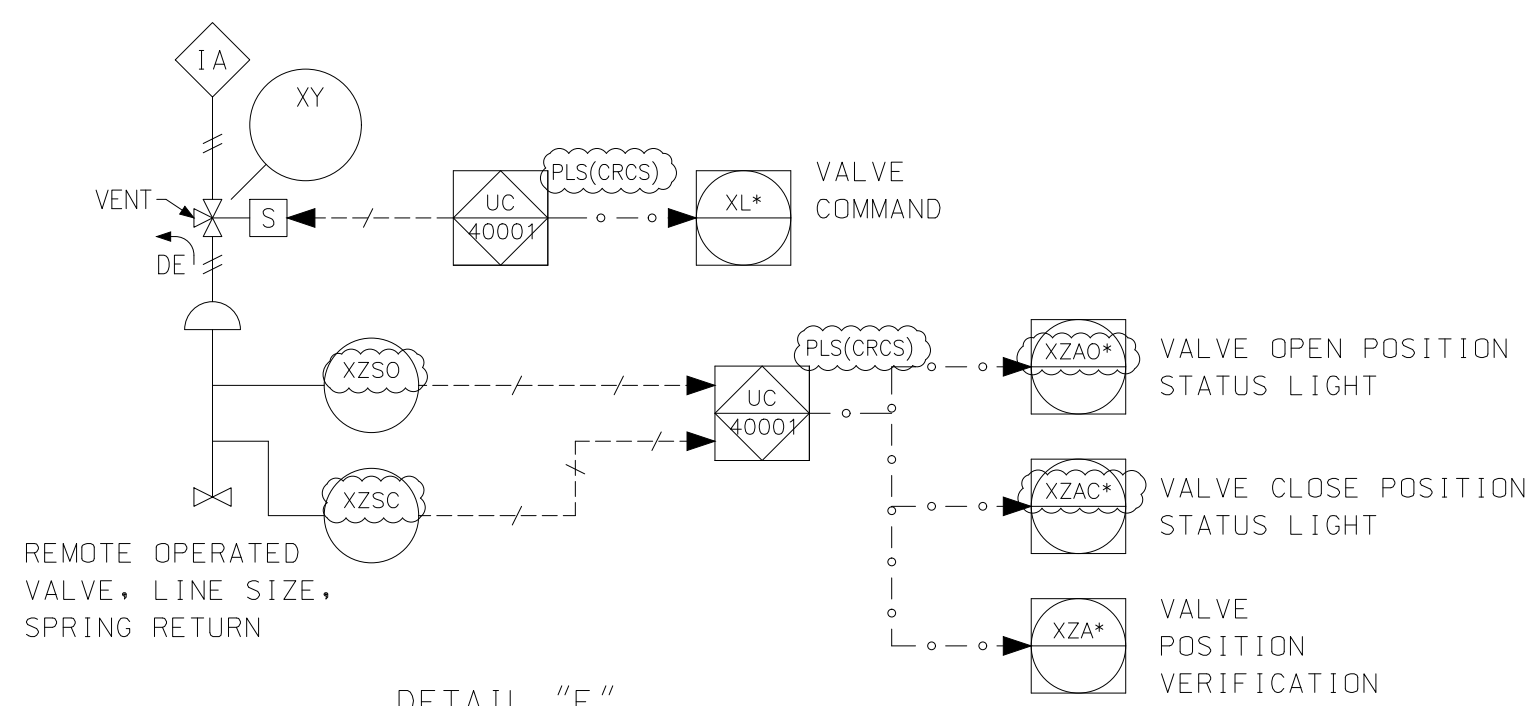
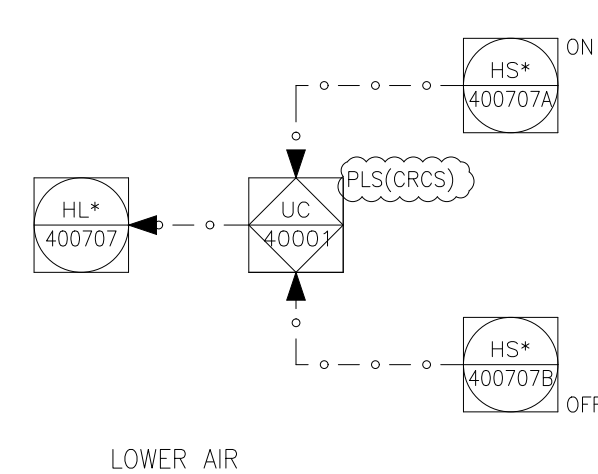
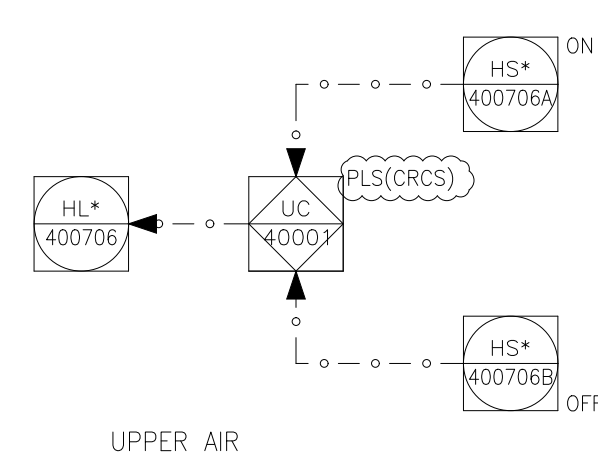
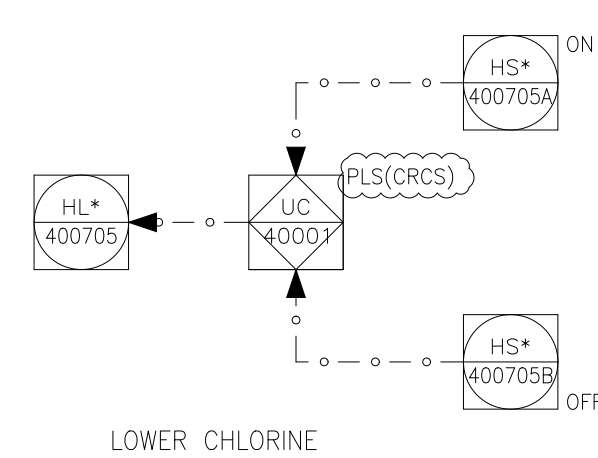
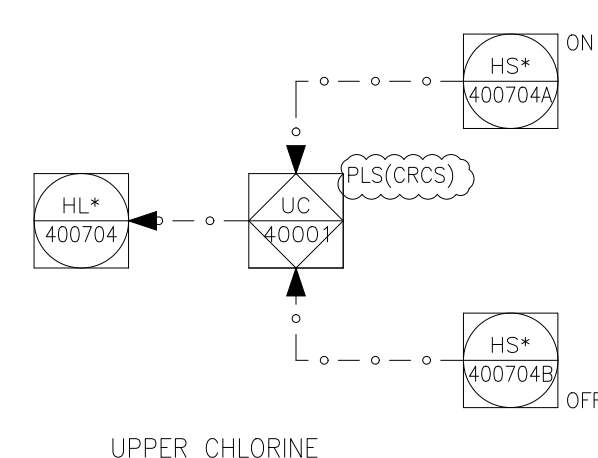
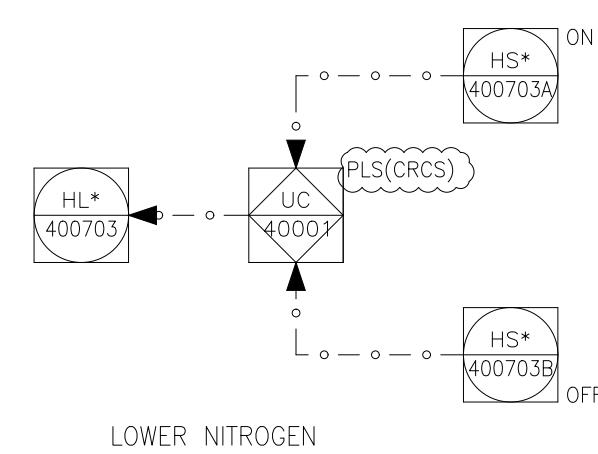
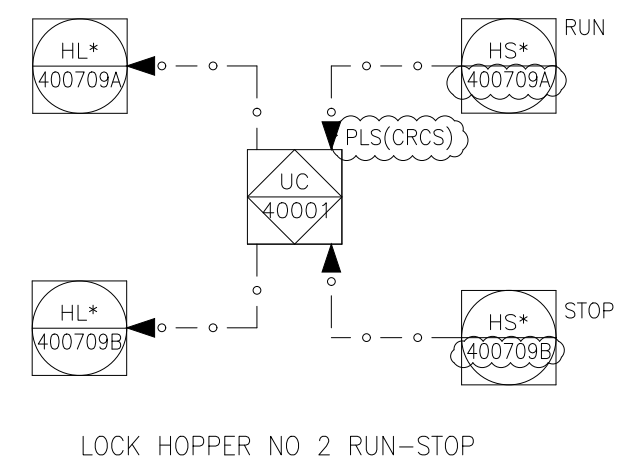
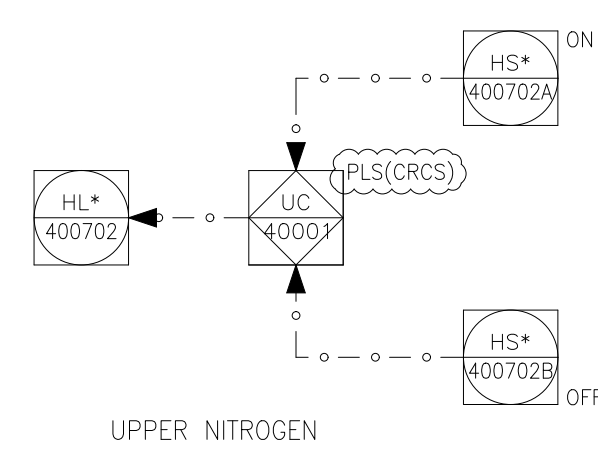
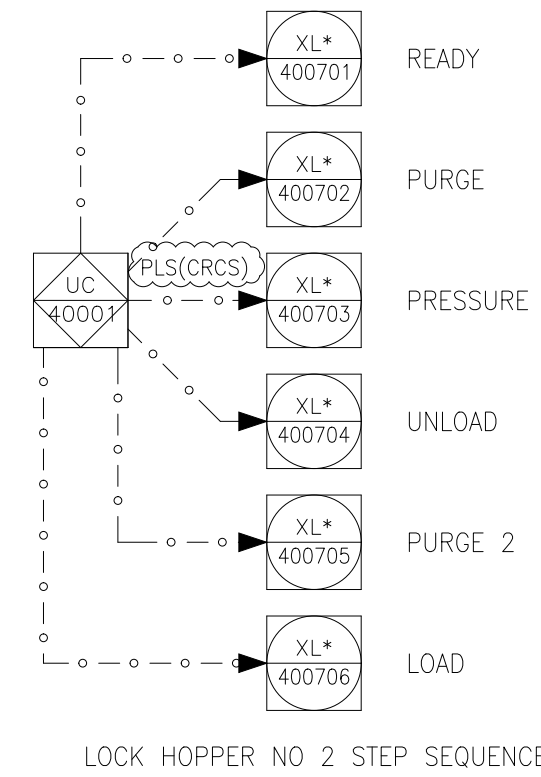
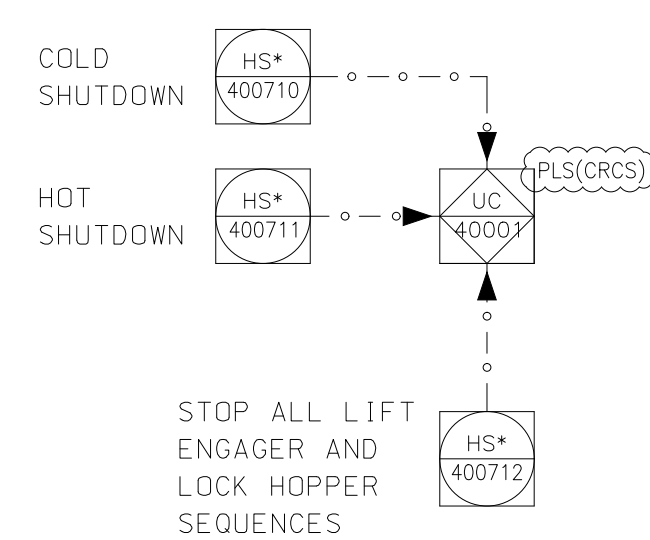
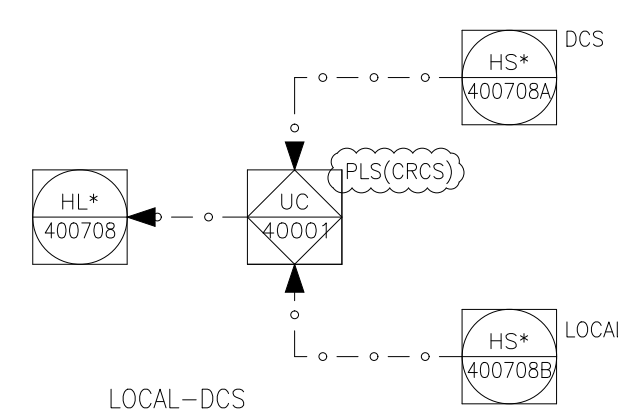
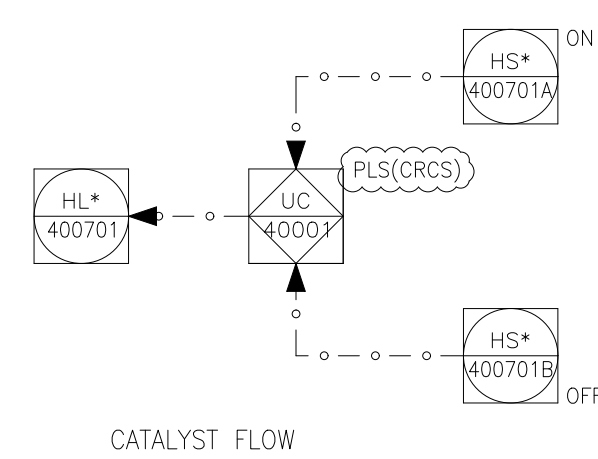
ROW NO.	DWG NO.	TITLE	PUMP	COMPRESSOR	DRUM/TANK	EJECTOR	TOWER	REACTOR	HEATER	H/EX	AIR COOLER	OTHERS	REMARKS
1	3981-40-DE-PR-PID-001	LIST OF P AND I DIAGRAMS AND EQUIPMENT (UNIT 40)											
2	3981-40-DE-PR-PID-006	UNIT SPECIFIC DETAILS AND NOTES FOR REGENERATION AREA OF REGENERATION UNIT											
3	3981-40-DE-PR-PID-007	UNIT SPECIFIC INSTRUMENTATION-1											
4	3981-40-DE-PR-PID-008	UNIT SPECIFIC INSTRUMENTATION-2											
5	3981-40-DE-PR-PID-009	UNIT SPECIFIC INSTRUMENTATION-3											
6	3981-40-DE-PR-PID-010	DISENGAGING HOPPER			81-V-413								
7	3981-40-DE-PR-PID-011	VENT GAS TREATING SYSTEM										81-W-402	
8	3981-40-DE-PR-PID-012	REGENERATION TOWER					81-R-401					81-S-401	
9	3981-40-DE-PR-PID-013	AIR HEATER						81-EH-401					
10	3981-40-DE-PR-PID-014	AIR DRIER				81-J-401						81-W-404	
11	3981-40-DE-PR-PID-015	UPPER REGENERATION HEATER				81-J-402		81-EH-402					
12	3981-40-DE-PR-PID-016	UPPER BURN ZONE EQUIPMENT									81-AE-402	81-F-401 81-F-403	
13	3981-40-DE-PR-PID-017	LOWER REGENERATION HEATER						81-EH-403					
14	3981-40-DE-PR-PID-018	LOWER BURN ZONE EQUIPMENT									81-AE-401 81-AE-403	81-F-402	
15	3981-40-DE-PR-PID-019	SURGE HOPPER			81-V-414 81-V-415 81-V-418 81-V-419								
16	3981-40-DE-PR-PID-020	LIFT ENGAGER NO 5			81-V-416 81-V-417								
17	3981-40-DE-PR-PID-021	VENT DRUMS NO 1 AND 2			81-V-421 81-V-422								
18	3981-40-DE-PR-PID-022	DUST COLLECTOR			81-V-420					81-E-403		81-W-403 81-F-404 81-F-405 A/B	

