



### RECEIVED-DOCKETING DIV

### 2012 JAN 20 AM 11: 04

### **Public Utilities Commission of Ohio**

### PHCO

# Memo

To:

**Docketing Division** 

From:

George Martin, Grade Crossing Planner, Rail Division

Re:

In the matter of the authorization of CSX Transportation to install an active grade crossing

warning device in Rush Creek Township, Logan County

Date:

January 20, 2012

The Ohio Rail Development Commission (ORDC) has secured funding and approved the plan and estimate for a flashing light and roadway gate project located in Rush Creek Township, Logan County, TR 110, DOT# 518365S. The crossing was surveyed on March 16, 2011, under the Commission's hazard elimination program, and was found to warrant the upgrade.

This project is actual cost and will be paid for with federal funds. As the plan and estimate have already been submitted and approved, staff requests an Entry with completion of the project 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. 12- 0388 -RR-FED In the matter of the authorization of CSX Transportation to install an active grade crossing warning device in Rush Creek Township, Logan County

C: Legal Department

Please serve the following parties of record

Page 1

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business. Date Processed JAN 2 0 2012 Technician and the same of th

Ms Susan Kirkland

Ohio Rail Development Commission

1980 West Broad St, 2<sup>nd</sup> Floor

Columbus, Oh 43223

Ms Karen Murphy

**CSX Transportation** 

500 Water St, J-301

Jacksonville, FI 32202

Rush Creek Township Trustees

6143 CR 20

Rushylvania, Oh 43347

Dayton Power & Light

1065 Woodman Dr

Dayton, Oh 45432-1423

### OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

Leah Thomas-Dalton, Rail Division Chief, PUCO

FROM:

Susan Kirkland, Manager, Safety Section, ORDC

BY:

Tim Perkins, Grade Crossing Specialist Jun Kerkeine

SUBJECT:

Grade Crossing Warning Project, PID No. 90636, LOG-TR 110-CSX, AAR

No. 518 365 S

DATE:

**January 20, 2012** 

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on March 16, 2011. The Ohio Rail Development Commission (ORDC) 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 construction authorization is made with the stipulation and understanding that any field work needs prior approval before the 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 <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment:

Diagnostic Review

Plan & Estimate

c:

George Martin, PUCO

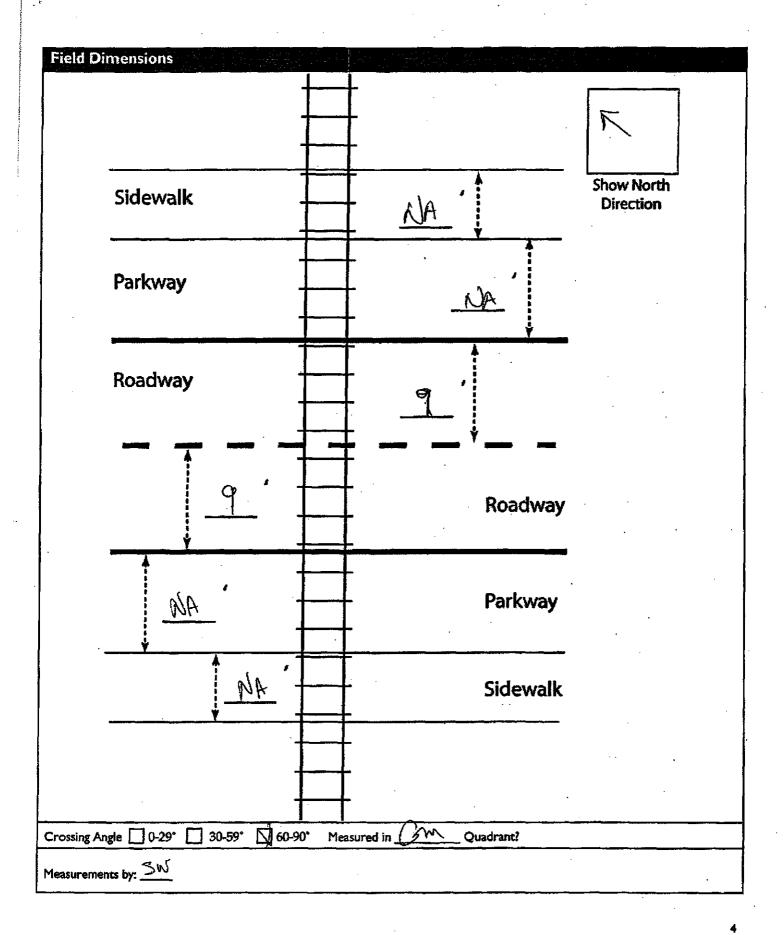
ORDC Project Manager (file)



Diagnostic Review Team Survey								
		Date: 3 16 11 11 AM						
Location Data								
Street or Road Name: TO 110								
Route/Road Number (i.e. Twp., Co., SR or US) TR ( (Include SLI	M *C C I IC	AAR-DOT 5183655						
County: LOGAN Township:	WSH CREEK CHANT RU	SHYLVANIA						
Railroad Name: C5X	Railroad Division: TNU (TNAGOL)	Branch/Line COLUMBUS						
Nearest RR Timetable Station: ADA	GREAT LAILES	RR Milepost: 130.29						
On-Site Review Team								
(Include: Name - Organization - Phone Number	<u> </u>							
1 A A	PUCO 614-752-91	19-7						
	ORDC 614-644-07	284.						
		20 7						
	Englage							
	3× (437)-877-9013							
	Tek Ins, 740 375 620							
	TEK. IHSP. 740 375 620	<b>q</b>						
	CREEK TWP TRUSTED 937-468	3-2052						
8. Harold D. mobiley Russ								
9.		•						
10. TR 20%	(538717A) AS	147.94 KEMENE						
Existing Traffic Control Devices								
Type of Warning Devices	/installed?	Quantity/Comments						
Advance Warning Signs	✓ Yes Dio	2-						
'Stop' Signs	☐ Yes 🗹 No							
'Stop Ahead' Signs	☐ Yes ☑ No							
Pavement Markings	☐ Yes ☐ No							
Crossbucks	□Yes □ No	2 STANDARD						
Number of Tracks Signs	☐ Yes ☑ No							
Inventory Tags	☐ Yes ☐ No							
Interconnected Highway Traffic Signal	☐ Yes ☑ No							
Mast-Mounted Flashing Lights		N1						
Cantilever Flashing Lights Side Lights	Yes	Number: Length:						
Automatic Gates		Number: Length:						
Belts	☐ Yes ☑ No	Number: Lengui.						
Sidewalk Gate Arms								
'No Turn' Signs	Yes ☑No							
Illumination	☐ Yes ☑ No							
Is crossing flagged by train crew?	☐ Yes ☑ No							
Other	Yes No							
<del></del>		<del></del>						

Safety Data (Obtain crash repo	rts, if possible, prior to review)							
	Initial Information (from database)	Revised						
Number & dates of crashes in previous 5 years	0 11							
Hazard Ranking 25	Date Run: 27 11	244 3 21 11						
Railroad Data								
Railroad Characteristics	Initial Information (from database)	Revised						
Total trains per day	53 (2/4/11)							
<   per day								
Day thru trains	25							
Night thru trains	26	· .						
Daytime switching movements	2							
Nighttime switching movements								
Total number of tracks	2							
Number of main tracks	2							
Number of other tracks								
Maximum train speed	55 - 60							
Typical train speed	<u> </u>	<u> </u>						
Amtrak	<u> </u>	<u> </u>						
If non-gated crossing, is clearing sight distant	ce adequate in all quadrants? (See Table 1)	✓ Yes   □ No						
If multiple tracks, can two trains occupy cro-	ssing at the same time? Yes No	425						
Can one train block the motorists' view of a	unother train at crossing? Yes (Explain be	elow) 🔲 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, Crossing DOT #(if different)		<del>_</del>						
If yes, Crossing DOT #(if different)		<del>_</del>						
If yes, Crossing DOT #(if different)  If yes, distance (take mean result blickway Data		<del>_</del>						
If yes, Crossing DOT #(if different)  If yes, distance (take mean result blickway Data	surement between track centerlines at close	<del>_</del>						
If yes, Crossing DOT #(if different)  If yes, distance (take mean read way Data  Local Highway Authority: (Who maintains this roadway!)	surement between track centerlines at close	est point along roadway)						
If yes, Crossing DOT #(if different)   If yes, distance (take mean condway Data   Local Highway Authority: (Who maintains this roadway!)  Roadway Characteristics	surement between track centerlines at close  USH CKEK TOWNSHIP  Initial Information (from database)	est point along roadway)						
If yes, Crossing DOT #(if different) If yes, distance (take mean readway Data  Local Highway Authority: (Who maintains this roadway!)  Roadway Characteristics  Average daily traffic	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  150 (2003)	est point along roadway)  Revised						
If yes, Crossing DOT #(if different) If yes, distance	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  (150 (2003)  Yes  No	est point along roadway)  Revised						
If yes, Crossing DOT #(if different) If yes, distance	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  (150 (2003)  Yes  No	est point along roadway)  Revised						
If yes, Crossing DOT #(if different)	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  (150 (2003)  Yes  No	est point along roadway)  Revised						
If yes, Crossing DOT #(if different) If yes, distance	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  //50 (2003)  [Yes	Revised    Yes   No						
If yes, Crossing DOT #(if different) If yes, distance	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  //50 (2003)  [Yes	Revised    Yes   No						
If yes, Crossing DOT #(if different) If yes, distance	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  //50 (2003)  Yes	Revised    Yes   No     Ru RA C						
If yes, Crossing DOT #(if different) If yes, distance	surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  //50 (2003)  [Yes	Revised    Yes   No     Ru RA C						
If yes, Crossing DOT #(if different) If yes, distance	Surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  (150 (2003)  Yes	Revised    Yes   No     Ru RA C						
If yes, Crossing DOT #(if different) If yes, distance	Surement between track centerlines at close  USH CREEK TOWNSHIP  Initial Information (from database)  (150 (2003)  Yes	Revised    Yes   No     Ru RA C						

Quadrant	Quadrant						
Curb and Gutter: Tunctional (Curb height = 4" or more)	Curb and Gutter: Functional (Curb height = 4" or more)						
Non-functional (Curb height = Less than 4")	Non-functional (Curb height = Less than 4")						
None	None						
Pedestrians: TNo Yes							
Is sidewalk present? No Yes							
Is there a nearby intersection that could cause queuing over the co	rossing? No Yes						
If yes, Distance							
Is this intersection signalized? No Yes							
Are the signals currently interconnected with the existing crossi	ing warning devices? No Yes						
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	tential closure project: No Yes						
Type of Development							
	r schools:						
Residential	HIN 22 MILES						
Utility Information							
Is commercial power available? No Yes							
Utility Provider (Company Name) DP&L OR COO	Phone Number						
Nearest Available Power Source NOAT XING							
	TIC 06						
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	known						
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							
Guardrail Needed Install/Replace curb							
Guardrail Needed Install/Replace curb Other (define)							
Guardrail Needed Install/Replace curb							
Guardrail Needed Install/Replace curb Other (define)							
Guardrail Needed Install/Replace curb Other (define) Comments:							
Guardrail Needed Install/Replace curb Other (define)							
Guardrail Needed Install/Replace curb Other (define) Comments: Install/upgrade traffic signal preemption							



Field Sketch
TR 110
HUMPED CROSSING
Crossing Angle 0-29° 30-59° \$\infty\$ 60-90° Measured in \$\infty\$ Quadrant?  Sketch by: \$\infty\$

TABLE I

Clearing Sight Distances

Table 2

#### **Stopping Sight Distances**

Distance (dT) Along Rallroad from Crossing (ft)
240
360
480
600
720
840
960
1080
1200
1320
1440
1560
1680
1800
1920
2040
2160

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

#### Notes:

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

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

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				
-A					

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.



Karen E. Murphy, P. E. Project Manager – Public Projects 500 Water Street (S/C 1301) Jacksonville, FL 32202 Tel. 904-359-1650 Karen\_Murphy@csx.com

January 5, 2012

Mr. Tim Perkins Manager, Safety Programs Ohio Rail Development Commission 1980 West Broad Street, Second Floor Columbus, OH 43223

Subject: Rushylvania, Logan County, OH - Install FLS&G-TR 110 (Kennedy Road);

DOT 518365S; Milepost QI-130.29; PID 90636; OH0851

Dear Mr. Perkins:

Enclosed for your review and approval are the circuit plans and Signal Force Account Estimate in the amount of \$256,101.00 for the above referenced project.

