

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

Petition for permission to make a major change in crossing protection, or to install new protection under 92 Illinois Administrative Code 1535.400 (d).

Date: October 19, 2016

To the Illinois Commerce Commission:

The petitioner Norfolk Southern Railway Company shows

- (1) That it is a railroad company operating a line of railroad in the State of Illinois.
- (2) That petitioner proposes and hereby makes application for authority to make a major change in crossing protection, or to install new protection, under 92 Illinois Administrative Code 1535.400 (d) adopted by this Commission.
- (3) That the location of the crossing, the nature of protection now established and proposed to be established, and other pertinent facts in connection therewith, are set forth in the statement attached to and forming part of this petition.
- (4) That petitioner's reasons and purpose, with reference to its said proposal are

Installation of Grade Crossing Warning Devices requested by Illinois Commerce Commission
at: 680E/TR-84E, in Ryan, IL, DOT 479884K, MP. D-313.55. Case: T16-0058
File No.: CX1112031 Project No.: 04.1112

- (5) That the facts set forth in this petition and in the statement and plans or plats attached thereto, are, all of them, true and correct to the best of petitioner's knowledge and belief.

WHEREFORE, the petitioner prays that the Commission will, if deemed desirable by the Commission, set the aforesaid matter for hearing, and that the Commission enter an order or adopt a resolution consenting to and granting authority for the making of the said proposed changes in or additions to crossing protection.

Norfolk Southern Railway Company
 By 
S.J. Klinger, Administrator
Grade Crossing Program
(404) 529-1234

Thomas W. Ambler
 (Attorney for Petitioner)

Norfolk Southern Corporation
Three Commercial Place
Norfolk, VA 23510-2191
 (Attorney's Address)

Statement, attached to and part of an application for permission to make a major change in crossing protection or to install new protection, under 92 Illinois Administrative Code 1535.400(d).

1. Name of Railroad Company Norfolk Southern Railway Company
2. Crossing Number 479884K
3. Village or City Ryan
4. Name of Street or Highway 680E/TR-84A
5. Public Agency Maintaining Highway Vance Township
6. Protection now established: (Give full description. Indicate the hours of any manual protection.)
Passive Warning Devices (Crossbucks)
7. Protection desired: (Give details)
Install Active grade crossing warning devices including LED flashing lights with gates and bell controlled by constant existing warning time detection equipment.
8. Number of main tracks One Other tracks None
9. Number of passenger movements:
6 a.m. to 6 p.m. None 6 p.m. to 6 a.m. None
10. Number of freight train movements:
6 a.m. to 6 p.m. 21 6 p.m. to 6 a.m. 10
11. Approximate number of switch movements:
6 a.m. to 6 p.m. One 6 p.m. to 6 a.m. None
12. Maximum speed of trains at crossing on each track in each direction:
Track 1 N/E Bound 60 mph S/W Bound 60 mph
Track 2 N/E Bound N/A mph S/W Bound N/A mph
Track 3 N/E Bound N/A mph S/W Bound N/A mph
13. Passenger platforms served by tracks within the limits of track circuits, if any None

14. Where automatic signals or gates are proposed, approximate number of train or engine movements daily which would cause false indications or operation:

None

15. Nature and approximate amount of street or highway traffic over crossing:

50 AADT

16. In addition to the information listed hereinbefore in Form 3, attach a track plan or plat of the proposed crossing. This plan should show:

- (a) Width and surface of highway.
- (b) Highway intersections (including private driveways to be so indicated) and location of established highway signs or signals within 100 feet of crossing.
- (c) Location of tracks, switches and other railroad facilities such as block signals, etc. within limits of track circuits, present and/or proposed.
- (d) Where automatic protection is proposed, show proposed location of signals (sidelights, cantilevers, etc., if any).
- (e) Show the length of each operation track section within the control limits of the crossing protection and its function.

ADDITIONAL INFORMATION

Drawings attached for question no. 16

VERIFICATION

I, **S. J. Klinger**, first being duly sworn upon oath depose and say that I am
Administrator, Grade Crossing Program, of **Norfolk Southern Railway Company**, a
Virginia corporation; that I have read the above and foregoing petition by me subscribed and know the
contents thereof; that said contents are true in substance and in fact, except as to those matters stated upon
information and belief, and as to those, I believe same to be true.



