
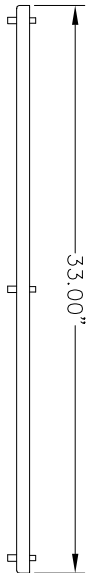
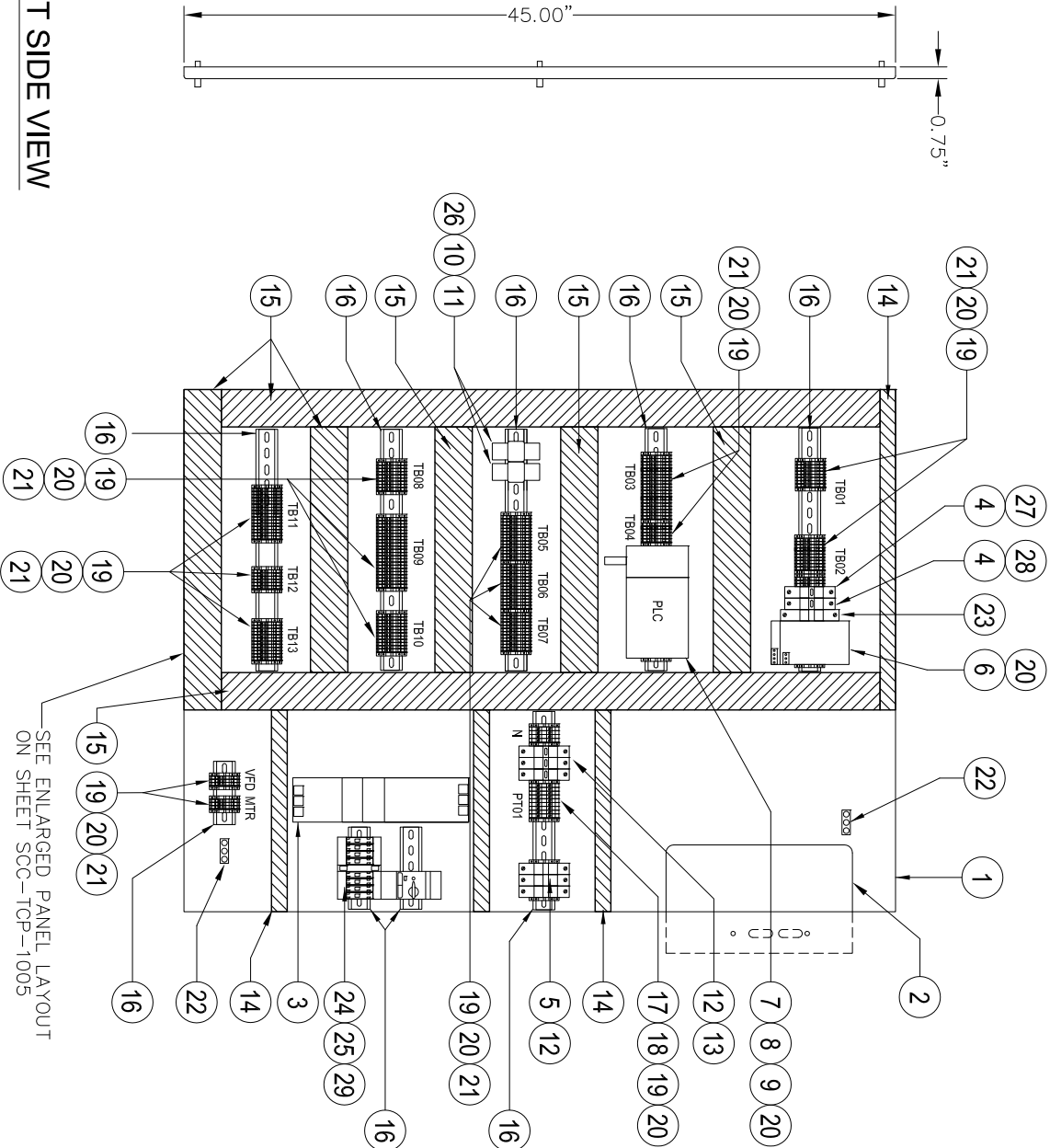


BILL OF MATERIAL				
ITEM #	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION
1	1	SPSDN12-483810-H	SCHAEFER'S	NEMA 12 ENCLOSURE 48 X 37.38 X 10
2	1	6AV6647-0AE11-3AX0	SIEMENS	KTIP1000 BASIC COLOR DP 10" HMI
3	1	CUB5PR00	RED LION	PANEL METER, PROCESS SIGNALS
4	1	ECX2300-5K	AUTOMATION DIRECT	POTENTIOMETER, 5k OHM, 22mm, PANEL MOUNT
5	1	ECX2640	AUTOMATION DIRECT	POTENTIOMETER LEGEND PLATE
6	2	E26XWML392W-V2	EATON	STACKLIGHT, GREEN/AMBER/RED, 24V LED
7	2	E26S109	EATON	STACKLIGHT MOUNTING BASE
8	2	E26BJU	EATON	STACKLIGHT EXTENSION TUBE, 160mm
9	1	3SB3603-1CA21	SIEMENS	EMERGENCY STOP PUSHBUTTON, PUSH-PULL
10	2	3SB3644-6BA40	SIEMENS	INDICATOR LIGHT, GREEN, 24VDC, 22mm
11	2	3SB3601-0AA41	SIEMENS	PUSHBUTTON, GREEN, 22mm, 1-NO,1-NC
12	2	3SB3601-0BA21	SIEMENS	PUSHBUTTON, RED, 22mm, 1-NO,1-NC
13	1	3SB3601-2KA11	SIEMENS	2 POSITION SELECTOR SWITCH, 1-NO, 1-NC
14	1	3SB3608-2DA11	SIEMENS	3 POSITION SELECTOR SWITCH, 1-NO, 1-NC
15	1	VBHM1	SIEMENS	MAX FLEX FLANGE MTD. DISCONNECT HANDLE
16	1	FHOECO36	SIEMENS	36" CABLE FOR MAX FLEX DISCONNECT HANDLE
17	1	RAI-SAC-201	ASI	CONVENIENCE OUTLET AND RS45 CONNECTOR
18	2	S1112	LAPP	STRAIN RELIEF CABLE GLAND, 1/2" NPT THREADS
19	2	S1134	LAPP	STRAIN RELIEF CABLE GLAND, 3/4" NPT THREADS
20	1	S1101	LAPP	STRAIN RELIEF CABLE GLAND, 1" NPT THREADS
21	1	ACS/H-CP EXT	ABB	ADVANCED REMOTE KEYPAD MOUNT
22	1			A&E ENGINEERING PHENOLIC NAMEPLATE
23	1	3SB3921-OAD	SIEMENS	E-STOP LEGEND PLATE
24	1	L21-20P	HUBBLE	5 PIN MALE TWIST-LOCK PLUG, 20A.

NOTES:						
REV. NO.	PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE
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<div>Engineering • Inc 805 Suburban Park Drive Greer, SC 29651 864-927-6400</div>						
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PROJECT: SPARTANBURG COMMUNITY COLLEGE VFD - PLC TRAINING PANELS						
PROJECT NO.: 14.41900.0						
DRAWN: A&E	CHK'D: JCN	APP'D: .				
SCALE: NTS		DATE: 12/17/14				
SPARTANBURG COMMUNITY COLLEGE TRAINING CONTROL PANEL ASSEMBLY						REV
DRAWING NUMBER SCC-TCP-2001						0