We await receipt of your further advice and /or approval of the project cost and authority to proceed.

If I can be of further assistance, please do not hesitate to call.

Very truly yours,

Karen E. Murphy, P.E.

Project Manager, Public Projects

Cc: Jill Henry Leah Dalton Susan Kirkland Susan Arduini

George Martin

ABOBIVED

2012 JAN | | AM | |: 35

### CSX TRANSPORTATION, INC. FORCE ACCOUNT ESTIMATE

ACCT. CODE: 709 - OH0851

ESTIMATE SUBJECT TO REVISION AFTER: 5/6/2012 CITY: Rushsylvania COUNTY: Logan DESCRIPTION: Install Warning System- TR 110 (Kennedy Road)	DOT NO.: 51830 STATE: OH	85S
DIVISION: Great Lakes SUB-DIV: Mount Victory AGENCY PROJECT NUMBER: PID 90636	MILE POST: QI-13	80.29
PRELIMINARY ENGINEERING:		
200 Labor (Non Contract)	\$	_
200 Additive 31.34%	\$	-
230 Expenses	\$	-
212 Contracted & Administrative Engineering Services	\$	4,200
Subtotal	\$	4,200
CONCERNATION ENGINEERING MARKETON		
CONSTRUCTION ENGINEERING/INSPECTION:	•	•
200 Labor (Non Contract) 200 Additive 31.34%	\$ <b>\$</b>	-
230 Expenses	\$ \$	_
212 Contracted & Administrative Engineering Services	\$ \$	3,700
Subtotal	\$	3,700
	•	-,
FLAGGING SERVICE: (Contract Labor)		
070 Labor (Conductor-Flagman)	\$	-
050 Labor (Foreman/Inspector)	\$	-
070 Additive 73.76% (Transportation Department)	\$ \$ \$	-
050 Additive 97.95% (Engineering Department)	\$	•
230 Per Diem (Engineering Department)	\$	-
230 Expenses	\$	-
Subtotal	\$	•
SIGNAL & COMMUNICATIONS WORK: (Details Attached)	\$	220,191
TRACK WORK: (Details Attached)	\$	_
	•	
ACCOUNTING & BILLING:	_	4
040 Labor	\$	2,900
040 Additive 63.03%	\$	1,828
Subtotal	\$	4,728
PROJECT SUBTOTAL	\$	232,819
900 CONTINGENCIES: 10.00%	\$	23,282
GRAND TOTAL ************************************	\$	256,101
Agency 100.00%	<b>\$</b> ·	256,101
Railroad	\$	200,101
TOTAL ************************************	*******	256,101
NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Rail	Iroad Forces	

NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the data prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects-Jacksonville, Florida

Estimated prepared by:

Deb Baldino REVISED: Approved by: DATE:

CSXT Public Project Group

Form Revised 03-02-2010-LLS

DATE: 11/8/2011

Project Summary Sheet

## CSX TRANSPORTATION, INC. FORCE ACCOUNT ESTIMATE

ACCT. CODE: 709 - OH0851 Pub EB - OH EB3 (OH)

	ESTIMATE SUBJECT TO REVISION AF CITY: Rushsylvania DESCRIPTION: Install Warning	DOT NO.: 518365S STATE: OH			
	DIVISION: Great Lakes DRAWING NO.; Q113029.H01 AGENCY PROJECT NUMBER: F	SUB-DIV: Mount Victor DRAWING DATE: PID 90636	•	MILEPOST	: QI-130.29
200 200 230 212	PRELIMINARY ENGINEERING: Labor (Non Contract) Additive 31.34% Expenses Contracted & Administrative Engineering Subtotal	<u>Q</u> Services	Days @	<u>\$ 270.00</u>	\$ - \$ - \$ - \$ 4,200 \$ 4,200
200 200 230 212	CONSTRUCTION ENGINEERING/INSPECTATION (Non Contract) Additive 31.34% Expenses Contracted & Administrative Engineering Subtotal	0	Days @	\$ 270.00	\$ - \$ - \$ - \$ 3,700 \$ 3,700
70 50 70 50 230 230	Additive 97.95% (	(Transportation Department) (Engineering Department) (Department)	Days @ Days @ Days @ Days @	\$ 350.00 \$ 336.00 \$ 75.00 \$ 45.00	\$ - \$ - \$ - \$ - \$ - \$ -
	COMMUNICATIONS WORK: Temporary (Details Attached) Permanent (Details Attached) Subtotal				\$ - \$ - \$ -
50 50 50 50 50 50 50 50 50 50 50 50	TRACK: LABOR Traffic Control Remove Existing Crossing Renew Cross Ties Renew Rail Install OTM Install Field Welds Install Geo-Textile Fabric Install Sub-Drains Install Ballast Line and Surface Install Crossing Materials Install Bituminous Pavement	- - - - - - - - - - - - - - - - - - -	MAN-HRS MAN-HRS MAN-HRS MAN-HRS	\$ 24.00 \$ 24.00	**********

