Memo

To.	Dookoting	
To:	Docketing	DIVISION

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 9/8/17

Re: PUCO Case No. 17-1965-RR-FED- In the Matter of a Request for the Installation of New Active Warning Devices at the Norfolk Southern Railway Crossing, 66th Street DOT#524-734A, in Hamilton County, Ohio.

On August 7, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway to install lights and gates at 66th Street DOT#524-734A, in Hamilton County, Ohio. The crossing was surveyed on 9/27/13 and found to warrant the upgrades. The electric utility provider for this crossing is Duke Energy.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$359,863.00 have been approved. Construction may commence at once. Staff requests a Finding & Order with completion of the project in 15 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 Stephen Klinger Public Projects Engineer 1200 Peachtree Street NE Atlanta, GA 30309-3597

Norfolk Southern Railway Company Cayela Wimberly Director Grade Crossing Safety 1200 Peachtree Street NE Atlanta, GA 30309-3597

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

Ohio Rail Development Commission Cathy Stout Safety Manager 1980 West Broad Street Mail Stop #3140 Columbus, Ohio 43223

City of Cincinnati Mayor John Cranley 801 Plum Street Cincinnati, Ohio 45202

Duke Energy

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:	Randall Schumacher, Supervisor, Rail Division, PUCO
FROM:	Cathy Stout, Manager, Safety Section, ORDC
BY:	Greg Gronbach, Project Manager, Safety Section, ORDC
SUBJECT:	Revised Hamilton County – 66 th Street, DOT # 524734A, PID # 100180
DATE:	August 7, 2017

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on 09/27/2013. 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 approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. 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.

Athon Greg Gronbach

Project Manager

Attachment: Diagnostic Review Plan & Estimate

c: Jill Henry, PUCO Susan Arduni, ORDC ORDC Project Manager (file)



August 7, 2017

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

RE: Addendum Construction Authorization Hamilton County, 66th Street Elmwood Place, DOT# 524734A, PID# 100180

Dear Mr. Klinger:

With reference to construction authorization issued March 6, 2017 reimbursement of eligible actual cost is limited to \$359,863.00. 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 letter is here as an addendum the original construction authorization submitted on March 6, 2017.

Thank you for your assistance with these matters.

Sincerely,

g Gronbach Project Manager

Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO Jill Henry, Rail Division Specialist, PUCO Susan Arduini, ORDC ORDC (file)





March 6, 2017

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

RE: Hamilton County – 66th Street, DOT #524734A, PID# 100180

Dear Stephen:

The plan and estimate dated October 29, 2015, for the referenced project has been reviewed and is acceptable. Norfolk Southern Railway Company 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 \$265,000.00. 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 Railway Company accepting the following instructions:

- 1. Norfolk Southern Railway Company's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Greg.Gronbach, ORDC, email <u>Greg.Gronbach@dot.ohio.gov</u>, and to the Public Utilities Commission of Ohio at <u>Jill.Henry@puco.oh.gov</u>. Norfolk Southern Railway Company'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. Norfolk Southern Railway Company 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 Norfolk Southern Railway Company.
- 3. Norfolk Southern Railway Company's project foremen will notify Greg Gronbach at 614-395-1824(telephone) or <u>Greg.Gronbach@dot.ohio.gov</u> (email) 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.



- Open cut of roadways is *not permitted* except in unusual circumstances and must be 4. coordinated with the local highway authority and preapproved by ORDC.
- Norfolk Southern Railway Company will furnish two (2) copies of each partial bill to 5. ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- Norfolk Southern Railway Company will furnish two (2) copies of the final all-inclusive 6. 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.
- 7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

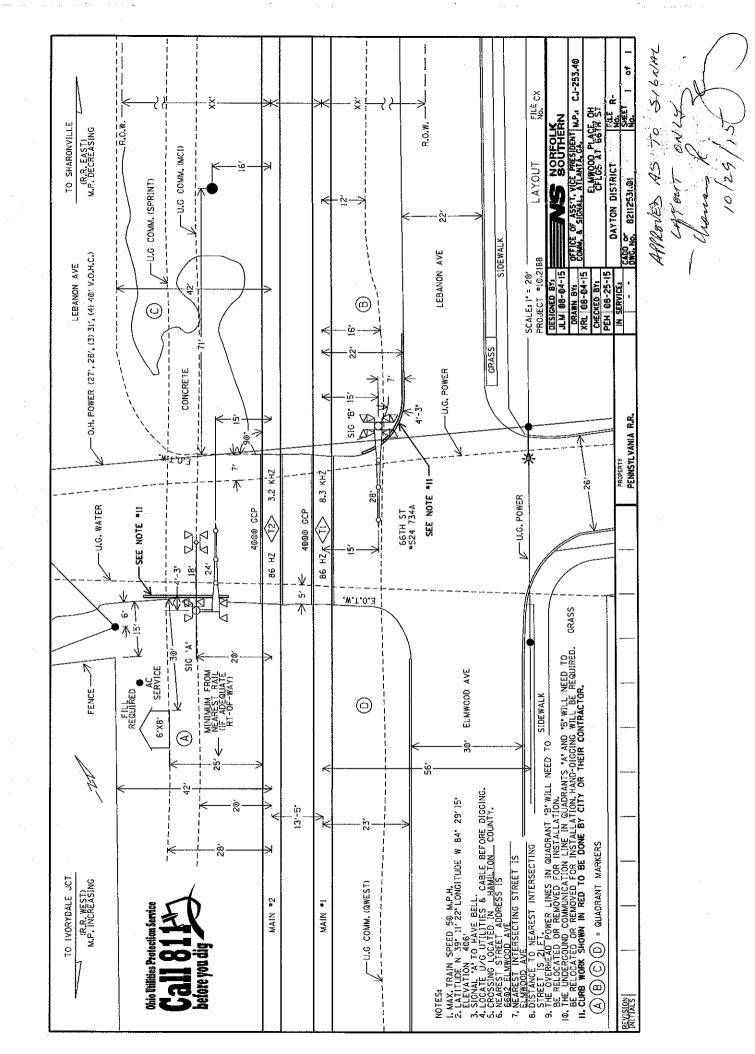
Thank you for your assistance with these matters.

Sincerely,

Awh

Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO George Martin, Grade Crossing Planner, PUCO Susan Arduini, ORDC ORDC (file)





Round Figure Estimate for Grade Crossing Warning Devices

City/State: ELMWOOD PLACE, OH

MilePost: CJ-253.4 State Proj. No.: PID# 100180

S&E Proj. No.: 10.2188

Man Days: 192

Road: 66TH ST DOT/AAR: 524734A County: HAMILTON File Number:

P	urchases - Others	
Meals and Lodging:	\$25,804.80	
Rental of Equipment:	\$26,880.00	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 32 Days)		
Construction Supervision Vehicle	\$4,803.35	
Purchases - Other Total		\$57,488_15
Ma	terial And Additives	
Material Cost	\$138,219.00	
Sales and Use Tax:	\$0.00	
Material Handling Freight	\$6,910 94	
Material Total		\$145, 129 94
La	bor And Additives	
Labor Cost	\$53,760.00	
(6 man crew at \$1,680.00 a day fo	pr: 32 days)	
Payroll Tax & Overheads:	\$71,414 .78	
Preliminary Engineering	\$16,894.14	
Construction Supervision:	\$15,176.45	
Labor Total		\$157 ,245 .37
	Project Cost	\$359,863.46
	Scrap / Salvage Credit	\$0.00
	Project Total:	\$359,863.00

Estimated on. 29-Oct-15

Estimated by: ndney

Estimate valid for 1 year from date of estimate



Norfolk Southern Railway

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<u> Highway Crossing Signalization Program - Material Lis</u>t

Do not substitute items without permission from S & E Engineering

City: ELMWOOU PLACE Road: 66TH ST Road: 66TH ST Mile Post: CJ-253.4 Drawing Number: 82112531 State ProjectNumber: 82112531 State ProjectNumber: PID# 100180 County: HAMILTON A R Number: 712531 Project Number: 10.2188 File Number: 524734A New File Number: 524734A Store Number: 70.2188 Store Number: 70.2188 New File Number: 70.2188 Store Number: 70.2188 Store Number: CX1111387 VBS: F-02521 Store Number: CX1111387 Vendor to supply the following copies after pricing: Vendor to supply the following copies after pricing:	ity: oad: lile Post: rawing Number. tate ProjectNumber. ounty: A R Number: ounty: A R Number: roject Number: ile Number: dore Number: tore Number: ax Code endor to supply the fo
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	City:

Thursday, October 29, 2015 12:39 PM

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Thursday, October 29, 2015 12:39 PM

APPROVED BY STATE

Page: 2 of 5

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APPROVED BY RAILROAD

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670-698491-4 EA \$35,113.24 \$35,113.24 670-477991-4 EA \$410.00 \$410.00	EA	\$387.95	\$387.95 (\$387.95 GATE ARM, ALUMINUM, 25-31 FT, ARM ASSEMBLY, INCLUDES GATE GUARD FOR GATE LIGHT CABLE. HIGH INTENSITY VERTICAL STRIPES.	ARM ASSEMBLY, INCLU ABLE, HIGH INTENSITY	JDES						
670-477991-4 EA \$410.00 \$410.00	ЕA		35,113.24 (E	 \$35,113.24 GCP4000 - 2 TRK (2TC) - REDUNDANT - 40/60 AMP WIRED RACK EQUIP FOR 6X8 XING SHELTER, (INCL. 2 TRK CHASSIS A80465, 4 TRK MODS. A80418, 2-SSCC A80405, 2 CPU A80403, 1 SEAR A80410, 1 DISPLAY A80407, 1 TRANS MOD. A80468, 1-40 & 1-60 AMP CHARGER) IPN 003131- 	CC) - REDUNDANT - 40/60 AMP WIRED RACK IG SHELTER, (INCL 2 TRK CHASSIS A80465, 8, 2-SSCC A80405, 2 CPU A80403, 1 SEAR 480407, 1 TRANS MOD. A80468, 1-40 & 1-60 t 003131-	0 RACK 480465, EAR 1-60						
	7991-4 EA	\$410.00	\$410.00 F	KIT, GROUNDING ASSY FOR AL I/S INCLUDES 8 GRD RDS,200#4WIRE,12 4 WIRE ONE-SHOTS. ERICO SBK206	S INCLUDES 8 GRD SHOTS. ERICO SBK206	1						

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Store	Store No.: S803				P.O.Numberi Date Required D	Date Shipped		Ve	Vendor		
Đ.	Class-Item-CD	5	Price per Item	Total Price	Item Description	Quantity Shipped		Quantit Date D Quan. Q	Quantity Installed Ite Date Date an Quan Quan.	Quantity Returned (Credit)	Special Instructions
5	670-123298-4	5	\$361.54	\$361.54	KIT, HARDWARE SUPPLIES REQUIRED X'ING P'CKAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS, P'GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, INE CAN BLUE MARKING PAINT ETC.						
2	670-092155-4	£	\$160.00	\$320.00	\$320.00 LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) REC # 9298- 1120	298-					
2	670-005055-4	EA	\$955.23	\$1,910.46	LAMP ASSY, LED 12" MAST 1 WAY BACK LIGHTS (FRONT ON COMBO CANT) (IPN 042003-L481XNS)	N		 .			
7	670-005057-4	Ч	\$952.05	\$1,904.10	LAMP ASSY, LED, 4" CANT JURY ARM MAST (FRONT OR BACK) (IPN: 042003-L001534)	CK)					
-	670-005066-4	E E	\$959.37	\$959.37	LAMP ASSY, LED, 5" MAST 1 WAY BACK LIGHTS (IPN: 042003- L001493)	е d					
~	670-005058-4	Ę	\$1,786.08	\$1,786.08	\$1,786.08 LAMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003- L487XNS)	2003-					
.	670-005062-4	5	\$1,773.52	\$1,773.52	LAMP ASSY, LED, 5° MAST BACK TO BACK SIDELIGHTS (IPN 042003-L000631)		<u></u>	 	 		
ဖ	255-590880-4	Ē	\$17.52	\$105.12	LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						
4	670-483458-4	≦	\$6,487.56	\$6,487 56	MAST, 12° CANTILEVER/GATE COMBO, FOR 12'-20' WT/F ARMS, GATE OFFSET TOWARD TRACK, INCL. LADDER KIT (IPN: 071292 -20NS)	RMS, 1292					
-	670-182404-4	Ę	\$1,916.41	\$1,916.41	MAST, 5" ALUMIMUM 22', (0&0) RIGHT, FOR SIDELIGHT HOLE 90, W/ DBL JCT BOX BASE, SAFETRAN #070519-X603	E 90					
2	670-875060-4	EA	\$2,596.32	\$5,192.64	MECHANISM, GATE MODEL S-60, WITH DEFROSTER, WITHOUT MINI TRACKSIDE SENSOR STRAN # 0740007-X002A3	IOUT	_				
~	670-00023-4	EA	\$30,000 00		\$30,000 00 MISC EXPENSE, DOT PROVIDED EST FOR ROADWORK TO BE COORDINATED AND INSTALLED BY ROADWAY AUTH AND/OR ITS CONTRACTOR(S). CONTRACTOR INVOICE PAYABLE BY NS, REIMBURSABLE BY DOT UNDER AWD PROJ, NO NS COORDINATION OR PERFORMANCE OF WORK TO BE DONE BY NS	BE OR Y NS, E BY					
-	000-00000-4	EA	\$5,000.00	\$5,000.00	\$5,000.00 MISC. EXPENSE, UNDERGROUND BORING						
7	670-001355-4	5	\$74.00	\$148 00	PACKAGE, HARDWARE SIGN 12 IN (USE WITHWT/F MAST) MOUNTING, SERRMI A1250-8, HARMON @180004/0007,						

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Store No. 3803 F. P. Number Date Required Date Simpled vendor Xorall Cby Class-lam-CD U priftion Total Prive Admitty insafiled Admitty insafiled Admitty insafiled Admitty insafiled 2 670-0013474 EA \$5111 S1113 S1114 Prive Admitty insafiled Admitty	Local	Location ELMWOOD PLACE	1 - P 12			н	S&E Proj No 10 2188	AFE No F-02521	Drawing	Drawing No. 82112531	12531				
Class-Item-CD U Price prefie Togit Price Description Cuentry for an interface Cuentry for an interface	Store	No.1 S803					P.O.Number	Date Required	Date Sh	peddu		Vendor	Xorail		
670-001347-4 EA \$57.10 \$114.20 255-646807-4 EA \$31.19 \$31.19 255-646807-4 EA \$11.11 \$11.11 670-514605-4 EA \$11.11 \$11.11 670-514605-4 EA \$303.43 \$303.43 165-9020899-4 EA \$40.24 \$160.96 435-805560-4 EA \$40.24 \$160.96 435-805560-4 EA \$278 \$160.96 435-805560-4 EA \$517.0 \$11.11 670-113448-4 EA \$910.23 \$910.23 670-7493255-4 EA \$910.23 \$910.23 670-7493255-4 EA \$910.23 \$91.74.79 670-755523-4 EA \$97.744.79 \$9.744.79 670-755523-4 EA \$9.744.79 \$9.744.79 6	Q.	Class-Item-CD	5	Price per Item	Total Price	Item De	scription			Quantity Shipped	Qua Date Quan.	ntity Inst Date Quan.	alled Date Quan.	Quantity Returned (Credit)	Special Instructions
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670-514605-4 EA \$11,11 165-902002-4 EA \$303.43 465-002899-4 EA \$40.24 465-002899-4 EA \$278 455-002899-4 EA \$910.23 670-113448-4 EA \$910.23 670-113448-4 EA \$910.23 670-749325-4 EA \$90,744.79 \$6 670-755523-4 EA \$90,744.79 \$6 670-7586967-4 EA \$90,744.79 \$6 670-5586967-4 EA \$90,744.79 \$6 670-55633-4 EA \$575.56 \$5 670-554843-4 EA \$577.05 \$670.23 670-554843-4 EA \$77.05 \$670.23 670-554843-4 EA \$149.68 \$670.330382-4 \$149.68 670-330382-4 RL \$18.06	-	255-646807-4	Ē	\$31.19	\$31.19		CK, SAFETRAN PART NO.	030399-29X SCREW TYI	PE FOR		2				
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435-805600-4 EA \$2.78 \$5.56 SAND, 25LB BAG FO 670-113448-4 EA \$910.23 SERTIAN P/N A802 670-749325-4 EA \$226.97 SHELF, FOLDING, FC 670-749325-4 EA \$9.744.79 \$226.97 SHELTER, 6'X8' ALU 670-755523-4 EA \$9,744.79 \$9,744.79 SHELTER, 6'X8' ALU 670-566967-4 EA \$9,744.79 \$9,744.79 SHELTER, 6'X8' ALU 670-586967-4 EA \$9,744.79 \$9,144.79 SHELTER, 6'X8' ALU 670-586967-4 EA \$42.98 \$171.92 SHUNT'COVER W/L 670-645460-4 EA \$575.66 \$14.40 SHOR \$670-5397394	4	465-002899-4	EA	\$40.24	\$160.96	REEL, (CABLE DISPOSABLE FOR (CROSSING SIGNAL PAC	KAGES	3 har? 11					
670-113448-4 EA \$910.23 \$\$910.23 \$\$910.23 \$\$910.23 \$\$910.749325-4 EA \$\$910.23 \$\$974.79 \$\$975.51 \$\$975.51 \$\$975.51 \$\$976.570.000 \$\$0000 \$\$00000 \$\$0000 \$\$0000	2	435-805560-4	EA	\$2.78	\$5.56	SAND,	25LB BAG FOR CABLE ENT	TRANCE INTO THE SHE	TER			•			
670-749325-4 EA \$226.97 \$FELF, FOLDING, FC 670-749325-4 EA \$9,744.79 \$274.79 \$AFELTER, 6'X8' ALU 670-755523-4 EA \$9,744.79 \$9,744.79 \$SHELTER, 6'X8' ALU 670-755523-4 EA \$9,744.79 \$9,744.79 \$SHELTER, 6'X8' ALU 670-755523-4 EA \$9,744.79 \$9,744.79 \$SHELTER, 6'X8' ALU 670-586967-4 EA \$42.98 \$171.92 \$HUNT COVER WIL/ 670-645460-4 EA \$575.66 \$2.302.24 \$HUNT, MULTI-FREC 670-397239-4 EA \$577.05 \$2.046 \$IGN CROSSING MA 670-554843-4 EA \$577.05 \$164.10 \$214.10 670-554843-4 EA \$77.05 \$154.10 \$216N.2.104 670-016346-4 EA <t< td=""><td>-</td><td>670-113448-4</td><td>Ā</td><td>\$910.23</td><td>\$910.23</td><td>SEARIN</td><td>(, VHFC w/ANTENNA) - VF RAN P/N A80276, 1/ PER CF</td><td>HF COMMUNICATOR, ROSSING</td><td></td><td></td><td>8 (i</td><td></td><td></td><td></td><td></td></t<>	-	670-113448-4	Ā	\$910.23	\$910.23	SEARIN	(, VHFC w/ANTENNA) - VF RAN P/N A80276, 1/ PER CF	HF COMMUNICATOR, ROSSING			8 (i				
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670-645460-4 EA \$575.56 \$2. 670-397239-4 EA \$40.23 670-554843-4 EA \$77.05 \$ 670-016346-4 EA \$7149.68 \$ 670-0163382-4 RL \$18.06 \$	4	670-586967-4	EA	\$42.98	\$171.92		COVER WILAG SCREWS, 1 PER SHUNT	19"X19", SERRMI #4027	E C						
670-397239-4 EA \$40.23 670-554843-4 EA \$77.05 \$ 670-016346-4 EA \$149.68 \$ 670-0330382-4 RL \$18.06	4	670-645460-4	EA	\$575.56	\$2,302.24	I SHUNT	, MULTI-FREQ. #62775-862	1 SAFETRAN NARROW	BAND						
670-554843-4 EA \$77.05 \$ 670-016346-4 EA \$149.68 \$ 670-330382-4 RL \$18.06	7	670-397239-4	ĒA	\$40.23	\$80.46		ROSSING MALFUNCTION / RAN #T17216	ASSEMBLY FOR 12" MA	st,						
670-016346-4 EA \$149.68 \$ 670-330382-4 RL \$18.06	2	670-554843-4	EA	\$77.05	\$154.10	SIGN, 1	2 TRACK SIGN, HIGH INTEI	NSITY, SAFETRAN #035	207-						
670-330382-4 RL \$18.06	2	670-016346-4	EA	\$149.68	\$299.36	SIGN, ALL ST	X-BUCK, HI-INTENSIVE RE ATES, SAFETRAN# 035200	FLECTIVE FRT & BACK -91X	FOR						
	~	670-330382-4	ᆋ	\$18.06	\$18.06	STOP C	THOR 3" DURATEC, ORANC MGGING"	3E 1000' LENGTHS. "WA	RNING						

