

November 28, 2023

Traci Alvarez
Assistant City Manager
City of Truth or Consequences
505 Sims Street
Truth or Consequences, NM 87901

Re: IPRA Response-11/15/2023 from Kathleen Sloan

Original IPRA Request:

Please consider this an IPRA.

May I see any documents that show what was not done, as originally planned, in the downtown water project, referred to as the "MSD" water project, in order to meet the \$9.5 million grant/loan budget? I think it was cut down 4 times.

Mayor Amanda Forrister said, if I understood her correctly, said the work at Cook St. Station that as originally to be done as part of this project, was done, but was delayed 257 days. If there are documents explaining her statement, I would like to see them.

Thank you,
Kathleen Sloan
Sierra County Citizen
708 Olivo St.
Williamsburg, NM 87942
575.297.4146

IPRA Response:

Summary of Negotiations, Main Street District (MSD) Water System Improvement

This letter is a summary of our negotiations on the Main Street District (MSD) Water System Improvements project. Bids were publicly opened on Thursday, July 07, 2022, at 2:30 pm MST local time. Smithco Construction Inc. was the responsible low bidder with a base bid of \$7,523,789.00 (excl. NMGRT), which exceeded the available funding of \$6,314,951.70. The city elected to negotiate with Smithco Construction Inc.

A virtual negotiation meeting was held on July 27, 2022, at 3:00 PM between the City, Smithco Construction Inc., and Wilson & Company. The city elected to reduce the project scope and have Smithco Construction Inc. propose value engineering options in regard to construction materials on the project to reduce the construction within the available funding. The scope reductions are as follows:

1. **Foch St:** removal of Foch St. pavement quantities and landscaping covered under the "T or C Great Blocks S. Foch St.: Main St. to Broadway Ave. Master Paving Plan"

2. **Main Street Avenue:** Sheet CU-201, removal of 177 LF “12-inch FPVC C-900, DR 18 PVC Pipe: Pipe Bursting Method” Bid Item #38
3. **Well #8:** Removal of well 8 includes all demolition and installation. Scope for Well #8 included the following components: Existing Yukon Control Panel, Existing Control Wiring Junction Box, Demo Existing RTU, Demo Existing Control wiring from Equipment, RTU-Hardware, Radio Antenna Installation, Installation of RTU, Control Wiring from Existing Equipment to RTU, Calibration of instrumentation, Programming of RTU, Wiring to Mag Meter, Motor Starter Instrument Wiring to RTU, Wiring to Emergency Stop Button and all costs for all miscellaneous work required for complete well installation and appurtenances as described in specifications and shown on drawing.
4. **Sheets removed:** Removal of the following roads and sheets.
 - o McAdoo West CU 224, CU 225
 - o Riverside CU 230
 - o Daniel CU-226
 - o Date St CU 231, CU 232
 - o Broadway CU-222, CU-223

The removal of these sheets represents removal of approximately 1,469 LF of 6-inch, and 8-inch PVC waterline and appurtenances within public right-of-way. 380 LF by open trench method, 433LF by Horizontal Directional Drilling, 656 LF by pipe bursting method. The work also included the installation of new meter cans and water service lines, connections to the existing system. Site work to include roadway asphalt removal and replacement.

Smithco Construction Inc. submitted a revised bid of \$6,323,552.00 (excl. NMGRT) on August 4, 2022, along with Value Engineering Options.

The city after evaluation of the revised bid submitted by Smithco Construction Inc. on August 4, 2022, by the City and Wilson & Company, the decision was made to revise the scope as follows:

1. **Sheets to be re-added:** Broadway CU-222, CU-223
2. **Bid Item #38 quantity removed:** N Broadway St. Sheet CU-201, removal of 177 LF “12-inch FPVC C-900, DR 18 PVC Pipe: Pipe Bursting Method.”

The final project scope with negotiated contract price of is \$6,314,951.70 (excl. NMGRT) could be completed with the available funding and has been approved by USDA-RD.

NOTE: Additive Alternate 1 and Additive Alternate 2 were not included in the awarded project scope due to budget constraints.

Additive Alternate 1- Cook Street 0.3MG tank scope as follows:

- Furnish and Install 0.300 Million Gallon Welded Steel Tank, AWWA D100-11, CIP” Lump Sum (L.S.): Measurement shall be made for the new water tank to new location. Including steel preparation, painting, and disinfection as described in specifications and shown on drawings, and miscellaneous associated work required to furnish and connect to waterline tie-in connection.
- Tank Foundation installed” Lump Sum (L.S.): The tank shall be erected on a foundation constructed by the Contractor. The foundation shall be constructed of reinforced concrete and all costs for all miscellaneous work required for complete working system including all appurtenances as described in specifications and shown on drawings.

- Furnish and Install Cathodic Protection for Tank, Complete in Place” Lump Sum (L.S.): Measurement shall be made for all shop drawings, catalog data, installation instructions and operation and maintenance instructions on “Impressed current” field cathodic protection system.

Additive Alternate 2- Cook Street Generator scope as follows:

- Generator, 1MW, 480/277V, 3 Phase, 4W, Diesel Unit and Generator Pad, including subgrade prep reinforcement, installed” Lump Sum (L.S.): Measurement shall be made for demolition and removal of existing concrete pad and new diesel generator and concrete pad installed as described in specifications and shown on drawings. Payment shall be priced and shall include diesel generator, excavation, removal, over-excavation as required for sub-grade preparation, backfill, surface restoration, concrete pad, and miscellaneous associated work required for complete installation and appurtenances as described in specifications and shown on drawings.

DESCRIPTION ON THE DELAY

The delay of the final completion of the project until July 1, 2024, is only for the electrical work at Cook Street station and SCADA system improvements. This delay is due to the manufacturer’s equipment delay that is justified by the attached letter from the manufacturer. (See attachment for electrical manufacturers backlog letters)

Sincerely,



Mark A. Nasi, PE.
Project Manager

Attachments:

1. Eaton Electrical equipment manufacturers backlog letters
2. Subsection 1 - Improvements to Waterlines Distribution System
 - o Cost estimate Subsection 1 - Improvements to Waterlines Distribution System
 - o Exhibit Subsection 1 - Improvements to Waterlines Distribution System
3. Subsection 2 - Cook Street Cook St. 300,000 Gallon Tank
 - o Cost estimate Subsection 2 - Cook Street Cook St. 300,000 Gallon Tank
 - o Exhibit Subsection 2 - Cook Street Cook St. 300,000 Gallon Tank
4. Subsection 3- Cook St. Generator
 - o Cost estimate Subsection 3- Cook St. Generator
 - o Exhibit Subsection 3- Cook St. Generator
5. Subsection 4- Well 8 Replacement Electrical / Controls
 - o Cost estimate Subsection 4- Well 8 Replacement Electrical / Controls
 - o Exhibit Subsection 4- Well 8 Replacement Electrical / Controls



Powering Business Worldwide

7800 Trade Center Av.
El Paso, TX 79912

September 5, 2023

To whom it may concern,

Over the past two year the ATS product line has navigated unprecedented challenges in many functions of the business. More specifically ATS has faced suppliers going out of business, ATC controller production outages due to microelectronics shortages and many other material challenges. Material supply in addition to labor capacity constraints have repeatedly hampered our ability to deliver on our promises, thus rolling over demand with no realistic near-term way to bridge the gap.

We must reevaluate our entire backlog and reschedule accordingly.

The goal of this reschedule is to better align our plant's capabilities with our customer commitments. Over the coming weeks the ATS customer service teams will be updating our backlog and will provide new ship dates in Eaton system. As our customer service teams focus on this reschedule, please be patient with the delays in new order scheduling.

Furthermore, over the past several months the MCC Plant Operations has continued to see unexpected capacity constraints due to the incoming supply of materials. These constraints have not allowed us to meet the production ramp up EATON was anticipating. Most recently we have worked through shortages of copper bus that has caused extended delays in our structure assembly line. In addition, we continue to see constrained supply with high usage parts, common across all MCCs, such as molded case circuit breakers, starters, contactors, soft starters, drives, control power transformers, meters and metering disconnects. These material constraints are unfortunately leading to additional rescheduling across our product line, and we do not have any opportunity for improvement.

I apologize for the impact this reschedule action will cause you and your projects.

Please feel free to reach out to me if you have any questions or would like to discuss.

Respectfully,

A handwritten signature in black ink, appearing to read 'M. Ruvalcaba', is written over a light blue horizontal line.

Mario Ruvalcaba, PhD, P.E.
Area Sales Manager
West Texas and New Mexico
MarioARuvalcaba@eaton.com



Eaton Corporation
221 Heywood Road
Arden, NC 28704

August 25th, 2023

Subject: Automatic Transfer Switches (ATS)

To: Valued ATS Customer

Over the past two year the ATS product line has navigated unprecedented challenges in many functions of the business. More specifically ATS has faced suppliers going out of business, ATC controller production outages due to microelectronics shortages and many other material challenges. Material supply in addition to labor capacity constraints have repeatedly hampered our ability to deliver on our promises, thus rolling over demand with no realistic near-term way to bridge the gap.

