
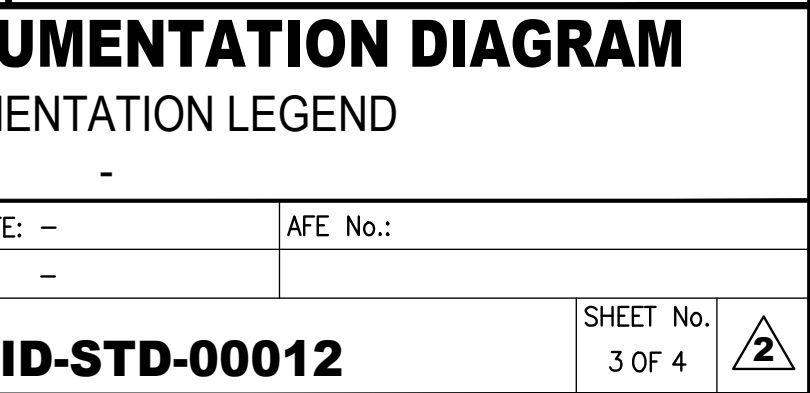
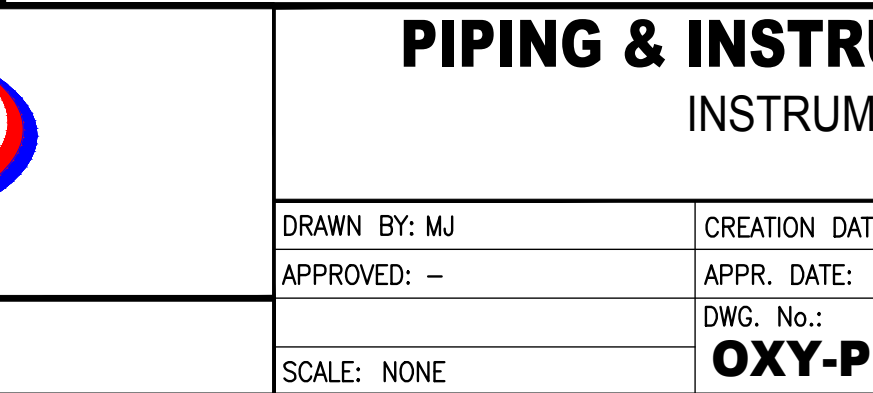
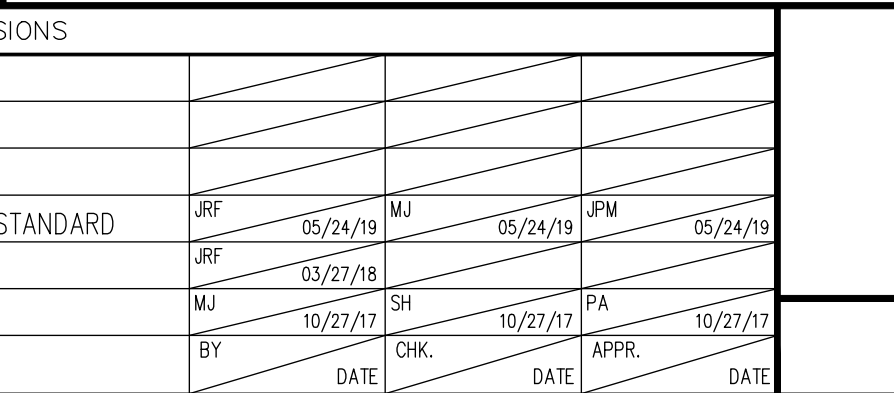
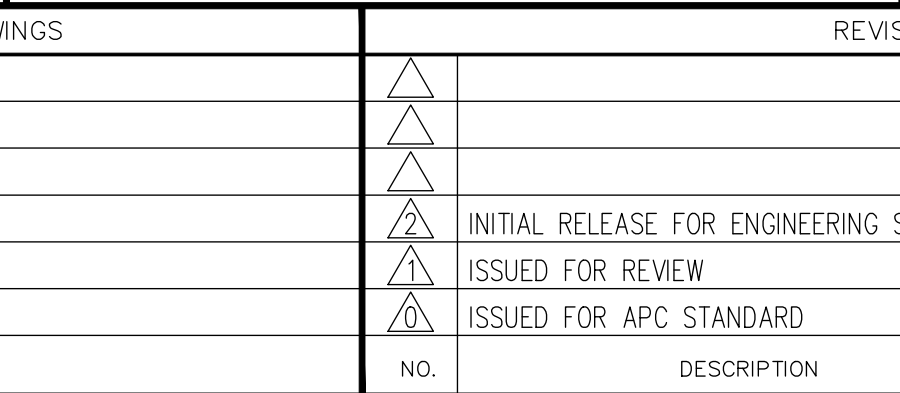
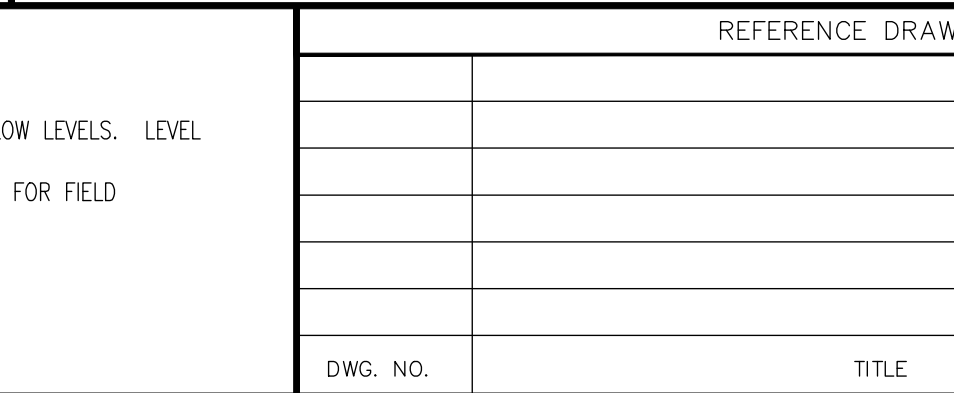
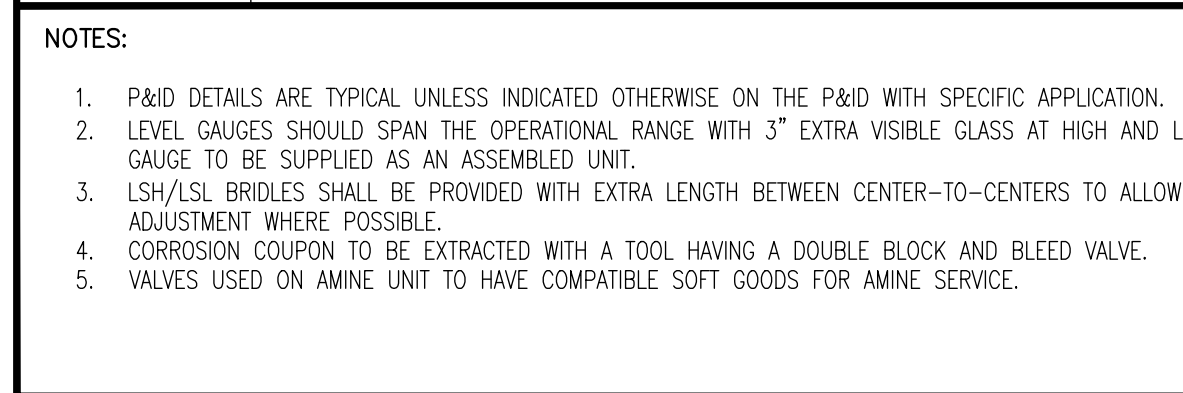
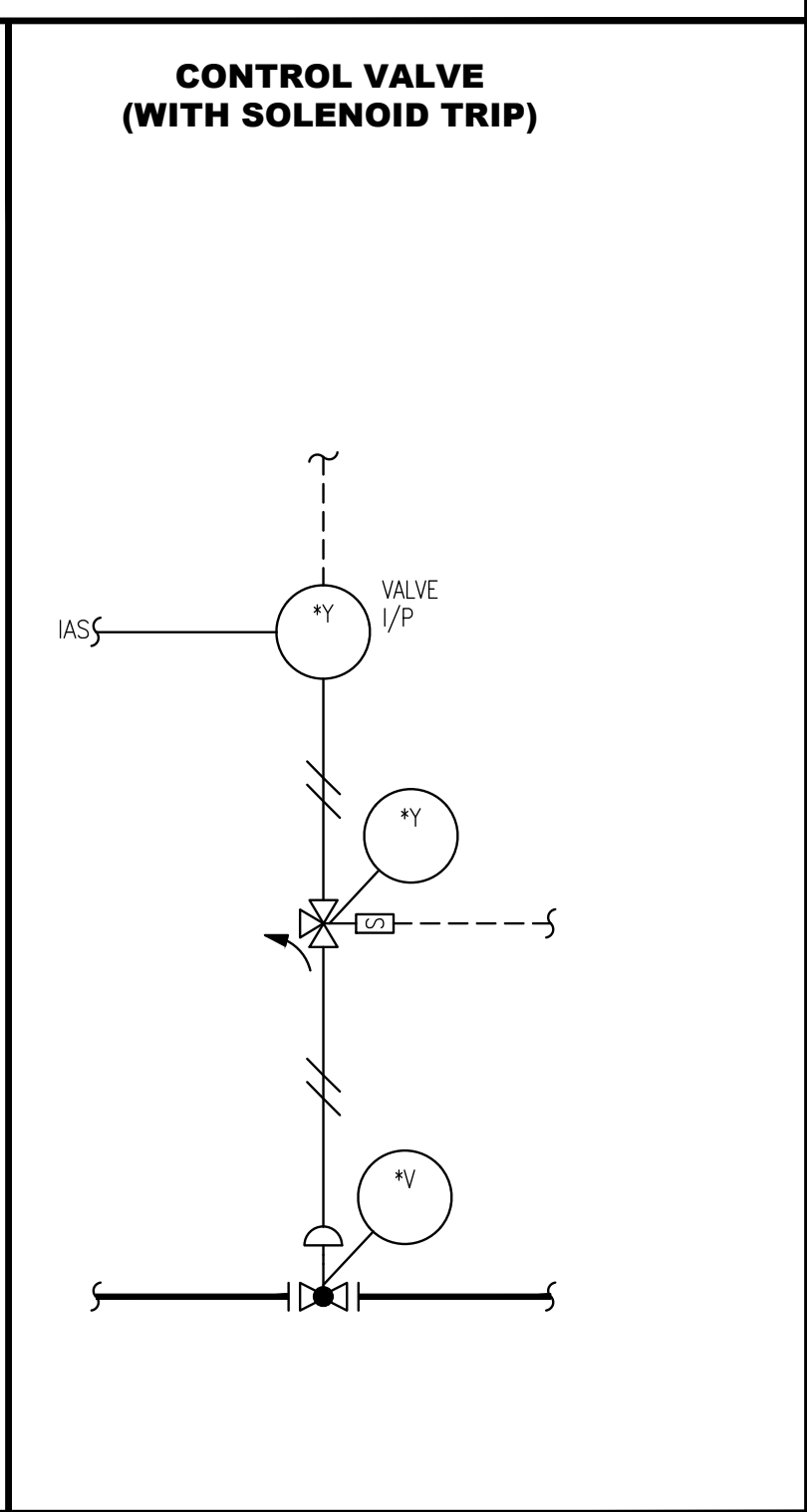
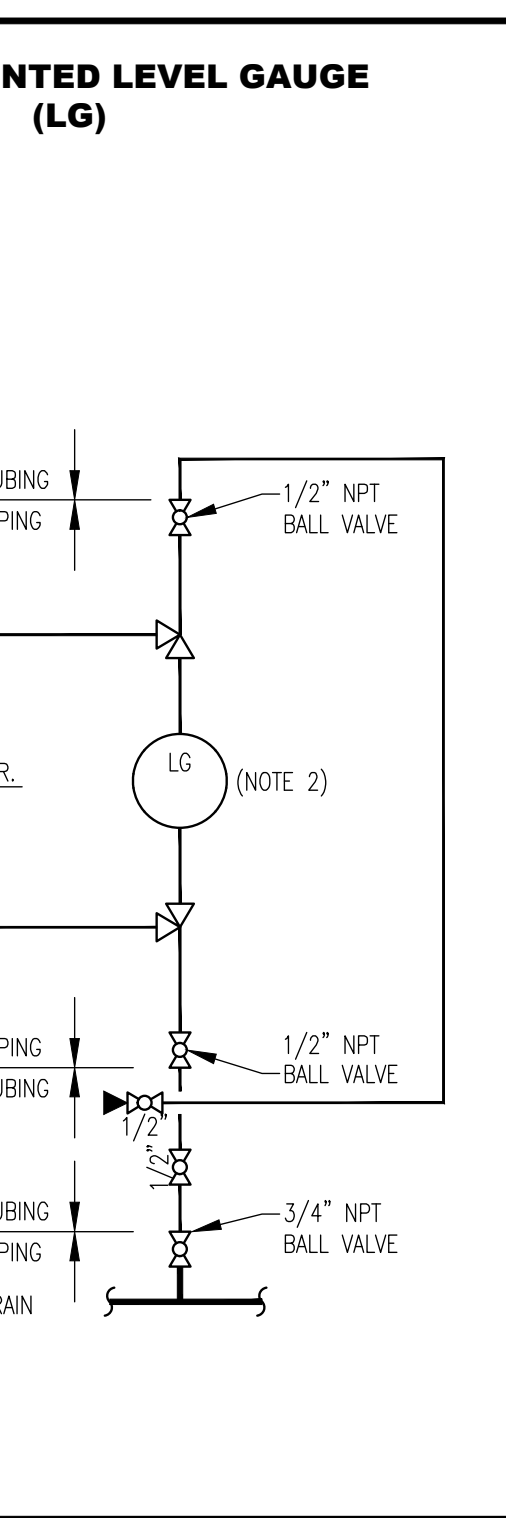
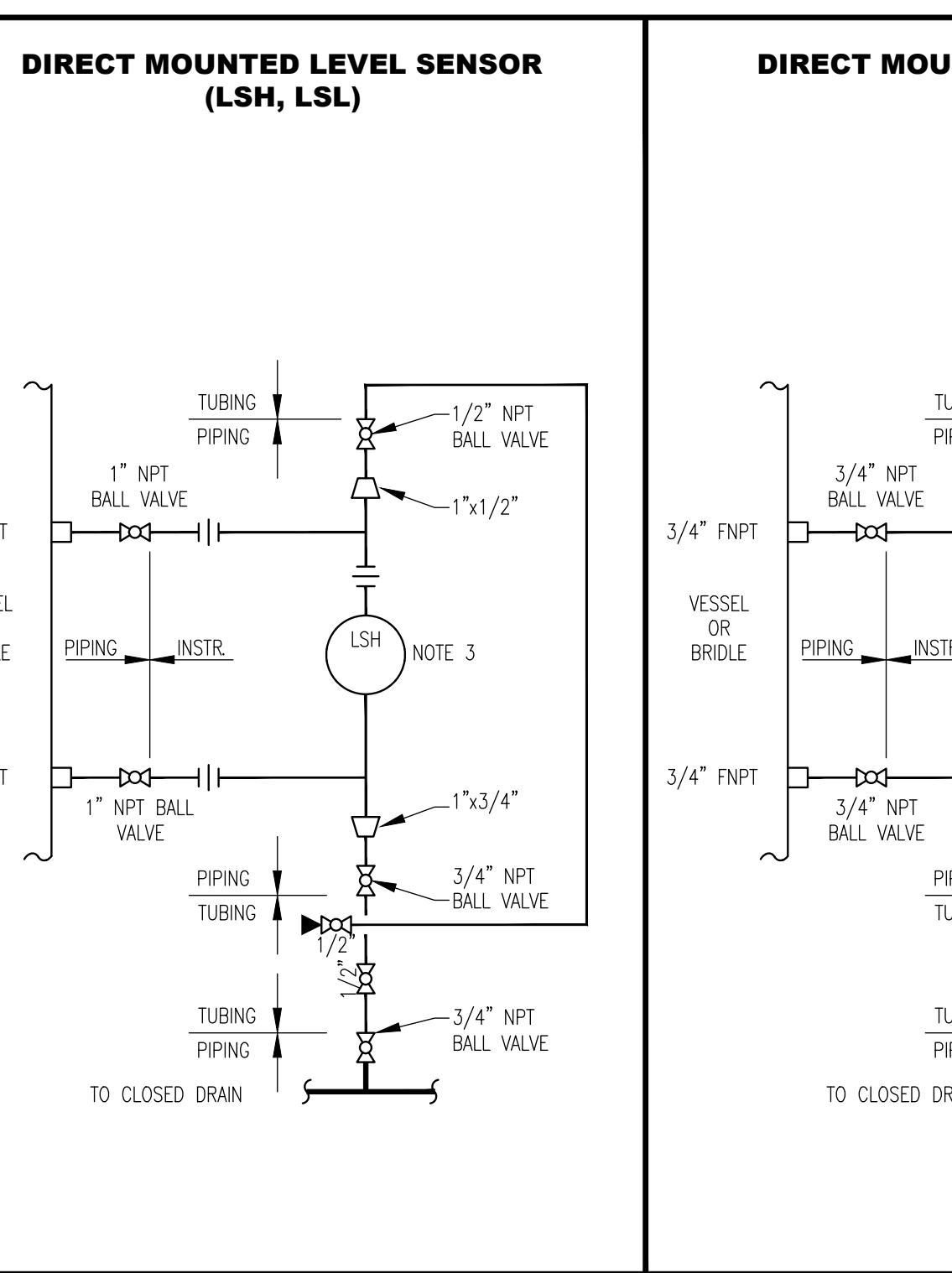
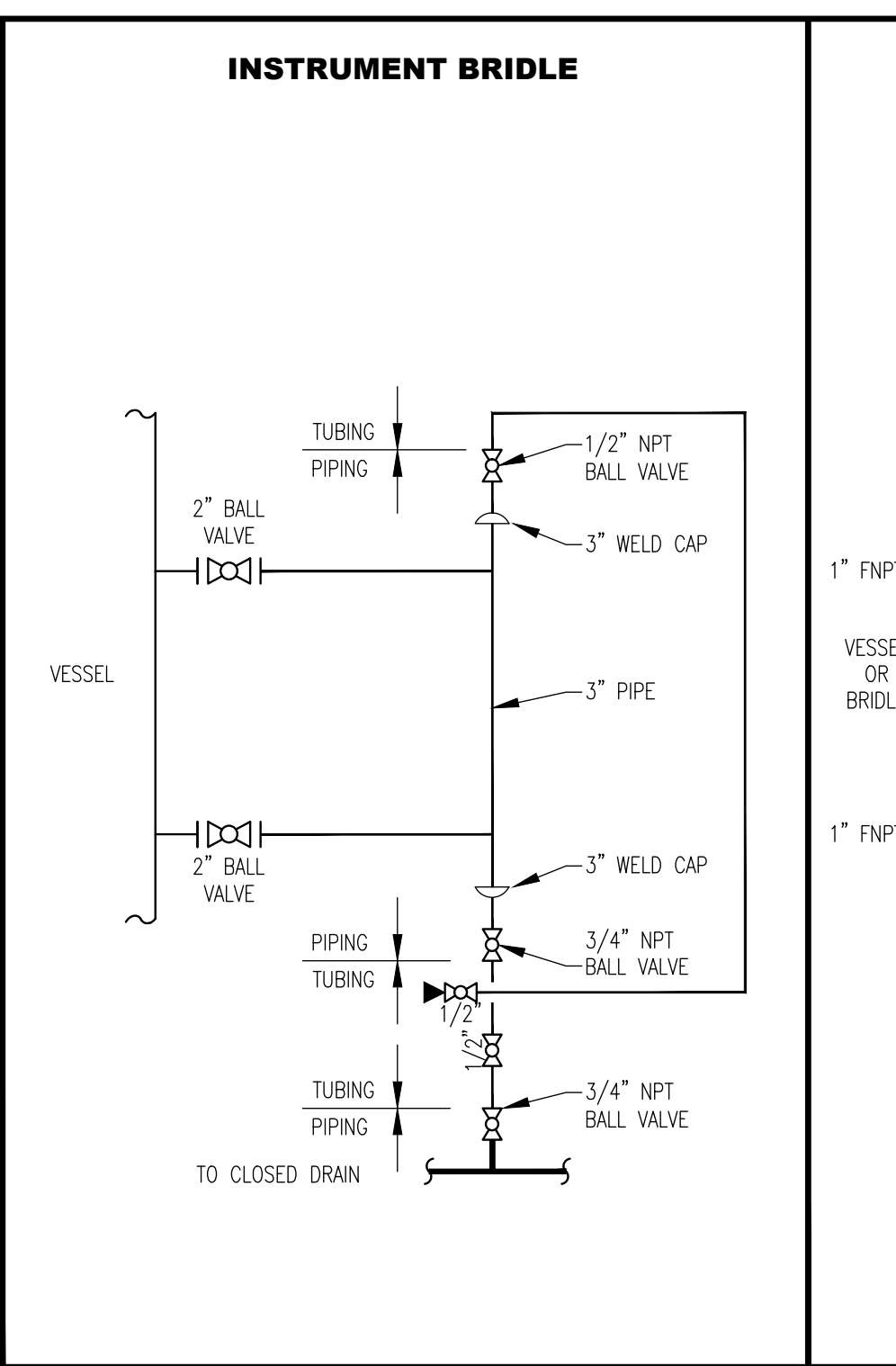
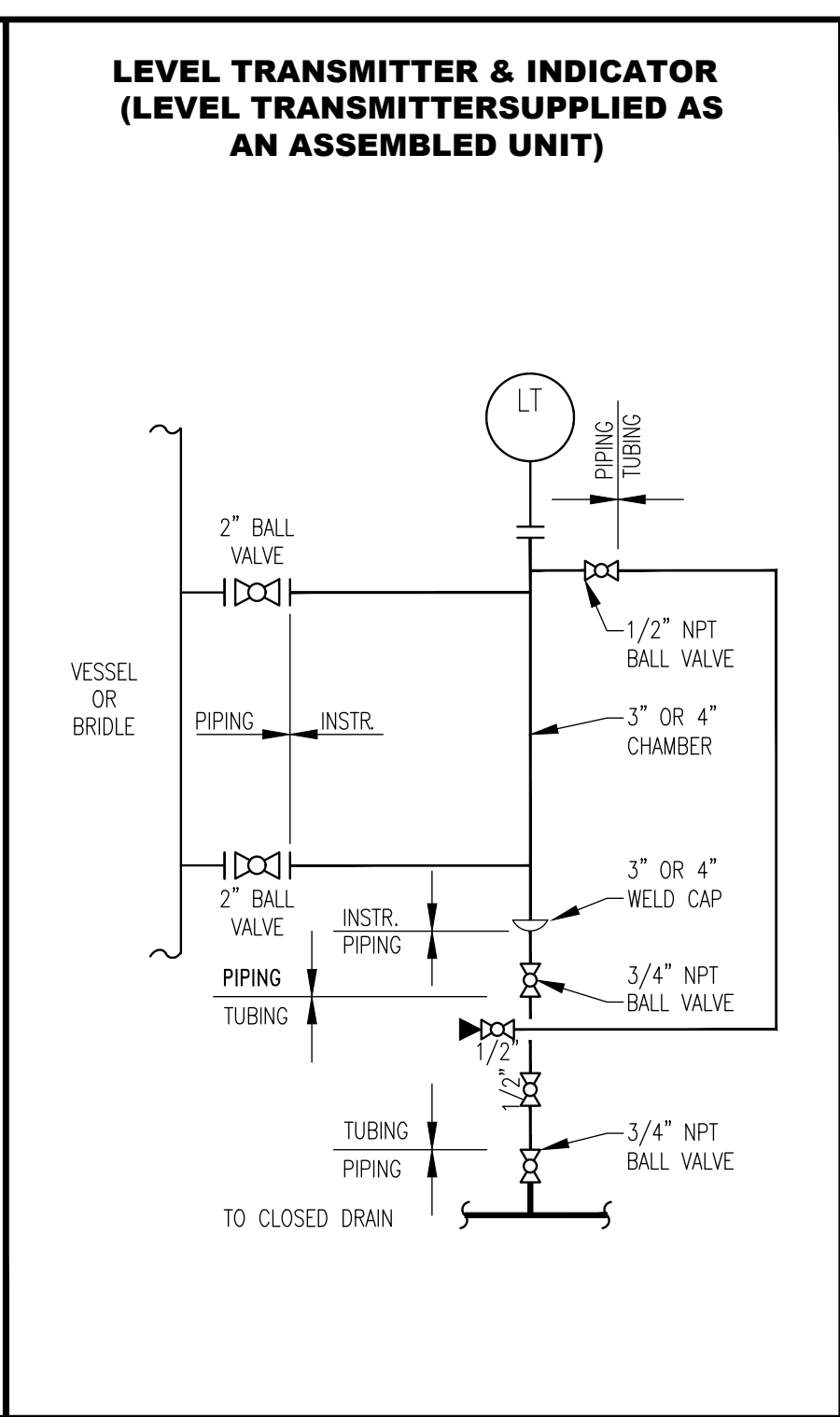
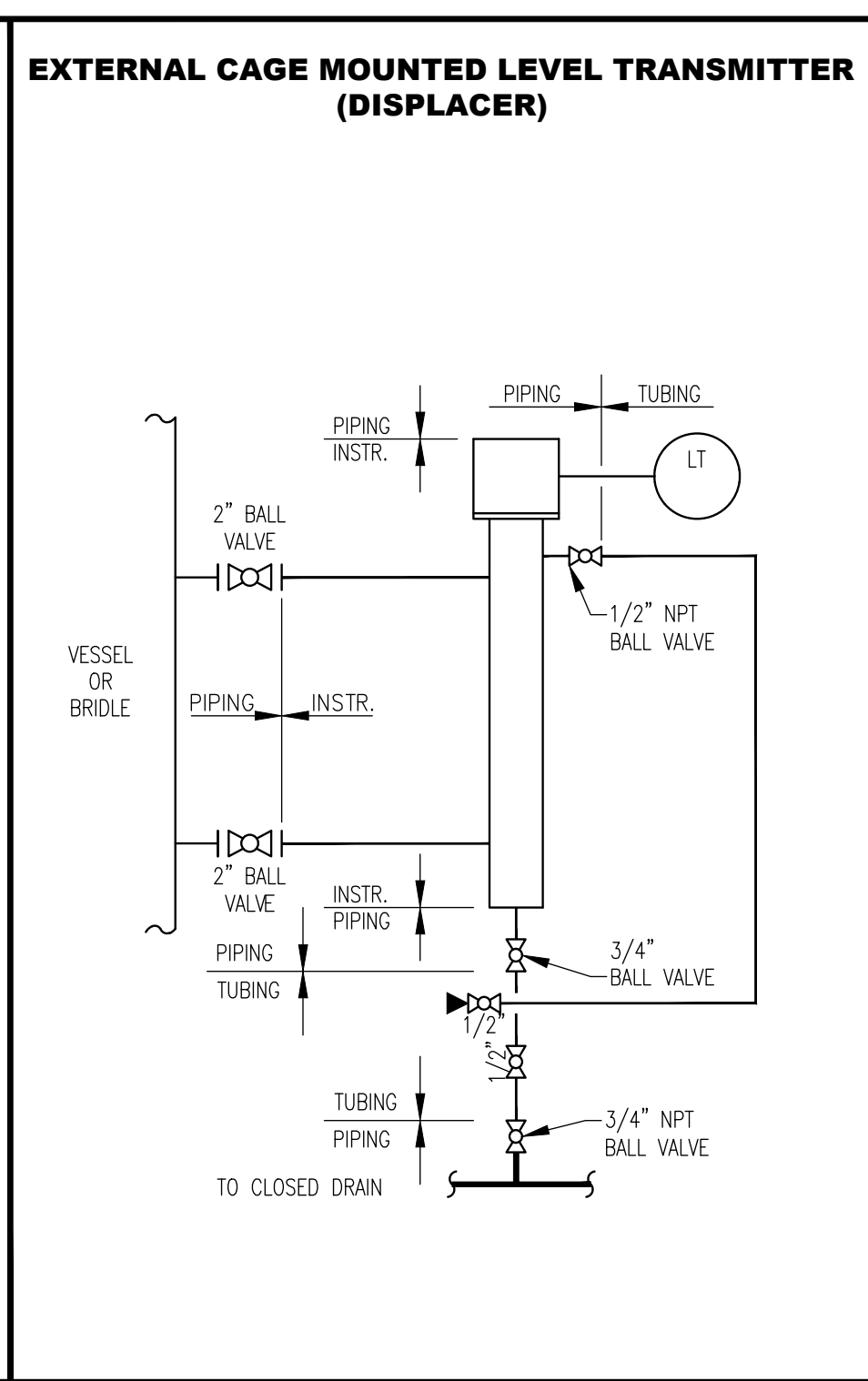
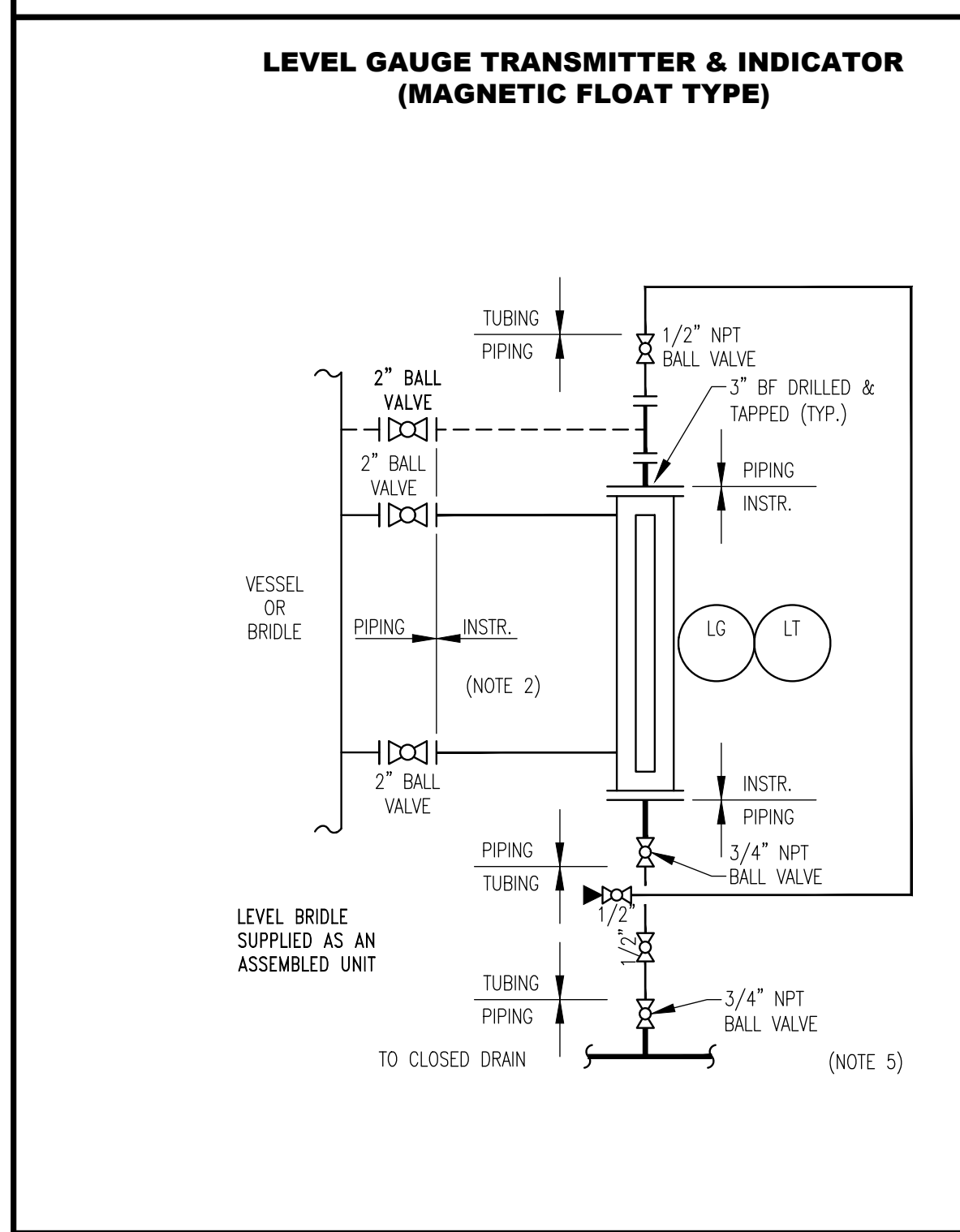


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EQUIPMENT NUMBERING STANDARD			PIPE LINE NUMBERING STANDARD			PIPING SYMBOLS																								
<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>EQUIPMENT IDENTIFICATION CODE</div><div>AREA NUMBER</div><div>TRAIN NUMBER(*)</div><div>EQUIPMENT ID</div></div> <div>*TRAIN NUMBER (USE 0 FOR COMMON EQUIPMENT)(OR COMPRESSOR UNIT NUMBER – CTF SITES ONLY)</div> <div>INSTRUMENTATION NUMBERS – MATCH EQUIPMENT ID AND INCREMENT NUMERICALLY ONLY.</div> <div>ELECTRICAL NUMBERS – MATCH EQUIPMENT ID AND INCREMENT NUMERICALLY ONLY.</div> <div>ALPHAS ONLY AS APPROVED BY APC ENGINEERING.</div>			<div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div><div>PIPE SIZE</div><div>SERVICE IDENTIFICATION</div><div>SEQUENTIAL NUMBER</div></div> <div>INSULATION THICKNESS</div> <div>TRACING TYPE</div> <div>INSULATION TYPE</div> <div>PIPE SPECIFICATION</div>			<div>FLOW SHEET LINE TYPES</div> <div>MAJOR</div> <div>MAJOR SECONDARY</div> <div>MINOR</div> <div>MINOR SECONDARY</div> <div>SKID LIMITS</div>					<div>VALVES</div> <div>BALL VALVE</div> <div>GATE VALVE</div> <div>GLOBE VALVE</div> <div>PLUG VALVE</div> <div>CHECK VALVE</div> <div>CHECK VALVE – PISTON</div> <div>NEEDLE VALVE</div> <div>BUTTERFLY VALVE</div> <div>INLINE CHOKE VALVE</div> <div>ANGLE CHOKE</div> <div>DIAPHRAGM