TETRA TECH

PRESSURE INSTRUMENTS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number		REV	
201.01		0	
Contract		Date	
		1/29/2021	
Requisition / P.O. Number			
By	Checked	Approved	
JSC			

GENERAL	1	Tag Number:	PIT-101
	2	Service:	PUMPING STATION POTABLE WATER INFLUENT PRESSURE
	3	Function:	☐ Record ■ Indicate ☐ Control ☐ Blind ■ Transmit
	4		☐ Integrate ☐ Other -
	5	Case:	■ Mfg. Std. ☐ Other -
	6	Color:	■ Mfg. Std. ☐ Other -
	7	Mounting:	☐ Flush ■ Surface ☐ Yoke ☐ Other -
	8	Enclosure Class:	■ General Purpose ☐ Weather Proof ☐ Explosion Proof (NEMA Class -)
	9		☐ For Use in Intrinsically Safe System ☐ Other -
	10	Power Supply:	☐ 120 vac 60 Hz ☐ Other AC - ■ DC - 24vdc LOOP
	11	Chart:	☐ 12" Circular ☐ Other -
	12	Chart Drive:	☐ 24 Hour ☐ Other - ☐ Electric ☐ Spring ☐ Other -
	13	Scale:	Type - Range: 1 2 3
TRANSMITTER	14	Transmitter Output:	■ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
	15		For Receiver See Data Sheet:
CONTROLLER	16	Control Modes:	P = Proportional (Gain) I = Integral (Auto Reset) D = Derivative (Rate) Subscript: S = Slow, F = Fast
	17		☐ P ☐ PI ☐ PD ☐ PID ☐ I_F ☐ D_F ☐ I_S ☐ D_S
	18		☐ Other -
	19	Action:	On Measured Increase Output Will ☐ Increase ☐ Decrease
	20	Auto / Manual Switch:	☐ None ☐ Mfg. Std. ☐ Other -
	21	Set Point Adjustment:	☐ Manual ☐ External ☐ Remote ☐ Other -
	22	Manual Regulation:	☐ None ☐ Mfg. Std. ☐ Other -
	23	Output:	☐ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
UNIT	24	Service:	■ Gauge Pressure ☐ Vacuum ☐ Absolute Pressure ☐ Compound
	25	Element Type:	■ Diaphragm ☐ Helix ☐ Bourdon ☐ Bellows ☐ Other -
	26	Material:	■ 316 SS ☐ BeCu ☐ Other -
	27	Range:	☐ Fixed At - ■ Adjustable - 0-150 PSIG ■ Set At - 0-150 PSIG
	28		Overrange Protection to - 1,500 PSI
	29	Process Data:	Element range - (P) 11,016 PSI (T) -40 - 176°F
	30		P_{NORM} - 100 psig P_{MAX} - 125 psig T_{NORM} - 50°F T_{MAX} - 60°F
	31	Process Connection:	☐ 1/4" FNPT ■ 1/2" FNPT ☐ Other -
	32		Location - ■ Bottom ☐ Back ☐ Other -
SWITCHES	33	Alarm Switches:	Quantity - Form - Rating -
	34	Function:	☐ Process ☐ Deviation Contacts to ☐ open ☐ close on increasing measurement
OPTIONS	35	Options:	☐ Filter Regulator ☐ Supply Gauge ☐ Output Gauge ☐ Charts -
	36		☐ Diaphragm Seal Type - Matl. - Bottom Bowl -
	37		Connection - Fill - ☐ Capillary Length - Matl. -
	38		■ INCLUDE INSTRUMENT BLOCK AND BLEED VALVE - ANDERSON GREENWOOD M9VIS-4MC OR EQUAL.
	39		☐
	40		☐
	41		☐
MANUFACTURER	42	Manufacturer:	ROSEMOUNT
	43	Model Number:	3051T

NOTES: 1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.

