

Memo

To: Docketing Division
From: Jill Henry, Rail Specialist, Rail Division
Cc: PUCO Legal Department
Date: 2/1/18

Re: PUCO Case No. 18-198-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Columbus & Ohio River Railroad Crossing, West Street DOT#510-602Y in Tuscarawas County, Ohio.

On May 30, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Columbus & Ohio River Railroad (CUOH) to install lights and gates at West Street, DOT#510-602Y in Tuscarawas County, Ohio. The crossing was surveyed on October 13, 2016 and found to warrant the upgrades. The electric utility provider for this crossings is AEP Ohio.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amounts of \$115,913.76 for the installation of lights has 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 railroad will be responsible 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:

Northeast Region-Genesee & Wyoming
John Connelly
Vice President Transportation
400 Meridian Centre Ste. 330
Brighton, NY 14618


Columbus & Ohio River Railroad
Daniel Birrell
Supervisor C&S
47849 Papermill Road
Coshocton, OH 43812

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

Village of Newcomerstown
Patrick Cadle
Mayor
124 West Church Street
Newcomerstown, Ohio 43832

AEP Ohio

**OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION**

TO: Randall Schumacher, Supervisor, Rail Division, PUCO
FROM: Cathy Stout, Manager, Safety Section, ORDC
BY: James Tucker, Project Manager, ORDC 
SUBJECT: Tuscarawas County, West Street, Columbus & Ohio River Railroad
DOT#510602Y, PID#104283
DATE: November 29, 2017

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on October 13, 2016. The Diagnostic Team recommended to upgrade the existing warning devices to lights and 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 for nine months. This construction 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.

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 railroad will be responsible 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, PUCO
Susan Arduni, ORDC
ORDC Project Manager (file)



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

John R. Kasich, Governor • Mark Policinski, ORDC Chairman

November 29, 2017

Mr. John Connelly
Vice President Transportation
Northeast- Genesee & Wyoming
400 Meridian Centre ste.330
Brighton, NY 14618

RE: Tuscarawas County, West Street, DOT#510602Y, PID#104283

Dear Mr. Connelly:

The bid process for the referenced project has been reviewed and is acceptable. Columbus & Ohio River Railroad (CUOH) 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 \$115,913.76. 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 but must be confirmed in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon CUOH accepting the following instructions:

1. CUOH's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to James Tucker, ORDC, email james.tucker@dot.ohio.gov, and to the Public Utilities Commission of Ohio, email jill.henry@puco.ohio.gov. CUOH'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. CUOH 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 CUOH.
3. CUOH's project foremen will notify James Tucker at 614-398-6897 (telephone) or james.tucker@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.



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phone: 614.644.0306

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5. CUOH will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Purchase Order to reference when billing.
6. CUOH 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.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Tucker', with a stylized flourish at the end.

James Tucker,
Project Manager

Attachment: ODOT P.O.

C: Randall Schumacher, Supervisor, Rail Division, PUCO
Jill Henry, Grade Crossing Planner, PUCO
ORDC (file)



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

John R. Kasich, Governor • Mark Policinski, ORDC Chairman

August 10, 2017

Mr. John Connelly
Northeast-Genesee & Wyoming
Vice President Transportation
400 Meridian Centre ste.330
Brighton, NY 14618

RE: Tuscarawas County, West Street, DOT#510602Y, PID#104283.

Dear Mr. Connelly:

The plan and estimate transmitted 6-26-17 and 8-10-17, for the referenced project has been reviewed and is acceptable. Columbus & Ohio River Railroad may proceed with soliciting bids for 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.

A construction authorization will be sent once the bid documents have been received and approved. No field work may be started without a construction authorization from this office.

Sincerely,

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



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phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

West St Newcomerstown OH 510602Y estimate

Crossing package including all field material &labor	\$140,000.00
4 channel NVR camera system with battery backup	\$1,700.00
100 amp power service	\$2,200.00
Engineering services including plans	\$5,000.00
AEP aid to construction costs	\$1,000.00
Flagging costs	\$5,000.00
Total	\$154,900.00

West St Newcomerstown OH 510602Y material list

6x6 crossing case prewired.

