

REAR

FRONT

DESCRIPTION

2 BAVF BAVF BAR-CU IN X 1IN X 12FT

35 RFVE-D RFVE CIRCUIT BREAKER, AMB COMP, 2P, 30A

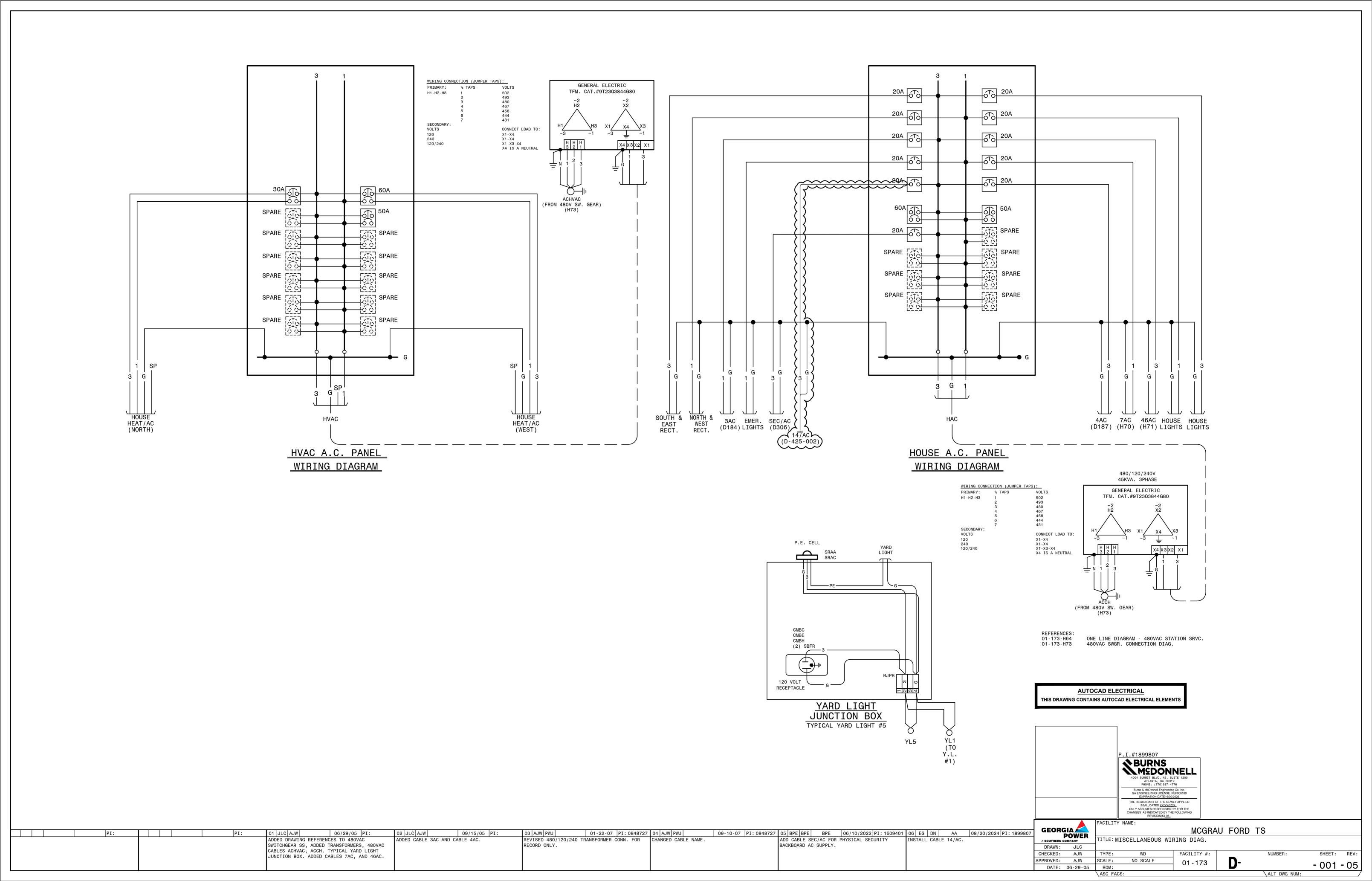
1 RFVG RFVG CIRCUIT BREAKER, AMB COMP, 2P, 100A

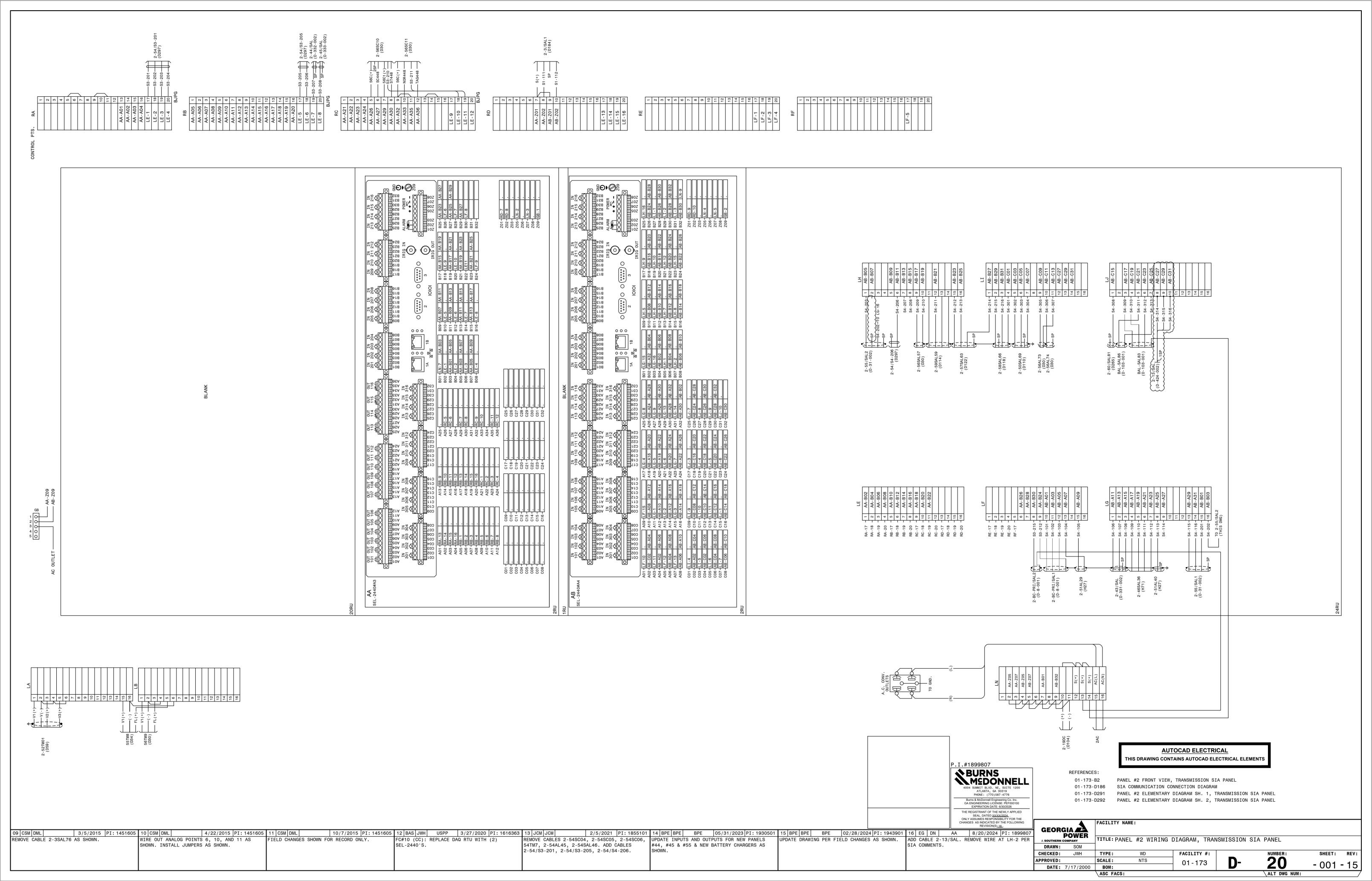
2 RFWH RFWH PANEL-BENELEX 402 28IN X 41IN X IN

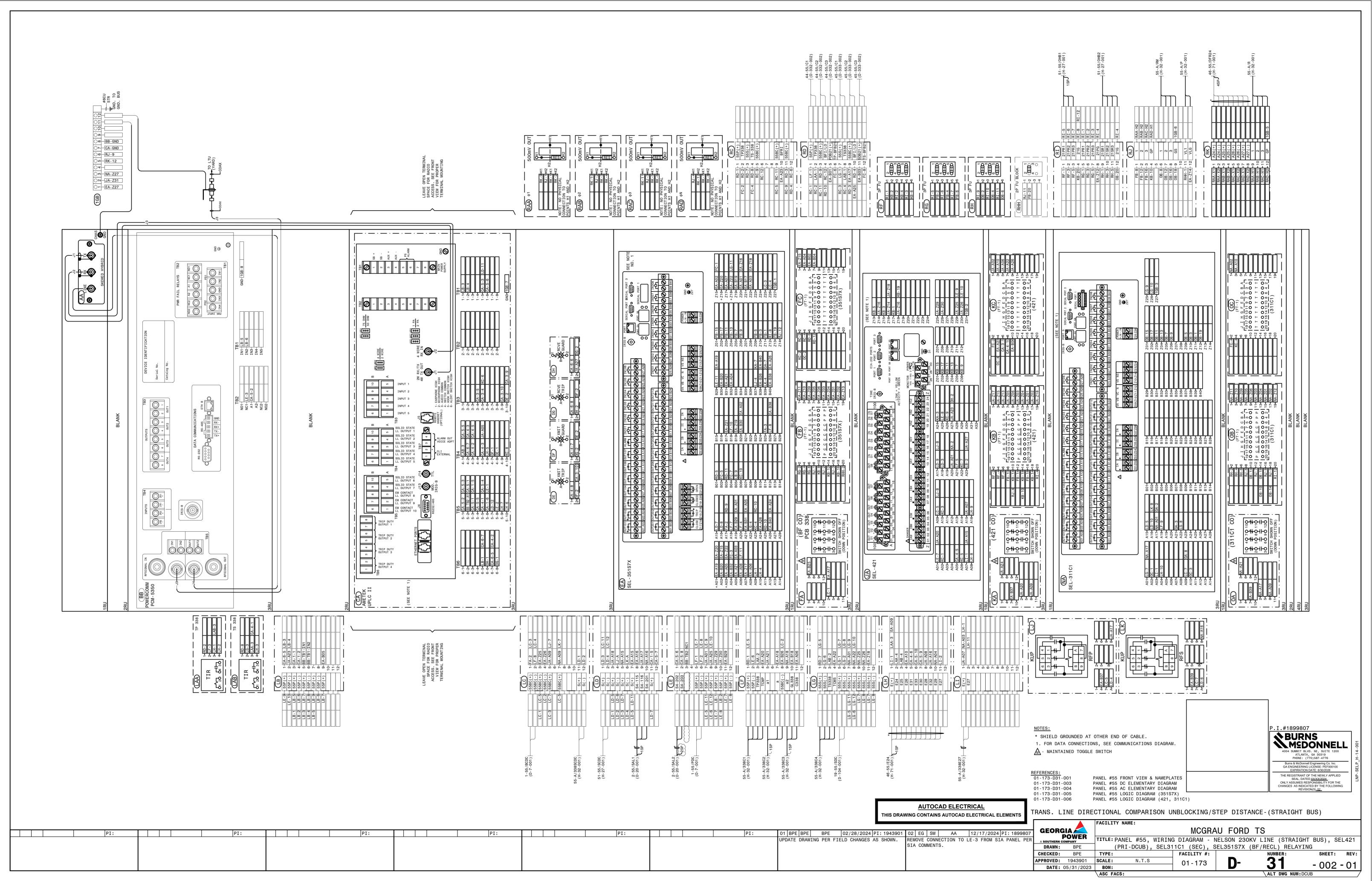
1 RGRG-D RGRG SWBD REAR DOOR, 29-3/4" X 90" 0-31-D1

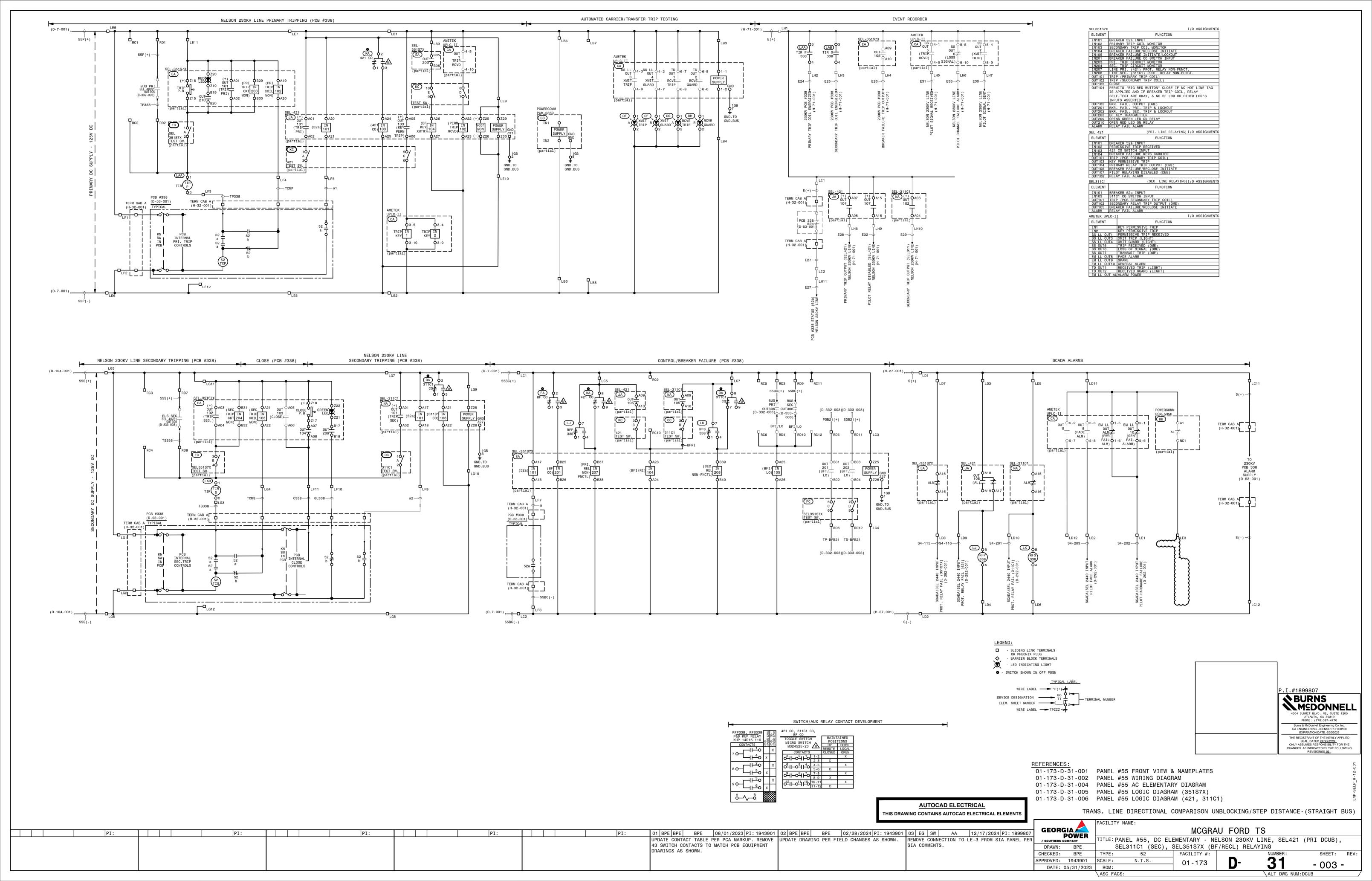
RGUT SWITCHBOARD ANGLE FRAME 30 X 90 X 23IN 0-31-D1

