

ALASKA RAILROAD CORPORATION



POTTER

SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76

MANUAL MONITORED SWITCH



NOTES:

1. ALL WIRING IN BUNGALOW TO BE #16 AWG FLEX
UNLESS OTHERWISE NOTED.

LEGEND:

- △ EQUALIZER ②
∠ LINE ARRESTER

○ CLEARVIEW ARRESTOR W/ BAKELITE BASE ③

○ CLEARVIEW ARRESTOR W/ 3 POST PORCELAIN BASE ④

- △ NO 6 AWG THNN/THWN FLEX WIRE WITH RED SHEATH (B12)
△ NO 6 AWG THNN/THWN FLEX WIRE WITH BLACK SHEATH (N12)
△ NO 6 AWG THNN/THWN FLEX WIRE WITH GREEN SHEATH (SAFETY GROUND)

Ⓢ TWISTED WIRE TWO TURNS PER FOOT

MATERIAL REFERENCE IDENTIFICATION NUMBER

PTC DEVICE COUNT NUMBER

OS INSTALL COLORED PLANS

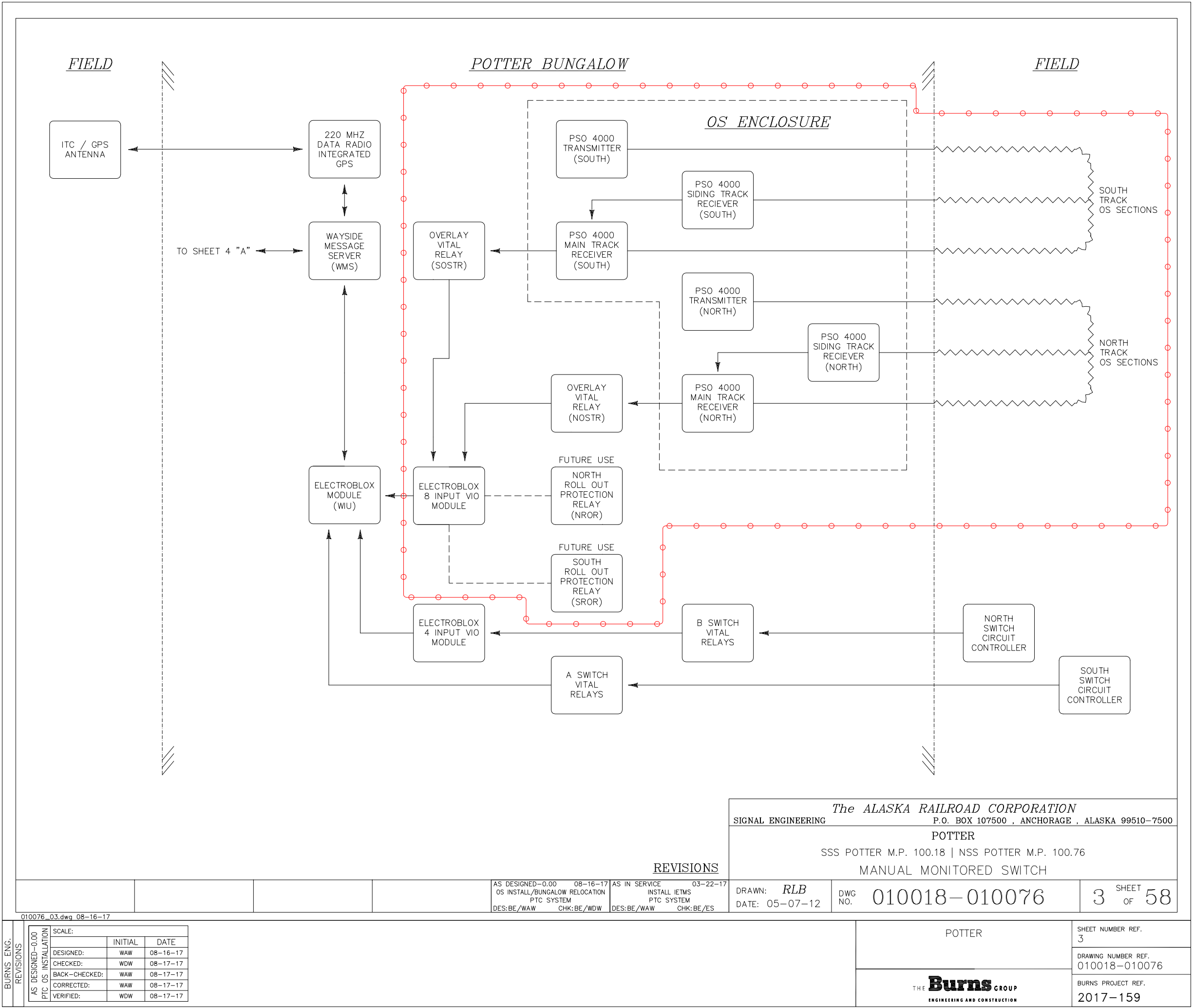
RED = ⊕ = IN
YELLOW = ⊗ = OUT

REVISIONS

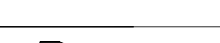
The ALASKA RAILROAD CORPORATION		
P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500		
POTTER		
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76		
MANUAL MONITORED SWITCH		
DRAWN: RLB DATE: 05-07-12	DWG NO. 010018-010076	0 SHEET OF 58

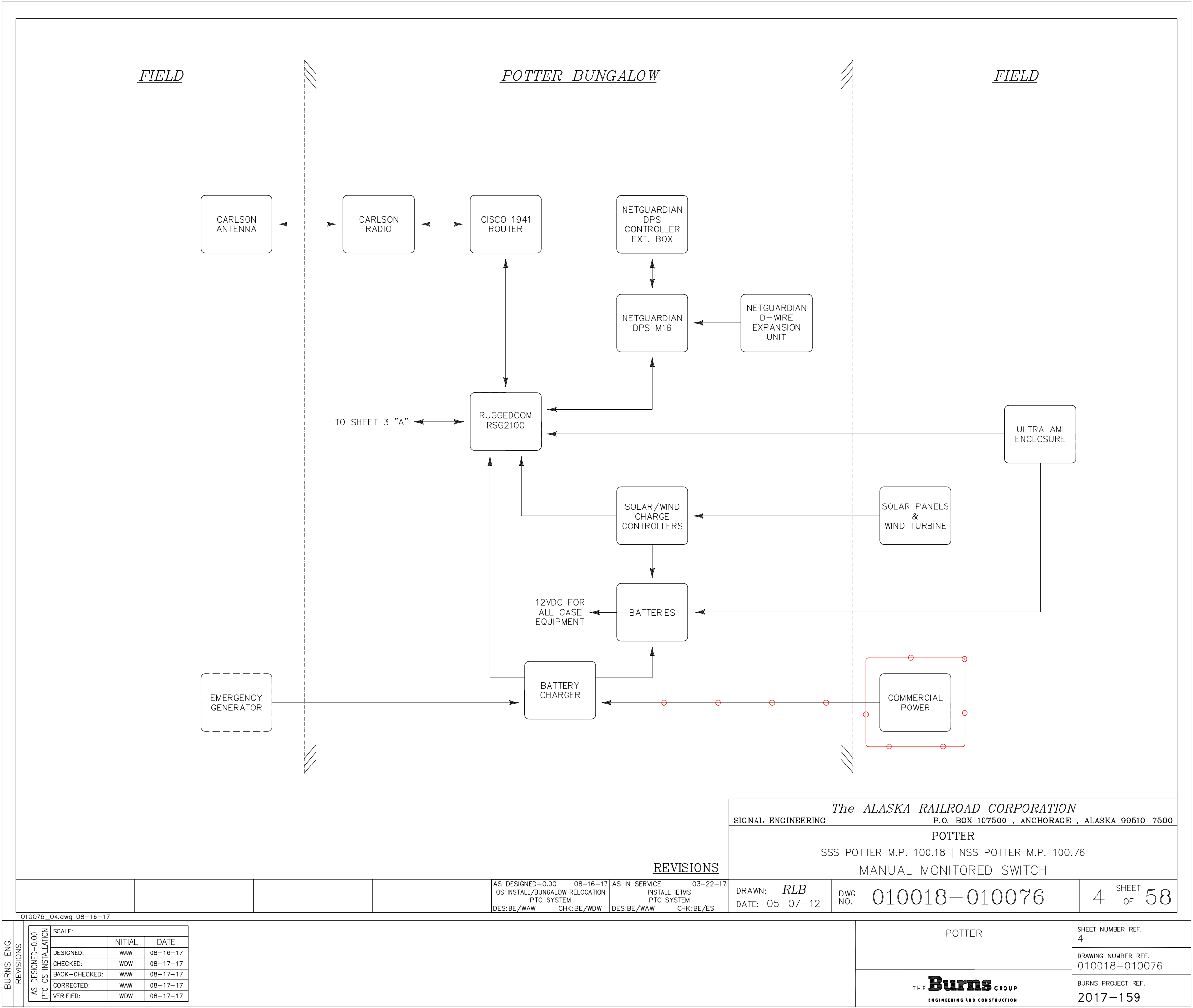
010076_00.dwg 08-16-17

BURNS ENG. REVISIONS	SCALE:			POTTER		SHEET NUMBER REF. 0
	AS DESIGNED-0.00	INITIAL	DATE	Burns BURNS ENGINEERING, INC. 215 978-7700 TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600 PHILADELPHIA, PA 19103		DRAWING NUMBER REF. 010018-010076
	PTC OS INSTALLATION	DESIGNED: WAW	08-16-17			BURNS PROJECT REF. 2017-159
		CHECKED: WDW	08-17-17			
		BACK-CHECKED: WAW	08-17-17			
		CORRECTED: WAW	08-17-17			
		VERIFIED: WDW	08-17-17			



<i>The ALASKA RAILROAD CORPORATION</i>		
SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500		
POTTER		
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76		
MANUAL MONITORED SWITCH		
REVISIONS	DRAWN: <i>RLB</i> DATE: 05-07-12	DWG NO. 010018-010076
		3 SHEET OF 58

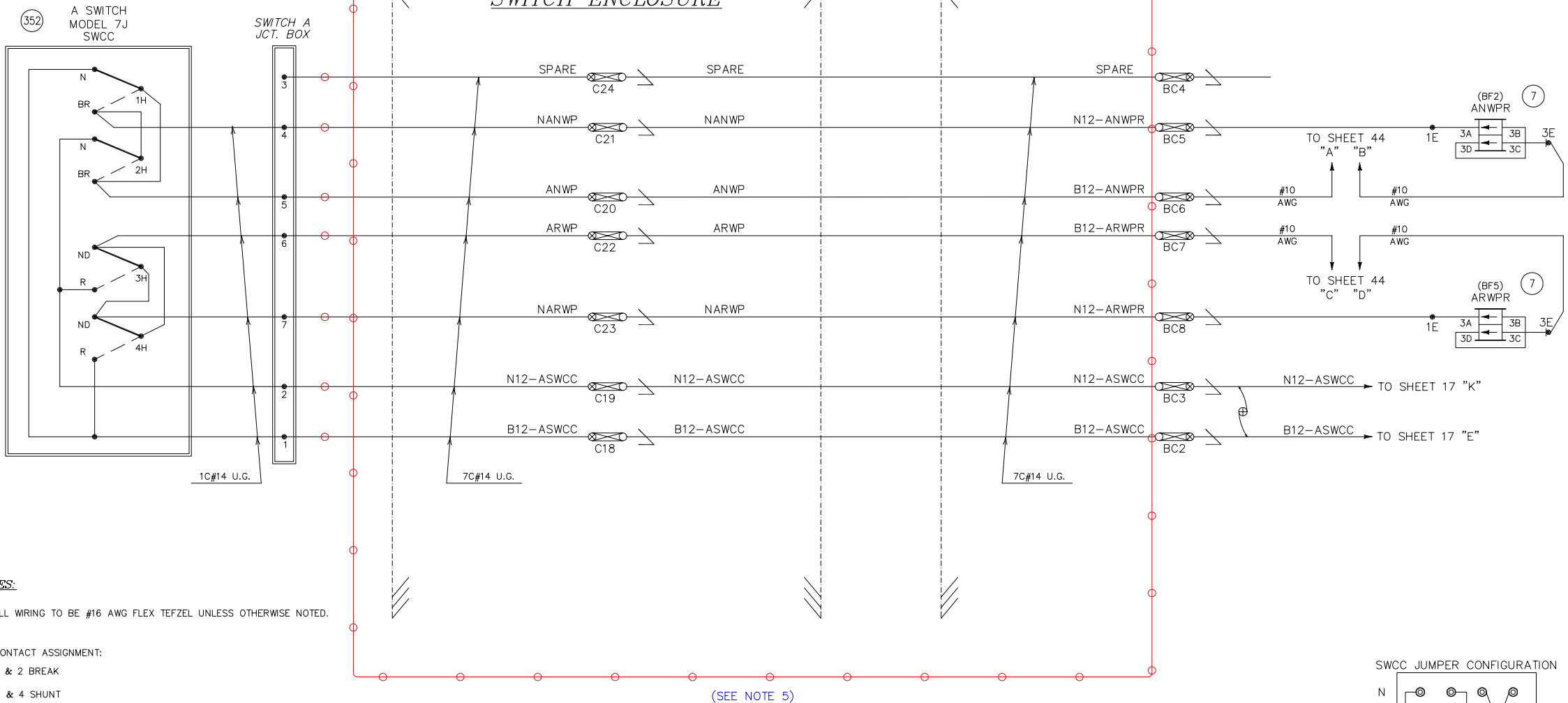
			AS DESIGNED-0.00 OS INSTALL/BUNGALOW RELOCATION PTC SYSTEM DES:BE/WAW			08-16-17			AS IN SERVICE INSTALL IETMS PTC SYSTEM DES:BE/WAW			03-22-17			DRAWN: <i>RLB</i> DATE: 05-07-12			DWG NO. 010018-010076			3 OF 58 SHEET			
010076_03.dwg 08-16-17																								
BURNS ENG. REVISIONS	AS DESIGNED-0.00 PTC OS INSTALLATION	SCALE:																						
			INITIAL	DATE																				
		DESIGNED:	WAW	08-16-17																				
		CHECKED:	WDW	08-17-17																				
		BACK-CHECKED:	WAW	08-17-17																				
		CORRECTED:	WAW	08-17-17																				
		VERIFIED:	WDW	08-17-17																				
												POTTER						SHEET NUMBER REF. 3						
																		DRAWING NUMBER REF. 010018-010076						
																		BURNS PROJECT REF. 2017-159						