VALVE</div> <div>GAUGE VALVE</div> <div>BLOCK & BLEED VALVE</div> <div>EXCESS FLOW VALVE</div> <div>ANGLE VALVE</div> <div>CONVENTIONAL PRESSURE RELIEF VALVE</div> <div>PILOT RELIEF VALVE</div> <div>ANGLE VALVE w/ HANDLE</div> <div>DIAPHRAGM GATE VALVE</div> <div>DIAPHRAGM BALL VALVE</div> <div>PRESSURE REGULATOR GATE VALVE</div> <div>PRESSURE REGULATOR BALL VALVE</div> <div>PISTON OPERATED GATE VALVE</div> <div>PISTON OPERATED BALL VALVE</div> <div>SOLENOID GATE VALVE</div> <div>SOLENOID BALL VALVE</div> <div>ANGLE DIAPHRAGM VALVE</div> <div>3-WAY DIAPHRAGM VALVE</div> <div>3-WAY SOLENOID VALVE</div> <div>3-WAY SPRING OPPOSED VALVE</div> <div>3-WAY THERMOSTATIC VALVE</div> <div>3-WAY VALVE</div> <div>3-WAY VALVE w/ HANDLE</div> <div>3-WAY RELIEF VALVE</div>					<div>FLANGES</div> <div>BLIND FLANGE OR LINE TERMINATION</div> <div>UNION</div> <div>SR/JR</div> <div>ORIFICE</div> <div>ORIFICE CLOSED</div> <div>ORIFICE PADDLE</div> <div>FLOW TRANSMITTER WITH GATE VALVE</div> <div>FLOW TRANSMITTER WITH BALL VALVE</div> <div>FLOW TRANSMITTER WITH NEEDLE VALVE</div> <div>BLEED RING WITH GATE VALVE</div> <div>BLEED RING WITH BALL VALVE</div> <div>SPECTACLE BLIND OPEN POSITION</div> <div>SPECTACLE BLIND CLOSED POSITION</div> <div>PADDLE BLIND CLOSED POSITION</div> <div>PADDLE BLIND OPEN POSITION</div> <div>NOZZLES</div> <div>COUPLING</div> <div>FRONT VIEW CONNECTION</div> <div>NOZZLE BLINDED</div> <div>NOZZLE FLANGED</div> <div>MANWAY SINGLE LINE (SIDE VIEW)</div> <div>MANWAY (SIDE VIEW)</div> <div>MANWAY (FRONT VIEW)</div> <div>TANK CLEANOUT</div> <div>EQUIPMENT NOZZLE CALLOUT</div>					<div>INLINES</div> <div>Y" TYPE STRAINER</div> <div>Y" TYPE STRAINER WITH GATE VALVE</div> <div>Y" TYPE STRAINER WITH BALL VALVE</div> <div>INSULATION (SEE TABLE)</div> <div>INSULATION WITH HEAT TRACE (SEE TABLE)</div> <div>INSULATION WITH GLYCOL HEAT TRACE</div> <div>EQUIPMENT