# **Public Utilities Commission of Ohio**

# Memo

**To:** Docketing Division

**From:** Thomas Persinger, Rail Project Specialist, Rail Division

**Cc:** PUCO Legal Department

**Date:** 7-26-2022

**Re:** PUCO Case No. 22-732-RR-FED- In the Matter of a Request for the Upgrade of Active Warning Devices at the Norfolk Southern Railway Grade Crossing, DOT# 525-100G at N. Maple Street in Preble County, Ohio.

On June 28, 2022, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway (NS) to upgrade lights and gates at N. Maple Street (DOT#525-100G) in Preble County, Ohio. The crossing was surveyed, on August 24, 2017, and was found to warrant the upgrade. The electric utility provider for this crossing is AES Ohio.

The project will be paid with 80% federal funds, 20% by NS, and is actual cost. The plans and estimates for the project in the amount of \$80,403.23 have been approved with \$64,322.58 covered by federal funds. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in twelve months.** Staff requests that the following language be incorporated in the Finding & Order:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- Any ancillary work to make the warning devices function as designed and visible to the roadway user, and
- MUTCD compliance, including minor roadway work if necessary.

### Please serve the following parties of record:

Norfolk Southern Railway Company Kurt Young Public Projects Engineer 650 West Peachtree Street NW BOX 41 Atlanta, GA 30308

Norfolk Southern Railway Company Cayela Wimberly Director Grade Crossing Safety 650 West Peachtree Street NW BOX 41 Atlanta, GA 30308

Eastman & Smith LTD.
Casey Talbott
Attorney for Norfolk Southern
One SeaGate 24th Floor
P.O. Box 10032
Toledo, OH 43699-0032

Ohio Rail Development Commission Allen Bell Manager, Grade Crossing Safety Program 1980 West Broad Street Mail Stop #3140 Columbus, OH 43223

City of Eaton Brad Collins City Manager P.O. Box 27 Eaton, OH 45320

**AES-Ohio** 

# OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: John Williams, Chief, Motor Carrier & Rail Enforcement, PUCO

FROM: Allen Bell, Manager, Safety Section, ORDC

BY: Eric Thompson

**SUBJECT:** PRE-North Maple Street DOT# 525100G PID# 116118

**DATE:** 7/21/2022

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on 8/24/2017. The Public Utilities Commission of Ohio (PUCO) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC accepts the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. ORDC recommends a twelve (12) month construction timeline. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review

Letter Agreement PE Authorization

Plan, Estimate & Material List Construction Authorization

c: Jill Henry, Rail Chief, PUCO ORDC Project Manager (file)



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt. Chair

July 20, 2022

Norfolk Southern Railway Company Mr. Kurt Young Administrator Grade Crossing Program 650 West Peachtree Street, NW Box 41 Atlanta, GA 30308

RE: Preble, North Maple DOT# 525100G PID# 116118

Dear MR. Young:

The plan and estimate dated July 15, 2022, for the referenced project is acceptable. Please note that the railroad must provide ORDC with a plan stamped by a professional engineer licensed in the State of Ohio prior to acceptance and close out of the project. N/S may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$64,322.58; this amount reflects twenty percent (20%) cost share for construction from NS. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon Norfolk Southern accepting the following instructions:

- 1. N/S's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Eric Thompson, ORDC, email Eric.thompson@dot.ohio.gov, and to the Public Utilities Commission of Ohio at <a href="mailto:Jill.henry@puco.ohio.gov">Jill.henry@puco.ohio.gov</a>. N/S's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.
- 2. N/S will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by N/S.
- 3. NS's project foreman will ensure no on-site construction activity will occur prior to the issuance of an Order from the PUCO.
- 4. N/S's project foreman will notify Eric Thompson at 513-520-2687 or Eric.thompson@dot.ohio.gov of any changes in the scope of work, cost overruns, material



- changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 5. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 6. N/S will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 7. N/S will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.
- 8. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

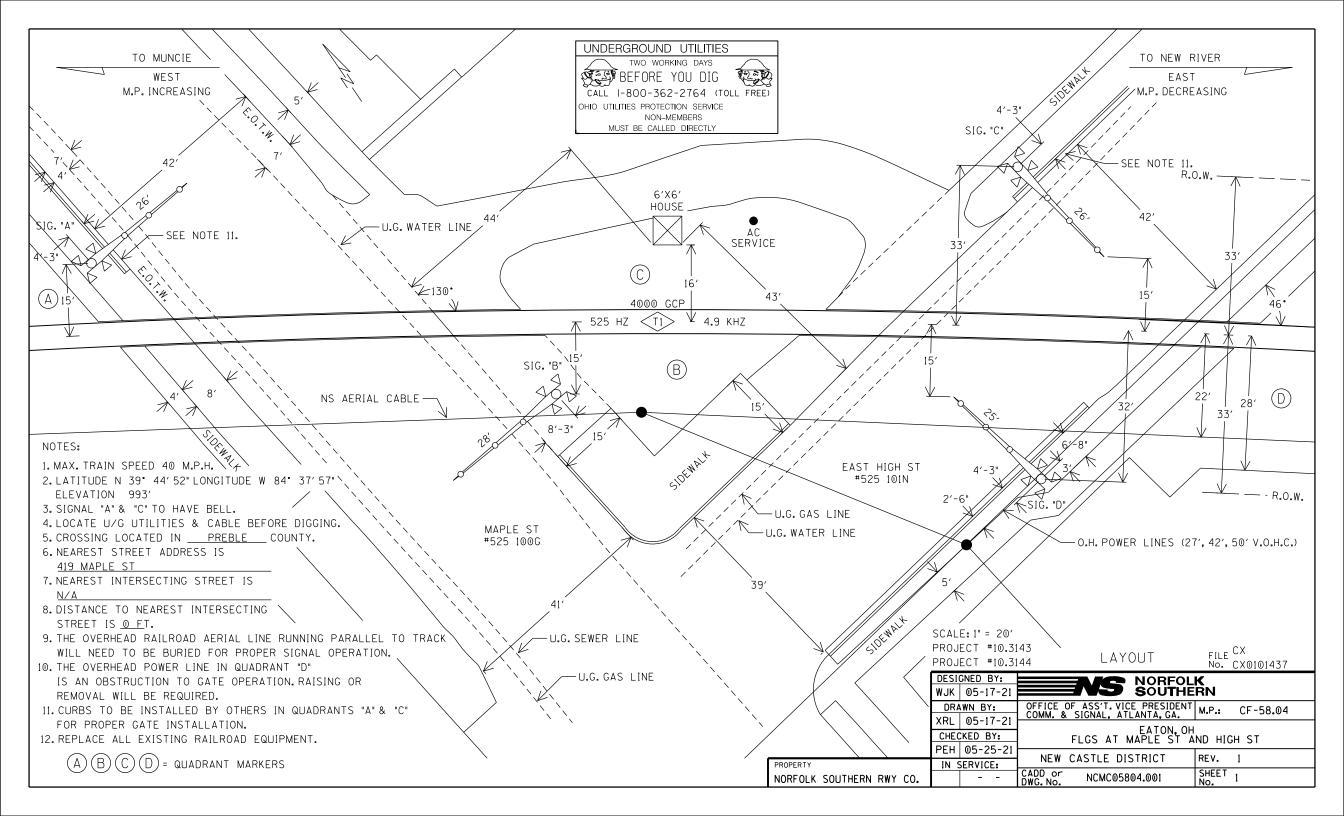
Eric Thompson Project Manager

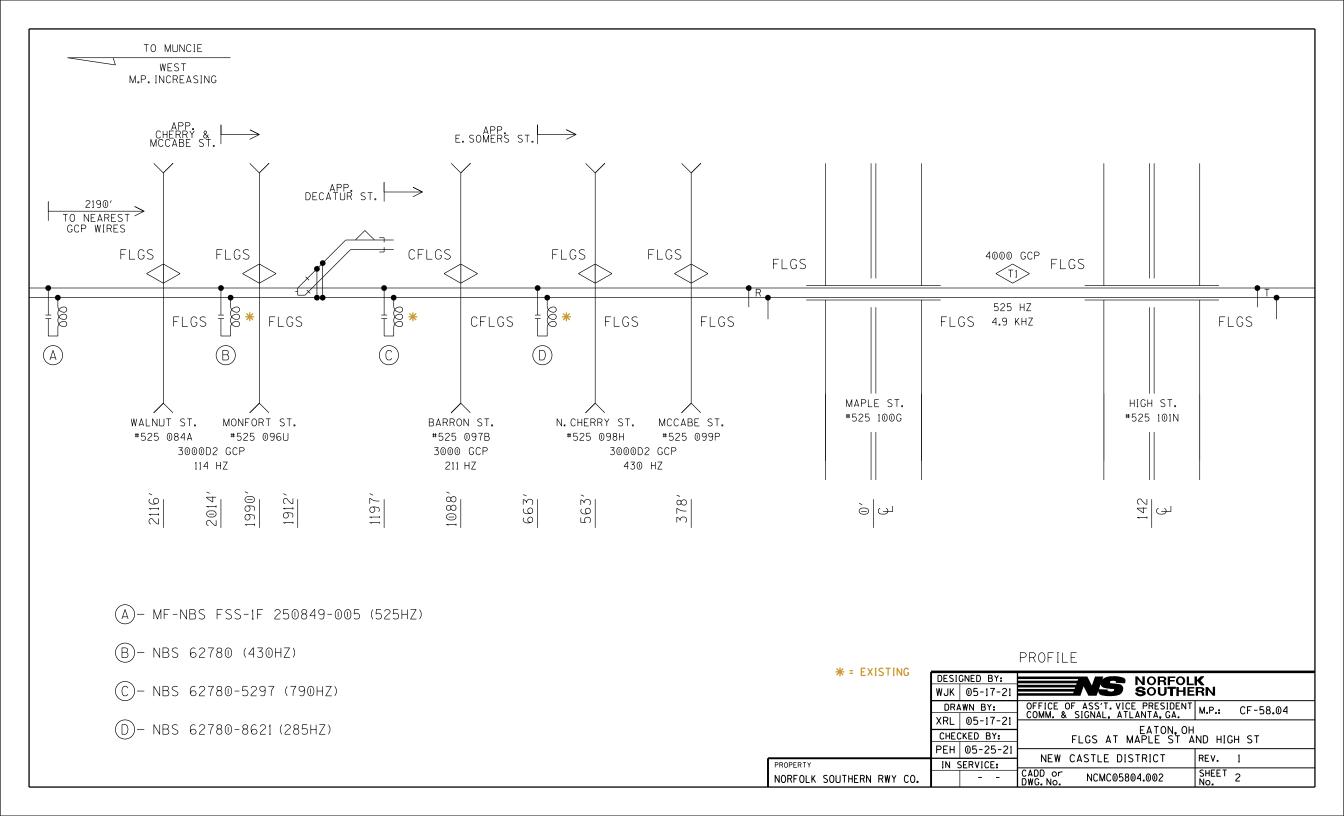
Cric Thompson

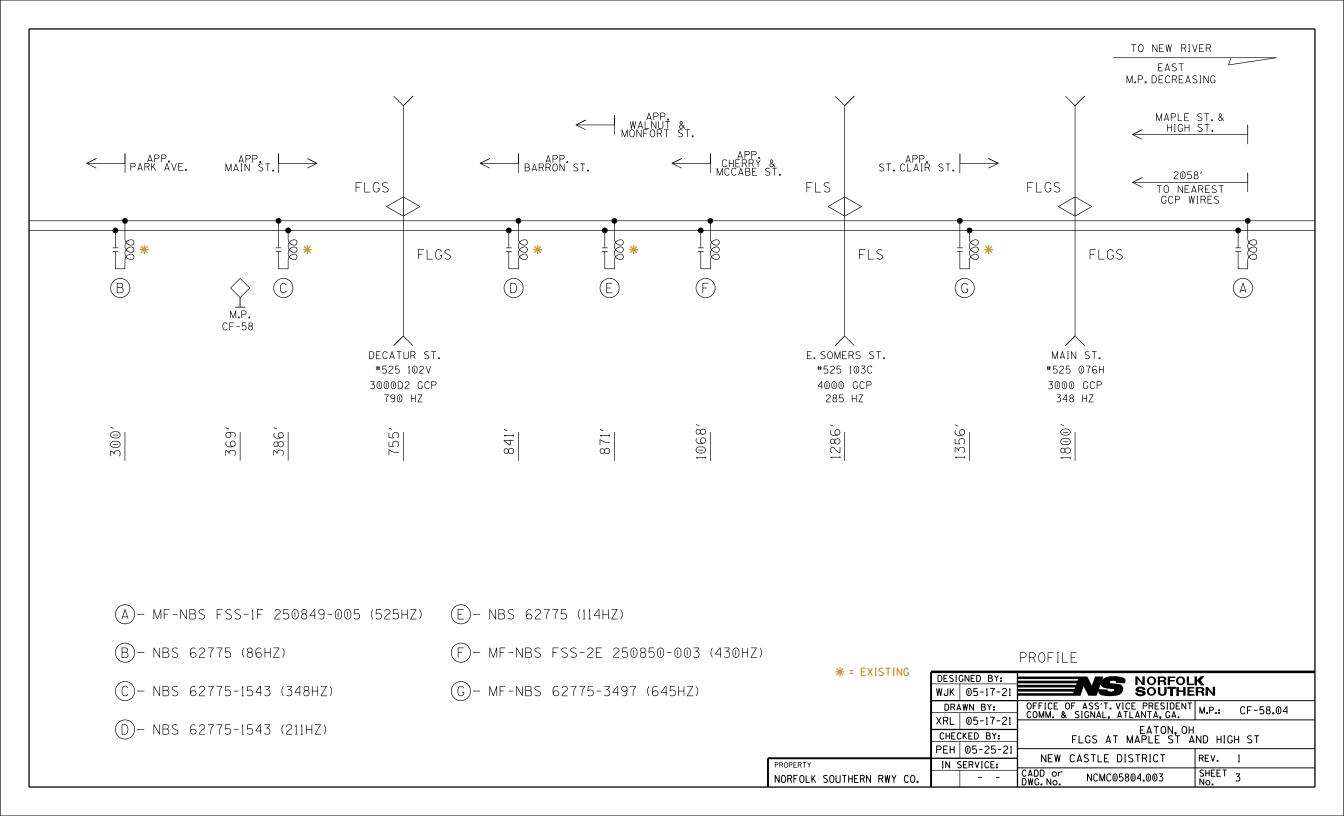
C: John Williams, Director, Transportation Department, PUCO Jill Henry, Rail Chief, PUCO Heather Hamilton, ORDC ORDC (file)