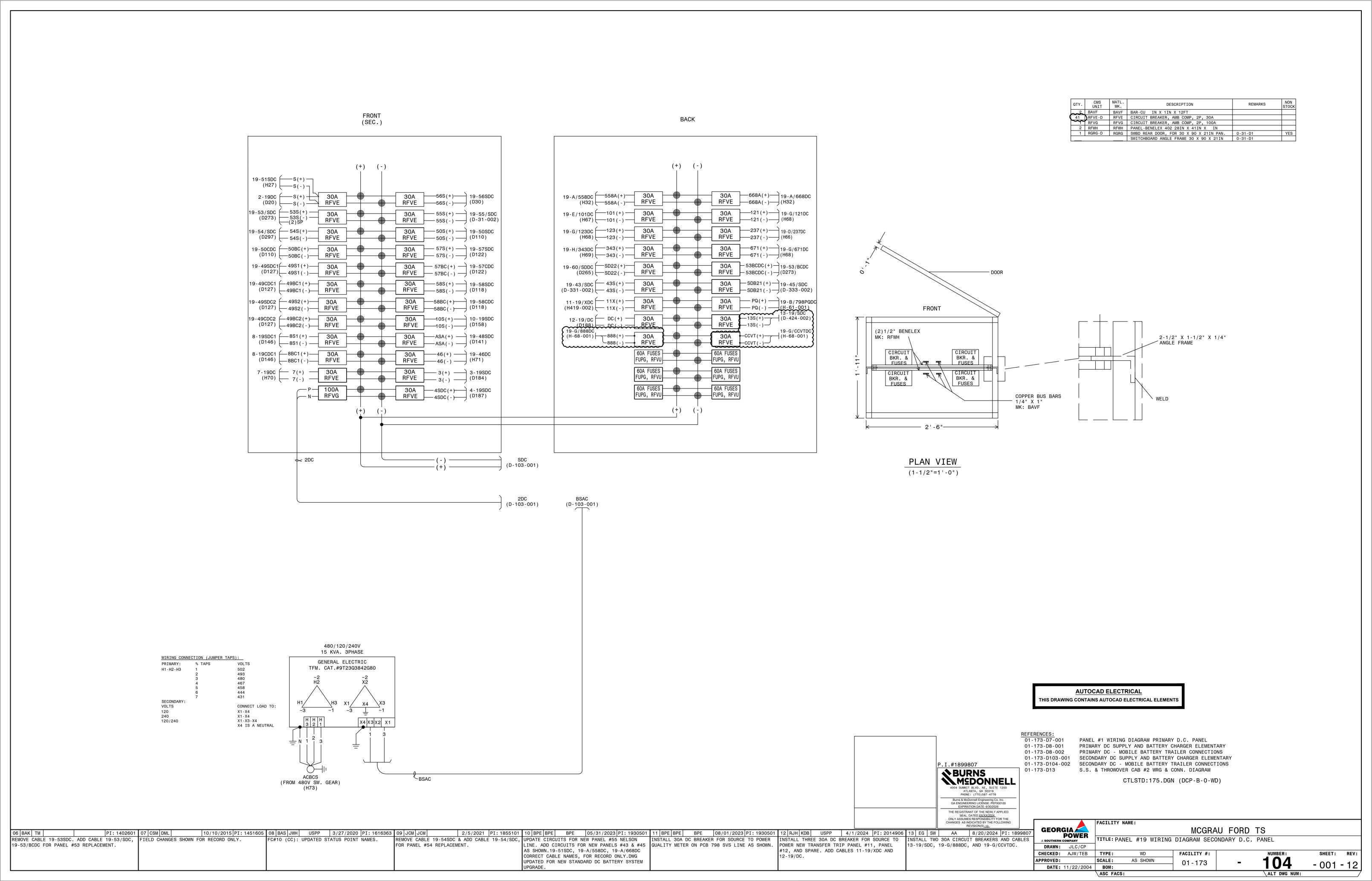
REMARKS

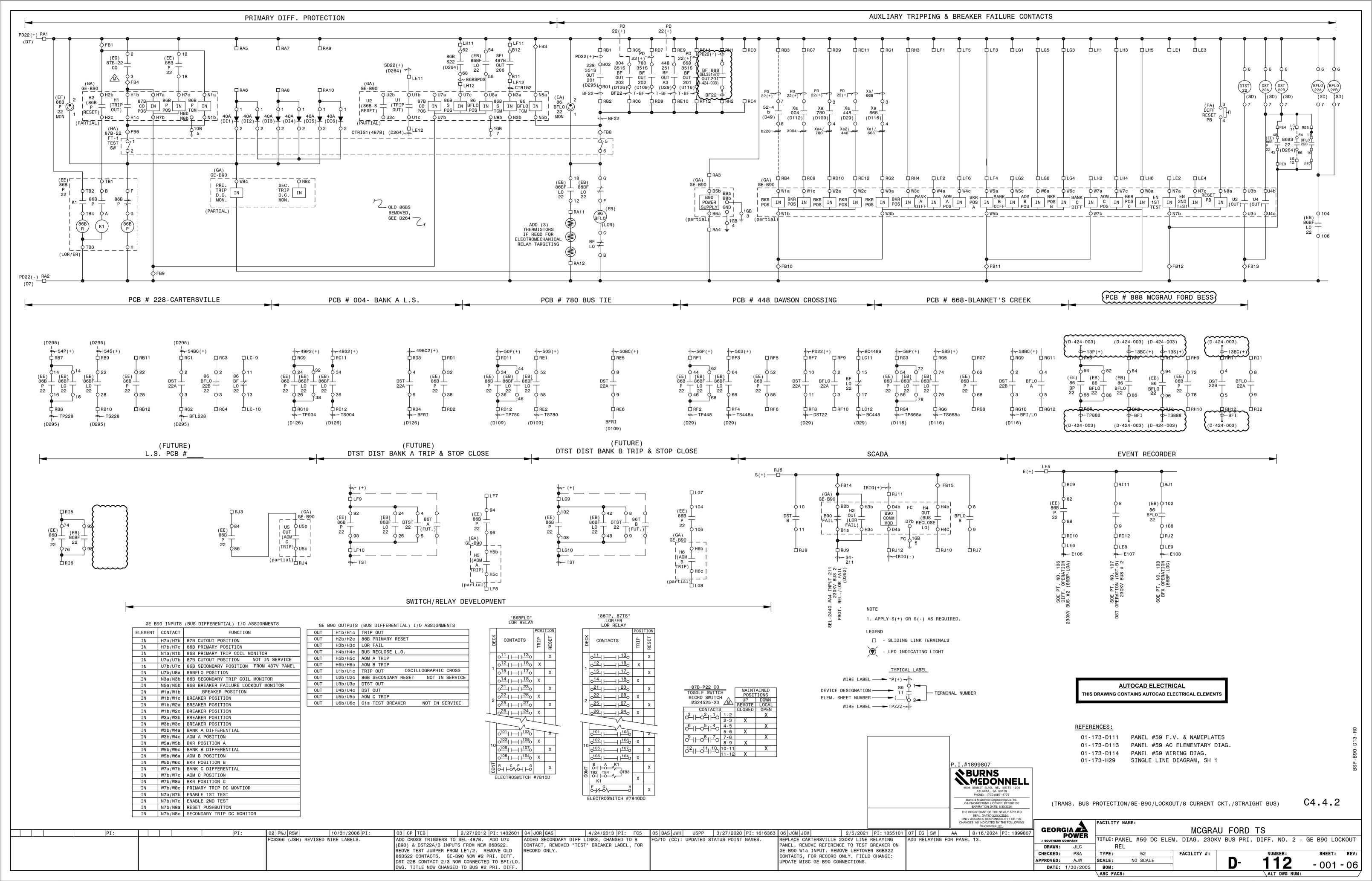


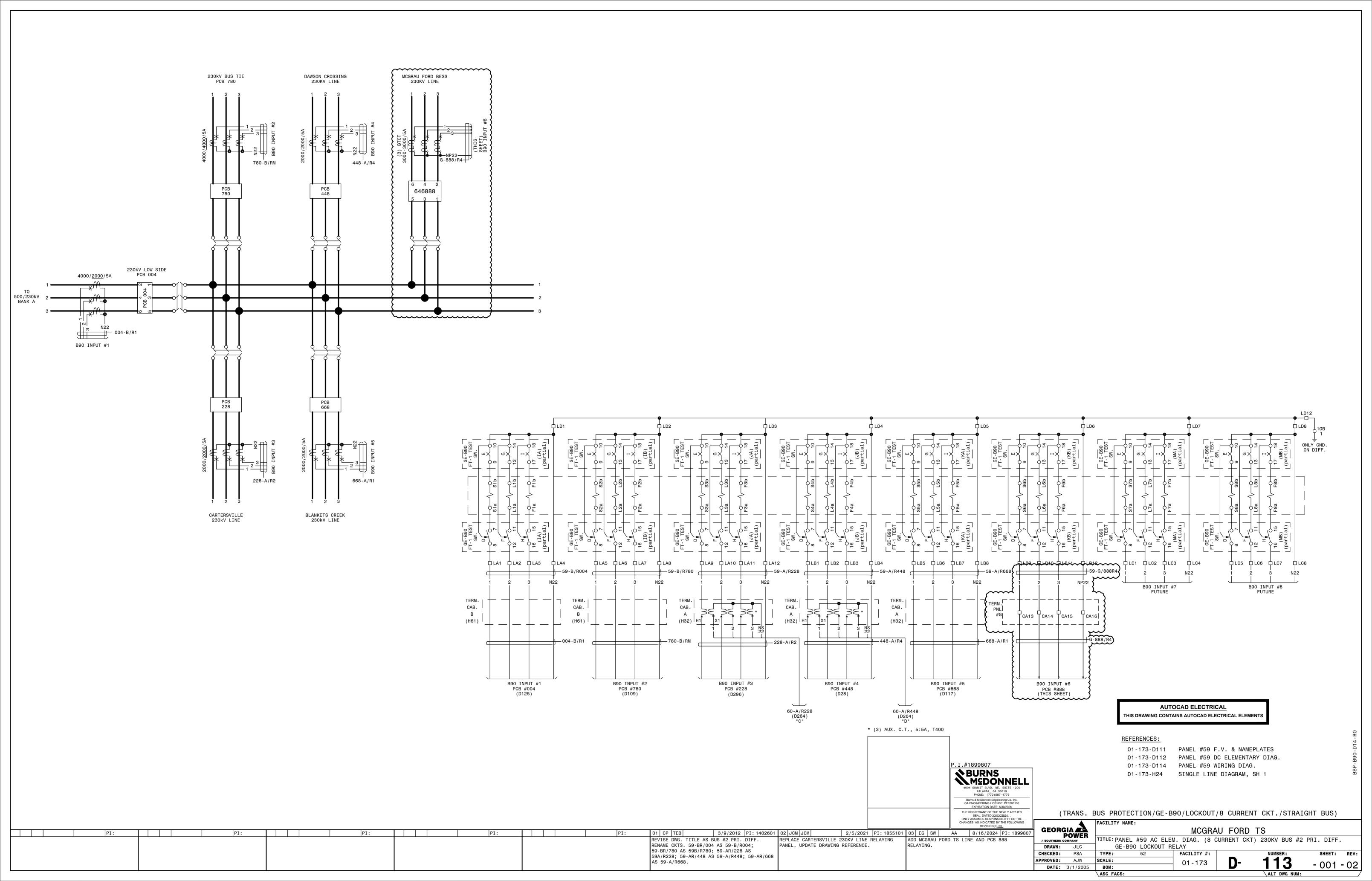


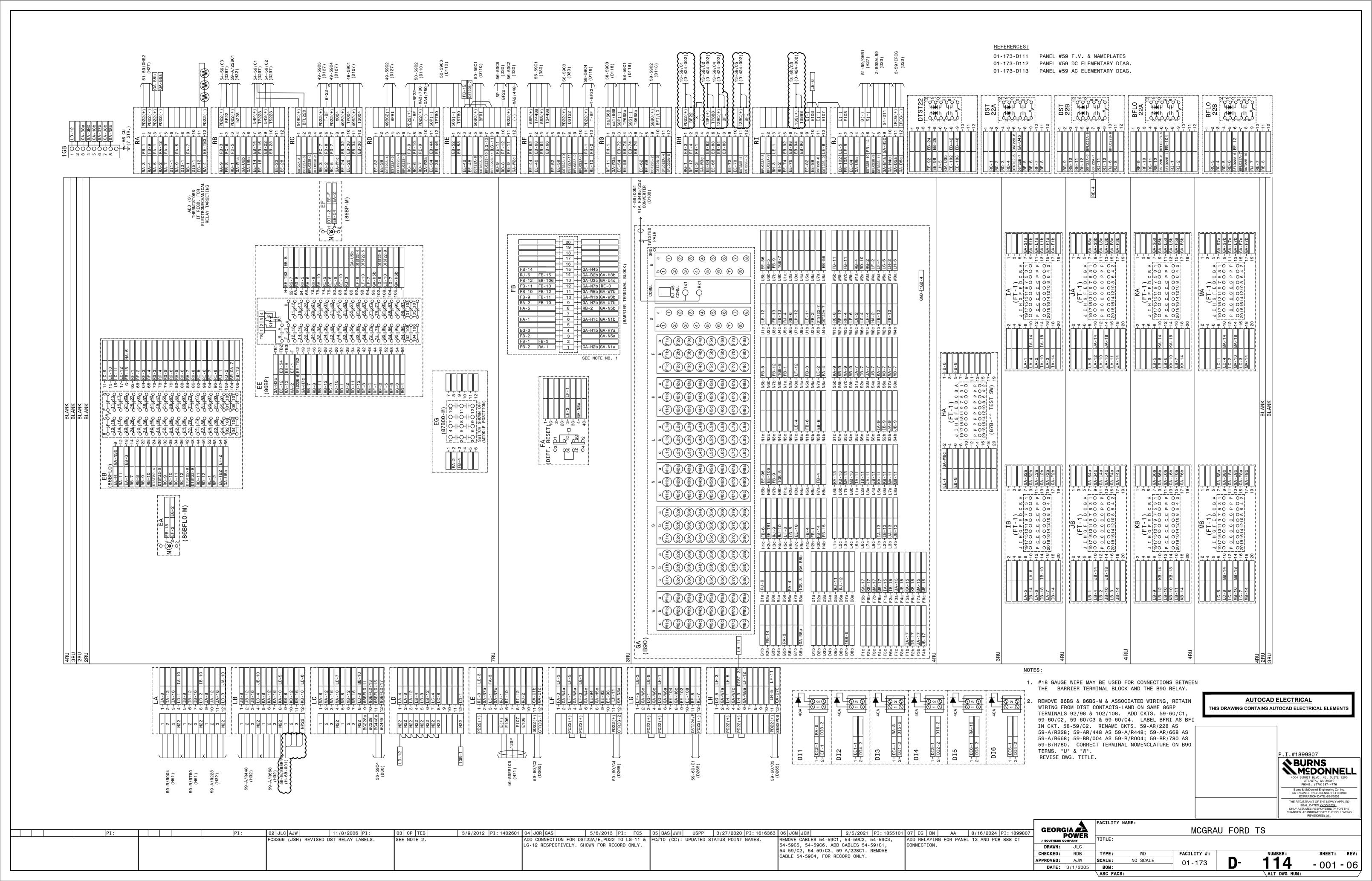


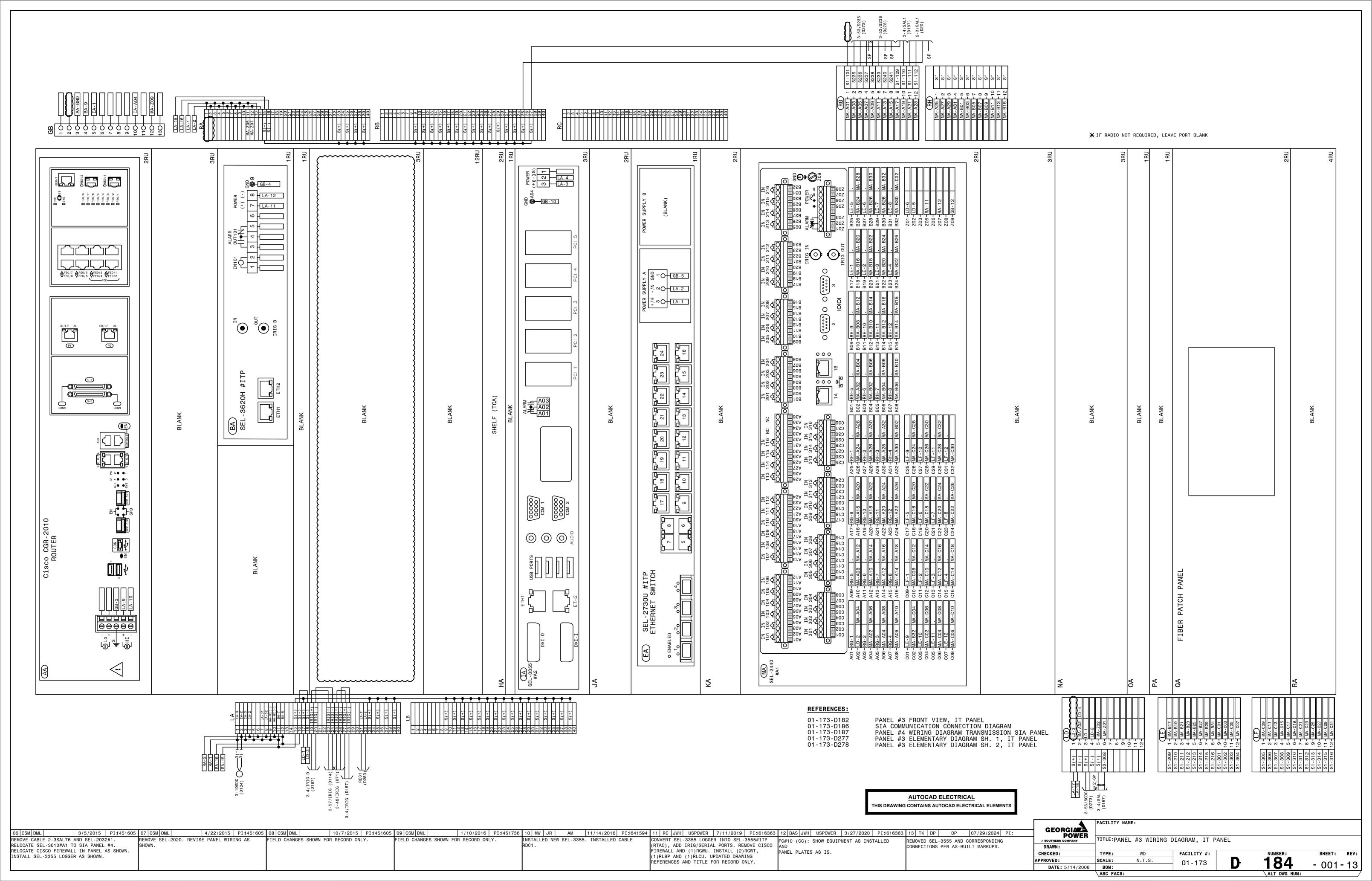


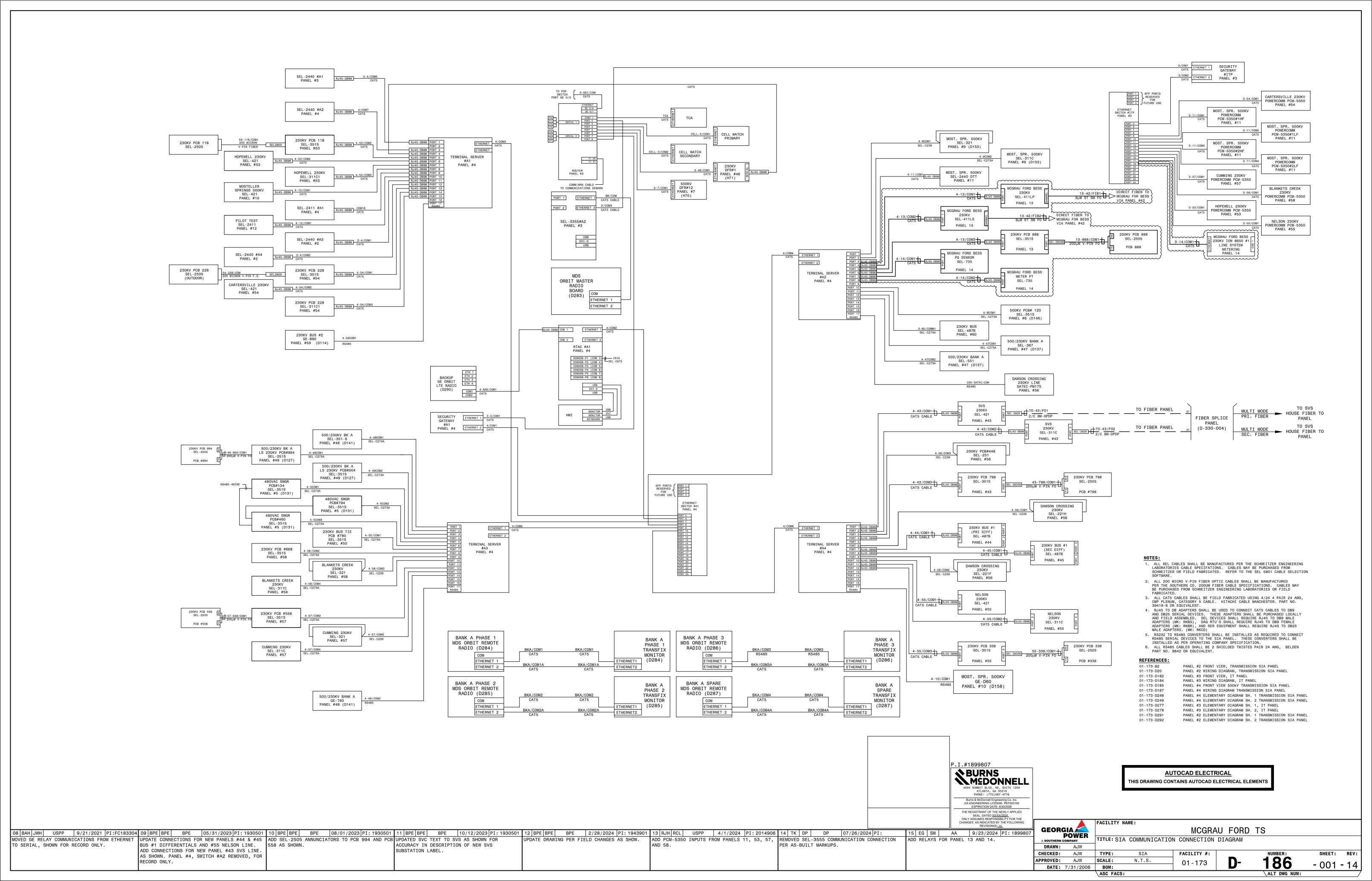


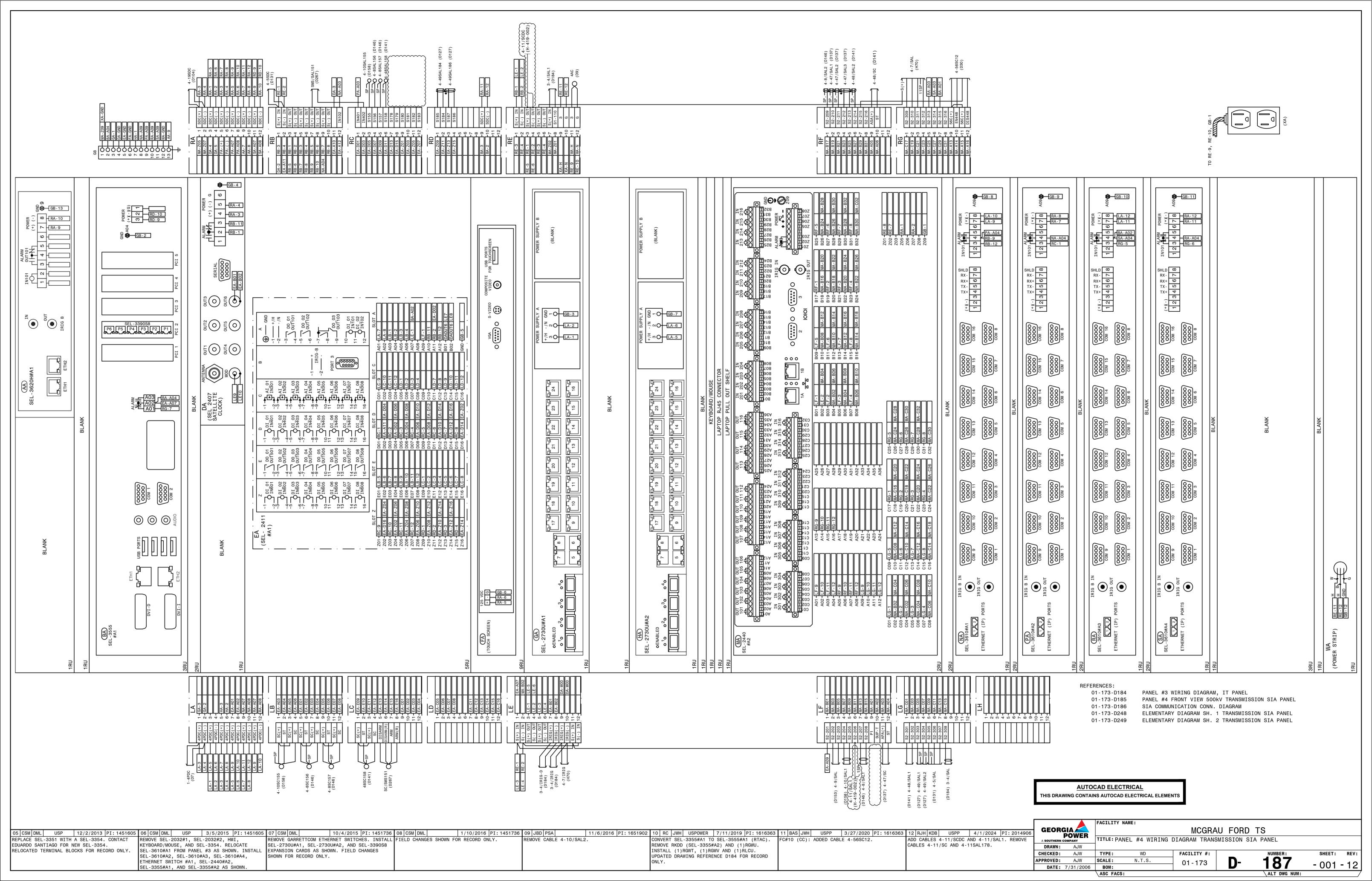


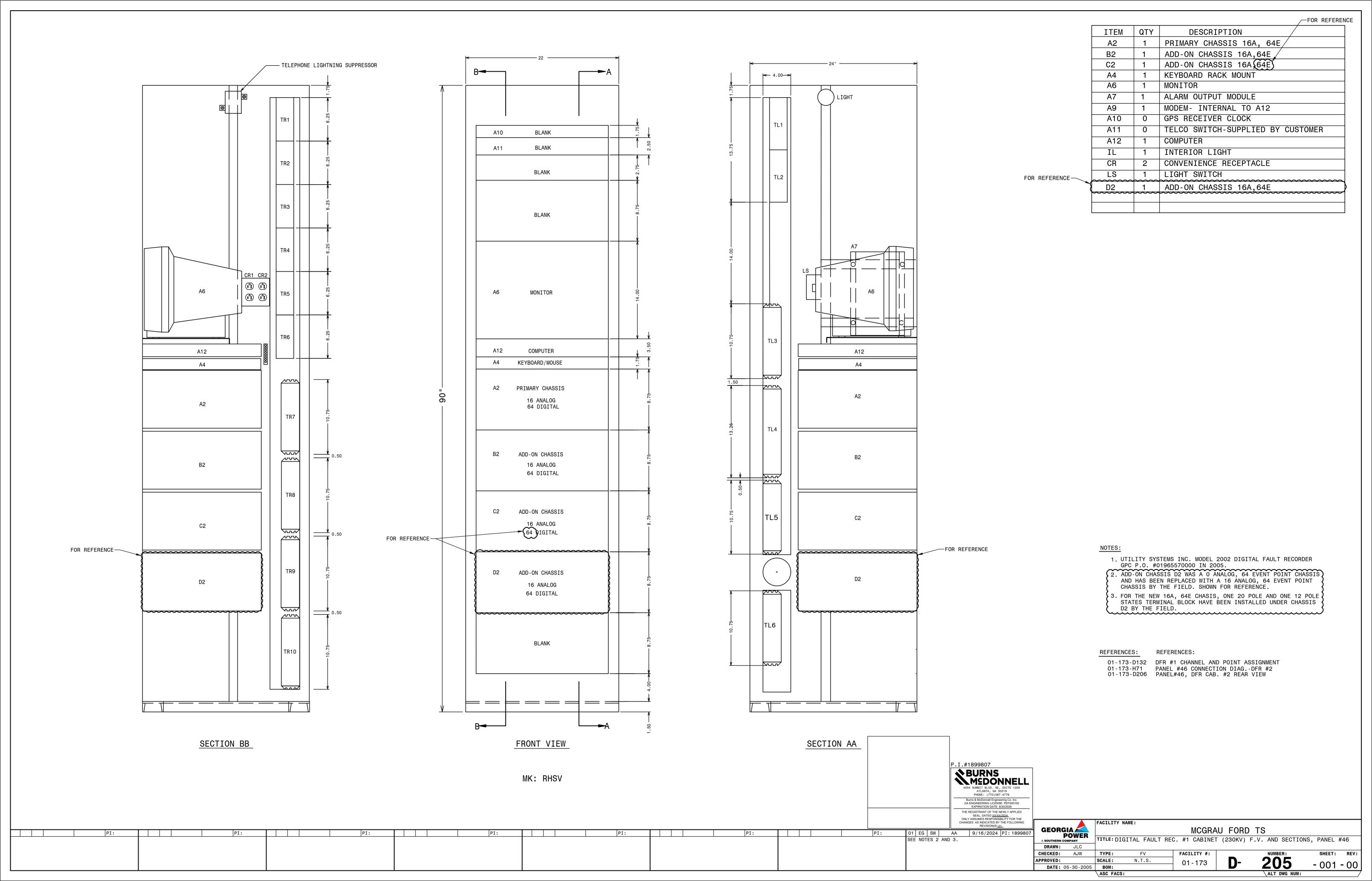


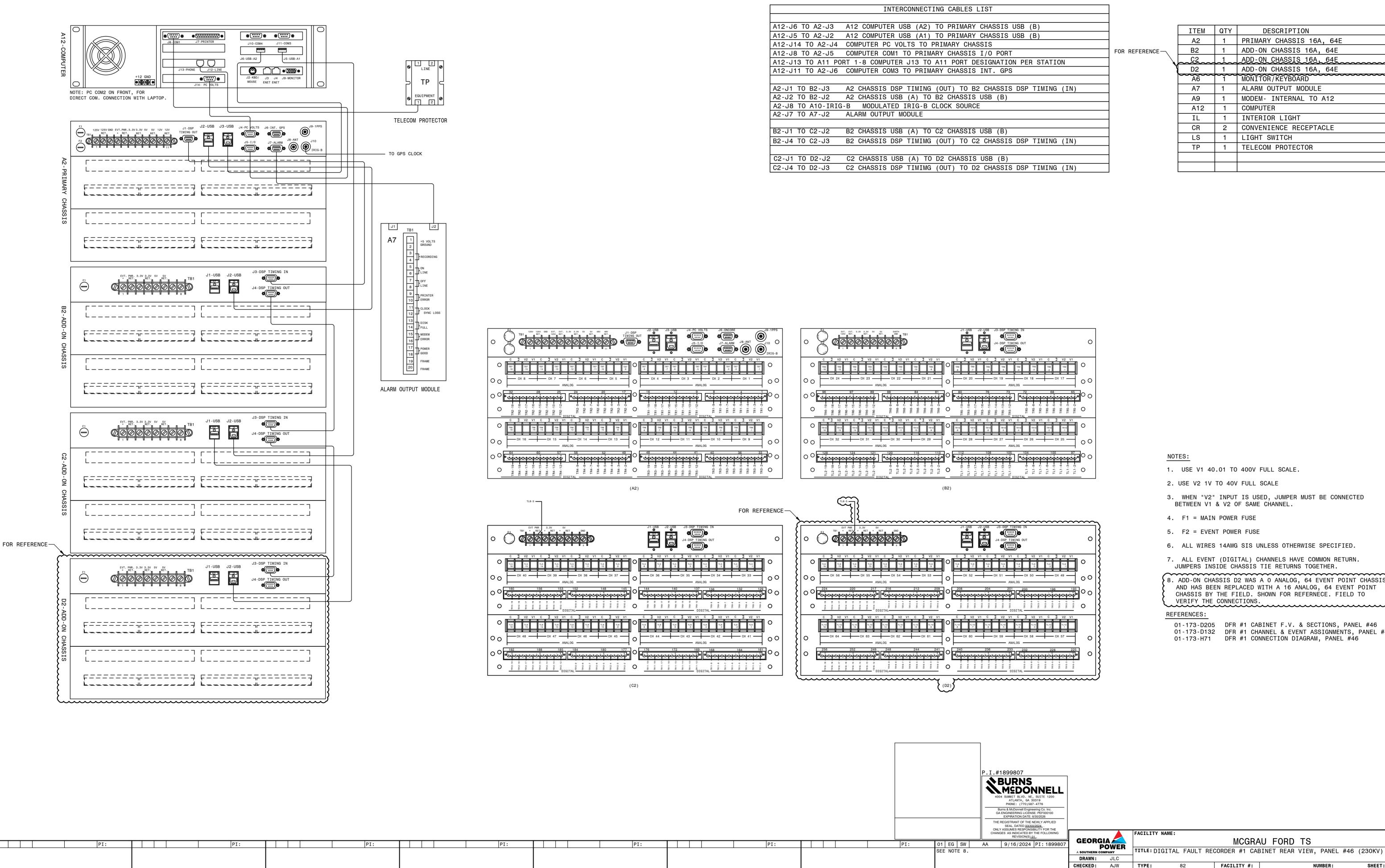












	ITEM	QTY	DESCRIPTION				
	A2	1	PRIMARY CHASSIS 16A, 64E				
	B2	1	ADD-ON CHASSIS 16A, 64E				
	C2	1	ADD-ON CHASSIS 16A, 64E				
Y	D2	1	ADD-ON CHASSIS 16A, 64E				
	A6	1	MONITOR/KEYBOARD				
	A7	1	ALARM OUTPUT MODULE				
	A9	MODEM- INTERNAL TO A12					
	A12	COMPUTER					
	IL	1	INTERIOR LIGHT				
	CR	2	CONVENIENCE RECEPTACLE				
	LS	1	LIGHT SWITCH				
	TP	1	TELECOM PROTECTOR				

APPROVED:

DATE: 08/25/2005 BOM:

SCALE:

N.T.S.

01 - 173