### CSX TRANSPORTATION, INC. FORCE ACCOUNT ESTIMATE

ACCT. CODE: 709 - OH0851 Pub EB - OH E83 (OH)

			Pub EB -	OH	Ī	EB3 (OH)				_
50	Clean-Up	<del></del>			0 1	AAN-HRS	\$	24.00	\$	-
50	Additive	97.95%			_		_		\$	-
230	Per Diem				<u>0</u> M	AN-DAY	\$	90.00		-
		Subtotal						••	<u>\$</u> \$	-
	TRACK: MATERIAL									
220	Cross Ties, Main Line				<u>0</u>	EA	\$	39.00	\$	-
220	Cross tie - pre-plated		•		<u>0</u>	EA	\$	83.50	\$	
220	Cross-tie - Borate				0	EA	\$	56.00	\$	-
220	Crossties, 10' Length				0	EA	\$	46.00	\$	-
220	Tie plates				0	EA	\$	10.51	\$	
220	Rail, 136RE, New				Ō	LF	\$	21.00	\$	-
220	Misc. OTM				1	LOT	<u>\$</u>		\$	-
210	Geo-Textile Fabric				Ō	RL	\$	930.00	\$	-
210	Sub-Drains				0	LF	\$	6.00	\$	-
220	Ballast - Car load			,	ň	NT	\$	12.00	\$ •	•
220	Ballast - Trucked in				<u> </u>	NT EA	\$	45.00	\$	-
220	Field Welds				Ā	EA	\$	100.00	\$ \$	-
	<del></del>	<del></del>			0		\$	<del></del>	Φ •	-
240	Concrete Full Width	_			<u>0</u>	TF	\$	250.00	₽ œ	
210 210	Concrete/Rubber Xing (C	·64/			ν Λ	Ϋ́F	<u>\$</u> \$	200.00	<b>4</b>	_
210	Rubber Crossing, Full De				<u>0</u> Q	TF	\$	325.00	φ	_
210	Timber/Asphalt Crossing				<u>0</u>	Ϋ́F	\$	42.00	\$	_
210	Bituminous Material	(COX Statisard)	•		<u>0</u>	NT	Ψ	72.00	\$	_
210	Sales Tax on Material		0.00%		2	141			\$.	_
210	Material Handling		5.00%						\$	
	iviatorial ritationing	Subtotal	0.2070						\$	
		Justomi							•	
	CONTRACT:									
215	Asphalt Paving (In Place)	•			<u>o</u>	NT			\$	_
241	Disposal of Waste Mater				<u> </u>	TF	\$	15.00	\$	
215	Maintenance of Traffic				0	DAY	\$	350.00	\$_	
		Subtotai							\$	
										•
241	EQUIPMENT RENTAL:									
		Subtotal							\$	-
	•	•								
			•							
50	<u>WORK TRAIN:</u>				<u>0</u>	DAY	\$	2,100.00	<u>\$</u>	
		Subtotal							\$	-
	<u>SALVAGE:</u>									
228	Rail				Q	NT	\$	65.00	\$	-
228	OTM				Q	NT	\$	75.00	\$	
		Subtotal				•			\$	-
	OIGNAL WORK.									
040	SIGNAL WORK:					,			*	77.000
210	Material - Field & Consur	iadies								77,260
210 220	Material - Sales Tax		•					•	<b>.</b>	-
60	Materiai - Shop Construction Labor	(110 man days)			•				₽ œ	- 34,919
65	Shop Labor	(116 man-days)							¢.	34,919 1,260
230	Per Diem	(6 man-days) (116 man-days)							¢.	15,080
200	RR Engineering, Prelimin								φ \$	4,678
200	RR Engineering, Constru								\$	5,238
-40		F11							•	-,