TOP VIEW



LEFT SIDE VIEW

FRONT VIEW

SEE ENLARGED PANEL LAYOUT
ON SHEET SCC-TCP-1005

BILL OF MATERIAL				
ITEM #	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION
1	1	SPP-4836	SCHAEFER'S	SUB-PANEL 45 X 33
2	1	VBNFS361	SIEMENS	DISCONNECT SWITCH, NON-FUSIBLE
3	1	ACS355-03U-02A-2+J400+K454	ABB	3HP, 240V, DRIVE, FIELDBUS PROFIBUS DP
4	2	3NW7513-0HG	SIEMENS	30A, 1 POLE, CLASS CC FUSEBLOCK, 600V
5	3	EDCC 20	EDISON	CLASS CC FUSE, 20 AMP
6	1	6EP1334-2BA20	SIEMENS	24VDC POWER SUPPLY, SITOP SMART, 10A
7	1	6ES7215-1HG31-0XB0	SIEMENS	SIMATIC S7-1200, COMPACT CPU
8	1	6ES7243-5DX30-0XE0	SIEMENS	COMMUNICATION MODULE FOR SIMATIC S7-1200
9	1	6ES7972-0BB52-0XA0	SIEMENS	PROFIBUS DP CONNECTOR
10	2	55.34.9.024.0090	FINDER	4P2T RELAY, 24VDC COIL,
11	2	9474	FINDER	RELAY BASE, DIN RAIL MOUNT
12	2	3NW7533-0HG	SIEMENS	FUSE BASE, CLASS CC, 3 POLE
13	3	HCLR10	EDISON	10 AMP FAST ACTING FUSE
14	2	3240198	PHOENIX	WIRE DUCT, 40mm X 80mm, 6 FT. W/ COVER
15	2	3240200	PHOENIX	WIRE DUCT, 60mm X 80mm, 6 FT. W/ COVER
16	4	0801733	PHOENIX	DIN RAIL, NS35/7.5 X 6 FT.
17	20	3031364	PHOENIX	FEED-THROUGH TERMINAL BLOCK, ST4
18	4	3031384	PHOENIX	UNIVERSAL GROUND TERMINAL BLOCK, ST4-PE
19	20	3030420	PHOENIX	END COVER, D-UT 2.5/10
20	25	3022218	PHOENIX	END CLAMP, CLIPFIX 35
21	156	3031377	PHOENIX	FEED-THROUGH TERMINAL BLOCK, ST4 BU
22	2	HG61234	SIEMENS	EQUIPMENT GROUND LUG KIT
23	1	5SU41110-7HG42	SIEMENS	MINIATURE CIRCUIT BREAKER, 10A, 1 POLE
24	1	3RA2210-1BA15-2BB4	SIEMENS	SIZE 0, COMBINATION MOTOR STARTER, REV.
25	2	3RT2916-1BB00	SIEMENS	RC ELEMENT FOR COIL
26	2	99.01.0.024.09	FINDER	RC ELEMENT FOR 24VDC COIL
27	1	EDCC 4	EDISON	CLASS CC 4 AMP FUSE
28	1	EDCC 5	EDISON	CLASS CC 5 AMP FUSE
29	2	3RH2911-1FA40	SIEMENS	FRONT MOUNT AUX CONTACT, 4 N/O

NOTES:		REV. NO.		PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE	SPARTANBURG COMMUNITY COLLEGE TRAINING CONTROL PANEL SUB-PANEL ASSEMBLY		REV
		0			ISSUED FOR RECORD	A&E 12/17/14	JCN 12/17/14			DRAWING NUMBER SCC-TCP-2002		0



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PROJECT: SPARTANBURG COMMUNITY COLLEGE

PROJECT NO.: 14.41900.0

DRAWN: A&E

DATE: 12/17/14

SCALE: NTS

CHK'D: JCN

DATE: 12/17/14

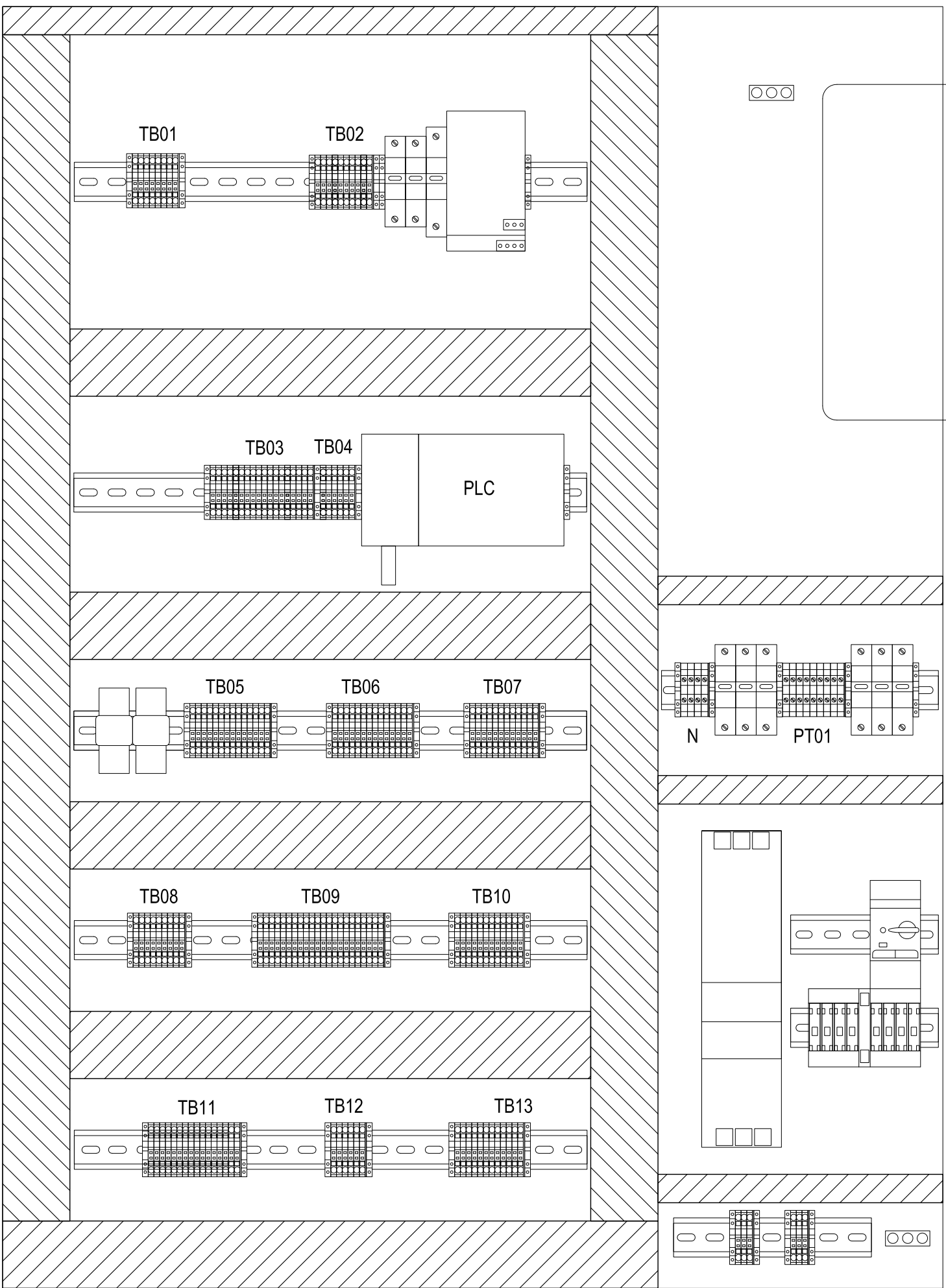
APP'D: .

SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
SUB-PANEL ASSEMBLY

DRAWING NUMBER
SCC-TCP-2002

REV


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VFD TO MOTOR F/R STARTER TO MOTOR

LEGEND	
ITEM	DESCRIPTION
TB01	ALARM LIGHTS
TB02	24VDC POWER SUPPLY
TB03	PLC DIGITAL INPUTS
TB04	PLC ANALOG INPUT/OUTPUT SIGNALS
TB05	24VDC RELAY 1
TB06	24VDC RELAY 2
TB07	PLC RELAY OUTPUTS
TB08	PROCESS SIGNAL / POTENTIOMETER
TB09	E-STOP DOOR LIGHTS AND PUSH BUTTONS
TB10	DOOR SWITCHES
TB11	ABB DRIVE X1A
TB12	ABB DRIVE X1B
TB13	ABB DRIVE XTC
PT01	208V DISTRIBUTION
VFD	VFD TO MOTOR
STR	F/R STARTER TO MOTOR
N	NEUTRAL
.	.