- 3. WHEN "V2" INPUT IS USED, JUMPER MUST BE CONNECTED BETWEEN V1 & V2 OF SAME CHANNEL.
- 6. ALL WIRES 14AWG SIS UNLESS OTHERWISE SPECIFIED.
- 7. ALL EVENT (DIGITAL) CHANNELS HAVE COMMON RETURN. JUMPERS INSIDE CHASSIS TIE RETURNS TOGETHER.

8. ADD-ON CHASSIS D2 WAS A O ANALOG, 64 EVENT POINT CHASSIS AND HAS BEEN REPLACED WITH A 16 ANALOG, 64 EVENT POINT CHASSIS BY THE FIELD. SHOWN FOR REFERNECE. FIELD TO

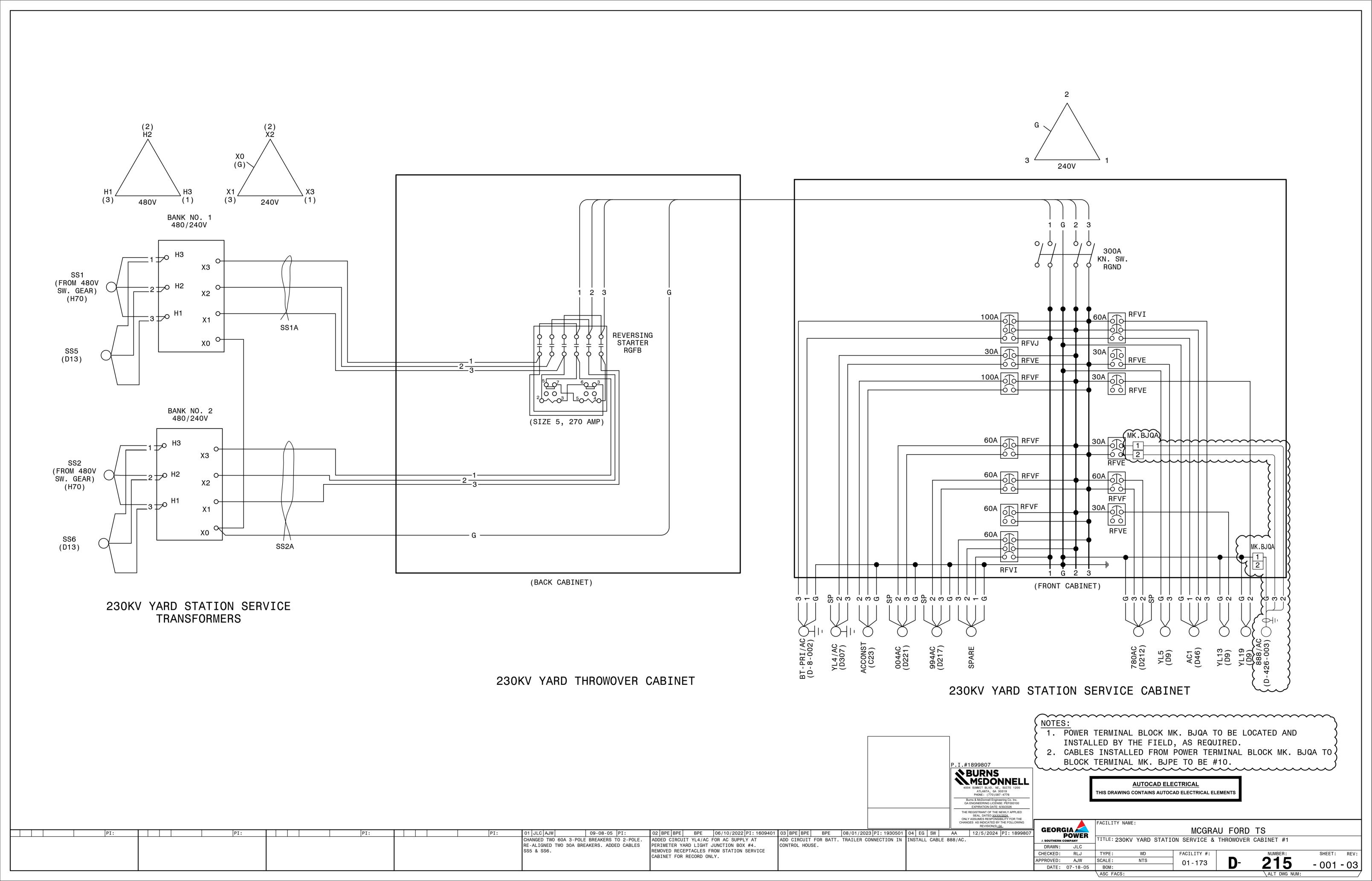
- 01-173-D205 DFR #1 CABINET F.V. & SECTIONS, PANEL #46
- 01-173-D132 DFR #1 CHANNEL & EVENT ASSIGNMENTS, PANEL #46

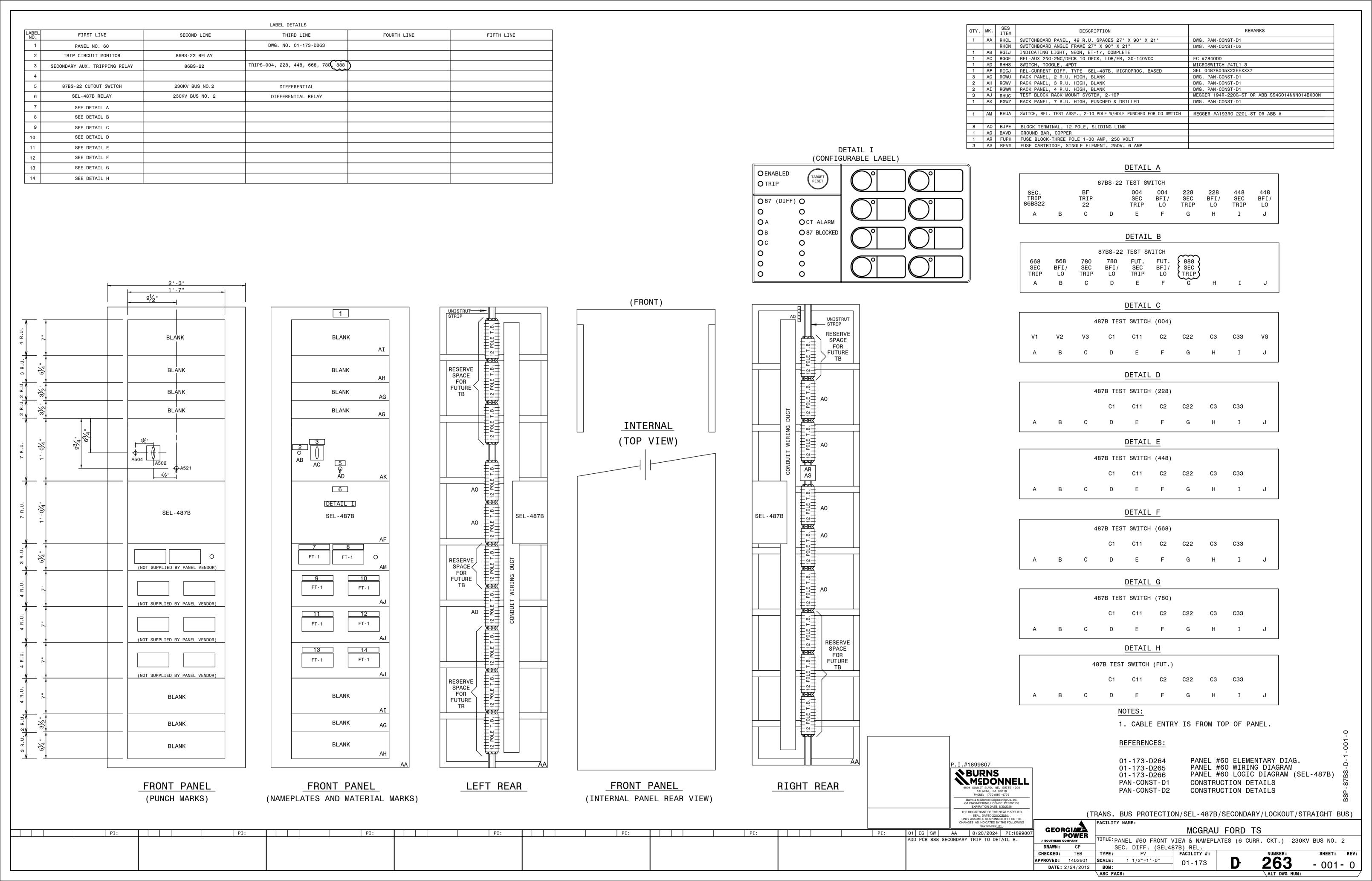
SHEET: REV:

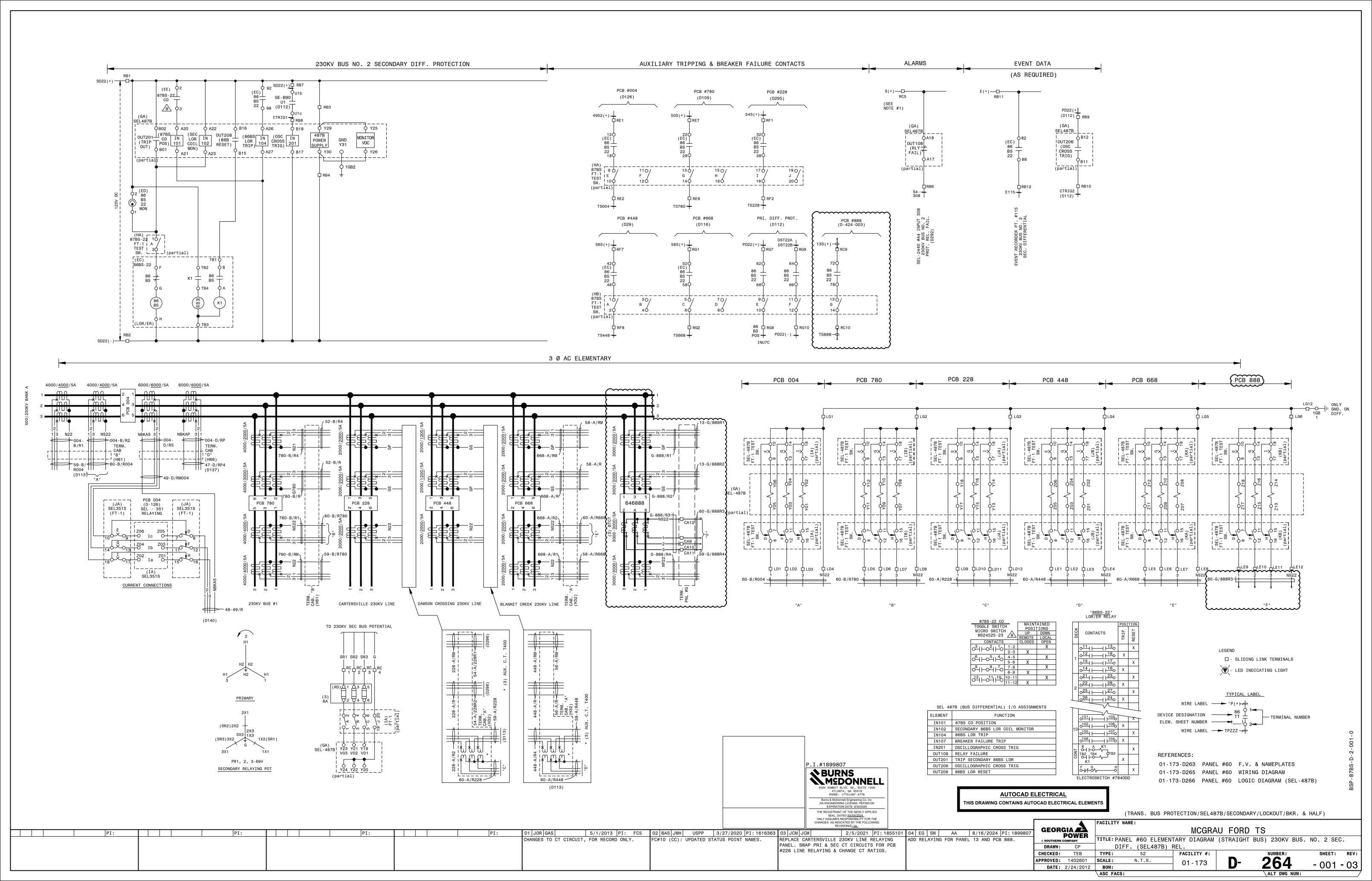
- 001 - -

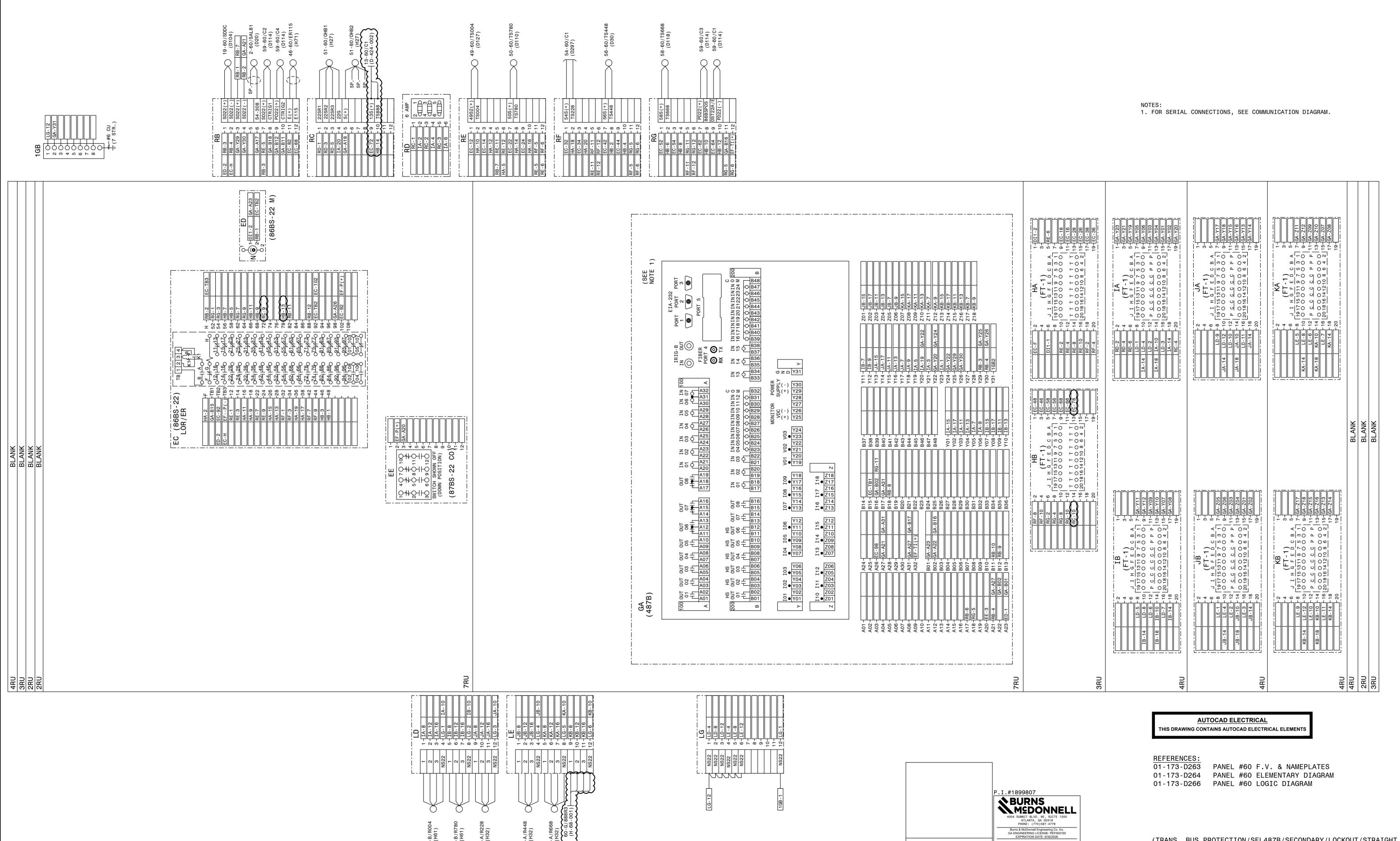
206

01-173-H71 DFR #1 CONNECTION DIAGRAM, PANEL #46









1 BAS JWH USPP 3/27/2020 PI: 1616363 02 JCM JCM

REMOVE CABLE 54-60/TS228. ADD CABLE

54-60/C1.