We must reevaluate our entire backlog and reschedule accordingly.

The goal of this reschedule is to better align our plant's capabilities with our customer commitments. Over the coming weeks the ATS customer service teams will be updating our backlog and will provide new ship dates in Eaton system. As our customer service teams focus on this reschedule, please be patient with the delays in new order scheduling.

I apologize for the impact this reschedule action will cause you and your customers.

Sincerely,

Trenton Thomas

Trenton Thomas
ATS Product Line Manager

Main Street District (MSD Project)

Subsection 1 - Improvements to Waterlines Distribution System

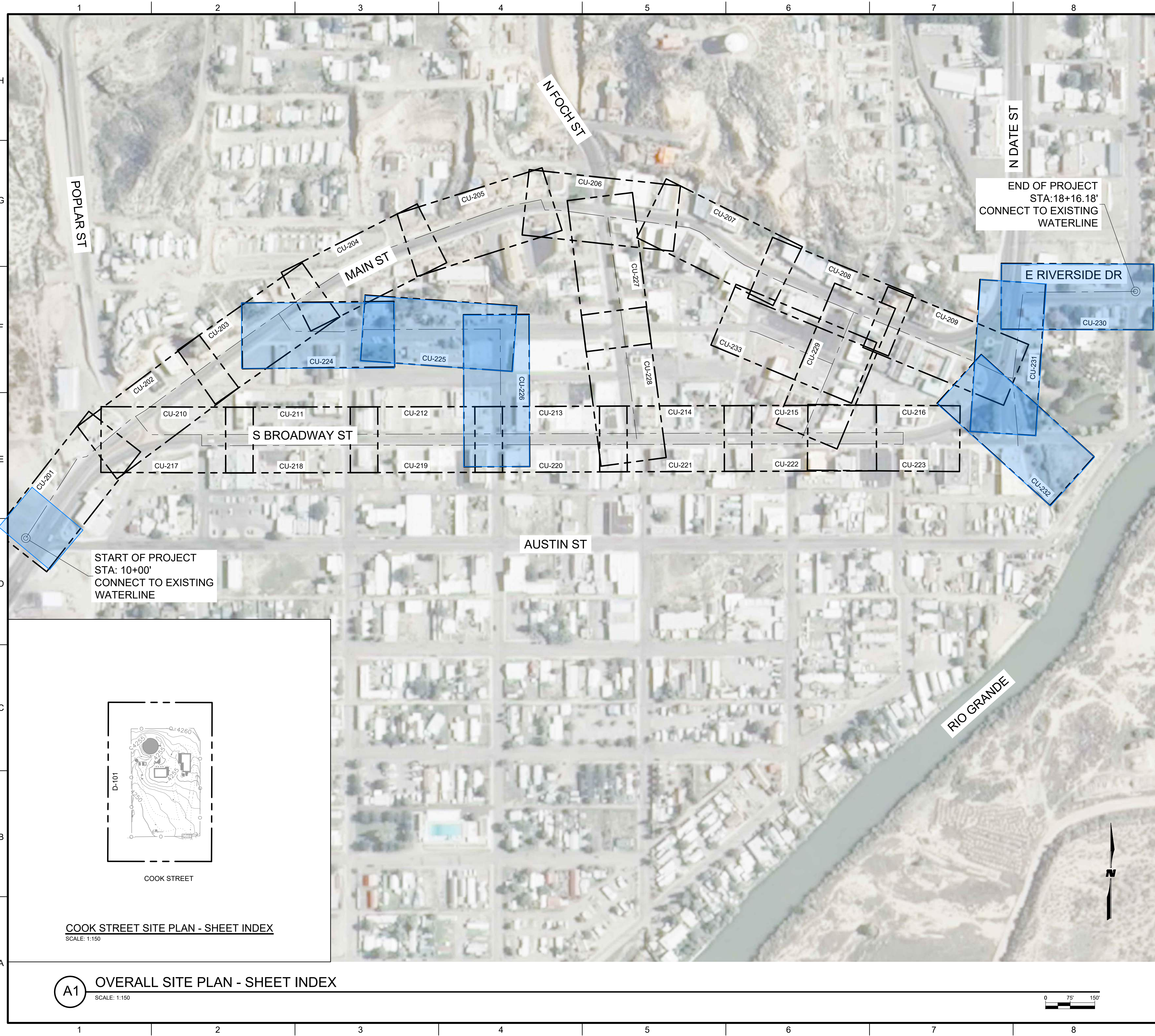
The following are items to be implemented in the cost estimate as followed:

- The project work includes the installation of approximately 1,469 LF of 6-inch, and 8-inch PVC waterline and appurtenances within public right-of-way. 380 LF by open trench method, 433LF by Horizontal Directional Drilling, 656 LF by pipe bursting method. The project also includes the installation of new meter cans and water service lines, connections to the existing system. Site work to include roadway asphalt removal and replacement.

Project Name: Main Street District (MSD) Water System Improvements
 Project #: 19-600-205-00

Subsection 1 - Improvements to Waterlines Distribution System					
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QTY	UNIT PRICE	COST
1	Mobilization & Demobilization	LS	1	\$33,500	\$33,500
2	SWPPP Preparation	LS	1	\$25,000	\$25,000
3	SWPPP Implementation and inspection	LS	1	\$25,000	\$25,000
2	Construction Sign	LS	1	\$2,000	\$2,000
3	Construction Survey to include staking, layout and identifying project boundaries.	LS	1	\$100,000	\$100,000
4	Traffic Control	LS	1	\$150,000	\$150,000
5	Utility Relocation	ALLW	1	\$50,000	\$50,000
6	Material Testing Allowance	ALLW	1	\$73,339	\$73,339
7	Subsurface Utility Locating	ALLW	1	\$50,000	\$50,000
IMPROVEMENTS TO DISTRIBUTION SYSTEM					
31	6-inch FPVC C-900, DR 18 PVC Pipe: Horizontal Directional Drill	LF	66	\$200	\$13,200
32	8-inch FPVC C-900, DR 18 PVC Pipe: Horizontal Directional Drill	LF	367	\$350	\$128,450
34	6" Waterline C-900 DR-18 PVC Pipe Installed	LF	380	\$50	\$19,000
37.A	6-inch FPVC C-900, DR 18 PVC Pipe: Pipe Bursting Method	LF	656	\$260	\$170,560
42	6" Gate Valves w/ Valve Can, CIP	EA	1	\$3,000	\$3,000
44	12" Gate Valves w/ Valve Can, CIP	EA	4	\$4,200	\$16,800
46	3 1/2'-Depth Fire Hydrant w/ piping valves, and connection	EA	1	\$10,000	\$10,000
47	Pressurized waterline connections, CIP	EA	1	\$11,500	\$11,500
48	Ductile Iron MJ Fittings, All Sizes, Class 25, CIP	LB	2,820	\$3	\$8,460
49	Joint Restraints 4"-8", CIP	EA	115	\$100	\$11,500
51	Water Meter Box Remove & Replace,incl connectors & smart valve, compl.	EA	12	\$2,600	\$31,200
52	Dewatering of Bore Pits	LF	85	\$150	\$12,780
52	Dewatering of Trench and Bore Pits, CIP	LF	262	\$50	\$13,100
53	Temporary water services	LF	905	\$35	\$31,675
54	Temporary Service connection	EA	5	\$1,100	\$5,500
ROADWAY					
55	Asphalt Roadway, Remove, Dispose and Replace with SP IV, 3" Thick for Residential Streets, include Base Course and, Subgrade Prep, CIP	SY	67	\$70	\$4,713
59	Geogrid Base Roadway Reinforcement	SY	115	\$5	\$577
61	Remove and replace Sidewalk, CIP	SY	34	\$90	\$3,078
CONSTRUCTION SUBTOTAL					\$ 1,178,572
PROJECT CONTINGENCY (10%)					\$ 117,857
NMGRT (8.375%)					\$ 98,705
TOTAL ESTIMATED PROJECT COSTS					\$ 1,395,135
ENGINEERING SERVICES					
5	Engineering Design Services	LS	1	\$129,643.00	\$129,643.00
6	Engineering - Bid Phase	LS	1	\$2,982.00	\$2,982.00
7	Engineering - Construction Inspection	LS	1	\$45,375.00	\$45,375.00
9	Engineering - Construction Management	LS	1	\$18,150.00	\$18,150.00
Engineering Services Subtotal:					\$221,150.00
Contingency - 0%:					\$0.00
NMGRT @ 7.625%:					\$16,863.00
Engineering Total:					\$238,013.00
GRAND TOTAL:					\$1,633,148

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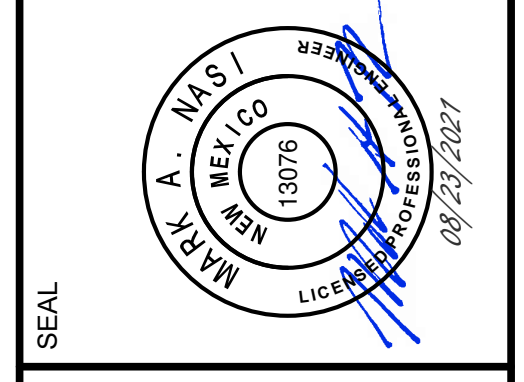


GENERAL NOTES

1. LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON AVAILABLE RECORD INFORMATION, ABOVE GROUND FEATURES VISIBLE IN THE FIELD, AND VERBAL DESCRIPTIONS BY THE CITY OF TRUTH OR CONSEQUENCES. IN THE EVENT CONDITIONS IN THE FIELD ARE NOT AS SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE PUBLIC INFRASTRUCTURE PROJECT MANAGER OR THE ENGINEER IMMEDIATELY SO THAT NECESSARY CHANGES TO THE DESIGN MAY BE MADE WITH THE MINIMUM OF INTERRUPTION TO THE PROJECT SCHEDULE.
2. ALL UTILITY CONSTRUCTION FOR IRRIGATION LINES, WATER LINES, SANITARY SEWER LINES, AND ALL APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF TRUTH OR CONSEQUENCES STANDARDS.
3. CONTRACTOR SHALL VERIFY FIELD LOCATION, TYPE, AND DEPTH OF ALL UTILITIES SHOWN AND NOT SHOWN.