FIELD — SSS POTTER

SSS POTTER
SWITCH ENCLOSURE

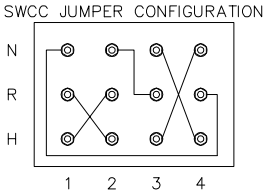
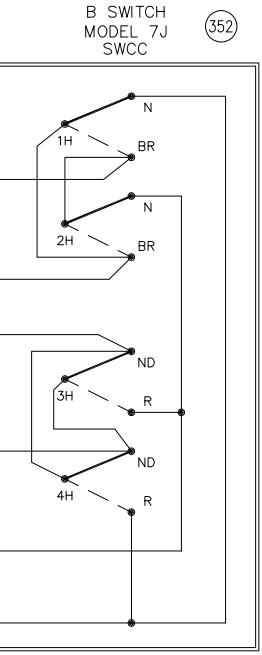
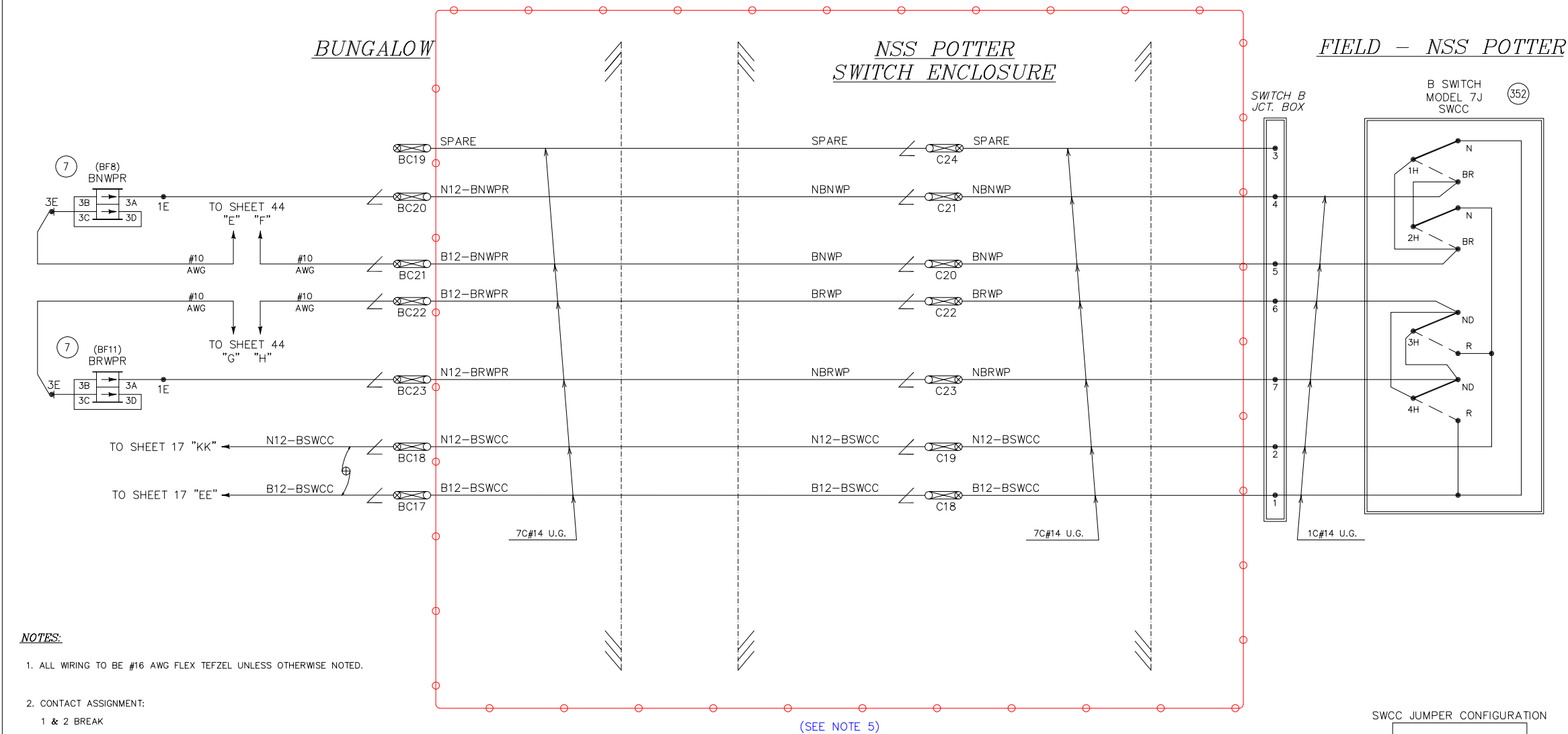
BUNGALOW



REVISIONS

The ALASKA RAILROAD CORPORATION			
SIGNAL ENGINEERING		P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
POTTER			
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76			
MANUAL MONITORED SWITCH			
DRAWN: RLB	DWG NO.	010018-010076	5 SHEET OF 58
DATE: 05-07-12			

BURNS ENG. REVISIONS	AS DESIGNED-0.00			POTTER		SHEET NUMBER REF.	
	PTC 05 INSTALLATION					5	
	SCALE:					DRAWING NUMBER REF.	
		INITIAL	DATE			010018-010076	
	DESIGNED:	WAW	08-16-17			BURNS PROJECT REF.	
	CHECKED:	WDW	08-17-17			2017-159	
	BACK-CHECKED:	WAW	08-17-17				
	CORRECTED:	WAW	08-17-17				
	VERIFIED:	WDW	08-17-17				
				THE Burns GROUP ENGINEERING AND CONSTRUCTION			



SWITCH CIRCUIT CONTROLLER LOCATED ON NORMALLY CLOSED SIDE OF SWITCH.

- NOTES:**
- ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
 - CONTACT ASSIGNMENT:
1 & 2 BREAK
3 & 4 SHUNT
 - CONTACT ADJUSTMENT:
ADJUST CONTACTS 1 & 2 SO N CONTACTS ARE JUST MADE WITH 3/16" GAUGE IN POINT.
ADJUST CONTACTS 3 & 4 SO B-R CONTACTS ARE MADE WITH 1/4" GAUGE IN POINT.
 - SWCC LEGEND:
N - FULL NORMAL TO, BUT NOT INCLUDING, 1/4" FROM NORMAL
BR - 1/4" FROM NORMAL TO FULL REVERSE
ND - 1/4" FROM REVERSE TO FULL NORMAL
R - FULL REVERSE TO, BUT NOT INCLUDING, 1/4" FROM REVERSE
 - EXISTING 7C#14 SWCC CABLE (TERMINALS BC17-23) AT SSS POTTER BUNGALOW TO BE REMOVED. SEE SHEET 50.

The ALASKA RAILROAD CORPORATION
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POTTER
SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76
MANUAL MONITORED SWITCH

DRAWN: *RLB* DWG NO. 010018-010076
DATE: 05-07-12

6 SHEET OF 58

AS DESIGNED-0.00 08-16-17 OS INSTALL/BUNGALOW RELOCATION PTC SYSTEM DES:BE/WAW CHK:BE/WDW		AS IN SERVICE 03-22-17 INSTALL IETMS PTC SYSTEM DES:BE/WAW CHK:BE/ES	
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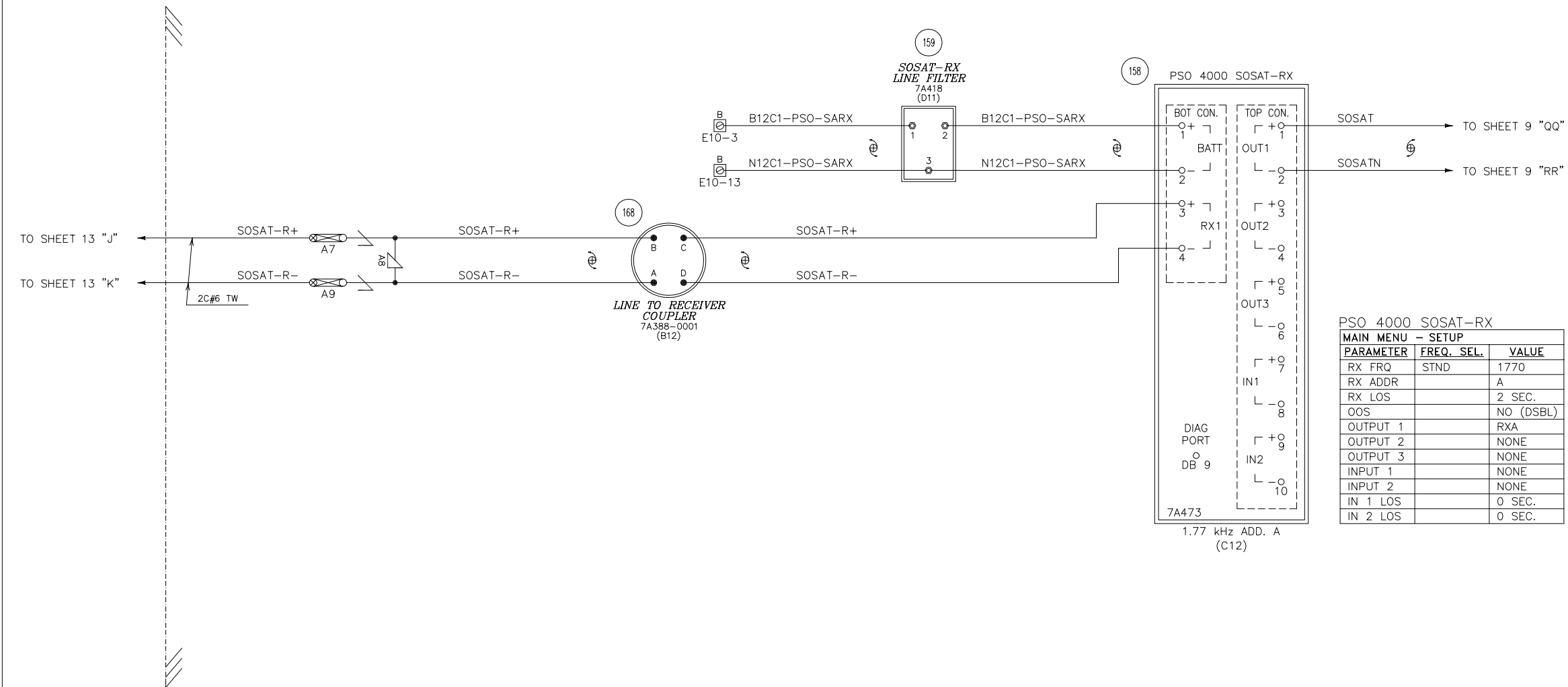
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	CHECKED:	WDW	08-17-17
	BACK-CHECKED:	WAW	08-17-17
	CORRECTED:	WAW	08-17-17
	VERIFIED:	WDW	08-17-17

POTTER

THE Burns GROUP
ENGINEERING AND CONSTRUCTION

SHEET NUMBER REF. 6
DRAWING NUMBER REF. 010018-010076
BURNS PROJECT REF. 2017-159

OS ENCLOSURE



PSO 4000 SOSAT-RX

MAIN MENU - SETUP		
PARAMETER	FREQ. SEL.	VALUE
RX FRQ	STND	1770
RX ADDR		A
RX LOS		2 SEC.
OOS		NO (DSBL)
OUTPUT 1		RXA
OUTPUT 2		NONE
OUTPUT 3		NONE
INPUT 1		NONE
INPUT 2		NONE
IN 1 LOS		0 SEC.
IN 2 LOS		0 SEC.

NOTES:

1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.

ALL NEW

The ALASKA RAILROAD CORPORATION

SIGNAL ENGINEERING

P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500

POTTER

SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76

MANUAL MONITORED SWITCH

AS DESIGNED-0.00 OS INSTALL/BUNGALOW RELOCATION PTC SYSTEM DES:BE/WAW CHK:BE/WDW	DRAWN: BE DATE: 08-16-17	DWG NO. 010018-010076	10 SHEET OF 58
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BURNS ENG. REVISIONS

AS DESIGNED-0.00 PTC OS INSTALLATION	SCALE:	INITIAL	DATE
DESIGNED:	WAW	08-16-17	
CHECKED:	WDW	08-17-17	
BACK-CHECKED:	WAW	08-17-17	
CORRECTED:	WAW	08-17-17	
VERIFIED:	WDW	08-17-17	

POTTER

THE Burns GROUP

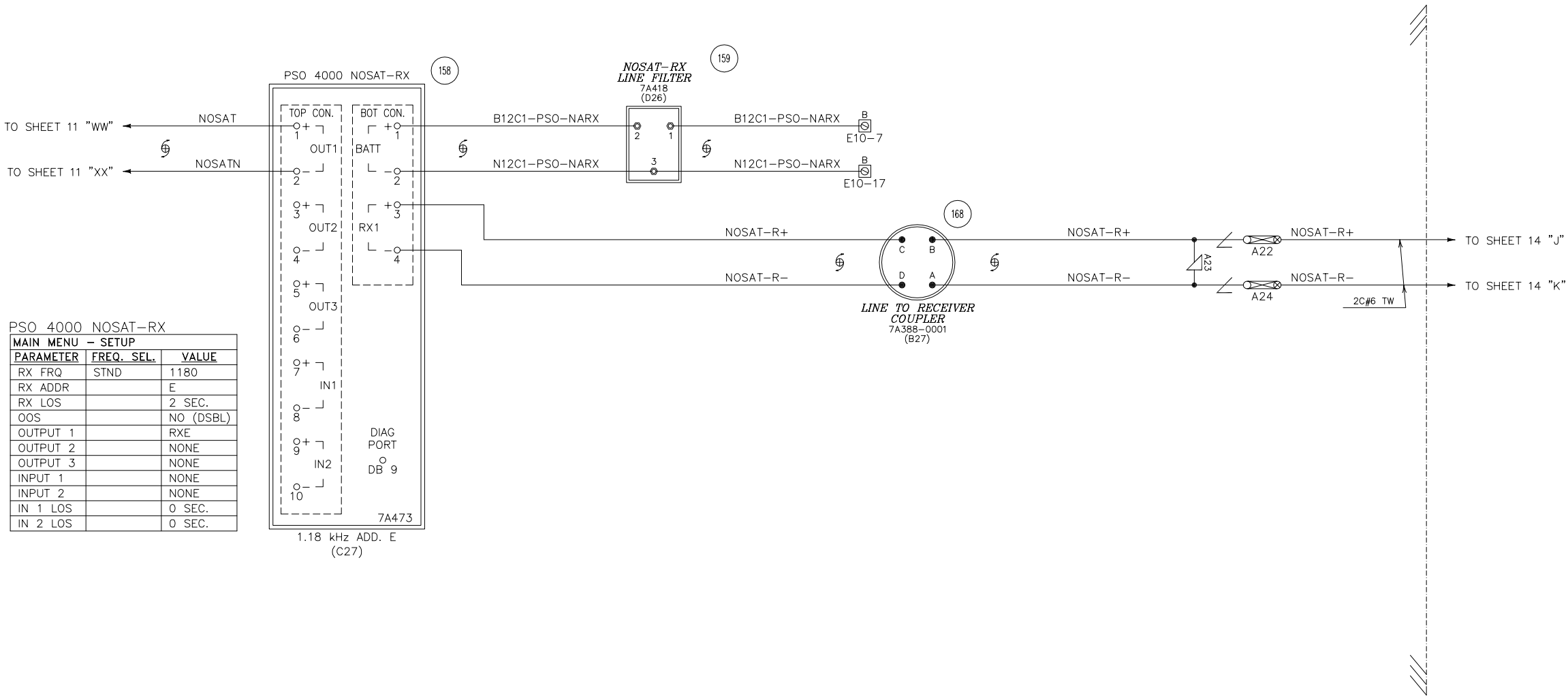
ENGINEERING AND CONSTRUCTION

SHEET NUMBER REF. 10

DRAWING NUMBER REF. 010018-010076

BURNS PROJECT REF. 2017-159

OS ENCLOSURE



PSO 4000 NOSAT-RX

MAIN MENU - SETUP		
PARAMETER	FREQ. SEL.	VALUE
RX FRQ	STND	1180
RX ADDR		E
RX LOS		2 SEC.
OOS		NO (DSBL)
OUTPUT 1		RXE
OUTPUT 2		NONE
OUTPUT 3		NONE
INPUT 1		NONE
INPUT 2		NONE
IN 1 LOS		0 SEC.
IN 2 LOS		0 SEC.

1.18 kHz ADD. E
(C27)

- NOTES:**
- ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.

