

			CABL	EΑ	ND COND	UIT	SCHEDULE					
		LOAD			CONDUCTORS						COND	
			POWER		CONTROL		INSTRUMENT & COMM	s.			CONDUIT	
CABLE NUMBER	SERVICE	VOLTS	NUMBER AND SIZE	TYPE	NUMBER AND SIZE	TYPE	NUMBER OF CABLES & NO. PAIRS / CONDUCTORS	TYPE	FROM (SOURCE)	то	SIZE	ТУРЕ
SHEET 1						•						
P-1	WATF BUILDING POWER DROP	13.2KVAC	(3) #2 AWG + #2 GND	1					WATF-SV	XFMR WATF	4	PVC
P-2	WATF INJECTION SKID POWER	480VAC	(3) #8 AWG + #8 GND	Α					MCC-1	WATF-INJ	1	PVC/RGS
P-3	PUMP GETR-WU-01A POWER [VFD]	480VAC	(3) #10 AWG + #10 GND	Α					MCC-1	VFD GETR-WU-01A	1	PVC
P-3A	PUMP GETR-WU-01A POWER [MOTOR]	480VAC	(3) #10 AWG + #10 GND	Α		1	The state of the s		VFD GETR-WU-01A	GETR-WU-01A	1	PVC
P-4	PUMP GE-WAA-05 POWER	480VAC	(3) #8 AWG + #8 GND	Α					MCC-1	GE-WAA-05	1	PVC
P-5	PUMP GE-WAA-02 POWER	480VAC	(3) #10 AWG + #10 GND	Α					MCC-1	GE-WAA-02	1	PVC
P-6	PUMP GE-WAA-03 POWER	480VAC	(3) #8 AWG + #8 GND	A					MCC-1	GE-WAA-03	1	PVC
P-7	PUMP GE-WAA-04 POWER	480VAC	(3) #8 AWG + #8 GND	Α					MCC-1	GE-WAA-04	1	PVC
P-8	PUMP GETR-WU-01A FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					MCC-1	GETR-WU-01A_FT	1	PVC/RGS
P-9	PUMP GE-WAA-05 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α				T	MCC-1	GE-WAA-05_FT	1	PVC/RGS
P-10	PUMP GE-WAA-02 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					MCC-1	GE-WAA-02_FT	1	PVC/RGS
P-11	PUMP GE-WAA-03 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					MCC-1	GE-WAA-03_FT	1	PVC/RGS
P-12	PUMP GE-WAA-04 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					MCC-1	GE-WAA-04_FT	1	PVC/RGS
P-13	BA1 INJECTION SKID POWER DROP	13.2KVAC	(3) #2 AWG + #2 GND	1		I			BA1-SV	(3) 1Ø XMFR BA1	4	PVC
P-14	PUMP GETR-BA1-01A POWER (VFD)	480VAC	(3) #10 AWG + #10 GND	Α					MCC-2	VFD GETR-BA1-01A	1	PVC
P-14A	PUMP GETR-BA1-01A POWER [MOTOR]	480VAC	(3) #10 AWG + #10 GND	Α					VFD GETR-BA1-01A	GETR-BA1-01A	1	PVC
P-15	PUMP GETR-BA1-01B POWER [VFD]	480VAC	(3) #10 AWG + #10 GND	Α					MCC-2	VFD GETR-BA1-01B	1	PVC
P-15A	PUMP GETR-BA1-01B POWER [MOTOR]	480VAC	(3) #10 AWG + #10 GND	Α	3.300				VFD GETR-BA1-01B	GETR-BA1-01B	1	PVC
P-16	PUMP GETR-BA1-02A POWER [VFD]	480VAC	(3) #10 AWG + #10 GND	Α					MCC-2	VFD GETR-BA1-02A	1	PVC
P-16A	PUMP GETR-BA1-02A POWER [MOTOR]	480VAC	(3) #10 AWG + #10 GND	Α					VFD GETR-BA1-02A	GETR-BA1-02A	11	PVC
P-17	PUMP GE-BA1-02 POWER	480VAC	(3) #10 AWG + #10 GND	Α					MCC-2	GE-BA1-02	1	PVC
P-18	PUMP GE-BA1-03 POWER	480VAC	(3) #10 AWG + #10 GND	Α					MCC-2	GE-BA1-03	1	PVC
P-19	PUMP GE-BA1-04 POWER	480VAC	(3) #10 AWG + #10 GND	Α					MCC-2	GE-BA1-04	1	PVC
P-20	PUMP GETR-BA1-01A FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					BA1 PP-2	GETR-BA1-01A_FT	1	PVC
P-21	PUMP GETR-BA1-01B FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					BA1 PP-2	GETR-BA1-01B_FT	1	PVC
P-22	PUMP GETR-BA1-02A FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					BA1 PP-2	GETR-BA1-02A_FT	1	PVC
P-23	PUMP GE-BA1-02 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					BA1 PP-2	GE-BA1-02_FT	1	PVC
P-24	PUMP GE-BA1-03 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	Α					BA1 PP-2	GE-BA1-03_FT	1	PVC
P-25	PUMP GE-BA1-04 FLOW XMTR POWER	240VAC	(2) #10 AWG + #10 GND	A					BA1 PP-2	GE-BA1-04_FT	1	PVC

NOTES	
NOTE 1	SEE ONE-LINE DRAWINGS OR PANEL SCHEDULES FOR POWER CIRCUIT SIZES.
ABLE TYPE	DESCRIPTION
Α	120V/208V/240V/480V SYSTEMS & BELOW: SINGLE CONDUCTOR POWER AND CONTROL CABLE SHALL BE 600V COPPER STRANDED, UL LISTED, TYPE XHHW-2 (PVC-INSULATION)
В	120V/208V/240V/480V SYSTEMS & BELOW: MULTI-CONDUCTOR POWER AND CONTROL CABLE SHALL BE 600V COPPER STRANDED, UL LISTED, TYPE TC (PVC-NYLON INSULATION / PVC JACKET)
С	OKONITE TYPE SP-OS, TYPE ITC/PLTC INSTRUMENTATION CABLE (TRIAD - INDIVIDUAL & OVERALL SHIELD 300V - 105 °C RATING) OR APPROVED EQUAL
D	OKONITE TYPE P-OS, TYPE ITC/PLTC INSTRUMENTATION CABLE (PAIRS - INDIVIDUAL & OVERALL SHIELD 300V - 105 °C RATING) OR APPROVED EQUAL
E	INDOOR/OUTDOOR 62.5 MULTIMODE FIBER OPTIC CABLE, UL LISTED, FLAME RETARDANT, WATER-RESISTANT, UV-RESISTANT, FUNGUS-RESISTANT, TIGHT BUFFERED CONSTRUCTION (PVC JACKET)
F	OKONITE, OKOGUARD-OKOSEAL, MV-105, 5kV 133%, SINGLE CONDUCTOR
G	OKONITE C-L-X MV-105, 5kV 133%, FOR CABLE TRAY USE, MULTICONDUCTOR
н	BELDEN 7953A (CAT 6 - INDUSTRIAL GRADE SUNGLIGHT & OIL RESISTANT - OUTDOOR RATED - PVC JACKET) OR APPROVED EQUAL
1	15kV SYSTEM: SINGLE CONDUCTOR POWER SHALL BE 15 KV COPPER STRANDED, UL LISTED, TYPE EPR (PVC JACKET)
J	COMMUNICATION/NETWORK CABLING