WILSON & COMPANY
 4401 MASTHEAD ST. NE, SUITE 150
 ALBUQUERQUE, NM 87109
 PHONE: 505-348-4000
 FAX: 505-348-4072
 www.wilsonco.com

CONSULTANTS



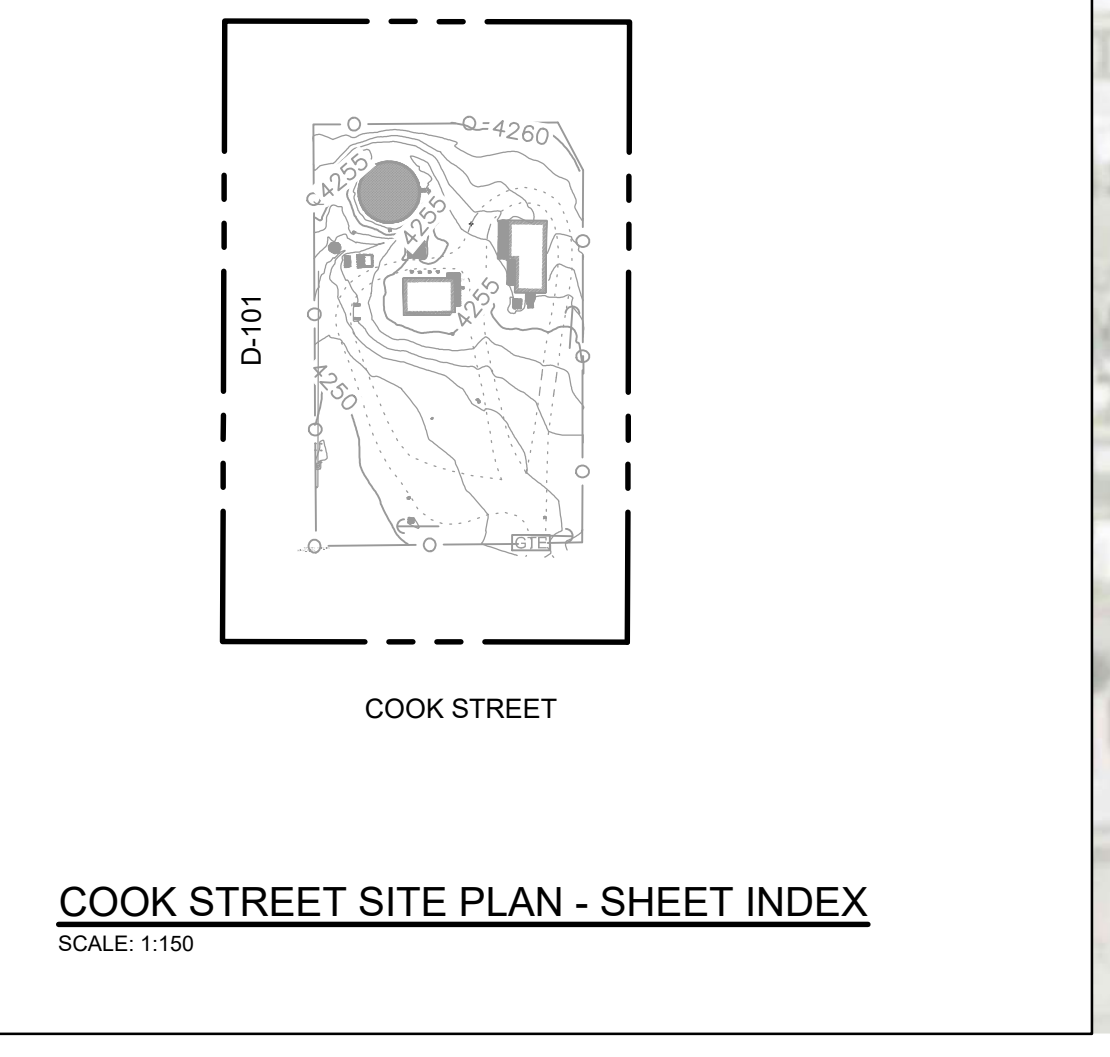
PROJECT NAME
**TRUTH OR CONSEQUENCES
 MSD WATER LINES**

REV.	DATE	DESCRIPTION	BY

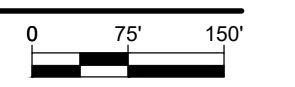
PROJECT NO: 1960020500
 DESIGNED BY: CJG
 DRAWN BY: CJG
 CHECKED BY: MWW
 DATE: MAY 2021

SHEET TITLE
OVERALL SITE PLAN

SHEET NO:
G-004



A1 OVERALL SITE PLAN - SHEET INDEX
 SCALE: 1:150



Main Street District (MSD Project)

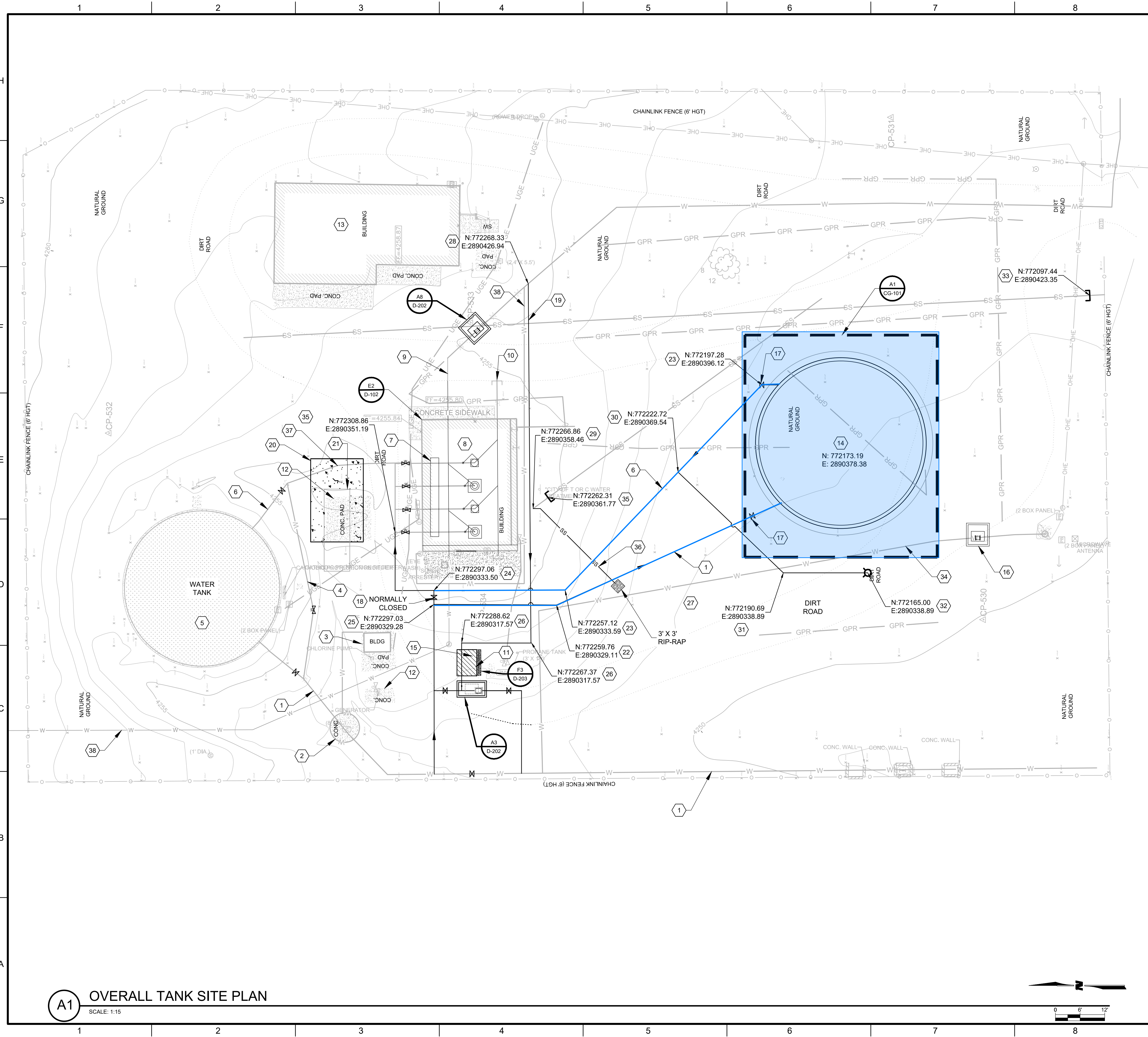
Subsection 2 - Cook Street Cook St. 300,000 Gallon Tank