Total Material: \$138,218.82

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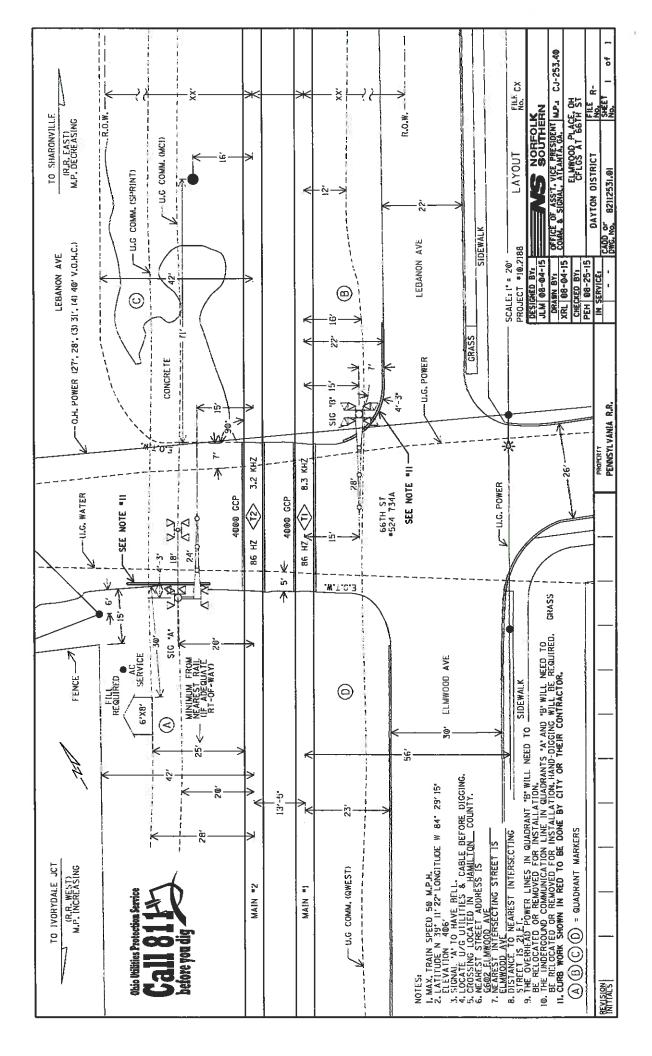
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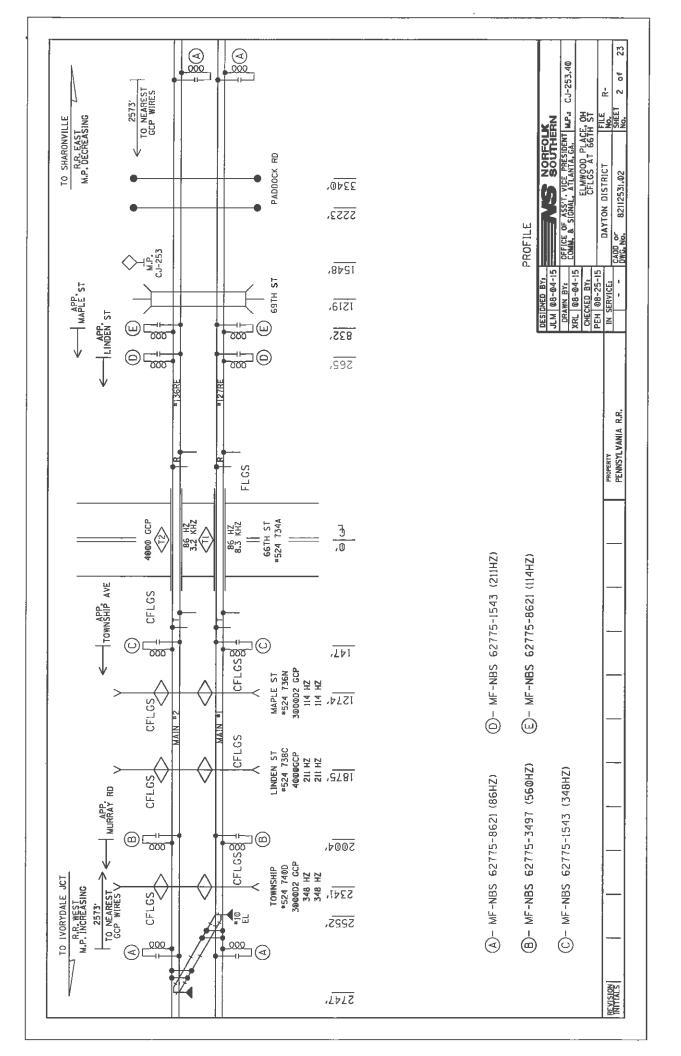
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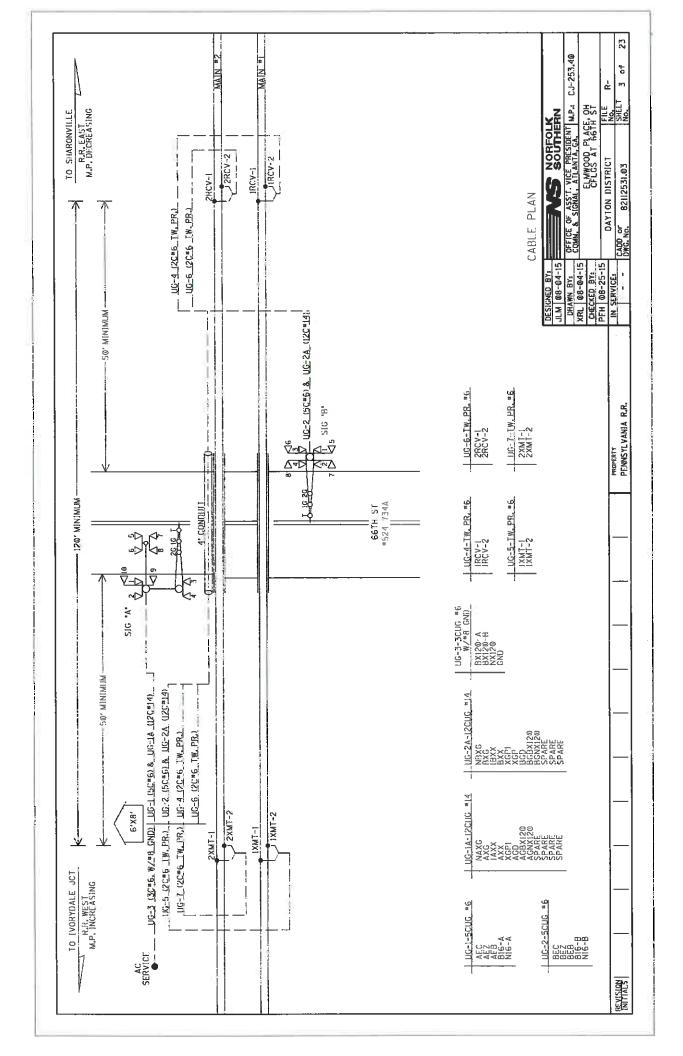
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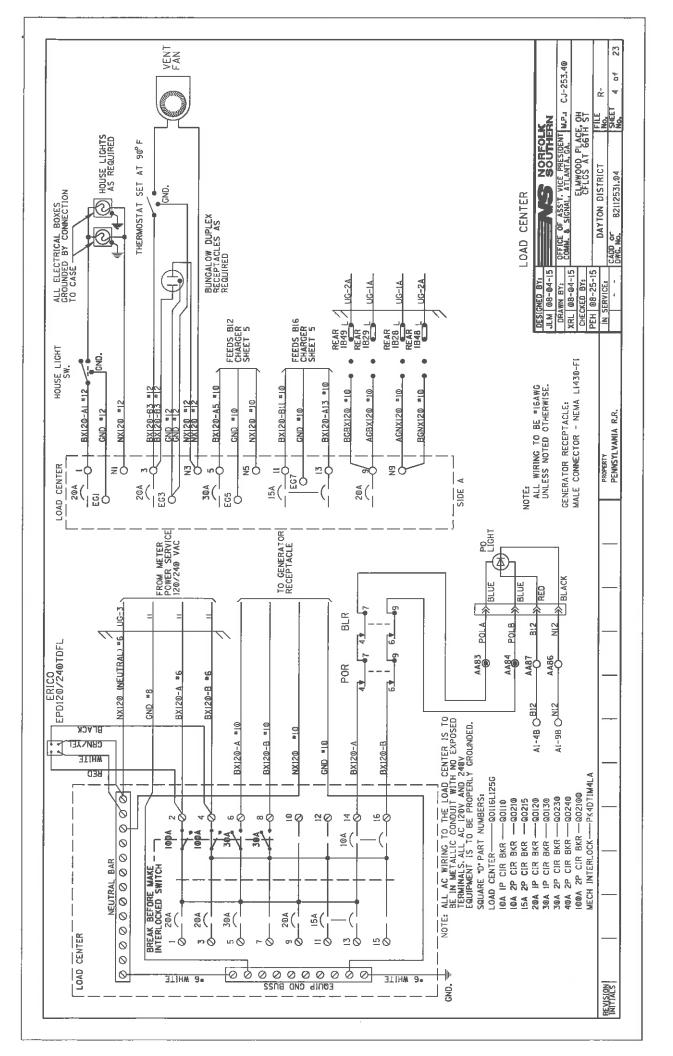
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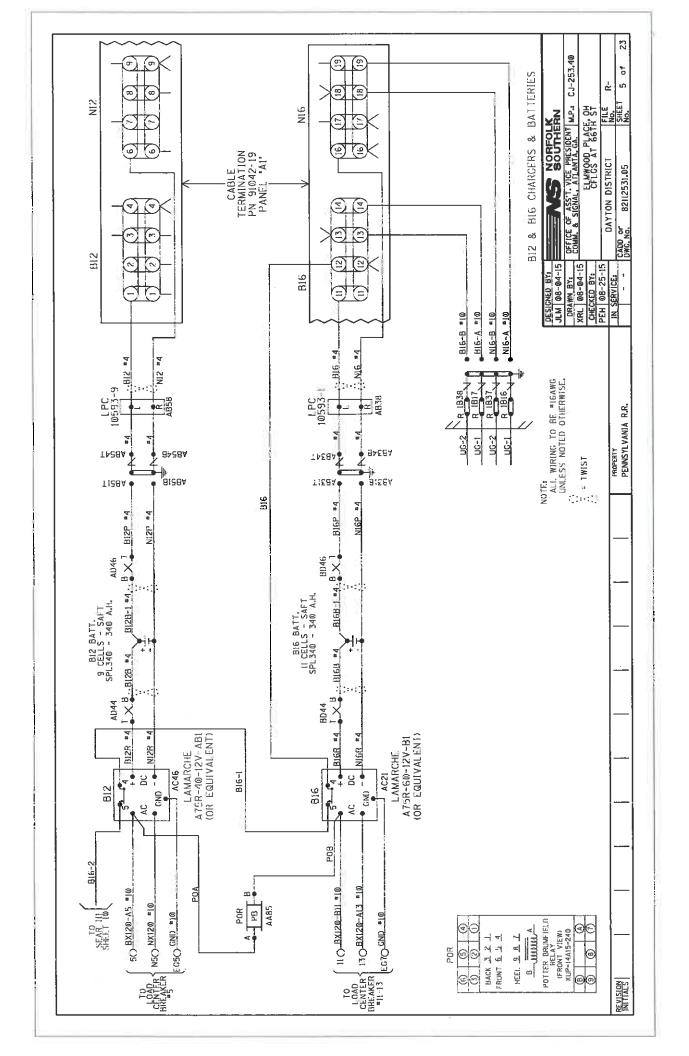
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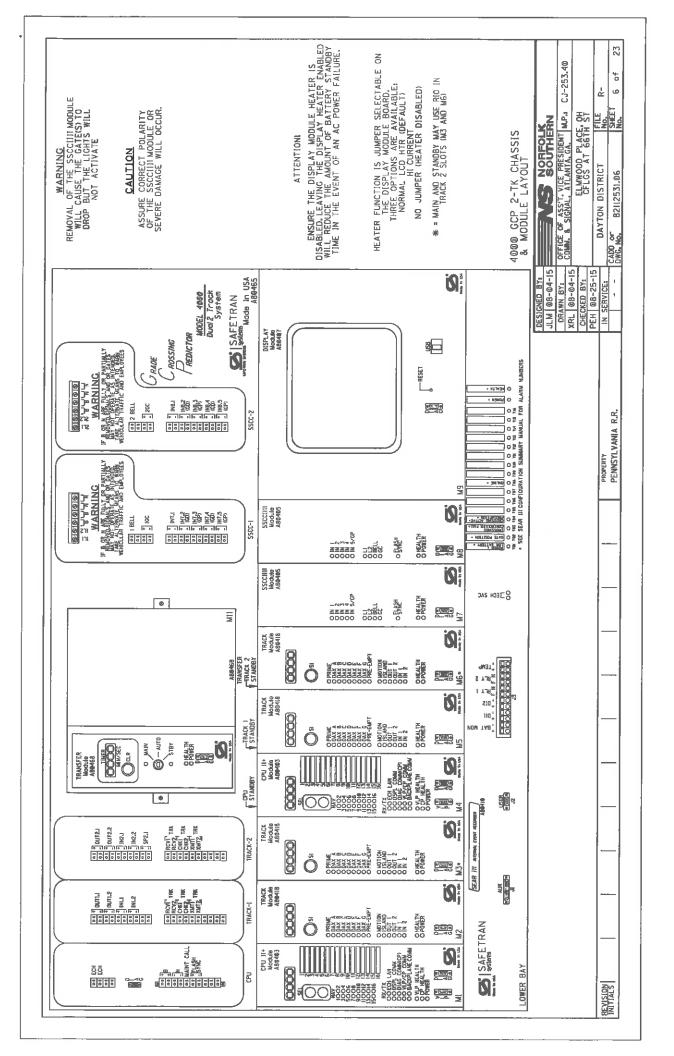






