2009-48

Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

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DEC 16 2008

Illinois Commerce Commission
RAIL SAFETY SECTION

December 11, 2008

City of Braidwood
Will County
Section 08-00011-00-RR
Project RRP-8003(878)
Job No. C-91-041-08

X-12833

RE: The installation of LED flashing light signals and gates controlled by CWT circuitry at Center Street (MUN1100) at the Union Pacific Railroad Company tracks in Braidwood
AAR DOT # 290 507T RR MP 57.71

Mr. John Venice
Manager Industry & Public Projects
Union Pacific Railroad Company
301 West Lake Street
Northlake, IL60164

Dear Mr. Venice:

Your copy of the agreement executed by the department on December 4, 2008 is attached. The general layout plans, and estimate of cost in the amount of $188,161.00 have been reviewed and are accepted.

Upon approval of a Form 1 or Form 3 Petition by the Illinois Commerce Commission, you are authorized to proceed with the work called for in the attached agreement. Please contact Mr. Frank Kalisik, Braidwood Municipal Engineer at (815) 458-2333 or Mr. Bruce Gould, Will County Engineer at (815) 727-8476 for proper scheduling of activities.

Please provide us written notice when the project has been placed in service. All bills submitted for payment must be identified with the project, section, and job numbers.

Sincerely,

Charles Ingersoll

Charles Ingersoll, P.E.
Engineer of Local Roads and Streets

cc-
Michael Stead Attn: Rod Bergeron
Frank Kalisik
Bruce Gould
Diane O'Keefe Attn: Christopher Holt
Debbie Marks

City of Braidwood
Will County
Section 08-00011-00-RR
Project RRP-8003(878)
Job No. C-91-041-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
AGREEMENT
for
Local Agency Railway-Highway
Grade Crossing Improvements

THIS AGREEMENT made and entered into by and between the STATE OF ILLINOIS, Acting by and through its Department of Transportation, hereinafter referred to as the "STATE", and the City of Braidwood, State of Illinois, acting by and through its City Council, hereinafter referred to as the "LA" and the Union Pacific Railroad Company, hereinafter referred to as the "COMPANY."

WITNESSETH:

WHEREAS, in the interest of public safety the STATE proposes to improve crossing warning signal devices at the location listed on Exhibit A; and

WHEREAS, the parties mutually agree to accomplish the proposed improvements through the use of Federal and/or State funds which are provided under applicable Federal or State act, law or appropriation.

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

SECTION 1. The project covered under this agreement shall be subject to all applicable Federal laws, rules, regulations, orders and approvals pertaining to all agreements, specifications, award of contracts, acceptance of work and procedure in general. The STATE and the COMPANY shall be governed by the applicable provisions of the Federal-Aid Policy Guide, Part 646, dated December 9, 1991, and any supplements or amendments thereto hereinafter referred to as the "Policy Guide". The "State Required Ethical Standards Governing Contract Procurement" is also attached hereto and made a part of this Agreement.

SECTION 2. The COMPANY shall prepare the general layout plans (including surveys and other engineering services), and detailed estimates of cost. These general layout plans and estimates shall be submitted to the STATE for their approval.

SECTION 3. The completed crossing warning devices shall conform to Part VIII of the 2003 Edition of the National Manual on Uniform Traffic Control Devices (MUTCD), including any amendments which may be contained in the Illinois Supplement to the MUTCD. Barrier systems, such as guardrail and impact attenuators should not be used at railroad grade crossings except in extraordinary circumstances. Approval for the erection of any roadside barrier by the COMPANY must be obtained in writing in advance from the STATE.

SECTION 4. All required installation work at the grade crossing(s) shall be performed by the COMPANY with its own forces or in accordance with 23 CFR, part 646.216. In the event the COMPANY intends to use forces other than its own under a continuing contract or contracts, the COMPANY shall provide the Department with a list of the items of work to be accomplished under such contract or contracts and a list of the name of each contractor whose services will be used to perform the work. Such contracts shall be in compliance with the Civil Rights Act of 1964 and implementing regulations applicable to Federal-Aid Projects as well as the Illinois Fair Employment Practices Act and implementing rules and regulations.

SECTION 5. The COMPANY will not begin to work without written authorization from the STATE to proceed. The COMPANY shall file a form 1 or form 3 Petition of Illinois Administrative Code 1535 with the Illinois Commerce Commission (ICC) showing details of the automatic warning devices herein required, and shall receive approval thereof by X-Resolution before commencing with the installation. Upon receipt of authorization from the STATE and the ICC, the COMPANY shall promptly begin the work set forth in the agreement and shall notify in writing the AGENCIES listed on EXHIBIT A before commencing work.