C#10 (CC): UPDATED STATUS POINT NAME.

SHEET: REV:

- 001 - 02

(TRANS. BUS PROTECTION/SEL487B/SECONDARY/LOCKOUT/STRAIGHT BUS)

MCGRAU FORD TS

D-

NUMBER: 265

TITLE: PANEL #60 WIRING DIAGRAM (STRAIGHT BUS) 230KV BUS NO. 2 SEC. DIFF.

FACILITY #:

01 - 173

FACILITY NAME:

TYPE:

\ASC FACS:

(SEL487B) REL

WD

N.T.S.

GEORGIA

DRAWN: CP

CHECKED: TEB

**POWER** 

APPROVED: 1402601 SCALE:

DATE: 2/24/2012 BOM:

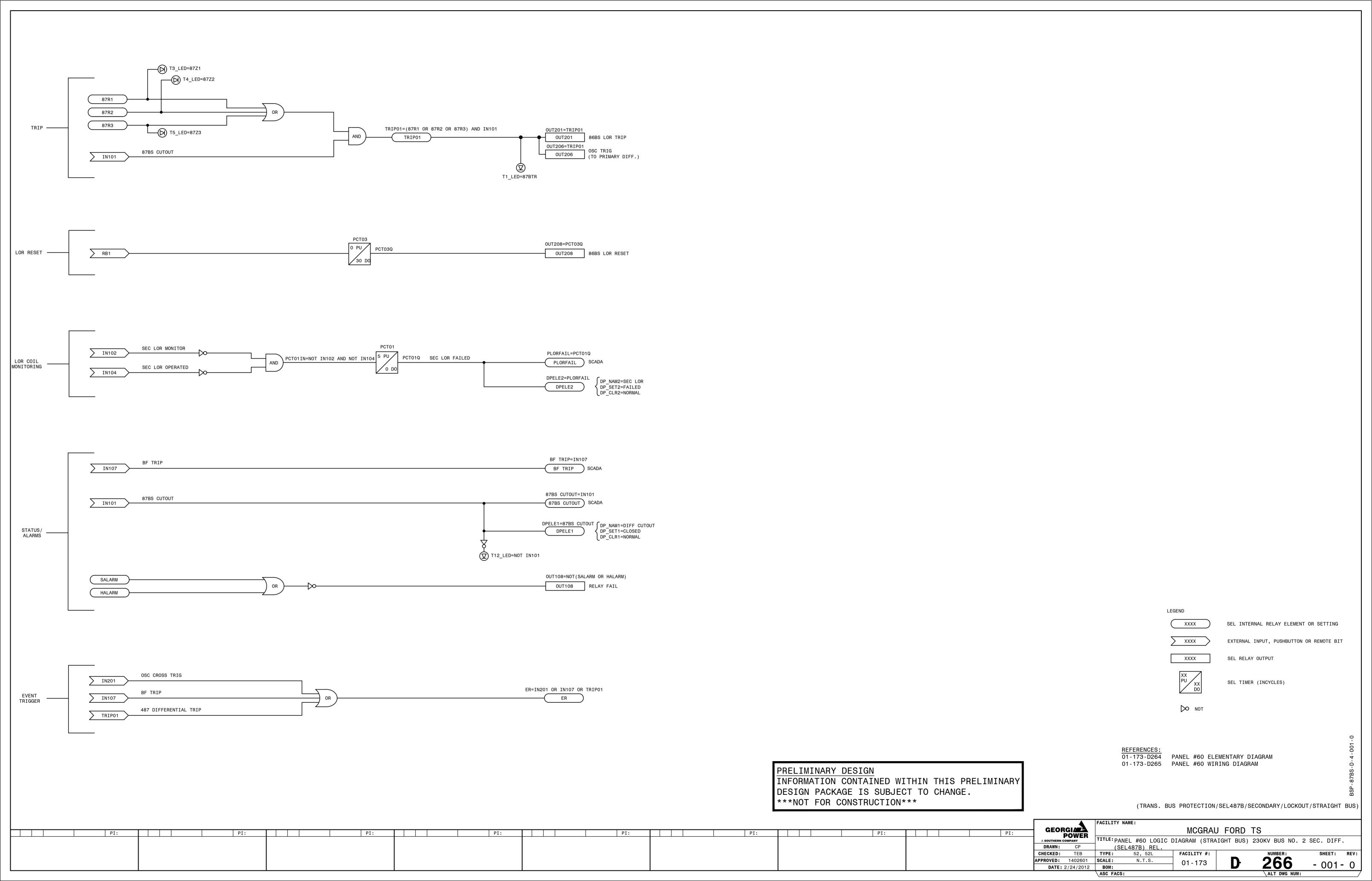
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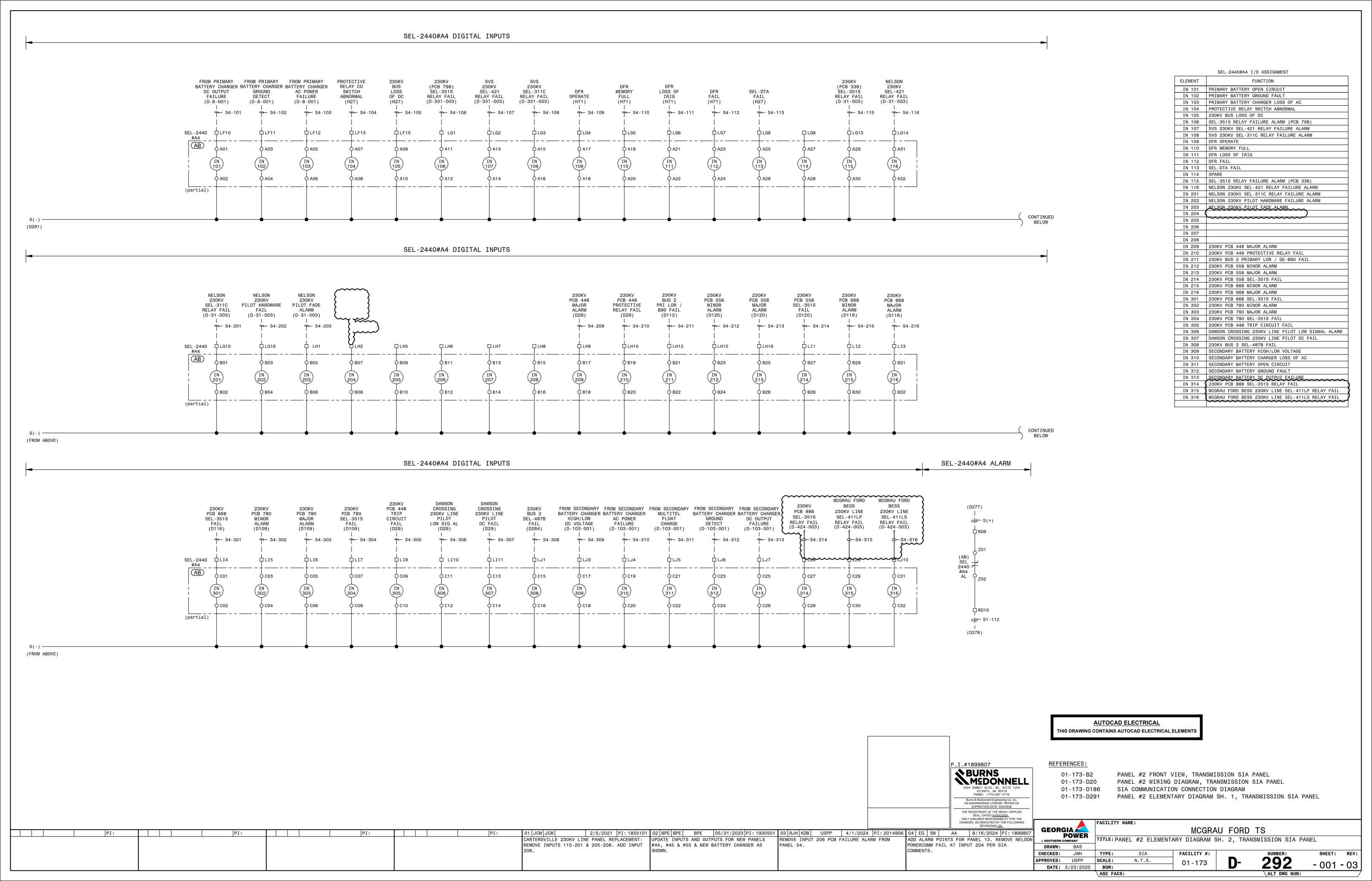
ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S).03.

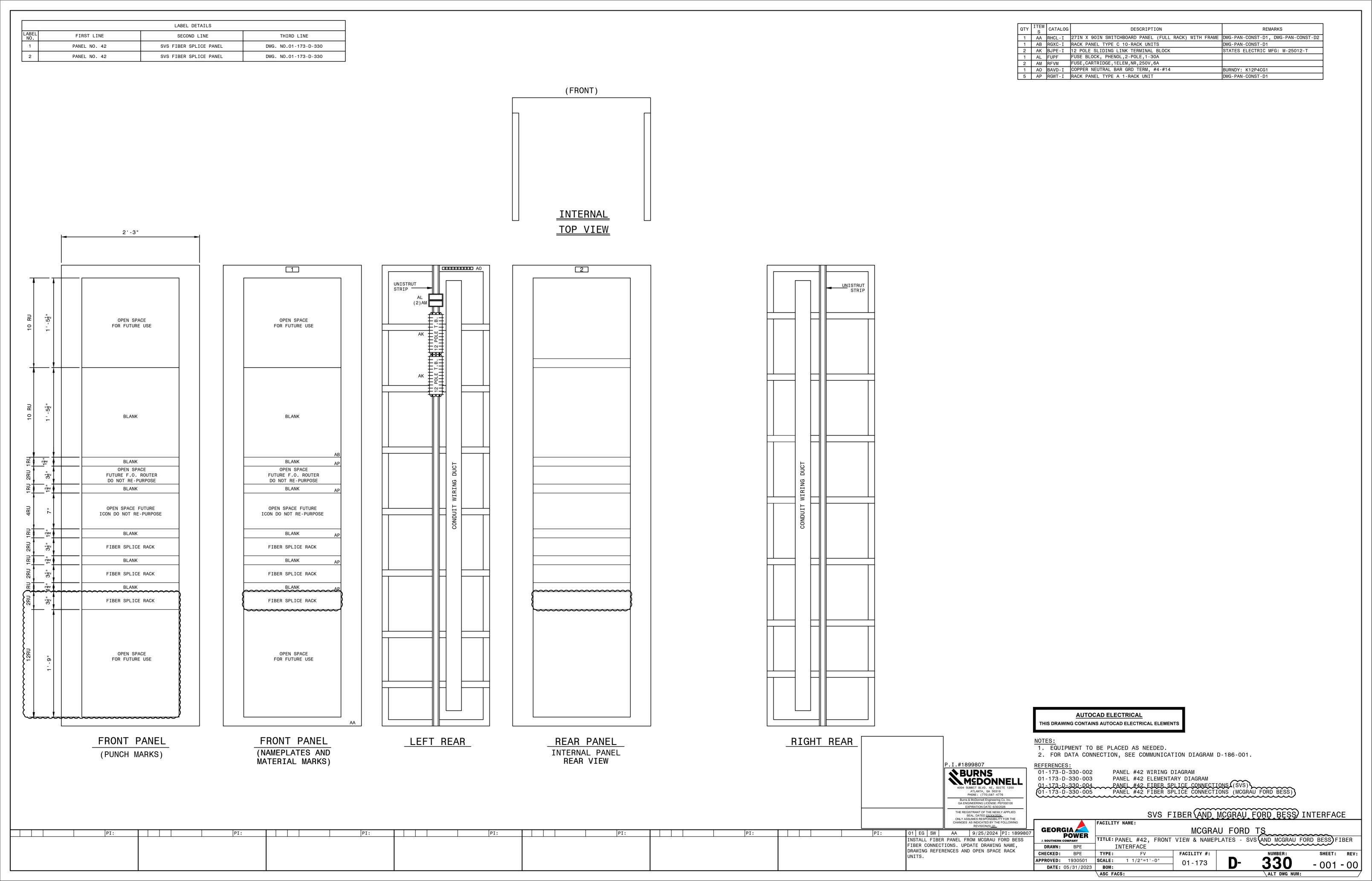
2/5/2021 PI: 1855101 03 EG DN AA 8/20/2024 PI: 1899807

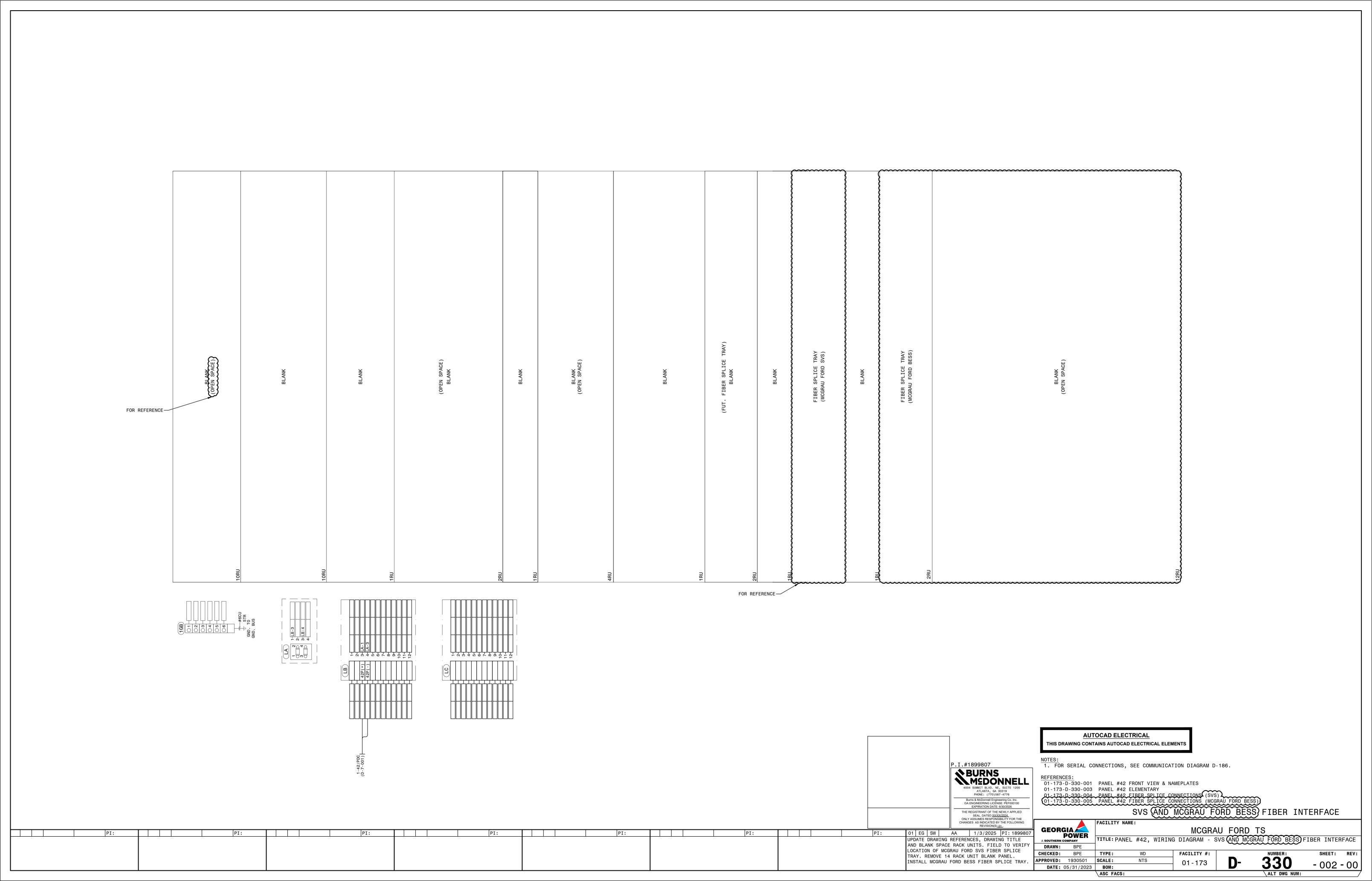
UPDATE LOCKOUT RELAY WIRING.

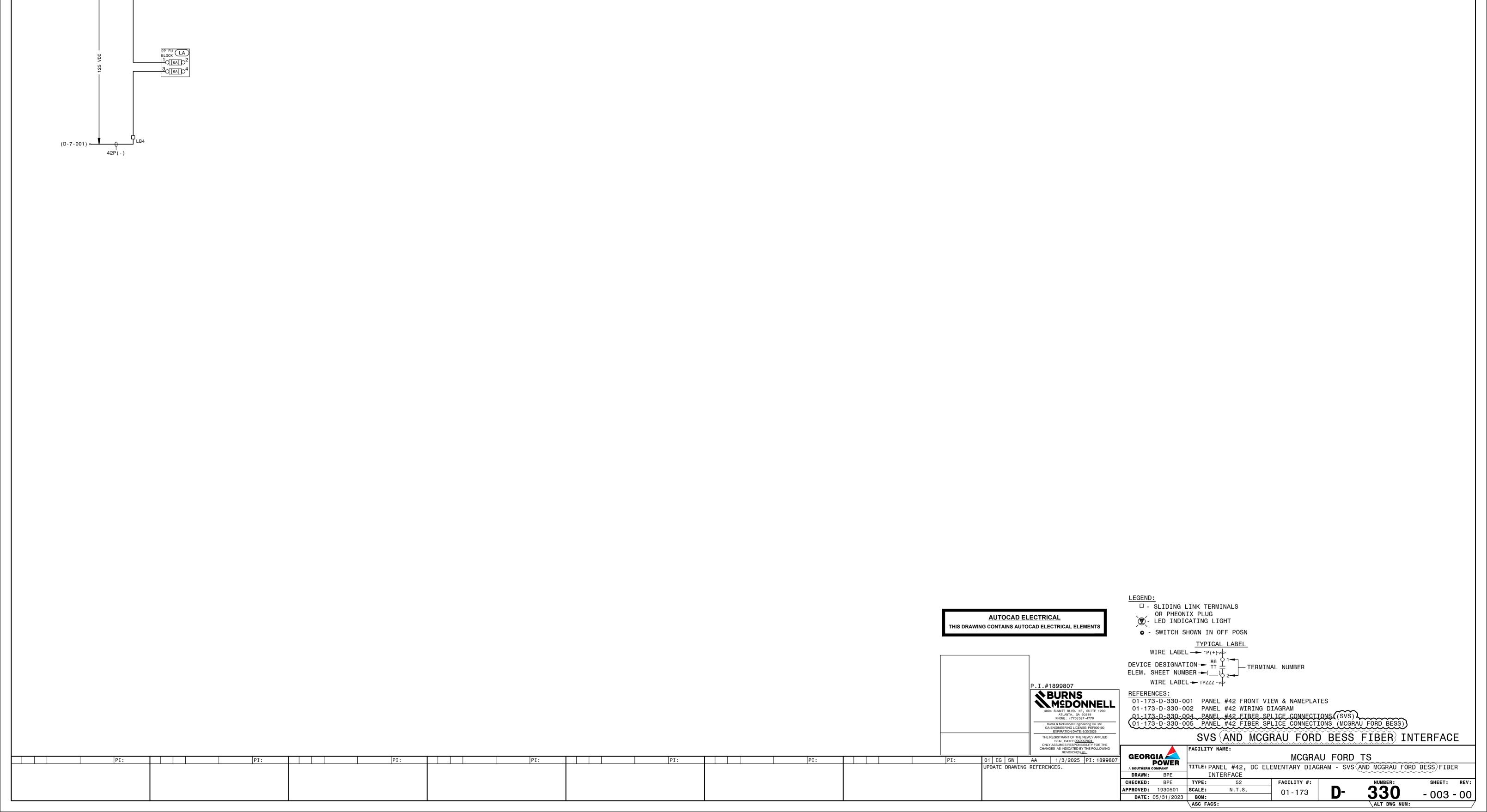
INSTALL CABLE 60-G/888R3 AND 13-60/C1.