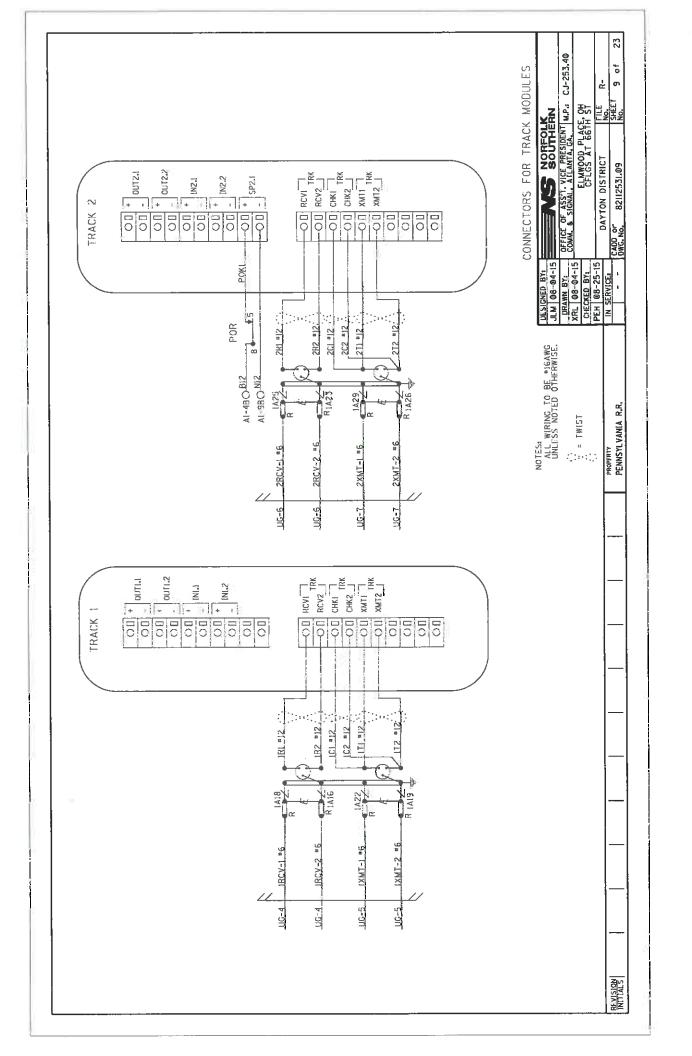


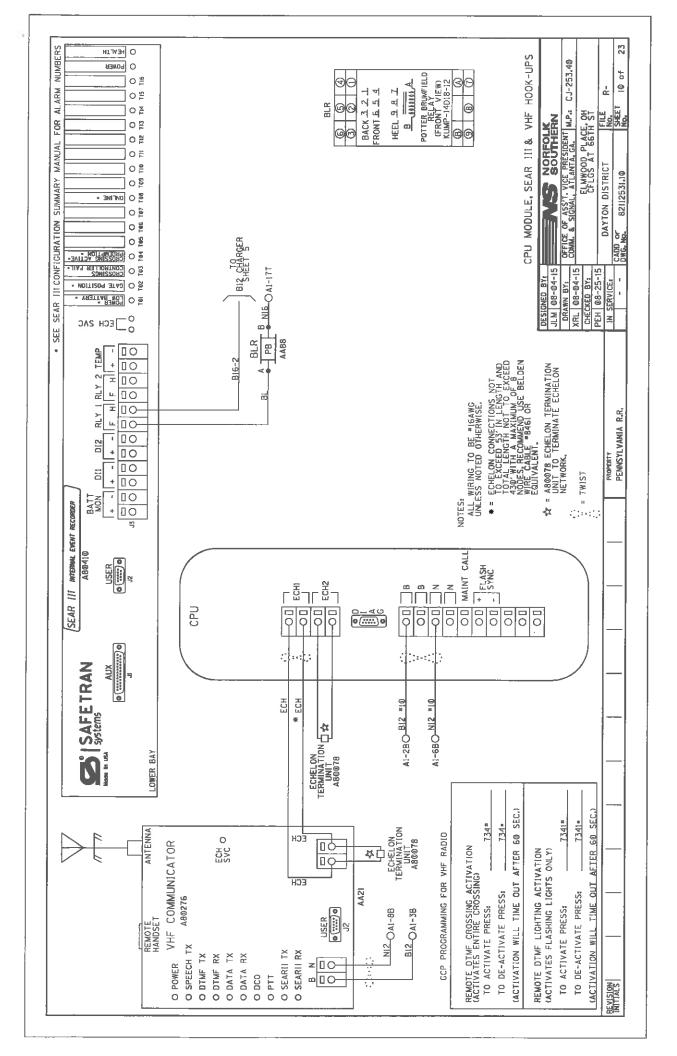




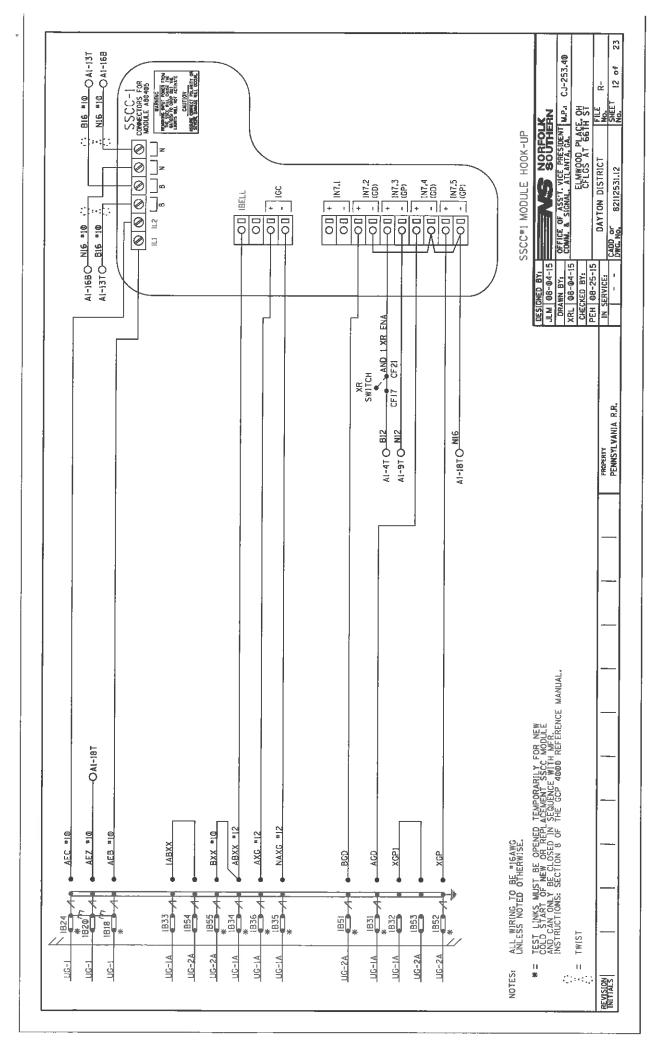
[SLAND: track 1 Track 1:181Frequency = 8.3 kHz Track 1:181Frequency = 8.4 × 0 Track 1:181Erach06 PL Used = No SLAND: track 2 SLAND: track 2 Track 2:181Frequency = 3.24 kHz Track 2:181Erach06 PP Used = No	AND: Frack Anding AND: Track Anding AND: Z Used = Yes AND: 2 Used = No AND: 3 Used = No AND: 5 Used = No AND: 5 Used = No AND: 7 Used = No AND: 7 Used = No AND: 1 XR Track 1 = Prime AND: 1 XR Track 2 = Prime	And I Endble Pickup = 5 sec AND I Fridble Drop = 0 sec AND I Wrop Used = No			4000 CCP PROGRAMMING SETUP SORFICE OF ASST. VICE PRESIDENT M.P., CJ-253.40 COMM. & SIGNAL, ATLANTA, GA. W.P., CJ-253.40 ELLANDA, ATLANTA, GA. THER O.	82112531.07 SHEET
GCP: track 2 Track 2: GCP Free Category = Standard Track 2: GCP Freeuency = 86 Hz Track 2: Approcend Distance = 2573 ft Track 2: UniVBJ/SIm-Bidrint = Bidrint Track 2: Listind Connection = 140 ft Track 2: Island Distance = 140 ft Track 2: Island Distance = 140 ft Track 2: Island Distance = 1999 ft Track 2: Computed Distance = 1999 ft	<pre>GCP: track 2 enhanced det Track 2 : Inhound PS Sensitively = 0ff Track 2 : Syeed Limiting Used = Yes Track 2 : Outbound Faise Act Lvia Normal Track 2 : Outbound PS Timer = 20 sec Track 2 : Trailing Switch Logic = 0n Track 2 : Trailing Switch Logic = 0n Track 2 : Adv Aphr Pradn = No Track 2 : ConcelPickup Deloy = This Isi CCP + track 2 : Drime Track 2 : Drime Track 2 : Drime</pre>	irock 2 : Swirch MS EZ Level 10 irock 2 : Prime MS GCP Mode = Pred Trock 2 : Prime Pickup Delay = 15 soc Trock 2 : Prime UAX = Not Used GCP: trock 2 pos start = 0ff Trock 2 : Positive Start = 0ff Trock 2 : Positive Start = 0ff Trock 2 : Sudden Shit Det Used = No	GCP1 + Frack 2 MS Control Frack 2 MS Sentrol Frack 2 MS Sentituly Fravel & Frack 2 MS Sentituly Fravel & Frack 2 Companisation Lavel = 1300 Frack 2 How K adjustment = 39 Frack 2 Filow Ex Adjustment = 39 Frack 2 Filow Ex Parisation - 80 Frack 2 Filow Ex On Fraction 2 Foo = No Frack 2 Filow Ext on Fraction Stop = No Frack 2 Filow Ext on Fraction Stop = No		4001	PROPERTY PENNSYLVANIA R.R.
<pre>GCP: frack Track 5CP freq Category % Standard Track 5CP frequency * 86 Hz Track Marchael 100 fractase = 2573 ff Track Marchael Bicktra Frack Marchael Bicktra Frack Island Conneation = [10] Frack Island Conneation = 140 ff Frack Island Distance = 140 ff Frack Island Distance = 140 ff</pre>	CCP: Track Lethonced def Track Linhound PS Sensitivity = 0+f Track Linhound False Act LWF Normal Track Linhound False Act LWF Normal Track Loutbound False Act LWF Normal Track Lioutbound False Act LWF Normal	Trock I: Switch MS: FZ Lovel: 10 Trock I: Prime MS: FZ Lovel: 10 Trock I: Prime MS: FZ Lovel: 10 Trock I: Prime Pickup Deuty = 15 sec Trock I: Prime UAX = Not Used GCP: trock I pos start Trock I: Posifive Start = 0ff Trock I: Posifive Start = 0ff Trock I: Low EZ Detection Used = No	GCP: track IMS Control Track I:MS/ACP Ctr1P Used = No Track I:MS/ACP Ctr1P Used = 0 Track I:MS/ACP Ctr1P 16vel = 0 Track I:Compensation Level = 1300 Track I:Compensation Comp = High Track I:Low IX Adjustment = 39 Track I:Bldin Dax Passithuu = No Track I:Bldin Dax Passithuu = No			
PREDICTORS, Frack 1 Track 1: Prime Used = Yes Frack 1: Drama Used = No Frack 1: Duar B Used = No Frack 1: Duar B Used = No Frack 1: Duar B Used = No Frack 1: Duar E Used = No Frack 1: Duar E Used = No Frack 1: Duar G Used = No Frack 1: Duar G Used = No	PREDICTORS: track 2 Trock 2 i Prime Used = Yes Trock 2 i Dax A Used = Ne Trock 2 i Dax B Used = No Trock 2 i Dax B Used = No Trock 2 i Dax D Used = No Trock 2 i Dax E Used = No Trock 2 i Dax E Used = No Trock 2 i Dax E Used = No					
Program Report Location and SIN DOT Number: 524734A Milepost Number: 6214 ST Milepost Number: 6674 ST	Mcr and Tamplate Salection Mcr and Tamplate Salection Mcr Name 5CP-T62-1.mcf McF Revision: 021-02-1.mcf McF Revision: 021-02-1.mcf McF Revision: 021-021.mcf McF Revision: 021-0.mcf Template = 14:6 Trk BI Chack Numbers Office Check No. (0T 4.6.0): IAABFFCI Office Check No. (0T 4.6.0): IAABFFCI	Contrig. Check Number: 194: 3492 (Based on MCF Revision 021) Program Abs.C: module configuration frack JStot = Irack Frack JStot = Not ised	Track 5/R10 2 Slot = Not Used Track 5/R10 2 Slot = Not Used Track 6/R10 3 Slot = Not Used SSCC-1 Slot = SSCC31 SSCC-1 Slot = SSCC31 SEAR Used = Yes BASIC: MS/GCP Operation = Yes Track 1:MS/GCP Operation = Yes	BASIC: island operution Track 1: island Used = internal Track 2 : island Used = internal BASIC: progmption Preempt Lagic = No Radio DAX links Used = No Radio DAX link B Used = No	BASIC: Vital Comms links Vital Comms link 2 Used = No Vital Comms link 2 Used = No	REVISION INITIALS

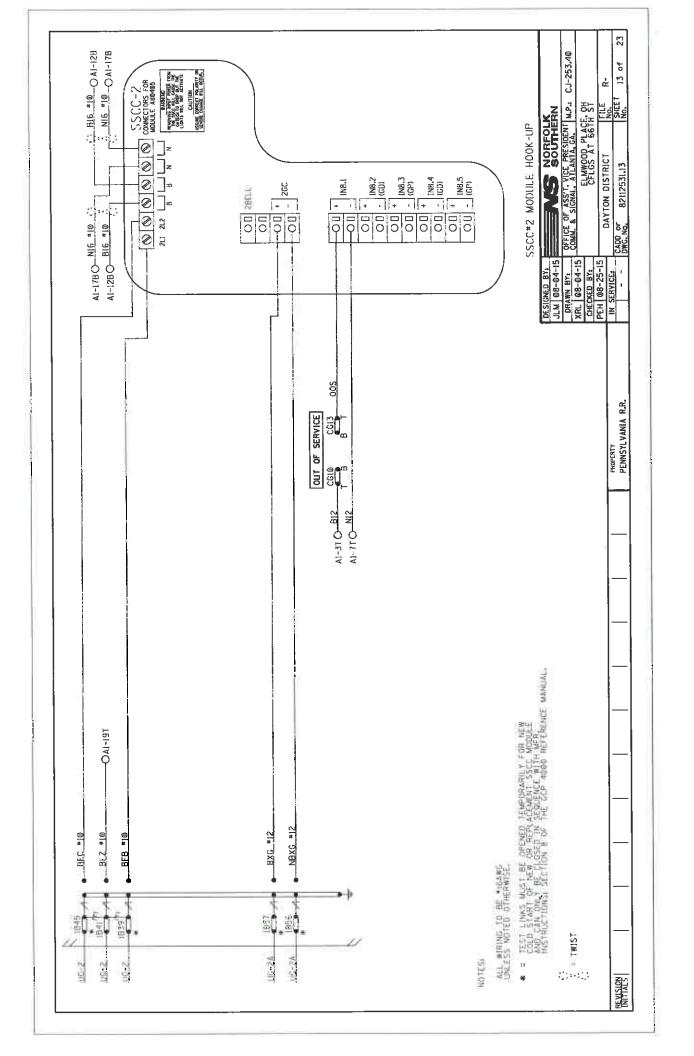
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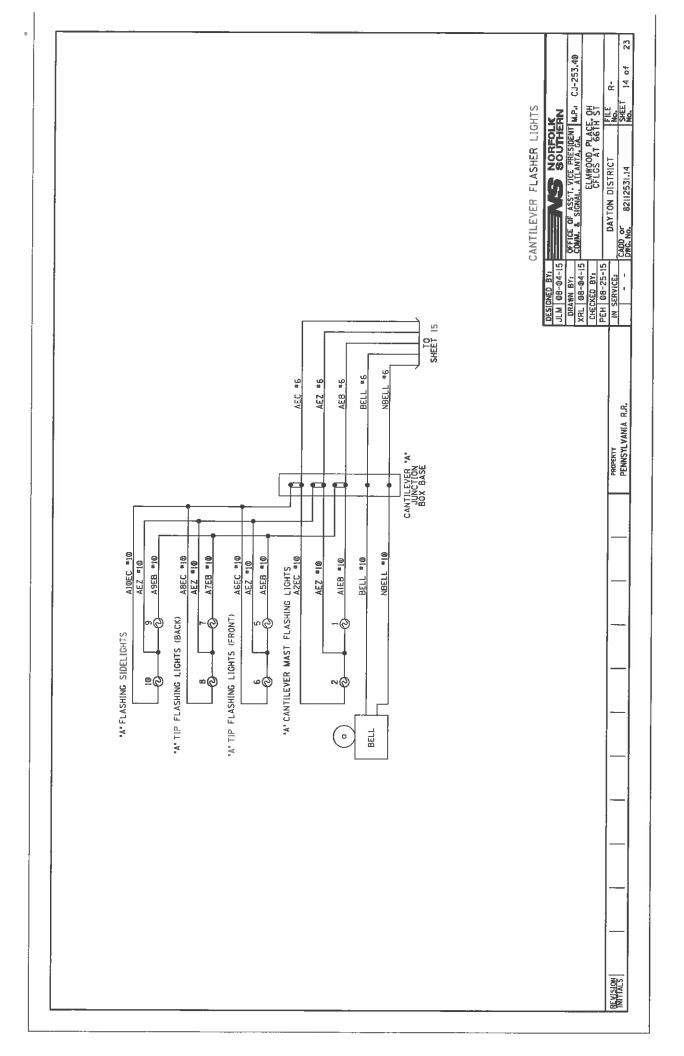