The following are items to be implemented in the cost estimate as followed:

- Furnish and Install 0.300 Million Gallon Welded Steel Tank, AWWA D100-11,CIP” Lump Sum (L.S.): Measurement shall be made for the new water tank to new location. Including steel preparation, painting, and disinfection as described in specifications and shown on drawings, and miscellaneous associated work required to furnish and connect to waterline tie-in connection.
- Tank Foundation, Installed” Lump Sum (L.S.): The tank shall be erected on a foundation constructed by the Contractor. The foundation shall be constructed of reinforced concrete and all costs for all miscellaneous work required for complete working system including all appurtenances as described in specifications and shown on drawings.
- Furnish and Install Cathodic Protection for Tank, Complete in Place” Lump Sum (L.S.): Measurement shall be made for all shop drawings, catalog data, installation instructions and operation and maintenance instructions on “Impressed current” field cathodic protection system.

Project Name: Main Street District (MSD) Water System Improvements
 Project #: 19-600-205-00

Subsection 2 - Cook Street Cook St. 300,000 Gallon Tank					
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QTY	UNIT PRICE	COST
1	Mobilization & Demobilization	LS	1	\$47,900	\$47,900
2	SWPPP Preparation	LS	1	\$5,800	\$5,800
3	SWPPP Implementation and inspection	LS	1	\$5,800	\$5,800
2	Construction Sign	LS	1	\$2,000	\$2,000
3	Construction Survey to include staking, layout and identifying project boundaries.	LS	1	\$22,900	\$22,900
5	Utility Relocation	ALLW	1	\$11,500	\$11,500
6	Material Testing Allowance	ALLW	1	\$16,800	\$16,800
7	Subsurface Utility Locating	ALLW	1	\$11,500	\$11,500
8	SCADA Allowance	ALLW	1	\$10,000	\$10,000
COOK ST. 300,000 GALLON TANK CONSTRUCTION ITEMS					
11	Site Grading/Excavation	CY	1,000	\$15	\$15,000
12	Engineered Fill/Subgrade Prep for Tank Foundation, Including Compaction and Testing	CY	630	\$60	\$37,800
13	6-Inch Gravel Pad, Including Subgrade Prep, Installed	SY	821	\$13	\$10,673
14	Furnish and Install 0.300 Million Gallon Welded Steel Tank, AWWA D100-11,CIP	LS	1	\$550,000	\$550,000
15	Tank Foundation, Installed	LS	1	\$160,000	\$160,000
16	Furnish and Install Cathodic Protection for Tank, Complete in Place	LS	1	\$25,000	\$25,000
17	Furnish and Install 18-Inch DIP, Including Trenching and Compacted Backfill, per APWA Standard Spec. 801, Complete in Place	LF	301	\$180	\$54,180
22	Ductile Iron MJ fittings, class 250,18" Waterlines incl. Joining Material	LB	3,795	\$5	\$18,975
22.A	18" Gate Valves w/ Valve Can, CIP	EA	3	\$25,000	\$75,000
28.A	4 1/2'-Depth Fire Hydrant w/ piping valves, and connection	EA	1	\$10,000	\$10,000
29	Furnish and Install 18-Inch DI Mechanically Restrained Joint Assembly, per APWA Standard Spec. 801, Complete in Place	EA	20	\$50	\$1,000
CONSTRUCTION SUBTOTAL					\$ 1,266,468
PROJECT CONTINGENCY (10%)					\$ 126,647
NMGRT (8.375%)					\$ 106,067
TOTAL ESTIMATED PROJECT COSTS					\$ 1,499,181
ENGINEERING SERVICES					
5	Engineering Design Services	LS	1	\$139,311.00	\$139,311.00
6	Engineering - Bid Phase	LS	1	\$3,204.00	\$3,204.00
7	Engineering - Construction Inspection	LS	1	\$48,759.00	\$48,759.00
9	Engineering - Construction Management	LS	1	\$19,504.00	\$19,504.00
Engineering Services Subtotal:					\$235,778.00
Contingency - 0%:					\$0.00
NMGRT @ 7.625%:					\$17,978.00
Engineering Total:					\$253,756.00
GRAND TOTAL:					\$1,752,937



A1 OVERALL TANK SITE PLAN
SCALE: 1:15

GENERAL NOTES

- CONTRACTOR TO FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION
- PIPING UNDER STRUCTURES, BUILDING, AND TANKS SHALL BE WELDED STEEL TO 5-FEET OUTSIDE OF STRUCTURE
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH FACILITY OPERATIONS
- WITH GENERATOR PAD AT EL=4255.25 AND CHLORINATION PAD AT EL=4252, GRADE TO EXISTING GROUND AT 2% SLOPE.

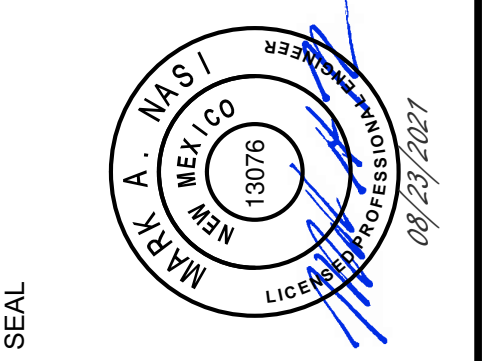
KEYNOTES

- 18" WELL COLLECTOR LINE*
- TO BE ABANDONED CHLORINATION INJECTION MANHOLE INCLUDING PROPELLER FLOW METER
- TO BE REMOVED DISINFECTION SYSTEM
- 18" TANK BYPASS LINE
- EXISTING 200,000-GALLON CHLORINATED WATER STORAGE TANK
- 18" BOOSTER STATION SUCTION LINE
- BOOSTER STATION INTAKE MANIFOLD
- EXISTING DUPLEX BOOSTER STATION W/ SPACE FOR 2 ADDITION PUMPS
- 12" UPPER ZONE DISCHARGE LINE
- 8" UPPER ZONE DISCHARGE LINE - TO BE CONNECTED IN THE FUTURE
- NEW CHLORINE SYSTEM - 4'x8' CONCRETE SLAB
- EXISTING CONCRETE PAD TO BE REMOVED
- STORAGE BUILDING
- NEW 300,000-GALLON CHLORINATED WATER STORAGE TANK
- NEW DISINFECTION SYSTEM
- NEW METER VAULT - INSTALLED UNDER SEPARATE CONTRACT
- NEW 18" GATE VALVE
- NEW 18" NORMALLY CLOSED GATE VALVE
- NEW 2" PVC PIPE
- 16' X 31' GENERATOR CONCRETE PAD
- 7.8' X25' GENERATOR (40,000 lb CAPACITY)
- 18" MjxMj 22.5° BEND W/ RESTRAINTS
- 18" MjxMj 45° BEND W/ RESTRAINTS
- 18" MjxMj TEE. 18" MjxMj 22.5° AND 11.25° BENDS W/ RESTRAINTS
- 18" MjxMj TEE W/ RESTRAINTS
- 2" PVC 90° BEND
- 4" FLAPPER VALVE W/ 2' X 2' RIP-RAP
- 12' x 2' SADDLE WITH A 12" CURBSTOP WITH A 45°
- TIE INTO EXISTING SEWER CLEANOUT, CONNECT 45" LONG SWEEP ELBOW
- 18" x 6" MjxMj TEE, 1-6" GATE VALVE W/ BOX W/ R/JS, 2-18" TRANSITION COUPLINGS
- 6" MjxMj 45° BEND W/ R/JS
- 1-FH ASSEMBLY TYP. SEE DETAIL F2 ON SHEET CU-502. (72 LF C-900 PVC, DR-18, 150 PSI)
- CUT AND CAP EXISTING SEWER SERVICE LINE
- EXISTING 6" WELL #1 FEED LINE
- CONNECT TO EXISTING PIPE W/ ALL NECESSARY FITTINGS
- TIE-IN-TO EXISTING CLEANOUT WITH NEW 4" SCH40 PVC @ 2% SLOPE TO DAYLIGHT
- LOCATION OF EXISTING 18" BOOSTER FEEDLINE IS UNKNOWN, IF UNDER THE NEW GENERATOR PAD, RELOCATE OUTSIDE THE NEW PAD.
- EXISTING WATER SERVICE TO THE BUILDING. LOCATION IS NOT KNOWN, ONLY SHOWN AS WATERLINE SHOULD BE.

