

**FIRST AMENDMENT TO  
INFRASTRUCTURE DEVELOPMENT AND PURCHASE AGREEMENT**

This First Amendment to the Infrastructure Development and Purchase Agreement (this "1<sup>st</sup> Amendment") is made and entered into effective September 16, 2025, by and between **TOWN OF CASTLE ROCK, ACTING BY AND THROUGH THE CASTLE ROCK WATER ENTERPRISE**, a municipal political subdivision of the State of Colorado (the "Town") and **TALLGRASS COLORADO MUNICIPAL WATER, LLC**, a Delaware limited liability company ("Developer") (Town and Developer individually referred to herein as a "Party" and collectively as the "Parties").

WHEREAS, the Parties executed the Infrastructure Development and Purchase Agreement dated October 1, 2024 (the "Agreement").

WHEREAS, the Parties desire to amend Section 2.10 of the Agreement to extend the time period for the Parties to reach agreement on completing Phase 1B and Phase 2 of the Project.

NOW, THEREFORE, in consideration of the agreements, covenants, and premises set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. Amendment to Section 2.10. Section 2.10 of the Agreement is hereby deleted and replaced in its entirety with the following:

**2.10 Purchase Obligation**. As a material term for the Town's inducement to this Agreement, if the Town and Developer have not reached an agreement on completing Phase 1B and Phase 2 by January 31, 2026, the Town shall purchase all rights, title, and ownership interest in the assets procured, designed, and constructed pursuant to the Project, including, but not limited to, the assets owned by Developer and set forth in *Exhibit 1* and all easements or other real property rights obtained with respect to such assets, including the Easements assigned to Tallgrass in accordance with Section 2.03(a) above (collectively, the "Assets") for a total purchase price of Fifteen Million Dollars (\$15,000,000.00) (the "Purchase Price"). To complete the purchase, the Town and Developer shall mutually agree upon a closing agent as well as date and time for closing and shall share the costs of closing equally. The Town shall have the right to inspect the Assets prior to closing and shall only be excused from closing on the purchase of the Assets if, in the Town's commercially reasonable judgment, the Assets materially deviate from the Town Specifications. At the time of closing, in addition to conveying all rights, title, and ownership interests of the Project and its Assets to the Town, free and clear of all liens, claims, or encumbrances, the Developer agrees to provide the following in exchange for the purchase price:

- (a) The complete Plans for the Project.
- (b) "As-built" AutoCAD file and PDF file.
- (c) All access or easement rights obtained by Developer for the Project, including the Easements described in Section 2.3(a).
- (d) Any and all permits or approvals obtained as part of the Project.
- (e) All warranties for the Project of any and all nature.

2. Meaning of Capitalized Terms. Capitalized terms used in this 1<sup>st</sup> Amendment, but not defined herein, shall have the meaning set forth in the Agreement.

3. Full Force and Effect. The Parties hereby acknowledge and agree that, except as expressly modified in Section 1 of this 1<sup>st</sup> Amendment, all the terms and provisions of the Agreement shall remain unchanged and in full force and effect.

4. Entire Agreement. This 1<sup>st</sup> Amendment, together with the Agreement, embodies the whole agreement of the Parties. There are no promises, terms, conditions or obligations other than those contained herein; and this 1<sup>st</sup> Amendment and the Agreement shall supersede all previous communications, representations or agreements, either verbal or written.

5. Execution Authority. This 1<sup>st</sup> Amendment has been duly authorized and executed by the Parties, and each Party has full power and authority to consummate the aspects of the transaction for which they are responsible, and the person executing this 1<sup>st</sup> Amendment is fully authorized to do so and has the power to bind the Party for which they are signing.

IN WITNESS WHEREOF, the Parties have executed this 1<sup>st</sup> Amendment as of the date first written above.

[Signature Pages Follow]





## **EXHIBIT 1**

(Phase 1A Detail and Specifications)

### **Project Summary**

Bi-directional system designed to deliver non-potable freshwater from Castle Rock's Lost Creek Wells to Tallgrass Water's Front Range Well Gathering system at a rate of 2,780 gpm. The design consists of 11 rehabilitated irrigation wells and a 9.2-mile HDPE pipeline gathering system with a combination of 12", 20", and 28" diameter pipe. The Project is designed to accommodate Phase 1B and Phase 2 expansion and to comply with Town of Castle Rock 2018 Criteria Manual, Water System Design, dated December 4, 2018 and Town of Castle Rock Construction Methodology and Materials Manual, dated September 14, 2012; provided, however, that the compaction requirements set forth in such manuals shall not apply to the Project and Developer shall comply with the non-structural industry-standard compaction rate of 86%.