TETRA TECH

PRESSURE INSTRUMENTS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number		REV	
201.02		0	
Contract		Date	
		1/29/2021	
Requisition / P.O. Number			
By	Checked	Approved	
JSC			

GENERAL	1	Tag Number:	PIT-301
	2	Service:	POTABLE WATER HIGH SERVICE PUMPS SUCTION PRESSURE
	3	Function:	☐ Record ■ Indicate ☐ Control ☐ Blind ■ Transmit
	4		☐ Integrate ☐ Other -
	5	Case:	■ Mfg. Std. ☐ Other -
	6	Color:	■ Mfg. Std. ☐ Other -
	7	Mounting:	☐ Flush ■ Surface ☐ Yoke ☐ Other -
	8	Enclosure Class:	■ General Purpose ☐ Weather Proof ☐ Explosion Proof (NEMA Class -)
	9		☐ For Use in Intrinsically Safe System ☐ Other -
	10	Power Supply:	☐ 120 vac 60 Hz ☐ Other AC - ■ DC - 24vdc LOOP
	11	Chart:	☐ 12" Circular ☐ Other -
	12	Chart Drive:	☐ 24 Hour ☐ Other - ☐ Electric ☐ Spring ☐ Other -
	13	Scale:	Type - Range: 1 2 3
TRANSMITTER	14	Transmitter Output:	■ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
	15		For Receiver See Data Sheet:
CONTROLLER	16	Control Modes:	P = Proportional (Gain) I = Integral (Auto Reset) D = Derivative (Rate) Subscript: S = Slow, F = Fast
	17		☐ P ☐ PI ☐ PD ☐ PID ☐ I_F ☐ D_F ☐ I_S ☐ D_S
	18		☐ Other -
	19	Action:	On Measured Increase Output Will ☐ Increase ☐ Decrease
	20	Auto / Manual Switch:	☐ None ☐ Mfg. Std. ☐ Other -
	21	Set Point Adjustment:	☐ Manual ☐ External ☐ Remote ☐ Other -
	22	Manual Regulation:	☐ None ☐ Mfg. Std. ☐ Other -
	23	Output:	☐ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
UNIT	24	Service:	■ Gauge Pressure ☐ Vacuum ☐ Absolute Pressure ☐ Compound
	25	Element Type:	■ Diaphragm ☐ Helix ☐ Bourdon ☐ Bellows ☐ Other -
	26	Material:	■ 316 SS ☐ BeCu ☐ Other -
	27	Range:	☐ Fixed At - ■ Adjustable - 0-150 PSIG ■ Set At - 0-30 PSIG
	28		Overrange Protection to - 1,500 PSI
	29	Process Data:	Element range - (P) 11,016 PSI (T) -40 - 176°F
	30		P_{NORM} - 100 psig P_{MAX} - 125 psig T_{NORM} - 50°F T_{MAX} - 60°F
	31	Process Connection:	☐ 1/4" FNPT ■ 1/2" FNPT ☐ Other -
	32		Location - ■ Bottom ☐ Back ☐ Other -
SWITCHES	33	Alarm Switches:	Quantity - Form - Rating -
	34	Function:	☐ Process ☐ Deviation Contacts to ☐ open ☐ close on increasing measurement
OPTIONS	35	Options:	☐ Filter Regulator ☐ Supply Gauge ☐ Output Gauge ☐ Charts -
	36		☐ Diaphragm Seal Type - Matl. - Bottom Bowl -
	37		Connection - Fill - ☐ Capillary Length - Matl. -
	38		■ INCLUDE INSTRUMENT BLOCK AND BLEED VALVE - ANDERSON GREENWOOD M9VIS-4MC OR EQUAL.
	39		☐
	40		☐
	41		☐
MANUFACTURER	42	Manufacturer:	ROSEMOUNT
	43	Model Number:	3051T

NOTES: 1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.

TETRA TECH

PRESSURE INSTRUMENTS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number: 201.03			REV: 0
Contract			Date: 01/29/1021
Requisition / P.O. Number			
By: JSC	Checked		Approved