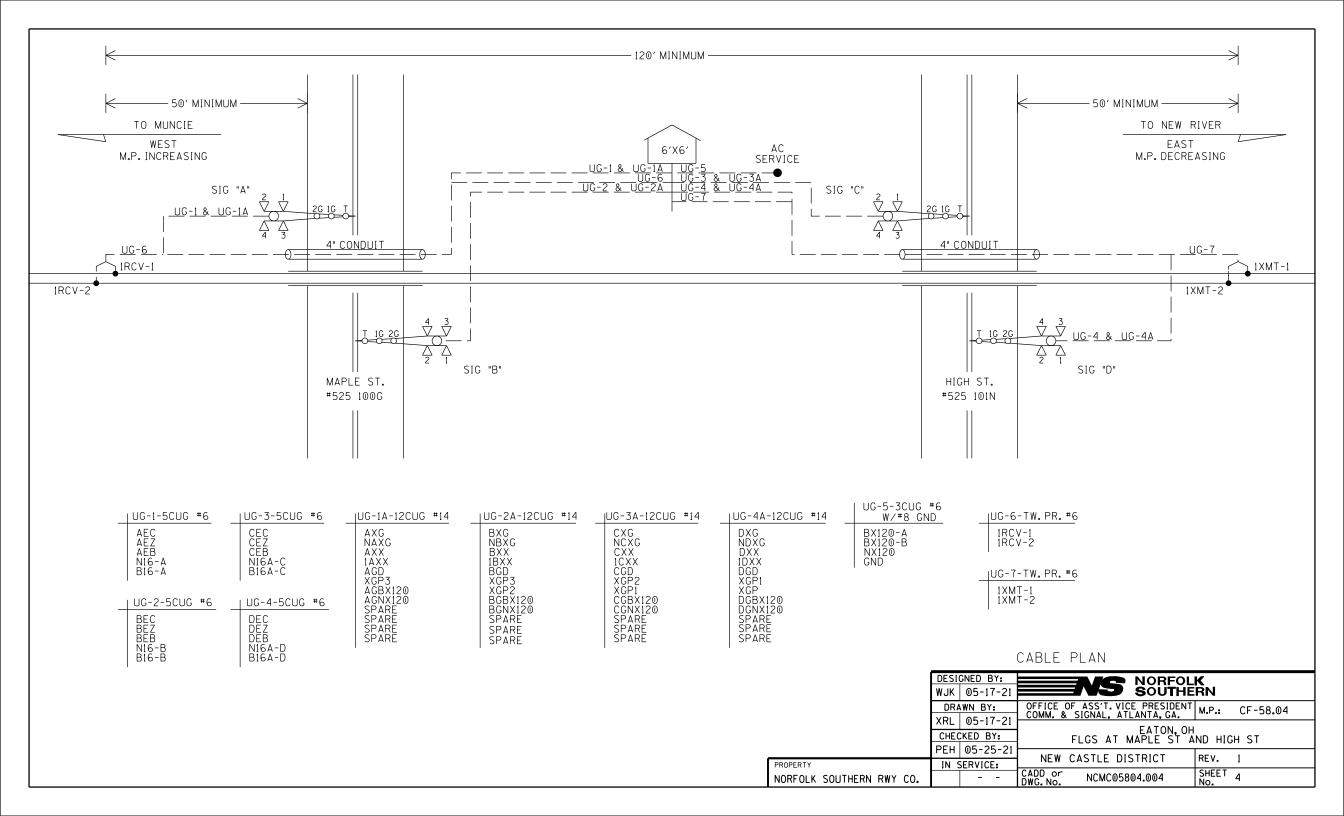
SH. NO.	CONTENTS	REV. NO.
NX1	INDEX SHEET	1
1	LAYOUT	1
2	PROFILE	1
3	PROFILE	
4	CABLE PLAN	1
5	LOAD CENTER	1
6	B12 CHARGER & BATTERY	1
7	B16 & B16A CHARGERS & BATTERIES	1
8	4000 GCP 2-TK CHASSIS & MODULE LAYOUT	1
9	4000 GCP PROGRAMMING SETUP	1
10	4000 GCP PROGRAMMING SETUP	1
11	CONNECTORS FOR TRACK MODULES	1
12	CPU MODULE, SEAR IIi & VHF HOOK-UPS	
13	SEAR III PROGRAMMING SETUP	
14	BACKHAUL EQUIPMENT	
15	SSCC#1 MODULE HOOK-UP	1
16	SSCC#2 MODULE HOOK-UP	1
17	SIGNAL "A" S40 GATE & FLASHER CIRCUITS	1
18	SIGNAL "B" S40 GATE & FLASHER CIRCUITS	1
19	SIGNAL "C" S40 GATE & FLASHER CIRCUITS	1
20	SIGNAL "D" S40 GATE & FLASHER CIRCUITS	1
21	BACKBOARD 1A	1
22	BACKBOARD 1B	1
23	BACKBOARD 1C	1
24	SIDE A LAYOUT & RACK PLACEMENT	1
25	SIDE C LAYOUT	
26	SIDE B LAYOUT & TOP VIEW	1

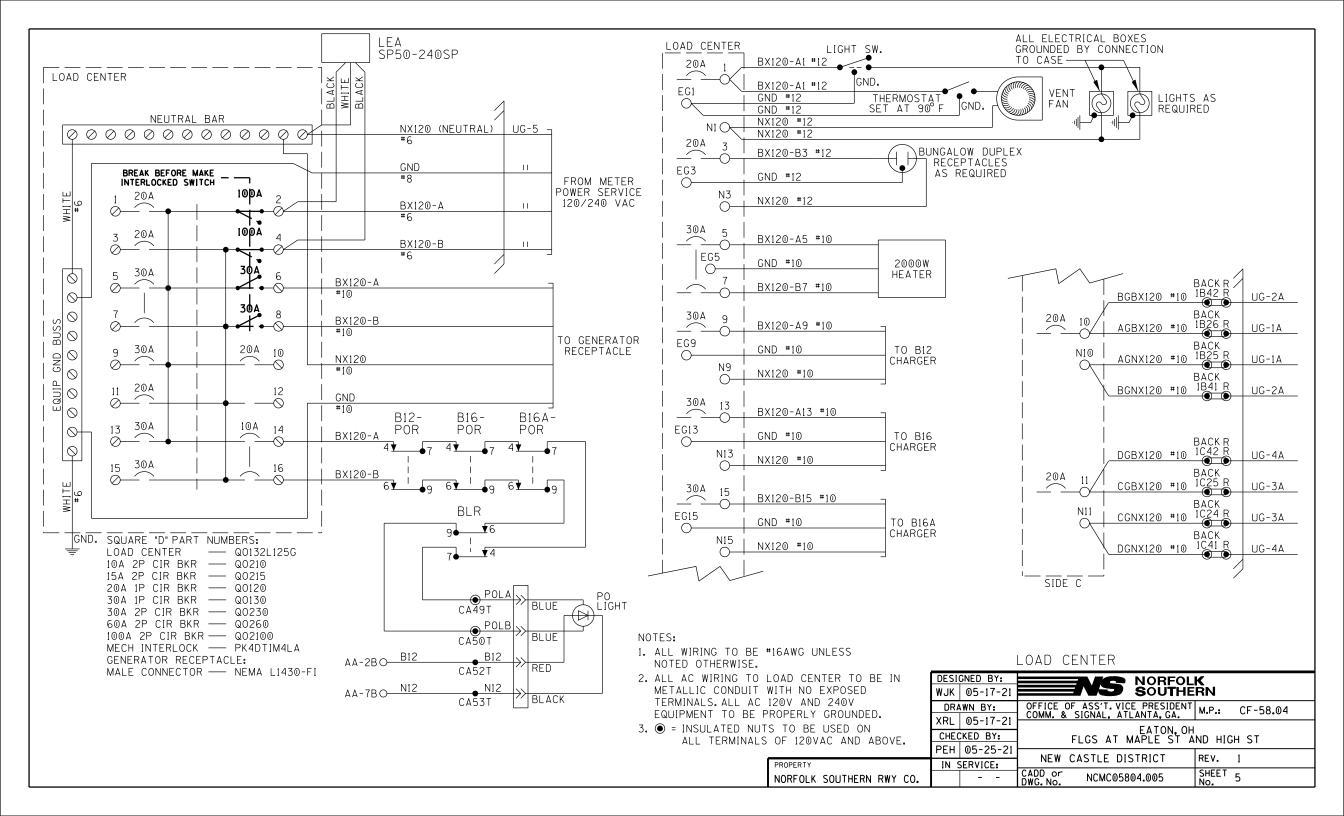
		REVIS	SIONS		
			1 05-17-21 V	VJK XRL	PEH
			NEW PLAN DRAWN OF NEW SHELTER.	ACCOUNT	
			FILE: #10.3143 & 1	-xx	
			PER: XXX	XXX	XXX
IN SERVICE					
SIGNED DATE		EX SHEET			
☐ CONSTRUCTION OFFICE COPY	DESIGNED BY:	<b>NS</b>	NORFOLK SOUTHERN		
RETURN TO S&E ENG. AFTER COMPLETION FIELD COPY	DRAWN BY: OF		ICE PRESIDENT M.P.:	CF-58.04	
RETURN TO CASE AFTER COMPLETION  PROJECT ENGINEER COPY	XRL 05-17-21 CHECKED BY:		EATON, OH MAPLE ST AND HIG	GH ST	
PROPERTY	PEH 05-25-21 IN SERVICE:	NEW CASTLE D	ISTRICT REV.	1	$\neg$
NORFOLK SOUTHERN RWY CO.	CAD	D or NCMC05	804.NXI SHEET	1	

