

ROMTEC UTILITIES, INC.

ELECTRICAL DRAWING SET

FOR

PROJECT NAME

PROJECT LOCATION

SCADA CONNECT

CELLULAR COMMUNICATION WITH DIGITAL AND ANALOG I/O

DRAWINGS LIST REPORT

SHEET	DRAWING DESCRIPTION
1	BASE MODULE AND POWER SUPPLY
2	I/O EXTENSION CARD
3	TERMINAL CONNECTIONS
4	ENCLOSURE DRAWING
5	BACK PLATE LAYOUT DRAWING

FIELD INSTALLATION AND WIRING:

GENERAL:

THE SCHEMATIC DRAWINGS AID IN UNDERSTANDING AND INSTALLING THE CONTROL SYSTEM. COMPLETE FIELD WIRING INSTALLATION INSTRUCTIONS ARE NOT INCLUDED HERE AND THE CORRECT INSTALLATION AND CONFORMANCE TO APPLICABLE CODES IS THE RESPONSIBILITY OF THE INSTALLER.

FIELD WIRING INSIDE ENCLOSURES:

- 1: CONNECTIONS WILL BE ONLY TO TERMINALS PROVIDED.
- 2: WIRE LENGTH FROM ENTRY POINT TO TERMINAL BOARD TO BE AS SHORT AS POSSIBLE.
- 3: SIGNAL WIRE MUST NOT BE PLACED OR RUN WITH NON-SIGNAL WIRE ENTRY INTO THE ENCLOSURE.
- 4: INCOMING WIRE MUST NOT BE ROUTED IN WIRE CHANNELS OR THROUGH AREAS OF POWER AND CONTROL COMPONENTS WIRING.
- 5: WHEN UNLIKE SIGNAL LEVELS MUST CROSS THEY SHOULD CROSS AT 90 DEGREE ANGLES AT A MAXIMUM SPACING.

FIELD CONNECTION NOTES:

- 1: ALL WIRING TO BE: XXHW-2 COPPER, UNLESS OTHERWISE SPECIFIED.
- 2: SHIELDED CABLES ARE #18GA. FOIL SHIELDED TYPE, 2 CONDUCTOR CABLE TO BE BELDEN #9318 OR EQUIVALENT, 3 CONDUCTOR CABLE TO BE BELDEN #9365 OR EQUIVALENT, AND 4 CONDUCTOR CABLE TO BE BELDEN #9368 OR EQUIVALENT UNLESS OTHERWISE SPECIFIED. NOTE: SHIELDS ARE ONLY CONNECTED AT THE SIGNAL SOURCE, OTHER END OF THE SHIELD IS UNCONNECTED AND SHOULD ISOLATED.

DRAWING STANDARDS:

WIRE COLOR STANDARD		
USE	COLOR	SYM
POWER AC	BLACK	<BK>
CONTROL POWER (H)	RED	<RD>
CONTROL POWER (N)	WHITE	<WH>
UPS CONTROL POWER (H)	ORANGE	<OR>
UPS CONTROL POWER (N)	WHITE/ORANGE	<WO>
DC POWER (+)	BLUE	<BL>
DC POWER (-)	WHITE/BLUE	<WB>
EXTERNAL POWER	YELLOW	<YL>
INTRINSICALLY SAFE WIRING	BLUE/WHITE	<BW>
GROUND	GREEN	<GN>

WIRE SPECS : -ALL WIRING TO BE: COPPER STRANDED, UNLESS OTHERWISE SPECIFIED.

-ALL TERMINALS SHALL BE LEGIBLY NUMBERED AND SHALL MATCH THE CONNECTED WIRE NUMBER AS PER DRAWING.