*THIS COLLECTOR LINE RECEIVES GROUND WATER FROM ALL THE SUPPLY WELLS OF THE SYSTEM (WELLS NO.1, NO.2., NO.4, NO.6, NO.7, NO.8)

WILSON & COMPANY
4401 MASTHEAD ST. NE, SUITE 150
ALEBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4072
www.wilsonco.com

CONSULTANTS



PROJECT NAME
**TRUTH OR CONSEQUENCES
MSD WATER LINES**

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1960020500
DESIGNED BY:	CJG
DRAWN BY:	CJG
CHECKED BY:	MWW
DATE:	MAY 2021

SHEET TITLE
**COOK ST. YARD
PIPING PLAN**

SHEET NO:
D-101

Main Street District (MSD Project)

Subsection 3- Cook St. Generator

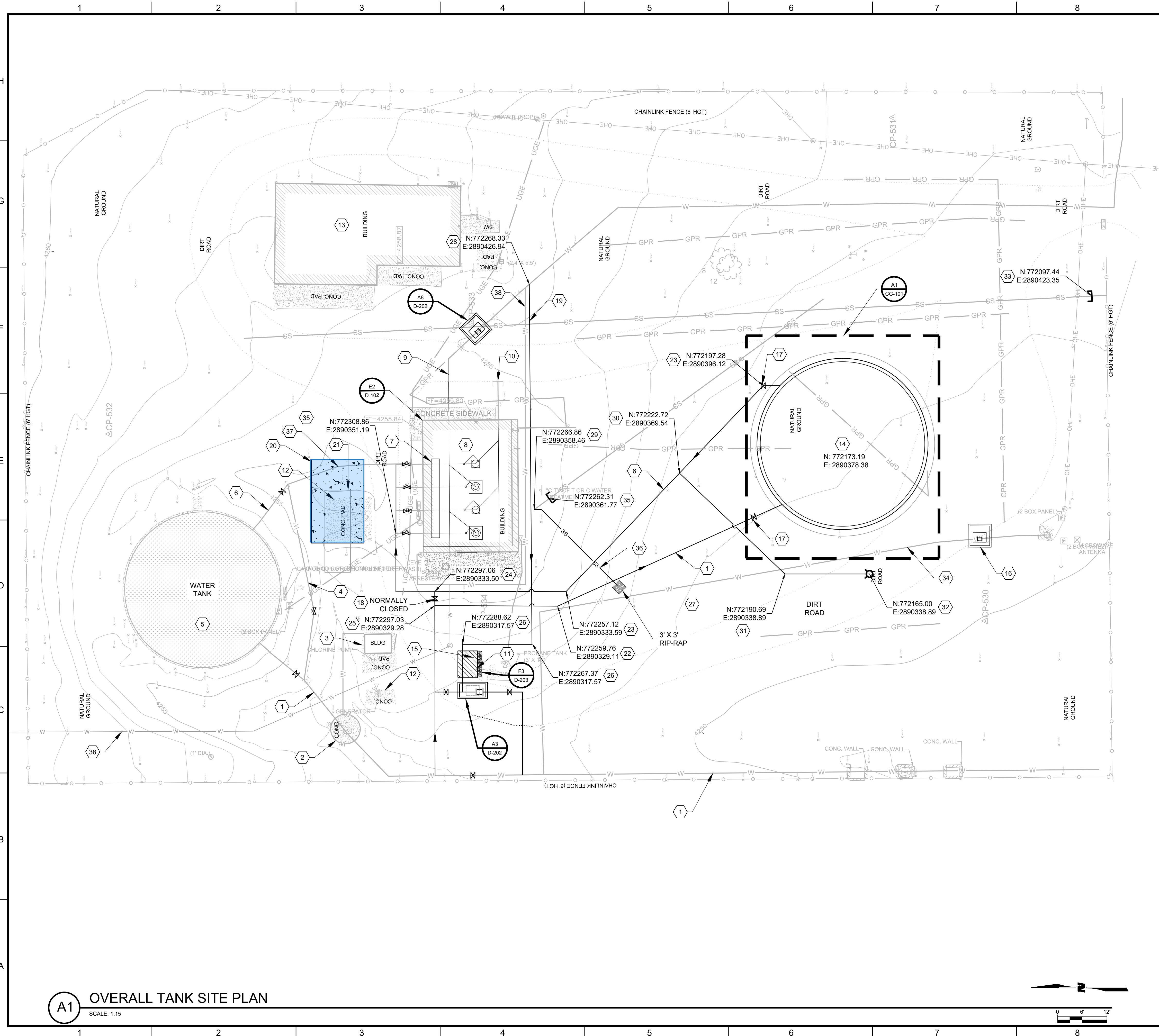
The following are items to be implemented in the cost estimate as followed:

- Generator, 1MW, 480/277V, 3 Phase, 4W, Diesel Unit and Generator Pad, including subgrade prep reinforcement, Installed” Lump Sum (L.S.): Measurement shall be made for demolition and removal of existing concrete pad and new diesel generator and concrete pad installed as described in specifications and shown on drawings. Payment shall be priced and shall include diesel generator, excavation, removal, over-excavation as required for sub-grade preparation, backfill, surface restoration, concrete pad, and miscellaneous associated work required for complete installation and appurtenances as described in specifications and shown on drawings.

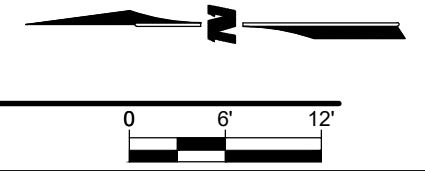
Project Name: Main Street District (MSD) Water System Improvements
 Project #: 19-600-205-00

Subsection 3- Cook St. Generator					
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QTY	UNIT PRICE	COST
1	Mobilization & Demobilization	LS	1	\$24,100	\$24,100
2	SWPPP Preparation	LS	1	\$2,900	\$2,900
3	SWPPP Implementation and inspection	LS	1	\$2,900	\$2,900
2	Construction Sign	LS	1	\$300	\$300
3	Construction Survey to include staking, layout and identifying project boundaries.	LS	1	\$11,500	\$11,500
5	Utility Relocation	ALLW	1	\$5,800	\$5,800
6	Material Testing Allowance	ALLW	1	\$8,400	\$8,400
7	Subsurface Utility Locating	ALLW	1	\$5,800	\$5,800
8	SCADA Allowance	ALLW	1	\$5,000	\$5,000
COOK ST. GENERATOR CONSTRUCTION ITEMS					
27	Generator, 1MW, 480/277V, 3 Phase, 4W, Diesel Unit and Generator Pad, including subgrade prep reinforcement, Installed	LS	1.00	\$480,000	\$480,001
CONSTRUCTION SUBTOTAL					\$ 721,341
PROJECT CONTINGENCY (10%)					\$ 72,134
NMGRT (8.375%)					\$ 60,412
TOTAL ESTIMATED PROJECT COSTS					\$ 853,887
ENGINEERING SERVICES					
5	Engineering Design Services	LS	1	\$79,348.00	\$79,348.00
6	Engineering - Bid Phase	LS	1	\$1,825.00	\$1,825.00
7	Engineering - Construction Inspection	LS	1	\$27,772.00	\$27,772.00
9	Engineering - Construction Management	LS	1	\$11,109.00	\$11,109.00
Engineering Services Subtotal:					\$145,054.00
Contingency - 0%:					\$0.00
NMGRT @ 7.625%:					\$11,060.00
Engineering Total:					\$156,114.00
GRAND TOTAL:					\$1,010,001

8/23/2021 M:\MSD\19-600-205-002_Disciplines_SHEETS\8_sheets - utilities\01_GENI\196205_TANK_SP.dwg



A1 OVERALL TANK SITE PLAN
SCALE: 1:15



GENERAL NOTES

1. CONTRACTOR TO FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION
2. PIPING UNDER STRUCTURES, BUILDING, AND TANKS SHALL BE WELDED STEEL TO 5-FEET OUTSIDE OF STRUCTURE
3. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH FACILITY OPERATIONS
4. WITH GENERATOR PAD AT EL=4255.25 AND CHLORINATION PAD AT EL=4252, GRADE TO EXISTING GROUND AT 2% SLOPE.