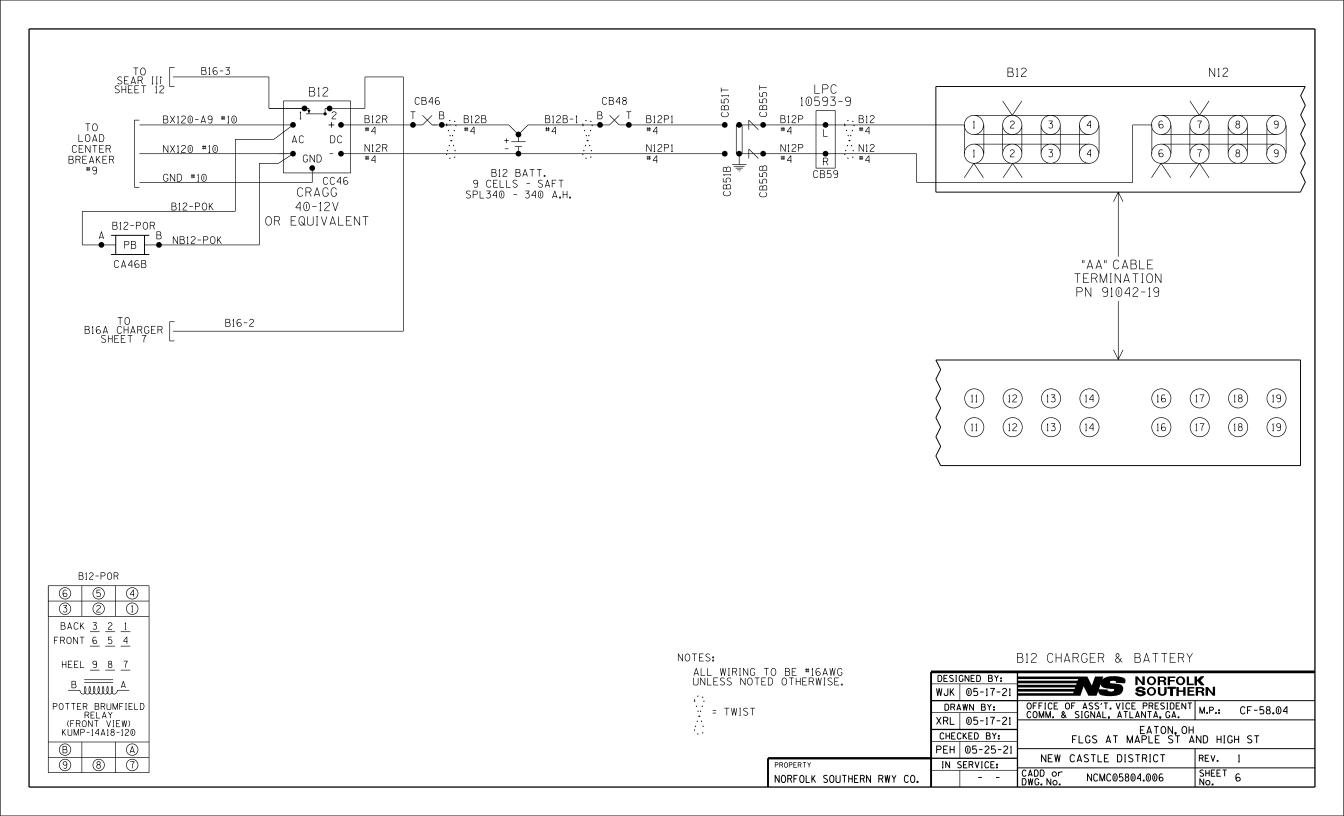


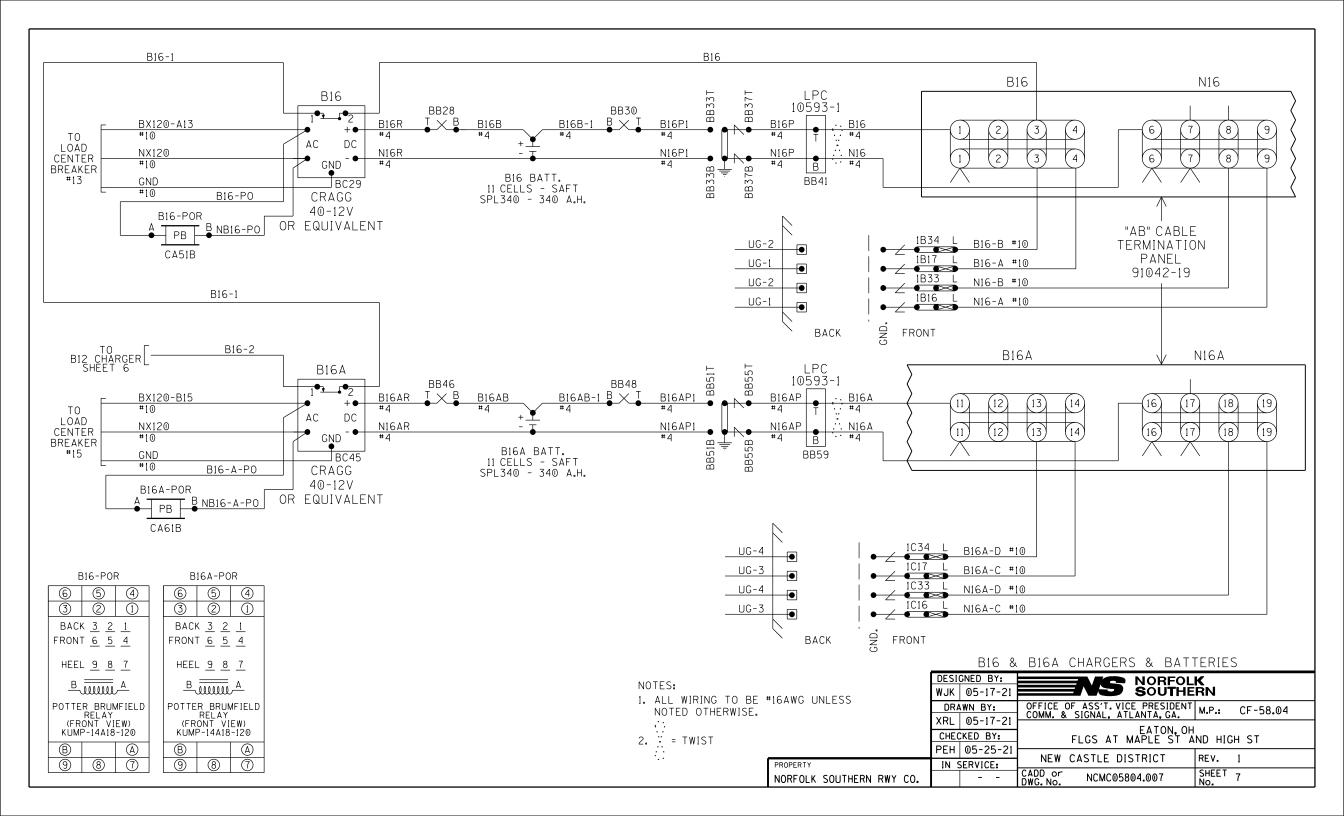


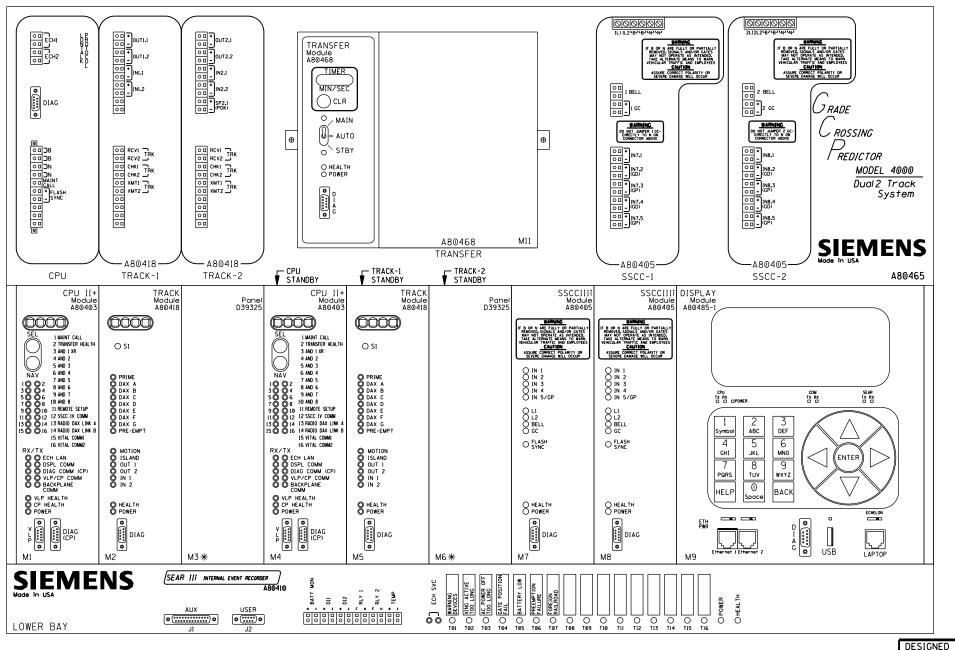












#### WARNING

REMOVAL OF THE SSCCIIII MODULE
WILL CAUSE THE GATE(S) TO
DROP WITHOUT GATE DELAY AND
FLASHING LIGHTS WILL NOT ACTIVATE.

#### CAUTION

ENSURE CORRECT POLARITY OF B AND N FOR SSCCIIII MODULE OR SEVERE DAMAGE WILL OCCUR.

REFER TO DETAILED INSTRUCTIONS ON THE SSCCIIII BEFORE APPLYING POWER TO THE POWER CONNECTOR(S).

\* = MAIN & STANDBY MAY USE RIO IN TRACK 2 SLOTS (M3 & M6)

GCP4000 CHASSIS & MODULE LAYOUT

		GCI 4000 CHASSIS & MODULE LATOUT
	DESIGNED BY: WJK 05-17-21	NORFOLK SOUTHERN
	DRAWN BY: XRL 05-17-21	OFFICE OF ASS'T. VICE PRESIDENT M.P.: CF-58.04
	CHECKED BY:	EATON, OH FLGS AT MAPLE ST AND HIGH ST
PROPERTY	PEH 05-25-21 IN SERVICE:	NEW CASTLE DISTRICT REV. 1
NORFOLK SOUTHERN RWY CO.		CADD or NCMC05804.008 SHEET 8

#### Program Report PREDICTORS: track 1 ------Track 1: Prime Used = Yes Track 1: Dax A Used = No Track 1: Dax B Used = No Location and SIN Track 1:Dax C Used = No DOT Number: 525100G Track 1: Dax D Used = No Milepost Number: CF-58.04 Track 1:Dax E Used = No Site Name: Maple High St Track 1: Dax F Used = No Track 1:Dax G Used = No SIN: 755003604916 GCP: track 1 Track 1: GCP Freq Category = Standard MCF and Template Selection Track 1:GCP Frequency = 525 Hz Track 1:Approach Distance = 2058 ft MCF Name: GCP-T6X-02-1.mcf Track 1: Uni/Bi/Sim-Bidirn = Bidirn MCF Revision: 021 MCFCRC: 6076E435 Track 1: GCP Transmit Level = Medium Track 1: Island Connection = Isl1 Template = 1A:6 Trk Bi Track 1: Island Distance = 299 ft Track 1: Computed Distance = 9999 ft Track 1: Linearization Steps = 100 Check Numbers \_\_\_\_\_ GCP: track | enhanced det Track |: Inbound PS Sensitivity = Off Track |: Speed Limiting Used = Yes Office Check No.(DT 4.6.0): 614EEF2D Office Check Number: 614EEF2D Config. Check Number: 095CD215 Track 1:0utbound False Act Lv1= Normal Track 1:0utbound PS Timer = 20 sec Track 1:Trailing Switch Logic = On (Based on MCF Revision 021) Program Track 1: Post Joint Detn Time = 15 sec Track 1: Adv Appr Predn = No BASIC: module configuration Track 1: Cancel Pickup Delay = This Isl Track 1 Slot = Track Track 2/R10 1 Slot = Not Used 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 3 Slot = Not Used Track 4 Slot = Not Used Track 5/RIO 2 Slot = Not Used Track 1: Prime MS/GCP Mode = Pred Track 6/RIO 3 Slot = Not Used Track 1: Prime Pickup Delay = 15 sec Track 1: Prime UAX = Not Used SSCC-1 Slot = SSCC3i SSCC-2 Slot = SSCC3i SEAR Used = Yes GCP: track ! pos start BASIC: MS/GCP operation Track 1: Positive Start = Off Track 1: MS/GCP Operation = Yes Track 1: Sudden Shnt Det Used = No Track 1:Low EZ Detection Used = No BASIC: island operation GCP: track | MS Control Track | : MS/GCP Ctrl|P Used = No Track | : MS Sensitivity Level = 0 Track 1: Island Used = Internal BASIC: preemption Track 1: Compensation Level = 1300 Preempt Logic = No Track 1: Warn Time-Ballast Comp = High Track 1: Low EX Adjustment = 39 BASIC: radio Dax links Track 1: Bidirn Dax Passthru = No Radio DAX link A Used = No Radio DAX link B Used = No Track 1: False Act on Train Stop = No Track 1: EX Limiting Used = Yes BASIC: Vital Comms links Track 1: EZ Correction Used = Yes Vital Comms link 1 Used = No VitalComms link 2 Used = No ISLAND: track 1 Track 1: IslFrequency = 4.9 kHz Track 1: Pickup Delay (2s +) = 0 sec Track 1: IslEnable IP Used = No

AND: track Andina AND 1 XR Used = Yes Pass Thrus = No 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 I Enable Drop = 0 sec AND 1 Wrap Used = No ADVANCED: MS restart MS/GCP Restart Used = No ADVANCED: out of service 00S Control = Display+00S IPs 00S Timeout = Yes 00S Timeout = 1 hrs ADVANCED: out of service 2 T1 00S Control = 00S Input 1 ADVANCED: track wrap circuits Wrap LOS Timer = 5 sec Track 1 Wrap Used = No ADVANCED: trk 1 overrides Track 1: All Predictors Override Used = No ADVANCED: OR logic OR 1 Used = No OR 2 Used = No OR 3 Used = No OR 4 Used = No Units = Standard

ADVANCED: internalI/O 1 Int.1 Sets = Not Used Int.! 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 ADVANCED: site options Daylight Savings = On Maint Call Rpt IP Used = No Emergency Activate IP = No EZ/EX Logging = Change EZ/EX Point Change = 3

#### GCP4000 PROGRAMMING

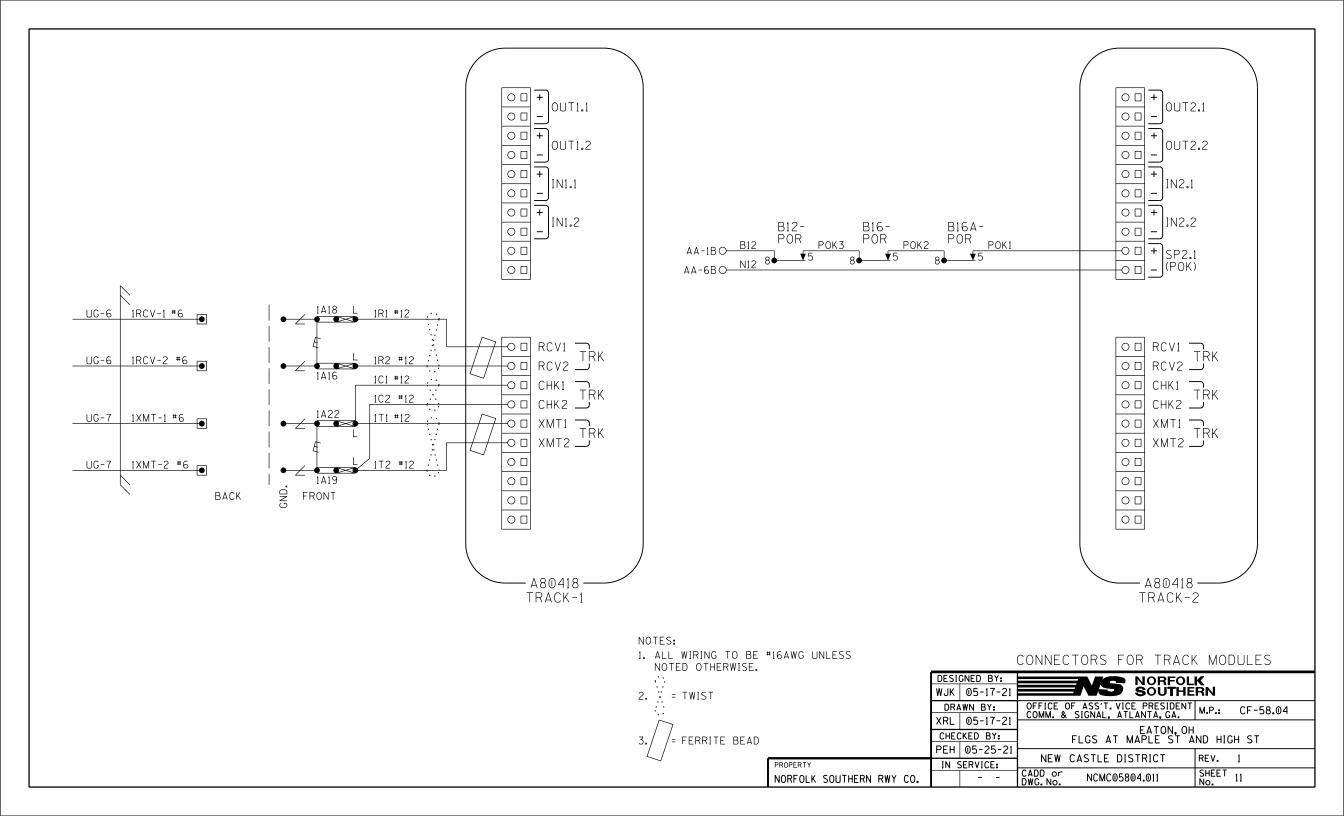
DESIGNED BY: WJK 05-17-21  DRAWN BY: XRL 05-17-21  CHECKED BY: PEH 05-25-21  NORFOLK SOUTHERN  OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.  EATON, OH FLGS AT MAPLE ST AND HIGH ST  NEW CASTLE DISTRICT  NEW CASTLE DISTRICT  REV. 1  CADD OF NCMC05804.009  NORFOLK SOUTHERN RWY CO.			OCI 4000 I NOONAMMINO	
WJK 05-17-21  DRAWN BY: XRL 05-17-21  CHECKED BY: PEH 05-25-21  IN SERVICE:  WJK 05-17-21  OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.  M.P.: CF-58.04  EATON, OH FLGS AT MAPLE ST AND HIGH ST  NEW CASTLE DISTRICT REV. 1  CADD OF NEWCOMPROA ORD. SHEET D.		DESIGNED BY:	NORFOLK	
XRL 05-17-21  CHECKED BY: PEH 05-25-21  IN SERVICE:  CADD OF NCMCOERRAL ORD SHEET D		WJK 05-17-21	SOUTHERN	
PROPERTY  IN SERVICE:    XRL   05-17-21			OFFICE OF ASS'T. VICE PRESIDENT M.P.:	CF-58.04
PROPERTY  IN SERVICE:    CADD or   NCMCOERROA 000   SHEET   O		XRL   05-17-21		
PROPERTY IN SERVICE: NEW CASTLE DISTRICT REV. 1			FLGS AT MAPLE ST AND HIG	SH ST
CADD OF NCHCOEGO AGO SHEET O			NEW CASTLE DISTRICT REV.	1
NORFOLK SOUTHERN RWY CO.   -   CAUD OF NCMC05804.009   NCMC 9	PROPERTY	IN SERVICE:	CADD as CHEET	
Billot Hot	NORFOLK SOUTHERN RWY CO.		DWG. No. NCMC05804.009 SHEET	9