REFERENCE		DRAWINGS				
NOTES						
HOLDS						
01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD M.JAMSHIDI M.H.ESHRAGHI			
00	ISSUED FOR COMMENT	18-Aug-2025	M.KHERADKAR M.JAMSHIDI M.H.ESHRAGHI			
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE CHECKED APPROVED			
OWNER: 		MC: 	CONTRACTOR/CONSULTANT: 			
PROJECT TITLE:  PROPANE DEHYDROGENATION (PDH) PROJECT						
DOCUMENT TITLE:  PIPING AND INSTRUMENT DIAGRAM List of P and I Diagrams and Equipment(Unit 40)						
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	001
SCALE:		SIZE: A1	SHEET NO: 1 OF 1		REVISION: 01	CLASS: 1

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GENERAL NOTES:

1. FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981--00-DE-PR-PID-045 THRU 3981--00-DE-PR-PID-055
2. EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.
3. FUNCTIONAL IDENTIFICATION OF INSTRUMENT SIGNALS SUFFIXED WITH AN ASTERISK (\*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.
4. HOT SHUTDOWN IS A SHORT SHUTDOWN TIME,NO MORE THAN 36 HOURS OF SHUTDOWN,TO MAINTAIN THE HEAT INPUT OF THE REGENERATION TOWER SHUTDOWN. COLD SHUTDOWN IS A LONG SHUTDOWN TIME,MORE THAN 36 HOURS OF SHUTDOWN,THE REGENERATION TOWER HEAT INPUT GRADUALLY REDUCED UNTIL THE REGENERATION TOWER COOLING DOWN THE SHUTDOWN.

## HOLDS

01	ISSUED FOR APPROVAL	14 – Dec – 2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAGH
00	ISSUED FOR COMMENT	13 – Aug – 2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAGH
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED
OWNER:		MC:	CONTRACTOR/CONSULTANT:		
					

PROJECT TITLE:
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PROPANE DEHYDROGENATION (PDH) PROJECT

DOCUMENT TITLE:

PIPING AND INSTRUMENT DIAGRAM  
Unit Specific Instrumentation-1




DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	007

SCALE:	SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1
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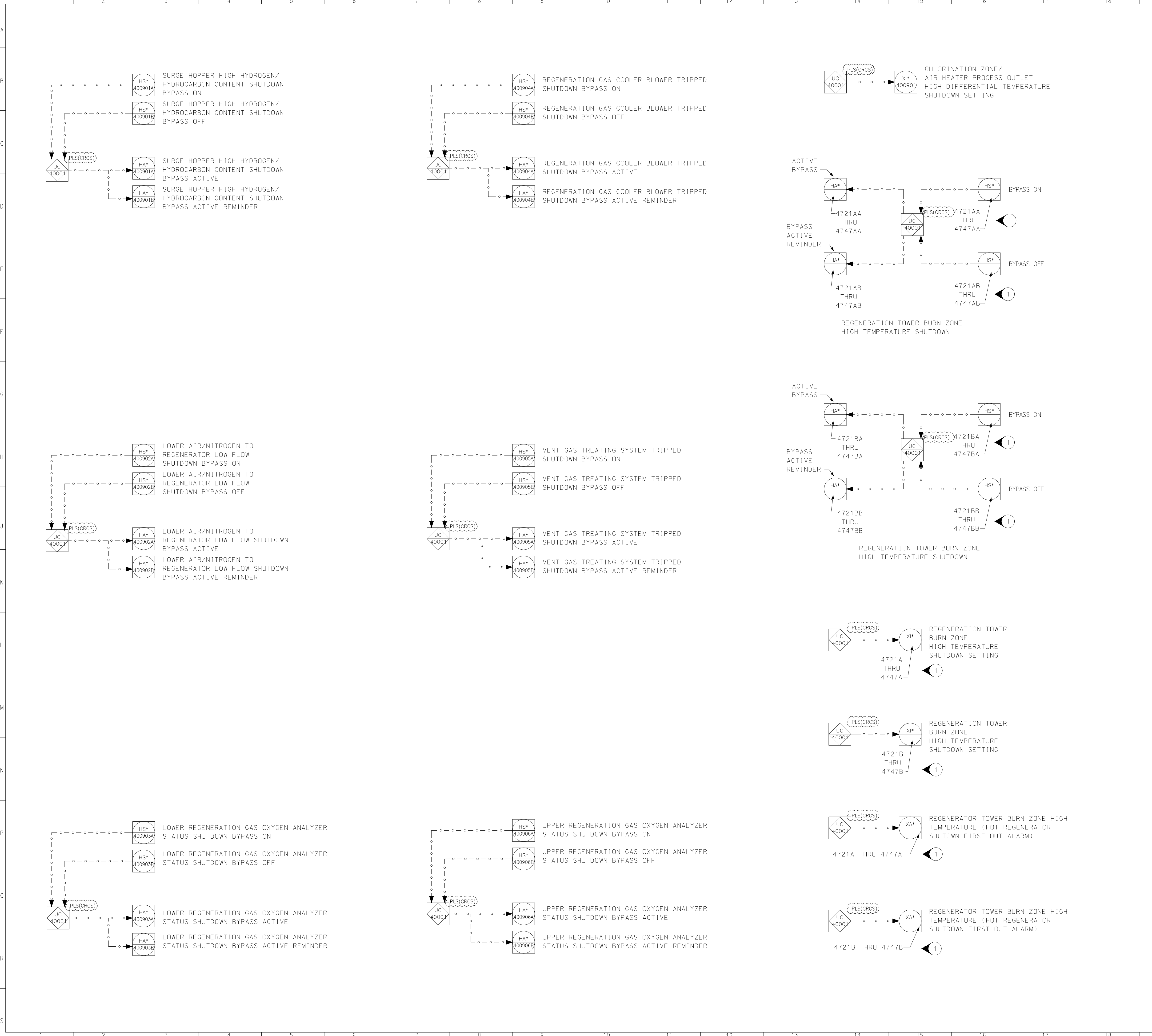




19	20	21	22	A3		
REFERENCE			DRAWINGS			
NOTES						
<p>GENERAL NOTES:</p> <p>1. FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055</p> <p>2. EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.</p> <p>3. FUNCTIONAL IDENTIFICATION OF INSTRUMENT SIGNALS SUFFIXED WITH AN ASTERISK (*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.</p>						
HOLDS						
01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHIRAGHI	
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHIRAGHI	
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED	
OWNER:		MC:	CONTRACTOR/CONSULTANT:			
						
