Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 9/12/17

Re: PUCO Case No. 17-1975-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at Ashland Railway Crossings, DOT#264-982E, TR 1455 & DOT#264-989C, SR 96 in Ashland County & DOT#265-027S, SR 301, in Wayne County, Ohio.

On August 30, 2016, the Ohio Rail Development Commission (ORDC) authorized funding for Ashland Railway to install lights and gates at DOT#264-982E, TR 1455 & DOT#264-989C, SR 96 in Ashland County & DOT#265-027S, SR 301, in Wayne County, Ohio. The crossings were surveyed on March 29, 2016 and were found to warrant the upgrades. The electric utility provider for TR 1455 and SR 96 is First Energy-Ohio Edison. The electric utility provider for SR 301 is Holmes Wayne Rural Electric.

The projects will be paid for with federal funds and are actual cost. The plans and estimates for the projects in the amount of \$164,780.00 for TR 1455, \$164,780.00 for SR 96, and \$170,280.00 for SR 301 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine 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:

Ashland Railway Mr. Scott Patsolic 803 North Main Street Mansfield, Ohio 44902

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

Milton Township, Ashland County Trustees 1196 County Road 1356 Ashland, Ohio 44805

ODOT District #3 Jason Schraibman 906 Clark Avenue Ashland, Ohio 44805

Village of West Salem Mayor 27 S. Main Street West Salem, Ohio 44287

Holmes Wayne Electric Cooperative Inc. P. O. Box 112 Millersburg, Ohio 44654

First Energy- Ohio Edison

INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Eric Neff, Safety Manager, Safety Section, ORDC

SUBJECT: ASD-TR1455 (Ashland County) - **PID 103087** – **DOT # 264982E**

WAY – SR301 (Wayne County) - PID 103086 – DOT # 265027S ASD-SR96 (Ashland County) - PID 103088 – DOT # 264989C

DATE: July 26, 2017

The Ohio Rail Development Commission (ORDC) established diagnostic surveys at the subject locations on March 29, 2016. 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 forms and the plans and estimates 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. 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

Plan & Estimate

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





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

July 26, 2017

Mr. Scott Patsolic Mgr. Training and Safety Ashland Railway 803 North Main St. Mansfield, Ohio 44902

RE: ASD-TR1455 (Ashland County) - PID 103087 WAY – SR301 (Wayne County) - PID 103086 ASD-SR96 (Ashland County) - PID 103088

The plans and estimate dated July 24, 2017 for the referenced projects are acceptable. The Ashland Railway may proceed with the construction of the proposed grade crossing warning systems in accordance with the abbreviated plan. Construction may include but is not limited to circuitry design, installation of service poles, procurement of materials and signal construction. Please note ODOT Railroad Audit Circular No.4 Subcontracted Costs for Railroads and accordingly provide ORDC with any relevant bid documents and bid tabs pertaining to this project. 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 \$449,840.00 (Total Project Cost \$499,840.00 less 10% Ashland Rail match at \$49,984.00) and will be adjusted based on bid tabulations if applicable. 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 the Ashland Railway accepting the following instructions:

- 1. The Ashland Railway's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Eric Neff, ORDC, email: eric.neff@dot.ohio.gov and to Jill Henry the Public Utilities Commission of Ohio at email: jill.henry@puco.ohio.gov. Ashland Railway'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. The Ashland Railway'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 the Ashland Railway.



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- 3. The Ashland Railway's project foremen will notify Eric Neff at 614-745-6760 (telephone) or eric.neff@dot.ohio.gov (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.
- 4. Open cut of roadways is not permitted except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 5. The Ashland Railway will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order and PID number to reference when billing.
- 6. The Ashland Railway 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.
- 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.

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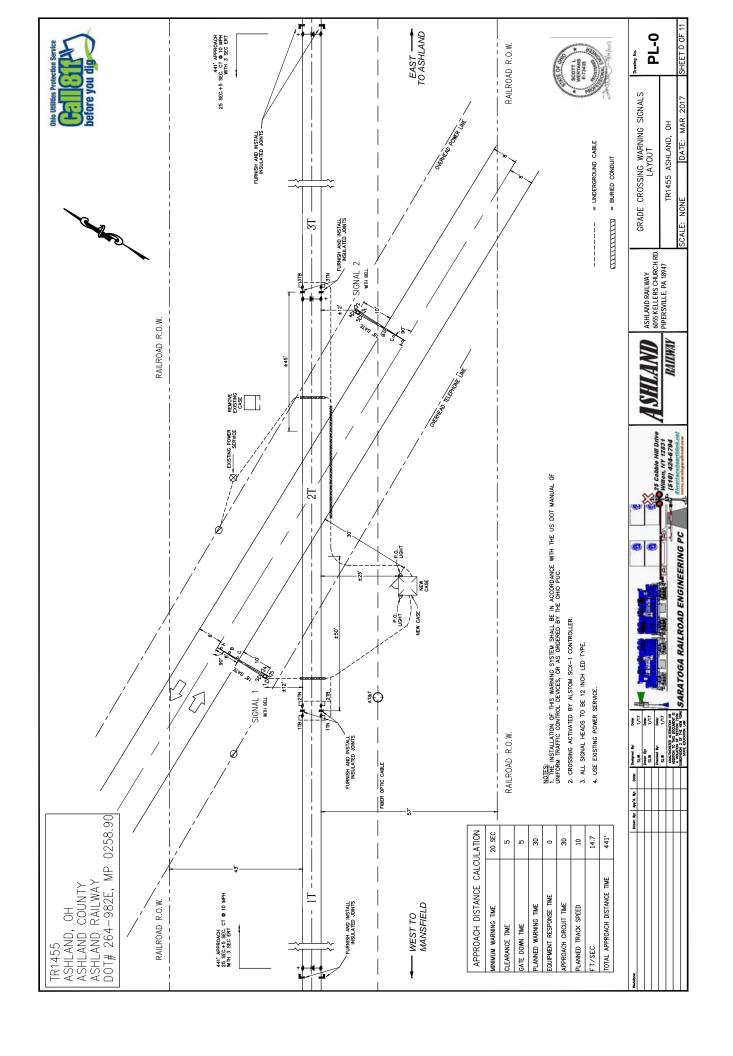
Sincerely,

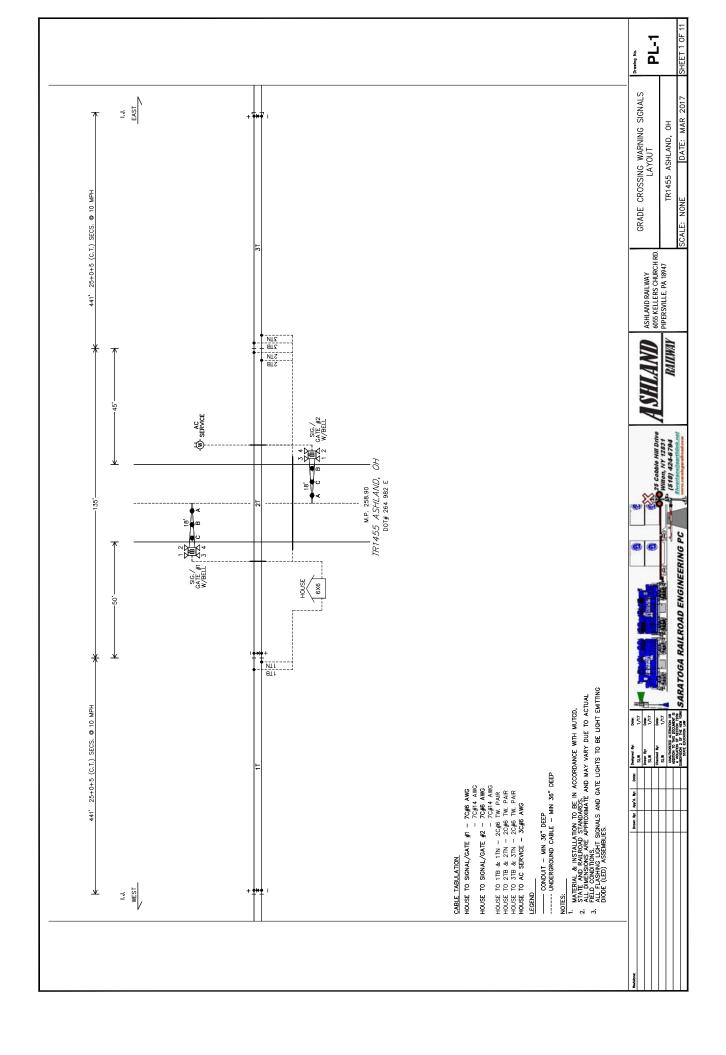
Eric Neff

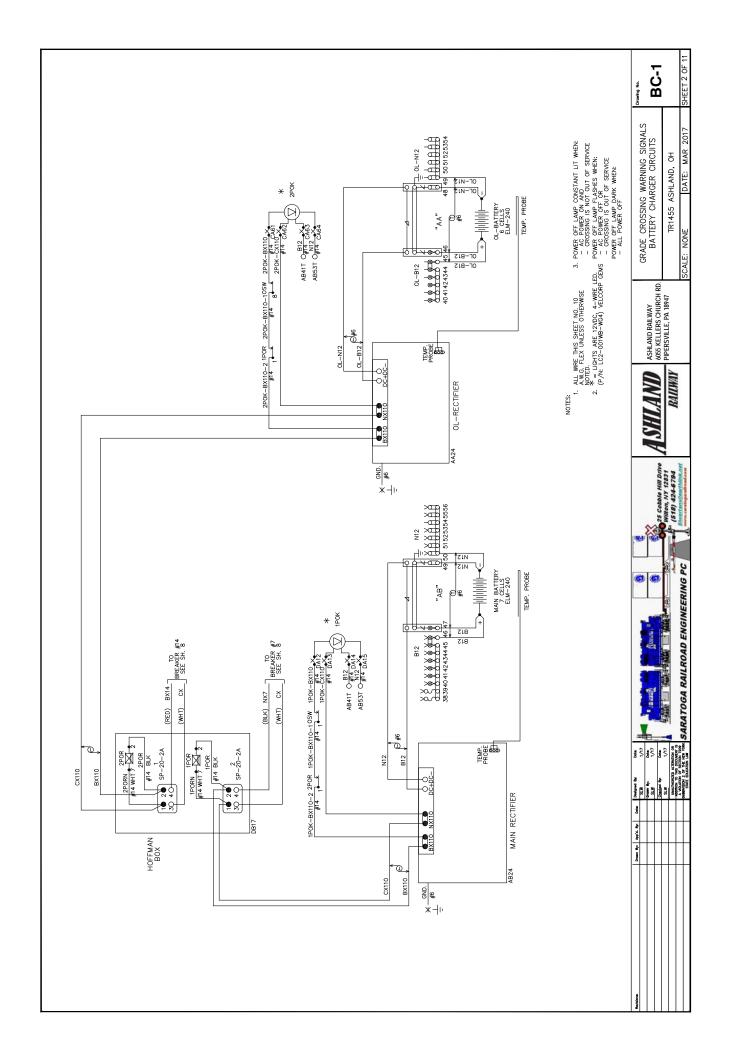
Eric Neff Project Manager

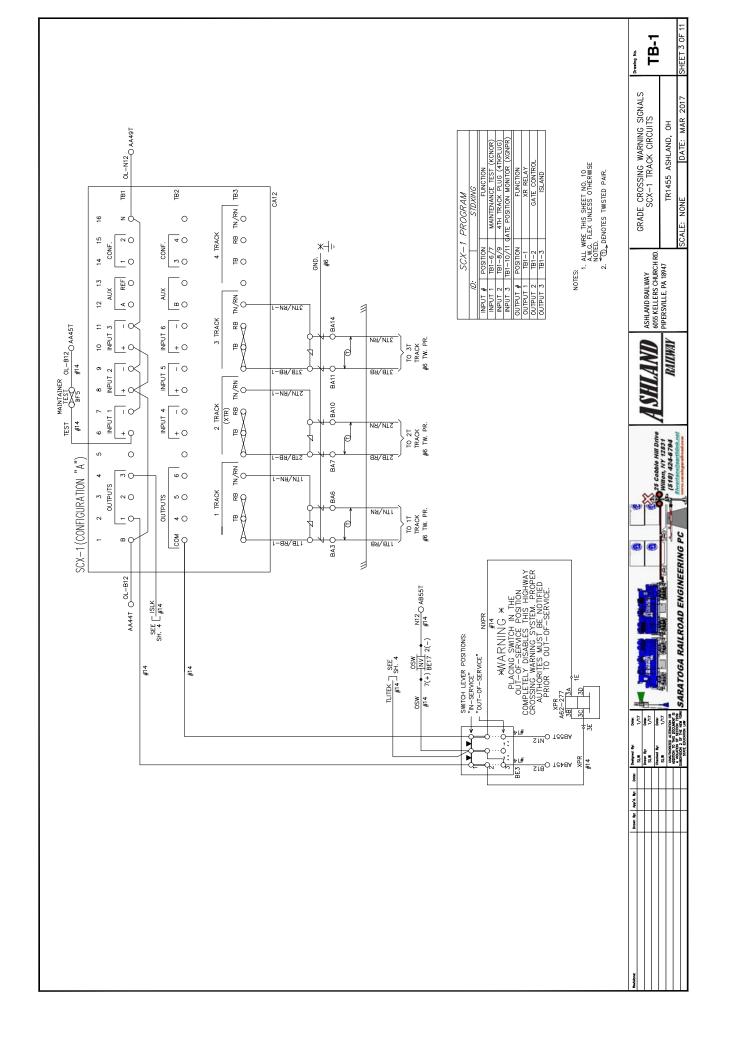
C: Randall Schumacher, Rail Division Supervisor, PUCO Jill Henry, Rail Division Specialist, PUCO Susan Arduini, ORDC ORDC (file)