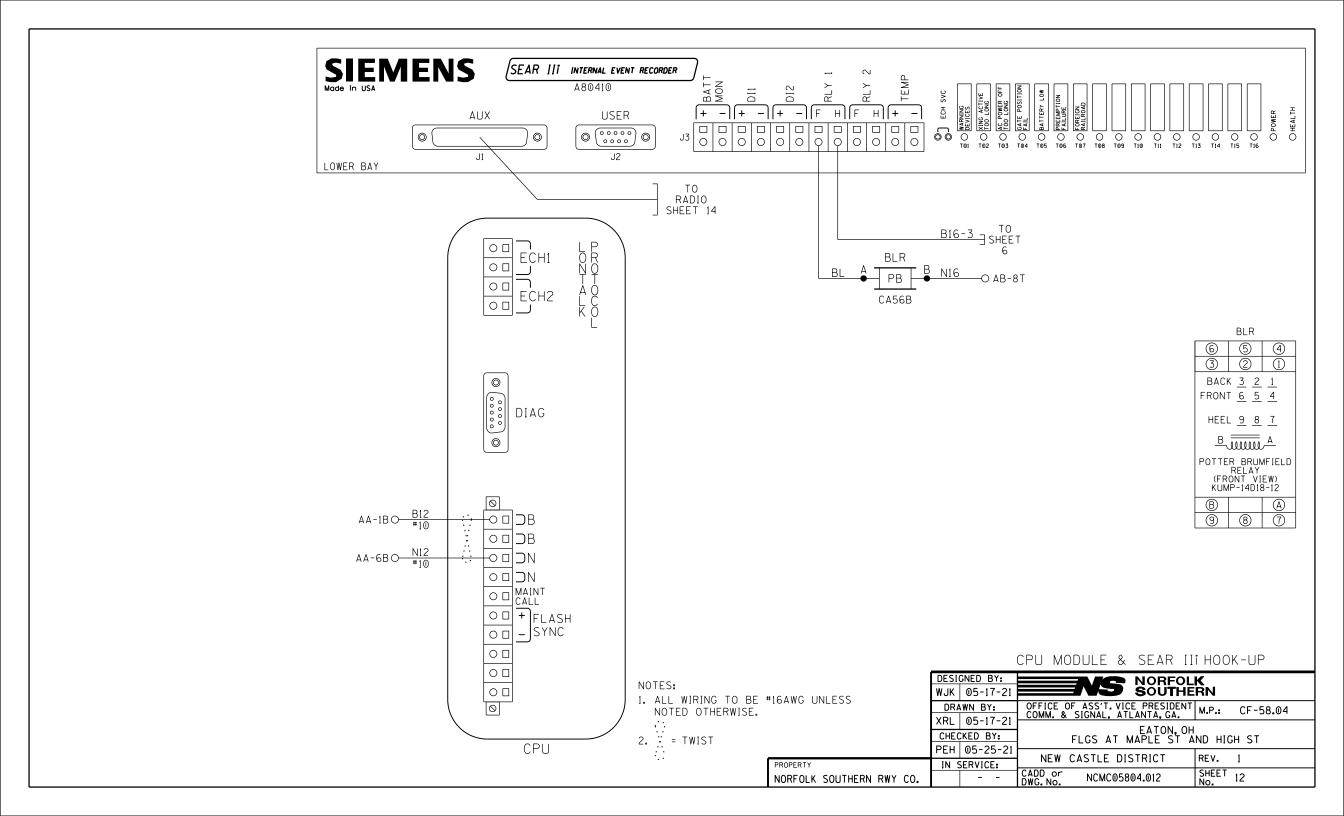
```
Gates Used = Yes
                                                  SEAR Subnode = 3
SSCC1+2 GPs Coupled = Yes
                                                  DI1 = Not Used
Min Activation = 0 sec
                                                  DI 2 = Not Used
Rmt Activation Cancel = 2 min
                                                  Rly 1 = General1
Bell On Gate Rising = No
                                                  Riy 2 = Not Used
Mute Bell On Gate Down = No
SSCCIV Controller Used = No
                                                  SEAR: inputs
                                                  SP 2.1 = POK 1
                                                  SP 3.1 = Not Used
SSCC: 1
SSCC-1 Activation = AND 1 XR
                                                  SP 4.1 = Not Used
SSCC-1 Gate Delay = 6 sec
SSCC-1 Number of GPs = 1
                                                 SP 5.1 = Not Used
                                                  SP 6.1 = Not Used
SSCC-1 Number of GDs = 2
SSCC 1: Flash Rate = 40
                                                  SEAR: slot 1-4 inputs
SSCC 1:Low Battery Detection = No
                                                  IN 1.1 = Not Used
SSCC 1:Flash Sync = master
                                                  IN 1.2 = Not Used
SSCC 1: Invert Gate Output = No
                                                  IN 2.1 = Not Used
SSCC 1:Lamp NeutralTest = Off
                                                  IN 2.2 = Not Used
Aux-1 Xna CtrlUsed = No
                                                  IN 3.1 = Not Used
                                                  IN 3.2 = Not Used
SSCC: 2
SSCC-2 Activation = AND 1 XR
                                                  IN 4.1 = Not Used
                                                  IN 4.2 = Not Used
SSCC-2 Gate Delay = 6 sec
SSCC-2 Number of GPs = 0
SSCC-2 Number of GDs = 2
SSCC 2 : Flash Rate = 40
                                                  SEAR: inputs slot 5
                                                  IN 5.1 = Not Used
                                                  IN 5.2 = Not Used
SSCC 2:Low Battery Detection = No
SSCC 2:Flash Sync = slave
                                                  SEAR: inputs slot 6
SSCC 2 : Invert Gate Output = No
                                                  IN 6.1 = Not Used
SSCC 2 : Lamp Neutral Test = Off
                                                  IN 6.2 = Not Used
Aux-2 Xng CtrlUsed = No
                                                  SEAR: slot 7-8 inputs
OUTPUT: assignment page 1
                                                  IN 7.1 = Not Used
OUT 1.1 = Not Used
                                                  IN 8.3 = Not Used
                                                  IN 8.5 = Not Used
OUT 1.2 = Not Used
INPUT: assignment page 1
                                                  SITE: programming
IN 1.1 = Not Used
                                                  Radio Subnode = 1
IN 1.2 = Not Used
                                                  Field Password = Off
                                                 Low Battery Enabled = Off
IO: assignment SSCC
OUT GC 1 = Gate Output 1
OUT GC 2 = Gate Output 2
                                                  Configuration Package File
IN 7.1 = Not Used
                                                 Filename: ncmc05804.pac
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 = GD 2.2
IN 8.3 = Not Used
IN 8.4 = GD 2.1
```

IN 8.5 = Not Used

#### GCP4000 PROGRAMMING

	DESIGNED BY:	NORFOLK
	WJK 05-17-21	SOUTHERN
	DRAWN BY:	OFFICE OF ASS'T. VICE PRESIDENT M.P.: CF-58.04
	XRL   05-17-21	· · · · · ·
	CHECKED BY:	EATON, OH FLGS AT MAPLE ST AND HIGH ST
	PEH 05-25-21	1
PROPERTY	IN SERVICE:	NEW CASTLE DISTRICT REV. 1
NORFOLK SOUTHERN RWY CO.		CADD or NCMC05804.010 SHEET NO. 10





	SITE SET UP	PROCEDURE	
	FUNCTION	LED DISPLAY	
Ī	SITE NAME	MAPLE ST AND HIGH ST	
	MILEPOST	CF-58.04	
	DOT NUMBER	525-100G & 525-101N	
	TESTER TYPE	CROSSING	
	AUTO DST ADJUST	NO	
	TIMEZONE	OTHER	
	GMT OFFSET	-00:00	
	DATE FORMAT	MM-DD-YYYY	
	TEMP. FORMAT	FAHRENHEIT	
	INDICATE HOLDOFF (SEC)	0	
	INDICATE REFRESH (SEC)	60	
	GEO CTL REFRESH (SEC)	0	
	SITE ADDRESS (ATCS)	7.550.036.049.03.01	
	SITE TYPE	NO COMMUNICATION	
#[	OFFICE ADDRESS (ATCS)	2.550.00.0000	
#[	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	
$\star$	USER PORT BAUD	57600	
$\star$	USER PORT DATA BITS	8	
$\star$	USER PORT PARITY	NONE	
$\star$	USER PORT STOP BITS	1	
$\star$	USER PORT FLOW CONTROL	NONE	
$\star$	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			
	ANDI USED AS XR?	YES			
	AND2 USED AS XR?	NO			
	AND3 USED AS XR?	NO			
	AND4 USED AS XR?	NO			
	AND5 USED AS XR?	NO			
	AND6 USED AS XR?	NO			
	AND7 USED AS XR?	NO			
	AND8 USED AS XR?	NO			
*	XR CONTROLLED BY FOREIGN RR?	NO			
	ENTRANCE GATES?	4			
	85% VOLTAGE RELAY OUT?	YES			
	BATTERY BANKS?	3			
	BATT MON USED?	NO			
	PREEMPTION?	NO			
	INTERNAL CROSSING CONTROLLERS?	2			
	EXTERNAL CROSSING CONTROLLERS?	0			
	VHF COMMUNICATOR?	NO			
	DTMF ACTIVATION?	NO			
	ILOD MODULES?	0			
	USE CELL MODEM NON-CRITICAL FEATURE?	NO			

PROGRAM MENU QUESTIONS	PROGRAM
EDIT DIGITAL INPUTS	NO
EDIT BATTERIES	NO
EDIT RELAYS	NO
EDIT INDICATOR LEDS	NO
EDIT TEST LEDS	NO
GCP4K ATCS SUBNODE	16

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

#### NOTES:

1. # = NOT DISPLAYED IF SITE
TYPE = NO COMMUNICATION

2. ★ = USE DEFAULT SETTINGS

3. \* = ONLY DISPLAYED IF CROSSING CONFIGURATION = SPLIT GATE

PROPERTY

NORFOLK SOUTHERN RWY CO.

DESIGNED BY:
WJK 05-17-21

DRAWN BY:
COMM. & SIGNAL, ATLANTA, GA.

