

FILE

RECEIVED-DOCKETING DIV

2016 JUN 29 PM 3: 24

PUCO

**Public Utilities
Commission of Ohio**

Memo

To: Docketing Division
From: George Martin, Grade Crossing Planner, Rail Division
Re: In the matter of the authorization of the Cleveland Commercial Railroad to install an active grade crossing warning device in Cuyahoga County
Date: June 29, 2016

The Ohio Rail Development Commission (ORDC) has authorized funding for the Cleveland Commercial Railroad (CCRL) to install mast-mounted flashing lights and roadway gates at its crossing located in Cuyahoga County, City of Bedford Heights, Richmond Rd/SR 175, DOT# 262449A. The railroad initiated this project with ORDC.

The crossing was surveyed on October 22, 2015, and was found to warrant the upgrade. The electric utility provider is CEI.

The project will be paid for with federal funds, and is actual cost. As the plan and estimate in the amount of \$180,673.00 for the project has been submitted and approved, staff requests a Finding & Order with completion due in nine months. Construction may commence at once. Staff requests that the following language be incorporated in the Entry:

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.

A suggested case coding and heading would be:

PUCO Case No. 16- **1496** -RR-FED In the matter of the authorization of the Cleveland Commercial Railroad to install an active grade crossing warning device in Cuyahoga County

C: Legal Department

Please serve the following parties of record.

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop 3140

Columbus, Oh 43223

CEI

Mr Mike Kole

Cleveland Commercial Railroad

29930 Pettibone Rd

Glenwillow, Oh 44139

Mr Don Bierut

City Engineer

5561 Perkins Rd

Bedford Heights, Oh 44146

**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 J.T.
SUBJECT: Cuyahoga County, SR 175/Richmond Rd DOT#262449A
DATE: June 28, 2016

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on October 22, 2015. 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 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: George Martin, 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

June 28, 2016

Michael J. Kole
President
Cleveland Commercial Railroad, L.L.C.
29930 Pettibone Road
Glenwillow, Oh 44139

RE: Cuyahoga County, SR 175, Richmond Rd, DOT#262449A, PID# 101963.

Dear Mr. Kole:

The bid process for the referenced project has been reviewed and is acceptable. Cleveland Commercial Railroad (CCRL) 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 \$180,673.00. 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 but must be confirmed in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon CCRL accepting the following instructions:

1. CCRL'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 George.martin@puc.state.oh.us. CCRL'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. CCRL 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 CCRL.
3. CCRL's project foremen will notify James Tucker at 614-398-6897 (telephone) or james.tucker@neo.rr.com (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.



www.rail.ohio.gov

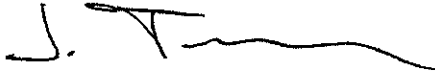
phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

5. CCRL will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Purchase Order to reference when billing.
6. CCRL 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 long horizontal flourish extending to the right.

James Tucker
Project Manager

Attachment: ODOT P.O.

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



Diagnostic Review Team Survey

Reason for Survey: Railroad Concern
(e.g. formula, accident, constituent, etc.)

Date: 10/22/2015

Location Data

Street or Road Name: Richmond Road			
Route/Road Number (i.e. Twp., Co., SR or US) SR 175		US DOT No.: 262449A	
County: CUY	Township:	City: (In or Near)	City of Bedford Heights
Railroad Name: Cleveland Commercial RR	Railroad Division: Mahoning	Branch/Line Name: Industrial Park	
Nearest RR Timetable Station: Solon		RR Milepost: 13.90	

On-Site Review Team

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

- JAMES TUCKER ORDC 614-398-6897 James.Tucker@dot.ohio.gov
- GEORGE MARTIN FULCO 614-752-9107
- Nate Mazo CCRL 216-408-0093 NMAZO@ccrlr.com
- MICHAEL J KOLE CCRL 440 227 3780 THEPILOT@AMERITTECH.NET
- Bill Brown 216 509 1383 bbrown@ccrlr.com
- DON BIEROT CHAGRID VALLEY (BIRKITE) 440 439 1991 bierotecvelimited.com
-
-
-

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	(only 1) was gone
'Stop' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	city will replace
'Stop Ahead' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
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	
Is crossing flagged by train crew?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Just pushing in
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 (1/10/92)	
Hazard Ranking	5434 Date Run: 9/23/15	

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	0	
< 1 per day	Less than one movement a day.	
Day thru trains		
Night thru trains		
Daytime switching movements		
Nighttime switching movements		
Total number of tracks	1	
Number of main tracks	0	
Number of other tracks	1	
Maximum train speed	10	
Typical train speed	10	
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: City of Bedford Heights