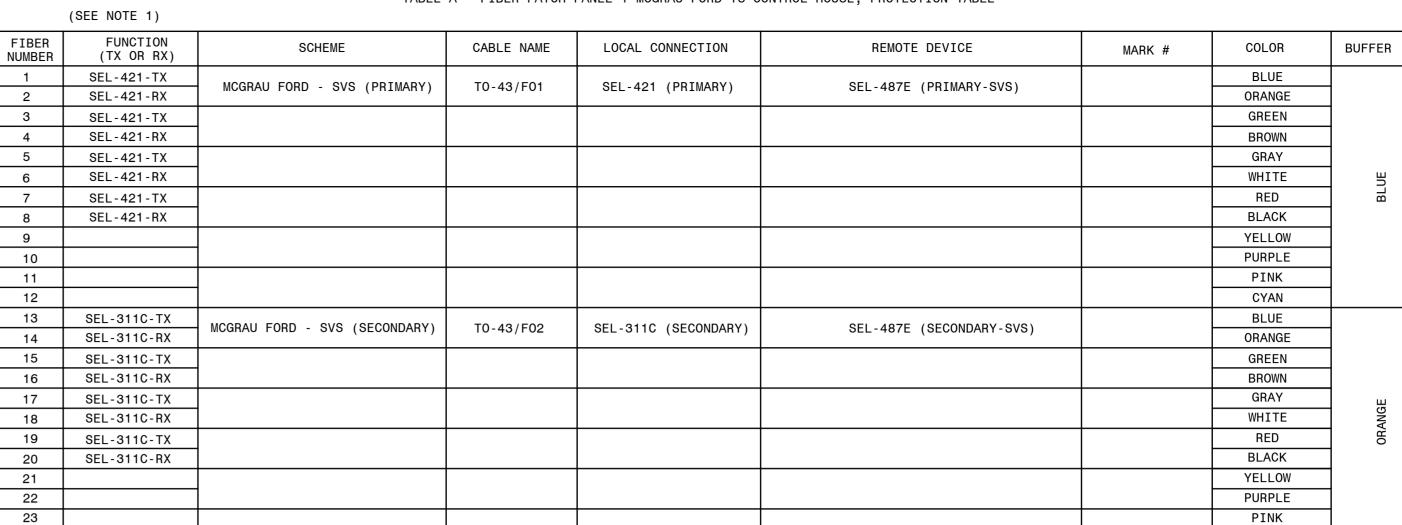




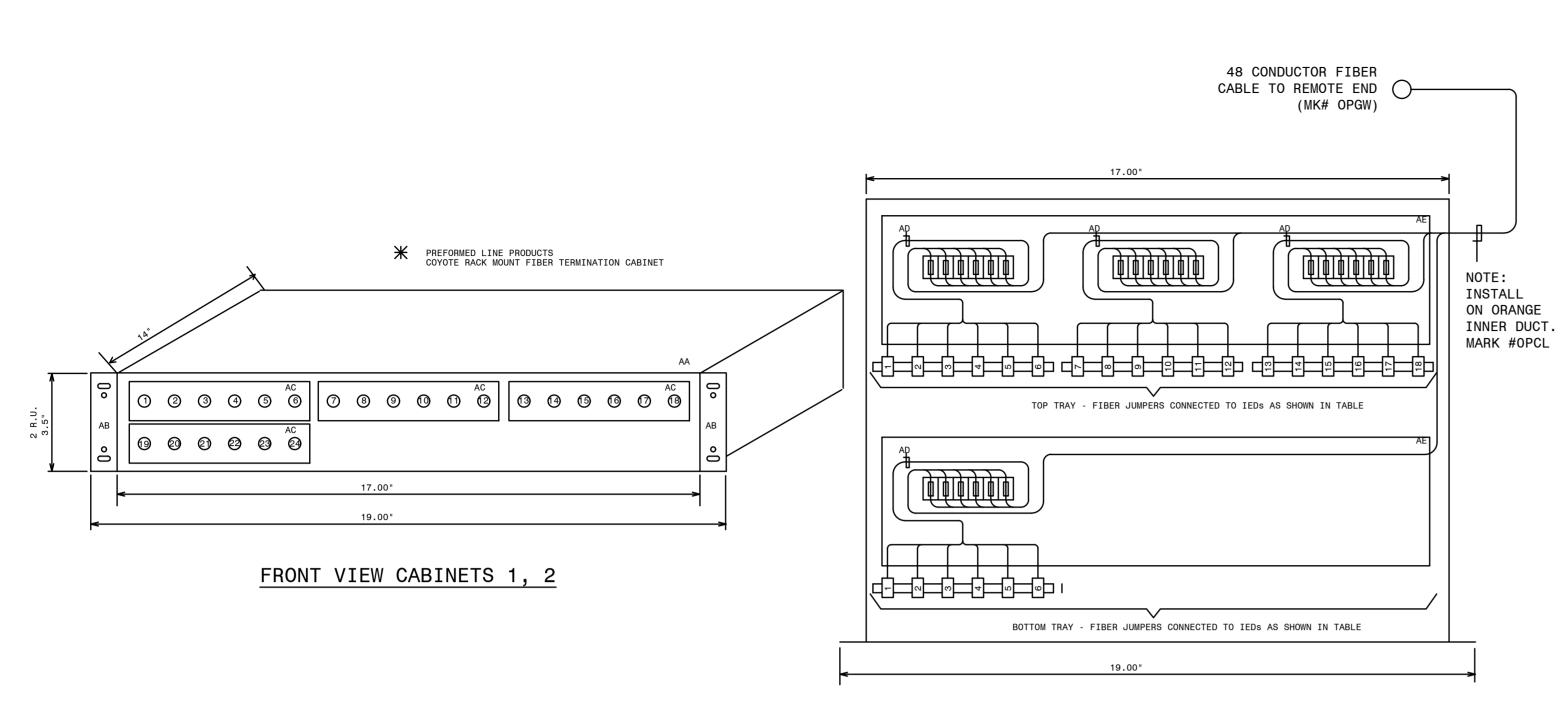


DC ELEMENTARY



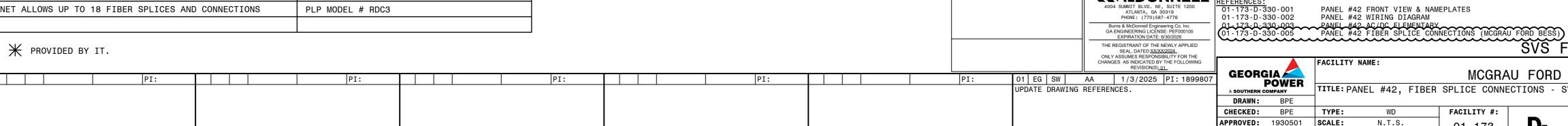


CYAN

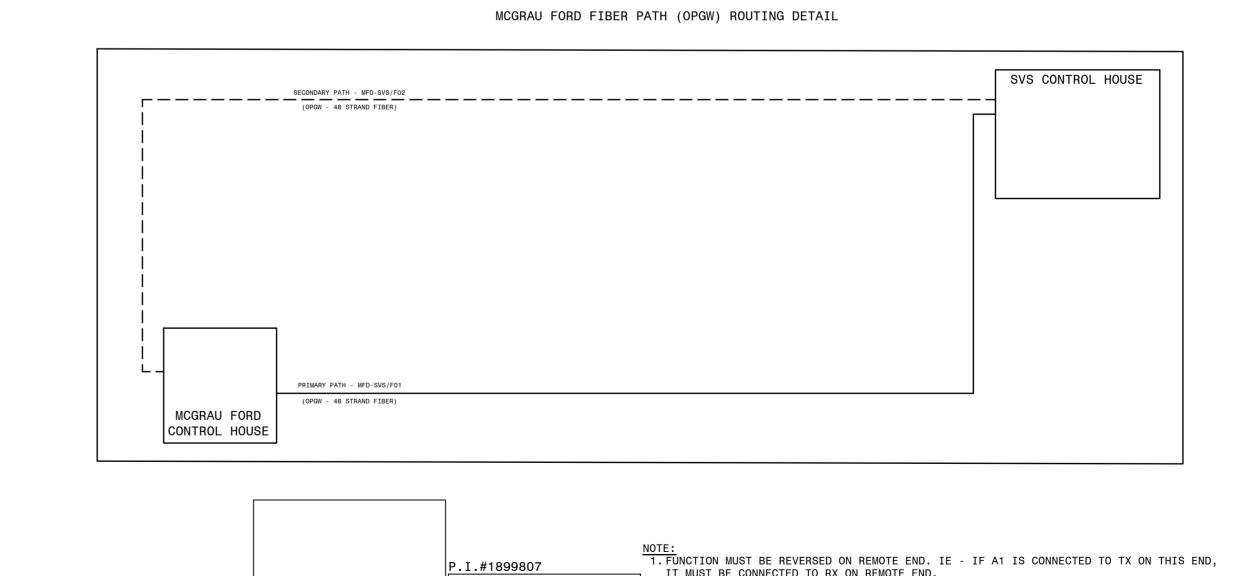


TOP VIEW CABINETS 1, 2

X QTY ITEM MARK # CMDTY #			CMDTY #	DESCRIPTION	REMARKS		
2	AA	OPCF	J-19763	PLP RDC6 RACK MOUNT CABINET ALLOWS UP TO 36 FIBER SPLICES AND CONNECTIONS	PLP MODEL # RDC6		
4	AB	OPCJ	J-19773	MOUNTING BRACKET ASSEMBLY FOR MOUNTING RDC6 IN 19" RACK MOUNT PANEL	PLP MODEL # BKT2U19A		
8	AC			LC CONNECTORS - TO BE SELECTED AND PLACED BY IT GROUP	LC CONNECTORS		
8	AD	OPCH	J-19770	FIBER PIGTAIL - MIC CABLE 6 FIBER, 2 METER ST-SM	PROVIDES SM-ST TERM. FOR 6 FIBERS.		
4	AE	OPBD	J-19598	FIBER CABLE SPLICE TRAY - MOUNTS INTERNAL TO OPCF	PLP MODEL # 80805514		
	AF	OPCP	J-19820	SINGLE MODE SIMPLEX JUMPER ST TO ST (1 METER)			
	AG	OPCQ	J-19821	SINGLE MODE SIMPLEX JUMPER ST TO ST (33 METER)			
	AH	OPCR	J-19803	SINGLE MODE DUPLEX JUMPER ST TO ST (1 METER)			
	AI	OPCM	J-19804	SINGLE MODE DUPLEX JUMPER ST TO ST (2 METER)			
	AJ	OPDN	J-19805	SINGLE MODE DUPLEX JUMPER ST TO ST (5 METER)			
	AK	OPDA	J-19708	62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (1 METER)			
	AL	OPDB	J-82075	62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (2 METER)			
	AM	OPDC	J-81612	62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (5 METER)			
4	A0	OPDP	J-19864	SINGLE MODE DUPLEX JUMPER ST TO ST (20 METER)			
1	AP	OPC0	J-19776	PLP RDC3 RACK MOUNT CABINET ALLOWS UP TO 18 FIBER SPLICES AND CONNECTIONS	PLP MODEL # RDC3		
		OPAZ					



24



IT MUST BE CONNECTED TO RX ON REMOTE END.

REFERENCES: 01-173-D-330-001

01-173-D-330-002

POWER
A SOUTHERN COMPANY

DATE: 05/31/2023 BOM:

DRAWN: BPE

3. FIELD TO VERIFY FINAL FIBER INSTALLATION DETAILS.

FACILITY NAME:

\ASC FACS:

2. SEE SIA COMMUNICATION CONNECTION DIAGRAM D-186 FOR ADDITIONAL INFORMATION.

PANEL #42 FRONT VIEW & NAMEPLATES

N.T.S.

SVS FIBER INTERFACE

330

SHEET: REV:

- 004 - 00

MCGRAU FORD TS

TITLE: PANEL #42, FIBER SPLICE CONNECTIONS - SVS FIBER INTERFACE

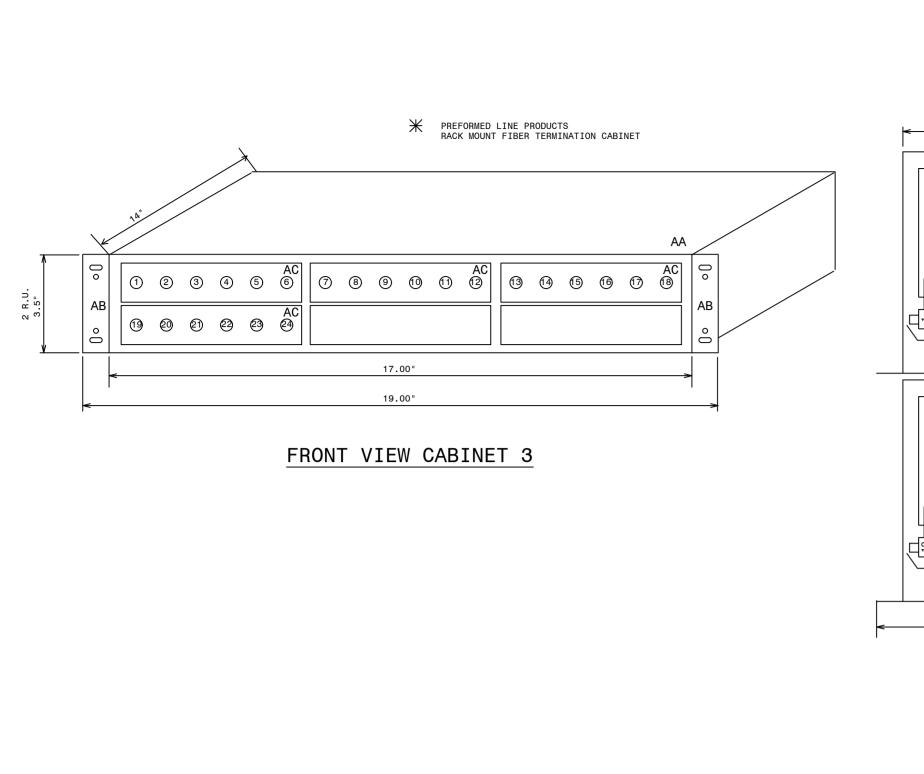
FACILITY #:

01 - 173

PANEL #42 WIRING DIAGRAM

P.I.#1899807

BURNS MCDONNELL



QTY

4

ITEM

AA

AB

AC

AD

ΑE

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AG

AH

ΑI

AJ

ΑK

AL

AN

A0

AP

MARK #

OPCF

OPCJ

OPCG

OPCH

OPBD

OPCP

OPCQ

OPCR

OPCM

OPDN

OPDA

OPDB

OPDC

OPDP

OPAZ

OPBB

DESCRIPTION

J-19763 | PLP RDC6 RACK MOUNT CABINET ALLOWS UP TO 36 FIBER SPLICES AND CONNECTIONS

J-19773 | MOUNTING BRACKET ASSEMBLY FOR MOUNTING RDC6 IN 19" RACK MOUNT PANEL

J-19767 PLP 61SMST ST CONNECTOR SIX PACK

J-19770 | FIBER PIGTAIL - MIC CABLE 6 FIBER, 2 METER ST-SM

J-19598 FIBER CABLE SPLICE TRAY - MOUNTS INTERNAL TO OPCF

J-19820 | SINGLE MODE SIMPLEX JUMPER ST TO ST (1 METER)

J-19821 | SINGLE MODE SIMPLEX JUMPER ST TO ST (33 METER)

J-19803 | SINGLE MODE DUPLEX JUMPER ST TO ST (1 METER)

J-19804 SINGLE MODE DUPLEX JUMPER ST TO ST (2 METER)

J-19805 | SINGLE MODE DUPLEX JUMPER ST TO ST (5 METER)

J-19864 | SINGLE MODE DUPLEX JUMPER ST TO ST (20 METER)

J-19520 OPTICAL CABLE 12 FIBER SINGLE MODE

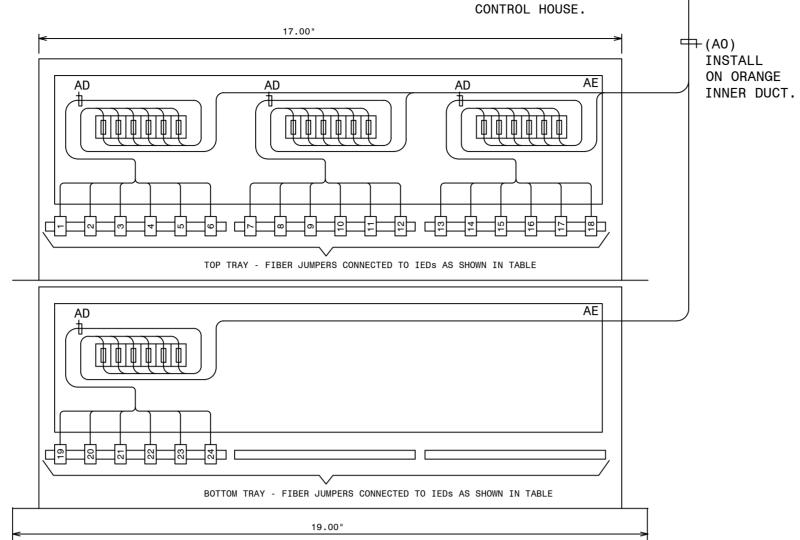
J-19549 OPTICAL CABLE 24 FIBER SINGLE MODE

J-19708 | 62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (1 METER)

J-82075 | 62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (2 METER)

J-81612 | 62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (5 METER)

 $\divideontimes$  PROVIDED BY IT.



TOP VIEW CABINET 3

REMARKS

ST TO ST TERMINATION FOR 6 FIBERS

PROVIDES SM-ST TERM. FOR 6 FIBERS.

PLP MODEL # RDC6

PLP MODEL # BKT2U19A

PLP MODEL # 80805514

2 X 12 CONDUCTOR (12/C SM-OPAZ) FIBER CABLES

TO MCGRAU FORD BESS 🔍

(SEE NOTE 1)

TABLE A - FIBER PANEL 2 (FOP-3) FIBER JUMPER CONNECTIONS

	(SEE NOTE T)							
FIBER NUMBER	FUNCTION (TX OR RX)	CABLE NAME	REMOTE DEVICE	REMOTE LOCATION	DWG REF	MARK #	COLOR	BUFFER
1	PRI RELAY RX	10 40/5101	SEL-411LP MCGRAU FORD BESS 230KV LINE	PANEL 13	D-424-002	OPDP	BLUE	
2	PRI RELAY TX	13-42/FIB1					ORANGE	
3	SPARE						GREEN	BLUE
4	SPARE						BROWN	B
5	SPARE						GRAY	
6	SPARE						WHITE	
7	SPARE						RED	
8	SPARE						BLACK	ш
9	SPARE						YELLOW	ORANGE
10	SPARE						PURPLE	<u> </u>
11	SPARE						PINK	
12	SPARE						CYAN	
13	SEC RELAY RX	13-42/FIR2	13-42/FIB2 SEL-411LS MCGRAU FORD BESS 230KV LINE	PANEL 13	D-424-002	OPDP	BLUE	
14	SEC RELAY TX	13-42/F162					ORANGE	
15	SPARE						GREEN	GREEN
16	SPARE						BROWN	GR
17	SPARE						GRAY	
18	SPARE						WHITE	
19	SPARE						RED	
20	SPARE						BLACK	
21	SPARE						YELLOW	BROWN
22	SPARE						PURPLE	88
23	SPARE						PINK	
24	SPARE						CYAN	

	NOTE:  1. FUNCTION MUST BE REVERSED ON REMOTE END. IE - IF A1 IS CONNECTED TO TX ON THIS END, IT MUST BE CONNECTED TO RX ON REMOTE END.
1	DEFENSIVE -