Administrator, Grade Crossing Program

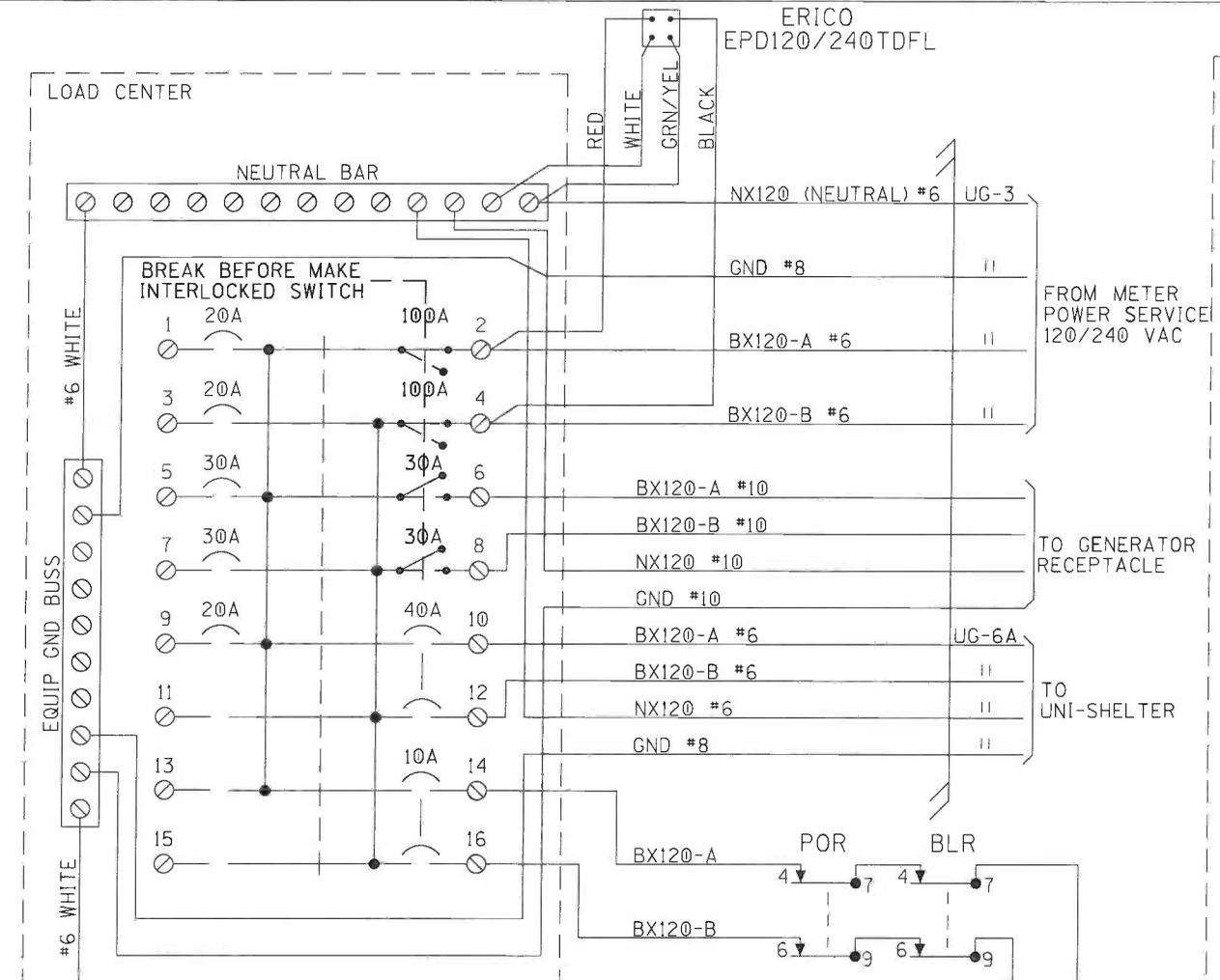
SH. NO.	CONTENTS
NX1	INDEX SHEET
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2	PROFILE
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5	B12 & B16 CHARGERS & BATTERIES
6	4000 GCP 2-TK CHASSIS & MODULE LAYOUT
7	4000 GCP PROGRAMMING SETUP
8	4000 GCP PROGRAMMING SETUP
9	CONNECTORS FOR TRACK MODULES
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15	SIGNAL "B" S60 GATE & FLASHER CIRCUITS
16	BACKBOARD 1A & 1B
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INDEX SHEET

DESIGNED BY:		
TAH 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.	M.P.: D-313.55
DRAWN BY:	FAIRMOUNT, IL	
RSD 09-15-16	FLGS AT CR 680E	
CHECKED BY:	LAFAYETTE	
JAR 09-15-16	CADD or DWG. No.	FILE No. R- LFDS31355.NX1
IN SERVICE:	- -	SHEET No. 1 of 1

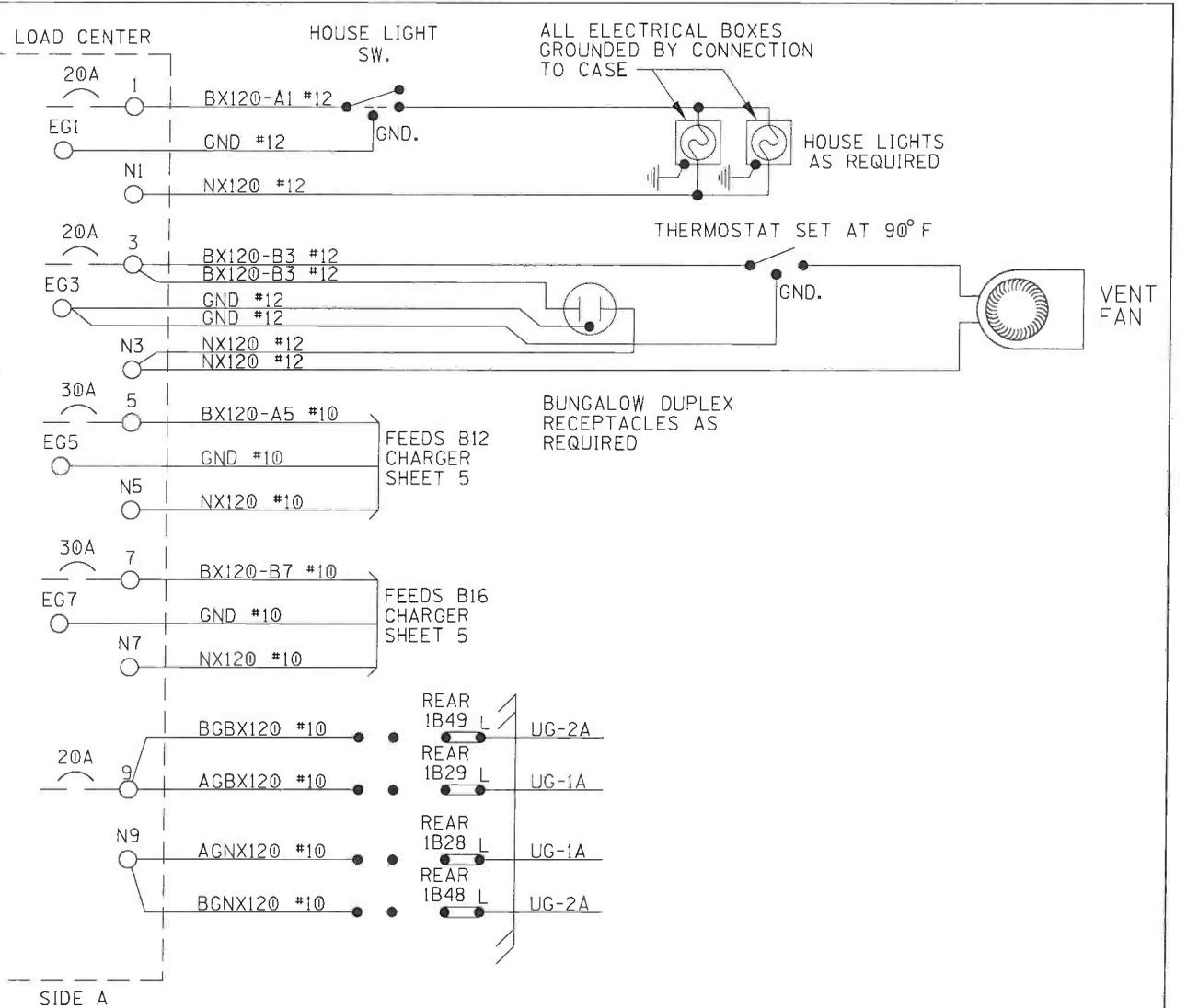
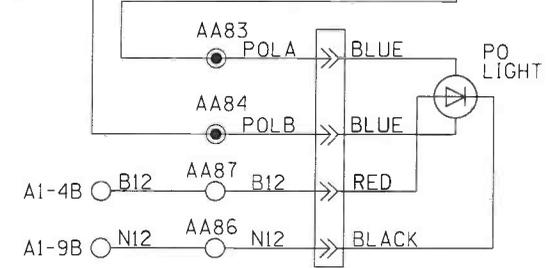
REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.