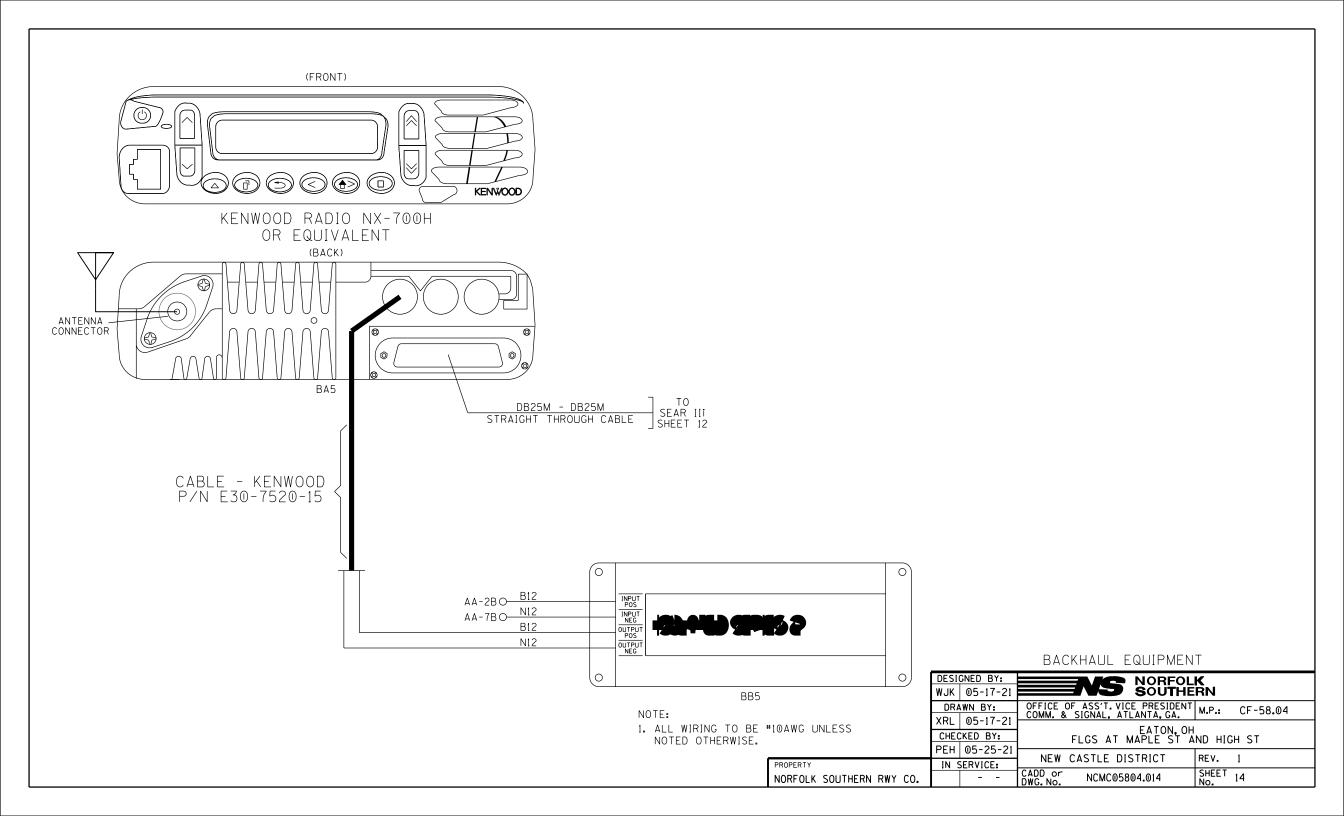
W.P.: CF-58.04

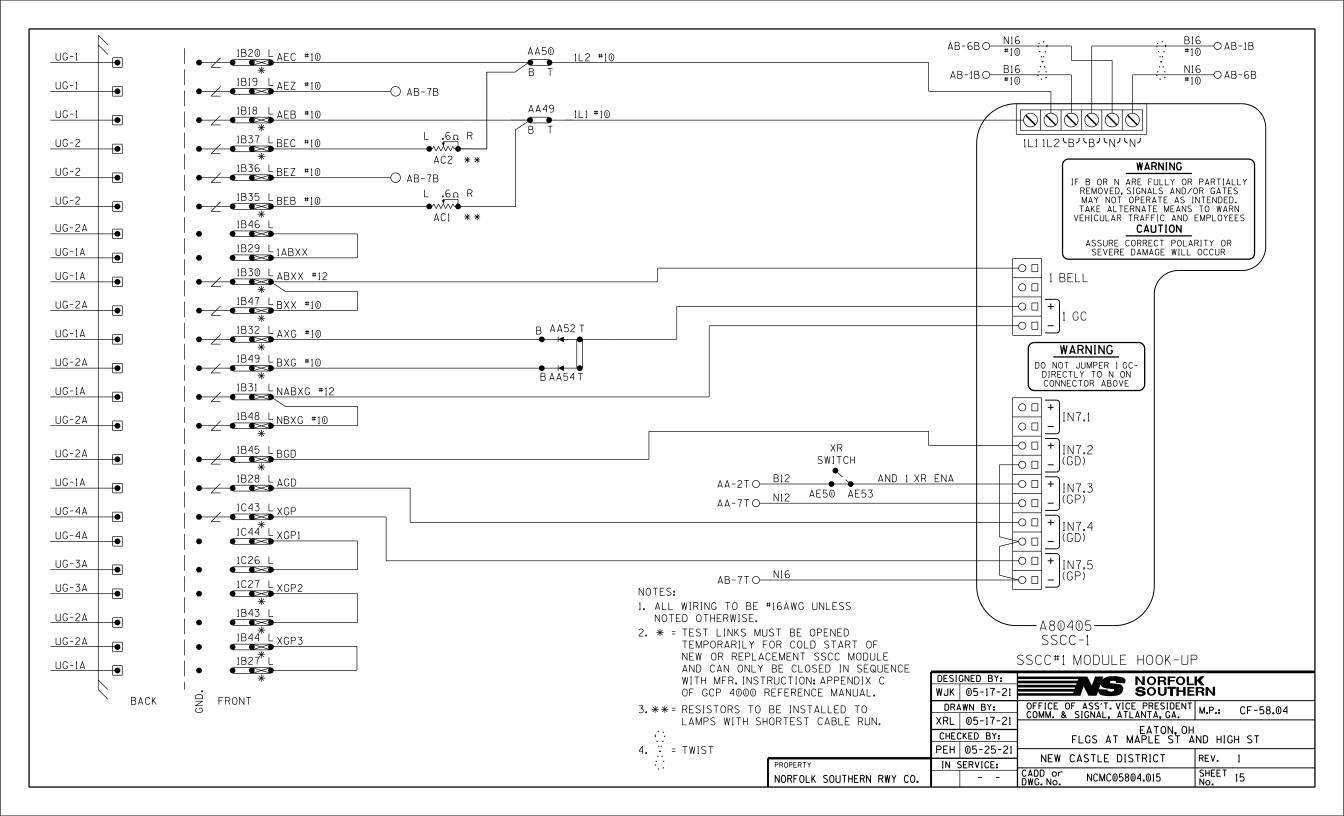
CHECKED BY:
PEH 05-25-21
IN SERVICE:
CADD or DWG. No.

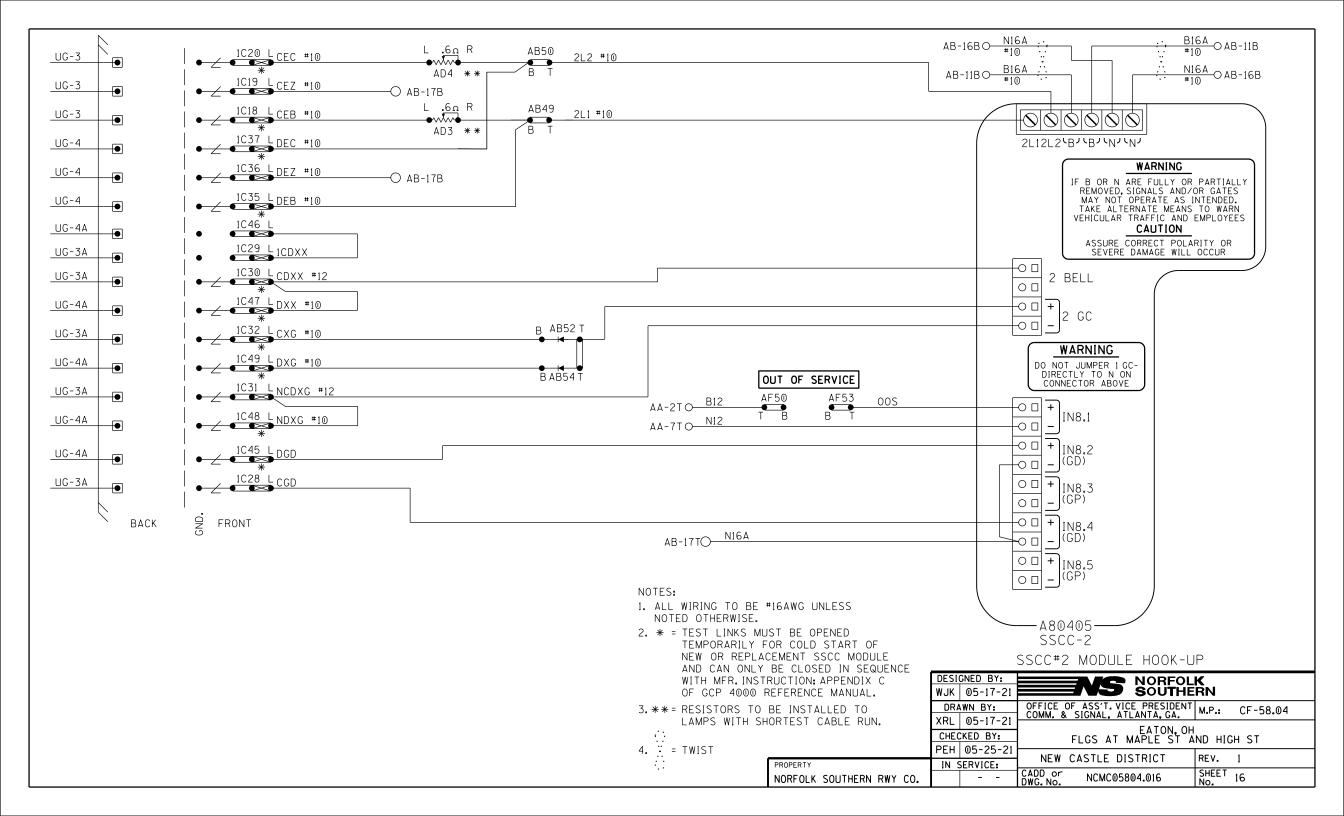
NCMC05804.013

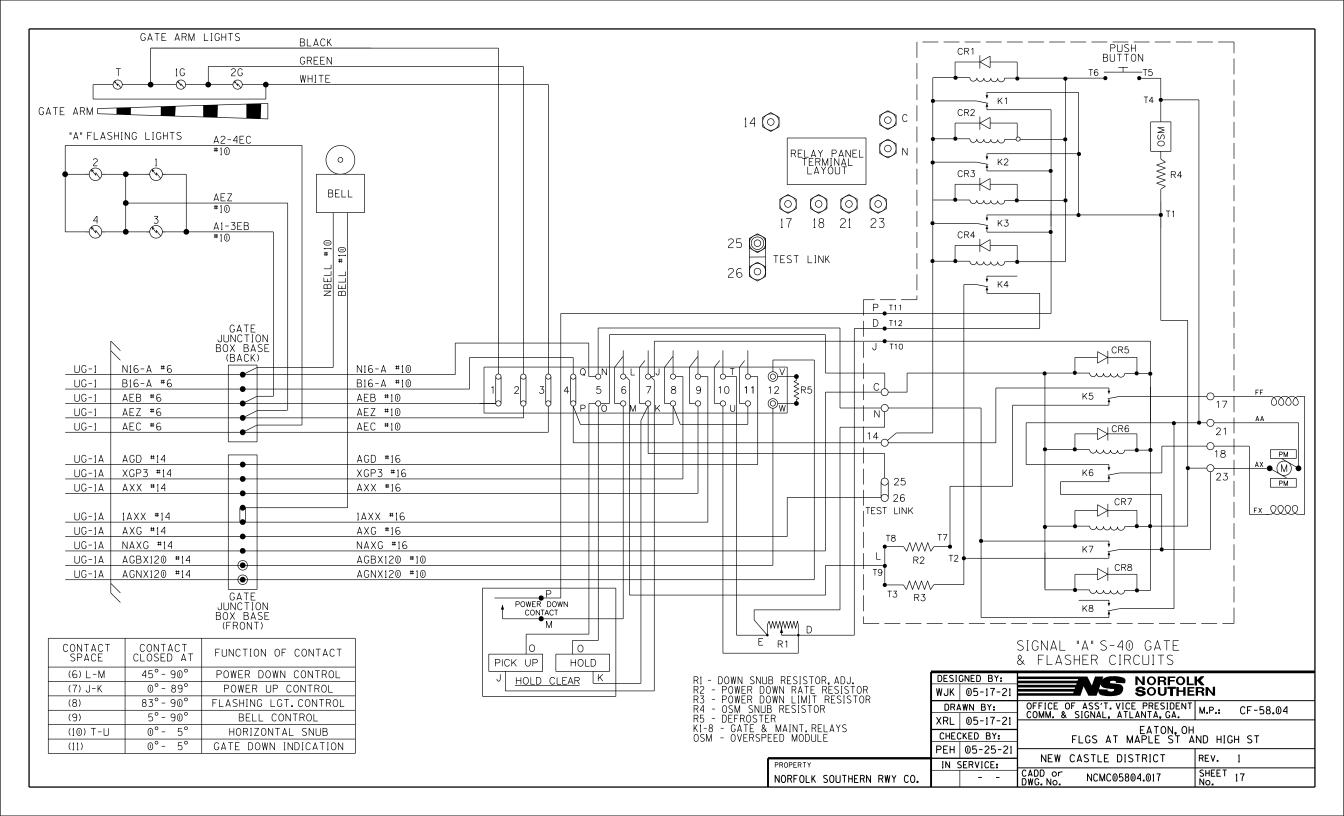
NO.