SECTION 6. The COMPANY, for performance of its work as herein specified, may bill the STATE monthly (in sets of two) for the STATE'S 100% share of the cost of materials purchased,

delivered and stored on the COMPANY'S property but not yet installed. The materials will become the property of the STATE and must be designated for exclusive use on the project designated on EXHIBIT A.

In the event of any loss of material after payment, the COMPANY will replace the material at no cost to the STATE. The storage area of such materials shall be available for STATE inspection upon 24-hour notice. The bill shall be accompanied by a voucher from the material supplier indicating payment by the COMPANY. Payment under this paragraph shall not be claimed for any bill totaling less than $500.

In the event the COMPANY fails to install the stored material within an 18-month period subsequent to payment to the COMPANY, the COMPANY shall promptly deliver the stored material to the STATE at a location indicated in a written notice to the COMPANY. Upon delivery, the STATE shall then take possession of said material for the STATE'S own use. The delivery of the material to the STATE shall in no way serve to terminate this agreement or affect the other provisions of this agreement and in addition shall not affect the COMPANY'S right to claim payment for stockpiled material to replace that taken by the STATE.

SECTION 7. The COMPANY, for performance of its work as herein specified, may bill the STATE monthly (in sets of two) for the STATE'S 100% share of its expense as incurred. These progressive invoices may be rendered on the basis of the estimated percentage of the work completed, plus allowable FHWA approved additives. The STATE after verifying that the bills are reasonable and proper shall promptly reimburse the COMPANY for 100% of the amount billed. Payment under this paragraph shall not be claimed for any bill totaling less than $500. Upon completion of the project, the COMPANY shall provide the STATE with a written notification of the date of completion.The COMPANY, upon completion of its work, shall submit a complete and detailed final bill of all incurred costs to the STATE no later than one year from the date of completion of the project. Otherwise, previous payments to the COMPANY may be considered final, except as agreed to by the STATE and the COMPANY. After the STATE has checked the final statement and agreed with the COMPANY that the costs are reasonable and

proper, insofar as they are able to ascertain, the STATE shall then reimburse the COMPANY an amount, less previous payments, if any, equal to 100% of the amount billed. After the STATE has audited the expenses as incurred by the COMPANY and final inspection of the installation has been made, the STATE shall reimburse the COMPANY for any amount still owed to the COMPANY or bill the COMPANY for any overpayments or items of expense found as not being eligible for reimbursement.

The COMPANY shall maintain, for a minimum of 3 years after the date of the final bill, adequate books, records, and supporting documents to verify the amounts, recipients, and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records, and supporting documents related to the contract, which may be stored on electronic files, shall be available for review and may be audited by the AUDITOR GENERAL. The COMPANY agrees to cooperate fully with any audit conducted by the AUDITOR GENERAL and to provide full access to all relevant materials. Failure to maintain the books, records, and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records, and supporting documentation are not available to support their purported disbursement.

SECTION 8. The crossing warning signal system should be placed in service immediately after the installation is completed. The COMPANY shall notify the STATE in writing of the date of the completed installation. The STATE will perform a final inspection upon receiving the written notification.

SECTION 9. When construction of this project is completed, and so long as State law shall so require, the COMPANY shall maintain at its expense or, by agreement with others, provide for maintenance of the crossing warning signal devices.

SECTION 10. If at any time subsequent to the completion of this improvement, the tracks in the area of the crossing are eliminated for any reason whatsoever, then the said signal system may be removed, relocated and reinstalled at another grade crossing of the COMPANY mutually

designated and agreed to by the parties hereto and subject to the approval of the public authorities having any jurisdiction. The reinstalled signal system shall thereafter be subject to the terms of this agreement.

SECTION 11. In compliance with the Federal-Aid Policy Guide, dated December 9, 1991, Section 646.210, the railroad work as herein contemplated requires no contribution from the COMPANY.

SECTION 12. In the event that delays or difficulties arise in securing necessary federal or state approvals, or in acquiring rights-of way, or in settling damage claims, or for any other cause which in the opinion of the STATE render it impracticable to proceed with the construction of the project, then at any time before construction is started, the STATE may serve formal notice of cancellation upon the COMPANY and this agreement shall thereupon terminate. In the event of cancellation, the STATE shall reimburse the COMPANY for all eligible cost and expense incurred by the COMPANY prior to receipt of notice of cancellation and payment by the STATE.

SECTION 13. The COMPANY, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. The COMPANY shall carry out applicable requirements of 49 CFR part 26 in the award and administration of STATE-assisted contracts. Failure by the COMPANY to carry out these requirements is a material breach of this Agreement, which may result in the termination of this contract or such other remedy as deemed appropriate.

In the event any work at the crossing is performed by other than COMPANY forces, the provisions of "an act regulating wages of laborers, mechanics and other workers employed in public works by the State, County, City or any public body or any political subdivision or by any one under contract for public works" (Illinois Compiled Statutes, 820 ILCS 130/1 et seq.) shall apply.