### **Summary of Materials**

#### **Gathering Pipeline Installations**

- High Density Polyethylene (HDPE) Pipe
  - 12" DR 13.5 IPS Pipe 31,300 ft
    - Maximum Allowed Operating Pressure – 160 psi
      - Pressure based on a water temperature of 72 degF
  - 20" DR 13.5 IPS Pipe 4,900 ft
    - Maximum Allowed Operating Pressure – 160 psi
      - Pressure based on a water temperature of 72 degF
  - 28" DR 13.5 IPS Pipe 10,950 ft
    - Maximum Allowed Operating Pressure – 160 psi
      - Pressure based on a water temperature of 72 degF
  - Pipeline gathering system designed to transport of total volume of 5,000 acre feet.
- Air Vacuum Breakers
  - Quantity, design and location to be determined when agreed upon land easements for pipeline location are finalized.
- Mainline Isolation Valves
  - Carbon Steel 12" Gate Valves (subgrade)
  - Carbon Steel 20" Gate Valves (subgrade)
  - Carbon Steel 28" Gate Valves (subgrade)
  - Quantity, design and location to be determined when agreed upon land easements for pipeline location are finalized.
  - All subgrade valves to be accessed via valve cans
- Tracer Wire
  - Regency Wire and Cable - Blue – AWG 10 Solid Strand Copper – Nominal OD of 0.192 in
  - Pro-Line's Detectable Marking Tape - consists of a minimum 5.0 mil overall thickness. Construction is 0.8 mil clear virgin polypropylene film, reverse printed

and laminated to a 0.35 solid aluminum foil core and then laminated to a 3.75 mil clear virgin polyethylene film.

**Well 8533**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 110 feet
  - Centrilizers Qty 3
  - 14" #304 Wire Wrapped SS Screen 30 feet
  - 14" x .375" Plain Steel Casing 82 feet
  - 14" x .375" Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 82 feet
  - Cement Grout 18 feet minimum
  - 4" Steel Gravel Tube 21 feet
  - 14" x 4" x 5' pitless assembly
- Submersible Pump
  - Grundfos 150S150-7 Pump End
  - Hitachi 15 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 50 psi
  - Design Rate: 160 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161

- Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
- Phoenix, Surge Protector, #PLT-SEC-T3
- Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4" Lift Check Valves – Qty 1
  - Warren Carbon Steel 6" Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1" Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5" MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

**Well 8534**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 100 feet
  - Centralizers Qty 3
  - 14" #304 Wire Wrapped SS Screen 30 feet
  - 14" x .375" Plain Steel Casing 67 feet

- 14" x .375" Plain Steel Sump                    5 feet
  - Silica Sand Filter Pack                            80 feet
  - Cement Grout                                        18 feet minimum
  - 4" Steel Gravel Tube                              21 feet
  - 14" x 4" x 5' pitless assembly
- Submersible Pump
  - Grundfos 150S150-7 Pump End
  - Hitachi 15 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 50 psi
  - Design Rate: 160 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch

- Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
- LMR195 3' SMA to N
  - Proxicast ANT-140-020 - Qty 4
- LMR400 25' N to N
  - Proxicast ANT-180-401- Qty 4
- Lightning Arrestor
  - Proxicast ANT-211-002 – Qty 4
- 4G MIMO Antenna
  - Proxicast ANT-127-05M – Qty 2
- Verizon VSAT
  - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
- Remote Programmable Smart RTUs
  - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4” Lift Check Valves – Qty 1
  - Warren Carbon Steel 6” Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1” Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5” MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

### **Well 8535**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 110 feet
  - Centralizers Qty 3
  - 14” #304 Wire Wrapped SS Screen 30 feet
  - 14" x .375" Plain Steel Casing 77 feet
  - 14” x .375” Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 82 feet
  - Cement Grout 18 feet minimum
  - 4” Steel Gravel Tube 21 feet
  - 14” x 4” x 5’ pitless assembly
- Submersible Pump
  - Grundfos 230S150-5B Pump End
  - Hitachi 15 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 50 psi
  - Design Rate: 180 gpm

- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT

- iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4” Lift Check Valves – Qty 1
  - Warren Carbon Steel 6” Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1” Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5” MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

**Well 12123**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 170 feet
  - Centralizers Qty 4
  - 14” #304 Wire Wrapped SS Screen 40 feet
  - 14" x .375" Plain Steel Casing 132 feet
  - 14” x .375” Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 150 feet
  - Cement Grout 18 feet minimum
  - 14” x 4” x 5’ pitless assembly
- Submersible Pump
  - Grundfos 230S250-8 Pump End
  - Hitachi 25 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 95 psi
  - Design Rate: 300 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30