10 NiCad 255AH cells B12 bank

9 NiCad 350AH cells OL bank

PMD-4R 300911-031

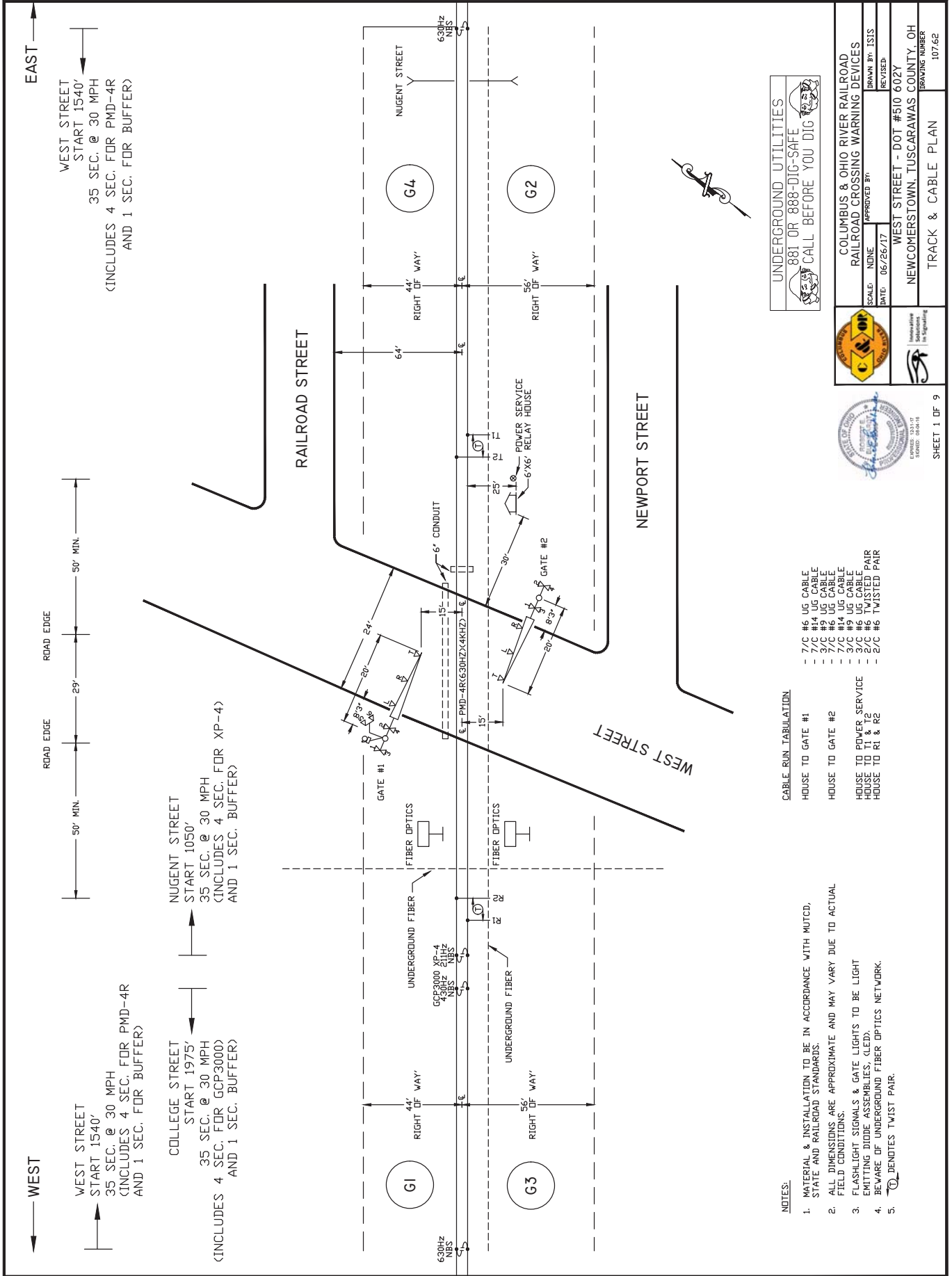
Two complete LED flasher assemblies with WCH 3593E gate mechs

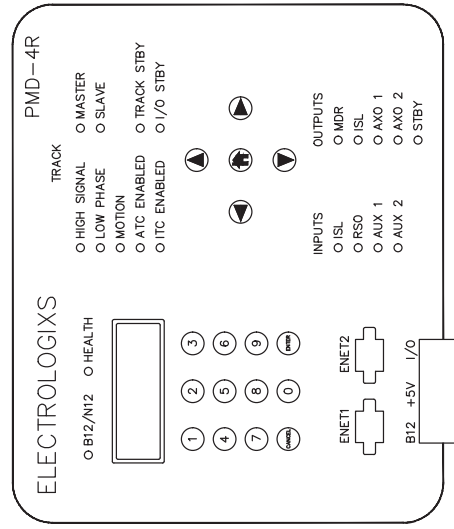
Two NEG gate arms with LED light kits.

NASS data recorder with DTMF control


4 channel NVR camera system with battery backup

100 amp power service





NOTES:

1. ALL WIRE THIS SHEET #10 UNLESS OTHERWISE NOTED.
2.  DENOTES TWISTED PAIR.



WEST STREET - DOT #510 602Y	
NEWCOMERSTOWN, TUSCARAWAS COUNTY, OH	
CIRCUIT PLAN "A"	DRAWING NUMBER 107.62

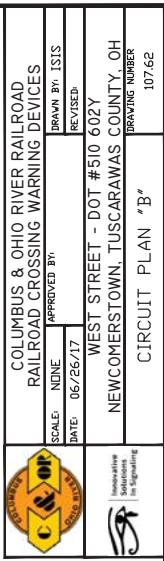
PROGRAM INFORMATION PMD-4R

Parameter Name	Track 1
Approach Length	1540 ft
Approach Frequency	630Hz
Transmitter Check Value (-7.0 to 13.0 Ohms)**	
Master/Slave Option	Master
Approach Direction Mode Uni/Bi	ADL(Bi)
Lumped Impedance Adjustment Value (-9 to +9)**	
LOS Time (seconds)	ADL(16 sec)
False Shunt Detection Enable/Disable	ADL(Disable)
False Shunt Detection RX Level	ADL(80 RX)
False Shunt Detection Delay Time	ADL(0 min)
Approach Release Enable/Disable	ADL(Disable)
Approach Release RX Level	ADL(80 RX)
Approach Release Delay Time	ADL(0 min)
Constant Warning/Motion Detector Mode	ADL(MD)
Requested Warning Time*	30 sec
Advance Preempt Time*	0 sec
AUX Recovery Delay	ADL(5 sec)
Parameter Name	
Site ID	FDL(West Street)
Approach Track Circuit Enable/Disable	FDL(DISABLED)
Maximum Approach Track Disable Time	FDL(2 hours)
Approach Transmitter Gain Normal, Short, and Very Short Approach	FDL(Zero (0))
Transmitter Check Adjustment	FDL(Normal)
Ballast Compensation Value	FDL(Zero (0))
Phase Compensation Value	148
Auto RX	FDL(Zero (0) Degrees)
Island Type	FDL(Enabled)
Island Track Circuit Enable/Disable	FDL(internal)
Island Frequency (KHz)	FDL(Enabled)
Island Transmitter Gain	4KHz
Island LOS (seconds)	FDL(0)
Island Fault Setting	FDL(2 sec)
	FDL(2)

Note: ADL = Application Default Setting
 FDL = Factory Default Setting
 NA = Non Applicable
 * = Limited Predict Mode Only
 ** = Field Adjustment to be made according to the PMD-4R Instruction Manual and supplements