ALL NEW

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

DRAWN: BE
DATE: 08-16-17

DWG NO. 010018-010076

12 SHEET OF 58

BURNS ENG. REVISIONS	AS DESIGNED-0.00	SCALE:		
	PTC OS INSTALLATION	DESIGNED:	WAW	08-16-17
		CHECKED:	WDW	08-17-17
		BACK-CHECKED:	WAW	08-17-17
		CORRECTED:	WAW	08-17-17
		VERIFIED:	WDW	08-17-17

POTTER

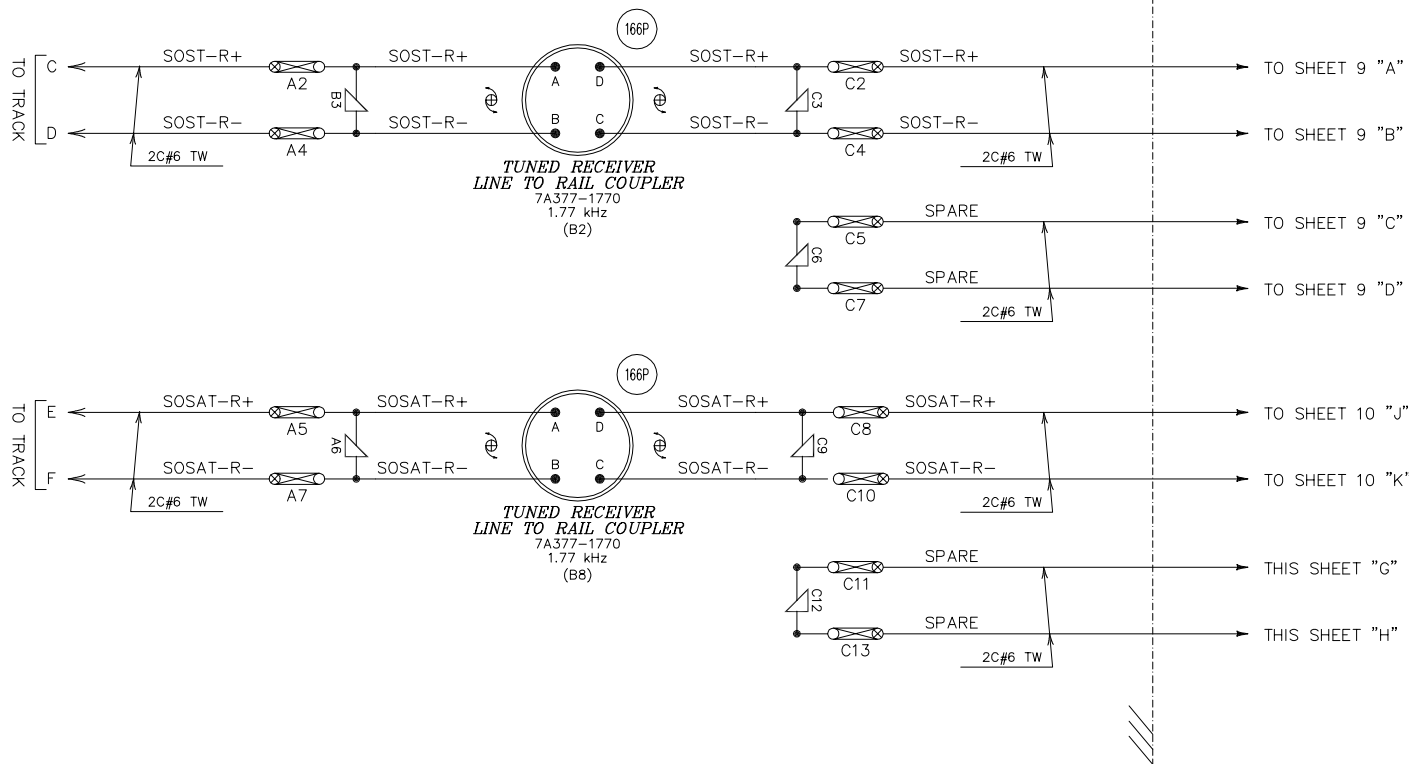
SHEET NUMBER REF.
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DRAWING NUMBER REF.
010018-010076

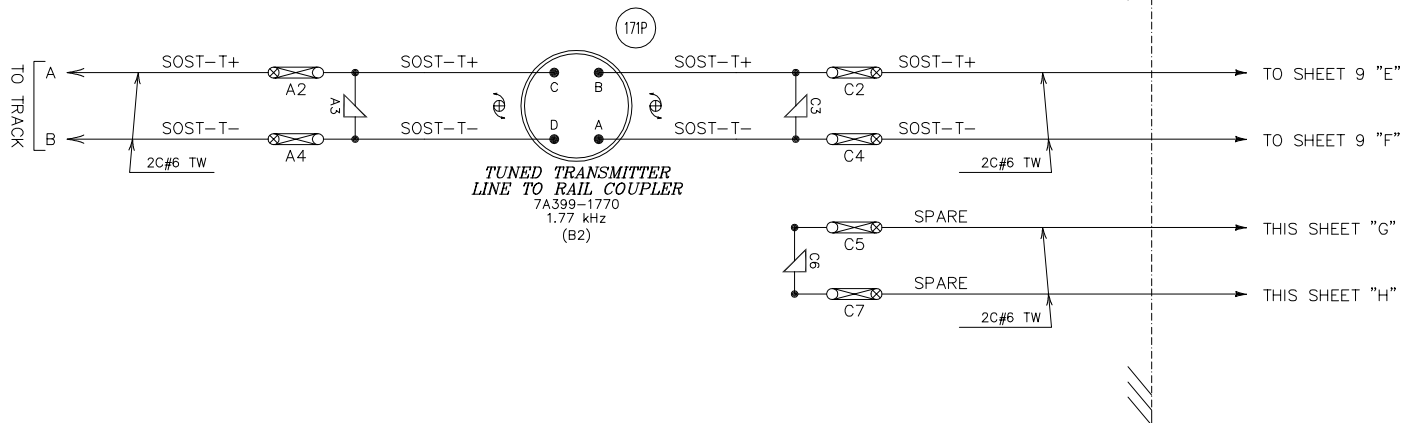
BURNS PROJECT REF.
2017-159

THE **Burns** GROUP
ENGINEERING AND CONSTRUCTION

SSS CLEARANCE ENCLOSRE



SSS SWITCH POINT ENCLOSURE



NOTES:

1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
2. ALL PSO LINE COUPLERS IN OUTLYING CASES SHOULD BE LOCATED WITHIN 100 FT. OF TRACK CONNECTIONS.

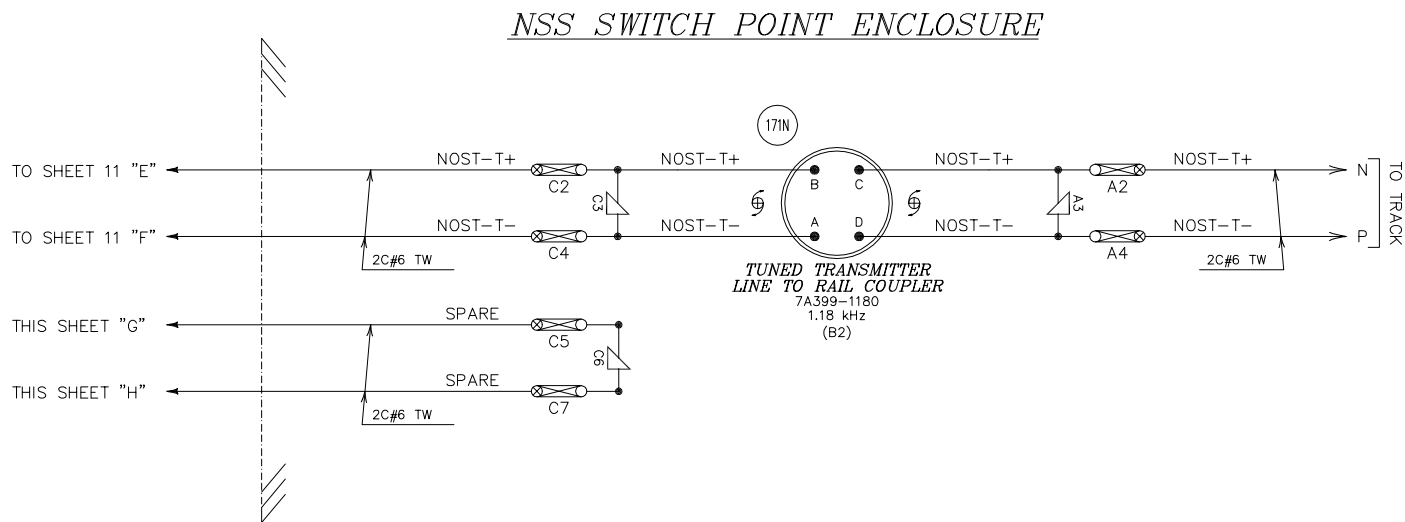
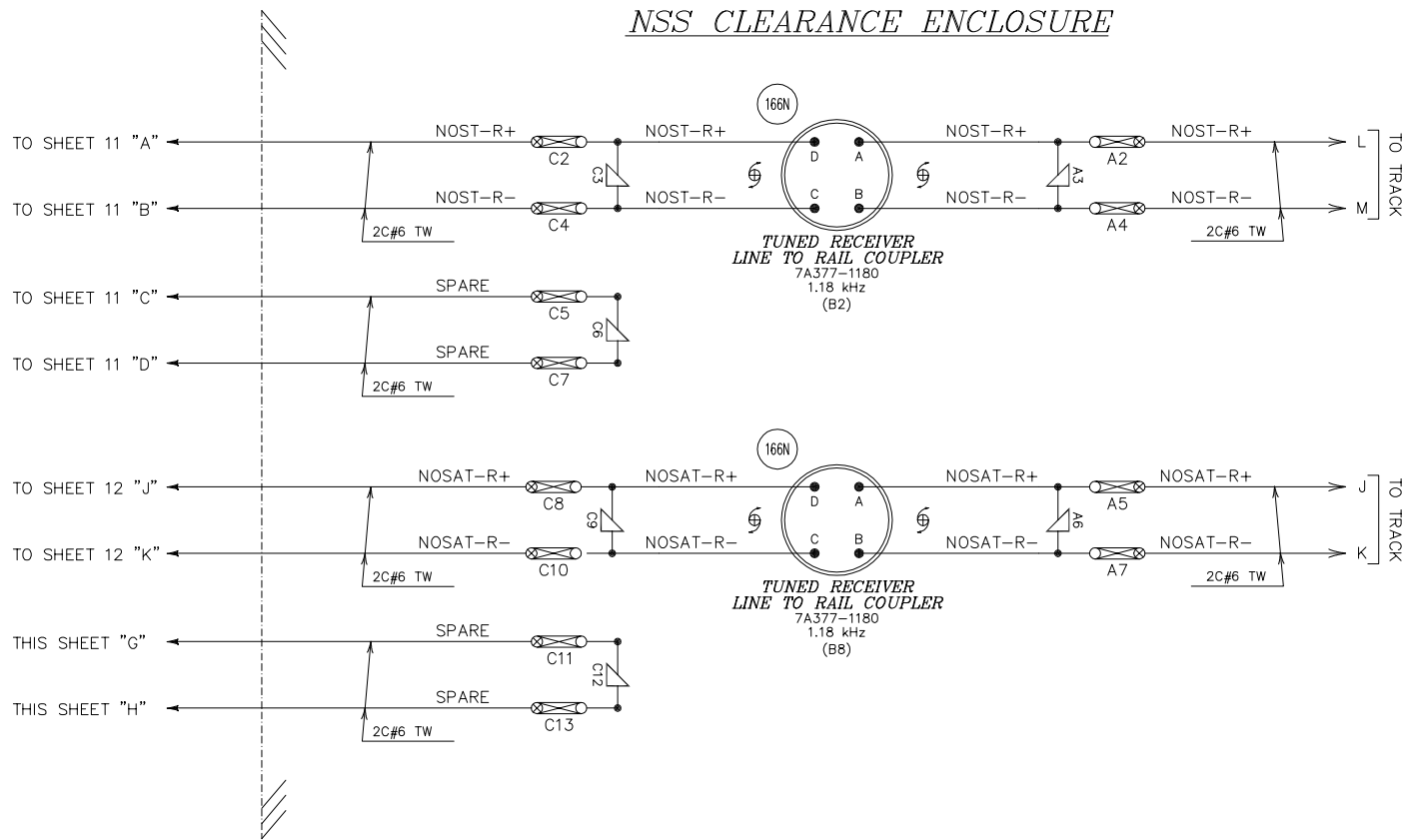
ALL NEW

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
POTTER	
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76	
MANUAL MONITORED SWITCH	
DRAWN: BE DATE: 08-16-17	DWG NO. 010018-010076
13 SHEET OF 58	

BURNS ENG. REVISIONS	SCALE:			POTTER		SHEET NUMBER REF. 13	
	AS DESIGNED-0.00	INITIAL	DATE	THE Burns GROUP ENGINEERING AND CONSTRUCTION		DRAWING NUMBER REF. 010018-010076	
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	CHECKED: WDW	WDW	08-17-17				
		BACK-CHECKED: WAW	WAW				
		CORRECTED: WAW	WAW				
		VERIFIED: WDW	WDW				



NOTES:

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2. ALL PSO LINE COUPLERS IN OUTLYING CASES SHOULD BE LOCATED WITHIN 100 FT. OF TRACK CONNECTIONS.

ALL NEW

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

DRAWN: *BE*
DATE: 08-16-17

The ALASKA RAILROAD CORPORATION
SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500

POTTER
SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76
MANUAL MONITORED SWITCH

DWG NO. 010018-010076

14 SHEET OF 58

BURNS ENG. REVISIONS	AS DESIGNED-0.00	SCALE:	
	PTC OS INSTALLATION	INITIAL	DATE
	DESIGNED:	WAW	08-16-17
	CHECKED:	WDW	08-17-17
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	VERIFIED:	WDW	08-17-17