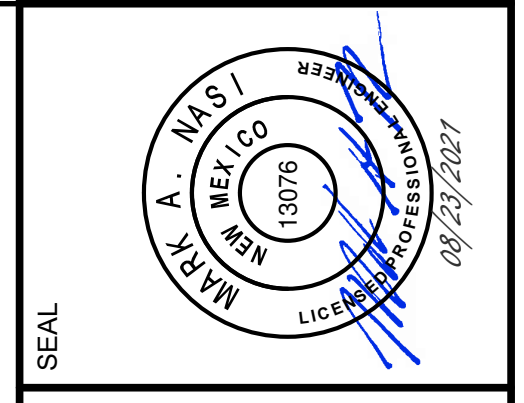
KEYNOTES

- 1 18" WELL COLLECTOR LINE*
- 2 TO BE ABANDONED CHLORINATION INJECTION MANHOLE INCLUDING PROPELLER FLOW METER
- 3 TO BE REMOVED DISINFECTION SYSTEM
- 4 18" TANK BYPASS LINE
- 5 EXISTING 200,000-GALLON CHLORINATED WATER STORAGE TANK
- 6 18" BOOSTER STATION SUCTION LINE
- 7 BOOSTER STATION INTAKE MANIFOLD
- 8 EXISTING DUPLEX BOOSTER STATION W/ SPACE FOR 2 ADDITION PUMPS
- 9 12" UPPER ZONE DISCHARGE LINE
- 10 8" UPPER ZONE DISCHARGE LINE - TO BE CONNECTED IN THE FUTURE
- 11 NEW CHLORINE SYSTEM - 4'x8' CONCRETE SLAB
- 12 EXISTING CONCRETE PAD TO BE REMOVED
- 13 STORAGE BUILDING
- 14 NEW 300,000-GALLON CHLORINATED WATER STORAGE TANK
- 15 NEW DISINFECTION SYSTEM
- 16 NEW METER VAULT - INSTALLED UNDER SEPARATE CONTRACT
- 17 NEW 18" GATE VALVE
- 18 NEW 18" NORMALLY CLOSED GATE VALVE
- 19 NEW 2" PVC PIPE
- 20 16' X 31' GENERATOR CONCRETE PAD
- 21 7.8' X25' GENERATOR (40,000 lb CAPACITY)
- 22 18" MjxMj 22.5" BEND W/ RESTRAINTS
- 23 18" MjxMj 45" BEND W/ RESTRAINTS
- 24 18" MjxMj TEE. 18" MjxMj 22.5" AND 11.25" BENDS W/ RESTRAINTS
- 25 18" MjxMj TEE W/ RESTRAINTS
- 26 2" PVC 90° BEND
- 27 4" FLAPPER VALVE W/ 2' X 2' RIP-RAP
- 28 12" x 2" SADDLE WITH A 12" CURBSTOP WITH A 45°
- 29 TIE INTO EXISTING SEWER CLEANOUT, CONNECT 45" LONG SWEEP ELBOW
- 30 18" x 6" MjxMj TEE, 1-6" GATE VALVE W/ BOX W/ RJS, 2-18" TRANSITION COUPLINGS
- 31 6" MjxMj 45° BEND W/ RJS
- 32 1-FH ASSEMBLY TYP. SEE DETAIL F2 ON SHEET CU-502. (72 LF C-900 PVC, DR-18, 150 PSI)
- 33 CUT AND CAP EXISTING SEWER SERVICE LINE
- 34 EXISTING 6" WELL #1 FEED LINE
- 35 CONNECT TO EXISTING PIPE W/ ALL NECESSARY FITTINGS
- 36 TIE-IN-TO EXISTING CLEANOUT WITH NEW 4" SCH40 PVC @ 2% SLOPE TO DAYLIGHT
- 37 LOCATION OF EXISTING 18" BOOSTER FEEDLINE IS UNKNOWN, IF UNDER THE NEW GENERATOR PAD, RELOCATE OUTSIDE THE NEW PAD.
- 38 EXISTING WATER SERVICE TO THE BUILDING. LOCATION IS NOT KNOWN, ONLY SHOWN AS WATERLINE SHOULD BE.

*THIS COLLECTOR LINE RECEIVES GROUND WATER FROM ALL THE SUPPLY WELLS OF THE SYSTEM (WELLS NO.1, NO.2., NO.4, NO.6, NO.7, NO.8)

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CONSULTANTS



PROJECT NAME
**TRUTH OR CONSEQUENCES
 MSD WATER LINES**

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	1960020500
DESIGNED BY:	CJG
DRAWN BY:	CJG
CHECKED BY:	MWW
DATE:	MAY 2021

SHEET TITLE
**COOK ST. YARD
 PIPING PLAN**

SHEET NO:
D-101

Main Street District (MSD Project)

Subsection 4- Well 8 Replacement Electrical / Controls

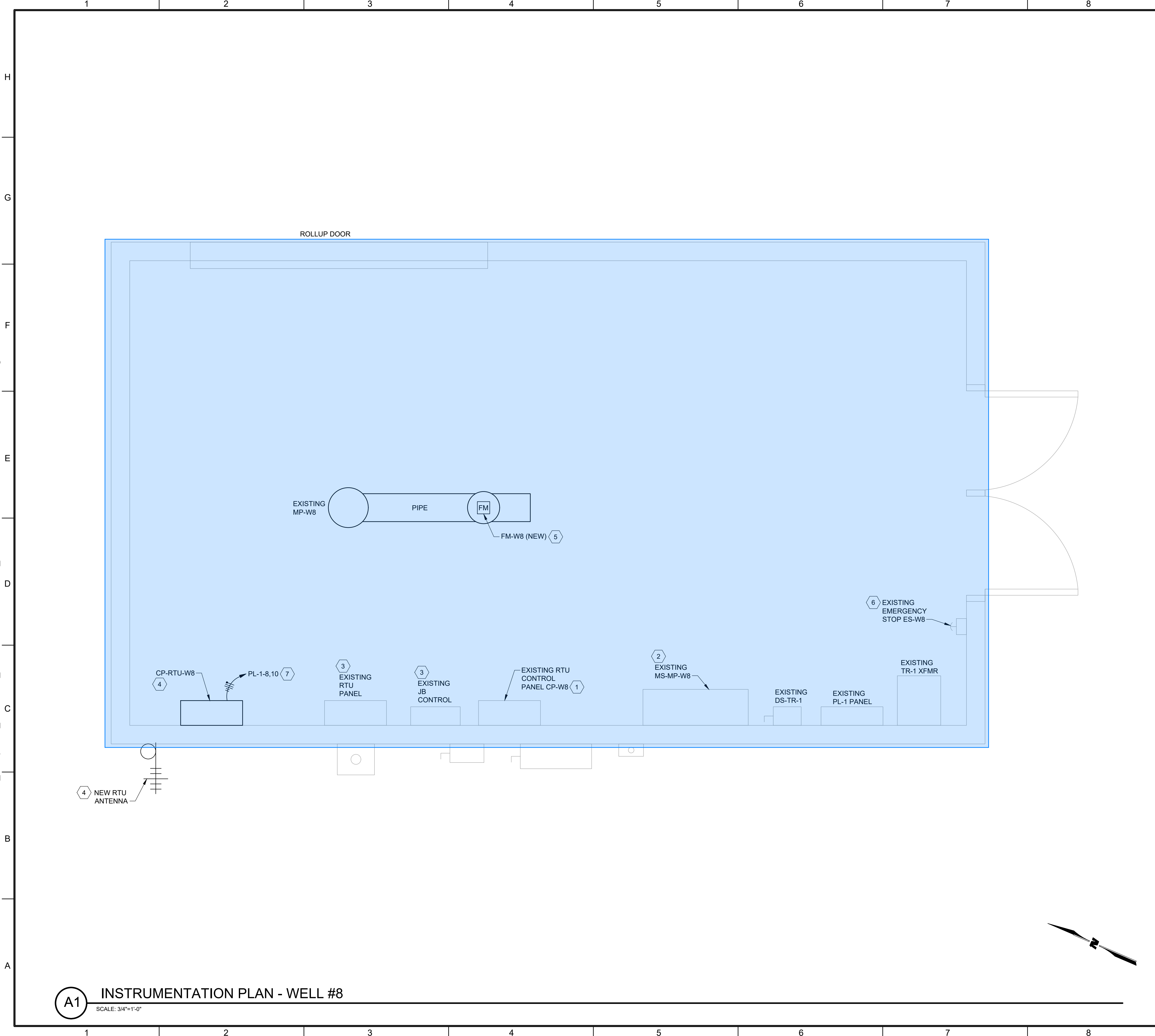
The following are items to be implemented in the cost estimate as followed:

- Well 8 Demolition and Installation, CIP” Lump Sum (L.S.): Shall include all demolition and installation. Payment shall be unit price and shall include Existing Yukon Control Panel, Existing Control Wiring Junction Box, Demo Existing RTU, Demo Existing Control wiring from Equipment, RTU-Hardware, Radio Antenna Installation, Installation of RTU, Control Wiring from Existing Equipment to RTU, Calibration of instrumentation, Programming of RTU, Wiring to Mag Meter, Motor Starter Instrument Wiring to RTU, Wiring to Emergency Stop Button and all costs for all miscellaneous work required for complete well installation and appurtenances as described in specifications and shown on drawing.