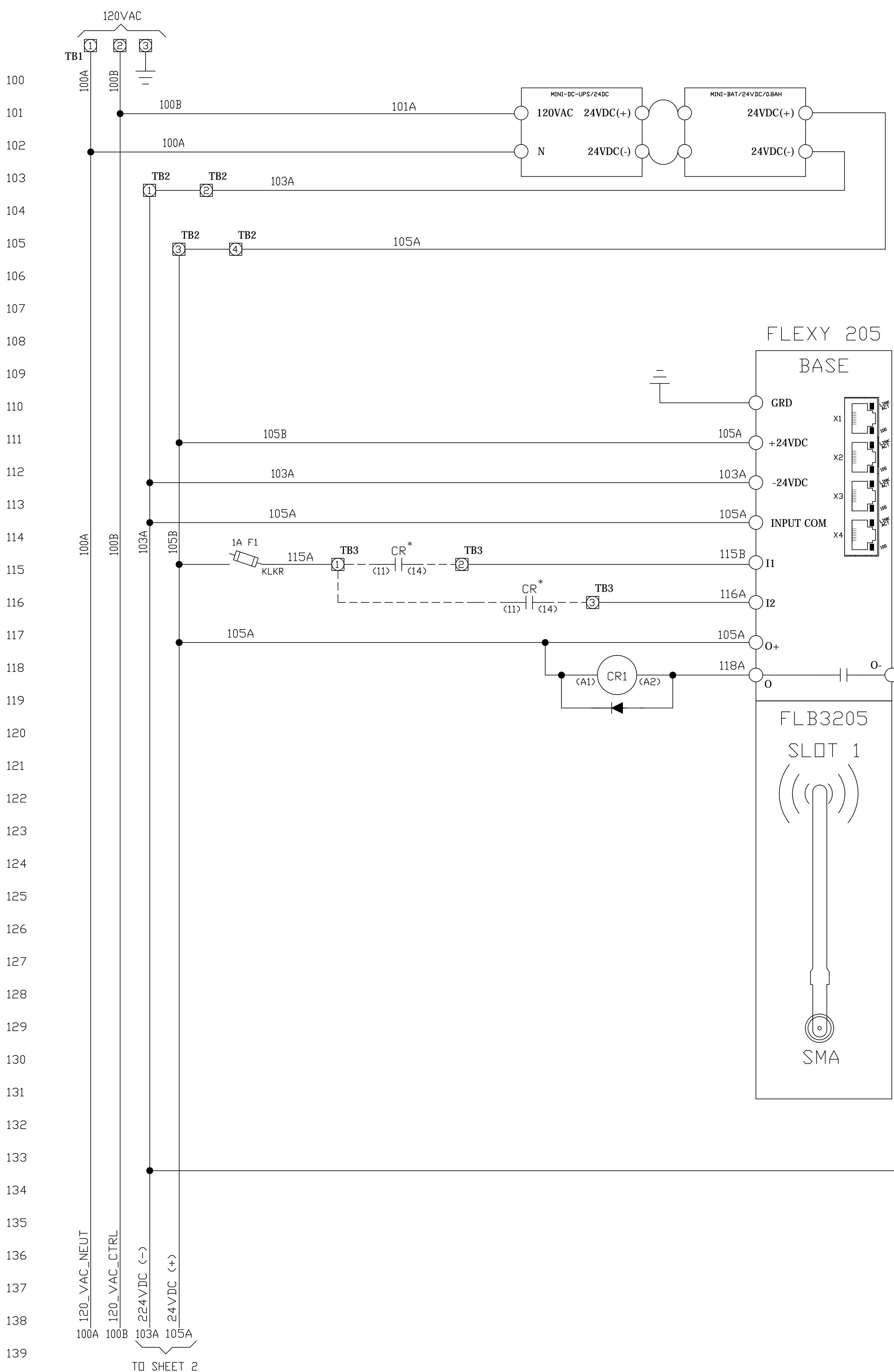
REV	DATE	DESCRIPTION	BY
0			

PROJECT #: EO455D01
 DSN: KAS
 DRN: DRN
 CMD: CRD
 DATE: 11/29/18

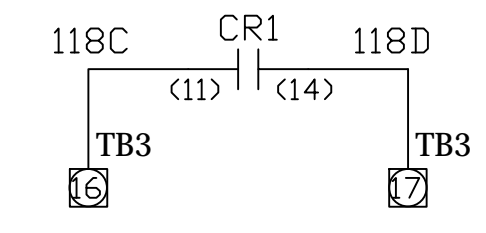
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SCADA CONNECT
 ROSEBURG, OR
 TITLE PAGE



- NOTES:
- * CUSTOMER SUPPLIED CONTACTS
 - COMPLETE THE SCADA CONNECT SETUP FORM TO IDENTIFY I/O.