NOTE: ALL AC WIRING TO THE LOAD CENTER IS TO BE IN METALLIC CONDUIT WITH NO EXPOSED TERMINALS. ALL AC 120V AND 240V EQUIPMENT IS TO BE PROPERLY GROUNDED.

- SQUARE "D" PART NUMBERS:
 LOAD CENTER — Q0116L125G
 10A 1P CIR BKR — Q0110
 10A 2P CIR BKR — Q0210
 15A 2P CIR BKR — Q0215
 20A 1P CIR BKR — Q0120
 30A 1P CIR BKR — Q0130
 30A 2P CIR BKR — Q0230
 40A 2P CIR BKR — Q0240
 100A 2P CIR BKR — Q02100
 MECH INTERLOCK — PK4DTIM4LA



NOTE: ALL WIRING TO BE #16AWG UNLESS NOTED OTHERWISE.

GENERATOR RECEPTACLE: MALE CONNECTOR - NEMA L1430-F1

LOAD CENTER

DESIGNED BY:	NS NORFOLK SOUTHERN	
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DRAWN BY:	M.P.: D-313.55	
RSD 09-15-16	FAIRMOUNT, IL FLGS AT CR 680E	
CHECKED BY:	LAFAYETTE	
JAR 09-15-16	FILE No. R-	
IN SERVICE:	SHEET 4 of 22	
CADD or DWG. No.	LFDS31355.04	

REVISION INITIALS

PROPERTY NORFOLK SOUTHERN RAILWAY CO.

Program Report

Location and SIN

DOT Number: 479884K
 Milepost Number: D-313.55
 Site Name: CR 680E

SIN: 755053509316

MCF and Template Selection

MCF Name: GCP-T6X-02-1.mcf
 MCF Revision: 021
 MCFCRC: 6076E435

Template = 1A:6 Trk Bi

Check Numbers

Office Check No. (DT 4.6.0): 776CA8F8
 Office Check Number: 776CA8F8
 Config. Check Number: 5F58BF46
 (Based on MCF Revision 021)

Program

BASIC: module configuration
 Track 1 Slot = Track
 Track 2/RIO 1 Slot = Not Used
 Track 3 Slot = Not Used
 Track 4 Slot = Not Used
 Track 5/RIO 2 Slot = Not Used
 Track 6/RIO 3 Slot = Not Used
 SSCC-1 Slot = SSCC31
 SSCC-2 Slot = SSCC31
 SEAR Used = Yes

BASIC: MS/GCP operation
 Track 1: MS/GCP Operation = Yes

BASIC: Island operation
 Track 1: Island Used = Internal

BASIC: preemption
 Preempt Logic = No

BASIC: radio Dax links
 Radio DAX link A Used = No
 Radio DAX link B Used = No

BASIC: VitalComms links
 VitalComms link 1 Used = No
 VitalComms link 2 Used = No

PREDICTORS: track 1
 Track 1: Prime Used = Yes
 Track 1: Dax A Used = No
 Track 1: Dax B Used = No
 Track 1: Dax C Used = No
 Track 1: Dax D Used = No
 Track 1: Dax E Used = No
 Track 1: Dax F Used = No
 Track 1: Dax G Used = No

GCP: track 1
 Track 1: GCP Freq Category = Standard
 Track 1: GCP Frequency = 114 Hz
 Track 1: Approach Distance = 3087 ft
 Track 1: Uni/Bi/Sim-Bidirnl = Bidirnl
 Track 1: GCP Transmit Level = High
 Track 1: Island Connection = Isl1
 Track 1: Island Distance = 125 ft
 Track 1: Computed Distance = 9999 ft
 Track 1: Linearization Steps = 100

GCP: track 1 enhanced det
 Track 1: Inbound PS Sensitivity = Off
 Track 1: Speed Limiting Used = Yes
 Track 1: Outbound False Act Lvl = Normal
 Track 1: Outbound PS Timer = 20 sec
 Track 1: Trailing Switch Logic = On
 Track 1: Post Joint Detn Time = 15 sec
 Track 1: Adv Appr Predn = No
 Track 1: CancelPickup Delay = This Isl

GCP: track 1 prime
 Track 1: Prime Warning Time = 30 sec
 Track 1: Prime Offset Distance = 0 ft
 Track 1: Switch MS EZ Level = 10
 Track 1: Prime MS/GCP Mode = Pred
 Track 1: Prime Pickup Delay = 15 sec
 Track 1: Prime UAX = IP
 Track 1: Prime UAX Pickup = 5 sec

GCP: track 1 pos start
 Track 1: Positive Start = Off
 Track 1: Sudden Shnt Det Used = No
 Track 1: Low EZ Detection Used = No