Project Name: Main Street District (MSD) Water System Improvements
 Project #: 19-600-205-00

Subsection 4- Well 8 Replacement Electrical / Controls					
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QTY	UNIT PRICE	COST
1	Mobilization & Demobilization	LS		\$9,900	\$0
2	SWPPP Preparation	LS		\$700	\$0
3	SWPPP Implementation and inspection	LS		\$700	\$0
2	Construction Sign	LS		\$2,000	\$0
3	Construction Survey to include staking, layout and identifying project boundaries.	LS		\$2,100	\$0
5	Utility Relocation	ALLW		\$1,400	\$0
6	Material Testing Allowance	ALLW		\$1,400	\$0
7	Subsurface Utility Locating	ALLW		\$1,400	\$0
8	SCADA Allowance	ALLW		\$5,000	\$0
ELECTRICAL / CONTROLS					
66	Well 8 Demolition and Installation, CIP	LS	1.00	\$68,000	\$68,000
CONSTRUCTION SUBTOTAL					\$ 68,000
PROJECT CONTINGENCY (10%)					\$ 6,800
NMGRT (8.375%)					\$ 5,695
TOTAL ESTIMATED PROJECT COSTS					\$ 80,495
ENGINEERING SERVICES					
5	Engineering Design Services	LS	1	\$7,480.00	\$7,480.00
6	Engineering - Bid Phase	LS	1	\$172.00	\$172.00
8	Engineering-Well Construction Oversight	LS	1	\$35,000.00	\$35,000.00
9	Engineering - Construction Management	LS	1	\$1,047.00	\$1,047.00
Engineering Services Subtotal:					\$68,699.00
Contingency - 0%:					\$0.00
NMGRT @ 7.625%:					\$5,238.00
Engineering Total:					\$73,937.00
GRAND TOTAL:					\$154,432

4/16/2021 \\wilsonco.com\mdrive\MSD\19-600-205-002_Disciplines_SHEETS\6_sheets - electrical\196205_1-180 WELL #8 INSTRUMENTATION PLAN.dwg



A1 INSTRUMENTATION PLAN - WELL #8
SCALE: 3/4"=1'-0"

GENERAL NOTES

- A. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- B. EXISTING EQUIPMENT LOCATION IS DIAGRAMMATIC. VERIFY ALL EXISTING WIRING TO ALL EQUIPMENT PRIOR TO ANY WORK TO BEGIN. CONTRACTOR SHALL LABEL ALL EXISTING WIRING AND VERIFY OPERATION AND USE INCLUDING ALL UNDERGROUND CONDUITS. NO DIGGING IS TO BEGIN UNTIL ALL UNDERGROUND CONDUITS AND PIPING ARE LOCATED. CONTRACTOR SHALL COORDINATE WITH OWNER AND ALL OTHER DISCIPLINES DURING DISCOVERY OF ALL CONDUITS AND PIPING.
- C. SITE IS OPERATIONAL. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL INSTALLATIONS. NO SHUTDOWNS OF EQUIPMENT WILL BE ALLOWED WITHOUT OWNER APPROVAL PRIOR TO ANY WORK PERFORMED.
- D. CONTRACTOR SHALL DEMO IDENTIFIED EQUIPMENT ALONG WITH ANY SUPPORTS, CONDUIT (OVERHEAD OR UNDERGROUND), WIRING. CONTRACTOR SHALL REPAIR TO MATCH ALL SUPPORTS OR GRADE AS NEEDED TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL COORDINATE DEMO OF EQUIPMENT WITH INSTALLATION AND ENERGIZING OF NEW EQUIPMENT. REFER TO SEQUENCE OF OPERATION FOR SEQUENCING INFORMATION.
- E. NEW EQUIPMENT LOCATION IS DIAGRAMMATIC. FIELD COORDINATE FINAL EQUIPMENT LOCATION AND ADJUST WIRING AS NEEDED. IF ANY ADDITIONAL WIRING ADJUSTMENTS ARE MADE IN THE FIELD DUE TO EQUIPMENT RELOCATION, ADJUST WIRING AS NEEDED.
- F. REFER TO INSTRUMENT I/O SCHEDULE, INSTRUMENT CABLE SCHEDULE, AND SCADA SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
- G. REFER TO ALL DISCIPLINE DRAWINGS FOR ADDITIONAL INFORMATION.
- H. ALL SCADA/RTU PROGRAMMING TO BE DONE BY OWNER PREFERRED SCADA INTEGRATOR. CONTRACTOR SHALL SUB-CONTACT ALL SCADA/RTU WORK TO OWNER PREFERRED SCADA SUB-CONTRACTOR. REFER TO SCADA SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
- I. CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS TO ENGINEER OF FINAL INSTALLATION AND OR DEVIATIONS FROM NEW MEXICO CONSTRUCTION INDUSTRIES DIVISION APPROVED DRAWINGS.

KEYNOTES

- 1. EXISTING RTU CONTROL PANEL IS TO BE REPLACED WITH NEW RTU CONTROL PANEL. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING CONTROL PANEL WITH NEW PANEL. CONTRACTOR SHALL REMOVE ALL WIRING AND EQUIPMENT ASSOCIATED WITH EXISTING CONTROL PANEL INCLUDING EXISTING RADIO ANTENNA
- 2. EXISTING WELL MOTOR STARTER TO BE REUSED. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW INSTRUMENTATION WIRING TO NEW CP-RTU. REFER TO INSTRUMENTATION I/O AND CABLE SCHEDULE FOR ADDITIONAL INFORMATION.
- 3. DEMO EXISTING INSTRUMENTATION JUNCTION BOXES AFTER TRANSFER OF ALL CONTROL TO NEW CP-RTU. REMOVE ALL WIRING AND EQUIPMENT ASSOCIATED WITH JUNCTION BOXES. REFER TO INSTRUMENTATION SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
- 4. INSTALL NEW CP-RTU AND ANTENNA MAST IN APPROXIMATE LOCATION. REFER TO INSTRUMENTATION I/O, CABLE SCHEDULE, SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION. SCADA SUBCONTRACTOR TO INSTALL ALL REQUIRED WIRING AND HARDWARE ANTENNA TO MATCH CP-RTU RADIO COMPONENTS. REFER TO CP-RTU CONTROL PANEL LAYOUT FOR ADDITIONAL INFORMATION.
- 5. INSTALL INSTRUMENTATION WIRING FROM CP-RTU TO EXISTING FLOW METER. CONTRACTOR SHALL PROVIDE ALL WIRING TO EXISTING FLOW METER AS NEEDED. ALL NEW WIRING SHALL BE IN NEW CONDUIT. REFER TO INSTALLATION DETAIL FOR ADDITIONAL INFORMATION. REFER TO INSTRUMENTATION I/O AND CABLE SCHEDULE. FOR ADDITIONAL INFORMATION.
- 6. INSTALL ALL WIRING FROM EXISTING EMERGENCY STOP PUSHBUTTON TO CP-RTU PER INSTRUMENTATION I/O AND CABLE SCHEDULE.
- 7. INSTALL DEDICATED TWO (2) -120V, 20A BRANCH CIRCUITS TO NEW RTU PANEL. ONE CIRCUIT TO BE USED FOR INTERNAL POWER SUPPLY WHILE THE SECOND TO BE USED FOR INTERNATIONAL CONTROL PANEL RECEPTACLE. CONTRACTOR SHALL ROUTE NEW BRANCH CIRCUITS TO EXISTING POWER PANEL AND PROVIDE NEW BREAKERS WITHIN EXISTING PANEL TO MATCH ORIGINAL PANEL MANUFACTURE REQUIREMENTS. ALL WIRING SHALL BE IN 3/4" EMT CONDUIT.