REV	DATE	DESCRIPTION	REVISION HISTORY
0			

PROJECT #: EQ455001
 DSN: KAS
 DRN: DRN
 CMD: CMD
 DATE: 11/29/18

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ROMTEC UTILITIES
 18240 NORTH BANK ROAD
 ROSEBURG, OREGON 97470
 PHONE: (541) 496-9878
 WWW.ROMTECUTILITIES.COM

SCADA CONNECT
 ROSEBURG, OR
 BASE MODULE

FROM SHEET 1

24VDC

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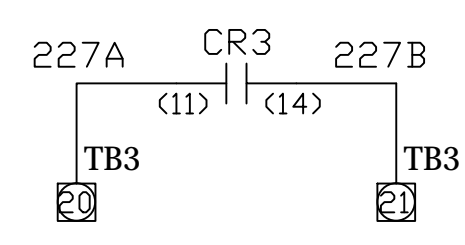
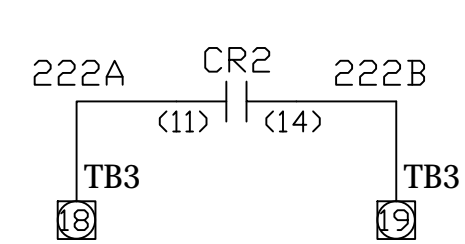
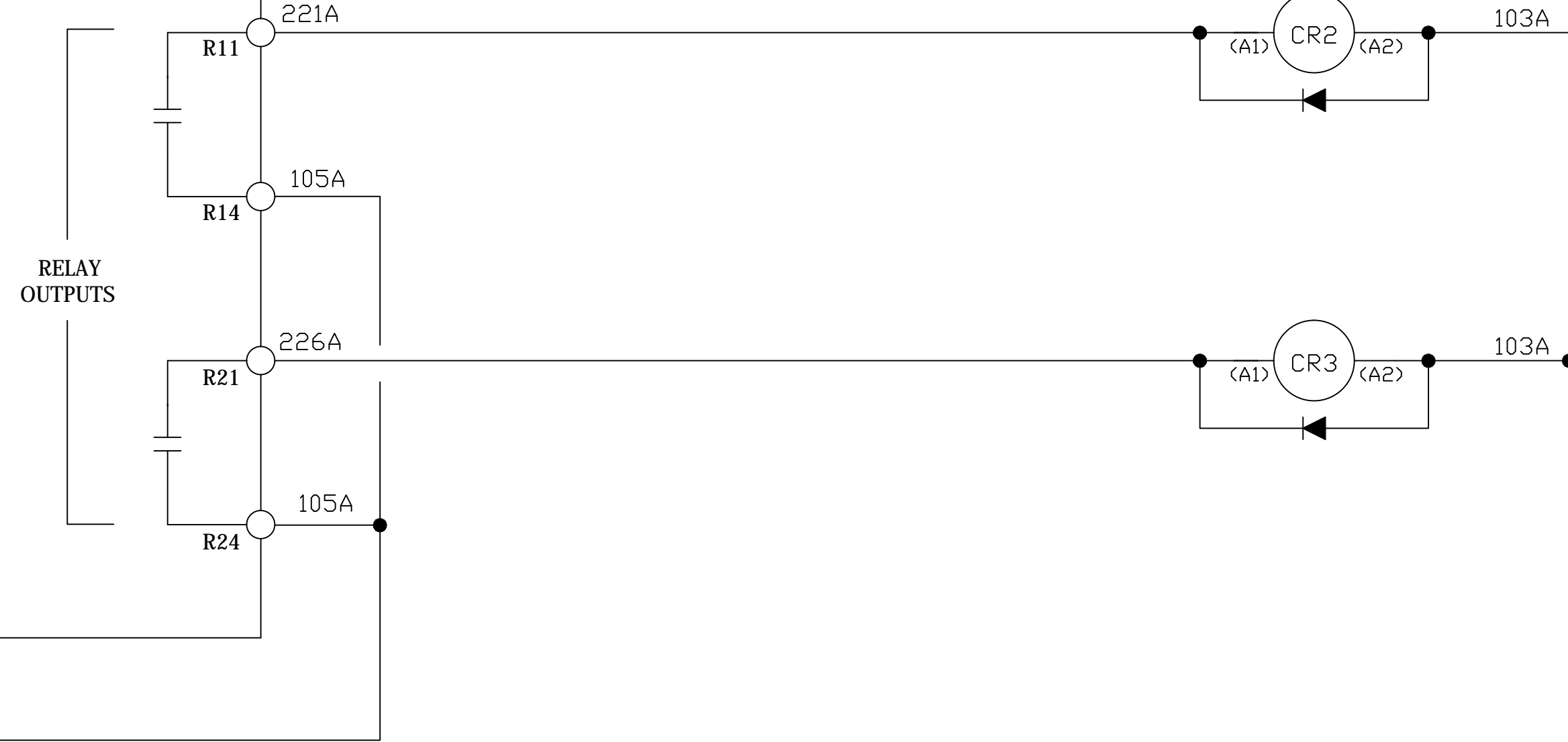
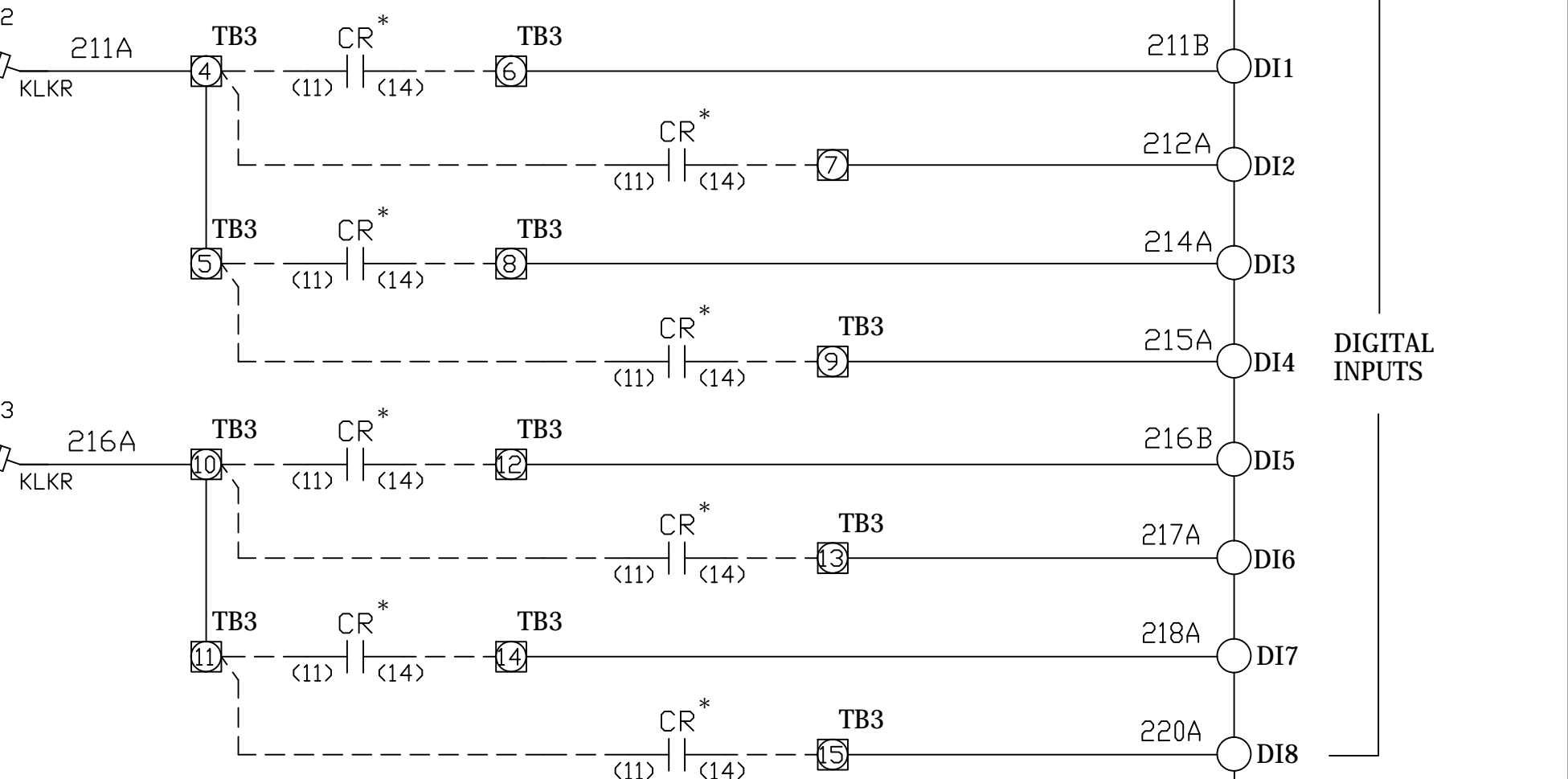