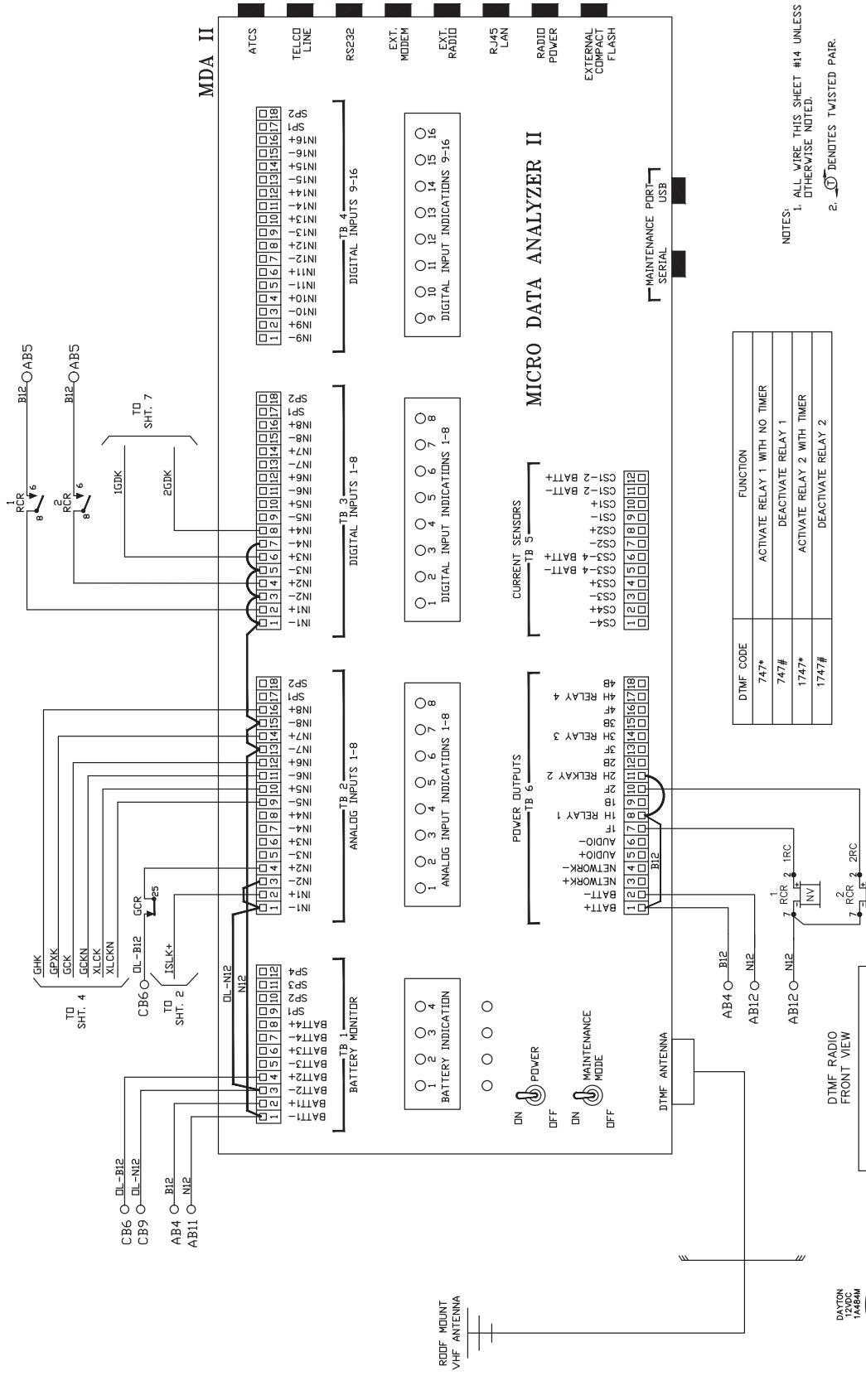


	COLUMBUS & OHIO RIVER RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	DRAWN BY: ISIS
	DATE: 06/26/17	
	APPROVED BY:	
WEST STREET - DOT #510 602Y		REVISION:
NEWCOMERTOWN, TUSCARAWAS COUNTY, OH		DRAWING NUMBER
PROGRAM INFORMATION		10762



NOTES:

1. ALL WIRE THIS SHEET IS #14 AWG. FLEX UNLESS OTHERWISE NOTED.
2. ① DENOTES TWISTED PAIR.



COLUMBUS & OHIO RIVER RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY: [Signature]
DATE: 06/26/17	REVISION: [Blank]
WEST STREET - DOT #510 602Y NEWCOMERTOWN, TUSCARAWAS COUNTY, OH	
CIRCUIT PLAN "C"	
DRAWING NUMBER 107.62	

DTMF CODE		FUNCTION
747*	747#	
1747*	1747#	

CURRENT SENSORS	
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
DIGITAL INPUT INDICATIONS 1-8	
DIGITAL INPUT INDICATIONS 9-16	