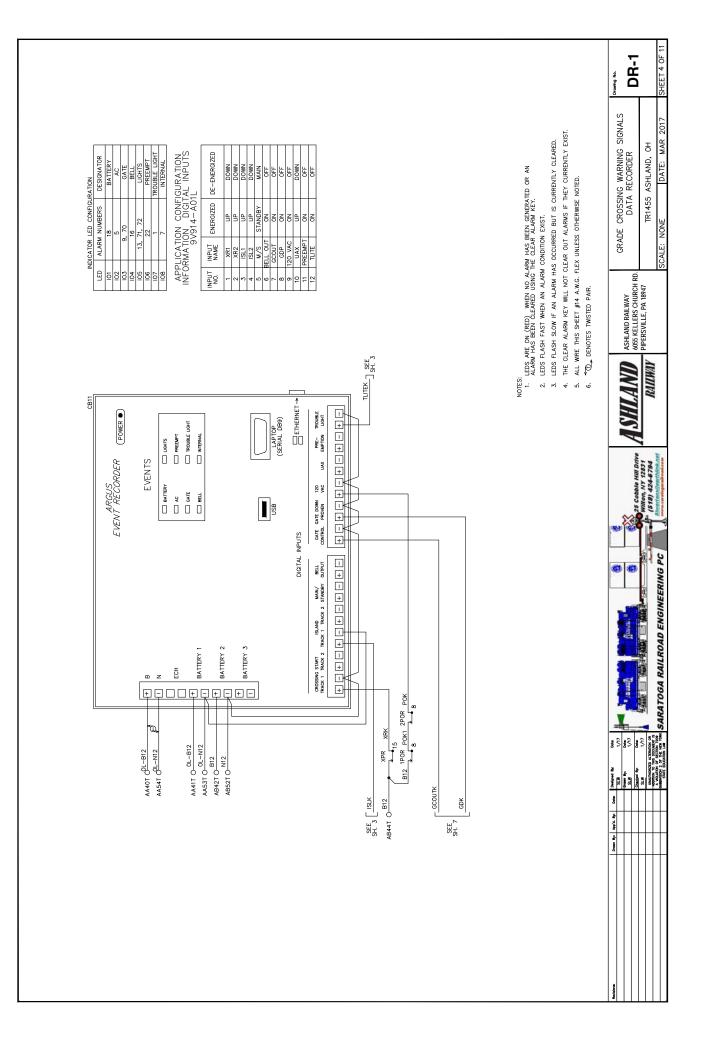
ASHLAND RAILWAY SIGNAL SYSTEM IMPROVEMENT PROJECT PRELIMINARY OPINION OF PROBABLE COST DATE: APRIL 17, 2017						
ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE		AMOUNT
SOUTH MAIN STREET - WEST SALEM, OH						
1	Furnish & Install Signal Warning Systems (Flashing Lights & Gates)	1.0	LS	\$ 140,000.00	\$	140,000.00
2	Conduilt 4 Inch Jack & Bore (HDPE) or PVC SH80	1.0	LS	\$ 4,000.00	\$	4,000.00
3	Railroad Commercial Power Service with fees	1.0	EA	\$ 5,000.00	\$	5,000.00
4	Furnish Non-Bonded Insulated Joint Assembly	8.0	EA	\$ 500.00	\$	4,000.00
5	Furnish and Place Ballast Walkway Course	30.0	TN	\$ 60.00	\$	1,800.00
6	Mobilization	1.0	LS	\$ 15,480.00	\$	15,480.00
	SUBTOTAL - SOUTH MAIN STREET				\$	170,280.00
OLIVESBURG ROAD (SR 96) - ASHLAND, OH						
1	Furnish & Install Signal Warning Systems (Flashing Lights & Gates)	1.0	LS	\$ 140,000.00	\$	140,000.00
2	Conduilt 4 Inch Jack & Bore (HDPE) or PVC SH80	1.0	LS	\$ 4,000.00	\$	4,000.00
3	Railroad Commercial Power Service with fees	0.0	EA	\$ 5,000.00	\$	•
4	Furnish Non-Bonded Insulated Joint Assembly	8.0	EA	\$ 500.00	\$	4,000.00
5	Furnish and Place Ballast Walkway Course	30.0	TN	\$ 60.00	\$	1,800.00
6	Mobilization	1.0	LS	\$ 14,980.00	\$	14,980.00
	SUBTOTAL - OLIVESBURG ROAD (SR 96)				\$	164,780.00
	CR 1455 - ASHLAND,	ОН				
1	Furnish & Install Signal Warning Systems (Flashing Lights & Gates)	1.0	LS	\$ 140,000.00	\$	140,000.00
2	Conduilt 4 Inch Jack & Bore (HDPE) or PVC SH80	1.0	LS	\$ 4,000.00	\$	4,000.00
3	Railroad Commercial Power Service with fees	0.0	EA	\$ 5,000.00	\$	-
4	Furnish Non-Bonded Insulated Joint Assembly	8.0	EA	\$ 500.00	\$	4,000.00
5	Furnish and Place Ballast Walkway Course	30.0	TN	\$ 60.00	\$	1,800.00
6	Mobilization	1.0	LS	\$ 14,980.00	\$	14,980.00
	SUBTOTAL - CR 1455				\$	164,780.00
	TOTAL ESTIMATE FOR CONSTRUCTION				\$	499,840.00
	REQUIRED MATCH (10%)				\$	49,984.00
						,
	WORK BY RAILROAD - PROJECT MATCH					
	Install Non-Bonded Insulated Joint Assembly	24.0	EA	\$ 1,099.29	\$	26,382.96
	Remove Existing Grade Crossing Warning System	3.0	EA	\$ 5,599.09	\$	16,797.27
	Railroad Flagging Services	24.0	Days	\$ 834.40	\$	20,025.60
	TOTAL WORK BY RAILROAD				\$	63,205.83