Page 3 of 3

### CSX TRANSPORTATION, INC. FORCE ACCOUNT ESTIMATE

ACCT. CODE: 709 - OH0851
Pub EB - OH EB3 (OH)

				Lab ED -	Un	ED3 (UH)		_	
60	Additives to Construction	Labor		1		,		\$	32,443
65	Additives to Shop Labor							\$	1,117
200	Additives to Engineering							\$	3,107
241	Equipment Expense	(25 work days)						\$	16,250
241	Waste Management	(25 work days)						\$	300
212	Contract Engineering			•				\$	21,540
211	Freight		•					\$	4,500
216	AC Power Service				•			\$	2,500
228	Salvage							\$	(1)
900	Other					•		\$	<u>-</u>
		Subtotal						\$	220,191
	ACCOUNTING & BILLIN	IG:							
40	Labor				14.5	Days @	\$ 200.00	\$	2,900
40	Additive	63.03%						\$	1,828
		Subtotal						\$	4,728
	PROJECT SUBTOTAL:							\$	232,819
900	CONTINGENCIES:		10.00%					\$	23,282
		GRAN	D TOTAL	*******	*******	*****	********	\$	256,101
	DIVIDION OF COST.							•	•
	DIVISION OF COST:								
		Agency	100.00%				•	\$	256,101
		Railroad	0.00%					\$	-
		•	TOTAL	******	*******	*****	******	\$	256,101

#### NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.

This estimate has been prepared based on site conditions, anticipated work duretion periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimated prepared by:

Deb Baldino

Approved by:

**CSXT Public Project Group** 

DATE: 11/8/2011

REVISED:

DATE:

Form Revised 05-05-2011-LLS

ACCT. CODE: 709 - OH0851

Pub EB -

Grand Total

OH

**EB3 (OH)** 

\$256,101

**ESTIMATE SUBJECT TO REVISION AFTER:** 

5/6/12

**DOT NO.:** 518365S

**COUNTY:** Logan STATE: OH

**DESCRIPTION:** Install Warning System- TR 110 (Kennedy Road)

**DIVISION:** Great Lakes

CITY: Rushsylvania

**SUB-DIV:** Mount Victory

**MILEPOST: Q1-130.29** 

**DRAWING NO.:** Q113029.H01

PID ! AGENCY PROJECT NUMBER:

**DRAWING DATE: 10/15/2011** 

Amount		
Task	Task Desc	Total
40	Labor General Office	<b>\$4,728</b>
	Labor Roadway	
	Labor Signal	\$67,362
65	Labor Signal1	\$2,377
70	Labor Transportation	
200	Labor NonContract	\$13,023
210	Invoice Material	
	Material - Field & Consu	\$77,260
211	Invoice Freight	\$4,500
212	Invoice Contract Eng	\$29,440
215	Invoice Misc	
216	Invoice Utilities	\$2,500
220	Material New	
	Material - Shop	
228	Scrap Credit	-\$1
230	ExpenseRpts	\$15,080
	Invoice Rental	\$16,550
900	Other	
900	Contingencies	\$23,282
	Material New	

## Estimate No. 119355 **CSX Transportation**

# TR 110 (Kennedy Rd.)- Install FLS&G. Rushsylvania, OH

DOT: 518365S

OP: OH0851

CSX Project: OH2011073

### **Summary**

Material Sales Tax	\$ 77,260 \$ 0
Labor: Construction Labor (116 man-days) Shop Labor (6 man-days) Subsistence (116 man-days)	\$ 34,919 \$ 1,260 \$ 15,080
Railroad Engineering, Preliminary	\$ 4,678 \$ 5,238
Additives to Construction Labor	\$ 32,443 \$ 1,117 \$ 0 \$ 3,108
Equipment Expenses (25 work days)	\$ 16,250
Waste Management (25 work days)	\$ 300
Contract Engineering	\$ 21,540
Freight	\$ 4,500
Poleline Removal	\$0
AC Power Service	\$ 2,500
Salvage	<b>\$</b> *-1
TOTAL ESTIMATE COST	\$ 220,191

Date: 11/07/2011

Estimated By: John Morrison

NOTE: This estimate should be considered void one year from date of estimate.