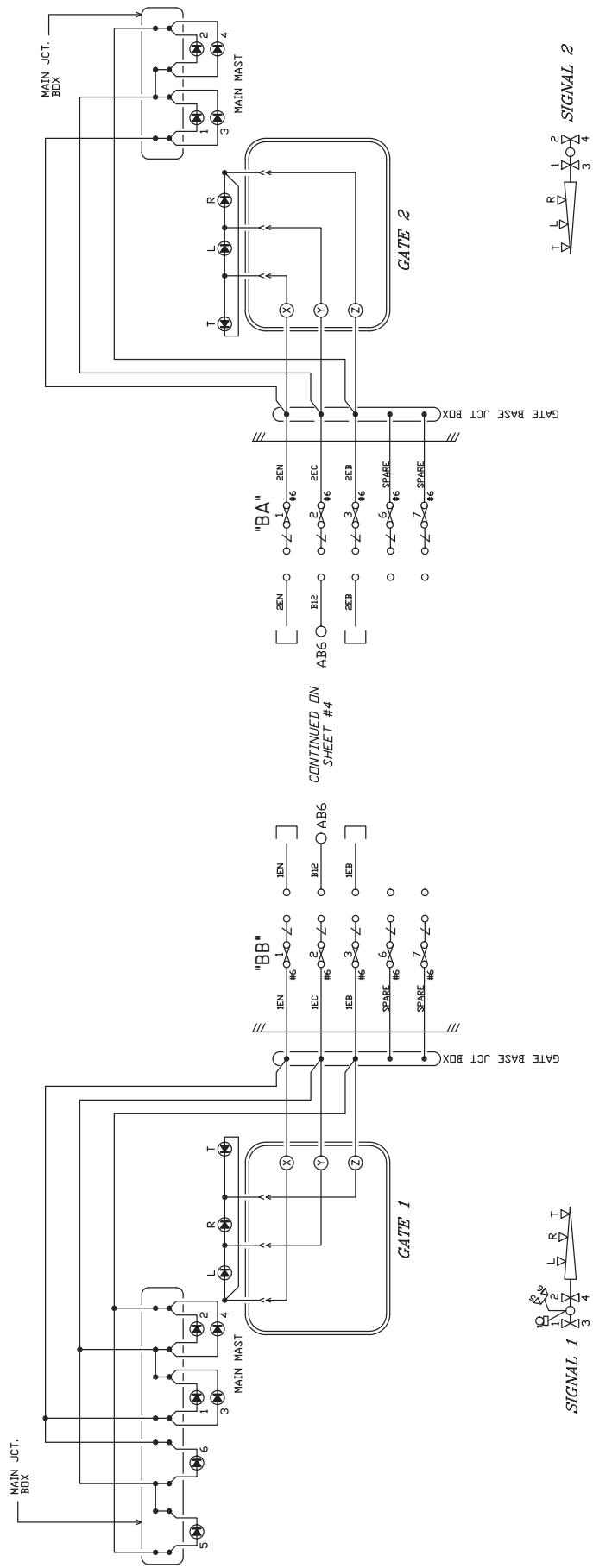
POWER OUTPUTS	
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
ANALOG INPUT INDICATIONS 1-8	
DIGITAL INPUT INDICATIONS 1-8	

BATTERY MONITOR	
1 2 3 4	5 6 7 8
ANALOG INPUT INDICATIONS 1-8	
DIGITAL INPUT INDICATIONS 1-8	



DTMF CODE		FUNCTION
747*	747#	
1747*	1747#	

CURRENT SENSORS	
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
DIGITAL INPUT INDICATIONS 1-8	
DIGITAL INPUT INDICATIONS 9-16	

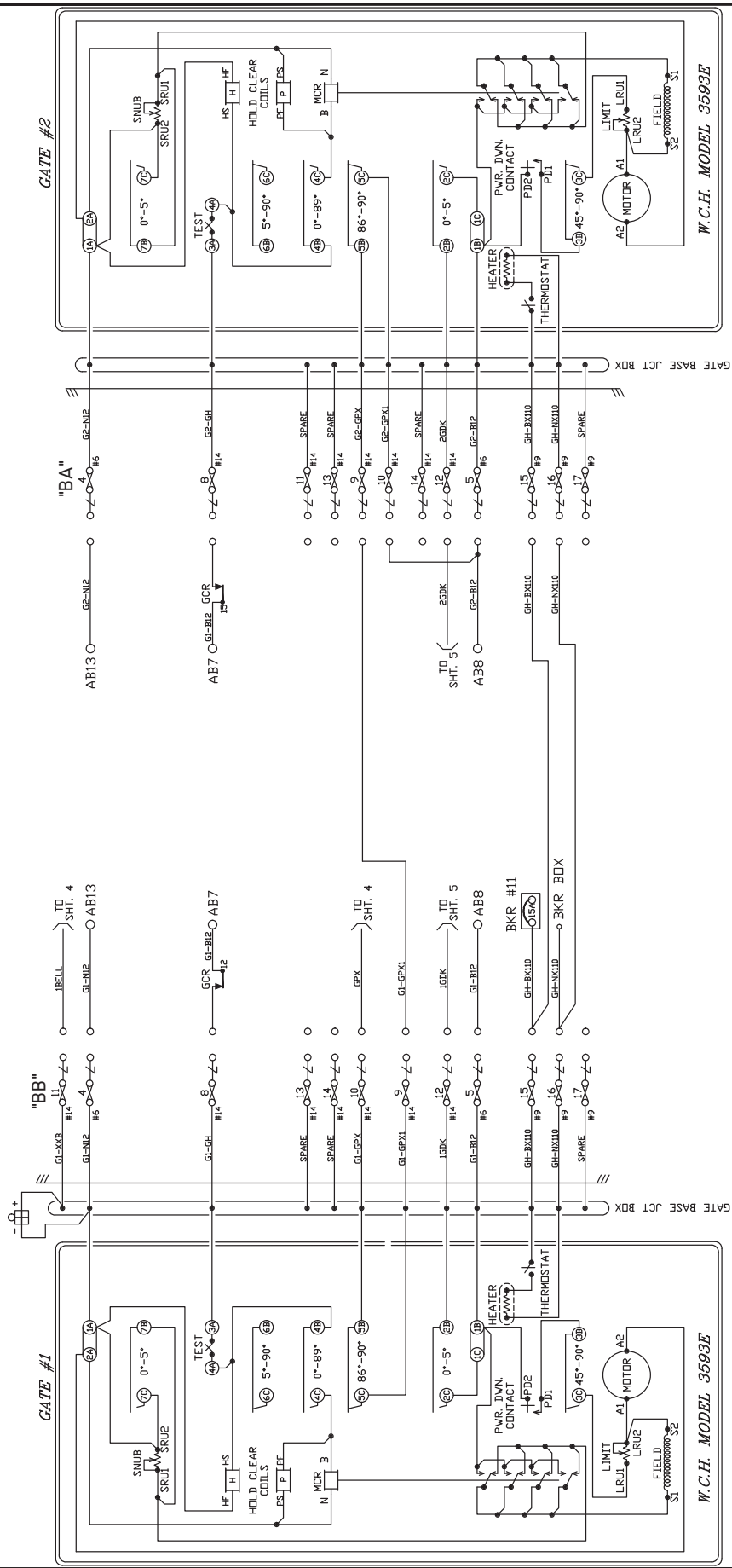
POWER OUTPUTS	
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16
ANALOG INPUT INDICATIONS 1-8	
DIGITAL INPUT INDICATIONS 1-8	