PROJECT TITLE:						
PROPANE DEHYDROGENATION (PDH) PROJECT						
DOCUMENT TITLE:						
PIPING AND INSTRUMENT DIAGRAM Unit Specific Instrumentation-2						
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
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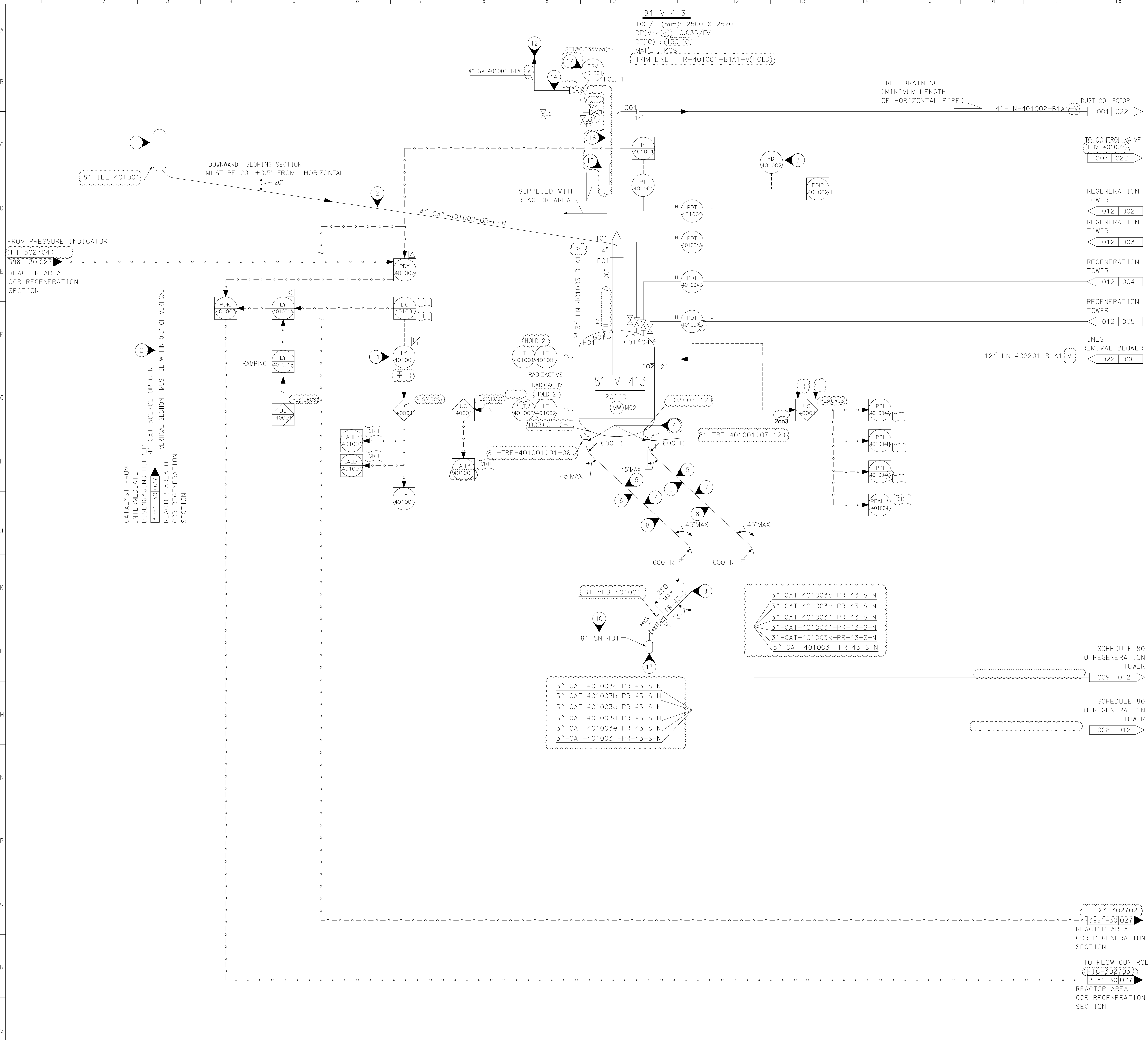
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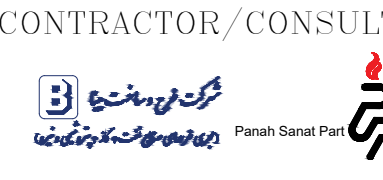




REFERENCE				DRAWINGS		
NOTES						
1. DETAILS INCLUDED IN CRCS MANUAL AND WILL BE PROVIDED BY CRCS VENDOR						

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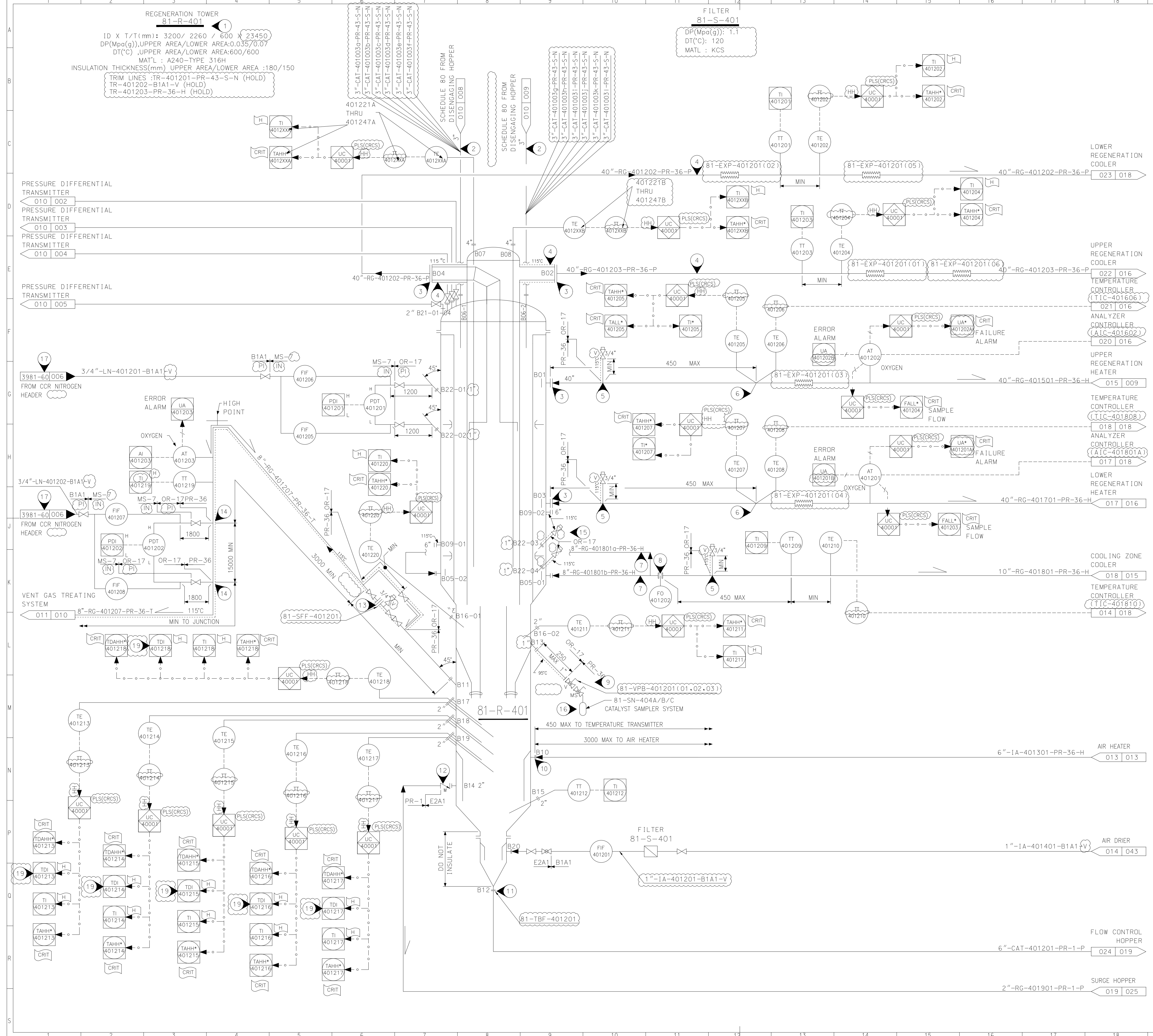


REFERENCE			DRAWINGS		
NOTES					
<div>1. DETAIL "J", SEE DWG 3981-40-DE-PR-PID-006</div> <div>2. THIS PNEUMATIC CATALYST TRANSFER LINE SHALL CONSIST OF ONE HORIZONTAL, ONE VERTICAL AND ONE DOWNWARD SLOPING SECTION (SLOPING IN DIRECTION OF CATALYST FLOW) WITH TWO PIPE BENDS IN THE REACTOR AREA THE TOTAL LENGTH OF THE HORIZONTAL AND DOWNWARD SLOPING SECTION SHALL BE HELD TO A MINIMUM (15000 MAXIMUM PER CATALYST TRANSFER LINE). THIS MINIMUM MAY BE GOVERNED BY PIPING FLEXIBILITY REQUIRED TO ACCOMMODATE STRUCTURAL MOVEMENT AND/OR THERMAL EXPANSION. VERTICAL SECTION MUST BE WITHIN 0.5' OF VERTICAL AND DOWNWARD SLOPING SECTION MUST BE 20 ± 0.5' FROM HORIZONTAL WHEN ALL EQUIPMENT IS AT NORMAL OPERATING TEMPERATURE</div> <div>3. PDI MUST BE READABLE FROM NEEDLE VALVE BYPASSING CONTROL VALVE AT DUST COLLECTOR</div> <div>4. SEE STD DWG 8-130</div> <div>5. PIPING MUST BE SYMMETRICAL</div> <div>6. PROVIDE OFFSET TO ALLOW REMOVAL OF REGENERATION TOWER SCREEN WITH DISENGAGING HOPPER IN PLACE</div> <div>7. LINE SHALL BE STRAIGHT VERTICAL EXCEPT FOR THE OFFSET SHOWN</div> <div>8. TWELVE 3" SCHEDULE 80 CATALYST PIPES</div> <div>9. LOCATE CLOSE ENOUGH TO A FLANGE TO ALLOW GRINDING</div> <div>10. PROVIDE ON ONE CATALYST PIPE ONLY</div> <div>11. PROVIDED BY SUPPLIER OF CATALYST REGENERATION CONTROL SYSTEM</div> <div>12. TO ATMOSPHERE AT SAFE LOCATION</div> <div>13. CATALYST SAMPLER SYSTEM (SEE STD DWG 8-142)</div> <div>14. LOCATE WEEP HOLE AT LOW POINT.</div> <div>15. PILOT OPERATED SAFETY VALVE REMOTE SENSING LINE.</div> <div>16. BY PSV VENDOR.</div> <div>17. PILOT OPERATED SAFETY VALVE.</div>					
GENERAL NOTES:					
<div>1. FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055</div> <div>2. EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.</div> <div>3. FUNCTIONAL IDENTIFICATION OF INSTRUMENT (SIGNALS) SUFFIXED WITH AN ASTERISK (*) ARE INCLUDED IN THE (CATALYST) REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE (CATALYST) REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.</div>					
HOLDS					
<div>1. PSV ORIFICE SIZE, ITS INLET/OUTLET LINE SIZE AND CORRESPONDING VESSEL NOZZLE SIZE.</div> <div>2. COOLING WATER REQUIREMENT.</div>					
01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAHHI
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAHHI
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED
OWNER:	MC:		CONTRACTOR/CONSULTANT:		
					
PROJECT TITLE:					
PROPANE DEHYDROGENATION (PDH) PROJECT					
DOCUMENT TITLE:					
PIPING AND INSTRUMENT DIAGRAM Disengaging Hopper					
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	SERIAL NO.
	3981	40	DE	PR	PID 010
SCALE:	SIZE: A1	SHEET NO: 1 OF 1		REVISION: 01	CLASS: 1