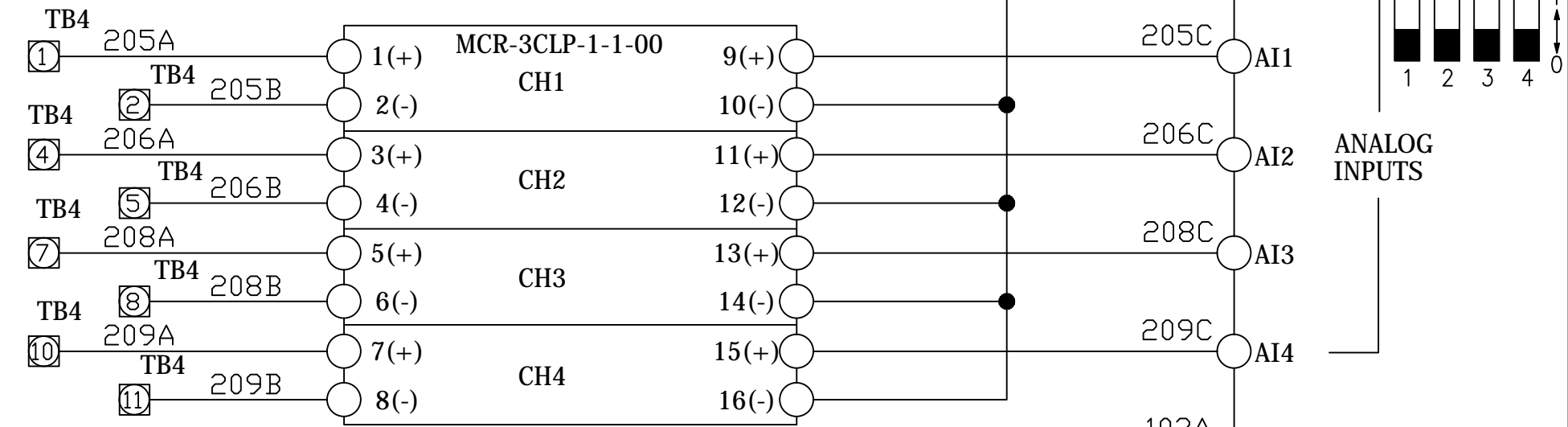
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REV	DATE	DESCRIPTION	REVISION HISTORY
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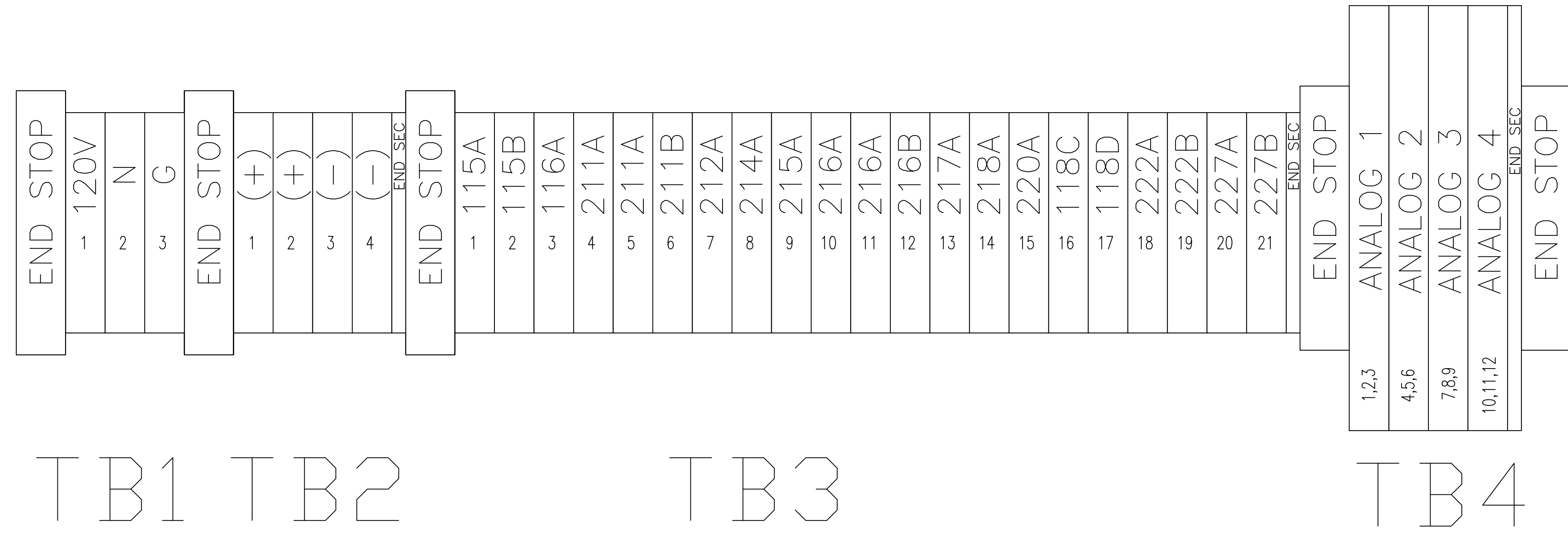
PROJECT #: EC455D01
 DSN: KAS
 DRN: DRN
 CKD: CKD
 DATE: 11/29/18