ENLARGED FRONT VIEW

[illegible]

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VFD - PLC TRAINING PANELS

PROJECT NO.: 14.41900.C

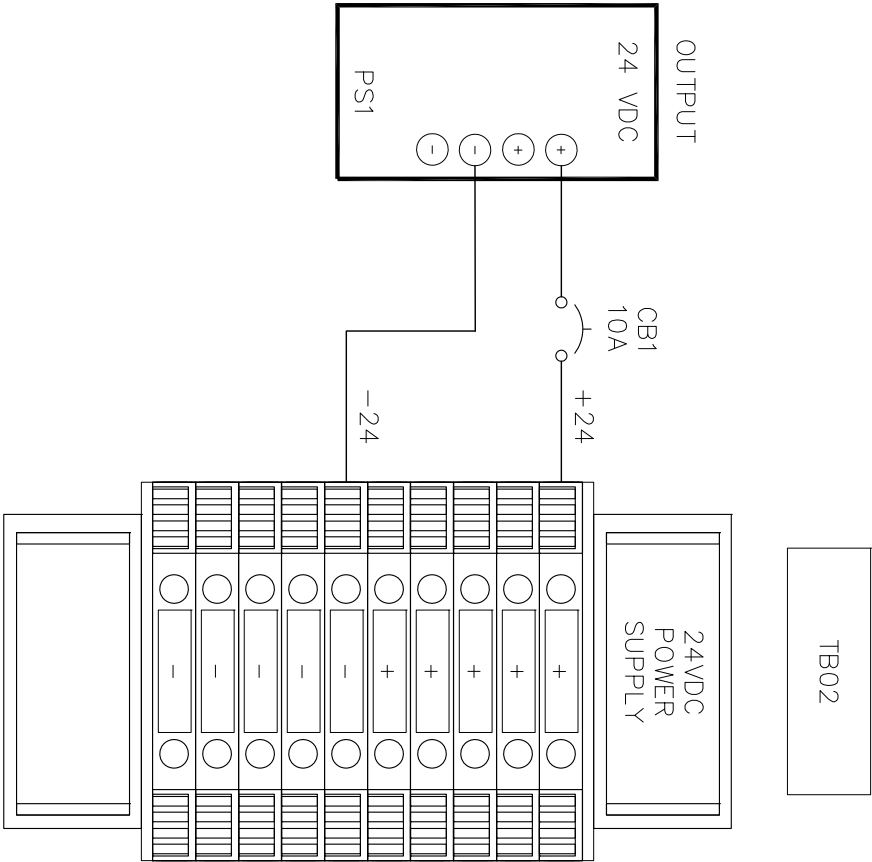
DRAWN: A&E	CHK'D: JCN	APP'D: .
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SCALE: NTS	DATE: 12/17/14
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SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
SUB-PANEL ASSEMBLY

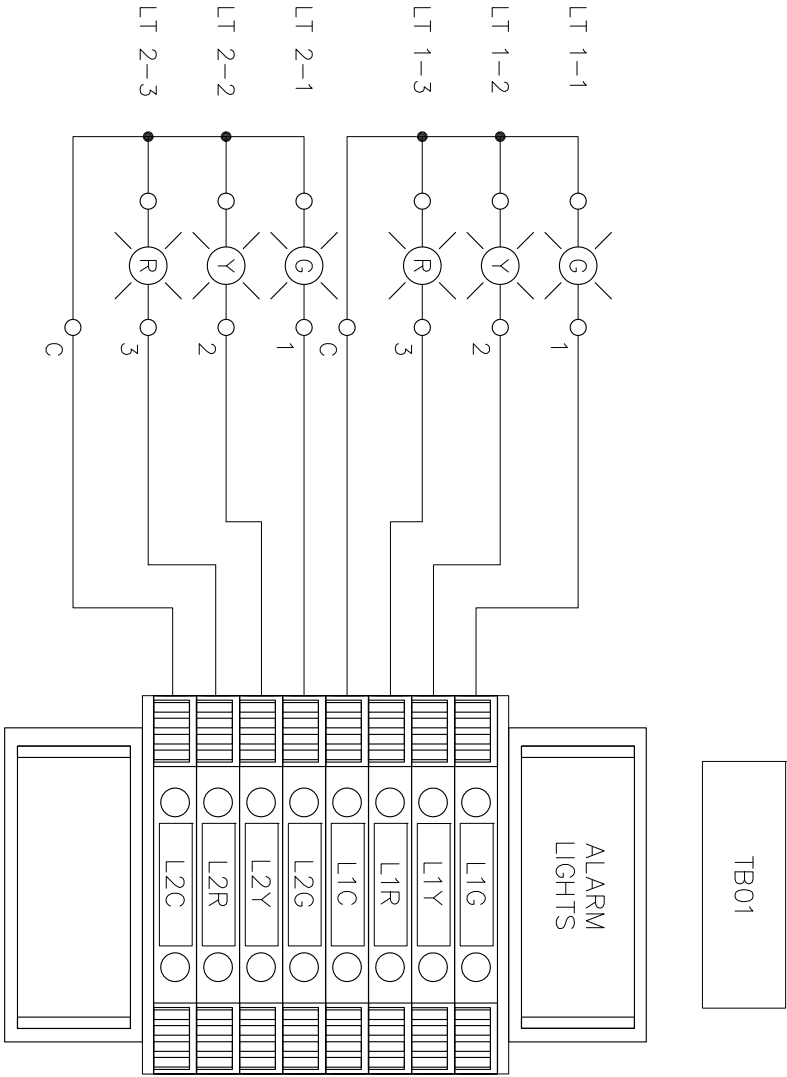
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SCC-TCP-2005


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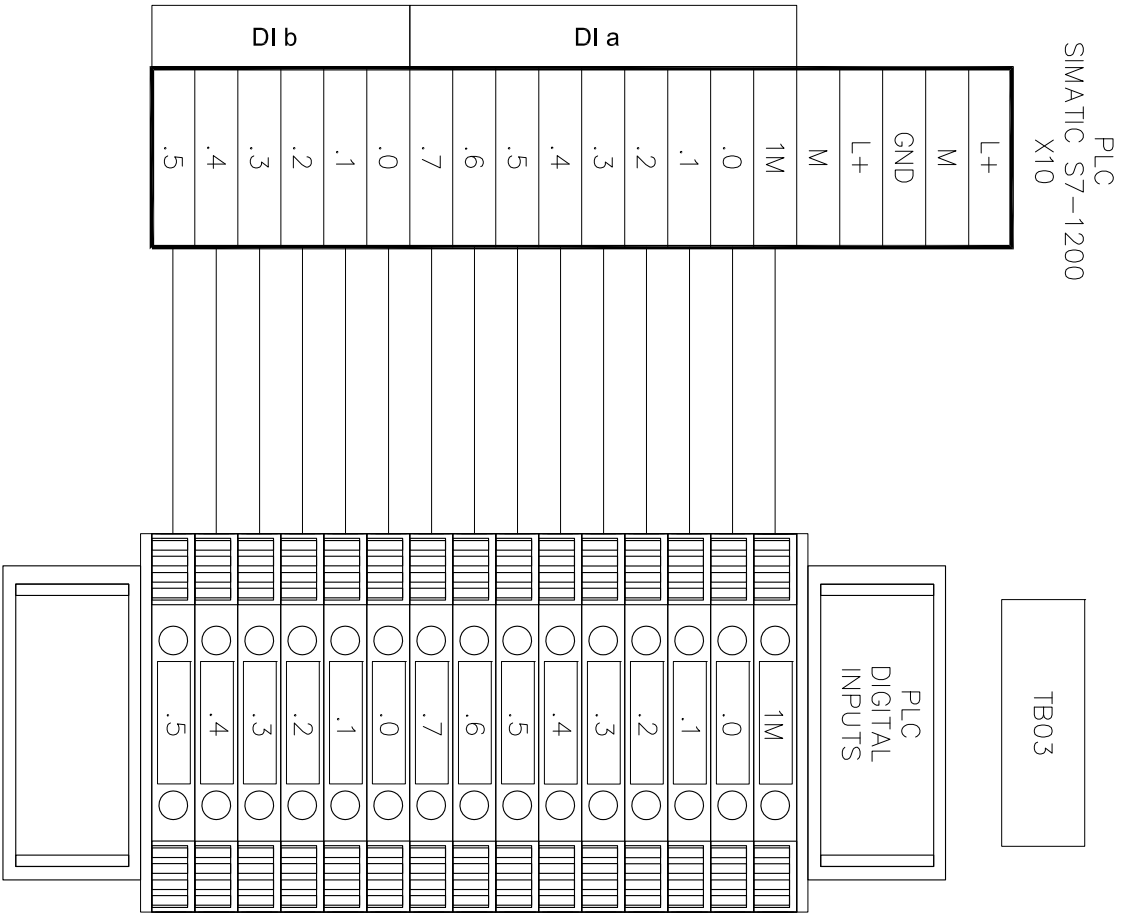
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	0		ISSUED FOR RECORD	A&E 12/17/14	JCN 12/17/14							0

SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
24VDC POWER SUPPLY




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	0	ISSUED FOR RECORD	A&E 12/17/14	JCN 12/17/14			0					

SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
ALARM LIGHTS

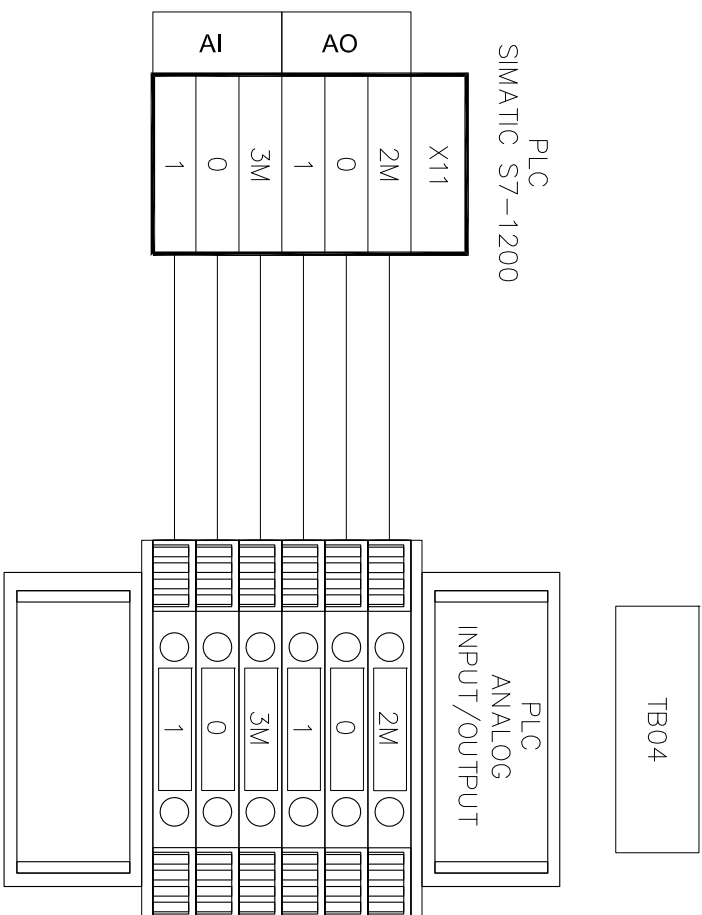


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PROJECT NO.: 14.41900.0

DRAWN: A&E	CHK'D: JCN	APP'D.
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SCALE: NTS DATE: 12/17/14

SPARTANBURG
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TRAINING CONTROL PANEL
PLC ANALOG SIGNALS

DRAWING NUMBER
SCC-TCP-2013

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VFD - PLC TRAINING PANELS

PROJECT NO.: 14.41900.0

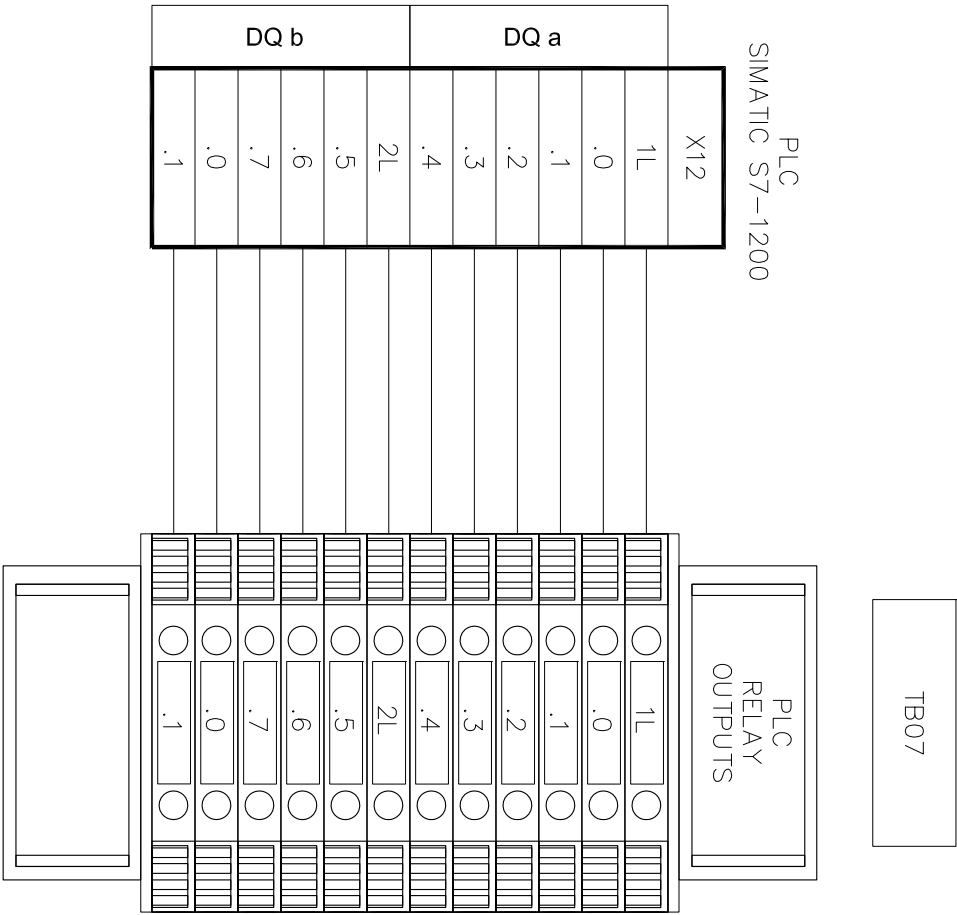
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SPARTANBURG
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TRAINING CONTROL PANEL
PLC ANALOG SIGNALS

DRAWING NUMBER
SCC-TCP-2013

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REV. NO.	PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE
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PROJECT NO.: 14.41900.0

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SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
PLC RELAY OUTPUTS