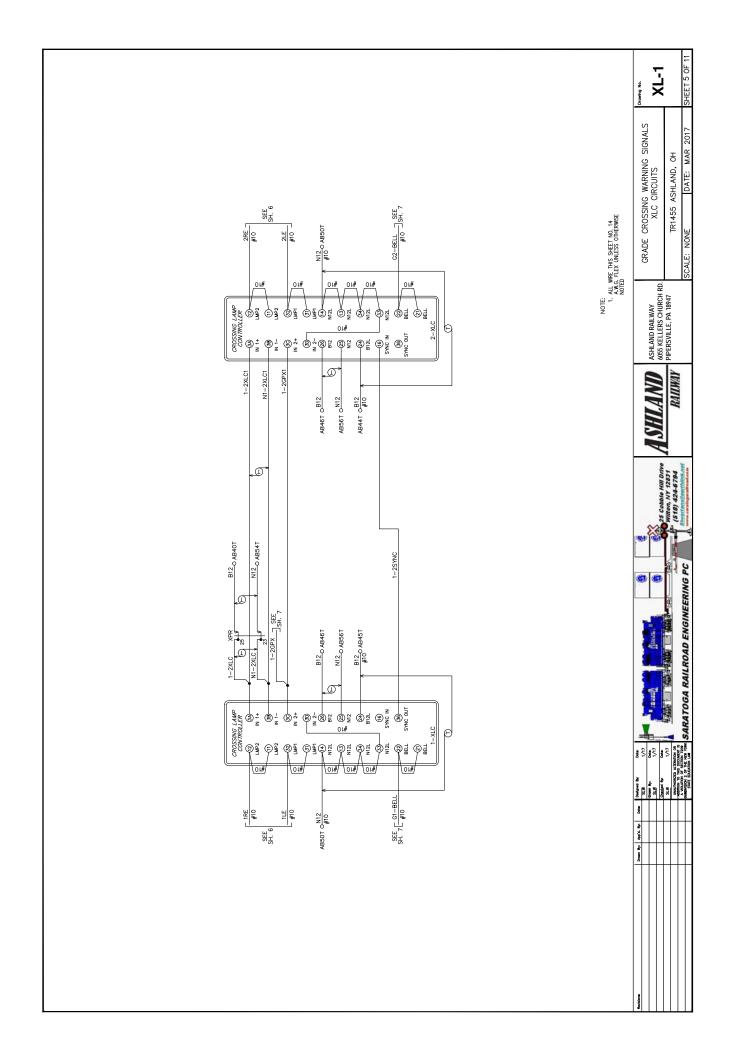


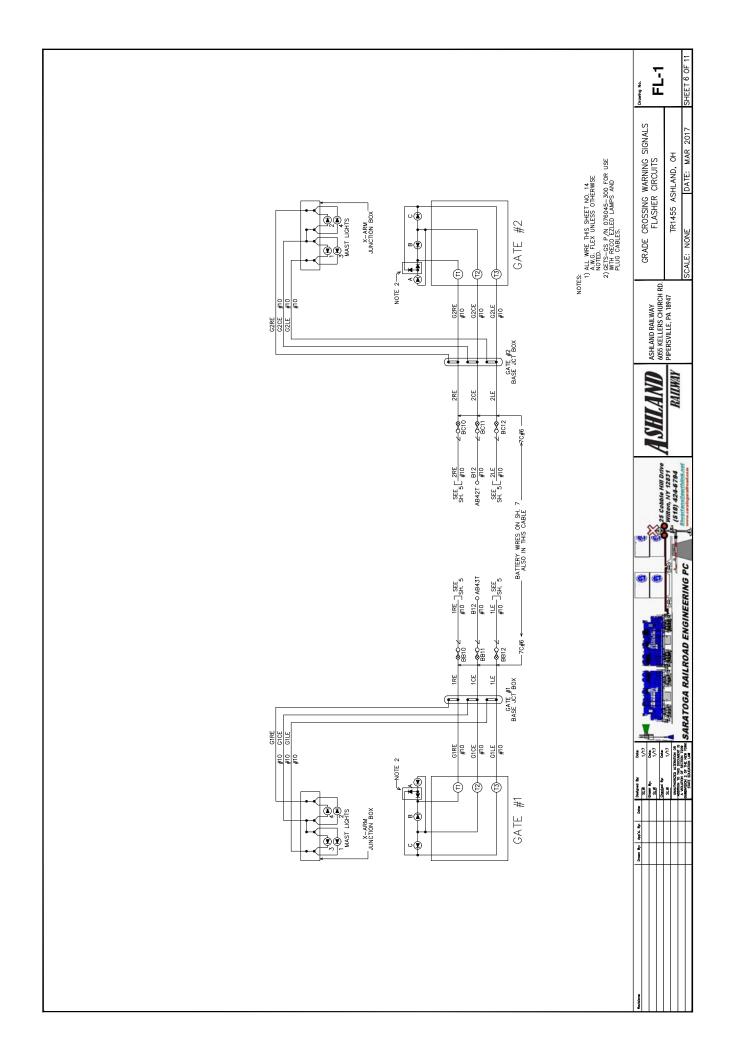


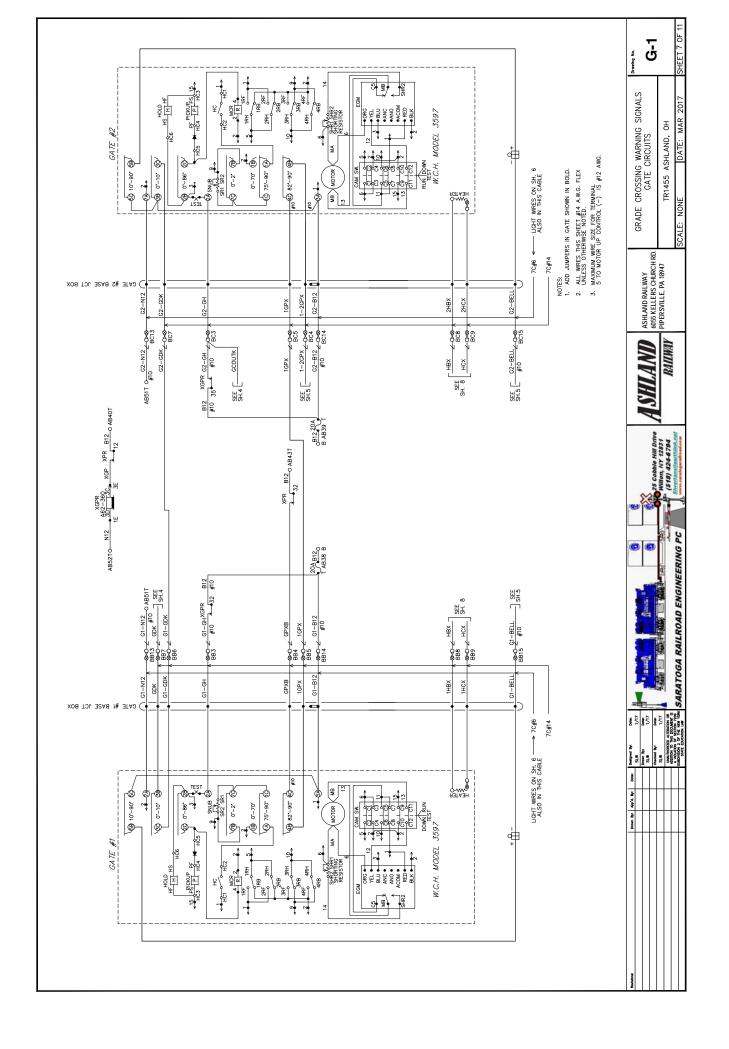


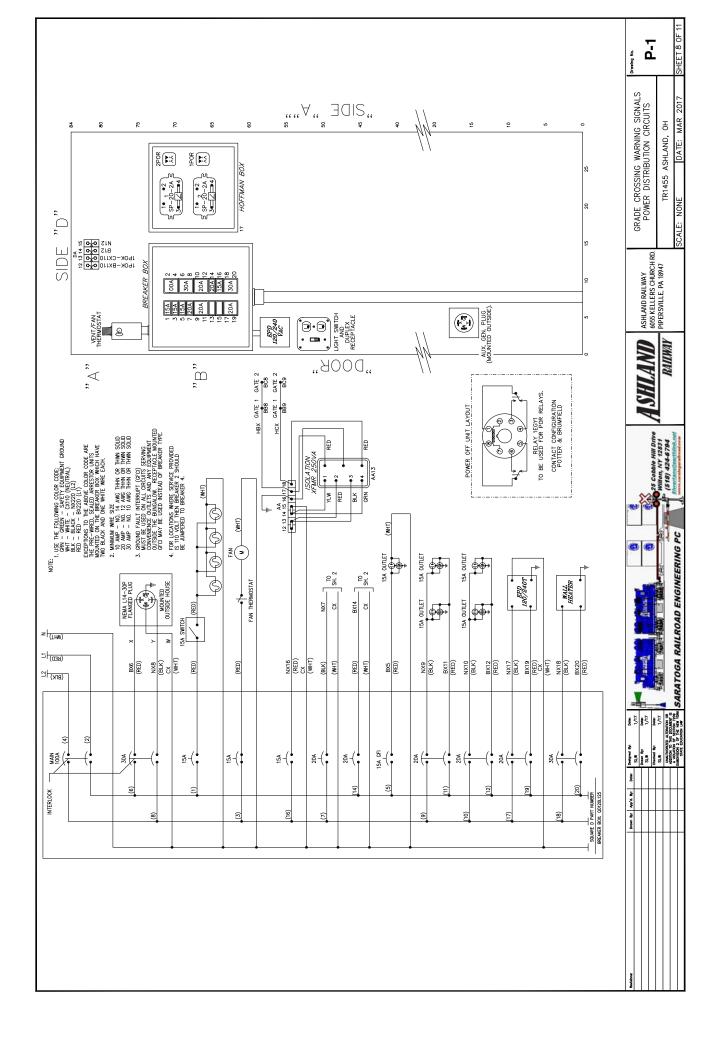


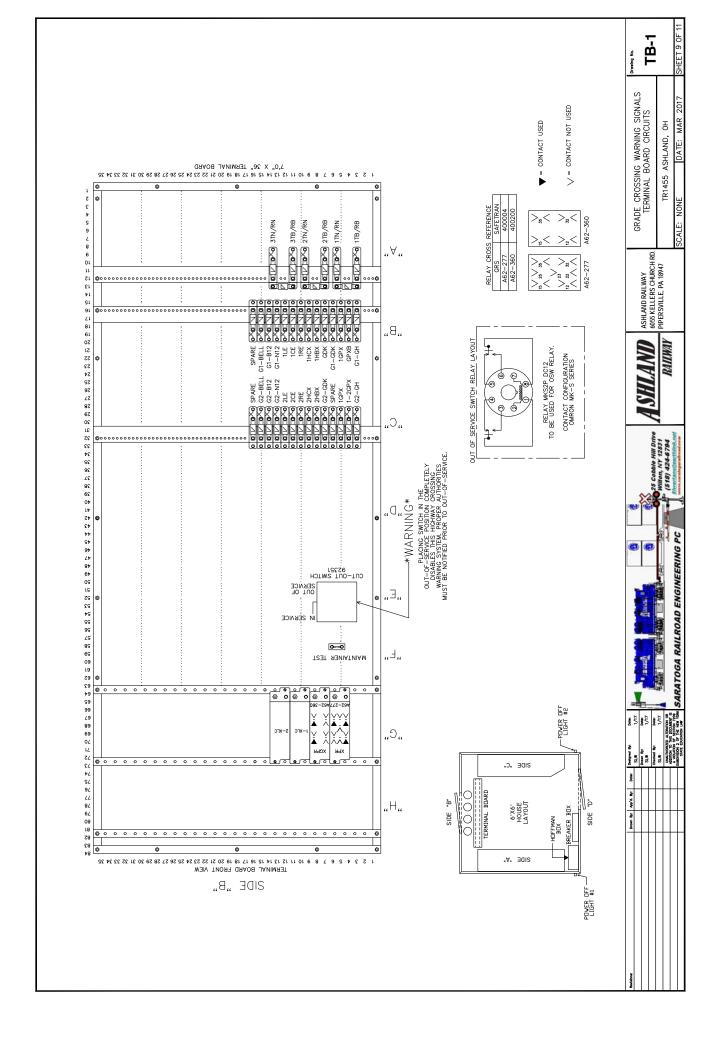


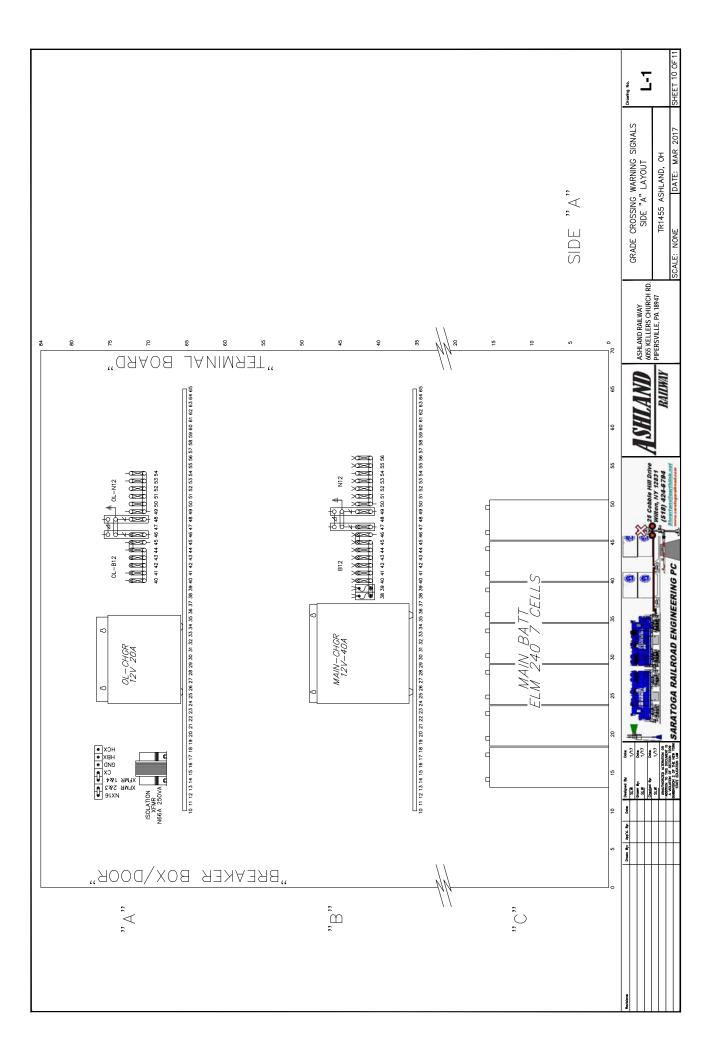


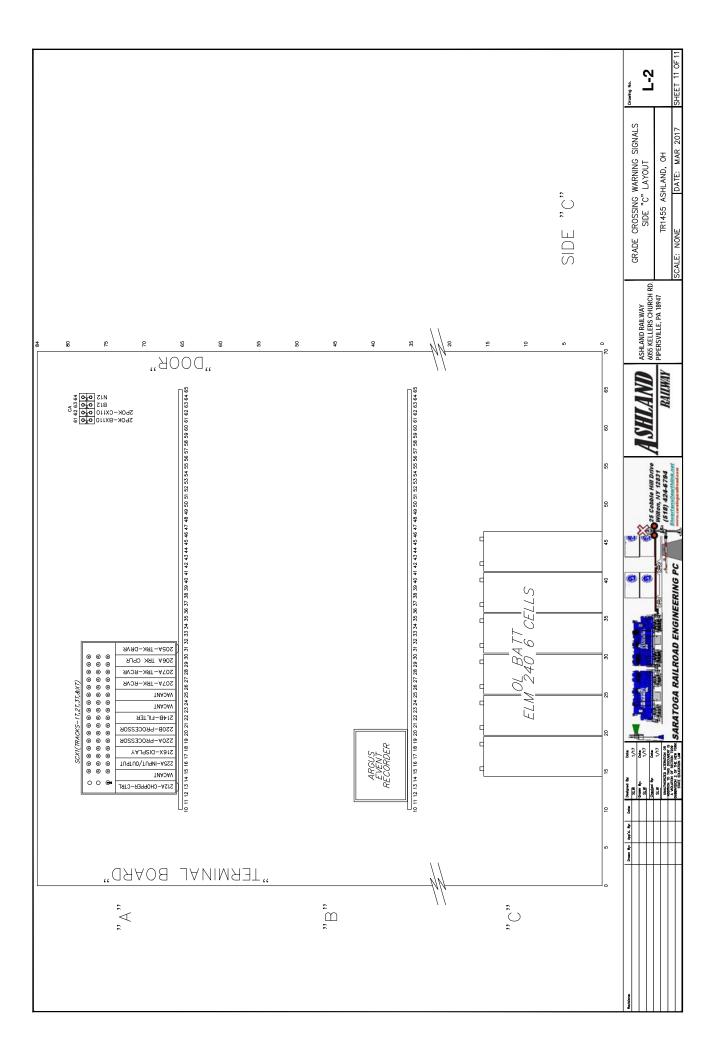


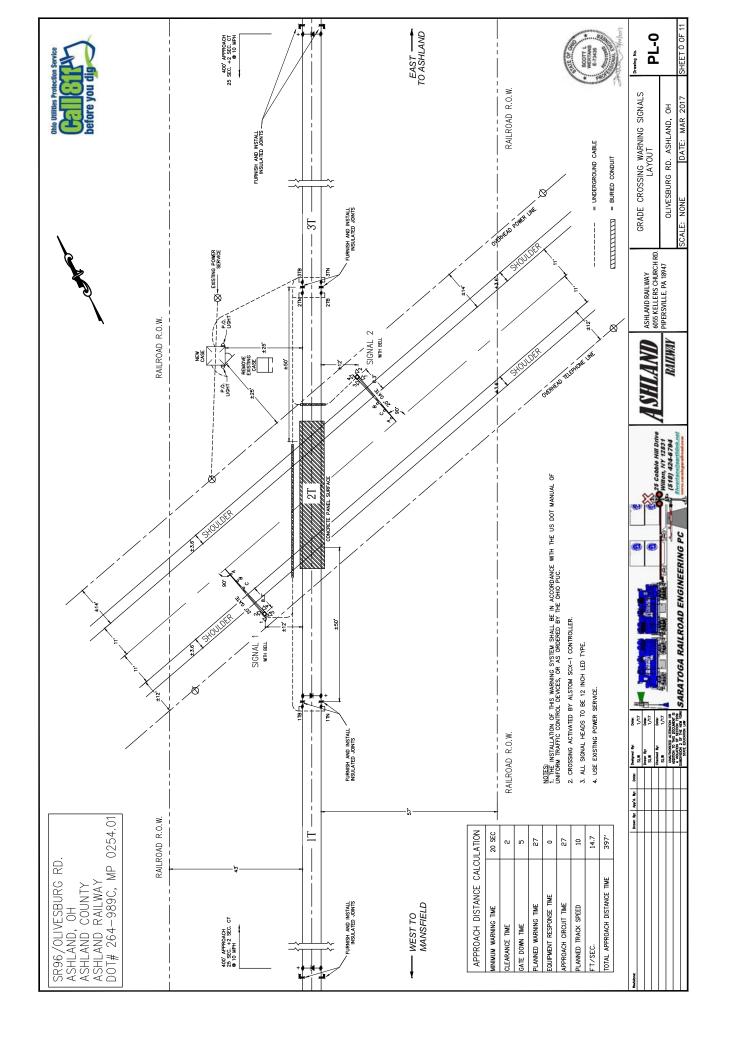


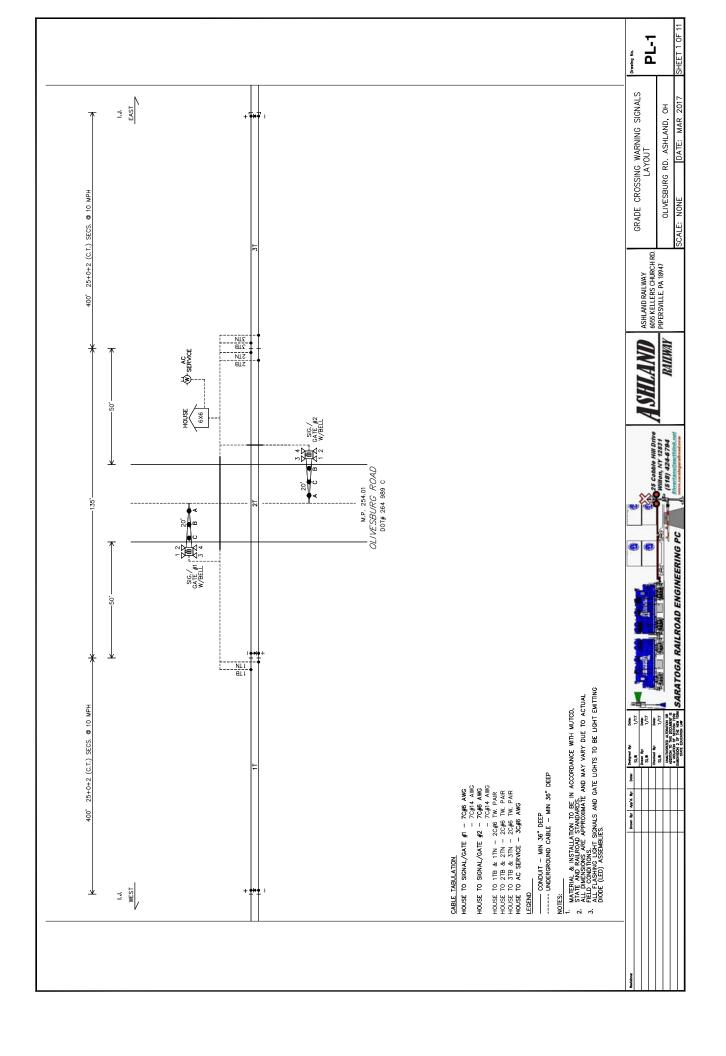


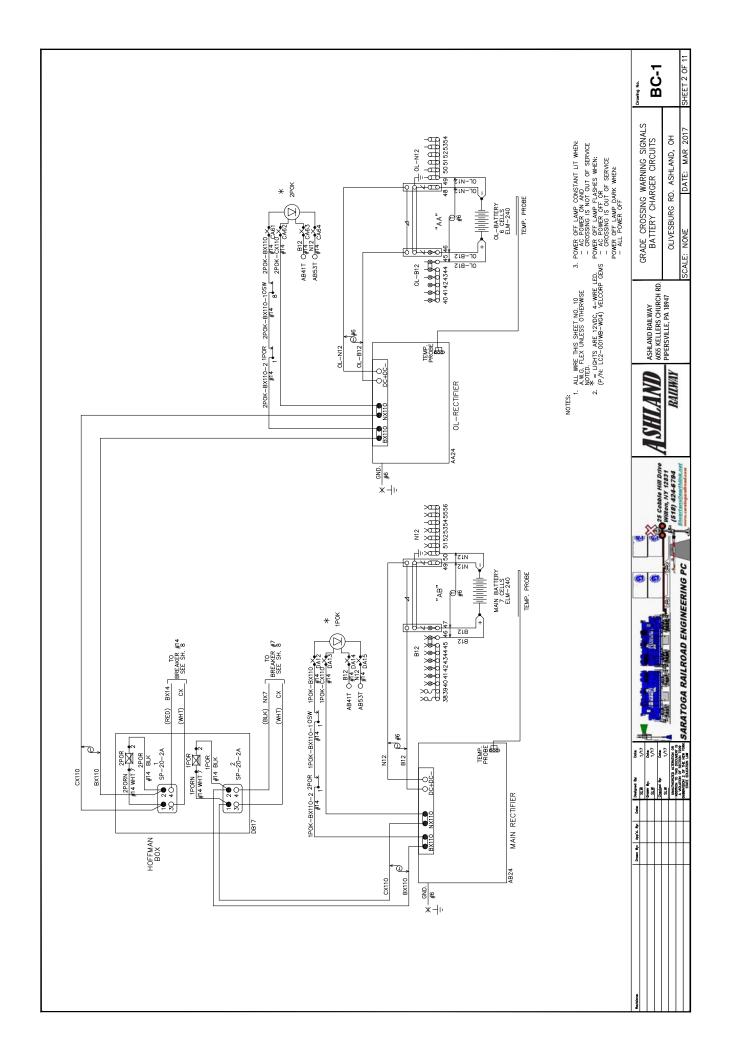


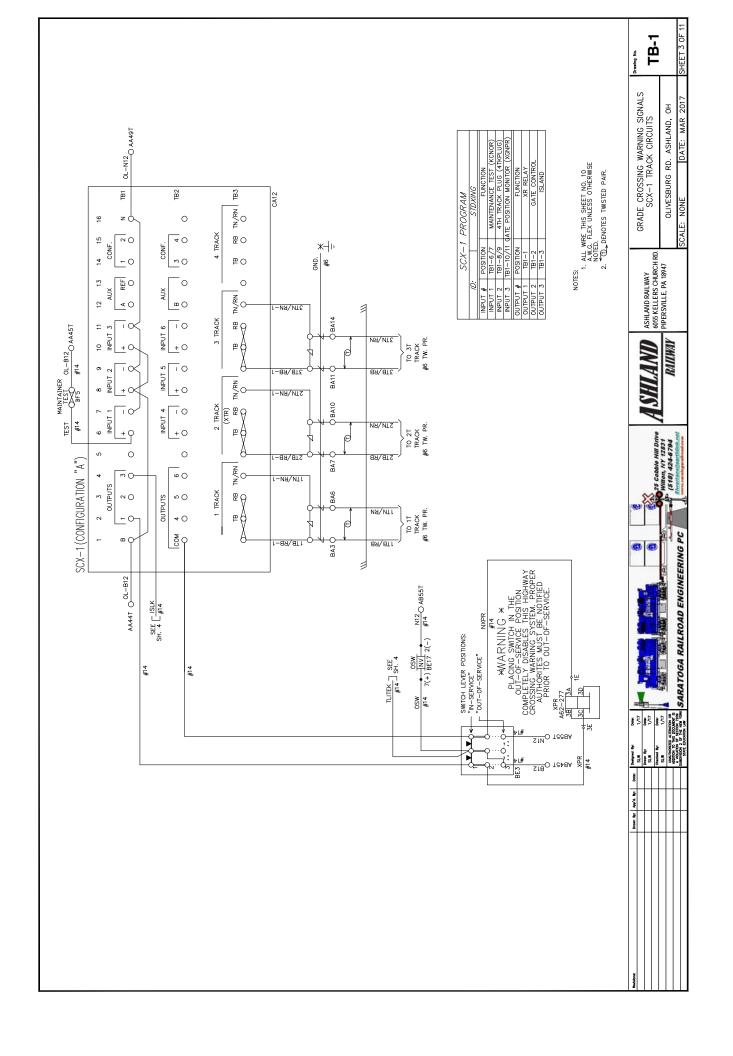


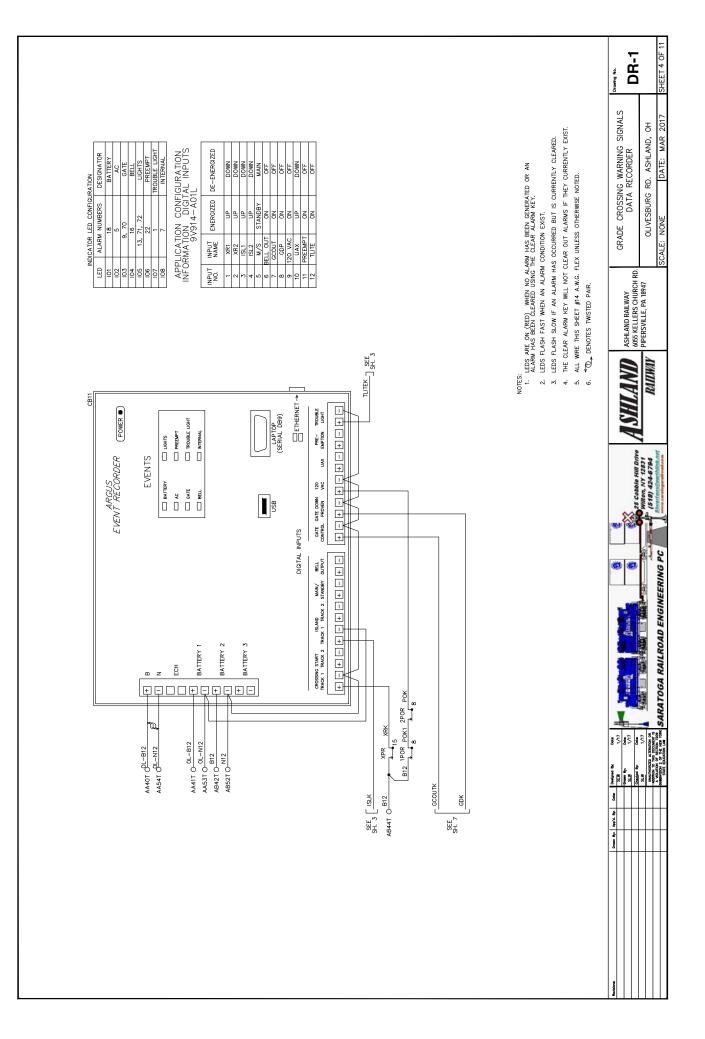


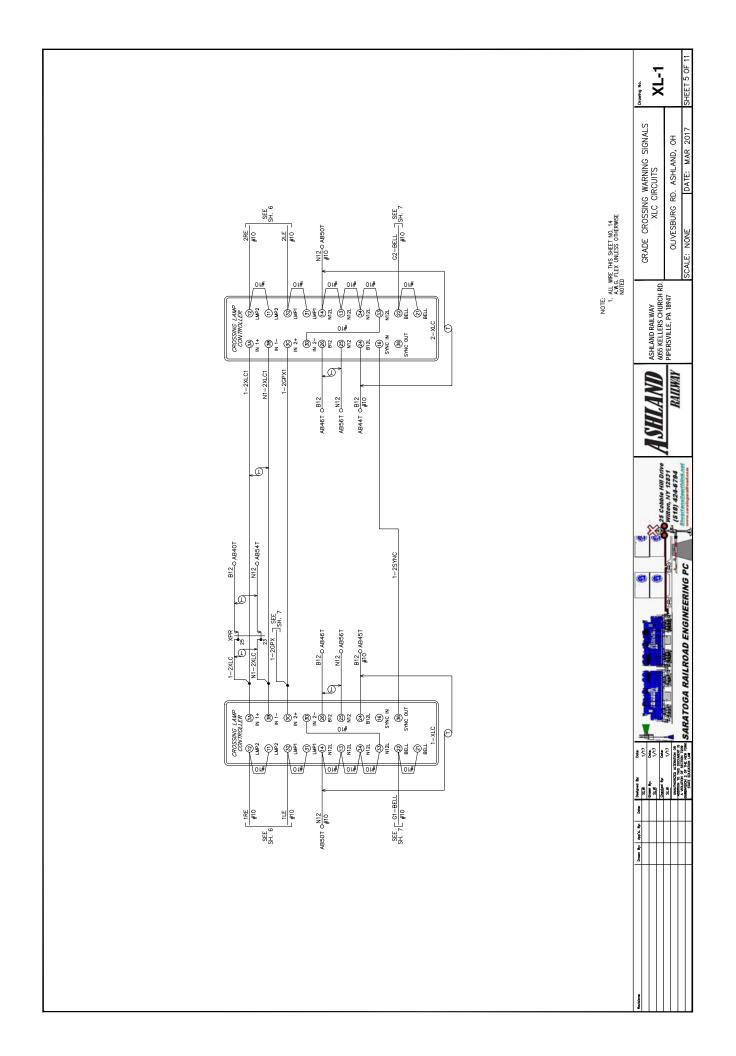


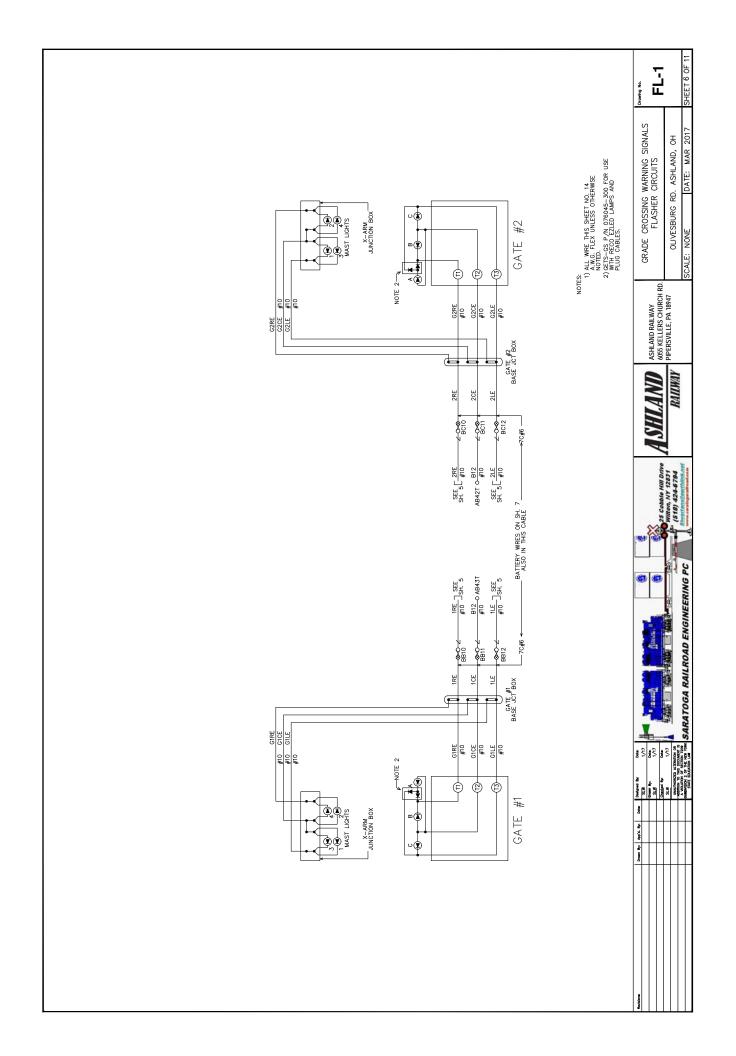


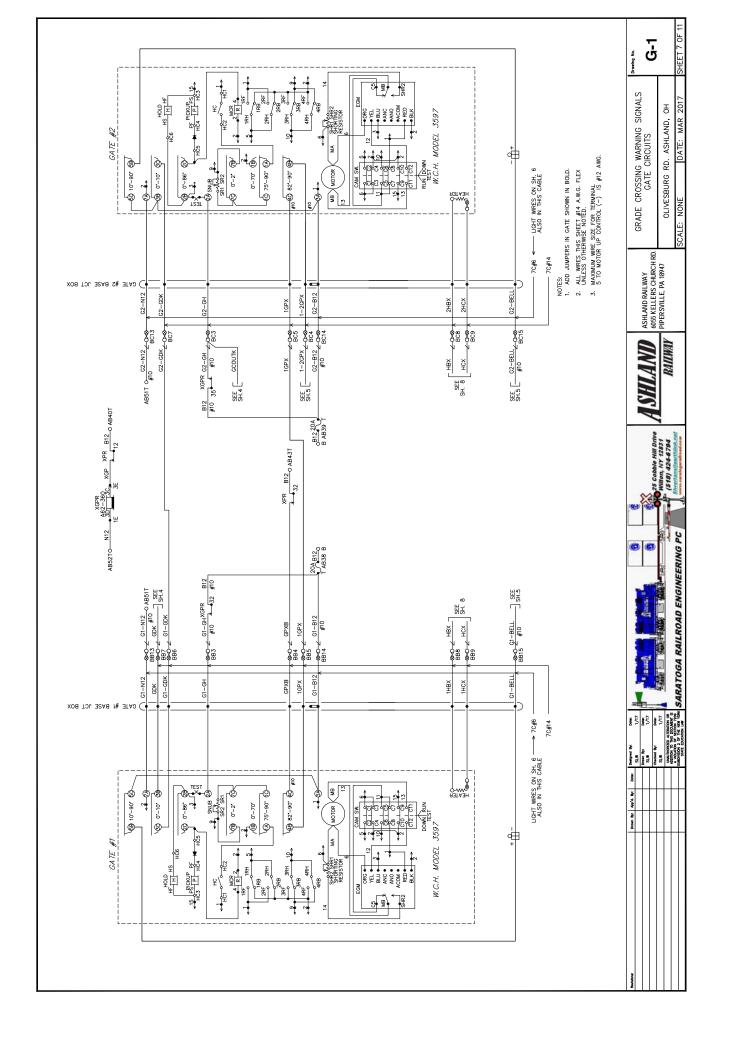


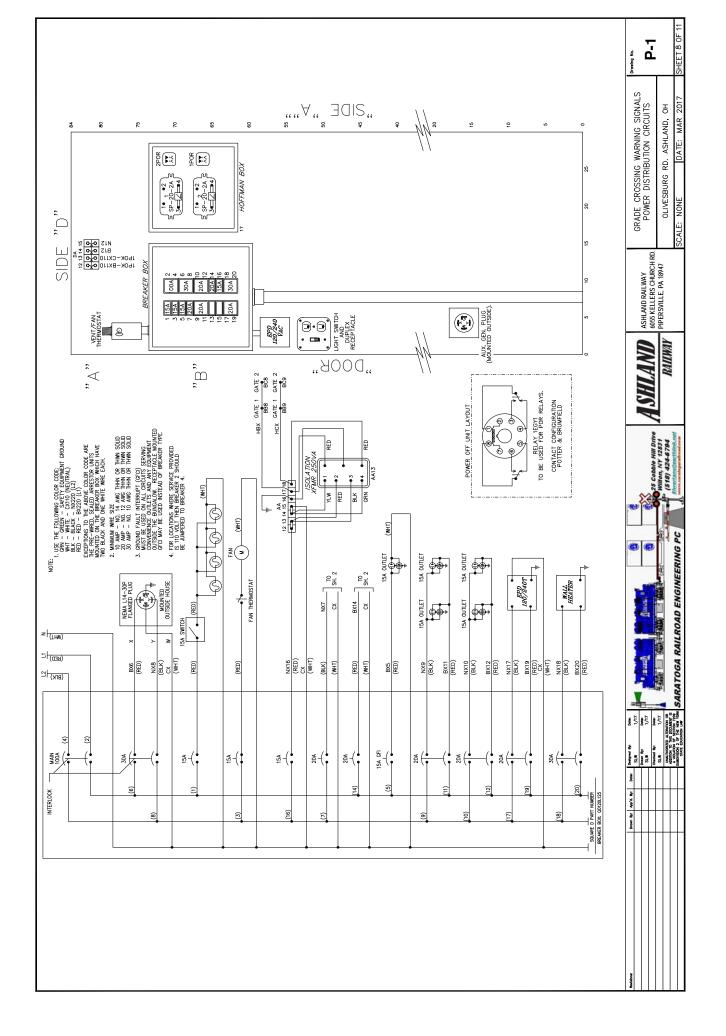


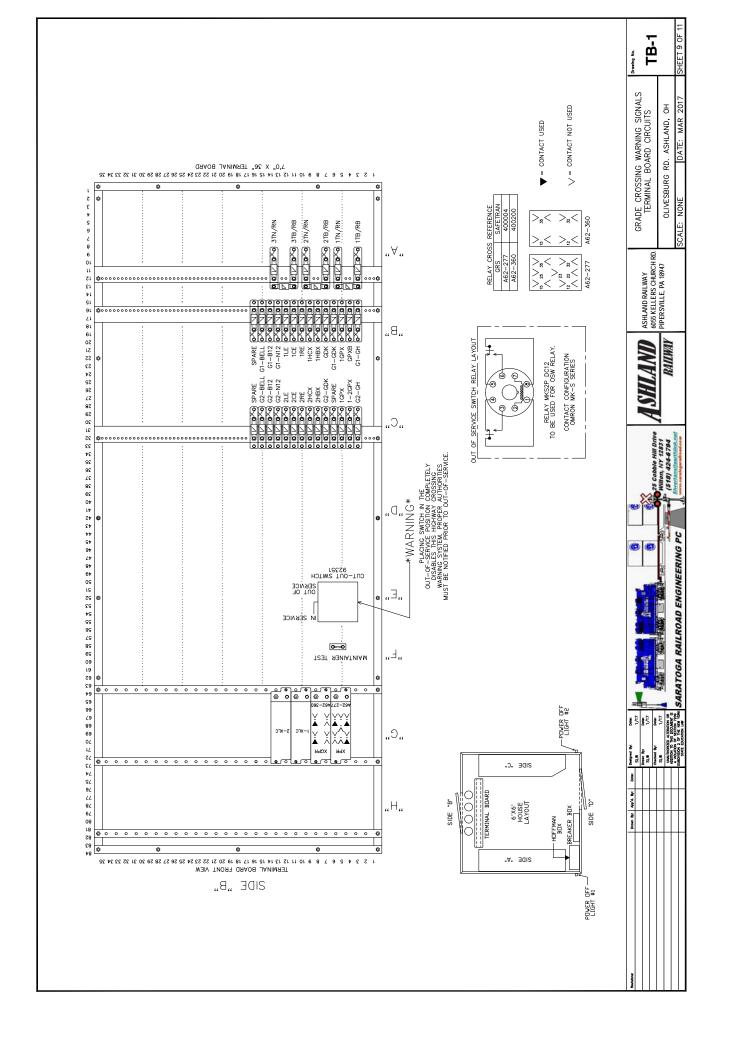


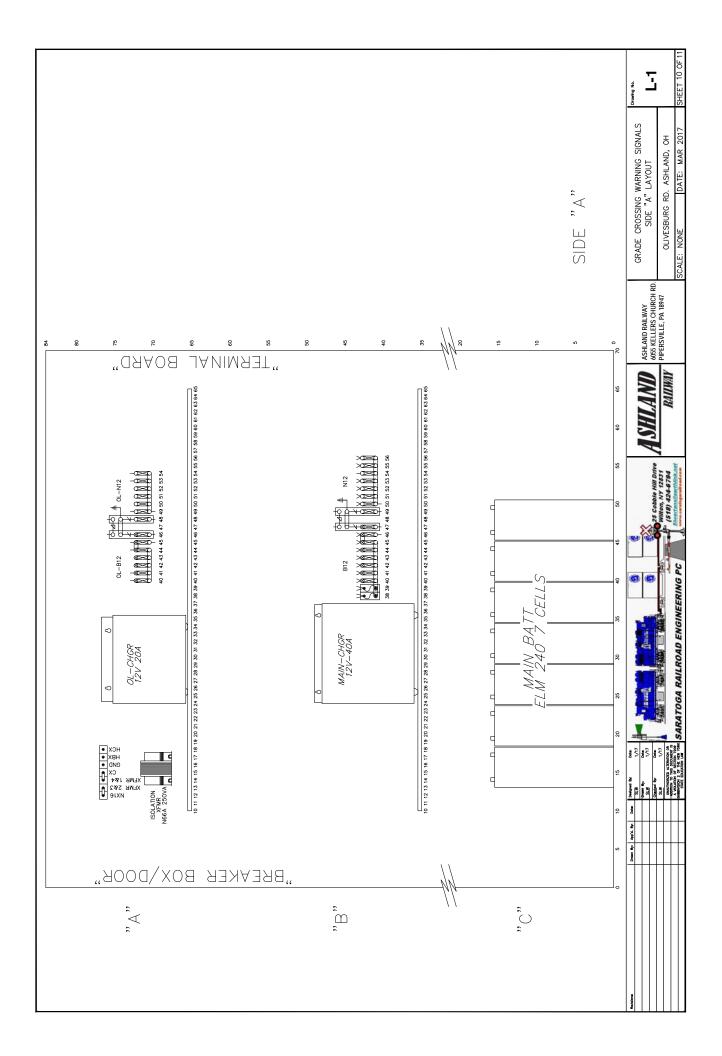


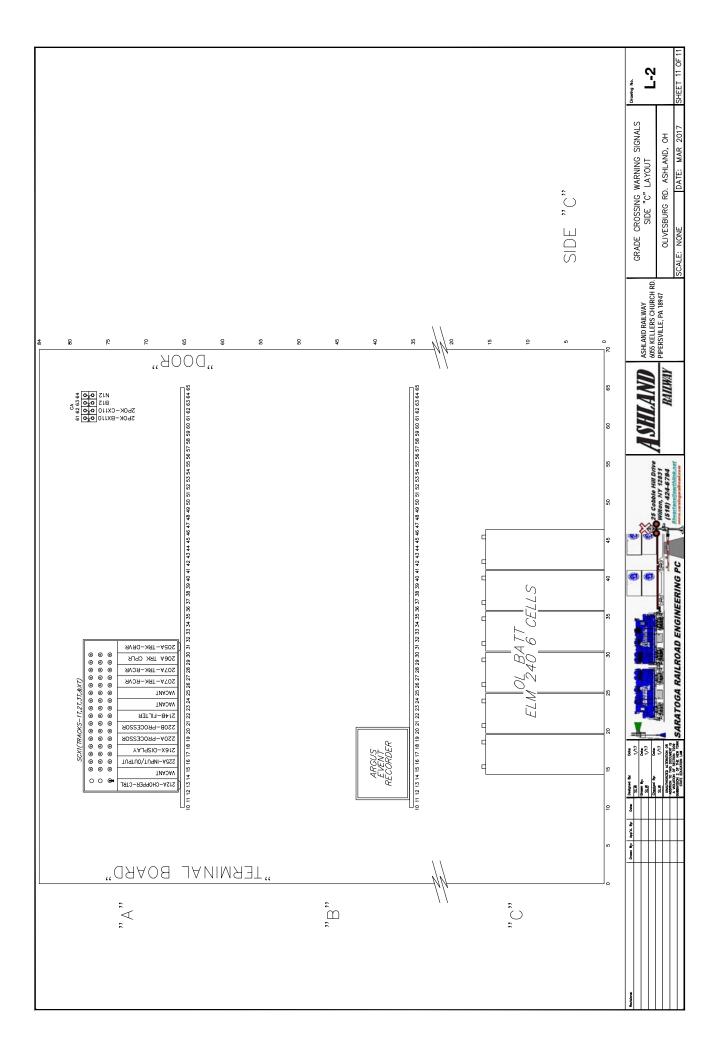


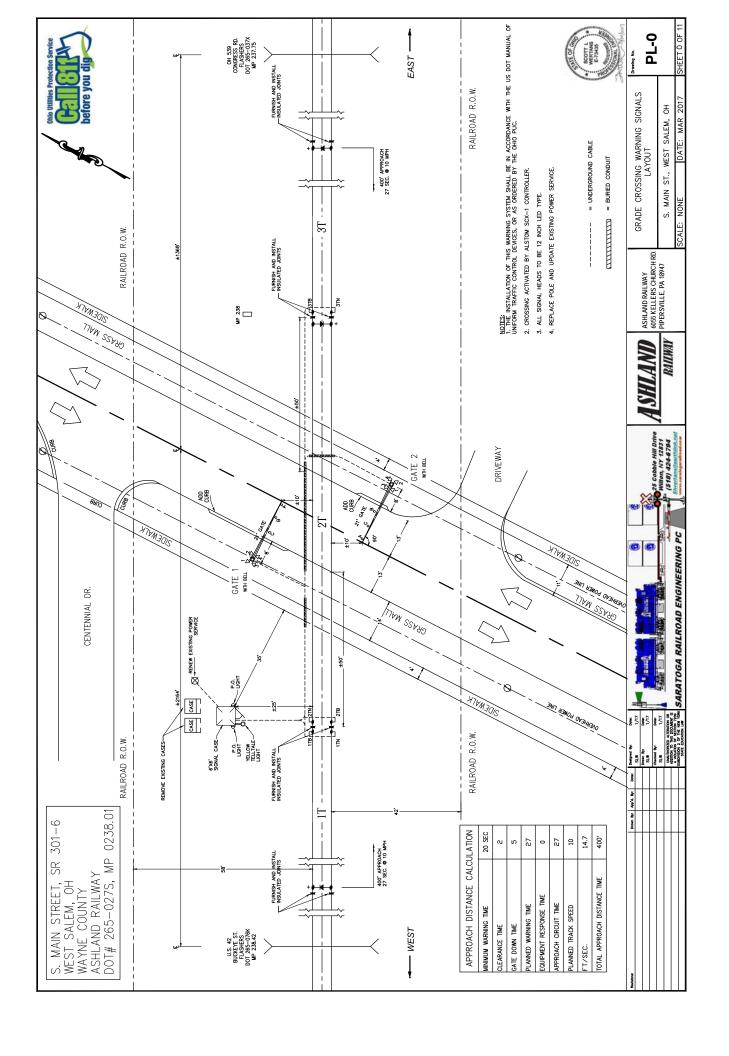


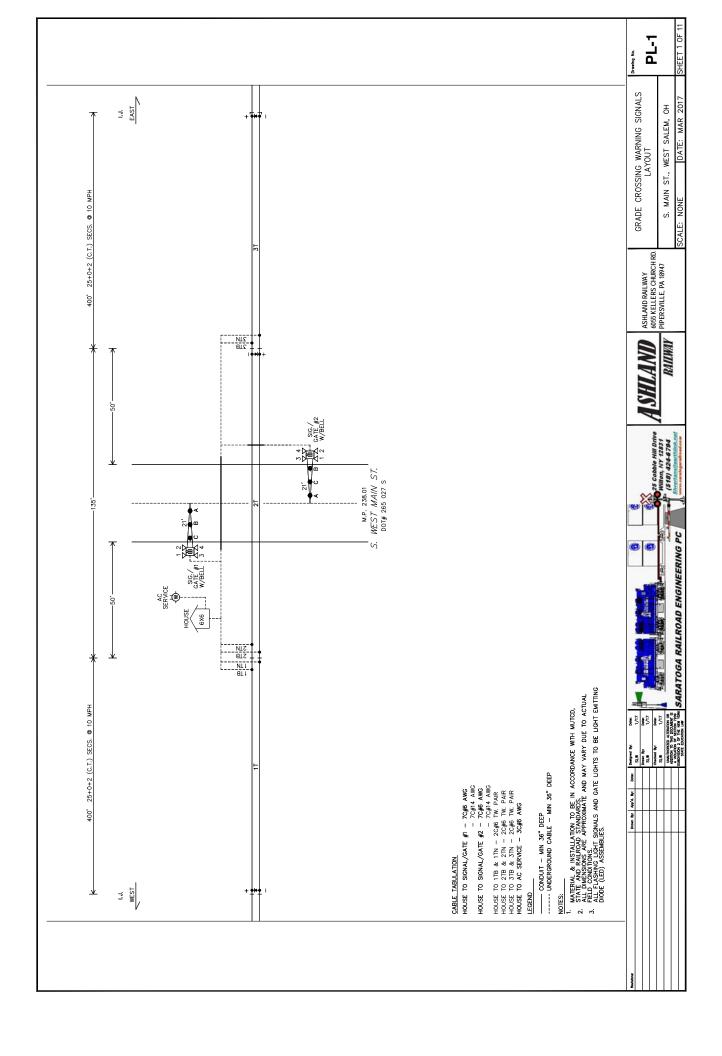


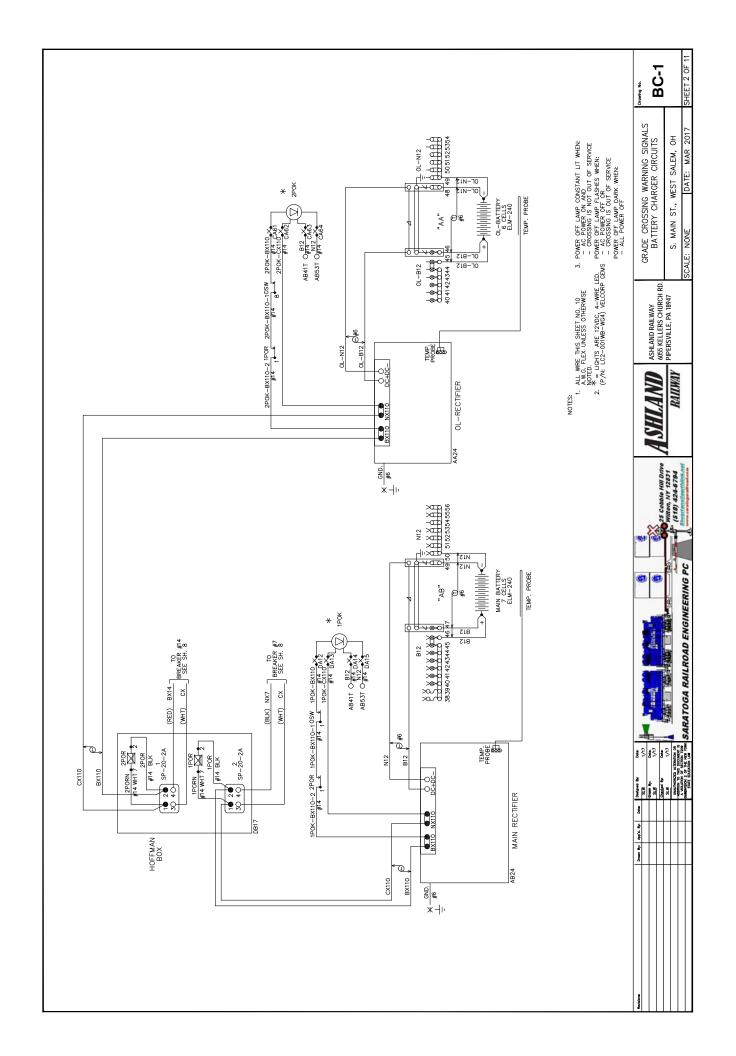


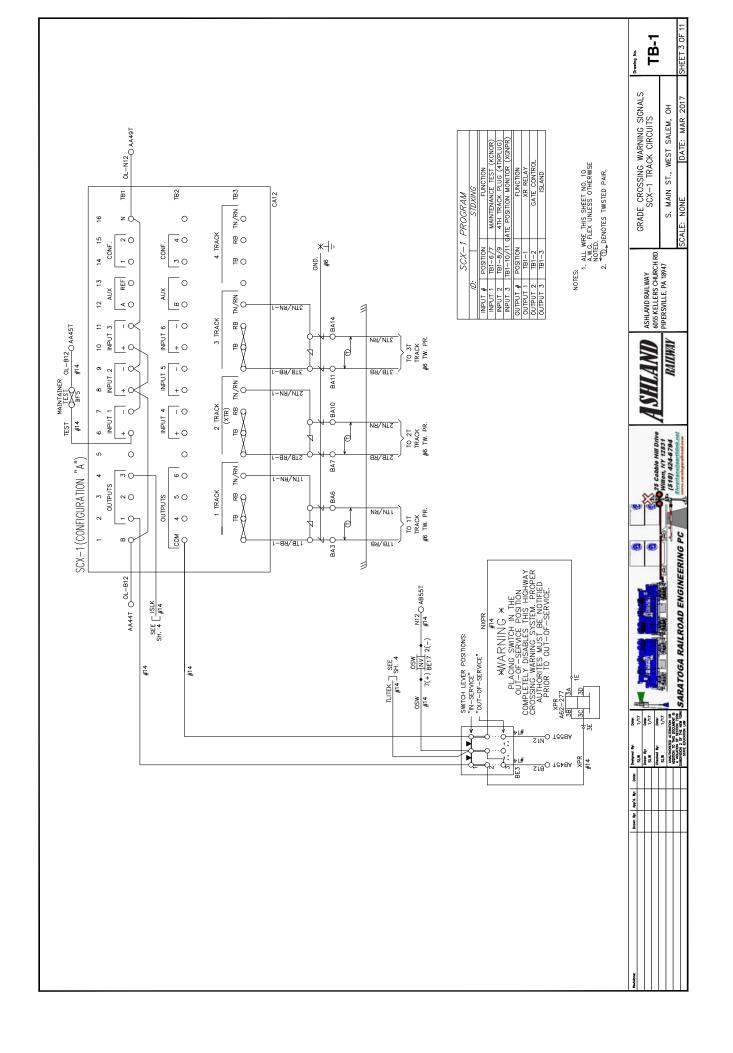


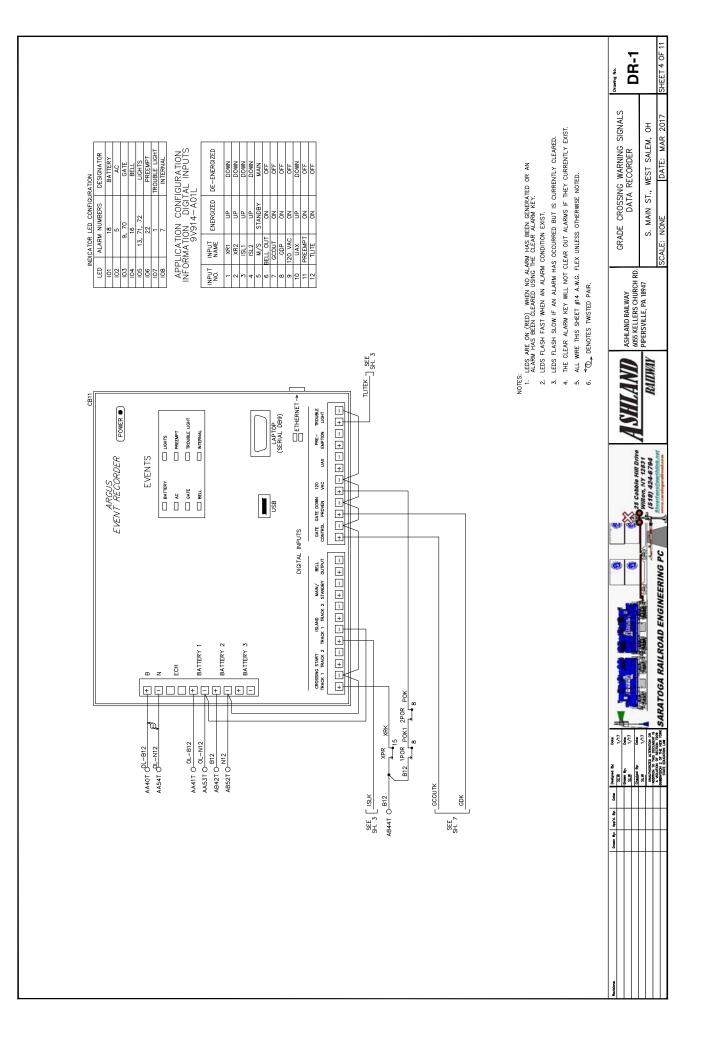


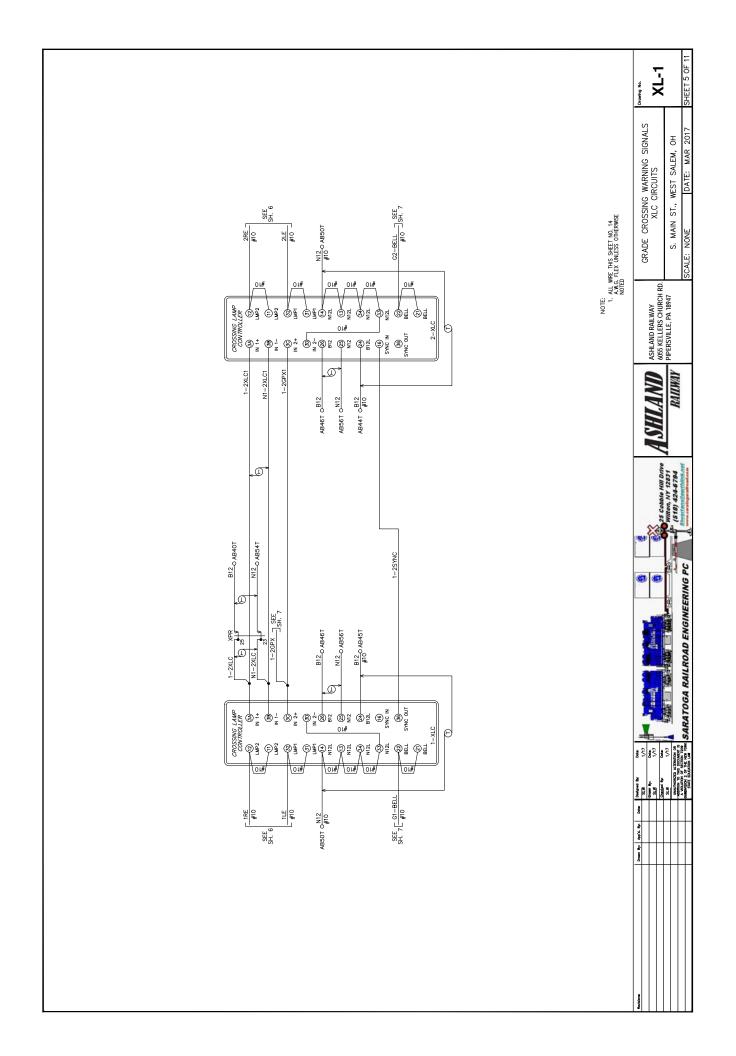


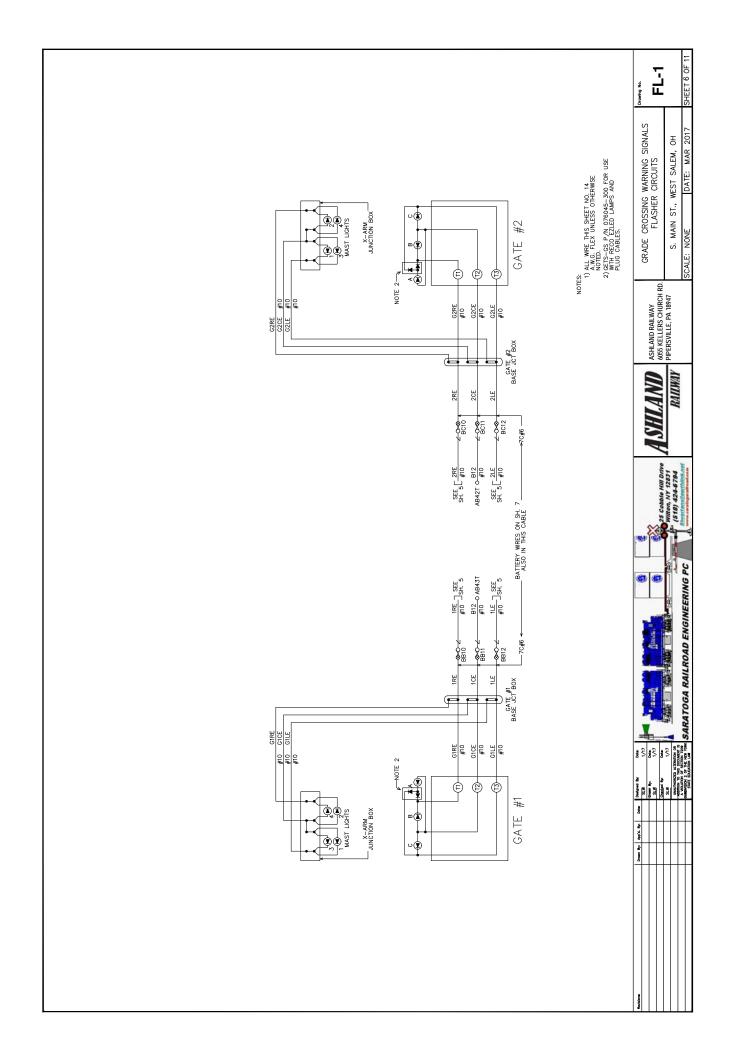


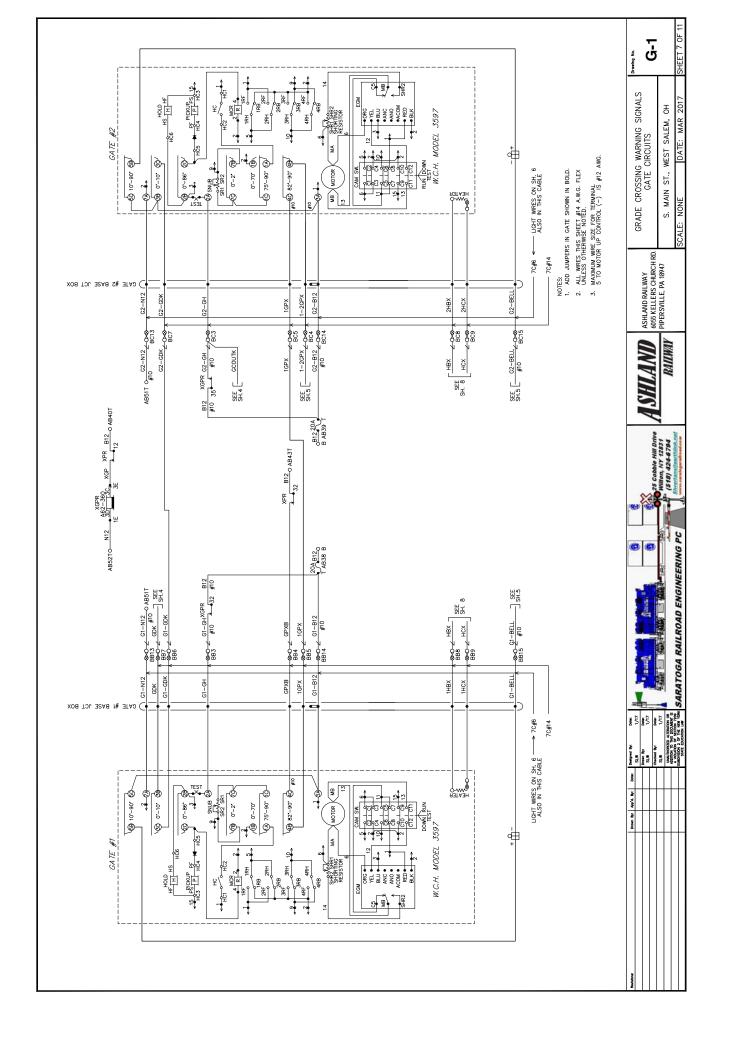


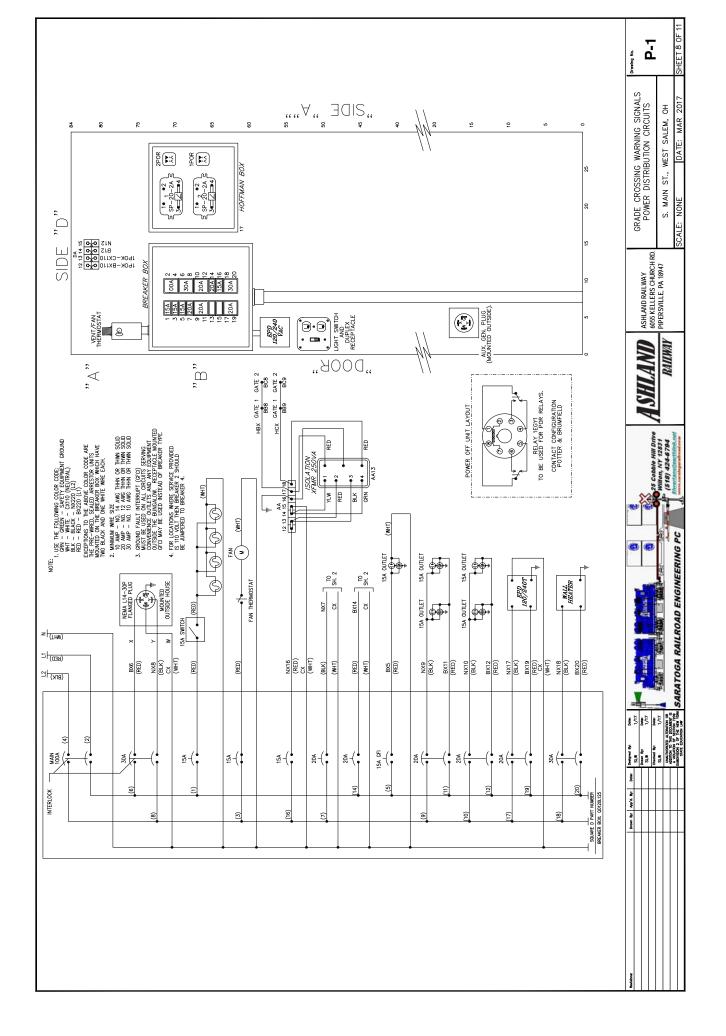


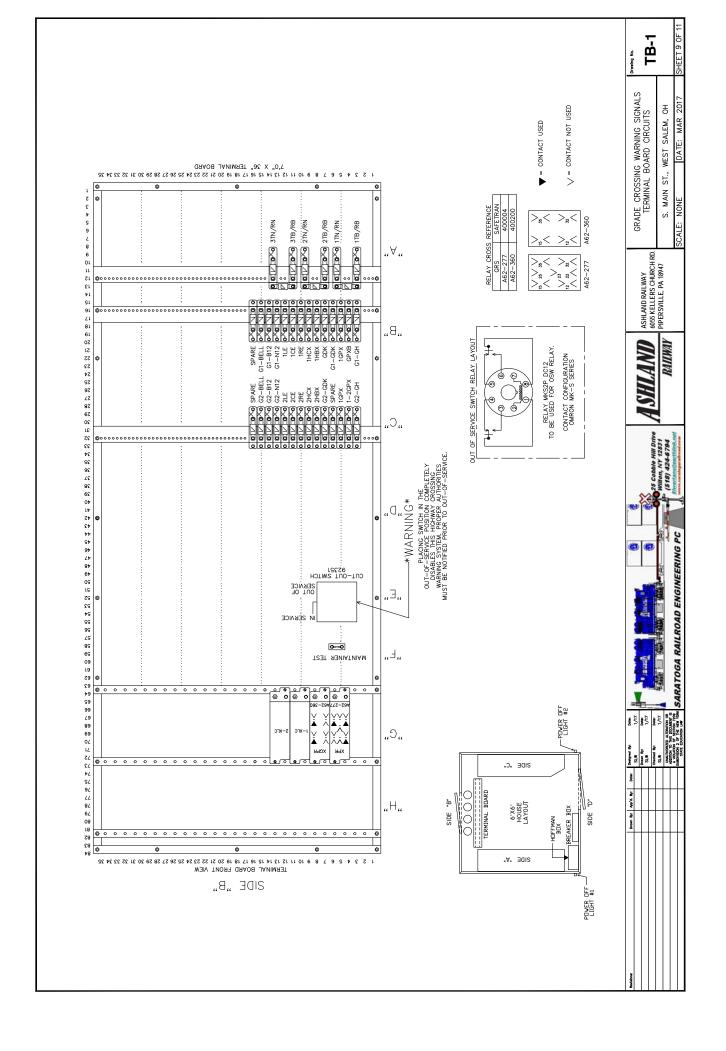


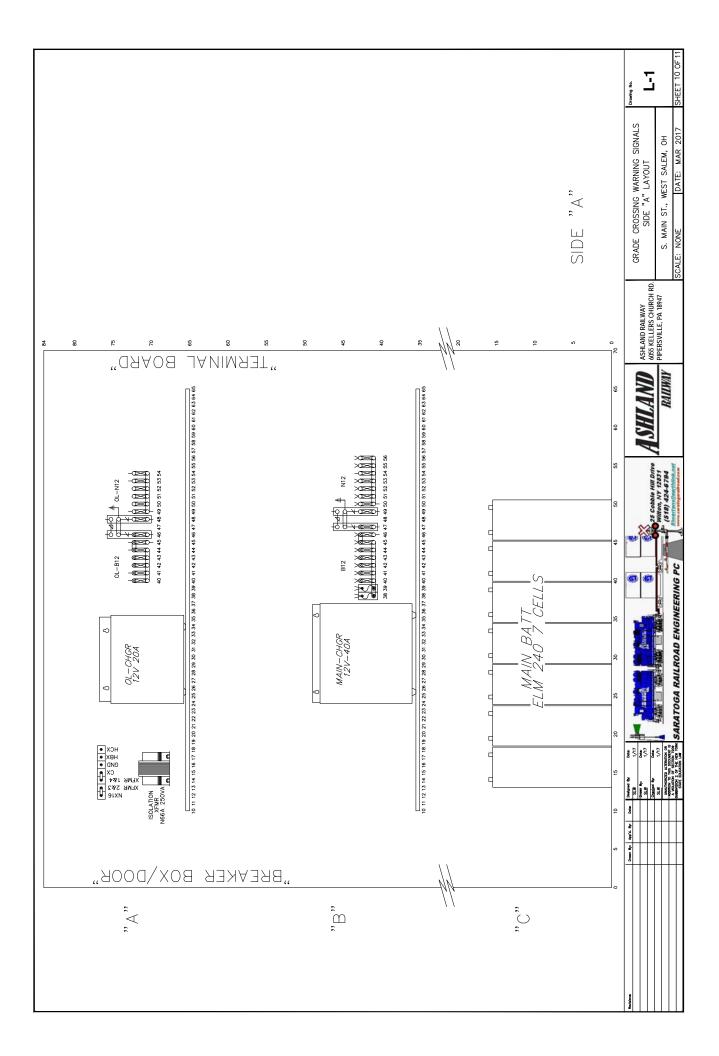


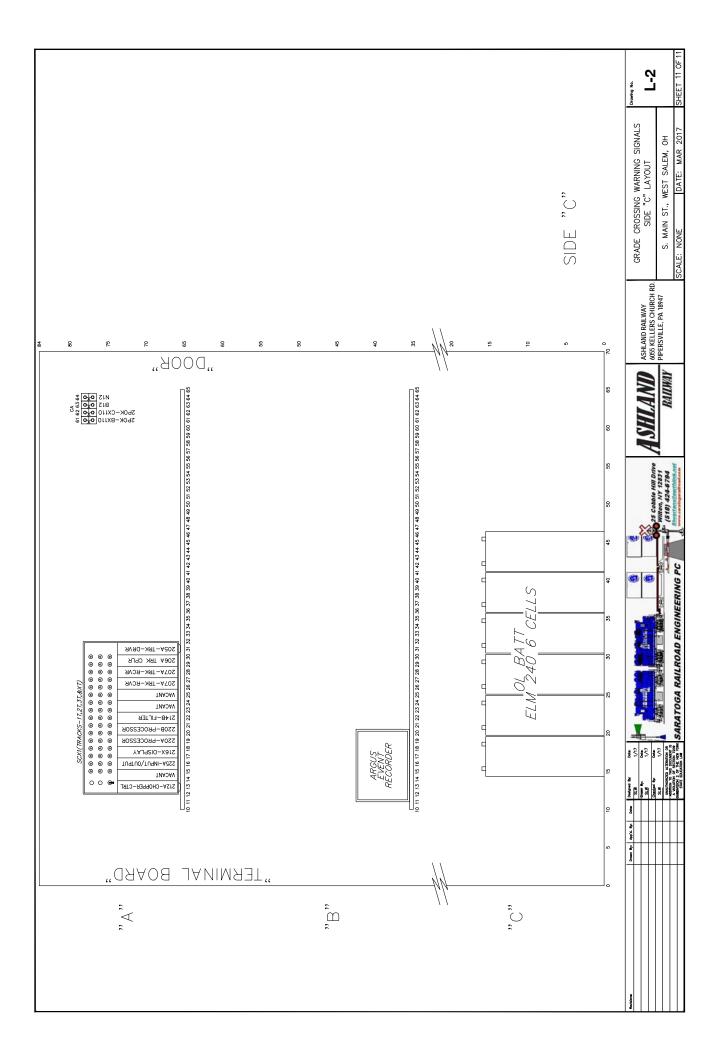














OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor Mark Policinski, ORDC Chairman

August 30, 2016

Mr. Don Cleland P O Box 1528 1427 Sprang Pkwy. Mansfield, Ohio 44903

RE:

Ashland County, TR 1455 DOT 264982E, PID 103087

Dear Mr. Cleland:

A diagnostic review was held at the above grade crossing on March 29, 2016. The crossing has been recommended for the installation of lights and gates.

ASRY is authorized to proceed with the site plans and cost estimates (PE) 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 ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the PE it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the PE to ORDC within 90 days of receipt of this letter.

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

The Project Manager for this project is Joe Reinhardt. He can be reached at (614) 644.0291, or Joe Reinhardt@dot.state.oh.us, if you have any questions.

Sincerely,

Joseph N. Reinhardt Project Manager

C;

George Martin, PUCO, Grade Crossing Planner ORDC (file)



www.rail.ohio.gov phone: 614.644.0306

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OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

August 30, 2016

Mr. Don Cleland P O Box 1528 1427 Sprang Pkwy. Mansfield, Ohio 44903

RE:

Ashland County, SR96-3.54 DOT 264989C, PID 103088

Dear Mr. Cleland:

A diagnostic review was held at the above grade crossing on March 29, 2016. The crossing has been recommended for the installation of lights and gates.

ASRY is authorized to proceed with the site plans and cost estimates (PE) 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.

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Sincerely,

Voseph N. Reinhardt

Project Manager

C:

George Martin, PUCO, Grade Crossing Planner ORDC (file)



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IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

August 30, 2016

Mr. Don Cleland P O Box 1528 1427 Sprang Pkwy. Mansfield, Ohio 44903

RE:

Warne Assistand County, SR 301 DOT 265027S, PID 103086

Dear Mr. Cleland:

A diagnostic review was held at the above grade crossing on March 29, 2016. The crossing has been recommended for the installation of lights and gates.

ASRY is authorized to proceed with the site plans and cost estimates (PE) 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.

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The Project Manager for this project is Joe Reinhardt. He can be reached at (614) 644.0291, or Joe.Reinhardt@dot.state.oh.us, if you have any questions.

Sincerely,

Joseph N. Reinhardt Project Manager

C: George Martin, PUCO, Grade Crossing Planner

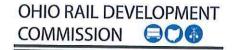
ORDC (file)



www.rail.ohio.gov

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY



Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	tuent – Railroad		Date:	3/29/2016
Location Data				
Street or Road Name:		出版計 特別信息		
Street of Road Name,				
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.:	264982E
County: ASD Township:	Milton	City: (In or Near)	Near Ashla	und
Railroad Name: Ashland Railway	Railroad Division: Pittsburgh			Branch/Line Name: ML Sal&Galion
Nearest RR Timetable Station: Pavonia			RR Milepos	The state of the s
On-Site Review Team		Barrier Park	OBJANIA STATE	230.7
(Include: Name Organization - Phone Number			1000	
1. Joe Spenhadt	ORAC	614-641	1-029	1
2. SEONSE MAR	AN PUCO	614.70	2 - 0'	107-
Envis Comme	KI MILTON	11 000	17-9	(U)
W 12 10 101 101 102 10	ICT PHILLOK			511430
4. CAITCA	M. ITON	ITUP 4	19-60	6-1784
5. DAVE PICKANDSON	Ashland PAIL	www 41	9-011	-4350
6. SCOTT PATSOLIC	ASHLAND RAI	IMAW U	19.50	5-2822
0		LVV/19 7	11130	2, 98%
7				The state of the s
8				
9				
	0.000			
Existing Traffic Control Devices				
Type of Warning Devices				
Type of Warning Devices	Installed	1?	(2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Quantity/Comments
Advance Warning Signs (condition?)	Installed Yes	d? □ No		Quantity/Comments
Advance Warning Signs (condition?) 'Stop' Signs	Yes Yes	1000		Quantity/Comments
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	∑ Yes ☐ Yes	□No		Quantity/Comments
