



City Hall, 215 Sycamore St.  
Muscatine, IA 52761-3840  
(563) 262-4141  
Fax (563) 262-4142

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COMMUNITY DEVELOPMENT

Planning,  
Zoning,  
Building Safety,  
Construction Inspection Services,  
Public Health,  
Housing Inspections,  
Code Enforcement

**Date:** April 17, 2017  
**To:** Mayor and City Council  
**From:** Dave Gobin, Community Development Director  
**Cc:** Gregg Mandsager, City Administrator  
**Re:** Request to Approve Canadian Pacific Signal Agreements

**INTRODUCTION:** On November 23, 2016, the City Council approved a Preliminary Engineering & Signal Design Agreement (PSA) with Canadian Pacific. The PSA is now complete and based on the work, the railroad has prepared a follow-on agreement to order the safety equipment, including new signals and upgrade to a constant warning system.

**BACKGROUND:** During the latter part of 2016, the City entered into a Funding Agreement with the Howe Foundation to fund up to \$1 million dollars for this Quiet Zone project. The accumulative cost for these Agreements is \$734,000. While the other crossings are included in the Mississippi Drive contract and specifications, we will still have additional engineering and construction expenses for the Hershey Lift Station and Mad Creek pedestrian crossings.

Attached is a copy of the draft Agreements with Canadian Pacific railroad. We may have some minor edits before finalizing.

**RECOMMENDATION:** Staff is requesting Council approve that the City to enter into these Agreements with Canadian Pacific, in its final form, and as funded by the Howe Foundation.

## AGREEMENT

THIS AGREEMENT made and entered into by and between CITY of Muscatine, a Governmental Subdivision of the State of Iowa, hereinafter referred to as the "CITY" and DAKOTA MINNESOTA AND EASTERN RAILROAD COMPANY, doing business as CANADIAN PACIFIC, hereinafter referred to as the "COMPANY."

### Contracting Parties

City Contact Person  
Gregg Mandsager, ICMA-CM  
City Administrator  
City of Muscatine  
215 Sycamore Street  
Muscatine, IA 52761  
563-264-1550 Work  
563-264-0750 Fax  
[gmandsager@muscatineiowa.gov](mailto:gmandsager@muscatineiowa.gov)

Company Contact Person  
Jim H. Krieger  
Manager Public Works - US South Region  
Canadian Pacific Plaza  
120 South 6th Street., Suite 900  
Minneapolis, MN 55402  
612-330-4555  
[Jim.Krieger@cpr.ca](mailto:Jim.Krieger@cpr.ca)

### WITNESSETH

WHEREAS, Cedar Street with DOT #607204S as presently located in CITY of Muscatine, Muscatine County, Iowa, crosses at grade main line track of the COMPANY at railroad mile post 219.30 on the Ottumwa Subdivision, US East Region; and

WHEREAS, the CITY proposes to replace existing railroad warning devices substantially as shown on the plan attached hereto and marked Exhibit "A" (the "Project"); and

WHEREAS, The CITY and COMPANY desire that said grade crossing be provided, with the participation of CITY funds, with four quadrant flashing lights with gates, constant warning circuitry and LED lenses, and the COMPANY is willing to install, maintain and operate such signals upon the terms and conditions hereinafter stated; and

The CITY agrees to secure funds for the cost of this safety improvement project. The CITY's sole purpose under this agreement is to administer the funding. The CITY agrees to furnish a lump sum deposit in the amount of \$371,000. Any amount above the deposit amount will be approved by the CITY and billed to the CITY accordingly. It is specifically understood and agreed that the COMPANY shall have no obligation to perform any individual Project until such time as the agreement is fully executed by all parties identified.

### Preliminary Engineering

Preliminary Engineering to the COMPANY's engineering standards was authorized by separate PE Agreement for the lump sum of \$5,000 funding by letter from CITY prior to execution of this agreement. Preliminary Engineering includes production of site plans, cost estimates and circuit

plans prepared by the COMPANY or its contractor/consultant for this Agreement. The site plan portion of the circuit plan (front sheet) and the cost estimate labeled as EXHIBIT "B" shall be attached and by this reference incorporated into this Agreement.

WHEREAS, the parties desire to set forth the terms and conditions for the safety improvements, and

NOW, THEREFORE, in consideration of the premises and of the mutual covenants and agreements contained herein, the parties agree as follows:

The "Standard Provisions for Highway-Railroad Agreements" attached hereto as Exhibit "C" are hereby made a part of this Agreement.

The COMPANY OR CITY owns all right of way needed to operate the proposed improvement.

The COMPANY shall furnish, or cause to be furnished, all of the labor, materials and work equipment required to install a complete railroad crossing signal system with four quadrant flashing light, gates, constant warning timing circuitry and LED lenses on Cedar Street at the location indicated on Exhibit "A".

The estimated total cost of the work to be performed hereunder by the COMPANY at the expense of the CITY as outlined above is \$371,000 plus the actual cost as indicated in the detailed estimate of cost attached hereto and marked Exhibit "D".

The Project will be funded using CITY funds. The CITY will pay the COMPANY as provided herein for only such items and expense as are proper and eligible for payment. Only materials actually incorporated into the project will be eligible for reimbursement.

#### COMPANY RESPONSIBILITY

The COMPANY or its contractor/consultant shall provide all engineering, materials, and labor to construct the Project. The Project shall be constructed in a good workmanlike manner in accordance with COMPANY standards, and with Part 8 of the Manual on Uniform Traffic Control Devices for Streets and Highways (23 CFR 655F). The COMPANY or its contractor/consultant shall not be reimbursed for any work outside the scope of the Project without prior written approval by the CITY.

The COMPANY warrants that it shall perform all work under this agreement in a workman like and timely manner in accordance with all applicable standards for work of the type at issue. Should the work fail to be performed in a timely manner or in accordance with applicable standards, the CITY may immediately suspend further payments under this agreement and the COMPANY shall repay all funds expended on unsatisfactory work.

The COMPANY shall operate and maintain the crossing warning devices in accordance with Federal or State law as it shall be from time to time in the future while it operates its line of

Railroad. The signal system is the property of the CITY and must not be removed unless there has been a determination by the CITY that the signal system is no longer required at this location. If the signal system is removed, the Company must notify the CITY of its pending removal. The CITY will have the final determination over the disposition of the equipment.

The COMPANY will coordinate with the CITY for traffic control and road detours if needed. The traffic control shall be in accordance with the Iowa DOT construction standards.

## CITY RESPONSIBILITIES

The CITY shall insure that all pavement markings are properly painted and advanced warning signs are in place and maintained as required by Part 8 of the Manual on Uniform Traffic Control Devices for Streets and Highways. The CITY shall also insure clear motorist view from the roadway lanes of the flashing lights at the crossing. The CITY shall maintain this clear view as long as the signals remain at the crossing.

## Notification Requirements

The COMPANY shall notify the CITY's contact person no later than 14 days prior to the start of the Project at the crossing. The COMPANY shall also notify the CITY's contact person when the work at the Project location is completed. The contact persons are shown on page 1 of the Agreement.

## Work State and Completion

The COMPANY or its contractor/consultant shall begin construction of the Project as soon as possible after the CITY gives written authorization to proceed, and shall complete the Project within twelve (12) months of written authorization to proceed. The Project shall be considered complete when the COMPANY physically completes the work and the Project has been approved by the CITY.

## Project Inspection and Completion

The CITY shall have the right to inspect the Project work at any time. The CITY will arrange an inspection with the COMPANY so it can determine whether the Project complies with the terms of the Agreement and whether the installation is consistent with the material list supplied by the COMPANY.

## Reimbursement Guidelines

The CITY agrees to furnish lump sum deposit in the amount of \$371,000. Any amount above deposit amount will be approved by the CITY and billed to the CITY accordingly.

## Successors In Interest/ Governing Law

This Agreement shall be binding upon the parties hereto, their successors or assigns. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Iowa.

Execution Clause

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed in duplicate counterparts, each of which shall be considered as an original, by their duly authorized officers, as of the dates below indicated.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be duly executed.

ACCEPTED: \_\_\_\_\_, 2017      APPROVED: \_\_\_\_\_, 2017

City of Muscatine, Iowa

Dakota, Minnesota and Eastern Railroad

By: \_

By:

Attest: \_\_\_\_\_

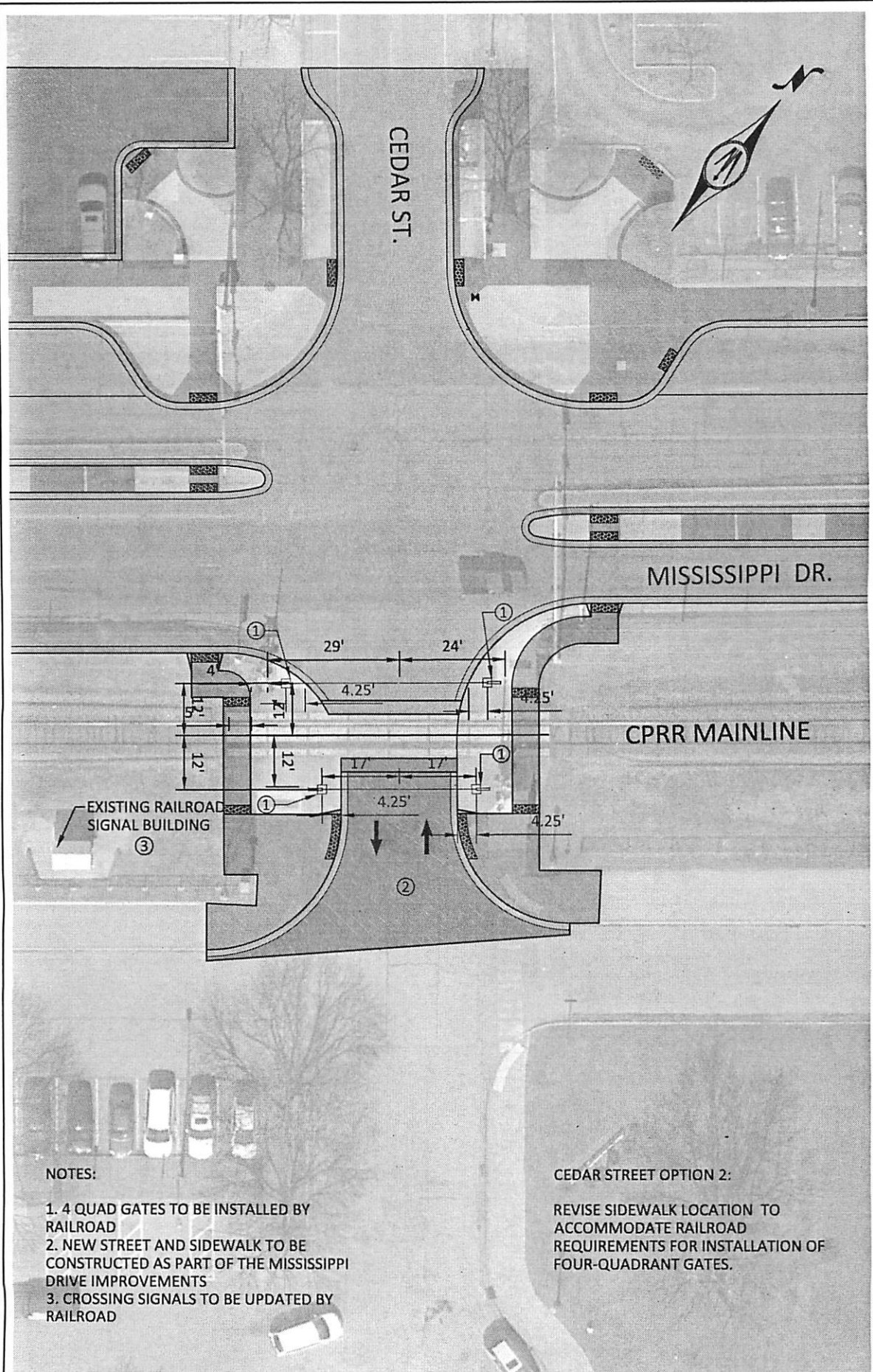
Attest: \_\_\_\_\_

Date: \_\_\_\_\_, 2017

Date: \_\_\_\_\_, 2017 \_\_\_\_\_

\_\_\_\_\_

**Exhibit A**  
**CITY Plan Drawing**



#### NOTES:

1. 4 QUAD GATES TO BE INSTALLED BY RAILROAD
2. NEW STREET AND SIDEWALK TO BE CONSTRUCTED AS PART OF THE MISSISSIPPI DRIVE IMPROVEMENTS
3. CROSSING SIGNALS TO BE UPDATED BY RAILROAD

#### CEDAR STREET OPTION 2:

REVISE SIDEWALK LOCATION TO ACCOMMODATE RAILROAD REQUIREMENTS FOR INSTALLATION OF FOUR-QUADRANT GATES.