DRAWING NUMBER
SCC – TCP – 2014

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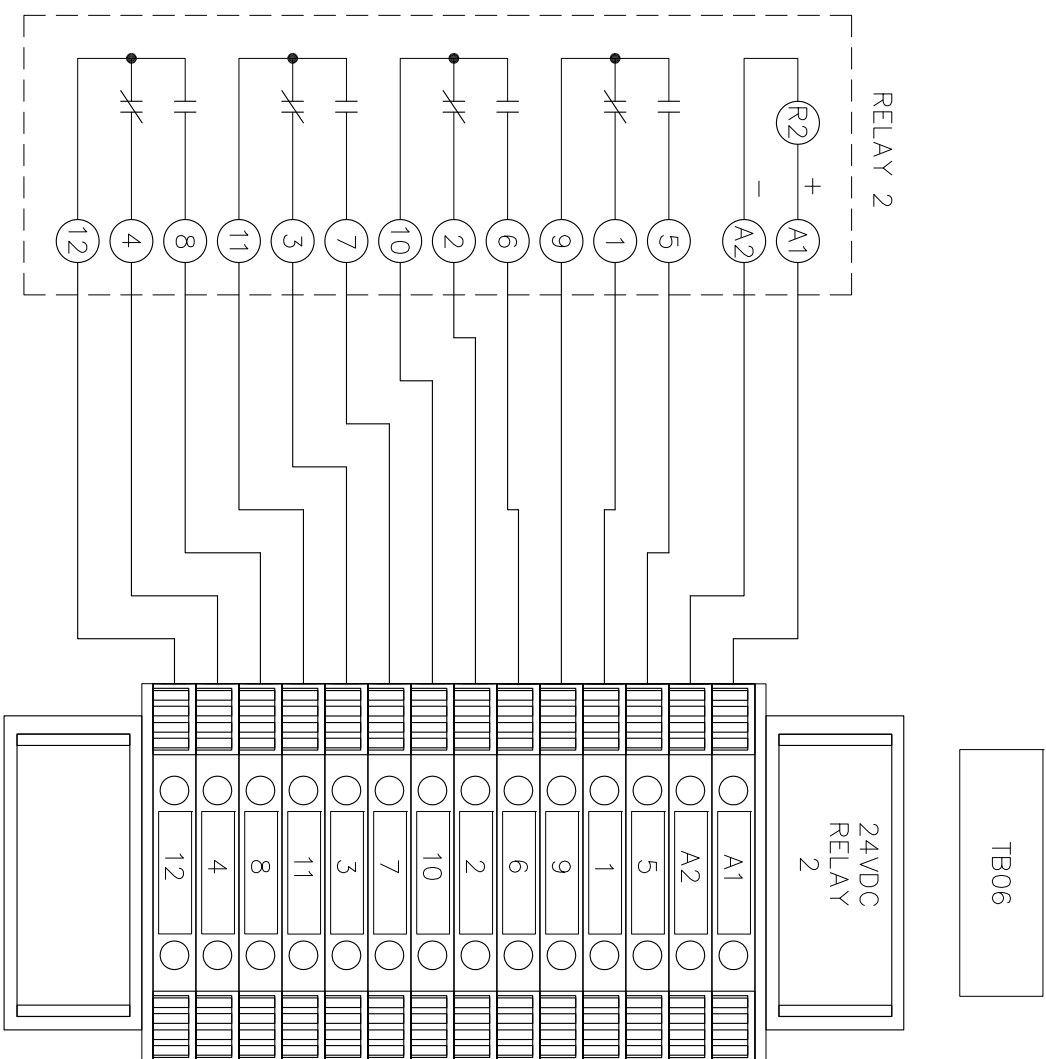
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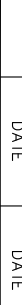
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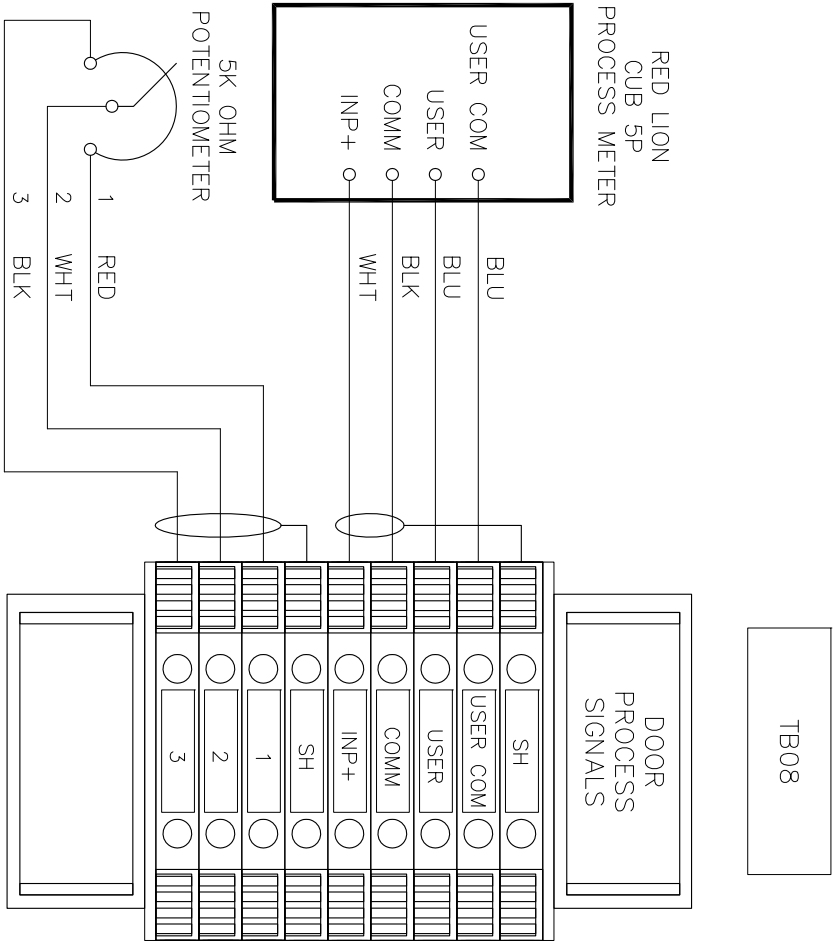
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SPARTANBURG COMMUNITY COLLEGE TRAINING CONTROL PANEL 24VDC RELAY 2						DRAWING NUMBER SCC-TCP-2016
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REV. NO.		PROJECT NO.		DESCRIPTION		DRAWN BY DATE		CHECKED BY DATE		DESIGN ENG. DATE		PROJECT ENG. DATE	
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PROJECT: SPARTANBURG COMMUNITY COLLEGE

PROJECT NO.: 14.41900.0

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CHK'D: JCN

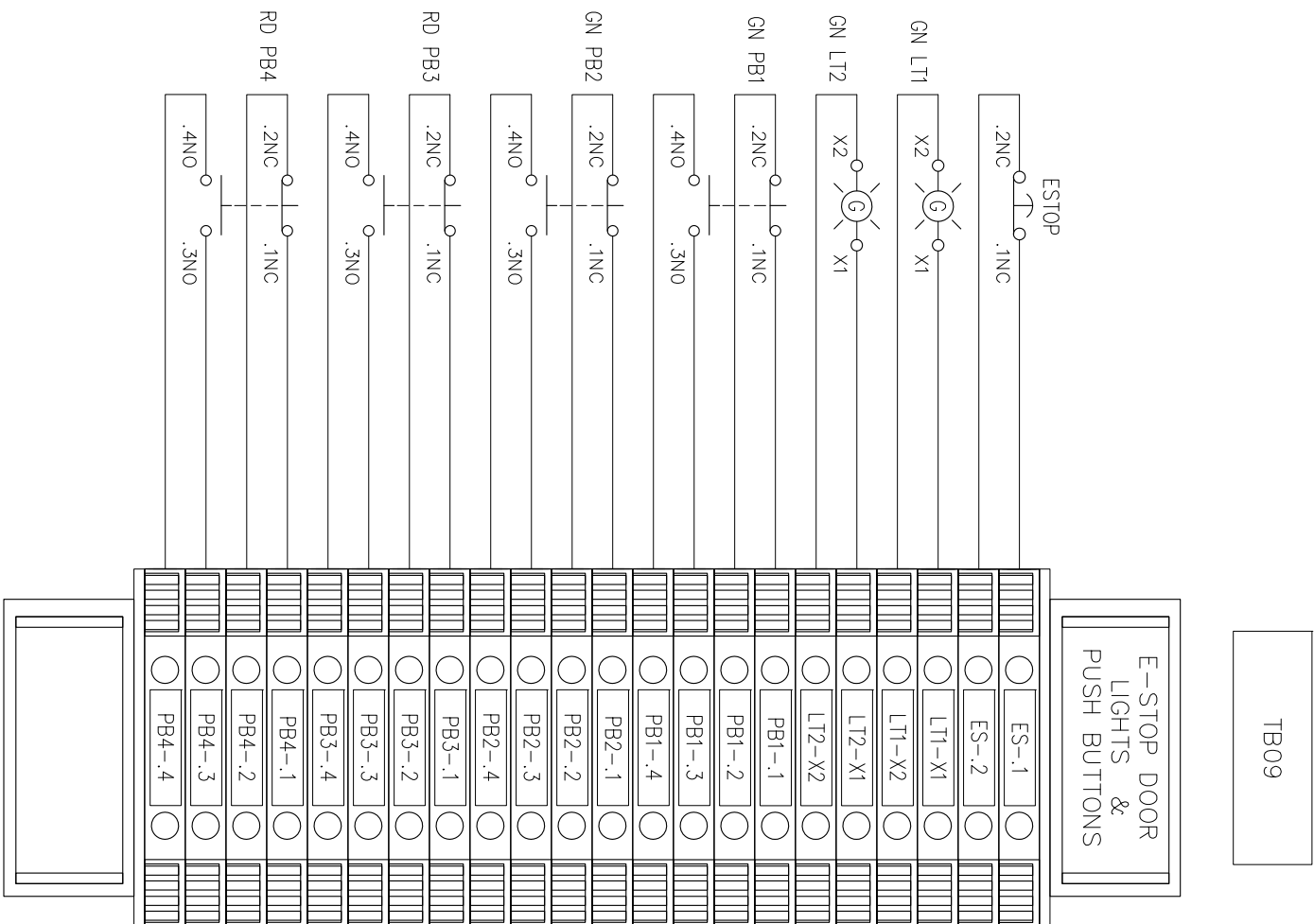
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SCC – TCP – 2017

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PROJECT NO.: 14.41900.0
DRAWN: A&E **CHK'D:** JCN **APP'D.:** _____
SCALE: NTS **DATE:** 12/17/14