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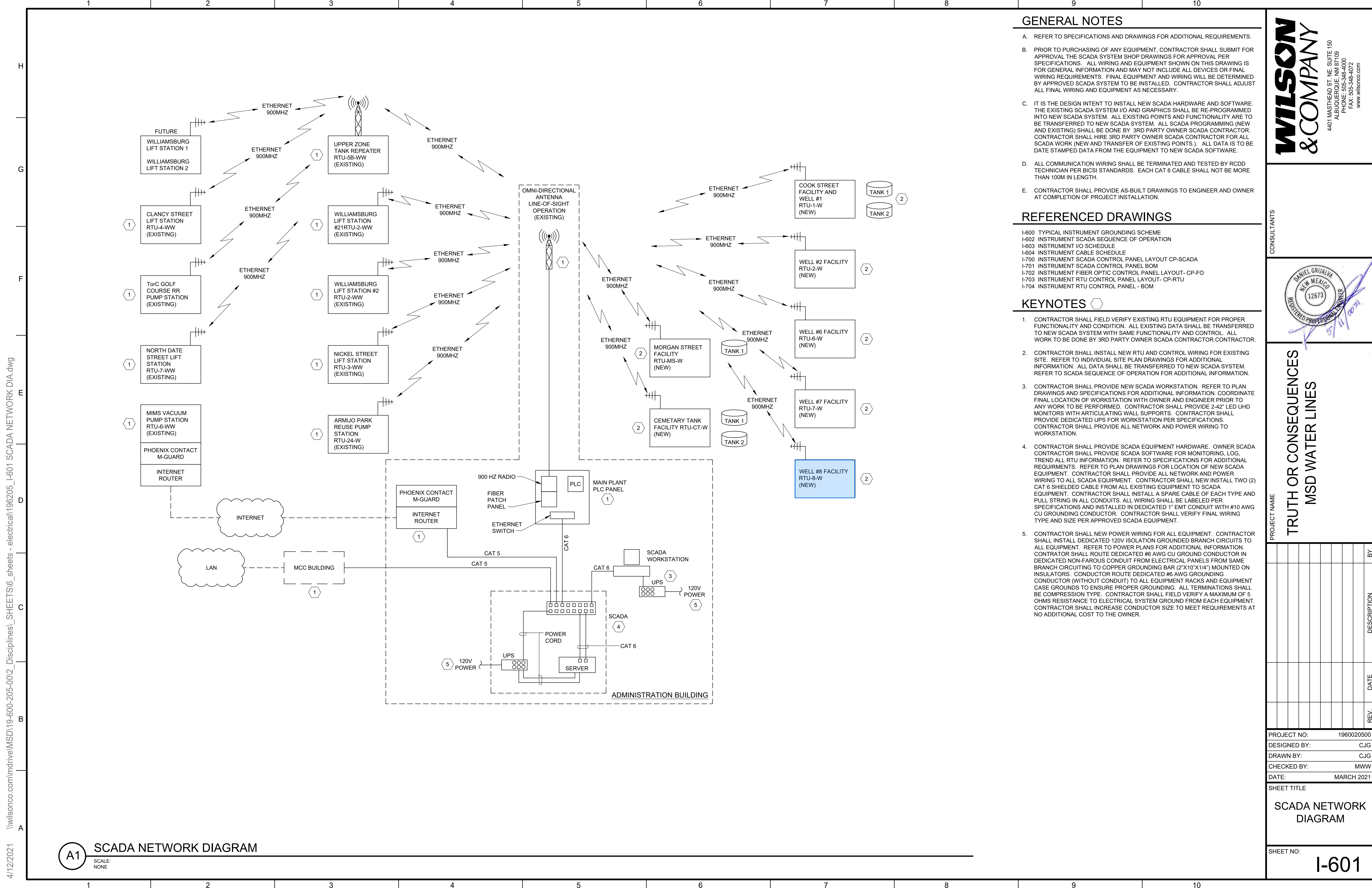
PROJECT NAME
**TRUTH OR CONSEQUENCES
MSD WATER LINES**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1960020500
DESIGNED BY: CJG
DRAWN BY: CJG
CHECKED BY: MWW
DATE: MARCH 2021

SHEET TITLE
**INSTRUMENTATION
PLAN - WELL #8**

SHEET NO:
I-180



GENERAL NOTES

- A. REFER TO SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- B. PRIOR TO PURCHASING OF ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT FOR APPROVAL THE SCADA SYSTEM SHOP DRAWINGS FOR APPROVAL PER SPECIFICATIONS. ALL WIRING AND EQUIPMENT SHOWN ON THIS DRAWING IS FOR GENERAL INFORMATION AND MAY NOT INCLUDE ALL DEVICES OR FINAL WIRING REQUIREMENTS. FINAL EQUIPMENT AND WIRING WILL BE DETERMINED BY APPROVED SCADA SYSTEM TO BE INSTALLED. CONTRACTOR SHALL ADJUST ALL FINAL WIRING AND EQUIPMENT AS NECESSARY.
- C. IT IS THE DESIGN INTENT TO INSTALL NEW SCADA HARDWARE AND SOFTWARE. THE EXISTING SCADA SYSTEM I/O AND GRAPHICS SHALL BE RE-PROGRAMMED INTO NEW SCADA SYSTEM. ALL EXISTING POINTS AND FUNCTIONALITY ARE TO BE TRANSFERRED TO NEW SCADA SYSTEM. ALL SCADA PROGRAMMING (NEW AND EXISTING) SHALL BE DONE BY 3RD PARTY OWNER SCADA CONTRACTOR. CONTRACTOR SHALL HIRE 3RD PARTY OWNER SCADA CONTRACTOR FOR ALL SCADA WORK (NEW AND TRANSFER OF EXISTING POINTS.). ALL DATA IS TO BE DATE STAMPED DATA FROM THE EQUIPMENT TO NEW SCADA SOFTWARE.
- D. ALL COMMUNICATION WIRING SHALL BE TERMINATED AND TESTED BY RCDD TECHNICIAN PER BICSI STANDARDS. EACH CAT 6 CABLE SHALL NOT BE MORE THAN 100M IN LENGTH.
- E. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO ENGINEER AND OWNER AT COMPLETION OF PROJECT INSTALLATION.

REFERENCED DRAWINGS

- I-600 TYPICAL INSTRUMENT GROUNDING SCHEME
- I-602 INSTRUMENT SCADA SEQUENCE OF OPERATION
- I-603 INSTRUMENT I/O SCHEDULE
- I-604 INSTRUMENT CABLE SCHEDULE
- I-700 INSTRUMENT SCADA CONTROL PANEL LAYOUT CP-SCADA
- I-701 INSTRUMENT SCADA CONTROL PANEL BOM
- I-702 INSTRUMENT FIBER OPTIC CONTROL PANEL LAYOUT- CP-FO
- I-703 INSTRUMENT RTU CONTROL PANEL LAYOUT- CP-RTU
- I-704 INSTRUMENT RTU CONTROL PANEL - BOM

KEYNOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING RTU EQUIPMENT FOR PROPER FUNCTIONALITY AND CONDITION. ALL EXISTING DATA SHALL BE TRANSFERRED TO NEW SCADA SYSTEM WITH SAME FUNCTIONALITY AND CONTROL. ALL WORK TO BE DONE BY 3RD PARTY OWNER SCADA CONTRACTOR.
2. CONTRACTOR SHALL INSTALL NEW RTU AND CONTROL WIRING FOR EXISTING SITE. REFER TO INDIVIDUAL SITE PLAN DRAWINGS FOR ADDITIONAL INFORMATION. ALL DATA SHALL BE TRANSFERRED TO NEW SCADA SYSTEM. REFER TO SCADA SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL PROVIDE NEW SCADA WORKSTATION. REFER TO PLAN DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION OF WORKSTATION WITH OWNER AND ENGINEER PRIOR TO ANY WORK TO BE PERFORMED. CONTRACTOR SHALL PROVIDE 2-42" LED UHD MONITORS WITH ARTICULATING WALL SUPPORTS. CONTRACTOR SHALL PROVIDE DEDICATED UPS FOR WORKSTATION PER SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL NETWORK AND POWER WIRING TO WORKSTATION.
4. CONTRACTOR SHALL PROVIDE SCADA EQUIPMENT HARDWARE. OWNER SCADA CONTRACTOR SHALL PROVIDE SCADA SOFTWARE FOR MONITORING, LOG, TREND ALL RTU INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO PLAN DRAWINGS FOR LOCATION OF NEW SCADA EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL NETWORK AND POWER WIRING TO ALL SCADA EQUIPMENT. CONTRACTOR SHALL NEW INSTALL TWO (2) CAT 6 SHIELDED CABLE FROM ALL EXISTING EQUIPMENT TO SCADA EQUIPMENT. CONTRACTOR SHALL INSTALL A SPARE CABLE OF EACH TYPE AND PULL STRING IN ALL CONDUITS. ALL WIRING SHALL BE LABELED PER SPECIFICATIONS AND INSTALLED IN DEDICATED 1" EMT CONDUIT WITH #10 AWG CU GROUNDING CONDUCTOR. CONTRACTOR SHALL VERIFY FINAL WIRING TYPE AND SIZE PER APPROVED SCADA EQUIPMENT.
5. CONTRACTOR SHALL NEW POWER WIRING FOR ALL EQUIPMENT. CONTRACTOR SHALL INSTALL DEDICATED 120V ISOLATION GROUNDED BRANCH CIRCUITS TO ALL EQUIPMENT. REFER TO POWER PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL ROUTE DEDICATED #6 AWG CU GROUND CONDUCTOR IN DEDICATED NON-FAROUS CONDUIT FROM ELECTRICAL PANELS FROM SAME BRANCH CIRCUITING TO COPPER GROUNDING BAR (2"x10"x1/4") MOUNTED ON INSULATORS. CONDUCTOR ROUTE DEDICATED #6 AWG GROUNDING CONDUCTOR (WITHOUT CONDUIT) TO ALL EQUIPMENT RACKS AND EQUIPMENT CASE GROUNDS TO ENSURE PROPER GROUNDING. ALL TERMINATIONS SHALL BE COMPRESSION TYPE. CONTRACTOR SHALL FIELD VERIFY A MAXIMUM OF 5 OHMS RESISTANCE TO ELECTRICAL SYSTEM GROUND FROM EACH EQUIPMENT. CONTRACTOR SHALL INCREASE CONDUCTOR SIZE TO MEET REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

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**TRUTH OR CONSEQUENCES
MSD WATER LINES**

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 1960020500
 DESIGNED BY: CJG
 DRAWN BY: CJG
 CHECKED BY: MWW
 DATE: MARCH 2021

SHEET TITLE
**SCADA NETWORK
DIAGRAM**

SHEET NO:
I-601

A1 SCADA NETWORK DIAGRAM
 SCALE: NONE

4/12/2021 \\wilsonco.com\mdrive\MSD\19-600-205-002_Disciplines\SHEETS\6_sheets - electrical\196205_1-601 SCADA NETWORK DIA.dwg