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	Yes Yes Yes Yes	□ No ☑ No		Quantity/Comments
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	☐ Yes	□ No ☑ No ☑ No ☑ No ☑ No □ No		Quantity/Comments 2
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	Yes Yes Yes Yes Yes Yes Yes Yes Yes	□ No ☑ No ☑ No ☑ No □ No □ No ☑ No		Quantity/Comments 2
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Yes Yes	□ No ☑ No ☑ No ☑ No □ No ☑ No ☑ No ☑ No		Quantity/Comments 2
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Yes Yes	□ No ☑ No ☑ No ☑ No □ No ☑ No ☑ No ☑ No ☑ No ☑ No		Quantity/Comments 2
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes Yes	□ No ☑ No ☑ No □ No □ No ☑ No ☑ No ☑ No ☑ No ☑ No ☑ No		2.
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Yes	□ No	Number:	2-
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes	□ No	Number:	2 Length:
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Yes	□ No	Number:	2.
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Yes	No N	Number:	2 Length:
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Yes	No N	Number:	2 Length:
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination	Yes	No N	Number:	2 Length:
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes	□ No	Number:	2 Length:

Safety Data (Obtain c	rash repo	rts, if possible, prior to review)	
ACCOUNT AND ACCOUNTS AND ACCOUN	I	cial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0		
Hazard Ranking	4835	Date Run: 1/12/2016	1
Railroad Data			
Railroad Characteris	itics	Initial Information (from database)	Revised
Total trains per day		2	
< I per day			
Day thru trains			
Night thru trains			
Daytime switching moveme		2	
Nighttime switching moven	nents		
Total number of tracks		1	ONE
Number of main tracks		1	
Number of other tracks		1 Side Track	
Maximum train speed		10	
Typical train speed		10	.—
Amtrak		**************************************	
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	ns occupy cro	ossing at the same time? 🔲 Yes 🖈 No	
Can one train block the motor	rists' view of	another train at crossing? 🔲 Yes (Explain b	elow) 🐧 No
Can one or more tracks be eli		 	
		roadway within 100 ft of this crossing?	Yes 🛭 No
If yes, Crossing DOT #(if d If yes, distance		asurement between track centerlines at close	ost point along roadway)
	(take mea	astrement between track centernies at closi	est point along roadway)
Roadway Data			
Local Highway Authority:		Milton Township	
Roadway Characteri	stics ————	Initial Information (from database)	Revised
Average daily traffic		139 (2013)	
Highway paved		X Yes No	Yes No
Roadway Surface: 🔀 Blacktop	Gravel	Concrete Other	
Roadway width: 10 ft.			