# Shop Material List for CSX Project: OH2011073 (Effective: 11/07/2011) Install FLS&G w/GCP-3000D2 Rushsylvania, OH - QI 130.29

:	Catalog Num	Cond	Unit Price	Qty	Cost Description
	020-0003386	1	6781.00	1	6781.00 HOUSE 6X6L ALUM INCLUDES 5 SHELFS, FARADAY CLOSET, 240V
	020-0017120	1	11.52	6	69.12 BLOCK TERMINAL 12 POST SINGLE STRIP AAR 14.1.6 WITH 1 AAR
	020-0017125	1	3.54	6	21.24 BLOCK TERMINAL 2 POST AAR 14.1.8 WITH 1 AAR 14.1.11
	020-0017211	1	627.20	1	627.20 TRANSFORMER LIGHT 750VA 010520-50X MODEL SLT-50
	020-0017385	1	59.27	1	59.27 CABLE RJ45 TO RJ4 15' GETS P/N 075061-015
	020-0021965	1	8.96	1	8.96 EXTRACTOR DWG 59688-4 TERMINAL GRS CAT P3-308 REF
	020-0022651	1	55.89	7	391.23 PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
	020-0022701	1	68.00	33	2244.00 ARRESTER LPC 15012-1 0-30V DC OR 0-24V AC RATED AT 15 AMP
	020-0025595	1	20.72	1	20.72 WRENCH DWG 55393-3 GR1 "E" TERMINAL POST NUT GRS CAT
	020-0053360	1	406.56	3	1219.68 CHARGER BATTERY ELC 12/20 S 20 AMP 10-19.9 VDC ROTARY SW
	020-0053510	1	.233.11	1	233:11 KIT 240V AC EMERGENCY GENERATOR CABLE AND
	020-0055608	.1	17.88	1	17.88 RELAY POTTER BRUMFIELD KRP11AG12 OR STRUTHERS-DUNN
	020-0056515	1	3.07	1	3.07 SOCKET RELAY 8 PIN OCTAL FOR NON VITAL RELAY CSX SS705 REF
	020-0064060	1	16.12	1	16.12 PLATE RELAY MOUNTING FOR 2 EACH TYPE KHAU OR OCTAL RELAY
	020-0660077	1	597.41	1	597.41 ARRESTER GE 9L10KAC213 FOR 240 VOLT SINGLE PHASE 3 WIRE
	020-0750090	1	0.09	3	0.27 NUT INSULATED USE ON AAR BINDING POST TERMINAL FOR
	020-0770060	1	13.44	12	161.28 ARRESTER US&S N451552-0201 TRACK SERIES RED LABEL USGA
	020-0770105	1	22.40	4	89.60 ARRESTER HARMON 202217-000 AGE-1 TRACK AIR GAP EQUALIZER
	020-1940055	1	14.22	1	14.22 CONTAINER CIRCUIT PRINT 24" SCHEDULE 20 4" PVC PIPE WITH
	020-2501400	1	1043.84	1	1043.84 CONTROLLER DTMF RADIO KEY DOWN MODE 6 SET TIMER TO 60
	020-2550075	1	12002.90	1	12002.90 PREDICTOR SAFETRAN GCP-3000D2 REDUNDANT TWO TRK SYS W/CASE
	020-3430110	1	321.84	3	965.52 RELAY SAFETRAN 400004 500 OHMS CONTACTS 4FB-2F-1B CSX
	020-3430115	1	421.20	1	421.20 RELAY SAFETRAN 400005 500 OHMS CONTACTS 4FB HEAVY DUTY
	020-3430135	1	513.30	1	513.30 RELAY SAFETRAN 400213 460 OHMS CONTACTS 2FB CSX
	020-3430170	1	413.95	1	413.95 RELAY SAFETRAN 400800-CSX 100/100 OHMS CONTACTS 6FB

Estimate ID: 119355

106-TR 110, Emmedy Rd - CSX DOT ATR NO. 518 365 5