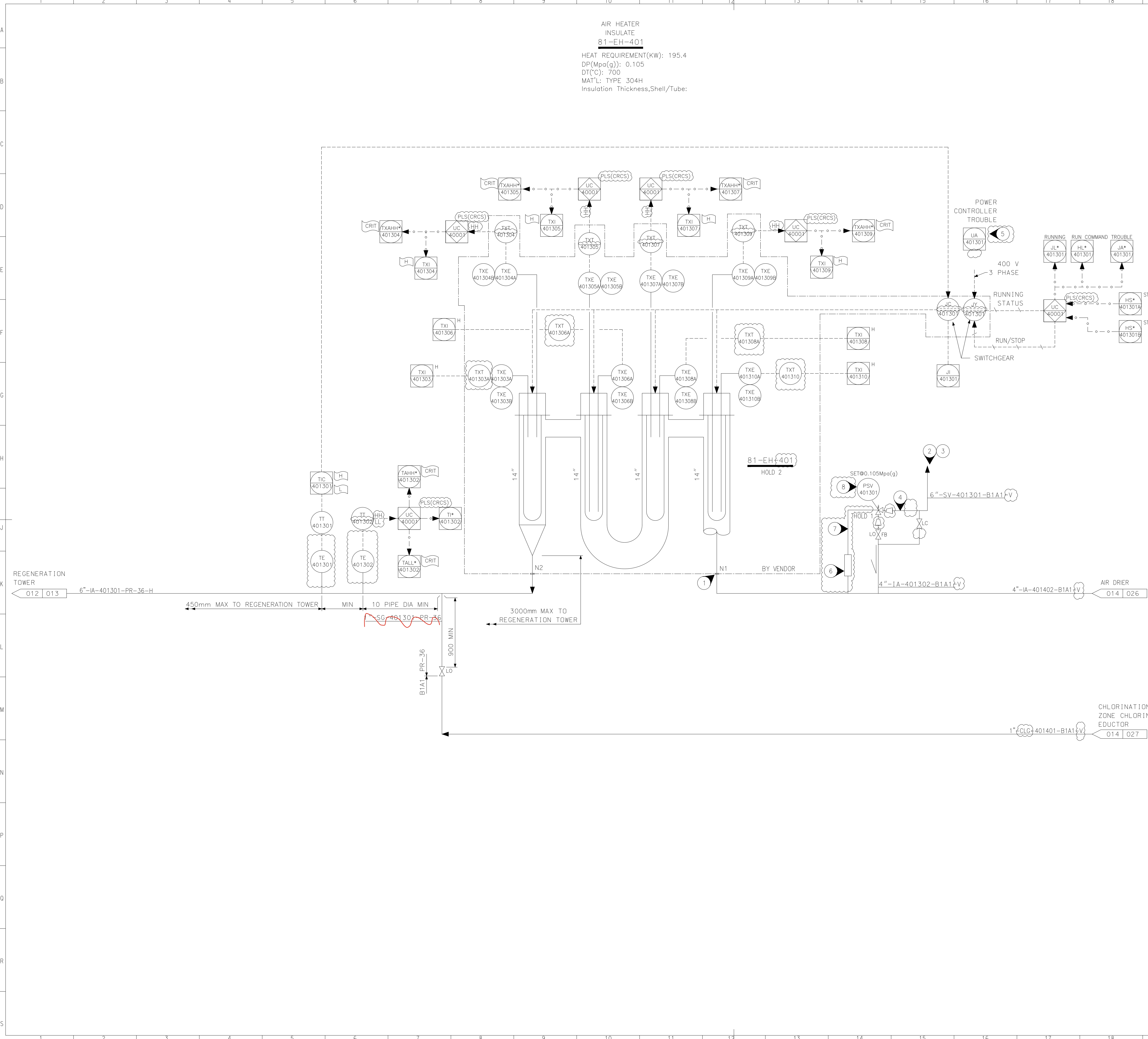






REFERENCE				DRAWINGS																			
								NOTES															
								<div>1. PROVIDE TROLLEY AND HOIST FOR REMOVAL OF REGENERATION TOWER SCREENS</div> <div>2. LINE SHALL BE STRAIGHT VERTICAL EXCEPT FOR THE OFFSET SHOWN</div> <div>3. FLANGES AND 300 MM STUD TO BE PROVIDED BY REGENERATION TOWER VENDOR SEE PROJECT SPEC 3981-40-DE-DSH-034(VESSEL PROCESS DATA SHEET-REGENERATION TOWER (81-R-401))</div> <div>4. ALL FLANGES AND BLINDS IN THIS LINE ARE TO BE PROVIDED WITH A WEATHER SHIELD IN ACCORDANCE WITH THE DETAIL IN UOP STANDARD SPECIFICATION 9-11. PROVIDE NO ADDITIONAL FLANGES EXCEPT AS SHOWN</div> <div>5. MAKE CONNECTION ON TOP OF PIPE</div> <div>6. SHIELD THERMOCOUPLE ELEMENT AGAINST RADIATION FROM ELECTRIC HEATER ELEMENT</div> <div>7. PIPING MUST BE SYMMETRICAL</div> <div>8. PROVIDE MEANS AND ACCESS FOR INSTALLATION AND REMOVAL OF FLOW ORIFICE</div> <div>9. PROVIDE 3 SAMPLE POINT 120' APART</div> <div>10. INSULATE FLANGE</div> <div>11. SEE STD DWG 8-130</div> <div>12. DUAL PLATE CHECK VALVE</div> <div>13. FILLER FLANGE WITH SCREEN INSERT (DETAIL "H", SEE DWG 3981-40-DE-PR-PID-006) ASSEMBLY AND BYPASS VALVES MUST BE ACCESSIBLE FROM PLATFORM</div> <div>14. LOCATE IN VERTICAL LINE</div> <div>15. PROVIDE ACCESS</div> <div>16. CATALYST SAMPLER SYSTEM (SEE STD DWG 8-142)</div> <div>17. FROM CCR NITROGEN HEADER</div> <div>18. TDI-401213 THRU TDI-401218 INDICATES THE DIFFERENTIAL TEMPERATURE BETWEEN CHLORINATION ZONE AND AIR HEATER OUTLET(TI-401302)</div> <div>19. TDI-401213 THRU TDI-401218 INDICATES THE DIFFERENTIAL TEMPERATURE BETWEEN CHLORINATION ZONE AND AIR HEATER OUTLET.</div>															
								GENERAL NOTES:															
								<div>1. FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055</div> <div>2. EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.</div> <div>3. FUNCTIONAL IDENTIFICATION OF INSTRUMENT SIGNALS SUFFIXED WITH AN ASTERISK (*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.</div>															
								HOLDS															





REFERENCE

DRAWINGS

NOTES

GENERAL NOTES:

HOLDS

01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAHGH
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAHGH
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED
OWNER:		MC:		CONTRACTOR/CONSULTANT:	

PROJECT TITLE:

PROPANE DEHYDROGENATION (PDH) PROJECT

DOCUMENT TITLE:

PIPING AND INSTRUMENT DIAGRAM  
Air Heater

DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	013

SCALE:

SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1
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- INSULATE ALL FLANGES
- THE VENT SHALL EXTEND AT LEAST 5 METERS ABOVE THE HIGHEST PLATFORM OR OTHER OCCUPIED AREAS WITHIN A MINIMUM OF 30 METERS RADIUS OF THE DISCHARGE.
- TO ATMOSPHERE AT SAFE LOCATION
- LOCATE WEEP HOLE AT LOW POINT.
- UA WILL BE FINALIZED BY VENDOR.
- PILOT OPERATED SAFETY VALVE REMOTE SENSING LINE.
- BY PSV VENDOR.
- PILOT OPERATED SAFETY VALVE.

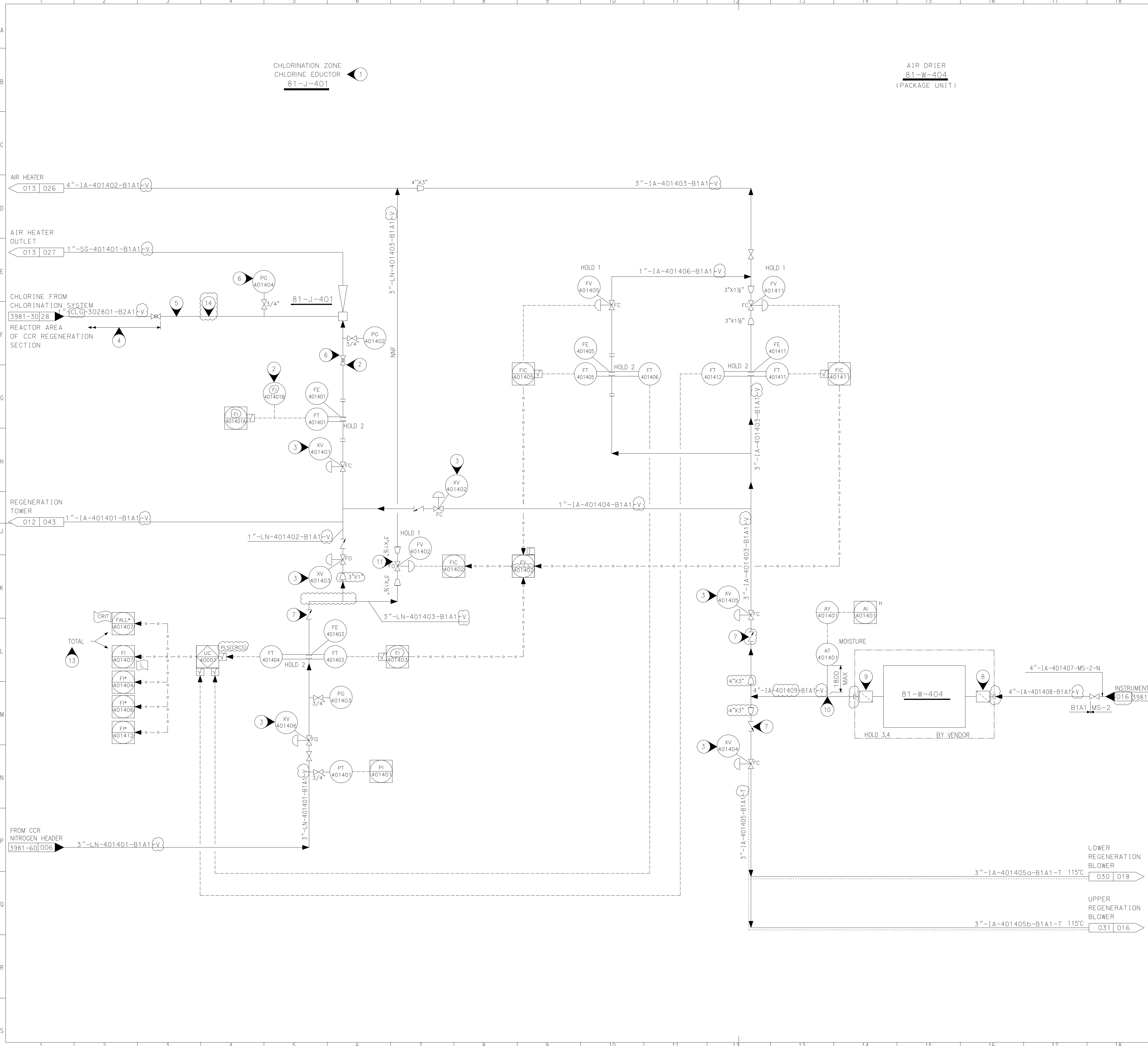
- GENERAL NOTES:
- FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055
  - EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.
  - FUNCTIONAL IDENTIFICATION OF INSTRUMENT (SIGNALS) SUFFIXED WITH AN ASTERISK (\*) ARE INCLUDED IN THE (CATALYST) REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE (CATALYST) REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.

- HOLDS
- PSV ORIFICE SIZE, ITS INLET/OUTLET LINE SIZE AND CORRESPONDING VESSEL NOZZLE SIZE.
  - SIZE OF HEATER INLET/OUTLET NOZZLES.

01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAHGH
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAHGH
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED
OWNER:		MC:		CONTRACTOR/CONSULTANT:	

PROJECT TITLE:					
PROPANE DEHYDROGENATION (PDH) PROJECT					
DOCUMENT TITLE:					
PIPING AND INSTRUMENT DIAGRAM Air Heater					
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE
	3981	40	DE	PR	PID
SCALE:	SIZE: A1		SHEET NO: 1 OF 1		REVISION: 01
					CLASS: 1

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REFERENCE		DRAWINGS	

NOTES				
<p>1. LOCATE IN REGENERATION STRUCTURE CLOSE TO AIR HEATER</p> <p>2. FI MUST BE READABLE FROM VALVE</p> <p>3. DETAIL "E", SEE DWG 3981-40-DE-PR-PID-007</p> <p>4. SUPPLIED WITH REACTOR AREA</p> <p>5. SIZE AND SPECIFICATION BY CHLORINATION SYSTEM VENDOR</p> <p>6. PG MUST BE READABLE FROM VALVE</p> <p>7. DUAL PLATE CHECK VALVE</p> <p>8. PREFILTER (SUPPLIED WITH DRIER)</p> <p>9. AFTERFILTER (SUPPLIED WITH DRIER)</p> <p>10. MAKE CONNECTION ON TOP OF PIPE</p> <p>11. SIZE OF THIS LINE (AND OF ANY NOZZLE OR DISTRIBUTOR TO WHICH IT IS CONNECTED) IS BASED ON THE MAXIMUM FLOW SIMULTANEOUSLY THROUGH ALL VALVES ON THE NITROGEN AND INSTRUMENT AIR LINES TO THE REGENERATION TOWER/VENT GAS TREATING SYSTEM (ALL SIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND PIPING AND INSTRUMENT DIAGRAMS FOR THIS PROJECT AND SHALL BE CONFIRMED BY CONTRACTOR IF LARGER VALVES OR VALVE CV'S ARE USED)</p> <p>12. FROM CCR NITROGEN HEADER</p> <p>13. FI-401407 IS THE TOTAL SUM OF THE FT-401404, FT-401406, FT-401412 UNDER DIFFERENT WORKING CONDITIONS. DETAILED DESCRIPTIONS ARE PROVIDED IN THE CCR OPERATING MANUAL.</p> <p>14. THE PORTION OF LINE ROUTED OVER THE PIPE RACK IS 2"</p>				