HORIZ. SCALE  
0 10 20  
FEET



309 E 5TH STREET, SUITE 202  
DES MOINES, IOWA 50309  
Phone: (515) 259-9190  
Email: DesMoines@bolton-menk.com  
www.bolton-menk.com

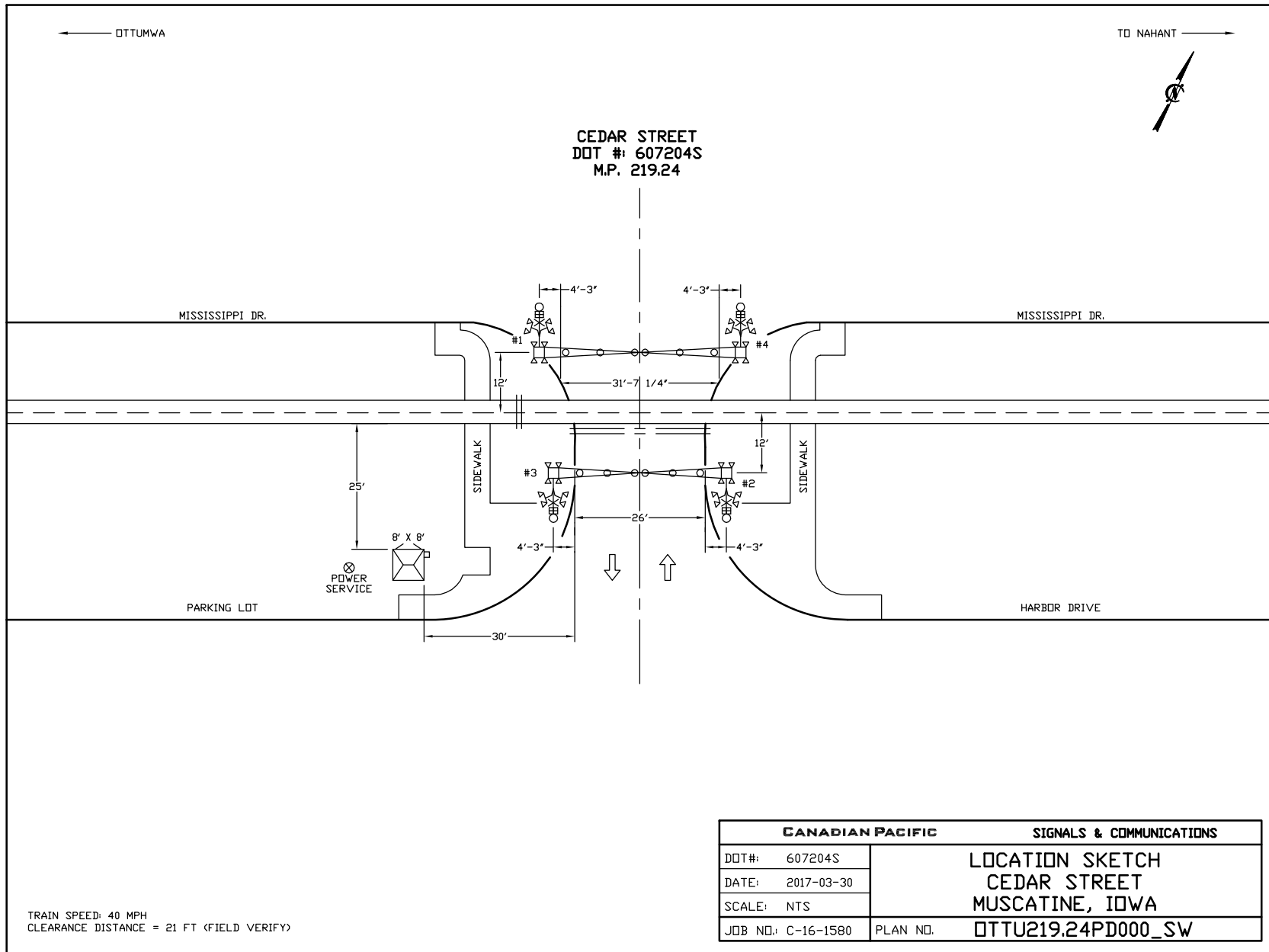
CITY OF MUSCATINE, IOWA  
QUIET ZONE INVESTIGATION  
CEDAR STREET CROSSING OPTION 2

DECEMBER 2016

ATTACHMENT F-3

**Exhibit B**  
**Signal Plan**





**Exhibit C**  
**Standard Provisions for Highway-Railroad Agreements**  
**(Non-Federal Aid Projects)**

**Exhibit D**  
**Cost Estimate**



## Rail Signal Systems Corporation

## Transmittal

DATE: MARCH 28, 2017

2425 Great Southwest Parkway, Fort Worth, TX 76106

Phone 817.595.3503 Fax 817.595.3594

TO Canadian Pacific Railway

Jim Krieger Ed

Harwick Greg

Zielke Perry

Louwagie Garry

Rosin Cory

Wogrinc Cindy

Ingram

Andrew Krivanek

FROM John Cummings

john.cummings@railsignalsystems.com

PROJECT NO.	SUBJECT	TRANSMITTAL NO.
C-16-1580	Estimate Cedar Street, Muscatine, IA	CPR-1580-T1

DESCRIPTION	INFORMATION
Project Information	<p>~~~~~</p> <p>CROSSING: Cedar Street NUMBER OF TRACKS: 1 SUBDIVISION: Ottumwa MILE POST: 219.24 FRA/AAR DOT No: 607204S COUNTY: Muscatine TOWN/CITY: Muscatine STATE: Iowa IA-DOT Project ID: n/a PROJECT AUTHORIZATION DATE: Request for Estimate ONLY. PROJECT COMPLETION DATE: Per scheduling &amp; agreement execution in 2017. FUNDING: 100% to City of Muscatine PROJECT CONTACT: Jim Harbaugh / Bolton-Menk Consultant 515-259-9190 ext. 2912 cell 515-664-5333 e-mail <a href="mailto:jimha@bolton-menk.com">jimha@bolton-menk.com</a></p> <p><b>PROJECT:</b> New signal system for four (4) quadrant flash light signals and gates, side lights, LED's, CWT, bungalow, etc.</p> <p>Please contact Customer Service at 817.595.3503 with any questions or comments.</p>

Thank you

# CANADIAN PACIFIC RAILWAY

Cedar Street - Muscatine, IA (Muscatine County)

DOT 607204S M.P. 219.24 (Ottumwa Subdivision) Latitude: 41.4215157 Longitude: -91.0425829

RSS Project No. C-16-1580 City Project ID: (City of Muscatine Funding 100% - Installation 2017)

03/28/2017 - Rev. 2.0 (Estimate valid for 1 year)

LINE	PART NUMBER	HOUSE MATERIAL	QTY.	UNIT	TOTAL
1	062500-88-3	HOUSE, ALUM, PTMW 8' X 8'	1	\$12,337.03	\$12,337.03
2	300752-000	XP4 9-Slot Chassis,	1	\$3,075.64	\$3,075.64
3	4000712	ELIXS XP4, VPM-3 XING EXEC MODULE	1	\$2,226.29	\$2,226.29
4	251456-000	XP4 Central Power Supply, CPS-3	1	\$620.11	\$620.11
5	251495-000	XP4 UCI-3, EEPROM for XP4	1	\$507.74	\$507.74
6	251346-000	XP4 Normal-Standby Module NSM-1	1	\$913.86	\$913.86
7	251124-000	XP4 Control Display Unit, CDU-1	1	\$402.76	\$402.76
8	251333-000	XP4 Ground Fault Detector, GFD-1	1	\$649.18	\$649.18
9	251380-000	XP4 Vital I/O Module, 8 In/6 Out, VI0-86S	3	\$2,424.24	\$7,272.72
10	227537-000	XP4 VI0-86S Personality Module	3	\$463.63	\$1,390.88
11	251336-000	XP4 Crossing Track Interface Module,XTI-1S	2	\$3,577.23	\$7,154.47
12	227481-000	XP4 XTI-1S Personality Module, Normal/Standby	1	\$438.88	\$438.88
13	251384-000	XP4 Integrated Crossing Controller Module, IXC-20S	2	\$2,443.48	\$4,886.95
14	227546-000	XP4 IXC-20S Personality Module	2	\$442.93	\$885.86
15	003662-000	Blank EEPROM	1	\$16.59	\$16.59
16	100323-010	ElectrologIXS XP4, Field Reference Manual	1	\$0.00	\$0.00
17	251495-000	XP4 Chassis Information Module,XCI-2, Flash Memory	1	\$483.81	\$483.81
18	NYK:038403-49	PANEL.,MDSA-1XS, PANEL, 1 TRACK	1	\$455.47	\$455.47
19	250675-100	ELIXS XP4, MDSA-2XS Panel, 2 Track	0	\$795.85	\$0.00
20	NYK:8000802710001	SEAR II, ILOD	2	\$680.09	\$1,360.17
21	NYK:150321-2	CHARGER, 12V, 40AMP, 120/230	2	\$1,086.75	\$2,173.50
22	NYK:151236-T09992	TRANSFORMER, 120/24 VAC, TYPE	1	\$84.39	\$84.39
23	NYK:400044883152X1	ASSEMBLY SURGE PANEL VERTICAL	6	\$209.74	\$1,258.43
24	NYK:400044883127X1	ASSEMBLY SURGE PANEL VERTICAL	9	\$625.64	\$5,630.78
25	US2:400004	RELAY, TYPE "ST" NEUTRAL	3	\$808.29	\$2,424.87
26	NYK:420000-75X	KIT, RELAY SKT, VOLT TEST	3	\$69.04	\$207.11
27	NYK:057883-1X	RLY,SWINGRACK,ST1,1ROW,8POS	1	\$1,416.40	\$1,416.40
28	NYK:053222-T04010	RLY,KUP,SKT-MTG,12VDC	2	\$15.39	\$30.79
29	NYK:054222-T09996	RLY,SKT,KUP,3P,15A,240VAC	2	\$9.24	\$18.48
30	NYK:053222-T09795	CLIP, HOLD DOWN RELAY, P&B 20C	4	\$0.56	\$2.23
31	NYK:310152-T00391	FUSE, 5A FRN-5	1	\$6.70	\$6.70
32	NYK:T13212	FUSE,10 AMP,250 VOLT,FRN-R-10,	2	\$6.65	\$13.29
33	NYK:027614-1X	FUSE BLOK, 2P, 14UNS, BKLTE	3	\$79.49	\$238.46
34	NYK:023612-1X	BLOCK, TERMINAL2-3/8" CENTER,	28	\$18.24	\$510.68
35	NYK:023274-501X	BLOCK, TERMINAL 12	5	\$31.98	\$159.92
36	NYK:409152-T09455	CONNECTOR, 1/2" STRAIGHT SQUEE	3	\$2.79	\$8.38
37	NYK:023408-1X	NUT, INSULATED	30	\$7.84	\$235.31
38	TBD	ARRESTER. EPD2050F, EQUIPMENT PANEL	42	\$54.63	\$2,294.52
38	TBD	ARRESTER. EPD2050F, FARRADAY PANEL	56	\$54.63	\$3,059.36
39	NYK:40004480707AX	AC LINE PROTECTORS SP20-3A	2	\$135.20	\$270.40
40	NYK:099056-T01538	WIRE, #16 OKONITE T.C.BLUE	1600	\$0.20	\$319.20
41	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	1200	\$0.30	\$365.40
42	NYK:099152-T08707	WIRE,10AWG,600V,GRN,THHN-THWN	200	\$0.28	\$56.70
43	NYK:099152-T06958	WIRE,6AWG,600V,GRN,THHN-THWN	30	\$0.76	\$22.68
44	NYK:022316-73	WIRE, #16 26 STRAND GREEN	20	\$0.11	\$2.10
45	NYK:099152-T00101	WIRE, #14 SOLID GREEN INSULAT	10	\$0.13	\$1.26
46	NYK:021624-3	BONDSTRAND, INSULATION 3/32"	250	\$1.26	\$315.00
47	NYK:T15514	CABLE, 2 CONDUCTOR 18 AWG	18	\$0.66	\$11.91
48	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	150	\$0.27	\$40.95
49	NYK:091769-T10546	TERMINAL, RING AMP #35349, WIR	75	\$0.69	\$51.98
50	NYK:024628-138	TERMINAL, RING, 1/4 POST, #6	20	\$1.82	\$36.33
51	NYK:170123-31	END LUG KIT FOR SPL	2	\$40.46	\$80.91
52	NYK:409152-T09456	CONDUIT, 1/2" FLEX, METAL	34	\$0.56	\$18.92
53	NYK:092307-306X	BOX, TEST W/(1) DPDT LEVER SWI	1	\$839.84	\$839.84