GCP: track 1 MS Control
 Track 1: MS/GCP Ctrl:IP Used = No
 Track 1: MS Sensitivity Level = 0
 Track 1: Compensation Level = 1300
 Track 1: Warn Time-Ballast Comp = High
 Track 1: Low EX Adjustment = 39
 Track 1: Bidirnl Dax Passthru = No
 Track 1: False Act on Train Stop = No
 Track 1: EX Limiting Used = Yes
 Track 1: EZ Correction Used = Yes

ISLAND: track 1
 Track 1: Isl Frequency = 15.2 kHz
 Track 1: Pickup Delay (2s +) = 0 sec
 Track 1: Isl Enable IP Used = No

AND: track Anding
 AND 1 XR Used = Yes
 AND 2 Used = No
 AND 3 Used = No
 AND 4 Used = No
 AND 5 Used = No
 AND 6 Used = No
 AND 7 Used = No
 AND 8 Used = No

AND: AND 1 XR
 AND 1 XR Track 1 = Prime
 AND 1 Enable Used = Yes
 And 1 Enable Pickup = 5 sec
 AND 1 Enable Drop = 0 sec
 AND 1 Wrap Used = No

ADVANCED: MS restart
 MS/GCP Restart Used = No

ADVANCED: out of service
 OOS Control = Display+OOS IPs
 OOS Timeout = Yes
 OOS Timeout = 1 hrs

ADVANCED: out of service 2
 T1 OOS Control = OOS Input 1

ADVANCED: track wrap circuits
 Wrap LOS Timer = 5 sec
 Track 1 Wrap Used = No

ADVANCED: trk 1 overrides
 Track 1: AllPredictors Override Used = No

ADVANCED: OR logic
 OR 1 Used = No
 OR 2 Used = No
 OR 3 Used = No
 OR 4 Used = No

ADVANCED: internalI/O 1
 Pass Thrus = No
 Int.1 Sets = Not Used
 Int.1 Set by = Not Used
 Int.2 Sets = Not Used
 Int.2 Set by = Not Used
 Int.3 Sets = Not Used
 Int.3 Set by = Not Used
 Int.4 Sets = Not Used
 Int.4 Set by = Not Used

ADVANCED: internalI/O 2
 Int.5 Sets = Not Used
 Int.5 Set by = Not Used
 Int.6 Sets = Not Used
 Int.6 Set by = Not Used
 Int.7 Sets = Not Used
 Int.7 Set by = Not Used
 Int.8 Sets = Not Used
 Int.8 Set by = Not Used

ADVANCED: internalI/O 3
 Int.9 Sets = Not Used
 Int.9 Set by = Not Used
 Int.10 Sets = Not Used
 Int.10 Set by = Not Used
 Int.11 Sets = Not Used
 Int.11 Set by = Not Used
 Int.12 Sets = Not Used
 Int.12 Set by = Not Used

ADVANCED: internalI/O 4
 Int.13 Sets = Not Used
 Int.13 Set by = Not Used
 Int.14 Sets = Not Used
 Int.14 Set by = Not Used
 Int.15 Sets = Not Used
 Int.15 Set by = Not Used
 Int.16 Sets = Not Used
 Int.16 Set by = Not Used

4000 GCP PROGRAMMING SETUP

DESIGNED BY:		
TAH 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.	M.P.: D-313.55
DRAWN BY:	FAIRMOUNT, IL FLGS AT CR 680E	
RSD 09-15-16		
CHECKED BY:		
JAR 09-15-16	LAFAYETTE	FILE R-
IN SERVICE:	CADD or DWG. No. LFDS31355.07	SHEET 7 of 22 No.

REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

ADVANCED: site options
 Daylight Savings = On
 Units = Standard
 Maint CallRpt IP Used = No
 Emergency Activate IP = No
 EZ/EX Logging = Change
 EZ/EX Point Change = 3

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

SSCC: 1
 SSCC-1 Activation = AND 1 XR
 SSCC-1 Gate Delay = 6 sec
 SSCC-1 Number of GPs = 1
 SSCC-1 Number of GDs = 2
 SSCC 1: Flash Rate = 40
 SSCC 1: Low Battery Detection = No
 SSCC 1: Flash Sync = master
 SSCC 1: Invert Gate Output = No
 SSCC 1: Lamp Neutral Test = Off
 Aux-1 Xng Ctrl Used = No

SSCC: 2
 SSCC-2 Activation = AND 1 XR
 SSCC-2 Gate Delay = 6 sec
 SSCC-2 Number of GPs = 0
 SSCC-2 Number of GDs = 0
 SSCC 2: Flash Rate = 40
 SSCC 2: Low Battery Detection = No
 SSCC 2: Flash Sync = slave
 SSCC 2: Invert Gate Output = No
 SSCC 2: Lamp Neutral Test = Off
 Aux-2 Xng Ctrl Used = No

OUTPUT: assignment page 1
 OUT 1.1 = Not Used
 OUT 1.2 = Not Used

INPUT: assignment page 1
 IN 1.1 = T1 Prime UAX
 IN 1.2 = Not Used

IO: assignment SSCC
 OUT GC 1 = Gate Output 1
 OUT GC 2 = Gate Output 2
 IN 7.1 = Not Used
 IN 7.2 = GD 1.2
 IN 7.3 = AND 1 XR Enable
 IN 7.4 = GD 1.1
 IN 7.5 = GP 1.1
 IN 8.1 = Out Of Service IP 1
 IN 8.2 = Not Used
 IN 8.3 = Not Used
 IN 8.4 = Not Used
 IN 8.5 = Not Used

SEAR
 SEAR Subnode = 3
 DI 1 = Not Used
 DI 2 = Not Used
 Rly 1 = General
 Rly 2 = Not Used

SEAR: inputs
 SP 2.1 = POK 1
 SP 3.1 = Not Used
 SP 4.1 = Not Used
 SP 5.1 = Not Used
 SP 6.1 = Not Used

SEAR: slot 1-4 inputs
 IN 1.2 = Not Used
 IN 2.1 = Not Used
 IN 2.2 = Not Used
 IN 3.1 = Not Used
 IN 3.2 = Not Used
 IN 4.1 = Not Used
 IN 4.2 = Not Used