INSULATION</div> <div>TURBINE METER</div> <div>POSITIVE DISPLACEMENT METER</div> <div>MAGNETIC FLOW METER</div> <div>ULTRASONIC METER</div> <div>INLINE MIXER</div> <div>BASKET STRAINER</div> <div>FILTER</div> <div>INLINE STRAINER</div> <div>CONE STRAINER</div> <div>START UP STRAINER (WITCH HAT)</div> <div>EXPANSION JOINT</div> <div>ROTAMETER FLOW INDICATOR</div> <div>V-CONE METER</div> <div>VENTURI TUBE OR FLOW NOZZLE</div> <div>VENTURI TUBE WITH TAPS</div> <div>STRAIGHTENING VANES</div> <div>FLOW CONDITIONER</div> <div>VORTEX SENSOR</div> <div>ANNUBAR</div> <div>MASS FLOW CORIOLIS METER</div> <div>CORIOLIS METER</div> <div>RUPTURE DISK</div> <div>RUPTURE DISK (PRESSURE)</div> <div>RUPTURE DISK (VACUUM)</div> <div>EXCESS FLOW PREVENTER/MIXER</div> <div>DIAPHRAGM SEAL</div> <div>CHEMICAL SEAL</div> <div>PITOT TUBE OR PITOT VENTURI TUBE</div> <div>FLOW CONDITIONER</div>					<div>MISCELLANEOUS</div> <div>DRESSER COUPLING</div> <div>MATERIAL, AG/BG, INSULATION, PIPING SPEC OR SOW CHANGE</div> <div>FLEXIBLE HOSE FLANGED</div> <div>FLEXIBLE HOSE</div> <div>TRUCK CONNECTION/ BOW & CAP</div> <div>AGITATOR</div> <div>TRUCK (BACK VIEW)</div> <div>TRUCK (SIDE VIEW)</div> <div>RAILCAR</div> <div>Y-TRAP OPEN DRAIN</div> <div>LIQUID SEAL X"=HEIGHT</div> <div>VENT</div> <div>TIE IN TO EXISTING PIPING OR PIPING BY OTHERS</div> <div>SPECIALITY ITEM</div> <div>INSULATING FLANGE KIT</div> <div>CORROSION COUPON</div> <div>PROCESS STREAM FLOW</div> <div>FLAME ARRESTOR</div> <div>MIST PAD OR MIST ELIMINATOR</div> <div>VORTEX BREAKER</div> <div>EJECTOR OR EDUCTOR</div> <div>SLOPE POINTED IN DOWNHILL SIDE</div> <div>PLUG</div> <div>BULL PLUG</div> <div>CAP WELDED/PIPE/ LINE OR TERMINATION</div> <div>CAP THREADED</div> <div>INSTRUMENT BREAK</div> <div>VENT TO ATMOS</div> <div>VENT WITH BUG SCREEN</div> <div>PIG PASSAGE INDICATOR (PIG SIG)</div>				