Number of highway lanes	***************************************	2	
Urban or Rural		Rural	
Vehicle Speed: 55 MPH			
School Bus Operation: No			
Hazardous Materials Trucks:		Yes <u>.05</u> Amount	***************************************
<u> </u>	es		
Is the shoulder surfaced? 🖺 1		Yes	
Is there existing guardrail along	g roadway in	crossing vicinity? 📝 No 🔲 Yes	
Is stopping site distance adequate? (See Table 2) 🔲 Yes 🂢 No If no, deficient approach(es)			

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Quadrant No. Curb and Gutter:	Quadrant SW 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	[X]. None
Pedestrians: No Yes	
Is sidewalk present? No Yes	
Is there a nearby intersection that could cause queuing over the c If yes, Distance	rossing? 🔯 No 🔲 Yes
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? 🔘 No 👚 Yes	
Is a roadway improvement project (e.g. widening, turn lanes, near location in the foreseeable future? No Yes If yes, Improvement type Lead Agency	by new or upgraded traffic signal, sidewalk) planned at or near this Timeline/completion -
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	•
Too many 5 chool	buses
Type of Development ☑ Open Space ☐ Institutional Location of nearby	v prhople:
Residential	Jementory - Ashland
Utility Information	
Is commercial power available? No Yes	
Utility Provider (Company Name) On 10 Edison	Phone Number
	Thore realises
Nearest Available Power Source	
What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water	术 Telephone
Other	·
	Unknown
Comments:	

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:	
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):	
Environmental:	
Other:	
3/29/16	
3/6	

Diagnostic Team Recommendations	
Diagnostic Team Recommendations	Quadrants Needed
Install/upgrade active devices	Quadrants Needed
Automatic Flashing Lights (AFLS)	17-AIA-
AFLS /Cants	
AFLS / Cates	NE I SW
AFLS / Gates AFLS / Gates / Cants	100 (2710
Bells / number	
Upgrade circuitry / type	
☐ Sidelights ☐ Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Comments:	
Poor Usability because of any	le of freel & roadwag
	/
☐ 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):	
Can-	
Field Dimensions	
ried Dimensions	
\pm $ \mathcal{I}_{\mathcal{V}} $	
Show North	
Sidewalk , Direction	
- '	
Parkway '	
Roadway	
· , , <u> </u>	
Roadway	
<u> </u>	
, <u> </u>	
Parkway	
· · · · · · · · · · · · · · · · · · ·	
Sidewalk	
 	
+ +	

Field Sketch	
Eletric Polar	OPEN
Time	EL
	P. E. S.
Mood Tield>	Sazini 2
	BUN
Crossing Angle 0-29° 30-59° 60-90° Measur	red in Quadrant?

TABLE I

Clearing Sight Distances

Maximum Authorized Train	Distance (dT) Along
Speed	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
	<u> </u>

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
