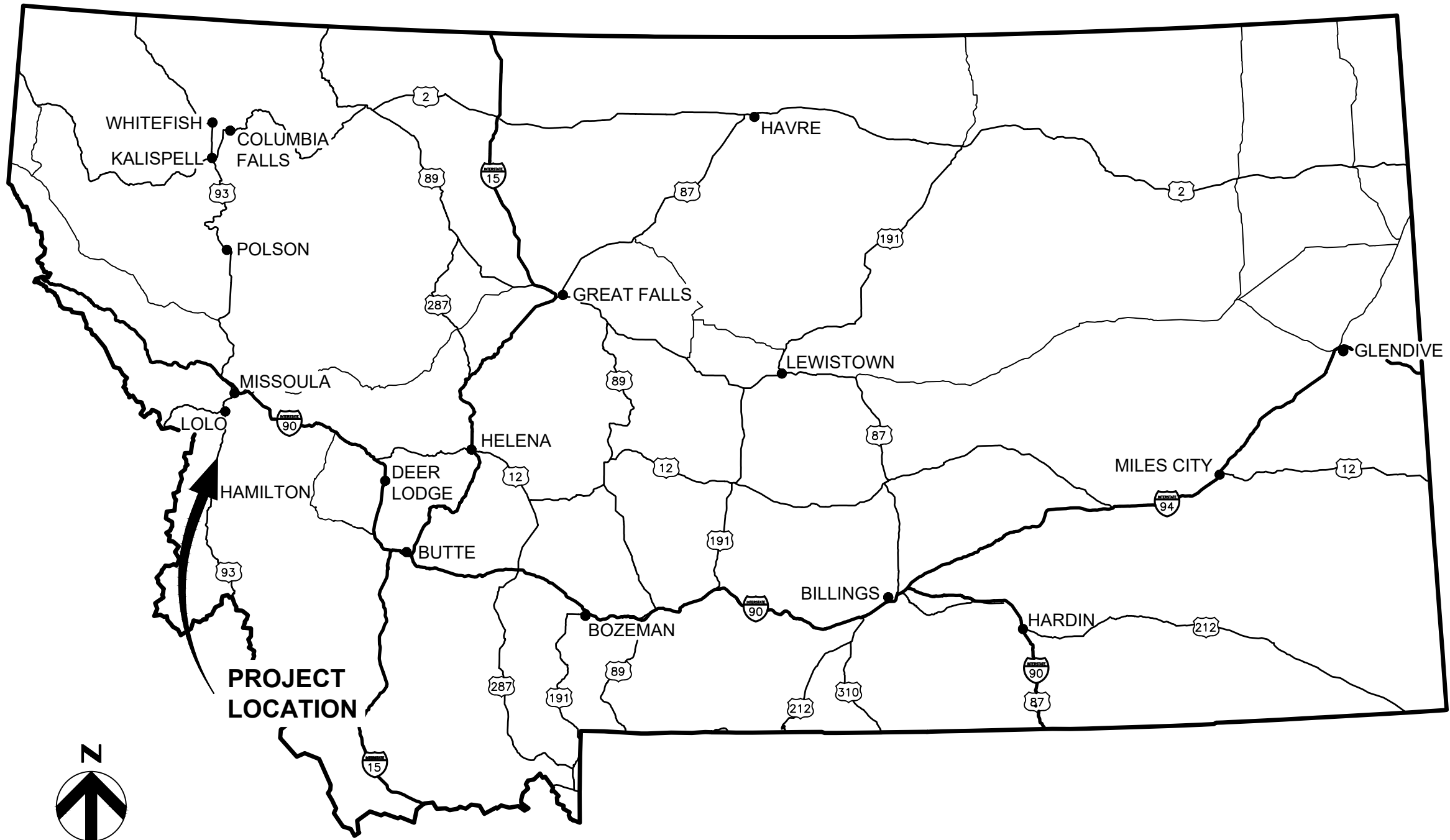
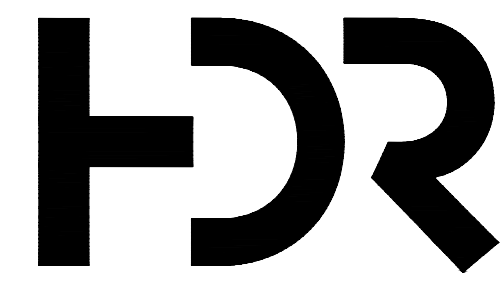


NOT TO SCALE

REGIONAL MAP
STATE OF MONTANA

Contract Drawings For

Town of Stevensville

WATER TELEMETRY SYSTEM UPGRADE

Project No.
10235808

Stevensville, Montana
June 2025

INDEX OF DRAWINGS

GENERAL

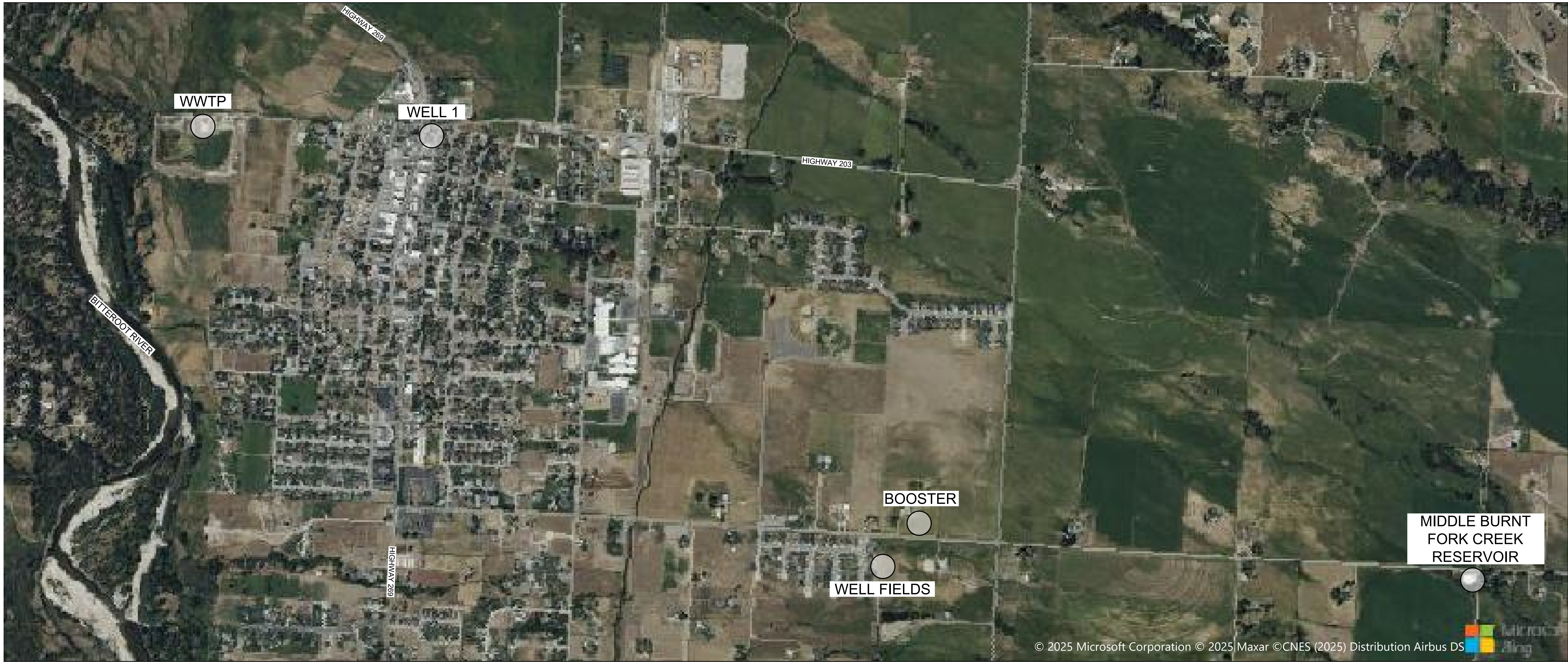
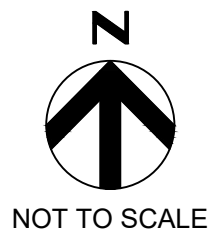
000G-01	COVER SHEET
000G-02	LOCATION MAP
000G-03	NOTES, MATERIALS AND SYMBOLOGY
000G-04	PLC PANEL GENERAL INFORMATION LEGEND
000G-05	TELE BLOCK DIAGRAM
000G-06	SITE NETWORK DIAGRAM

ELECTRICAL

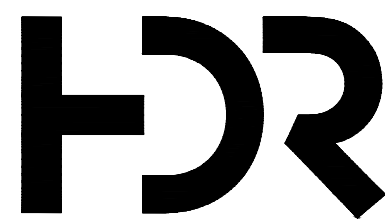
100E-01	WELL 1 PHOTO DETAILS AND DEMOLITION
100E-02	WELL 1 ELECTRICAL PLAN
200E-01	MBFC RESERVOIR PHOTO DETAILS AND DEMOLITION
200E-02	MBFC RESERVOIR ELECTRICAL PLAN
400E-01	WELL FIELDS PHOTO DETAILS AND DEMOLITION
400E-02	WELL FIELDS ELECTRICAL PLAN

INSTRUMENTATION

100Y-01	WELL 1 TELEMETRY CONTROL PANEL LAYOUT
100Y-02	WELL 1 TELEMETRY CONTROL PANEL TERMINAL BLOCK WIRING DIAGRAM
100Y-03	WELL 1 TELEMETRY CONTROL PANEL DISCRETE INPUT WIRING DIAGRAM
100Y-04	WELL 1 TELEMETRY CONTROL PANEL DISCRETE OUTPUT WIRING DIAGRAM
100Y-05	WELL 1 TELEMETRY CONTROL PANEL ANALOG INPUT WIRING DIAGRAM
100Y-06	WELL 1 TELEMETRY CONTROL PANEL ANALOG OUTPUT WIRING DIAGRAM
200Y-01	MBFC RESERVOIR TELEMETRY CONTROL PANEL LAYOUT
200Y-02	MBFC RESERVOIR TELEMETRY CONTROL PANEL TERMINAL BLOCK WIRING DIAGRAM
200Y-03	MBFC RESERVOIR TELEMETRY CONTROL PANEL DISCRETE INPUT WIRING DIAGRAM
200Y-04	MBFC RESERVOIR TELEMETRY CONTROL PANEL ANALOG INPUT WIRING DIAGRAM
400Y-01	WELL FIELDS TELEMETRY CONTROL PANEL LAYOUT
400Y-02	WELL FIELDS TELEMETRY CONTROL PANEL TERMINAL BLOCK WIRING DIAGRAM 1
400Y-03	WELL FIELDS TELEMETRY CONTROL PANEL TERMINAL BLOCK WIRING DIAGRAM 2
400Y-04	WELL FIELDS TELEMETRY CONTROL PANEL DISCRETE INPUT WIRING DIAGRAM 1
400Y-05	WELL FIELDS TELEMETRY CONTROL PANEL DISCRETE INPUT WIRING DIAGRAM 2
400Y-06	WELL FIELDS TELEMETRY CONTROL PANEL DISCRETE INPUT WIRING DIAGRAM 3
400Y-07	WELL FIELDS TELEMETRY CONTROL PANEL DISCRETE OUTPUT WIRING DIAGRAM
400Y-08	WELL FIELDS TELEMETRY CONTROL PANEL ANALOG INPUT WIRING DIAGRAM 1
400Y-09	WELL FIELDS TELEMETRY CONTROL PANEL ANALOG INPUT WIRING DIAGRAM 2
400Y-10	WELL FIELDS TELEMETRY CONTROL PANEL ANALOG OUTPUT WIRING DIAGRAM

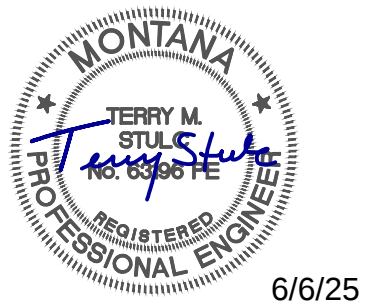


LOCATION MAP
STEVENSVILLE, MT



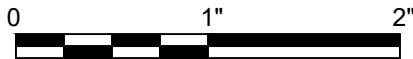
0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER		TERRY STULG
DESIGNER 1		M. SMITH
DRAWN BY		K. WULF
PROJECT NUMBER		10235808



Town of Stevensville
Water Telemetry
System Upgrade

2025



GENERAL
LOCATION MAP

FILENAME	000G-02.dwg
SCALE	NONE

SHEET
000G-02

LABEL DETAILS TO BE
PROVIDED BY PANEL BUILDER

L1

Serial Number:		Customer ID:	
Line Voltage: 120VAC	Phase: 1	Source: 3 WIRE	Frequency: 60 HZ
Control Voltage: 120VAC/24VDC	Largest Motor:	Total F.L.A.:	
Wired By:	Tested By:	Date:	
Control Systems Contact:			
Ref. Drawing:	Enclosure Type: 12		
Short Circuit Current Rating:			

L2

TO MAINTAIN ENCLOSURE RATING, USE HUBS OR FITTINGS WITH THE SAME ENVIRONMENTAL RATING AS THE ENCLOSURE.
O-Z/Gedney-CHM Series, Hubs Appleton- HUB Series Hubs, T&B- H Series Hubs



PANEL LABEL LEGEND

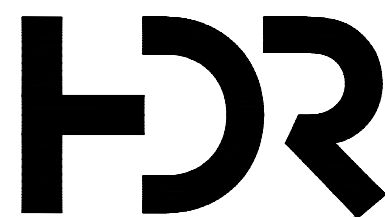
L4

CAUTION
THIS EQUIPMENT
IS SUPPLIED BY
MORE THAN ONE
POWER SOURCE

L5

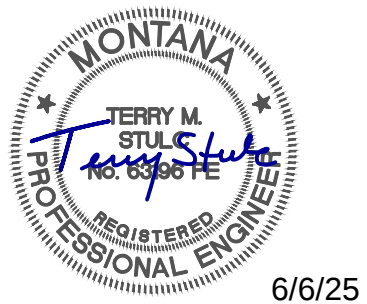
CAUTION
UPS VOLTAGE
PRESENT WHEN
POWER IS OFF

- L6
- USE COPPER CONDUCTORS ONLY
RATED AT 60°C OR HIGHER.
- L7
- USE COPPER CONDUCTORS ONLY
RECOMMENDED TORQUE: 5.3 IN. LB.
- L8
- USE COPPER CONDUCTORS ONLY
RECOMMENDED TORQUE: 8.9 IN. LB.
- L9
- USE COPPER CONDUCTORS ONLY
RECOMMENDED TORQUE: 4.0 IN. LB.
- L10
- DIAGNOSTIC EQUIPMENT ONLY
10 AMP
- PANEL BUILDER TO PROVIDE
APPROPRIATE ARC FLASH LABEL
- L11
- ARC FLASH



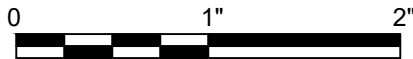
0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER TERRY STULG	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