SECTION 14. The COMPANY certifies that neither it nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U. S. Export Administration Act of 1979 or the regulations of the U. S. Department of Commerce promulgated under that Act.

SECTION 15. This agreement shall be binding upon the parties hereto, their successors or assigns.

SECTION 16. The COMPANY shall complete all work or shall be responsible that all work is completed by other forces within one year of the date of the fully executed agreement. In the event that all work cannot be completed within one year, the COMPANY shall notify the STATE in writing the cause for the delay before the one-year deadline has expired. Otherwise, the STATE will consider petitioning the Illinois Commerce Commission to order the work to be completed.

SECTION 17. At the time this Agreement was executed, there were funds available for the project; however, obligations assumed by the STATE under this Agreement shall cease immediately, without penalty or payment beyond that which the COMPANY has already accumulated, should the Illinois General Assembly or the Federal Highway Administration fail to appropriate or otherwise make available funds for the project.

SECTION 18. The COMPANY certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The COMPANY further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the COMPANY, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be executed in triplicate by their duly authorized officers as of the dates below indicated.

By execution of this agreement and under penalties of perjury, the COMPANY certifies that its correct Federal Taxpayer Identification Number (TIN) is 94-6001323 and the COMPANY is doing business as a corporation.

Executed by the COMPANY this 26th day of September, 2008.

Union Pacific Railroad Company

ATTEST:

Barbara Holder
Assistant Secretary

By: John J. Jovanec
Approved as to Form
ENGINEERING

Executed by the LOCAL AGENCY this 13th day of November, 2008.

City of Braidwood
acting by and through its
City Council

ATTEST:

Carol Richmond
Deputy Clerk

By Sue Grygil

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Milton R. Sees, Secretary of Transportation — Date 12-4-08

Christine M. Reed, Director of Highways/Chief Engineer — Date 12-4-08

ATTACHMENT A

STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCURMENT

The certifications hereinafter made by the COMPANY are each a material representation of fact. The STATE may terminate the agreement if it is later determined that the COMPANY rendered a false or erroneous certification.

Bribery. Section 50-5 of the Illinois Procurement Code provides that: (a) no person or business shall be awarded a contract or subcontract under this Code who: (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.

No business shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business, and: (1) the business has been finally adjudicated not guilty; or (2) the business demonstrates to the governmental entity with which it seeks to contract, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.

For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.

Every bid submitted to and contract executed by the State shall contain a certification by the COMPANY that it is not barred from being awarded a contract or subcontract under this Section. A COMPANY who makes a false statement, material to the certification, commits a Class 3 felony. The COMPANY certifies that it is not barred from being awarded a contract under Section 50-5.

Educational Loan. The Educational Loan Default Act provides that no State agency shall contract with an individual for goods or services if that individual is in default, as defined by Section 2 of this Act, on an educational loan. Any contract used by a State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.

Bid Rigging/Bid Rotating. Section 33E-11 of the Criminal Code of 1961 provides: (a) that every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the COMPANY that it is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of the Code. The state and units of local government shall provide appropriate forms for such certification.

A COMPANY that makes a false statement, material to the certification, commits a Class 3 felony.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation, and: (1) it has been finally adjudicated not guilty, or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer, or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty, or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer, or a high managerial agent in behalf of the corporation.

The COMPANY certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

International Anti-Boycott. Section 5 of the International Anti-Boycott Certification Act provides that every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or $10,000, whichever is less, shall contain certification, as a material condition of the contract, by which the COMPANY agrees that neither it nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act. The COMPANY makes the certification set forth in Section 5 of the Act.

Drug Free Workplace. The Illinois Drug Free Workplace Act applies to this contract and it is necessary to comply with the provisions of the Act if the COMPANY is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.

The COMPANY certifies that if awarded a contract in excess of $5,000 it will provide a drug free workplace by: (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance,

including cannabis, is prohibited in the COMPANY's workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction; (b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the COMPANY's policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations; (c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace; (d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace; (e) Imposing or requiring, within thirty (30) days after receiving such notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance program approved by a federal, state, or local health, law enforcement, or other appropriate agency; (f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place; (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

Delinquent Payment. The COMPANY certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency if it, or any affiliate, has failed to collect and remit Illinois Use tax on all sales of tangible property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The COMPANY further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the COMPANY, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

Felony Convictions. The COMPANY certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or of a Class 3 or Class 2 felony under the Illinois Security Law of 1953 for a period of five years prior to the date of the AGREEMENT. The COMPANY acknowledges that the DEPARTMENT shall declare the contract void if this certification is false.

Environmental Protection Act. The COMPANY certifies in accordance with 30 ILCS 500/50-12 that the COMPANY is not barred from being awarded a contract under this Section. The COMPANY acknowledges that the DEPARTMENT may declare the contract void if this certification is false.