54	NYK:T12975	CONNECTOR,FLEX CONDUIT,1/2" 90	8	\$2.16	\$17.30
55	NYK:Z4150020R0001	RES MTL FLM FIXED	2	\$0.12	\$0.23
56	NYK:023408-6X	CAP, INS SHIELD, 1 SLOT 0.50	11	\$16.40	\$180.41
57	NYK:007470-1B	BREAKER SGL 15A	2	\$8.51	\$17.01
58	NYK:007470-1C	BREAKER 2-POLE, 15A	2	\$20.81	\$41.62
59	NYK:8000800780001	NETWORK TERMINATON UNIT 80078	2	\$129.41	\$258.83
60	NYK:007417	3/4" 1 HOLE EMT STRAP	10	\$0.13	\$1.26
61	NYK:098152-T00255	WIREDUCT,2INX2INX6FT,GRAY,E2X2LG6	12	\$3.14	\$37.67
62	NYK:098152-T00256	PANDUIT E2X3LG6 TAYLOR #92030	30	\$1.96	\$58.91
63	NYK:018-06-005	COVER, 2" DUCT	42	\$0.91	\$38.37
64	NYK:018-06-021	WIREDUCT,COVER,1INX6FT,GRAY,C1LG6	12	\$0.39	\$4.66
65	NYK:018-06-020	WIREDUCT,1INX3INX6FT,GRAY,G1X3LG6	12	\$2.36	\$28.35
66	NYK:098152-T00305	PANDUIT E3X3LG6	18	\$4.54	\$81.65
67	NYK:098152-T00251	COVER,PANDUIT #C3LG6 3"X 6' L	18	\$1.27	\$22.87
68	NYK:023590-2X	GND, BOLT, ASM, 5/16-18	2	\$6.89	\$13.78
69	NYK:T18510	LIGHT, POWER OFF, GEMS	1	\$163.62	\$163.62
70	NYK:007200-CHQRFQ	ENCLOSURE, HOFFMAN, 8X6X4, FIB	1	\$119.89	\$119.89
71	NYK:051894-284	PLATE, STEEL MOUNTING	1	\$7.22	\$7.22
72	NYK:153518-224	CABLE, FOR CROSSING INTERFACE	2	\$120.06	\$240.11
73	NYK:153518-225	CABLE,FOR CROSSING INTERFACE	2	\$120.06	\$240.11
74	036117-CP-1	PANEL, JUMPER 1, ALUMINUM CP	2	\$10.27	\$20.54
75	NYK:051659-7	HOLDER, PLAN, WALL MOUNT	2	\$1.33	\$2.67
76	NYK:153518-412	KIT, WALL MOUNT FOR XIP-20B GE	2	\$85.71	\$171.42
77	NYK:007302-1	KNOCKOUT BUSHING, RIGID 3/4	2	\$0.24	\$0.48
78	NYK:007183	CON BUSHING 1/2	6	\$0.14	\$0.82
79	NYK:007152	LOCK NUT CONDUIT 3/4"	1	\$0.37	\$0.37
80	NYK:230072-T09988	NIPPLE, INSULATED CHASE, T&B #	1	\$2.96	\$2.96
81	NYK:170123-21	BATT, NI-CAD, SPL 250 AH 10	1	\$2,342.55	\$2,342.55
82	NYK:170123-22	BATT, NI-CAD, SPL 340 AH 10	0	\$3,320.63	\$0.00
83	YK:170123-25	BATT, NI-CAD, SPL 420 AH 10	1	\$4,304.74	\$4,304.74
84	NYK:036118-19	DECAL, PRE-EMPTION WARNING CP	1	\$6.52	\$6.52
85	7000-7A399-2140	XMTR RAIL CPLU UN	1	\$500.19	\$500.19
86	7000-7A471-0001	PSO 4000 TRANSMITTER ASSY	1	\$1,940.40	\$1,940.40
87	7000-7A471-2140	PSO 4000 RECEIVER ASSY	1	\$2,541.00	\$2,541.00
88	7000-7A471-2140	PSO TUNE RCVR COUPLER	1	\$704.36	\$704.36
89	051639-100	RACK, BATTERY 2 TIER, PTMW	2	\$113.51	\$227.01
90	T16624	PANEL, TSA-1A TRK.SURGE,FOR CP	0	\$106.26	\$0.00
91	T12852	EPC FINAL ASSY TD-1A	0	\$288.75	\$0.00
92	T12853	EPC FINAL ASSY ACG-2T, HARMON	0	\$184.75	\$0.00
93	029603-2X	RESISTOR, 5.0 OHM ADJ.PORCELAIN	0	\$53.29	\$0.00
94	T14005	RECTIFIER, RING-10,FOR CP RAIL	0	\$111.09	\$0.00
95				<b>SUBTOTAL</b>	<b>\$81,625.47</b>
LINE	PART NUMBER	GROUND MATERIAL	QTY.	UNIT	TOTAL
1	NYK:030399-16X	PADLOCK, HEXAGON OR SPANNER W/	6	\$37.10	\$222.58
2	NYK:231271-T09993	PADLOCK, STL, W/O CHN, COMB KEY AME	2	\$29.59	\$59.18
12	400999-T00027	WIRE, #6 SOLID SOFT DRAWN COPP	100	\$0.58	\$57.75
4	NYK:112152-T01991	ROD, GROUND 5/8" X 10'	14	\$23.30	\$326.19
5	NYK:112026-T01958	CONNECTION,1-SHOT CADWELD #SBN	14	\$9.47	\$132.59
6	NYK:021624-3	BONDSTRAND, INSULATION 3/32"	100	\$1.26	\$126.00
8	NYK:099044-T10004	CABLE, GP, 2C, 6AWG, TW PR, 600V	590	\$1.72	\$1,015.98
7	NYK:409244-T06526	CABLE, UG, 7C, 6AWG, SIGNAL, 600V	1250	\$6.01	\$7,507.50
7	NKY:099044-T1005	CABLE, UG, 10C, 14AWG, SIGNAL, 250V	1550	\$1.90	\$2,945.78
9	NYK:400999-T00185	SEALANT, PERMAGUM PLASTIC	3	\$7.25	\$21.74
10	NYK:021378-21X	CLAMP,INS. WIRE W/O	20	\$9.14	\$182.70
11	NYK:115026-T00550	WELD METAL, CADWELD NO. SB25	12	\$1.69	\$20.29
12	NYK:999026-T08742	CLIP, TRK. CIRCUIT RETAINER, 1	12	\$2.98	\$35.78
13	NYK:116152-T00151	SEALANT, DUCT, BLACKBURN DX-5S, 5LB	2	\$6.33	\$12.66
14	NYK:T17604	TUBING, HEAT SHRINK	4	\$35.88	\$143.51
15	NYK:116136-T10734	TAPE,ELEC,BLK,0.75INX66FT,600V,COLD-E	2	\$4.87	\$9.74
16	NYK:400999-T00154	HOSE, 2" DIA. X 18" LONG	4	\$3.62	\$14.49
17	NYK:350053-T11934	BROOM, HEAVY DUTY #1003308	1	\$16.31	\$16.31

18	NYK:409915-T09043	PADLOCK, STL, W/O CHN, PROG KEY MSTR	1	\$24.89	\$24.89
19	NYK:070981-X	WRENCH KIT, TORQUE	1	\$311.48	\$311.48
20	NYK:153518-211	CONNECTION, ONE SHOT, 2 WIRE	8	\$13.28	\$106.26
21	NYK:035005-2X	U-BOLT ASSY. 5" W/HDWR	4	\$18.72	\$74.89
22	NYK:330276-T09999	FOUNDATION, 1 PIECE, 48" TALL,	4	\$311.54	\$1,246.14
23	NYK:070692-9X	CONDUIT ASSY, 2.5" X 48" W/CON	4	\$499.80	\$1,999.20
24	NYK:330276-T10066	FOUNDATION, CONCRETE, 54" ONE, CANTILEVER	0	\$923.74	\$0.00
25	NYK:071500-FTMP	FOUNDATION TEMPLATE, CANTILIEVER	0	\$133.88	\$0.00
26	NYK:035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE, CANTILEVER	2	\$7.91	\$15.81
27	NYK:036117-5304	SIGN, CANADIAN PACIFIC ENS,	4	\$29.54	\$118.15
28	NYK:999379-CP	DECAL, HOUSE CP RAIL	2	\$16.91	\$33.81
29	021500-135	SHUNT, NBS-2, 156 HZ, GE	2	\$638.00	\$1,276.00
30	T14004	COUPLER, TUNED JT. 156HZ FOR CP RAIL	2	\$959.96	\$1,919.93
31	225238-001	JUNCTION BOX, TERMINATION - GE MODEL 385-A-3	2	\$172.43	\$344.86
32	035800-2X	FOUNDATION,BUNGALOW GALV. 48"	0	\$171.40	\$0.00
33	034037-11	LOAD, DUMMY, FSS LOAD 3000FT.	0	\$97.81	\$0.00
34	400510	RELAY, TYPE "ST" BIASED NEUTRAL	0	\$809.68	\$0.00
35	400510	GUARD RAIL, FULL CIRCLE	0	\$1,443.75	\$0.00
36	TBD	TRACK FILTER, 156HZ	0	\$1,101.98	\$0.00
37	409244-T06525	CABLE, U.G. 3C #2 SOLID COPPER	150	\$8.99	\$1,348.20
38				<b>SUBTOTAL</b>	<b>\$21,670.38</b>
LINE	PART NUMBER	PLATFORM MATERIALS	QTY.	UNIT	TOTAL
1	157A	FOUNDATION, CONCRETE DPS-2 5'7	4	\$652.05	\$2,608.20
2	3000373	PTMW PLATFORM W/STAIRS FOR BUNG. M	1	\$19,945.80	\$19,945.80
3				<b>TOTAL</b>	<b>\$22,554.00</b>
LINE	PART NUMBER	SIGNAL #1	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	GATE, S-60 W/ HARDWARE PKG.	1	\$3,623.03	\$3,623.03
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64
12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$17,557.07</b>
LINE	PART NUMBER	SIGNAL #2	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	GATE, S-60 W/ HARDWARE PKG.	1	\$3,623.03	\$3,623.03
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64