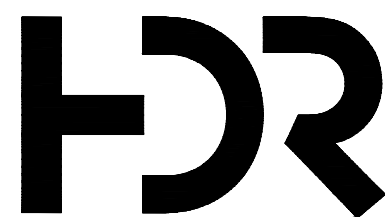
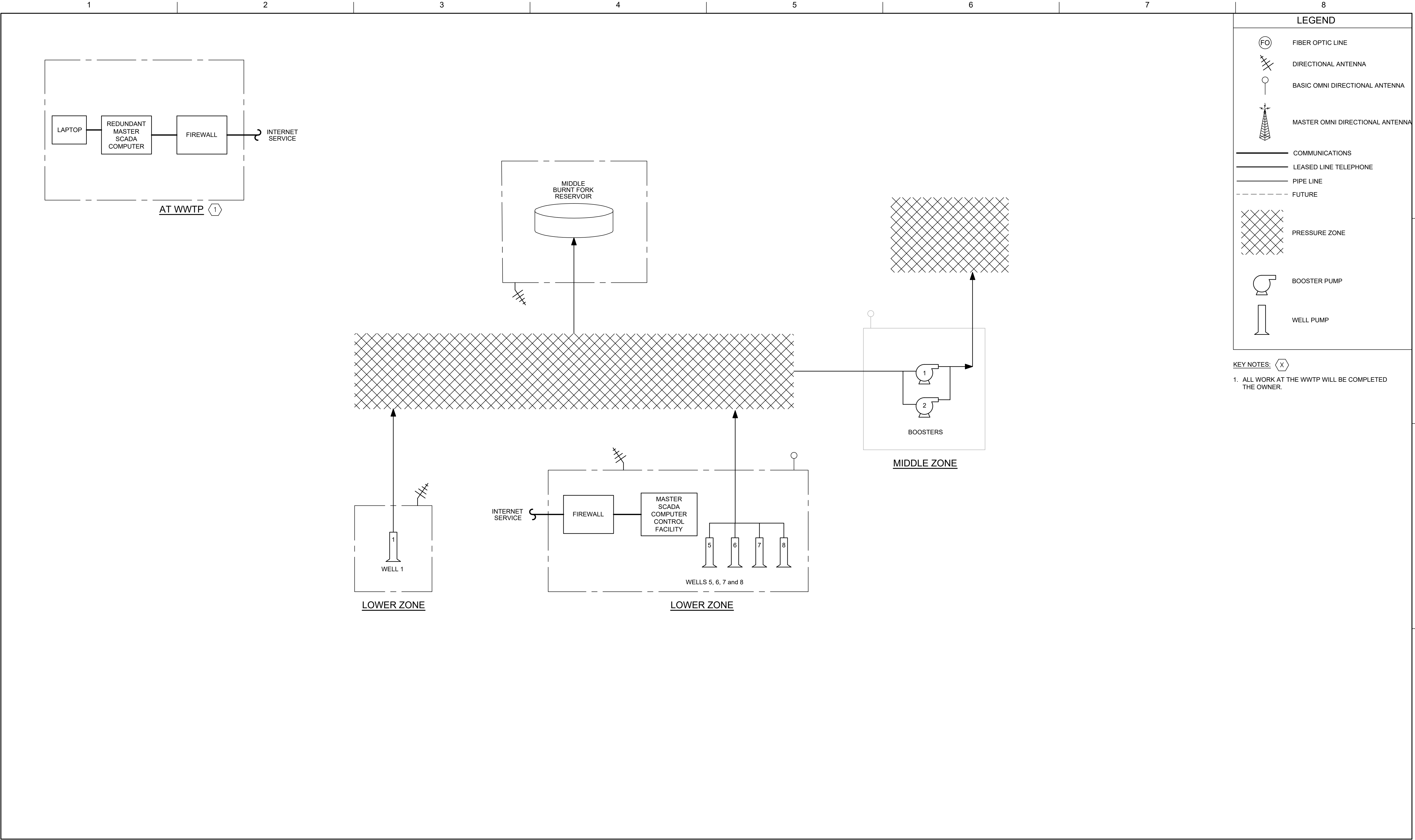
2025



INSTRUMENTATION
PLC PANEL
INFORMATION LEGEND

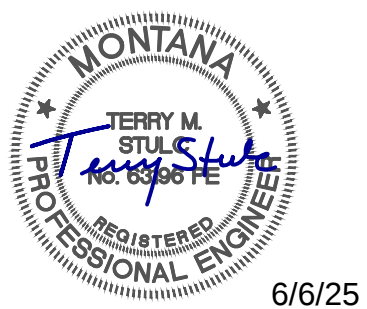
FILENAME	000G-04.DWG
SCALE	NONE

SHEET
000G-04



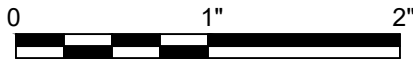
0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

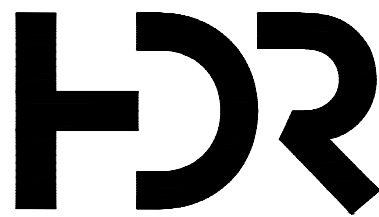
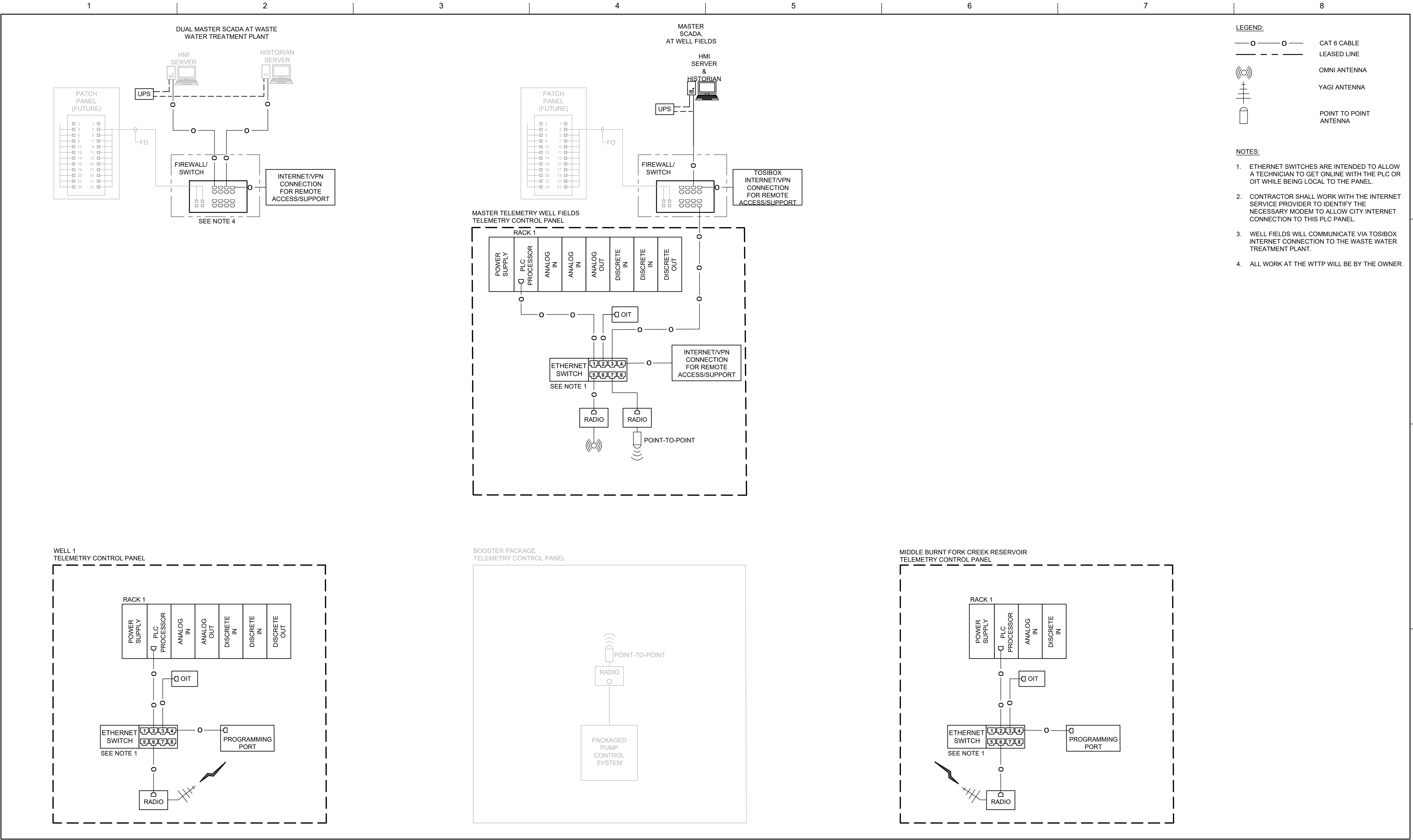
2025



INSTRUMENTATION
TELEMETRY BLOCK DIAGRAM

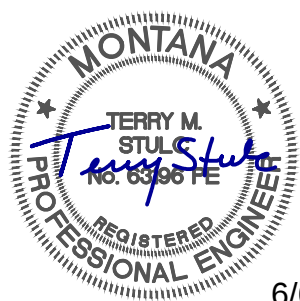
FILENAME	000G-05.dwg
SCALE	NONE

SHEET
000G-05



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

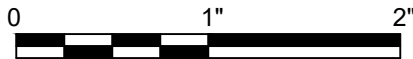
PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

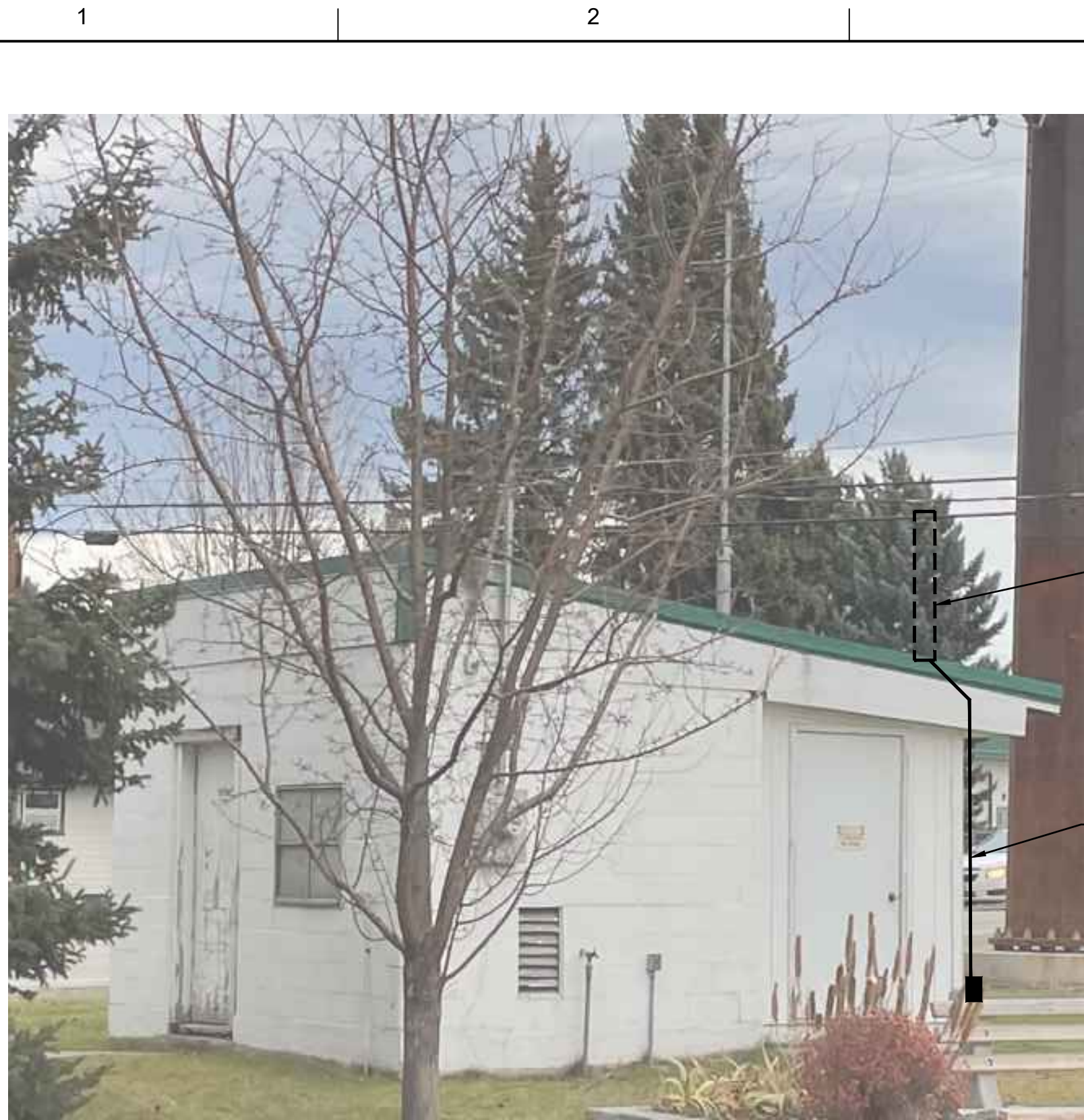
2025

INSTRUMENTATION
SITE NETWORK DIAGRAM



FILENAME	000G-06.dwg
SCALE	NONE

SHEET
000G-06



1
100E-02
TELEMETRY ANTENNA SIDE VIEW
NOT TO SCALE



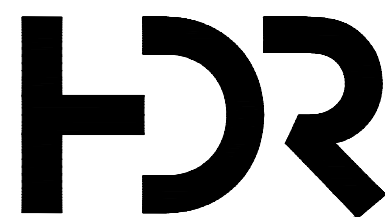
2
100E-02
TELEMETRY PANEL FRONT VIEW
NOT TO SCALE



3
100E-02
NEW EYE WASH STATION LOCATION
NOT TO SCALE

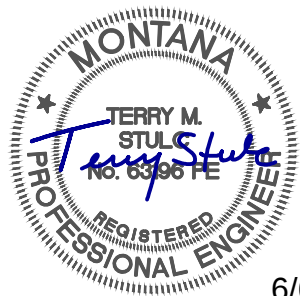
KEY NOTES: (X)

1. CONTRACTOR SHALL BRING NEW CONDUIT AND WIRE FROM THE FIELD INTO THE NEW PANEL.
2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW PANEL AND MOUNTING HARDWARE.
3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ANTENNA AND LIGHTNING ARRESTOR AT ANTENNA WEATHER HEAD. THE ANTENNA SHALL BE GROUNDED PER NEC 810.21.
4. CONTRACTOR SHALL GROUND TELEMETRY ANTENNA LIGHTNING ARRESTOR TO NEW GROUND ROD IN GROUND WELL.
5. CONTRACTOR SHALL REMOVE THE EYE WASH STATION AND INSTALL IN NEW LOCATION.



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



6/6/25

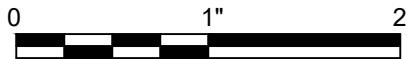


Stevensville, MT

Town of Stevensville
Water Telemetry
System Upgrade

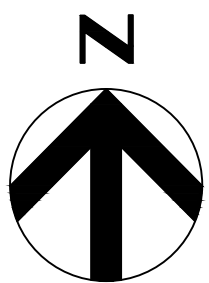
2025

ELECTRICAL
WELL 1 ELECTRICAL
PHOTO DETAILS AND DEMOLITION



FILENAME	100E-01.dwg
SCALE	NONE

SHEET
100E-01



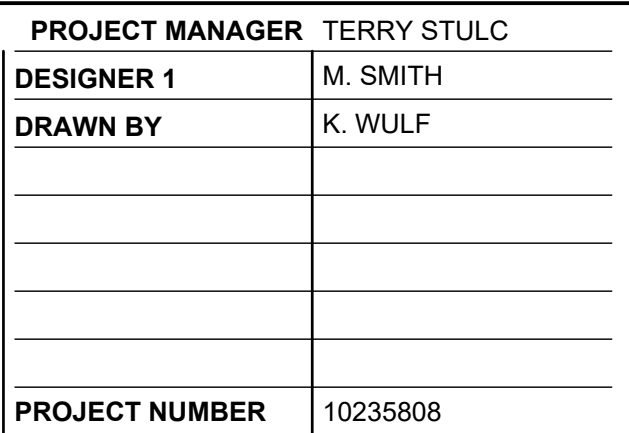
NOTES:

1. CONTRACTOR SHALL ROUTE CONDUIT AND WIRE TO SHOWN LOCATION. THEN TAPE AND COIL WIRE FOR FUTURE USE.

LEGEND

S - ANALOG
P - POWER
C - CONTROL
G - GROUND
T - TELECOM

NOT TO SCALE



2025

FILENAME	100E-02.dwg
SCALE	NONE

SHEET
100E-02



1 EXISTING ANTENNA BOTTOM VIEW
200E-02 NOT TO SCALE

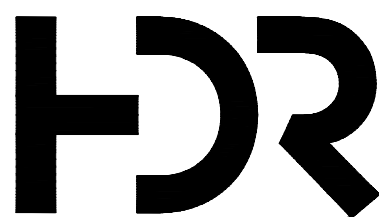


2 EXISTING ANTENNA CONDUIT VIEW
200E-02 NOT TO SCALE



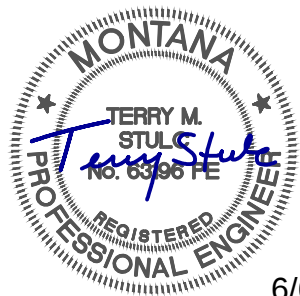
3 EXISTING TELEMETRY PANEL FRONT VIEW
200E-02 NOT TO SCALE

- KEY NOTES:
1. CONTRACTOR SHALL BRING NEW CONDUIT AND WIRE FROM THE FIELD INTO THE NEW PANEL.
 2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW PANEL AND MOUNTING HARDWARE.
 3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ANTENNA AND LIGHTNING ARRESTOR AT ANTENNA WEATHER HEAD. THE ANTENNA SHALL BE GROUNDED PER NEC 810.21.
 4. CONTRACTOR SHALL GROUND TELEMETRY ANTENNA LIGHTNING ARRESTOR TO NEW GROUND ROD IN GROUND WELL.



ISSUE	DATE	DESCRIPTION
0	6/6/2025	ISSUED FOR BID

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



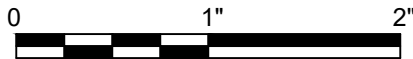
6/6/25



Town of Stevensville
Water Telemetry
System Upgrade

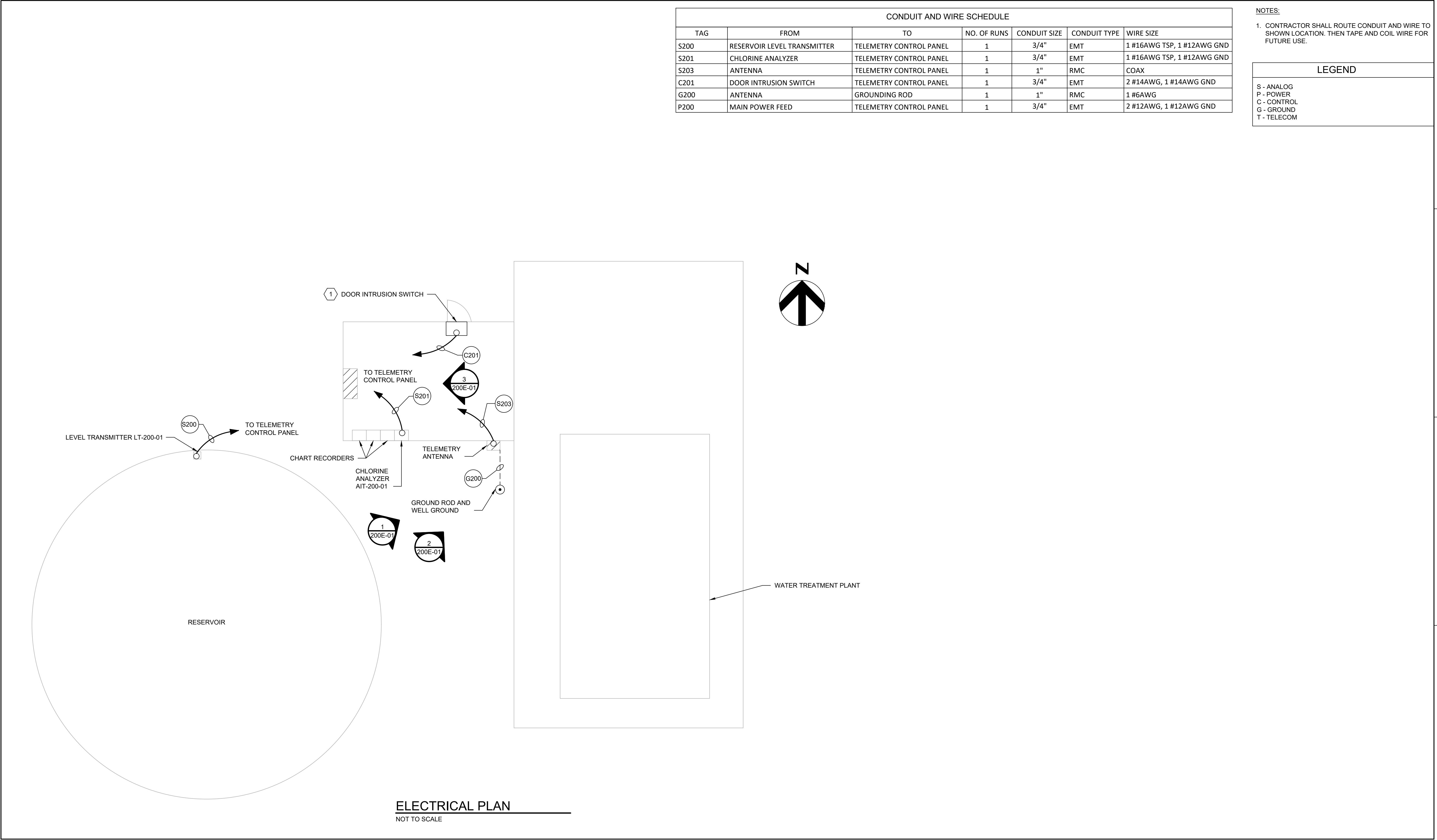
2025

ELECTRICAL
MBFC RESERVOIR
PHOTO DETAILS AND DEMOLITION



FILENAME | 200E-01.dwg
SCALE | NONE

SHEET
200E-01

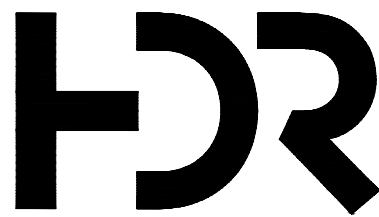


CONDUIT AND WIRE SCHEDULE						
TAG	FROM	TO	NO. OF RUNS	CONDUIT SIZE	CONDUIT TYPE	WIRE SIZE
S200	RESERVOIR LEVEL TRANSMITTER	TELEMETRY CONTROL PANEL	1	3/4"	EMT	1 #16AWG TSP, 1 #12AWG GND
S201	CHLORINE ANALYZER	TELEMETRY CONTROL PANEL	1	3/4"	EMT	1 #16AWG TSP, 1 #12AWG GND
S203	ANTENNA	TELEMETRY CONTROL PANEL	1	1"	RMC	COAX
C201	DOOR INTRUSION SWITCH	TELEMETRY CONTROL PANEL	1	3/4"	EMT	2 #14AWG, 1 #14AWG GND
G200	ANTENNA	GROUNDING ROD	1	1"	RMC	1 #6AWG
P200	MAIN POWER FEED	TELEMETRY CONTROL PANEL	1	3/4"	EMT	2 #12AWG, 1 #12AWG GND

NOTES:
1. CONTRACTOR SHALL ROUTE CONDUIT AND WIRE TO SHOWN LOCATION. THEN TAPE AND COIL WIRE FOR FUTURE USE.

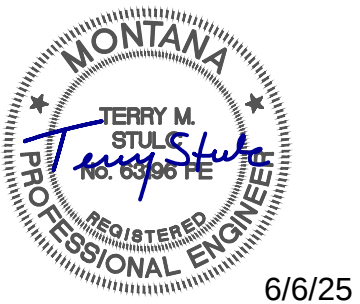
LEGEND
S - ANALOG
P - POWER
C - CONTROL
G - GROUND
T - TELECOM

ELECTRICAL PLAN
NOT TO SCALE



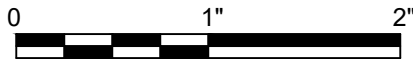
0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

2025



ELECTRICAL
MBFC RESERVOIR
ELECTRICAL PLAN

FILENAME	200E-02.dwg
SCALE	NONE

SHEET
200E-02



1
400E-02
EXISTING TELEMETRY ANTENNA YAGI FRONT VIEW
NOT TO SCALE



2
400E-02
EXISTING TELEMETRY PANEL SIDE VIEW
NOT TO SCALE



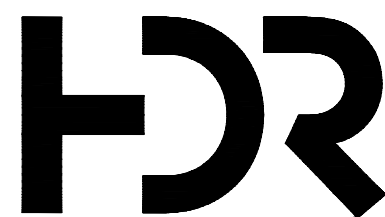
3
400E-02
EXISTING TELEMETRY PANEL FRONT VIEW
NOT TO SCALE



4
400E-02
EXISTING PRESSURE INSTRUMENT
NOT TO SCALE

KEY NOTES: X

1. IDENTIFY AND LABEL THE INCOMING CONDUIT FROM PANEL THEN DISCONNECT, PROTECT THE WIRES BY PULLING THEM BACK, THEN REMOVE THE PANEL.
2. CONTRACTOR SHALL REMOVE MOUNTING HARDWARE. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW PANEL AND MOUNTING HARDWARE IN THE SAME LOCATION. THEM RE-TERMINATE EXISTING CABLES PER PAGES 400Y-04 TO 10.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW ANTENNA AND LIGHTNING ARRESTOR AT ANTENNA WEATHER HEAD. THE ANTENNA SHALL BE GROUNDED PER NEC 810.21
4. CONTRACTOR SHALL GROUND TELEMETRY ANTENNA LIGHTNING ARRESTOR TO NEW GROUND ROD IN GROUND WELL USING A 6 AWG CONDUCTOR IN A 3/4 INCH RIGID METALLIC CONDUIT. CONTRACTOR TO COORDINATE ENGINEER APPROVAL OF LOCATION BEFORE INSTALLATION.
5. CONTRACTOR SHALL MOVE THE SCADA DESK TO ENSURE SPACING REQUIREMENT OF 30 INCHES PER NEC 110.26.
6. CONTRACTOR SHALL REMOVE EXISTING PRESSURE GAUGE AND INSTALL NEW ROSEMOUNT 3051 IN-LINE PRESSURE TRANSMITTER, OR ENGINEER APPROVED EQUIVALENT, IN THE SAME LOCATION.



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



6/6/25

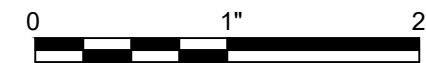


Stevensville, MT

Town of Stevensville
Water Telemetry
System Upgrade

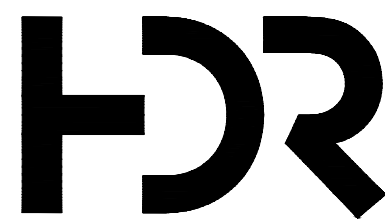
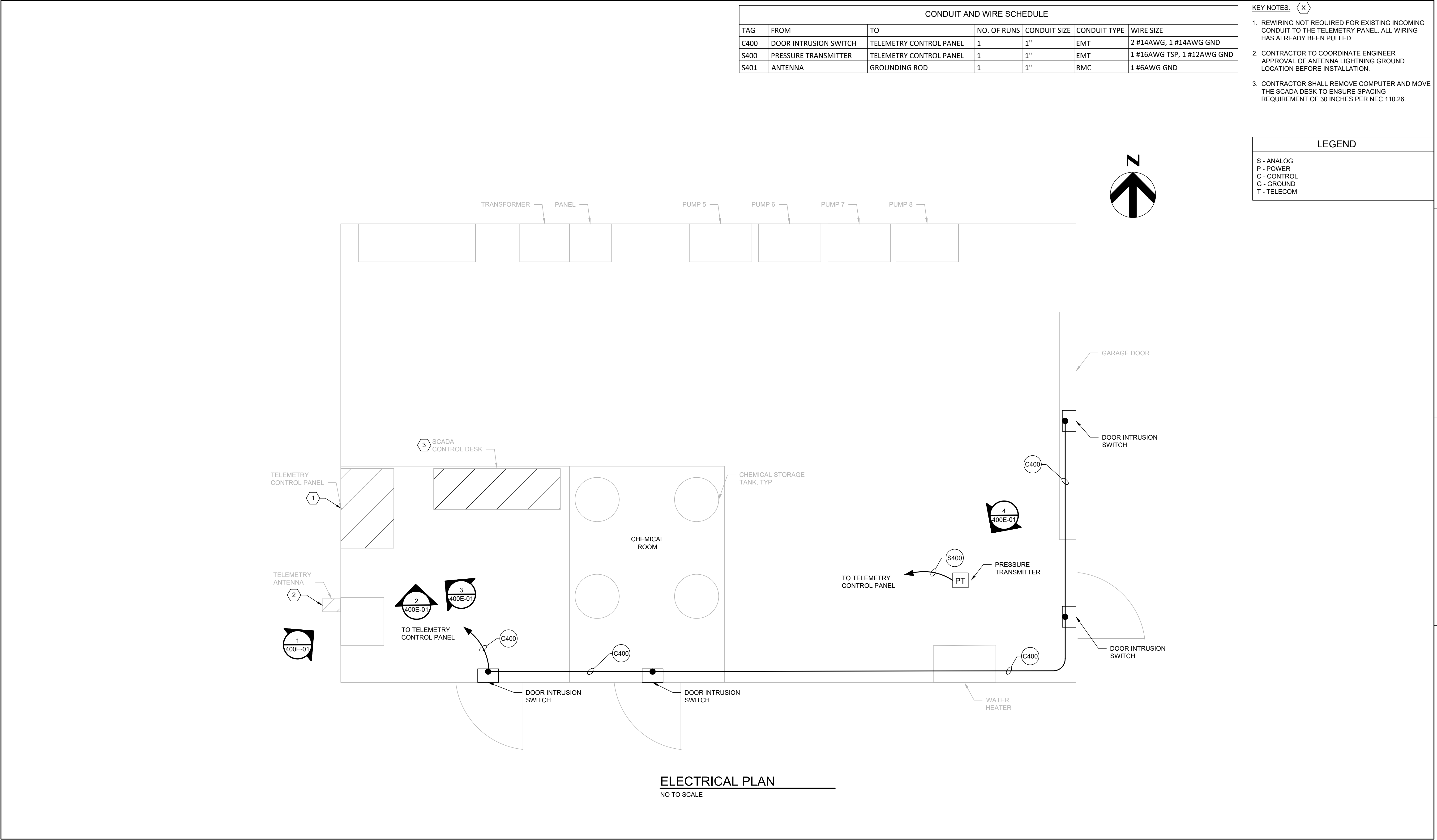
2025

ELECTRICAL
WELL FIELDS
PHOTO DETAILS AND DEMOLITION



FILENAME | 400E-01.dwg
SCALE | NONE

SHEET
400E-01



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



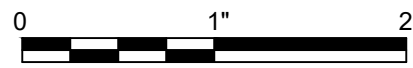
6/6/25



Town of Stevensville
Water Telemetry
System Upgrade

2025

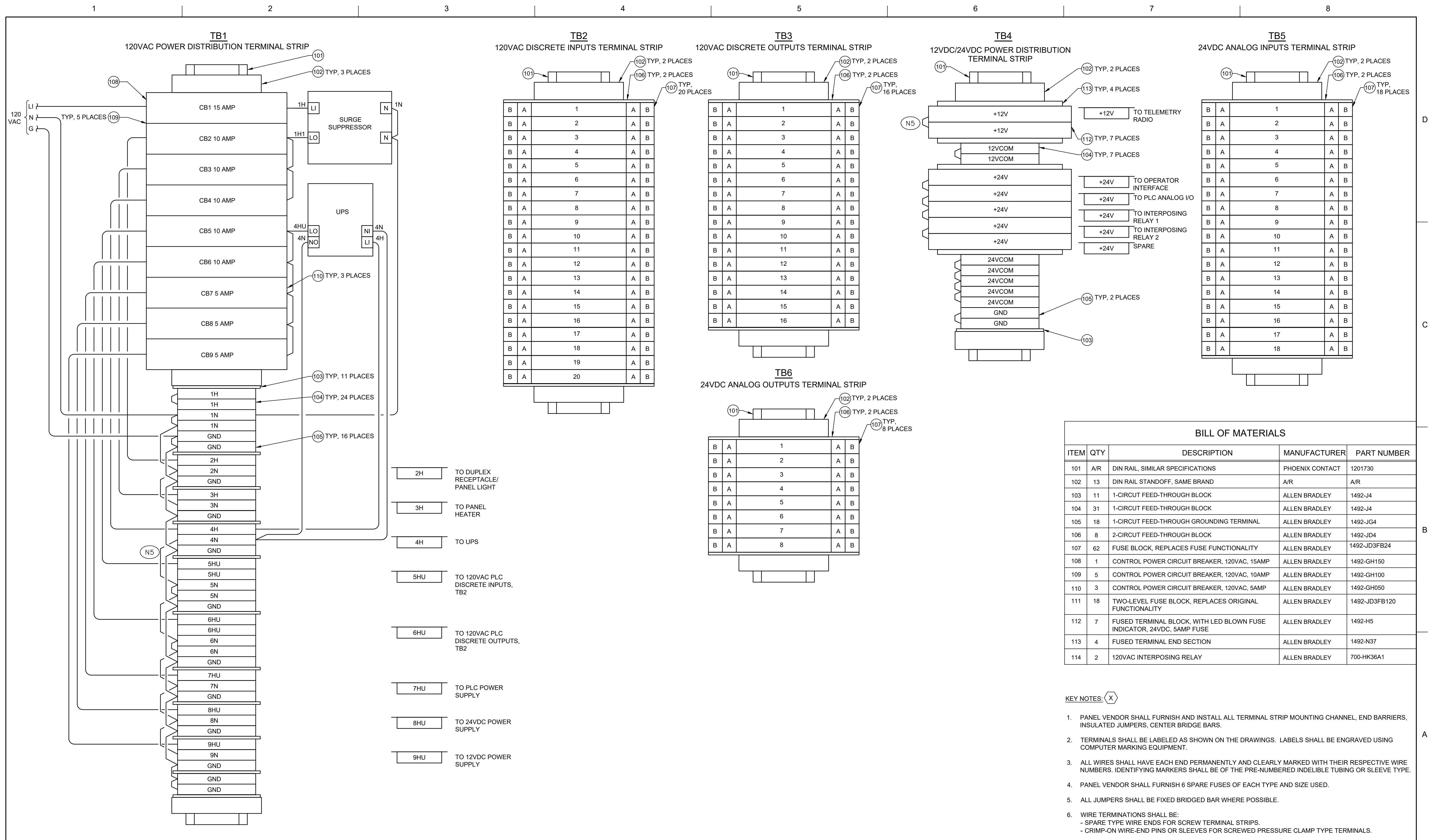
ELECTRICAL
WELL FIELDS
ELECTRICAL PLAN



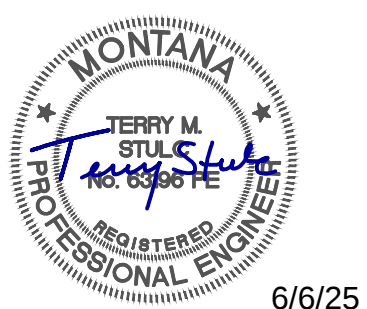
FILENAME	400E-02.dwg
SCALE	NONE

SHEET
400E-02

INSTRUMENTATION WELL 1 TRY CONTROL PANEL LAYOUT

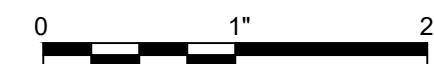


			PROJECT NUMBER	M. SMITH
			DRAWN BY	K. WULF
0	6/6/2025	ISSUED FOR BID		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10235808



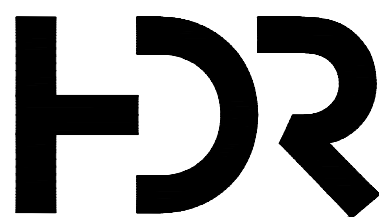
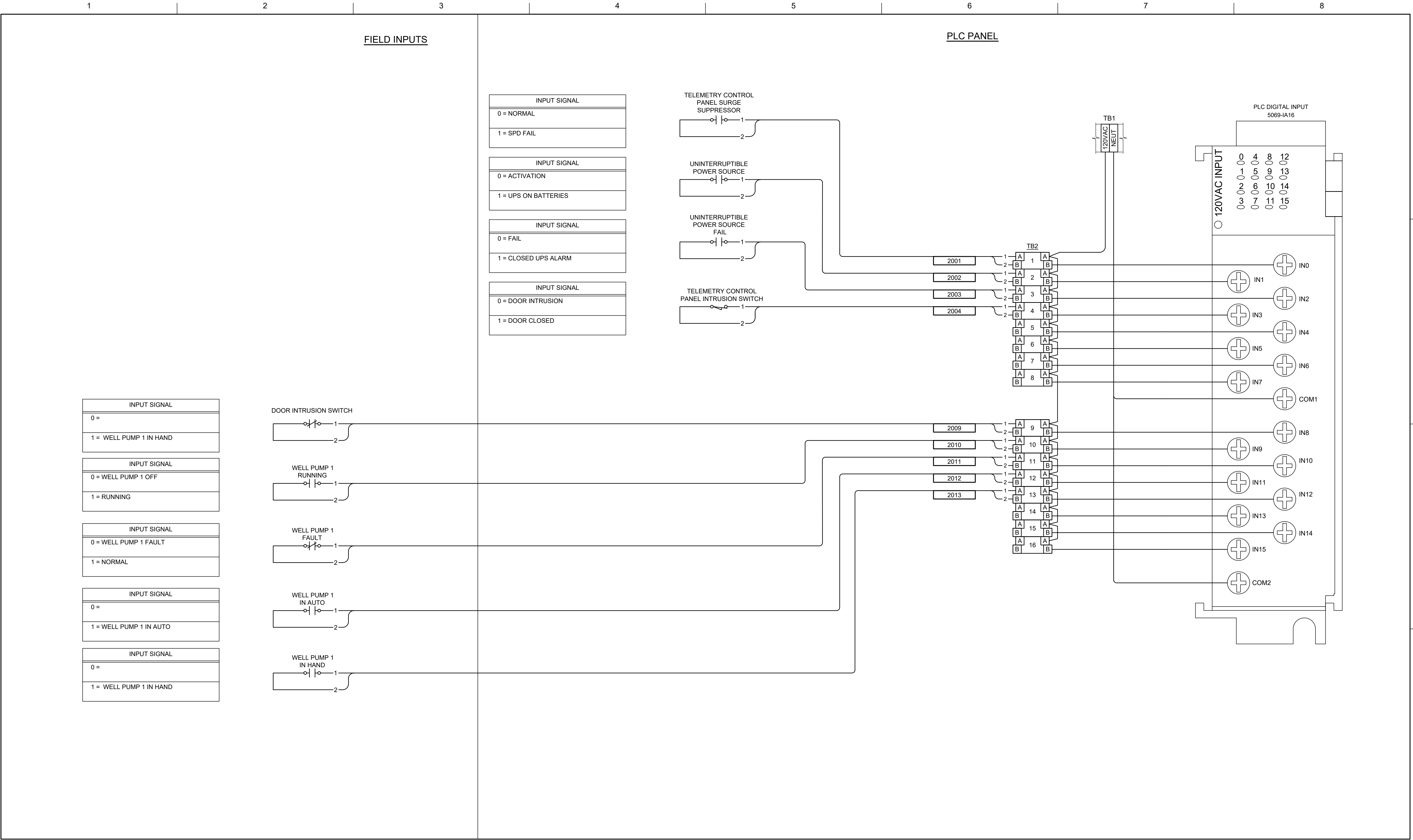
Town of Stevensville Water Telemetry System Upgrade

INSTRUMENTATION WELL 1 TELEMETRY CONTROL PANEL TERMINAL BLOCK WIRING DIAGRAM



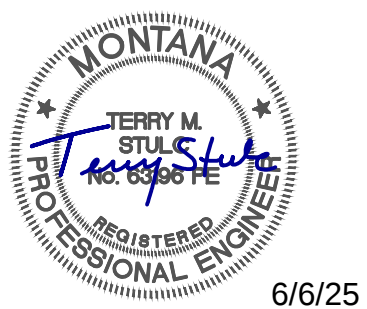
FILENAME	100Y-02.dwg
SCALE	NONE

100Y-02



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

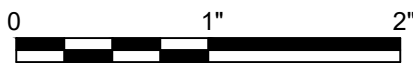
PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

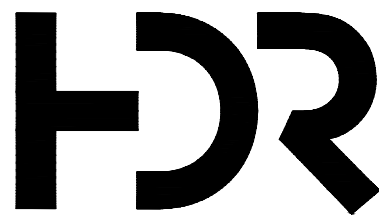
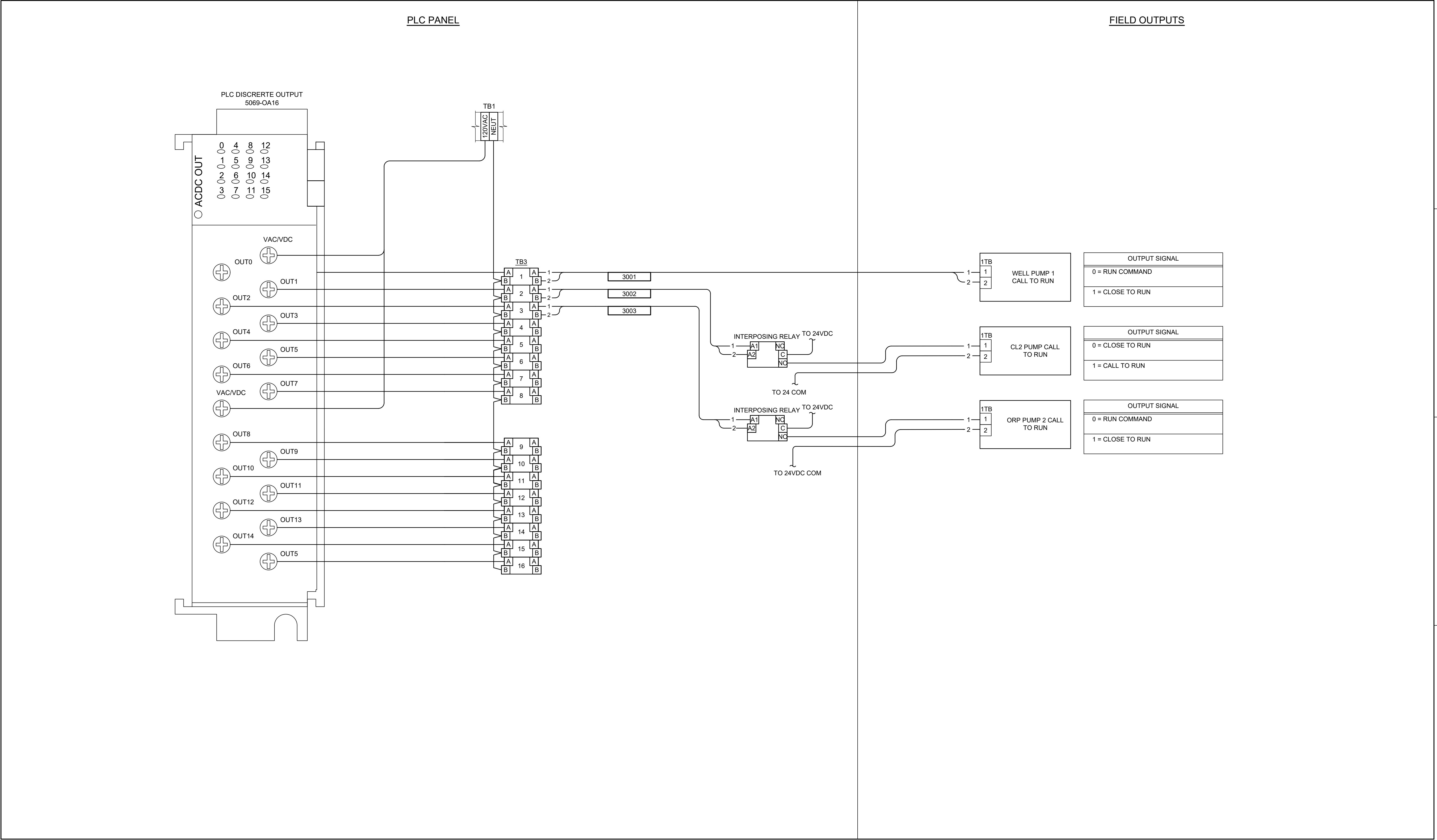
2025

**INSTRUMENTATION
WELL 1
TELEMETRY CONTROL PANEL
DISCRETE INPUT INPUT WIRING DIAGRAM**



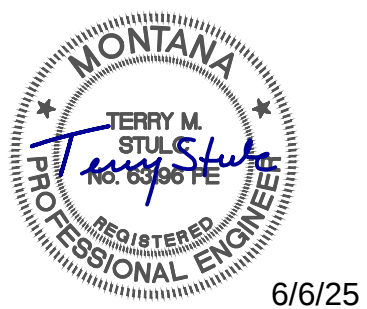
FILENAME | 100Y-03.dwg
SCALE | NONE

SHEET
100Y-03



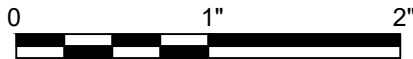
0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

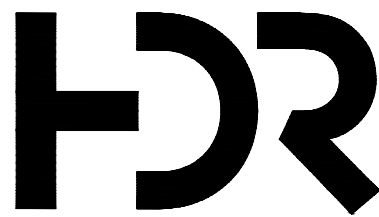
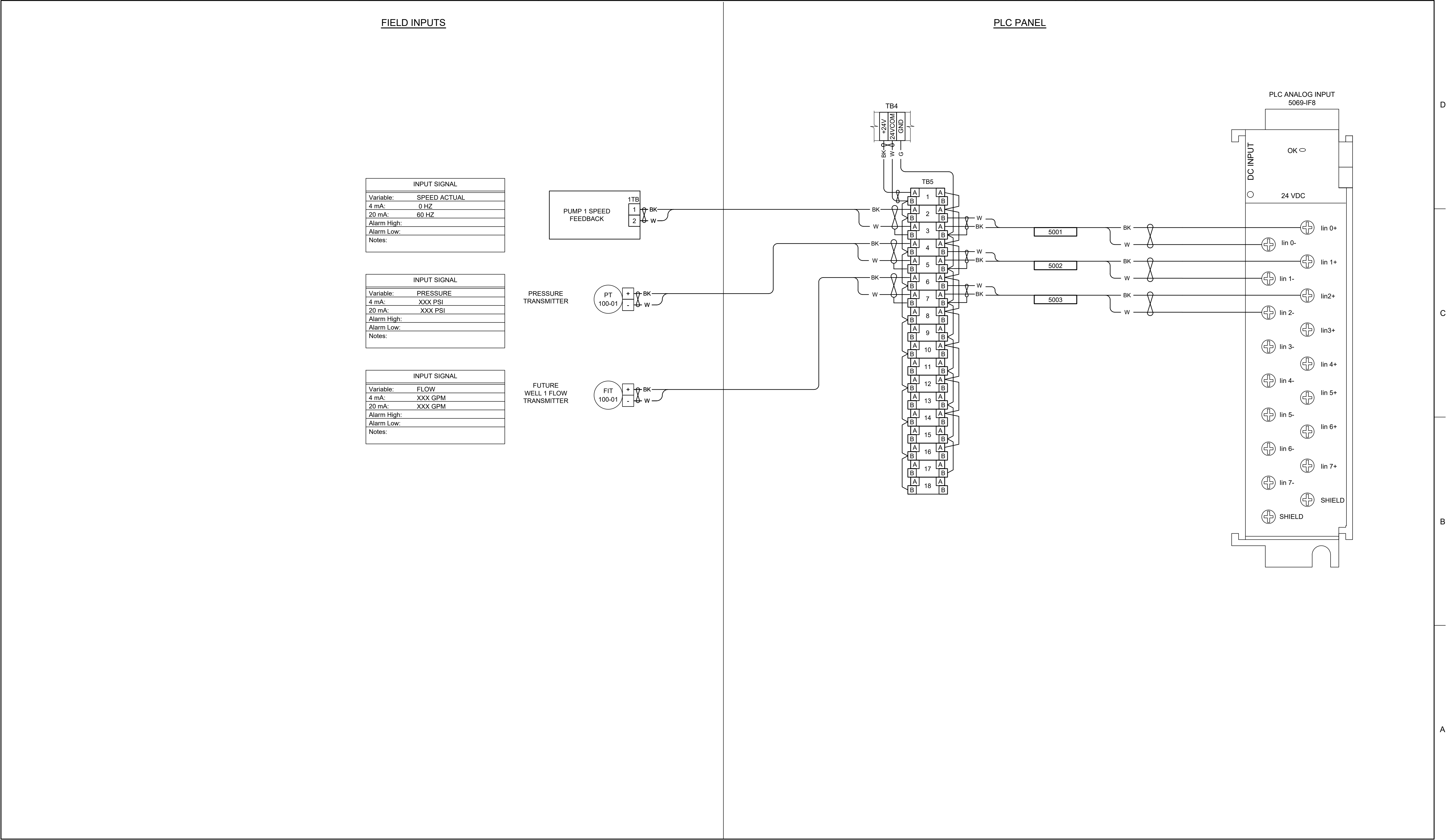
2025



INSTRUMENTATION
WELL 1
TELEMETRY CONTROL PANEL
DISCRETE OUTPUT WIRING DIAGRAM

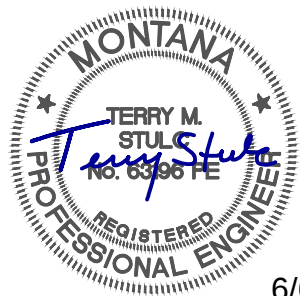
FILENAME | 100Y-04.dwg
SCALE | NONE

SHEET
100Y-04



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

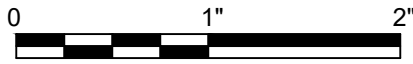
PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

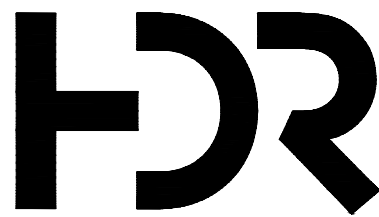
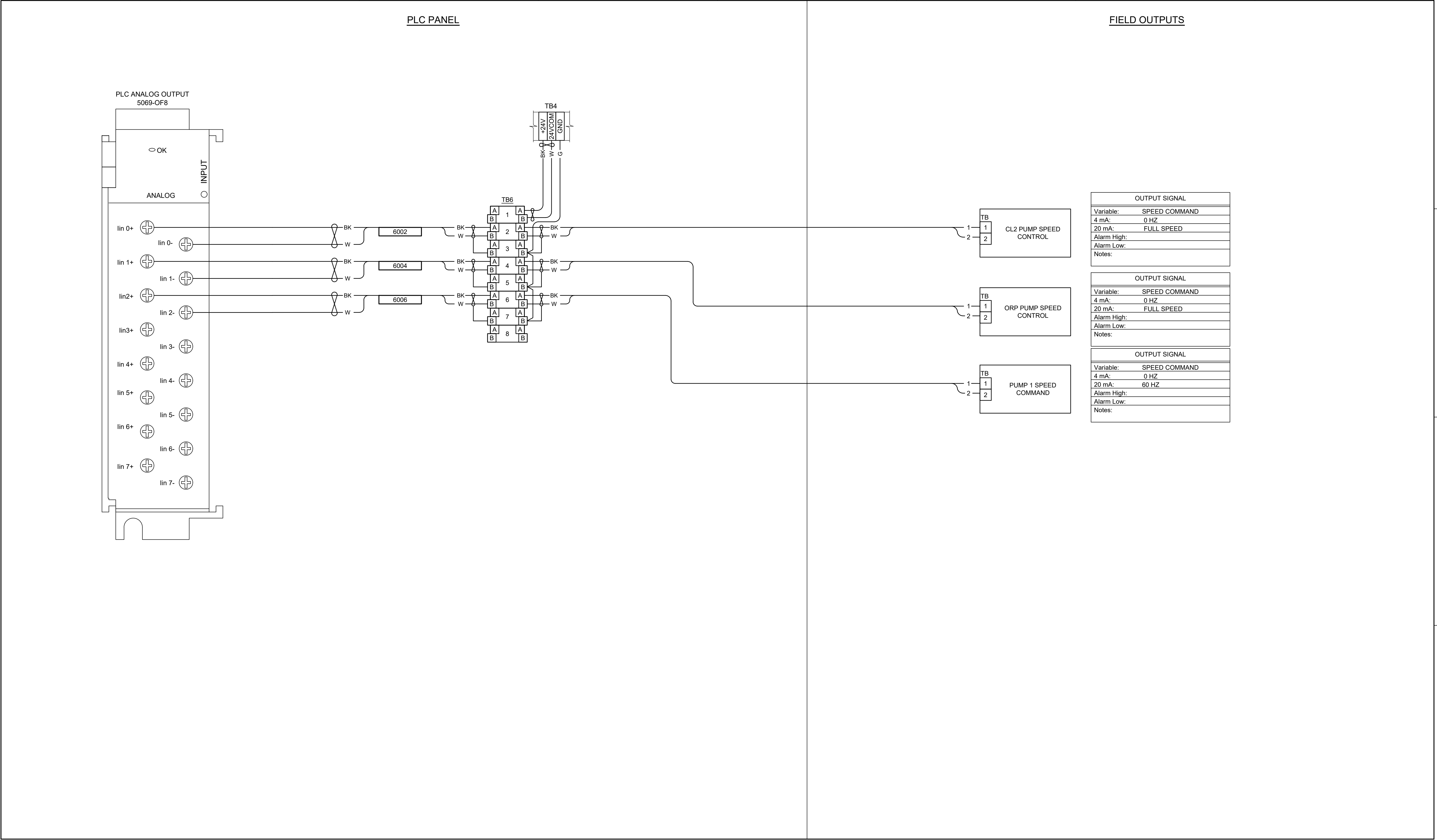
2025

INSTRUMENTATION
WELL 1
TELEMETRY CONTROL PANEL
ANALOG INPUT WIRING DIAGRAM



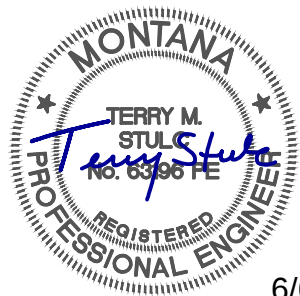
FILENAME | 100Y-05.dwg
SCALE | NONE

SHEET
100Y-05



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



6/6/25

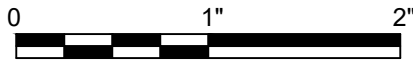


Stevensville, MT

Town of Stevensville
Water Telemetry
System Upgrade

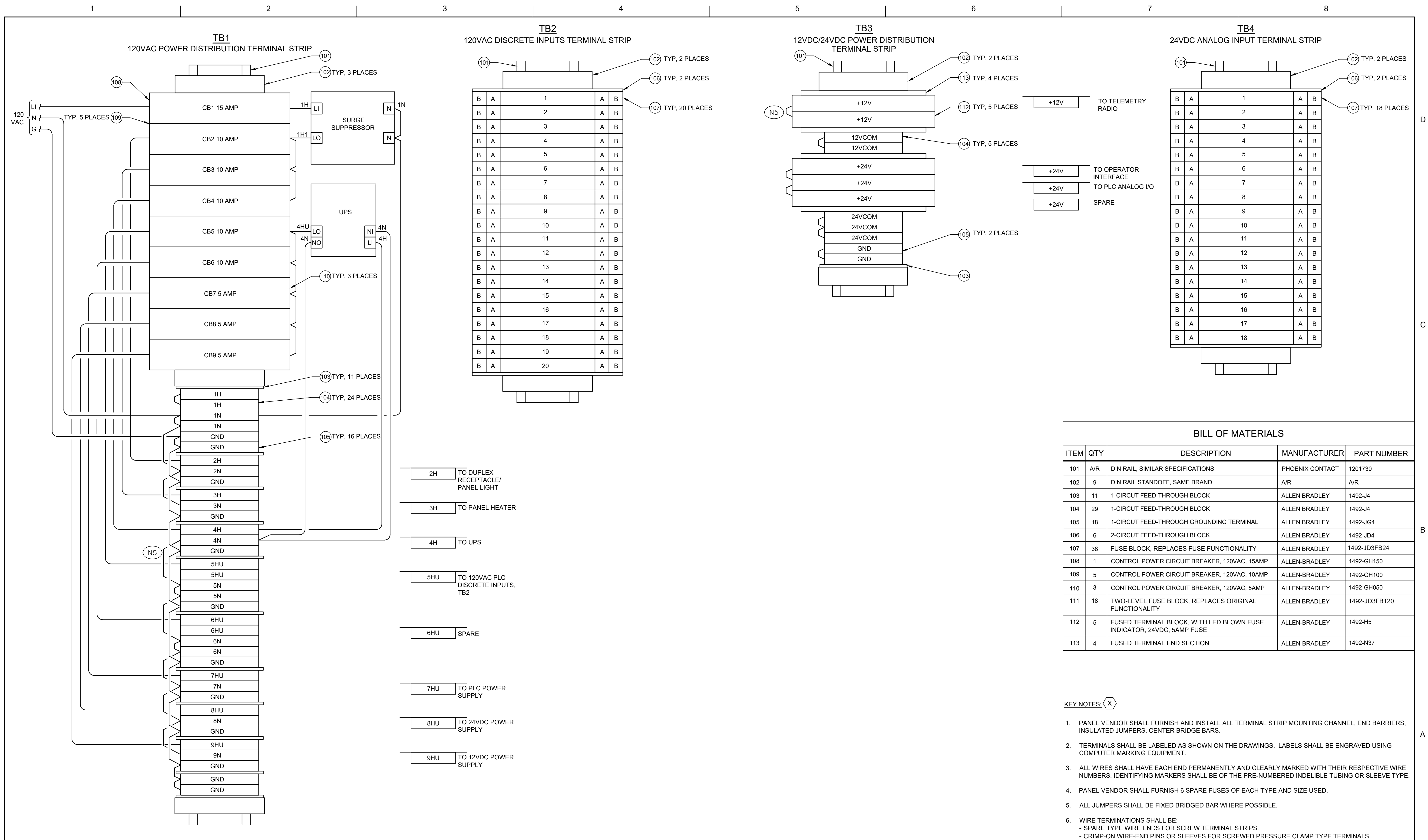
2025

INSTRUMENTATION
WELL 1
TELEMETRY CONTROL PANEL
ANALOG OUTPUT WIRING DIAGRAM



FILENAME | 100Y-06.dwg
SCALE | NONE

SHEET
100Y-06

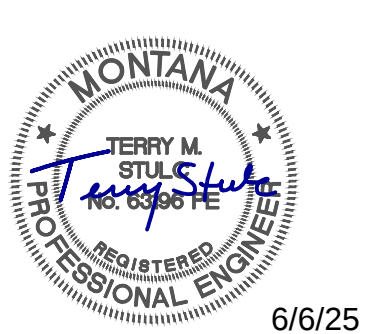


ITEM	QTY	DESCRIPTION	MANUFACTURER	PART NUMBER
101	A/R	DIN RAIL, SIMILAR SPECIFICATIONS	PHOENIX CONTACT	1201730
102	9	DIN RAIL STANDOFF, SAME BRAND	A/R	A/R
103	11	1-CIRCUIT FEED-THROUGH BLOCK	ALLEN BRADLEY	1492-J4
104	29	1-CIRCUIT FEED-THROUGH BLOCK	ALLEN BRADLEY	1492-J4
105	18	1-CIRCUIT FEED-THROUGH GROUNDING TERMINAL	ALLEN BRADLEY	1492-JG4
106	6	2-CIRCUIT FEED-THROUGH BLOCK	ALLEN BRADLEY	1492-JD4
107	38	FUSE BLOCK, REPLACES FUSE FUNCTIONALITY	ALLEN BRADLEY	1492-JD3FB24
108	1	CONTROL POWER CIRCUIT BREAKER, 120VAC, 15AMP	ALLEN-BRADLEY	1492-GH150
109	5	CONTROL POWER CIRCUIT BREAKER, 120VAC, 10AMP	ALLEN-BRADLEY	1492-GH100
110	3	CONTROL POWER CIRCUIT BREAKER, 120VAC, 5AMP	ALLEN-BRADLEY	1492-GH050
111	18	TWO-LEVEL FUSE BLOCK, REPLACES ORIGINAL FUNCTIONALITY	ALLEN BRADLEY	1492-JD3FB120
112	5	FUSED TERMINAL BLOCK, WITH LED BLOWN FUSE INDICATOR, 24VDC, 5AMP FUSE	ALLEN-BRADLEY	1492-H5
113	4	FUSED TERMINAL END SECTION	ALLEN-BRADLEY	1492-N37

KEY NOTES: (X)

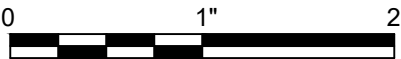
1. PANEL VENDOR SHALL FURNISH AND INSTALL ALL TERMINAL STRIP MOUNTING CHANNEL, END BARRIERS, INSULATED JUMPERS, CENTER BRIDGE BARS.
2. TERMINALS SHALL BE LABELED AS SHOWN ON THE DRAWINGS. LABELS SHALL BE ENGRAVED USING COMPUTER MARKING EQUIPMENT.
3. ALL WIRES SHALL HAVE EACH END PERMANENTLY AND CLEARLY MARKED WITH THEIR RESPECTIVE WIRE NUMBERS. IDENTIFYING MARKERS SHALL BE OF THE PRE-NUMBERED INDELIBLE TUBING OR SLEEVE TYPE.
4. PANEL VENDOR SHALL FURNISH 6 SPARE FUSES OF EACH TYPE AND SIZE USED.
5. ALL JUMPERS SHALL BE FIXED BRIDGED BAR WHERE POSSIBLE.
6. WIRE TERMINATIONS SHALL BE:
 - SPARE TYPE WIRE ENDS FOR SCREW TERMINAL STRIPS.
 - CRIMP-ON WIRE-END PINS OR SLEEVES FOR SCREWED PRESSURE CLAMP TYPE TERMINALS.

			DESIGNER 1	M. SMITH
			DRAWN BY	K. WULF
0	6/6/2025	ISSUED FOR BID		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10235808



Town of Stevensville Water Telemetry System Upgrade

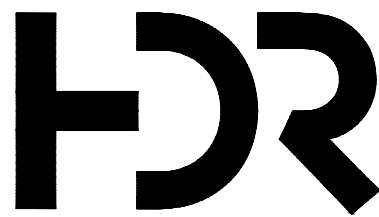
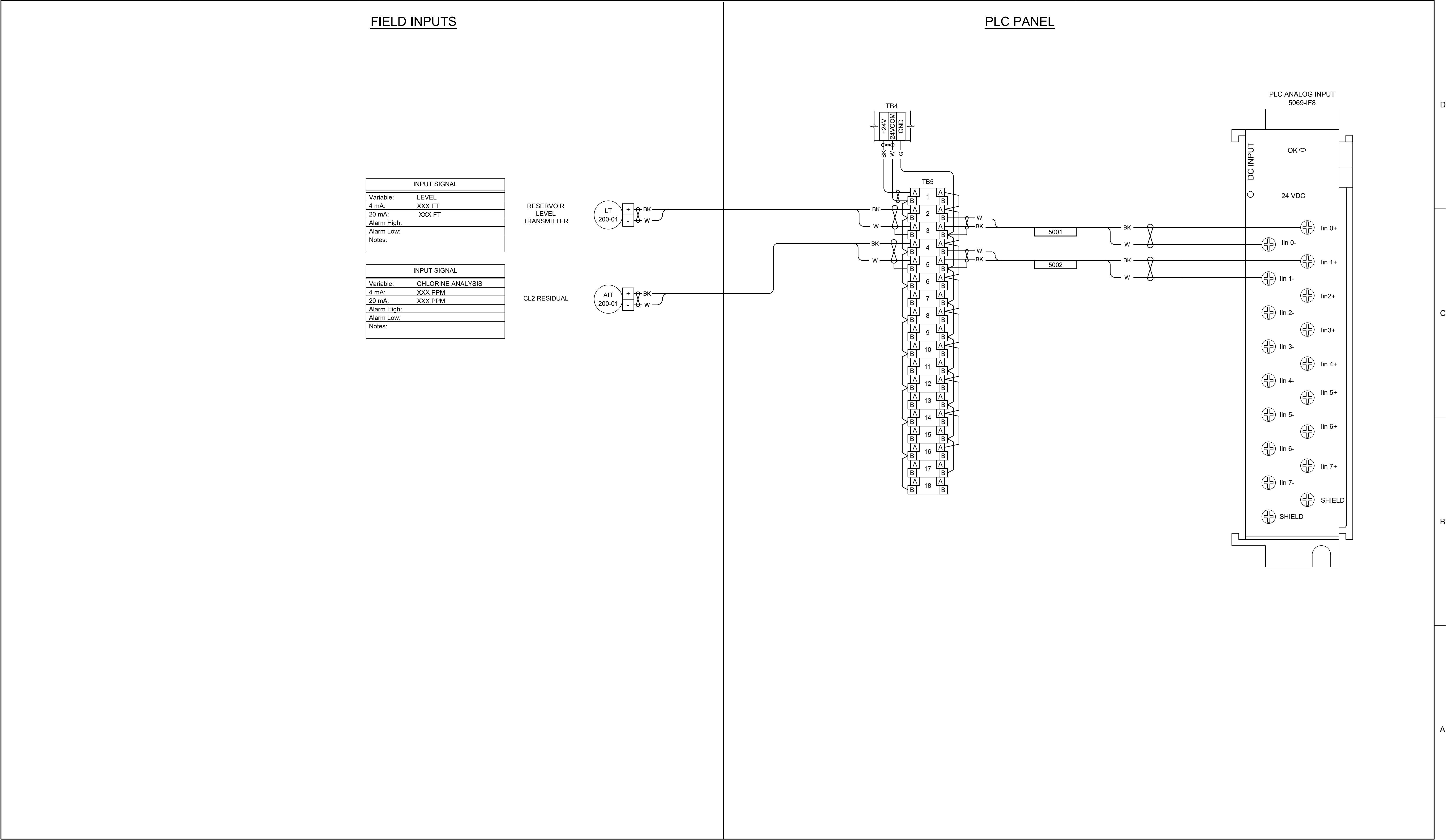
INSTRUMENTATION MBFC RESERVOIR TELEMETRY CONTROL PANEL TERMINAL BLOCK WIRING DIAGRAM



FILENAME	200Y-02.dwg
SCALE	NONE

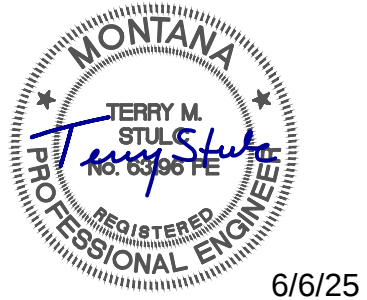
SHEET

200Y-02



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

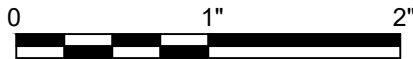
PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

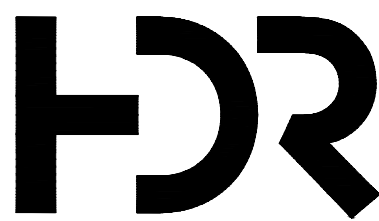
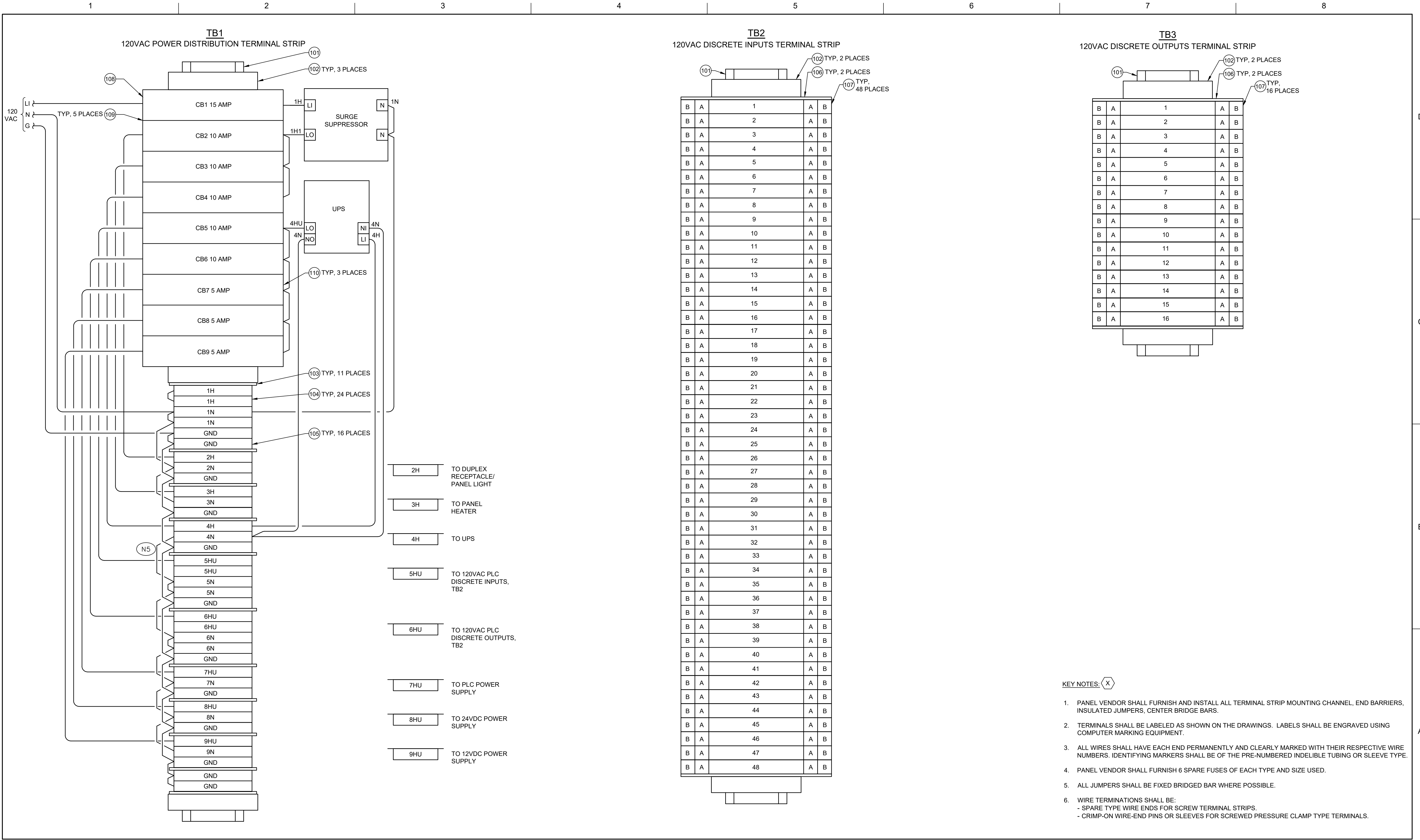
2025

INSTRUMENTATION
MBFC RESERVOIR
TELEMETRY CONTROL PANEL
ANALOG INPUT WIRING DIAGRAM



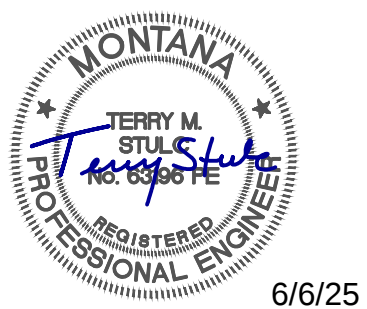
FILENAME	200Y-04.dwg
SCALE	NONE

SHEET
200Y-04



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

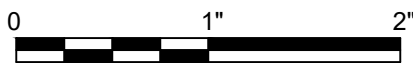
PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

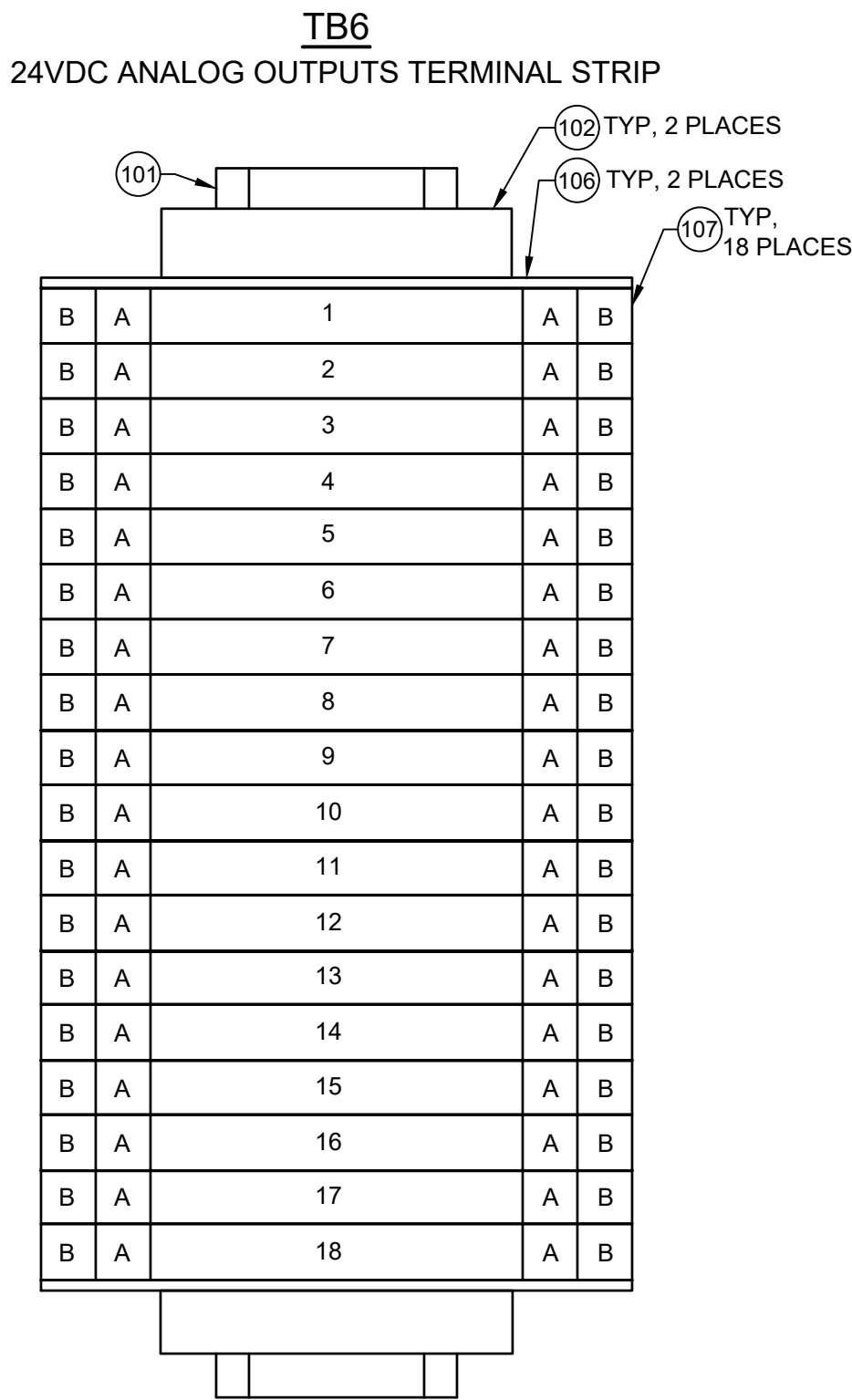
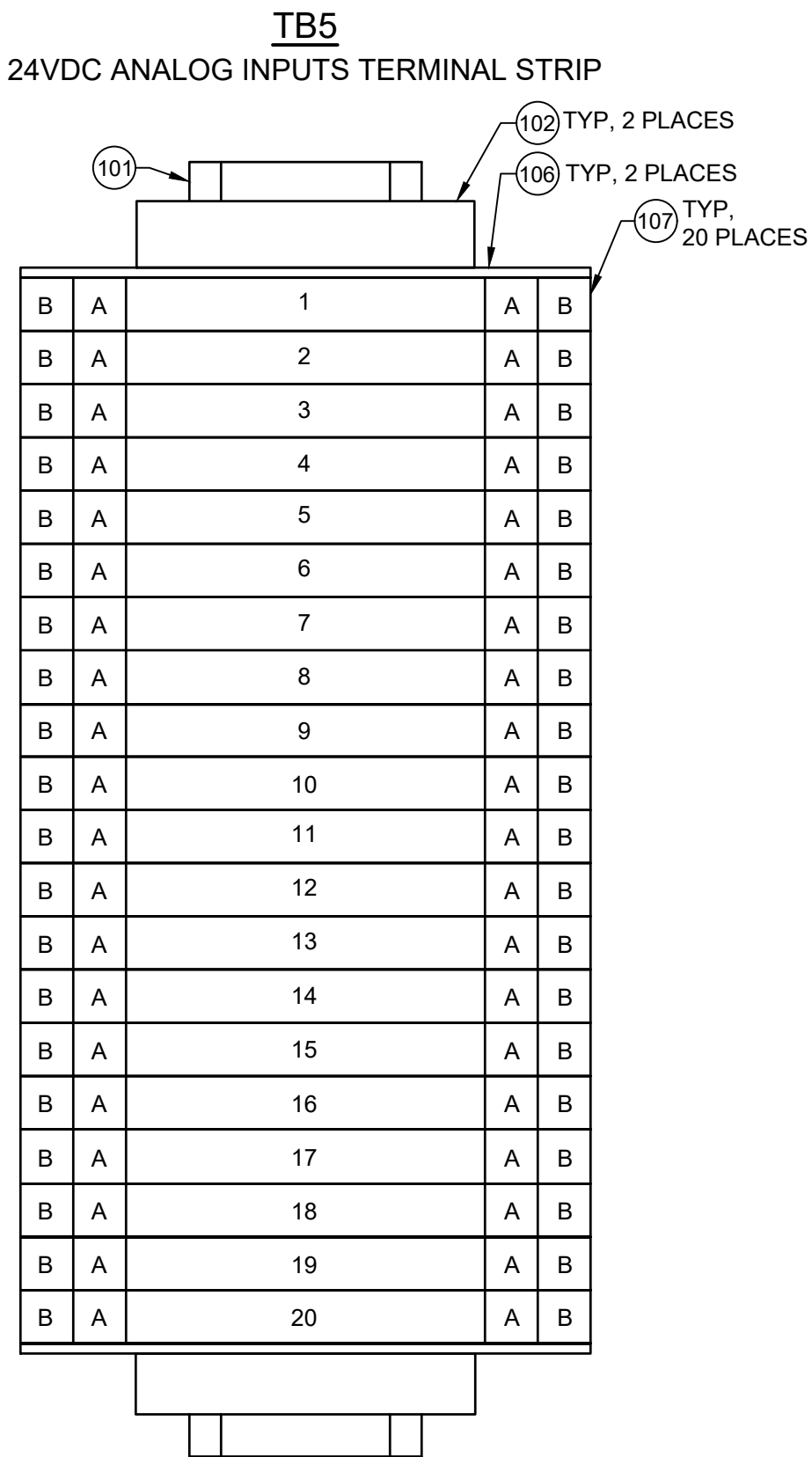
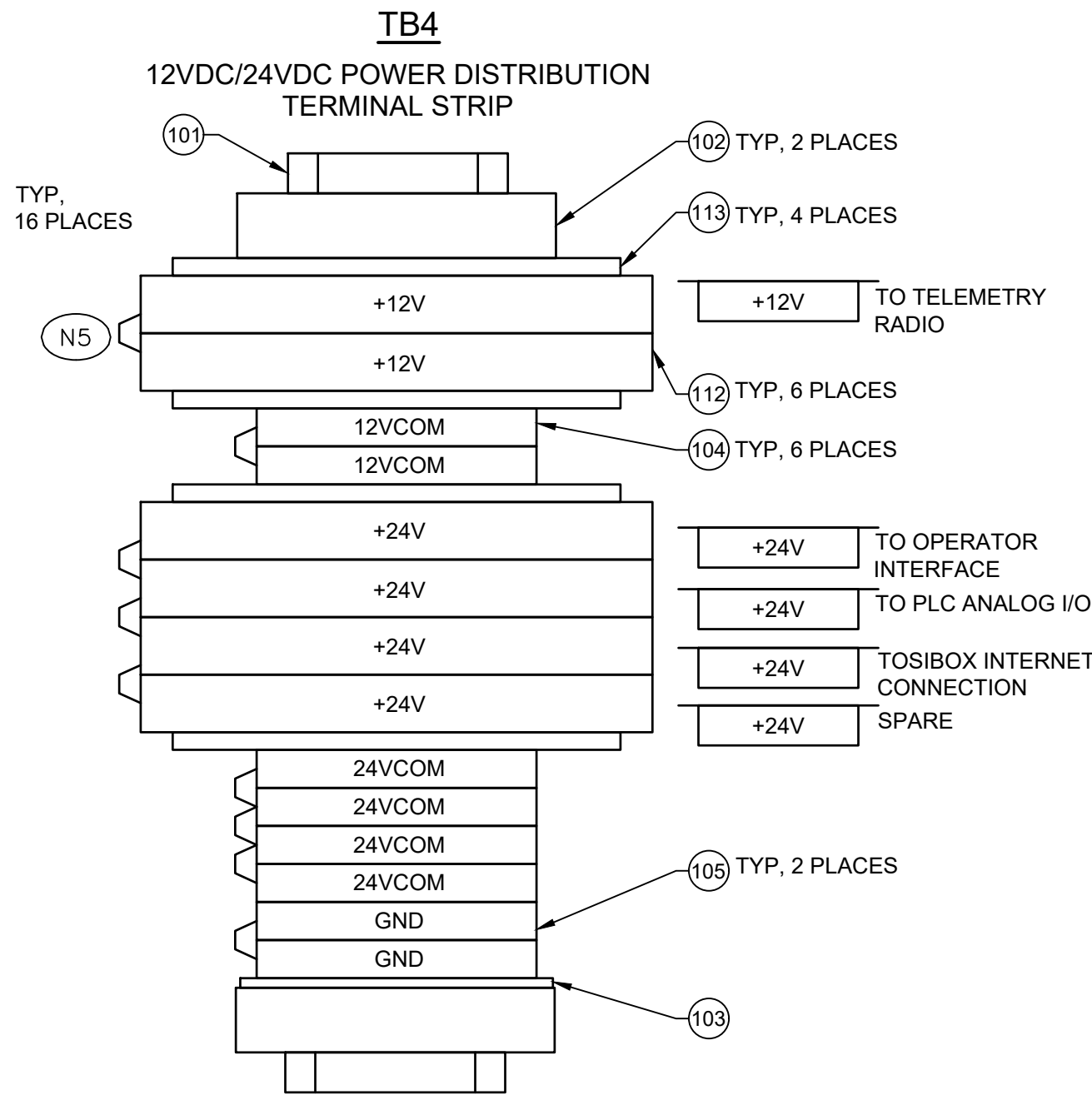
2025

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
TERMINAL BLOCK WIRING DIAGRAM 1



FILENAME	400Y-02.dwg
SCALE	NONE

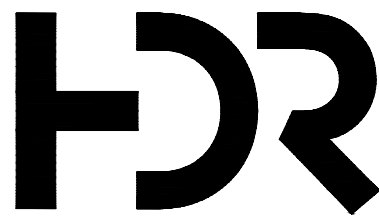
SHEET
400Y-02



BILL OF MATERIALS				
ITEM	QTY	DESCRIPTION	MANUFACTURER	PART NUMBER
101	A/R	DIN RAIL, SIMILAR SPECIFICATIONS	PHOENIX CONTACT	1201730
102	15	DIN RAIL STANDOFF, SAME BRAND	A/R	A/R
103	11	1-CIRCUIT FEED-THROUGH BLOCK	ALLEN BRADLEY	1492-J4
104	30	1-CIRCUIT FEED-THROUGH BLOCK	ALLEN BRADLEY	1492-J4
105	18	1-CIRCUIT FEED-THROUGH GROUNDING TERMINAL	ALLEN BRADLEY	1492-JG4
106	10	IEC 2-CIRCUIT FEED-THROUGH BLOCK	ALLEN BRADLEY	1492-JD4
107	102	FUSE BLOCK, REPLACES FUSE FUNCTIONALITY	ALLEN BRADLEY	1492-JD3FB24
108	1	CONTROL POWER CIRCUIT BREAKER, 120VAC, 15AMP	ALLEN-BRADLEY	1492-GH150
109	5	CONTROL POWER CIRCUIT BREAKER, 120VAC, 10AMP	ALLEN-BRADLEY	1492-GH100
110	3	CONTROL POWER CIRCUIT BREAKER, 120VAC, 5AMP	ALLEN-BRADLEY	1492-GH050
111	18	TWO-LEVEL FUSE BLOCK, REPLACES ORIGINAL FUNCTIONALITY	ALLEN BRADLEY	1492-JD3FB120
112	6	FUSED TERMINAL BLOCK, WITH LED BLOWN FUSE INDICATOR, 24VDC, 5AMP FUSE	ALLEN-BRADLEY	1492-H5
113	4	FUSED TERMINAL END SECTION	ALLEN-BRADLEY	1492-N37

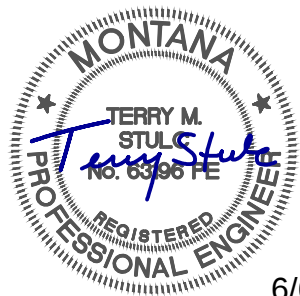
KEY NOTES: X

- PANEL VENDOR SHALL FURNISH AND INSTALL ALL TERMINAL STRIP MOUNTING CHANNEL, END BARRIERS, INSULATED JUMPERS, CENTER BRIDGE BARS.
- TERMINALS SHALL BE LABELED AS SHOWN ON THE DRAWINGS. LABELS SHALL BE ENGRAVED USING COMPUTER MARKING EQUIPMENT.
- ALL WIRES SHALL HAVE EACH END PERMANENTLY AND CLEARLY MARKED WITH THEIR RESPECTIVE WIRE NUMBERS. IDENTIFYING MARKERS SHALL BE OF THE PRE-NUMBERED INDELIBLE TUBING OR SLEEVE TYPE.
- PANEL VENDOR SHALL FURNISH 6 SPARE FUSES OF EACH TYPE AND SIZE USED.
- ALL JUMPERS SHALL BE FIXED BRIDGED BAR WHERE POSSIBLE.
- WIRE TERMINATIONS SHALL BE:
 - SPARE TYPE WIRE ENDS FOR SCREW TERMINAL STRIPS.
 - CRIMP-ON WIRE-END PINS OR SLEEVES FOR SCREWED PRESSURE CLAMP TYPE TERMINALS.



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

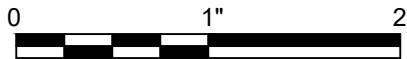
PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

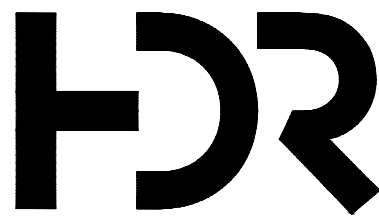
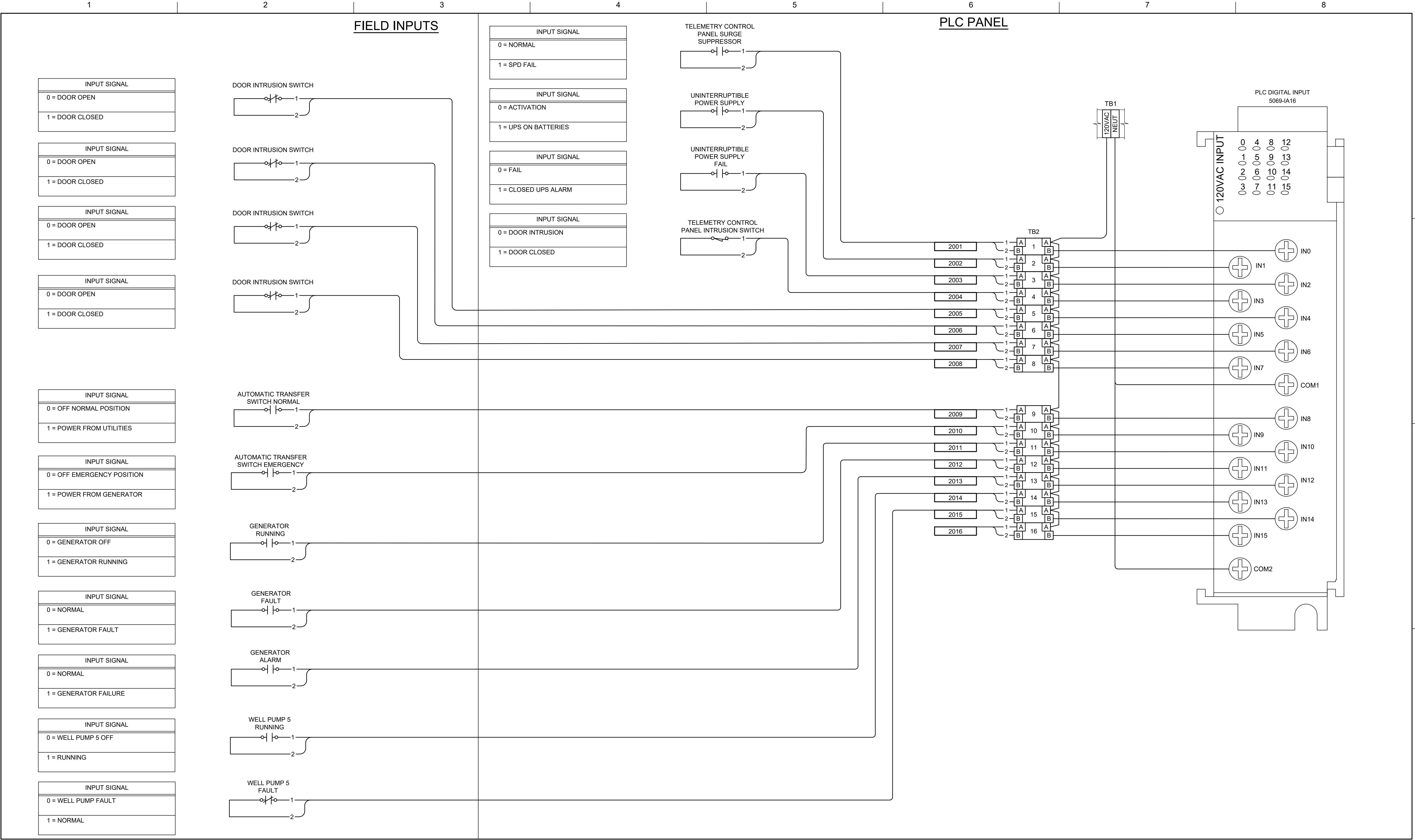
2025

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
TERMINAL BLOCK WIRING DIAGRAM 2



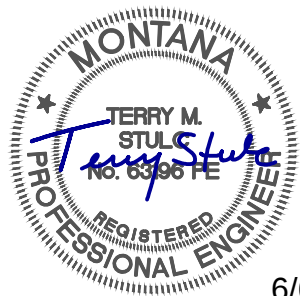
FILENAME 400Y-03.dwg
SCALE NONE

SHEET
400Y-03



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



6/6/25

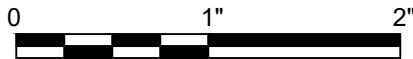


Stevensville, MT

Town of Stevensville
Water Telemetry
System Upgrade

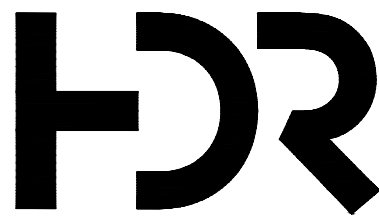
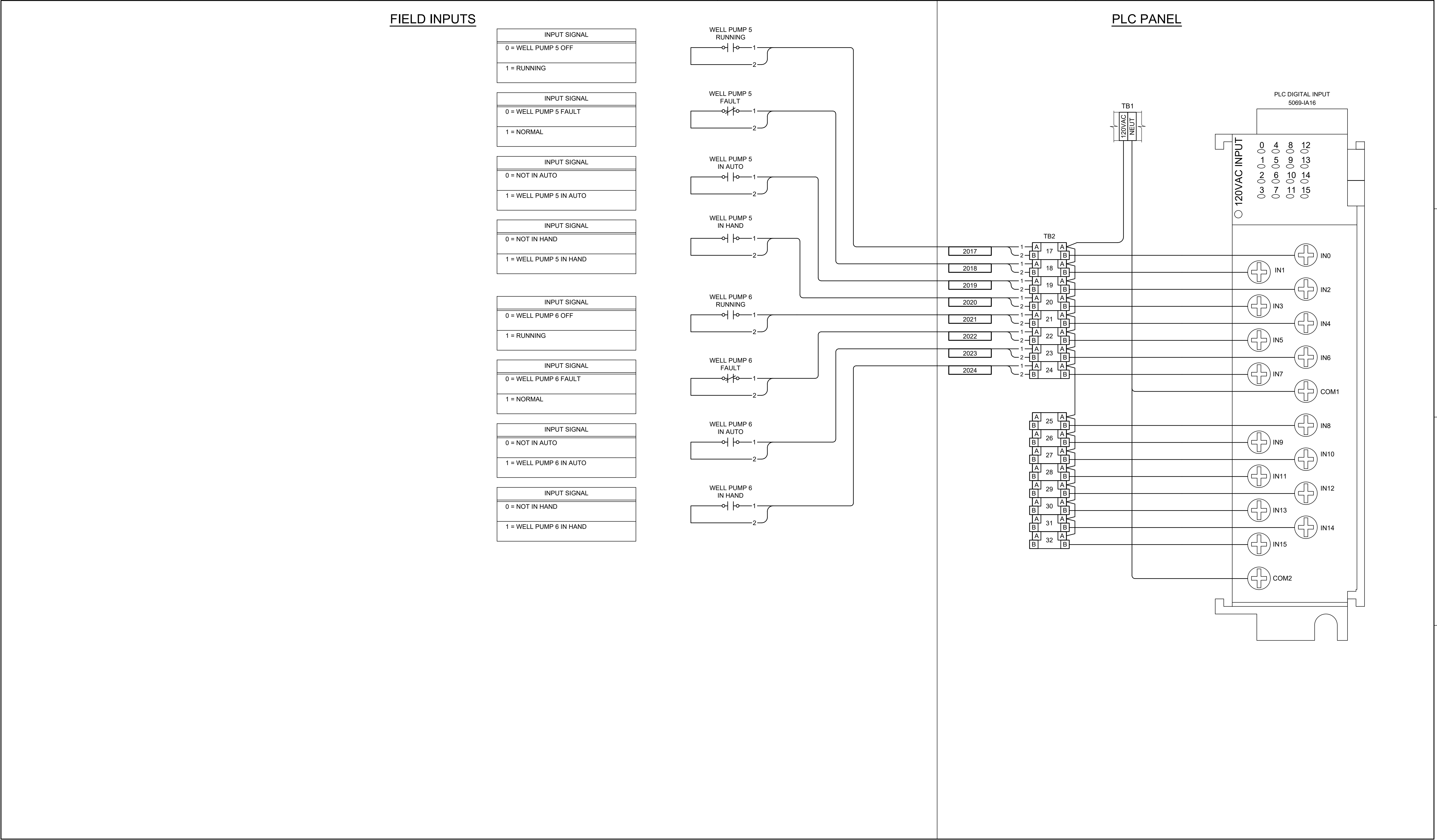
2025

INSTRUMENTATION
WELL FIELDS
TELEMERY CONTROL PANEL
DISCRETE INPUT WIRING DIAGRAM 1



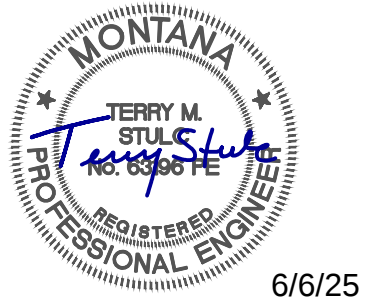
FILENAME 400Y-04.dwg
SCALE NONE

SHEET
400Y-04



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

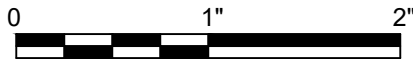
PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

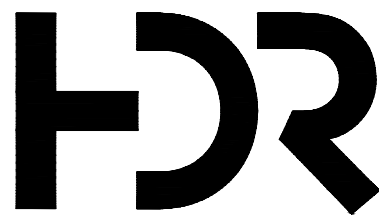
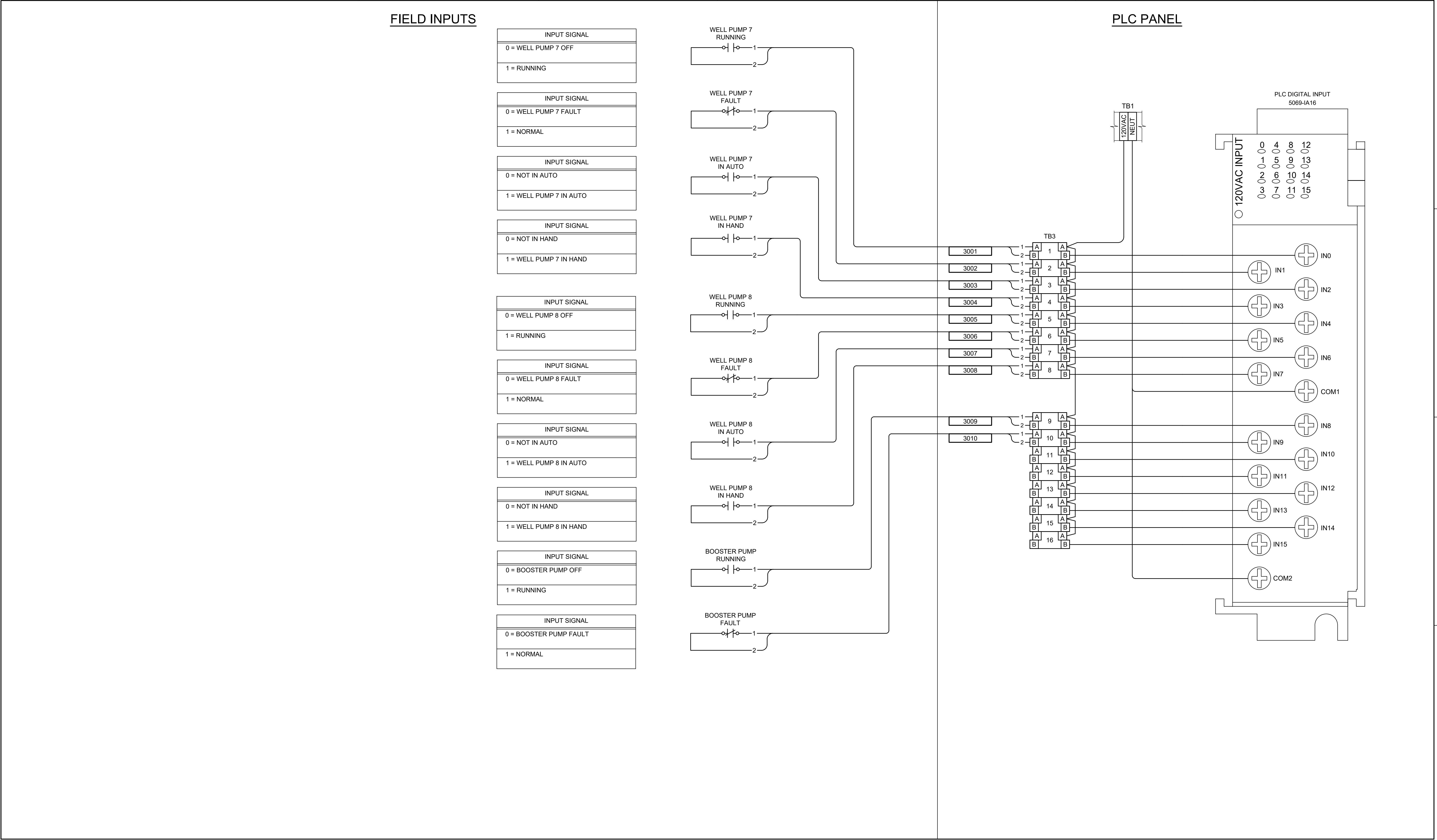
2025

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
DISCRETE INPUT WIRING DIAGRAM 2



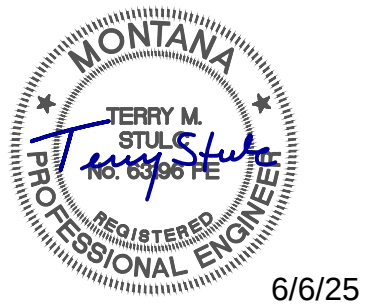
FILENAME | 400Y-05.dwg
SCALE | NONE

SHEET
400Y-05



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

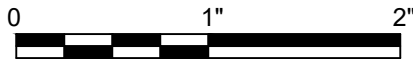
PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

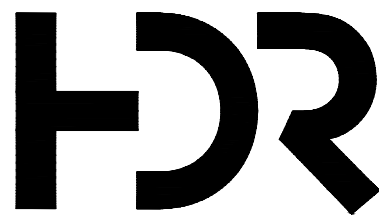
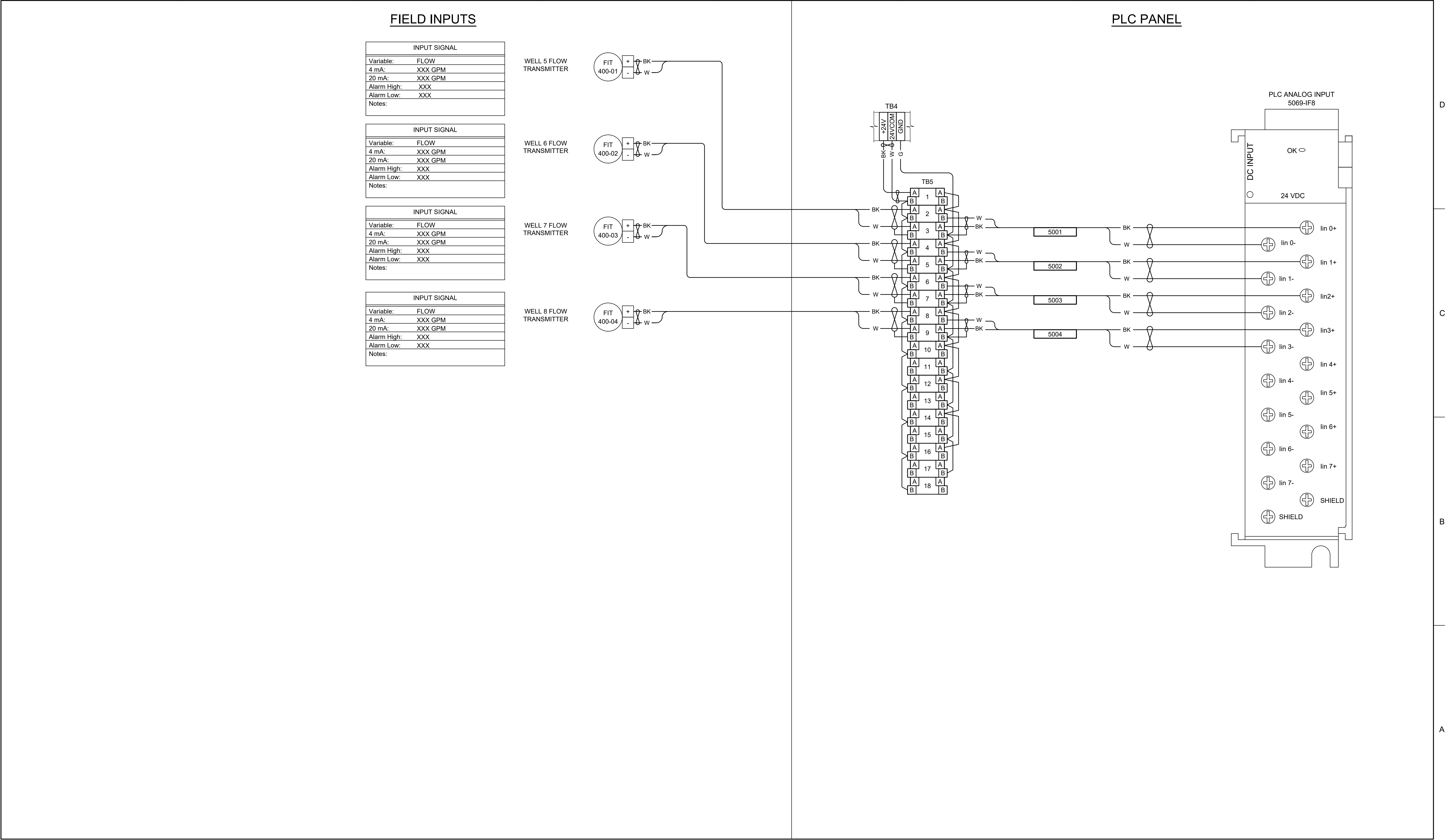
2025

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
DISCRETE INPUT WIRING DIAGRAM 3



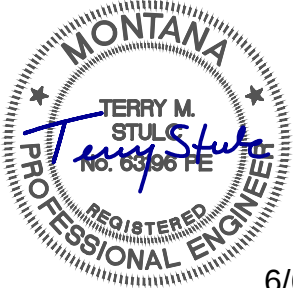
FILENAME 400Y-06.dwg
SCALE NONE

SHEET
400Y-06



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

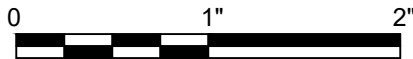
PROJECT MANAGER	TERRY STULC
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

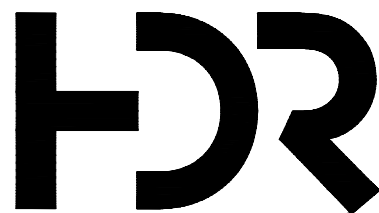
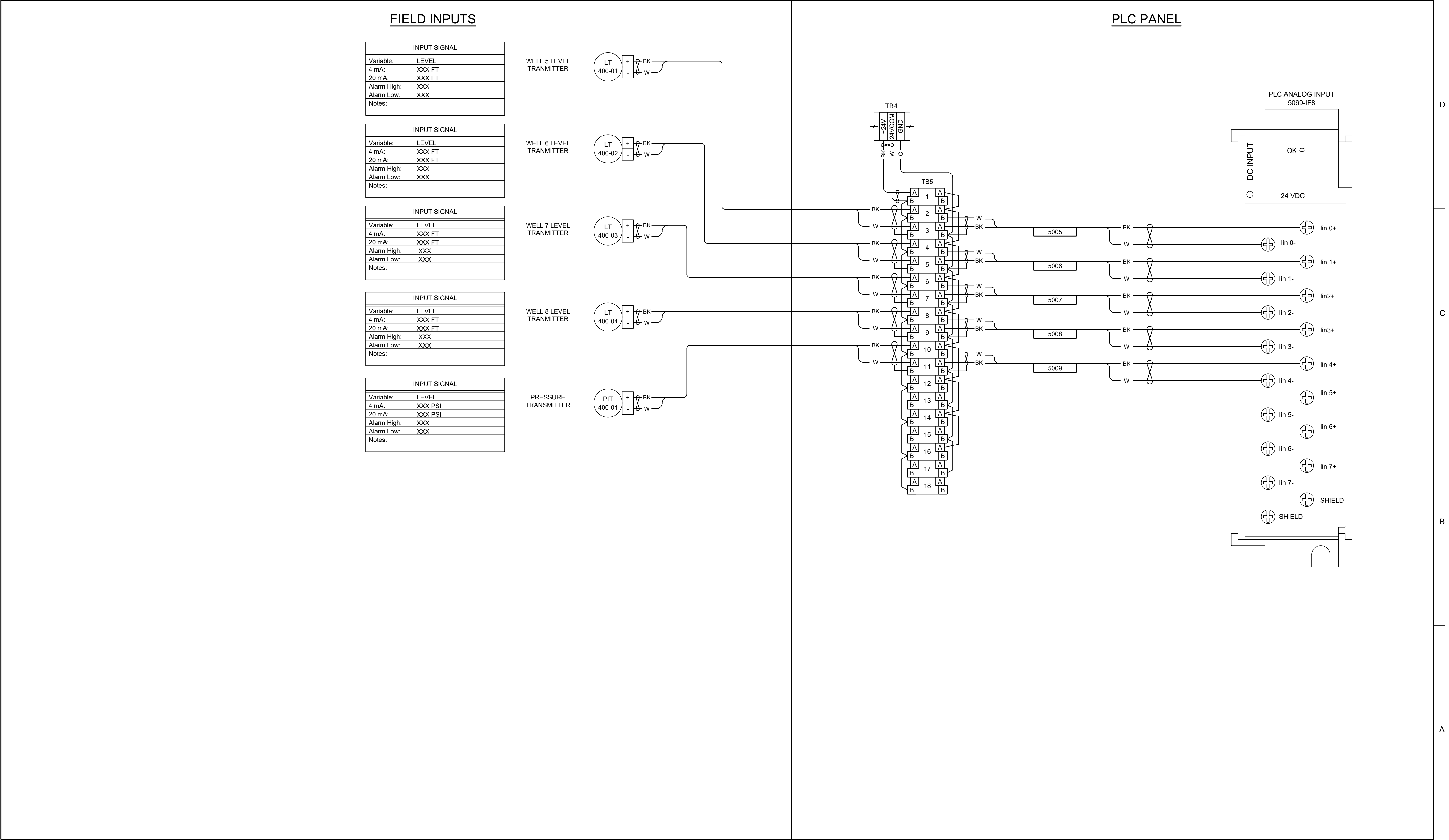
2025

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
ANALOG INPUT WIRING DIAGRAM 1



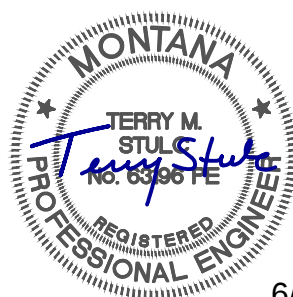
FILENAME	400Y-08.dwg
SCALE	NONE

SHEET
400Y-08



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



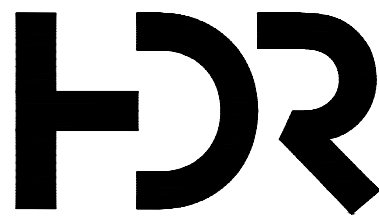
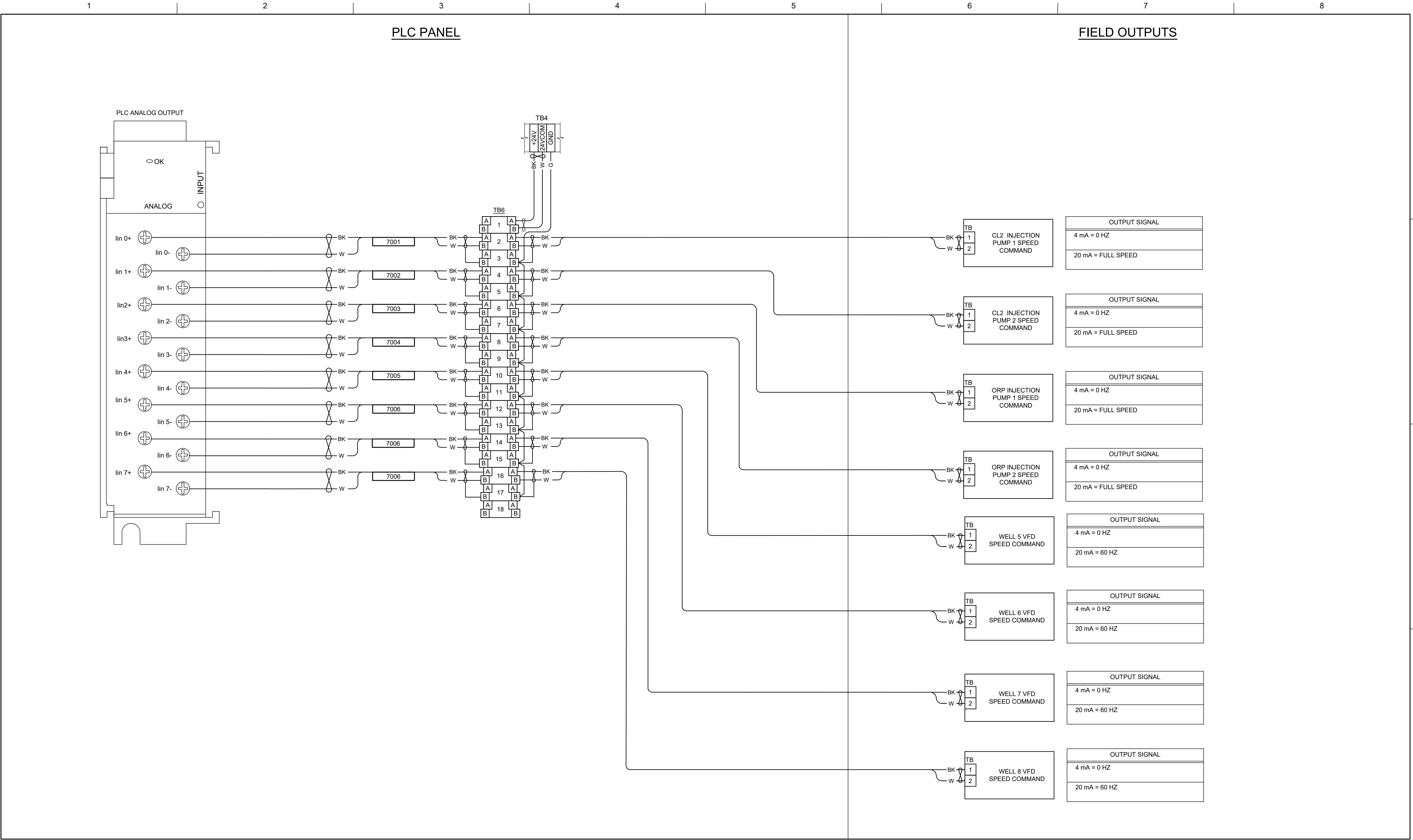
Town of Stevensville
Water Telemetry
System Upgrade

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
ANALOG INPUT WIRING DIAGRAM 2



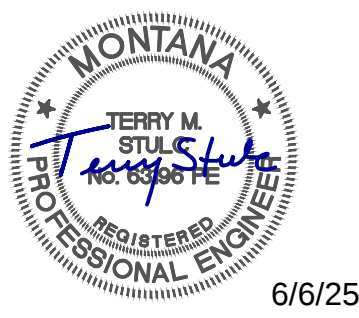
FILENAME | 400Y-09.dwg
SCALE | NONE

SHEET
400Y-09



0	6/6/2025	ISSUED FOR BID
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER TERRY STULC	
DESIGNER 1	M. SMITH
DRAWN BY	K. WULF
PROJECT NUMBER	10235808



Town of Stevensville
Water Telemetry
System Upgrade

INSTRUMENTATION
WELL FIELDS
TELEMETRY CONTROL PANEL
ANALOG OUTPUT WIRING DIAGRAM

01"2"

2025

FILENAME

400Y-10.dwg

SCALE

NONE

SHEET

400Y-10