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24V DC

24V DC

24V DC

10 11

4 MAIN / 1 BRANCH

GE-WAA-03 - LEVEL XMTR 4 MAIN / 1 BRANCH

GE-WAA-04 - PSI XMTR 4 MAIN / 1 BRANCH

GE-WAA-04 - LEVEL XMTR 4 MAIN / 1 BRANCH

PVC

PVC

12

13

no. date by ckd

A 08/19/22 ACH SJD ISSUED FOR

PRELIMINARY DESIGN

CABLE AND CONDUIT SCHEDULE CONTROL CABLE NUMBER SERVICE NUMBER OF CABLES & VOLTS TYPE FROM (SOURCE) NUMBER AND SIZE NO. PAIRS / SIZE CONDUCTORS SHEET 2 CAT 6 ETHERNET CONNECTION FOR PLC NETWORK CONNECTION J WATF PLC ETHERNET SWITCH WELL FIELD PLC CPP-1 C-E1 CAT 6 ETHERNET CONNECTION FOR PLC NETWORK CONNECTION CAT 6 ETHERNET CONNECTION FOR PLC NETWORK CONNECTION CAT 6 WATF PLC ETHERNET SWITCH WA INJECTION SYSTEM SKID PVC/RGS WELL FIELD PLC CPP-1 CABLE TRAY C-E3 C-F1 FIBER OPTIC COMMUNICATIONS BETWEEN FACILITIES 12 STRAND) 62.5μm MM E WATF FIBER-ETHERNET CONVERTER RTU FIBER-ETHERNET CONVERTE FIBER OPTIC COMMUNICATIONS BETWEEN FACILITIES 12 STRAND) 62.5µm MM | E | WATF FIBER-ETHERNET CONVERTER | BA1 FIBER-ETHERNET CONVERTER PVC PVC WELL FIELD PLC CPP-1 GWI-WU-01A - PSI XMTR GWI-WU-01A INJECTION TRENCH - PSI XMTR 24V DC #14 TSP (4-20mA) D #14 TSP #14 TSP (4-20mA) GETR-WU-01A VFD SPEED CONTROL WELL FIELD PLC CPP-1 GETR-WU-01A VFD 4 MAIN / 1 BRANCH PVC GETR-WU-01A EXTRACTION TRENCH - FLOW XMTR
GETR-WU-01A EXTRACTION TRENCH - PSI XMTR 4 MAIN / 1 BRANCH PVC WELL FIELD PLC CPP-1 GETR-WU-01A FT GETR-WU-01A - PSI XMTR PVC #14 TSP (4-20mA) 24V DC C-6 PVC PVC GETR-WU-01A EXTRACTION TRENCH - LEVEL XMTR #14 TSP (4-20mA) WELL FIELD PLC CPP-1 GETR-WU-01A - LEVEL XMTR 4 MAIN / 1 BRANCH WELL FIELD PLC CPP-1 GE-WAA-05 FT 4 MAIN / 1 BRANCH GE-WAA-05 EXTRACTION WELL - FLOW XMTR 24V DC #14 TSP (4-20mA) GE-WAA-05 - PSI XMTR #14 TSP (4-20mA) D GE-WAA-05 EXTRACTION WELL - PSI XMTR 24V DC GE-WAA-05 - LEVEL XMTR GE-WAA-02\_FT GE-WAA-05 EXTRACTION WELL - LEVEL XMTR #14 TSP (4-20mA) WELL FIELD PLC CPP-1 4 MAIN / 1 BRANCH #14 TSP (4-20mA) WELL FIELD PLC CPP-1 4 MAIN / 1 BRANCH C-11 GE-WAA-02 EXTRACTION WELL - FLOW XMTR GE-WAA-02 - PSI XMTR GE-WAA-02 EXTRACTION WELL - PSI XMTR #14 TSP (4-20mA) WELL FIELD PLC CPP-1 4 MAIN / 1 BRANCH C-12 PVC PVC GE-WAA-02 EXTRACTION WELL - LEVEL XMTR 24V DC #14 TSP (4-20mA) WELL FIELD PLC CPP-1 GE-WAA-02 - LEVEL XMTR 4 MAIN / 1 BRANCH #14 TSP (4-20mA) D WELL FIELD PLC CPP-1 GE-WAA-03\_FT 4 MAIN / 1 BRANCH GE-WAA-03 EXTRACTION WELL - FLOW XMTR 24V DC C-14 GE-WAA-03 - PSI XMTR

#14 TSP (4-20mA)

#14 TSP (4-20mA) D

#14 TSP (4-20mA) D

#14 TSP (4-20mA)

#14 TSP (4-20mA)

WELL FIELD PLC CPP-1

	EE ONE-LINE DRAWINGS OR PANEL SCHEDULES FOR POWER CIRCUIT SIZES.
	EE ONE-LINE DRAWINGS OR FANEL SCHEDOLES FOR FOWER CIRCUIT SIZES.
CABLE TYPE DES	ESCRIPTION
A 120	20V/208V/240V/480V SYSTEMS & BELOW: SINGLE CONDUCTOR POWER AND CONTROL CABLE SHALL BE 600V COPPER STRANDED, UL LISTED, TYPE XHHW-2 (PVC-INSULATION)
B 120	20V/208V/240V/480V SYSTEMS & BELOW: MULTI-CONDUCTOR POWER AND CONTROL CABLE SHALL BE 600V COPPER STRANDED, UL LISTED, TYPE TC (PVC-NYLON INSULATION / PVC JACKET)
с ок	KONITE TYPE SP-OS, TYPE ITC/PLTC INSTRUMENTATION CABLE (TRIAD - INDIVIDUAL & OVERALL SHIELD 300V - 105 °C RATING) OR APPROVED EQUAL
D OK	KONITE TYPE P-OS, TYPE ITC/PLTC INSTRUMENTATION CABLE (PAIRS - INDIVIDUAL & OVERALL SHIELD 300V - 105 °C RATING) OR APPROVED EQUAL
E IND	IDOOR/OUTDOOR 62.5 MULTIMODE FIBER OPTIC CABLE, UL LISTED, FLAME RETARDANT, WATER-RESISTANT, UV-RESISTANT, FUNGUS-RESISTANT, TIGHT BUFFERED CONSTRUCTION (PVC JACKET)
F OK	KONITE, OKOGUARD-OKOSEAL, MV-105, 5kV 133%, SINGLE CONDUCTOR
G OK	KONITE C-L-X MV-105, 5kV 133%, FOR CABLE TRAY USE, MULTICONDUCTOR
H BEI	ELDEN 7953A (CAT 6 - INDUSTRIAL GRADE SUNGLIGHT & OIL RESISTANT - OUTDOOR RATED - PVC JACKET) OR APPROVED EQUAL
l 15k	5kV SYSTEM: SINGLE CONDUCTOR POWER SHALL BE 15 KV COPPER STRANDED, UL LISTED, TYPE EPR (PVC JACKET)
J CO	OMMUNICATION/NETWORK CABLING

PRELIMINARY - NOT FOR CONSTRUCTION **S**BURNS MSDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 OKLAHOMA FIRM LICENSEE NO. 421 SEPTEMBER 2022 A. HIMES designed checked S. DEFRANCESCO A. HIMES Cimarron Environmental Response Trust CABLE AND CONDUIT SCHEDULE -SHEET 2 project 142089 drawing Α BMCD-GWREMED-E104 sheet file E104.dwg

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GE-WAA-03 EXTRACTION WELL - PSI XMTR

GE-WAA-03 EXTRACTION WELL - LEVEL XMTR

GE-WAA-04 EXTRACTION WELL - FLOW XMTR

GE-WAA-04 EXTRACTION WELL - LEVEL XMTR

C-15

			CABL	<u> </u>			SCHEDULE					
		LOAD			CONDUCTORS	i					CONDU	IIT
			POWER		CONTROL		INSTRUMENT & COMMS	3.				··
CABLE NUMBER	SERVICE	VOLTS	NUMBER AND SIZE	TYPE	NUMBER AND SIZE	TYPE	NUMBER OF CABLES & NO. PAIRS / CONDUCTORS	TYPE	FROM (SOURCE)	то	SIZE	ТҮРЕ
SHEET 3								,				
C-E4	CAT 6 ETHERNET CONNECTION FOR PLC NETWORK CONNECTION	-					CAT 6	J	BA1 FIBER-ETHERNET CONVERTER	BA1 PLC ETHERNET SWITCH	-	CABLE TRAY
C-E5	CAT 6 ETHERNET CONNECTION FOR PLC NETWORK CONNECTION	-					CAT 6	J	BA1 INJECTION SKID PLC CPP-4	BA1 PLC ETHERNET SWITCH	-	CABLE TRAY
C-E6	CAT 6 ETHERNET CONNECTION FOR PLC NETWORK CONNECTION	- 1					CAT 6	J	BA1 INJECTION SKID PLC CPP-4	BA1 INJECTION SKID MCC-2	-	CABLE TRAY
C-20	GETR-BA1-01A VFD SPEED CONTROL	24V DC					#14 TSP	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01A VFD	4 MAIN / 1 BRANCH	PVC
C-21	GETR-BA1-01B VFD SPEED CONTROL	24V DC					#14 TSP	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01A VFD	4 MAIN / 1 BRANCH	PVC
C-22	GETR-BA1-02A VFD SPEED CONTROL	24V DC					#14 TSP	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01A VFD	4 MAIN / 1 BRANCH	PVC
C-23	GWI-BA1-01A INJECTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GWI-BA1-01A - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-24	GWI-BA1-02A INJECTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GWI-BA1-02A - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-25	GWI-BA1-03A INJECTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GWI-BA1-03A - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-26	GWI-BA1-04A INJECTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GWI-BA1-04A - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-27	GETR-BA1-01A EXTRACTION TRENCH - FLOW XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01A_FT	4 MAIN / 1 BRANCH	PVC
C-28	GETR-BA1-01A EXTRACTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01A - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-29	GETR-BA1-01A EXTRACTION TRENCH - LEVEL XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01A - LEVEL XMTR	4 MAIN / 1 BRANCH	PVC
C-30	GETR-BA1-01B EXTRACTION TRENCH - FLOW XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01B_FT	4 MAIN / 1 BRANCH	PVC
C-31	GETR-BA1-01B EXTRACTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01B - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-32	GETR-BA1-01B EXTRACTION TRENCH - LEVEL XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-01B - LEVEL XMTR	4 MAIN / 1 BRANCH	PVC
C-33	GETR-BA1-02A EXTRACTION TRENCH - FLOW XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-02A_FT	4 MAIN / 1 BRANCH	PVC
C-34	GETR-BA1-02A EXTRACTION TRENCH - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-02A - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-35	GETR-BA1-02A EXTRACTION TRENCH - LEVEL XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GETR-BA1-02A - LEVEL XMTR	4 MAIN / 1 BRANCH	PVC
C-36	GE-BA1-02 EXTRACTION WELL - FLOW XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-02_FT	4 MAIN / 1 BRANCH	PVC
C-37	GE-BA1-02 EXTRACTION WELL - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-02 - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-38	GE-BA1-02 EXTRACTION WELL - LEVEL XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-02 - LEVEL XMTR	4 MAIN / 1 BRANCH	PVC
C-39	GE-BA1-03 EXTRACTION WELL - FLOW XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-03_FT	4 MAIN / 1 BRANCH	PVC
C-40	GE-BA1-03 EXTRACTION WELL - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-03 - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-41	GE-BA1-03 EXTRACTION WELL - LEVEL XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-03 - LEVEL XMTR	4 MAIN / 1 BRANCH	PVC
C-42	GE-BA1-04 EXTRACTION WELL - FLOW XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-04_FT	4 MAIN / 1 BRANCH	PVC
C-43	GE-BA1-04 EXTRACTION WELL - PSI XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-04 - PSI XMTR	4 MAIN / 1 BRANCH	PVC
C-44	GE-BA1-04 EXTRACTION WELL - LEVEL XMTR	24V DC					#14 TSP (4-20mA)	D	BA1 INJECTION SKID PLC CPP-4	GE-BA1-04 - LEVEL XMTR	4 MAIN / 1 BRANCH	PVC