POTTER

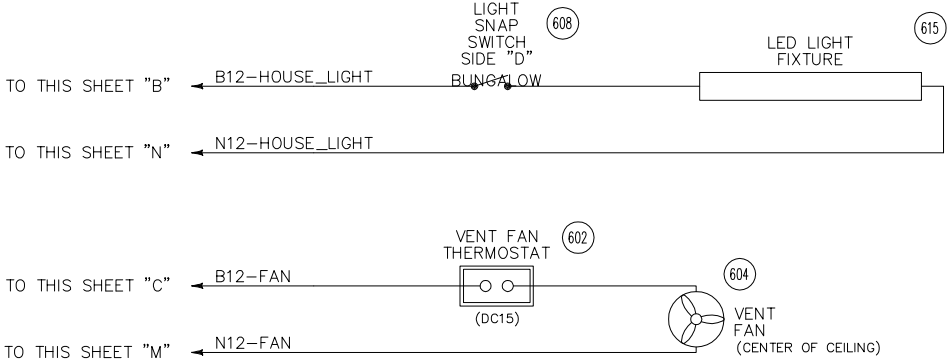
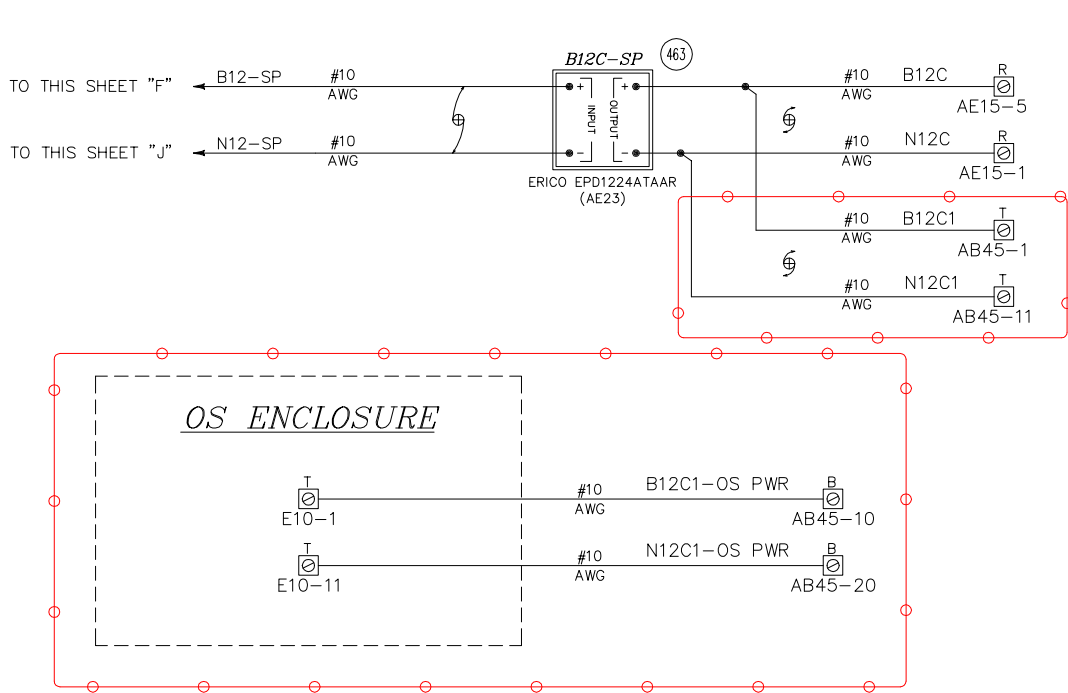
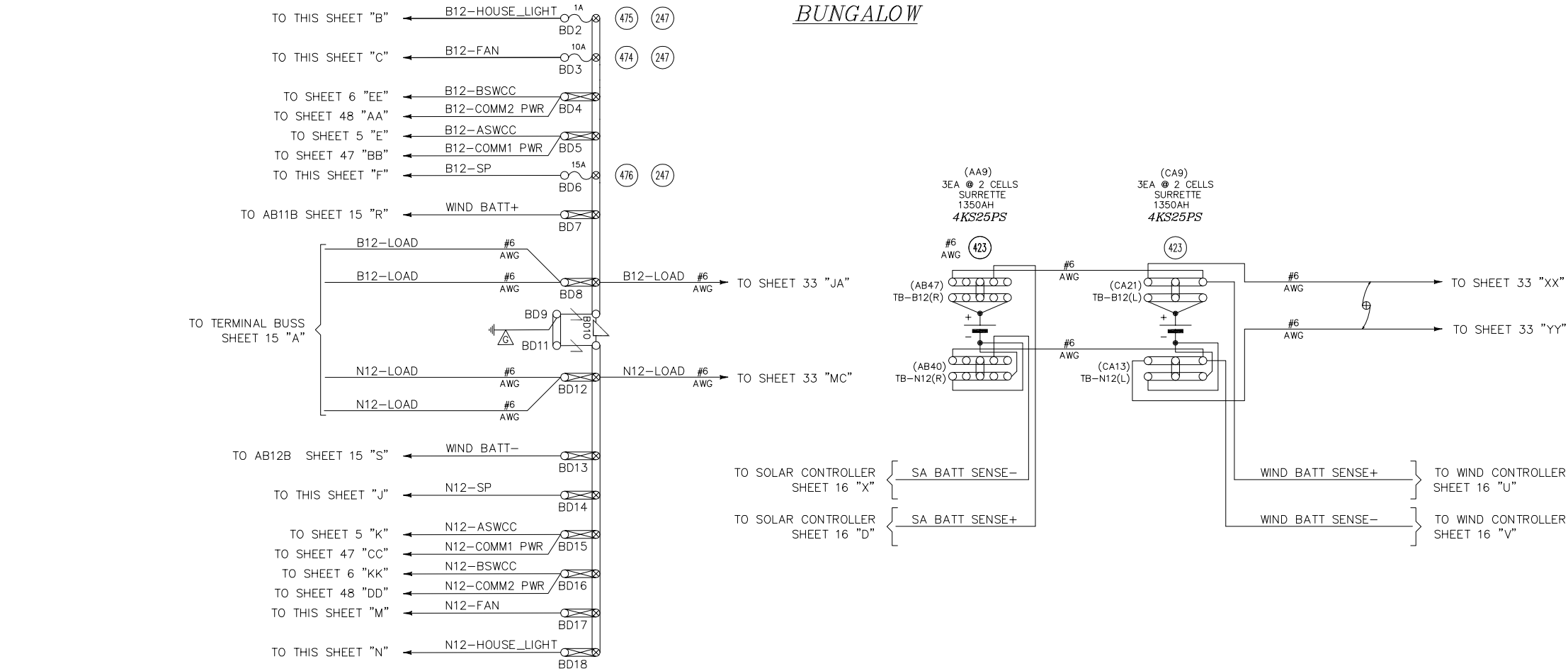
SHEET NUMBER REF.
14

DRAWING NUMBER REF.
010018-010076

BURNS PROJECT REF.
2017-159

THE **Burns** GROUP
ENGINEERING AND CONSTRUCTION

BUNGALOW



- NOTES:
- ALL WIRING IN BUNGALOW TO BE #16 AWG FLEX UNLESS OTHERWISE NOTED.

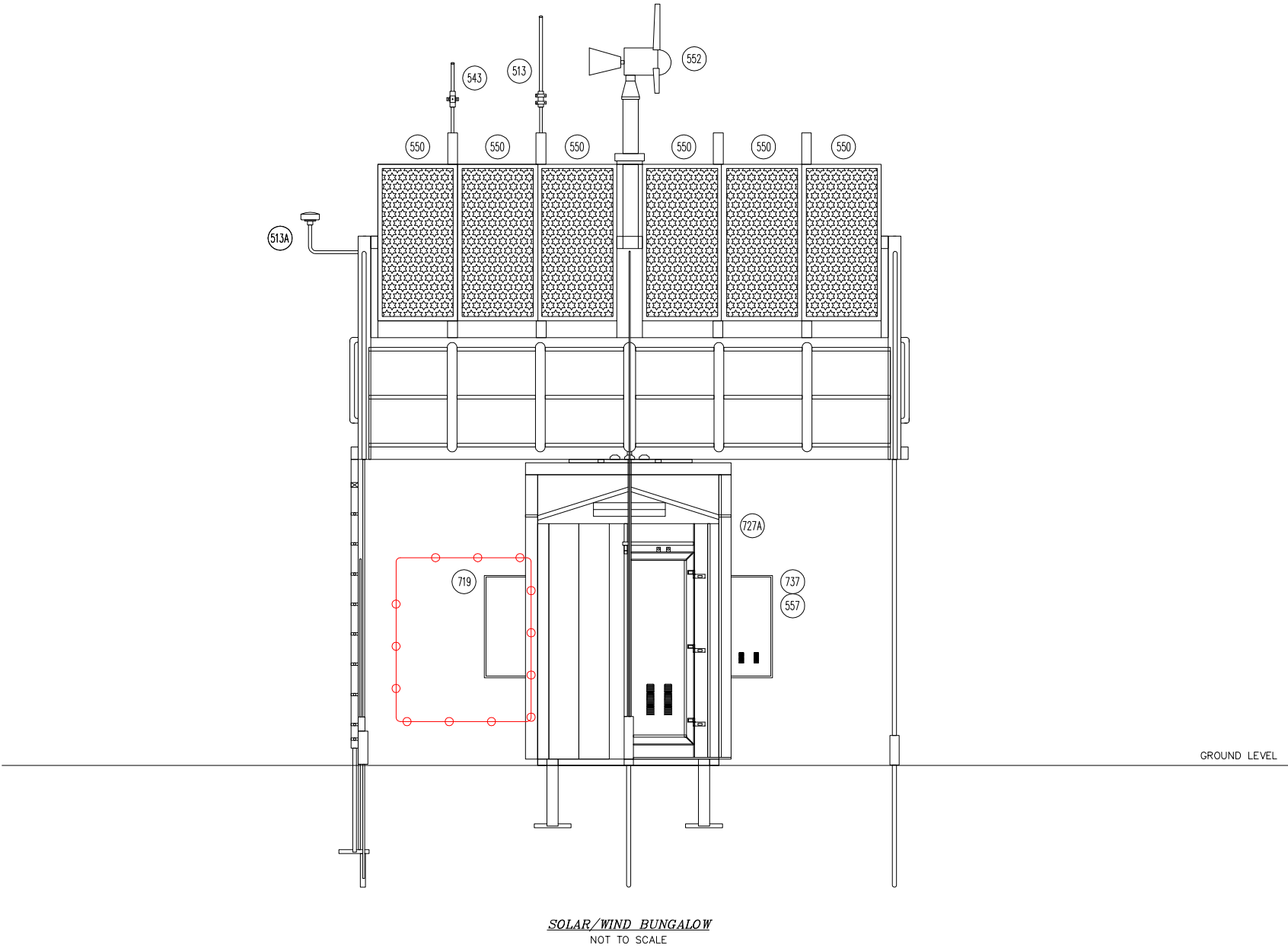
REVISIONS

AS DESIGNED-0.00	08-16-17	AS IN SERVICE	03-22-17
OS INSTALL/BUNGALOW RELOCATION		INSTALL IETMS	
PTC SYSTEM		PTC SYSTEM	
DES:BE/WAW	CHK:BE/WDW	DES:BE/WAW	CHK:BE/ES

The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	
P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
POTTER	
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76	
MANUAL MONITORED SWITCH	
DRAWN: RLB	DWG NO. 010018-010076
DATE: 05-07-12	17 SHEET OF 58

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		BACK-CHECKED:	WAW		08-17-17				
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		VERIFIED:	WDW		08-17-17				
						POTTER		SHEET NUMBER REF. 17	
								DRAWING NUMBER REF. 010018-010076	
						THE Burns GROUP ENGINEERING AND CONSTRUCTION		BURNS PROJECT REF. 2017-159	



The ALASKA RAILROAD CORPORATION

SIGNAL ENGINEERING

P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500

POTTER

SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76

MANUAL MONITORED SWITCH

DRAWN: RLB

DATE: 05-07-12

DWG NO.

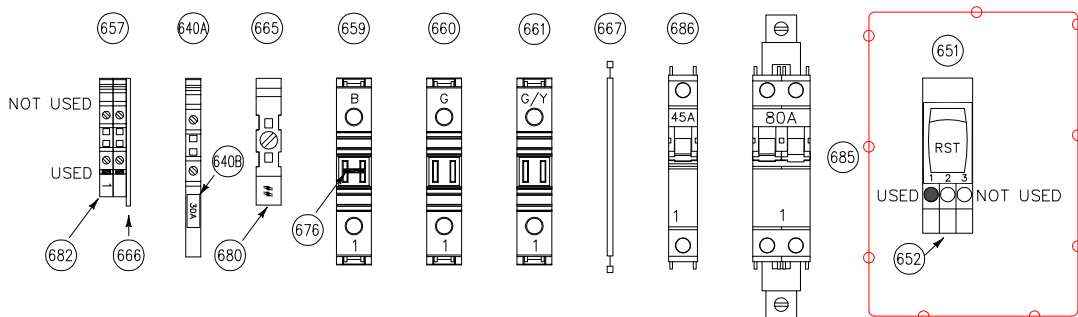
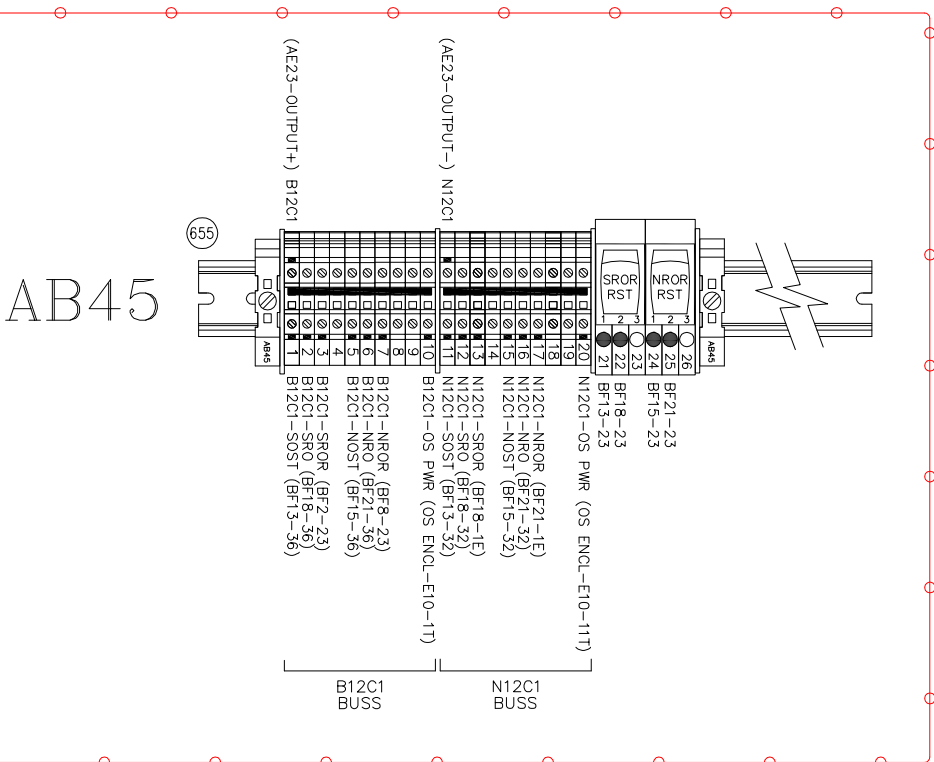
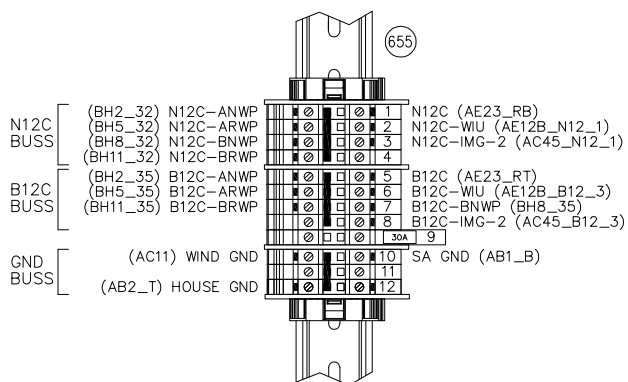
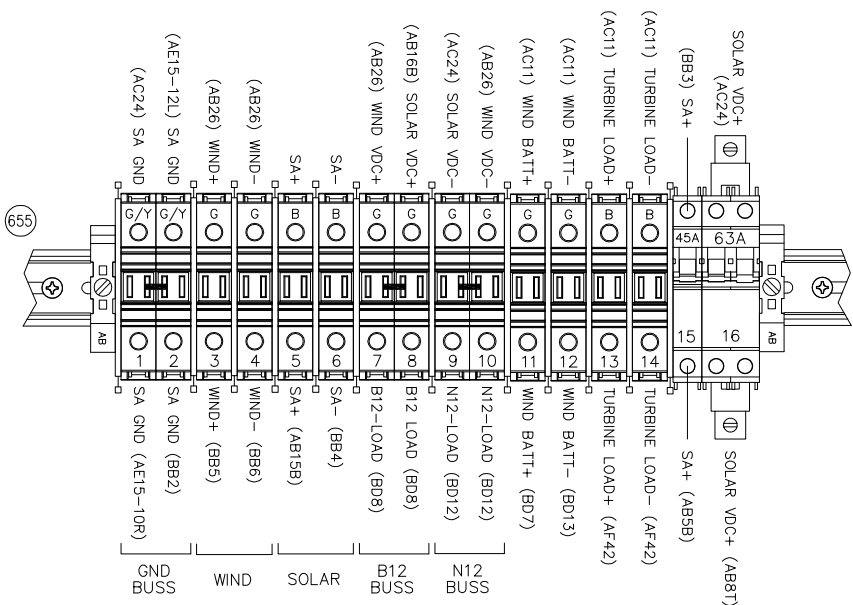
010018-010076

18

SHEET OF 58

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DESIGNED: WAW		08-16-17		CHECKED: WDW		08-17-17		BACK-CHECKED: WAW		08-17-17	
CORRECTED: WAW		08-17-17		VERIFIED: WDW		08-17-17					
SCALE:		INITIAL		DATE							
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CORRECTED: WAW		08-17-17		VERIFIED: WDW		08-17-17					
POTTER		SHEET NUMBER REF.		18		DRAWING NUMBER REF.		010018-010076		BURNS PROJECT REF.	
THE Burns GROUP ENGINEERING AND CONSTRUCTION		2017-159									