GENERAL NOTES:

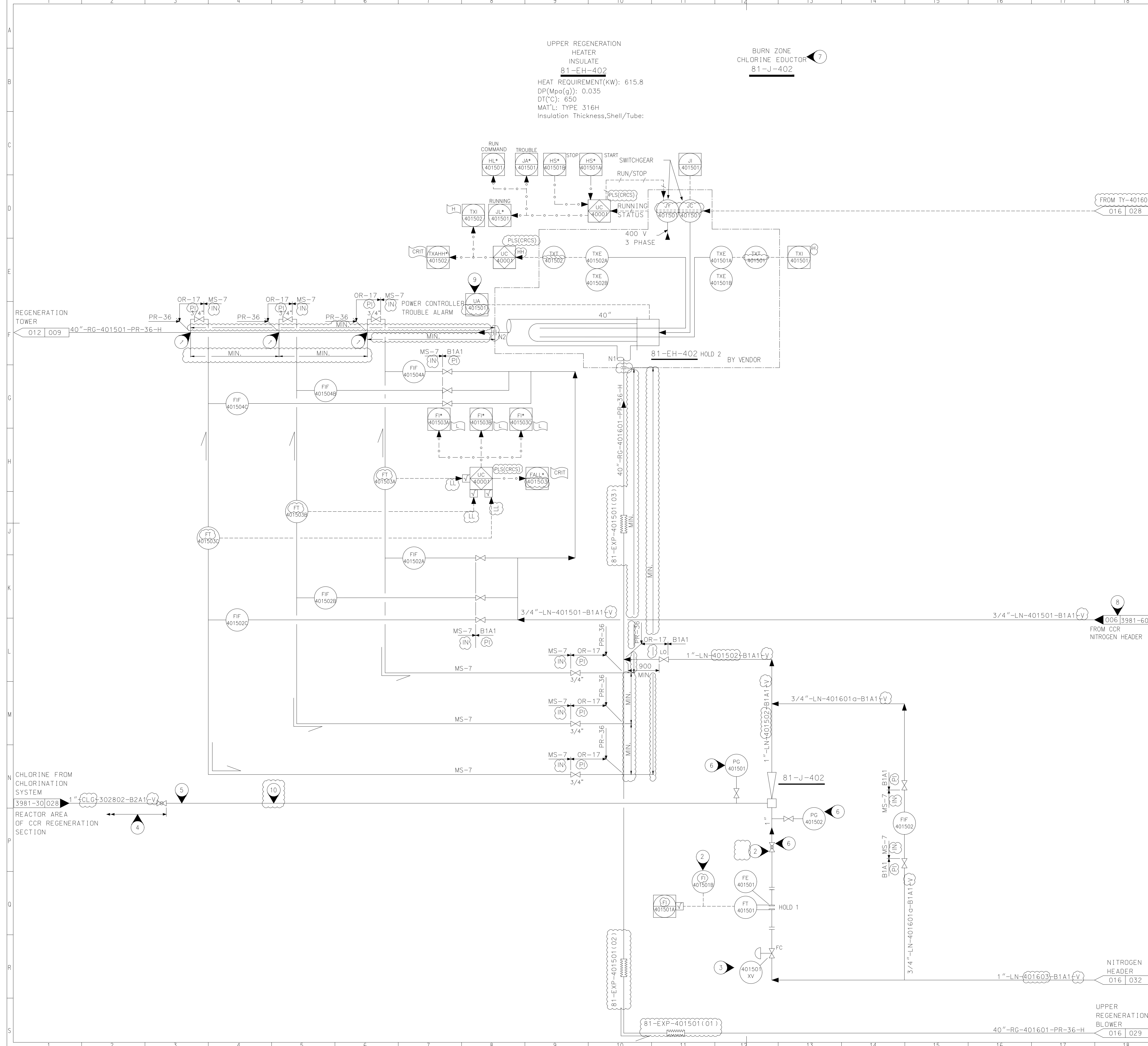
- FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055
- EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER (PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.
- FUNCTIONAL IDENTIFICATION OF INSTRUMENT(S) SUFFIXED WITH AN ASTERISK (\*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.

HOLDS				
<p>1. CONTROL VALVE, ITS ISOLATION, BY PASS VALVE SIZE AND NUMBER OF EXPANDER/REDUCER</p> <p>2. FLOWMETER CONNECTION SIZE.</p> <p>3. PACKAGE DETAIL WITHIN VENDOR BATTERY LIMIT.</p> <p>4. UTILITY AND LINE SIZE FOR THE PACKAGE.</p>				

01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAGHI	
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAGHI	
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED	
OWNER:	MC:		CONTRACTOR/CONSULTANT:			
<p>PROJECT TITLE:</p> <p>PROPANE DEHYDROGENATION (PDH) PROJECT</p> <p>DOCUMENT TITLE:</p> <p>PIPING AND INSTRUMENT DIAGRAM Air Drier</p>						
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	014
SCALE:	SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1		

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NOTES

GENERAL NOTES:

HOLDS

01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAGHI
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAGHI
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED
OWNER:		MC:		CONTRACTOR/CONSULTANT:	

PROJECT TITLE:

PROPANE DEHYDROGENATION (PDH) PROJECT

DOCUMENT TITLE:

PIPING AND INSTRUMENT DIAGRAM  
Upper Regeneration Heater

DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	015

SCALE:

SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1
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- MAKE CONNECTION ON TOP OF PIPE
- F1 MUST BE READABLE FROM VALVE
- DETAIL "E", SEE DWG 3981-40-DE-PR-PID-007
- SUPPLIED WITH REACTOR AREA
- SIZE AND SPECIFICATION BY CHLORINATION SYSTEM VENDOR
- PG MUST BE READABLE FROM VALVE
- LOCATE IN REGENERATION STRUCTURE CLOSE TO UPPER REGENERATION HEATER
- FROM CCR NITROGEN HEADER
- THE SIGNAL RECEIVED FROM HEATER PLC
- THE PORTION OF LINE ROUTED OVER THE PIPE RACK IS 2".

- GENERAL NOTES:
- FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055
  - EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.
  - FUNCTIONAL IDENTIFICATION OF INSTRUMENT SIGNALS SUFFIXED WITH AN ASTERISK (\*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.

- HOLDS
- FLOWMETER CONNECTION SIZE.
  - SIZE OF HEATER INLET/OUTLET NOZZLES.

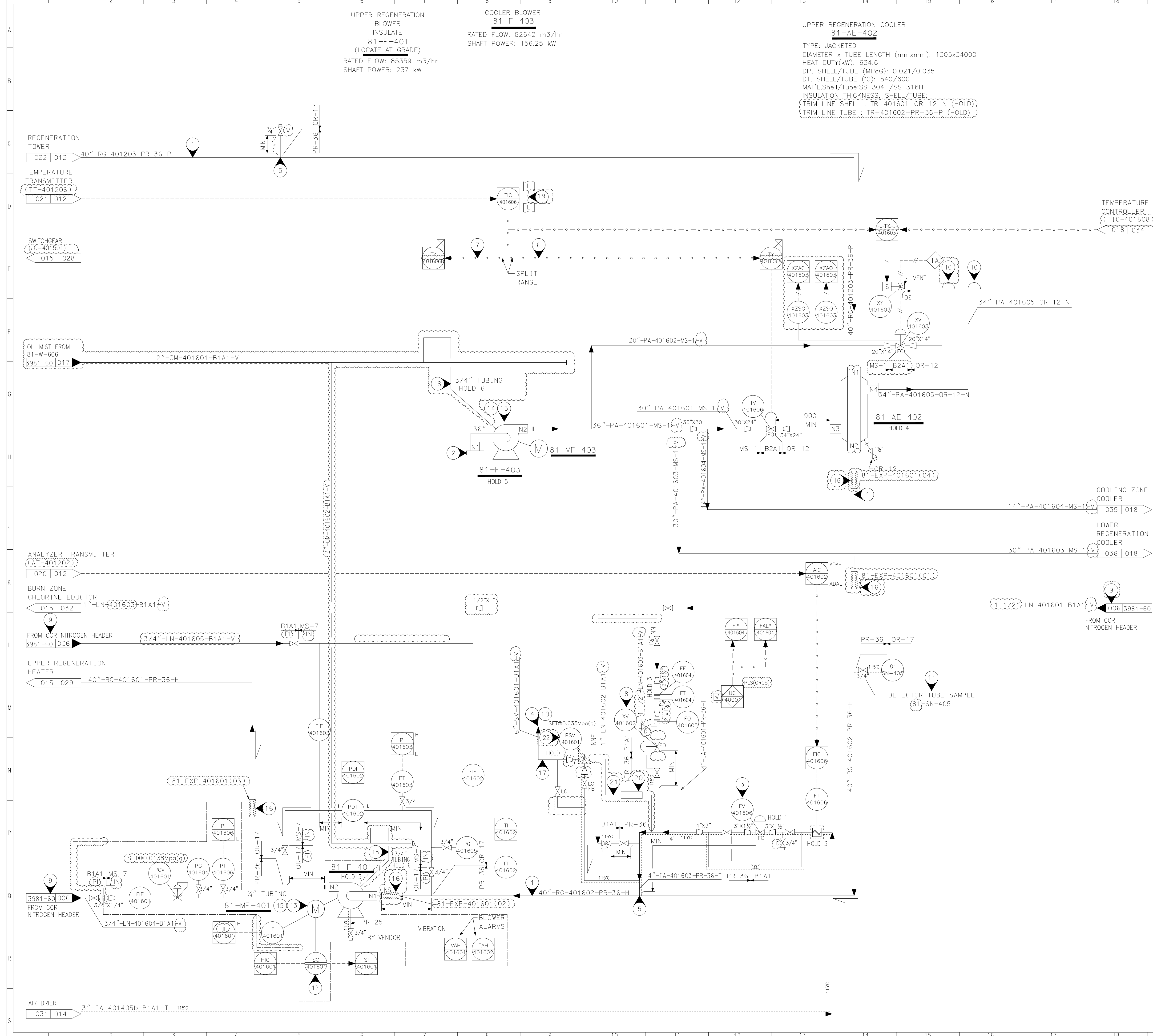
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PROPANE DEHYDROGENATION (PDH) PROJECT

DOCUMENT TITLE:

PIPING AND INSTRUMENT DIAGRAM  
Upper Burn Zone Equipment

DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	016

SCALE:

SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1
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- ALL FLANGES AND BLINDS IN THIS LINE ARE TO BE PROVIDED WITH A WEATHER SHIELD IN ACCORDANCE WITH THE DETAIL IN UOP STANDARD SPECIFICATION 9-11. PROVIDE NO FLANGES EXCEPT AS SHOWN.
  - AIR INTAKE SCREEN (LOCATE OUTSIDE REGENERATION STRUCTURE).
  - SIZE OF THIS LINE (AND OF ANY NOZZLE OR DISTRIBUTOR TO WHICH IT IS CONNECTED) IS BASED ON THE MAXIMUM FLOW SIMULTANEOUSLY THROUGH ALL VALVES ON THE NITROGEN AND INSTRUMENT AIR LINES TO THE REGENERATION TOWER/VENT GAS WASH TOWER SYSTEM (ALL SIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND PIPING AND INSTRUMENT DIAGRAMS FOR THIS PROJECT AND SHALL BE CONFIRMED BY CONTRACTOR IF LARGER VALVES OR VALVE CV'S ARE USED).
  - THE VENT SHALL EXTEND AT LEAST 5 METERS ABOVE THE HIGHEST PLATFORM OR OTHER OCCUPIED AREAS WITHIN A MINIMUM OF 30 METERS RADIUS OF THE DISCHARGE.
  - MAKE CONNECTION ON TOP OF PIPE.
  - HIGH TEMPERATURE SIGNAL OPENS CONTROL VALVE.
  - LOW TEMPERATURE SIGNAL INCREASES POWER.
  - DETAIL "E", SEE DWG 3981-40-DE-PR-PID-007.
  - FROM CCR NITROGEN HEADER.
  - TO ATMOSPHERE AT SAFE LOCATION.
  - DETAIL "DT", SEE DWG 3981-10-DE-PR-PID-022.
  - SWITCHGEAR (FURNISHED WITH MOTOR).
  - DETAIL "PUMP C", SEE DWG 3981-00-DE-PR-PID-055.
  - DETAIL "PUMP A", SEE DWG 3981-00-DE-PR-PID-055.
  - FOR 81-F-403, 81-F-401 SHALL BE CONSIDERED SPARE.
  - EXPANSION JOINT.
  - LOCATE WEEP HOLE AT LOW POINT.
  - OIL DRAIN OF MIST OIL LUBRICATION SYSTEM IS COLLECTED ON A CONTAINER.
  - TIC-401606 SPLIT RANGE CONTROL:
- 100  
VALVE  
OPENING (%)  
50  
TIC  
OUTPUT (%)  
100
- PILOT OPERATED SAFETY VALVE REMOTE SENSING LINE.
  - BY PSV VENDOR.
  - PILOT OPERATED SAFETY VALVE.
- GENERAL NOTES:
- FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055.
  - EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER (PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.
  - FUNCTIONAL IDENTIFICATION OF INSTRUMENT(S) SUFFIXED WITH AN ASTERISK (\*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.