GENERAL	1	Tag Number:	PIT-302
	2	Service:	POTABLE WATER HIGH SERVICE PUMP DISCHARGE PRESSURE
	3	Function:	☐ Record ■ Indicate ☐ Control ☐ Blind ■ Transmit
	4		☐ Integrate ☐ Other -
	5	Case:	■ Mfg. Std. ☐ Other -
	6	Color:	■ Mfg. Std. ☐ Other -
	7	Mounting:	☐ Flush ■ Surface ☐ Yoke ☐ Other -
	8	Enclosure Class:	■ General Purpose ☐ Weather Proof ☐ Explosion Proof (NEMA Class -)
	9		☐ For Use in Intrinsically Safe System ☐ Other -
	10	Power Supply:	☐ 120 vac 60 Hz ☐ Other AC - ■ DC - 24vdc LOOP
	11	Chart:	☐ 12" Circular ☐ Other -
	12	Chart Drive:	☐ 24 Hour ☐ Other - ☐ Electric ☐ Spring ☐ Other -
	13	Scale:	Type - Range: 1 2 3
TRANSMITTER	14	Transmitter Output:	■ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
	15		For Receiver See Data Sheet:
CONTROLLER	16	Control Modes:	P = Proportional (Gain) I = Integral (Auto Reset) D = Derivative (Rate) Subscript: S = Slow, F = Fast
	17		☐ P ☐ PI ☐ PD ☐ PID ☐ I_F ☐ D_F ☐ I_S ☐ D_S
	18		☐ Other -
	19	Action:	On Measured Increase Output Will ☐ Increase ☐ Decrease
	20	Auto / Manual Switch:	☐ None ☐ Mfg. Std. ☐ Other -
	21	Set Point Adjustment:	☐ Manual ☐ External ☐ Remote ☐ Other -
	22	Manual Regulation:	☐ None ☐ Mfg. Std. ☐ Other -
	23	Output:	☐ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
UNIT	24	Service:	■ Gauge Pressure ☐ Vacuum ☐ Absolute Pressure ☐ Compound
	25	Element Type:	■ Diaphragm ☐ Helix ☐ Bourdon ☐ Bellows ☐ Other -
	26	Material:	■ 316 SS ☐ BeCu ☐ Other -
	27	Range:	☐ Fixed At - ■ Adjustable - 0-150 PSIG ■ Set At - 0-150 PSIG
	28		Overrange Protection to - 1,500 PSI
	29	Process Data:	Element range - (P) 11,016 PSI (T) -40 - 176°F
	30		P_{NORM} - 110 psig P_{MAX} - 125 psig T_{NORM} - 50°F T_{MAX} - 60°F
	31	Process Connection:	☐ 1/4" FNPT ■ 1/2" FNPT ☐ Other -
	32		Location - ■ Bottom ☐ Back ☐ Other -
SWITCHES	33	Alarm Switches:	Quantity - Form - Rating -
	34	Function:	☐ Process ☐ Deviation Contacts to ☐ open ☐ close on increasing measurement
OPTIONS	35	Options:	☐ Filter Regulator ☐ Supply Gauge ☐ Output Gauge ☐ Charts -
	36		☐ Diaphragm Seal Type - Matl. - Bottom Bowl -
	37		Connection - Fill - ☐ Capillary Length - Matl. -
	38		■ INCLUDE INSTRUMENT BLOCK AND BLEED VALVE - ANDERSON GREENWOOD M9VIS-4MC OR EQUAL.
	39		☐
	40		☐
	41		☐
MANUFACTURER	42	Manufacturer:	ROSEMOUNT
	43	Model Number:	3051T

NOTES: 1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.

TETRA TECH

PRESSURE INSTRUMENTS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number		REV	
201.04		0	
Contract		Date	
		1/29/2021	
Requisition / P.O. Number			
By	Checked	Approved	
JSC			