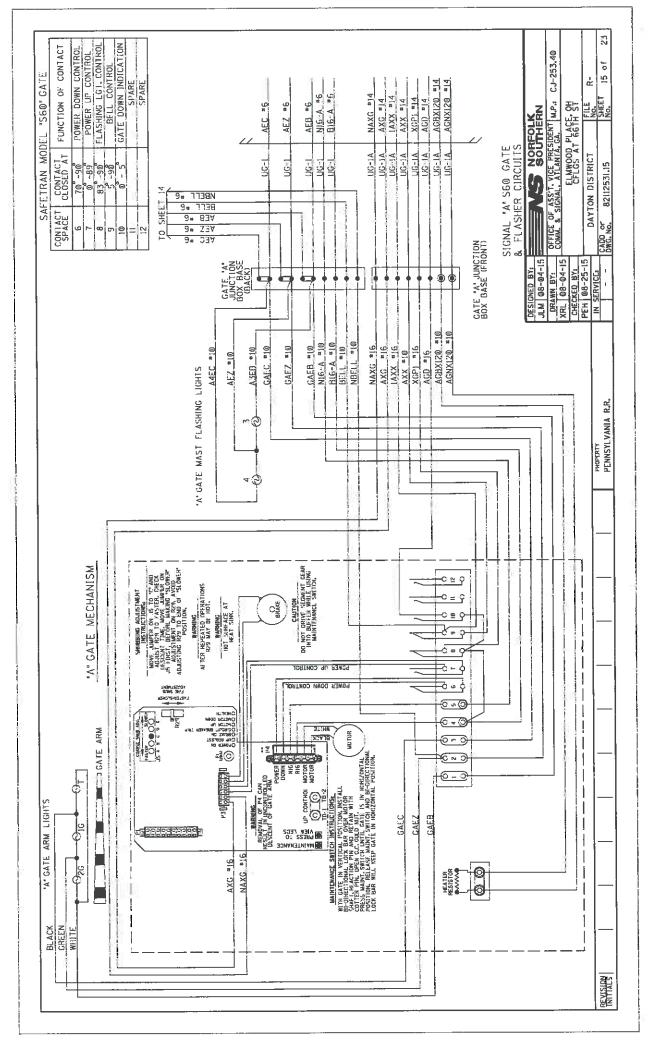


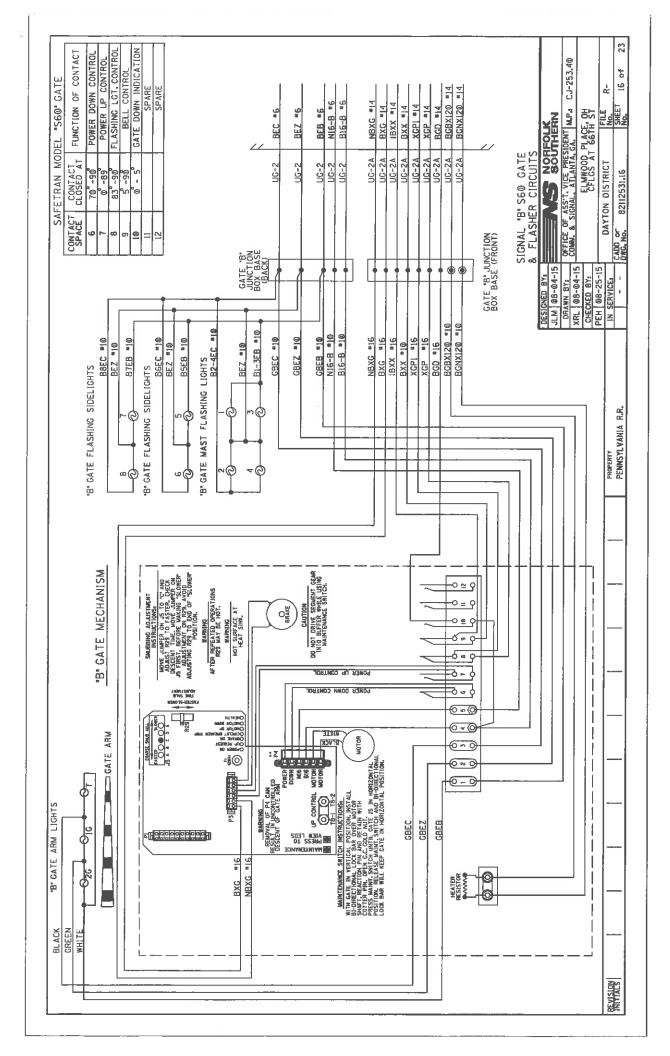
SITE SET UP PROCEDURE						
FUNCTION	LED DISPLAY	114		SELECT FROM MENUL OPTION		
DATE/TIME	C Martin C	RESET NAMES AND	ES AND MODULES?	YES		
AUTOMATIC DST ADJUSTMENT	YES	RAILROAD NUMBER	NUMBER	550		
TIME ZONE	EST	CROSSING	CROSSING CONFIGURATION	NORMAL		
SITE NAME 6	GGTH ST	AND 1 USED AS XR?) AS XR?	YES		
MILEPOST	CJ-253,40	AND 2 USED AS XR?	D AS XR?	NO		
s 101 *	524 734A	AND 3 USED AS XR?	D AS XR?	NO		
TESTER TYPE C	CROSSING	AND 4 USED AS XR?	D AS XR?	NO		
DATE FORMAT M	MM-DD-YYYY	AND 5 USED AS XR?	D AS XR?	NO		
20	FAHRENHLLY	AND 6 USED AS XR?	U AS XR?	NO		
INDICATE HOLD (SEC) 0		AND 7 USED AS XR?	D AS XR?	NO		
INDICATE REFRESH (SEC) 6	60	AND 8 USED AS XR?	D AS XR?	NU	PROGRAM MENU QUESTIONS PROGRAM	
SITE ATCS 7	7.550.234.096.03.01	XR CONTROLLED BY	DLLED BY FOREIGN RR		EDIT DIGITAL INPUTS NO	
	NO COMMUNICATION	ENTRANCE GATES	GATES	2		
OFFICE ATCS ADDRESS 2	2.550.00.0000	85% VOLTA	85% VOLTAGE RELAY OUT	YES	EDIT RELAYS NO	
	7.RKR.11 L.GGG.XX.XX	+ GATES CON	GATES CONTROLLED BY FOREIGN RR		LEDS	
	7.RHR.I LL.GGG.XX.XX	BATTERY BANKS	ANKS	2		
BACKUP HOP ADDR 2 7	7.PRR.LLL.GGG.XX.XX	BATTERY MON USE	AON USED	NO	+	
		PREEMPTION	N	ON		
MODE	GENZATCS	INTERNAL CROSSING	CROSSING CONTROLLERS	2	1962-44K A165 SUBNULE 19	
WAMS XID	DISABLED	EXTERNAL	EXTERNAL CROSSING CONTROLLERS	¢		
OFFICE COMM DEVICE	MCM (ECHELON)	VHF COMMUNICATOR	UNICATOR	YES	NULES: 	O IS SDIT C
RADIO AICS ADDR	7.88R.LLL.666.01.01	DTMF ACTIVATION	VATION	YES	• UJSFLATEU IF GRUSSING CUNFIQUER 	
	(OFFICE NUMBER)	**** ACTIVATION CODE	V CODE	734	THEN THESE OPTIONS ARE NOT DISTURD	
INIT STRING		ACTIVATIO	ACTIVATION TIMEOUT (SECONDS)	60	THESE SETTINGS SHOULD BE LEFT	
FIELD COMM DEVICE N	NONE	ILOD MODULES	LES	9		
USER PORT BAUD 5	27600	***** ANY LED B	ANY LED BULBS USED	ON	USE LAST 3 NUMBERS FROM DOT NUMBER.	BER.
USER PORT DATA BITS 8	8	VHF VOICE CHANNEL	CHANNEL.	2	**************************************	
USER PORT PARITY N	NONE	VHF DATA CHANNEL	CHANNEL	2		
USER PORT STOP BITS		USE CELL MODEM	MODEM	0N		
USER PORT FLOW CONTROL N	NONE	NON-CIVILIC	AL FEALUNE			CLTTD V
AUX PORT BAUD	9600				SEAR III PRUGRI	U DE FUL
AUX PORT DATA BITS 8	8					NORFOLK
AUX PORT PARITY N	NONE				OFFICE OF ASS'T. VIC	DENT M.P. C.I-253.40
AUX PORT STOP BITS 1		TO CONFICURE SEARCH	to configure searcharess site setup kev. Use arrow keys to make selection.		15 COMM. & SIGNAL	
AUX PORT FLOW CONTROL N	NONE	PRESS ENTER AFTER S	ELECTION HAS HEEN MADE.		CHECKED BY: CFLGS AT 66TH ST PEH @8-25-15	
				HADFERTY DEMNEXY VANIA D D	IN SERVICES DATON DISTRICT	No. R-