NOTES	
NOTE 1	SEE ONE-LINE DRAWINGS OR PANEL SCHEDULES FOR POWER CIRCUIT SIZES.
CABLE TYPE	DESCRIPTION
Α	120V/208V/240V/480V SYSTEMS & BELOW: SINGLE CONDUCTOR POWER AND CONTROL CABLE SHALL BE 600V COPPER STRANDED, UL LISTED, TYPE XHHW-2 (PVC-INSULATION)
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С	OKONITE TYPE SP-OS, TYPE ITC/PLTC INSTRUMENTATION CABLE (TRIAD - INDIVIDUAL & OVERALL SHIELD 300V - 105 °C RATING) OR APPROVED EQUAL
D	OKONITE TYPE P-OS, TYPE ITC/PLTC INSTRUMENTATION CABLE (PAIRS - INDIVIDUAL & OVERALL SHIELD 300V - 105 °C RATING) OR APPROVED EQUAL
E	INDOOR/OUTDOOR 62.5 MULTIMODE FIBER OPTIC CABLE, UL LISTED, FLAME RETARDANT, WATER-RESISTANT, UV-RESISTANT, FUNGUS-RESISTANT, TIGHT BUFFERED CONSTRUCTION (PVC JACKET)
F	OKONITE, OKOGUARD-OKOSEAL, MV-105, 5kV 133%, SINGLE CONDUCTOR
G	OKONITE C-L-X MV-105, 5kV 133%, FOR CABLE TRAY USE, MULTICONDUCTOR
Н	BELDEN 7953A (CAT 6 - INDUSTRIAL GRADE SUNGLIGHT & OIL RESISTANT - OUTDOOR RATED - PVC JACKET) OR APPROVED EQUAL
ı	15kV SYSTEM: SINGLE CONDUCTOR POWER SHALL BE 15 KV COPPER STRANDED, UL LISTED, TYPE EPR (PVC JACKET) COMMUNICATION/NETWORK CABLING

**PRELIMINARY - NOT** FOR CONSTRUCTION \*BURNS MSDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 OKLAHOMA FIRM LICENSEE NO. 421 SEPTEMBER 2022 A. HIMES checked S. DEFRANCESCO A. HIMES Cimarron Environmental Response Trust CABLE AND CONDUIT SCHEDULE -SHEET 3 142089 drawing Α BMCD-GWREMED-E105 sheet file E105.dwg

no. date by ckd

A 08/19/22 ACH SJD ISSUED FOR PRELIMINARY DESIGN

13

PANELBOARD NAME: BA1 PP-2 PANELBOARD TYPE: MLO PANEL LOCATION: BA1 INJECTION SKID SUPPLIED FROM: MCC-2 (BA1) SURFACE MOUNTED, NEMA 1 ENCLOSURE 120/240 VOLTS, 1 PHASE, 3 WIRE 100 AMP MAINS 18 KAIC

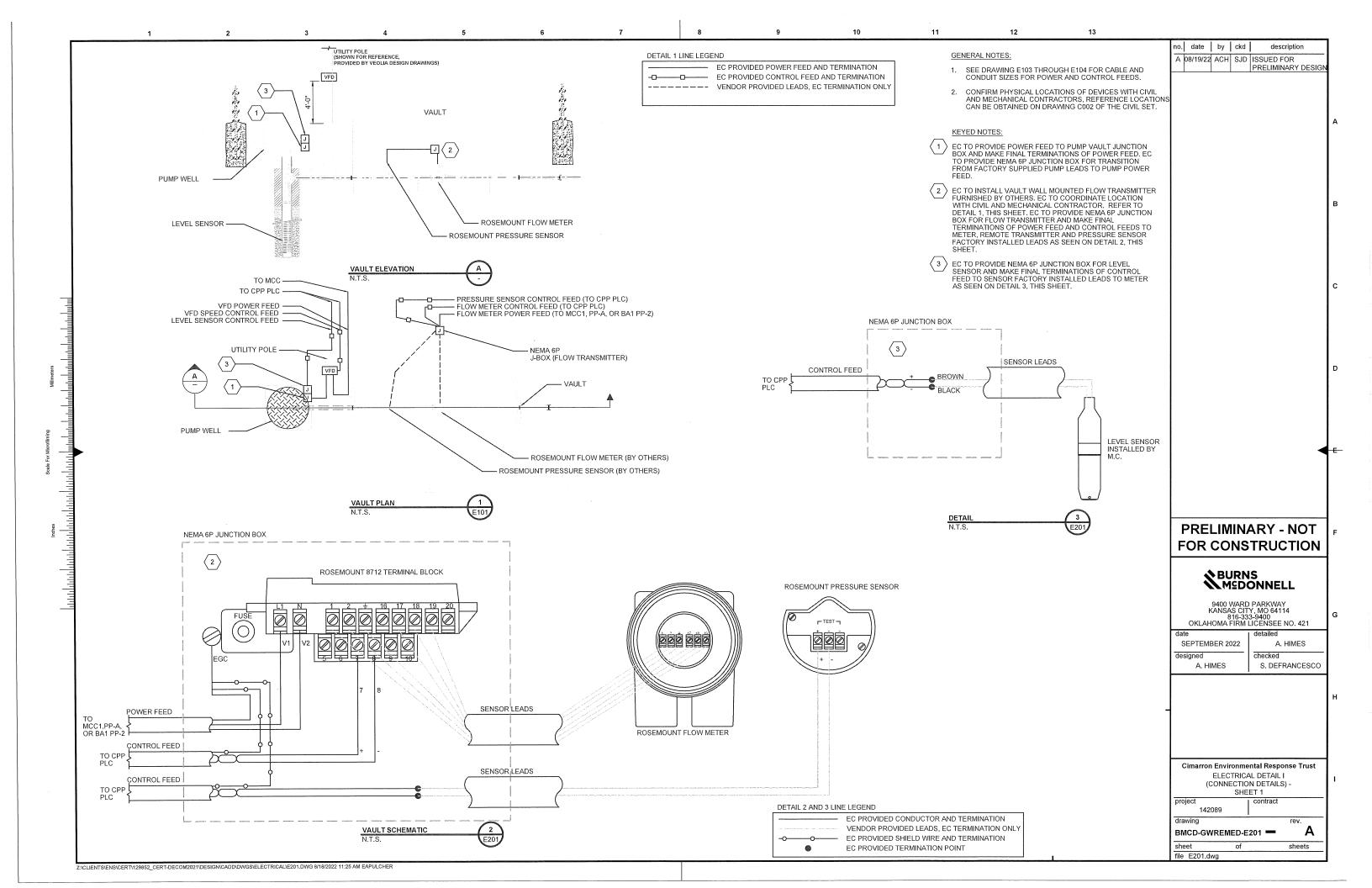
СКТ	TRIP	NO.	WIRE				WIRE	NO.	TRIP	CKT
NO.	AMPS	POLES	QTY / SIZE	LOAD SERVED	Ø	LOAD SERVED	QTY / SIZE	POLES	AMPS	NO.
1	15	1	(2) #12 + #12 G	BA1 CPP-4 Primary	Α	BA1 CPP-4 Secondary	(2) #12 + #12 G	1	15	2
3 5	15	2	SEE E104	P-20 GETR-BA1-01A FLOW METER	B A	P-21 GETR-BA1-01B FLOW METER	SEE E103	2	15	6
7	15	2	SEE E104	P-22 GETR-BA1-02A FLOW METER	B	P-23 GE-BA1-02 FLOW METER	SEE E103	2	15	10
11 13	15	2	SEE E104	P-24 BE-BA1-03 FLOW METER	B A	P-25 GE-BA1-04 FLOW METER	SEE E103	2	15	12 14
15 17					B A	SPARE	N/A	2	15	16 18
19 21					B	SPARE	N/A	2	15	20 22
23 25					B	SPARE	N/A	2	15	24 26
27					В	SPARE	N/A	1	15	28
29					Α	SPARE	N/A	1	15	30

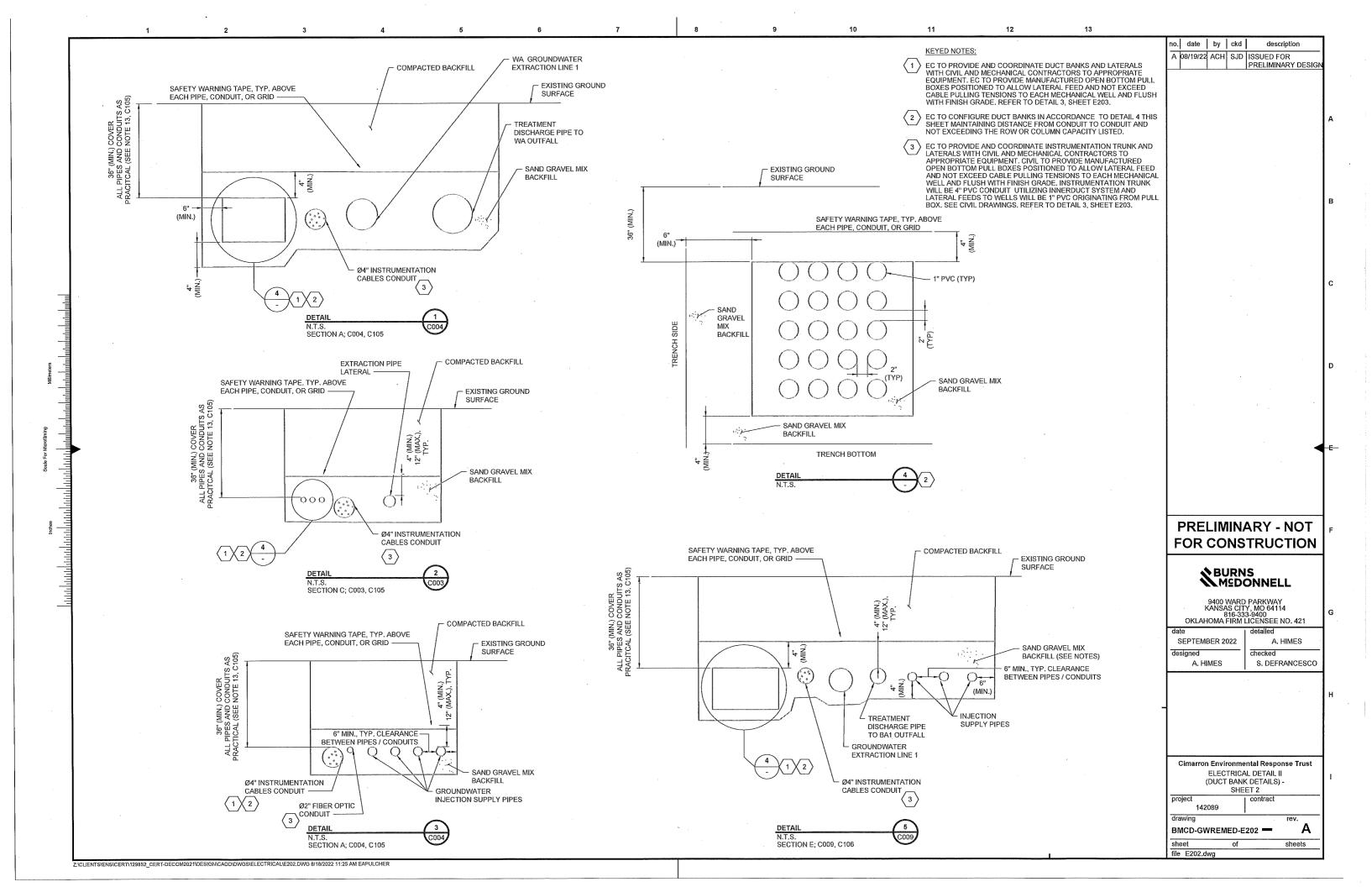
A 08/19/22 ACH SJD ISSUED FOR PRELIMINARY DESIGN PRELIMINARY - NOT FOR CONSTRUCTION \*BURNS MCDONNELL 9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 OKLAHOMA FIRM LICENSEE NO. 421 SEPTEMBER 2022 A. HIMES designed checked S. DEFRANCESCO A. HIMES Cimarron Environmental Response Trust PANELBOARD SCHEDULES project contract 142089 drawing BMCD-GWREMED-E106 sheet file E106.dwg

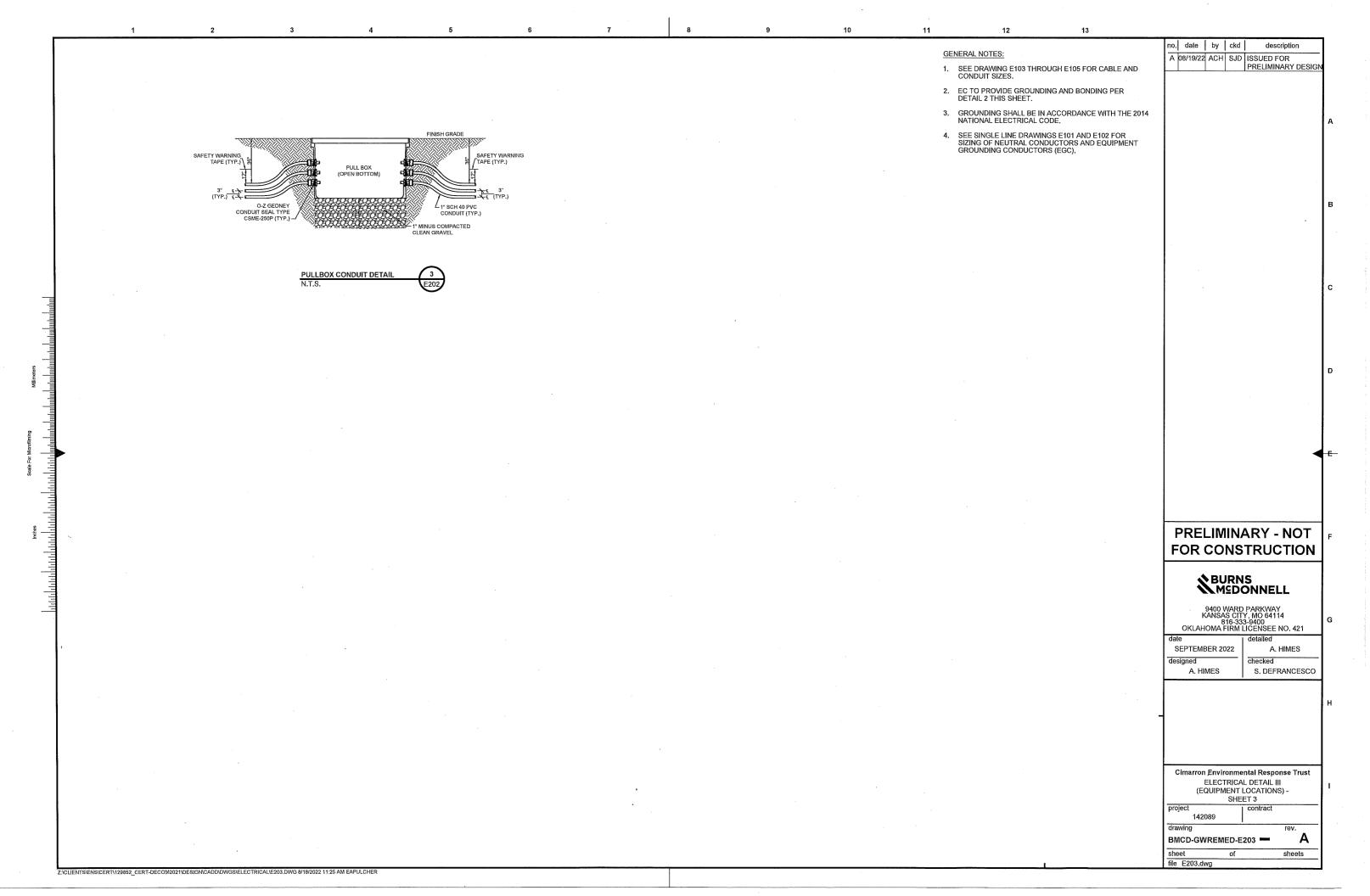
Α

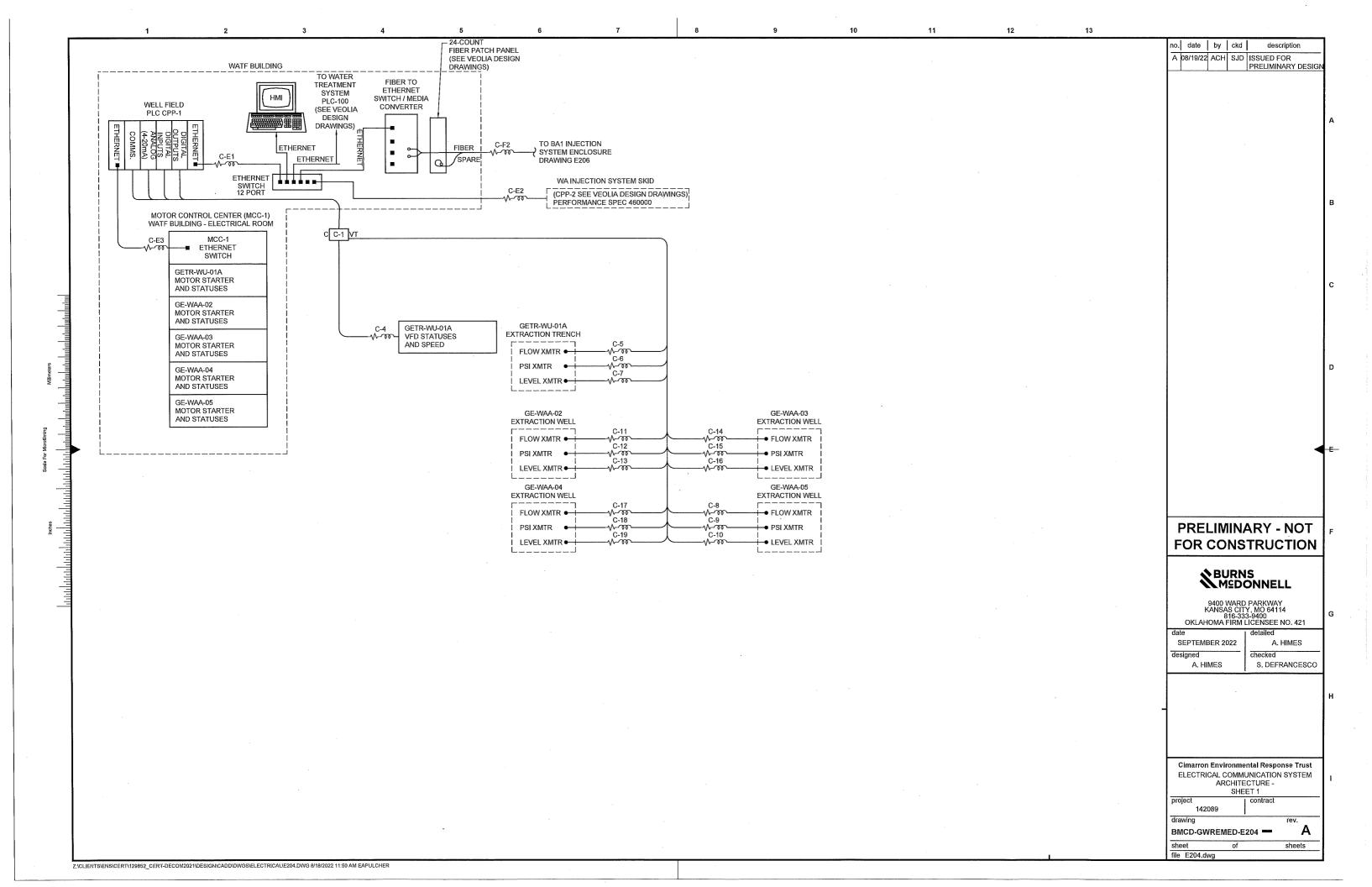
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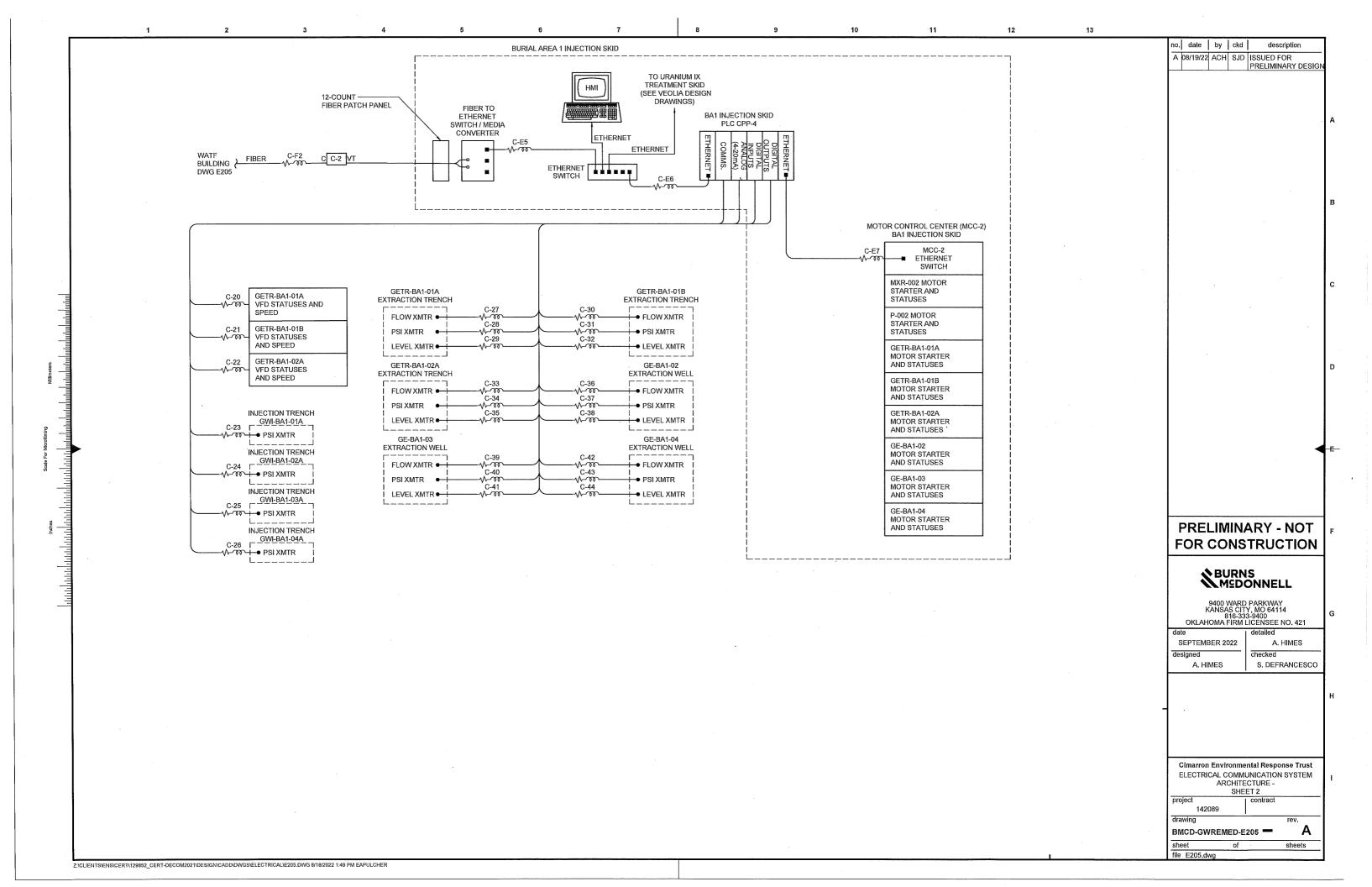
Z:\CLIENTS\ENS\CERT\129852\_CERT-DECOM2021\DESIGN\CADD\DWGS\ELECTRICAL\E106.DWG 8/18/2022 11:50 AM EAPULCHER