12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$17,557.07</b>
LINE	PART NUMBER	SIGNAL #3	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	EXIT GATE, S-60 W/ HARDWARE PKG.	1	\$6,717.06	\$6,717.06
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64
12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$20,651.11</b>
LINE	PART NUMBER	SIGNAL #4	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	EXIT GATE, S-60 W/ HARDWARE PKG.	1	\$6,717.06	\$6,717.06
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64
12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$20,651.11</b>
LINE	PART NUMBER	MATERIAL CONTAINERIZATION SUMMARY	UNIT	SUBTOTAL	TOTAL



1	MATERIAL	MATERIAL:	1	\$202,266.20	\$202,266.20
2	ENGINEERING	ENGINEERING SERVICES:	1	\$784.00	\$784.00
3	ENGINEERING	SHOP LABOR:	1	\$12,713.28	\$12,713.28
4	DEMURRAGE	DEMURRAGE:	240	\$11.00	\$2,640.00
5	CONTAINER	GATE CART RENTAL:	4	\$50.00	\$200.00
6	FREIGHT	CONTAINERS/FLATBED - ESTIMATE FREIGHT:	475	\$19.70	\$9,357.50
7	CONTAINER	CONTAINER USAGE:	2	\$355.00	\$710.00
8				<b>TOTAL</b>	<b>\$228,670.98</b>
<b>LINE</b>	<b>PART NUMBER</b>	<b>TRACK MATERIALS SUMMARY</b>	<b>QTY.</b>	<b>UNIT</b>	<b>TOTAL</b>
1	TRACK MATERIAL	INSULATED JOINTS, PER FIELD REQUEST	0	\$875.00	\$0.00
2	TRACK MATERIAL	WELDS, FIELD, FOR INSULATED JOINT	0	\$70.00	\$0.00
3	TRACK MATERIAL	PLATE, INSULATED GAUGE PLATE	0	\$1,575.00	\$0.00
4	TRACK MATERIAL	ROD, #1 INSULATED THROW	0	\$975.00	\$0.00
5	TRACK MATERIAL	ROD, #2 INSULATED	0	\$875.00	\$0.00
6				<b>TOTAL</b>	<b>\$0.00</b>
0	0	0	0	0	\$0.00
		<b>MATERIAL COST SUMMARY</b>		<b>GRAND TOTAL</b>	<b>\$202,266.20</b>
0	0	0	0	0	0
<b>LINE</b>	<b>DESCRIPTION</b>	<b>CANADIAN PACIFIC RAILWAY LABOR</b>	<b>QTY.</b>	<b>RATE</b>	<b>TOTAL</b>
1	CPR LABOR	Signal Gang, Foreman	150	\$34.67	\$5,200.47
2	CPR LABOR	Signal Gang, Foreman, Overtime	0	\$52.00	\$0.00
3	CPR LABOR	Signal Gang, Lead Signalman	150	\$30.82	\$4,622.64
4	CPR LABOR	Signal Gang, Assistant Foreman, Overtime	0	\$46.23	\$0.00
5	CPR LABOR	Signal Gang, Signalman	150	\$30.21	\$4,531.49
6	CPR LABOR	Signal Gang, Signalman, Overtime	0	\$45.31	\$0.00
7	CPR LABOR	Signal Gang, Assistant Signalman	300	\$27.62	\$8,287.38
8	CPR LABOR	Signal Gang, Assistant Signalman, Overtime	0	\$41.44	\$0.00
9	CPR LABOR	Project Manager	37.5	\$48.26	\$1,809.58
9	CPR LABOR	Signal Supervisor	37.5	\$42.12	\$1,579.38
10	CPR LABOR	Testing & Commisioning Technician I	40	\$34.67	\$1,386.79
11	CPR LABOR	Testing & Commisioning Technician II	40	\$34.67	\$1,386.79
12	CPR LABOR	Accounting/Billing Clerk	40	\$34.67	\$1,386.79
13	CPR LABOR	Track Gang, Foreman	0	\$30.20	\$0.00
14	CPR LABOR	Track Gang, Laborers	0	\$24.95	\$0.00
15	CPR LABOR	Track Welders	0	\$28.94	\$0.00
16		SUBTOTAL CPR DIRECT LABOR:			\$30,191.31
17					
<b>LINE</b>	<b>DESCRIPTION</b>	<b>RAIL SIGNAL SYSTEM LABOR</b>	<b>QTY.</b>	<b>RATE</b>	<b>TOTAL</b>
1	RSS LABOR -3004328	Senior Signal Engineer II	61.00	\$129.54	\$7,901.94
2	RSS LABOR -3004328	Senior Signal Engineer I	51.00	\$129.54	\$6,606.54
4	RSS LABOR -3004331	Project Engineer	58.00	\$86.79	\$5,033.82
5	RSS LABOR -3004338	Project Administrator	0.00	\$58.29	\$0.00
6	RSS LABOR -3004333	Design Checker	45.00	\$69.95	\$3,147.75
7	RSS LABOR -3004334	Signal Circuit Checker	63.00	\$69.95	\$4,406.85
8	RSS LABOR -3004339	Comptroller	51.00	\$77.72	\$3,963.72
9	RSS LABOR -3004347	Billing Clerk	29.00	\$37.57	\$1,089.53
10		SUBTOTAL RSS DIRECT LABOR:			\$32,150.15
11					

LINE	DESCRIPTION	CANADIAN PACIFIC RAILWAY TRAVEL	QTY.	RATE	TOTAL
1	CPR TRAVEL	Employee Airfare	0	\$0.00	\$0.00
2	CPR TRAVEL	Employee Meals (Per Diem)	83	\$35.00	\$2,905.00
3	CPR TRAVEL	Employee Travel & Lodging (Per Diem)	83	\$50.00	\$4,150.00
4		SUBTOTAL CPR TRAVEL:			\$7,055.00
5					
LINE	DESCRIPTION	CANADIAN PACIFIC RAILWAY EQUIPMENT	QTY.	RATE	TOTAL
1	CPR EQUIPMENT	Truck, Pickup, 1 Ton, Crew Cab			
2	CPR EQUIPMENT	Hourly	80	\$12.50	\$1,000.00
3	CPR EQUIPMENT	Daily	0	\$125.00	\$0.00
4	CPR EQUIPMENT	Weekly	0	\$500.00	\$0.00
5					
6	CPR EQUIPMENT	Truck, Pickup, with Hyrail			
7	CPR EQUIPMENT	Hourly	150	\$15.60	\$2,340.00
8	CPR EQUIPMENT	Daily	0	\$156.00	\$0.00
9	CPR EQUIPMENT	Weekly	0	\$624.00	\$0.00
10					
11	CPR EQUIPMENT	Truck, Diesel, Boom, Telescoping			
12	CPR EQUIPMENT	Hourly	150	\$80.10	\$12,015.00
13	CPR EQUIPMENT	Daily	0	\$801.00	\$0.00
14	CPR EQUIPMENT	Weekly	0	\$3,204.00	\$0.00
15					
16	CPR EQUIPMENT	Backhoe, 4WD, 70 HP			
17	CPR EQUIPMENT	Hourly	150	\$36.70	\$5,505.00
18	CPR EQUIPMENT	Daily	0	\$367.00	\$0.00
19	CPR EQUIPMENT	Weekly	0	\$1,468.00	\$0.00
20					
21	CPR EQUIPMENT	Trailer, Utility, Non-Tilt, 4 Tire			
22	CPR EQUIPMENT	Hourly	150	\$4.10	\$615.00
23	CPR EQUIPMENT	Daily	0	\$41.00	\$0.00
24	CPR EQUIPMENT	Weekly	0	\$164.00	\$0.00
25					
26	CPR EQUIPMENT	Generator, 2400 Watt, 5 HP			
27	CPR EQUIPMENT	Hourly	150	\$1.25	\$187.50
28	CPR EQUIPMENT	Daily	0	\$12.50	\$0.00
29	CPR EQUIPMENT	Weekly	0	\$50.00	\$0.00
30					
31	CPR EQUIPMENT	Grinder, Rail, Portable, On-Track			
32	CPR EQUIPMENT	Hourly	150	\$3.50	\$525.00
33	CPR EQUIPMENT	Daily	0	\$35.00	\$0.00
34	CPR EQUIPMENT	Weekly	0	\$140.00	\$0.00
35					
36	CPR EQUIPMENT	Section Truck, with Hoist and Crane			
37	CPR EQUIPMENT	Hourly	0	\$73.00	\$0.00
38	CPR EQUIPMENT	Daily	0	\$730.00	\$0.00
39	CPR EQUIPMENT	Weekly	0	\$2,920.00	\$0.00
40		SUBTOTAL CPR EQUIPMENT:			\$22,187.50
41					
LINE	DESCRIPTION	OUTSIDE SERVICES EXPENSES	QTY.	UNIT	TOTAL
1	BORING	Boring - Underground	200	\$45.00	\$9,000.00
2	ROCK	Rock, SB2, Fill Dirt	1	\$1,050.00	\$1,050.00
3	ELECTRICAL	AC Meter Service	1	\$3,500.00	\$3,500.00
4	CONTRACTOR	Engineering Check, PE FEE		\$3,750.00	\$0.00
5	CONTRACTOR	Concrete for Cantilever		\$100.00	\$0.00
6	CONTRACTOR	Field Print & Shipping Distribution	4	\$196.20	\$784.80
7	CONTAINERIZATION	Lines 2, 3, 4, 5, 6, 7	1	\$26,404.78	\$26,404.78
8	CPR TRAVEL	Line 4	1	\$7,055.00	\$7,055.00
9	CPR EQUIPMENT	Line 40	1	\$22,187.50	\$22,187.50
10	CONTRACTOR	0	0	\$0.00	\$0.00
10					69,982.08

LINE	100% FUNDING	SUMMARY OF PROJECT TOTAL ESTIMATE	QTY.	SUBTOTAL	TOTAL FUNDING
1		SUBTOTAL MATERIAL:	1	\$202,266.20	\$202,266.20
2		TAXES:	1	6.00%	\$12,135.97
3		SUBTOTAL RSS:	1	\$32,150.15	\$32,150.15
4		RSS PROFIT:	1	12.00%	\$3,858.02
5		SUBTOTAL CPR DIRECT LABOR:	1	\$30,191.31	\$30,191.31
6		CPR DIRECT LABOR ADDITIVES RATE:	1	66.27%	\$20,007.78
7		CPR GENERAL LIABILITY INSURANCE RATE:	1		\$0.00
8		SUBTOTAL CPR TRAVEL, EQUIPMENT & OUTSIDE SERVICES:	1	\$69,982.08	\$69,982.08
9		PROJECT TOTAL:			\$370,591.51

## AGREEMENT

THIS AGREEMENT made and entered into by and between CITY of Muscatine, a Governmental Subdivision of the State of Iowa, hereinafter referred to as the "CITY" and DAKOTA MINNESOTA AND EASTERN RAILROAD COMPANY, doing business as CANADIAN PACIFIC, hereinafter referred to as the "COMPANY."