City of Braidwood
Will County
Section No. 08-00011-00-RR
Project No. RRP-8003(878)
Job No. C-91-041-08

EXHIBIT A

CROSSING IDENTIFICATION:

Railroad: Union Pacific Railroad Company

RR M.P.: 57.71 AAR DOT # 290 507T

Road Name: Center Street (MUN1100)

Location: Center Street (MUN1100) @UP Railroad, in Braidwood, Illinois

EXISTING CONDITIONS:

One mainline track equipped with flashing light signals

DESCRIPTION OF WORK TO BE DONE BY RAILROAD:

1. Remove existing flashing light signals.
2. Install new flashing signals and gates.
3. Incidental work necessary to complete the items hereinabove specified.

DESCRIPTION OF WORK TO BE DONE BY OTHERS:

Local Agency agrees to provide at its expense any necessary advance warning signs and pavement markings as required by the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. When a marked traffic detour is required, the Local Agency at its expense shall furnish, erect, maintain and remove the traffic control devices necessary to detour highway traffic.

ATTACHMENTS:

State Required Ethical Standards Governing Contract Procurement
Location Map

ESTIMATED RAILROAD COST: $ 188,161 00

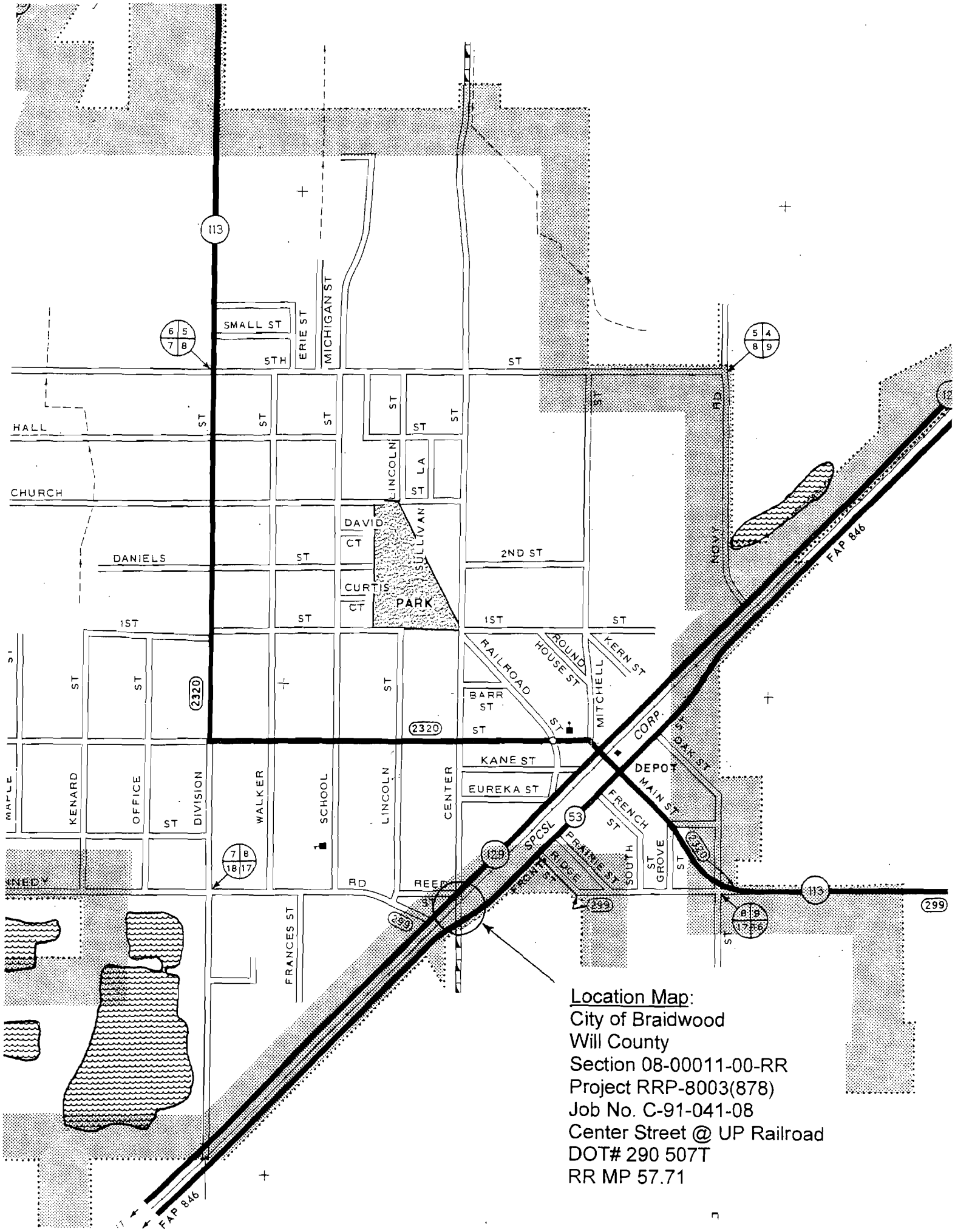
100% Federal participation $ 188,161 00

AGENCIES TO BE NOTIFIED BEFORE COMMENCING WORK:

Mr. Frank Kalisik, Municipal Engineer, 141 W. Main St., P.O. Box 758, Braidwood, IL 60408
(815) 458-2333

SUBMIT ALL BILLS FOR THE STATE'S 100% SHARE TO:

Charles Ingersoll, P. E.
Engineer of Local Roads and Streets
2300 South Dirksen Parkway
Springfield, Illinois 62764



Location Map:
City of Braidwood
Will County
Section 08-00011-00-RR
Project RRP-8003(878)
Job No. C-91-041-08
Center Street @ UP Railroad
DOT# 290 507T
RR MP 57.71

DATE: 2008-07-05

ESTIMATE OF MATERIAL AND FORCE ACCOUNT WORK
BY THE
UNION PACIFIC RAILROAD

THIS ESTIMATE GOOD FOR 6 MONTHS EXPIRATION DATE IS :2009-01-05

DESCRIPTION OF WORK:
INSTALL LED FL SIGNALS W/GATES AND CWT IN NEW CABIN AT CENTER STREET IN
BRAIDWOOD, IL. M.P. 57.71 ON THE JOLIET SUB.
FEDERAL ADDITIVES 105.61%
RAILROAD TO PERFORM ALL WORK / COST DISTRIBUTED AS FOLLOWS:
SIGNAL - FEDERAL GOVERNMENT 100%

PID: 61189 AWO: 87048 MP,SUBDIV: 57.71, JOLIET
SERVICE UNIT: 04 CITY: BRAIDWOOD STATE: IL

DESCRIPTION	QTY	UNIT	LABOR	MATERIAL	RECOLL	UPRR	TOTAL
ENGINEERING WORK							
ENGINEERING			3236		3236		3236
LABOR ADDITIVE 105.61%			8449		8449		8449
SIG-HWY XNG			4765		4765		4765
TOTAL ENGINEERING			16450		16450		16450
SIGNAL WORK							
BILL PREP			900		900		900
CONTRACT				6784	6784		6784
EARTH FILL/ROCK				4000	4000		4000
LABOR ADDITIVE 105.61%			28195		28195		28195
METER SERVICE				1000	1000		1000
PERSONAL EXPENSES				19687	19687		19687
RETAINING WALL				2500	2500		2500
SALES TAX				3351	3351		3351
SIGNAL			26697	53630	80327		80327
TRANSPORTATION CHARGES				3432	3432		3432
CONTINGENCIES				17105	17105		17105
WZ TRAFFIC CONTROL				4430	4430		4430
TOTAL SIGNAL			55792	115919	171711		171711
LABOR/MATERIAL EXPENSE			72242	115919			
RECOLLECTIBLE/UPRR EXPENSE					188161	0	
ESTIMATED PROJECT COST							188161
EXISTING REUSEABLE MATERIAL CREDIT					0		
SALVAGE NONUSEABLE MATERIAL CREDIT					0		
RECOLLECTIBLE LESS CREDITS							

THE ABOVE FIGURES ARE ESTIMATES ONLY AND SUBJECT TO FLUCTUATION. IN THE EVENT OF AN INCREASE OR DECREASE IN THE COST OR QUANTITY OF MATERIAL OR LABOR REQUIRED, UPRR WILL BILL FOR ACTUAL CONSTRUCTION COSTS AT THE CURRENT EFFECTIVE RATE.

WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PROJ NO: 61189
A.W.O. NO: 87048
W.O. NO:
B.I. NO: 08EN10
STATE: IL
VAL SEC: 1101Z