/5,8	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.





Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	onstituent – Railroad		Date: 3/29/2016	
Location Data	M. Asia Cara Cara			
Street or Road Name:			U	
Route/Road Number (i.e. Twp., Co., SR or US) SR 96-3.54			US DOT No.: 264989	ЭС
County: ASD Townsh	nip:	City: (In or Near)	Near Ashland	
Railroad Name: Ashland Railway	Railroad Pittsburg Division:	h	Branch/Line Name:	ML Sal&Galion
Nearest RR Timetable Station: Ashland			RR Milepost: 254.0	Ĭ
On-Site Review Team				
5. <u>granous</u>	ASHLAND PAILWAY WSON ASHLAND R. ANTIN PUCO ODOT	4 419-5 41 an/4/1	644-0291 525-2822 18-546-4350 1-752-9107 -201-7028	
Type of Warning Devices	Install	ed?	Quantity	
				/Comments
Advance Warning Signs (condition?)	∑ Yes	□No		/Comments වරට
Advance Warning Signs (condition?) 'Stop' Signs	Yes	☐ No		
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	Yes	□ No	2 G	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	☐ Yes ☐ Yes ☐ Yes ☐ Yes	□ No □ No □ No	2 6	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	☐ Yes ☐ Yes ☐ Yes ☐ Yes	No No No No	2 G	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	☐ Yes	No No No No No No	2 6	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	☐ Yes	☐ No	2 6	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	☐ Yes	☐ No	2 G	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes Yes	No	2 G	500 cl
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Yes Yes	No	2 G	os el
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Yes Yes	No	2 G	Descol
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Yes Yes	No	2 G ² 2 - C 2 Number: Number:	500 cl
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Yes Yes	No	2 G	Descol
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Yes Yes	No	2 G ² 2 - C 2 Number: Number:	Descol
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes Yes	No	2 G ² 2 - C 2 Number: Number:	Descol
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination	Yes Yes	No	2 G ² 2 - C 2 Number: Number:	Descol
Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes Yes	No	2 G ² 2 - C 2 Number: Number:	Descol

Carlotte Control of Co	iyash repo	orts, if possible, prior to review	A)
	Ini	tial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0		
Hazard Ranking	3827	Date Run: 1/8/2016	
Railroad Data		Date (Kull. 176/2018	
Railroad Characteris	stics	Initial Information (from databas	
Total trains per day		2	e) Revised
< 1 per day			
Day thru trains			
Night thru trains			
Daytime switching moveme		2	
Nighttime switching movem	nents		
Total number of tracks		1	
Number of main tracks		1	
Number of other tracks			
Maximum train speed		10	
Typical train speed Amtrak		10	
			