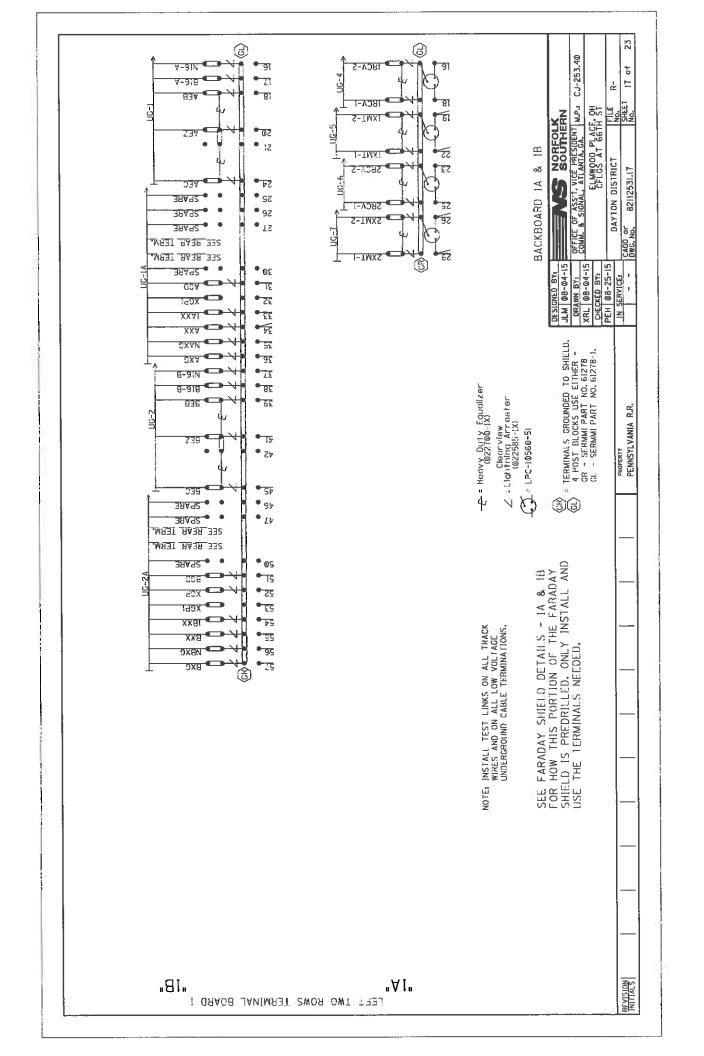


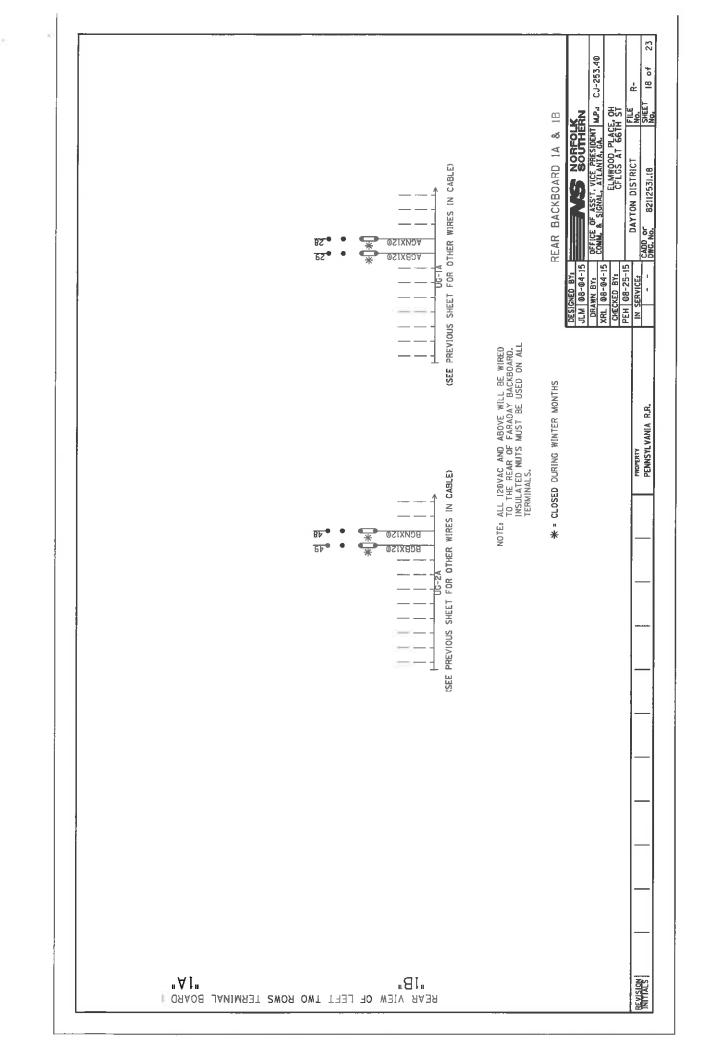


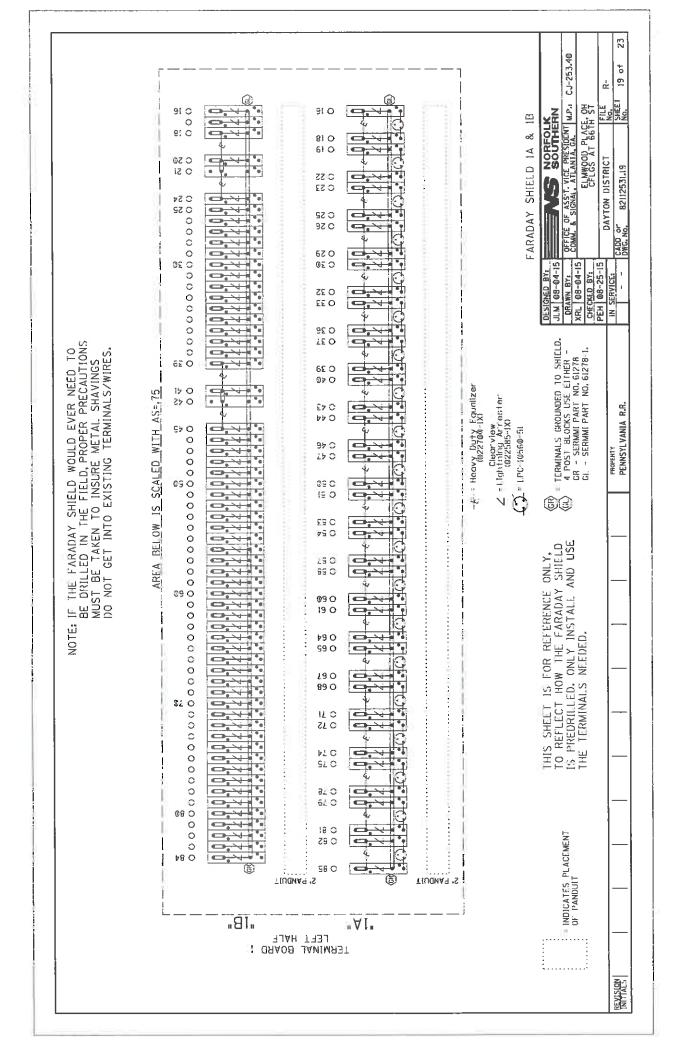




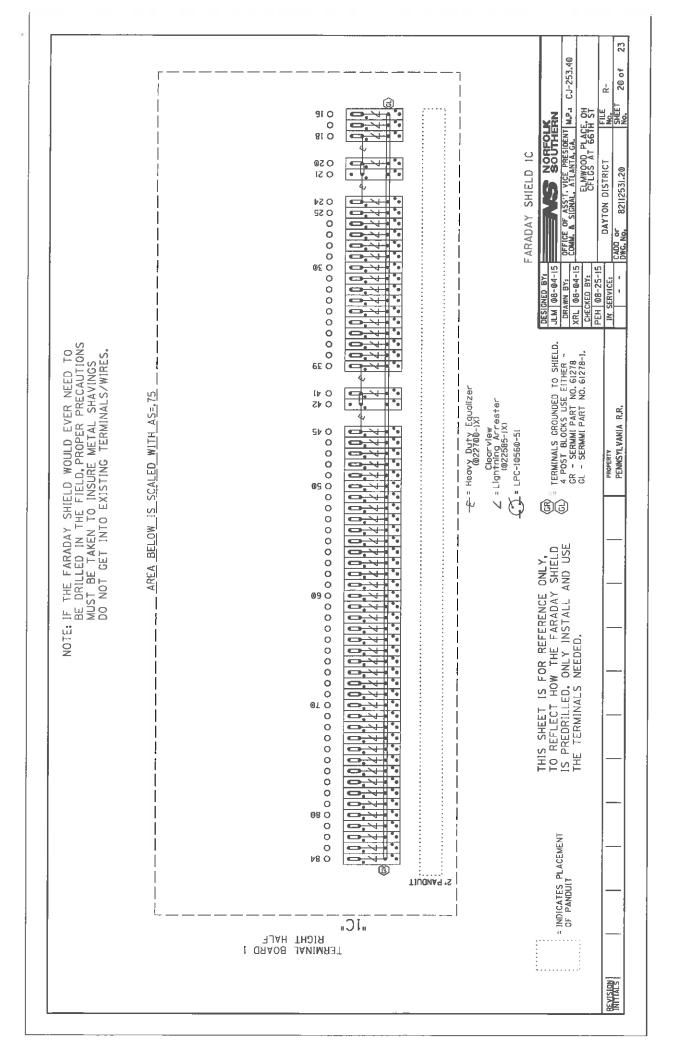


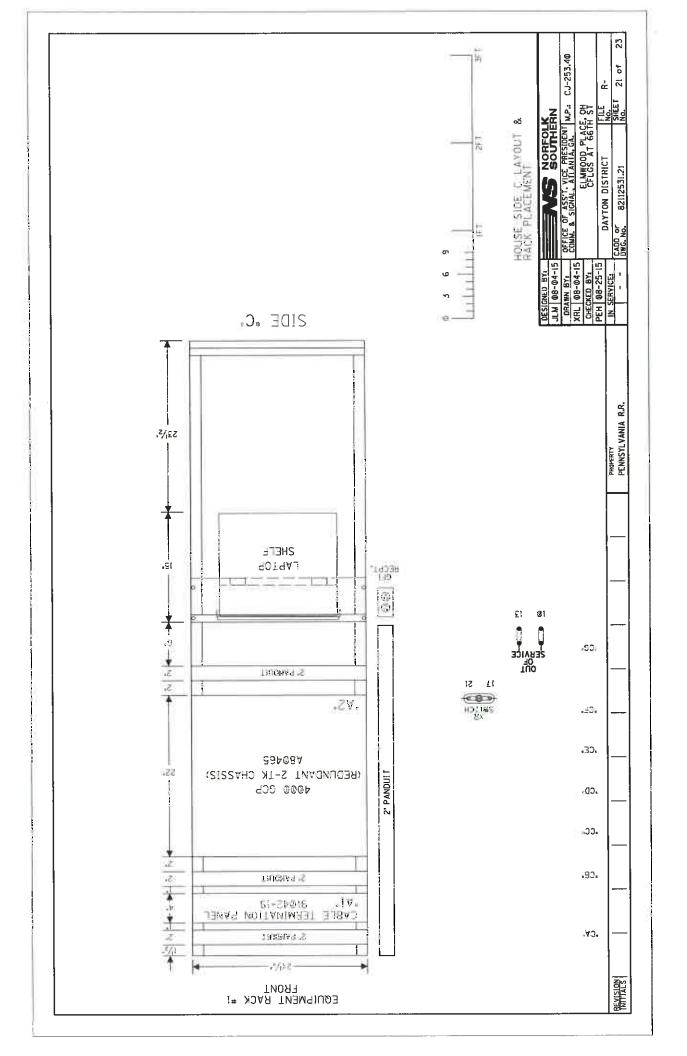


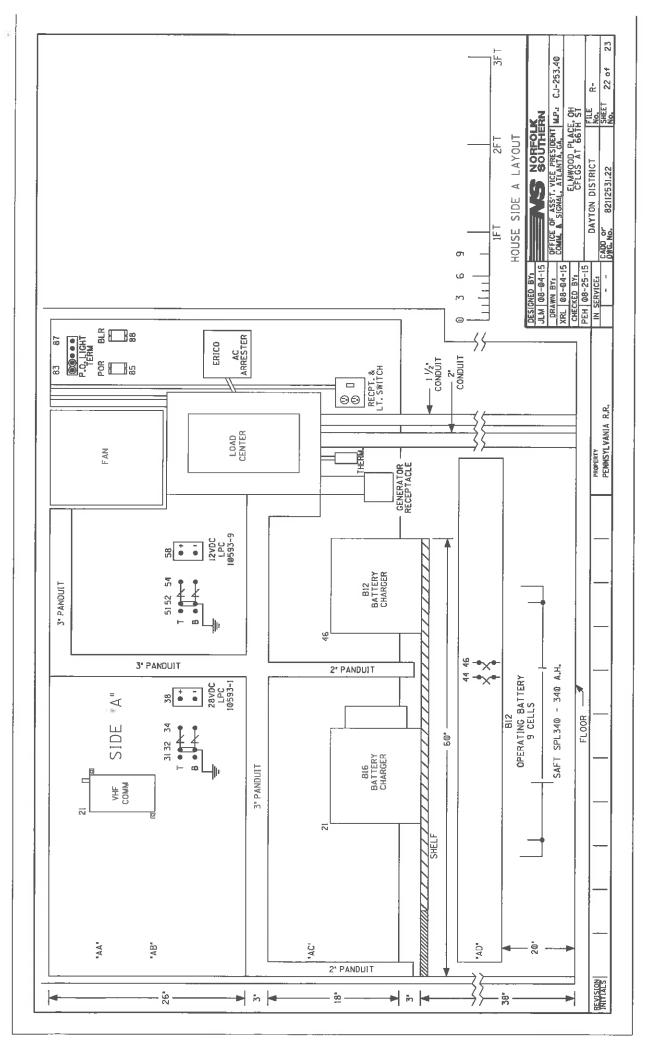


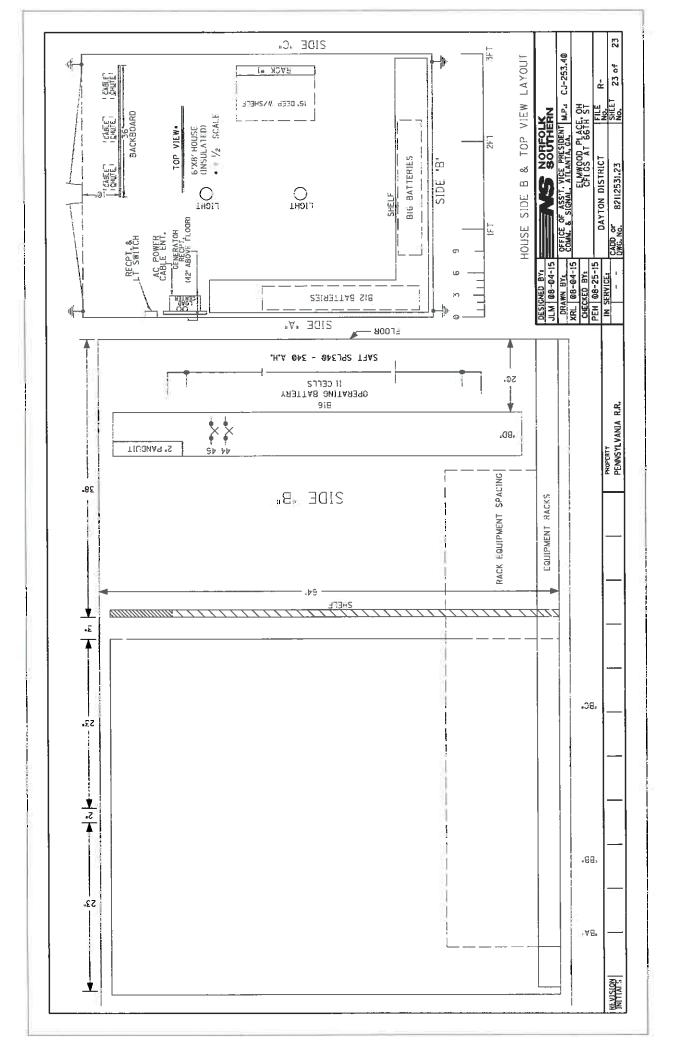


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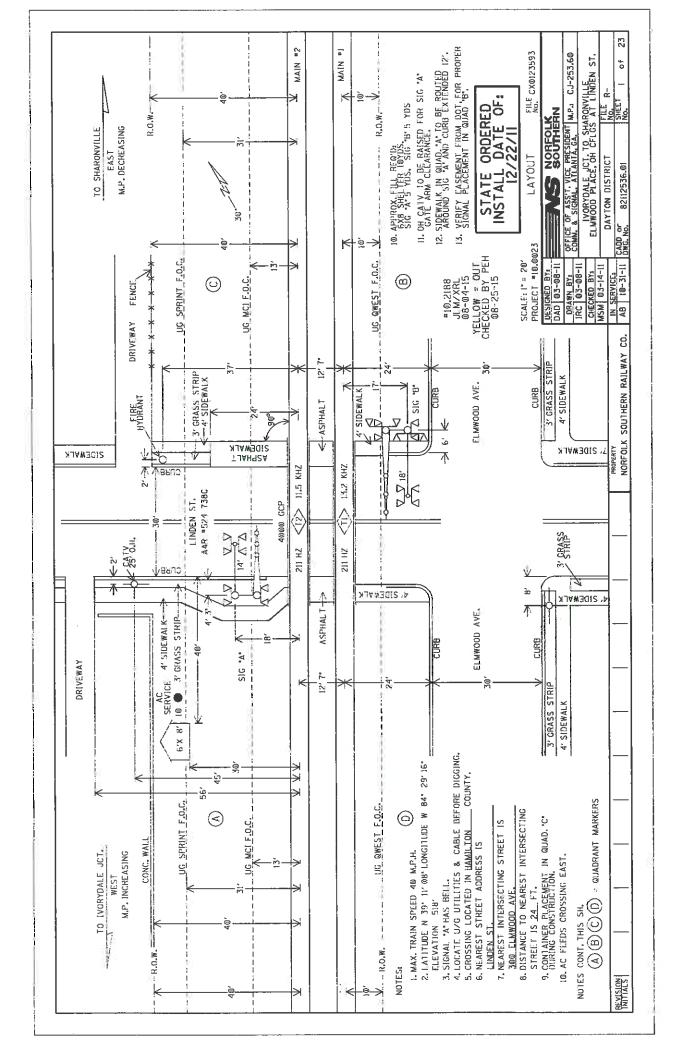


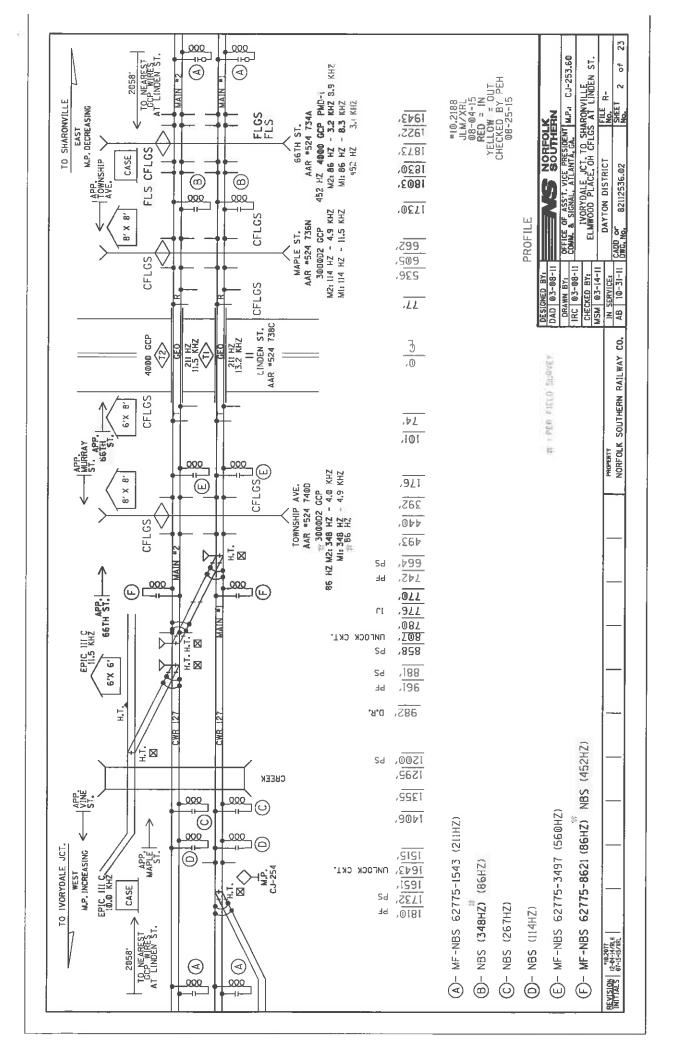


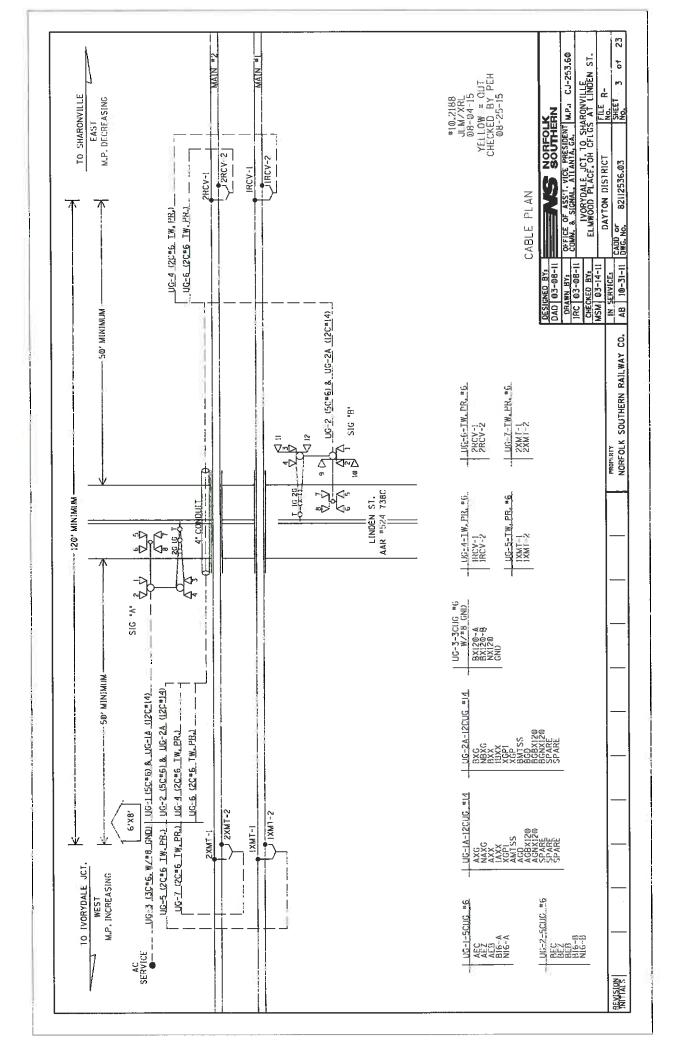


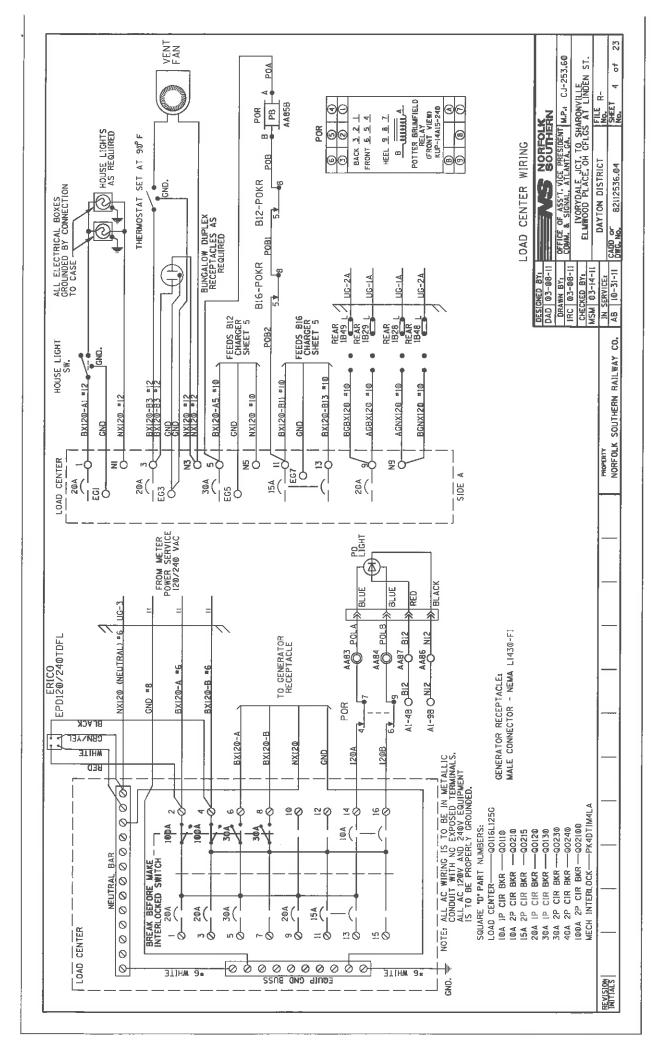


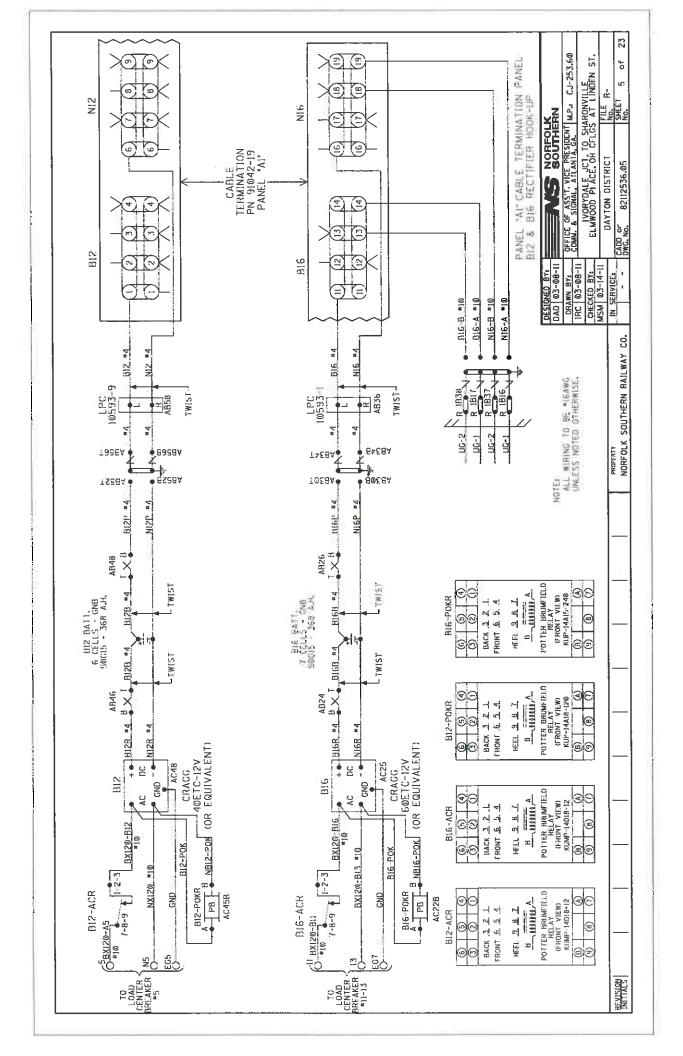
INDEX SHEET LAYOUT LAYOUT PROFILE CABLE PLAN LOAD CENTER CABLE PLAN LOAD CENTER RECTIFIER & BATTERY 4000 GCP 2-TK CHASSIS & MODULE LAY 4000 GCP PROGRAMMING SETUP 200N GCP PROGRAMING S	INDEX SHEET LAYOUT LAYOUT PROFILE CABLE PLAN LOAD CENTER CABLE PLAN LOAD CENTER RECTIFIER & BATTERY A0000 GCP PROGRAMMING SETUP 40000 GCP PROGRAMMING SETUP 40000 GCP PROGRAMMING SETUP 7000 GCP PROGRAMMING SETUP 70000 GCP PROGRAMING SETUP 70000 GCP PROGRAMING SETUP	Silon 2188	MSM 03-14-11 DAYTON DISTRICT FILE R- IN SERVICE: DAYTON DISTRICT FILE R- SERVICE: CADD OF CONTRACT SHEET
		CONTENT INDEX SHEET LAYOUT PROFILE CABLE PLAN LAYOUT PROFILE CABLE PLAN LOAD CENTER RECTIFIER & BATTERY 4000 GCP PROGRAMMING 4000 GCP PROGRAMMING 4000 GCP PROGRAMMING A000 GCP PROGRAMMING 55CC#1 MODULE, ILOD#1 HO 55CC#1 MODULE, ILOD#1 HO 55CC#1 MODULE, ILOD#2 HO 55CC#1 MODULE, ILOD#1 HO 57C 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	

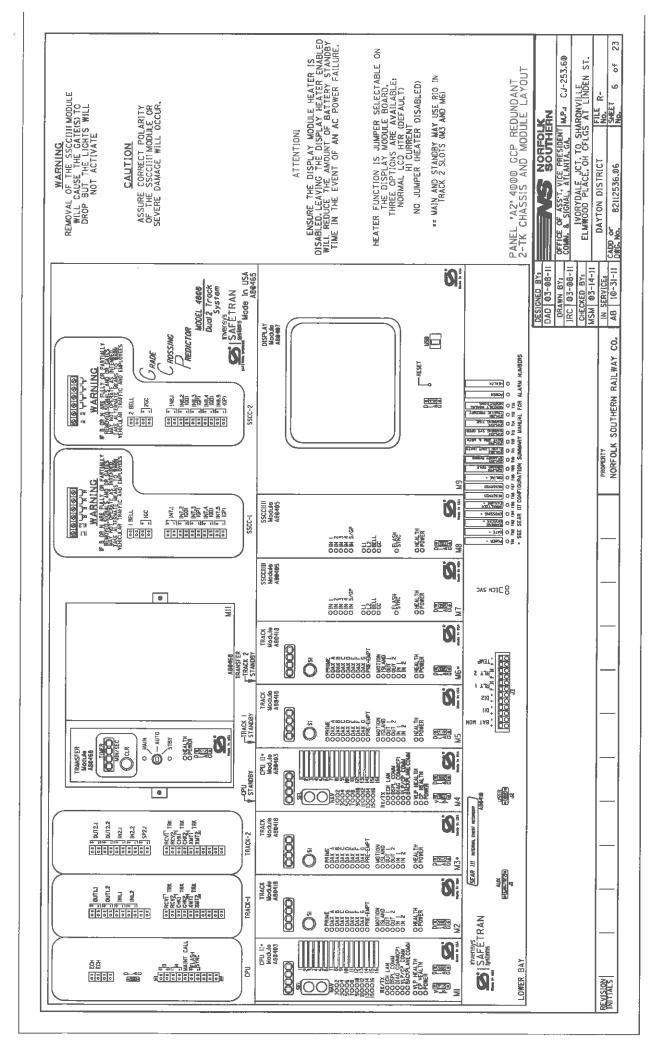






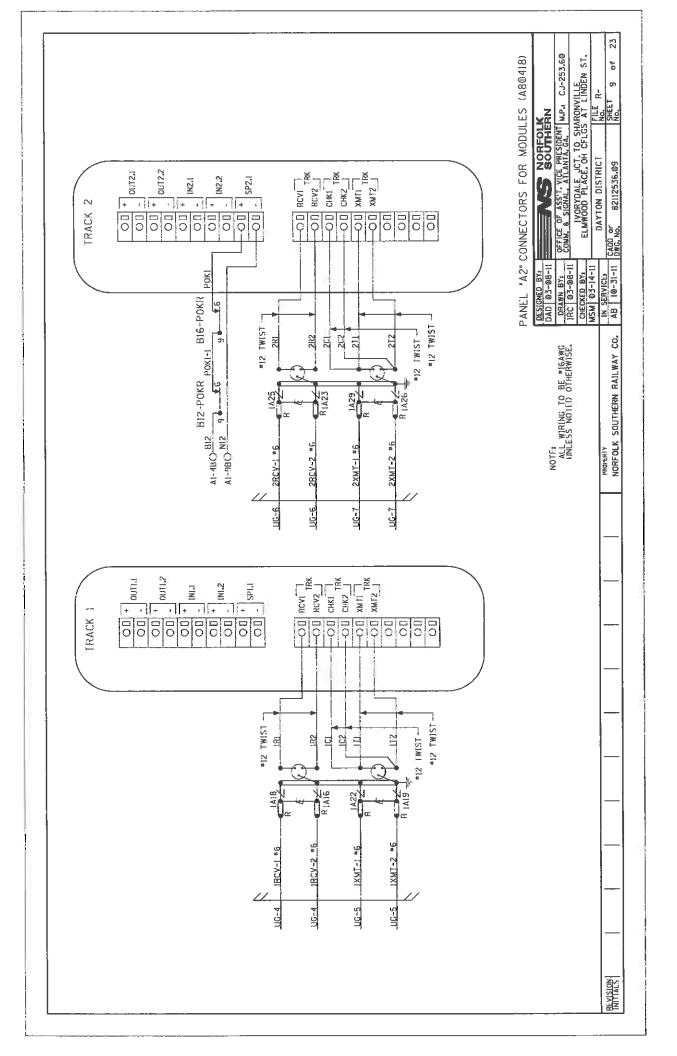


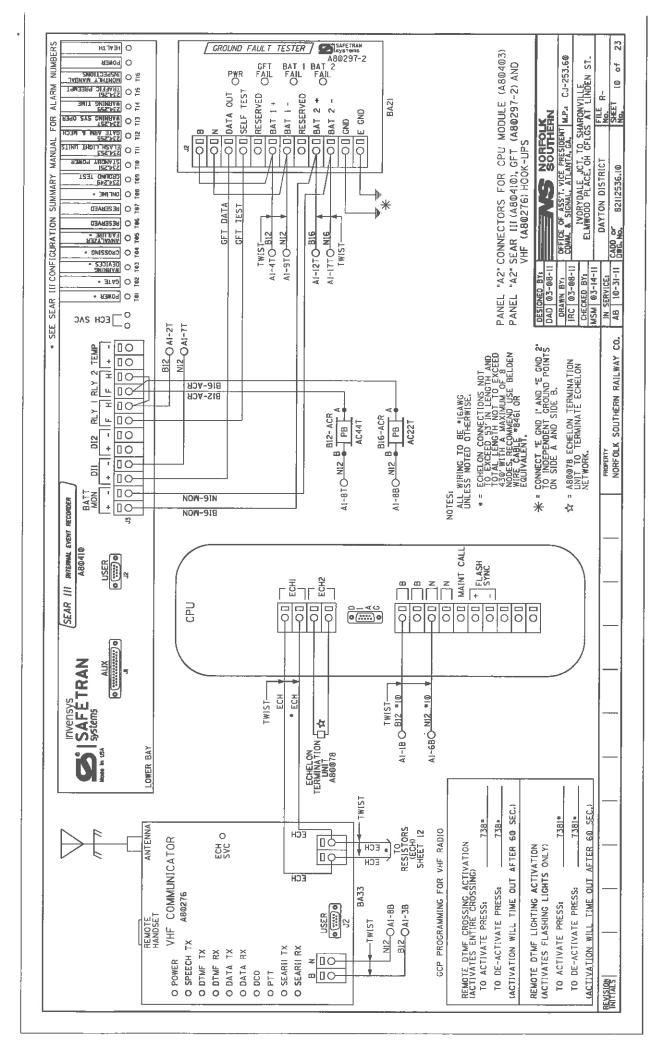




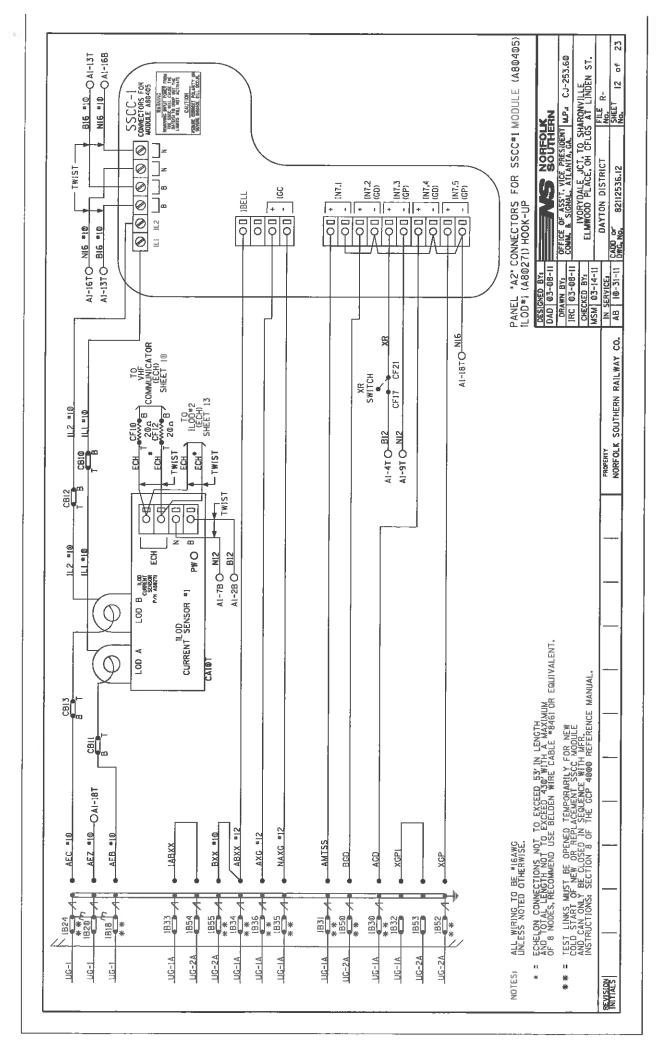
GCP1. +rock 2 MS. Control Lead = No Fruck 2 MS. Sensifivitie Lead = No Fruck 2 MS. Sensifivitie Level = 190 Fruck 2 MS. Control Filler = 190 Fruck 2 MS. Fruck Filler Fruck 2 MS. Fruck Filler = Act Fruck 2 MS. Correction Used = Yes	JSLAND: 1 reack 1 IFreds 1 shirroughency 132 kilz IFreds 1 shirroughency 2 shirroughency 132 kilz IFreds 1 shirroughency 2 shirroughency 2 shirroughency IFreds 1 shirroughency 1 shirroughency 1 shirroughency IFreds 2 shirroughency 1 shirroughency 1 shirroughency IFreds 2 shirroughency 1 shirroughency 1 shirroughency IFreds 2 shirroughency 1 shirroughency 1 shirroughency	۲۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵	AND: AND: AND: JAR AND: AR Track 1: Prime AND (AR Track 1: Prime AND (Frack)e Picker 2 M: sec AND (Frack)e Picker 2 M: sec AND (Frack)e Picker 6 Sec	ASYACETRASturteusee = No ASYANCED: out of service COS fimeout = UsplartOS IPs COS fimeout = UsplartOS IPs AAVANCED: AN of service 2	12 005 Control=005 Input 1 2 005 Control=005 Input 1 ADVANCLU: track wrow circuits Frack I track wrow circuits Track I wrop Used = No Track 2 Wrop Used = No	ADVANCED: Trk Loverrides Frack [1: AllPredictors Override Used = No ADVANCE: AllPredictors Override Used = No ADVANCED: AllPredictors Override Used = No ADVANCED: OR logic	OR 2 Used 5 No OR 2 Used 5 No 4000 GCP PROGRAMMING SETUP	DESIGNED BY: DAD 03-08-11 DESIGNED BY: DRAWN BY: IRC 03-08-11 COMM. & SIGNAL AILANTA.GA. DRAWN BY: IRC 03-08-11 LOUGYDALE JCI, TO, SHARDWYILLE, CT CHECKER DRAWN II, LUOGYDALE JCI, TO, SHARDWYILLE, CT	
GCP: track, frog tutegory = \$1 andord Frock = \$605 Frog tutegory = \$11HZ = \$068 +1 Frock = Approvenue: \$15,5 and \$208 +1 Frock = Approvenue: \$2058 +1 Frock = \$607 From \$1,8 and \$1,6 and Frock = \$16 and \$10 meeters \$1,5 and \$15,5 and \$15	GCP Track Levensed of the second strains of	1	Frack I Frank With Vertur Der Ubard = No Frack I Frank Der Frank Der Visad = No GCP: Track J&OCP Fritel Frack I MS Sentifiyity Level = No Frack I MS Sentifiyity Level = No Frack I MS Sentifiyity Level = 1300 Frack I MORPHIGHT Level = 1300	20%	reacy by the provident of the provident	Junan	n Snanna	- CANNA	NORFOLK SOUTHERN RAILWAY
Program Report Location and SIN DOT number: 524738C Mignost Number: 524738C Site Name: LINBEN CSTREEF	MCF and Template Selection MCF and Template Selection MCF Name: CCP TEX-02-1.mcf MCF RevelopE433 Template 2 14:6 Trk 81 Check Numbers	011100 Check No. (D1 4,6,0);25546570 0111100 Check No. (D1 4,6,0);25546570 Cantily Check Number: 1564843AA Cased on MCF Navision 0210 Program BASIC: module conflauration	201420014001400140014014	BASIC: MSKCCP operation = Yes Frack : MS/CCP Operation = Yes RASIC: island operation = Yes Frack : island operation = Internal Frack : island Used = Internal	BASIC: preemption Preempt Logic = No BASIC: fracin Dax links Radio DAX link B Used = No Radio DAX link B Used = No	Mital Commus link 2 Used = No Vital Commus link 2 Used = No Predictoras, track 1 Frack = Prime Used = Yo Frack = 1,20x A Used = No			

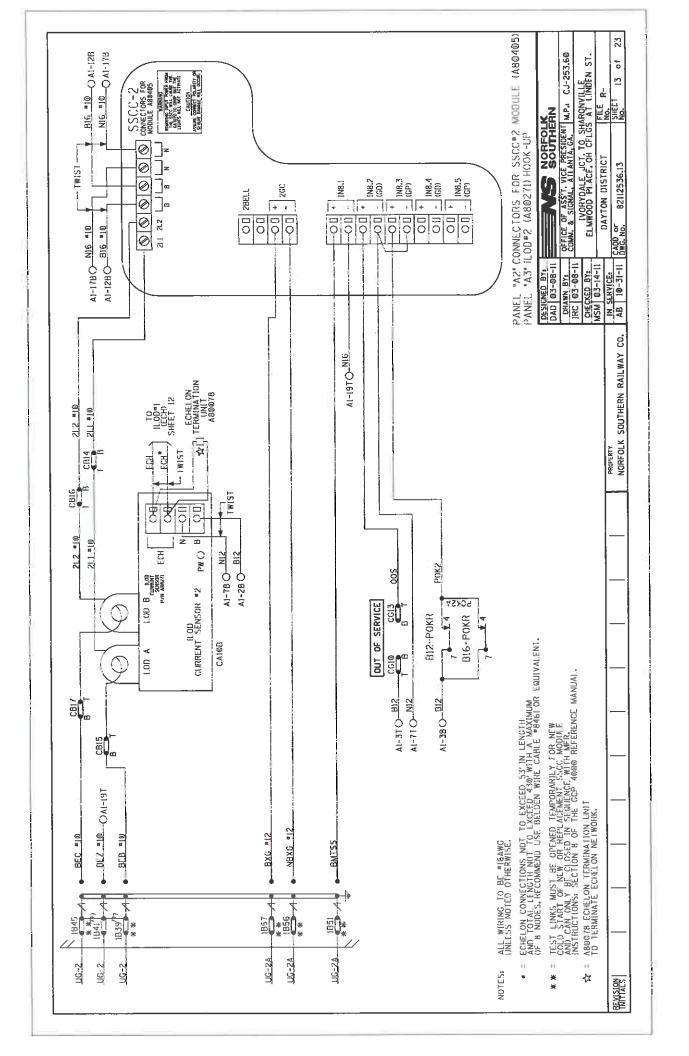
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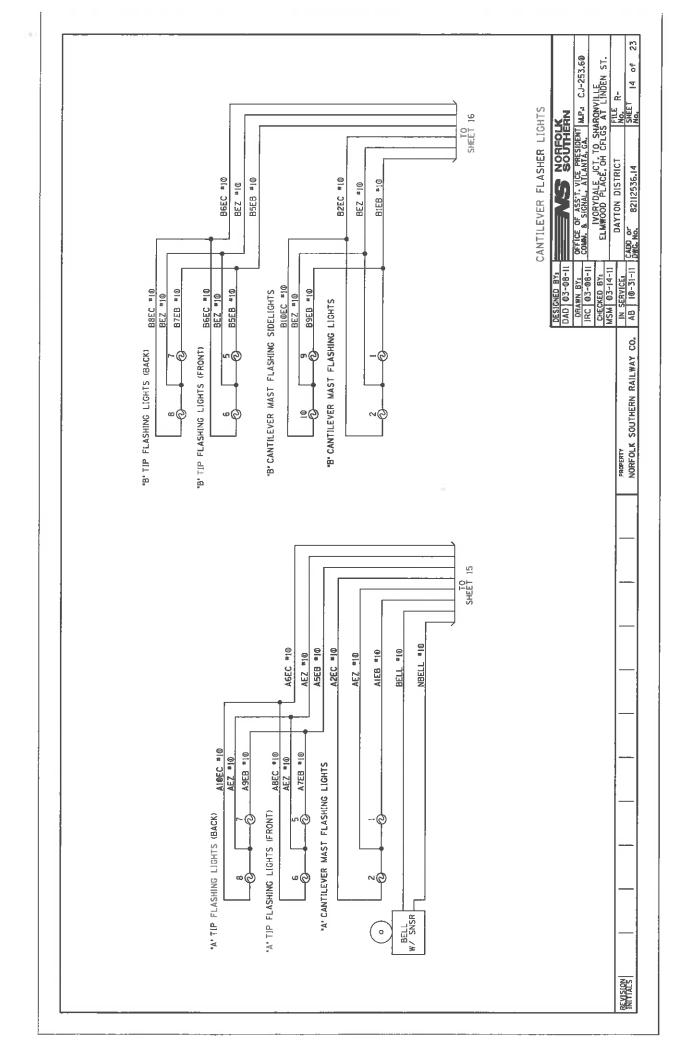


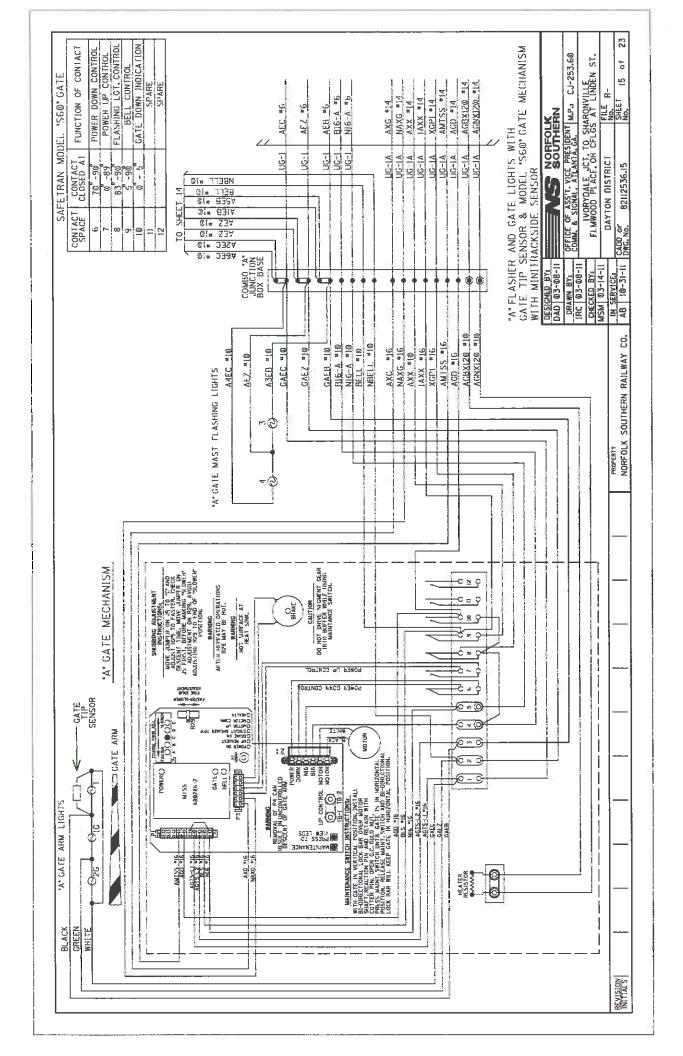


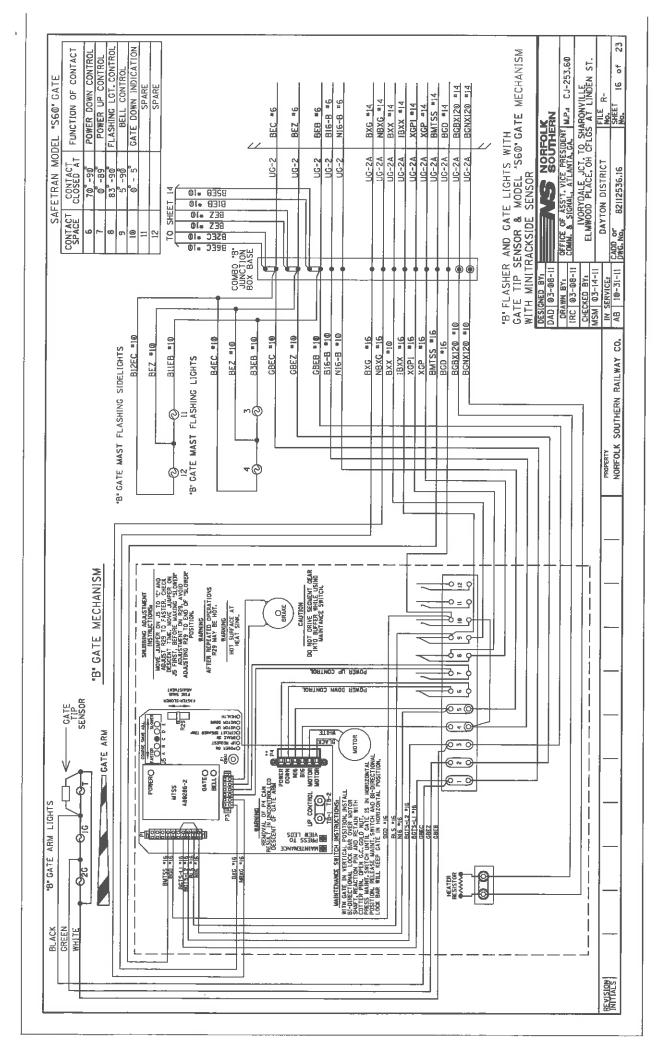
ST ADJUISTMENT		CUNIKUL STSIEM CONFIGURATION MENU MUESTONS		CONTRUE STATEM CONT	CUNTIQUEALING MEIND WOLLSHOOL AND	ONS (CONT.)
ICTION IC DST ADJUISTMENT IC DST ADJUISTMENT IC DST ADJUISTMENT C.2-27	-	THE QUESTION	SELECT FROM MENU OPTION	BELL ON	CATES LOWERING	ERING
IC DST ADJUISTMENT	~	RESET NAMES AND MODULES?	YES	GF1'S	YES	
IC DSI ADJUSTMENT		RAILROAD NUMBER	550	BATTERIES ON GFTI	2	
		CROSSING CONFIGURATION	NORMAL.	GATE TIP SENSORS	YES	
		AND LUSED AS XR?	YES	RTU	N	
		AND 2 USED AS XR?	NO	VHF VOICE CHANNEL		
		AND 3 USED AS XR?	μŋ	VHF DATA CI3ANNEL	2	
		AND 4 USED AS XR?	NO	USE CELL MODEM	QN	
TESTER TYPE I CROSSING		AND 5 USED AS XR?	DN	NUN-CRITICAL LEALURE		
		AND 6 USED AS XR?	ÛN	FULL APPROACH MOVES ALARM	A ACTIVALE	
		AND 7 USED AS XR?	NÜ			
D (SEC)		AND & USED AS XR?	NO			
0	2007	 XR CONTROLLED BY FOREIGN RR 		PROGRAM MENU QUESTIONS	PROGRAM	
	10	ENTRANCE GATES	2	EDIT DIGITAL IMPUTS		
	NU	 GATES CONTROLLED BY FOREIGN RR 				
re Anneree		GALF POSITION FAIL TIME (SECONDS)	20	EDIT HELAYS		
ADD9	>>	HATTERY BANKS	2	EDIT INDICATOR LEDS NO		
	~~	BATTERY MON LISED	YES	HUIT TEST LEDS NO		
-	XX	INTERNAL CROSSING CONTROLLERS		EDIT ILOD SENSORS NO		
BACKUP HOP ADDR 2 7.RRR.LI.L.GGG.XX.XX	XX	3.0		EDIT WH SETTINGS NO		
POLL ID		EXTERNAL UNUSSING VAULTURES	ه ۷۵۴	GCP4K ATCS SUBNOISE		
MODE CENZATCS			LES	NOTES:		
WAMS XID DISABLED		DTMF ACTIVATION	YES	• = DISPLAYED IF CROS	 DISPLAYED IF CROSSING CONFIGURATION IS SPLIT GATE 	SPLIT GATE
OFFICE COMM DEVICE MCM (ECHELON)		** ACTIVATION CODE	738	** = OPTIONS: IF BELL :	SENSOR = 0.	
RADIO ATCS ADDR 7.RKR.LLL.GGG.01.01	01	ACTIVATION TIMEDUT (SECONDS)	60	THEN BELL FIELDS ARE NOT USED.	ARE NOT USED.	
		ILOD MONULES	2	*** IF SITE TYPE - NO	COMMUNICATION.	
ING		ANY LED BULBS USED	ON	DISPLAYED	INS AKE NUT	
FIFL D COMM		AUTO INSPECTIONS	NO	•••• THESE SELTINGS SHOULD BE LEFT	HOULD BE LEFT	
	B. L. NONF	BELL SENSORS			SETTING.	
	I NONE	** BELL SENSOR TSSI	YES	**** = USE LAST 3 NUMBE	= USE LAST 3 NUMBERS FROM DOT NUMBER	
		** BELL SENSOR TSS2	QN			
VERIFY NUMBER OF BULBS: SENSOR #1		** BELL SENSOR TSS3	UN			
CURR 1: LAMP SET UP 6 BULBS		** BELL SENSOR TSS4	NO	SEAR	III PROGRAMMING	SEI UK
CURR 2: LAMP SET UP 6 BULBS		** RELL SENSOR 1555	ON		NORFOLK	
VERTEY NILMBER OF HILL BS. SENSOR #2		•• BELL SENSOR TSS6	CN		OFFICE OF ASS'T. VICE PRESIDENTINE.	4 P - C 1-253 60
		** BELL SENSOR TSS7	ON	3	& SIGNAL, ATLANIA, GA. I	1.5
		** BELL SENSOR 1558	NO	CHECKED BY	ELMWOOD PLACE, OH CFLCS AT LINDEN	AT LINDEN ST
T	-		PROPERTY	IN SERVICE: CAD	AYTON DISTRICT	FILE R- No. Shee I