RAILROAD: UPRR CO.
LOCATION: BRAIDWOOD,IL,CENTER STREET
DEPARTMENT: ENGINEERING SERVICES

STOCK MATERIAL PLAN

ITEM NUMBER	ITEM DESCRIPTION	UNIT COST	QTY	UM	DIRECT MATL $
02040420	BATTERY,GNB, 50A13, 318 AH.	173.96	6	EA	1044
02040660	BATTERY,GNB, 50A27, 687 AH.	306.90	7	EA	2148
09010870	CABLE SPLICING KIT, N-3	45.71	2	EA	91
09011240	CABLE TIE, NYLON 1 1/8" MAX. DIA	0.02	200	EA	4
09011980	CABLE TIE, NYLON 3 1/2" MAX. DIA	0.12	20	EA	2
09014950	CIRCUIT BRKR,120/240V 20A 2 POLE	14.60	1	EA	15
09015690	CIRCUIT BREAKER, 120/240V 30A AC	5.97	1	EA	6
09054360	RELAY, GEN.PURPOSE 120V. TAB 856	4.67	1	EA	5
09057650	SOCKET,P-B 27E122 TAB 836A & 856	2.07	1	EA	2
09065700	TAPE, ELECTRICAL PLASTIC	2.51	2	RL	5
09066900	TERMINAL,SPADE,10-12 WIRE,#8 STUD	0.15	10	EA	2
09137100	TERM.LUG 3/16 CABLE-1/4 POST 2412	0.55	30	EA	17
09215100	33466 TERMINAL, RING TONGUE AMP	0.19	44	EA	8
09224750	216-107 TERMINAL,FERRULE,FOR #10	0.06	20	EA	1
09224800	216-104 TERMINAL, FERRULE, W	0.02	50	EA	1
09260350	TERMINAL,#16-14 #8 SPADE	0.07	35	EA	2
09261420	321524-1 TERMINAL,TEST 16-22 A	1.61	4	EA	6
09261570	321527-1 TERMINAL, TEST	1.62	15	EA	24
09401140	ADAPTER, 4 INCH CARLON PLASTIC	3.28	2	EA	7
09409820	BUSHING, 4" PLASTIC,INSULATING	0.82	2	EA	2
09424920	CONDUIT, 4", PVC, TYPE 40	2.13	60	LF	128
09467930	LOCKNUT, 4 INCH, GALVANIZED	5.19	2	EA	10
09844170	GROUND ROD, 5/8 INCH X 8 FEET	7.34	9	EA	66
09846750	GRND.ROD CONN. 4WAY ONESHOT.	5.04	9	EA	45
09908640	WIRE,#6 AWG.1 COND.COPPER,SOLID	0.42	225	LF	95
09912200	WIRE #6 AWG 2 CND 500'ROLL SHIELD	1.72	500	LF	860
09913200	WIRE,#6, 5 COND 500'ROLL SHIELDED	3.17	500	LF	1585
09915610	WIRE #6 AWG 1 COND COPPER, STRAN	0.52	220	LF	114
09930550	WIRE #10 AWG 1 COND COPPER, STRAN	0.21	700	LF	147
09932310	WIRE #10 AWG 1 COND COPPER, TWIST	0.46	250	LF	115
09946100	WIRE #14, 7 CND 500' ROLL SHIELDE	1.38	500	LF	690
09946730	WIRE #14 AWG 12 COND SHIELDED	2.14	300	LF	642
09960090	WIRE #16 AWG 1 COND COPPER, STRAN	0.10	300	LF	30
09976180	WIRE,#22,TW.PR. BELDEN #8761	0.11	20	LF	2
13547870	SHEET METAL SCREW, #10 X 1 INCH	3.36	1	BX	3
13552450	SHEET METAL SCREW,#12 X 3/4"	2.09	2	BX	4
13553150	SHEET METAL SCREW #12 X 1"	3.04	2	BX	6
17061400	PADLOCK,SIGNAL,WITHOUT KEY,AMERIC	14.87	6	EA	89
28033210	CARTON, 39 1/8"L X 23 1/4"W X 17	5.48	1	EA	5
28033230	CARTON, 47 3/8"L X 39 1/2"W X 18"	11.07	1	EA	11

WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PROJ NO: 61189
A.W.O. NO: 87048
W.O. NO:
B.I. NO: 08EN10
STATE: IL
VAL SEC: 1101Z