### Contracting Parties

City Contact Person  
Gregg Mandsager, ICMA-CM  
City Administrator  
City of Muscatine  
215 Sycamore Street  
Muscatine, IA 52761  
563-264-1550 Work  
563-264-0750 Fax  
[gmandsager@muscatineiowa.gov](mailto:gmandsager@muscatineiowa.gov)

Company Contact Person  
Jim H. Krieger  
Manager Public Works - US South Region  
Canadian Pacific Plaza  
120 South 6th Street., Suite 900  
Minneapolis, MN 55402  
612-330-4555  
[Jim.Krieger@cpr.ca](mailto:Jim.Krieger@cpr.ca)

### WITNESSETH

WHEREAS, Iowa Street with DOT #607206F as presently located in CITY of Muscatine, Muscatine County, Iowa, crosses at grade main line track of the COMPANY at railroad mile post 219.38 on the Ottumwa Subdivision, US East Region; and

WHEREAS, the CITY proposes to replace existing railroad warning devices substantially as shown on the plan attached hereto and marked Exhibit "A" (the "Project"); and

WHEREAS, The CITY and COMPANY desire that said grade crossing be provided, with the participation of CITY funds, with four quadrant flashing lights with gates, constant warning circuitry and LED lenses, and the COMPANY is willing to install, maintain and operate such signals upon the terms and conditions hereinafter stated; and

The CITY agrees to secure funds for the cost of this safety improvement project. The CITY's sole purpose under this agreement is to administer the funding. The CITY agrees to furnish a lump sum deposit in the amount of \$364,000. Any amount above the deposit amount will be approved by the CITY and billed to the CITY accordingly. It is specifically understood and agreed that the COMPANY shall have no obligation to perform any individual Project until such time as the agreement is fully executed by all parties identified.

### Preliminary Engineering

Preliminary Engineering to the COMPANY's engineering standards was authorized by separate PE Agreement for the lump sum of \$5,000 funding by letter from CITY prior to execution of this agreement. Preliminary Engineering includes production of site plans, cost estimates and circuit

plans prepared by the COMPANY or its contractor/consultant for this Agreement. The site plan portion of the circuit plan (front sheet) and the cost estimate labeled as EXHIBIT "B" shall be attached and by this reference incorporated into this Agreement.

WHEREAS, the parties desire to set forth the terms and conditions for the safety improvements, and

NOW, THEREFORE, in consideration of the premises and of the mutual covenants and agreements contained herein, the parties agree as follows:

The "Standard Provisions for Highway-Railroad Agreements" attached hereto as Exhibit "C" are hereby made a part of this Agreement.

The COMPANY OR CITY owns all right of way needed to operate the proposed improvement.

The COMPANY shall furnish, or cause to be furnished, all of the labor, materials and work equipment required to install a complete railroad crossing signal system with four quadrant flashing light, gates, constant warning timing circuitry and LED lenses on Iowa Street at the location indicated on Exhibit "A".

The estimated total cost of the work to be performed hereunder by the COMPANY at the expense of the CITY as outlined above is \$364,000 plus the actual cost as indicated in the detailed estimate of cost attached hereto and marked Exhibit "D".

The Project will be funded using CITY funds. The CITY will pay the COMPANY as provided herein for only such items and expense as are proper and eligible for payment. Only materials actually incorporated into the project will be eligible for reimbursement.

#### COMPANY RESPONSIBILITY

The COMPANY or its contractor/consultant shall provide all engineering, materials, and labor to construct the Project. The Project shall be constructed in a good workmanlike manner in accordance with COMPANY standards, and with Part 8 of the Manual on Uniform Traffic Control Devices for Streets and Highways (23 CFR 655F). The COMPANY or its contractor/consultant shall not be reimbursed for any work outside the scope of the Project without prior written approval by the CITY.

The COMPANY warrants that it shall perform all work under this agreement in a workman like and timely manner in accordance with all applicable standards for work of the type at issue. Should the work fail to be performed in a timely manner or in accordance with applicable standards, the CITY may immediately suspend further payments under this agreement and the COMPANY shall repay all funds expended on unsatisfactory work.

The COMPANY shall operate and maintain the crossing warning devices in accordance with Federal or State law as it shall be from time to time in the future while it operates its line of

Railroad. The signal system is the property of the CITY and must not be removed unless there has been a determination by the CITY that the signal system is no longer required at this location. If the signal system is removed, the Company must notify the CITY of its pending removal. The CITY will have the final determination over the disposition of the equipment.

The COMPANY will coordinate with the CITY for traffic control and road detours if needed. The traffic control shall be in accordance with the Iowa DOT construction standards.

## CITY RESPONSIBILITIES

The CITY shall insure that all pavement markings are properly painted and advanced warning signs are in place and maintained as required by Part 8 of the Manual on Uniform Traffic Control Devices for Streets and Highways. The CITY shall also insure clear motorist view from the roadway lanes of the flashing lights at the crossing. The CITY shall maintain this clear view as long as the signals remain at the crossing.

## Notification Requirements

The COMPANY shall notify the CITY's contact person no later than 14 days prior to the start of the Project at the crossing. The COMPANY shall also notify the CITY's contact person when the work at the Project location is completed. The contact persons are shown on page 1 of the Agreement.

## Work State and Completion

The COMPANY or its contractor/consultant shall begin construction of the Project as soon as possible after the CITY gives written authorization to proceed, and shall complete the Project within twelve (12) months of written authorization to proceed. The Project shall be considered complete when the COMPANY physically completes the work and the Project has been approved by the CITY.

## Project Inspection and Completion

The CITY shall have the right to inspect the Project work at any time. The CITY will arrange an inspection with the COMPANY so it can determine whether the Project complies with the terms of the Agreement and whether the installation is consistent with the material list supplied by the COMPANY.

## Reimbursement Guidelines

The CITY agrees to furnish lump sum deposit in the amount of \$364,000. Any amount above deposit amount will be approved by the CITY and billed to the CITY accordingly.

## Successors In Interest/ Governing Law

This Agreement shall be binding upon the parties hereto, their successors or assigns. This Agreement shall be governed by and interpreted in accordance with the laws of the State of Iowa.

Execution Clause

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed in duplicate counterparts, each of which shall be considered as an original, by their duly authorized officers, as of the dates below indicated.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be duly executed.

ACCEPTED: \_\_\_\_\_, 2017      APPROVED: \_\_\_\_\_, 2017

City of Muscatine, Iowa

Dakota, Minnesota and Eastern Railroad

By: \_

By:

Attest: \_\_\_\_\_

Attest: \_\_\_\_\_

Date: \_\_\_\_\_, 2017

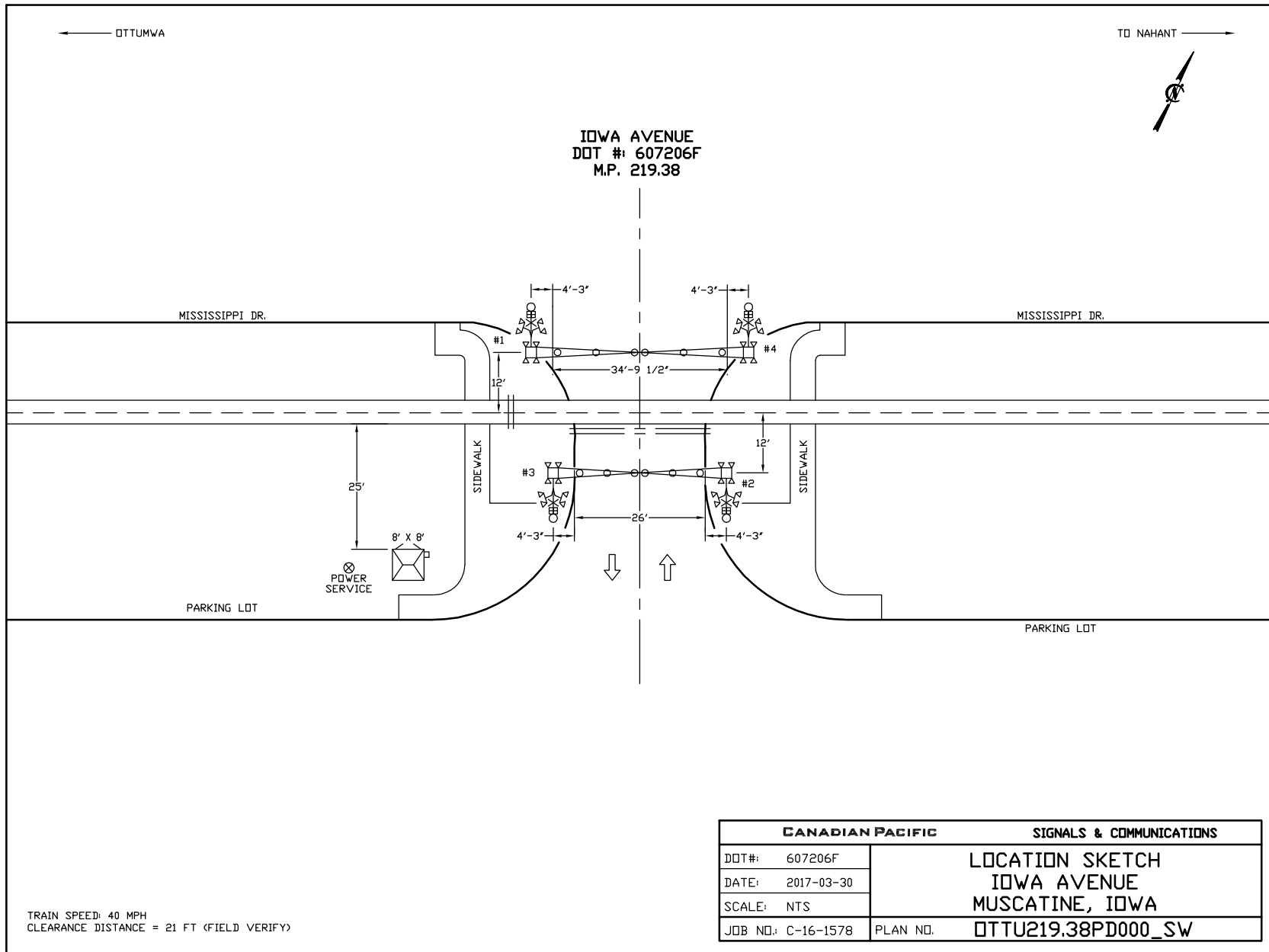
Date: \_\_\_\_\_, 2017

**Exhibit A**  
**CITY Plan Drawing**





**Exhibit B**  
**Signal Plan**



**Exhibit C**  
**Standard Provisions for Highway-Railroad Agreements**  
**(Non-Federal Aid Projects)**

## Exhibit C

### STANDARD PROVISIONS FOR HIGHWAY-RAILROAD AGREEMENTS (NON-FEDERAL AID PROJECTS)

1. The COMPANY, for performance of its work, may bill the ROAD AUTHORITY monthly for the ROAD AUTHORITY'S share of the actual cost and expenses incurred. These progressive invoices may be rendered on the basis of the estimated percentage of the work completed. The ROAD AUTHORITY after verifying that the bill is reasonable and proper, shall promptly reimburse the COMPANY.

The COMPANY, upon the completion of its work, shall send the ROAD AUTHORITY a detailed final statement of actual expensed it incurred, including allowable additives. After the ROAD AUTHORITY'S representatives have checked the final statement and have agreed that the cost are reasonable and proper insofar as they are able to ascertain, the ROAD AUTHORITY shall reimburse the COMPANY in the amount, less previous payments, if any, equal to the amount billed.

After the ROAD AUTHORITY representatives have audited the expensed incurred by the COMPANY and final inspection of the installation has been made, the COMPANY shall reimburse the ROAD AUTHORITY for any item (or items) of expense found by the ROAD AUTHORITY representatives to be ineligible for reimbursement.