- 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4" Lift Check Valves – Qty 1
  - Warren Carbon Steel 6" Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1" Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5" MicroLok Fiberglass Insulation

- Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
- Heat Trace
  - Thermon BSX Self-Regulating Heat Tracing
  - Thermon Terminator - Heating Cable Termination Kits

**Well 12124**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 170 feet
  - Centralizers Qty 4
  - 14" #304 Wire Wrapped SS Screen 40 feet
  - 14" x .375" Plain Steel Casing 132 feet
  - 14" x .375" Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 150 feet
  - Cement Grout 18 feet minimum
  - 14" x 4" x 5' pitless assembly
- Submersible Pump
  - Grundfos 230S250-8 Pump End
  - Hitachi 25 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 95 psi
  - Design Rate: 200 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1

- Square D, 10A Circuit Breaker, #QOU-110
- Phoenix TRIO-UPS Power Supply, #2907161
- Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
- Phoenix, Surge Protector, #PLT-SEC-T3
- Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4" Lift Check Valves – Qty 1
  - Warren Carbon Steel 6" Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1" Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5" MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

### **Well 14860**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 165 feet
  - Centrilizers Qty 4

- 14" #304 Wire Wrapped SS Screen 40 feet
- 14" x .375" Plain Steel Casing 121 feet
- 14" x .375" Plain Steel Sump 5 feet
- Silica Sand Filter Pack 145 feet
- Cement Grout 18 feet minimum
- 4" Steel Gravel Tube 21 feet
- 14" x 4" x 5' pitless assembly
- Submersible Pump
  - Grundfos 150S200-9 Pump End
  - Hitachi 20 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 90 psi
  - Design Rate: 140 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router

- Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4” Lift Check Valves – Qty 1
  - Warren Carbon Steel 6” Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1” Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5” MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

**Well 31526**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 150 feet
  - Centrilizers Qty 3
  - 14” #304 Wire Wrapped SS Screen 40 feet
  - 14" x .375" Plain Steel Casing 107 feet
  - 14” x .375” Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 130 feet
  - Cement Grout 18 feet minimum
  - 4” Steel Gravel Tube 21 feet
  - 14” x 4” x 5’ pitless assembly
- Submersible Pump
  - Grundfos 300S30-9B Pump End
  - Hitachi 30 HP 6-inch 230v Pump Motor

- Design Pressure (at surface): 110 psi
- Design Rate: 270 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna

- Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4” Lift Check Valves – Qty 1
  - Warren Carbon Steel 6” Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1” Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5” MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

**Well 31527**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 150 feet
  - Centralizers Qty 3
  - 14” #304 Wire Wrapped SS Screen 40 feet
  - 14" x .375" Plain Steel Casing 107 feet
  - 14” x .375” Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 130 feet
  - Cement Grout 18 feet minimum
  - 4” Steel Gravel Tube 21 feet
  - 14” x 4” x 5’ pitless assembly
- Submersible Pump
  - Grundfos 230S300-9Pump End
  - Hitachi 30 HP 6-inch 230v Pump Motor
  - Design Pressure (at surface): 105 psi
  - Design Rate: 260 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series

- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4" Lift Check Valves – Qty 1
  - Warren Carbon Steel 6" Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1" Ball Valve

- Piping/Instruments Insulation
  - Johns Manville – 1.5” MicroLok Fiberglass Insulation
  - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
- Heat Trace
  - Thermon BSX Self-Regulating Heat Tracing
  - Thermon Terminator - Heating Cable Termination Kits

### **Well 31542**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 170 feet
  - Centralizers Qty 3
  - 14” #304 Wire Wrapped SS Screen 40 feet
  - 14" x .375" Plain Steel Casing 132 feet
  - 14” x .375” Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 150 feet
  - Cement Grout 18 feet minimum
  - 4” Steel Gravel Tube 21 feet
  - 14” x 4” x 5’ pitless assembly
- Submersible Pump
  - Grundfos 385S400-6B Pump End
  - Hitachi 40 HP 6-inch 460v Pump Motor
  - Design Pressure (at surface): 100 psi
  - Design Rate: 360 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 3 inch (DN80)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60”x48”x16”
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8

- Allen-Bradley Compact Logix end cap, #1769-ECR
- Maple Systems, HMI Touchscreen, #HMI5043LBv2
- Real Time Automation Gateway, #460ETCMM-NNA1
- Square D, 10A Circuit Breaker, #QOU-110
- Phoenix TRIO-UPS Power Supply, #2907161
- Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
- Phoenix, Surge Protector, #PLT-SEC-T3
- Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4" Lift Check Valves – Qty 1
  - Warren Carbon Steel 6" Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1" Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5" MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

