

DENALI PARK
DOT 868 350S
MP 348.20

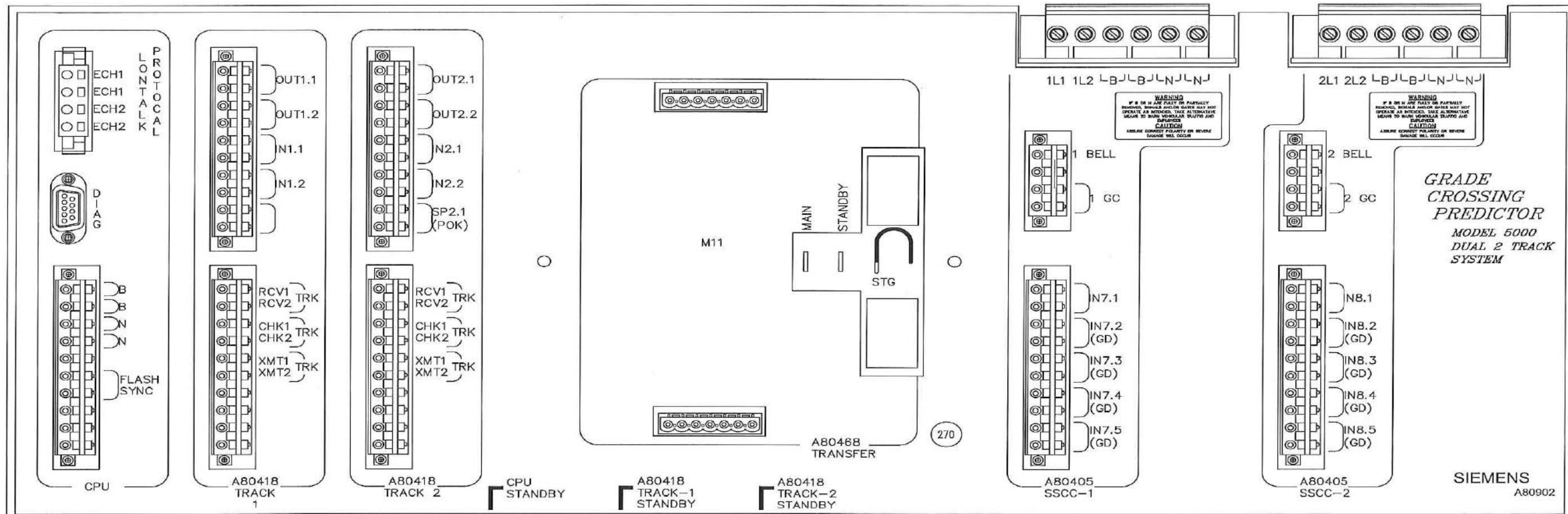
NOTES:

1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
2. ALL CROSSING CONTROL EQUIPMENT IS DESIGNED TO PROVIDE A MINIMUM WARNING TIME OF 25 SECONDS AT THE MAXIMUM AUTHORIZED TRAIN SPEED FOR EACH MAIN TRACK APPROACH.
3. CROSSING APPROACHES WERE LENGTHENED 5 SECONDS TO COMPENSATE FOR ACCELERATING TRAINS AND BALLAST CHANGES.
4. CROSSING APPROACHES WERE LENGTHENED 5 SECONDS FOR EQUIPMENT REACTION TIME.

LEGEND

 TWISTED WIRE TWO TURNS PER FOOT

The ALASKA RAILROAD CORPORATION	
P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500	
SIGNAL ENGINEERING	DOT 868350S DENALI PARK RD MP 348.20
LAT: 63.736	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
LONG: -148.915	DRAWN: SMI DATE: 07-11-19
AS DESIGNED-0.00 07-11-19 NEW XING BUNGALOW INSTALLATION DES: SMI/KDF CHK: SMI/DAD	DWG NO. 868350S
	2 SHEET OF 22



Minimum Program Steps Report
 Creation Date: Wednesday July 31 2019
 Creation Time: 14:47:20 Alaska

Location and SIN
 Site Name : 868350S
 DOT Number : 868350S
 Milepost Number : 348.20
 SIN : 7.005.100.363.16 *
 * Parameter is part of office configuration check number calculation.

MCF and Template Selection
 MCF Name : gcp5k-02-3.mcf
 MCF Revision : 023
 MCFCRC : 0EA1F809
 Template = 1A:6 Trk BI (OCCN) *
 * Parameter is part of office configuration check number calculation

Minimum Program Steps
 (1.2) Module Selection
 Chassis Type = Dual Two Track (Set in Field)

(1.6) Out of Service
 OOS Timeout = No (OCCN) *

(2.1.1) Trk 1: GCP Frequency
 Track 1 : GCP Frequency = 525 Hz (OCCN,TCN) *
 Track 1 : Approach Distance = 1300 ft (OCCN,TCN) *

(2.1.2) Trk 1: Island Frequency
 Track 1 : Isl Frequency = 7.1 kHz (OCCN) *

(2.1.8) Trk 1: GCP Miscellaneous
 Track 1 : Train Line Speed = 25 mph (OCCN) *

(4.1) SSCC Configuration
 Bell On Gate Rising = Yes (OCCN) *
 Mute Bell On Gate Down = Yes (OCCN) *

(4.3) SSCC 1 Configuration (2F)
 SSCC-1 Number of GDs = 0 (OCCN) *

(5.2.4) I/O: Input Slot SSCC 1
 IN 7.2 = Not Used (OCCN) *
 IN 7.4 = Not Used (OCCN) *
 * Parameter is part of office configuration check number calculation

Check Numbers:
 Office Configuration Check Number: 32DA274B
 Config. Check Number: 7818C996

Parameters not part of office configuration check number calculation:
 Chassis Type = Dual Two Track (Set in Field)

Non Vital Configuration

Site Information
 Site Name : 868350S
 DOT Number : 868350S
 Mile Post : 348.20
 Time Zone : Alaska (GMT-9:00)
 ATCS - Railroad : 5
 ATCS - Group : 363

SEAR Configuration

SEAR Programming - IO Assignment

Digital Inputs:
 SEAR Digital Input SP 2_1
 Name : POK1
 Tag : POK1
 Off State Name : Deenergized
 On State Name : Energized
 SEAR Digital Input IN 7.2
 Algorithm : MTSS

SEAR Digital Input IN 7.4
 Algorithm : MTSS

SEAR Digital Input IN 7.5
 Name : GP 1.1
 Tag : GP 1.1
 Off State Name : Deenergized
 On State Name : Energized

SEAR Digital Input 1GC
 Name : Gate Output 1
 Tag : Gate Output 1
 Off State Name : Deenergized
 On State Name : Energized

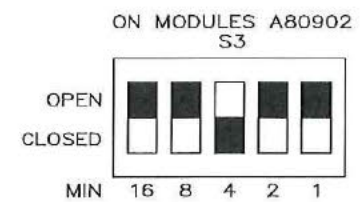
SEAR Digital Input 2GC
 Name : Gate Output 2
 Tag : Gate Output 2
 Off State Name : Deenergized
 On State Name : Energized

SEAR Digital Input Extern DI1
 Name : Gnd Fit Testr 1
 Algorithm : GFT
 Tag : GFT1

Non-Vital Outputs:
 SEAR Output 7
 Name : Ground Fit Test
 Tag : GndFitTest
 Off State Name : Deenergized
 On State Name : Energized

SEAR Programming - Communication
 Site Type : Collector
 Office (WAMS) ATCS Addr : 2.005.01.9100
 Modem Phone Number : 1-907-265-2285
 Radio ATCS Addr : 7.005.100.363.00.01

NOTES:
 1. FOR ISLAND DISTANCE MEASURE THE DISTANCE BETWEEN THE TRANSMITTER AND RECEIVER LEADS - MUST BE 128' MINIMUM
 2. SET TRANSFER JUMPER TO STG.
 SET TRANSFER SWITCH TO AUTO.
 SET TIME FOR 4 MIN.



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LONG: -148.915		MP 348.20	
RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM			
DRAWN: SMI	DWG NO.	868350S	
DATE: 07-11-19		3 SHEET OF 22	

REVISIONS
 AS DESIGNED-0.00 07-11-19
 NEW KING BUNGALOW
 INSTALLATION
 DES: SMI/KDF CHK: SMI/DAD

Program Report

Creation Date: Wednesday July 31 2019
Creation Time: 14:47:23 Alaska

Location and SIN

Site Name : 868350S
DOT Number : 868350S
Milepost Number : 348.20

SIN : 7.005.100.363.16

MCF and Template Selection

MCF Name : gcp5k-02-3.mcf
MCF Revision : 023
MCFCRC : 0EA1F809
Template = 1A:6 Trk BI (OCCN)

Check Numbers:

Office Configuration Check Number: 52116C7C
Config. Check Number: 7818C996

Program

(1.1) Set Template
Template = 1A:6 Trk BI (OCCN)

(1.2) Module Selection
Track 1 Slot = Track (OCCN)
Track 2/RIO 1 Slot = Not Used (OCCN)
SSCC-1 Slot = SSCC3I (OCCN)
SSCC-2 Slot = SSCC3I (OCCN)
SEAR Used = Yes (OCCN)
Chassis Type = Dual Two Track (Field)

(1.3) Preemption
Preempt Logic = No (OCCN)
Second Trn Logic Used = No (OCCN)

(1.4) MS/Restart
MS/GCP Restart Used = No (OCCN)

(1.5) Vital Comma Links
Vital Comms link 1 Used = No (OCCN)
Vital Comms link 2 Used = No (OCCN)
Vital Comms link 3 Used = No (OCCN)
Vital Comms link 4 Used = No (OCCN)

(1.6) Out of Service
OOS Control = Display (OCCN)
OOS Timeout = No (OCCN)

(2.1.1) Trk 1: GCP Frequency
Track 1 : MS/GCP Operation = Yes (OCCN)
Track 1 : GCP Freq Category = Standard (Field)
Track 1 : GCP Frequency = 525 Hz (OCCN,TCN)
Track 1 : GCP Transmit Level = Medium (Field,TCN)
Track 1 : Uni/Bi/Sim-Bidirnl = Bidirnl (OCCN,TCN)
Track 1 : Approach Distance = 1300 ft (OCCN,TCN)
Track 1 : Directionally Wired = No (OCCN)
Track 1 : Island Connection = Isl 1 (OCCN)
Track 1 : Computed Distance = 9999 ft (Field,TCN)
Track 1 : Linearization Steps = 100 (Field,TCN)

(2.1.2) Trk 1: Island Frequency
Track 1 : Island Used = Internal (OCCN)
Track 1 : Isl Frequency = 7.1 kHz (OCCN)
Track 1 : Pickup Delay (2s+) = 0 sec (OCCN)
Track 1 : Isl Enable IP Used = No (OCCN)
Track 1 : Island Distance = 120 ft (Field,TCN)

(2.1.3) Trk 1: Predictors
Track 1 : Prime Used = Yes (OCCN)
Track 1 : Dax A Used = No (OCCN)
Track 1 : Dax B Used = No (OCCN)
Track 1 : Dax C Used = No (OCCN)
Track 1 : Dax D Used = No (OCCN)
Track 1 : Dax E Used = No (OCCN)
Track 1 : Dax F Used = No (OCCN)
Track 1 : Dax G Used = No (OCCN)

(2.1.3.1) Trk 1 Predictor: Prime
Track 1 : Prime Used = Yes (OCCN)
Track 1 : Prime Warning Time = 35 sec (OCCN)
Track 1 : Prime Offset Distance = 0 ft (OCCN)
Track 1 : Switch MS EZ Level = 10 (OCCN)
Track 1 : Prime MS/GCP Mode = Pred (OCCN)
Track 1 : Prime Pickup Delay = 15 sec (OCCN)
Track 1 : Prime UAX = No (OCCN)

(2.1.4) Trk 1: Enhanced Detection
Track 1 : Inbound PS Sensitivity = High (Field)
Track 1 : Speed Limiting Used = Yes (Field)
Track 1 : Outbound False Act Lvl = Normal (Field)
Track 1 : Outbound PS Timer = 20 sec (Field)
Track 1 : Trailing Switch Logic = On (Field)
Track 1 : Post Joint Detn Time = 15 sec (OCCN)
Track 1 : Cancel Pickup Delay = This Isl (OCCN)
Track 1 : Adv Appr Predictn = No (OCCN)

(2.1.5) Trk 1: Positive Start, Low EZ
Track 1 : Positive Start = Off (OCCN)
Track 1 : Sudden Shnt Det Used = No (OCCN)
Track 1 : Low EZ Detection Used = No (OCCN)

(2.1.6) Trk 1: MS Control
Track 1 : MS/GCP Ctrl IP Used = No (OCCN)
Track 1 : MS Sensitivity Level = 0 (Field)
Track 1 : MS/GCP Restart EZ Level = 80 (Field)

(2.1.7) Trk 1: Wraps and Overrides
Track 1 : Wrap Used = No (OCCN)
Track 1 : All Predictors Override Used = No (OCCN)

(2.1.8) Trk 1: GCP Miscellaneous
Track 1 : Low EX Adjustment = 39 (Field)
Track 1 : False Act on Train Stop = No (Field)
Track 1 : EX Limiting Used = Yes (Field)
Track 1 : EZ Correction Used = Yes (Field)
Track 1 : Compensation Level = 1300 (Field,TCN)
Track 1 : Warn Time-Ballast Comp = High (Field,TCN)
Track 1 : Train Line Speed = 25 mph (OCCN)

(3.1) Logic: Track ANDing
AND 1 XR Used = Yes (OCCN)
AND 2 Used = No (OCCN)
AND 3 Used = No (OCCN)
AND 4 Used = No (OCCN)

(3.1.1) Logic: AND 1 XR
AND 1 XR Track 1 = Prime (OCCN)
AND 1 Wrap Used = No (OCCN)
AND 1 Enable Used = No (OCCN)

(3.2) Logic: AND Gates
AND 5 Used = No (OCCN)
AND 6 Used = No (OCCN)
AND 7 Used = No (OCCN)
AND 8 Used = No (OCCN)
AND 9 Used = No (OCCN)
AND 10 Used = No (OCCN)
AND 11 Used = No (OCCN)
AND 12 Used = No (OCCN)

(3.3) Logic: OR Gates
OR 1 Used = No (OCCN)
OR 2 Used = No (OCCN)
OR 3 Used = No (OCCN)
OR 4 Used = No (OCCN)

(3.4) Logic: Controls
Emergency Activate IP = No (OCCN)
Maint Call Rpt IP Used = No (OCCN)
Pass Thrus = No (OCCN)