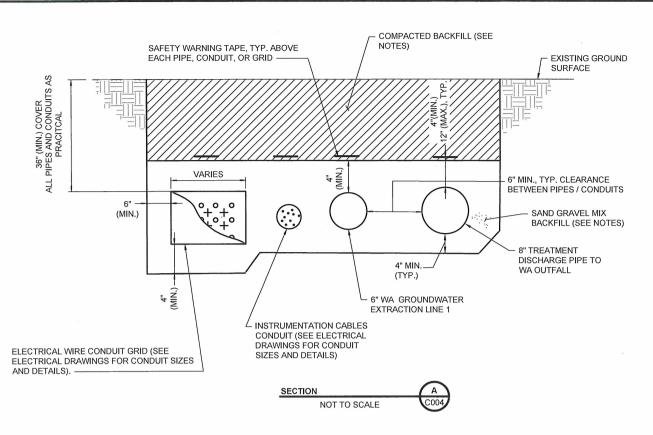






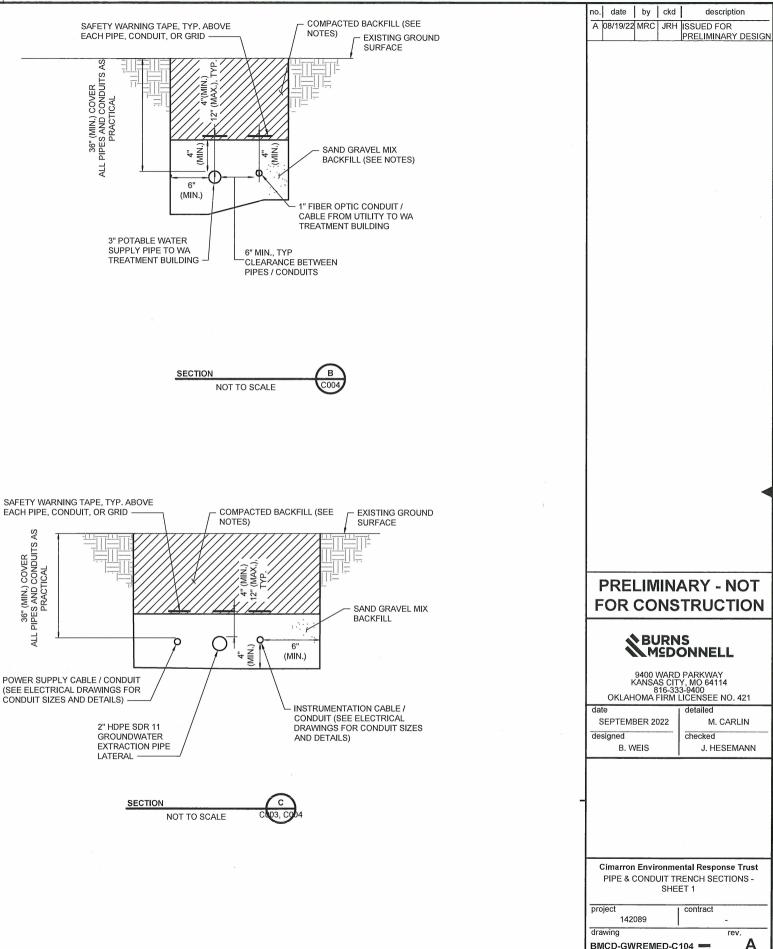






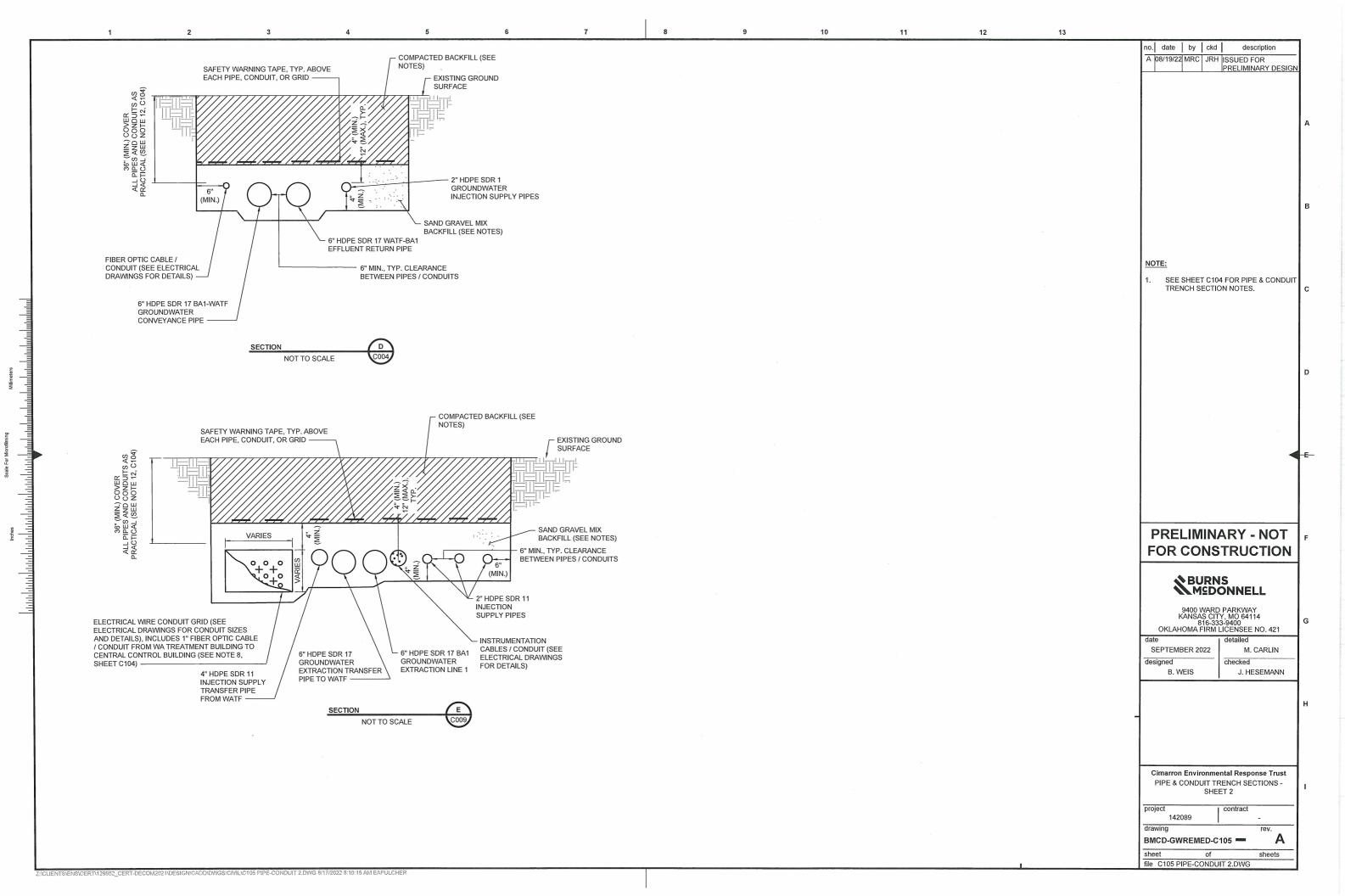
## PIPE & CONDUIT TRENCH SECTIONS NOTES:

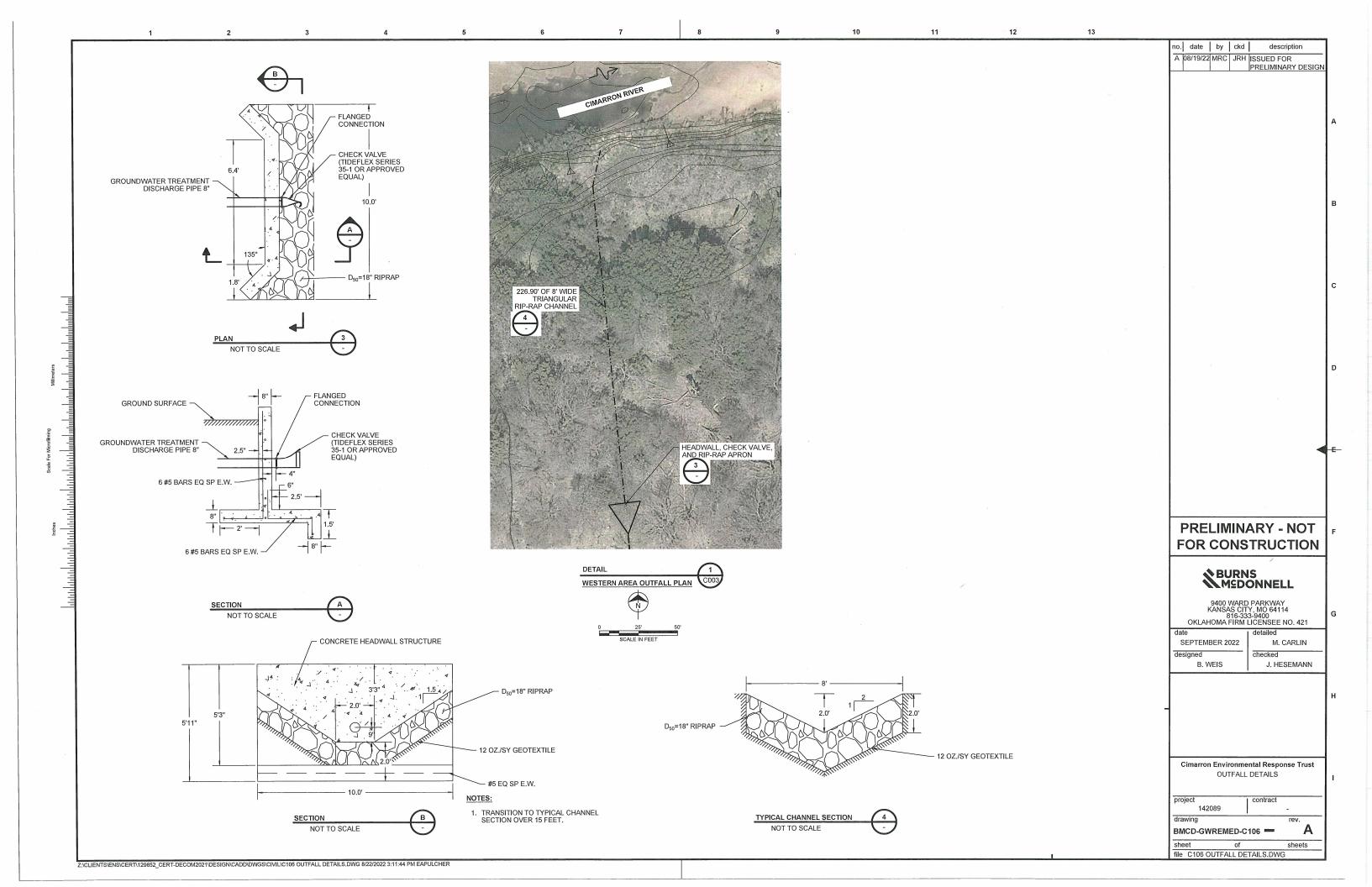
- 1. TRENCHES SHALL BE EXCAVATED IN ACCORDANCE WITH OSHA STANDARDS.
- 2. NUMBER OF CABLES AND ARRANGEMENT IN ELECTRICAL WIRE CONDUIT GRID MAY VARY, SHOWN FOR VISUAL CONCEPT PURPOSES ONLY. SUBCONTRACTOR SHALL ORGANIZE CONDUITS / WIRING IN A LOGICAL ARRANGEMENT. SUBMIT PROPOSED ARRANGEMENT FOR APPROVAL AND PROVIDE AS BUILT CONDITIONS.
- 3. CLEARANCE AROUND PIPES / CONDUITS SHALL BE INCREASED IF NECESSARY TO ATTAIN GOOD COMPACTION IN HAUNCHES OF PIPES.
- 4. SAFETY WARNING TAPE COLOR AND TEXT SHALL BE SPECIFIC TO THE PIPE, CONDUIT, OR ELECTRICAL GRID IT IS INSTALLED TO PROTECT.
- 5. BACKFILL SHALL BE CLEAN, ACCEPTABLE EXCAVATED SOIL DURING TRENCHING OR FROM BORROW SOURCE.
- 6. PLACE BACKFILL IN LOOSE LIFTS NOT TO EXCEED 6 INCHES IN THICKNESS. 4" BEDDING BELOW PIPING OR CONDUIT TO BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DRY DENSITY WITHIN THE MOISTURE RANGE OF +/- 3%. SUBSEQUENT BEDDING TO BE COMPACTED BY HAND OR MECHANICAL METHODS. SUITABLE CLEAN MATERIAL TO BE PROVIDED BY SUBCONTRACTOR.
- 7. DISCHARGE PIPING TRENCH BACKFILL (BEDDING AND SOIL) SHALL BE COMPACTION TESTED IN ACCORDANCE WITH ASTM D6938 AT A FREQUENCY OF ONCE EVERY 300 LINEAR FEET. BACKFILL FAILING TO MEET COMPACTION REQUIREMENTS SHALL BE RE-COMPACTED AND TESTED AT NO COST TO OWNER/ENGINEER.
- 8. ELECTRICAL WIRE CONDUIT GRID (DUCT BANK) SHALL CONTAIN PLASTIC SPACERS AND SHALL BE BACKFILLED WITH SAND. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 9. TRACER WIRE AND TEST STATIONS SHALL BE INSTALLED IN TRENCHES WITHOUT ELECTRICAL POWER OR INSTRUMENTATION CABLES. TEST STATIONS SHALL BE INSTALLED AT A MAXIMUM OF ONCE EVERY 1000 FEET.
- 10. SUBCONTRACTOR MAY ELECT TO CONSTRUCT A FLAT BOTTOM TRENCH IF IT IS DETERMINED TO BE A MORE ECONOMICAL APPROACH, MINIMUM CLEARANCES SHOWN MUST BE PROVIDED.
- 11. IF ROCK OR GROUNDWATER IS ENCOUNTERED AT SHALLOW DEPTHS ALONG TRENCH ALIGNMENT, MINIMUM PIPE / CONDUIT COVER DEPTH MAY BE REDUCED TO 12" BELOW EXISTING GROUND SURFACE IF 6" MOUND ABOVE EXISTING SURFACE IS PROVIDED TO MAINTAIN 18" TOTAL COVER. MOUNDING MAY NOT BE PERMISSIBLE IN DRAINAGE WAYS OR AREAS TO BE MOWED. ENGINEER SHALL APPROVE ALL AREAS WHERE MOUNDING IS PROPOSED, SUBMIT AREAS OF PROPOSED MOUNDING FOR APPROVAL PRIOR TO CONSTRUCTION.