D-330-004

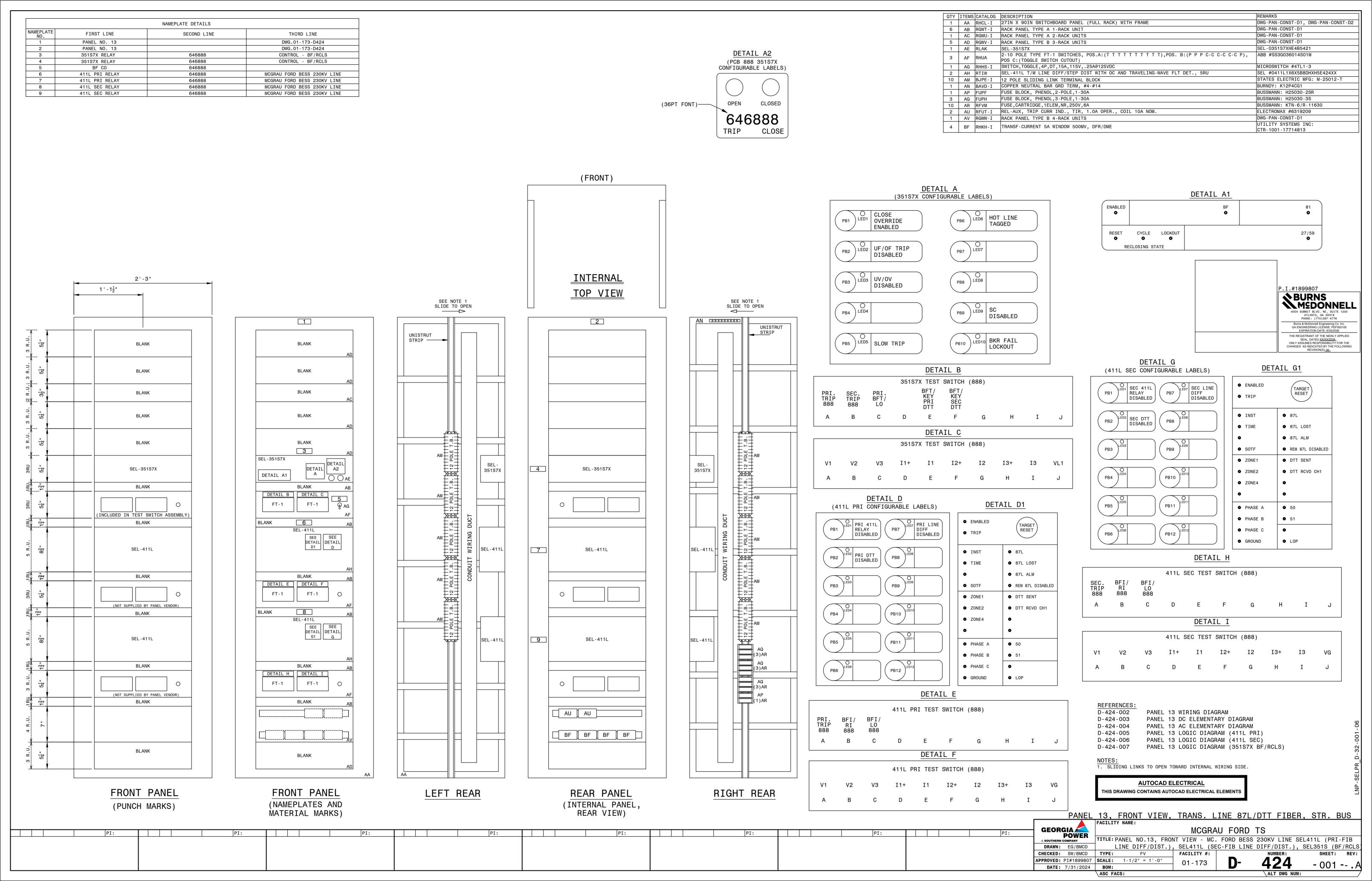
P.I.#1899807

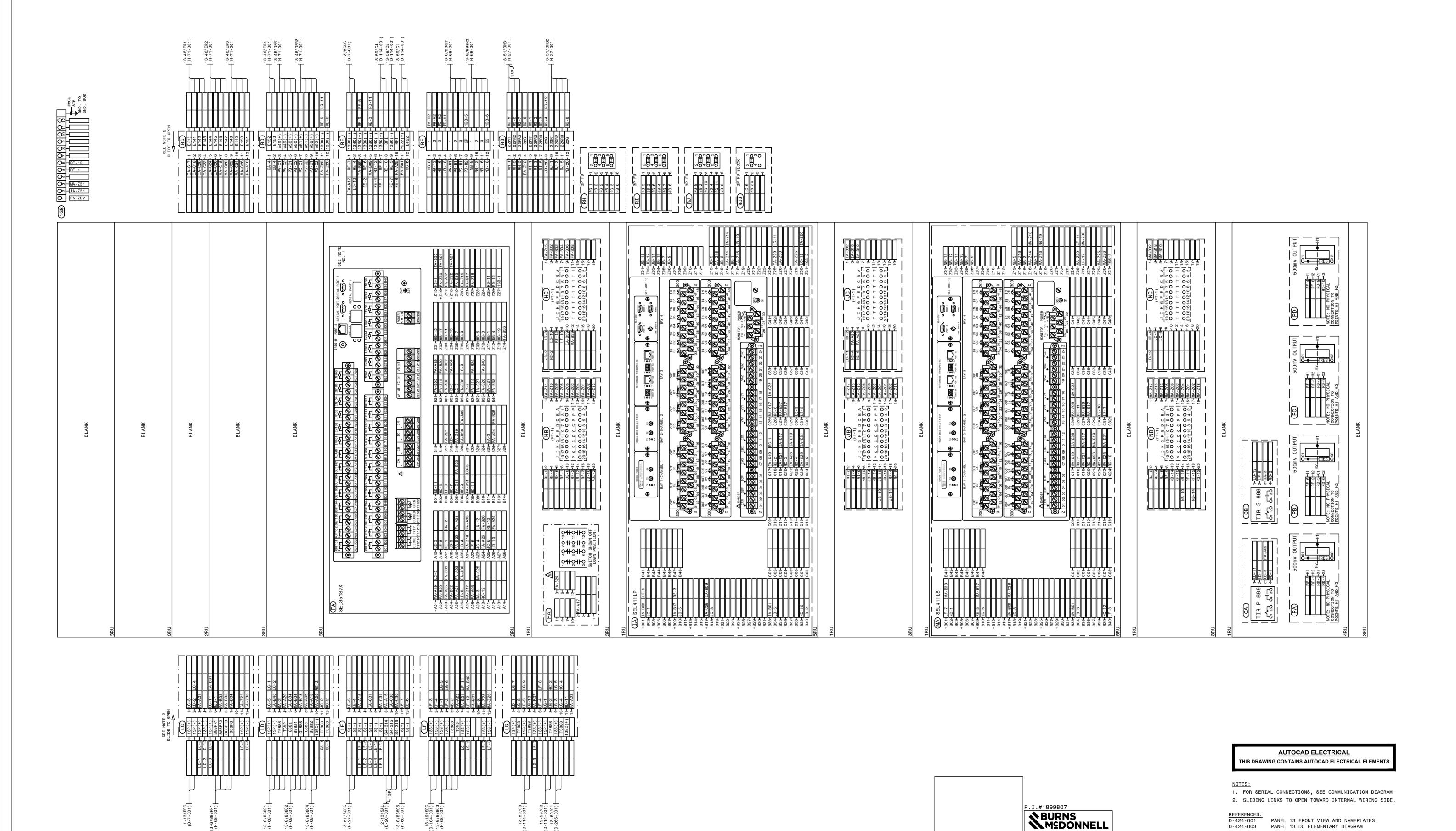
**\$BURNS** M©DONNELL

REFERENCES: D-330-001 PANEL #42 FRONT VIEW AND NAMEPLATES PANEL #42 WIRING DIAGRAM D-330-002 D-330-003

PANEL #42 ELEMENTARY DIAGRAM PANEL #42 FIBER SPLICE CONNECTIONS (SVS)

		CHECKED: APPROVED:	SW/BMCD PI#1899807	TYPE: SCALE:	WD N.T.S.	FACILITY #: 01-173	D-	330	sheet: re - 005	E۷	
		DRAWN:	EG/BMCD								
<u> </u>		A SOUTHERN		TITLE: PAN	EL #42, FIBER	SPLICE CONNE	ECTIONS - N	MCGRAU FORD E	SESS INTERFACE		
	PI:		GEORGIA POWER		MCGRAU FORD TS						
ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S) 00.				FACILITY N	AME:						
THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED XX/XX/2024 .							BESS	S FIBER	INTERFACE		
	IRNS & McDonnell Engineering Co. Inc. ENGINEERING LICENSE: PEF000100 EXPIRATION DATE: 6/30/2026										
	4 SUMMIT BLVD. NE, SUITE 1200 ATLANTA, GA 30319 PHONE: (770)587-4776										





SHEET: REV:

-002 - .A

NUMBER:

PANEL 13 DC ELEMENTARY DIAGRAM

PANEL 13 AC ELEMENTARY DIAGRAM

PANEL 13 LOGIC DIAGRAM (411L SEC)

PANEL 13 LOGIC DIAGRAM (351S7X BF/RCLS)

D-424-005 PANEL 13 LOGIC DIAGRAM (411L PRI)

FACILITY #:

01 - 173

D-424-003

D-424-006

D-424-007

WD

N.T.S.

FACILITY NAME:

ASC FACS:

**GEORGIA** 

DRAWN: EG/BMCD

**POWER** 

CHECKED: SW/BMCD TYPE:

APPROVED: PI#1899807 SCALE:

DATE: 7/31/2024 BOM:

**M**SDONNELI

4004 SUMMIT BLVD. NE, SUITE 12 ATLANTA, GA 30319 PHONE: (770)587-4776 Burns & McDonnell Engineering Co. Inc GA ENGINEERING LICENSE: PEF00011

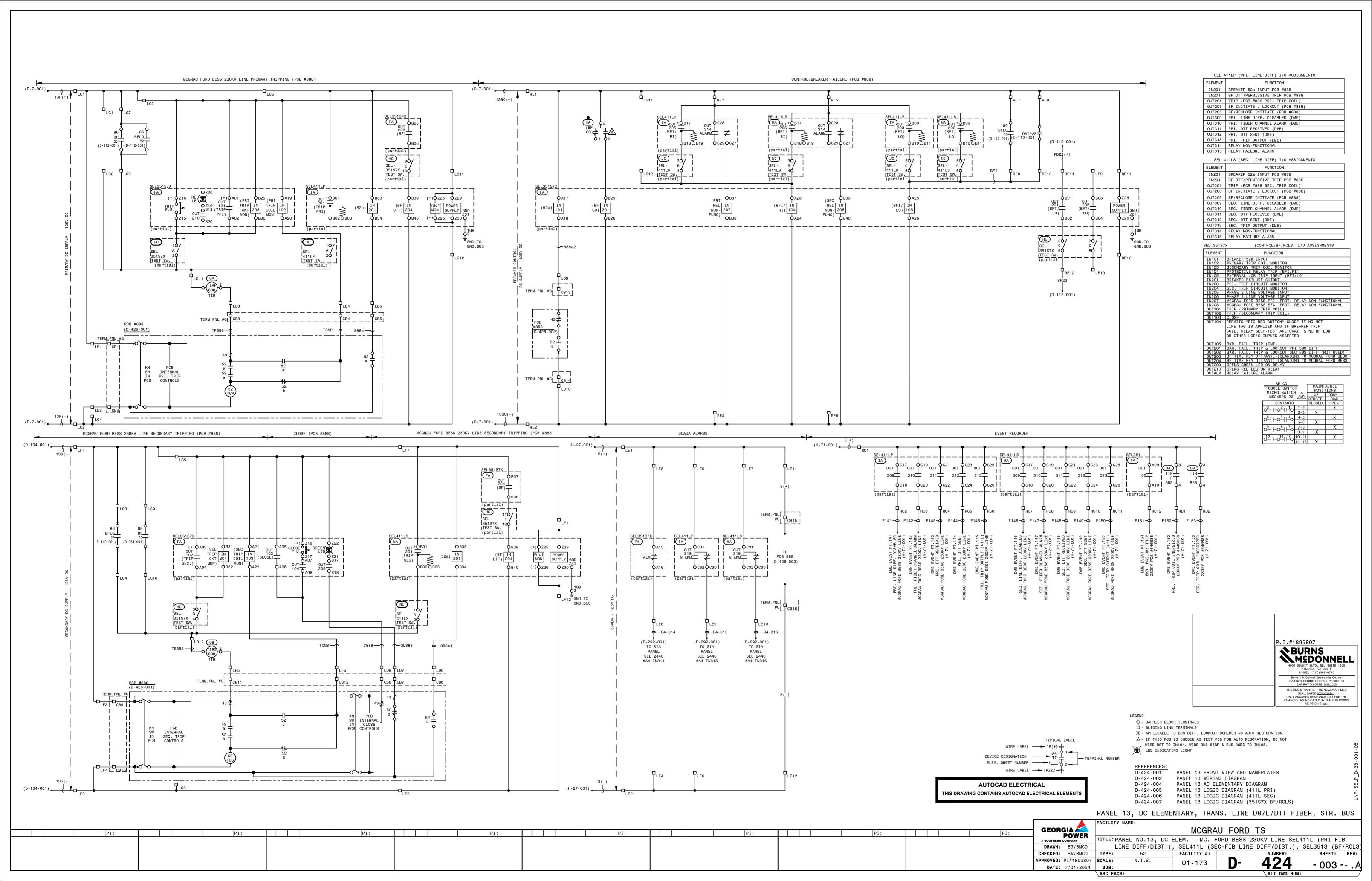
GA ENGINEERING LICENSE: PEF00010 EXPIRATION DATE: 6/30/2026

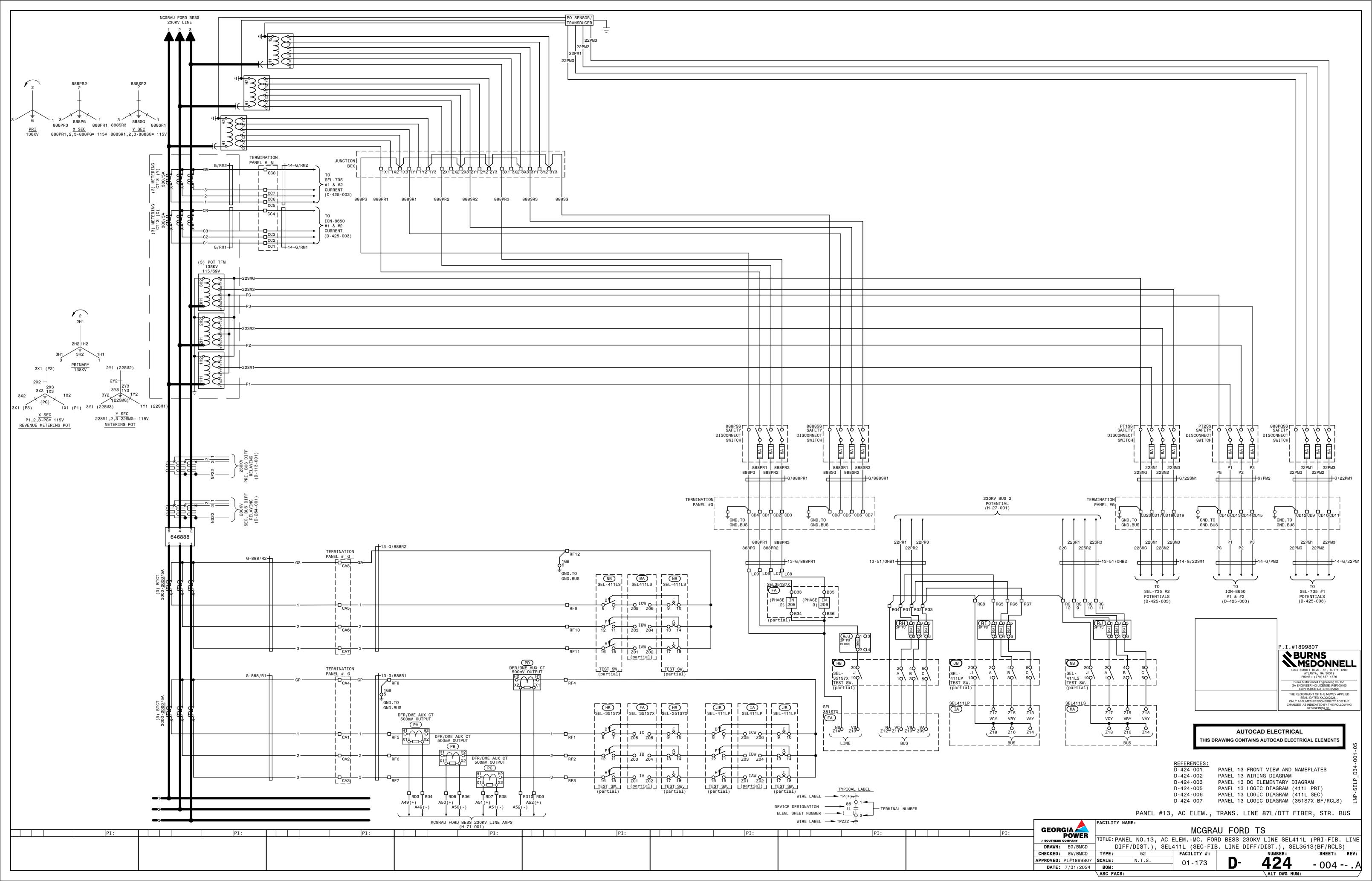
THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED XX/XX/2024.

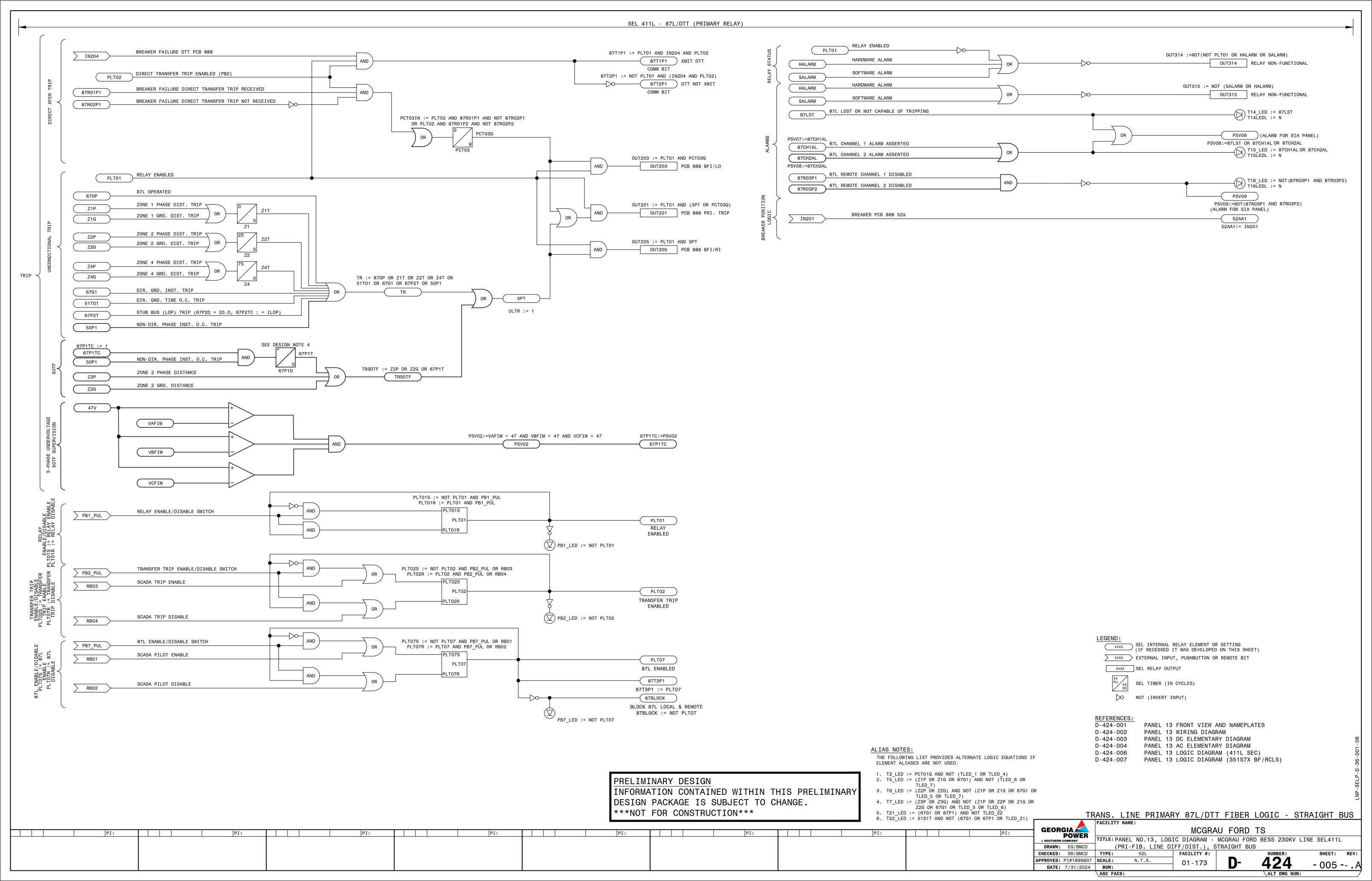
ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S).00.