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	7083 (2011)	
Highway paved	X 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: 24 ft.		
Number of highway lanes	2	
Urban or Rural	Urban	
Vehicle Speed: 35 MPH		
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 .06% Amount		
Shoulders: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
Is the shoulder surfaced? <input type="checkbox"/> No <input checked="" 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 checked="" type="checkbox"/> No If no, deficient approach(es) E.B. Approach		

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 checked="" type="checkbox"/> No <input 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 checked="" 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 type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Commercial Location of nearby schools: <div style="font-size: 1.5em; text-align: center;">N/A</div>
Utility Information	
Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Utility Provider (Company Name) <u>First Energy (CEI)</u> Phone Number _____ Nearest Available Power Source <u>NW Quad</u>	
What other utilities are present? (add locations to sketch) <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Cable <input type="checkbox"/> Telephone <input checked="" type="checkbox"/> Fiber Optic Cable <input type="checkbox"/> Petroleum <input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Other _____	
Is(are) there potential utility conflict(s) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown	
Comments: <div style="font-size: 1.2em; margin-top: 10px;">6" gas line in close proximity.</div>	

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.):

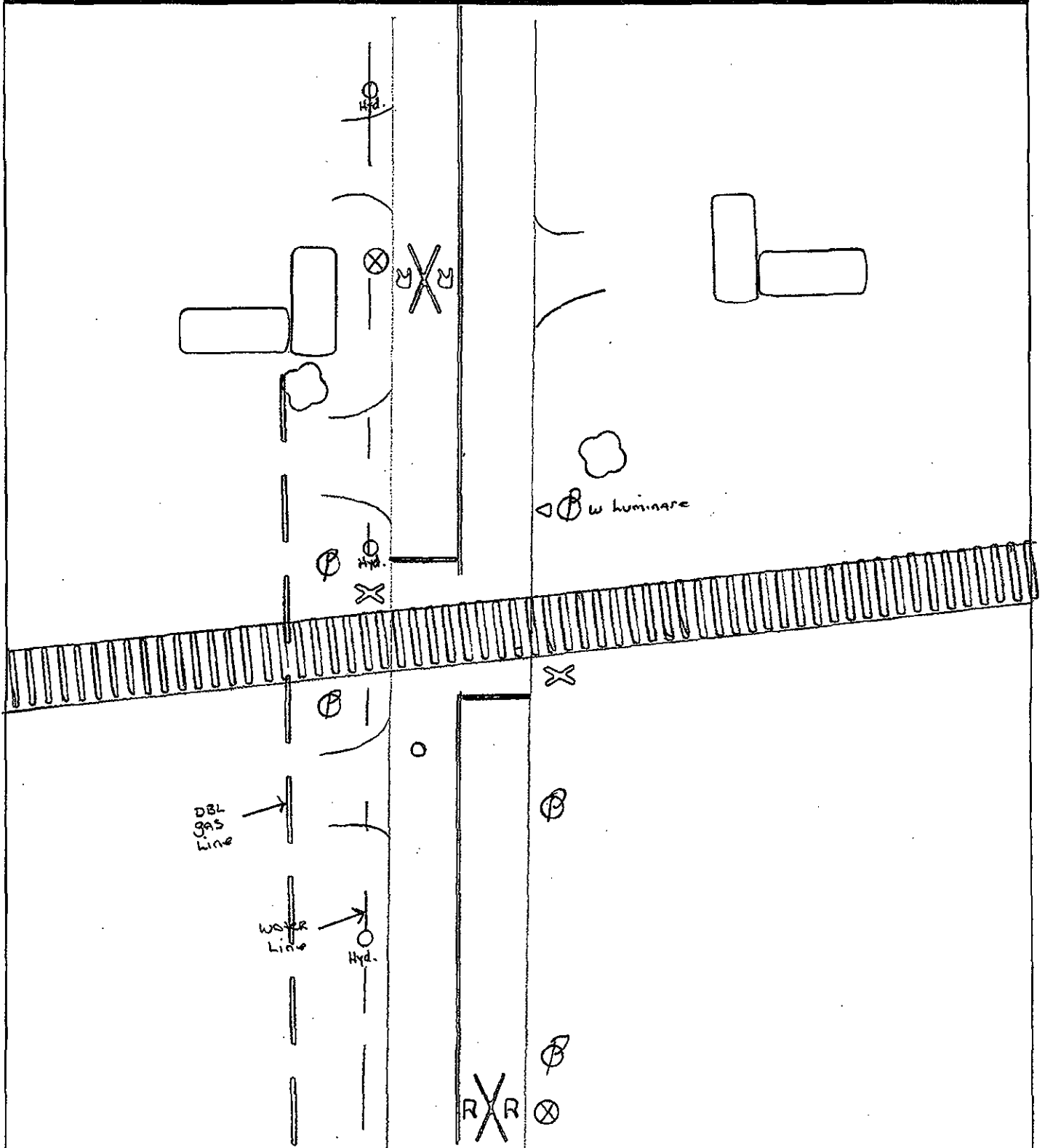
~~N/A~~ Rusted Rail

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)

NE / SW Quads

NW Quad.

Comments: Would like to use Radio Activated gate controls to avoid false Readings from Rusted Rail.

- ☐ 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):

[Signatures]

Field Dimensions

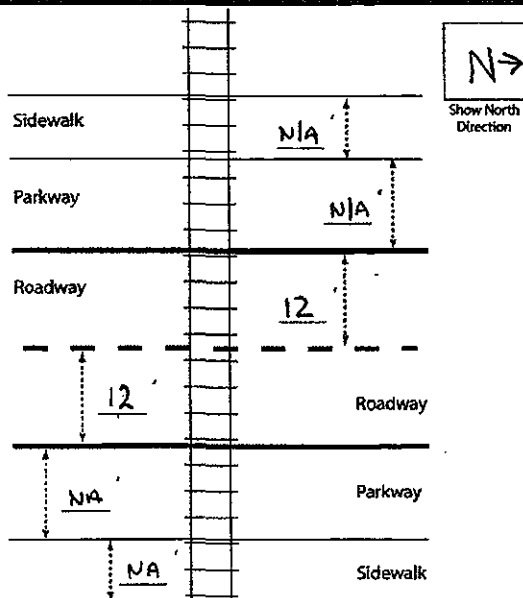


TABLE 1

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:

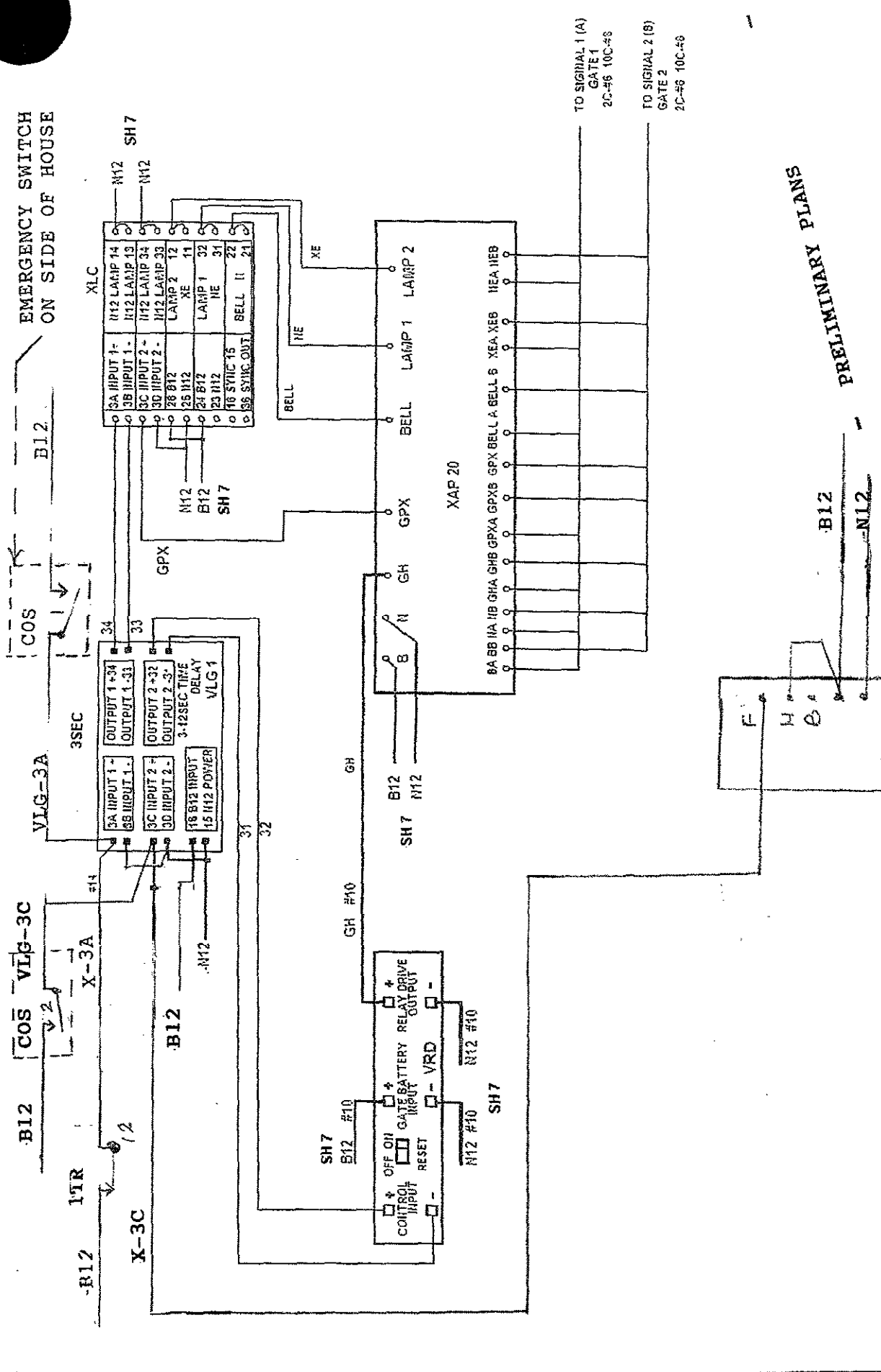
All calculated distances are rounded up to the next higher 5-foot increment.

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.



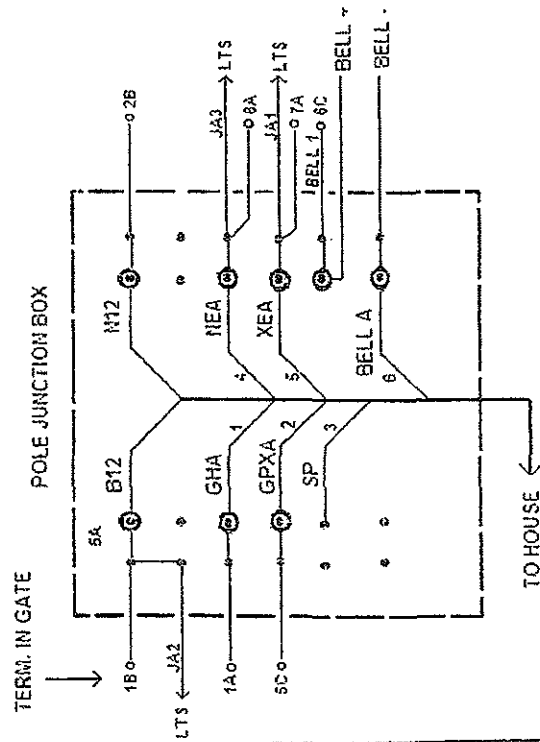
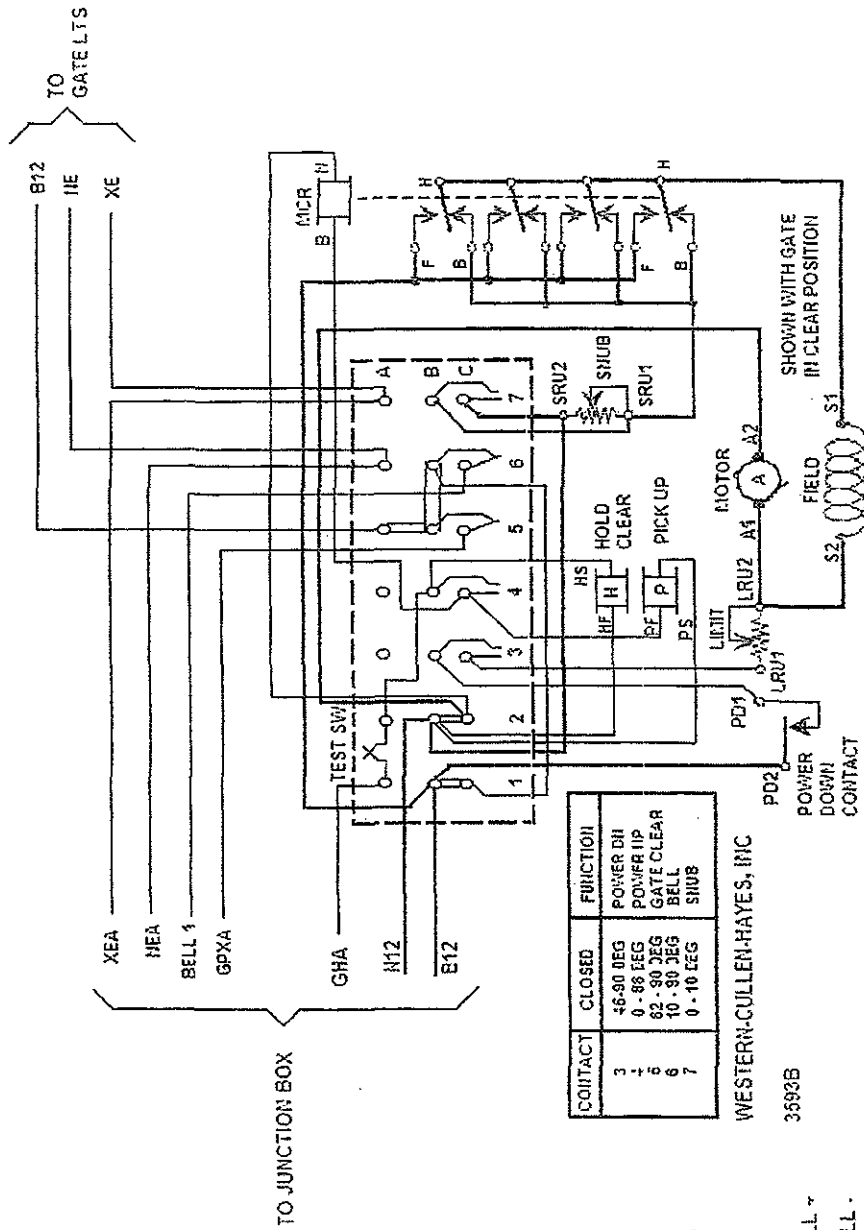
DOT 262449A (SR175) SH-2069



**RADIO
RECEIVER**

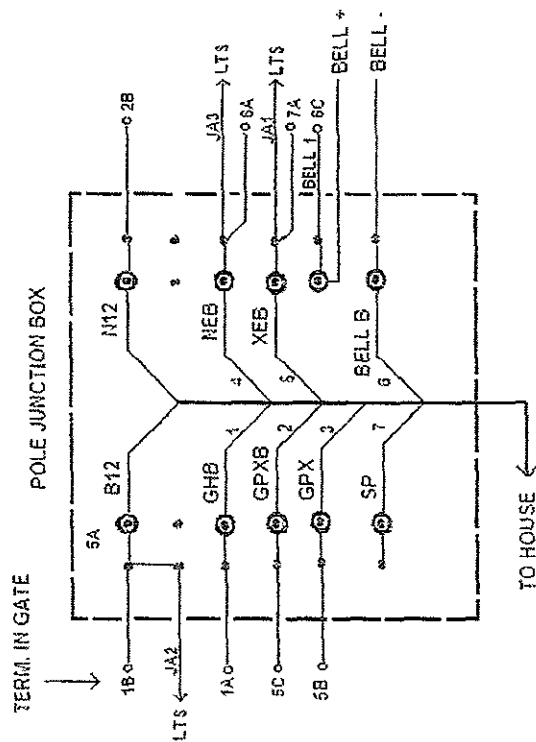
PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
RICHMOND RD.DOT 262449A
(SR175)
BEDFORD HEIGHTS SH. 3009



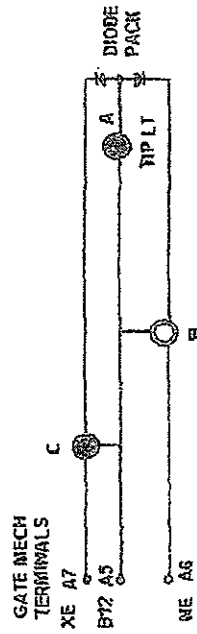
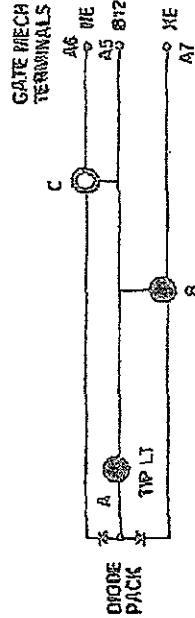
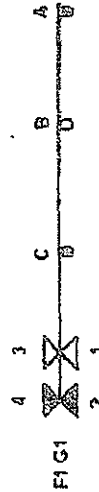
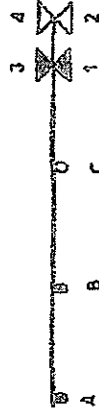
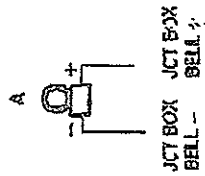
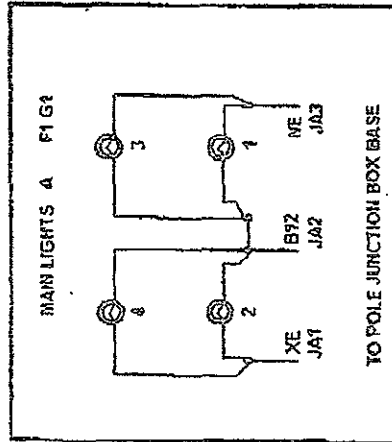
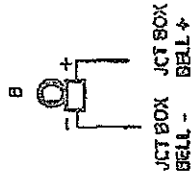
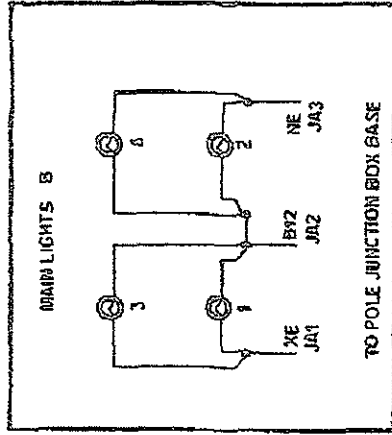
PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
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 (SR175)
 BEDFORD HEIGHTS 34 4 4 4 4



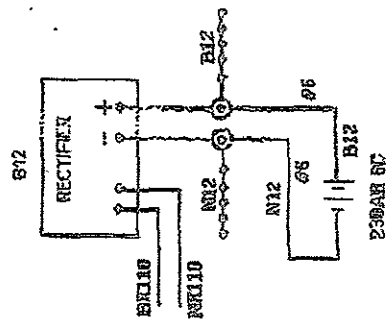
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RICHMOND RD.DOT 262449A
(SR175)
BEDFORD HEIGHTS SH.50F7

F2 G2



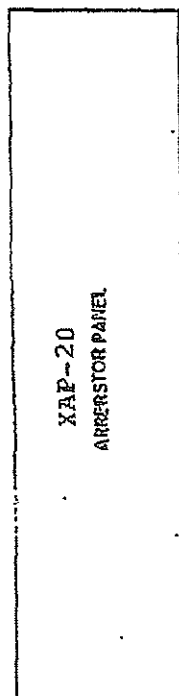
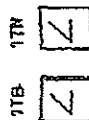
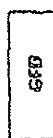
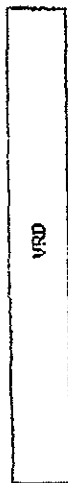
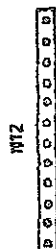
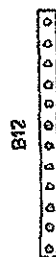
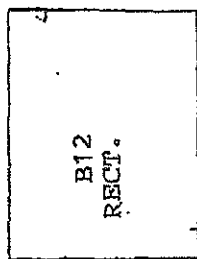
PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
RICHMOND RD.DOT 262449A
(SR175)
BEDFORD HEIGHTS SH.6 OF 7



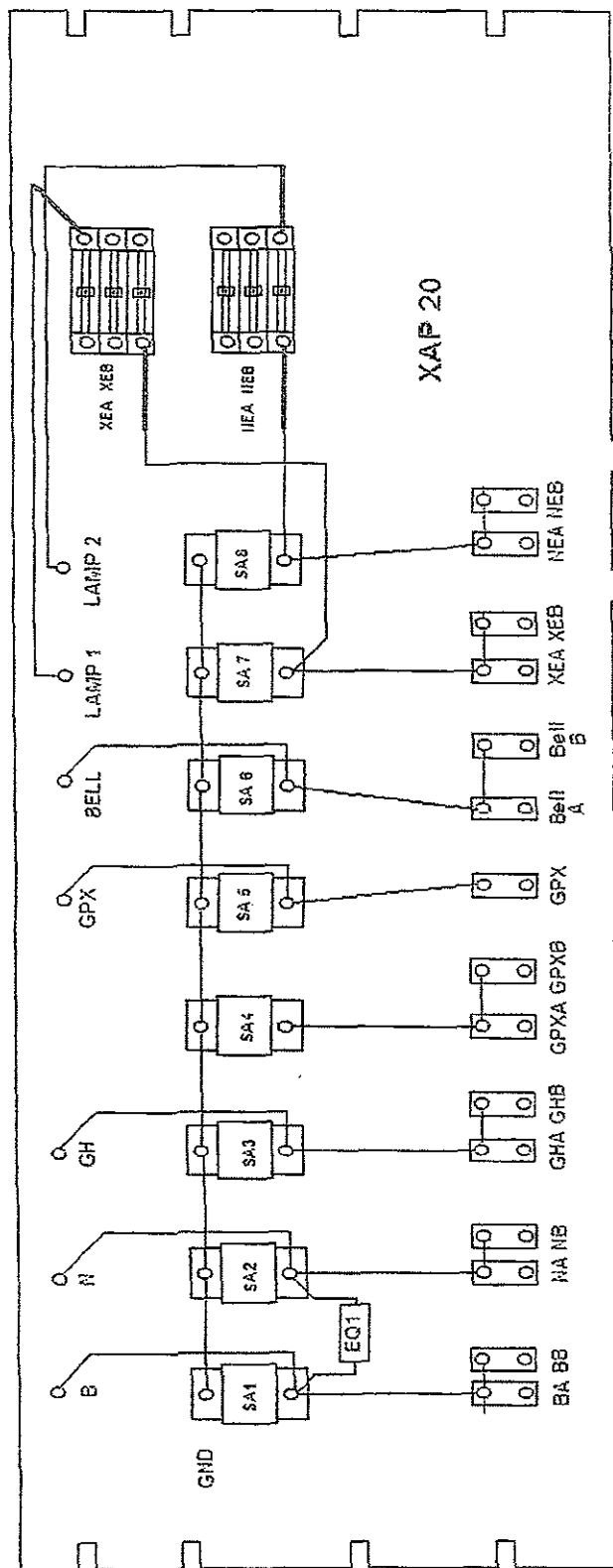
PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
RICHMOND RD.DOT 262449A
(SR175)
BEDFORD HEIGHTS SH.7 of 9