- HOLDS
- CONTROL VALVE, ITS ISOLATION, BY PASS VALVE SIZE AND NUMBER OF EXPANDER/REDUCER.
  - PSV ORIFICE SIZE, ITS INLET/OUTLET LINE SIZE AND CORRESPONDING VESSEL NOZZLE SIZE.
  - FLOWMETER CONNECTION SIZE.
  - TYPE OF HEAT EXCHANGER, ITS NOZZLE DETAIL AND SIZE OF HX INLET/OUTLET NOZZLES.
  - REQUIRED UTILITY AND LINE SIZE FOR BLOWER.
  - SIZE AND ARRANGEMENT OF OIL MIST DROP POINT IN PUMP LUBRICATION SYSTEM INCLUDING RECLASSIFIER, OIL DRAIN CONTAINER AND OTHER REQUIREMENT.

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DOCUMENT TITLE:

PIPING AND INSTRUMENT DIAGRAM  
Upper Burn Zone Equipment

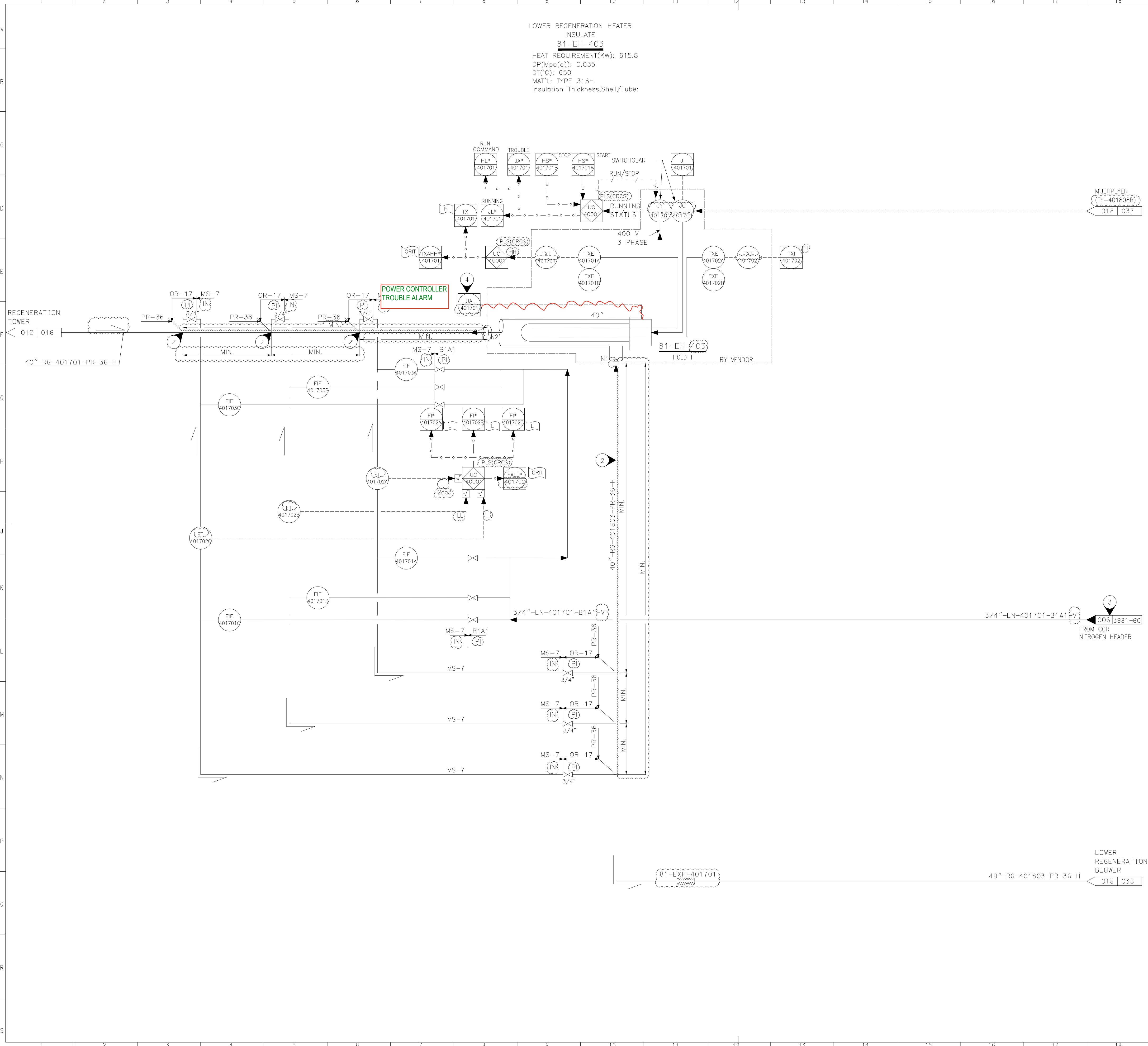
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	3981	40	DE	PR	PID	016



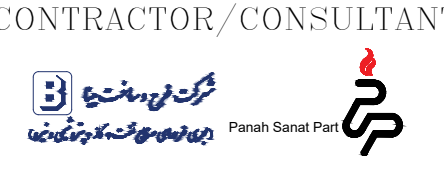
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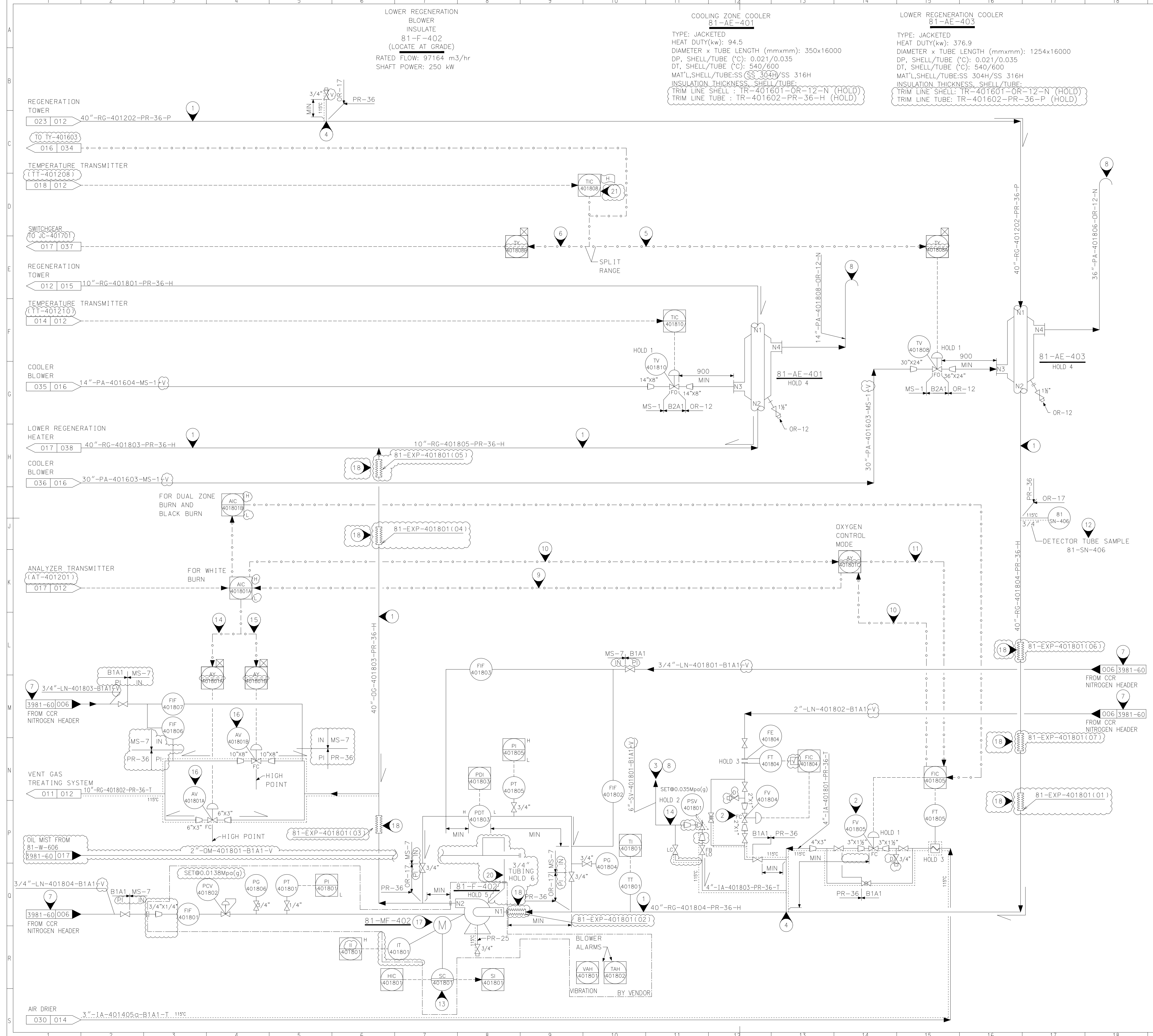
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REFERENCE		DRAWINGS																			
<h3>NOTES</h3> <ol style="list-style-type: none"><li>MAKE CONNECTION ON TOP OF PIPE</li><li>ALL FLANGES AND BLINDS IN THIS LINE ARE TO BE PROVIDED WITH A WEATHER SHIELD IN ACCORDANCE WITH THE DETAIL IN UOP STANDARD SPECIFICATION 9-11. PROVIDE NO ADDITIONAL FLANGES EXCEPT AS SHOWN</li><li>FROM CCR NITROGEN HEADER</li><li>THE SIGNAL RECEIVED FROM HEATER PLC</li></ol>																					
<h3>GENERAL NOTES:</h3> <ol style="list-style-type: none"><li>FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055</li><li>EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.</li><li>FUNCTIONAL IDENTIFICATION OF INSTRUMENT(SIGNALS) SUFFIXED WITH AN ASTERISK (*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.</li></ol>																					
<h3>HOLDS</h3> <ol style="list-style-type: none"><li>SIZE OF HEATER INLET/OUTLET NOZZLES.</li></ol>																					
<table border="1"><thead><tr><th>REV.</th><th>PURPOSE OF ISSUE</th><th>ISSUE DATE</th><th>PREPARE</th><th>CHECKED</th><th>APPROVED</th></tr></thead><tbody><tr><td>01</td><td>ISSUED FOR APPROVAL</td><td>14-Dec-2025</td><td>F.KHODADAD</td><td>M.JAMSHIDI</td><td>M.H.ESHRAGHI</td></tr><tr><td>00</td><td>ISSUED FOR COMMENT</td><td>13-Aug-2025</td><td>M.KHERADKAR</td><td>M.JAMSHIDI</td><td>M.H.ESHRAGHI</td></tr></tbody></table>				REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED	01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.H.ESHRAGHI	00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.H.ESHRAGHI
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PROJECT TITLE: PROPANE DEHYDROGENATION (PDH) PROJECT																					
DOCUMENT TITLE: PIPING AND INSTRUMENT DIAGRAM Lower Regeneration Heater																					
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	SERIAL NO.																
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PROJECT TITLE:

PROPANE DEHYDROGENATION (PDH) PROJECT

DOCUMENT TITLE:

PIPING AND INSTRUMENT DIAGRAM  
Lower Burn Zone Equipment

DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.
	3981	40	DE	PR	PID	018

SCALE:

SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1
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1. ALL FLANGES AND BLINDS IN THIS LINE ARE TO BE PROVIDED WITH A WEATHER SHIELD IN ACCORDANCE WITH THE DETAIL IN UOP STANDARD SPECIFICATION 9-11. PROVIDE NO ADDITIONAL FLANGES EXCEPT AS SHOWN.