(3.5.1) Internal I/O 1-4
Int.1 Sets = Not Used (OCCN)
Int.1 Set by = Not Used (OCCN)
Int.2 Sets = Not Used (OCCN)
Int.2 Set by = Not Used (OCCN)
Int.3 Sets = Not Used (OCCN)
Int.3 Set by = Not Used (OCCN)
Int.4 Sets = Not Used (OCCN)
Int.4 Set by = Not Used (OCCN)

(3.5.2) Internal I/O 5-8
Int.5 Sets = Not Used (OCCN)
Int.5 Set by = Not Used (OCCN)
Int.6 Sets = Not Used (OCCN)
Int.6 Set by = Not Used (OCCN)
Int.7 Sets = Not Used (OCCN)
Int.7 Set by = Not Used (OCCN)
Int.8 Sets = Not Used (OCCN)
Int.8 Set by = Not Used (OCCN)

(3.5.3) Internal I/O 9-12
Int.9 Sets = Not Used (OCCN)
Int.9 Set by = Not Used (OCCN)
Int.10 Sets = Not Used (OCCN)
Int.10 Set by = Not Used (OCCN)
Int.11 Sets = Not Used (OCCN)
Int.11 Set by = Not Used (OCCN)
Int.12 Sets = Not Used (OCCN)
Int.12 Set by = Not Used (OCCN)

(3.5.4) Internal I/O 13-16
Int.13 Sets = Not Used (OCCN)
Int.13 Set by = Not Used (OCCN)
Int.14 Sets = Not Used (OCCN)
Int.14 Set by = Not Used (OCCN)
Int.15 Sets = Not Used (OCCN)
Int.15 Set by = Not Used (OCCN)
Int.16 Sets = Not Used (OCCN)
Int.16 Set by = Not Used (OCCN)

(4.1) SSCC Configuration
Gates Used = Yes (OCCN)
SSCC1+2 GPs Coupled = Yes (OCCN)
Min Activation = 0 sec (OCCN)
Rmt Activation Cancel = 2 min (OCCN)
Bell On Gate Rising = Yes (OCCN)
Mute Bell On Gate Down = Yes (OCCN)
SSCCIV Controller Used = No (OCCN)

(4.3) SSCC 1 Configuration
SSCC-1 Activation = AND 1 XR (OCCN)
SSCC-1 Gate Delay = 4 sec (OCCN)
SSCC-1 Number of GPs = 1 (OCCN)
SSCC-1 Number of GDs = 0 (OCCN)

(4.3.1) SSCC 1 Extended Parameters
SSCC 1 : Flash Rate = 50 (OCCN)
SSCC 1 : Flash Sync = master (OCCN)
SSCC 1 : Invert Gate Output = No (OCCN)
SSCC 1 : Lamp Neutral Test = Off (Field)
SSCC 1 : Lamp 1 Voltage = 100 dV (Field)
SSCC 1 : Lamp 2 Voltage = 100 dV (Field)
Aux-1 Xng Ctrl Used = No (OCCN)

(4.4) SSCC 2 Configuration
SSCC-2 Activation = AND 1 XR (OCCN)
SSCC-2 Gate Delay = 4 sec (OCCN)
SSCC-2 Number of GPs = 0 (OCCN)
SSCC-2 Number of GDs = 0 (OCCN)

(4.4.1) SSCC 2 Extended Parameters
SSCC 2 : Flash Rate = 50 (OCCN)
SSCC 2 : Flash Sync = slave (OCCN)
SSCC 2 : Invert Gate Output = No (OCCN)
SSCC 2 : Lamp Neutral Test = Off (Field)
SSCC 2 : Lamp 1 Voltage = 100 dV (Field)
SSCC 2 : Lamp 2 Voltage = 100 dV (Field)
Aux-2 Xng Ctrl Used = No (OCCN)

(5.1.1) I/O: Output Slot 1-2
OUT 1.1 = Not Used (OCCN)
OUT 1.2 = Not Used (OCCN)

(5.1.4) I/O: Output Slot SSCC
OUT GC 1 = Gate Output 1 (OCCN)
OUT GC 2 = Gate Output 2 (OCCN)

(5.2.1) I/O: Input Slot 1-2
IN 1.1 = Not Used (OCCN)
IN 1.2 = Not Used (OCCN)

(5.2.4) I/O: Input Slot SSCC 1
IN 7.1 = Not Used (OCCN)
IN 7.2 = Not Used (OCCN)
IN 7.3 = Not Used (OCCN)
IN 7.4 = Not Used (OCCN)
IN 7.5 = GP 1.1 (OCCN)

(5.2.5) I/O: Input Slot SSCC 2
IN 8.1 = Not Used (OCCN)
IN 8.2 = Not Used (OCCN)
IN 8.3 = Not Used (OCCN)
IN 8.4 = Not Used (OCCN)
IN 8.5 = Not Used (OCCN)

The ALASKA RAILROAD CORPORATION

Table with 4 columns: SIGNAL ENGINEERING, DOT 868350S, DENALI PARK RD, MP 348.20. Includes location and system name: RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM.

REVISIONS

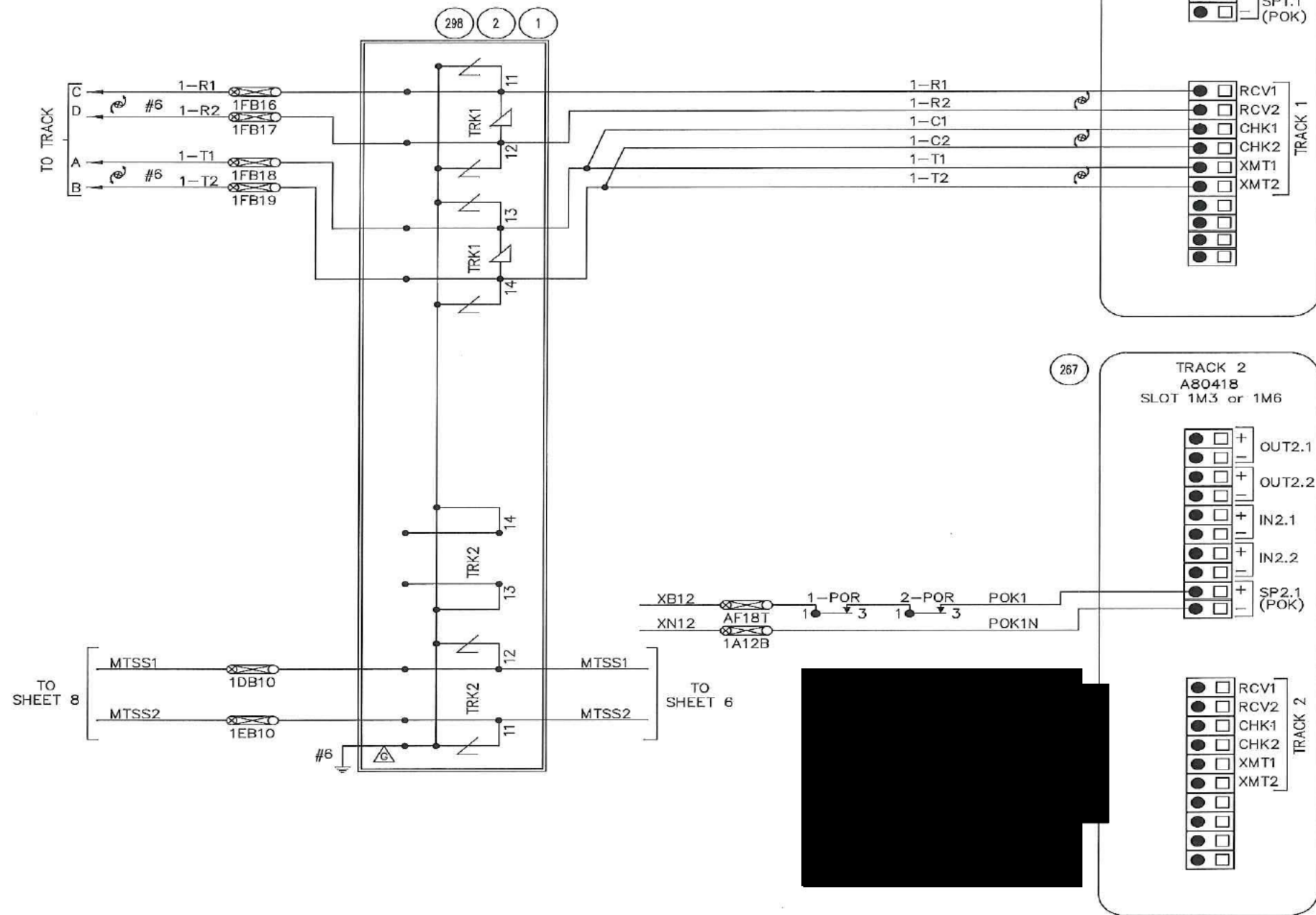
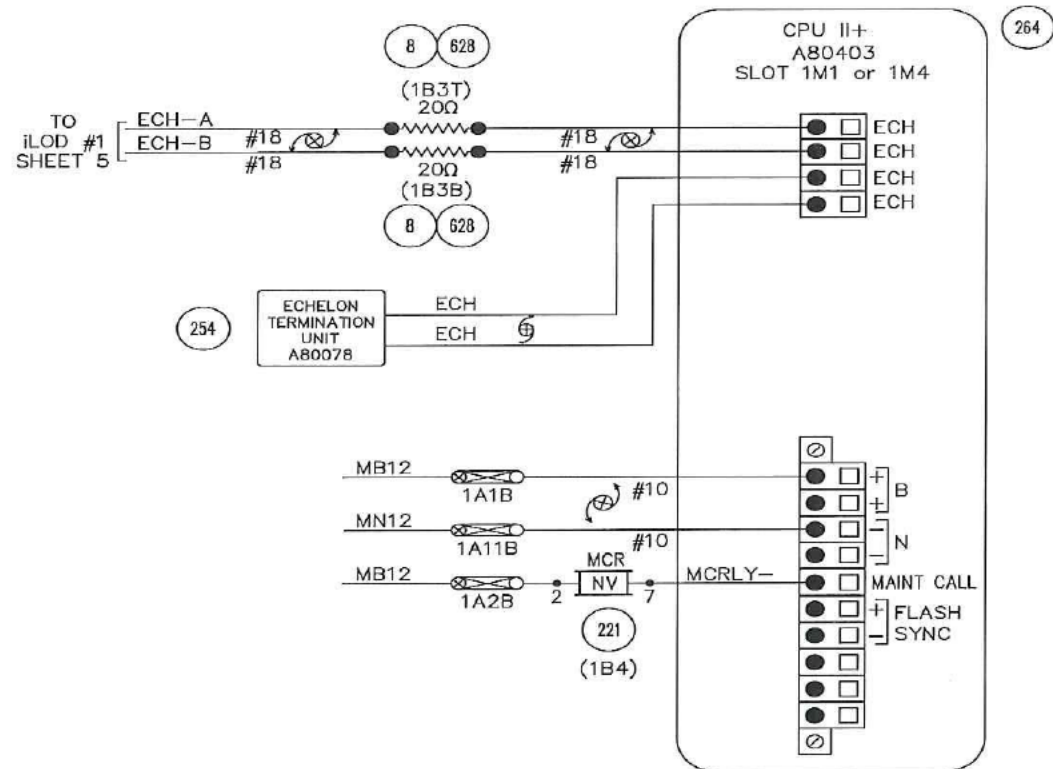
AS DESIGNED-0.00 07-11-19
NEW XING BUNGALOW
INSTALLTION
DES:SMI/KDF CHK:SMI/DAD

DRAWN: SMI
DATE: 07-11-19

DWG NO.

868350S

4 SHEET OF 22



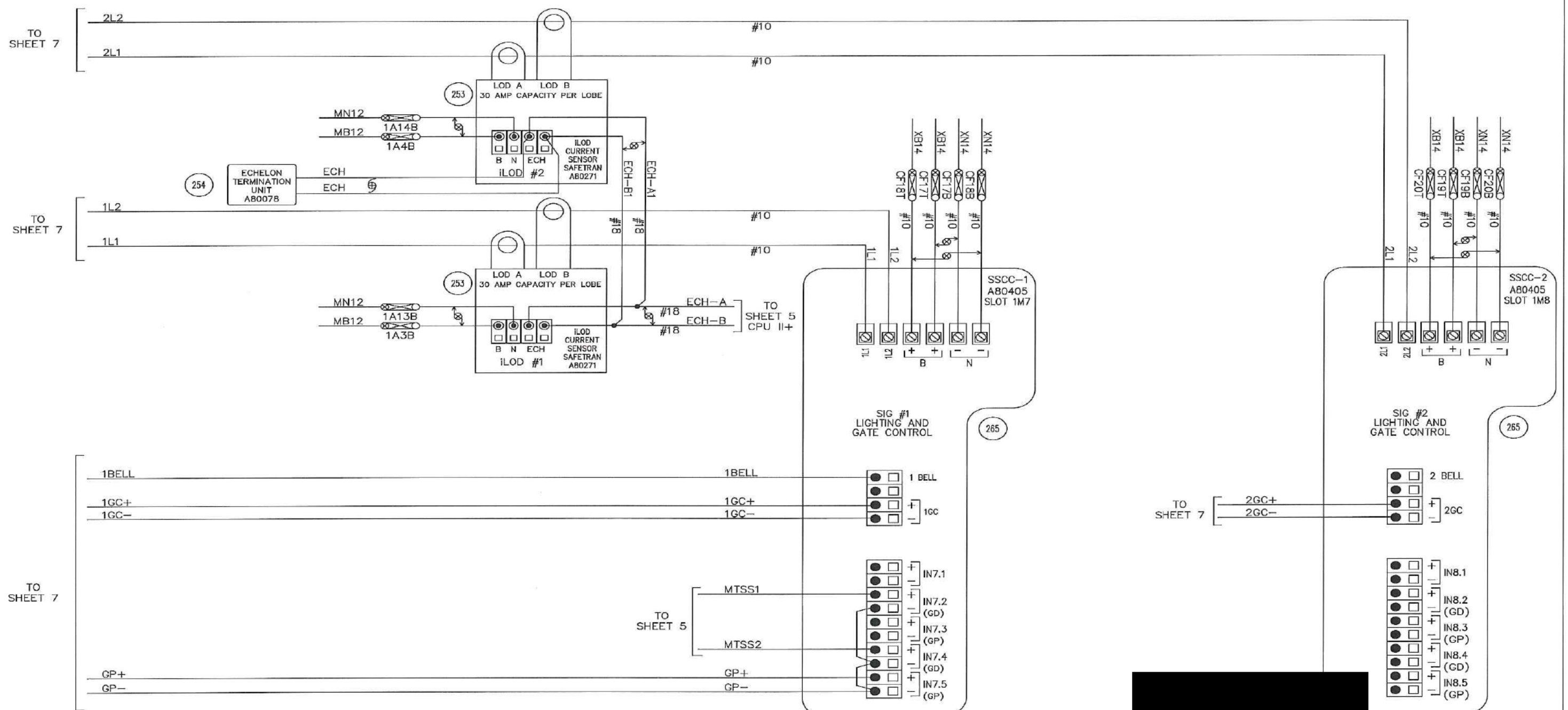
NOTES:

- 1. ALL WIRING TO BE #16 AWG FLEX TEFZEL UNLESS OTHERWISE NOTED.
- ⊗ TWISTED WIRE TWO TURNS PER FOOT

REVISIONS

AS DESIGNED-0.00 07-11-19
 NEW KING BUNGALOW
 INSTALLATION
 DES: SMI/KDF CHK: SMI/DAD

<i>The ALASKA RAILROAD CORPORATION</i>	
SIGNAL ENGINEERING	P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500
LAT: 63.736	DOT 868350S DENALI PARK RD
LONG: -148.915	MP 348.20
RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S
DATE: 07-11-19	5 SHEET OF 22

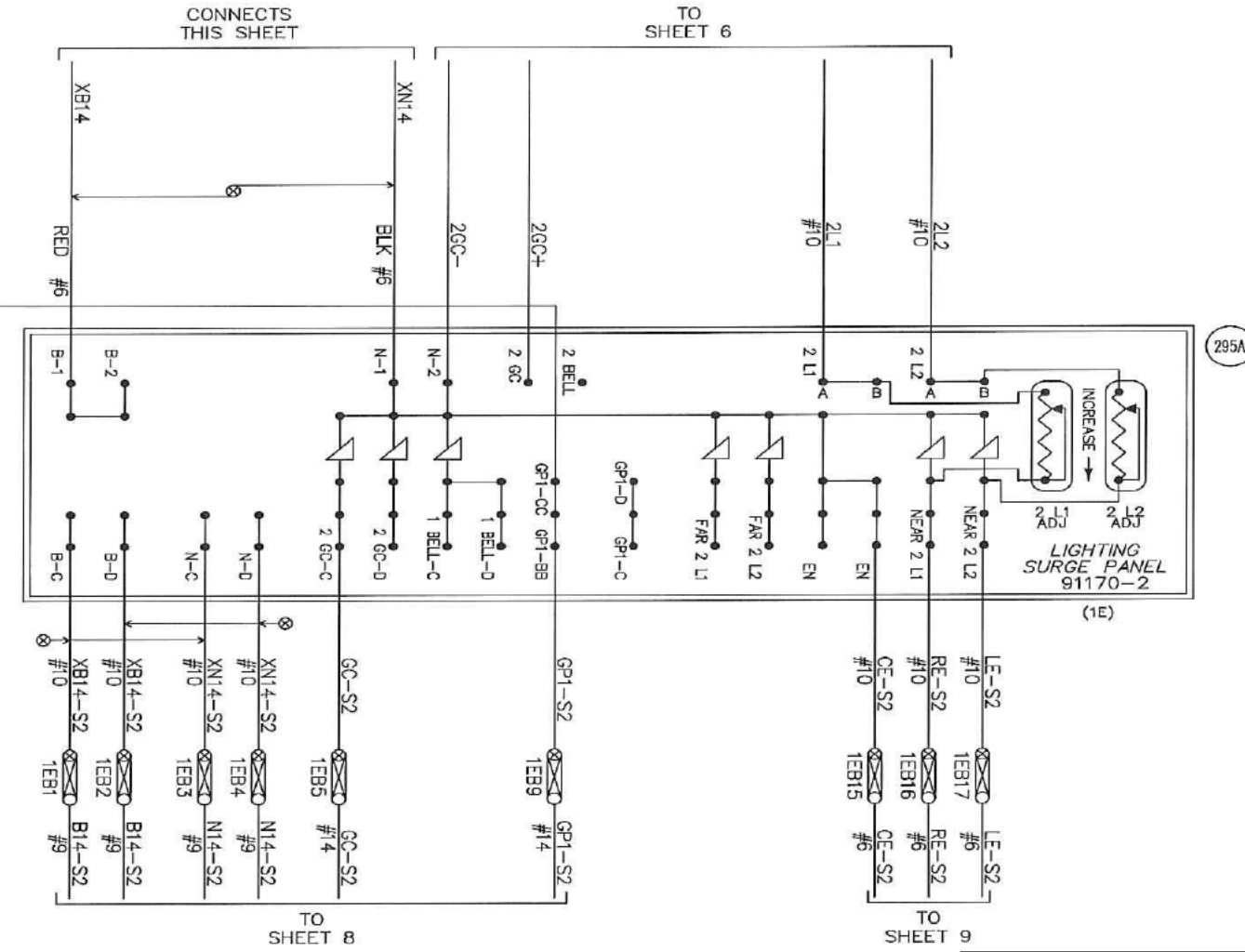
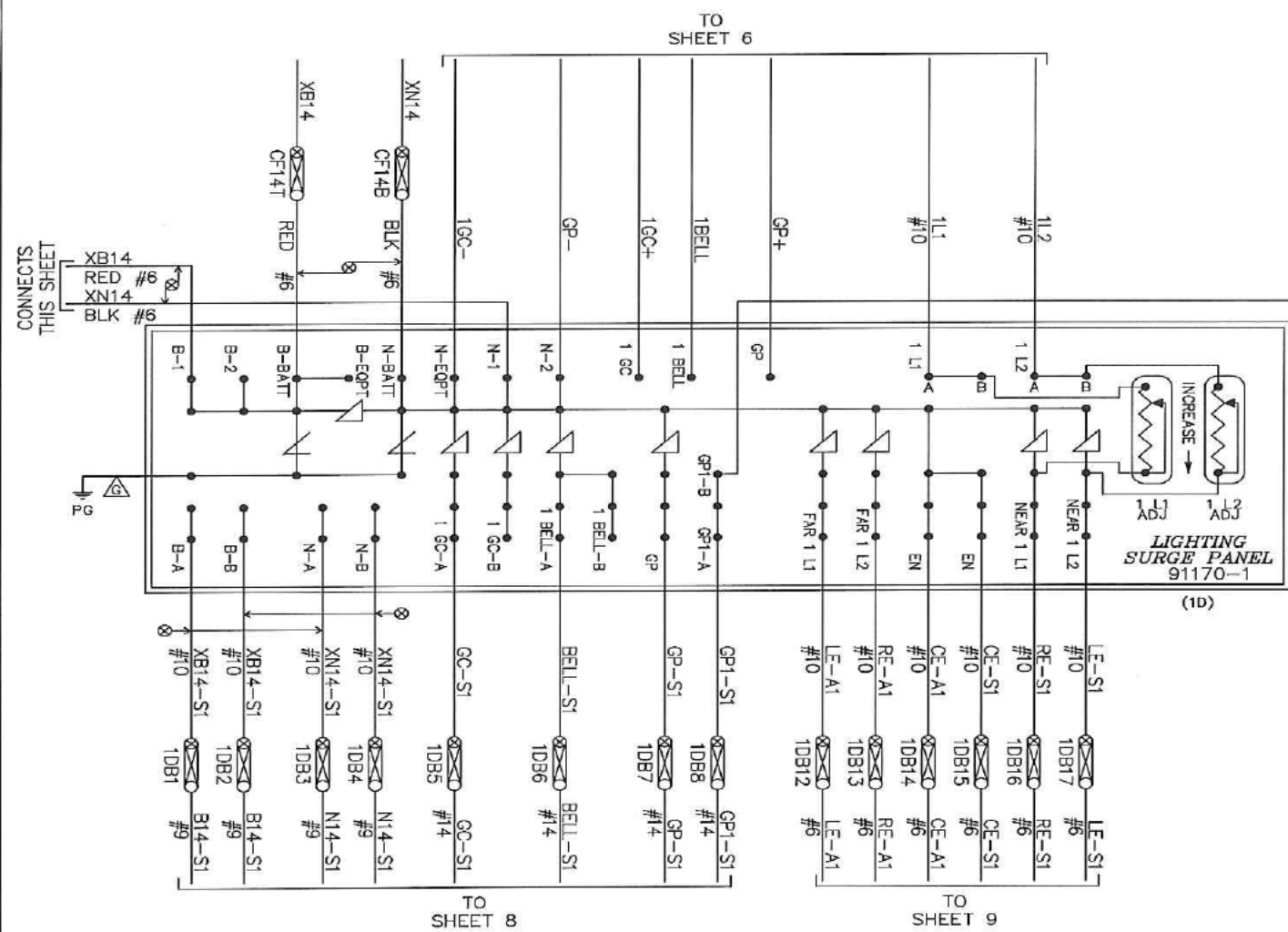


NOTES:
 1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
 TWISTED WIRE TWO TURNS PER FOOT

REVISIONS

AS DESIGNED-0.00 07-11-19
 NEW XING BUNGLOW
 INSTALLATION
 DES: SMI/KDF CHK: SMI/DAD

<i>The ALASKA RAILROAD CORPORATION</i>	
SIGNAL ENGINEERING	P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500
LAT: 63.736	DOT 868350S DENALI PARK RD
LONG: -148.915	MP 348.20
RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S
DATE: 07-11-19	6 SHEET OF 22

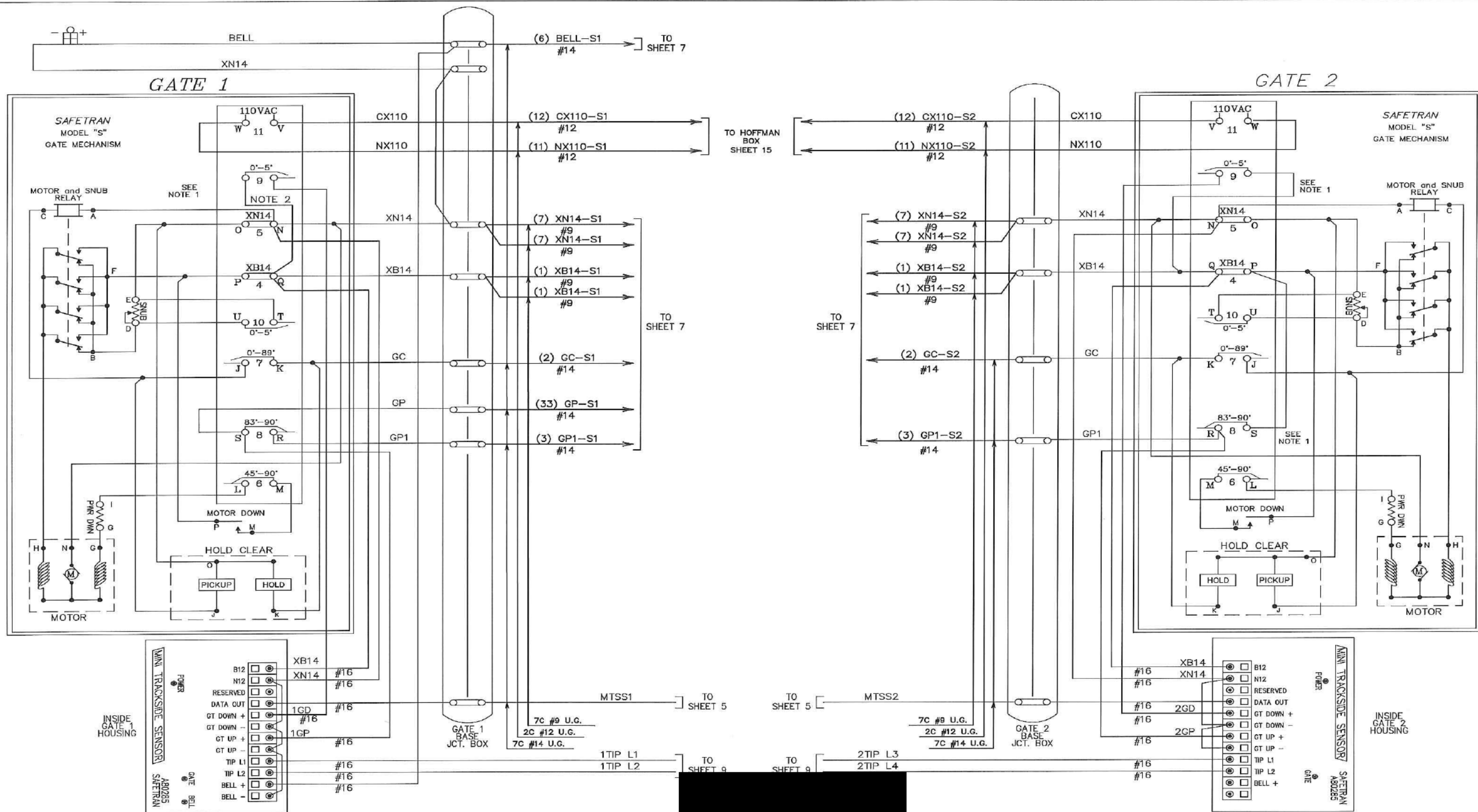


- NOTES:**
1. ALL WIRING TO BE #16 AWG FLEX TEUFEL UNLESS OTHERWISE NOTED.
 2. ALL GROUND WIRES TO BE #6 AWG GREEN TEUFEL UNLESS OTHERWISE NOTED.
- ⊕ TWISTED WIRE TWO TURNS PER FOOT

REVISIONS

AS DESIGNED-0.00 07-11-19
 NEW XING BUNGALOW
 INSTALLTION
 DES:SMI/KDF CHK:SMI/DAD

The ALASKA RAILROAD CORPORATION		P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500	
SIGNAL ENGINEERING	LAT: 63.736	DOT 8683505	DENALI PARK RD
	LONG: -148.915		MP 348.20
		RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S	7 SHEET OF 22	
DATE: 07-11-19			



NOTE:
1. ALL LIGHT WIRES THIS PAGE ARE TO BE #10 AWG.