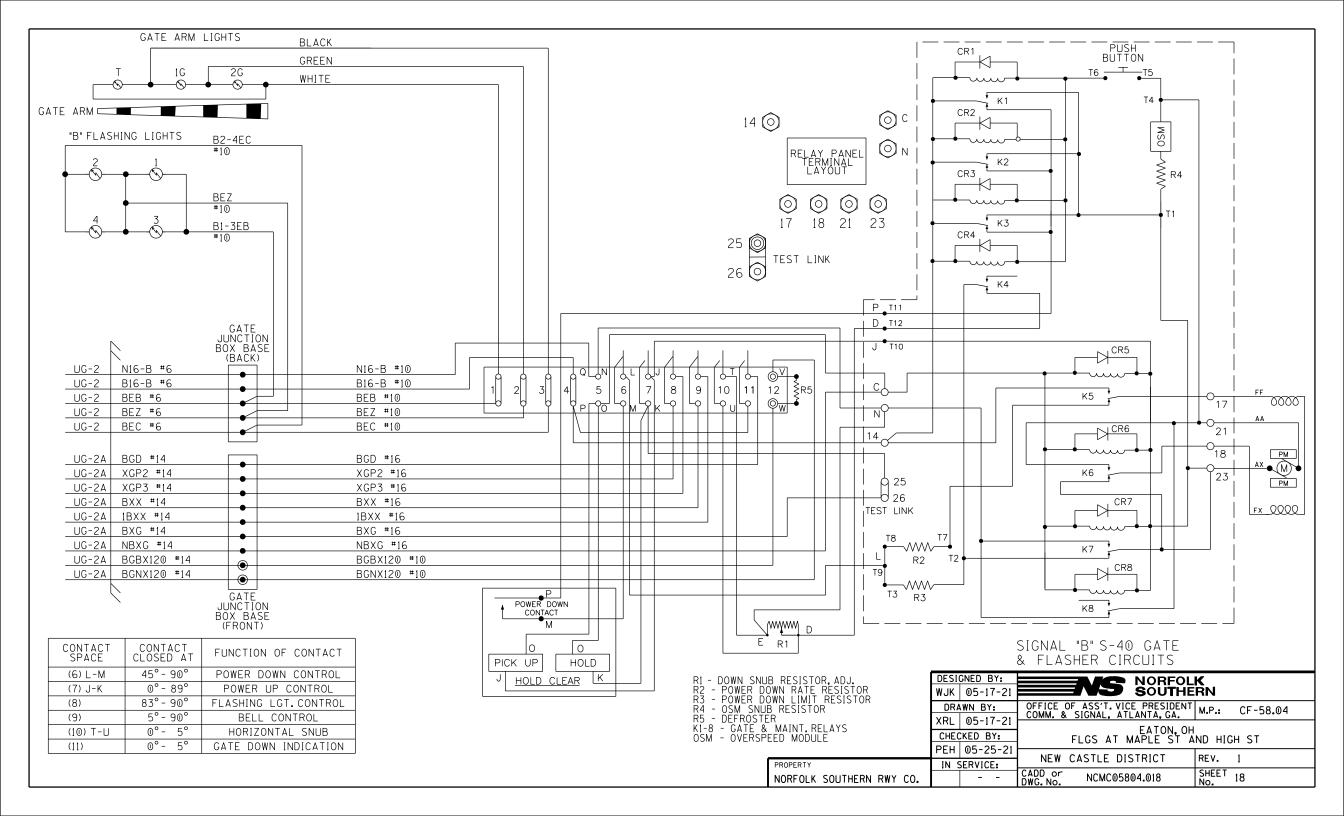
#### SEAR III PROGRAMMING

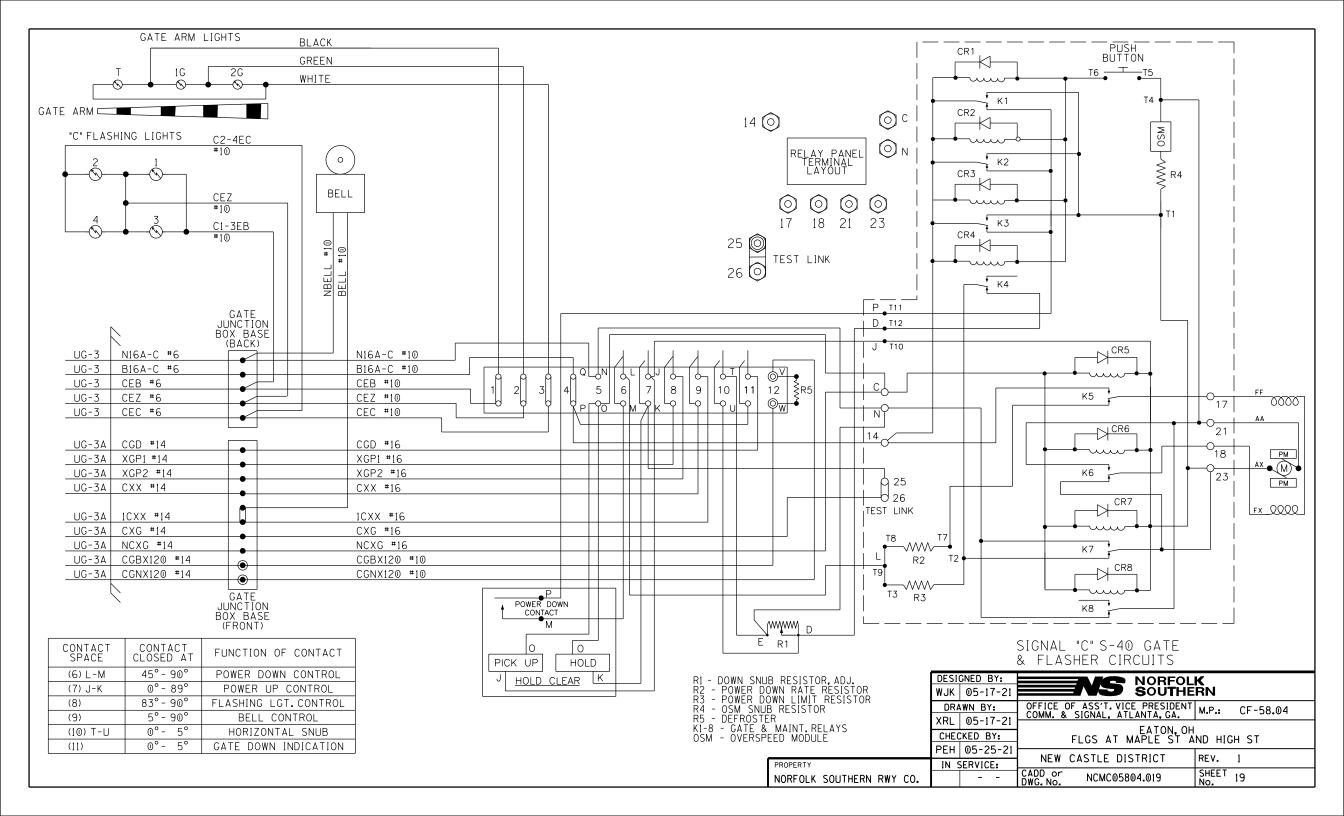


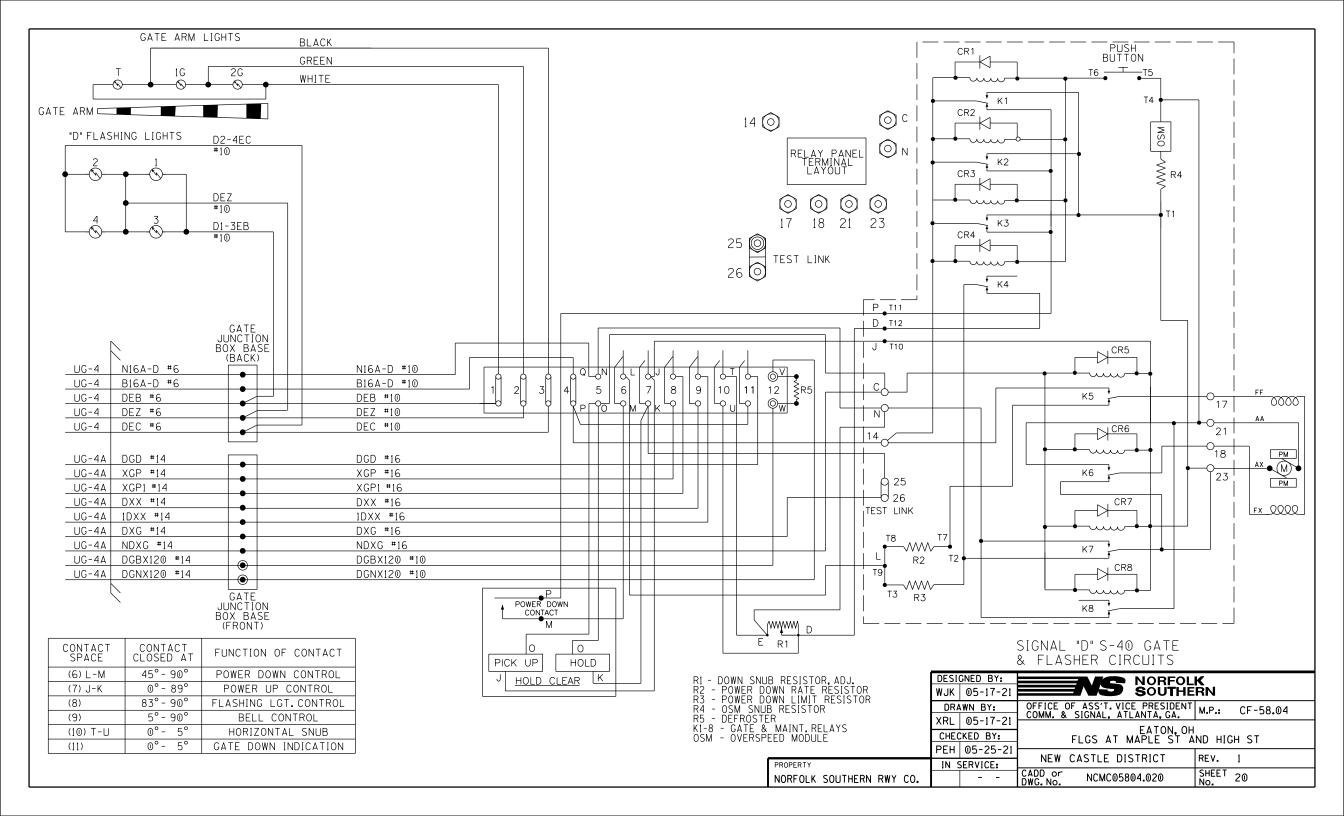


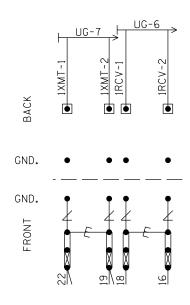












#### NOTES:

1. E = HEAVY DUTY EQUALIZER (022700-1X)

2. ∠ = ERICO LIGHTNING ARRESTER (EPD2050F)

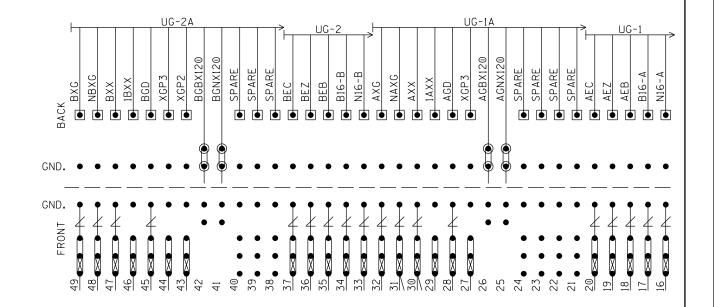
3. CND. ●= THROUGH GROUND POST ON EACH TERMINAL BLOCK TO FARADAY SHIELD

5. INSTALL TEST LINKS ON ALL TRACK WIRES AND ON ALL LOW VOLTAGE UNDERGROUND CABLE TERMINATIONS.

NORFOLK SOUTHERN RWY CO.

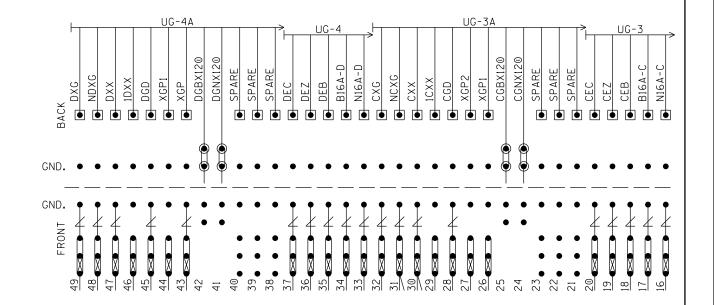
### BACKBOADD 1A

	BACKBOARD 1A					
DESIGNED BY:		NORFOLK				
WJK	05-17-21	NS NORFOLK SOUTHERN				
DRAWN BY:		OFFICE OF ASS'T. VICE PRESIDENT M.P.: CF-58.04				
XRL	05-17-21	·				
CHECKED BY:		EATON, OH FLGS AT MAPLE ST AND HIGH ST				
PEH   05-25-21		NEW CASTLE DISTRICT REV. 1				
IN SERVICE:						
		CADD or NCMC05804.021 SHEET 21				