NOTE:
1. ALL WIRING TO BE #10 AWG UNLESS OTHERWISE NOTED.

	COLUMBUS & OHIO RIVER RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY: [Signature]
	DATE: 06/26/17	REVISED: [Blank]
	WEST STREET - DOT #510 602Y NEWCOMERTOWN, TUSCARAWAS COUNTY, OH	
	CIRCUIT PLAN "D"	
DRAWING NUMBER 10762		

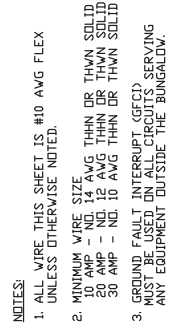
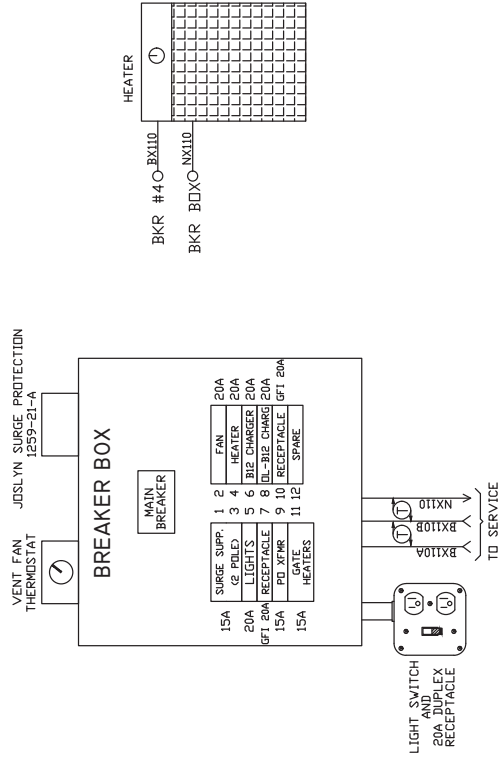
CONTACT	CLOSED	FUNCTION
2	0-5	GATE DOWN
3	45-90	MOTOR DOWN
4	0-89	MOTOR UP
5	86-90	GATE NORM
6	5-90	BELL
7	0-5	SNUB