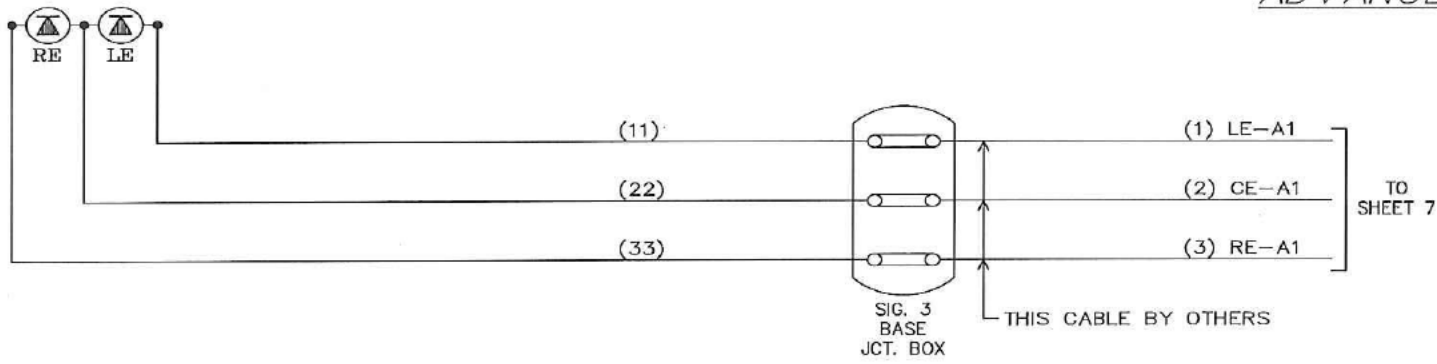
REVISIONS

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NEW XING BUNGALOW
INSTALLATION
DES: SMI/KDF CHK: SMI/DAD

The ALASKA RAILROAD CORPORATION		P.O. BOX 107600, ANCHORAGE, ALASKA 99510-7500	
SIGNAL ENGINEERING		DOT 868350S	
LAT: 63.736	DENALI PARK RD		
	MP 348.20		
LONG: -148.915	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM		
DRAWN: SMI	DWG NO.	868350S	
DATE: 07-11-19		8 SHEET OF 22	

SIG. 3

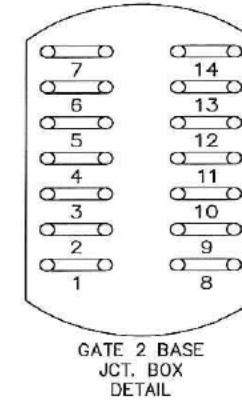
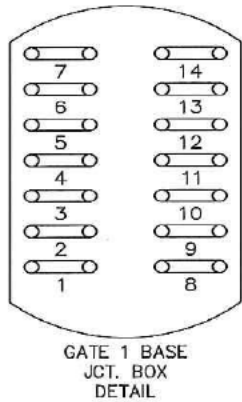
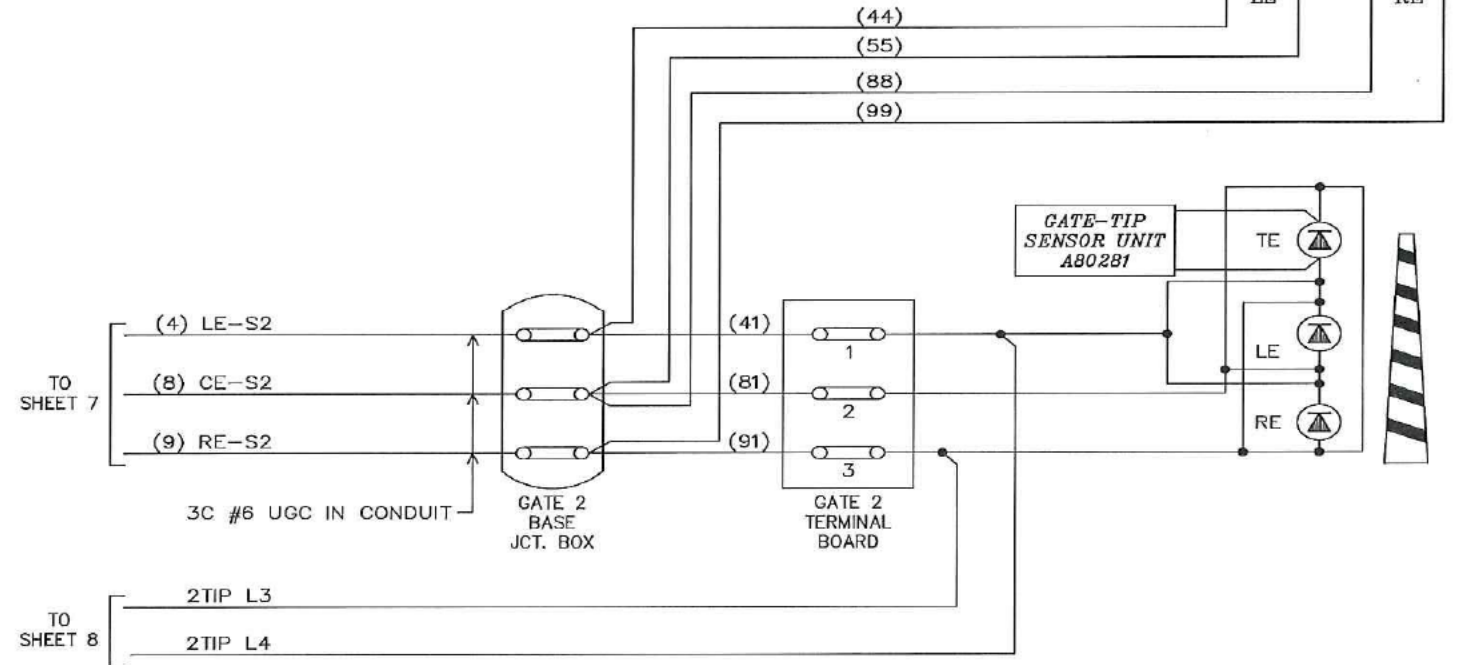
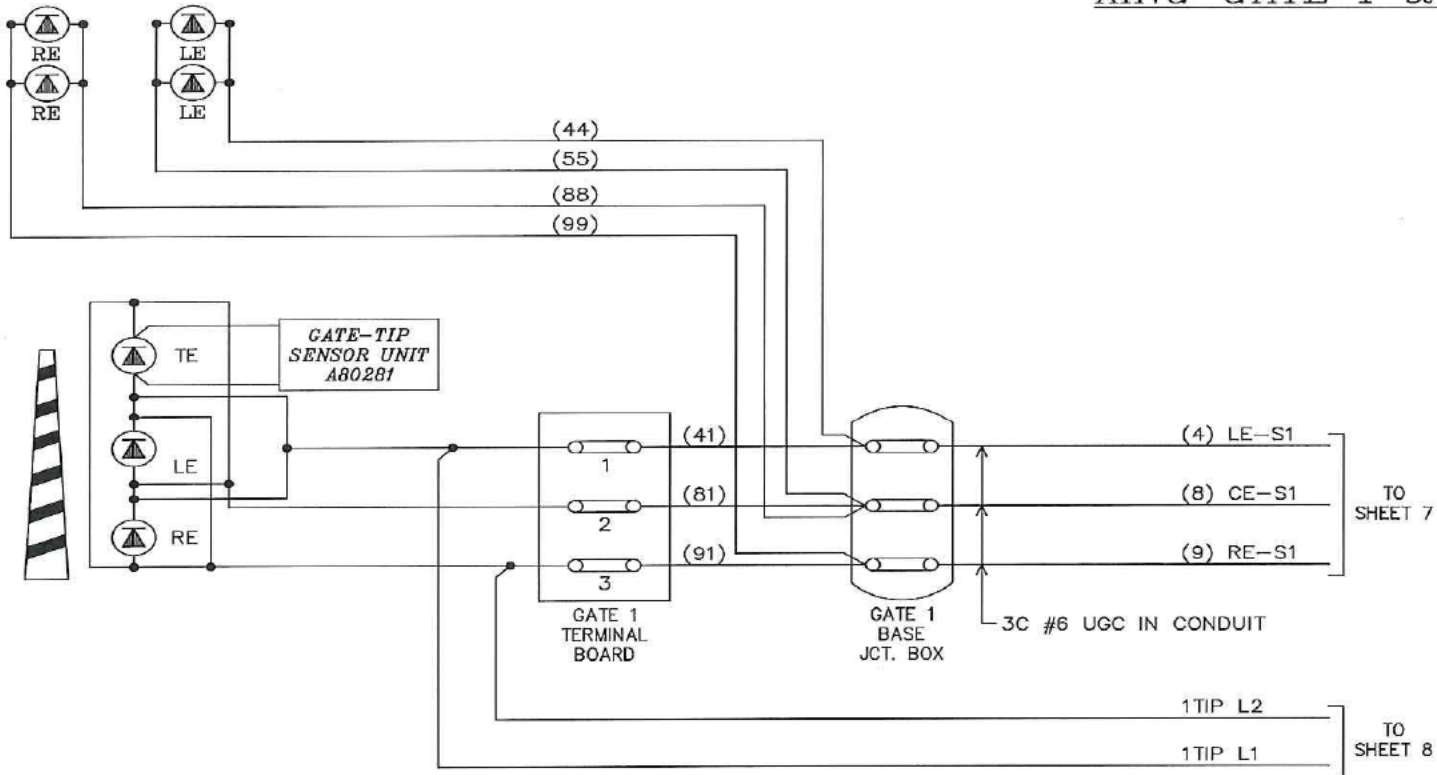
ADVANCE SIGNAL #1



GATE 1

XING GATE 1 & 2 LIGHTING CIRCUITS

GATE 2

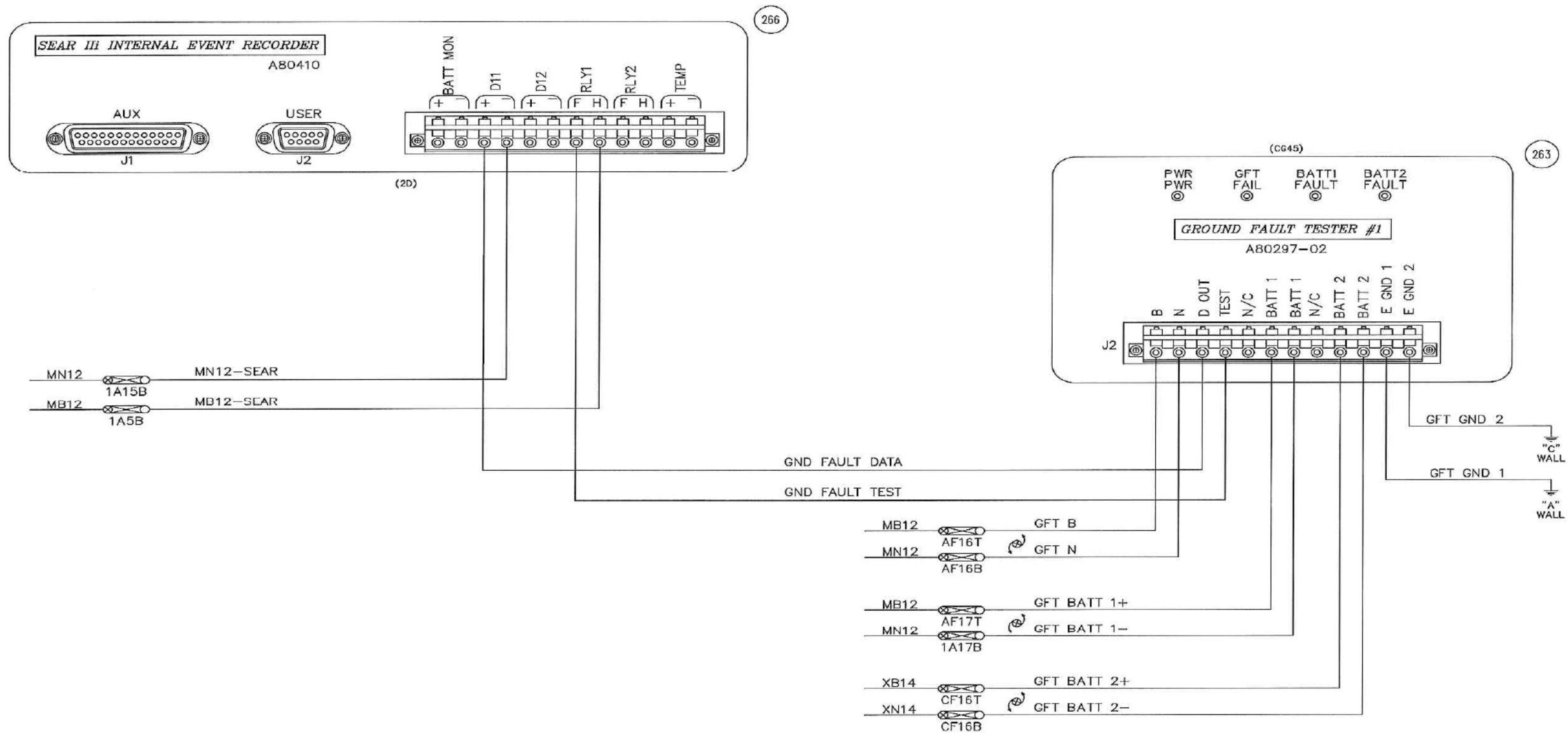


NOTES:
 1. ALL WIRING TO BE #10 AWG FLEX TEFZEL UNLESS OTHERWISE NOTED.

REVISIONS

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<i>The ALASKA RAILROAD CORPORATION</i>	
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RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S
DATE: 07-11-19	9 SHEET OF 22



NOTES:
 1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED.
 2. ALL GROUND WIRES TO BE #12 AWG GREEN TEFLON UNLESS OTHERWISE NOTED.
 Ⓢ TWISTED WIRE TWO TURNS PER FOOT

REVISIONS

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RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI DATE: 07-11-19	DWG NO. 868350S
10 SHEET OF 22	

TO CONFIGURE SEAR II & SEAR III PRESS SITE SETUP KEY. USE ARROW KEYS TO MAKE SELECTION, PRESS ENTER AFTER SELECTION HAS BEEN MADE.

SEAR III PROGRAMMING

PROGRAM MENU QUESTIONS	OPTIONS / RANGE	PROGRAM
SITE NAME?	STREET NAME	DENALI PARK RD
MILE POST?	MILEAGE	348.20
DOT/CROSSING ID #?		868 350 S
TESTER TYPE?	CROSSING, WAYSIDE	CROSSING
AUTOMATIC DST ADJUSTMENT?	YES / NO	YES
TIME ZONE?	EASTERN,CENTRAL,MOUNTAIN, PACIFIC,ALASKA,HAWAII, ATLANTIC,SASKATCHEWAN, NEW FOUNDLAND	ALASKA
GMT OFFSET		N/A
DATE/TIME?	CURRENT DATE/TIME	
DATE FORMAT?	mm-dd-yyy, dd-mm-yyyy	dd-mm-yyyy
TEMPERATURE FORMAT?	FAHRENHEIT,CELSIUS	FAHRENHEIT
INDICATE HOLDOFF		0
SITE TYPE?	NO COM, BULLHORN,DIALUP, NODE,COLLECTOR	COLLECTOR
SITE ATCS ADDRESS?	7.RRR.LLL.GGG.99.01	7.005.100.363.99.01
OFFICE ATCS ADDRESS?	2.RRR.NN.DDDD	2.005.01.9100
OFFICE SITE ATCS ADDRESS? (WHEN SITE TYPE = NODE)	7.RRR.LLL.GGG.99.01	N/A
BACKUP SITE ATCS ADDRESS 1 (WHEN SITE TYPE = NODE)	7.RRR.LLL.GGG.99.01	N/A
BACKUP SITE ATCS ADDRESS 2 (WHEN SITE TYPE = NODE)	7.RRR.LLL.GGG.99.01	N/A
POLL ID? (WHEN SITE TYPE = COLLECTOR)	1-99	1
GEN/ATCS MODE? (WHEN SITE TYPE = COLLECTOR)	NORMAL, EXTENDED	EXTENDED
XID DISABLED? (WHEN SITE TYPE = COLLECTOR)	YES, NO	YES
OFFICE COMM. DEVICE? (WHEN SITE TYPE = COLLECTOR)	DIRECT (RS232) MCM (RS232) MCM (ECHELON) SPREAD SPEC (ECHELON) DIAL MODEM (RS232) S200 RADIO (RS422)	DIAL MODEM (RS232)
OFFICE COMM. PORT (WHEN SITE TYPE = RS232 OR RS422)	AUX, COMM	COMM
MCM ADDRESS (WHEN OFFICE COMM DEVICE = MCM)		N/A
OFFICE PHONE NUMBER (WHEN OFFICE COMM DEVICE = DIAL MODEM)	PHONE NUMBER OF WAMS	907-265-2285
INIT STRING (WHEN OFFICE COMM DEVICE = DIAL MODEM)	OPTIONAL HAYES MODEM INITIALIZATION STRING	N/A
FIELD COMM. DEVICE?	VHF COMM. (ECHELON), VHF COM.(RS232), SPREAD SPECTRUM(ECH), SPREAD SPECTRUM(RS232)	N/A
USER PORT	BAUD,DATA BITS,PARITY, STOP BITS,FLOW CONTROL	57600,8,N,1,N
AUX PORT	BAUD,DATA BITS,PARITY, STOP BITS,FLOW CONTROL	9600,8,N,1,N
COMM PORT BAUD?	BAUD,DATA BITS,PARITY, STOP BITS,FLOW CONTROL	9600,8,N,1,N

PROGRAM MENU QUESTIONS	OPTIONS / RANGE	PROGRAM SEAR III
RESET NAMES/MODULES?	YES / NO	YES
RAILROAD NUMBER	1-999	005
CROSSING CONFIGURATION ?	NORMAL SPLIT GATE DUAL CROSSING EXT. ENTRANCE GATE CONTROLLER(S)	NORMAL
ENTRANCE GATES	0-8	2
GATE POSITION FAIL TIME (SECONDS)	10-60	10
GATES NOT STARTING TIME (SECONDS)	10-20	10
CROSSING ACTIVE TIME (MINUTES)	20-30	20
RING THRU TIME (SECONDS)	10-15	10
BATTERY BANKS	1-3	2
BATT MON USED	NO / YES	NO
INTERNAL CROSSING CONTROLLERS	0-2	2
EXTERNAL CROSSING CONTROLLERS	0-2	0
VHF COMMUNICATOR	YES / NO	NO
DTMF ACTIVATION	YES / NO	NO
ACTIVATION CODE	1-999	N/A
ACTIVATION TIMEOUT(SEC)	1-600	N/A
ILOD MODULES	0-4	2
ANY LED BULBS USED	NO / YES	YES
AUTO INSPECTIONS	YES / NO	NO
BELL SENSORS	0-4	2
BELL SENSOR TSS1	NO / YES	YES
BELL SENSOR TSS2	NO / YES	YES
BELL SENSOR TSS3	NO / YES	N/A
BELL SENSOR TSS4	NO / YES	N/A
BELL SENSOR TSS5	NO / YES	N/A
BELL SENSOR TSS6	NO / YES	N/A
BELL SENSOR TSS7	NO / YES	N/A
BELL SENSOR TSS8	NO / YES	N/A
BELL ON	GATES LOWERING, GATES MOVING, ALWAYS	ALWAYS
GFT'S	YES / NO	YES
BATTERIES ON GFT'S	1-2	2
GATE TIP SENSORS	YES / NO	YES
RTU	NO / YES	NO
VHF VOICE CHANNEL	1-8	N/A
VHF DATA CHANNEL	1-8	N/A
USE NON-CRITICAL FEATURE	NO / YES	NO
FULL APPROACH MOVE ALARMS	ACTIVATE, DO NOT ACTIVATE	ACTIVATE

PROGRAM MENU QUESTIONS	PROGRAM
EDIT DIGITAL INPUTS	NO
EDIT BATTERIES	NO
EDIT RELAYS	NO
EDIT INDICATOR LEDS	NO
EDIT TEST LEDS	NO
EDIT ILOD SENSORS	NO
EDIT VHF SETTINGS	NO

YOU WILL NOW SEE A MESSAGE "PLEASE WAIT COMPILING STAGE 2"
CONTINUE TO NEXT PROGRAM MENU QUESTIONS.

YOU WILL NOW SEE A MESSAGE "PLEASE WAIT COMPILING STAGE 1"
CONTINUE TO NEXT PROGRAM MENU QUESTIONS.

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

LAT: 63.736 DOT 868350S DENALI PARK RD
MP 348.20
LONG: -148.915 RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM

REVISIONS

AS DESIGNED-0.00 07-11-19
NEW XING BUNGALOW
INSTALLTION
DES:SMI/KDF CHK:SMI/DAD

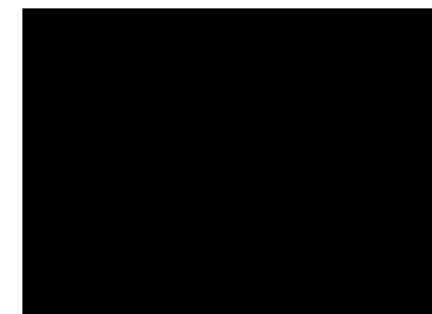
DRAWN: SMI
DATE: 07-11-19

DWG NO.

868350S

11 SHEET OF 22

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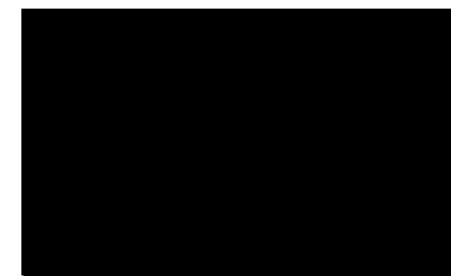


REVISIONS

AS DESIGNED-0.00	07-11-19
NEW XING BUNGALOW	
INSTALLTION	
DES:SMI/KDF	CHK:SMI/DAD

<i>The ALASKA RAILROAD CORPORATION</i>	
SIGNAL ENGINEERING P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
LAT: 63.736	DOT 868350S DENALI PARK RD
LONG: -148.915	MP 348.20
RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S
DATE: 07-11-19	12 SHEET OF 22

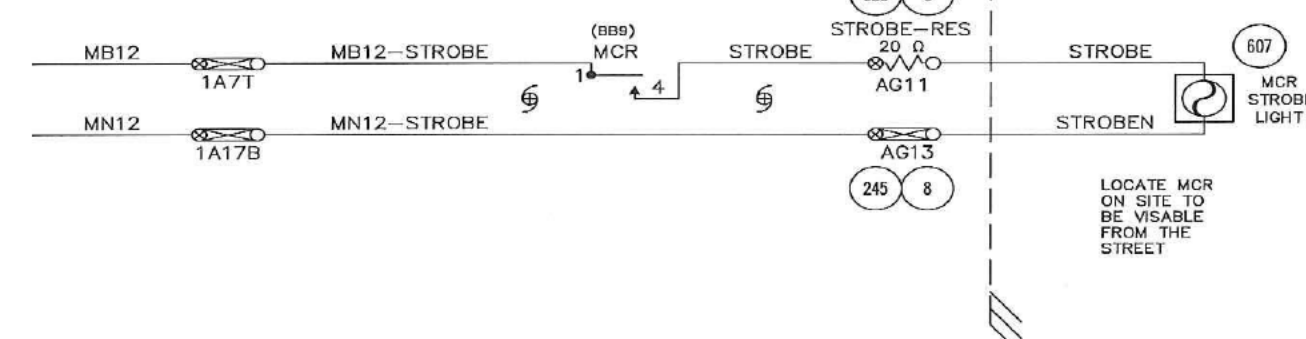
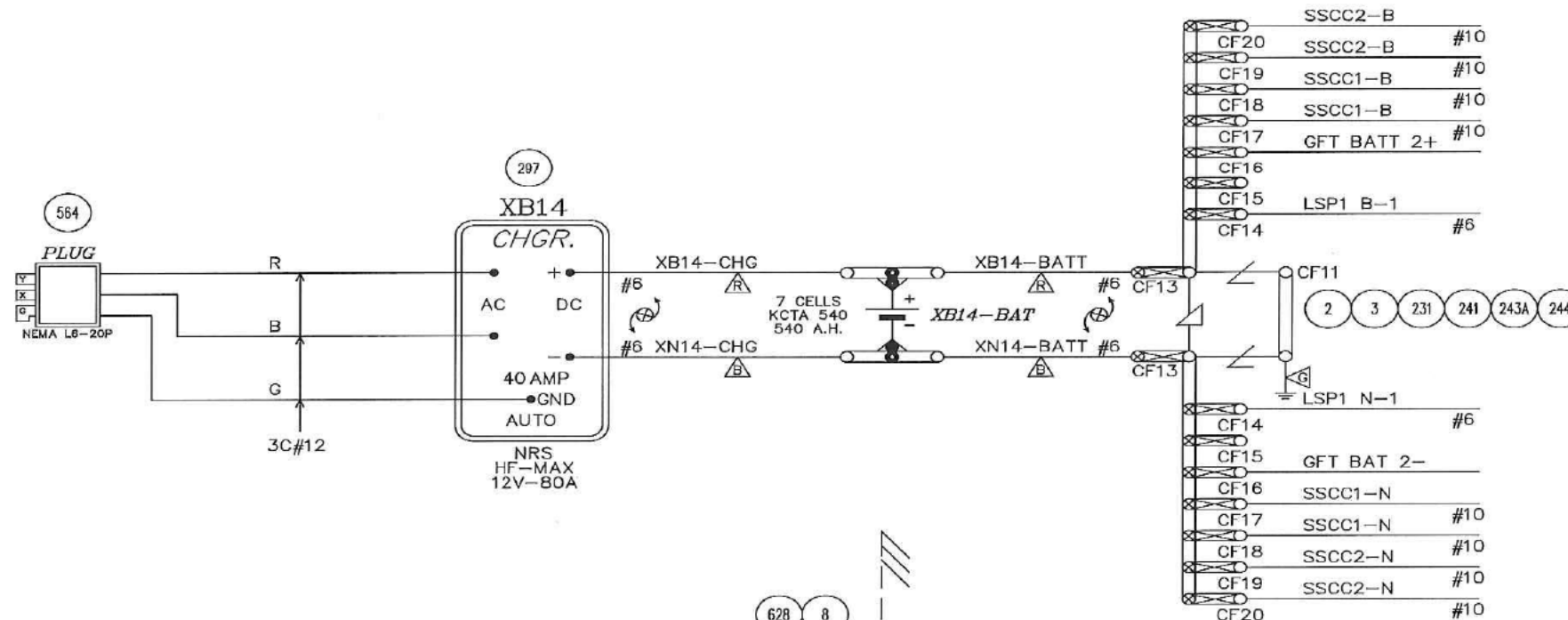
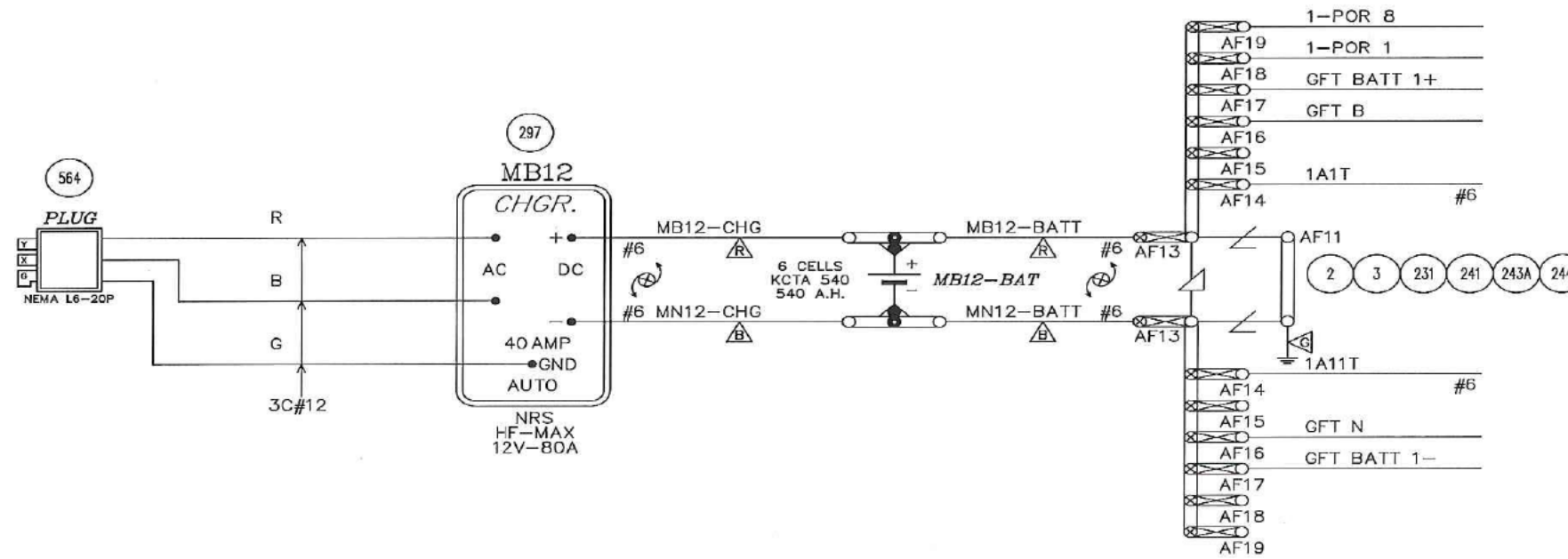
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REVISIONS

AS DESIGNED-0.00	07-11-19
NEW XING BUNGALOW	
INSTALLTION	
DES: SMI/KDF	CHK: SMI/DAD

<i>The ALASKA RAILROAD CORPORATION</i>	
SIGNAL ENGINEERING	P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500
LAT: 63.736	DOT 868350S DENALI PARK RD
LONG: -148.915	MP 348.20
RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: <i>SMI</i>	DWG NO. 868350S
DATE: 07-11-19	13 SHEET OF 22

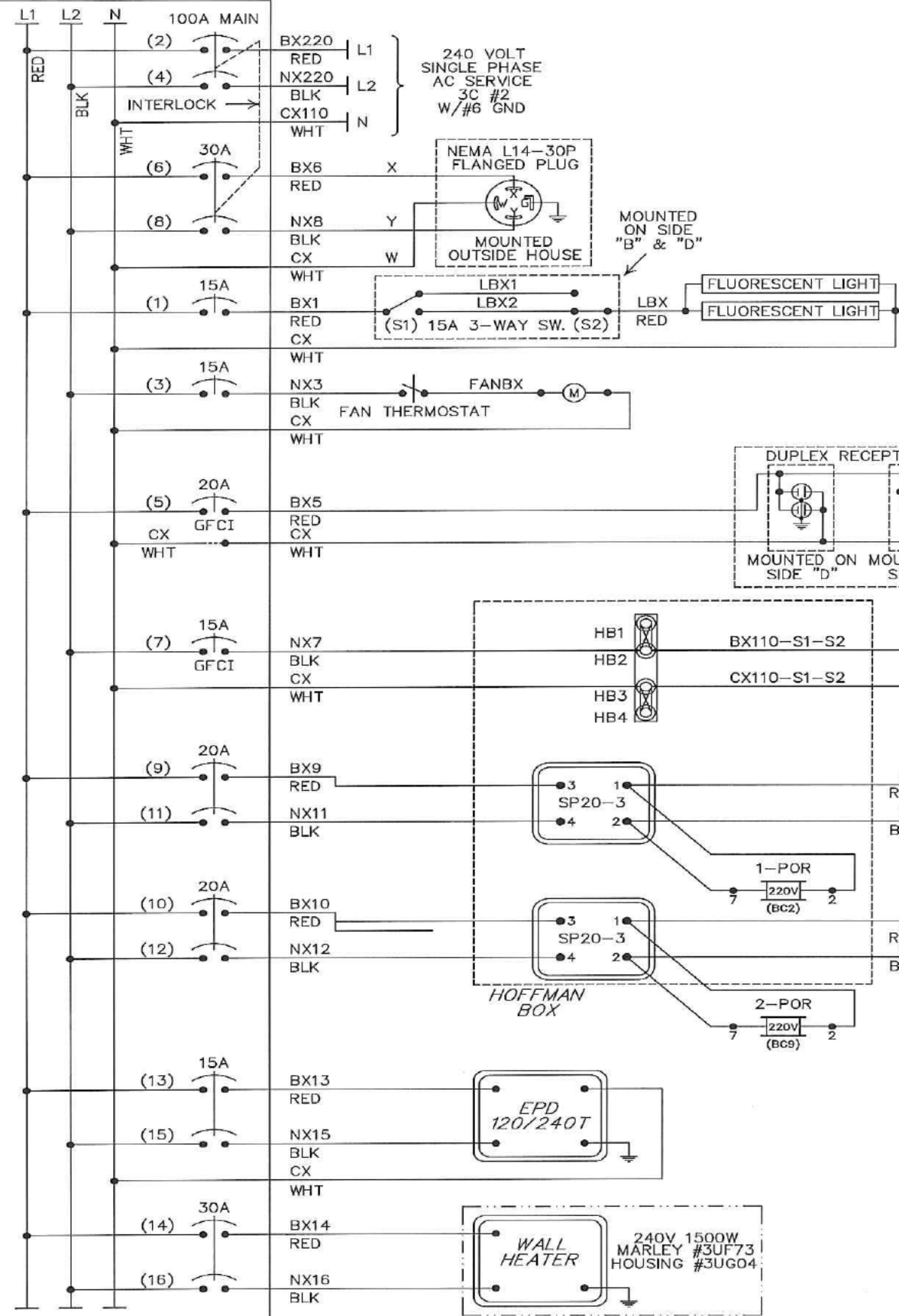


NOTES:
 1. ALL WIRING TO BE #16 AWG FLEX TEFLON UNLESS OTHERWISE NOTED..
 TWISTED WIRE TWO TURNS PER FOOT

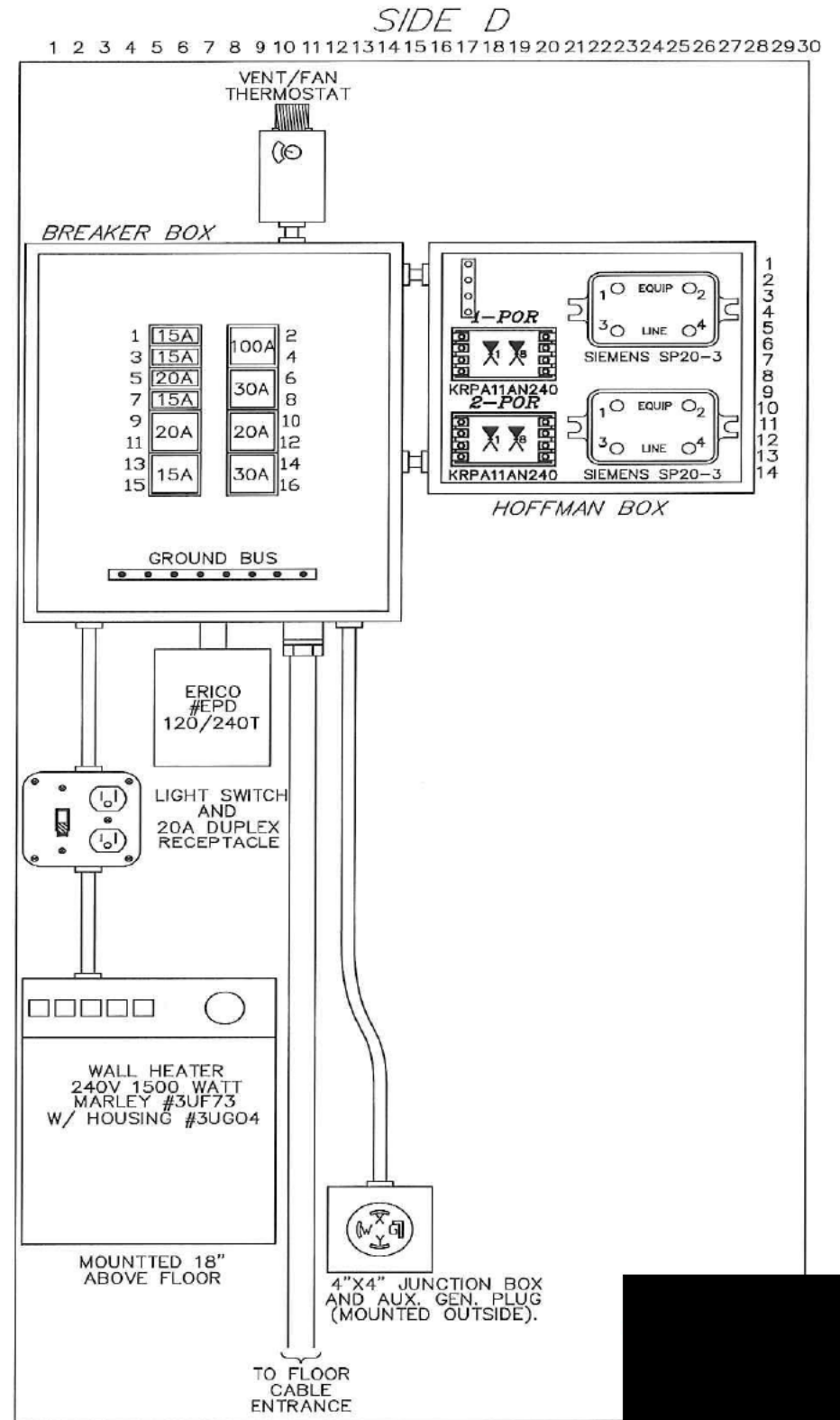
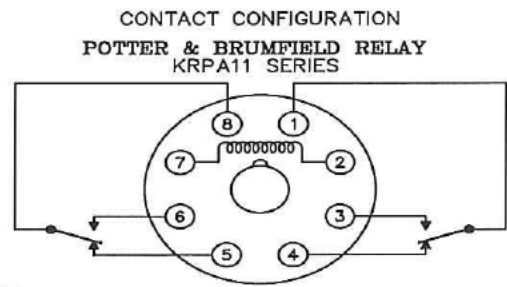
REVISIONS

AS DESIGNED-0.00 07-11-19
 NEW XING BUNGALOW
 INSTALLATION
 DES: SMI/KDF CHK: SMI/DAD

The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500
LAT: 63.736	DOT 8683505 DENALI PARK RD
LONG: -148.915	MP 348.20
RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S
DATE: 07-11-19	14 SHEET OF 22



- NOTES:
- USE THE FOLLOWING COLOR CODE:
 GRN - GREEN - SAFETY EQUIPMENT GROUND
 WHT - WHITE - CX110 (NEUTRAL)
 BLK - BLACK - NX220 (L2)
 RED - RED - BX220 (L1)
 EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTOR UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
 - = WIRE NUT
 - MINIMUM WIRE SIZE:
 10 AMP - NO. 14 AWG THHN OR THWN SOLID
 20 AMP - NO. 12 AWG THHN OR THWN SOLID
 30 AMP - NO. 10 AWG THHN OR THWN SOLID
 - GROUND FAULT INTERRUPT (GFCI) MUST BE USED ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED GFCI MAY BE USED INSTEAD OF BREAKER TYPE.
 - ALL GROUND WIRES RUN TO BREAKER BOX GROUND BUS.

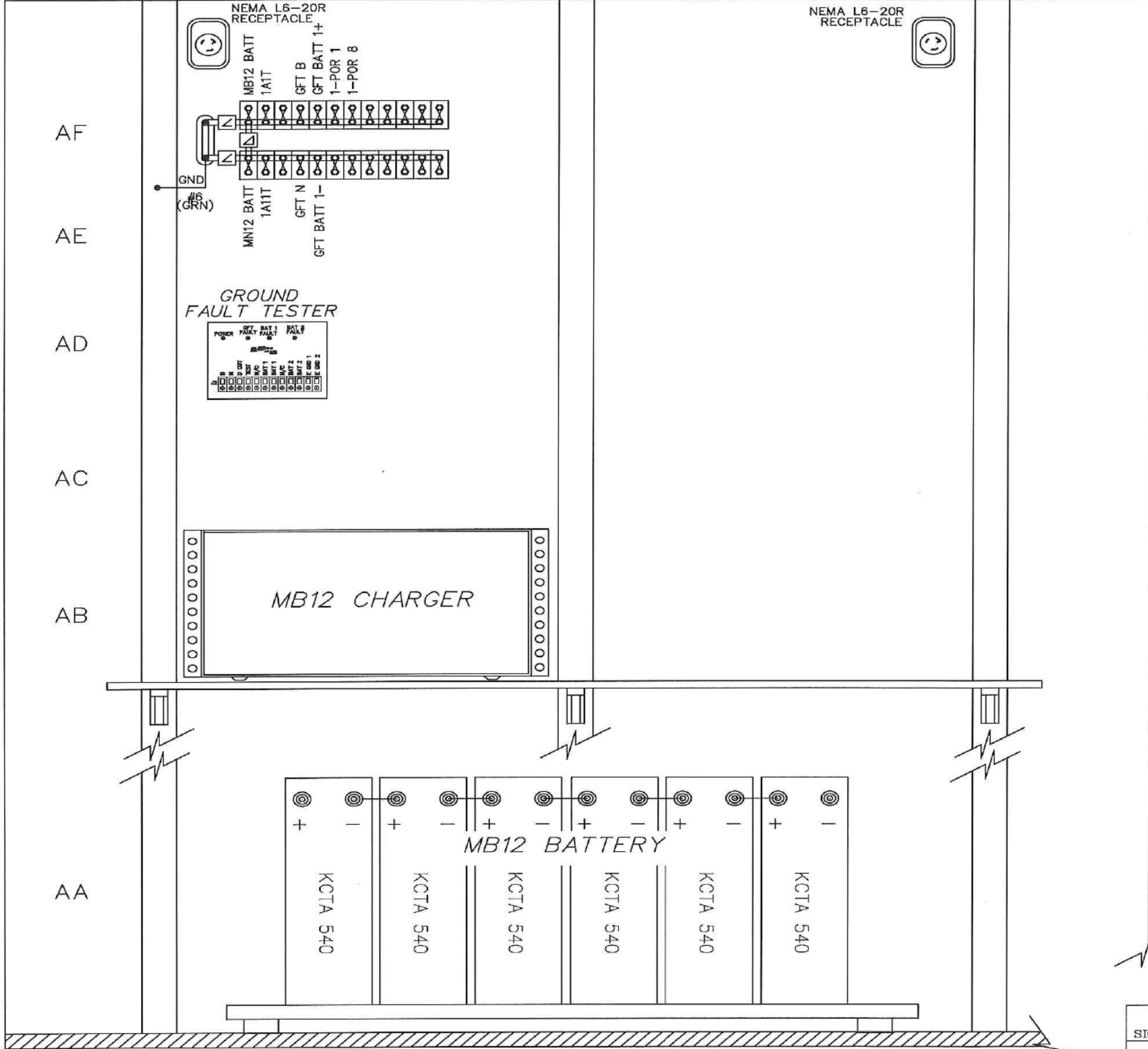


SQUARE D PART NUMBERS
 BREAKER BOX: Q0120L125G
 SURFACE KIT: Q0C24US
 GROUND KIT: PK12GTA
 INTERLOCK: Q02DT1

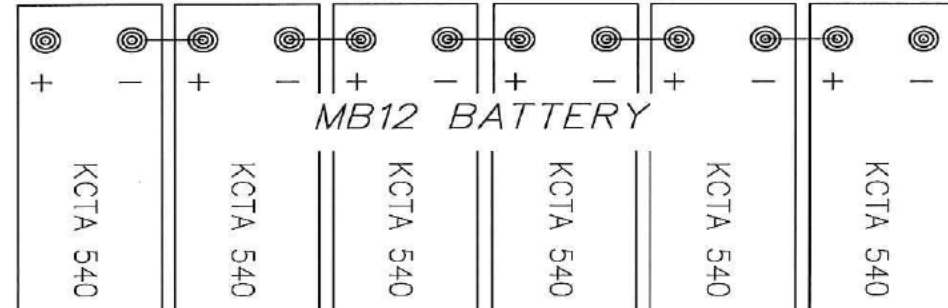
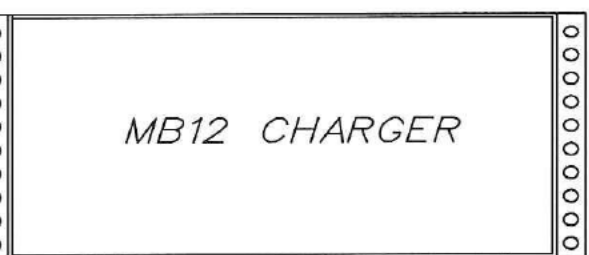
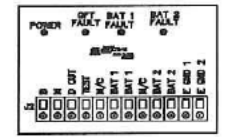
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 NEW XING BUNGALOW
 INSTALLATION
 DES: SMI/KDF CHK: SMI/DAD

The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500
LAT: 63.736	DOT 8683505 DENALI PARK RD MP 348.20
LONG: -148.915	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
DRAWN: SMI DATE: 07-11-19	DWG NO. 868350S
15 SHEET OF 22	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64



GROUND FAULT TESTER



HOUSE FLOOR
SIDE "A"

REVISIONS

The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	P.O. BOX 107600 , ANCHORAGE , ALASKA 99510-7500
LAT: 63.736	DOT 868350S DENALI PARK RD MP 348.20
LONG: -148.915	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
DRAWN: SMI DATE: 07-11-19	DWG NO. 868350S

AS DESIGNED-0.00 07-11-19
NEW XING BUNGALOW
INSTALLTION
DES: SMI/KDF CHK: SMI/DAD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

CF

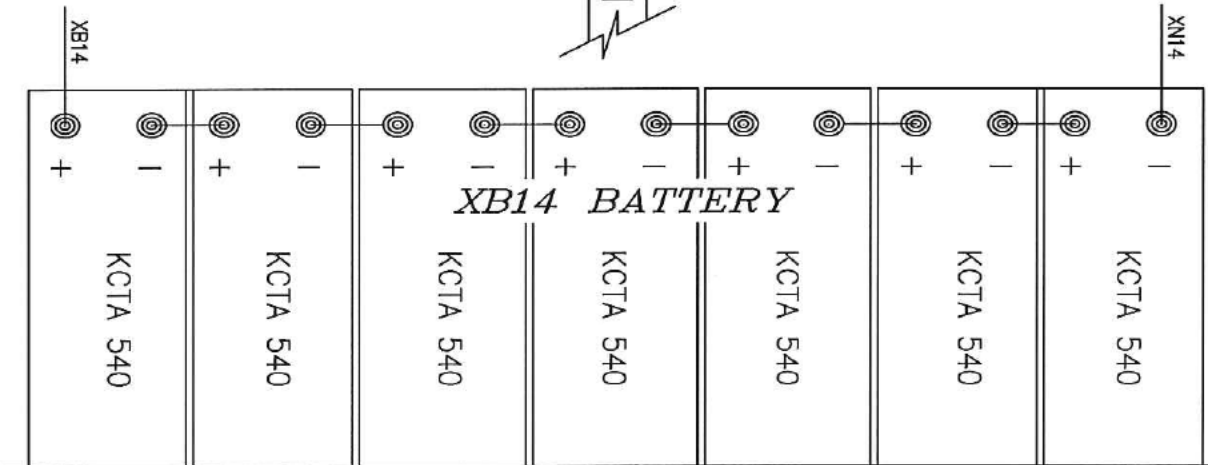
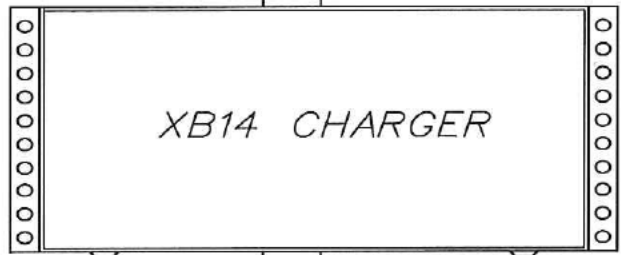
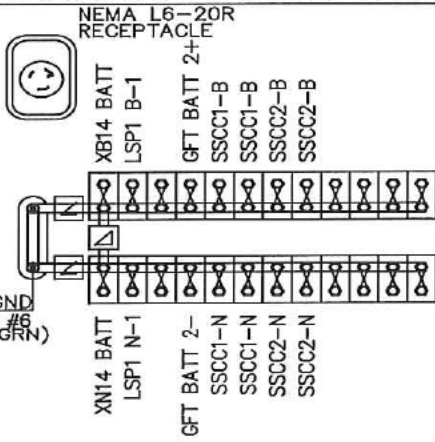
CE

CD

CC

CB

CA



HOUSE FLOOR
SIDE C

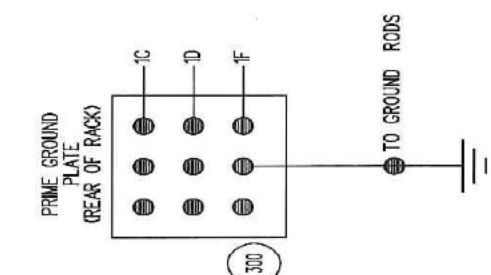
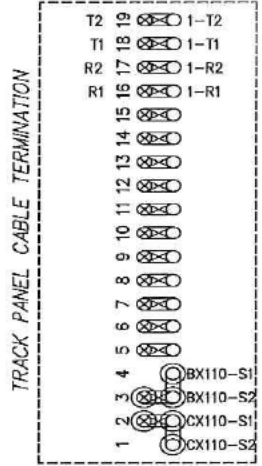
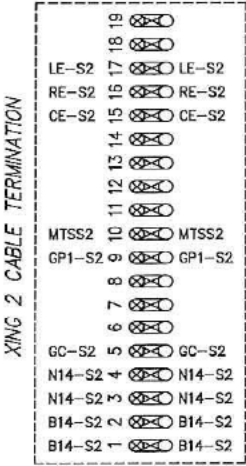
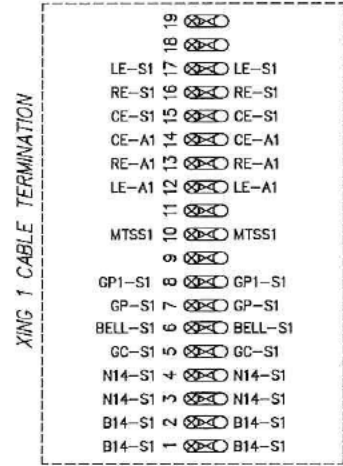
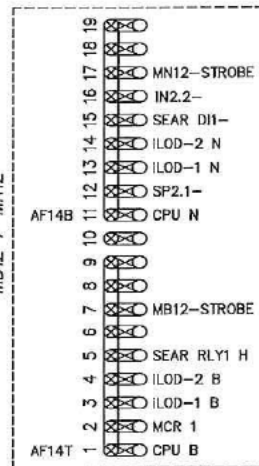
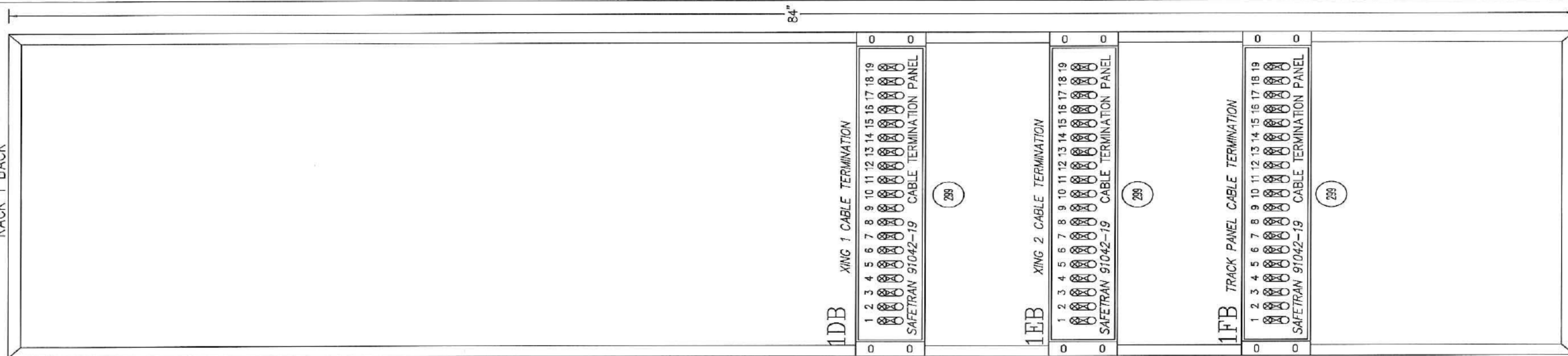
The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500
LAT: 63.736	DOT 868350S DENALI PARK RD MP 348.20
LONG: -148.915	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
DRAWN: SMI DATE: 07-11-19	DWG NO. 868350S
AS DESIGNED-0.00 07-11-19 NEW XING BUNGALOW INSTALLTION DES:SMI/KDF CHK:SMI/DAD	17 OF 22 SHEET

REVISIONS

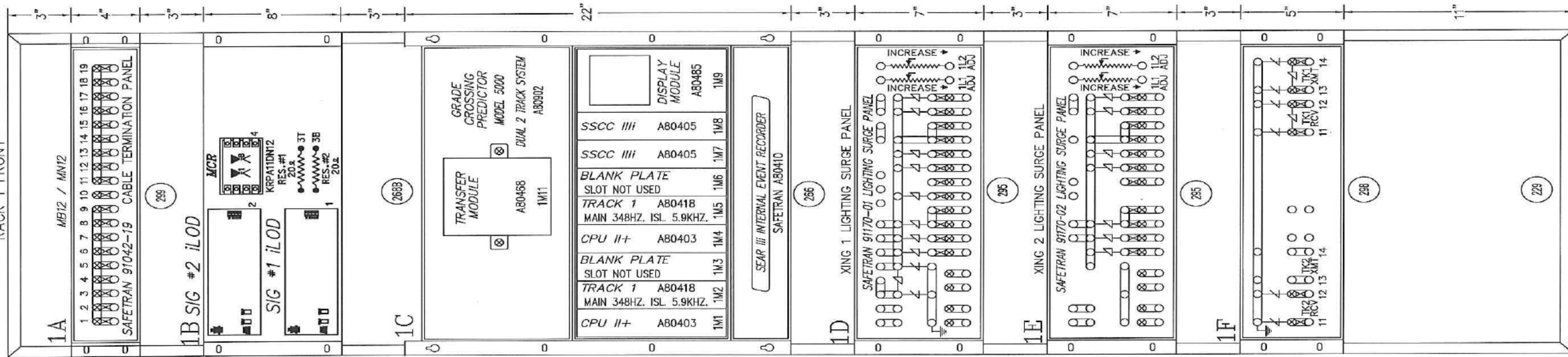


RACK 1 BACK

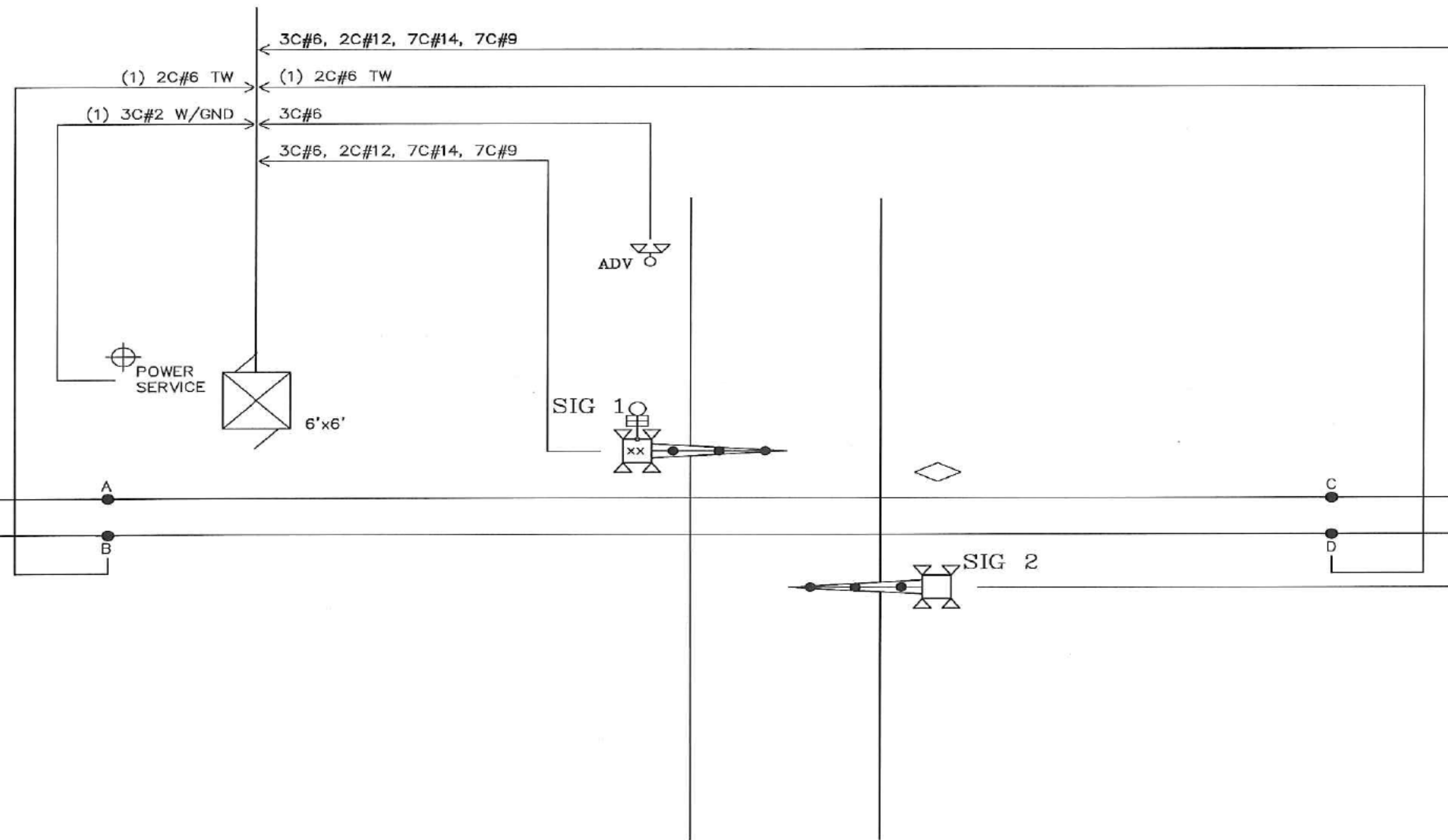
MB12 / MN12



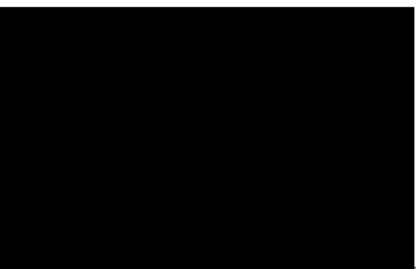
RACK 1 FRONT



REVISIONS		The ALASKA RAILROAD CORPORATION	
AS DESIGNED-0.00	07-11-19	SIGNAL ENGINEERING	P.O. BOX 107500, ANCHORAGE, ALASKA 99510-7500
NEW XING BUNGALOW	INSTALLATION	LAT: 63.736	DOT 8683505 DENALI PARK RD
DES:SMI/KDF	CHK:SMI/DAD	LONG: -148.915	MP 348.20
			RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
		DRAWN: SMI	DWG NO. 868350S
		DATE: 07-11-19	18 SHEET OF 22