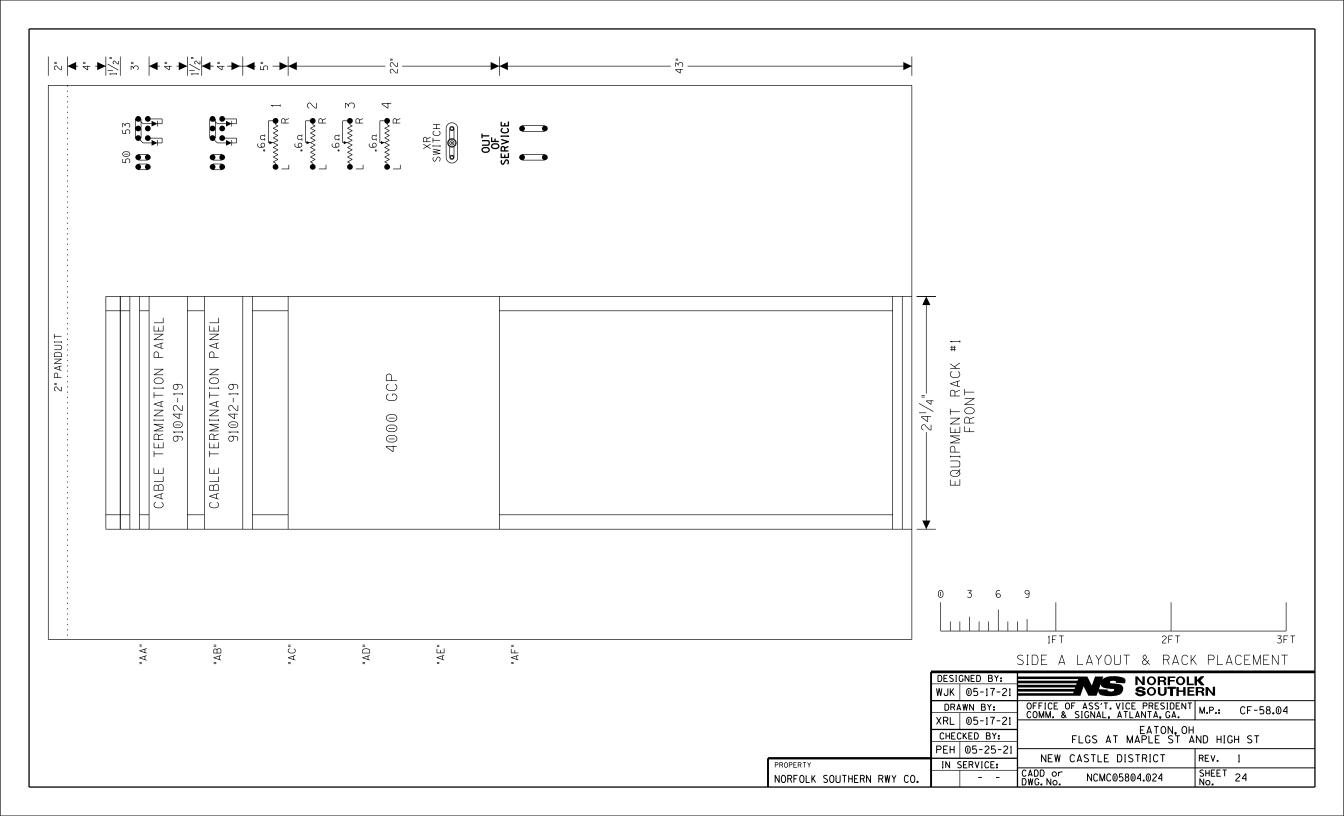
## BACKBOARD 1B

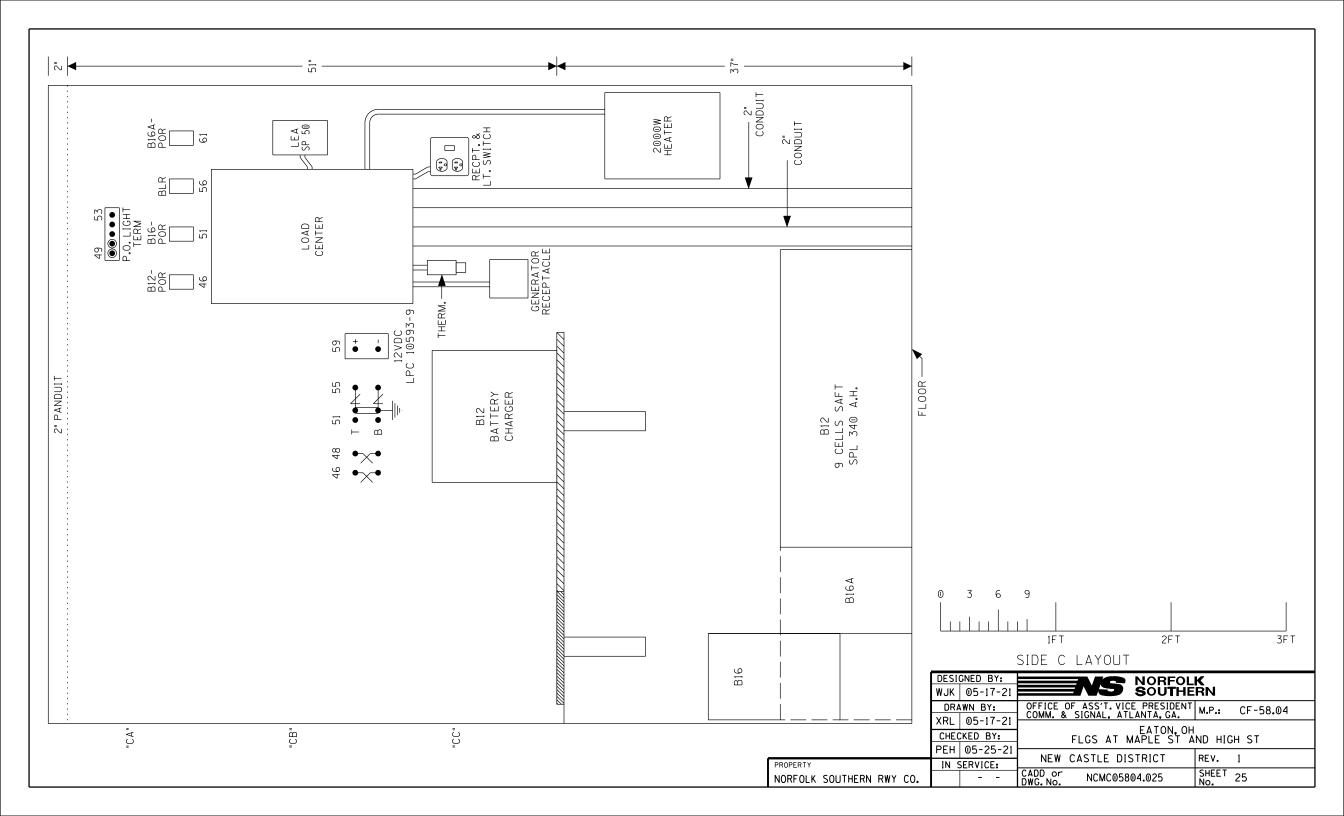
NOTES:	DESIGNED BY: WJK 05-17-21	NS NORFOLK SOUTHERN
1. GND. •= THROUGH GROUND POST ON EACH TERMINAL BLOCK TO FARADAY SHIELD	DRAWN BY:	OFFICE OF ASS'T. VICE PRESIDENT M.P.: CF-58.04
2. • = INSULATED NUTS TO BE USED ON ALL 120VAC AND ABOVE TERMINALS	XRL 05-17-21 CHECKED BY:	EATON, OH FLGS AT MAPLE ST AND HIGH ST
PROPERTY	PEH 05-25-21	NEW CASTLE DISTRICT REV. 1
NORFOLK SOUTHERN RWY CO.		CADD or NCMC05804.022 SHEET 22

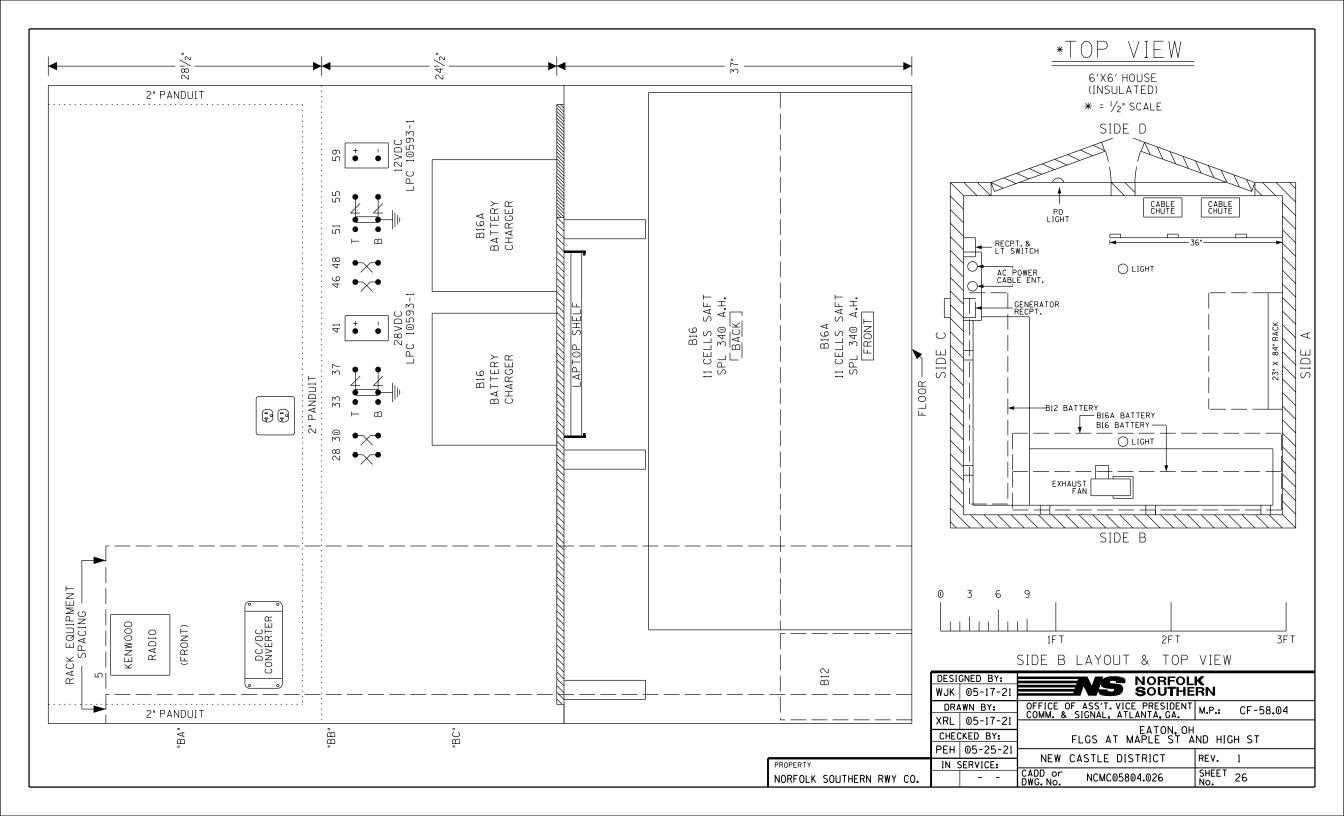


## BACKBOARD 1C

NOTES:	DESIGNED BY: WJK 05-17-21	NS NORFOL SOUTHE	K RN
1. GND. •= THROUGH GROUND POST ON EACH TERMINAL BLOCK TO FARADAY SHIELD	DRAWN BY: XRL 05-17-21	OFFICE OF ASS'T. VICE PRESIDENT COMM. & SIGNAL, ATLANTA, GA.	
2. ● = INSULATED NUTS TO BE USED ON ALL 120VAC AND ABOVE TERMINALS	CHECKED BY: PEH 05-25-21	EATON, OH FLGS AT MAPLE ST A	ND HIGH ST
PROPERTY	IN SERVICE:		REV. 1
NORFOLK SOUTHERN RWY CO.		CADD or NCMC05804.023	SHEET 23









#### **Detailed Estimate for Grade Crossing Warning Devices**

City/State: EATON, OH Road: MAPLE ST

MilePost: CF-58.06 DOT/AAR: 525100G

State Proj. No.: PID 116118 County: PREBLE

S&E Proj. No.: 10.3144 File Number: 061-10.0197

Man Days: 30

\*\*\*Purchases - Others\*\*\*

Meals and Lodging: \$4,498.63 Rental of Equipment: \$6,149.61

(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 5 Days)

Construction Supervision Vehicle: \$940.68

Purchases - Other Total: \$11,588.92

\*\*\*Material And Additives\*\*\*

Material Cost: \$39,069.00

Sales and Use Tax: \$3,126.00

Material Handling Freight: \$3,906.94

Material Total: \$46,101.94

\*\*\*Labor And Additives\*\*\*

Labor Cost: \$10,590.00

(6 man crew at \$2,118.00 a day for: 5 days)

Payroll Tax & Overheads: \$9,029.03
Preliminary Engineering: \$0.00

Construction Supervision: \$3,093.34

Labor Total: \$22,712.37

Project Cost: \$80,403.23

Scrap / Salvage Credit: \$0.00

Project Total: \$80,403.23

Estimated on: 15-Jul-22 Estimated by: Q2SUJ

Estimate valid for 1 year from date of estimate



# Norfolk Southern Railway <u>Highway Crossing Signalization Program - Material List</u>



Do not substitute items without permission from S & E Engineering

City:	EATON			
Road:	MAPLE ST			
Mile Post:	CF-58.06			
Drawing Number:	NCMC05831			
State ProjectNumber:	PID 103486			
County:	PREBLE			
A A R Number:	525100G			
Project Number:	10.3144			
File Number:	061-10.0197			
New File Number: CX0101437				
WBS:	F-07495			
Store Number:				
Supervisor:	S.A. BENNITT			
Tax Code:	Tax Code:			
Set - Material Managem     Sets - with plans shippe	Vendor to supply the following copies after pricing:  1 Set - Material Management with original Invoice 2 Sets - with plans shipped in car with material 1 Set - S&EGen. Supt. Construction w/copy of invoice			

Location: EATON OH S&E Proj. No.: 10.3144 AFE No.: F-07495 Drawing No.: NCMC05831

Store No.: P.O.Number: Date Required: Date Shipped: Vendor: Xorail

Quantity Installed Quantity Price Quantity Date Date Date Returned Special Shipped Quan. Qty. Class-Item-CD UI per Item Total Price | Item Description Quan. Quan. (Credit) Instructions EΑ \$12.10 AAR/DOT NUMBER PLATE/DECAL, ORDER 3 PER PROJECT. 60 670-360693-4 \$6.05 DAY LEAD TIME. SUPPLIED BY S'TRAN. EΑ 2 670-980689-4 \$74.80 \$149.60 BRACKET HIGH WIND, (RIGID 3'), WIG- 191036, WALRUS TUSK TYPE 2 670-561375-4 EΑ \$1,197.90 \$2,395.80 BRACKET, GATE SAVER, NEG385102GS, SPRING LOADED SWING AWAY ADAPTER FOR FIBERGLASS/ALUMINUM GATES, USE WITH GATE 38' AND LESS 465-939422-4 LF \$3.01 \$1,505.00 CABLE, UG 12 CONDUCTOR NO 14 AWG SOLID EACH 500 CONDUCTOR WITH 5/64 IN INSULATION 10 MIL 465-292929-4 LF \$4.12 \$2.060.00 CABLE, UG 5 COND, NO. 6 AWG SOLID COPPER CABLE TO 500 MEET NS CORP. SPEC. FOR SIGNAL 2 670-794453-4 EΑ \$1.345.92 \$2.691.84 COUNTERWEIGHT PKAGE, 25-31 GATE S'TAN S- MECH ONLY. STAINLESS TO INCLUDE HUB, SUPPORT ARMS 670-760012-4 EΑ \$41.80 \$167.20 COVER, FOR 1 WAY FLASHING LIGHT ASSY, 18 OZ. BLACK 4 VINYL COATED NYLON. ====TO COVER 2 LAMPS==== 2 670-000003-4 EΑ \$255.85 \$511,70 FILL/STONE #57, QUANITY IS BASED ON TRUCK LOAD PLUS **DELIVERY COST** 2 EΑ \$613.80 \$1,227.60 FOUNDATION, DIXIE.S-2 GATE 2'6"X2'6"X5'6" ASSEMBLED 670-015231-4 FΑ 2 670-005378-4 \$408.65 \$817.30 GATE ARM. ALUMINUM. 25-31 FT. ARM ASSEMBLY. INCLUDES GATE GUARD FOR GATE LIGHT CABLE. HIGH INTENSITY VERTICAL STRIPES. 2 670-092155-4 EΑ \$176.00 \$352.00 LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) REC #: 9298-1120 EΑ \$3,785.76 LAMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003-2 670-005058-4 \$1.892.88 L487XNS) EΑ \$2.849.82 MAST. 5" ALUMINUM 13'10" WITH DOUBLE JCT. BOX BASE. 2 \$1,424,91 670-637778-4 S'TRAN P# 070519-11AX. \$7,701,74 MECHANISM, GATE MODEL S-40, WITH CONTACT HEATER. 2 670-521147-4 EΑ \$3.850.87 COMPLETE W/RELAY S'TRAN # 074000-W00090 2 670-000001-4 EΑ \$726.23 \$1,452,46 MISC, EXPENSE, MATERAIL/FILL EΑ \$7,000.00 \$7,000.00 MISC. EXPENSE, UNDERGROUND BORING 000-000000-4 2 670-018542-4 EΑ \$47.30 \$94.60 PADLOCK, ABLOY 5/16" X 1" SHACKLE CLEARANCE KEYED FOR

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER

C&S DEPT USE: INCLUDES ETCHING:

Location: EATON ОН S&E Proj. No.: 10.3144 AFE No.: F-07495 Drawing No.: NCMC05831 Store No.: P.O.Number: Date Required:

Date Shipped:

							Quantity Installed			Quantity	
			Price			Quantity	Date	Date	Date	Returned	Special
Qty.	Class-Item-CD	UI	per Item	Total Price	Item Description	Shipped	Quan.	Quan.	Quan.	(Credit)	Instructions
2	255-646807-4	EA	\$32.92	\$65.84	PADLOCK, SAFETRAN PART NO. 030399-29X SCREW TYPE FOR CIR CONTROLLER AND BTY. BOX						
1	670-514605-4	EA	\$13.56	\$13.56	PINNACLE, W-C SECT 1-11, 4"& 5" REF K1 110-8 OR SAFETRAN NO. @035045-503X						
1	465-002899-4	EA	\$46.37	\$46.37	REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES						
2	670-016346-4	EA	\$154.53	\$309.06	SIGN, X-BUCK, HI-INTENSIVE REFLECTIVE FRT. & BACK FOR ALL STATES, SAFETRAN# 035200-91X						
2	670-393331-4	EA	\$30.58	\$61.16	SIGN, CROSSING ENS MALFUNCTION ASSEMBLY FOR 4" AND 5" MAST, SAFETRAN #T17215						
10	670-007238-4	EA	\$175.99	\$1,759.90	UNIT, THE INSTALLATION AND WIRING OF A DEVICE WHICH REQUIRE A MINIMUM OF FOUR WIRE CONNECT-						

Total Material: \$37,030.41

Vendor: Xorail

APPROVED BY STATE APPROVED BY RAILROAD CAR NUMBER SEAL NUMBER



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt, Chair

DATE June 28, 2022

Norfolk Southern Railway Company Mr. Kurt Young Administrator Highway Grade Crossing Improvements 1200 Peachtree Street Atlanta, GA 30309-3597

RE: PRE, North Maple St. DOT 525100G, PID 116118

Dear Mr. Young:

A diagnostic review was held at the above grade crossing on 8/24/2017. The crossing has been recommended for lights and gates. Preliminary engineering (PE) will not be covered. The construction costs shall be borne Eighty percent (80%) by ORDC and Twenty percent (20%) by N/S. Norfolk Southern Railway Company is authorized to proceed with the site plans and cost estimates or bid package for this project. This authorization is made with the stipulation and understanding that any field work needs prior approval before work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Please note that the railroad must provide ORDC with a plan stamped by a professional engineer licensed in the State of Ohio prior to acceptance and close out of the project.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team about requirements for this location. Any minor roadway work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is Eric Thompson. Eric can be reached at (513) 520-2687, or Eric. Thompson@dot.ohio.gov, if you have any questions.