SEAR: inputs slot 5
 IN 5.1 = Not Used
 IN 5.2 = Not Used

SEAR: inputs slot 6
 IN 6.1 = Not Used
 IN 6.2 = Not Used

SEAR: slot 7-8 inputs
 IN 7.1 = Not Used
 IN 8.2 = Not Used
 IN 8.3 = Not Used
 IN 8.4 = Not Used
 IN 8.5 = Not Used

SITE: programming
 Radio Subnode = 1
 Field Password = Off
 Low Battery Enabled = Off

Configuration Package File

 Filename: LFDS31355.pac

4000 GCP PROGRAMMING SETUP

DESIGNED BY:	TAH 09-15-16	
DRAWN BY:	RSD 09-15-16	
CHECKED BY:	JAR 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. M.P.: D-313.55
IN SERVICE:	- -	FAIRMOUNT, IL FLGS AT CR 680E
		LAFAYETTE FILE No. R-
		CADD or DWG. No. LFDS31355.08 SHEET 8 of 22

REVISION INITIALS																			
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PROPERTY
 NORFOLK SOUTHERN RAILWAY CO.

SITE SET UP PROCEDURE	
FUNCTION	LED DISPLAY
DATE/TIME	
AUTOMATIC DST ADJUSTMENT	YES
TIME ZONE	EST
SITE NAME	CR 680E
MILEPOST	D-313.55
DOT #	479884K
TESTER TYPE	CROSSING
DATE FORMAT	MM-DD-YYYY
TEMP FORMAT	FAHRENHEIT
INDICATE HOLD (SEC)	0
INDICATE REFRESH (SEC)	60
SITE ATCS	7.550.535.093.03.01
SITE TYPE	NO COMMUNICATION
** OFFICE ATCS ADDRESS	2.550.01.9100
** PRIMARY HOP ADDR	7.RRR.LLL.GGG.XX.XX
** BACKUP HOP ADDR 1	7.RRR.LLL.GGG.XX.XX
** BACKUP HOP ADDR 2	7.RRR.LLL.GGG.XX.XX
** POLL ID	1
** MODE	GEN/ATCS
** WAMS XID	DISABLED
** OFFICE COMM DEVICE	MCM (ECHELON)
** RADIO ATCS ADDR	7.RRR.LLL.GGG.01.01
** PHONE #	(OFFICE NUMBER)
** INIT STRING	
** FIELD COMM DEVICE	NONE
*** USER PORT BAUD	57600
*** USER PORT DATA BITS	8
*** USER PORT PARITY	NONE
*** USER PORT STOP BITS	1
*** USER PORT FLOW CONTROL	NONE
*** AUX PORT BAUD	9600
*** AUX PORT DATA BITS	8
*** AUX PORT PARITY	NONE
*** AUX PORT STOP BITS	1
*** AUX PORT FLOW CONTROL	NONE

CONTROL SYSTEM CONFIGURATION MENU QUESTIONS	
THE QUESTION	SELECT FROM MENU OPTION
RESET NAMES AND MODULES?	YES
RAILROAD NUMBER	550
CROSSING CONFIGURATION	NORMAL
AND 1 USED AS XR?	YES
AND 2 USED AS XR?	NO
AND 3 USED AS XR?	NO
AND 4 USED AS XR?	NO
AND 5 USED AS XR?	NO
AND 6 USED AS XR?	NO
AND 7 USED AS XR?	NO
AND 8 USED AS XR?	NO
* XR CONTROLLED BY FOREIGN RR	
ENTRANCE GATES	2
85% VOLTAGE RELAY OUT	YES
* GATES CONTROLLED BY FOREIGN RR	
BATTERY BANKS	2
BATTERY MON USED	NO
PREEMPTION	NO
INTERNAL CROSSING CONTROLLERS	2
EXTERNAL CROSSING CONTROLLERS	0
VHF COMMUNICATOR	YES
DTMF ACTIVATION	YES
**** ACTIVATION CODE	884
ACTIVATION TIMEOUT (SECONDS)	60
ILOD MODULES	0
***** ANY LED BULBS USED	
VHF VOICE CHANNEL	2
VHF DATA CHANNEL	2
USE CELL MODEM NON-CRITICAL FEATURE	NO

TO CONFIGURE SEARIII PRESS SITE SETUP KEY.
USE ARROW KEYS TO MAKE SELECTION,
PRESS ENTER AFTER SELECTION HAS BEEN MADE.

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
GCP4K ATCS SUBNODE	16

NOTES:

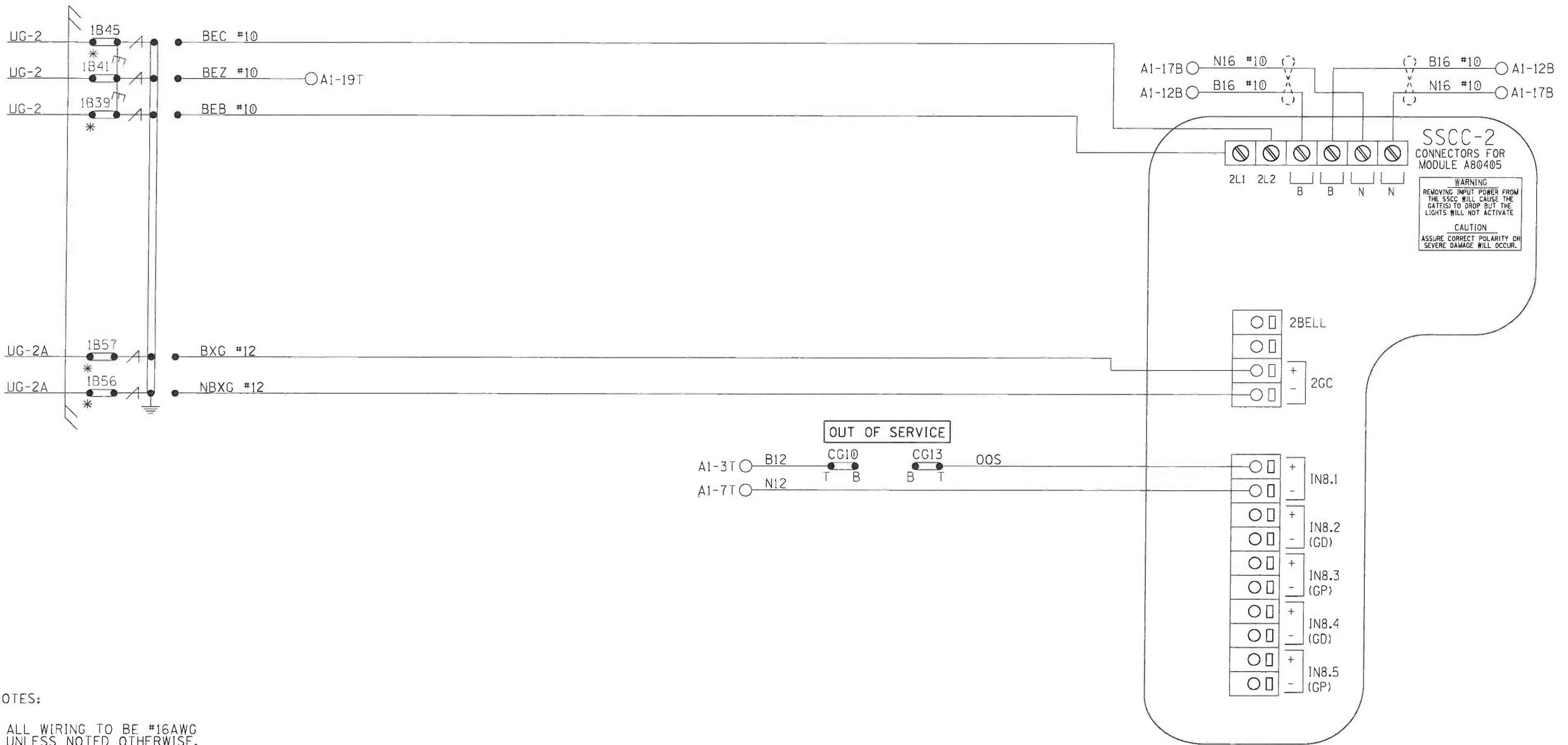
- * = DISPLAYED IF CROSSING CONFIGURATION IS SPLIT GATE.
- ** = IF SITE TYPE = NO COMMUNICATION, THEN THESE OPTIONS ARE NOT DISPLAYED.
- *** = THESE SETTINGS SHOULD BE LEFT AT THE DEFAULT SETTING.
- **** = USE LAST 3 NUMBERS FROM DOT NUMBER.
- ***** = IF ILOD MODULE >0.

SEAR III PROGRAMMING SETUP

DESIGNED BY:		
TAH 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.	M.P.: D-313.55
DRAWN BY:	FAIRMOUNT, IL FLGS AT CR 680E	
RSD 09-15-16	LAFAYETTE	
CHECKED BY:	FILE R-	
JAR 09-15-16	SHEET 11 of 22	
IN SERVICE:	CADD or DWG. No. LFDS31355.11	

REVISION
INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.



NOTES:

ALL WIRING TO BE #16AWG
UNLESS NOTED OTHERWISE.

* = TEST LINKS MUST BE OPENED TEMPORARILY FOR NEW
COLD START OF NEW OR REPLACEMENT SSCC MODULE
AND CAN ONLY BE CLOSED IN SEQUENCE WITH MFR.
INSTRUCTIONS: SECTION 8 OF THE GCP 4000 REFERENCE MANUAL.

⊘ = TWIST

SSCC#2 MODULE HOOK-UP

DESIGNED BY:	NORFOLK SOUTHERN	
TAH 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. M.P.: D-313.55	
DRAWN BY:	FAIRMOUNT, IL	
RSD 09-15-16	FLGS AT CR 680E	
CHECKED BY:	LAFAYETTE	
JAR 09-15-16	FILE R-	
IN SERVICE:	CADD or DWG. No. LFDS31355.13	SHEET 13 of 22

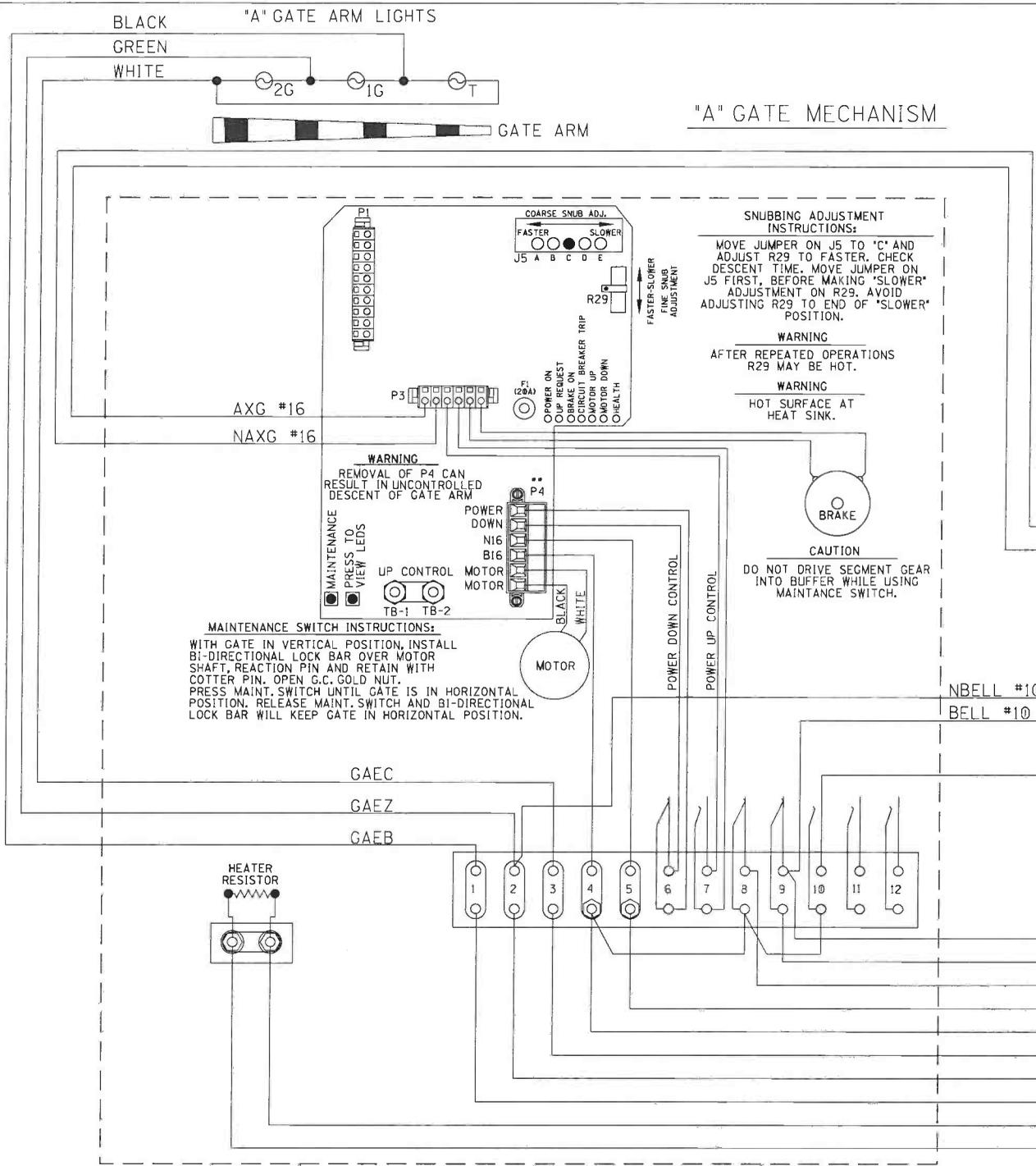
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INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