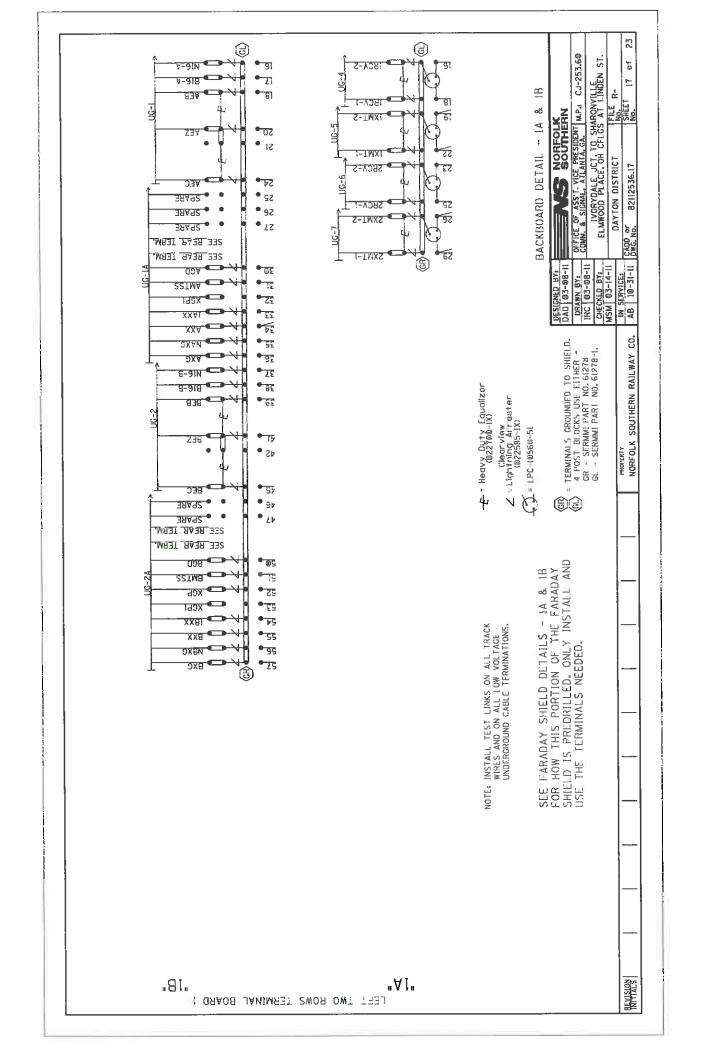


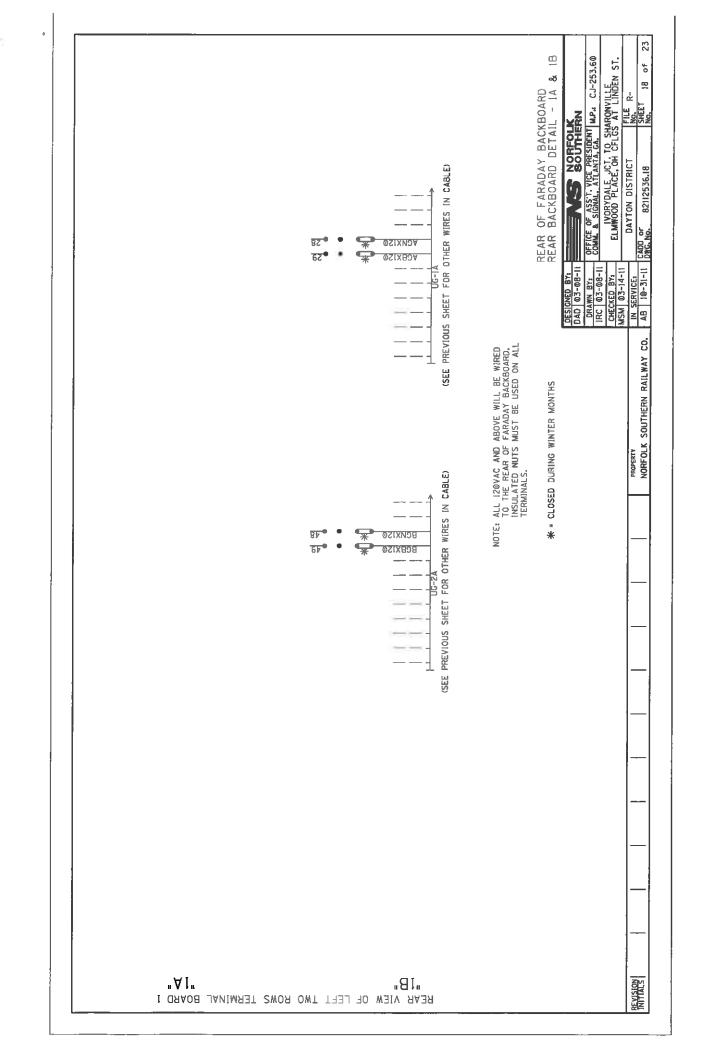


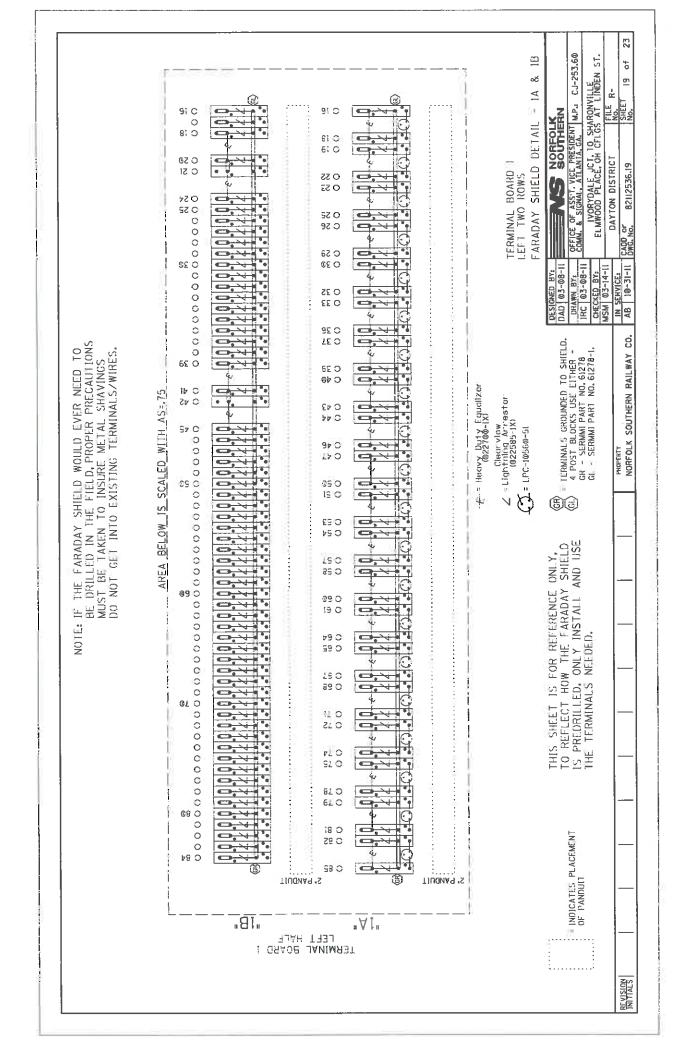


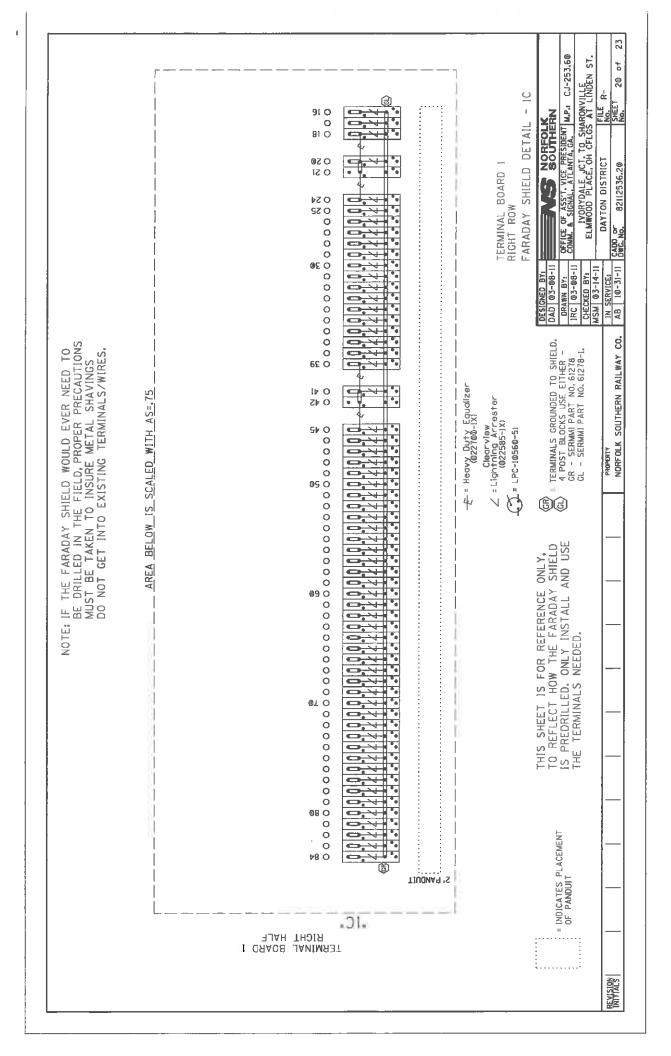


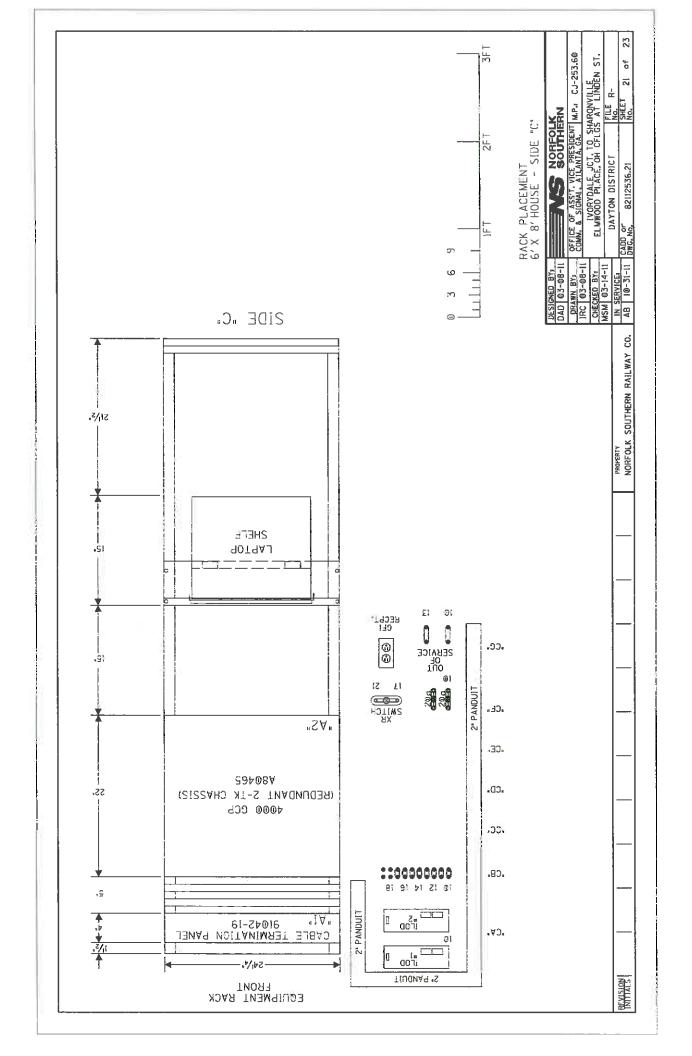


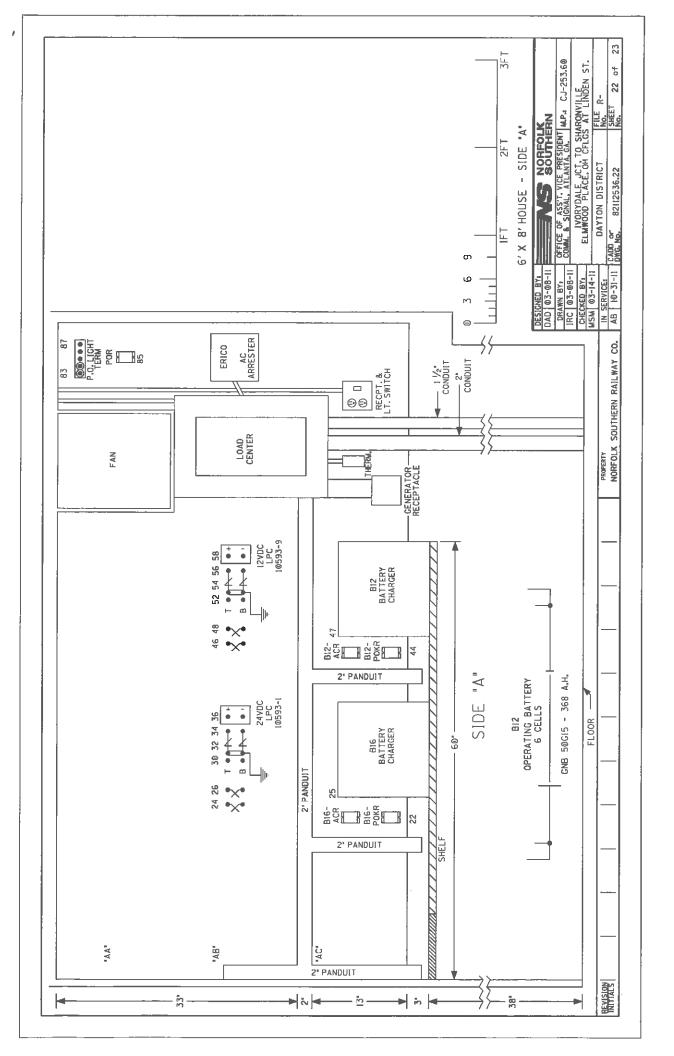


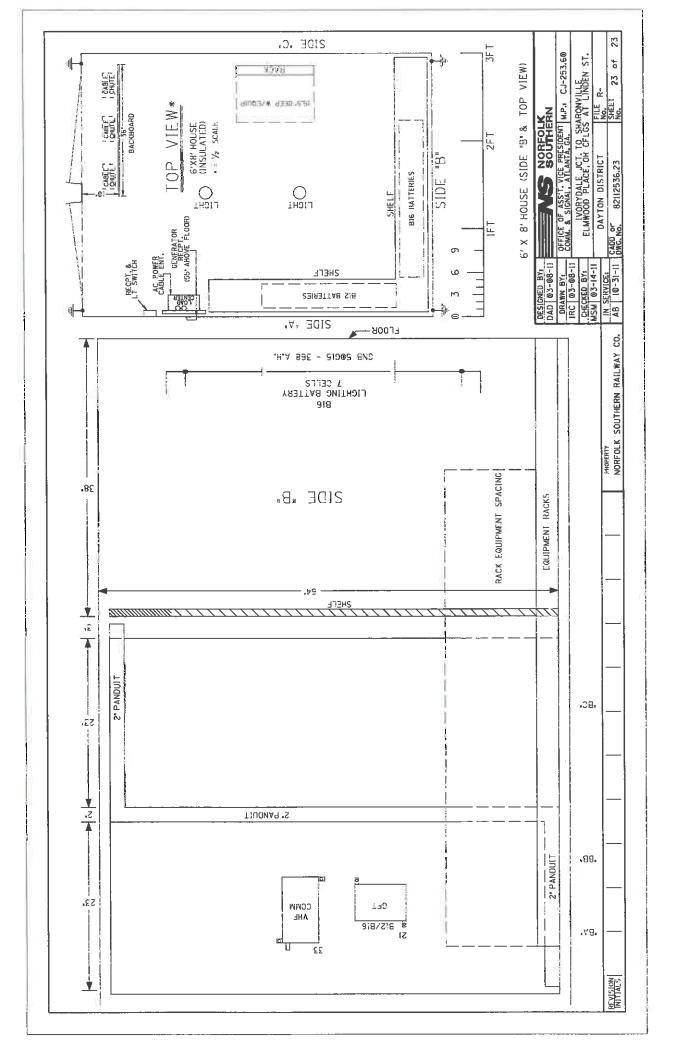














June 22, 2015

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

RE: Hamilton County - 66th Street, DOT # 524734A, PID# 100180

Dear Mr. Klinger:

A diagnostic review was held at the above grade crossing on September 27, 2013. The crossing has been recommended for the installation of lights and gates.

Norfolk Southern Railway Company is authorized to proceed with the site plans and cost estimates (PE) 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.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team with regard to 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.

A Project Manager will be assigned for this project prior to construction authorization. If you have any questions you may contact me at (614) 644-0313 or catherine.stout@dot.ohio.gov.

Sincerely

Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO George Martin, Grade Crossing Planner, PUCO Susan Arduini, ORDC ORDC (file)

Attachment: 1 (diagnostic review form)

O

www.rail.ohio.gov phone: 614.644.0306 IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

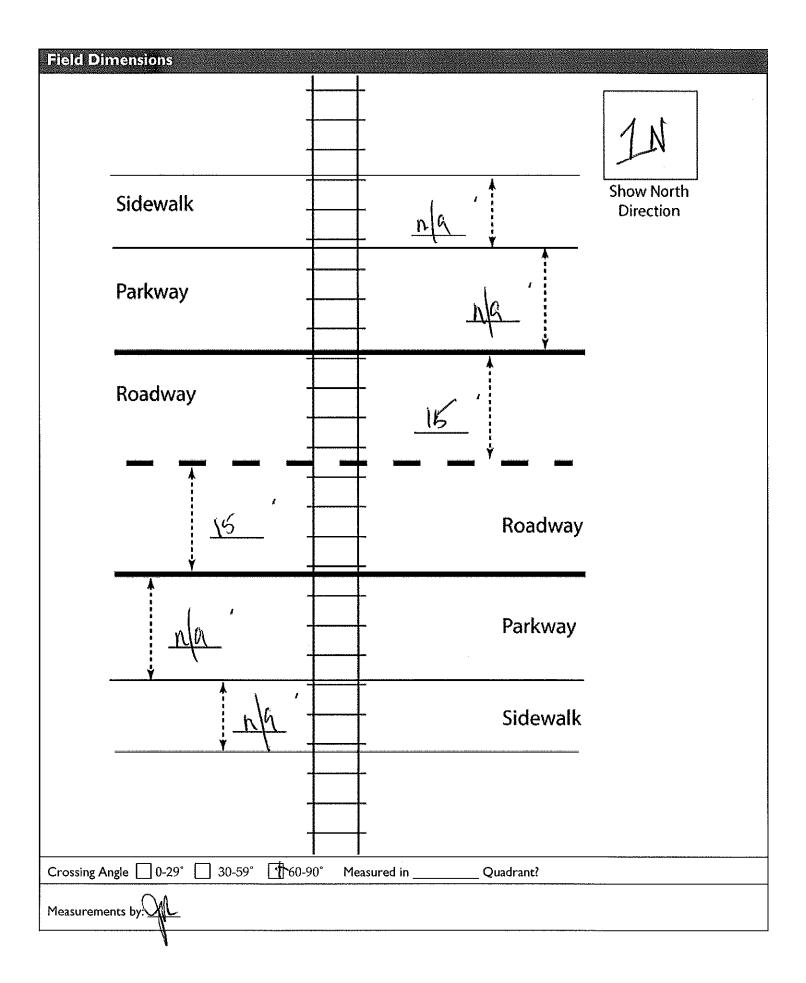
Reason for Survey: CJ Cor	ridor	Date: 9/27/13	
(e.g. formula, accident, constituent, etc.)			
Location Data			
Street or Road Name: 66th Street			
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 52	1734A
Countri	City:		
	(In or Near)	· · · · · · · · · · · · · · · · · · ·	
Railroad Norfolk Southern	Railroad Dearborn Division:	Branch Name:	(incinnati l i
Nearest RR Timetable Station: Evendale	I	RR Milepost: 25	i 3. 4
		-	
(Include: Name-Organization Phone Number		alis and a	
1. for Jerkingth	, ORDC, 614-6	44-0291	
2. UNick Carell	NS 740-0	475-9979	
3. Brian Bendel	PULO 513 -	260-6105	
4. Recipild Vict	0.0-	512 202-101	
	CC CH E D	<u>313 392 (020</u>	<u>ッピュ、ファ つれ</u>
5. JON CHILDRE	ss city of cive	NNATI 513	~ 376 312y
6	•		
7			
8			
			un fan mar a staat fan de f
9			
Existing Traffic Control Device	S		
Type of Warning Devices	Installed?	Ouan	tity/Comments
Advance Warning Signs (condition?)	Yes 🗌 No		
'Stop' Signs	Yes 🖌 No	· · ·	
'Stop Ahead' Signs	🗌 Yes 🔀 No		
Pavement Markings (condition?)	🔀 Yes 🔲 No		
Crossbucks	🛱 Yes 🗌 No		
Number of Tracks Signs	🙀 Yes 🗌 No		
Inventory Tags	🖌 Yes 🗌 No		
Interconnected Highway Traffic Signal	Yes K No		
Mast-Mounted Flashing Lights	Yes No		
Cantilever Flashing Lights	Yes 🐴 No	Number:	Length:
Side Lights	Yes No		
Automatic Gates	Yes 🗚 No	Number:	Length:
Bells	Yes 📈 No	Number:	~
Sidewalk Gate Arms	Yes 🖌 No		
'No Turn' Signs	Yes 7 No		····
Illumination	Yes No		
Is crossing flagged by train crew?	V-Yes No		
Other			

Safety Data (Obtain cr	ash repo	rts, if possible, prior to review)			
		ial Information (from database)	Revised		
Number & dates of c ras hes in previous 5 years	0				
Hazard Ranking	4447	Date Run: 9/11/13			
Railroad Data					
Railroad Characteris	tics	Initial Information (from database)	Revised		
Total trains per day		18			
< per day			۲ <u>ــــــــــــــــــــــــــــــــــــ</u>		
Day thru trains		6			
Night thru trains		10			
Daytime switching moveme	nts	2			
Nighttime switching moven		0			
Total number of tracks		2			
Number of mai n t racks		2			
Number of oth er t racks		0			
Maximum train speed		40			
Typical train speed					
Amtrak					
If non-gated crossing, is clearin	g sight distan	ce adequate in all quadrants? (See Table 1)	🙀 Yes 🗌 No		
1	ists' view of	ossing at the same time? 🛃 Yes 🗌 No another train at crossing? 🔏 Yes (Explain be ugh the crossing? 🔲 Yes 🛛 🛣 No	low) 🗌 No		
	ing this same ifferent)	roadway within 100 ft of this crossing?	へ		
Roadway Data					
Local Highway Au thor ity:		Village of Elmwood Place Cinc	innaty		
Roadway Characteri	stics	Initial Information (from database)	Revised		
Average daily traffic		31 (2006)	1200		
Highway paved		X Yes 🗌 No	Yes No		
Roadway Surface: Blacktop 🚮 Gravel 🗌 Concrete 🗍 Other					
Roadway width: <u></u> ft.	-174				
Number of highway lanes		2			
Urban or Rural 🖌		Urban			
Vehicle Speed: 2 MPH					
School Bus Operation: 🗌 No	Yes	Amount	L		
Hazardous Materials Trucks:	N₀	Yes Amount			
	es				
Is the shoulder surfaced? 🕅	10 D	Yes			
Is there existing guardrail along	g roadway in	crossing vicinity? 🔀No 🗌 Yes			
ls stopping site distance adequa	ate? (See Tab	le 2) 🕅 Yes 🗌 No 🛛 If no, deficient a	pproach(es)		

. 1				
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")			
D None	K None			
Pedestrians: 🔲 No 🔄 Yes				
ls sidewalk present? 🏹 No 📋 Yes				
Is there a nearby intersection that could cause queuing over the co If yes, Distance	rossing? 🖾 No 🗌 Yes			
ls 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? 🔀 No 🛛 Yes				
Is a roadway improvement project (e.g. widening, turn lanes, nearl location in the foreseeable future? If yes,	by new or upgraded traffic signal, sidewalk) planned at or near this			
Improvement type Lead Agency	Timeline/completion			
la is she announced she Diamostic Paulou Team shet shis is a se	tential electric analogy RINa SI Veg			
Is it the consensus of the Diagnostic Review Team that this is a potential closure project: 🔨 No 🛛 🕅 Yes Explain reasons:				
City will address Closure to	o Officials of Bet back to ORDC.			
Type of Development				
Open Space Institutional Location of nearby	y schools:			
Industrial Commercial				
🔀 Residential				
Utility Information				
Is commercial power available? 🔲 No 🛛 🕅 Yes				
Utility Provider (Company Name)	Phone Number			
Nearest Available Power Source				
What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water Other Other	 Telephone Fiber Optic Cable Sanitary Sewer 			
Is(are) there potential utility conflict(s) PYes INO UNKNOWN Comments: N.E. Quad, overhead obstraction,				
N.2. Control 1 0				

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
Crossing Consolidation or Closure:
Real Estate or ROW:
Culverts / Drainage / Ballast Conditions:
Roadway and/or Sidewalks:
NE Quad, Overhead Utilities
ME Channy Overbedor Villenes o
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
Environmental:
Other:
alar la

Diagnostic Team Recommendations	
	Quadrants Needed
S Install/upgrade active devices	· · · · · · · · · · · · · · · · · · ·
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
∑ Sidelights	BOTH Quadrasts
Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Comments: Swarad install curbs to	splace foundation at 4's",
NE Quod install guardroite	strast measurement
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
Acknowledgement of Recommendations (each entity represented acknowledgement): De Denword The Canada Jon Chisher The Canada Ar Mon	CITY OF CINCINNATI
The land A. M. A.	1



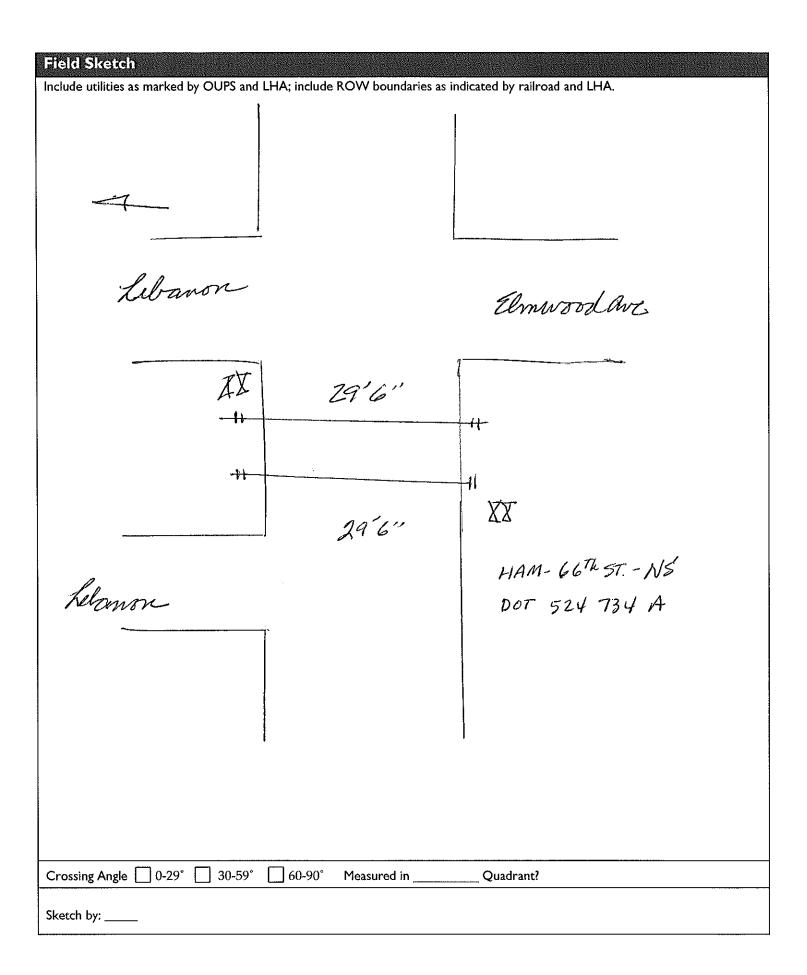


TABLE I

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

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

0
Distance (dH) Along Roadway from Crossing (ft)
n/a
50
70
105
135
180
225
280
340
410
490
570
660
760
865

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

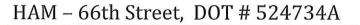
Notes:

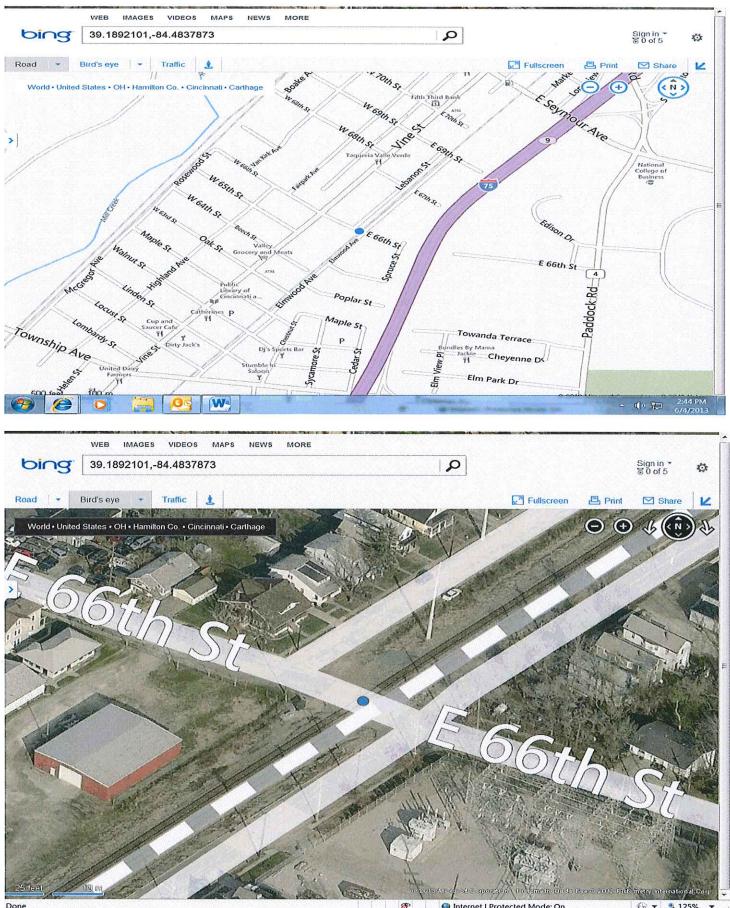
All calculated distances are rounded up to the next higher 5-foot increment.

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.

AN





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9/8/2017 5:58:37 PM

in

Case No(s). 17-1965-RR-FED

Summary: Application In the Matter of a Request for the Installation of New Active Warning Devices at the Norfolk Southern Railway Crossing, 66th Street DOT#524-734A, in Hamilton County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division