TERMINAL DETAILS



NOTES:

1. USE 20 POLE JUMPER (MAT REF 669) FOR TERMINAL 657.
2. USE 10 POLE JUMPER (MAT REF 668) FOR TERMINAL 657.

The ALASKA RAILROAD CORPORATION
SIGNAL ENGINEERING P.O. BOX 107500 • ANCHORAGE • ALASKA 99510-7500

POTTE

SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.7

MANUAL MONITORED SWITC

REVISION

AS DESIGNED-0.00 08-16-
OS INSTALL/BUNGALOW RELOCATIO
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

AS IN SERVICE 03-22-
INSTALL IETMS
PTC SYSTEM
DES:BE/WAW CHK:BE/ES

DRAWN: *RLB*
DATE: 05-07-12

DWG NO. 010018-010076

19^{SHEET}
OF 58

010076_19.dwg 08-16-1

SCALE:	SCALE:	
	INITIAL	DATE
DESIGNED:	WAW	08-16-17
CHECKED:	WDW	08-17-17
BACK-CHECKED:	WAW	08-17-17
CORRECTED:	WAW	08-17-17
VERIFIED:	WDW	08-17-17

BURNS ENG.
REVISIONS

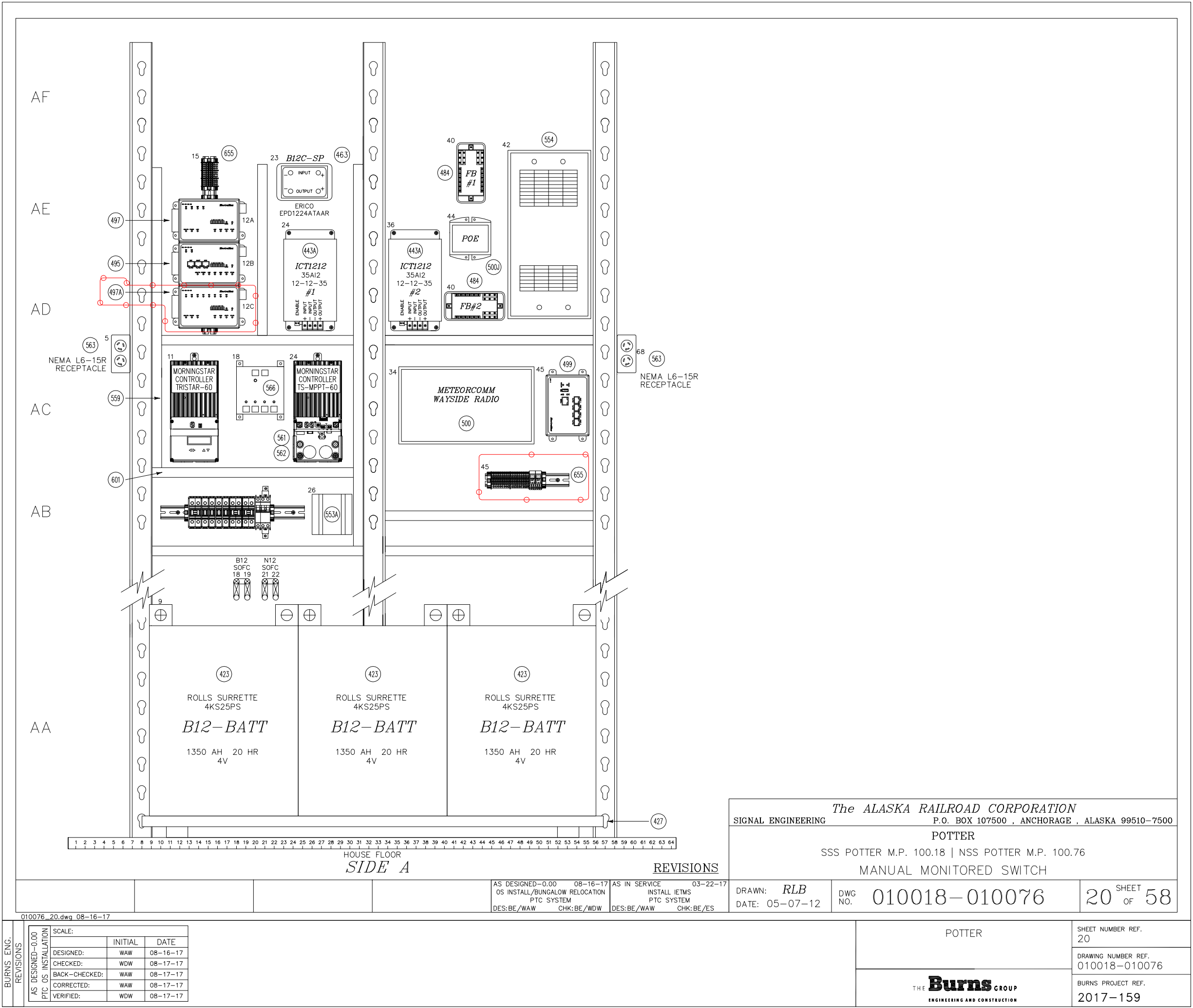
POTTE

SHEET NUMBER REF
19

DRAWING NUMBER P
010018-01

BURNS PROJECT RE
2017-159

THE Burns GROUP
ENGINEERING AND CONSTRUCTION





1. USE 5 POLE JUMPER MAT REF 678 FOR TERMINAL 657 (1-5 & 6-10)
2. * - TRANSDUCERS MOUNTED ON BACK SIDE OF TERMINAL BOARD.

DRAWN: <i>RLB</i> DATE: 05-07-12	DWG NO. 010018-010076	21 ^{SHEET} OF 58
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BURNS ENG. REVISIONS	AS INSTALLED-0.00 PTC OS INSTALLATION	SCALE:		
			INITIAL	DATE
		DESIGNED:	WAW	08-16-17
		CHECKED:	WDW	08-17-17
		BACK-CHECKED:	WAW	08-17-17
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BURNS ENG.
 REVISIONS

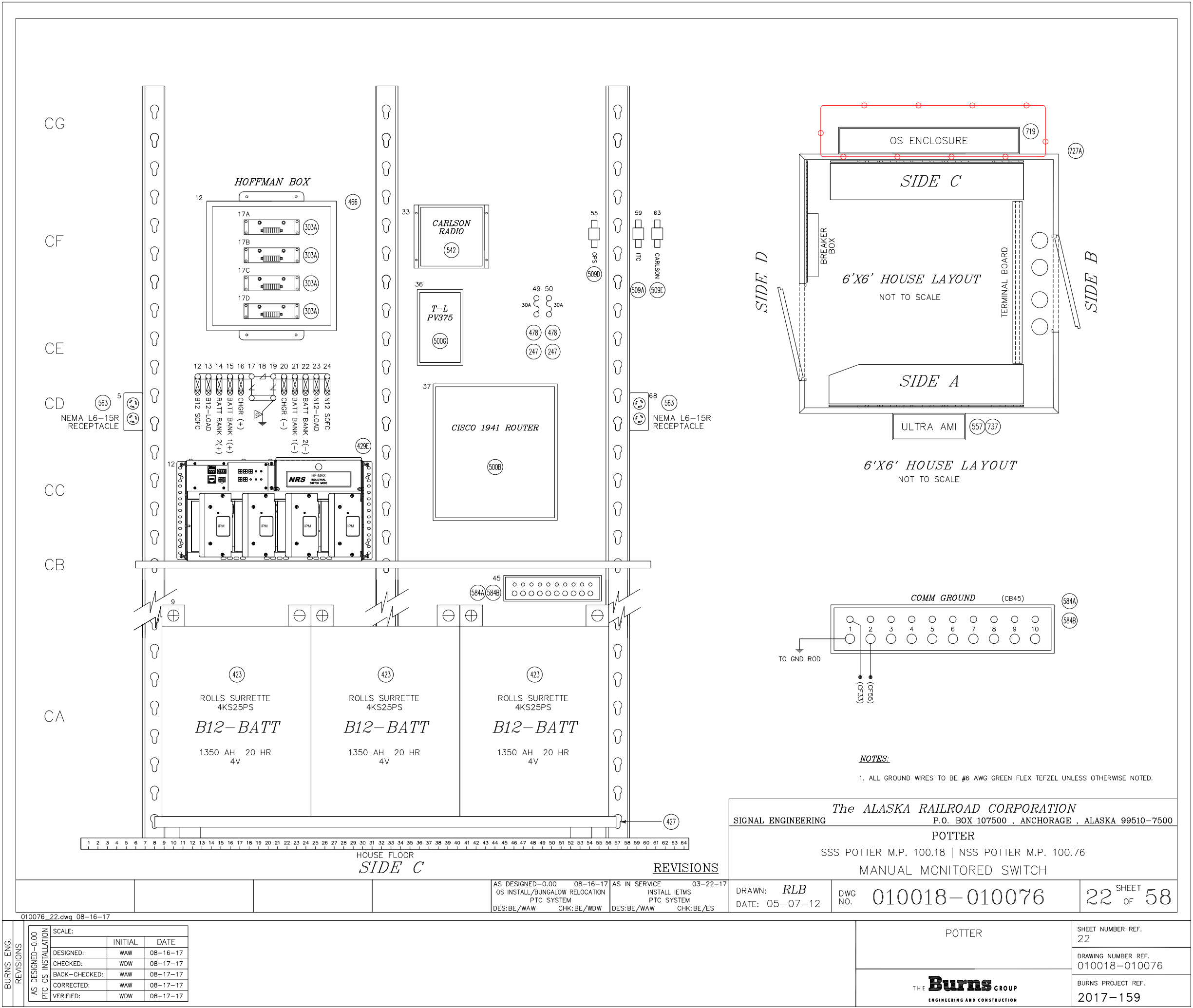
POTTER

SHEET NUMBER REF.
21

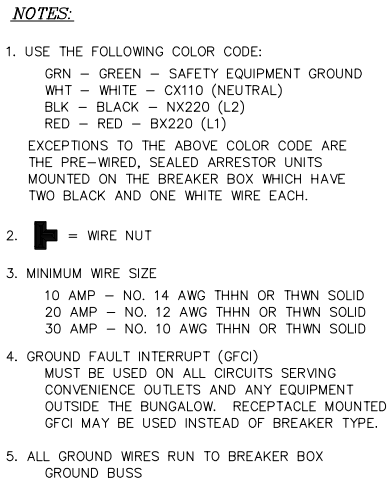
DRAWING NUMBER	REF.
010018	010076

BURNS PROJECT REF.
2017-159

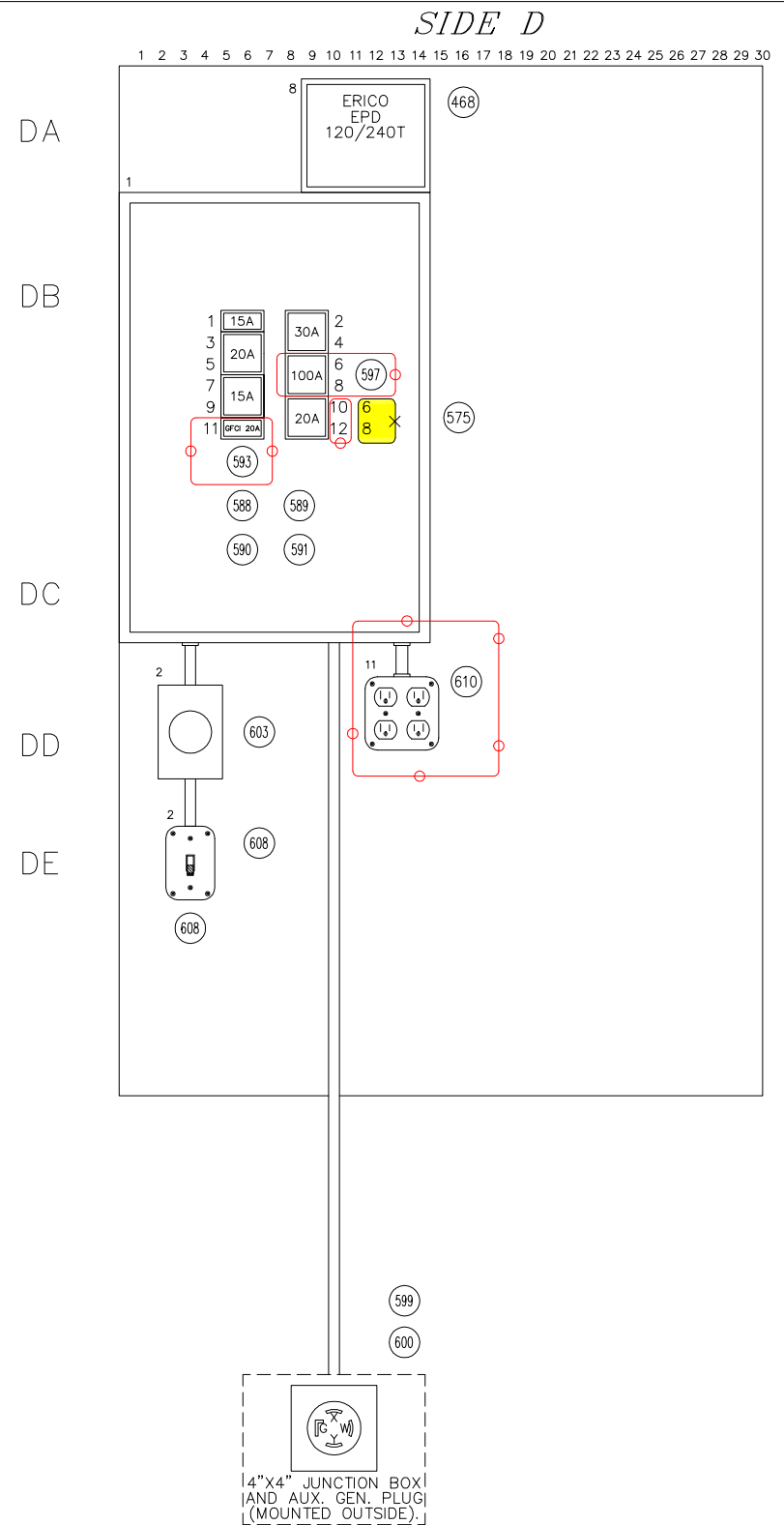
THE Burns GROUP
ENGINEERING AND CONSTRUCTION



BURNS ENG. REVISIONS	AS DESIGNED-0.00	SCALE:		INITIAL	DATE
	PTC OS INSTALLATION	DESIGNED:	WAW	08-16-17	
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		BACK-CHECKED:	WAW	08-17-17	
		CORRECTED:	WAW	08-17-17	
		VERIFIED:	WDW	08-17-17	
POTTER			SHEET NUMBER REF. 22		
			DRAWING NUMBER REF. 010018-010076		
			BURNS PROJECT REF. 2017-159		



<i>The ALASKA RAILROAD CORPORATION</i> SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500		
POTTER SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76 MANUAL MONITORED SWITCH		
DRAWN: <i>RLB</i> DATE: 05-07-12	DWG NO. 010018-010076	23 SHEET OF 58



BURNS, ENG.	REVISIONS	AS DESIGNED-0.00 PTC OS INSTALLATION	SCALE:		
				INITIAL	DATE
			DESIGNED:	WAW	08-16-17
			CHECKED:	WDW	08-17-17
			BACK-CHECKED:	WAW	08-17-17
			CORRECTED:	WAW	08-17-17
			VERIFIED:	WDW	08-17-17

POTTER	SHEET NUMBER REF. 23
	DRAWING NUMBER REF. 010018-010076
 THE Burns GROUP ENGINEERING AND CONSTRUCTION	BURNS PROJECT REF. 2017-159

BUNGALOW OS ENCLOSURE

ENCLOSURE TYPE: NEMA 3R
SIZE: 48H X 36W X 16D

719

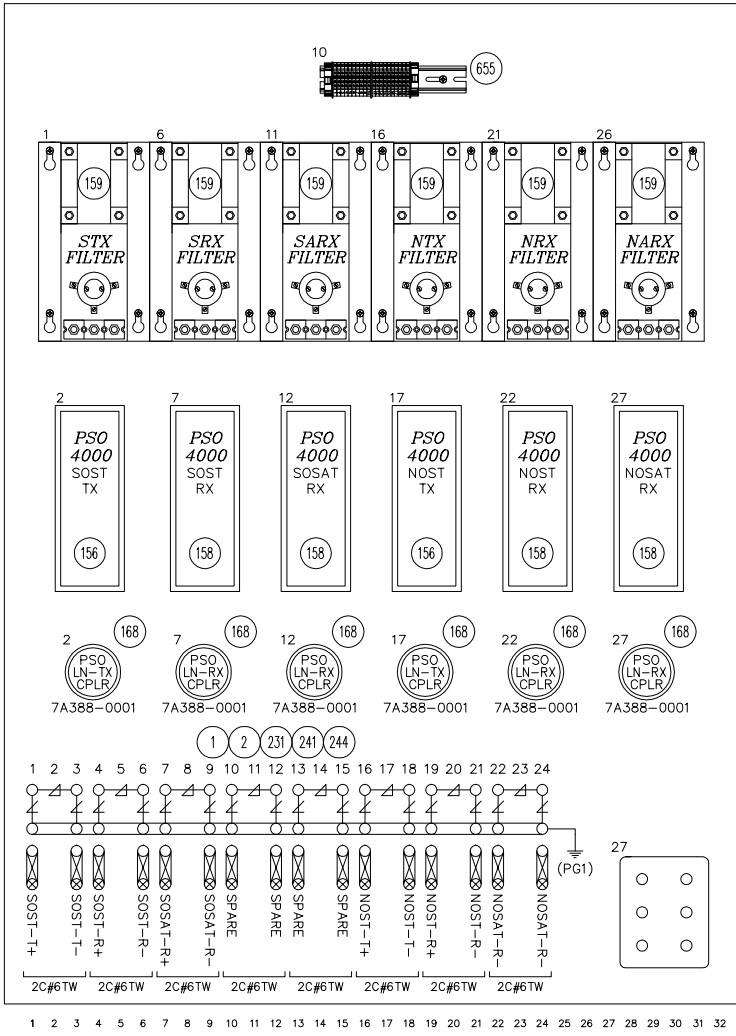
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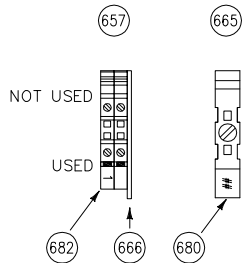
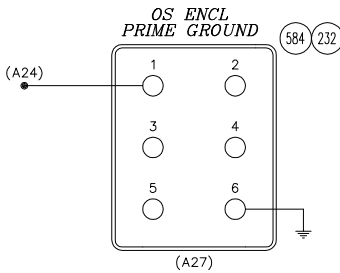
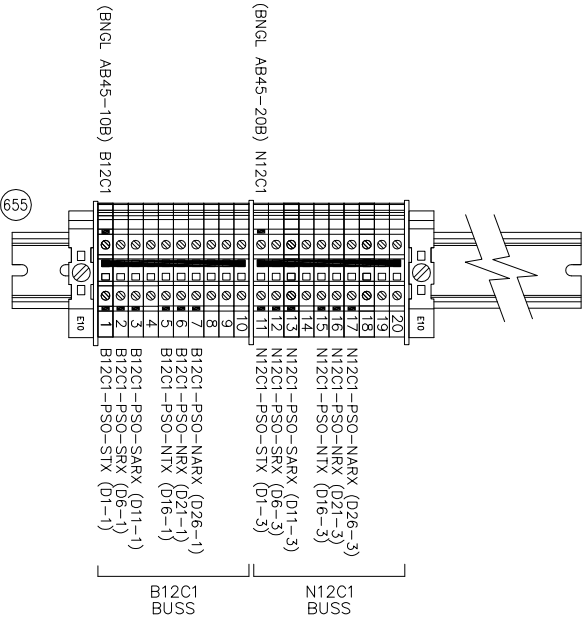
C

B

A



E10



NOTES:

- ALL GROUND WIRES IN ENCLOSURE TO BE #6 AWG GREEN TEFLON UNLESS OTHERWISE NOTED.
- USE 10 POLE JUMPER MAT REF 668 FOR TERMINAL 657 (1-10 & 11-20)

ALL NEW

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

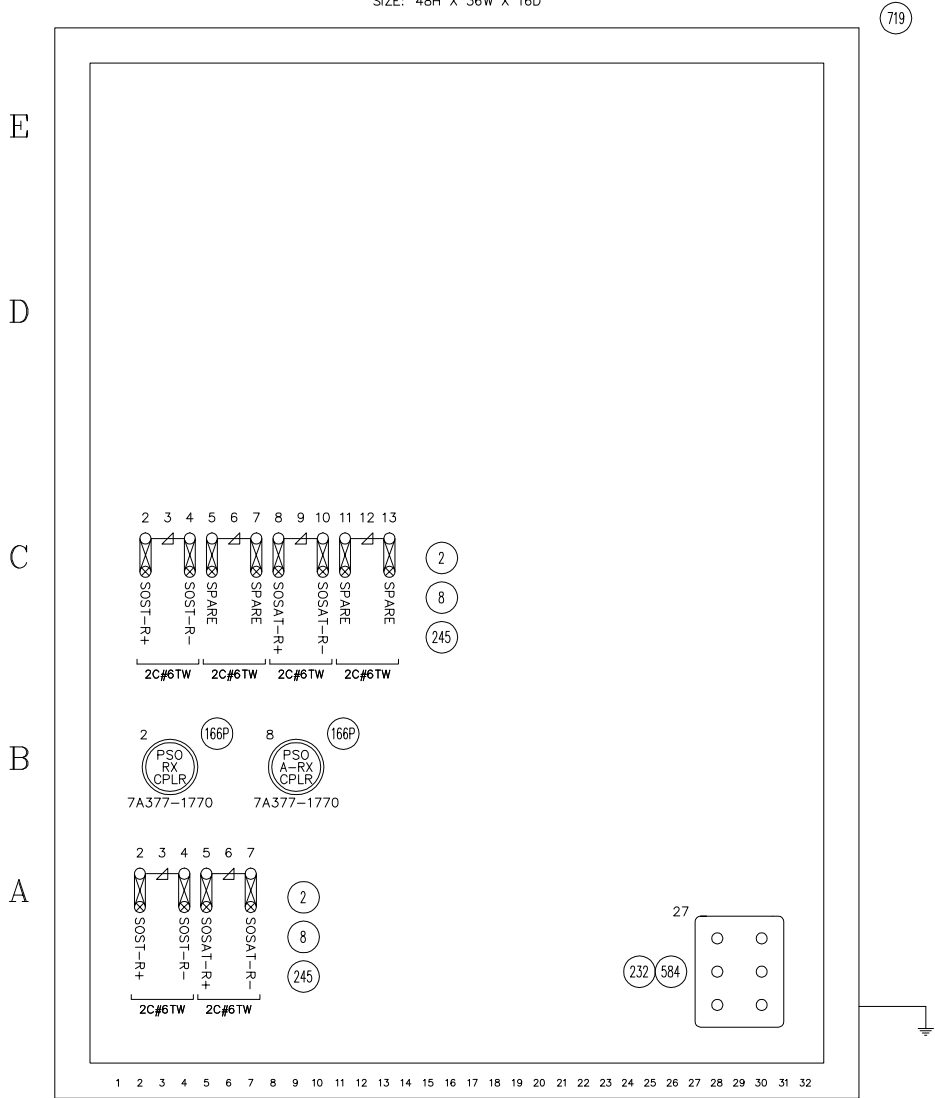
The ALASKA RAILROAD CORPORATION			
SIGNAL ENGINEERING		P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
POTTER			
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76			
MANUAL MONITORED SWITCH			
DRAWN: BE	DWG NO.	010018-010076	25 SHEET OF 58
DATE: 08-16-17			

010076_25.dwg 08-16-17

BURNS ENG. REVISIONS	AS DESIGNED-0.00	SCALE:			
	PTC OS INSTALLATION	DESIGNED:	WAW	08-16-17	
		CHECKED:	WDW	08-17-17	
		BACK-CHECKED:	WAW	08-17-17	
		CORRECTED:	WAW	08-17-17	
		VERIFIED:	WDW	08-17-17	
POTTER				SHEET NUMBER REF. 25	
				DRAWING NUMBER REF. 010018-010076	
				BURNS PROJECT REF. 2017-159	

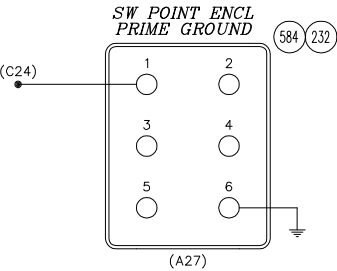
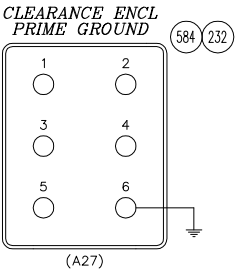
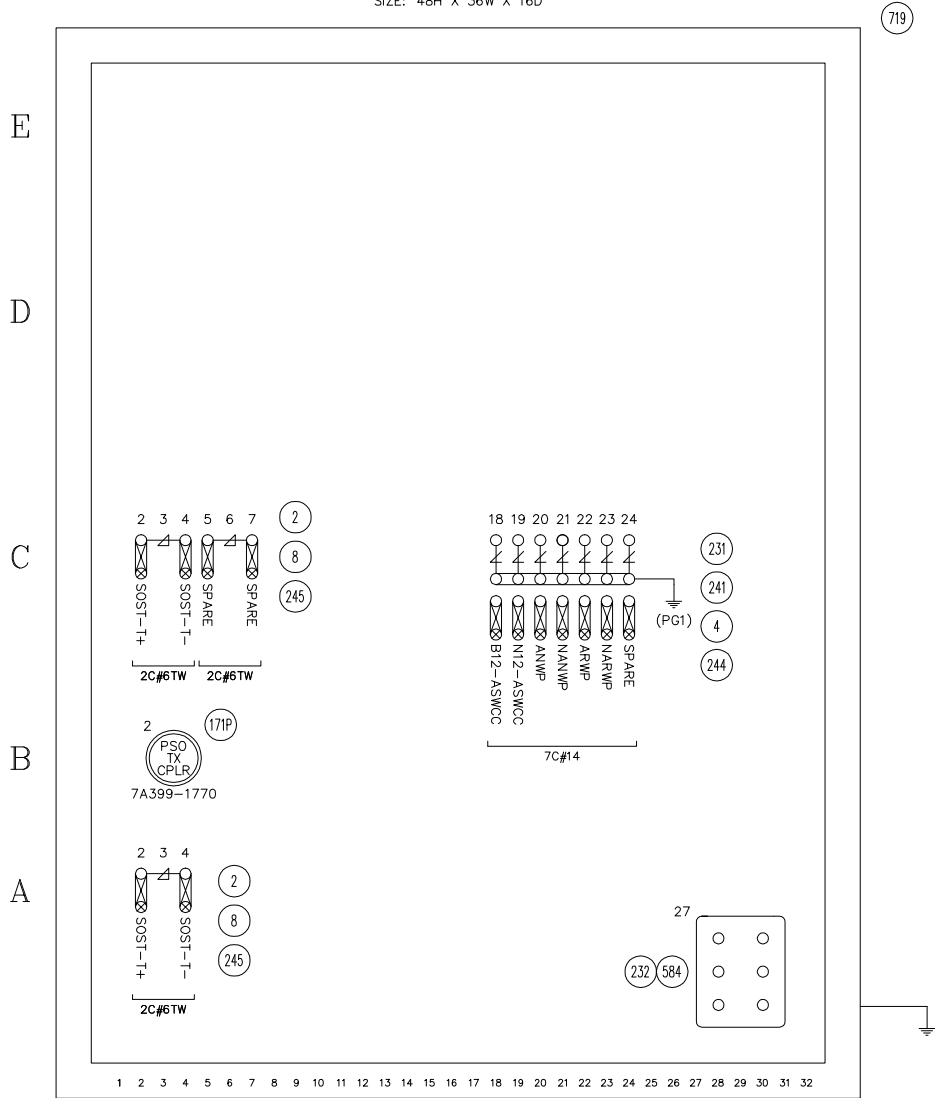
SSS CLEARANCE ENCLOSURE

ENCLOSURE TYPE: NEMA 3R
SIZE: 48H X 36W X 16D



SSS SWITCH POINT ENCLOSURE

ENCLOSURE TYPE: NEMA 3R
SIZE: 48H X 36W X 16D



NOTES:

- ALL GROUND WIRES TO BE #6 AWG GREEN TEFLON UNLESS OTHERWISE NOTED.
- FROM GROUND PLATE TO GROUND ROD SOFT DRAWN #6.

ALL NEW

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

DRAWN: BE
DATE: 08-16-17

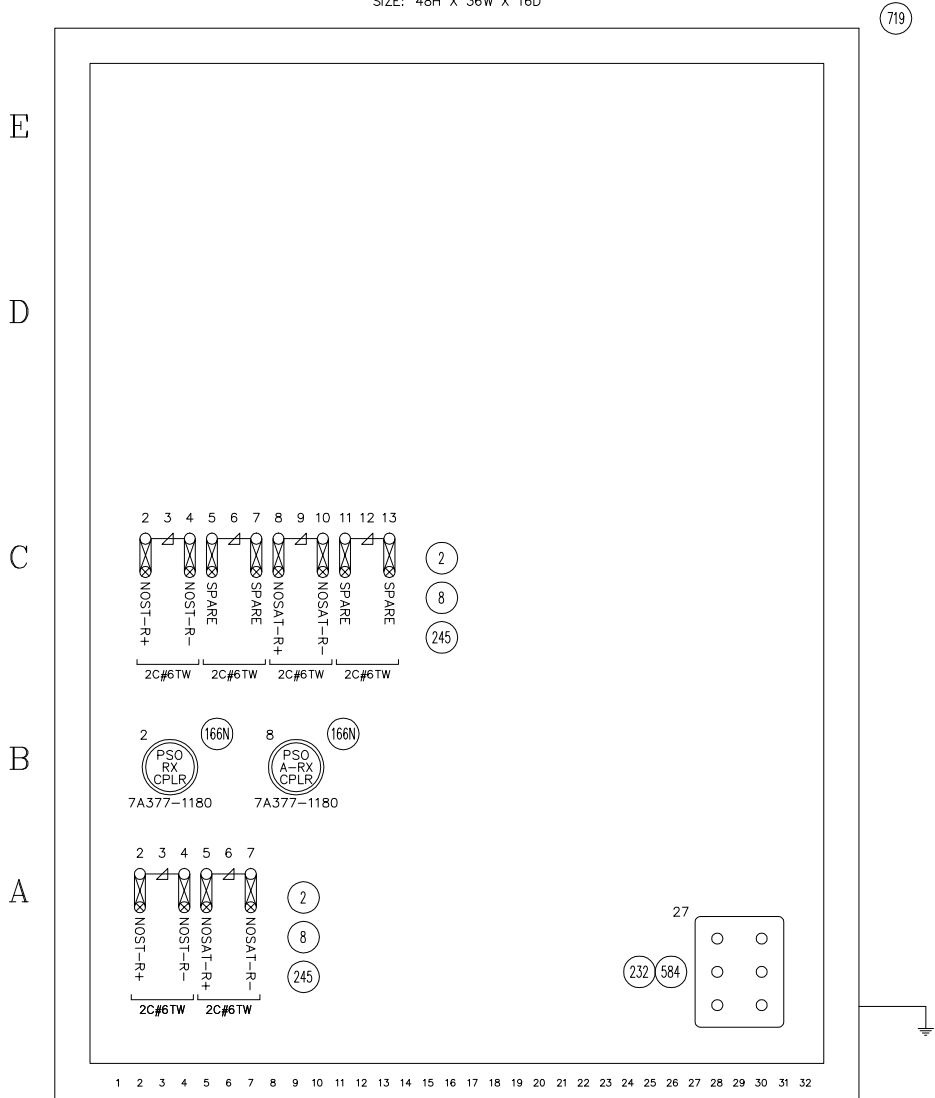
DWG NO. 010018-010076

SHEET 26 OF 58

BURNS ENG. REVISIONS	AS DESIGNED-0.00 PTC OS INSTALLATION	SCALE:				
			INITIAL	DATE		
		DESIGNED:	WAW	08-16-17		
		CHECKED:	WDW	08-17-17		
		BACK-CHECKED:	WAW	08-17-17		
		CORRECTED:	WAW	08-17-17		
		VERIFIED:	WDW	08-17-17		
					POTTER	SHEET NUMBER REF. 26
					THE Burns GROUP ENGINEERING AND CONSTRUCTION	DRAWING NUMBER REF. 010018-010076
						BURNS PROJECT REF. 2017-159

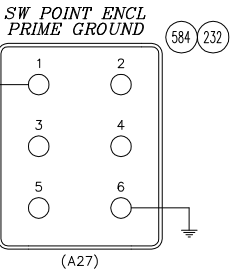
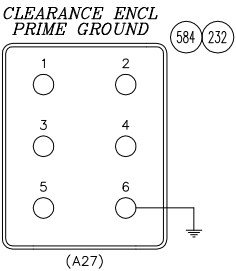
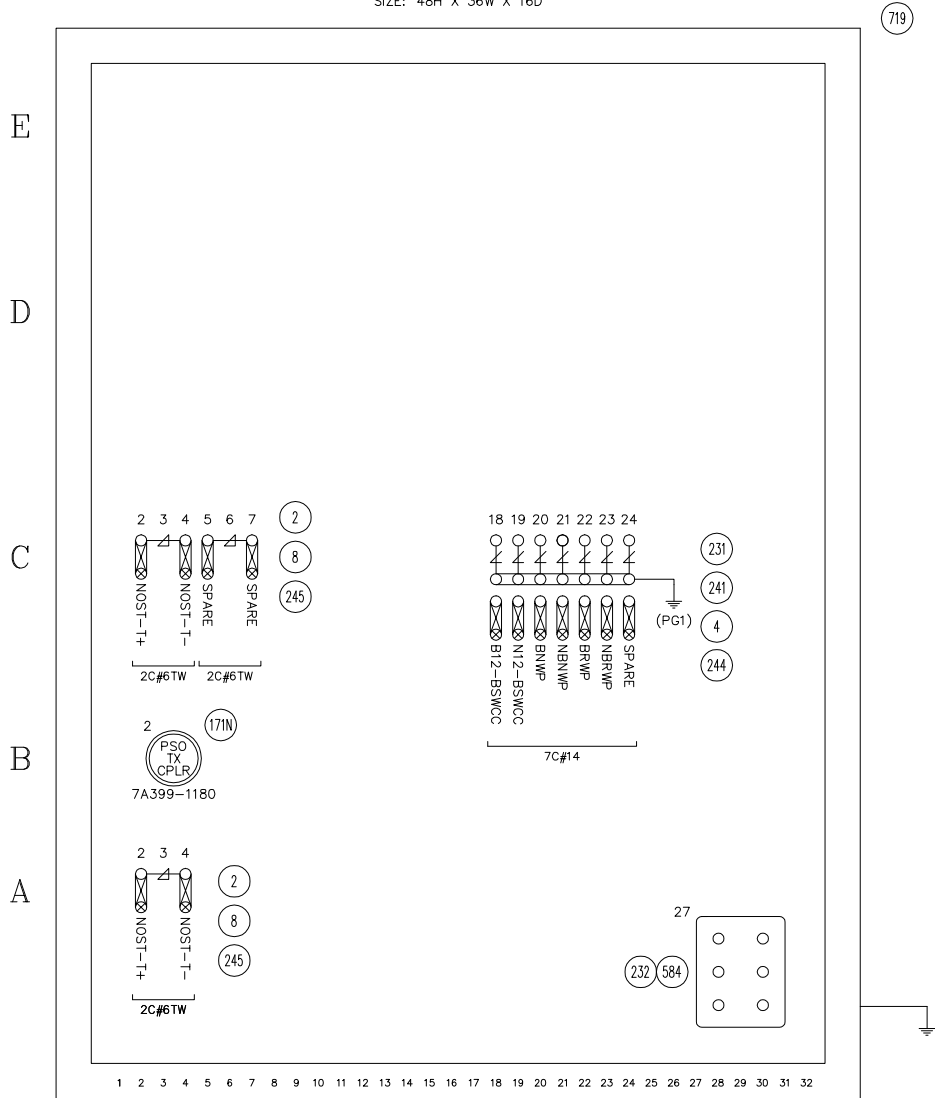
NSS CLEARANCE ENCLOSURE

ENCLOSURE TYPE: NEMA 3R
SIZE: 48H X 36W X 16D



NSS SWITCH POINT ENCLOSURE

ENCLOSURE TYPE: NEMA 3R
SIZE: 48H X 36W X 16D



NOTES:

- ALL GROUND WIRES TO BE #6 AWG GREEN TEFLON UNLESS OTHERWISE NOTED.
- FROM GROUND PLATE TO GROUND ROD SOFT DRAWN #6.

ALL NEW

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

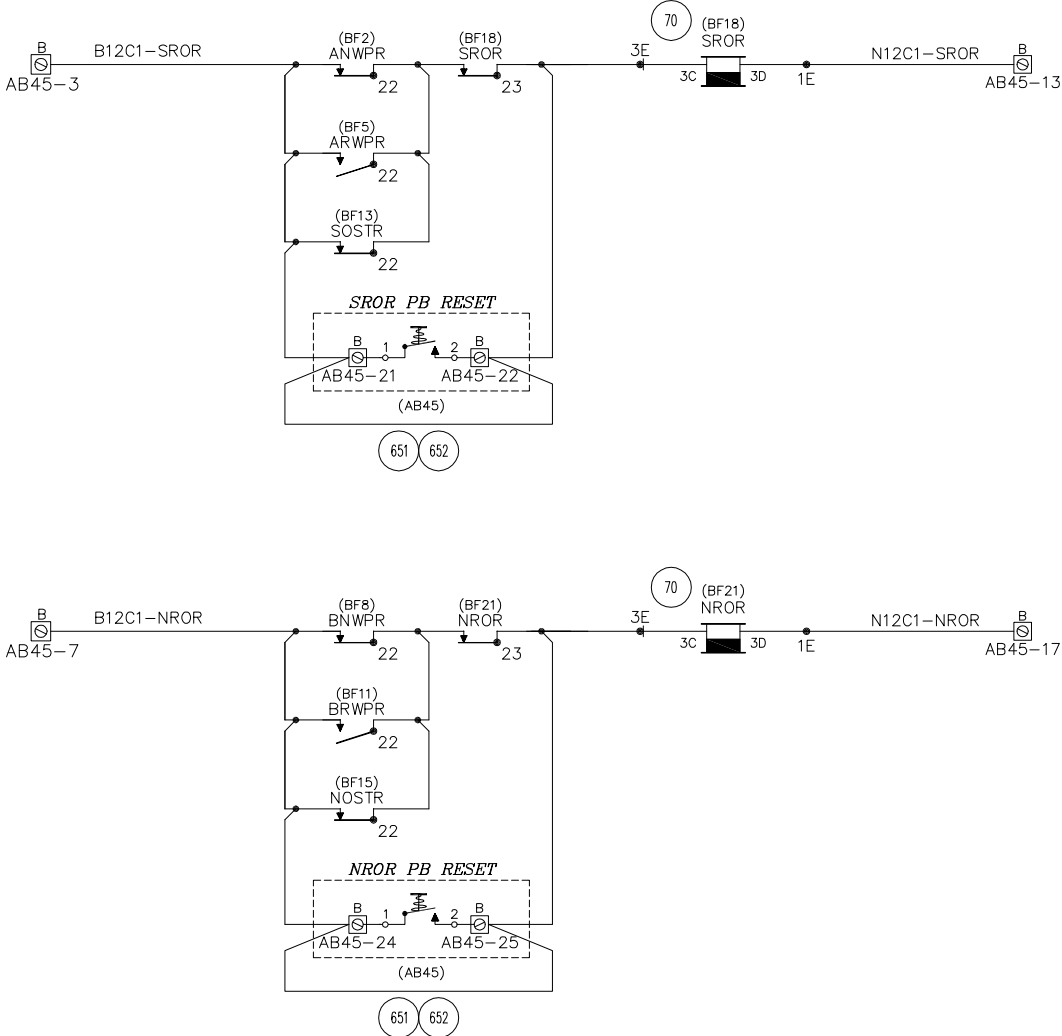
DRAWN: BE
DATE: 08-16-17

DWG NO. 010018-010076

27 SHEET OF 58

010076_27.dwg 08-16-17

BURNS ENG. REVISIONS	AS DESIGNED-0.00			POTTER			SHEET NUMBER REF.	
	PTC 05 INSTALLATION						27	
	SCALE:						DRAWING NUMBER REF.	
		INITIAL	DATE				010018-010076	
	DESIGNED:	WAW	08-16-17				BURNS PROJECT REF.	
	CHECKED:	WDW	08-17-17				2017-159	
	BACK-CHECKED: WAW 08-17-17							
	CORRECTED: WAW 08-17-17							
	VERIFIED: WDW 08-17-17							



ALL NEW

NOTES:

- 1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
- 2. CIRCUITS ON THIS SHEET FOR FUTURE USE.

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

DRAWN: BE
DATE: 08-16-17

DWG NO. 010018-010076

29 SHEET OF 58

The ALASKA RAILROAD CORPORATION

SIGNAL ENGINEERING

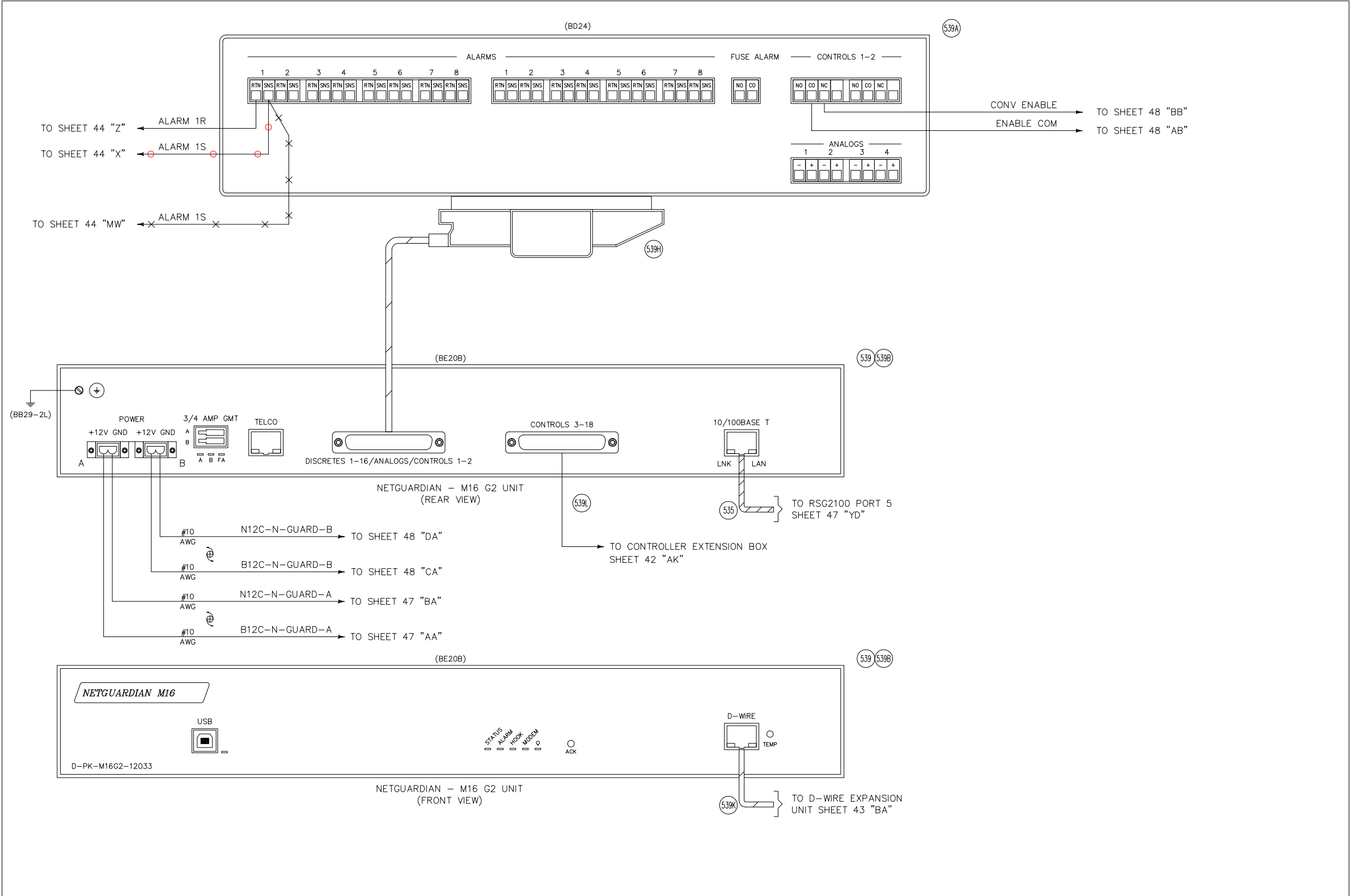
P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500

POTTER

SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76

MANUAL MONITORED SWITCH

BURNS ENG. REVISIONS	AS DESIGNED-0.00 PTC OS INSTALLATION				
	SCALE:				
		INITIAL	DATE		
	DESIGNED:	WAW	08-16-17		
	CHECKED:	WDW	08-17-17		
	BACK-CHECKED:	WAW	08-17-17		
	CORRECTED:	WAW	08-17-17		
	VERIFIED:	WDW	08-17-17		
				POTTER	SHEET NUMBER REF. 29
					DRAWING NUMBER REF. 010018-010076
					BURNS PROJECT REF. 2017-159



NOTES:

1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
2. ALL GROUND WIRES TO BE #6 AWG GREEN FLEX TEFLON UNLESS OTHERWISE NOTED.