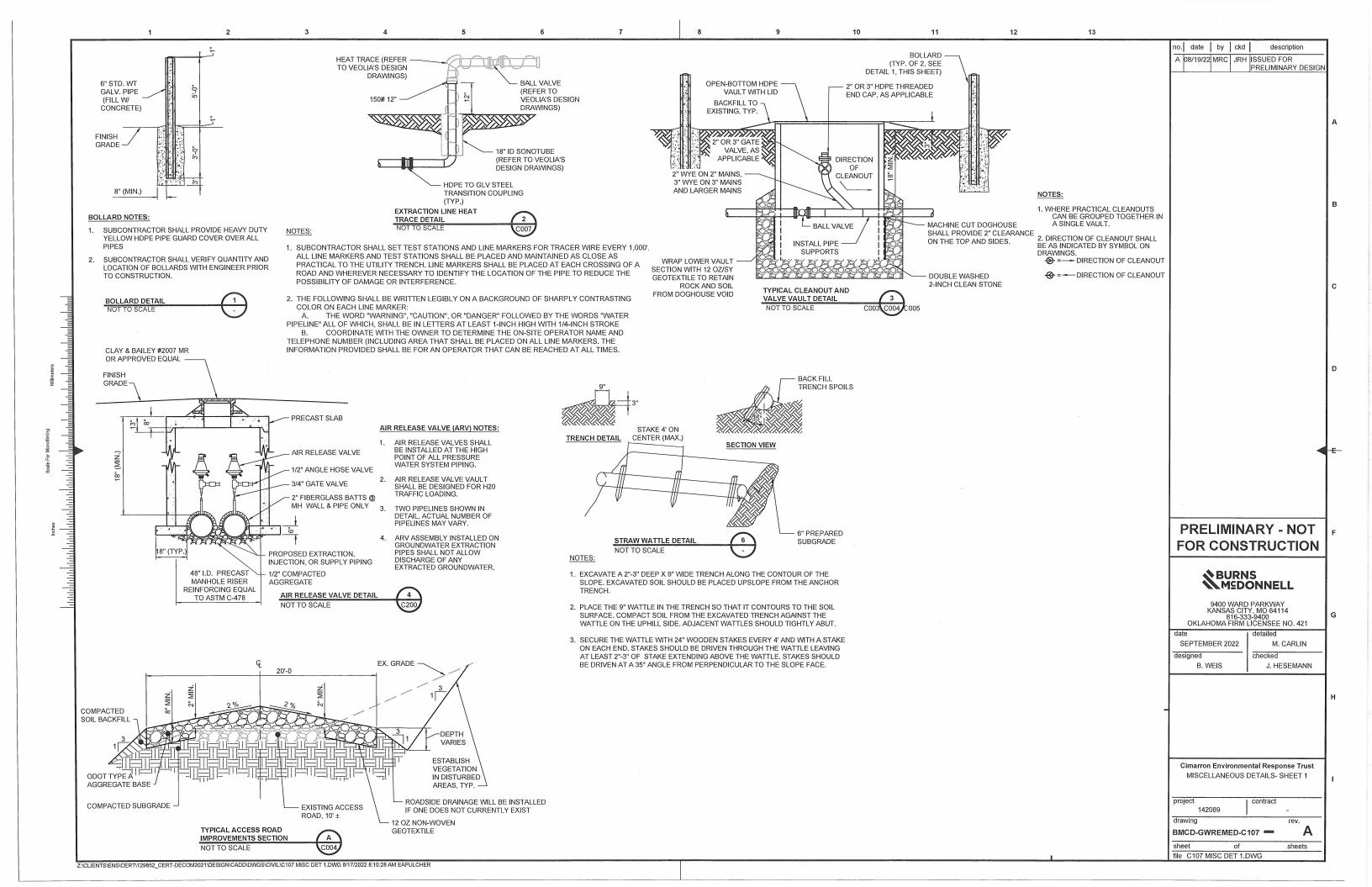


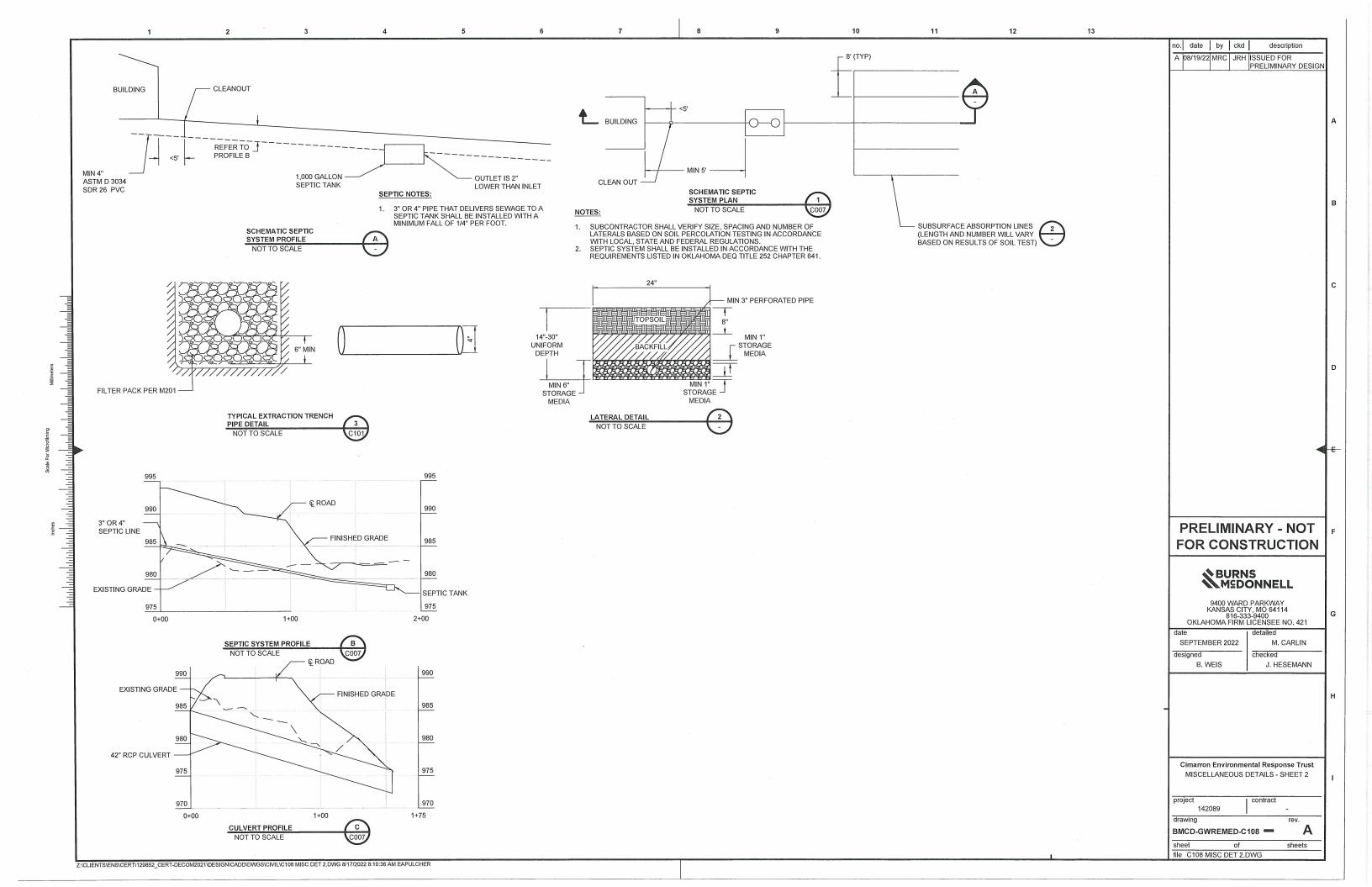
sheets

file C104 PIPE-CONDUIT 1.DWG

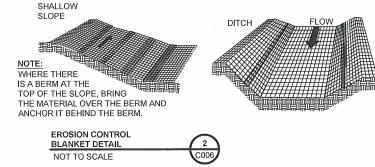








2% TO 3% SLOPE



-12" COMPACTED

8" PREPARED

SUBGRADE

GRADE TO DRAIN

AGGREGATE

### **EROSION CONTROL BLANKET NOTES:**

MIRAFI HP270 OR

**EQUIVALENT WOVEN** 

GEOTEXTILE FABRIC

AFTER SITE HAS BEEN SHAPED AND GRADED, PREPARE A FRIABLE SEEDBED RELATIVELY FREE FROM CLODS AND ROCKS MORE THAN 1 1/2 INCHES IN DIAMETER AND ANY FOREIGN MATERIAL THAT WILL PREVENT UNIFORM CONTACT OF THE PROTECTIVE COVERING WITH THE SOIL SURFACE.