2. It is understood that the project herein contemplated shall be subject to all appropriate Federal laws, rules, regulations, orders and approvals pertaining to all agreements in general. The use of said guidelines for reimbursement between the parties hereto shall not be deemed to require reimbursement of the ROAD AUTHORITY by the Federal Highway Administration as a condition precedent to the ROAD AUTHORITY'S obligation.
3. All work herein provided to be done by the ROAD AUTHORITY or its contractor or contractors on the right-of-way or upon, over, under or across the railroad tracks of the COMPANY shall be done in a manner satisfactory to the COMPANY and shall be performed as such time and in such manner as not to interfere unnecessarily with the movement of trains or traffic upon the tracks of the COMPANY. The ROAD AUTHORITY shall require its contractors or contractors to use all care and precaution necessary to avoid accident, damage or interference to the COMPANY'S tracks or the trains or traffic using its tracks, and to notify the COMPANY a sufficient time in advance whenever the contractor is about to perform work adjacent to the track to enable the COMPANY to arrange for the furnish flagging and such other protective services as might be necessary to insure safety of railroad operations.

The COMPANY shall have the right to furnish all such flagging or protective service as in its judgment is necessary, and the ROAD AUTHORITY or its contractor or contractors shall reimburse the COMPANY for the cost thereof. Wherever safeguarding of trains or traffic or the COMPANY is mentioned in this agreement, it is intended to cover all users of the COMPANY'S track having permission for such use.

## Exhibit C

4. The ROAD AUTHORITY shall require its contractor or contractors, upon completion of the work, to remove all machinery, equipment, temporary buildings, false work, debris and rubbish from COMPANY right-of-way, to provide proper drainage away from COMPANY track, and to leave the tracks and right-of-way in a neat condition, satisfactory to the COMPANY'S Chief Engineer or his representative.
5. Any contract between the ROAD AUTHORITY and its contractor or subcontractor to perform the work herein provided to be done by the ROAD AUTHORITY shall require that the contractor or sub-contractor protect SOO LINE RAILROAD COMPANY, and any other railroad occupying or using COMPANY right-of-way or lines of railroad with the permission of the COMPANY, against all loss and damage arising from the activities of the contractor, its forces. Or any of its subcontractors or agents, and shall further provide that the contractor shall furnish the COMPANY a Railroad Protective Liability Insurance policy providing for protection of the COMPANY, in accordance with the Federal-Aid Policy Guide, Title 23, Part 140, Subpart 1 and any supplements to or revisions unless otherwise noted. The limits of the policy shall be not less than \$2,000,000 combined single limit per occurrence for bodily injury, death, property damage and physical damage to property, with an aggregate limit of not less than \$6,000,000 per policy period. The insurance policy shall be delivered to and approved by the COMPANY prior to entry upon or use of its property to commence work upon, over, under, across or adjacent to COMPANY tracks by and contractor.
6. Subsequent to the award of any contract, and before any work is started on this project, a conference shall be held between the representatives of the ROAD AUTHORITY, the COMPANY, and the interested contractor at a time and place designed by the ROAD AUTHORITY for the purpose of coordinating the work to be performed by the several parties and at such time a schedule of operation will be adopted.
7. The COMPANY will credit the ROAD AUTHORITY for the salvage value of all track, communication and signal line material used on a temporary basis during the construction of the project and accepted by the COMPANY for return to its stock.

The ROAD AUTHORITY shall be afforded a reasonable opportunity to inspect materials recovered by the COMPANY prior to disposal by sale of scrap.

8. When the roadway is to be closed to vehicular traffic while the railroad work is being performed, the ROAD AUTHORITY at its expense shall furnish, erect, maintain and remove the traffic control devices necessary to detour highway traffic after the COMPANY gives two weeks advance notice to the ROAD AUTHORITY'S engineer.

When the COMPANY is to perform its work while maintaining highway traffic, the ROAD AUTHORITY shall furnish or cause to be furnished, at its expense, the signs, barricades and traffic control devices for erection by the COMPANY after two weeks advance notice is given to the ROAD AUTHORITY'S engineer. The COMPANY at the expense of the ROAD AUTHORITY shall erect, maintain, relocate and remove the signs, barricades, and other traffic control devices, including the furnishing of flagmen, as required to maintain highway traffic throughout the time the railroad work is being performed.

**Exhibit D**  
**Cost Estimate**



## Rail Signal Systems Corporation

## Transmittal

DATE: MARCH 28, 2017

2425 Great Southwest Parkway, Fort Worth, TX 76106

Phone 817.595.3503 Fax 817.595.3594

TO Canadian Pacific Railway

Jim Krieger Ed

Harwick Greg

Zielke Perry

Louwagie Garry

Rosin Cory

Wogrinc Cindy

Ingram

Andrew Krivanek

FROM John Cummings

john.cummings@railsignalsystems.com

PROJECT NO.	SUBJECT	TRANSMITTAL NO.
C-16-1578	Estimate Iowa Avenue, Muscatine, IA	CPR-1578-T1

DESCRIPTION	INFORMATION
Project Information	<p>~~~~~</p> <p>CROSSING: Iowa Avenue NUMBER OF TRACKS: 1 SUBDIVISION: Ottumwa MILE POST: 219.38 FRA/AAR DOT No: 607206F COUNTY: Muscatine TOWN/CITY: Muscatine STATE: Iowa IA-DOT Project ID: n/a PROJECT AUTHORIZATION DATE: Request for Estimate ONLY. PROJECT COMPLETION DATE: Per scheduling &amp; agreement execution in 2017. FUNDING: 100% to City of Muscatine PROJECT CONTACT: Jim Harbaugh / Bolton-Menk Consultant 515-259-9190 ext. 2912 cell 515-664-5333 e-mail jimha@bolton-menk.com</p> <p><b>PROJECT:</b> New signal system for four (4) quadrant flash light signals and gates, side lights, LED's, CWT, bungalow, etc.</p> <p>Please contact Customer Service at 817.595.3503 with any questions or comments.</p>

Thank you



# CANADIAN PACIFIC RAILWAY

Iowa Street (First Street) - Muscatine, IA (Muscatine County)

DOT 607206F M.P. 219.38 (Ottumwa Subdivision) Latitude: 41.4203209 Longitude: -91.0446747

RSS Project No. C-16-1578 City Project ID: (City of Muscatine Funding 100% - Installation 2017)

03/28/2017 - Rev. 2.0 (Estimate valid for 1 year)

LINE	PART NUMBER	HOUSE MATERIAL	QTY.	UNIT	TOTAL
1	062500-88-3	HOUSE, ALUM, PTMW 8' X 8'	1	\$12,337.03	\$12,337.03
2	300752-000	XP4 9-Slot Chassis,	1	\$3,075.64	\$3,075.64
3	4000712	ELIXS XP4, VPM-3 XING EXEC MODULE	1	\$2,226.29	\$2,226.29
4	251456-000	XP4 Central Power Supply, CPS-3	1	\$620.11	\$620.11
5	251495-000	XP4 UCI-3, EEPROM for XP4	1	\$507.74	\$507.74
6	251346-000	XP4 Normal-Standby Module NSM-1	1	\$913.86	\$913.86
7	251124-000	XP4 Control Display Unit, CDU-1	1	\$402.76	\$402.76
8	251333-000	XP4 Ground Fault Detector, GFD-1	1	\$649.18	\$649.18
9	251380-000	XP4 Vital I/O Module, 8 In/6 Out, VI0-86S	3	\$2,424.24	\$7,272.72
10	227537-000	XP4 VI0-86S Personality Module	3	\$463.63	\$1,390.88
11	251336-000	XP4 Crossing Track Interface Module,XTI-1S	2	\$3,577.23	\$7,154.47
12	227481-000	XP4 XTI-1S Personality Module, Normal/Standby	1	\$438.88	\$438.88
13	251384-000	XP4 Integrated Crossing Controller Module, IXC-20S	2	\$2,443.48	\$4,886.95
14	227546-000	XP4 IXC-20S Personality Module	2	\$442.93	\$885.86
15	003662-000	Blank EEPROM	1	\$16.59	\$16.59
16	100323-010	ElectrologIXS XP4, Field Reference Manual	1	\$0.00	\$0.00
17	251495-000	XP4 Chassis Information Module,XCI-2, Flash Memory	1	\$483.81	\$483.81
18	NYK:038403-49	PANEL,MDSA-1XS, PANEL, 1 TRACK	1	\$455.47	\$455.47
19	250675-100	ELIXS XP4, MDSA-2XS Panel, 2 Track	0	\$795.85	\$0.00
20	NYK:8000802710001	SEAR II, ILOD	2	\$680.09	\$1,360.17
21	NYK:150321-2	CHARGER, 12V, 40AMP, 120/230	2	\$1,086.75	\$2,173.50
22	NYK:151236-T09992	TRANSFORMER, 120/24 VAC, TYPE	1	\$84.39	\$84.39
23	NYK:400044883152X1	ASSEMBLY SURGE PANEL VERTICAL	6	\$209.74	\$1,258.43
24	NYK:400044883127X1	ASSEMBLY SURGE PANEL VERTICAL	9	\$625.64	\$5,630.78
25	US2:400004	RELAY, TYPE "ST" NEUTRAL	3	\$808.29	\$2,424.87
26	NYK:420000-75X	KIT, RELAY SKT, VOLT TEST	3	\$69.04	\$207.11
27	NYK:057883-1X	RLY,SWINGRACK,ST1,1ROW,8POS	1	\$1,416.40	\$1,416.40
28	NYK:053222-T04010	RLY,KUP,SKT-MTG,12VDC	2	\$15.39	\$30.79
29	NYK:054222-T09996	RLY,SKT,KUP,3P,15A,240VAC	2	\$9.24	\$18.48
30	NYK:053222-T09795	CLIP, HOLD DOWN RELAY, P&B 20C	4	\$0.56	\$2.23
31	NYK:310152-T00391	FUSE, 5A FRN-5	1	\$6.70	\$6.70
32	NYK:T13212	FUSE,10 AMP,250 VOLT,FRN-R-10,	2	\$6.65	\$13.29
33	NYK:027614-1X	FUSE BLOK, 2P, 14UNS, BKLTE	3	\$79.49	\$238.46
34	NYK:023612-1X	BLOCK, TERMINAL2-3/8" CENTER,	28	\$18.24	\$510.68
35	NYK:023274-501X	BLOCK, TERMINAL 12	5	\$31.98	\$159.92
36	NYK:409152-T09455	CONNECTOR, 1/2" STRAIGHT SQUEE	3	\$2.79	\$8.38
37	NYK:023408-1X	NUT, INSULATED	30	\$7.84	\$235.31
38	TBD	ARRESTER. EPD2050F, EQUIPMENT PANEL	42	\$54.63	\$2,294.52
38	TBD	ARRESTER. EPD2050F, FARRADAY PANEL	56	\$54.63	\$3,059.36
39	NYK:40004480707AX	AC LINE PROTECTORS SP20-3A	2	\$135.20	\$270.40
40	NYK:099056-T01538	WIRE, #16 OKONITE T.C.BLUE	1600	\$0.20	\$319.20
41	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	1200	\$0.30	\$365.40
42	NYK:099152-T08707	WIRE,10AWG,600V,GRN,THHN-THWN	200	\$0.28	\$56.70
43	NYK:099152-T06958	WIRE,6AWG,600V,GRN,THHN-THWN	30	\$0.76	\$22.68
44	NYK:022316-73	WIRE, #16 26 STRAND GREEN	20	\$0.11	\$2.10
45	NYK:099152-T00101	WIRE, #14 SOLID GREEN INSULAT	10	\$0.13	\$1.26
46	NYK:021624-3	BONDSTRAND, INSULATION 3/32"	250	\$1.26	\$315.00
47	NYK:T15514	CABLE, 2 CONDUCTOR 18 AWG	18	\$0.66	\$11.91
48	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	150	\$0.27	\$40.95
49	NYK:091769-T10546	TERMINAL, RING AMP #35349, WIR	75	\$0.69	\$51.98
50	NYK:024628-138	TERMINAL, RING, 1/4 POST, #6	20	\$1.82	\$36.33
51	NYK:170123-31	END LUG KIT FOR SPL	2	\$40.46	\$80.91
52	NYK:409152-T09456	CONDUIT, 1/2" FLEX, METAL	34	\$0.56	\$18.92
53	NYK:092307-306X	BOX, TEST W/(1) DPDT LEVER SWI	1	\$839.84	\$839.84