GENERAL	1	Tag Number:	PIT-401
	2	Service:	POTABLE WATER RESIDENTIAL SERVICE PUMPS SUCTION PRESSURE
	3	Function:	☐ Record ■ Indicate ☐ Control ☐ Blind ■ Transmit
	4		☐ Integrate ☐ Other -
	5	Case:	■ Mfg. Std. ☐ Other -
	6	Color:	■ Mfg. Std. ☐ Other -
	7	Mounting:	☐ Flush ■ Surface ☐ Yoke ☐ Other -
	8	Enclosure Class:	■ General Purpose ☐ Weather Proof ☐ Explosion Proof (NEMA Class -)
	9		☐ For Use in Intrinsically Safe System ☐ Other -
	10	Power Supply:	☐ 120 vac 60 Hz ☐ Other AC - ■ DC - 24vdc LOOP
	11	Chart:	☐ 12" Circular ☐ Other -
	12	Chart Drive:	☐ 24 Hour ☐ Other - ☐ Electric ☐ Spring ☐ Other -
	13	Scale:	Type - Range: 1 2 3
TRANSMITTER	14	Transmitter Output:	■ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
	15		For Receiver See Data Sheet:
CONTROLLER	16	Control Modes:	P = Proportional (Gain) I = Integral (Auto Reset) D = Derivative (Rate) Subscript: S = Slow, F = Fast
	17		☐ P ☐ PI ☐ PD ☐ PID ☐ I_F ☐ D_F ☐ I_S ☐ D_S
	18		☐ Other -
	19	Action:	On Measured Increase Output Will ☐ Increase ☐ Decrease
	20	Auto / Manual Switch:	☐ None ☐ Mfg. Std. ☐ Other -
	21	Set Point Adjustment:	☐ Manual ☐ External ☐ Remote ☐ Other -
	22	Manual Regulation:	☐ None ☐ Mfg. Std. ☐ Other -
	23	Output:	☐ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
UNIT	24	Service:	■ Gauge Pressure ☐ Vacuum ☐ Absolute Pressure ☐ Compound
	25	Element Type:	■ Diaphragm ☐ Helix ☐ Bourdon ☐ Bellows ☐ Other -
	26	Material:	■ 316 SS ☐ BeCu ☐ Other -
	27	Range:	☐ Fixed At - ■ Adjustable - 0-150 PSIG ■ Set At - 0-30 PSIG
	28		Overrange Protection to - 1,500 PSI
	29	Process Data:	Element range - (P) 11,016 PSI (T) -40 - 176°F
	30		P_{NORM} - 100 psig P_{MAX} - 125 psig T_{NORM} - 50°F T_{MAX} - 60°F
	31	Process Connection:	☐ 1/4" FNPT ■ 1/2" FNPT ☐ Other -
	32		Location - ■ Bottom ☐ Back ☐ Other -
SWITCHES	33	Alarm Switches:	Quantity - Form - Rating -
	34	Function:	☐ Process ☐ Deviation Contacts to ☐ open ☐ close on increasing measurement
OPTIONS	35	Options:	☐ Filter Regulator ☐ Supply Gauge ☐ Output Gauge ☐ Charts -
	36		☐ Diaphragm Seal Type - Matl. - Bottom Bowl -
	37		Connection - Fill - ☐ Capillary Length - Matl. -
	38		■ INCLUDE INSTRUMENT BLOCK AND BLEED VALVE - ANDERSON GREENWOOD M9VIS-4MC OR EQUAL.
	39		☐
	40		☐
	41		☐
MANUFACTURER	42	Manufacturer:	ROSEMOUNT
	43	Model Number:	3051T

NOTES: 1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.

TETRA TECH

PRESSURE INSTRUMENTS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number		REV	
201.05		0	
Contract		Date	
		1/29/2021	
Requisition / P.O. Number			
By	Checked	Approved	
JSC			