RAILROAD: UPRR CO.
LOCATION: BRAIDWOOD,IL,CENTER STREET
DEPARTMENT: ENGINEERING SERVICES

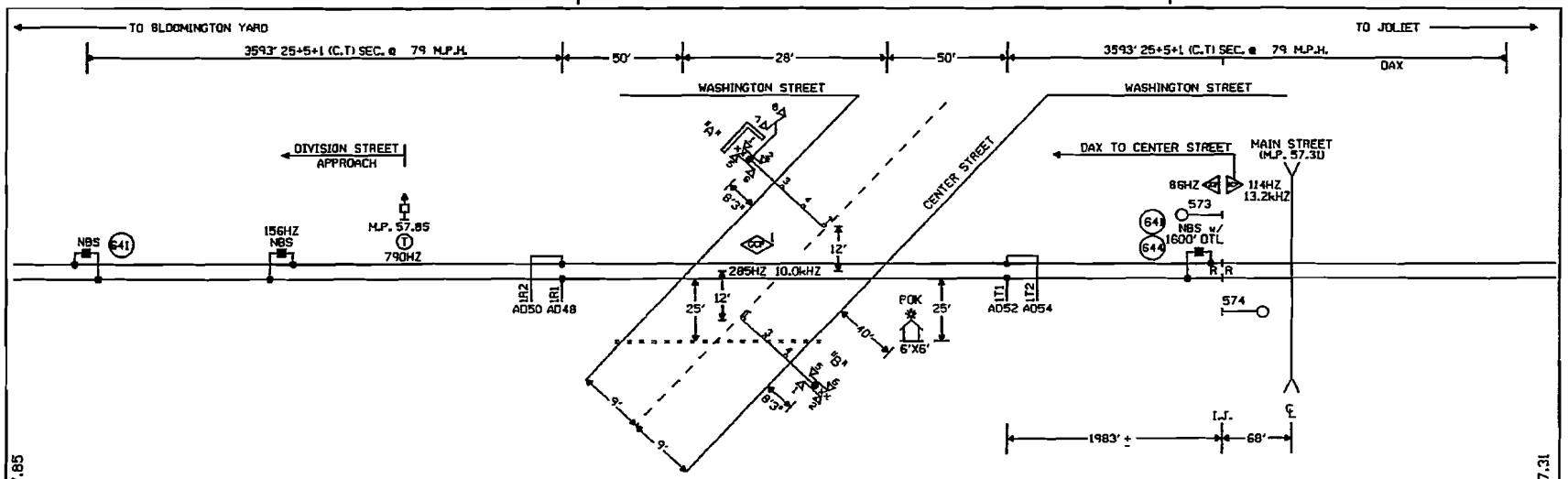
28041880	PALLET, 48 X 40 INCH 2/WAY	8.68	2	EA	17
35040020	PLASTER OF PARIS, #DAP 10308	2.79	4	BX	11
39340220	SIGN, HIGHWAY CROSSING	50.00	2	EA	100
52001370	SURGE PROTECTOR SP20-2A TAB 585	71.69	2	EA	143
52003630	POWER CABLE, CABIN TO GENERATOR -	148.20	1	EA	148
52005700	BOND WIRE,7 STRANDS 100 LF. ROLL	0.76	300	LF	228
52016830	WIRE DUCT, 2X3	8.44	11	EA	93
52016940	WIRE DUCT, 3X3	9.82	1	EA	10
52017510	WIRE DUCT COVER 2"X6'	1.84	11	EA	20
52017620	WIRE DUCT COVER 3"X6'	2.71	1	EA	3
52019530	ENCLOSURE,SHUNT,POLE MOUNTED.24X2	169.87	2	EA	340
52019560	EQUALIZER, H.D. TAB 583	9.13	14	EA	128
52021550	FOUNDATION,4',STEEL,FOR FLSHR/GAT	322.40	2	EA	645
52025240	HOUSE, 6X6, SIGNAL XING	5275.47	1	EA	5275
52027350	CLIP BOARD - FOR SIGNAL PRINTS	8.02	1	EA	8
52027430	STEP BOX	16.25	1	EA	16
52028420	LIGHTNING ARRESTOR,CLR-COMM TAB 3	6.90	40	EA	276
52029780	LIGHTNING ARR,HD TAB 582 W/O BASE	9.81	4	EA	39
52030010	LIGHTNING ARRESTOR CONN.STRIP	3.93	4	EA	16
52039210	RECTIFIER,20EC,12V.TAB575	273.99	1	EA	274
52039390	RECTIFIER, 40EC, 12V. TAB577	370.04	1	EA	370
52042650	POST, MOUNTING, FOR SHUNT HOUSING	16.98	4	EA	68
52068650	TERMINAL, #6 - 5 WIRE - RING TYPE	0.16	55	EA	9
52070010	TERMINAL,#12-10 WIRE,RING TONGUE	0.13	300	EA	39
52071600	TERMINAL,#20-16 WIRE,RING TONGUE	0.07	150	EA	11
52072280	TERMINAL BLOCK, SIGNAL 2 POST BAK	3.74	22	EA	82
52072740	TERMINAL BLOCK, SIGNAL 12 POST 6	15.83	1	EA	16
52072960	TERMINAL BLOCK, SIGNAL 12 POST	12.70	12	EA	152
52074550	TEST LINK, INSULATED ASSEMBLY TAB	0.83	34	EA	28
52074660	SWITCH, MCKEEN TAB 82	13.90	1	EA	14
52079550	WIRE TAG, PLASTIC - WHITE	0.13	100	EA	13
52079560	MARKING PEN(FOR WHITE TAG)	1.95	1	EA	2
52108120	LED FL/GATE ASSY.2 WAY LIGHTS	7321.95	1	EA	7322
52108180	LED-FL/GATE ASSY.2WMM1W45FR	8145.67	1	EA	8146
52109370	GATE ARM, ADJ.16-32'	469.35	2	EA	939
52122140	HIGH WIND BRACKET 5"OR 4"	63.99	2	EA	128
52136470	SHEAR PIN, SK-1000-1	5.50	2	EA	11
52204220	DUMMY LOAD, 1600 FT. TAB 644	37.51	1	EA	38
52207100	GRDXNG PRDTR GCP4000 2TK.MAX W/SE	15620.63	1	EA	15621
52258590	NBS, TAB 641, 62775-1543	399.00	2	EA	798
52263600	SURGE ARRESTOR,METER LOOP.	28.46	1	EA	28
52264040	SURGE PANEL - TAB 618	190.70	1	EA	191
52276150	SS XING CONTROLLER MODULE FOR GCP	1649.80	2	EA	3300
53648010	INSULATING CAP & SHIELD ASSY.	2.23	4	EA	9
53903460	EPD 120/240TDFL SURGE PROTECTOR	268.17	1	EA	268
53954500	180429-000 BOOTLEG KIT	49.37	4	EA	197