<div>EQUIPMENT IDENTIFICATION CODE</div> <div>AC-#### AIR COOLED FIN FAN</div> <div>C-#### COMPRESSOR</div> <div>E-#### EXCHANGER</div> <div>F-#### FILTER</div> <div>H-#### FIRED HEATERS</div> <div>M-#### MOTOR</div> <div>P-#### PUMP</div> <div>R-#### REACTOR</div> <div>T-#### TOWER</div> <div>TK-#### TANK ATMOSPHERE</div> <div>V-#### VESSEL, PROCESS</div> <div>VS-#### VESSEL, STORAGE</div> <div>FL-#### SPECIALTY I.E., VENT STACK, FLARE, INCINERATOR, ECD</div> <div>TO-#### THERMAL OXIDIZER</div> <div>X-#### MISC. EQUIPMENT</div>			<div>EQUIPMENT NUMBERING SYSTEM</div> <div>COMPRESSOR STATIONS & OIL PUMPING FACILITIES</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>INLET GAS AREA</div> <div>SLUG CATCHERS & SEPARATORS</div> <div>20000</div> <div>CRUDE OIL TRANSFER EQUIPMENT</div> <div>LINE HEATERS, PUMPS & SURGE VESSELS</div> <div>30000</div> <div>CONDENSATE HANDLING</div> <div>PUMPS, WATER SEPARATION & SURGE/STORAGE</div> <div>40000</div> <div>COMPRESSION</div> <div>ENGINE/COMP. SKID EQUIP., COOLERS, ON-SKID SEPARATORS</div> <div>50000</div> <div>DISCHARGE SEPARATION, DEHYDRATION</div> <div>DISCHARGE SEPARATORS, FILTERS & DEHYDRATION EQUIP.</div> <div>60000</div> <div>AMINE SYSTEM</div> <div>CONTACTOR, REGEN SYSTEM & FILTERS</div> <div>70000</div> <div>OUTLET AREA</div> <div>GAS METERS, LACTS, PUMPS & STORAGE</div> <div>80000</div> <div>SWD</div> <div>TANKS & PUMPS</div> <div>90000</div> <div>FLARE & UTILITIES</div> <div>OIL STABILIZATION FACILITIES</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>INLET AREA</div> <div>SLUG CATCHERS, SURGE/SEPARATOR VESSELS, LACTS & INLET HEATERS</div> <div>20000</div> <div>PROCESS EQUIPMENT</div> <div>VESSELS, TOWERS, EXCHANGERS, REFLUX SYSTEM</div> <div>30000</div> <div>COMPRESSION</div> <div>COMPRESSORS, AFTERCOOLERS, COMPRESSOR ASSOCIATED VESSELS</div> <div>40000</div> <div>NGL STORAGE AND LACT</div> <div>STORAGE