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SCADA CONNECT
 ROSEBURG, OR
 I/O EXTENSION MODULE

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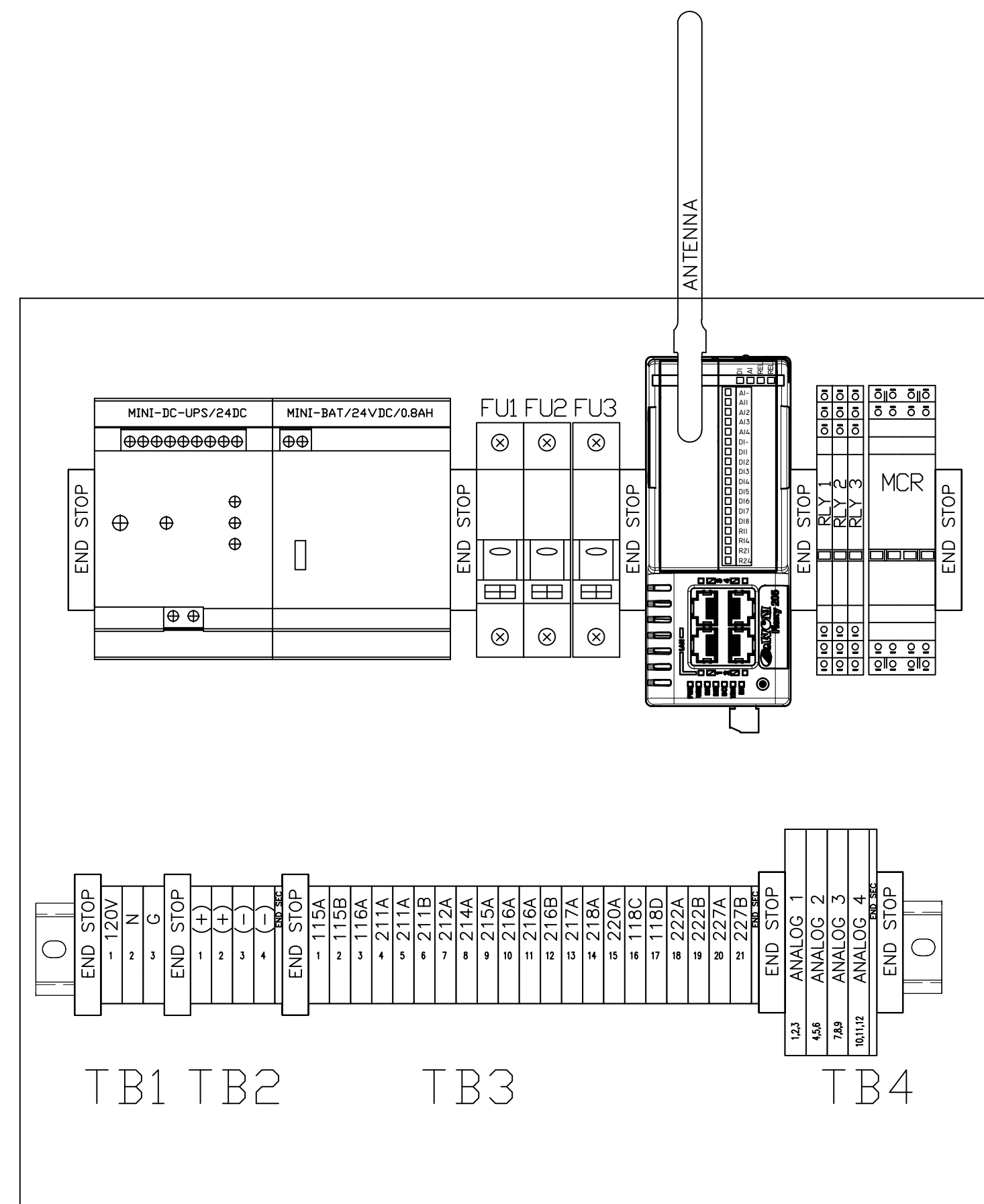
SCADA CONNECT
ROSEBURG, OR
TERMINAL CONNECTIONS



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REV	DATE	DESCRIPTION	BY
0			



PARTS LIST			
ITEM	QTY	STOCK NUMBER	DESCRIPTION
1	1	IM2275	PELICAN STORM CASE
2	1	20500_00MA	EWON FLEXY BASE UNIT
3	1	FLB3205	CELLULAR 4G CARD
4	1	FLX3402	I/O CARD
5	1	FAC90901_0000	B4G DIPOLE ANTENNA
6	1	2866640	MINI-DC-UPS/24DC
7	1	2866666	MINI-BAT/24DC/0.8AH
8	3	RSL1PVBU	24VDC RELAY
9	1	2814045	PASSIVE LOOP ISOLATOR
10	3	LPSC001ID	LED INDICATING CLASS CC FUSE HOLDERS
11	3	KTK-R	1 AMP FUSES
12	10	0800886	TERMINAL END CLAMP
13	3	3047206	TERMINAL END BARRIER
14	28	3044199	TERMINAL - GRAY
15	1	3044128	TERMINAL GROUND
16	4	3214259	TERMINAL - 3 TIER
17	1	3214314	TERMINAL - 3 TIER END COVER
18	28"	70169109	DIN RAIL

THE ENCLOSURE SHOWN REPRESENTS THE INTENT OF THE DESIGN. OFTEN THE ENCLOSURE SIZE AND LAYOUT MUST CHANGE TO ACCOMMODATE THE REQUIRED COMPONENTS AND FINAL DESIGN. PLEASE CONTACT ROMTEC UTILITIES TO OBTAIN ACTUAL AS-BUILT DRAWINGS BEFORE INSTALLATION.

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ROMTEC UTILITIES
 18240 NORTH BANK ROAD
 ROSEBURG, OREGON 97470
 PHONE: (541) 496-9678
 WWW.ROMTECUTILITIES.COM

SCADA CONNECT
 ROSEBURG, OR
 ENCLOSURE DRAWING

PROJECT #:	EQ455D01
DSN:	KAS
DRN:	DRN
CKD:	CKD
REV:	0
DATE:	
DESCRIPTION:	
REVISION HISTORY:	
BY:	