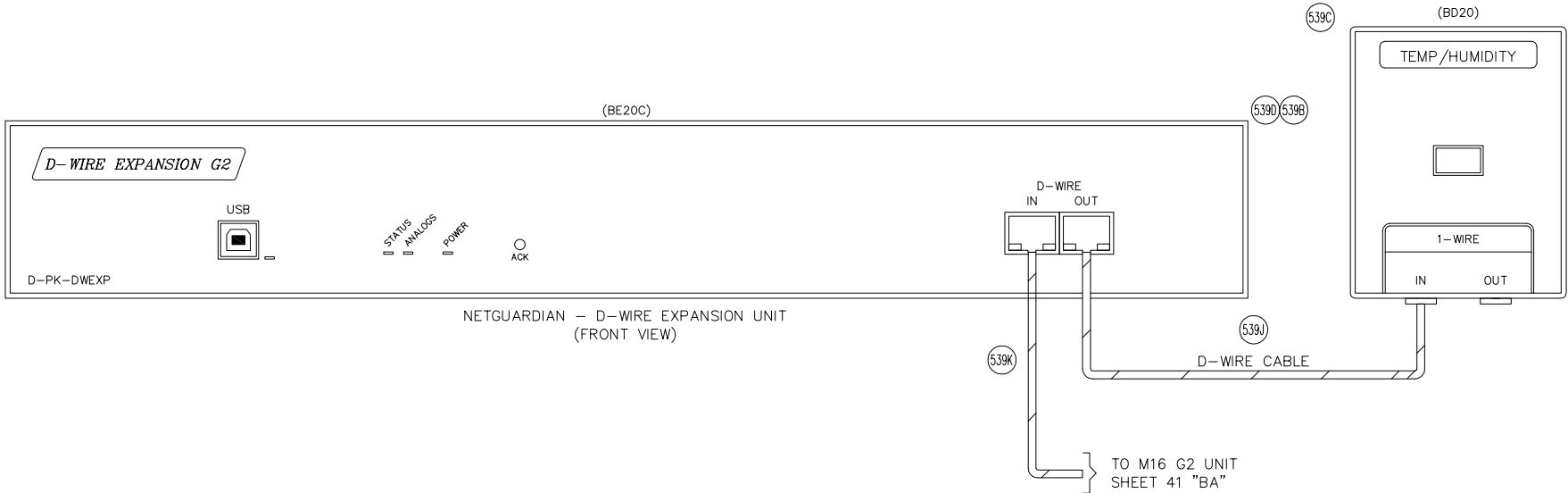
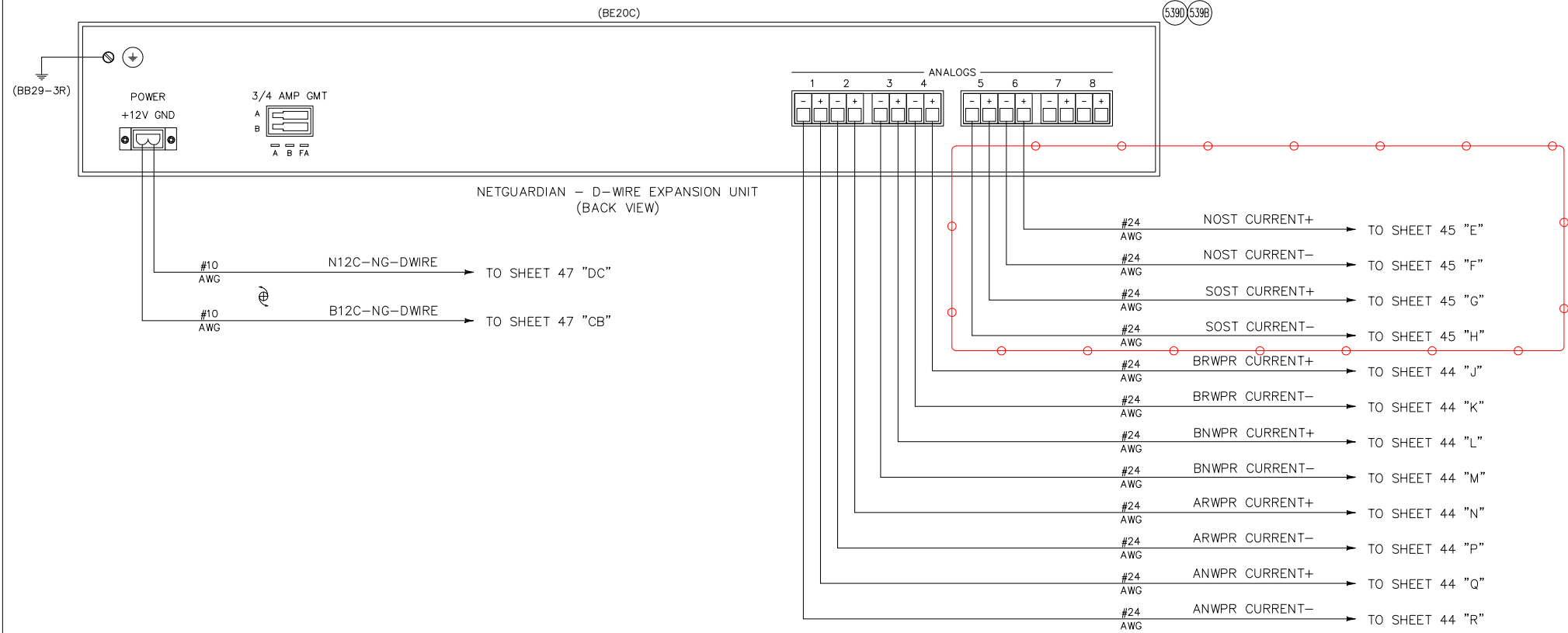
REVISIONS

AS DESIGNED-0.00	08-16-17	AS IN SERVICE	03-22-17
OS INSTALL/BUNGALOW RELOCATION		INSTALL IETMS	
PTC SYSTEM		PTC SYSTEM	
DES:BE/WAW	CHK:BE/WDW	DES:BE/WAW	CHK:BE/ES

The ALASKA RAILROAD CORPORATION			
SIGNAL ENGINEERING		P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
POTTER			
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76			
MANUAL MONITORED SWITCH			
DRAWN: BE	DWG NO.	010018-010076	41 SHEET OF 58
DATE: 07-25-16			

AS DESIGNED-0.00 PTC OS INSTALLATION	SCALE:		
	DESIGNED:	WAW	08-16-17
	CHECKED:	WDW	08-17-17
	BACK-CHECKED:	WAW	08-17-17
	CORRECTED:	WAW	08-17-17
	VERIFIED:	WDW	08-17-17

Burns BURNS ENGINEERING, INC. | 215 878-7700
TWO COMMERCE SQUARE, 2001 MARKET ST, SUITE 600
PHILADELPHIA, PA 19103



NOTES:

- 1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
- 2. ALL GROUND WIRES TO BE #6 AWG GREEN FLEX TEFLON UNLESS OTHERWISE NOTED.

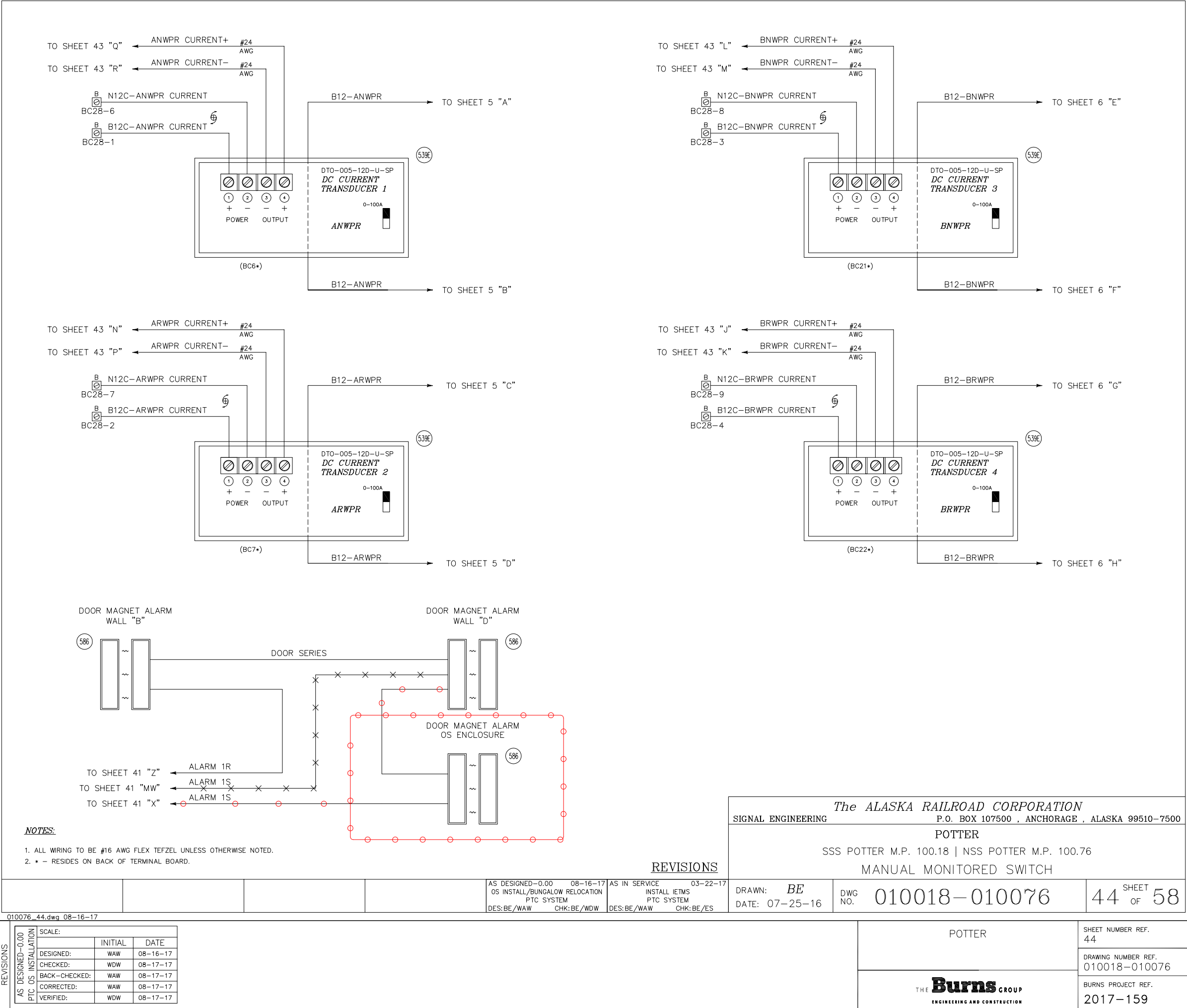
REVISIONS

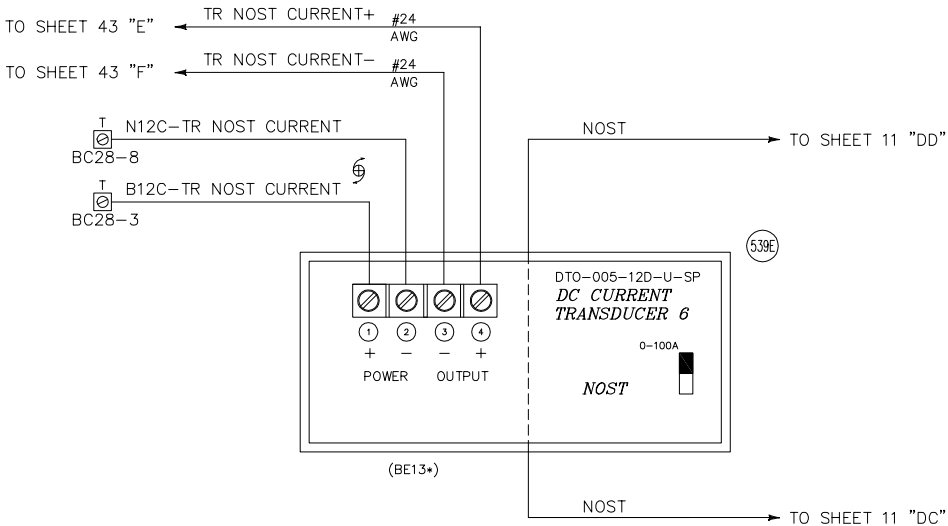
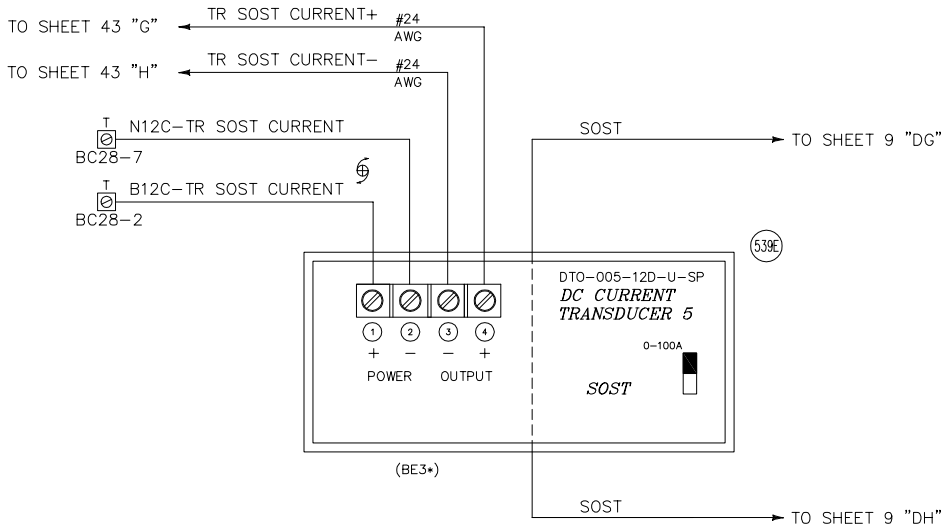
AS DESIGNED-0.00	08-16-17	AS IN SERVICE	03-22-17
OS INSTALL/BUNGALOW RELOCATION		INSTALL IETMS	
PTC SYSTEM		PTC SYSTEM	
DES:BE/WAW	CHK:BE/WDW	DES:BE/WAW	CHK:BE/ES

The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	
P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
POTTER	
SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76	
MANUAL MONITORED SWITCH	
DRAWN: BE	DWG NO. 010018-010076
DATE: 07-25-16	

43 SHEET OF 58

BURNS ENG. REVISIONS	SCALE:			POTTER		SHEET NUMBER REF. 43
	DESIGNED:	WAW	08-16-17	THE Burns GROUP ENGINEERING AND CONSTRUCTION		DRAWING NUMBER REF. 010018-010076
	CHECKED:	WDW	08-17-17			BURNS PROJECT REF. 2017-159
	BACK-CHECKED:	WAW	08-17-17			
AS DESIGNED-0.00						
PTC OS INSTALLATION						
VERIFIED:						





ALL NEW

NOTES:

1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
2. * - RESIDES ON BACK OF TERMINAL BOARD.

REVISIONS

AS DESIGNED-0.00 08-16-17
OS INSTALL/BUNGALOW RELOCATION
PTC SYSTEM
DES:BE/WAW CHK:BE/WDW

DRAWN: BE
DATE: 08-16-17

DWG NO. 010018-010076

45 SHEET OF 58

The ALASKA RAILROAD CORPORATION
SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500
POTTER
SSS POTTER M.P. 100.18 | NSS POTTER M.P. 100.76
MANUAL MONITORED SWITCH

BURNS ENG. REVISIONS	AS DESIGNED-0.00 PTC OS INSTALLATION	SCALE:				
			INITIAL	DATE		
		DESIGNED:	WAW	08-16-17		
		CHECKED:	WDW	08-17-17		
		BACK-CHECKED:	WAW	08-17-17		
		CORRECTED:	WAW	08-17-17		
		VERIFIED:	WDW	08-17-17		
					POTTER	SHEET NUMBER REF. 45
					THE Burns GROUP ENGINEERING AND CONSTRUCTION	DRAWING NUMBER REF. 010018-010076
						BURNS PROJECT REF. 2017-159

OS INSTALL

[illegible]

ALL NEW

REVISIONS

<i>The ALASKA RAILROAD CORPORATION</i> SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500			
POTTER SSS POTTER M.P. 100.18 NSS POTTER M.P. 100.76 MANUAL MONITORED SWITCH			
DRAWN: <i>BE</i> DATE: 08-16-17	DWG NO. 010018-010076	51 ^{SHEET} OF 58	

BURNS - ENG. REVISIONS	AS DESIGNED-0.00 P.T.C. 03 INSTALLATION	SCALE:	
			INITIAL DATE
		DESIGNED:	WAW 08-16-17
		CHECKED:	WDW 08-17-17
		BACK-CHECKED:	WAW 08-17-17
		CORRECTED:	WAW 08-17-17
		VERIFIED:	WDW 08-17-17
		POTTER	SHEET NUMBER REF. 51
			DRAWING NUMBER REF. 010018-010076 BURNS PROJECT REF. 2017-159