VESSELS, PUMPS, METERS, LP GAS METERS</div> <div>50000</div> <div>PRODUCT COOLING</div> <div>HEAT EXCHANGERS, CHILLERS, PUMPS, REFRIGERANT COMPRESSORS</div> <div>60000</div> <div>OUTLET AREA</div> <div>OIL BOOSTER PUMPS, OIL PIPELINE PUMPS, OIL LACT</div> <div>70000</div> <div>HEAT MEDIUM SYSTEM</div> <div>HEATERS, HM PUMPS, FILTERS</div> <div>80000</div> <div>FLARE & UTILITIES</div> <div>FLARE, KNOCKOUTS, ECD'S, T.O., AIR COMPRESSORS, DRAINS, FUEL GAS</div> <div>GAS PLANTS</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>INLET GAS AREA</div> <div>SLUG CATCHERS & SEPARATORS</div> <div>20000</div> <div>CRUDE OIL TRANSFER EQUIPMENT</div> <div>LINE HEATERS, PUMPS & SURGE VESSELS</div> <div>30000</div> <div>CONDENSATE HANDLING</div> <div>PUMPS, WATER SEPARATION & SURGE/STORAGE</div> <div>40000</div> <div>COMPRESSION</div> <div>ENGINE/COMP. SKID EQUIP., COOLERS, ON-SKID SEPARATORS</div> <div>50000</div> <div>DISCHARGE SEPARATION, DEHYDRATION</div> <div>DISCHARGE SEPARATORS, FILTERS & DEHYDRATION EQUIP.</div> <div>60000</div> <div>AMINE SYSTEM</div> <div>CONTACTOR, REGEN SYSTEM & FILTERS</div> <div>70000</div> <div>OUTLET AREA</div> <div>GAS METERS, LACTS, PUMPS & STORAGE</div> <div>80000</div> <div>SWD</div> <div>TANKS & PUMPS</div> <div>90000</div> <div>FLARE & UTILITIES</div> <div>PRODUCTION FACILITIES</div> <div>AREA NUMBERS</div> <div>AREA REFERENCED</div> <div>TYPICAL EQUIPMENT</div> <div>10000</div> <div>WELL HEADS</div> <div>WELL HEADS & METHANOL TANKS</div> <div>20000</div> <div>INLET AREA</div> <div>SEPARATORS, BURNER UNITS, BURNER MANAGEMENT, FUEL SCRUBBERS</div> <div>30000</div> <div>OIL SYSTEM</div> <div>BULK SEPARATORS, VAPOR RECOVERY TOWERS & LACTS</div> <div>40000</div> <div>GAS SYSTEM</div> <div>GAS SCRUBBERS, DEHY, AMINE & GAS METERS</div> <div>50000</div> <div>FLARE SYSTEMS</div> <div>FLARES, VENT & PURGE SYSTEMS, ECDs</div> <div>60000</div> <div>STORAGE