2. SIZE OF THIS LINE (AND OF ANY NOZZLE OR DISTRIBUTOR TO WHICH IT IS CONNECTED) IS BASED ON THE MAXIMUM FLOW SIMULTANEOUSLY THROUGH ALL VALVES ON THE NITROGEN AND INSTRUMENT AIR LINES TO THE REGENERATION TOWER/VENT GAS WASH TOWER SYSTEM (ALL SIZED AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND PIPING AND INSTRUMENT DIAGRAMS FOR THIS PROJECT AND SHALL BE CONFIRMED BY CONTRACTOR IF LARGER VALVES OR VALVE CV'S ARE USED).

3. THE VENT SHALL EXTEND AT LEAST 5 METERS ABOVE THE HIGHEST PLATFORM OR OTHER OCCUPIED AREAS WITHIN A MINIMUM OF 30 METERS RADIUS OF THE DISCHARGE.

4. MAKE CONNECTION ON TOP OF PIPE.

5. HIGH TEMPERATURE SIGNAL OPENS CONTROL VALVE.

6. LOW TEMPERATURE SIGNAL INCREASES POWER.

7. FROM CCR NITROGEN HEADER.

8. TO ATMOSPHERE AT SAFE LOCATION.

9. AUTOMATIC MODE INHIBIT SIGNAL.

10. CONTROLLER MODE SIGNAL.

11. CASCADE MODE INHIBIT SIGNAL.

12. DETAIL "DT", SEE DWG 3981-10-DE-PR-PID-022.

13. SWITCHGEAR (FURNISHED WITH MOTOR).

14. LOW OXYGEN SIGNAL OPENS THIS VALVE FIRST.

15. LOW OXYGEN SIGNAL OPENS THIS VALVE LAST.

16. BOTH VALVES MUST BE ON THE SAME PLATFORM.

17. DETAIL "PUMP E", SEE DWG 3981-00-DE-PR-PID-055.

18. EXPANSION JOINT.

19. LOCATE WEEP HOLE AT LOW POINT.

20. OIL DRAIN OF MIST OIL LUBRICATION SYSTEM IS COLLECTED ON A CONTAINER.

21. TIC-401808 SPLIT RANGE CONTROL:

GENERAL NOTES:

1. FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055.

2. EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.

3. FUNCTIONAL IDENTIFICATION OF INSTRUMENT(S) SUFFIXED WITH AN ASTERISK (\*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.

1. CONTROL VALVE, ITS ISOLATION, BY PASS VALVE SIZE AND NUMBER OF EXPANDER/REDUCER.

2. PSV ORIFICE SIZE, ITS INLET/OUTLET LINE SIZE AND CORRESPONDING VESSEL NOZZLE SIZE.

3. FLOWMETER CONNECTION SIZE.

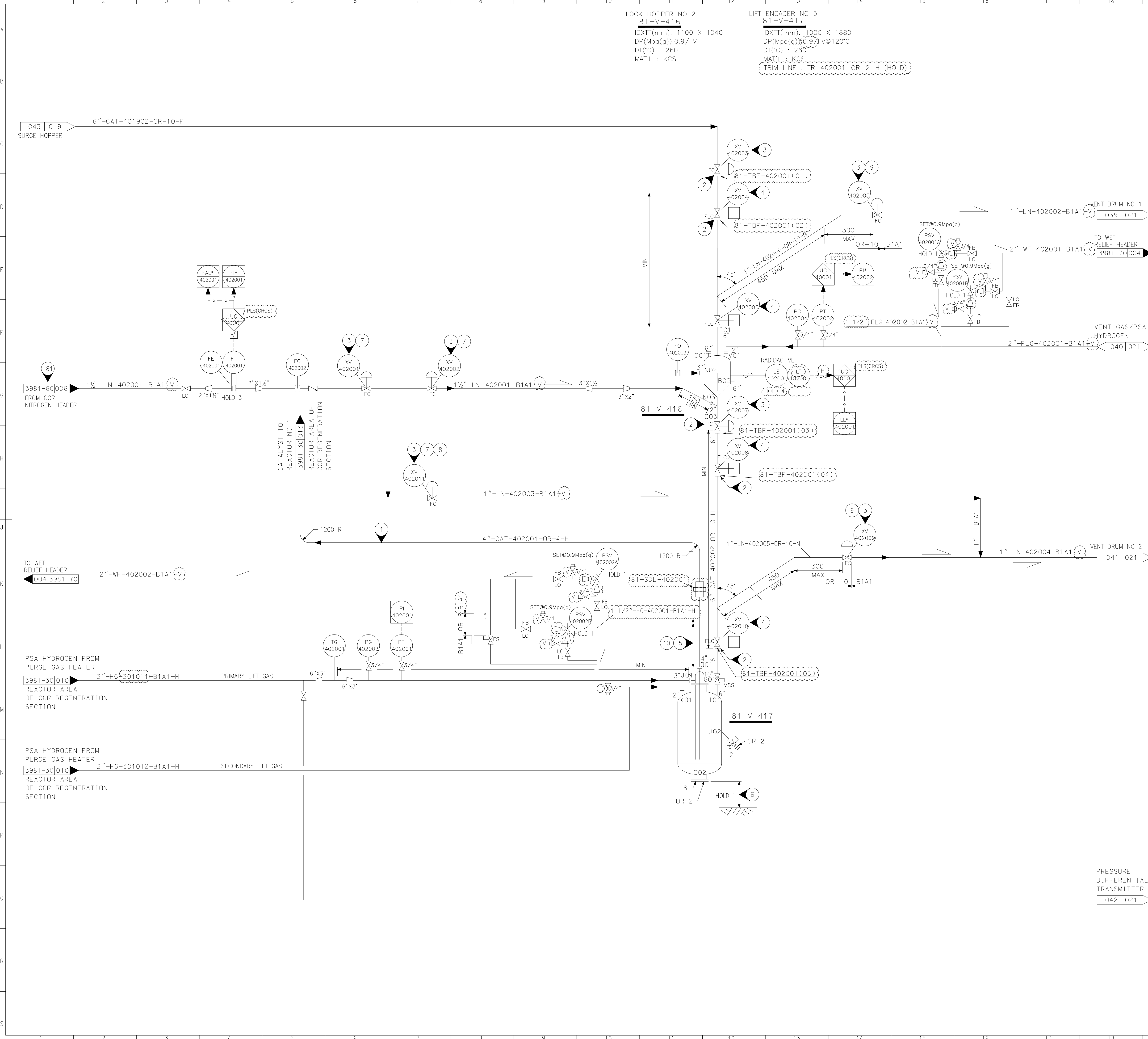
4. TYPE OF HEAT EXCHANGER, ITS NOZZLE DETAIL AND SIZE OF HX INLET/OUTLET NOZZLES.

5. REQUIRED UTILITY AND LINE SIZE FOR BLOWER.

6. SIZE AND ARRANGEMENT OF OIL MIST DROP POINT IN PUMP LUBRICATION SYSTEM INCLUDING RECLASSIFIER, OIL DRAIN CONTAINER AND OTHER REQUIREMENT.