Sincerely,

Cric Thompson

Project Manager

### Michael C Lynch

C: John Williams, Director of Transportation, PUCO Jill Henry, Rail Division Chief, PUCO Heather Hamilton, ORDC ORDC (file)

Attachments: 3 (diagnostic review form, letter agreement, purchase order)



Mike DeWine, Governor Jon Husted, Lt. Governor

Mark Policinski, Chair

January 12, 2022

Kurt Young Norfolk Southern Corporation 650 West Peachtree Street., NW Box 41 Atlanta, GA 30308

Subject:

Grade Crossing Warning Device Improvements, PID 116118

Preble County, North Maple Street, DOT# 525100G

Dear Mr. Young:

The Ohio Rail Development Commission (ORDC) and Norfolk Southern (NS) identified the above referenced grade crossing on the Eaton Corridor for modernization of warning devices. A diagnostic review was conducted at the subject grade crossings on November 17, 2017.

These projects shall be completed in compliance with Agreement No. 17450, dated December 19, 2012, entered into by the State of Ohio and Norfolk Southern Railway Company and incorporated as if fully rewritten herein. This construction shall also meet the general terms and conditions under the Fixing America's Surface Transportation Act and subsequent amendments and the State of Ohio's Federally Funded Warning Device Program.

Preliminary engineering (PE) will not be covered. The construction costs shall be borne Eighty percent (80%) by ORDC and Twenty percent (20%) by NS. Reimbursable costs will be limited by the ORDC based on approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to NS and may be amended by the ORDC based on revised estimates and bid tabulations.

This Letter Agreement and the approved plans constitute the scope of the project. NS shall notify ORDC in writing of any changes in the scope of work which are not in the approved plans and estimates and secure approval in writing of same before the work is performed.

Construction will not be commenced by NS prior to ORDC issuing a construction authorization. Construction will be completed by NS within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.

Please indicate your acceptance of the terms and conditions of this Letter Agreement by signing and returning one (1) copy to me at the address listed above and retain a copy for your files. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be a duplicate original, but all of which taken together shall be deemed to constitute a single Agreement.

Sincerely,

Matthew Dietrich **Executive Director** 

Norfolk Southern:

Title: \_\_VP ATC

Date: 1/14/2022

PRE North Maple Street NS PID 116118 525100G



Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)			<b>Date:</b> 8/24/20	17
Location Data				
Street or Road Name; High Street		- Ni		
Route/Road Number			US DOT No.: 52	
(i.e. Twp., Co., SR or US)  County: PRE Township:		City:		
Pailmand	D.3	(In or Near)	City of Eaton	
Name: Norfolk Southern	Railroad Division: Lake		Branc Name	h/Line New Castle :
Nearest RR Timetable Station: Eaton			RR Milepost: 5	8.1
On-Site Review Team				$(x_0, x_0, x_0) = (x_0, x_0, x_0)$
(min s) (min s				
(Include: Name - Organization - Phone Number	r – Email)			
1	de add	9	69mmm 1 4	1 uiles
2. SEE ATT	NCHEU 5	16011-	LN SK	land har June
3				
4				· · · · · · · · · · · · · · · · · · ·
5				
6				WOL 14
7				
8				_
9				1915 1979 414171440
Existing Traffic Control Device				
Type of Warning Devices	Installe	d?	Ouar	ntity/Comments
Advance Warning Signs (condition?)	Yes	<u>u.</u> □ Nø	Quai	idey/Comments
'Stop' Signs	☐ Yes	IN <sub>0</sub>		
'Stop Ahead' Signs	Yes	☑No.		
Pavement Markings (condition?)	Yes	ŪN₀		
Crossbucks	<b>1</b> √Yes	□ No.		
Number of Tracks Signs	☐ Yes	<b>₽</b> 1√10		
Inventory Tags	₽ Yes	□No		
Interconnected Highway Traffic Signal	Yes	Ū√No		
Mast-Mounted Flashing Lights	1 Yes	☐ No		
Cantilever Flashing Lights	Yes	D-Mo	Number:	Length:
Side Lights	☐ Yes	11/No		
Automatic Gates	Yes	₩Yo.	Number:	Length:
Bells	Yes	₩ No	Number:	
Sidewalk Gate Arms	Yes	□ Kýg	No BELL	
'No Turn' Signs	☐ Yes	Ω/No		
Illumination	Yes	☐ No	ONE STREE	TLIGHT: SE QUAL
Is crossing flagged by train crew?	Yes	☐ No		
Other	☐ Yes	□ No		

## EATON- NS Diagnostics 8/24/2017

614 644 0313 Cathy Stout ORDC Catherine stout @ dot. chias Stephen Klinger NS 404 617 5450 Stephon Klingar enscorp com ICATEUR WIMDERLY N 404 582 5295 CAYBLA WIMBERLY ON XORP CON LON DAMPON ORDE 619 9178466 don dam ronfoldet, obio, gov SUSAN KIRKLAND ORDC 614.644.0286 JUSAN KIRKLAND ORDC 614.644.0286 SUSAN, KIRKLANDE dot.
Jim Wentzel US 219-670-3919 Janes Hestato 05 copy con detelbattacestamenta CASSY TAUSSIT E.S(N) 419.147.1845 Loeferriel C'kyoteston 135 4125 Sterviella City of Enton. org Brad Collins City of Boton 466-4125 bcdlins Ocity of enlaw.org Keith Wilson Peco

Safety Data (Obtain crash reports, if possible, prior to review)					
Initial Information (from database) Revised			Revised		
Number & dates of crashes in previous 5 years	0 (12/04) 8 /23/17				
Hazard Ranking	<del>10</del>	73 1750	Date Run: 8/5/2017		
Railroad Data					
Railroad Characteris	tics	Initial Inform	ation (from database)		Revised
Total trains per day		28			
< I per day					V
Day thru trains		12		F	
Night thru trains		14			, ,
Daytime switching moveme		2			
Nighttime switching movem	ents	0			
Total number of tracks		1	-n-x		- 10 HE 10 H
Number of main tracks		1			
Number of other tracks		0			
Maximum train speed		30			
Typical train speed Amtrak		30			
2004 St. 50 M. VS 6				Λ /	
If non-gated crossing, is clearing	g sight distan	ce adequate in all	quadrants? (See Table 1)	Yes [	No
If multiple tracks, can two train	s occupy cro	ssing at the same	time? Yes No		
Can one train block the motor	ists' view of	another train at c	rossing? 🔲 Yes (Explain be	elow) (7	No
Can one or more tracks be elim	ninated thro	ugh the crossing?	Yes No	4	
Are there other track(s) crossi		roadway within I	00 ft of this crossing?	Yes N	0
If yes, Crossing DOT #(if di		i i	- i	,	
If yes, distance	(take mea	isurement betwee	en track centerlines at close	est point alon	ig roadway)
Roadway Data	位置与24 /集工				
Local Highway Authority:	City of Eaton				
Roadway Characteris	tics	Initial Inform	ation (from database)		Revised
Average daily traffic		t253 (2013)	466 (2015)	OK	
Highway paved		X Yes	No	☐ Yes	☐ No
Roadway Surface: DBlacktop Gravel Concrete Other					
Roadway width: 40 ft.					
Number of highway lanes		2			
Urban or Rural		Urban			
Vehicle Speed: <u>25</u> MPH					
School Bus Operation: No (XYes) 1 Amount BUJES ON MAPLE NOT HIGH ST					
Hazardous Materials Trucks: No Yes <u>.03</u> Amount					
Shoulders: No Yes					
Is the shoulder surfaced? No Yes					
Is there existing guardrail along roadway in crossing vicinity? [INO Yes					
Is stopping site distance adequate? (See Table 2) Yes No If no, deficient approach(es)					

Quadrant 🥱 🚧 Curb and Gutter:	Quadrant / Curb and Gutter:			
Functional (Curb height = 4" or more)	Functional (Curb height = 4" or more)			
Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")			
│ None	None			
Pedestrians: No Yes				
Is sidewalk present? No Yes				
Is there a nearby intersection that could cause queuing over the co	rossing? No Yes			
If yes, Distance 50 APPROXIMATERY				
Is this intersection signalized? No Yes				
Are the signals currently interconnected with the existing crossi	ng warning devices? No Yes			
Is there a 'Do not Stop on Track' sign?	V			
Is a roadway improvement project (e.g. widening, turn lanes, nearly location in the foreseeable future? No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this			
If yes, Improvement typeLead Agency	Timeline/completion -			
Is in the game and the Diagnachie Barday, Team that this is a se				
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	otential closure project: No Yes			
Type of Development				
Open Space Institutional Location of nearby	r schools;			
	SIDE OF TOWN			
Residential				
Utility Information				
Is commercial power available? No				
Utility Provider (Company Name)	Phone Number			
Nearest Available Power Source				
What other utilities are present?  Gas Cable	Telephone Fiber Optic Cable			
(add locations to sketch) Petroleum Water Other	Sanitary Sewer			
Is(are) there potential utility conflict(s) Yes No ( Unknown				
Comments:				
· No Ours				

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
NA
Crossing Consolidation or Closure:
CORRIDOR AGREEMENT
CORKIDOR MOREHENI
Real Estate or ROW:
NA
$\mathcal{N}^{\mathcal{N}}$
Culverts / Drainage / Ballast Conditions:
NA
Roadway and/or Sidewalks:
CONCRETE WORK MAY BE NEEDED.
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
040 AMPLROSSING CONTROLES - 1980 5
« REDULDENT 3000 UNIT
INO RECORDER
Environmental:
WA
Other:

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	2 BELLS
Upgrade circuitry / type	
Sidelights	FOR RESIDENTIAL LOT IN NIN QUE
☐ Guardrail Needed	The state of the s
Install/Replace curb	
Bungalow placement & offset from rail & highway	SAME LOCATION
Other (define)	
Comments:	
ALL NEW INSTRUCTION.	CORRIDOR CONSTRUCTION.
TIMING LONTINGENT UPON	CORRIDOR CONSTRUCTION.
Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define) 1/PSRADES CONTIA	GENT UPON CORRIDOR
A day of the same	A B B B B B B B B B B B B B B B B B B B
Acknowledgement of Recommendations (each entity représented	2 FUNDING ARRANGEMENTS
acknowledgement):	
Field Dimensions	
	POSSIBLE SIDELIGNIS FOR DRIVEWBY
Sidewalk Show North Direction	BUT INVESTIGATE
Parkway	POTENTIAL CLOSURE
	OF RESIDENTIAL
Roadway	
	DRIVEWAY
_ <del></del>	
, 🗔	
Roadway	
Parkway	
, , , , , , , , , , , , , , , , , , , ,	
Sidewalk	
<del>                                     </del>	

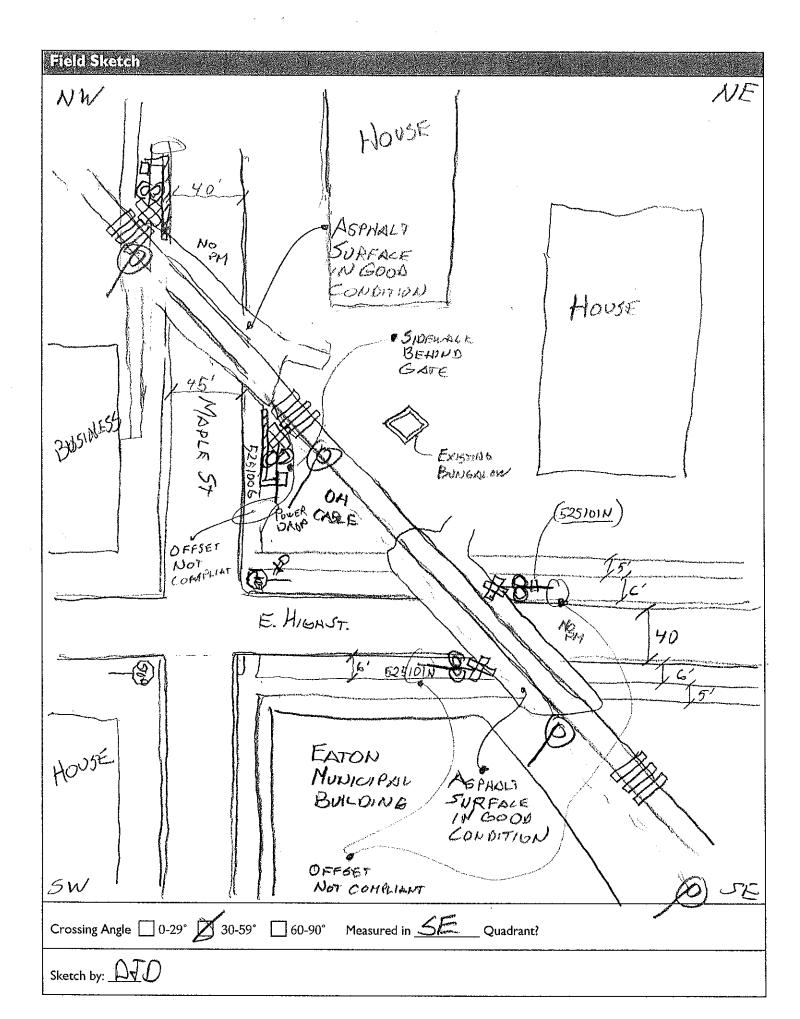


Table i

#### **Clearing Sight Distances**

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160
1	

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

#### Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Table 2

#### **Stopping Sight Distances**

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	(180)
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

#### Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

# This foregoing document was electronically filed with the Public Utilities Commission of Ohio Docketing Information System on

7/27/2022 3:36:36 PM

in

Case No(s). 22-0732-RR-FED

Summary: Application In the Matter of a Request for the Upgrade of Active Warning Devices at the Norfolk Southern Railway Grade Crossing, DOT# 525-100G at N. Maple Street in Preble County, Ohio. electronically filed by Mr. Thomas Persinger on behalf of PUCO/Rail Division