GENERAL	1	Tag Number:	PIT-402
	2	Service:	POTABLE WATER RESIDENTIAL PUMP DISCHARGE PRESSURE
	3	Function:	☐ Record ■ Indicate ☐ Control ☐ Blind ■ Transmit
	4		☐ Integrate ☐ Other -
	5	Case:	■ Mfg. Std. ☐ Other -
	6	Color:	■ Mfg. Std. ☐ Other -
	7	Mounting:	☐ Flush ■ Surface ☐ Yoke ☐ Other -
	8	Enclosure Class:	■ General Purpose ☐ Weather Proof ☐ Explosion Proof (NEMA Class -)
	9		☐ For Use in Intrinsically Safe System ☐ Other -
	10	Power Supply:	☐ 120 vac 60 Hz ☐ Other AC - ■ DC - 24vdc LOOP
	11	Chart:	☐ 12" Circular ☐ Other -
	12	Chart Drive:	☐ 24 Hour ☐ Other - ☐ Electric ☐ Spring ☐ Other -
	13	Scale:	Type - Range: 1 2 3
TRANSMITTER	14	Transmitter Output:	■ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
	15		For Receiver See Data Sheet:
CONTROLLER	16	Control Modes:	P = Proportional (Gain) I = Integral (Auto Reset) D = Derivative (Rate) Subscript: S = Slow, F = Fast
	17		☐ P ☐ PI ☐ PD ☐ PID ☐ I_F ☐ D_F ☐ I_S ☐ D_S
	18		☐ Other -
	19	Action:	On Measured Increase Output Will ☐ Increase ☐ Decrease
	20	Auto / Manual Switch:	☐ None ☐ Mfg. Std. ☐ Other -
	21	Set Point Adjustment:	☐ Manual ☐ External ☐ Remote ☐ Other -
	22	Manual Regulation:	☐ None ☐ Mfg. Std. ☐ Other -
	23	Output:	☐ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
UNIT	24	Service:	■ Gauge Pressure ☐ Vacuum ☐ Absolute Pressure ☐ Compound
	25	Element Type:	■ Diaphragm ☐ Helix ☐ Bourdon ☐ Bellows ☐ Other -
	26	Material:	■ 316 SS ☐ BeCu ☐ Other -
	27	Range:	☐ Fixed At - ■ Adjustable - 0-150 PSIG ■ Set At - 0-150 PSIG
	28		Overrange Protection to - 1,500 PSI
	29	Process Data:	Element range - (P) 11,016 PSI (T) -40 - 176°F
	30		P_{NORM} - 100 psig P_{MAX} - 125 psig T_{NORM} - 50°F T_{MAX} - 60°F
	31	Process Connection:	☐ 1/4" FNPT ■ 1/2" FNPT ☐ Other -
	32		Location - ■ Bottom ☐ Back ☐ Other -
SWITCHES	33	Alarm Switches:	Quantity - Form - Rating -
	34	Function:	☐ Process ☐ Deviation Contacts to ☐ open ☐ close on increasing measurement
OPTIONS	35	Options:	☐ Filter Regulator ☐ Supply Gauge ☐ Output Gauge ☐ Charts -
	36		☐ Diaphragm Seal Type - Matl. - Bottom Bowl -
	37		Connection - Fill - ☐ Capillary Length - Matl. -
	38		■ INCLUDE INSTRUMENT BLOCK AND BLEED VALVE - ANDERSON GREENWOOD M9VIS-4MC OR EQUAL.
	39		☐
	40		☐
	41		☐
MANUFACTURER	42	Manufacturer:	ROSEMOUNT
	43	Model Number:	3051T

NOTES: 1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.

TETRA TECH

DIFFERENTIAL PRESSURE INSTRUMENTS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number: 202.01		REV: 0	
Contract		Date: 1/29/2021	
Requisition / P.O. Number			
By: JSC	Checked	Approved	