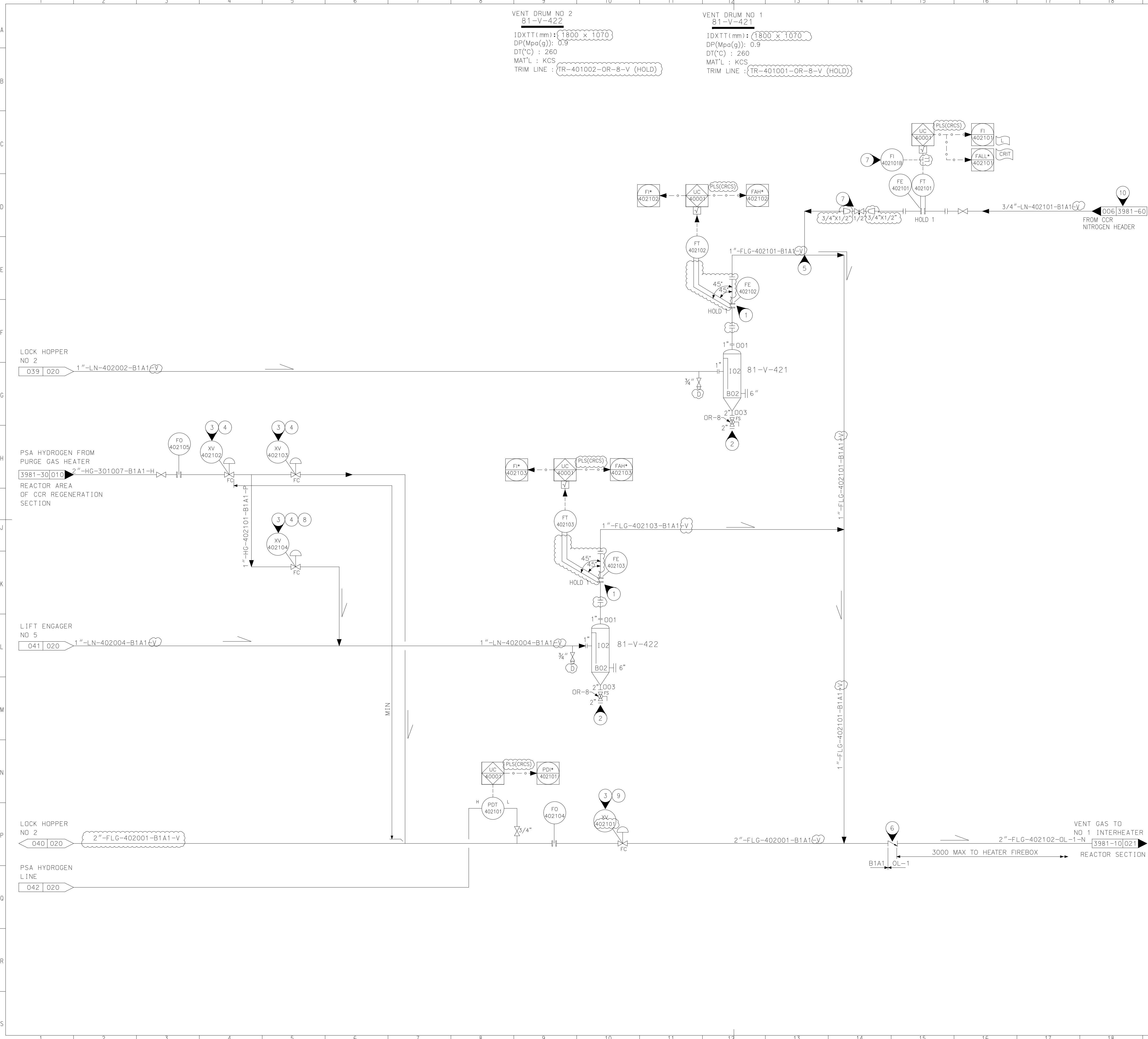




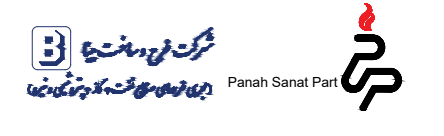


REFERENCE				DRAWINGS			
NOTES							
<div>1. THIS PNEUMATIC CATALYST TRANSFER LINE SHALL CONSIST OF ONE HORIZONTAL, ONE VERTICAL AND ONE DOWNWARD SLOPING SECTION (SLOPING IN DIRECTION OF CATALYST FLOW) WITH TWO PIPE BENDS IN THE REACTOR AREA THE TOTAL LENGTH OF THE HORIZONTAL AND DOWNWARD SLOPING SECTION SHALL BE HELD TO A MINIMUM (15000 MAXIMUM PER CATALYST TRANSFER LINE). THIS MINIMUM MAY BE GOVERNED BY PIPING FLEXIBILITY REQUIRED TO ACCOMMODATE STRUCTURAL MOVEMENT AND/OR THERMAL EXPANSION. VERTICAL SECTION MUST BE WITHIN 0.5' OF VERTICAL AND DOWNWARD SLOPING SECTION MUST BE 20' ± 0.5' FROM HORIZONTAL WHEN ALL EQUIPMENT IS AT NORMAL OPERATING TEMPERATURE</div> <div>2. SEE STD DWG 8-130</div> <div>3. DETAIL "E", SEE DWG 3981-40-DE-PR-PID-007</div> <div>4. DETAIL "G", SEE DWG 3981-40-DE-PR-PID-007</div> <div>5. PROVIDE CLEARANCE FOR LIFT PIPE REMOVAL</div> <div>6. PROVIDE CLEARANCE AND ACCESS FOR 55 GALLON DRUM (1200 MIN)</div> <div>7. MUST BE LOCATED AT SAME ELEVATION ABOVE DOWNSTREAM LINE OR EQUIPMENT AND IN HORIZONTAL LINE WITH STEM UPWARD</div> <div>8. LOCATE BLEED VALVE AT SAME ELEVATION AS DOUBLE BLOCK VALVES</div> <div>9. LOCATE IN HORIZONTAL LINE WITH STEM UPWARD</div> <div>10. SUPPLIED WITH REACTOR AREA</div> <div>11. FROM CCR NITROGEN HEADER</div>							
GENERAL NOTES:							
<div>1. FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055</div> <div>2. EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.</div> <div>3. FUNCTIONAL IDENTIFICATION OF INSTRUMENT SIGNALS SUFFIXED WITH AN ASTERISK (*) ARE INCLUDED IN THE CATALYST REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE CATALYST REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.</div>							
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<div>1. PSV ORIFICE SIZE, ITS INLET/OUTLET LINE SIZE AND CORRESPONDING VESSEL NOZZLE SIZE.</div> <div>2. ELEVATION.</div> <div>3. FLOWMETER CONNECTION SIZE.</div> <div>4. COOLING WATER REQUIREMENT.</div>							
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PIPING AND INSTRUMENT DIAGRAM Lift Engager No 5							
DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.	
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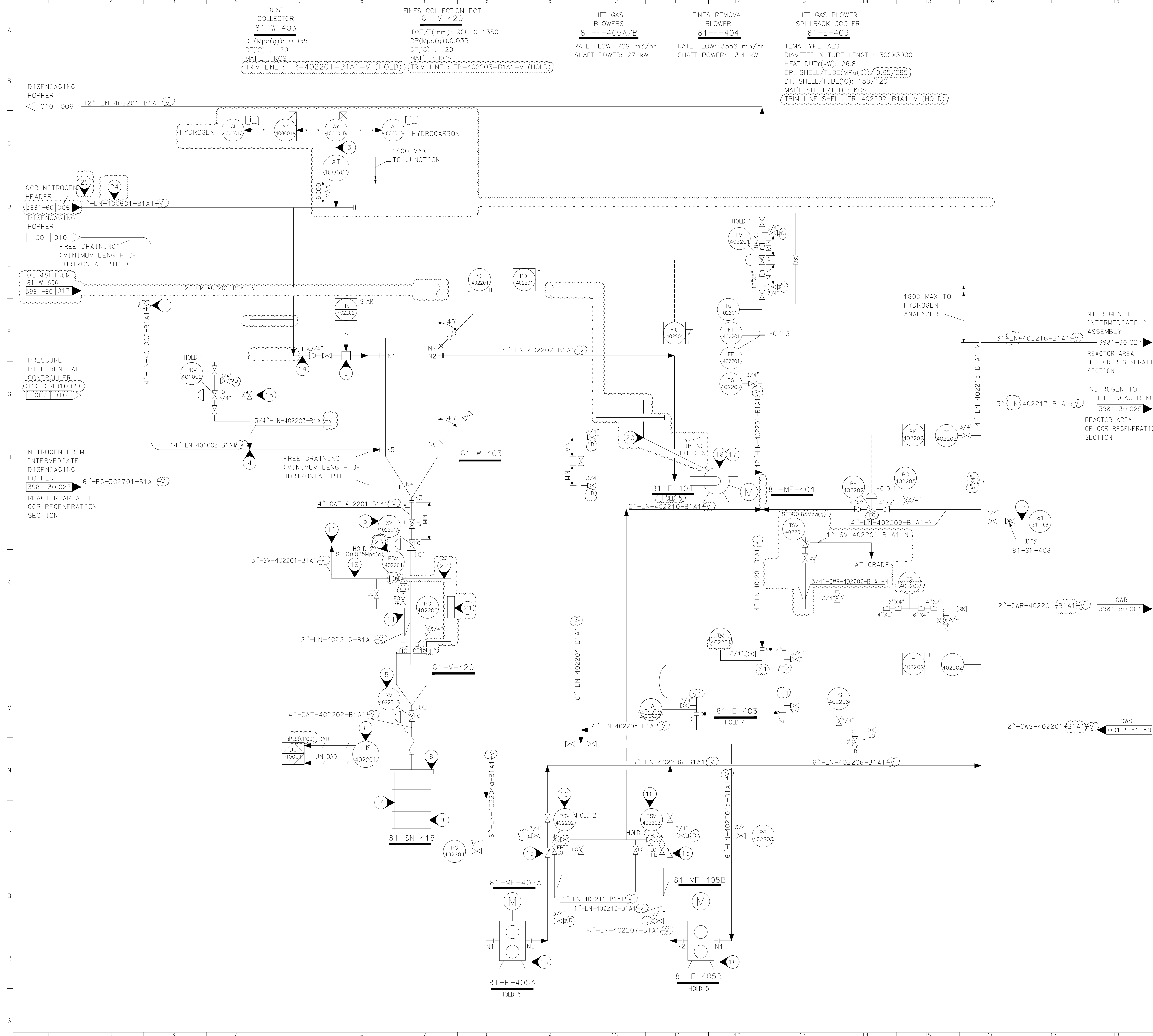
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REFERENCE		DRAWINGS																			
<h3>NOTES</h3> <ol style="list-style-type: none"><li>LOCATE IN VERTICAL UPFLOW RUN</li><li>PROVIDE 500 MIN. CLEARANCE</li><li>DETAIL "E", SEE DWG 3981-40-DE-PR-PID-007</li><li>MUST BE LOCATED AT SAME ELEVATION ABOVE DOWNSTREAM LINE OR EQUIPMENT AND IN HORIZONTAL LINE WITH STEM UPWARD</li><li>MAKE CONNECTION ON TOP OF PIPE</li><li>DUAL PLATE CHECK VALVE</li><li>FI MUST BE READABLE FROM VALVE</li><li>LOCATE BLEED VALVE AT SAME ELEVATION AS DOUBLE BLOCK VALVES</li><li>LOCATE VALVE IN HORIZONTAL LINE WITH STEM UPWARDS AND ABOVE DOWNSTREAM JUNCTION WITH OTHER LINES OR EQUIPMENT</li><li>FROM CCR NITROGEN HEADER</li></ol>																					
<h3>GENERAL NOTES:</h3> <ol style="list-style-type: none"><li>FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055</li><li>EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.</li><li>FUNCTIONAL IDENTIFICATION OF INSTRUMENT (SIGNALS) SUFFIXED WITH AN ASTERISK (*) ARE INCLUDED IN THE (CATALYST) REGENERATION CONTROL SYSTEM. THE SUPPLIER OF THE (CATALYST) REGENERATION CONTROL SYSTEM SHALL PROVIDE DETAILS FOR THESE SIGNALS.</li></ol>																					
<h3>HOLDS</h3> <p>1. FLOWMETER CONNECTION SIZE.</p>																					
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PIPING AND INSTRUMENT DIAGRAM  
Dust Collector

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	3981	40	DE	PR	PID	022

SCALE:

SIZE: A1	SHEET NO: 1 OF 1	REVISION: 01	CLASS: 1
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- MAXIMUM OF FOUR PIPE BENDS WITH MINIMUM RADIUS OF 4300 BETWEEN ENGAGING HOPPER OUTLET AND DUST COLLECTOR INLET NOZZLES MINIMIZE NUMBER OF PIPE CONNECTIONS
- REVERSE JET CLEANING EQUIPMENT (FURNISHED WITH DUST COLLECTOR)
- EACH PARAMETER HAS DEDICATED SIGNAL
- MAKE CONNECTION ON TOP OF PIPE
- DETAIL "E", SEE DWG 3981-40-DE-PR-PID-007
- LOCATE AT OLEFLEX CATALYST DRUM
- OLEFLEX CATALYST DRUM FOR FINES, PROVIDE 250 KG CAPACITY SCALE
- PROVIDE LOOSE FITTING COVER
- PROVIDE ELECTRICAL GROUNDING FOR DRUM
- FURNISHED WITH BLOWER
- ENTIRE INLET LINE TO PSV SHALL BE WITHIN 45° OF VERTICAL
- TO ATMOSPHERE AT SAFE LOCATION
- DUAL PLATE CHECK VALVE
- INTERMITTENT FLOW
- NEEDLE VALVE MUST BE READABLE FROM PDI-4021002 SEE DWG 3981-40-DE-PR-PID-010
- DETAIL "PUMP A",SEE DWG 3981-00-DE-PR-PID-055.
- FOR 81-F-404, SHALL BE CONSIDERED SPARE.
- SAMPLE CONNECTION IS A PIPE END.
- LOCATE WEEP HOLE AT LOW POINT.
- OIL DRAIN OF MIST OIL LUBRICATION SYSTEM IS COLLECTED ON A CONTAINER.
- PILOT OPERATED SAFETY VALVE REMOTE SENSING LINE.
- BY PSV VENDOR.
- PILOT OPERATED SAFETY VALVE.
- SIZE BY DUST COLLECTOR VENDOR.
- FROM CCR NITROGEN HEADER.

- GENERAL NOTES:
- FOR GENERAL LEGEND, ABBREVIATIONS, NOMENCLATURE, INSTRUMENTATION, EQUIPMENT SYMBOLOLOGY AND GENERAL DETAILS SEE DWG'S 3981-00-DE-PR-PID-045 THRU 3981-00-DE-PR-PID-055
  - EACH INSTRUMENT TAG NUMBER HAS A PIANT IDENTIFICATION NUMBER(PROJECT CODE=81) WHICH WILL NOT BE SHOWN ON THE PID'S.
- HOLDS
- CONTROL VALVE, ITS ISOLATION, BY PASS VALVE SIZE AND NUMBER OF EXPANDER/REDUCER
  - PSV ORIFICE SIZE, ITS INLET/OUTLET LINE SIZE AND CORRESPONDING VESSEL NOZZLE SIZE.
  - FLOWMETER CONNECTION SIZE.
  - TYPE OF HEAT EXCHANGER, ITS NOZZLE DETAIL AND SIZE OF HX INLET/OUTLET NOZZLES.
  - REQUIRED UTILITY AND LINE SIZE FOR BLOWER.
  - SIZE AND ARRANGEMENT OF OIL MIST DROP POINT IN PUMP LUBRICATION SYSTEM INCLUDING RECLASSIFIER, OIL DRAIN CONTAINER AND OTHER REQUIREMENT.

01	ISSUED FOR APPROVAL	14-Dec-2025	F.KHODADAD	M.JAMSHIDI	M.HESHRAHH
00	ISSUED FOR COMMENT	13-Aug-2025	M.KHERADKAR	M.JAMSHIDI	M.HESHRAHH
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED
OWNER:		MC:		CONTRACTOR/CONSULTANT:	

PROJECT TITLE:	PROPANE DEHYDROGENATION (PDH) PROJECT
DOCUMENT TITLE:	PIPING AND INSTRUMENT DIAGRAM Dust Collector
DOC NO.:	PROJ.CODE 3981
SCALE:	SIZE: A1
	SHEET NO: 1 OF 1
	REVISION: 01
	CLASS: 1

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