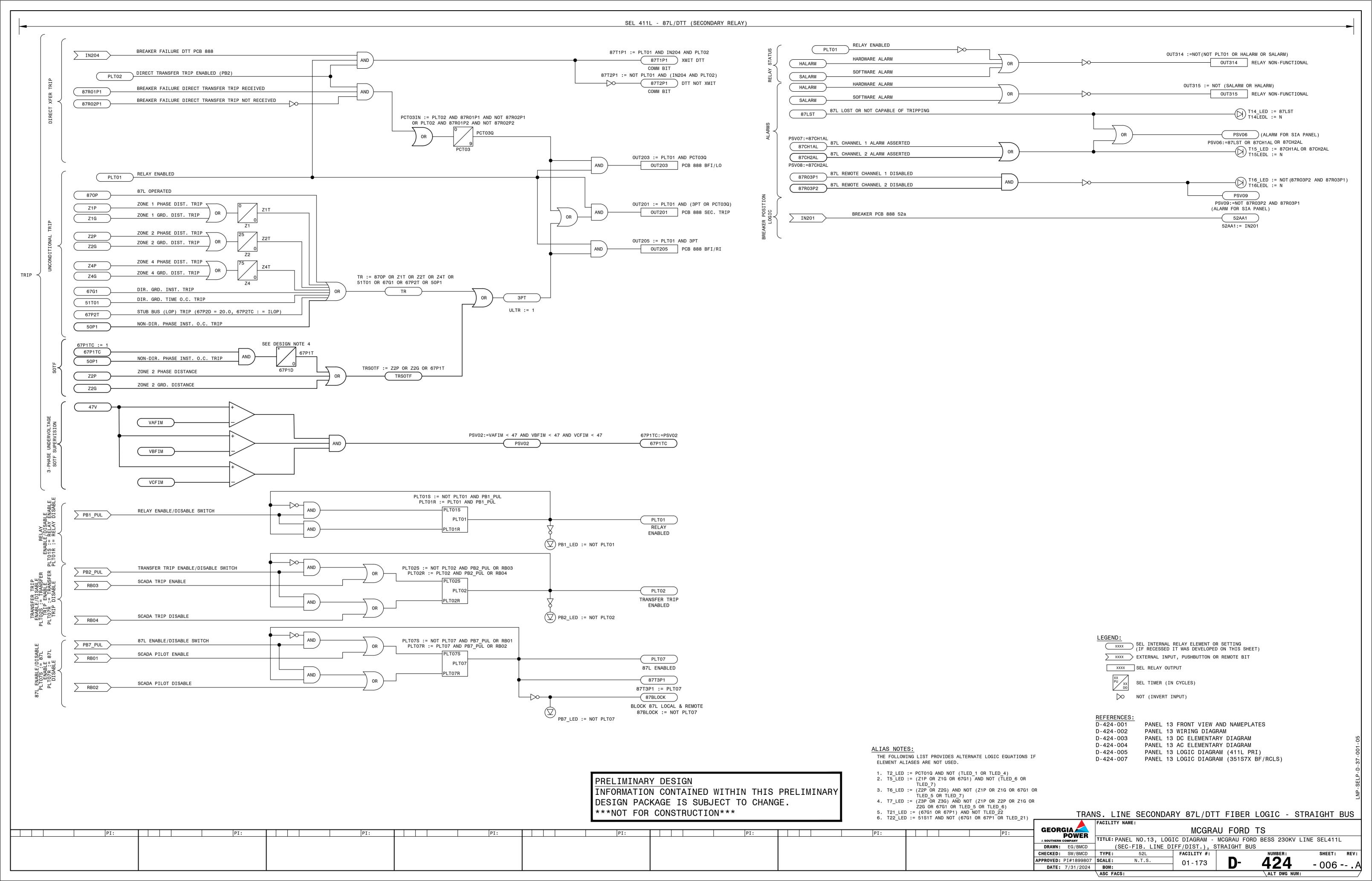
MCGRAU FORD TS

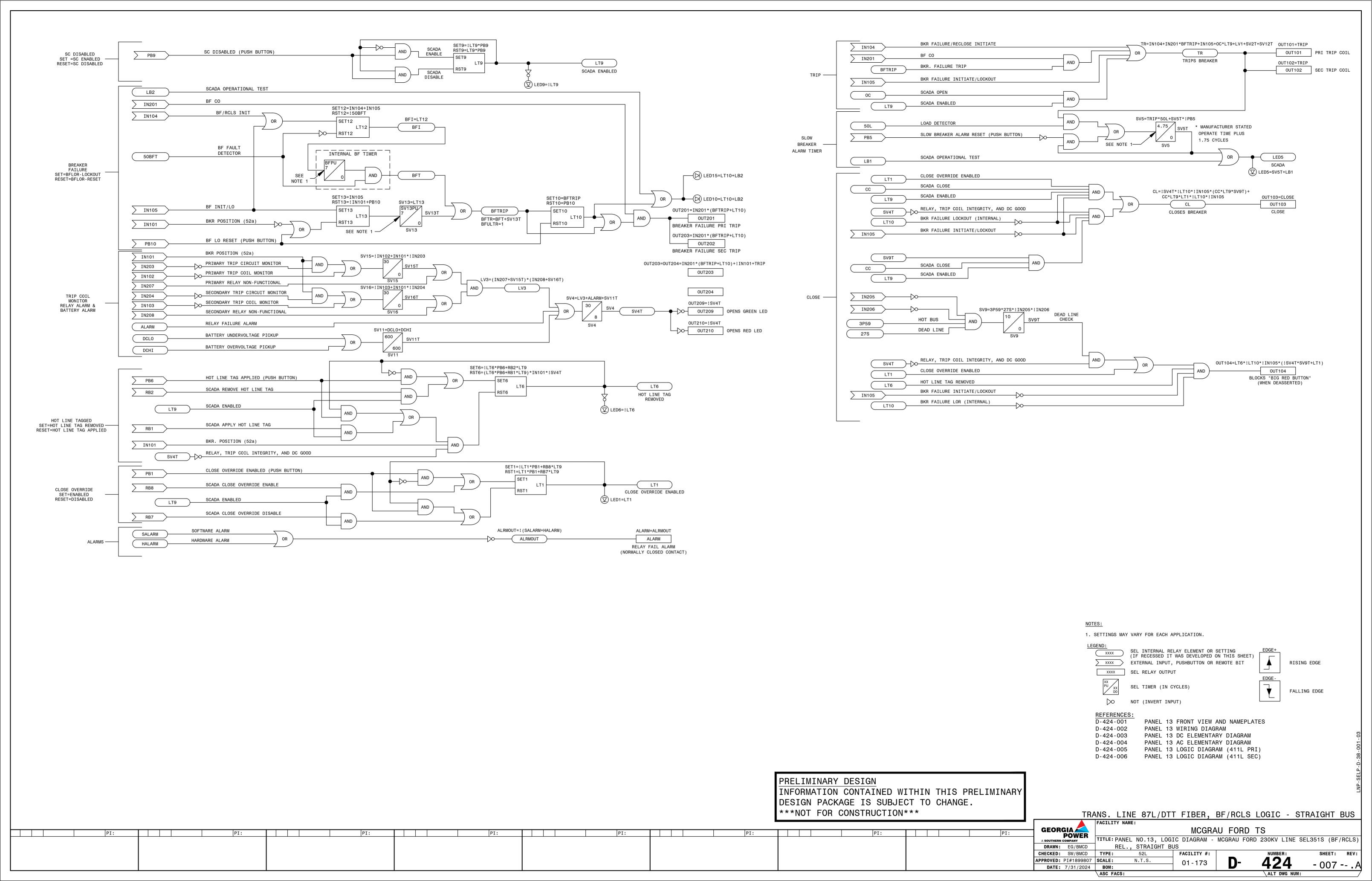
PANEL #13, WIRING DIAG., TRANS. LINE 87L/DTT FIBER, STR. BUS TITLE: PANEL NO.13, WIRING DIAGRAM - MC. FORD BESS 230KV LINE SEL411L(PRI) FIB.LINE DIFF/DIST, SEL411L(SEC) FIB.LINE DIFF/DIST, SEL351S(BF/RCLS

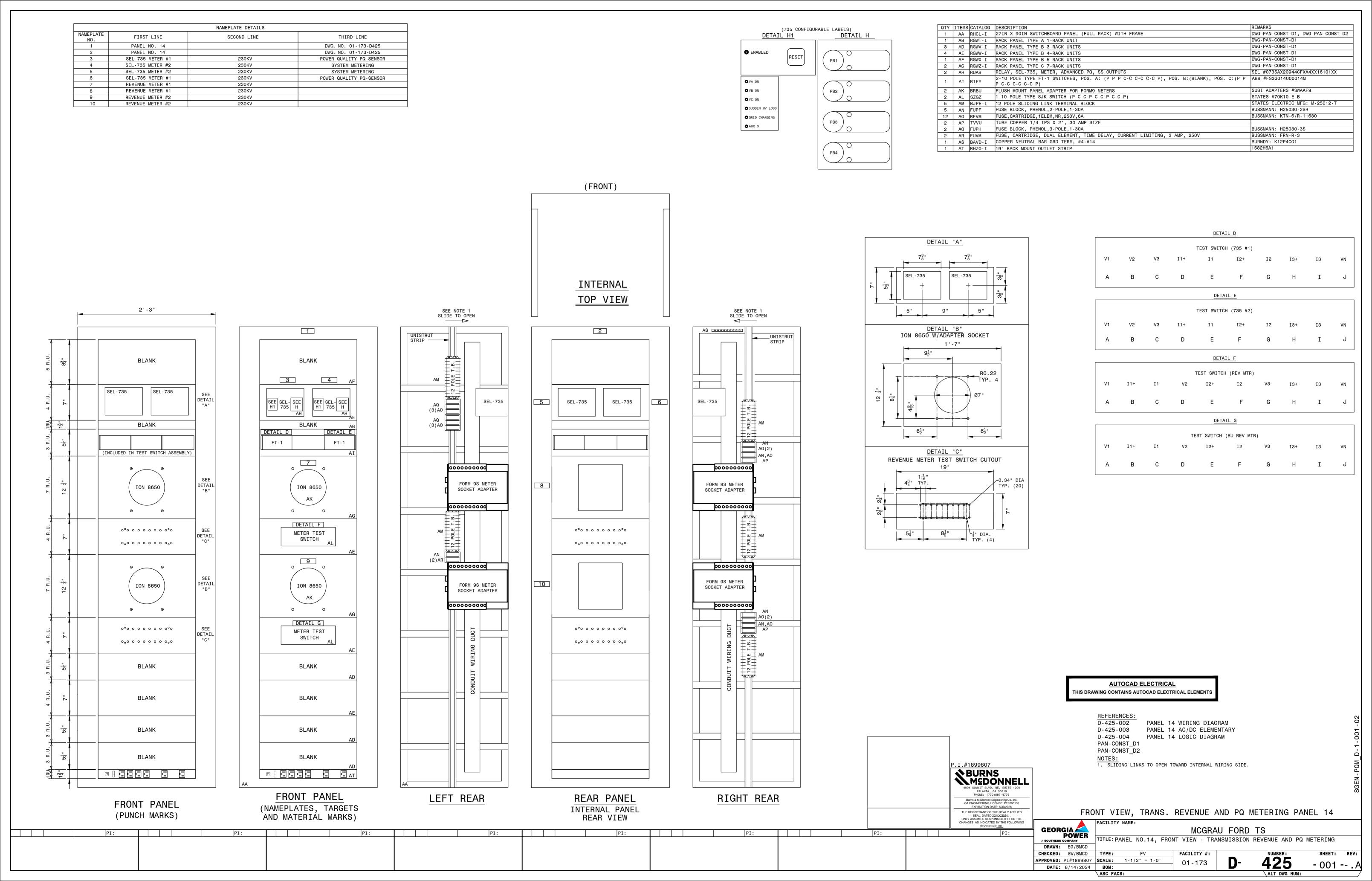


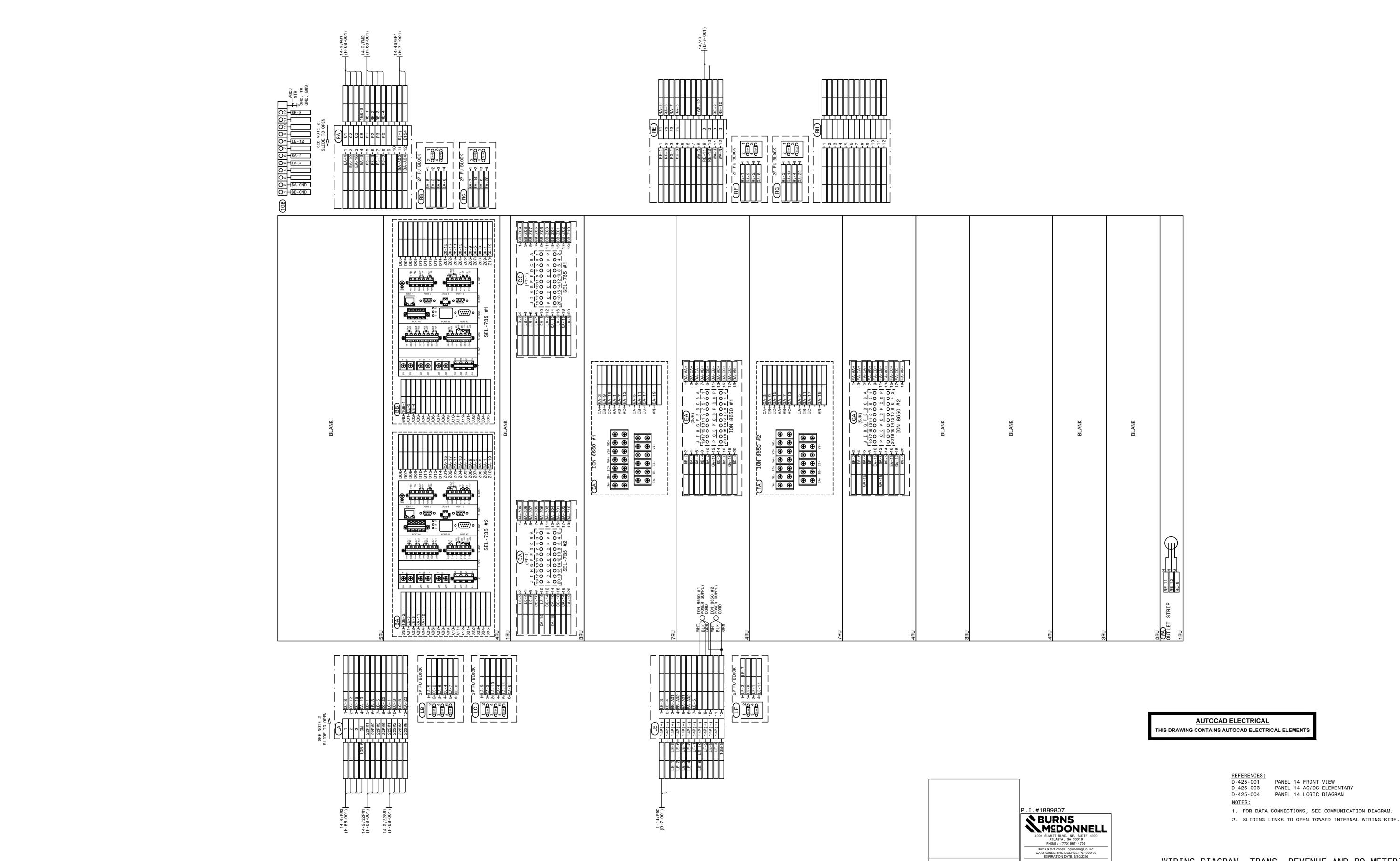












**AUTOCAD ELECTRICAL** THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

WD

N.T.S.

THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED XX/XX/2024.
ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISION(S).00.

**GEORGIA** 

DRAWN: EG/BMCD

**POWER** 

CHECKED: SW/BMCD TYPE:

APPROVED: PI#1899807 | SCALE:

DATE: 8/14/2024 BOM:

\ASC FACS:

WIRING DIAGRAM, TRANS. REVENUE AND PQ METERING PANEL 14

FACILITY #:

01 - 173

PANEL 14 FRONT VIEW PANEL 14 AC/DC ELEMENTARY

PANEL 14 LOGIC DIAGRAM

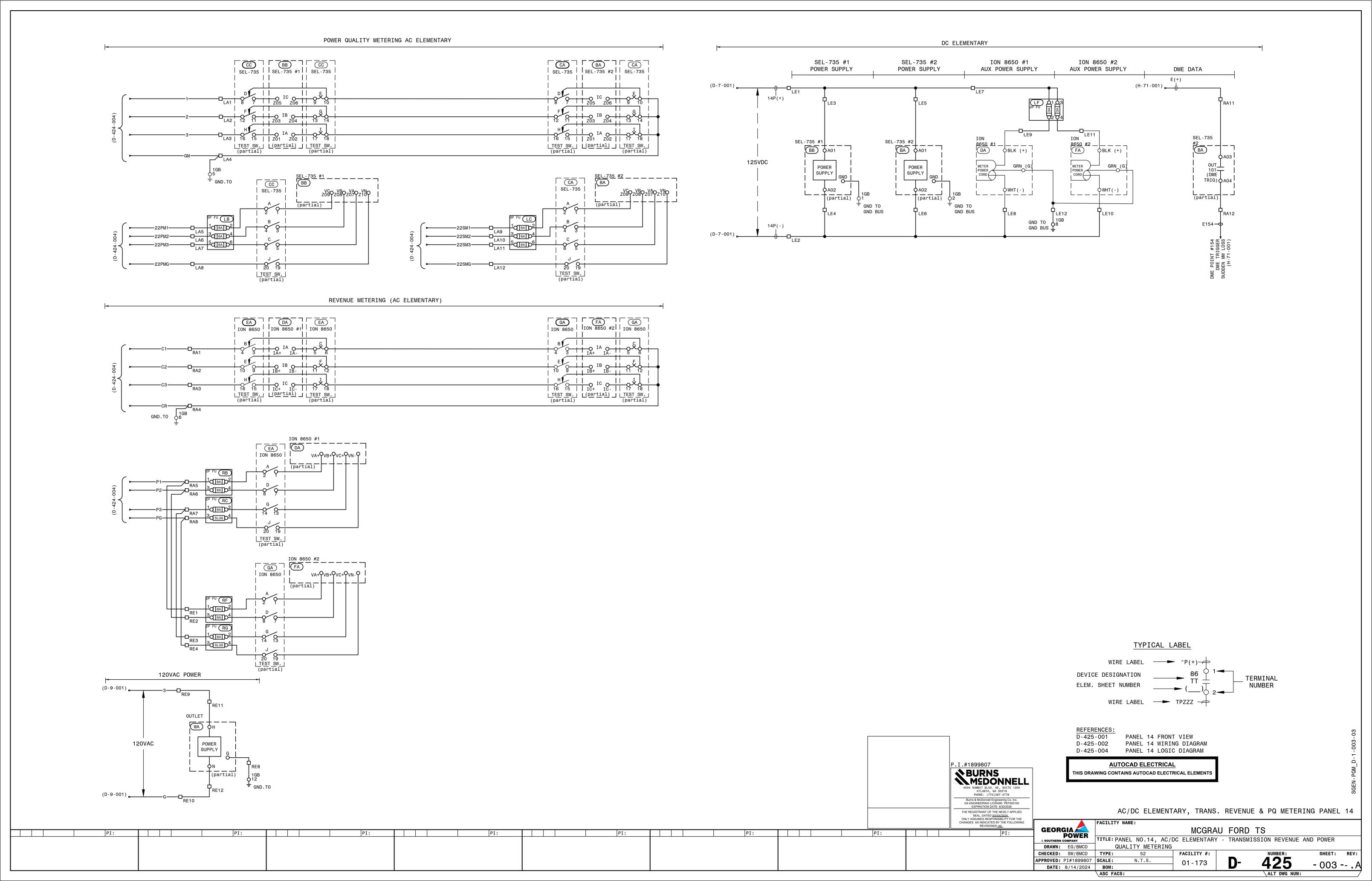
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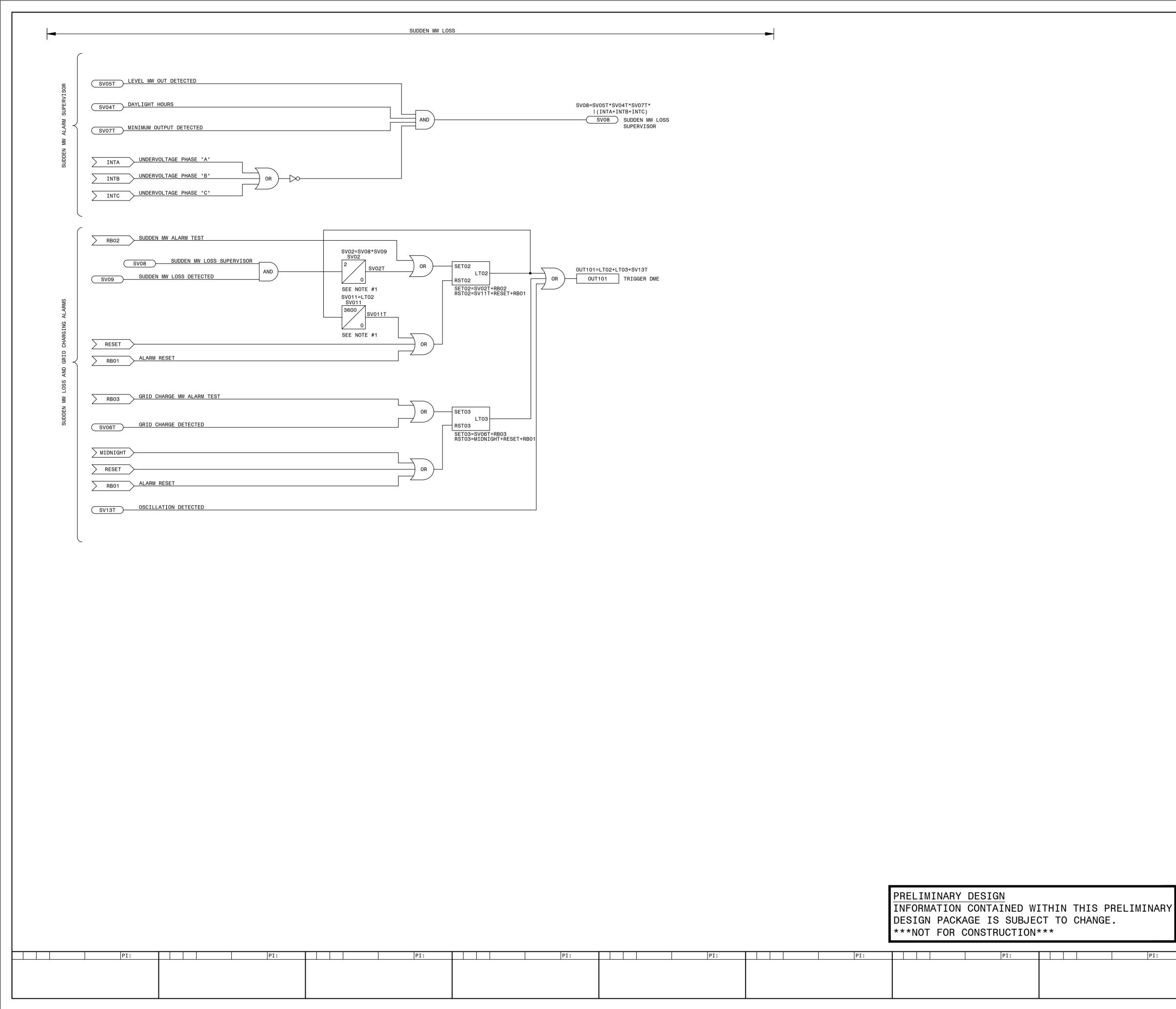
MCGRAU FORD TS

TITLE: PANEL NO.14, WIRING DIAGRAM - TRANSMISSION REVENUE AND PQ METERING

425

SHEET: REV: -002 - .A





NOTE:
1. SEL-735P TIMER UNITS ARE SECONDS. SEL INTERNAL RELAY ELEMENT OR SETTING (IF RECESSED IT WAS DEVELOPED ON THIS SHEET) EXTERNAL INPUT, PUSHBUTTON OR REMOTE BIT XXXX SEL RELAY OUTPUT SEL TIMER (IN CYCLES) NOT (INVERT INPUT) **REFERENCES:** D-425-001 PANEL 14 FRONT VIEW PANEL 14 WIRING DIAGRAM
PANEL 14 AC/DC ELEMENTARY D-425-002 D-425-003

SHEET: REV:

-004 -- .A

LOGIC DIAGRAM, TRANS. REVENUE & PQ METERING PANEL 14 GEORGIA
POWER
A SOUTHERN COMPANY

TITLE: PANEL NO.14, LOGIC DIAGRAM - TRANSMISSION REVENUE AND POWER QUALITY

FACILITY #:

DRAWN: EG/BMCD METERING

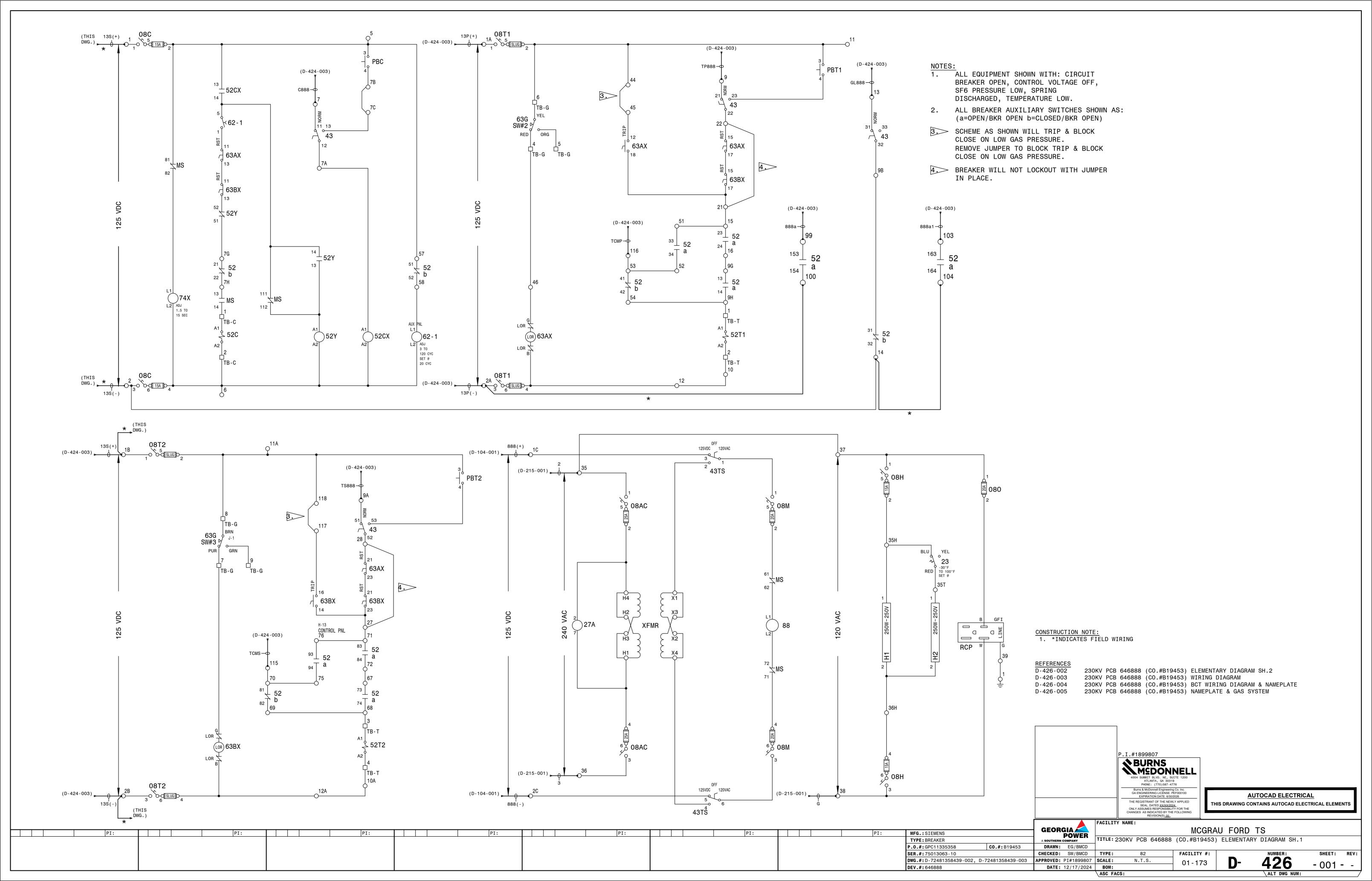
52L

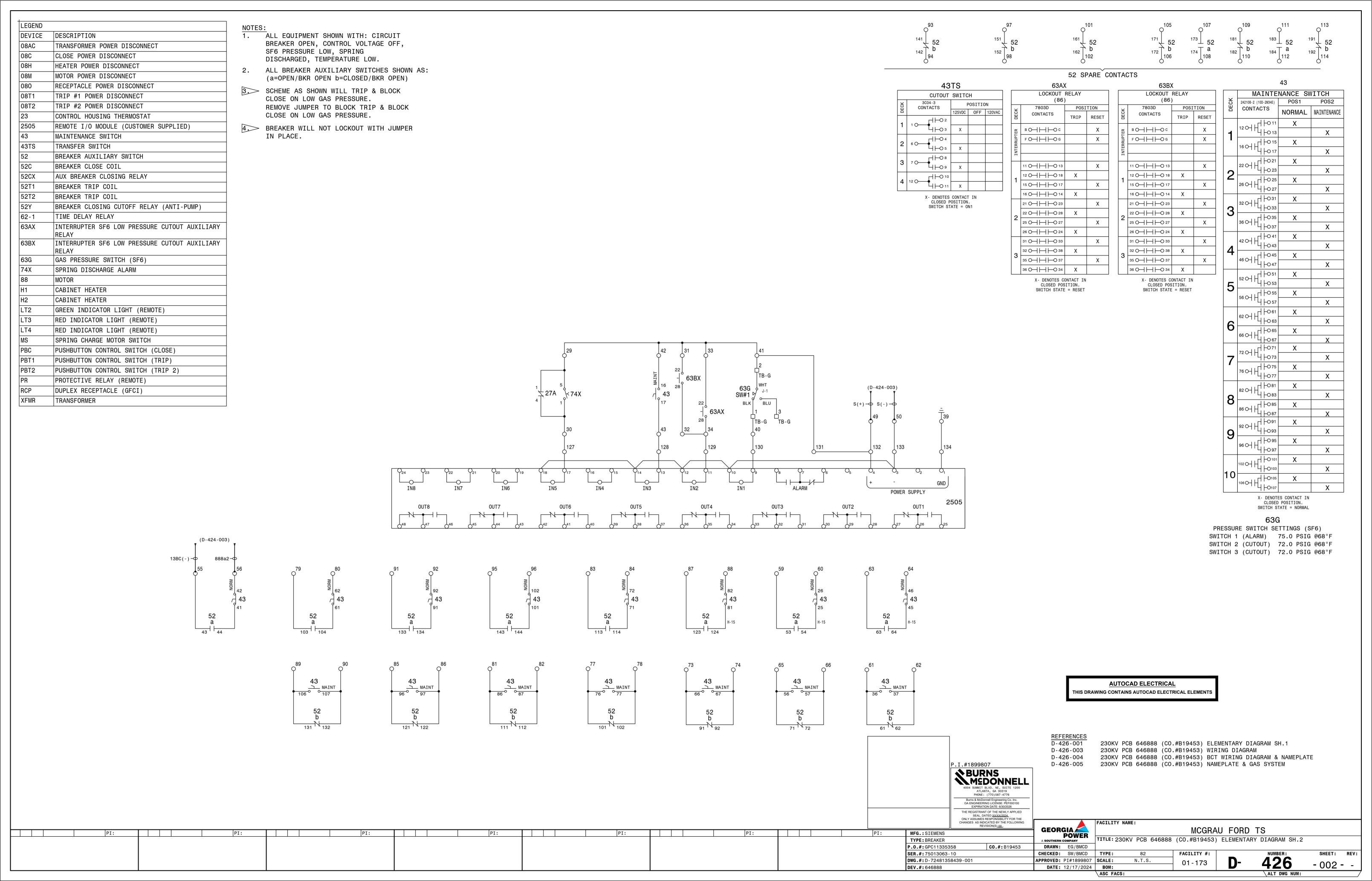
N.T.S.

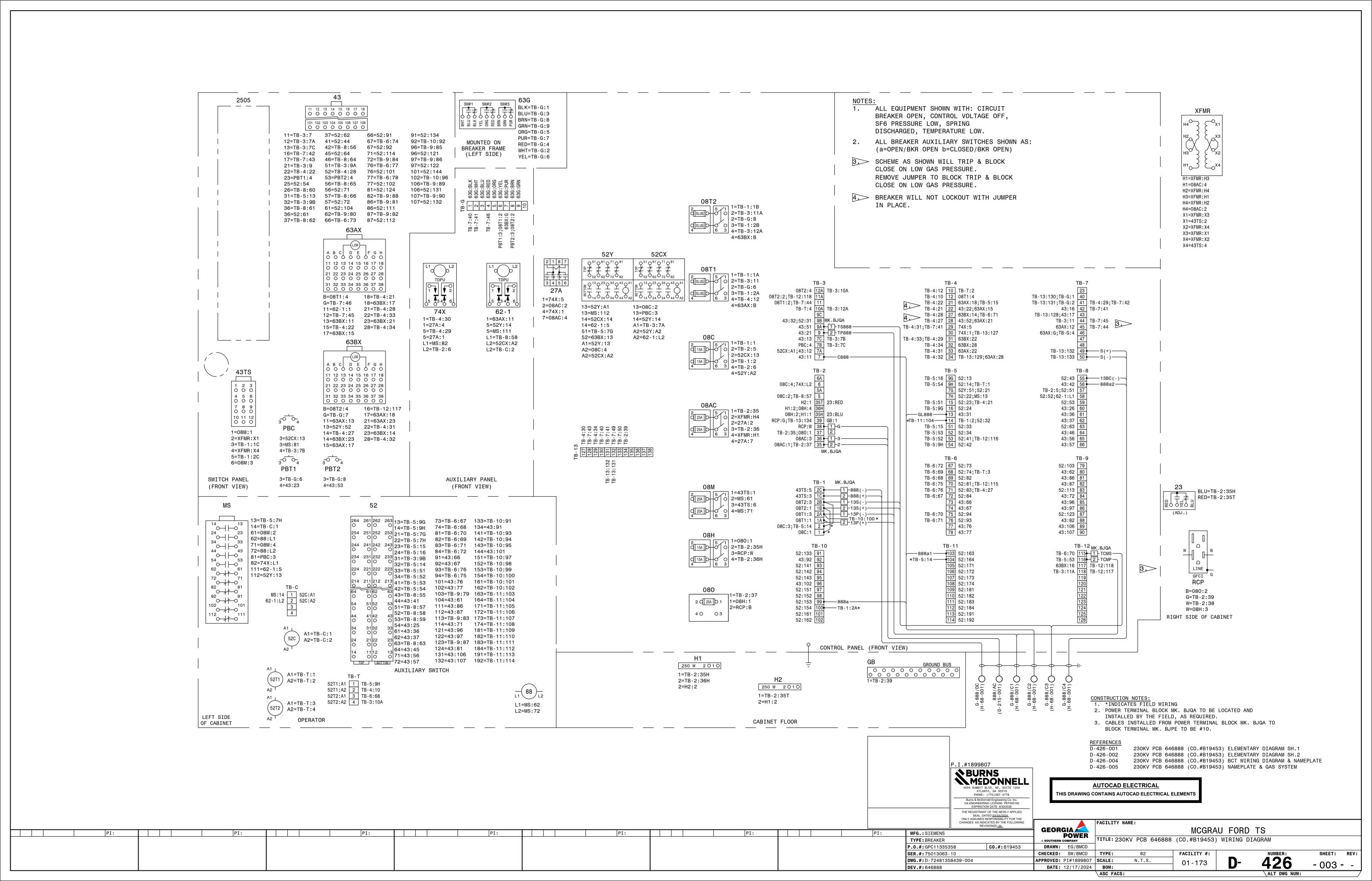
CHECKED: SW/BMCD TYPE:

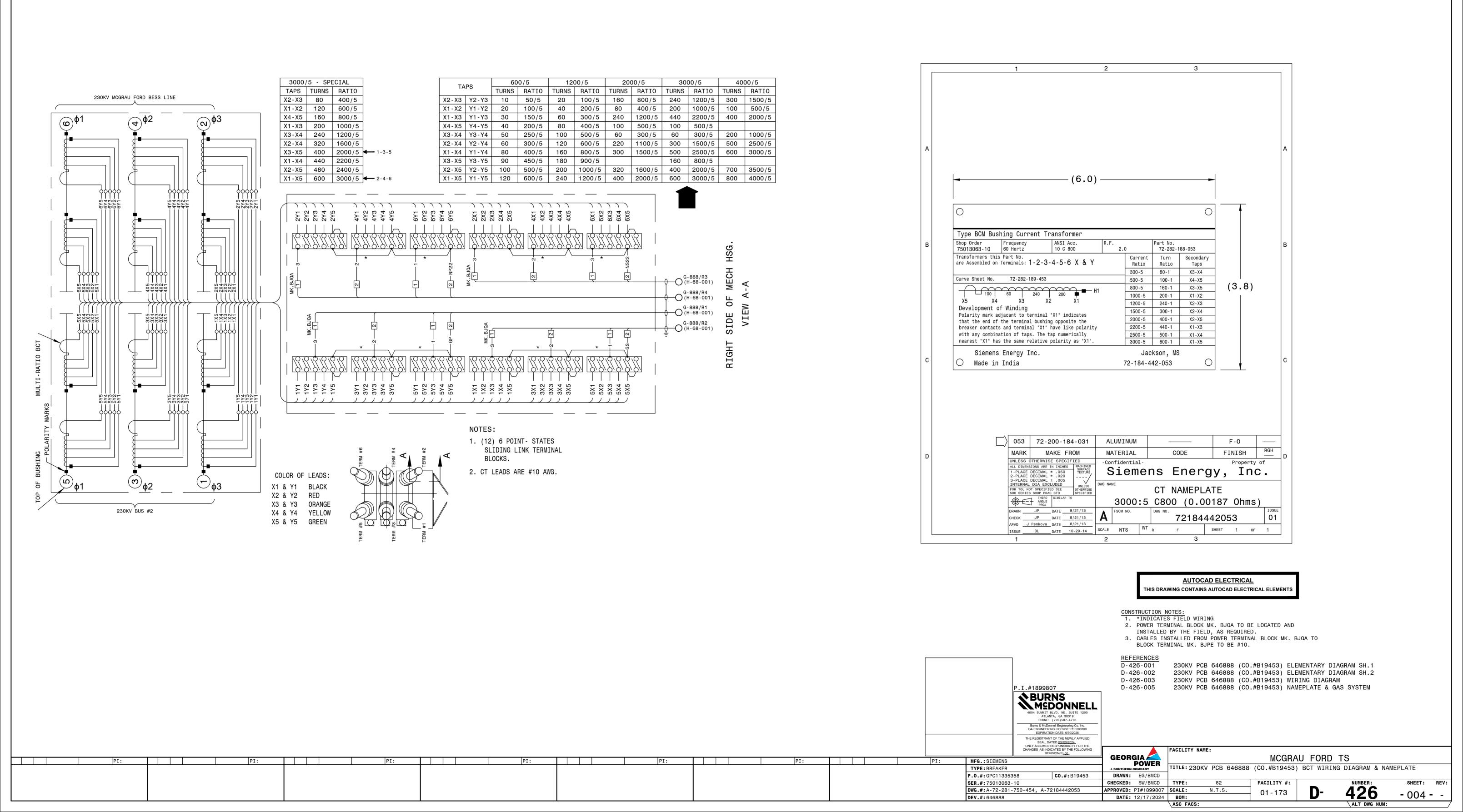
APPROVED: PI#1899807 SCALE:

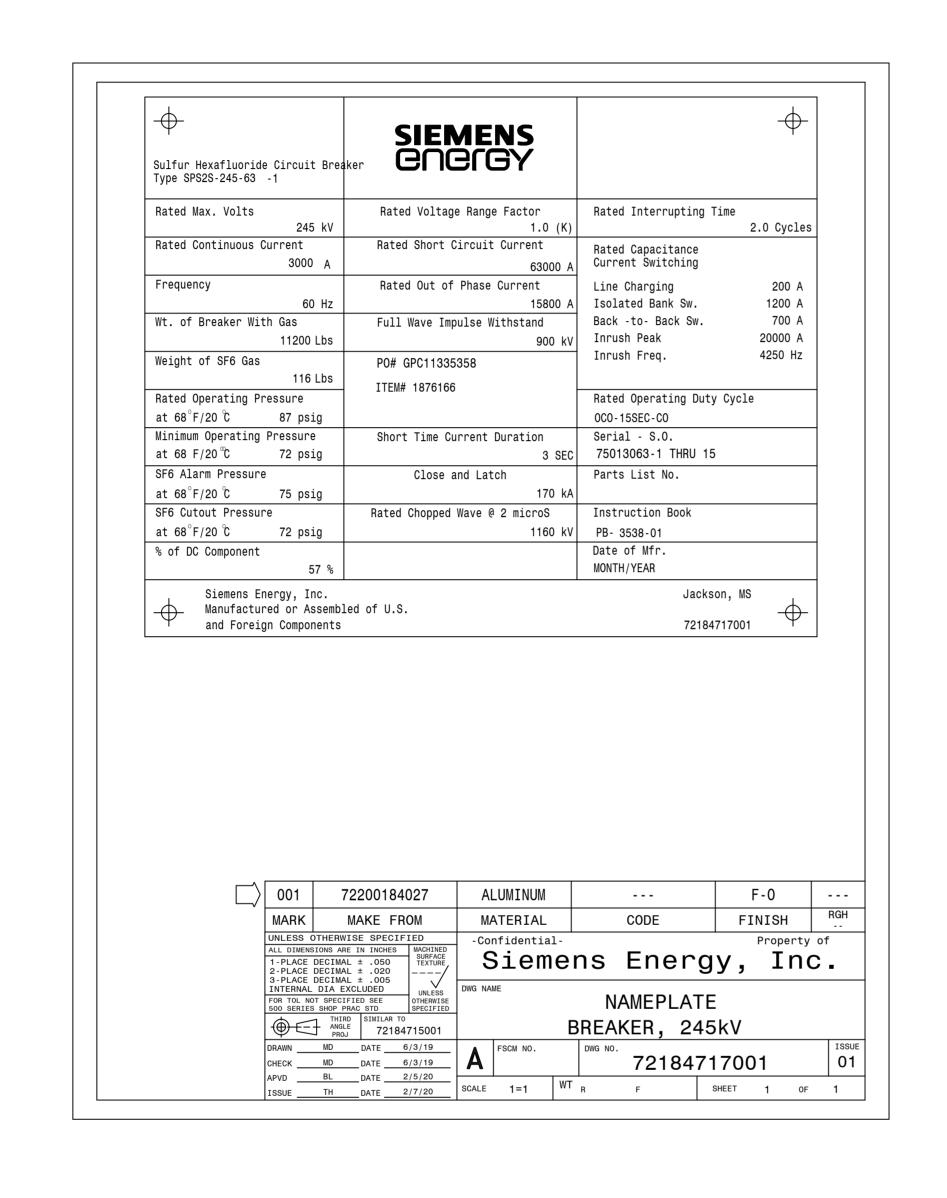
DATE: 8/14/2024 BOM:

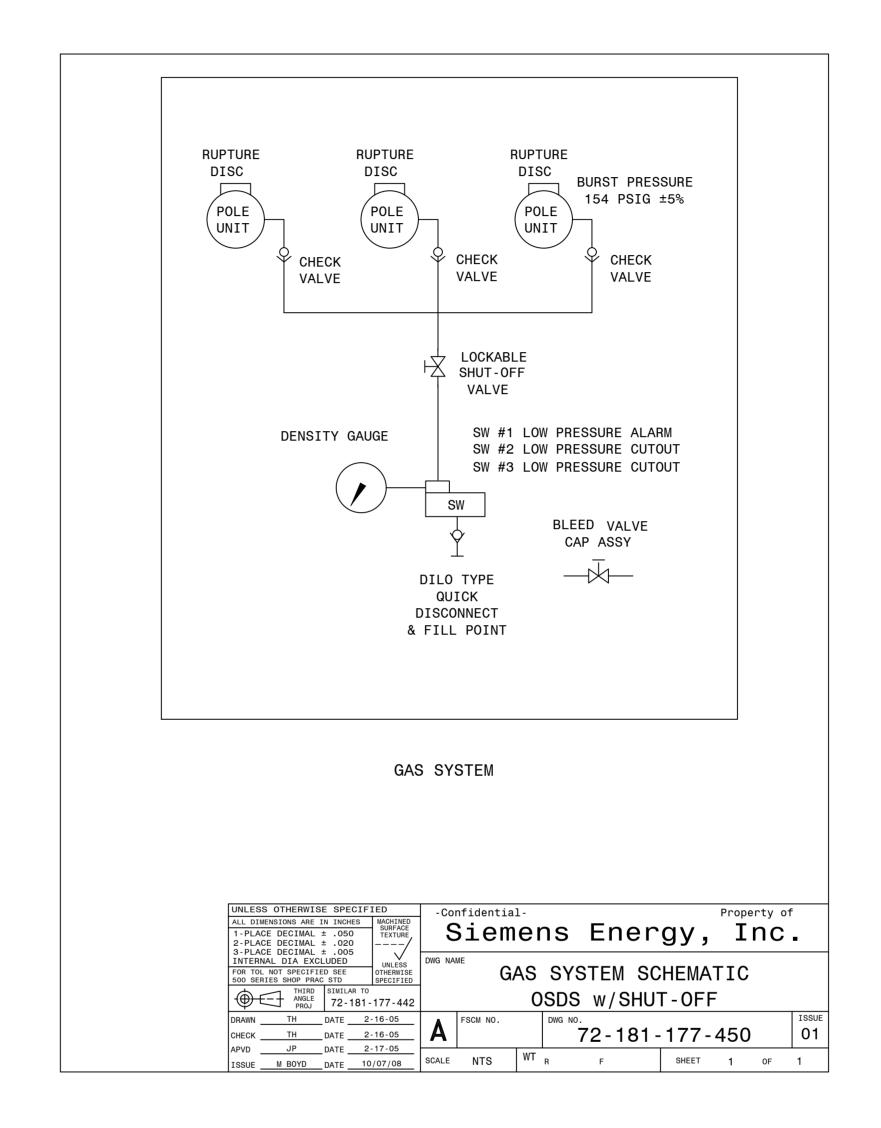












DWG.#: A-72184717001, A-72-181-177-450

DEV.#:646888

**AUTOCAD ELECTRICAL** THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

82

N.T.S.

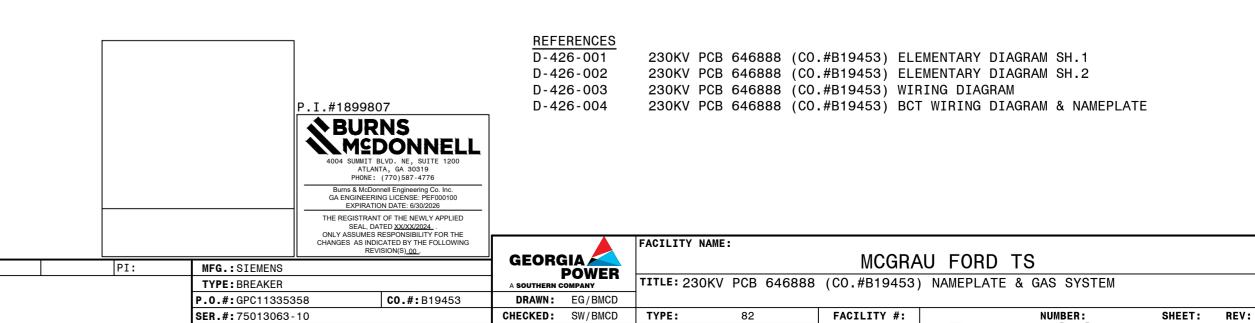
ASC FACS:

426

- 005 - -

D-

01 - 173



APPROVED: PI#1899807 SCALE:

DATE: 12/17/2024 BOM:

