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RECEIVED-DOCKETING DIV

2007 NOV -6 PM 12: 30

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 CSX Transportation, Indiana & Ohio Railway, and Norfolk Southern Railway to install active grade crossing warning devices in five counties

Date: November 6, 2007

The Ohio Rail Development Commission (ORDC) has authorized the funding for CSX Transportation (CSX), Indiana & Ohio Railway (IORY), and Norfolk Southern Railway (NS) to install active grade crossing warning devices at the following locations:

CSX

Auglaize County, Pusheta Township, Owl Creek Rd/TR 126, DOT# 155-270D

Miami County, City of Troy, Union St, DOT# 155-181L

Logan County, Near De Graff, CR 11, DOT# 538-716T

IORY

Clinton County, Village of Sabina, Hulse St, DOT# 151-936P

NS

Montgomery County, City of Miamisburg, Kercher St, DOT# 524-650E

These crossings were surveyed by staff from the railroads, the Commission, ORDC, and local authorities and were found to warrant upgrades. Due to the complexity of the CSX project in Miami County it is anticipated that extensions will be requested.

These projects are actual cost and will be federally funded. Staff requests an Entry with plans and estimates to be submitted within 90 days and completion within one year. Upon approval of the plans and estimates by ORDC construction may commence. A suggested case coding and heading would be:

PUCO Case No. 07- 1169 -RR-FED In the matter of the authorization of CSX Transportation, Indiana & Ohio Railway, and Norfolk Southern Railway to install active grade crossing warning devices in five counties

C: Legal Department

Please serve the following parties of record:

Ms Susan Kirkland

Ohio Rail Development Commission

50 W Broad St, 15th Floor

Columbus, Oh 43215

Mr Rick Ray

Norfolk Southern Railway

1200 Peachtree St NE, Box 123

Atlanta, Ga 30309

Mr Mel McNichols

CSX Transportation

500 Water St J-301

Jacksonville, Fl 32202

Mr Biff Conrad

Indiana & Ohio Railway

497 Circle Freeway Dr, Ste 230

Cincinnati, Oh 45246

Pusheta Township Trustees

14002 Pusheta Rd

Wapakoneta, Oh 45895

Steve Leffel

City of Troy

100 S Market St

PO Box 3003

Troy, Oh 45373

Logan County Engineer

1991 CR 13

PO Box 427

Bellefontaine, Oh 43311-0427

Mayor Dean Carnahan

99 N Howard St

Sabina, Oh 45169

Robert Stanley, City Engineer

10 N First St

Miamisburg, Oh 45342

OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION

TO: George Martin, Planner, Railroad Division, PUCO

FROM: Susan Kirkland, Supervisor, Rail-Highway Safety Section

BY: Tim Perkins, Grade Crossing Specialist Tim Perkins

SUBJECT: Grade Crossing Warning Projects

DATE: October 24, 2007

You may authorize the railroads to proceed with the non-field work for these projects. 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. The construction portion and preliminary engineering will be financed with federal funds.

Please initiate a one (1) year order with the plan and estimate due in ninety (90) days for the following. PUSHETA TWP

AUG - T.R. 126, Owi Creek - CSX AAR No. 155 270 D (Actual cost)

MIA - Union Street - CSX AAR No. 155 181 L (Actual cost) CITY OF TROY

LOG - C.R. 11 - CSX AAR No. 538 716 T (Actual cost) LOGAN COUNTY (NEAR DE GRAFF)

CLI - Hulse Street - I&O AAR No. 151 936 P (Actual cost) VILLAGE OF SABINA

MOT - Kercher Street - NS AAR No. 524 650 E (75% ORDC / 25% NS) CITY OF MIAMISBURG

Thank you for your assistance with this matter.

TP:tp

c: S. Kirkland - File

The Public Utilities Commission of Ohio

Public Utilities Commission of Ohio
Rail Division
180 East Broad Street
Columbus, OH 43215

JEFF ZWEIBEL 419-738-5643

Diagnostic Review Team Survey

Date: 9/6/07 1030 AM

Location Data

Street or Road Name: OWL CREEK RD / TR 126	
Route/Road Number (i.e. Twp., Co., SR or US) TR 126 (include SLM if State or US route)	AAR-DOT No.: 155-270 D
County: AUGLAIZE	Township: PUSHETA	City: (In or Near) WAPAKONETA
Railroad Name: CSX	Railroad Division: MIDWEST	Branch/Line Name:
Nearest RR Timetable Station: BOTKINS	RR Milepost: ~~114.86~~ 114.87

On-Site Review Team

(Include: Name – Organization – Phone Number)

1. GEORGE MARTIN PUCO 614-752-9107
2. Jim [illegible] Pusheta twp 419-738-7252
3. Jerry Fisher GA Wintzer 419 738 4913
4. John Kauck Pusheta 419-738-8542
5. Mel McNichols CSXT 904 359-1158
6. Bob ROSSMAN CSXT 904 359-1168
7. TIM PERKINS ORDC 614-644-0284
8.
9.
10.

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments	
Advance Warning Signs	☑ Yes	☐ No	2 + ACTIVE XING SIGNS	
'Stop' Signs	☐ Yes	☑ No		
'Stop Ahead' Signs	☐ Yes	☑ No		
Pavement Markings	☑ Yes	☐ No	2	
Crossbucks	☑ Yes	☐ No	2 BUCKEYE	
Number of Tracks Signs	☐ Yes	☑ No		
Inventory Tags	☑ Yes	☐ No	2	
Interconnected Highway Traffic Signal	☐ Yes	☑ No		
Mast-Mounted Flashing Lights	☐ Yes	☑ No		
Cantilever Flashing Lights	☐ Yes	☑ No	Number:	Length:
Side Lights	☐ Yes	☑ No		
Automatic Gates	☐ Yes	☑ No	Number:	Length:
Bells	☐ Yes	☑ No		
Sidewalk Gate Arms	☐ Yes	☑ No		
'No Turn' Signs	☐ Yes	☑ No		
Illumination	☐ Yes	☑ No		
Is crossing flagged by train crew?	☐ Yes	☑ No		
Other	☐ Yes	☐ No		

UPDATED (12/2006)

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 3/7/07	
Hazard Ranking 121	Date Run: 7/31/07	112

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	22	
< 1 per day		
Day thru trains	8	
Night thru trains	13	
Daytime switching movements	1	
Nighttime switching movements	0	
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks	0	
Maximum train speed	50	
Typical train speed	45	
Amtrak	NO	

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ 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

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: PUSHETA TOWNSHIP
(Who maintains this roadway?)

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	96 (2006)	
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No

Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other ____________

Roadway width: 20 ft.

Number of highway lanes	2	2
Urban or Rural?	RURAL	RURAL
Vehicle Speed: 55 MPH		

School Bus Operation: ☐ No ☒ Yes 4 Amount

Hazardous Materials Trucks: ☐ No ☒ Yes 7% Amount

Shoulders: ☒ No ☐ Yes

Is the shoulder surfaced? ☒ No ☐ Yes

Is there existing guardrail along roadway in crossing vicinity? ☒ No ☐ Yes

Is stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) ____________

Quadrant ____	Quadrant ____
Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None

Pedestrians: ☒ No ☐ Yes

Is sidewalk present? ☒ No ☐ Yes

Is there a nearby intersection that could cause queuing over the crossing? ☒ No ☐ Yes

If yes,

Distance ____

Is this intersection signalized? ☒ No ☐ Yes

Are the signals currently interconnected with the existing crossing warning devices? ☒ No ☐ Yes

Is it the consensus of the Diagnostic Review Team that this is a potential closure project: ☐ No ☐ Yes

Explain reasons:

Type of Development

☒ Open Space	☐ Institutional	Location of nearby schools:
☐ Industrial	☒ Commercial	
☒ Residential	FARMS & PLANT	

Utility Information

Is commercial power available? ☒ No ☐ Yes

Utility Provider (Company Name) CITY OF WAPAKONETA Phone Number ____

Nearest Available Power Source 1/4 MILE

What other utilities are present? NONE

Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown

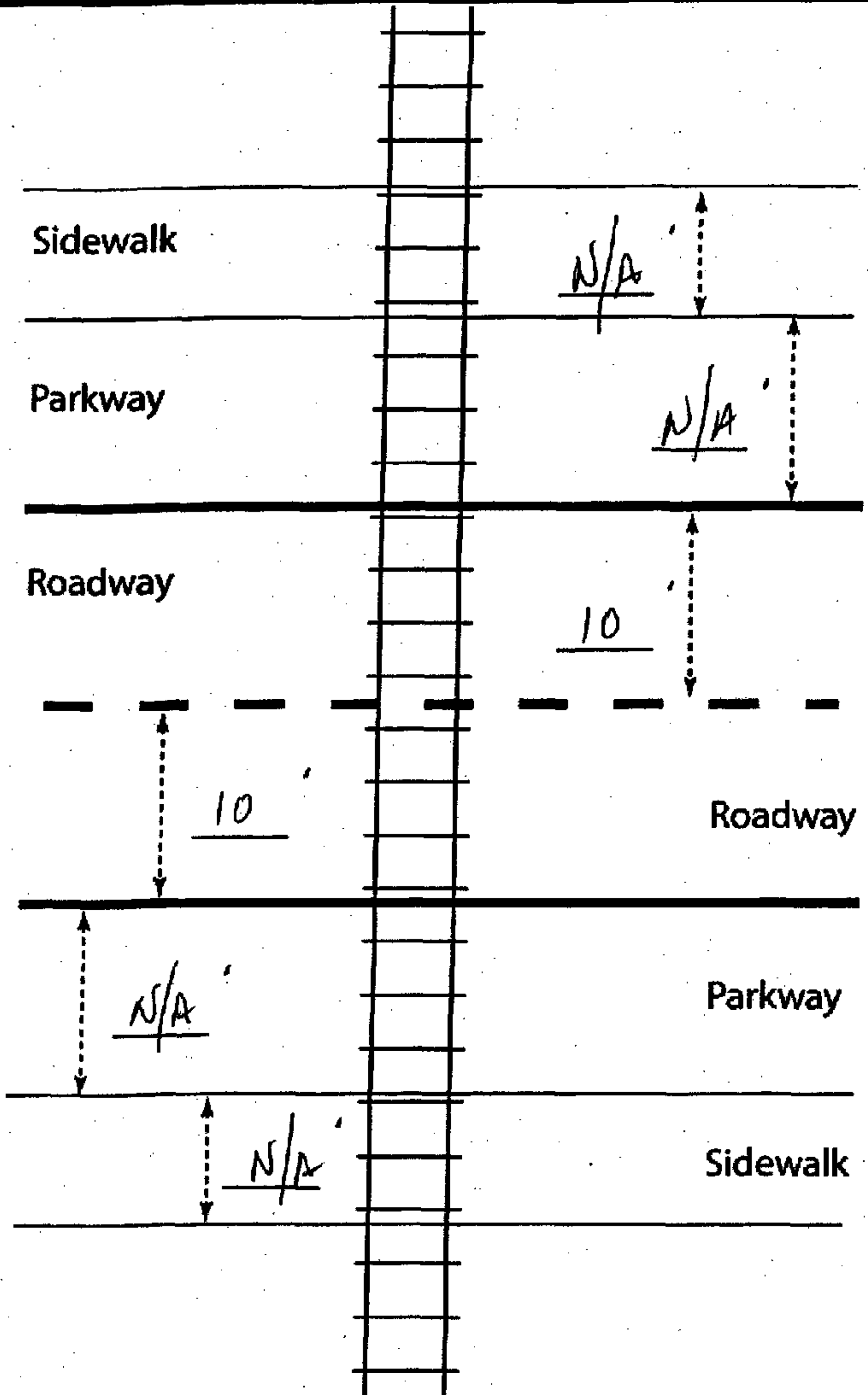
Diagnostic Team Recommendations

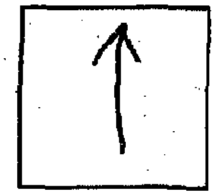
	Quadrants Needed
☒ Install/upgrade active devices	POWER NEEDS TO
☐ Automatic Flashing Lights (AFLS)	BE PULLED FROM
☐ AFLS /Cants	DIXIE HWY
☒ AFLS / Gates	
☐ AFLS / Gates / Cants	
☐ Upgrade circuitry	
☐ Sidelights	
☐ Guardrail Needed	
☐ Install/Replace curb	
☐ Other (define)	

Comments:

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

Field Dimensions



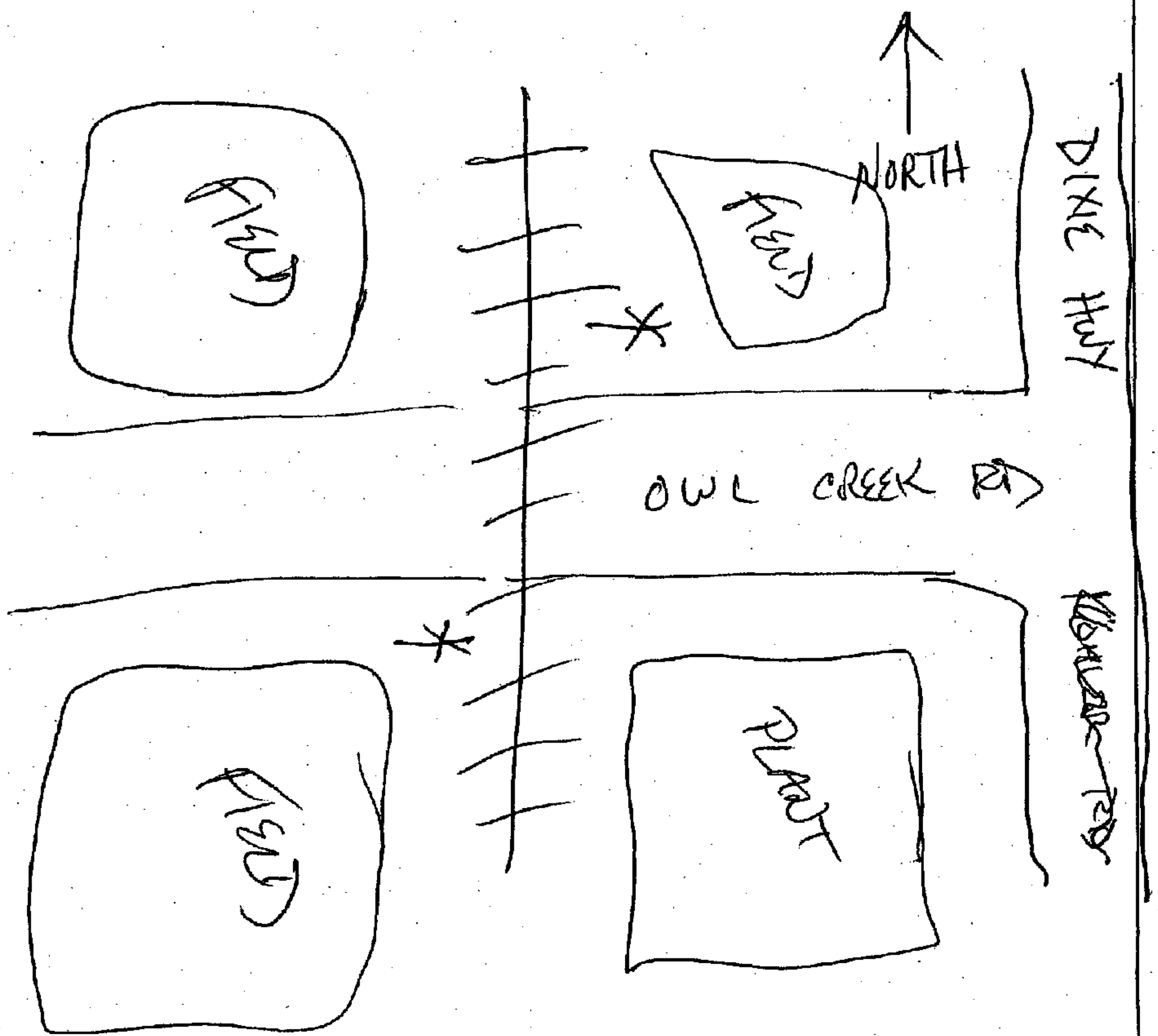


Show North Direction

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

Measurements by: GM

Field Sketch



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

Sketch by: GM

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.

The Public Utilities Commission of Ohio

Public Utilities Commission of Ohio
Rail Division
180 East Broad Street
Columbus, OH 43215

DEBBIE SWAN 937-335-1725

Diagnostic Review Team Survey

Date: 9/6/07 1PM

Location Data

Street or Road Name: UNION ST.			
Route/Road Number (i.e. Twp., Co., SR or US) (include SLM if State or US route)			AAR-DOT No.: 155-181L
County: MIAMI	Township:	City: (In or Near) TROY	
Railroad Name: CSX	Railroad Division: DETROIT		Branch/Line Name:
Nearest RR Timetable Station: TROY			RR Milepost: 78.94

On-Site Review Team

(Include: Name – Organization – Phone Number)

1. GEORGE MARTIN PUCO 614-752-9107
2. TIM PERKINS ORDC 614-644-0284
3. Mel McNichols CSXT 904-359-1158
4. Bob ROSSMAN CSXT 904-359-1166
5. NEIL E. TEAFORD CITY OF TROY 937-339-2641
6. STEVE LEFFEL " " " " " "
7.
8. FAX TO CITY OF TROY
9.
10.

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments	
Advance Warning Signs	☐ Yes	☒ No		
'Stop' Signs	☐ Yes	☒ No		
'Stop Ahead' Signs	☐ Yes	☒ No		
Pavement Markings	☐ Yes	☒ No		
Crossbucks	☒ Yes	☐ No	3	
Number of Tracks Signs	☒ Yes	☐ No	2	
Inventory Tags	☒ Yes	☐ No	2	
Interconnected Highway Traffic Signal	☐ Yes	☒ No		
Mast-Mounted Flashing Lights	☒ Yes	■ No		
Cantilever Flashing Lights	☒ Yes	■ No	Number: 1	Length: 18'
Side Lights	☐ Yes	☒ No		
Automatic Gates	☐ Yes	☒ No	Number:	Length:
Bells	☐ Yes	☒ No		
Sidewalk Gate Arms	☐ Yes	☒ No		
'No Turn' Signs	☐ Yes	☒ No		
Illumination	☒ Yes	☐ No	2	
Is crossing flagged by train crew?	☐ Yes	☒ No		
Other	☐ Yes	☐ No		

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 4/23/05	
Hazard Ranking 95	Date Run: 7/31/07	199

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	41	
< 1 per day		
Day thru trains	~~22~~ 18	
Night thru trains	20	
Daytime switching movements	3	
Nighttime switching movements	0	
Total number of tracks	2	
Number of main tracks	~~2~~ 1	
Number of other tracks	~~2~~ 1	
Maximum train speed	25	
Typical train speed	25	
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☐ 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

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 TROY
(Who maintains this roadway?)

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	380	500
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No

Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other ____________

Roadway width: 32 ft.

Number of highway lanes 2		
Urban or Rural?	URBAN	
Vehicle Speed: 25 MPH		

School Bus Operation: ☐ No ☒ Yes 4 Amount

Hazardous Materials Trucks: ☐ No ☒ Yes 2?? Amount

Shoulders: ☒ No ☐ Yes

Is the shoulder surfaced? ☒ No ☐ Yes

Is there existing guardrail along roadway in crossing vicinity? ☒ No ☐ Yes

Is stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) ____________

Quadrant NE Curb and Gutter: ☒ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☐ None	Quadrant ________ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☐ None

Pedestrians: ☐ No ☒ Yes

Is sidewalk present? ☐ No ☒ Yes

Is there a nearby intersection that could cause queuing over the crossing? ☒ No ☐ Yes

If yes,

Distance ____________

Is this intersection signalized? ☒ No ☐ Yes

Are the signals currently interconnected with the existing crossing warning devices? ☒ No ☐ Yes

Is it the consensus of the Diagnostic Review Team that this is a potential closure project: ☒ No ☐ Yes

Explain reasons:

Type of Development

☐ Open Space	☒ Institutional	Location of nearby schools:
☐ Industrial	☒ Commercial	
☒ Residential		

Utility Information

Is commercial power available? ☐ No ☒ Yes

Utility Provider (Company Name) ____________ Phone Number ____________

Nearest Available Power Source AT CROSSING

What other utilities are present? WATER (UG) OH ELECTRIC

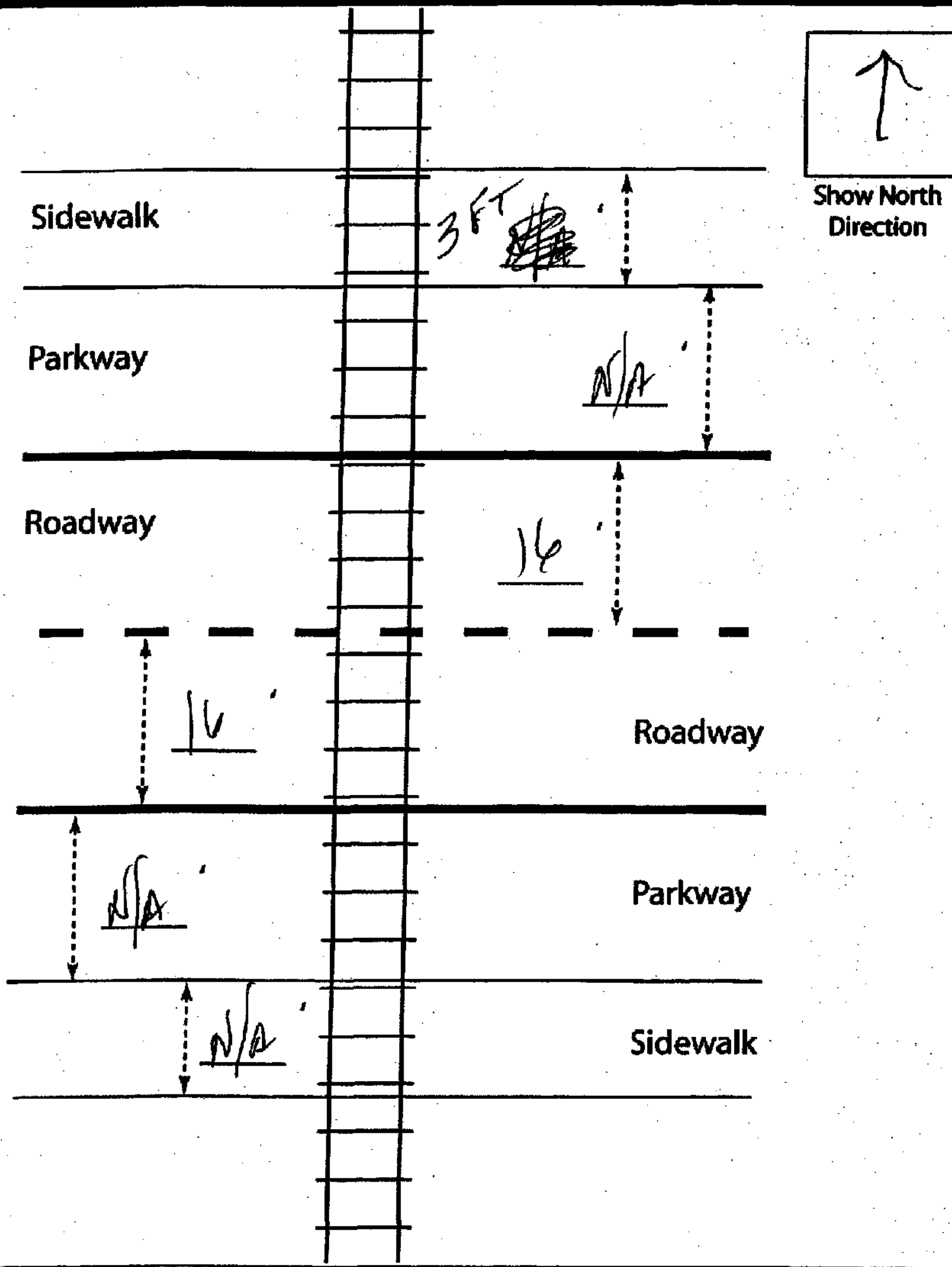
Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown (PROBABLE

Diagnostic Team Recommendations

	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
☒ AFLS / Gates	INSTALL MEDIANS FOR
☐ AFLS / Gates / Cants	GATES.
☐ Upgrade circuitry	
☐ Sidelights	REMOVE CANTILEVER
☐ Guardrail Needed	
☐ Install/Replace curb	INSTALL SIDE LIGHTS ON
☐ Other (define)	DAKOTA STREET.
Comments:	
	~~HOLD OFF ORDER UNTIL~~
☐ Install/upgrade traffic signal preemption	~~AGREEMENTS BETWEEN~~
☐ No improvements needed	
☐ Other (define)	~~CITY, DPSC AND CSX~~

REQUEST 18 MONTH ORDER BECAUSE OF STREET WORK

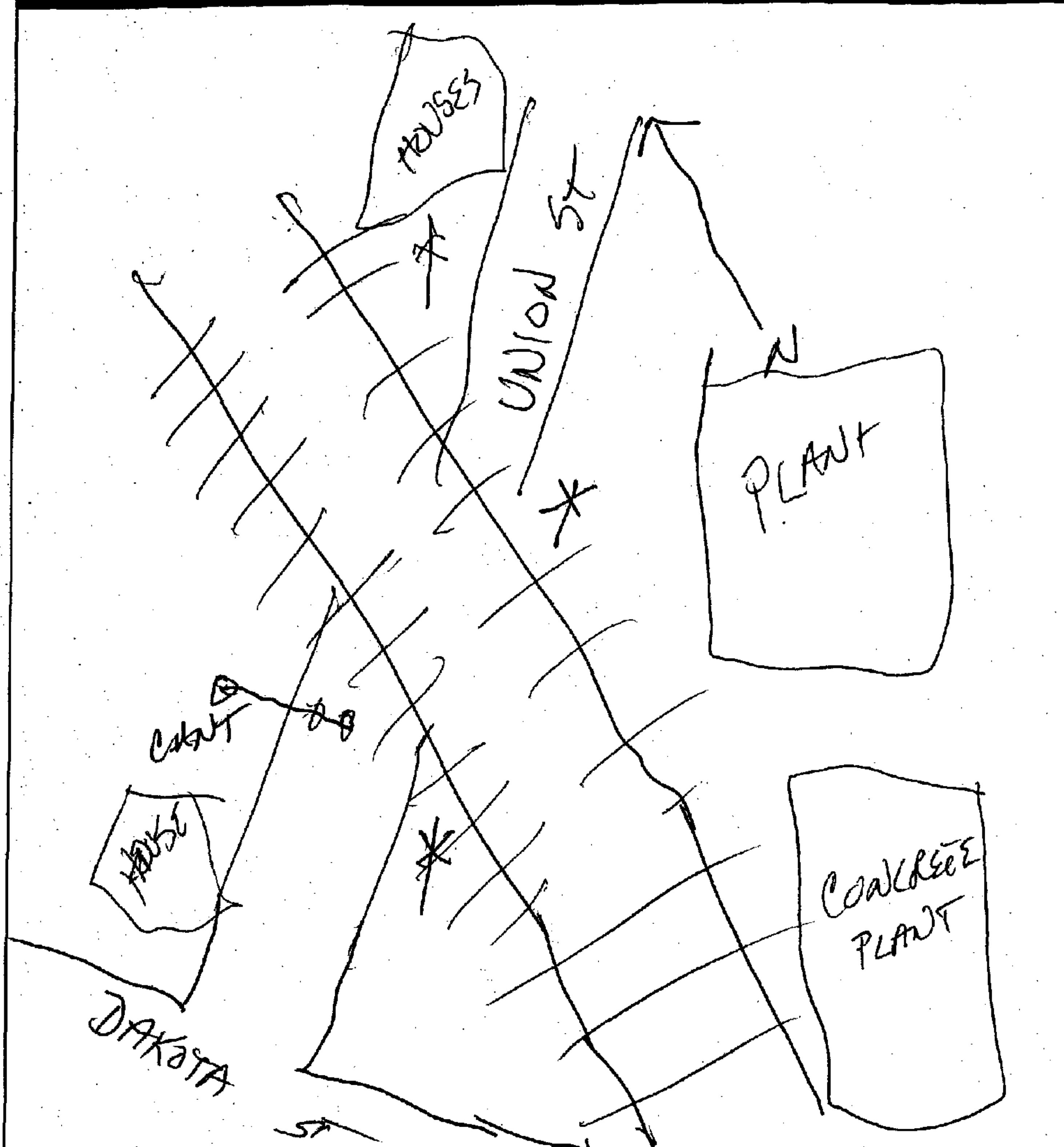
Field Dimensions



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

Measurements by: GM

Field Sketch



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

Sketch by: GM

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.

The Public Utilities
Commission of Ohio

Public Utilities Commission of Ohio
Rail Division
180 East Broad Street
Columbus, OH 43215

SCOTT COLEMAN 937-592-2791

Diagnostic Review Team Survey

Date: 9/7/07 1030 AM

Location Data

Street or Road Name: CR 11

Route/Road Number (i.e. Twp., Co., SR or US) CR 11 (include SLM if State or US route)

AAR-DOT No.: 538-716T

County: LOGAN | Township: PLEASANT | City: (In or Near) DE GRAFF

Railroad Name: CSX | Railroad Division: INDIANAPOLIS | Branch/Line Name: INDIANAPOLIS LN

Nearest RR Timetable Station: DE GRAFF | RR Milepost: 147.24

On-Site Review Team

(Include: Name – Organization – Phone Number)

1. GEORGE MARTIN PUCO 614-752-9107
2. Mel McNichols CSXT 904-359-1158
3. Bob ROSSMAN CSXT 904-359-1166
4. TIM PERKINS ORDC 614 644 0284
5. Scott Coleman Log Co Eng 937-592-2791
6.
7.
8.
9.
10.

Existing Traffic Control Devices

Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs	☑ Yes ☐ No	2
'Stop' Signs	☐ Yes ☑ No	
'Stop Ahead' Signs	☐ Yes ☑ No	
Pavement Markings	☐ Yes ☑ No	
Crossbucks	☑ Yes ☐ No	2 BUCKEYE
Number of Tracks Signs	☑ Yes ☐ No	2
Inventory Tags	☑ Yes ☐ No	2
Interconnected Highway Traffic Signal	☐ Yes ☑ No	
Mast-Mounted Flashing Lights	☐ Yes ☑ No	
Cantilever Flashing Lights	☐ Yes ☑ No	Number: Length:
Side Lights	☐ Yes ☑ No	
Automatic Gates	☐ Yes ☑ No	Number: Length:
Bells	☐ Yes ☑ No	
Sidewalk Gate Arms	☐ Yes ☑ No	
'No Turn' Signs	☐ Yes ☑ No	
Illumination	☑ Yes ☐ No	
Is crossing flagged by train crew?	☐ Yes ☑ No	
Other	☐ Yes ☐ No	

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 8/3/06	
Hazard Ranking 37	Date Run: 7/31/07	39

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	39	
< 1 per day		
Day thru trains	16	
Night thru trains	19	
Daytime switching movements	2	
Nighttime switching movements	2	
Total number of tracks	2	
Number of main tracks	2	
Number of other tracks	0	
Maximum train speed	60	
Typical train speed	50	
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ 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 PASSING TRAINS

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: (Who maintains this roadway?) LOGAN COUNTY

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	194 (2006)	
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No

Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other ____________

Roadway width: 20 ft.

Number of highway lanes	2	2
Urban or Rural?	RURAL	RURAL
Vehicle Speed: 55 MPH		

School Bus Operation: ☐ No ☒ Yes 4 Amount

Hazardous Materials Trucks: ☐ No ☒ Yes 17 Amount

Shoulders: ☒ No ☐ Yes

Is the shoulder surfaced? ☒ No ☐ Yes

Is there existing guardrail along roadway in crossing vicinity? ☒ No ☐ Yes

Is stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) ____________

Quadrant ________	Quadrant ________
Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None

Pedestrians: ☒ No ☐ Yes

Is sidewalk present? ☒ No ☐ Yes

Is there a nearby intersection that could cause queuing over the crossing? ☒ No ☐ Yes

If yes,

Distance ____________

Is this intersection signalized? ☒ No ☐ Yes

Are the signals currently interconnected with the existing crossing warning devices? ☒ No ☐ Yes

Is it the consensus of the Diagnostic Review Team that this is a potential closure project ☒ No ☐ Yes

Explain reasons:

Type of Development

☒ Open Space ☐ Institutional

☐ Industrial ☐ Commercial

☒ Residential

Location of nearby schools: 2+ MILES

Utility Information

Is commercial power available? ☐ No ☒ Yes

Utility Provider (Company Name) LOGAN COUNTY CO-OP Phone Number ____________

Nearest Available Power Source AT CROSSING

What other utilities are present? UG CABLE OH ELECTRIC - E. SIDE OF CROSSING

Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown

Diagnostic Team Recommendations

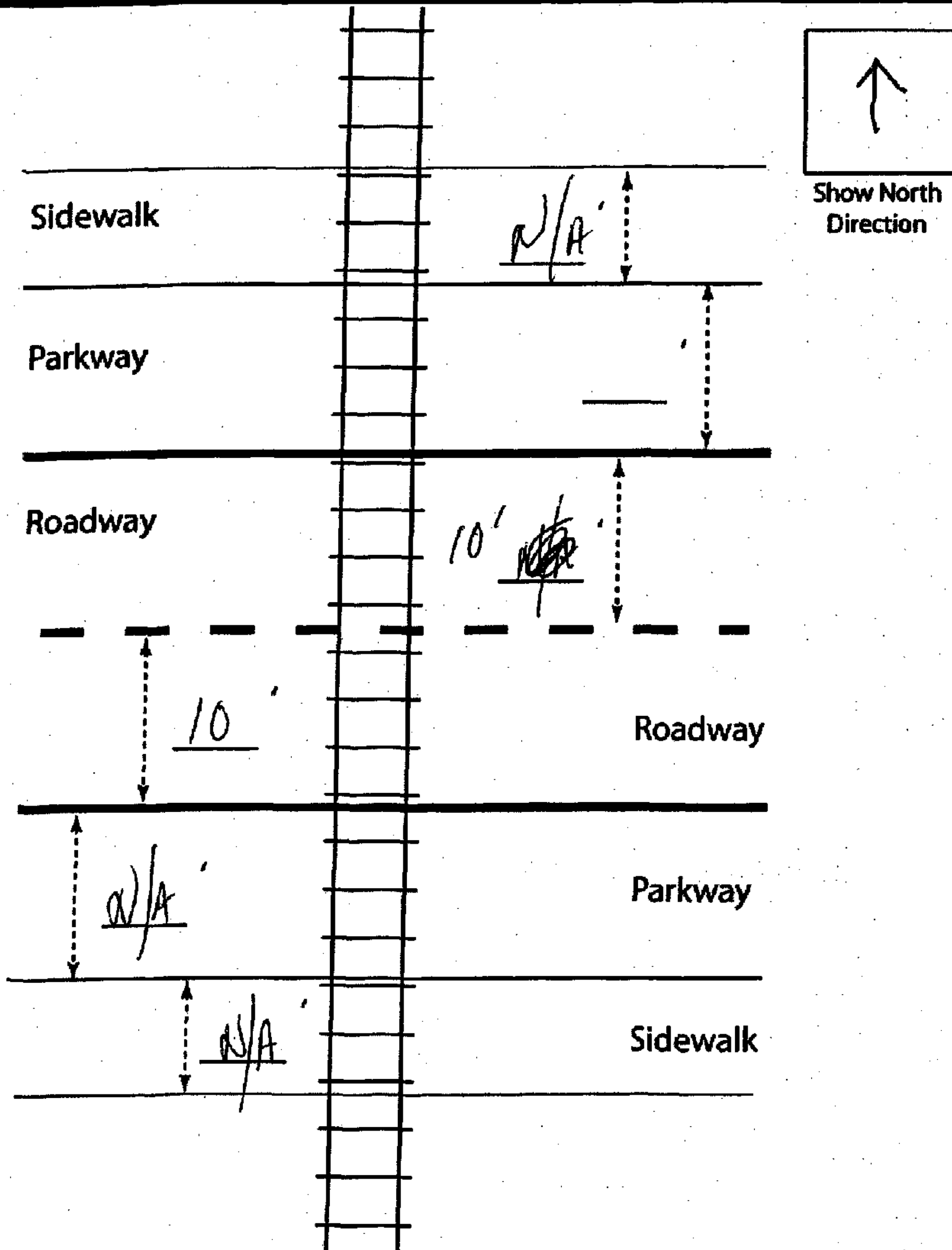
	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
☒ AFLS / Gates	
☐ AFLS / Gates / Cants	
☐ Upgrade circuitry	
☐ Sidelights	
☐ Guardrail Needed	
☐ Install/Replace curb	
☐ Other (define)	

Comments:

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

UPDATED (12/2006)

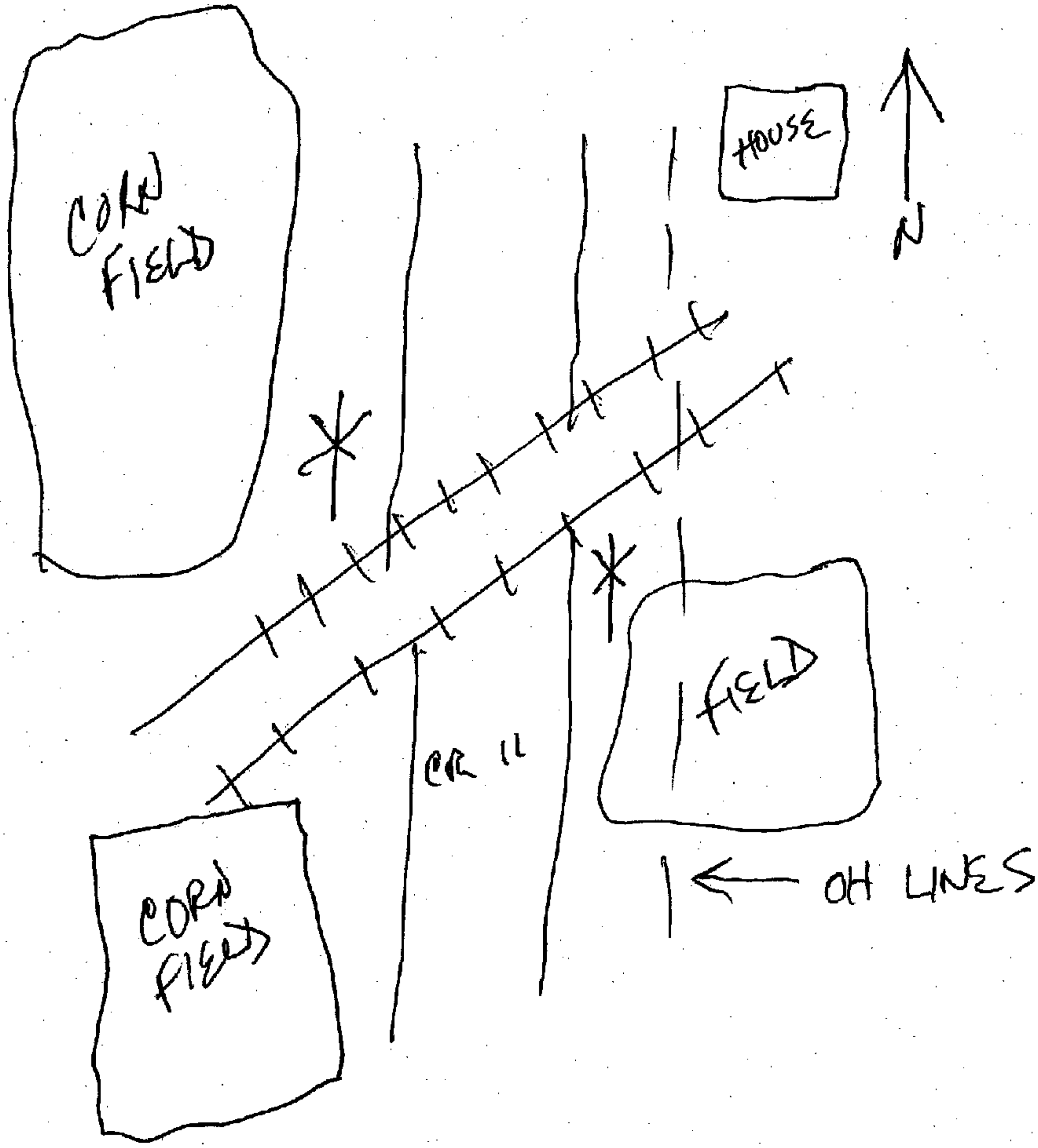
Field Dimensions



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

Measurements by: CM

Field Sketch



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

Sketch by: GM

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.

The Public Utilities Commission of Ohio

Public Utilities Commission of Ohio
Rail Division
180 East Broad Street
Columbus, OH 43215

BOB DEAN 937-302-0840

Diagnostic Review Team Survey

Date: 8/30/07 1030 AM

Location Data

Street or Road Name: HULSE ST.

Route/Road Number (I.e. Twp., Co., SR or US) (include SLM if State or US route)

AAR-DOT No.: 151-936P

County: CLINTON | Township: | City (In or Near) SABINA

Railroad Name: INOH | Railroad Division: LOUISVILLE | Branch/Line Name:

Nearest RR Timetable Station: SABINA | RR Milepost: 66.13

On-Site Review Team

(Include: Name – Organization – Phone Number)

1. GEORGE MARTIN PUCO 614-752-9107
2. Tod Darfus ORDC 614-644-0307
3. Don Clark ASG, RailAmerica 859-391-5530
4. Dean Gandlar MAYOR 584-2123
5. Bob Dean VA 937-584-9735
6.
7.
8.
9.
10.

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments	
Advance Warning Signs	☑ Yes	☐ No	2	
'Stop' Signs	☐ Yes	☑ No		
'Stop Ahead' Signs	☐ Yes	☑ No		
Pavement Markings	☐ Yes	☑ No		
Crossbucks	☑ Yes	☐ No		
Number of Tracks Signs	☐ Yes	☑ No		
Inventory Tags	☑ Yes	☐ No	1	
Interconnected Highway Traffic Signal	☐ Yes	☑ No		
Mast-Mounted Flashing Lights	☐ Yes	☑ No		
Cantilever Flashing Lights	☐ Yes	☑ No	Number:	Length:
Side Lights	☐ Yes	☑ No		
Automatic Gates	☐ Yes	☑ No	Number:	Length:
Bells	☐ Yes	☑ No		
Sidewalk Gate Arms	☐ Yes	☑ No		
'No Turn' Signs	☐ Yes	☑ No		
Illumination	☑ Yes	☐ No	1	
Is crossing flagged by train crew?	☐ Yes	☑ No		
Other	☐ Yes	☐ No		

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 4/13/05	
Hazard Ranking 98	Date Run: 7/31/07	95

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	6	
< 1 per day		
Day thru trains	2	
Night thru trains	2	
Daytime switching movements	2	
Nighttime switching movements	0	
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks	0	
Maximum train speed	30	
Typical train speed	30	
Amtrak	NO	

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☑ 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

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: (Who maintains this roadway?) VILLAGE OF SABINA

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	1295 (2003)	
Highway paved	☑ Yes ☐ No	☐ Yes ☐ No

Roadway Surface: ☑ Blacktop ☐ Gravel ☐ Concrete ☐ Other ____________

Roadway width: 20 ft.

Number of highway lanes	2	
Urban or Rural?	URBAN	
Vehicle Speed: 25 MPH		

School Bus Operation: ☐ No ☒ Yes 6 Amount

Hazardous Materials Trucks: ☐ No ☐ Yes _____ Amount

Shoulders: ☑ No ☐ Yes

Is the shoulder surfaced? ☑ No ☐ Yes

Is there existing guardrail along roadway in crossing vicinity? ☑ No ☐ Yes

Is stopping site distance adequate? (See Table 2) ☑ Yes ☐ No If no, deficient approach(es) ____________

Quadrant ______	Quadrant ______
Curb and Gutter: [ ] Functional (Curb height = 4" or more) [ ] Non-functional (Curb height = Less than 4") [x] None	Curb and Gutter: [ ] Functional (Curb height = 4" or more) [ ] Non-functional (Curb height = Less than 4") [x] None

Pedestrians: [x] No [ ] Yes

Is sidewalk present? [x] No [ ] Yes

Is there a nearby intersection that could cause queuing over the crossing? [x] No [ ] Yes

If yes,

Distance ______

Is this intersection signalized? [ ] No [x] Yes

Are the signals currently interconnected with the existing crossing warning devices? [x] No [ ] Yes

Is it the consensus of the Diagnostic Review Team that this is a potential closure project: [x] No [ ] Yes

Explain reasons:

Type of Development

[ ] Open Space	[ ] Institutional	Location of nearby schools:
[ ] Industrial	[ ] Commercial	1/4 MILE
[x] Residential		

Utility Information

Is commercial power available? [ ] No [x] Yes

Utility Provider (Company Name) DP&L ? Phone Number ______

Nearest Available Power Source AT XING

What other utilities are present? UG CABLE

Is there potential utility conflict(s) [ ] Yes [ ] No [x] Unknown

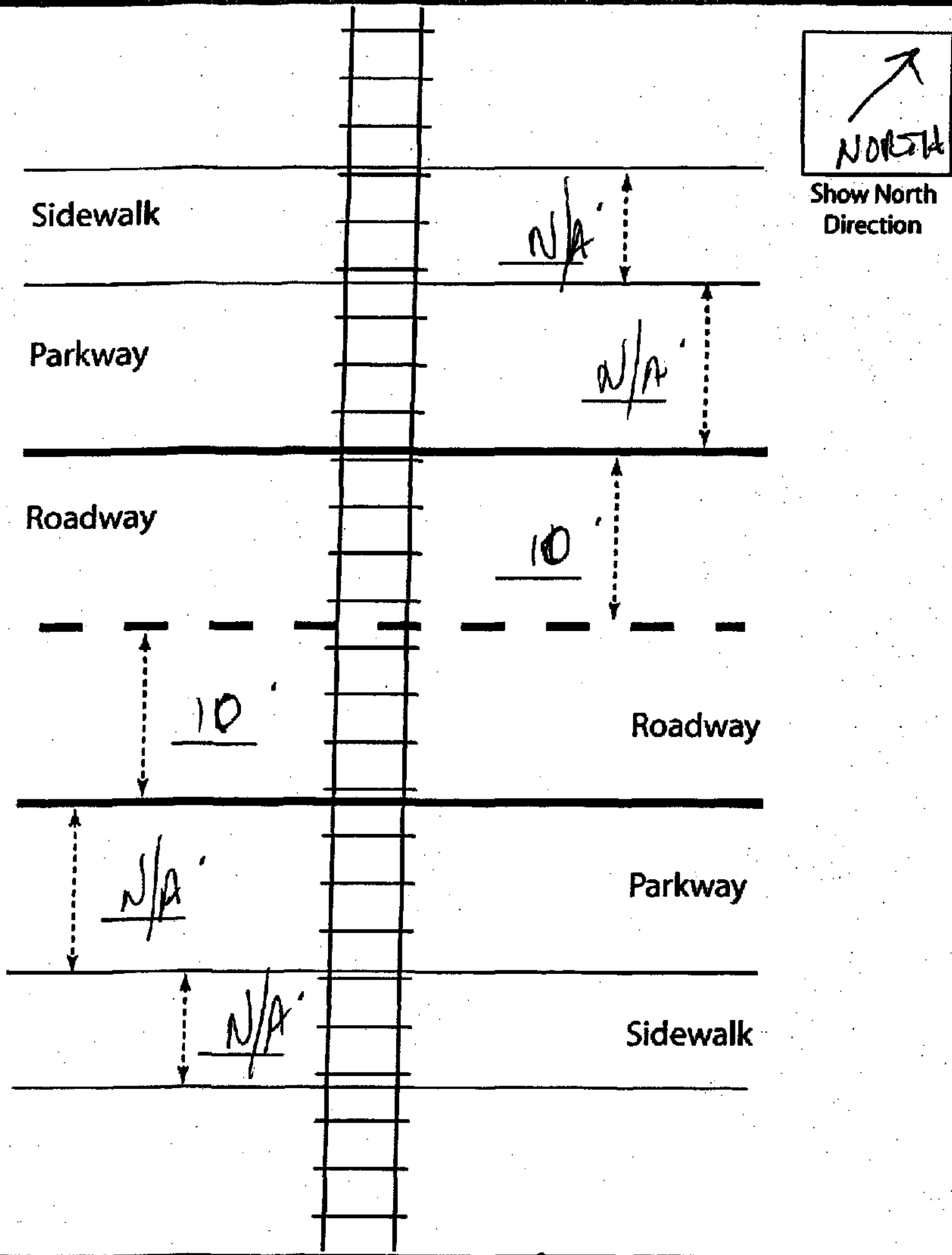
Diagnostic Team Recommendations

	Quadrants Needed
[x] Install/upgrade active devices	
[ ] Automatic Flashing Lights (AFLS)	
[ ] AFLS /Cants	
[x] AFLS / Gates	
[ ] AFLS / Gates / Cants	
[ ] Upgrade circuitry	
[ ] Sidelights	
[ ] Guardrail Needed	
[ ] Install/Replace curb	
[ ] Other (define)	

Comments:

[ ] Install/upgrade traffic signal preemption	
[ ] No improvements needed	
[ ] Other (define)	

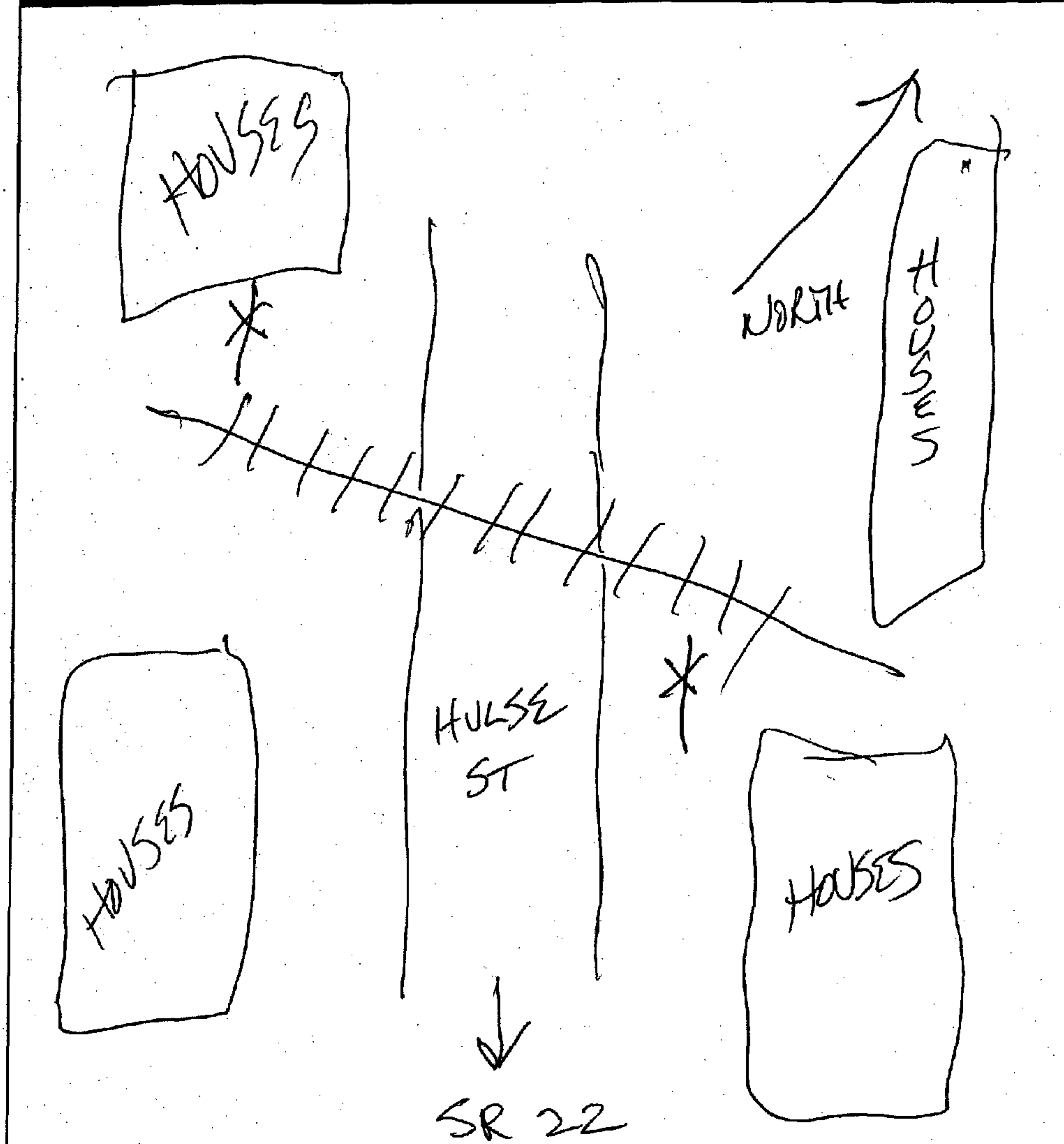
Field Dimensions



Crossing Angle ☐ 0-29° ☐ 30-59° ☑ 60-90° Measured in SE Quadrant?

Measurements by: GM

Field Sketch



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

Sketch by: Cam

TABLE 1

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
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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.

The Public Utilities Commission of Ohio

Public Utilities Commission of Ohio
Rail Division
180 East Broad Street
Columbus, OH 43215

JANE HANSEL 937-866-3303

Diagnostic Review Team Survey

Date: 9/11/07 1030 AM

Location Data

Street or Road Name: KERCHER ST			
Route/Road Number (i.e. Twp., Co., SR or US) (Include SLM if State or US route)		AAR-DOT No.: 524-650 E	
County: MONTGOMERY	Township:	City: (In or Near) MIAMISBURG	
Railroad Name: NS	Railroad Division: DEARBORN	Branch/Line Name: CINCINNATI LINE	
Nearest RR Timetable Station: OXFORD		RR Milepost: 217.7	

On-Site Review Team

(Include: Name – Organization – Phone Number)

1. GEORGE MARTIN PUCO 614-752-9107
2. TIM PERKINS ORDC 614-644-0284
3. B.S. Wimmer NSC 937-903-2286
4. RJ HARTMAN NS C&S 937-308-2490
5. John McLean City of Msbg 937-847-6537
6. BOB STANLEY CITY ENGINEER 937 847-6534
7.
8.
9.
10.

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments	
Advance Warning Signs	☑ Yes	☐ No	1 WEST OF CROSSING	
'Stop' Signs	☐ Yes	☑ No		
'Stop Ahead' Signs	☐ Yes	☑ No		
Pavement Markings	☑ Yes	☐ No	2	
Crossbucks	☑ Yes	☐ No	2	
Number of Tracks Signs	☑ Yes	☐ No	2	
Inventory Tags	☑ Yes	☐ No	2	
Interconnected Highway Traffic Signal	☐ Yes	☑ No		
Mast-Mounted Flashing Lights	☑ Yes	☐ No	2	
Cantilever Flashing Lights	☐ Yes	☑ No	Number:	Length:
Side Lights	☐ Yes	☑ No		
Automatic Gates	☐ Yes	☑ No	Number:	Length:
Bells	☐ Yes	☑ No		
Sidewalk Gate Arms	☐ Yes	☑ No		
'No Turn' Signs	☐ Yes	☑ No		
Illumination	☑ Yes	☐ No	1	
Is crossing flagged by train crew?	☐ Yes	☑ No		
Other	☐ Yes	☐ No		

UPDATED (12/2006)

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 6/18/04	
Hazard Ranking 90	Date Run: 7/31/07	86

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	18.	
< 1 per day		
Day thru trains	6	
Night thru trains	10	
Daytime switching movements	2	
Nighttime switching movements	0	
Total number of tracks	2	
Number of main tracks	2	
Number of other tracks	0	
Maximum train speed	45	
Typical train speed	45	
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☐ Yes ☒ No (NE QUAD)

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 PASSING TRAINS

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:
(Who maintains this roadway?) CITY OF MIAMISBURG

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	2120	2250
Highway paved	☑ Yes ☐ No	☑ Yes ☐ No

Roadway Surface: ☑ Blacktop ☐ Gravel ☐ Concrete ☐ Other ____________

Roadway width: 32 ft.

Number of highway lanes	2	2
Urban or Rural?	URBAN	URBAN
Vehicle Speed: 25 MPH		

School Bus Operation: ☐ No ☑ Yes ____ Amount 9

Hazardous Materials Trucks: ☑ No ☐ Yes ____ Amount

Shoulders: ☒ No ☐ Yes

Is the shoulder surfaced? ☑ No ☐ Yes

Is there existing guardrail along roadway in crossing vicinity? ☒ No ☐ Yes

Is stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) ____________

Quadrant N Curb and Gutter: [X] Functional (Curb height = 4" or more) [ ] Non-functional (Curb height = Less than 4") [ ] None	Quadrant SW Curb and Gutter: [X] Functional (Curb height = 4" or more) [ ] Non-functional (Curb height = Less than 4") [ ] None

Pedestrians: [ ] No [X] Yes

Is sidewalk present? [ ] No [X] Yes

Is there a nearby intersection that could cause queuing over the crossing? [X] No [ ] Yes

If yes,

Distance ______________

Is this intersection signalized? [ ] No [X] Yes

Are the signals currently interconnected with the existing crossing warning devices? [X] No [ ] Yes

Is it the consensus of the Diagnostic Review Team that this is a potential closure project: [X] No [ ] Yes

Explain reasons:

Type of Development

[ ] Open Space	[ ] Institutional	Location of nearby schools:
[X] Industrial	[ ] Commercial	
[X] Residential		

Utility Information

Is commercial power available? [ ] No [X] Yes

Utility Provider (Company Name) DP&L Phone Number ______________

Nearest Available Power Source AT CROSSING (NEW ELECTRIC DROP)

What other utilities are present? UG CABLE OH ELECTRIC

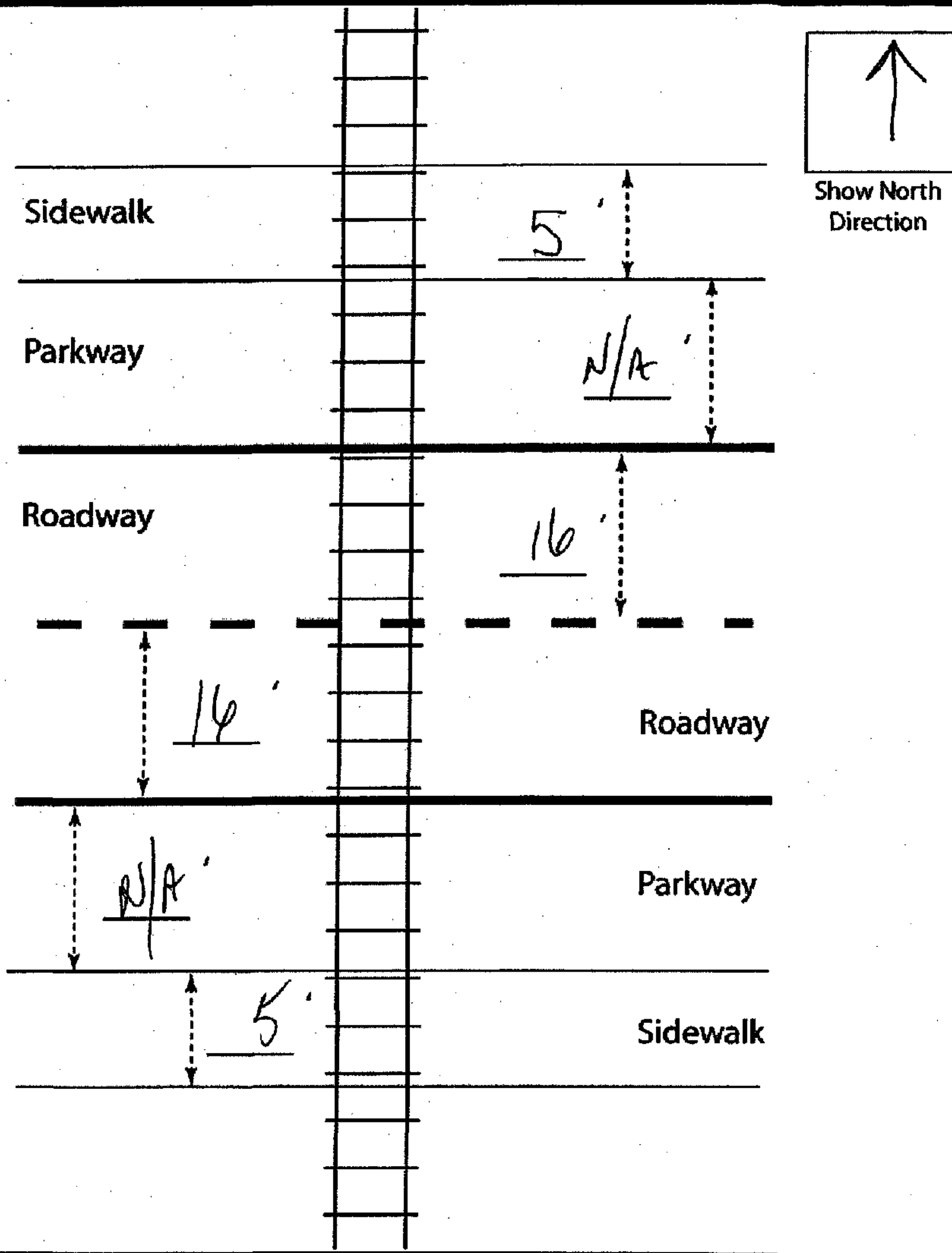
Is there potential utility conflict(s) [ ] Yes [ ] No [X] Unknown

Diagnostic Team Recommendations

	Quadrants Needed
[X] Install/upgrade active devices	
[ ] Automatic Flashing Lights (AFLS)	
[ ] AFLS /Cants	
[X] AFLS / Gates	
[ ] AFLS / Gates / Cants	
[ ] Upgrade circuitry	
[ ] Sidelights	
[ ] Guardrail Needed	
[ ] Install/Replace curb	
[ ] Other (define)	
Comments:	
[ ] Install/upgrade traffic signal preemption	
[ ] No improvements needed	
[X] Other (define)	CITY TO REPLACE ADVANCE WARNING SIGN THAT WAS MISSING.

UPDATED (12/2006)

Field Dimensions



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

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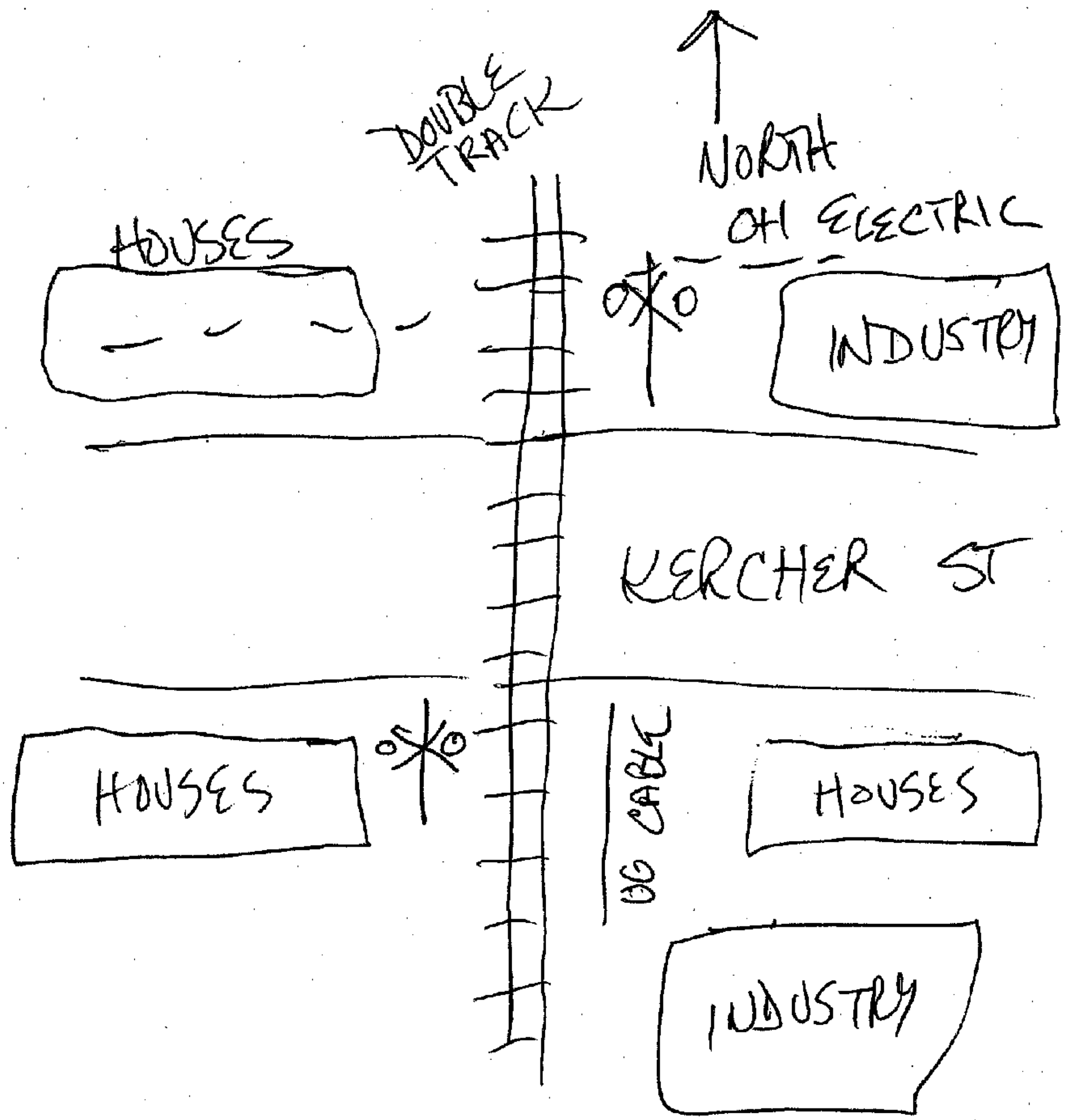

Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in SW Quadrant?

Sketch by: CAM

UPDATED (12/2006)

TABLE 1

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
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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:

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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:

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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.