GENERAL	1.	Tag Number:	PDIT-101
	2.	Service:	LEVEL OF WATER IN STORAGE TANK T-100
	3.	Function:	☐ Record ■ Indicate ☐ Control ☐ Blind ■ Transmit
	4.		☐ Integrate ☐ Other -
	5.	Case:	■ Mfg. Std. ☐ Other -
	6.	Color:	■ Mfg. Std. ☐ Other -
	7.	Mounting:	☐ Flush ☐ Surface ☐ Yoke ■ Other - DIAPHRAGM SEAL ON TANK NOZZLE
	8.	Enclosure Class:	☐ General Purpose ■ Weather Proof ☐ Explosion Proof (NEMA Class -)
	9.		☐ For Use in Intrinsically Safe System ☐ Other -
	10.	Power Supply:	☐ 120 vac 60 Hz ☐ Other AC - ■ DC - 24vdc LOOP
	11.	Chart:	☐ 12" Circular ☐ Other -
	12.	Chart Drive:	☐ 24 Hour ☐ Other - ☐ Electric ☐ Spring ☐ Other -
	13.	Scale:	Type - Range: 1. 2. 3.
TRANSMITTER	14.	Transmitter Output:	■ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
	15.		For Receiver See Data Sheet:
CONTROLLER	16.	Control Modes:	P = Proportional (Gain) I = Integral (Auto Reset) D = Derivative (Rate) Subscript: S = Slow, F = Fast
	17.		☐ P ☐ PI ☐ PD ☐ PID ☐ I_F ☐ D_F ☐ I_S ☐ D_S
	18.		☐ Other -
	19.	Action:	On Measured Increase Output Will ☐ Increase ☐ Decrease
	20.	Auto / Manual Switch:	☐ None ☐ Mfg. Std. ☐ Other -
	21.	Set Point Adjustment:	☐ Manual ☐ External ☐ Remote ☐ Other -
	22.	Manual Regulation:	☐ None ☐ Mfg. Std. ☐ Other -
	23.	Output:	☐ 4-20 mA ☐ 10-50 mA ☐ 21-103 kPa (3-15 psig) ☐ Other -
UNIT	24.	Service:	☐ Flow ■ Level ☐ Differential Pressure ☐ Other -
	25.	Element Type:	■ Diaphragm ☐ Bellows ☐ Mercury ☐ Other -
	26.	Material:	■ 316 SS ☐ BeCu ☐ Other -
	27.	Range:	☐ Fixed At - ■ Adjustable - -1,000 - 1,000 inwc ■ Set At -
	28.		Overrange Protection to - 275 PSIG Elevation - + 1 inwc Suppression - -1 inwc
	29.		Element range - (P) 10,081 PSIG (T) -40 - 176°F
	30.	Process Data:	Fluid - POTABLE WATER
	31.		P_{NORM} - 324 inwc P_{MAX} - 330 inwc T_{NORM} - 50° F T_{MAX} - 70° F
	32.	Process Connection:	☐ 1/4" FNPT ☐ 1/2" FNPT ■ Other - MFR STD
	33.		Location - ☐ Bottom ☐ Back ■ Other - LOWER HOUSING SIDE
SWITCHES	34.	Alarm Switches:	Quantity - Form - Rating -
	35.	Function:	☐ Process ☐ Deviation Contacts to ☐ open ☐ close on increasing measurement.
OPTIONS	36.	Options:	☐ Filter Regulator ☐ Supply Gauge ☐ Output Gauge ☐ Charts -
	37.		■ Diaphragm Seal Type - 3" 150# ANSI FLANGE Matl. - 316SS Bottom Bowl - CS TANK FLANGE
	38.		Connection - FLANGE Fill - SILICONE ☐ Capillary Length - Matl. -
	39.		☐ Temperature Element Range - Material -
	40.		☐ Pressure Element Range - Type - Thermowell -
	41.		☐ Valve Manifold ☐
	42.		☐
MANUFACTURER	43.	Manufacturer:	
	44.	Model Number:	

NOTES: 1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.
2. OVERPRESSURE PROTECTION IS LIMITED BY PRESSURE RATING OF CONNECTION FLANGE.

TETRA TECH

PRESSURE GAUGES

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number: 203.01			REV: 0
Contract			Date: 1/29/2021
Requisition / P.O. Number			
By: JSC	Checked		Approved

1 Type: [■] Direct Reading [ ] 3-15 lb. Receiver [ ] Other -

2 Mounting: [■] Surface [ ] Local [ ] Flush

3 Dial: Diameter - 4-1/2" Color - WHITE WITH BLACK LETTERING

4 Case: [ ] Cast Iron [ ] Aluminum [ ] Phenol [■] Other - STAINLESS STEEL

5 Ring: [ ] Screwed [ ] Hinged [■] Standard [ ] Other -

6 Blow-Out Protection: [■] None [ ] Back [ ] Disc [ ] Solid Front [ ] Other-

7 Lens: [■] Glass [ ] Plastic

8 Options: [ ] Syphon Matl. - [ ] Snubber Matl. - [ ] Pressure Limiting Valve Matl. - [■] Movement Dampening Matl. - SILICONE