DENALI PARK
 DOT 868 350S
 MP 348.20



The ALASKA RAILROAD CORPORATION	
SIGNAL ENGINEERING	P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500
LAT: 63.736	DOT 868350S DENALI PARK RD MP 348.20
LONG: -148.915	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
AS DESIGNED-0.00 07-11-19 NEW XING BUNGALOW INSTALLTION	DRAWN: SMI DWG NO. 868350S
DES: SMI/KDF CHK: SMI/DAD	DATE: 07-11-19 19 OF 22

REVISIONS

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MAT. REF. NO.	MANUFACTURERS PART NO.	DESCRIPTION	MANUFACTURER	QTY	REMARKS
1	4000446150000	HD ARRESTOR W/ 3 POST PORCELAIN	SIEMENS	4	80026-35
2	4000447000000	HD EQUALIZER	SIEMENS	4	OR APPROVED EQUAL
3	4000444850000	ARRESTOR	SIEMENS	4	OR APPROVED EQUAL
8	023612-5X	BAKELITE TERMINAL BLOCK	SIEMENS	4	BLOCK FOR ARRESTORS, RESISTORS & EQUALIZERS
220A	27E123	RELAY BASE - NV SCREW TERM (KRPA14)	TE	1	
221	KRPA-11DN-12	RELAY - NV, 10A 12VDC, DPDT	TE	1	
221B	27E122	RELAY BASE - NV SCREW TERM (KRPA11)	TE	3	
223	KRPA-11AN-240	RELAY - NV, 10A 240VDC, DPDT	POTTER & BRUMFIELD	2	
229	003314-T10527	EQUIPMENT RACK - 24" STANDARD	SIEMENS	1	OR APPROVED EQUAL
231	023390-11X	TERM. - UNIVERSAL 390 (12 POST)	SIEMENS	9	80026-35 OR APPROVED EQUAL
234	23408-23X	INSULATED NUT (1-1/16")	SIEMENS	48	OR APPROVED EQUAL
240	023839-2	BUSS CONNECTOR - 1"	SIEMENS	12	OR APPROVED EQUAL
241	023839-5	BUSS CONNECTOR - 1" (ORDER TO LENGTH)	SIEMENS	13	OR APPROVED EQUAL
243A	023839-1	BUSS CONNECTOR - 2 3/8"	SIEMENS	2	OR APPROVED EQUAL
244	024620-1X	STRAIGHT INSULATED LINK - 1"	SIEMENS	182	INCLUDES SPECIAL NUT & NUT CLAMP
245	024620-4X	STRAIGHT INSULATED LINK - 2 3/8"	SIEMENS	1	INCLUDES SPECIAL NUT & NUT CLAMP
247	027614-1X	FUSE BLOCK - BAKELITE MODEL 614	SIEMENS	1	
253	A80271	ILOD CURRENT SENSOR	SIEMENS	2	
254	A80078	ECHOLON TERMINAL UNIT	SIEMENS	2	
257	A80281	GATE TIP SENSOR	SIEMENS	2	
260	A80285	MINI TRACKSIDE SENSOR	SIEMENS	2	FOR S GATE MECH
263	A80297-02	GROUND FAULT SENSOR	SIEMENS	1	
264	A80403	GCP - CPU	SIEMENS	1	
265	A80405	GCP - SSCC III	SIEMENS	2	
266	A80410	GCP - SEAR III INTERNAL EVENT RECORDER	SIEMENS	1	
268B	A80902	GCP 5000 - REDUNDANT 2-TRACK CHASSIS	SIEMENS	1	
267	A80418	GCP - TRACK MODULE	SIEMENS	2	
270	A80468	GCP - TRANSFER MODULE	SIEMENS	1	
272A	A80485-1	GCP 5000 - DISPLAY MODULE	SIEMENS	1	
295	91170-01	LIGHTING SURGE PANEL	SIEMENS	1	
295A	91170-02	LIGHTING SURGE PANEL	SIEMENS	1	
297	NRS	BATTERY CHARGER - HF-MAX	SIEMENS	2	
298	80026-35	TRACK SURGE PANEL	SIEMENS	1	
299	91042-19	CABLE TERMINATION PANEL	SIEMENS	4	
300	093999-T00188	PRIME GROUND PLATE	SIEMENS	1	
308	005314-T09894	TIE BAR, 23" RACK	SIEMENS	10	



The ALASKA RAILROAD CORPORATION	
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LAT: 63.736	DOT 868350S DENALI PARK RD MP 348.20
LONG: -148.915	RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM
AS DESIGNED-0.00 07-11-19 NEW XING BUNGALOW INSTALLTION DES: SMI/KDF CHK: SMI/DAD	DRAWN: SMI DWG NO. 868350S DATE: 07-11-19

REVISIONS

MAT. REF. NO.	MANUFACTURERS PART NO.	DESCRIPTION	MANUFACTURER	QTY	REMARKS
420	KCTA-540	BATTERY - 540 A.H. LEAD CALCIUM	C&D TECHNOLOGIES	13	
427		BATTERY TRAY		2	
451	3UF73	240v 1500 WATT WALL HEATER	MARLEY	1	
453	3UG04	WALL HEATER HOUSING	MARLEY	1	
466	AHE-12X12X6	HOFFMAN ENCLOSURE	HOFFMAN	1	OR APPROVED EQUAL
468	EPD120/240T	SURGE PROTECTOR - AC PRIMARY	ERICO	1	
470	DGXZ+15NMNF-A	SURGE PROTECTOR - 800 TO 2,500 MHZ	POLYPHASE	1	
477	FRN-R-20	FUSE - 20 AMP	BUSSMAN	1	
532	NC400				
563A	L6-20R	NEMA L6-20R RECEPTACLE		4	OR APPROVED EQUAL
564	L6-20P	NEMA L6-20P FLANGED PLUG		1	OR APPROVED EQUAL
575	Q0120L125G	HOUSE BREAKER BOX	SQUARE D/SCHNEIDER	1	OR APPROVED EQUAL
579	PK12GTA	BREAKER BOX GROUND PAR KIT	SQ D	1	OR APPROVED EQUAL
583	PK7GTA	BREAKER BOX GROUND BUSS	SQ D	1	OR APPROVED EQUAL
584A	GB-HKU	UNIVERSAL GROUND BAR KIT	ANDREW	1	
584B	GB-0210.01	COPPER GROUND BUSS BAR	ANDREW	1	
585	Q02DT1	INTERLOCK	SQ D	1	OR APPROVED EQUAL
588	Q0115	C/B - 15 AMP (SINGLE POLE)	SQ D	2	OR APPROVED EQUAL
589	Q0220	C/B - 20 AMP (DOUBLE POLE)	SQ D	2	OR APPROVED EQUAL
590	Q0215	C/B - 15 AMP (DOUBLE POLE)	SQ D	1	OR APPROVED EQUAL
591	Q0230	C/B - 30 AMP (DOUBLE POLE)	SQ D	2	OR APPROVED EQUAL
592	Q0115GFI	C/B - 15 AMP - GFCI - (SINGLE POLE)	SQ D	1	OR APPROVED EQUAL
593		C/B - 20 AMP - GFCI - (SINGLE POLE)	SQUARE D/SCHNEIDER	1	OR APPROVED EQUA
597	Q0230	C/B - 100 AMP	SQ D	1	OR APPROVED EQUAL
599	5036-0	RAYNTITE WEATHERPROOF COVER	HUBBELL	1	
600		HOUSE JUNCTION BOX - S1 (4X4)		1	
602	1UHH4	HOUSE VENT FAN THERMOSTAT	GRAINGER	1	
604	1TDR3	HOUSE VENT FAN	GRAINGER	1	
607		HOUSE STROBE LIGHT		1	
608		HOUSE LIGHT SNAP SWITCH		2	
610		CFI OUTLETS		2	
614		HOUSE FLUORESCENT LIGHTS		2	
628		FIXED RESISTOR (20 OHMS)	SIEMENS	3	



The ALASKA RAILROAD CORPORATION

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

LAT: 63.736 DOT 868350S DENALI PARK RD

LONG: -148.915 MP 348.20

RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM

DRAWN: *SMI* DWG NO. 868350S

DATE: 07-11-19

REVISIONS

AS DESIGNED-0.00 07-11-19
 NEW KING BUNGALOW
 INSTALLTION
 DES: SMI/KDF CHK: SMI/DAD

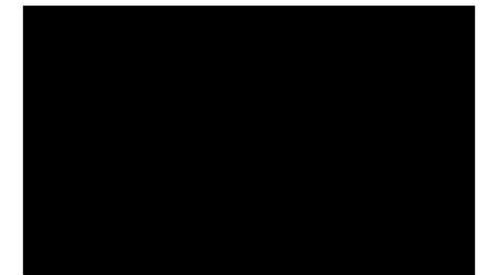
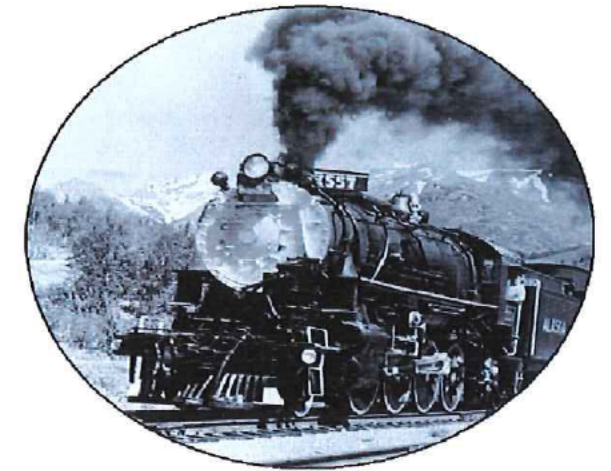
ALASKA RAILROAD CORPORATION



DENALI PARK RD

M.P. 348.20

DOT 868350S



LEGEND:

- △ EQUALIZER
- ∠ LINE ARRESTER
- Ⓡ 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

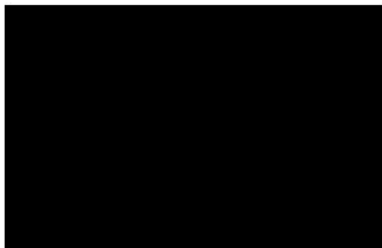
COLORED PLANS

REVISIONS

AS DESIGNED-0.00 07-11-19
 NEW XING BUNGALOW
 INSTALLTION
 DES: SMI/KDF CHK: SMI/DAD

<i>The ALASKA RAILROAD CORPORATION</i>		P.O. BOX 107500 , ANCHORAGE , ALASKA 99510-7500	
SIGNAL ENGINEERING		DOT 868350S	DENALI PARK RD
LAT: 63.736			MP 348.20
LONG: -148.915		RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM	
DRAWN: SMI	DWG NO. 868350S	0	SHEET OF 22
DATE: 07-11-19			

DRAWING NO.	DESCRIPTION	REVISION DATE							
868350S-00	TITLE SHEET								
868350S-01	INDEX								
868350S-02	CROSSING LAYOUT								
868350S-03	GCP 5000 LAYOUT								
868350S-04	GCP 5000 PROGRAMMING								
868350S-05	GCP 5000 TRACK 1, 2 TRACK & CPU BOARDS								
868350S-06	GCP 5000 SSCC-1, SSCC-2, ILOD-1 & ILOD-2 CIRCUITS								
868350S-07	LIGHTING SURGE PANELS DETAIL - 91170-1 & 91170-2								
868350S-08	XING GATES #1 & #2 MECHANISM WIRING								
868350S-09	XING GATES 1, 2 & ADVANCED SIGNAL LIGHTING CIRCUITS								
868350S-10	SEAR III EVENT RECORDER & GROUND FAULT TESTER								
868350S-11	SEAR III PROGRAMMING								
868350S-12	BLANK SHEET FOR FUTURE USE								
868350S-13	BLANK SHEET FOR FUTURE USE								
868350S-14	MB12 & XB14 BATTERY CIRCUITS								
868350S-15	BUNGALOW SIDE "D" LAYOUT								
868350S-16	BUNGALOW SIDE "A" LAYOUT								
868350S-17	BUNGALOW SIDE "C" LAYOUT								
868350S-18	RACK 1 LAYOUT								
868350S-19	UNDERGROUND CABLE LAYOUT								
868350S-20	BILL OF MATERIALS								
868350S-21	BILL OF MATERIALS								
868350S-22	BILL OF MATERIALS								



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

LAT: 63.736 DOT 868350S DENALI PARK RD
 LONG: -148.915 MP 348.20
 RAILROAD-HIGHWAY GRADE CROSSING WARNING SYSTEM

DRAWN: *SMI* DWG NO. 868350S
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