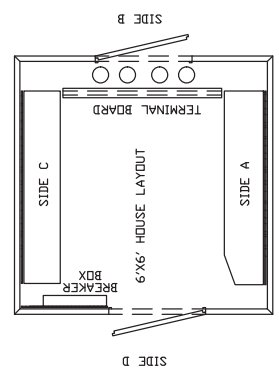
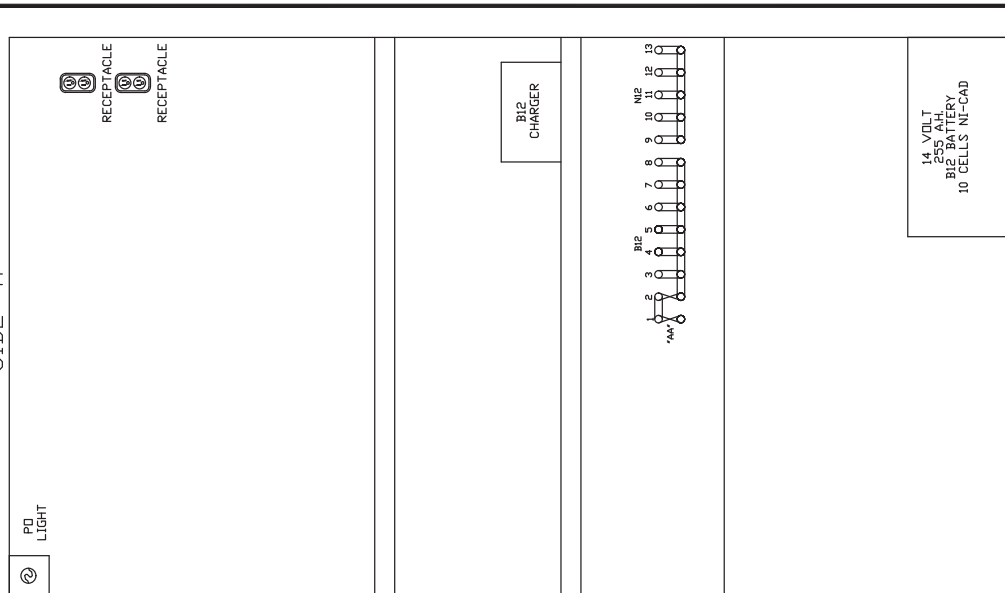
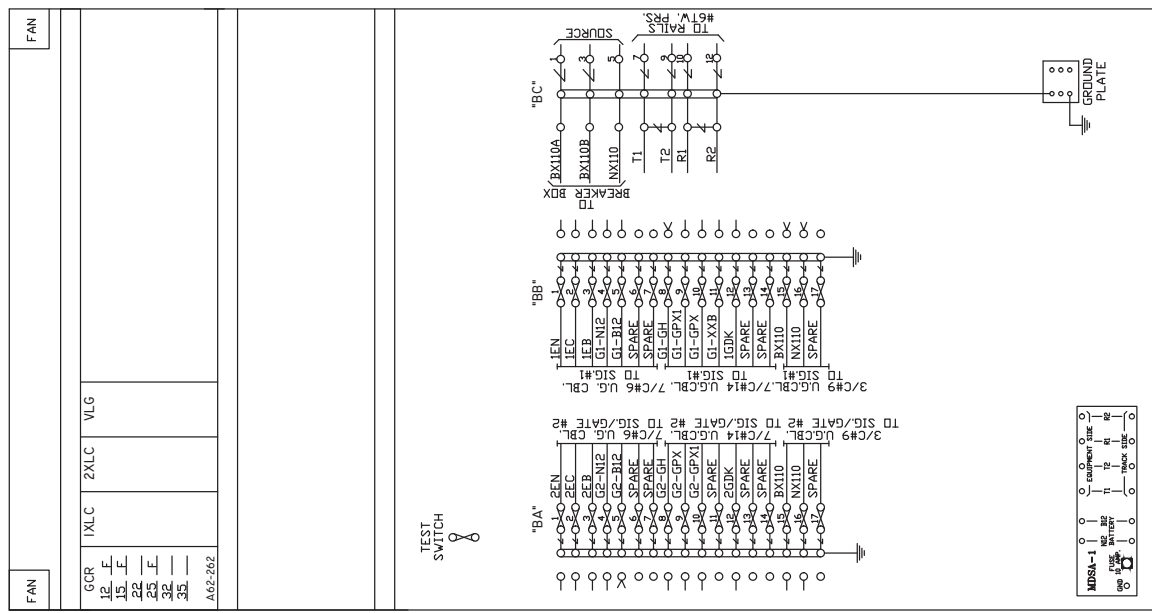
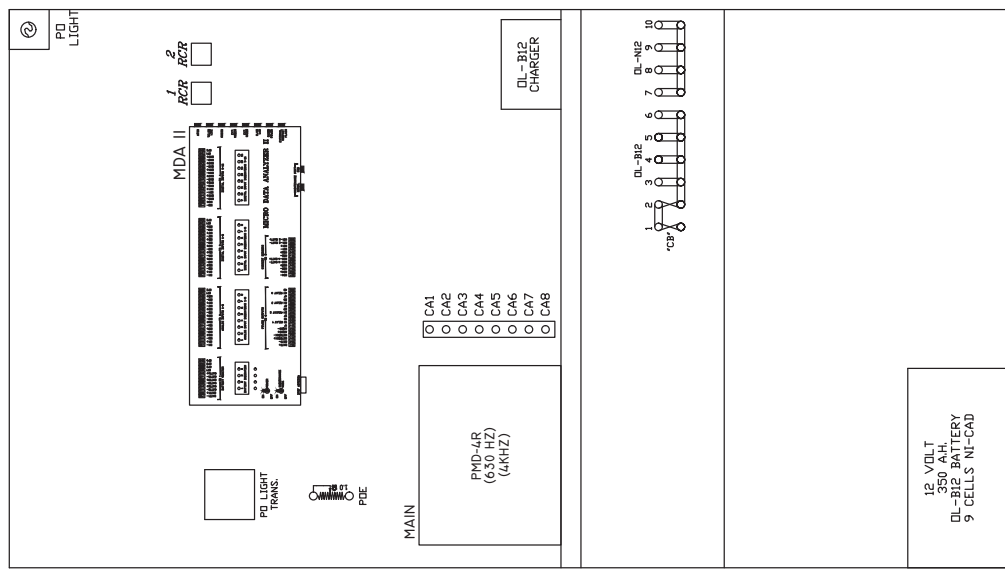


NOTES:
 1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

COLUMBUS & OHIO RIVER RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY: _____
DATE: 06/26/17	REVISED: _____
WEST STREET - DOT #510 602Y	
NEWCOMERTOWN, TUSCARAWAS COUNTY, OH	
CIRCUIT PLAN 'E'	DRAWING NUMBER 10762







OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

John R. Kasich, Governor • Mark Policinski, ORDC Chairman

May 30, 2017

John Connelly
Northeast – Genesee & Wyoming
Vice President Transportation
400 Meridian Centre Ste.330
Brighton, NY 14618

RE: Tuscarawas County, Newcomerstown, West St, DOT#510602Y, PID#104283

Dear Mr. Connelly:

A diagnostic review was held at the above grade crossing on October 13, 2016. The crossing has been recommended for the installation of lights and gates.

Columbus & Ohio River Railroad 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.

The Project Manager for this project is James Tucker. James can be reached at (614)398-6897, or james.tucker@dot.ohio.gov, if you have any questions.

Sincerely,

Project Manager

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

Attachment: 1 (diagnostic review form)



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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

April 25, 2017

Catherine Pushchak
Corporate Counsel
Columbus and Ohio River Railroad
20 West Avenue
Darien, CT 06820

Subject: Grade Crossing Warning Device Improvement
Tuscarawas County, West Street
US DOT # 510602Y, PID 104283

Dear Ms. Pushchak:

A diagnostic review was conducted at the West Street, DOT # 510602Y, crossing on October 13, 2016. As a result of the review, the warning devices will be upgraded to flashing lights and roadway gates.

This project shall be completed in compliance with Agreement No. 0009-A dated May 28, 2001, entered into by the State of Ohio and Columbus and Ohio River Railroad (CUOH) and incorporated as if fully rewritten herein. This construction shall also meet the general terms and conditions under the Moving Ahead for Progress in the 21st Century Act (MAP-21) and subsequent amendments and the State of Ohio's Federally Funded Warning Device Program.

Preliminary engineering (PE) and construction costs shall be borne one hundred percent (100%) by ORDC. Reimbursable costs will be limited by the ORDC based on approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to CUOH and may be amended by the ORDC based on revised estimates and bid tabulations.