WORK ORDER AUTHORIZATION-DETAIL OF ESTIMATED EXPENDITURES

PROJ NO: 61189
A.W.O. NO: 87048
W.O. NO:
B.I. NO: 08EN10
STATE: IL
VAL SEC: 1101Z

RAILROAD: UPRR CO.
LOCATION: BRAIDWOOD,IL,CENTER STREET
DEPARTMENT: ENGINEERING SERVICES

TOTAL	53,629



CONSTRUCTION NOTES:

1. INSTALL IN CONJUNCTION WITH CROSSING WORK AT MAIN STREET (M.P. 57.31) W.O. 83889.

NOTES:

⊗ = TWISTED WIRES INSULATED 1 TWIST PER FT. ALL TRACK WIRES 2C. #6

TRANSMITTER AND RECEIVER LEADS TO BE SEPARATED BY AT LEAST 12" IN TRENCH. LENGTHS SHOULD NOT EXCEED MANUFACTURES RECOMMENDATION.

TOP OF FOUNDATION TO BE AT SAME ELEVATION AS THE SURFACE OF THE TRAVELED WAY & NO MORE THAN 4" ABOVE THE SURFACE OF THE GROUND.

ALL BUNGALOW WIRING TO BE #16 AWG FLEX UNLESS OTHERWISE SPECIFIED EXCEPT ALL GROUND WIRE TO BE #6 AWG FLEX OR LARGER.

ALL WIRING IN GATE MECHANISM TO BE #10 "AWG FLEX".

REFER TO UP STANDARD DWG FOR BUNGALOW GROUNDING.

ALL LIGHTS TO BE 12" ROUNDELS.

= = = = = = 4" X 40' CONDUIT

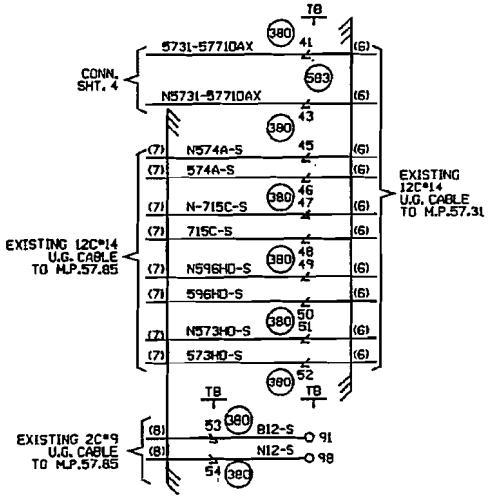
LIGHTS: LED LIGHTS

GATE A: L7'
GATE B: L7'

xx = BELL

CRTU MICROBURST

= RETAINING WALL



CABLE TABULATION

CABLE #6 12C#14 U.G.B.T. HOUSE TO MP. 57.31
CABLE #7 7C#14 U.G.B.T. HOUSE TO MP. 57.85
CABLE #8 2C#9 U.G.B.T. HOUSE TO MP. 57.85

W(S) ←—○—→ E(N)

NEW SHEET

BRAIDWOOD, ILLINOIS
CENTER STREET
M.P. 57.71
JOLIET SUBDIVISION
D.O.T.#290 507T

03-07-08 INSTALL FLASHERS AND GATES WITH CWT AT M.P. 57.31 AFE 87048 SSC/JJF	MODIFICATION LEVEL		UNION PACIFIC	DES: SSC	UNION PACIFIC RAILROAD	DATE 03-07-08
	O.A. LAST LEVEL CHECKED	00		DIG: SSC	JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS A.B.S. CIRCUITS	SHEET L
	LAST LEVEL MOD THIS TYPICAL	00		CHK:		DWG 57.71
	LAST LEVEL BY DESIGNER	00		A.F.E. 87048		CSL RTE
	CHANGED FROM TYPICAL?	Y	SIGNAL DESIGN	ID: CSL5771.LX	Office of Sr.AVP Engineering - Signal/TCO Omaha, Nebraska	