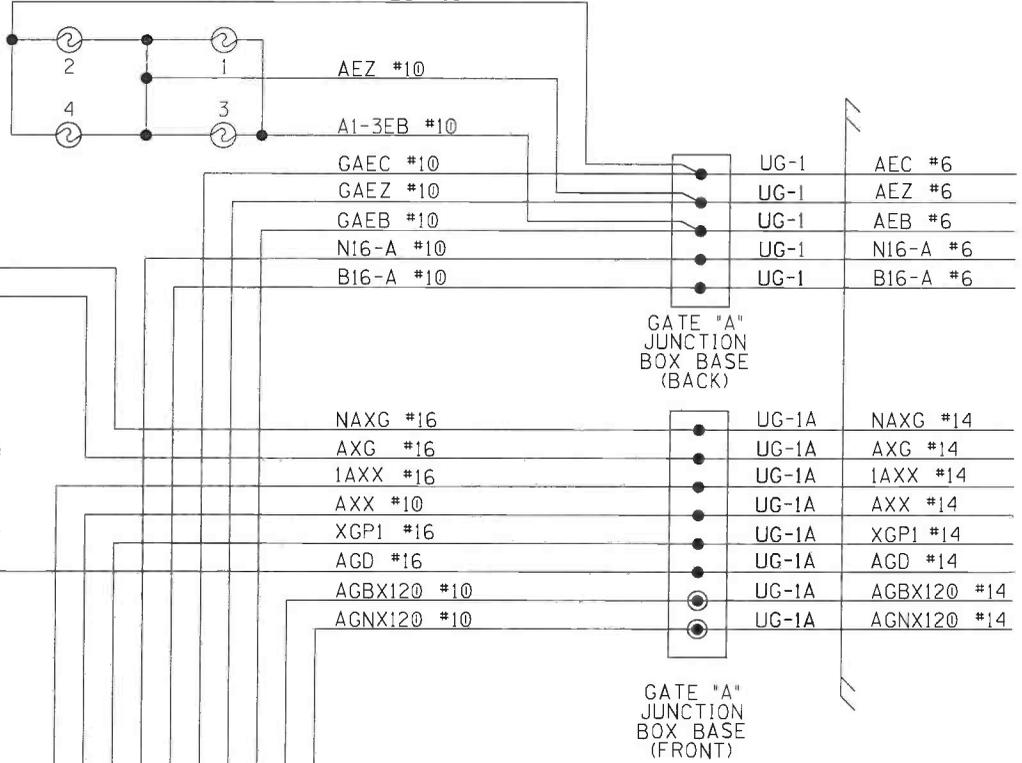
SAFETRAN MODEL "S60" GATE

CONTACT SPACE	CONTACT CLOSED AT	FUNCTION OF CONTACT
6	70° - 90°	POWER DOWN CONTROL
7	0° - 89°	POWER UP CONTROL
8	83° - 90°	FLASHING LGT. CONTROL
9	5° - 90°	BELL CONTROL
10	0° - 5°	GATE DOWN INDICATION
11		SPARE
12		SPARE

"A" GATE MECHANISM



"A" FLASHING LIGHTS



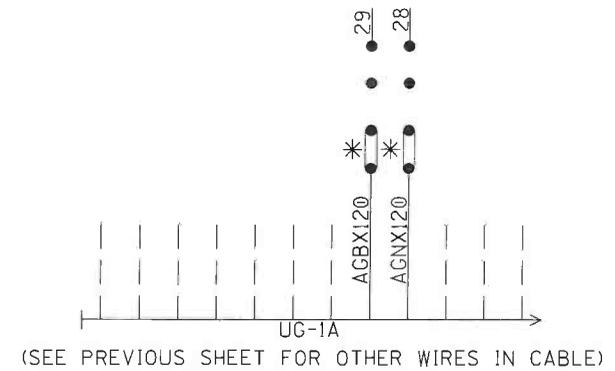
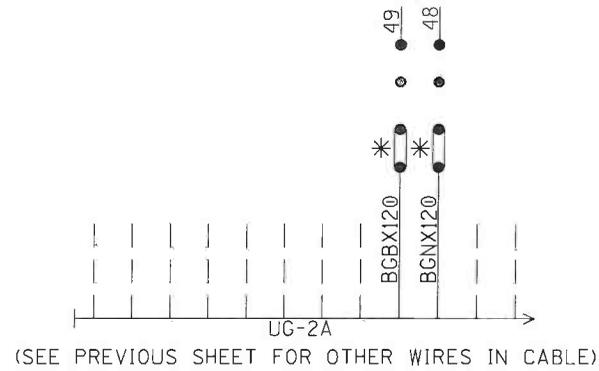
SIGNAL "A" S60 GATE & FLASHER CIRCUITS