AREA</div> <div>OIL TANKS, WATER TANKS, RECIRC PUMPS</div> <div>70000</div> <div>UTILITIES</div> <div>AIR COMPRESSORS, GENERATORS</div> <div>80000</div> <div>GAS COMPRESSORS</div> <div>VRUS & GAS COMPRESSORS</div> <div>90000</div> <div>WATER TRAIN</div> <div>SWD PUMPS & WATER METERS</div>			<div>PIPE SPECIFICATIONS NAMING CONVENTION</div> <div>FLANGE CLASS</div> <div>MATERIAL</div> <div>SERVICE</div> <div>GOVERNING CODE</div> <div>FLANGE CLASS</div> <div>MATERIAL</div> <div>SERVICE</div> <div>GOVERNING CODE</div> <div>A – CL 150</div> <div>E – CL 900</div> <div>C – CARBON STEEL</div> <div>B – CL 300</div> <div>F – CL 1500</div> <div>L – LOW TEMP. CARBON STEEL</div> <div>D – CL 600</div> <div>G – CL 2500</div> <div>S – STAINLESS STEEL</div> <div>P – HDPE/PVC</div> <div>GOVERNING CODE</div> <div>1 – ASME B31.1</div> <div>3 – ASME B31.3</div> <div>4 – ASME B31.4</div> <div>8 – ASME B31.8</div> <div>A – GENERAL SERVICE</div> <div>B – SOUR SERVICE</div> <div>C-Z – OTHER SERVICE FLUIDS</div> <div>L – DRAINS, GLYCOL, CRUDE OIL</div>			<div>VALVE CONNECTIONS</div> <div>THREADED/SOCKET WELD VALVE</div> <div>FLANGED VALVE</div> <div>REDUCERS</div> <div>CONCENTRIC</div> <div>ECENTRIC (FOB) OR (FSD)</div> <div>ECENTRIC (FOT) OR (FSU)</div> <div>SWAGE</div> <div>CONTROL ACTUATORS</div> <div>DIAPHRAGM OPERATOR</div> <div>COUNTERWEIGHT ACTUATOR VALVE</div> <div>PRESSURE REGULATOR SELF-CONTAINED</div> <div>DIAPHRAGM w/ HANDWHEEL</div> <div>PISTON OPERATOR</div> <div>PRESSURE REGULATOR w/ EXTERNAL PRESSURE TAP</div> <div>PRESSURE REGULATOR SELF-CONTAINED w/ ADJUSTING KNOB</div> <div>VALVE ACTUATOR AND POSITIONER</div> <div>MISCELLANEOUS ACTUATORS</div> <div>HANDWHEEL ACTUATOR</div> <div>ELECTROHYDRAULIC ACTUATOR</div> <div>ELECTRIC MOTOR ACTUATOR</div> <div>SOLENOID NON-LATCHING</div> <div>SOLENOID LATCHING</div> <div>R=LOCAL RESET</div> <div>E=ELECTRIC RESET</div>					<div>LINKS AND FLOW ARROWS</div> <div>INDICATES PROCESS INPUT/OUTPUT & FLOW DIRECTION FROM OR TO OTHER AREAS</div> <div>P&ID TO/FROM EQUIPMENT</div> <div>DUAL FLOW</div> <div>P&ID TO/FROM EQUIPMENT</div> <div>CONTINUATION ARROW FROM/TO OUTSIDE SCOPE</div> <div>CONTINUATION OF INSTRUMENT SYMBOL</div> <div>INSTRUMENT</div> <div>P&ID TO/FROM</div> <div>FLOW DIRECTION ARROW</div>																
NOTES:			REFERENCE DRAWINGS			REVISIONS					PIPING & INSTRUMENTATION DIAGRAM MECHANICAL LEGEND																			
						<div>INITIAL RELEASE FOR ENGINEERING STANDARD</div> <div>ISSUED FOR REVIEW</div> <div>ISSUED FOR REVIEW</div> <div>ISSUED FOR REVIEW</div> <div>ISSUED FOR REVIEW</div> <div>ISSUED FOR REVIEW</div>					<div>DRAWN BY: MJ</div> <div>APPROVED: –</div> <div>SCALE: NONE</div>					<div>CREATION DATE: –</div> <div>APPR. DATE: –</div> <div>OXY-PID-STD-00010</div> <div>SHEET No. 10F 4</div>														
DWG. NO.			TITLE			NO.			DESCRIPTION			DATE			DATE			DATE			DATE									

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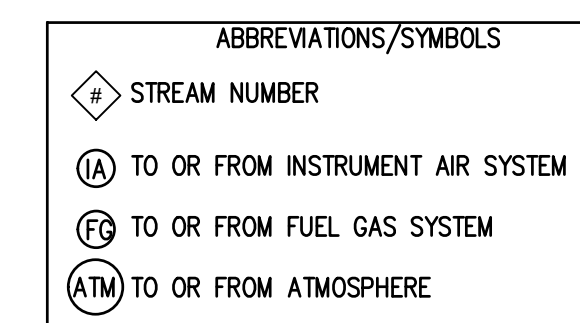
TANKS	VESSELS			EXCHANGERS		PUMPS																			
FLAT ROOF	VERTICAL VESSEL	VERTICAL VESSEL WITH SKIRT	EXCHANGER - DOUBLE END		PUMP - VERTICAL (Y AXIS)																				
					PUMP - HORIZONTAL (Y AXIS)																				
					PUMP - CENTRIFUGAL (Y AXIS)																				
					PUMP - DUAL																				
SLOPING ROOF	VERTICAL VESSEL WITH CONE	VERTICAL VESSEL WITH SKIRT & CONE	EXCHANGER - SINGLE END		PUMP - SUMP (Y AXIS)																				
					PUMP - INLINE (Y AXIS)																				
FLOATING ROOF	VERTICAL FLAT BOTTOM VESSEL	HORIZONTAL VESSEL	EXCHANGER - DOUBLE END KETTLE		PUMP - ROTARY																				
					PUMP - VACUUM																				
			EXCHANGER - SINGLE END KETTLE		PUMP - WITH STEAM TURBINE																				