SPARTANBURG COMMUNITY COLLEGE

TRAINING CONTROL PANEL

E-STOP DOOR LIGHTS &

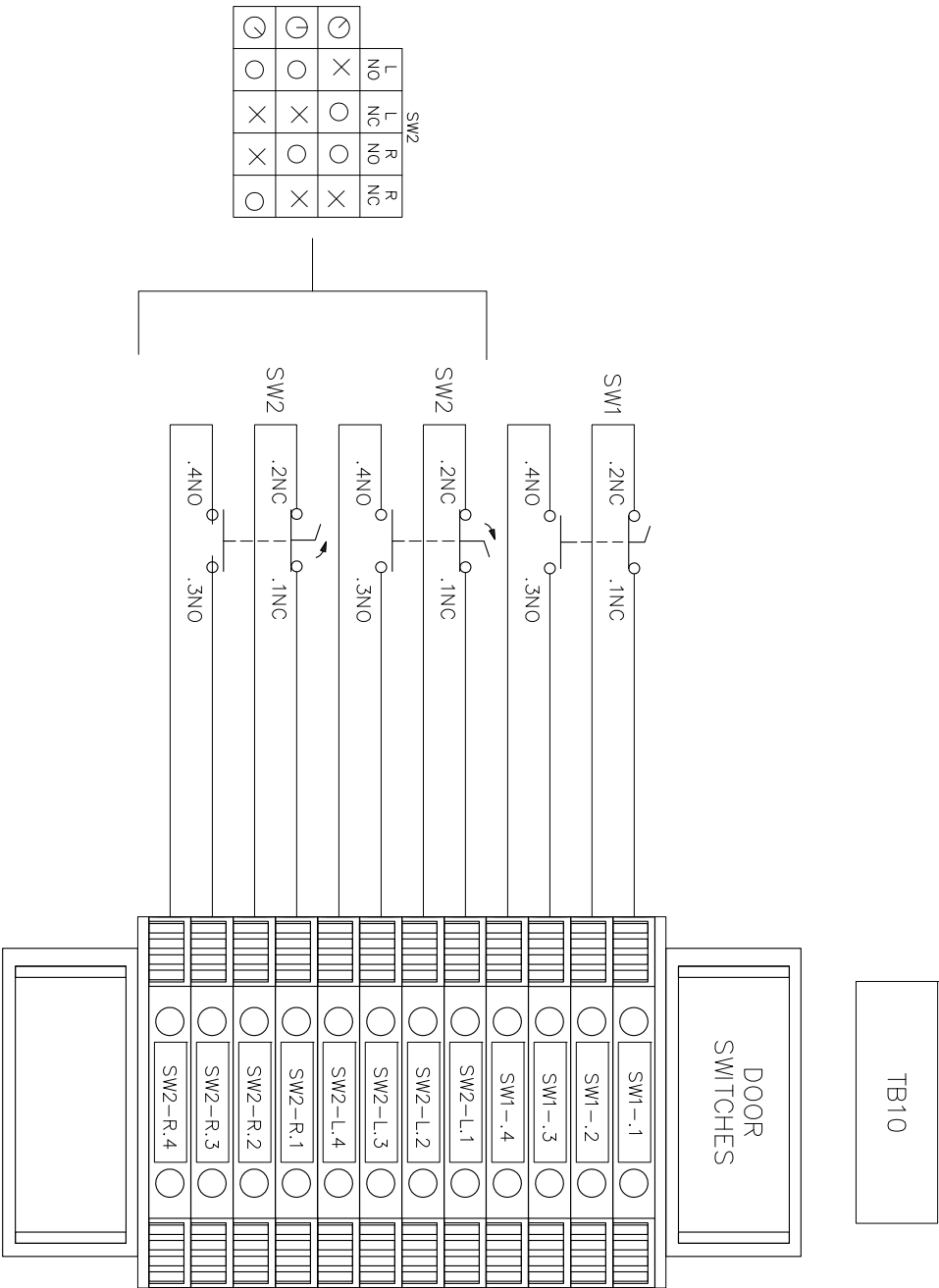
PUSH BUTTONS

DRAWING NUMBER


SCC-TCP-2018

REV

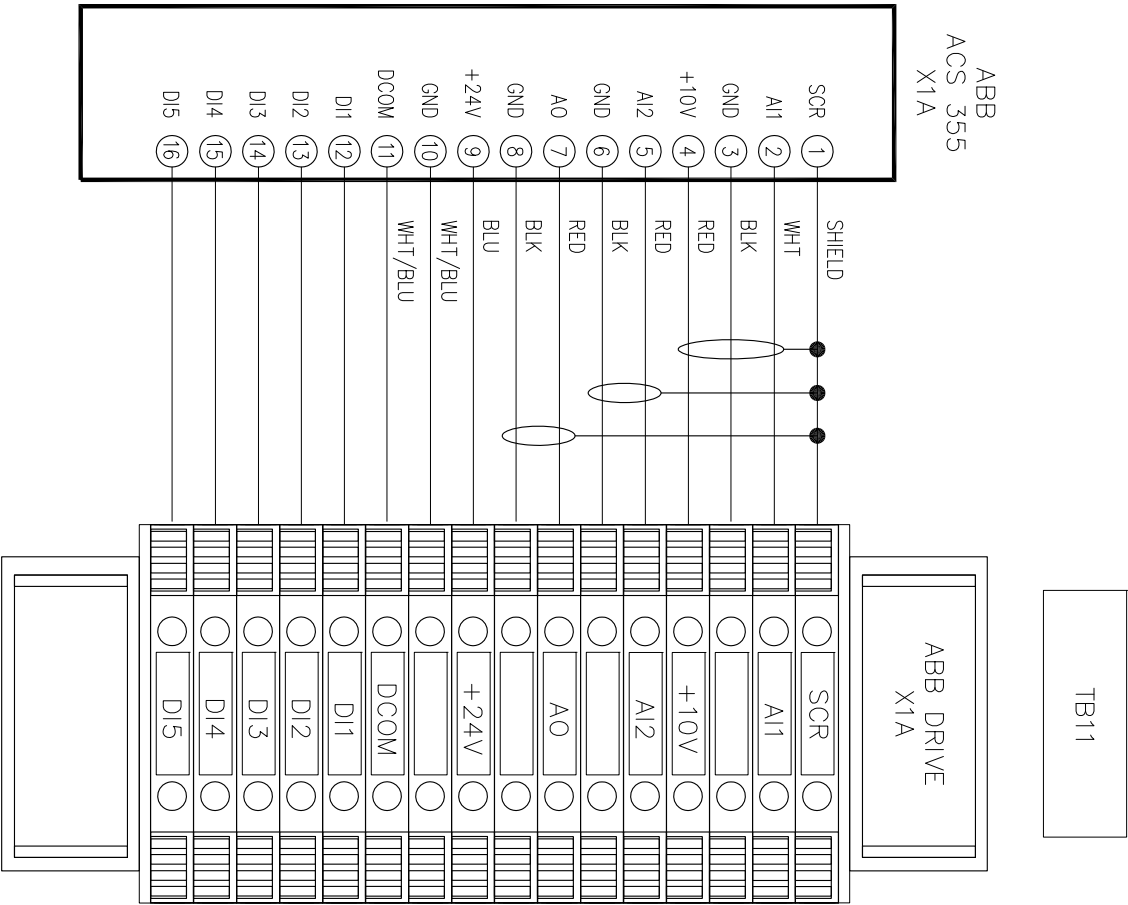
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0				ISSUED FOR RECORD		A&E 12/17/14		JCN 12/17/14					

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		CHK'D: JCN DATE: 12/17/14												APP'D: .		

SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
DOOR SWITCHES



REV. NO.		PROJECT NO.		DESCRIPTION		DRAWN BY DATE		CHECKED BY DATE		DESIGN ENG. DATE		PROJECT ENG. DATE	
0				ISSUED FOR RECORD		A&E 12/17/14		JCN 12/17/14					



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PROJECT: SPARTANBURG COMMUNITY COLLEGE

PROJECT NO.: 14.41900.0

DRAWN: A&E

SCALE: NTS

CHK'D: JCN

DATE: 12/17/14

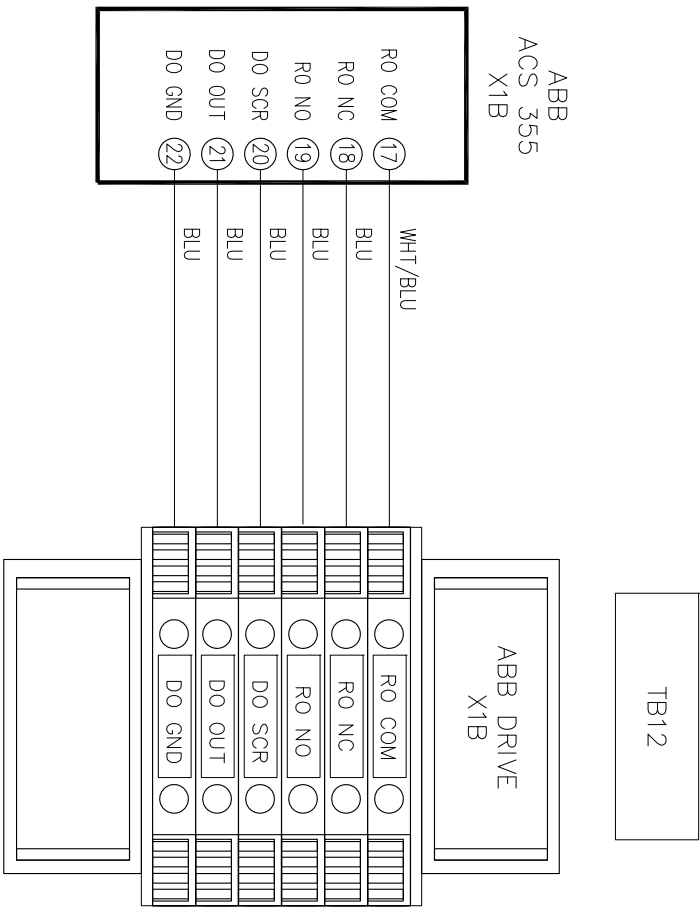
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DRAWING NUMBER