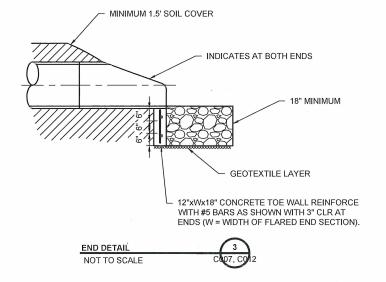
B) LAYING AND STAPLING:
SUBCONTRACTOR SHALL INSTALL EROSION CONTROL BLANKET PER MANUFACTURER'S SPECIFICATIONS.

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- 1. START LAYING THE PROTECTIVE COVERING FROM THE TOP OF THE CHANNEL OR SLOPE AND UNROLL DOWN-GRADE.
- 2. ALLOW TO LAY LOOSELY ON SOIL; DO NOT STRETCH.
- 3. UPSLOPE ENDS OF THE BLANKET SHOULD BE BURIED IN AN ANCHOR SLOT NO LESS THAN 6-INCHES DEEP. TAMP EARTH FIRMLY OVER THE MATERIAL. WHEN TOP IS RELATIVELY FLAT, EXTEND BLANKET ABOUT 40 INCHES AWAY FROM SLOPE. STAPLE THE MATERIAL AT A MINIMUM OF EVERY 12 INCHES ACROSS THE TOP END.
- 4. EDGES OF THE MATERIAL SHALL BE STAPLED EVERY 3 FEET. WHERE MULTIPLE WIDTHS ARE LAID SIDE BY SIDE, THE ADJACENT EDGES SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND STAPLED TOGETHER.
- 5. STAPLES SHALL BE PLACED DOWN THE CENTER, STAGGERED WITH THE EDGES AT 3-FOOT INTERVALS.

AINTENANCE & INSPECTIONS.
INSPECT CONTROLS AFTER EACH RAIN EVENT OF 1/2 INCH OR GREATER, AND EVERY 7 DAYS UNTIL VEGETATION IS ESTABLISHED,
FOR EROSION OR UNDERMINING BENEATH THE NETTING, BLANKETS, OR MATS. IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE MATERIAL, ADD SOIL, TAMP DOWN, AND RESEED; RESECURE THE MATERIAL IN PLACE. IF NETTING, BLANKETS OR MATS BECOME DISLOCATED OR DAMAGED, REPAIR OR REPLACE, RESEED AND RESECURE IMMEDIATELY.

EROSION CONTROL BLANKET (ECB) AND INSTALLATION STAPLES, WHERE SPECIFIED ON THE PLANS, SHALL BE NORTH AMERICAN GREEN C125 OR APPROVED EQUAL, A MACHINE-PRODUCED MAT OF 100% COCONUT FIBER MATRIX WITH A FUNCTIONAL LONGEVITY OF APPROXIMATELY 36 MONTHS. CONTRACTOR SHALL INSTALL AND STAPLE ECB PER MANUFACTURER'S SPECIFICATIONS.



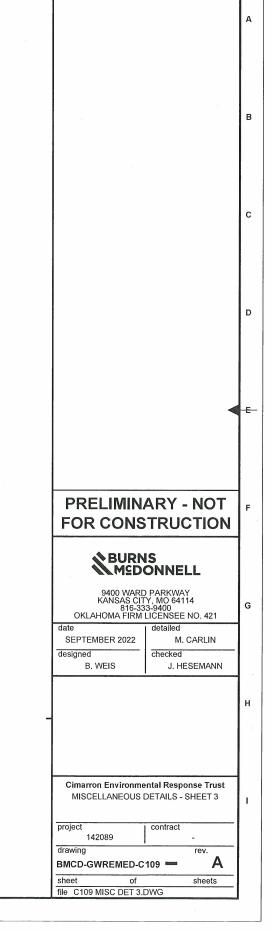
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description

PRELIMINARY DESIGN

## PROJECT CONTROL POINTS

Point Table						
Point #	Northing	Easting				
1	320008	2091894				
2	320395	2092391				
3	320321	2092450				
4	320545	2092583				
5	320730	2092572				
6	321050	2092567				
7	321230	2092563				
8	321328	2092556				
9	321397	2092550				
10	321630	2092593				
11	321684	2092599				
12	321824	2092582				
13	321883	2092571				
14	321901	2092602				
15	321914	2092625				
16	321998	2092790				
17	322110	2093010				
18	322218	2093220				
19	322316	2093415				
20	322362	2093586				
21	321753	2092327				
22	321653	2092136				
23	321626	2092083				
24	321476	2091839				
25	321800	2091787				
26	321957	2091748				
27	322316	2092559				
28	322349	2092559				
29	322561	2092881				
30	323381	2092183				
31	323740	2092141				
32	320903	2093000				
33	321347	2092928				
34	321498	2092963				
35	321560	2092978				
36	321568	2092997				

	Point Table						
Point#	Northing	Easting					
37	321670	2093228					
38	321711	2093320					
39	321723	2093348					
40	321859	2093654					
41	321904	2093757					
42	321912	2093775					
43	321934	2093917					
44	321994	2094066					
45	322177	2094129					
46	322791	2094731					
47	322570	2094177					
48	322838	2094945					
49	322915	2095396					
50	322523	2095489					
51	322696	2095401					
52	322792	2095353					
53	322592	2095528					
54	322612	2095540					
55	322720	2095566					
56	322810	2095488					
57	322848	2095455					
58	322879	2095428					
59	322952	2095364					
60	322970	2095349					
61	323051	2095314					
62	323077	2095321					
63	323181	2095349					
64	323281	2095376					
65	323341	2095392					
66	323379	2095423					
67	323461	2095491					
68	323543	2095558					

Point Table					
Point #	Northing	Easting			
1	321028	2092690			
2	320888	2092700			
3	320896	2092815			
4	321036	2092805			
5	321179	2092872			
6	320897	2092892			
7	320886	2092890			
8	320877	2092885			
9	320796	2092810			
10	320791	2092803			
11	320787	2092791			
12	320776	2092639			
13	320763	2092615			
14	320818	2092614			
15	320850	2092666			
16	320867	2092665			
17	320865	2092634			

18 321041 2092621

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Point Table							
Point#	Northing	Easting					
19	320920	2092661					
20	320938	2092648					
21	320929	2092659					
22	320956	2092626					
23	320963	2092654					
24	320962	2092636					
25	320895	2092669					
26	321043	2092645					
27	321086	2092666					
28	321094	2092782					
29	321137	2092803					
30	320972	2092688					
31	321052	2092641					

8

## POINT TABLE FOR WATE SEE SHEET C006

Point Table							
Point #	Northing	Easting					
1	322249	2095362					
2	322321	2095360					
3	322373	2095319					
4	322439	2095328					
5	322482	2095377					
6	322478	2095446					
7	322438	2095495					
8	322361	2095472					
9	322339	2095440					
10	322393	2095416					
11	322404	2095396					
12	322372	2095359					

Point Table		
Point #	Northing	Easting
13	322334	2095420
14	322401	2095464
15	322441	2095400
16	322366	2095416
17	322375	2095422
18	322390	2095376
19	322399	2095381
20	322423	2095395
21	322432	2095400
22	322408	2095441
23	322399	2095435

POINT TABLE FOR BA1 SEE SHEET C009

1	NJECTION WELLS	
NAME	NORTHING	EASTING
GWI-WU-01	320692	2092492
GWI-BA1-02	322713	2095434
GWI-BA1-03	322811	2095391
GWI-BA1-04	322845	2095475

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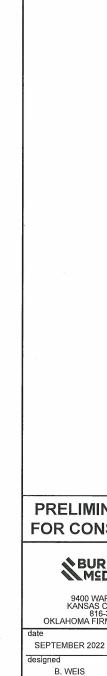
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EXTRACTION WELLS				
NAME	NORTHING	EASTING		
GE-WAA-02	321789	2091723		
GE-WAA-03	321503	2091815		
GE-WAA-04	322114	2091708		
GE-WAA-05	321951	2091715		
GE-BA1-02	322970	2095385		
GE-BA1-03	323067	2095356		
GE-BA1-04	323175	2095372		
GE-BA1-05	323274	2095399		
GE-BA1-06	323365	2095440		

	SUMPS	,
NAME	NORTHING	EASTING
GETR-WU-01	321274	2091756
GETR-BA1-02	322839	2095445



no. date by ckd

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# \*BURNS MSDONNELL

9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400 OKLAHOMA FIRM LICENSEE NO. 421

aate	uetalleu
SEPTEMBER 2022	M. CARLIN
designed	checked
B. WEIS	J. HESEMANN

Cimarron Environmental Response Trust MISCELLANEOUS DETAILS - SHEET 4

142089

Α BMCD-GWREMED-C110

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POINT TABLE FOR BENDS IN TRENCH

file C110 MISC DET 4.DWG