54	NYK:T12975	CONNECTOR,FLEX CONDUIT,1/2" 90	8	\$2.16	\$17.30
55	NYK:Z4150020R0001	RES MTL FLM FIXED	2	\$0.12	\$0.23
56	NYK:023408-6X	CAP, INS SHIELD, 1 SLOT 0.50	11	\$16.40	\$180.41
57	NYK:007470-1B	BREAKER SGL 15A	2	\$8.51	\$17.01
58	NYK:007470-1C	BREAKER 2-POLE, 15A	2	\$20.81	\$41.62
59	NYK:8000800780001	NETWORK TERMINATON UNIT 80078	2	\$129.41	\$258.83
60	NYK:007417	3/4" 1 HOLE EMT STRAP	10	\$0.13	\$1.26
61	NYK:098152-T00255	WIREDUCT,2INX2INX6FT,GRAY,E2X2LG6	12	\$3.14	\$37.67
62	NYK:098152-T00256	PANDUIT E2X3LG6 TAYLOR #92030	30	\$1.96	\$58.91
63	NYK:018-06-005	COVER, 2" DUCT	42	\$0.91	\$38.37
64	NYK:018-06-021	WIREDUCT,COVER,1INX6FT,GRAY,C1LG6	12	\$0.39	\$4.66
65	NYK:018-06-020	WIREDUCT,1INX3INX6FT,GRAY,G1X3LG6	12	\$2.36	\$28.35
66	NYK:098152-T00305	PANDUIT E3X3LG6	18	\$4.54	\$81.65
67	NYK:098152-T00251	COVER,PANDUIT #C3LG6 3"X 6' L	18	\$1.27	\$22.87
68	NYK:023590-2X	GND, BOLT, ASM, 5/16-18	2	\$6.89	\$13.78
69	NYK:T18510	LIGHT, POWER OFF, GEMS	1	\$163.62	\$163.62
70	NYK:007200-CHQRFQ	ENCLOSURE, HOFFMAN, 8X6X4, FIB	1	\$119.89	\$119.89
71	NYK:051894-284	PLATE, STEEL MOUNTING	1	\$7.22	\$7.22
72	NYK:153518-224	CABLE, FOR CROSSING INTERFACE	2	\$120.06	\$240.11
73	NYK:153518-225	CABLE,FOR CROSSING INTERFACE	2	\$120.06	\$240.11
74	036117-CP-1	PANEL, JUMPER 1, ALUMINUM CP	2	\$10.27	\$20.54
75	NYK:051659-7	HOLDER, PLAN, WALL MOUNT	2	\$1.33	\$2.67
76	NYK:153518-412	KIT, WALL MOUNT FOR XIP-20B GE	2	\$85.71	\$171.42
77	NYK:007302-1	KNOCKOUT BUSHING, RIGID 3/4	2	\$0.24	\$0.48
78	NYK:007183	CON BUSHING 1/2	6	\$0.14	\$0.82
79	NYK:007152	LOCK NUT CONDUIT 3/4"	1	\$0.37	\$0.37
80	NYK:230072-T09988	NIPPLE, INSULATED CHASE, T&B #	1	\$2.96	\$2.96
81	NYK:170123-21	BATT, NI-CAD, SPL 250 AH 10	1	\$2,342.55	\$2,342.55
82	NYK:170123-22	BATT, NI-CAD, SPL 340 AH 10	0	\$3,320.63	\$0.00
83	YK:170123-25	BATT, NI-CAD, SPL 420 AH 10	1	\$4,304.74	\$4,304.74
84	NYK:036118-19	DECAL, PRE-EMPTION WARNING CP	1	\$6.52	\$6.52
85	7200	BOX 2 X 4 OUTLET	0	\$0.71	\$0.00
86	007226-2	COVER, HANDY BOX	0	\$0.45	\$0.00
87	230033-T10753	NIPPLE, INSULATED, 1/2" T&B 19	0	\$1.62	\$0.00
88	029602-1X	RESISTOR,0.63 OHM ADJ.PORCELA	0	\$49.88	\$0.00
89	051639-100	RACK, BATTERY 2 TIER, PTMW	2	\$113.51	\$227.01
90	T16624	PANEL, TSA-1A TRK.SURGE,FOR CP	0	\$106.26	\$0.00
91	T12852	EPC FINAL ASSY TD-1A	0	\$288.75	\$0.00
92	T12853	EPC FINAL ASSY ACG-2T, HARMON	0	\$184.75	\$0.00
93	029603-2X	RESISTOR, 5.0 OHM ADJ.PORCELAIN	0	\$53.29	\$0.00
94	T14005	RECTIFIER, RING-10,FOR CP RAIL	0	\$111.09	\$0.00
95				<b>SUBTOTAL</b>	<b>\$75,939.52</b>
LINE	PART NUMBER	GROUND MATERIAL	QTY.	UNIT	TOTAL
1	NYK:030399-16X	PADLOCK, HEXAGON OR SPANNER W/	6	\$37.10	\$222.58
2	NYK:231271-T09993	PADLOCK, STL, W/O CHN, COMB KEY AME	2	\$29.59	\$59.18
12	400999-T00027	WIRE, #6 SOLID SOFT DRAWN COPP	100	\$0.58	\$57.75
4	NYK:112152-T01991	ROD, GROUND 5/8" X 10'	14	\$23.30	\$326.19
5	NYK:112026-T01958	CONNECTION,1-SHOT CADWELD #SBN	14	\$9.47	\$132.59
6	NYK:021624-3	BONDSTRAND, INSULATION 3/32"	100	\$1.26	\$126.00
8	NYK:099044-T10004	CABLE, GP, 2C, 6AWG, TW PR, 600V	590	\$1.72	\$1,015.98
7	NYK:409244-T06526	CABLE, UG, 7C, 6AWG, SIGNAL, 600V	1250	\$6.01	\$7,507.50
7	NKY:099044-T1005	CABLE, UG, 10C, 14AWG, SIGNAL, 250V	2250	\$1.90	\$4,276.13
9	NYK:400999-T00185	SEALANT, PERMAGUM PLASTIC	3	\$7.25	\$21.74
10	NYK:021378-21X	CLAMP,INS. WIRE W/O	20	\$9.14	\$182.70
11	NYK:115026-T00550	WELD METAL, CADWELD NO. SB25	12	\$1.69	\$20.29
12	NYK:999026-T08742	CLIP, TRK. CIRCUIT RETAINER, 1	12	\$2.98	\$35.78
13	NYK:116152-T00151	SEALANT, DUCT, BLACKBURN DX-5S, 5LB	2	\$6.33	\$12.66
14	NYK:T17604	TUBING, HEAT SHRINK	4	\$35.88	\$143.51
15	NYK:116136-T10734	TAPE,ELEC,BLK,0.75INX66FT,600V,COLD-E	2	\$4.87	\$9.74
16	NYK:400999-T00154	HOSE, 2" DIA. X 18" LONG	4	\$3.62	\$14.49
17	NYK:350053-T11934	BROOM, HEAVY DUTY #1003308	1	\$16.31	\$16.31

18	NYK:409915-T09043	PADLOCK, STL, W/O CHN, PROG KEY MSTR	1	\$24.89	\$24.89
19	NYK:070981-X	WRENCH KIT, TORQUE	1	\$311.48	\$311.48
20	NYK:153518-211	CONNECTION, ONE SHOT, 2 WIRE	8	\$13.28	\$106.26
21	NYK:035005-2X	U-BOLT ASSY. 5" W/HDWR	4	\$18.72	\$74.89
22	NYK:330276-T09999	FOUNDATION, 1 PIECE, 48" TALL,	4	\$311.54	\$1,246.14
23	NYK:070692-9X	CONDUIT ASSY, 2.5" X 48" W/CON	4	\$499.80	\$1,999.20
24	NYK:330276-T10066	FOUNDATION, CONCRETE, 54" ONE, CANTILEVER	0	\$923.74	\$0.00
25	NYK:071500-FTEMP	FOUNDATION TEMPLATE, CANTILIEVER	0	\$133.88	\$0.00
26	NYK:035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE, CANTILEVER	2	\$7.91	\$15.81
27	NYK:036117-5304	SIGN, CANADIAN PACIFIC ENS,	4	\$29.54	\$118.15
28	NYK:999379-CP	DECAL, HOUSE CP RAIL	2	\$16.91	\$33.81
29	021500-135	SHUNT, NBS-2, 156 HZ, GE	2	\$638.00	\$1,276.00
30	T14004	COUPLER, TUNED JT. 156HZ FOR CP RAIL	2	\$959.96	\$1,919.93
31	225238-001	JUNCTION BOX, TERMINATION - GE MODEL 385-A-3	2	\$172.43	\$344.86
32	035800-2X	FOUNDATION,BUNGALOW GALV. 48"	0	\$171.40	\$0.00
33	034037-11	LOAD, DUMMY, FSS LOAD 3000FT.	0	\$97.81	\$0.00
34	400510	RELAY, TYPE "ST" BIASED NEUTRAL	0	\$809.68	\$0.00
35	400510	GUARD RAIL, FULL CIRCLE	0	\$1,443.75	\$0.00
36	TBD	TRACK FILTER, 156HZ	0	\$1,101.98	\$0.00
37	409244-T06525	CABLE, U.G. 3C #2 SOLID COPPER	150	\$8.99	\$1,348.20
38				<b>SUBTOTAL</b>	<b>\$23,000.73</b>
LINE	PART NUMBER	PLATFORM MATERIALS	QTY.	UNIT	TOTAL
1	157A	FOUNDATION, CONCRETE DPS-2 5'7	4	\$652.05	\$2,608.20
2	3000373	PTMW PLATFORM W/STAIRS FOR BUNG. M	1	\$19,945.80	\$19,945.80
3				<b>TOTAL</b>	<b>\$22,554.00</b>
LINE	PART NUMBER	SIGNAL #1	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	GATE, S-60 W/ HARDWARE PKG.	1	\$3,623.03	\$3,623.03
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64
12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$17,557.07</b>
LINE	PART NUMBER	SIGNAL #2	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	GATE, S-60 W/ HARDWARE PKG.	1	\$3,623.03	\$3,623.03
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64