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

PE will not be commenced by CUOH prior to ORDC issuing a PE authorization. PE and project estimate will be submitted by CUOH to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by CUOH prior to ORDC issuing a construction authorization. Construction will be completed by CUOH within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.

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

Sincerely,

Matthew R. Dietrich
Executive Director



www.rail.ohio.gov

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Columbus and Ohio River Railroad:

By: 

Title: ASST. TREASURER

Date: 4.30.17

By: _____

Title: _____

Date: _____

TUS WEST STREET CUOH PID 104283



Diagnostic Review Team Survey

Reason for Survey:

(e.g. formula, accident, constituent, etc.)

Constituent

Date:

10-13-14/16

Location Data

Street or Road Name:

West St.

Route/Road Number
(i.e. Twp., Co., SR or US)

US DOT No.:

5106024

County:

TUSCARAWAS

Township:

City:

(In or Near)

Newcomerstown

Railroad

Name: Columbus + Ohio River

Railroad

Division: Central

Branch/Line

Name:

Nearest RR

Timetable Station: Newcomerstown

RR Milepost:

On-Site Review Team

(Include: Name - Organization - Phone Number - Email)

1. James Tucker ORDC 614-398-6897
2. SAARON ZAFARY PLC 614-466-1150
3. Mark Henke NCT 740-498-8655
4. Chris Jones NCT 740-498-8655
5. DAN BIRRELL CUOH 740-295-4122
6. CHRISTOPHER R. FRANK GRSI 904-314-4007
7. _____
8. _____
9. _____

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
'Stop' Signs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
'Stop Ahead' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Poor
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Number of Tracks Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Inventory Tags	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mast-Mounted Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Cantilever Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
Side Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Automatic Gates	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
Bells	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number:
Sidewalk Gate Arms	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
'No Turn' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Illumination	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	NW Quad
Is crossing flagged by train crew?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Other	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Safety Data (Obtain crash reports, if possible, prior to review)

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0	
Hazard Ranking	1201	Date Run: 10/22/10

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day		6
< 1 per day		
Day thru trains		3
Night thru trains		3
Daytime switching movements		
Nighttime switching movements		
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks		
Maximum train speed		30
Typical train speed		30
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table I) ☒ Yes ☐ No

If multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☒ No

Can one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☒ No

Can one or more tracks be eliminated through 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 different) _____

If yes, distance _____ (take measurement between track centerlines at closest point along roadway)

Roadway Data

Local Highway Authority: Village of Newcomerstown

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	741 2010	
Highway paved	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: <input checked="" type="checkbox"/> Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
Roadway width: <u>22</u> ft.		
Number of highway lanes		
Urban or Rural	Urban	
Vehicle Speed: _____ MPH	25	
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Hazardous Materials Trucks: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Shoulders: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
Is the shoulder surfaced? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is there existing guardrail along roadway in crossing vicinity? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is stopping site distance adequate? (See Table 2) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, deficient approach(es) _____		

Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None	Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None
Pedestrians: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is sidewalk present? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is there a nearby intersection that could cause queuing over the crossing? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Distance _____ Is this intersection signalized? <input type="checkbox"/> No <input type="checkbox"/> Yes Are the signals currently interconnected with the existing crossing warning devices? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is there a 'Do not Stop on Track' sign? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Improvement type _____ Lead Agency _____ Timeline/completion - _____	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Explain reasons: _____	
Type of Development	
<input type="checkbox"/> Open Space <input checked="" type="checkbox"/> Industrial <input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input type="checkbox"/> Commercial Location of nearby schools: _____
Utility Information	
Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Utility Provider (Company Name) <u>AEP</u> Phone Number _____ Nearest Available Power Source <u>@ Crossing</u>	
What other utilities are present? (add locations to sketch) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Gas <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____ </div> <div> <input type="checkbox"/> Cable <input type="checkbox"/> Water </div> <div> <input type="checkbox"/> Telephone <input type="checkbox"/> Sanitary Sewer </div> <div> <input type="checkbox"/> Fiber Optic Cable </div> </div>	
Is(are) there potential utility conflict(s) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	
Comments: _____	

Potential Red Flags / Project Challenges

Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):

N/A

Crossing Consolidation or Closure:

N/A

Real Estate or ROW:

N/A

Culverts / Drainage / Ballast Conditions:

N/A

Roadway and/or Sidewalks:

N/A

Circuitry (e.g. reaches out to other crossings, specific needs, etc.):