9 Req'd Accuracy ±0.5 %

10 Mfg. & Model - WIKA 9832594 (0-30 PSIG); WIKA 9832632 (0-200 PSIG)

11 Pressure Element: [■] Bourdon [ ] Bellows [ ] Other -

12 Element Material: [ ] Bronze [ ] Carbon Steel [■] 316 Stainless [ ] Other -

13 Socket Material: [ ] Bronze [ ] Carbon Steel [■] 316 Stainless [ ] Other -

14 Connection: [ ] 1/4" [■] 1/2" [ ] Other - [■] MNPT [ ] FNPT [ ] Back [■] Bottom

15 Movement: [ ] Bronze [ ] Carbon Steel [■] 316 Stainless [ ] Other -

16 Diaphragm Seal: Mfg. & Type - Wetted Parts Matl. - Other Matl. - Fill Fluid - Process Connection - Gauge Connection -

Rev.	Tag. No.	Range	Operating Pressure	Service Installation
A	PI-101	0 - 200 psig	100 psig	PUMP STATION INFLUENT
A	PI-301	0 - 30 psig	15 psig	HIGH SERVICE PUMP SKID SUCTION
A	PI-302	0 - 200 psig	110 psig	HIGH SERVICE PUMP SKID DISCHARGE
A	PI-401	0 - 30 psig	15 psig	RESIDENTIAL PUMP SKID SUCTION
A	PI-402	0 - 200 psig	100 psig	RESIDENTIAL PUMP SKID DISCHARGE
A	PI-501	0 - 200 psig	100-110 psig	HYDROPNEUMATIC TANK

NOTES:
1. INSTRUMENT TO INCLUDE ENGRAVED STAINLESS STEEL TAG WITH INSTRUMENT TAG NUMBER WIRED TO INSTRUMENT.
2. INCLUDE INSTRUMENT BLOCK AND BLEED VALVE - ANDERSON GREENWOOD M9VIS-44C OR EQUAL.

TETRA TECH

MAGNETIC FLOW METERS

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number		REV	
302.01		0	
Contract		Date	
		1/29/2021	
Requisition / P.O. Number			
By	Checked	Approved	
JSC			

GENERAL	1	Tag Number:	FE-101	FE-501		
	2	Service:	POTABLE WATER INFLUENT TO STATION	POTABLE WATER EFFLUENT FROM STATION		
	3	Line / Vessel Number:	INFLUENT	EFFLUENT		
METERING ELEMENT	4	Line Size / Schedule Number:	4" IPS	8" IPS		
	5	Line Material:	DUCTILE IRON	DUCTILE IRON		
	6	Connection Type:	ANSI 125# FLANGES	ANSI 125# FLANGES		
	7	Connection Material:	CARBON STEEL	CARBON STEEL		
	8	Tube Material:	304 STAINLESS STEEL	304 STAINLESS STEEL		
	9	Liner Material	PTFE	PTFE		
	10	Electrode Type	STANDARD	STANDARD		
	11	Electrode Material	316 STAINLESS STEEL	316 STAINLESS STEEL		
	12	Meter Casing	ROLLED CS POLY COAT	ROLLED CS POLY COAT		
	13	Power Supply / Elect. Code	XMTR PWR / -	XMTR PWR / -	/	/
	14	Grounding, Type & Material	RING / 316L SS	RING / 316L SS		
	15	Enclosure Class.	NEMA 4 REQ'D	NEMA 4 REQ'D		
	16					
	17	Fluid:	POTABLE WATER	POTABLE WATER		
	18	Maximum Flow:	500 GPM	1,250 GPM		
	19	Maximum Velocity:				
	20	Normal Flow: / Minimum Flow:	300 GPM / 0 GPM	1,000 GPM / 0 GPM	/	/
	21	Max Temp.: / Min Temp.:	70°F / 45°F	70°F / 45°F	/	/
	22	Max Press.: / Min Press.:	125 psig / 100 psig	125 psig / 100 psig	/	/
	23	Min. Fluid Conductivity	>5 µ SIEMENS/CM	>5 µ SIEMENS/CM		
	24					
	25					
ASSOCIATED INSTRUMENT	26	Tag Number:	FQIT-101	FQIT-501		
	27	Function:	INDICATE/XMIT/TOTALIZE	INDICATE/XMIT/TOTALIZE		
	28	Mounting:	REMOTE WALL MOUNT	REMOTE WALL MOUNT		
	29	Enclosure Class:	NEMA 4X	NEMA 4X		
	30	Signal Cable Length:	50' FIELD TRIM	50' FIELD TRIM		
	31	Span Adjustment Type:	ADJ. LOW CUTOFF	ADJ. LOW CUTOFF		
	32	Power Supply:	120 vac	120 vac		
	33	Transmitter Output:	4-20 mA	4-20 mA		
	34					
	35	Scale Size: / Range:	/	/	/	/
	36	Chart Drive: / Speed:	/	/	/	/
	37	Chart Range: / Number:	/	/	/	/
	38	Integrator:				
	39	CTRL Modes: / Output:	/	/	/	/
	40	CTRL Modes: / Output:	/	/	/	/
	41					
	42	Alarm: / Form:	/	/	/	/
	43	Rating: / Classification:	/	/	/	/
	44	Action:				
MANUFACTURER & MODEL	45	Manufacturer:	ROSEMOUNT	ROSEMOUNT		
	46	Model Number:	8705 ELEMENT	8705 ELEMENT		
	47		8712 TRANSMITTER	8712 TRANSMITTER		
	48					
	49					