12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$17,557.07</b>
LINE	PART NUMBER	SIGNAL #3	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	EXIT GATE, S-60 W/ HARDWARE PKG.	1	\$6,717.06	\$6,717.06
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64
12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$20,651.11</b>
LINE	PART NUMBER	SIGNAL #4	QTY.	UNIT	TOTAL
1	NYK:070519-203X-3	MAST & BASE 16'	1	\$1,713.60	\$1,713.60
2	NYK:070519-40AX-1	MAST, "S" 5" X 16'0" STD. HOLE	0	\$887.91	\$0.00
3	NYK:074600-W00105A	EXIT GATE, S-60 W/ HARDWARE PKG.	1	\$6,717.06	\$6,717.06
4	NYK:042003-XCPS5	FLX-4000 & X-ARM 2-WAY 5" MTG	1	\$1,757.44	\$1,757.44
5	NYK:042003-XCPS2	FLX4K,1WAY,5MTG,24BG,16VIS,POLY,CP	0	\$1,884.96	\$0.00
6	NYK:042003-XCPS4	FLX4K,2WAY,4MTG,24BG,16VIS,POLY,CP	1	\$3,432.56	\$3,432.56
7	NYK:041442-26X	SIDELT CANT 5"MTG W/ SUPPORT	1	\$697.04	\$697.04
8	NYK:099056-T01379	WIRE, #10 OKONITE T.C.BLUE #11	30	\$0.30	\$9.14
9	NYK:097769-T02961	TERMINAL, #12-10, 1/4" BINDING	6	\$0.27	\$1.64
10	NYK:250165-T09225	KEEPER, GATE ARM, GENERAL SIGN	1	\$1,979.09	\$1,979.09
11	NYK:070755-2528BX	COUNTERWEIGHT PACKAGE, 23'-32'	1	\$2,410.64	\$2,410.64
12	NYK:259371-T10128	BRACKET, HIGH WIND, NEG 191036	1	\$82.11	\$82.11
13	NYK:074039-24X-CP1	KIT, S-60 CP WIRING HARN. A	1	\$235.77	\$235.77
14	NYK:023408-1X	NUT, INSULATED	4	\$7.84	\$31.37
15	NYK:250938-T11152	GATE ARM, 16'-32' ALUM/FIBER,	1	\$682.24	\$682.24
16	NYK:253165-T10906	BELL, ELECTRONIC, 4"-5" BASE,	1	\$235.46	\$235.46
17	NYK:023274-X65	BAG, HDW TEST LINK KIT GATE	1	\$91.04	\$91.04
18	NYK:035200-17DXD	SIGN "RAILROAD CROSSING" , DOU	1	\$541.75	\$541.75
19	035015-70	KIT, SIGN HARDWARE, BB7 BUCKLE	1	\$7.91	\$7.91
20	036117-5304	SIGN, CANADIAN PACIFIC ENS,	1	\$25.26	\$25.26
21	TBD	SIGN, 2 TRACK SIGNAGE AND MTG. HARWARE	0	\$133.88	\$0.00
22	NYK:035045-503X	PINNACLE, 4" AND 5"	0	\$21.18	\$0.00
23				<b>SUBTOTAL</b>	<b>\$20,651.11</b>
LINE	PART NUMBER	MATERIAL CONTAINERIZATION SUMMARY	UNIT	SUBTOTAL	TOTAL

1	MATERIAL	MATERIAL:	1	\$197,910.60	\$197,910.60
2	ENGINEERING	ENGINEERING SERVICES:	1	\$784.00	\$784.00
3	ENGINEERING	SHOP LABOR:	1	\$12,462.36	\$12,462.36
4	DEMURRAGE	DEMURRAGE:	240	\$11.00	\$2,640.00
5	CONTAINER	GATE CART RENTAL:	4	\$50.00	\$200.00
6	FREIGHT	CONTAINERS/FLATBED - ESTIMATE FREIGHT:	475	\$19.70	\$9,357.50
7	CONTAINER	CONTAINER USAGE:	2	\$355.00	\$710.00
8				<b>TOTAL</b>	<b>\$224,064.46</b>
<b>LINE</b>	<b>PART NUMBER</b>	<b>TRACK MATERIALS SUMMARY</b>	<b>QTY.</b>	<b>UNIT</b>	<b>TOTAL</b>
1	TRACK MATERIAL	INSULATED JOINTS, PER FIELD REQUEST	0	\$918.75	\$0.00
2	TRACK MATERIAL	WELDS, FIELD, FOR INSULATED JOINT	0	\$73.50	\$0.00
3	TRACK MATERIAL	PLATE, INSULATED GAUGE PLATE	0	\$1,653.75	\$0.00
4	TRACK MATERIAL	ROD, #1 INSULATED THROW	0	\$1,023.75	\$0.00
5	TRACK MATERIAL	ROD, #2 INSULATED	0	\$918.75	\$0.00
6				<b>TOTAL</b>	<b>\$0.00</b>
0	0	0	0	0	\$0.00
		<b>MATERIAL COST SUMMARY</b>		<b>GRAND TOTAL</b>	<b>\$197,910.60</b>
0	0	0	0	0	0
<b>LINE</b>	<b>DESCRIPTION</b>	<b>CANADIAN PACIFIC RAILWAY LABOR</b>	<b>QTY.</b>	<b>RATE</b>	<b>TOTAL</b>
1	CPR LABOR	Signal Gang, Foreman	140	\$34.67	\$4,853.77
2	CPR LABOR	Signal Gang, Foreman, Overtime	0	\$52.00	\$0.00
3	CPR LABOR	Signal Gang, Lead Signalman	140	\$30.82	\$4,314.46
4	CPR LABOR	Signal Gang, Assistant Foreman, Overtime	0	\$46.23	\$0.00
5	CPR LABOR	Signal Gang, Signalman	140	\$30.21	\$4,229.39
6	CPR LABOR	Signal Gang, Signalman, Overtime	0	\$45.31	\$0.00
7	CPR LABOR	Signal Gang, Assistant Signalman	280	\$27.62	\$7,734.89
8	CPR LABOR	Signal Gang, Assistant Signalman, Overtime	0	\$41.44	\$0.00
9	CPR LABOR	Project Manager	35	\$48.26	\$1,688.94
9	CPR LABOR	Signal Supervisor	35	\$42.12	\$1,474.08
10	CPR LABOR	Testing & Commisioning Technician I	40	\$34.67	\$1,386.79
11	CPR LABOR	Testing & Commisioning Technician II	40	\$34.67	\$1,386.79
12	CPR LABOR	Accounting/Billing Clerk	40	\$34.67	\$1,386.79
13	CPR LABOR	Track Gang, Foreman	0	\$30.20	\$0.00
14	CPR LABOR	Track Gang, Laborers	0	\$24.95	\$0.00
15	CPR LABOR	Track Welders	0	\$28.94	\$0.00
16		SUBTOTAL CPR DIRECT LABOR:			\$28,455.91
17					
<b>LINE</b>	<b>DESCRIPTION</b>	<b>RAIL SIGNAL SYSTEM LABOR</b>	<b>QTY.</b>	<b>RATE</b>	<b>TOTAL</b>
1	RSS LABOR -3004328	Senior Signal Engineer II	58.42	\$129.54	\$7,568.30
2	RSS LABOR -3004328	Senior Signal Engineer I	48.94	\$129.54	\$6,339.57
4	RSS LABOR -3004331	Project Engineer	55.50	\$86.79	\$4,817.00
5	RSS LABOR -3004338	Project Administrator	0.00	\$58.29	\$0.00
6	RSS LABOR -3004333	Design Checker	42.34	\$69.95	\$2,962.03
7	RSS LABOR -3004334	Signal Circuit Checker	59.91	\$69.95	\$4,190.76
8	RSS LABOR -3004339	Comptroller	48.92	\$77.72	\$3,801.96
9	RSS LABOR -3004347	Billing Clerk	21.00	\$37.57	\$788.97
10		SUBTOTAL RSS DIRECT LABOR:			\$30,468.59
11					

LINE	DESCRIPTION	CANADIAN PACIFIC RAILWAY TRAVEL	QTY.	RATE	TOTAL
1	CPR TRAVEL	Employee Airfare	0	\$0.00	\$0.00
2	CPR TRAVEL	Employee Meals (Per Diem)	78	\$42.00	\$3,276.00
3	CPR TRAVEL	Employee Travel & Lodging (Per Diem)	78	\$60.00	\$4,680.00
4		SUBTOTAL CPR TRAVEL:			\$7,956.00
5					
LINE	DESCRIPTION	CANADIAN PACIFIC RAILWAY EQUIPMENT	QTY.	RATE	TOTAL
1	CPR EQUIPMENT	Truck, Pickup, 1 Ton, Crew Cab			
2	CPR EQUIPMENT	Hourly	80	\$14.38	\$1,150.00
3	CPR EQUIPMENT	Daily	0	\$143.75	\$0.00
4	CPR EQUIPMENT	Weekly	0	\$575.00	\$0.00
5					
6	CPR EQUIPMENT	Truck, Pickup, with Hyrail			
7	CPR EQUIPMENT	Hourly	140	\$17.94	\$2,511.60
8	CPR EQUIPMENT	Daily	0	\$179.40	\$0.00
9	CPR EQUIPMENT	Weekly	0	\$717.60	\$0.00
10					
11	CPR EQUIPMENT	Truck, Diesel, Boom, Telescoping			
12	CPR EQUIPMENT	Hourly	140	\$92.12	\$12,896.10
13	CPR EQUIPMENT	Daily	0	\$921.15	\$0.00
14	CPR EQUIPMENT	Weekly	0	\$3,684.60	\$0.00
15					
16	CPR EQUIPMENT	Backhoe, 4WD, 70 HP			
17	CPR EQUIPMENT	Hourly	140	\$42.21	\$5,908.70
18	CPR EQUIPMENT	Daily	0	\$422.05	\$0.00
19	CPR EQUIPMENT	Weekly	0	\$1,688.20	\$0.00
20					
21	CPR EQUIPMENT	Trailer, Utility, Non-Tilt, 4 Tire			
22	CPR EQUIPMENT	Hourly	140	\$4.72	\$660.10
23	CPR EQUIPMENT	Daily	0	\$47.15	\$0.00
24	CPR EQUIPMENT	Weekly	0	\$188.60	\$0.00
25					
26	CPR EQUIPMENT	Generator, 2400 Watt, 5 HP			
27	CPR EQUIPMENT	Hourly	140	\$1.44	\$201.25
28	CPR EQUIPMENT	Daily	0	\$14.38	\$0.00
29	CPR EQUIPMENT	Weekly	0	\$57.50	\$0.00
30					
31	CPR EQUIPMENT	Grinder, Rail, Portable, On-Track			
32	CPR EQUIPMENT	Hourly	140	\$4.03	\$563.50
33	CPR EQUIPMENT	Daily	0	\$40.25	\$0.00
34	CPR EQUIPMENT	Weekly	0	\$161.00	\$0.00
35					
36	CPR EQUIPMENT	Section Truck, with Hoist and Crane			
37	CPR EQUIPMENT	Hourly	0	\$83.95	\$0.00
38	CPR EQUIPMENT	Daily	0	\$839.50	\$0.00
39	CPR EQUIPMENT	Weekly	0	\$3,358.00	\$0.00
40		SUBTOTAL CPR EQUIPMENT:			\$23,891.25
41					
LINE	DESCRIPTION	OUTSIDE SERVICES EXPENSES	QTY.	UNIT	TOTAL
1	BORING	Boring - Underground	200	\$45.00	\$9,000.00
2	ROCK	Rock, SB2, Fill Dirt	1	\$1,050.00	\$1,050.00
3	ELECTRICAL	AC Meter Service	1	\$3,500.00	\$3,500.00
4	CONTRACTOR	Engineering Check, PE FEE		\$3,750.00	\$0.00
5	CONTRACTOR	Concrete for Cantilever		\$100.00	\$0.00
6	CONTRACTOR	Field Print & Shipping Distribution	2	\$196.20	\$392.40
7	CONTAINERIZATION	Lines 2, 3, 4, 5, 6, 7	1	\$26,153.86	\$26,153.86
8	CPR TRAVEL	Line 4	1	\$7,956.00	\$7,956.00
9	CPR EQUIPMENT	Line 40	1	\$23,891.25	\$23,891.25
10	CONTRACTOR	0	0	\$0.00	\$0.00
10					71,943.51

LINE	100% FUNDING	SUMMARY OF PROJECT TOTAL ESTIMATE	QTY.	SUBTOTAL	TOTAL FUNDING
1		SUBTOTAL MATERIAL:	1	\$197,910.60	\$197,910.60
2		TAXES:	1	6.00%	\$11,874.64
3		SUBTOTAL RSS:	1	\$30,468.59	\$30,468.59
4		RSS PROFIT:	1	12.00%	\$3,656.23
5		SUBTOTAL CPR DIRECT LABOR:	1	\$28,455.91	\$28,455.91
6		CPR DIRECT LABOR ADDITIVES RATE:	1	66.27%	\$18,857.73
7		CPR GENERAL LIABILITY INSURANCE RATE:	1		\$0.00
8		SUBTOTAL CPR TRAVEL, EQUIPMENT & OUTSIDE SERVICES:	1	\$71,943.51	\$71,943.51
9		PROJECT TOTAL:			\$363,167.22