If non-gated crossing, is clearing	g sight distan	ce adequate in all quadrants? (See Table 1)
If multiple tracks, can two trains	s occupy cro	ssing at the same time? Yes	
Can one train block the motori	sts' view of a	another train at crossing? Tyes (Explain	holoud Fifth
Can one or more tracks be elim	ninated thro	ugh the crossing? Tyes K No	n below) 📈 No
Are there other track(s) crossir If yes, Crossing DOT #(if dif	ng this same fferent)	roadway within 100 ft of this crossing?	Yes 🛛 No
Are there other track(s) crossing If yes, Crossing DOT #(if dif If yes, distance	ng this same fferent)	roadway within 100 ft of this crossing?	
Are there other track(s) crossir If yes, Crossing DOT #(if dif	ng this same fferent)		
Are there other track(s) crossing If yes, Crossing DOT #(if dif If yes, distance	ng this same fferent)	roadway within 100 ft of this crossing?	
Are there other track(s) crossing If yes, Crossing DOT #(if dif If yes, distance	ng this same fferent) _ (take mea	roadway within 100 ft of this crossing? [surement between track centerlines at classics.] State of Ohio	osest point along roadway)
Are there other track(s) crossing If yes, Crossing DOT #(if diff yes, distance	ng this same fferent) _ (take mea	roadway within 100 ft of this crossing? [surement between track centerlines at classical content of the conten	osest point along roadway)
Are there other track(s) crossing If yes, Crossing DOT #(if diff of lf yes, distance	ng this same fferent) _ (take mea	roadway within 100 ft of this crossing? [surement between track centerlines at classical content of the conten	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if diff of yes, distance	ng this same fferent) (take mea	surement between track centerlines at classification. State of Ohio Initial Information (from database) 3171 (2014) X Yes	osest point along roadway)
Are there other track(s) crossing If yes, Crossing DOT #(if dif If yes, distance	ng this same fferent) (take mea	roadway within 100 ft of this crossing? [surement between track centerlines at classical content of the conten	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if diff of yes, distance	ng this same fferent) (take mea	surement between track centerlines at classification. State of Ohio Initial Information (from database) 3171 (2014) X Yes	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if diff of yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: ft.	ng this same fferent) (take mea	surement between track centerlines at classing state of Ohio Initial Information (from database) 3171 (2014) X Yes No Concrete Other	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if difference of the If yes, distance of the	ng this same fferent) (take mea	surement between track centerlines at classification of this crossing? State of Ohio Initial Information (from database) 3171 (2014) X Yes No Concrete Other	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if diff if yes, distance	ng this same fferent) (take mea	surement between track centerlines at classification of this crossing? [State of Ohio Initial Information (from database) 3171 (2014) X Yes No Concrete Other 2 Rural	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if did If yes, distance	g this same fferent) (take mea	surement between track centerlines at classing state of Ohio Initial Information (from database) X Yes No Concrete Other Rural 6 Amount	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if diff of yes, distance	g this same fferent) (take mea	surement between track centerlines at classification of this crossing? [State of Ohio Initial Information (from database) 3171 (2014) X Yes No Concrete Other 2 Rural	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if diff If yes, distance	g this same fferent) (take mea	surement between track centerlines at classing state of Ohio Initial Information (from database) X Yes No Concrete Other Rural 6 Amount	Revised
Are there other track(s) crossing If yes, Crossing DOT #(if did If yes, distance	g this same fferent) (take mea	surement between track centerlines at classing? [State of Ohio Initial Information (from database) 3171 (2014) X Yes	Revised

Quadrant NE Curb and Gutter:	Quadrant SW 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: [V] No Yes	
Is sidewalk present? 📈 No 🔲 Yes	
Is there a nearby intersection that could cause queuing over the c	rossing? 🗹 No 🔲 Yes
If yes, Distance	
Is this intersection signalized? \(\overline{1}\)\(\nabla \)	
Are the signals currently interconnected with the existing cross	sing warning devices? 🇹 No 🔲 Yes
ls there a 'Do not Stop on Track' sign? 📈 No 👚 Yes	
Is a roadway improvement project (e.g. widening, turn lanes, near location in the foreseeable future? No Yes If yes,	by new or upgraded traffic signal, sidewalk) planned at or near this
Improvement typeLead Agency _	Timeline/completion -
Is it the consensus of the Diagnostic Review Team that this is a p	otential closure project: WNo Yes
Explain reasons:	
Ttall house Xin	1
Type of Development	
Open Space Institutional Location of nearb	y schools:
☐ Industrial ☐ Commercial ☐ () ← o	Syschools: Achlard
Utility Information	
Is commercial power available? No Yes Utility Provider (Company Name)	
Utility Provider (Company Name)	Phone Number
Nearest Available Power Source	
What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water Other	Telephone Fiber Optic Cable Sanitary Sewer
Is(are) there potential utility conflict(s) Yes No	[∕√] Unknown
Comments:	

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:
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
Environmental:
Other:
Vunei.
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2/29/10
V

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	Zi, NE SW
AFLS / Gates / Cants	
☐ Bells / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
☐ Bungalow placement & offset from rail & highway	
Other (define)	
Comments:	
I and son sunds	s had se of sundice sundere
leople cano see signed	1 Classical Survey
HISS. Folks try to	beat the flashing lytism troin.
☐ Install/upgrade traffic signal preemption) 4
☐ No improvements needed	
Other (define)	
Li Cana (cama)	
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
acknowledgement):	
AM. (2m.	
MY F Z	
· · ·	
Field Dimensions	
Field Differsions	
Show North	
Sidewalk ' Direction	
Parkway '	
Roadway	
noticity	
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Roadway	
Parkway	
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Cidth	
Sidewalk	
 	
	1

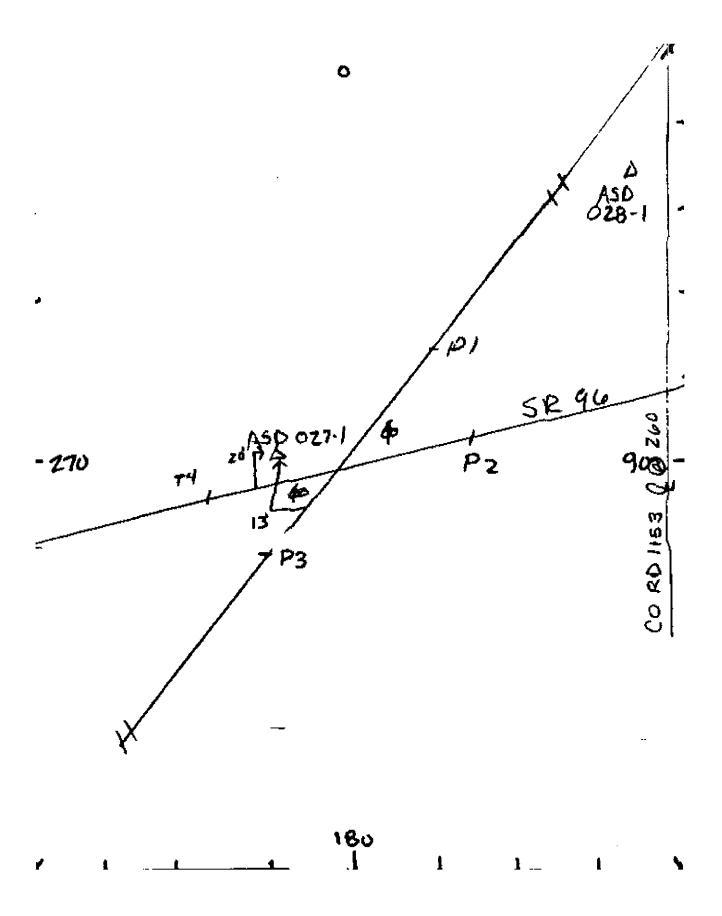


TABLE I

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1-10)	240
	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

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.

W1/2/1/16



Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.) Constituent — Railroad		Date: 3/2	9/2016	
Location Data				
Street or Road Name: Main Street				и
Route/Road Number (i.e. Twp., Co., SR or US) SR 301-6.19			US DOT No.:	265027S
County: WAY Township:	-	City: (In or Near)	Village of We	est Salem
Railroad Name: Ashland Railway	Railroad Division: Pittsburgh			Branch/Line ML Sal&Galion Name:
Nearest RR Timetable Station: West Salem			RR Milepost:	238.01
On-Site Review Team				
(Include: Name - Organization - Phone Number - 1	Email) ORD C 1 ASALANG	PANLWAY		029/
3. JASON SCHRAIBMAN	1000 AND 1000 AND 1000			07-7028
4. SOUT PATSOLIC	BANATANO	RR 1	419-525	-2-822
5. GEORCE MARIAN	PUCO	<u> </u>	614-752	-9107
6				
7				
8				-
9.				8
·				•
Existing Traffic Control Devices				
Type of Warning Devices	Installe	d?		Quantity/Comments
Advance Warning Signs (condition?)	✓ Yes	☐ No	7	-
'Stop' Signs	Yes	☑ No		
'Stop Ahead' Signs	Yes	☑ No		
Pavement Markings (condition?)	∑ Yes	□ No		
Crossbucks	述 .Yes	☐ No		<u></u>
Number of Tracks Signs	☐ Yes	☑ No		
Inventory Tags	☐ Yes	í∐ No		
Interconnected Highway Traffic Signal	Yes	ĭ No		
Mast-Mounted Flashing Lights	X Yes	☐ No		~2.
Cantilever Flashing Lights	Yes	⊠ No	Number:	Length:
Side Lights	Yes	⊠ No		
Automatic Gates	✓ Yes	☐ No	Number:	2. Length: 14
Bells	Yes	□No	Number:	1
Sidewalk Gate Arms	Mag s	⊠ No		
'No Turn' Signs	☐ Yes	⊠ No		8
Illumination	✓ Yes	☐ No		
Is crossing flagged by train crew?	Yes	No		
Other	Yes	No		

Safety Data (Obtain o	rash repo	rts, if possible, prior to review)	
	Init	ial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0		
Hazard Ranking	4276		
Railroad Data			
Railroad Characteris	tics	Initial Information (from database)	Revised
Total trains per day		2	
< I per day			
Day thru trains			
Night thru trains			
Daytime switching moveme		2	
Nighttime switching moven	ents		
Total number of tracks		1	ONE
Number of main tracks		1	0
Number of other tracks		1 Side Track	0
Maximum train speed		10	
Typical train speed		10	
Amtrak			
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	is occupy cro	ssing at the same time? Yes No	
Can one train block the motor	ists' view of	another train at crossing? 🔲 Yes (Explain be	elow) 📉 No
Can one or more tracks be eli	minated thro	ugh the crossing? 🔲 Yes 🏻 🔼 No	
Are there other track(s) crossing this same roadway within 100 ft of this crossing? Yes No			
If yes, Crossing DOT #(if did not be a lift yes, distance	ifferent) (take mea	 usurement between track centerlines at close	st point along roadway)
Roadway Data	·		
Local Highway Authority:		Village of West Salem	
Roadway Characteris	stics	Initial Information (from database)	Revised
Average daily traffic		3036 (2014)	
Highway paved		X Yes No	☐ Yes ☐ No
Roadway Surface: M Blacktop Gravel Concrete Other			
Roadway width: 💯 ft.			
Number of highway lanes	<u> </u>		
Urban or Rural	Rural		
Vehicle Speed:MPH	25		
School Bus Operation: No K Yes Amount			
Hazardous Materials Trucks: X No Yes .08 Amount			
Shoulders: No Yes			
Is the shoulder surfaced? No Yes			
··· ··· · · · · · · · · · · · · · · ·		100	
Is there existing guardrail along			

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	X None
Pedestrians: No Yes	
Is sidewalk present? No XYes	0
Is there a nearby intersection that could cause queuing over the c	rossing? 🗹 No 🔲 Yes
If yes, Distance	
Is this intersection signalized? 🗵 No 🔲 Yes	
Are the signals currently interconnected with the existing crossi	ng warning devices? \(\sum \frac{1}{N} \to \tag \text{Yes}
Is there a 'Do not Stop on Track' sign? 💆 No 🔠 Yes	· ·
location in the foreseeable future? 🔼 No 🔲 Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
If yes, Improvement type Lead Agency	Timeline/completion -
ls it the consensus of the Diagnostic Review Team that this is a po	otential closure project: No Yes
Explain reasons: Site Route X	
Type of Development	
Open Space Institutional Location of nearby	v 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? K Gas Cable	▼ Telephone
(add locations to sketch) Petroleum Water Other	Sanitary Sewer
' ' - ' - ' - '	1 Unknown
Comments:	

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:
Sidewalks on Quiside of F/gls on
hath Mindraute
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
on early (a.g. reaction out to out it obtains, specific fieeds, etc.).
Environmental:
Other: / Possible painted edge lims 8'3"
Other: (1) Possible painted edge lines 8'3" (2) Curbs may be required and may be sidewalk relocation. 4'3"
(2) (uns but the survey of the
may be sidewalk relocation. Y
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8/3/29/16
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Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	Quadrants (100000
Automatic Flashing Lights (AFLS)	
AFLS /Cants	,
IX AFLS / Gates	Total Dorrade OR
AFLS / Gates / Cants	Total Upgrade; or
Bells / number	ONE
Upgrade circuitry / type	ONE
7 71	
☐ Sidelights ☐ Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	Des Valla de la colo Terra de Diffe Colo
∑ Other (define)	16250136 the COR MECH ISSUES 1 16 LED
Trucks Keep Litting the 8	Resolve the gok mech Issues 1 12 LED of the saf this oction. prings of No PINS REQUIRED.
Gate Keepers with s	prings & NO PINS REQUIRED.
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	- 1110000000000000000000000000000000000
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
acknowledgement):	\mathcal{O}
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/	
Field Dimensions	
Tield Differsions	
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Show North	
Sidewalk 2 ' Direction	
· · · · · · · · · · · · · · · · · · ·	
Parkway '	
 - 	
Roadway 10 '	
<u> </u>	
- Ţ,- 	
Roadway	
<u> </u>	
Parkway	
Sidewalk	
 	

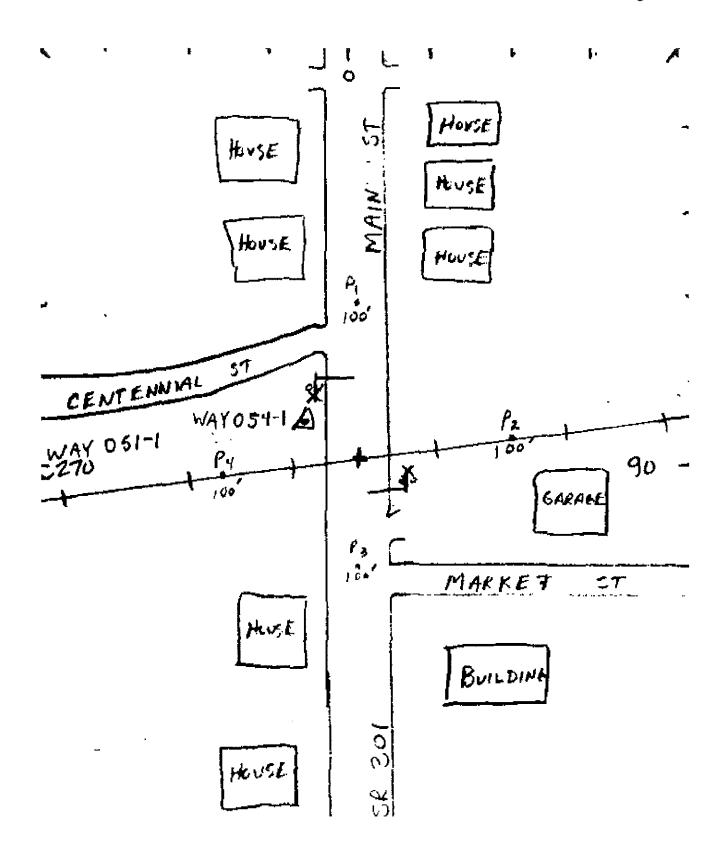


TABLE I

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

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.

3/29/16

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in

Case No(s). 17-1975-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at Ashland Railway Crossings, DOT#264-982E, TR 1455 & DOT#264-989C, SR 96 in Ashland County & DOT#265-027S, SR 301, in Wayne County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division