NOTES: 1. ALL INSTRUMENTS TO BE SUPPLIED WITH STAINLESS STEEL TAG WITH ENGRAVED INTRUMENT TAG NUMBER WIRED TO INSTRUMENT.

TETRA TECH

LEVEL INSTRUMENTS / CAPACITANCE

No.	By	Date	Revision
0	JSC	1/29/2021	100% DESIGN FOR CONSTRUCTION

Sheet	1	of	1
Specification Number: 402.01			REV: 0
Contract			Date: 1/29/2021
Requisition / P.O. Number			
By: JSC	Checked		Approved

GENERAL	1.	Tag Number:	YS-401			
	2.	Service:	STANDING FREE WATER DETECTION			
	3.	Line / Vessel Number:	LOCATED IN AREAWAY			
	4.	Application:	SPILL DETECTION			
	5.	Function:	SWITCH ON PRESENCE			
	6.	Fail-Safe:	YES			
PROBE	7.	Model Number:	LV-132			
	8.	Orientation:	RESTS ON FLOOR			
	9.	Style:	LIGHT DISCRIMINATOR			
	10.	Material:	PVC			
	11.	Sheath:	PVC			
	12.	Insertion Length:	N/A			
	13.	Inactive Length:	N/A			
	14.	Gland Size and Material:	N/A			
	15.					
	16.	Conduit Connection:				
AMPLIFIER	17.	Location:	INTEGRATED			
	18.	Enclosure Class:	Class I Group D			
	19.	Conduit Connection:	NONE			
	20.	Power Supply:	24 vdc			
SWITCH	21.	Type:	CMOS			
	22.	Quantity and Form:	1			
	23.	Rated At: (vac / HZ - vdc)	35 vdc			
	24.	Amps / Watts / HP:	40mA @ 30 vdc			
	25.	Load Type:	RESISTIVE			
	26. 27.	Contacts: (Normal at High / Low level)	"CLOSED" WITHOUT WATER PRESENT			
TRANSMITTER	28.	Output:				
	29.	Range:				
	30.	Enclosure Class:				
OPTIONS	31.	Compensation Cable:				
	32.	Local Indicator:				
	33.	I/P Transducer:				
	34.	Signal Lights	INCLUDED			
	35.					
SERVICE	36.	Upper Fluid:	AIR			
	37.					
	38.	Lower Fluid:	WATER			
	39.					
	40.	Press. (Max.) | Press. (Norm.)	1 PSIG | 0 PSIG	|	|	|
	41.	Temp. (Max.) | Temp. (Norm.)	85° F | 50° F	|	|	|
	42.	Moisture:	UP TO 100%			
	43.	Material Build-Up:	NONE			
	44.	Vibration:				
MANUFACTURER & MODEL	45.	Manufacturer:	OMEGA ENGINEERING			
	46.	Model Number:	LV132			
	47.					
	48.					
	49.					

NOTES: 1. ALL INSTRUMENTS TO BE SUPPLIED WITH STAINLESS STEEL TAG WITH ENGRAVED INTRUMENT TAG NUMBER ZIP TIED TO CABLE.