					PUMP - AIR OPERATED PUMP																				
	HORIZONTAL VESSEL WITH ECCENTRIC	CENTRIFUGAL COMPRESSOR	EXCHANGER - SUPER	EXCHANGER - PROCESS FLOW	PUMP - DIAPHRAM																				
			LEAN/RICH AMINE EXCHANGER	FUEL GAS HEATER	PULSATION DAMPENER																				
					MOTOR																				
			AFTER COOLER WITH MOTOR		EQUIPMENT TAG																				
					TAG DESC - - - - TAG																				
NOTES:	REFERENCE DRAWINGS		REVISIONS		<div></div> <div>OXY STANDARD</div>		PIPING & INSTRUMENTATION DIAGRAM EQUIPMENT LEGEND																		
DWG. NO.		TITLE		NO.		DESCRIPTION		BY		DATE		CHK.		DATE		APPR.		DATE		SHEET No.		2 OF 4		3	





REFERENCE DRAWINGS		REVISIONS							
		△							
		△							
		△							
		△	INITIAL RELEASE FOR ENGINEERING STANDARD	JRF	05/24/19	MJ	05/24/19	RFM	05/24/19
		△	ISSUED FOR REVIEW	JRF	03/27/18				
		△	ISSUED FOR APC STANDARD	MJ	10/27/17	SH	10/27/17	PA	10/27/17
DWG. NO.	TITLE	NO.	DESCRIPTION	BY	DATE	CHK.	DATE	APPR.	DATE

DRAWN BY: MJ	CREATION DATE: —	AFE No.:	
APPROVED: —	APPR. DATE: —		
SCALE: NONE	DWG. No.:	SHEET No.	
	OXY-PID-STD-00013	4 OF 4	

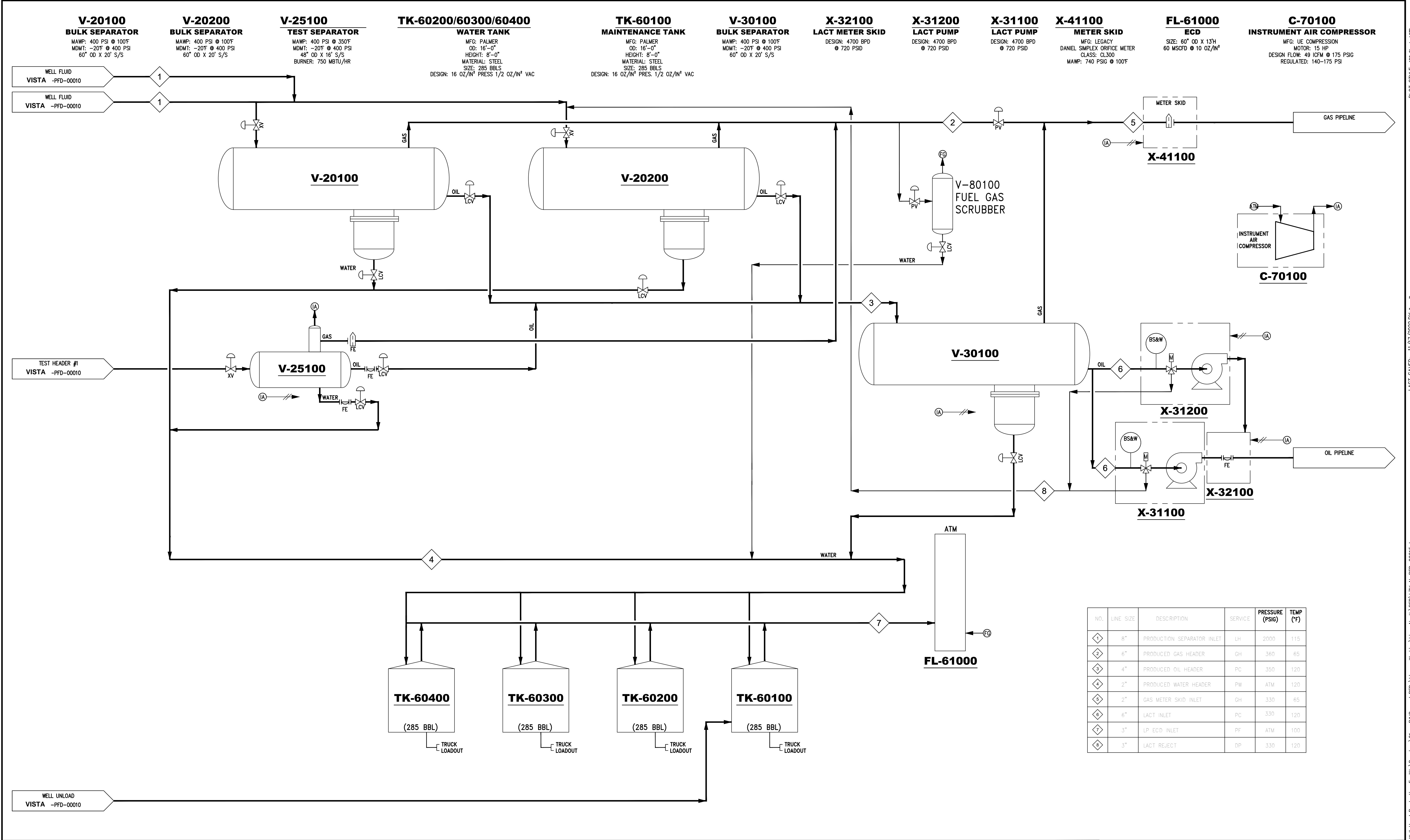
SK-15100-15400
WELLHEAD MANIFOLD
(3 PACK)



FILE LOCATION: P:\14046 - Well Head Production Facility\Drawings\01 - P&IDs and PFDs\Lizzy- Working\North\PFD\LZY_N-PFD-00010.dwg

NOTES:	REFERENCE DRAWINGS		REVISIONS						Kerr-McGee Oil & Gas Onshore LP	PROCESS FLOW DIAGRAM PRODUCTION FACILITY			
		 ISSUED FOR PERMIT	TCT	11/18/22	WB	11/18/22	JTK	11/18/22	VISTA	DRAWN BY: TCT CREATION DATE: 11/17/22 AFE No.: —			
DWG. NO.	TITLE	NO.	DESCRIPTION	BY	DATE	CHK	DATE	APPR.		DATE	APPROVED: MB	APPR. DATE: 11/17/22	
										DWG. No.: VISTA -PFD-00010	SHEET No. — OF — 		
										SCALE: —			

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NOTES:	REFERENCE DRAWINGS		REVISIONS						Kerr-McGee Oil & Gas Onshore LP				PROCESS FLOW DIAGRAM PRODUCTION FACILITY					