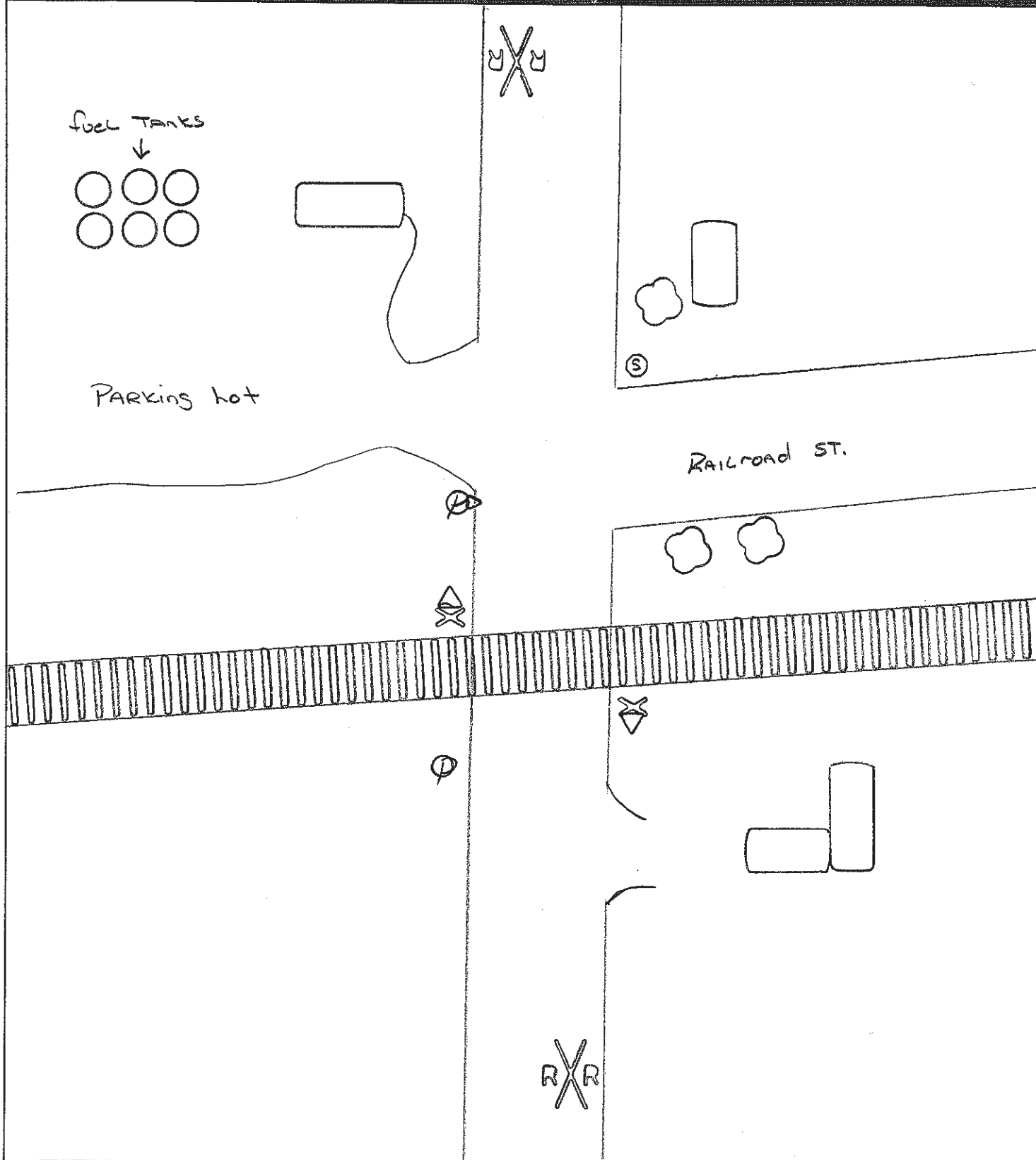
overlap with Nugent + college + Bridge

Environmental:

N/A

Other:

Field Sketch



Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in _____ Quadrant?

Sketch by: J.T.

Diagnostic Team Recommendations

Quadrants Needed

- ☒ Install/upgrade active devices
- ☐ Automatic Flashing Lights (AFLS)
- ☐ AFLS / Cants
- ☒ AFLS / Gates
- ☐ AFLS / Gates / Cants
- ☒ Bells / number
- ☐ Upgrade circuitry / type
- ☒ Sidelights
- ☐ Guardrail Needed
- ☐ Install/Replace curb
- ☒ Bungalow placement & offset from rail & highway
- ☐ Other (define)

2 bells

NW Quad

SW Quad

Comments:

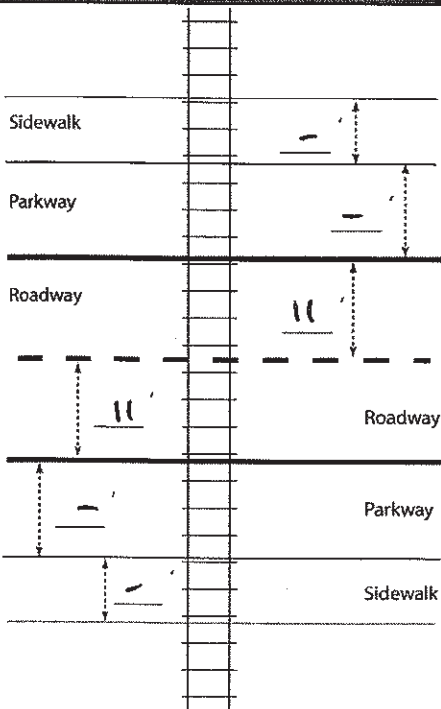
- ☐ Install/upgrade traffic signal preemption
- ☐ No improvements needed
- ☐ Other (define)

Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature acknowledgement):

J. T. [Signature] *Patrick [Signature]* *CE [Signature]*

[Signature] *[Signature]* *[Signature]*

Field Dimensions



County: TOS

Route: West ST.

DOT#: 5016024

Surface type <input type="checkbox"/> Rubber seal and asphalt <input type="checkbox"/> Timber and asphalt <input checked="" type="checkbox"/> Asphalt <input type="checkbox"/> Composite <input type="checkbox"/> Concrete panel <input type="checkbox"/> Full-depth timber <input type="checkbox"/> Full-depth rubber <input type="checkbox"/> Other _____	Condition <input type="checkbox"/> <u>Good</u> <input type="checkbox"/> Fair <input type="checkbox"/> Poor Comments: _____ _____ _____
Is the surface good and sufficient? <u>Yes</u> / No	
Vehicle type (cars, trucks, etc.): <u>CARS + TRUCKS</u>	
Surface conditions: Can vehicles cross at posted speed? <u>YES</u> Local observations/driver behaviors: _____ _____ Relevant crash history: <u>N/A</u> _____ _____	
Do existing surface conditions have negative effects on the current or proposed warning devices? Explain: <u>NO</u> _____ _____	
Comments: <u>New Surface</u>	

Form completed by: J. T. [Signature]

Date: 10-13-16

TABLE 1**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 non-gated crossings as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Table 2**Stopping Sight Distances**

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

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

Notes:

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

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

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

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

2/2/2018 10:41:36 AM

in

Case No(s). 18-0198-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Columbus & Ohio River Railroad Crossing, West Street DOT#510-602Y in Tuscarawas County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division