SCC – TCP – 2020

REV

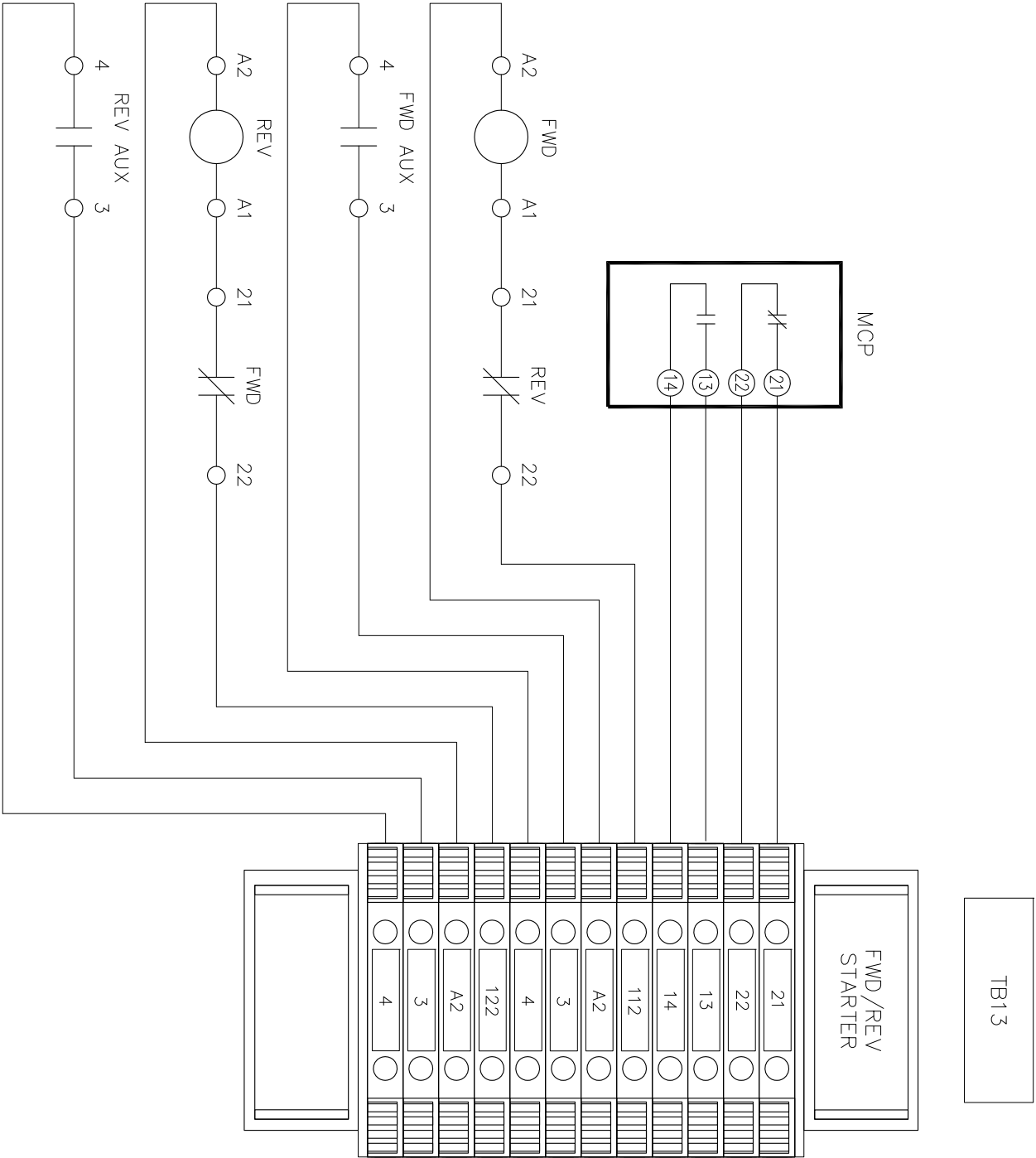
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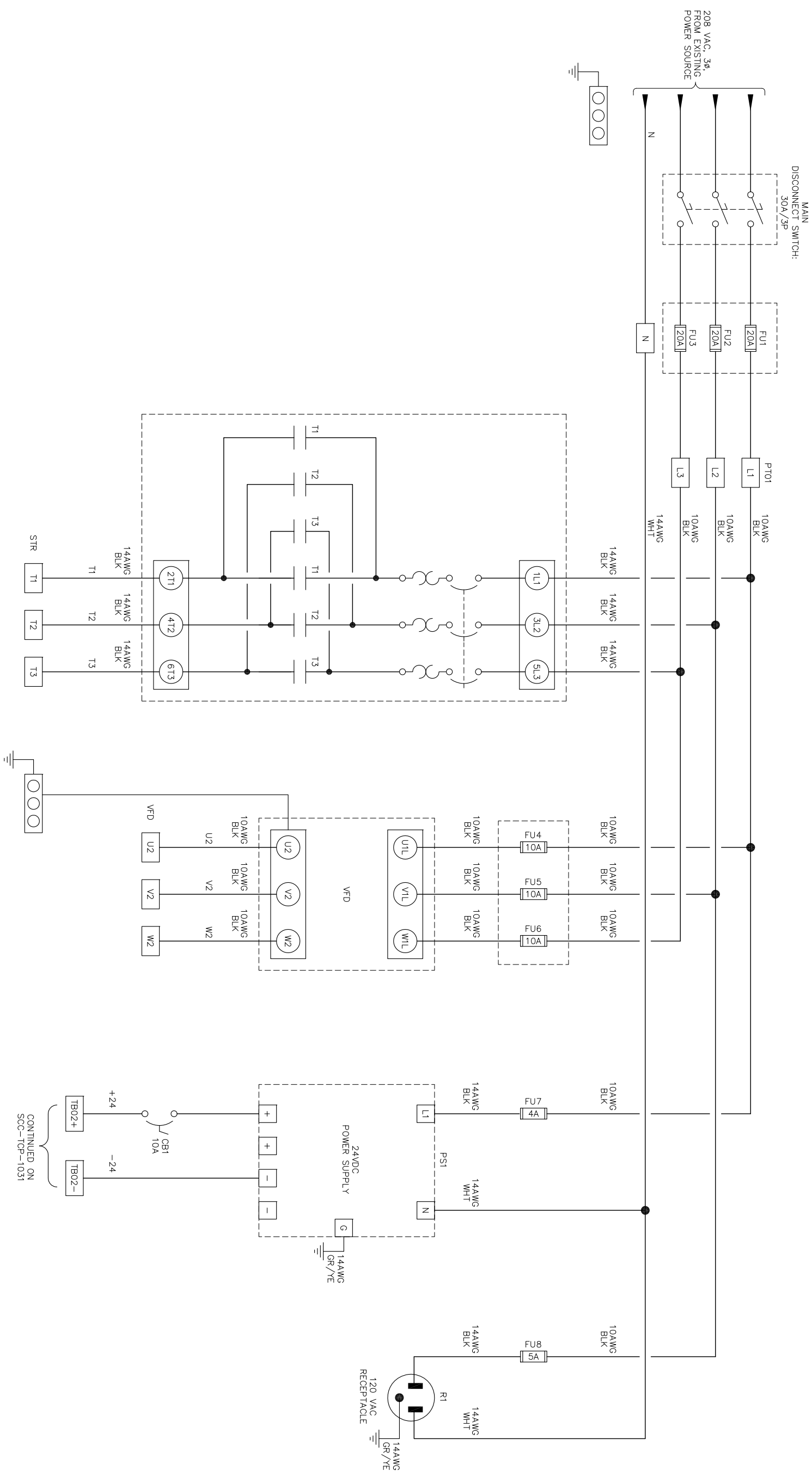
REV. NO.	PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE
0		ISSUED FOR RECORD	A&E 12/17/14	JCN 12/17/14		