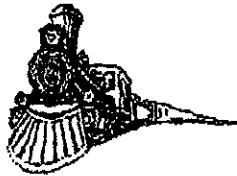
PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
 RICHMOND RD.DOT 262449A
 (SR175)
 BEDFORD HEIGHTS S.H.S. 029



PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
 RICHMOND RD.DOT 262449A
 (SR175)
 BEDFORD HEIGHTS 11.9069



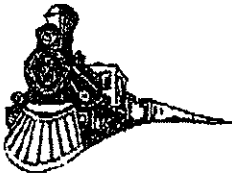
PAGE 1 of 4

RAILROAD TRAFFIC CONTROL, INC.

2/15/16

P.O. Box 1479
Globe, AZ 85502678.296.7542
Email: waltreustle@gmail.com**MR. MICHAEL KOLE**
PRESIDENT
CLEVELAND COMMERCIAL RAILROAD LINES
7634 BOND STREET
GLENWILLOW OH. 44139**PROJECT**
RICHMOND ROAD CROSSING
BEDFORD HEIGHTS
DOT 262449A**ESTIMATED PROJECT COST**

PRELIMINARY ENGINEERING	5,000.00
CONSTRUCTION ENGINEERING	5,000.00
SIGNAL MATERIAL	89,142.00
COMMERCIAL MATERIAL	12,326.00
RADIO CONTROL SYSTEM	1,605.00
EQUIPMENT RENTAL	4,000.00
MEALS LODGING & TRANSPORTATION	3,000.00
LABOR	32,000.00
SHIPPING CHARGES	5,000.00
CLERICAL EXPENSE	2,500.00
CONSTRUCTION EQUIPMENT, TOOLS TRAILER, TRUCK	3,000.00
TRAFFIC CONTROL & FLAGGING	1,000.00
STONE & FILL	1,200.00
A.C. POWER CONNECTION	6,000.00
INSULATED JOINTS (4) INSTALLED	3,900.00
PIPE PUSHING UNDER HIGHWAY	6,000.00
TOTAL -----	180,673.00



PAGE 2 of 4

RAILROAD TRAFFIC CONTROL, INC.P.O. Box 1479
Globe, AZ 85502

2/14/16

678.296.7542

Email: waltreustle@gmail.com

SIGNAL MATERIALS

**SUBJECT: CLEVELAND COMMERCIAL R.R.
HIGHWAY CROSSING INSTALLATION
RICHMOND ROAD CROSSING SR 175
BEDFORD HEIGHTS, CUYAHOGA COUNTY
DOT 262449A**

UNITS

2	GATE COMP. WITH.- GATE MECH. 3593 WITH HEATER ELEMENT ONE SET OF BACK TO BACK LED 12" LIGHTS CROSS BUCK SIGN GATE KEEPER BELL GALVANIZED STEEL FOUNDATION WIND BRACKET GATE ARM 26' VERTICAL STRIPE GATE LIGHTS "CLAMP ON" WITH TIP LIGHT DIODE POLE WITH JUNCTION BOX BASE	38,560.00
1	HOUSE 4' X 6' WITH- HEATER A.C. BREAKER PANEL POWER OFF LIGHTS ON EACH END ADJUSTABLE STEEL LEGS INSULATED EXHAUST FAN A.C. OUTLETS TERMINAL BOARD WITH RELAY BACK ON TOP FLOOR MAT SHELF	11,587.00



SH.3 of 4

RAILROAD TRAFFIC CONTROL, INC.

P.O. Box 1479
Globe, AZ 85502

2/14/16

678.296.7542

Email: waltreustle@gmail.com

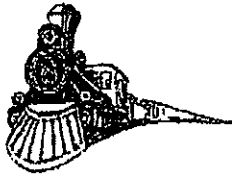
**SUBJECT: CLEVELAND COMMERCIAL R.R.
RICHMOND RD. CROSSING
DOT 262449A**

UNITSSIGNAL MATERIAL

1	XLC CROSSING LIGHT CONTROL UNIT	GETS	250991-000
1	XLC BASE		251071-100
1	VRD UNIT		250651-000
1	KAP -20 ARRESTER PANEL		
6	LIGHTNING ARRESTER BLOCK 4 TERM.	ERICO	B2700A2C1WH
6	LIGHTNING ARRESTER	"	RTSP2-30-170
3	EQUALIZER	"	RTSP2-30-50
6	TERMINAL BUSS STRAP 36"	SAFE	023839-5
60	TEST LINK WITH GOLD NUT	SAFE	02620-1X
4	TRACK DIODE TCR-6	SAFE	010130-5X
6	SINGLE ROW TERMINAL STRIP 12 TERM.	GETS	250084-112
2	BATTERY 6V155	ULRICH	6V155
3	BATTERY 4V235	ULRICH	4V235
2	BATTERY CHARGER 20EC12	RY-EQ	
1	GFD-3 GROUND FAULT DETECTOR	GETS	250651-000
8	PADLOCK		
1	EMERGENCY CONTROL BOX WITH SWITCH	FM	
1	COPPER GROUND PLATE	FM	
4	JUNCTION BOX 2' X 2'		
1	VLC-1 VITAL LOGIC GATE UNIT	GETS	250948-021
1	VLC RELAY BASE KIT	"	251071-011
1	TD-1A TRACK DRIVE UNIT	PATCO	
1	ACG-2T TRACK INVERTER	"	
1	RELAY PLUG IN 4 OHM	"	56001-979-0±
1	RELAY PLUG IN 500 OHM	"	56001-922-07
2	REBAY PLUG. BOARD WITH INSERT CONTACTS	"	A62-0650

TOTAL THIS PAGE ----- 38,995.00

TOTAL SIGNAL MATERIAL PAGES 2 & 3 -----89,142.00



PAGE 4 of 4

RAILROAD TRAFFIC CONTROL, INC.

P.O. Box 1479
Globe, AZ 85502

678.296.7542

Email: walt.reustle@gmail.com

2/14/16

CLEVELAND COMMERCIAL R.R.
RICHMOND RD.
DOT 262449A

COMMERCIAL MATERIAL

<u>UNITS</u>	<u>MATERIAL</u>	<u>PRICE</u>
4000 ft	WIRE # 6 THHN	2,000.00
500 ft.	BOND STRAND	667.00
100 ft.	# 6 BARE COPPER WIRE	44.00
200 ft.	CONDUIT SCH. 40 3"	270.00
80 ft.	CONDUIT SCH. 40 1½"	43.00
12 ea.	CONDUIT SWEEP ELL 3"	56.00
4 ea.	CONDUIT SWEEP ELL 1½"	5.00
4 ea.	CONDUIT SWEEP ELL 4"	32.00
200 ft.	MARKER RED TAPE	9.00
8 ea.	GROUND ROD WITH WELD CLAMP	65.00
1 misc.	CONDUIT MATERIALS	35.00
1 ea.	HOUSE WIRING	9,000.00
1 ea.	MISC. RAIL BOND CONNECTIONS	100.00

TOTAL ----- 12,326.00



Walt Reustle <walt.reustle@gmail.com>

Fw: CUY-SR175, Richmond Rd. DOT# 262449A, Plans START DISTANCE

1 message

Mike Kole <theplot@ameritech.net>
Fri, Jun 24, 2016 at 9:07 AM
To: Reustle Wally <walt.reustle@gmail.com>
Cc: Brown Bill <bbrown@ccrr.com>, Fink Doug <dfink@ccrr.com>, Mazo Nate <nmazo@ccrr.com>

Wally,
Please revise the plans to allow for a 10 mph approach start.
Thanks,
Mike

From: James.Tucker@dot.ohio.gov
Sent: Friday, June 24, 2016 8:08 AM
To: Mike Kole
Cc: Catherine.Stout@dot.ohio.gov; Susan.Arduni@dot.ohio.gov
Subject: CUY-SR175, Richmond Rd. DOT# 262449A, Plans

Mike,

The submitted plans for Richmond Rd have been reviewed and the site layout is acceptable. Our engineer has concerns with the approach distances. Currently you show the start lengths at 150', that only provides 20 seconds of warning time for trains approaching at 5 MPH. The Diagnostic shows the authorized train speeds are 10 MPH. With that said, the approach starts would need to be adjusted to meet the 10 MPH speeds or restrict the speeds of the approaching trains to 5 MPH. Please provide me with an update so I can get construction authorized.

Thanks,

James Tucker

Project Manager

ORDC

614-398-6897

2 attachments

CUY SR 175, Richmond Rd 262449A.pdf
387K

Scan0307.pdf
1949K



RICHMOND RD.

SIGNAL A

9'

12'

2T

12'

4"

3"

25'

LT STROBE

AC PWR.

BUNGALOW

SIGNAL B

9'

3"

35'

EOR

RICHMOND RD.

PRELIMINARY PLANS

CLEVELAND COMMERCIAL R.R.
RICHMOND RD.

DOT 262449A (SR175) SH-2079