DESIGNED BY:	NORFOLK SOUTHERN	
TAH 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.	M.P.: D-313.55
DRAWN BY:	FAIRMOUNT, IL FLGS AT CR 680E	
RSD 09-15-16	LAFAYETTE	FILE No. R-
CHECKED BY:		SHEET 14 of 22
JAR 09-15-16		
IN SERVICE:	CADD or DWG. No. LFDS31355.14	

REVISION INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

REAR VIEW OF LEFT TWO ROWS TERMINAL BOARD I
"1B"
"1A"



NOTE: ALL 120VAC AND ABOVE WILL BE WIRED TO THE REAR OF FARADAY BACKBOARD. INSULATED NUTS MUST BE USED ON ALL TERMINALS.

* = CLOSED DURING WINTER MONTHS

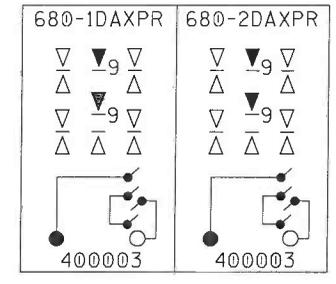
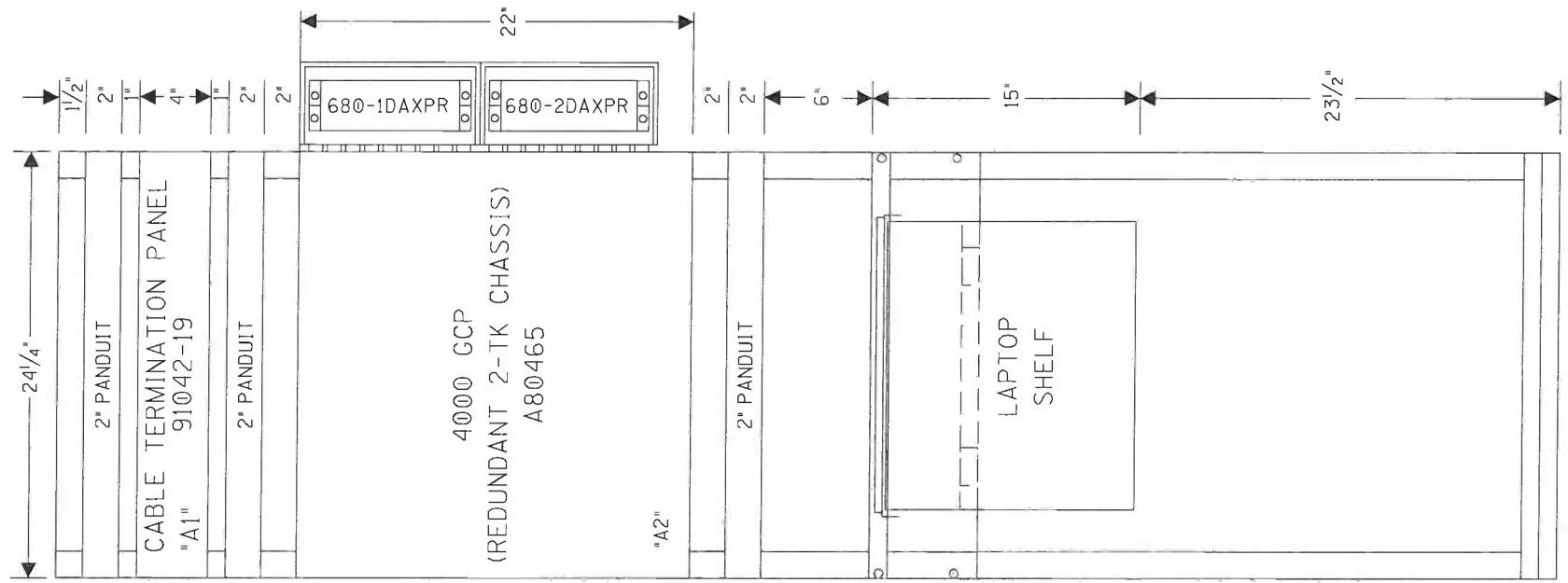
REAR BACKBOARD 1A & 1B

DESIGNED BY:	NORFOLK SOUTHERN	
TAH 09-15-16		
DRAWN BY:	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA. M.P.: D-313.55	
RSD 09-15-16	FAIRMOUNT, IL FLGS AT CR 680E	
CHECKED BY:		
JAR 09-15-16	LAFAYETTE	FILE NO. R-
IN SERVICE:	CADD or DWG. No. LFDS31355.17	SHEET 17 of 22

REVISION INITIALS

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

EQUIPMENT RACK #1
FRONT



SIDE "C"

SAFETRAN, ALSTOM (GRS)
RELAY CROSS REFERENCE LIST

SAFETRAN	ALSTOM (GRS)
400003	A62-308



HOUSE SIDE C LAYOUT &
RACK PLACEMENT

DESIGNED BY:	NORFOLK SOUTHERN	
TAH 09-15-16	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.	M.P.: D-313.55
DRAWN BY:	FAIRMOUNT, IL FLGS AT CR 680E	
RSD 09-15-16	LAFAYETTE	FILE No. R-
CHECKED BY:		SHEET No. 20 of 22
JAR 09-15-16		
IN SERVICE:	CADD or DWG. No. LFDS31355.20	

PROPERTY
NORFOLK SOUTHERN RAILWAY CO.

REVISION
INITIALS

"CA" "CB" "CC" "CD" "CE" "CF" "CG"



CFI
RECPT.