## **Well 31640**

- Well Drilling and Completion (well design to be finalized by licensed engineer or geologist based on test hole results)
  - 28-inch borehole 175 feet
  - Centrilizers Qty 3
  - 14" #304 Wire Wrapped SS Screen 40 feet
  - 14" x .375" Plain Steel Casing 132 feet
  - 14" x .375" Plain Steel Sump 5 feet
  - Silica Sand Filter Pack 155 feet
  - Cement Grout 18 feet minimum
  - 4" Steel Gravel Tube 21 feet
  - 14" x 6" x 5' pitless assembly
- Submersible Pump
  - Grundfos 7CHC - 4 Stage Pump End
  - Hitachi 75 HP 8-inch 460v Pump Motor
  - Design Pressure (at surface): 95 psi
  - Design Rate: 550 gpm
- Measurement Instrumentation
  - Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 3 inch (DN80)
  - Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
  - Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
  - Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3

- Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1
  - Remote Programmable Smart RTUs
    - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4" Lift Check Valves – Qty 1
  - Warren Carbon Steel 6" Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1" Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5" MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits

### **Well 31643**

- Well Completions
  - 14" x 4" x 5' pitless assembly
- Submersible Pump
  - Grundfos 230250-8Pump End
  - Hitachi 25 HP 6-inch 460v Pump Motor
  - Design Pressure (at surface): 90 psi
  - Design Rate: 200 gpm
- Measurement Instrumentation

- Emerson Rosemount 8705 Flanged Magnetic Flow Meter Sensor, 2 inch (DN50)
- Emerson Rosemount 8732E Magnetic Flow Meter Transmitter (for 8705 Flow Meter)
- Emerson Rosemount 2088 Gage and Absolute Pressure Transmitter
- Emerson Rosemount 306 In-Line Manifold (for 2088 Pressure Transmitter)
- VFD
  - Allen Bradley Powerflex 753 Series
- PLC & Controls Cabinet
  - Cabinet Enclosure
    - Saginaw EL Enclosure, #SCE-42EL3012LP & Back Panel #SCE-42P30
    - 60"x48"x16"
    - NEMA 3R
  - Circuit breaker, PowerPacT J
    - 250A, 3 pole, 600VAC, 14kA, lugs, Thermal-Magnetic trip, 80% Continuous Current Rating
  - Allen-Bradley Compact Logix controller, #1769L27ERM-QBFC-1B
  - Allen-Bradley Compact Logix analog input module, #1769-IF8
  - Allen-Bradley Compact Logix end cap, #1769-ECR
  - Maple Systems, HMI Touchscreen, #HMI5043LBv2
  - Real Time Automation Gateway, #460ETCMM-NNA1
  - Square D, 10A Circuit Breaker, #QOU-110
  - Phoenix TRIO-UPS Power Supply, #2907161
  - Phoenix, UPS Battery, #UPS-BAT-PB-24DC-7AH
  - Phoenix, Surge Protector, #PLT-SEC-T3
  - Kooltronics Air Conditioner
- Communications and Networking
  - NEMA 4 Cabinet (30"x16"x12") Communications Cabinet
  - Modem
    - Cradlepoint R920 - Qty 2
  - Router
    - Cisco IR1101 – Qty 2
  - Switch
    - Cisco IE3100 (8 or 18 port depending on site requirements) – Qty 1
  - LMR195 3' SMA to N
    - Proxicast ANT-140-020 - Qty 4
  - LMR400 25' N to N
    - Proxicast ANT-180-401- Qty 4
  - Lightning Arrestor
    - Proxicast ANT-211-002 – Qty 4
  - 4G MIMO Antenna
    - Proxicast ANT-127-05M – Qty 2
  - Verizon VSAT
    - iDirect ASM1200 1.2M Antenna with De-Ice – Qty 1

- Remote Programmable Smart RTUs
  - Schneider Electric SCADAPack 479-474 – Qty 1
- Surface Mechanical Installations
  - Warren Carbon Steel 4” Lift Check Valves – Qty 1
  - Warren Carbon Steel 6” Gate Valve – Qty 1
  - Warren Carbon Steel Pressure Vacuum Breaker – Qty 1
  - Warren Carbon Steel 1” Ball Valve
  - Piping/Instruments Insulation
    - Johns Manville – 1.5” MicroLok Fiberglass Insulation
    - Alpha Maritex Style 1700-S Fiberglass Insulation Coated with Dry Silicone Rubber
  - Heat Trace
    - Thermon BSX Self-Regulating Heat Tracing
    - Thermon Terminator - Heating Cable Termination Kits