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REV. NO.	PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE
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REV. NO.	PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE
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WFD – PLC TRAINING PANELS

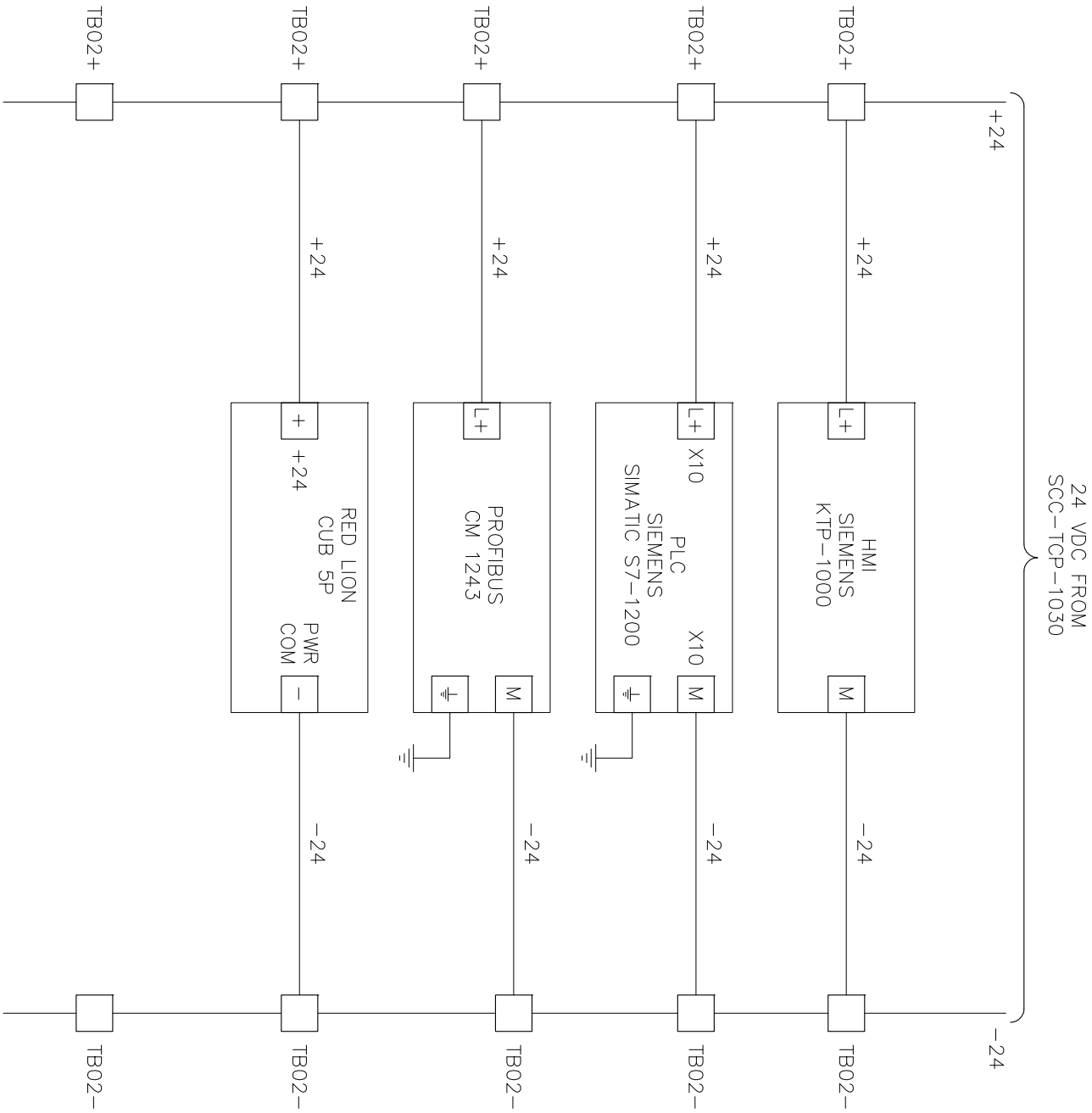
PROJECT NO.: 14.41900.0

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SCALE: NTS DATE: 12/7/14

SPARTANBURG
COMMUNITY COLLEGE
TRAINING CONTROL PANEL
ELEMENTARY

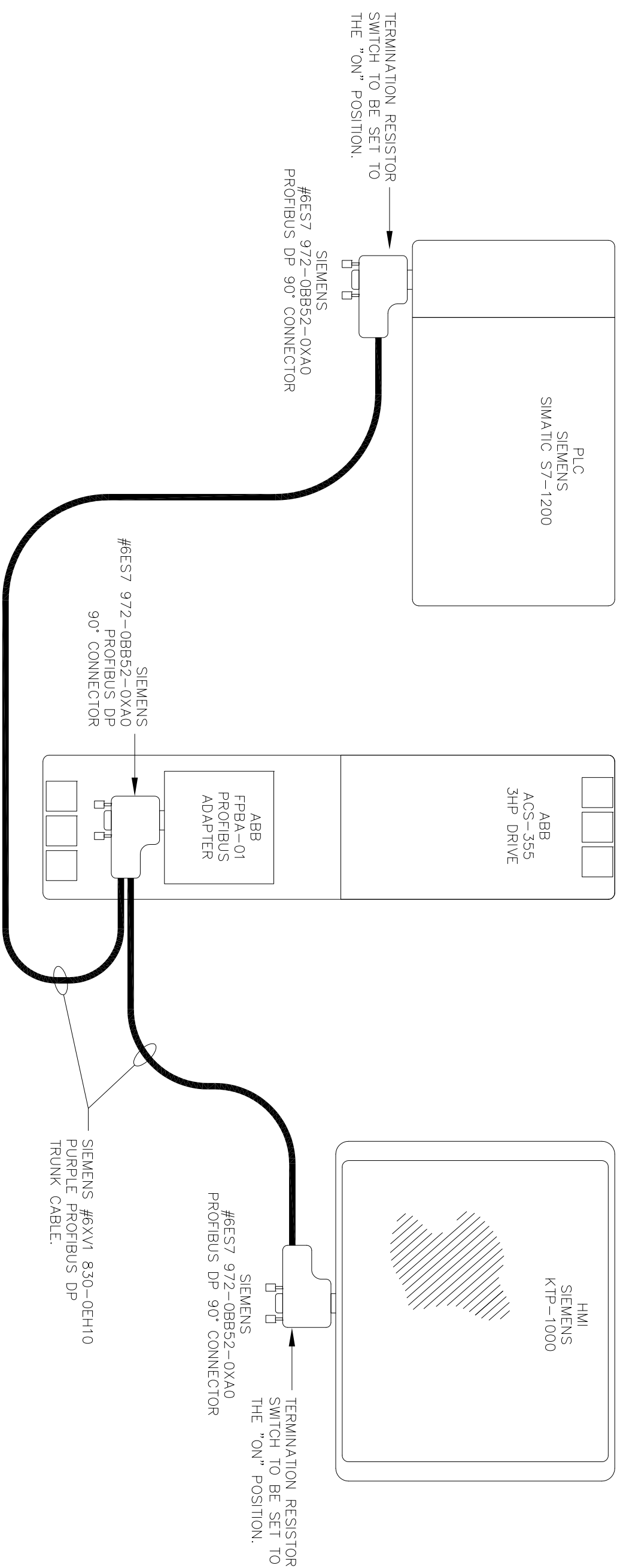
DRAWING NUMBER SCC-TCP-2030	REV 0
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DRAWN: A&E		CHK'D: JCN		APP'D: .			
SCALE: NTS		DATE: 12/17/14					

DRAWING NUMBER SCC-TCP-2031			SPARTANBURG COMMUNITY COLLEGE TRAINING CONTROL PANEL ELEMENTARY		REV 0
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DRAWN: A&E			CHK'D: JCN		APP'D: .					
SCALE: NTS			DATE: 12/17/14							
Engineering • Inc 805 Suburban Park Drive Greer, SC 29601 864-527-6400										
REV. NO.	PROJECT NO.	DESCRIPTION	DRAWN BY DATE	CHECKED BY DATE	DESIGN ENG. DATE	PROJECT ENG. DATE				
0		ISSUED FOR RECORD	A&E 12/17/14	JCN 12/17/14						