



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

2008-359

**ORIGINAL**

**RECEIVED**  
JAN 26 2009

January 23, 2009

City of Chicago  
Cook County  
Section 08-X0008-00-SP  
Project RRP-6000(279)  
Job No. C-91-150-09

X-12680

Illinois Commerce Commission  
RAIL SAFETY SECTION

RE: Paulina Street (AAR DOT #608 852M, RR MP 11.04)  
Throop Street (AAR DOT #608 917D, RR MP 10.52)  
Lafin Street (AAR DOT #608 854B, RR MP 10.77)  
Loomis Street (AAR DOT #608 855H, RR MP 10.65)  
80<sup>th</sup> Place (AAR DOT #289 562W, RR MP 11.57)  
81<sup>st</sup> Street (AAR DOT #289 563D, RR MP 11.63)

Mr. Tony Ognibene  
Metra  
Law Department  
547 W. Jackson Blvd., 15<sup>th</sup> Floor  
Chicago, IL 60661

Dear Mr. Ognibene:

Your copy of the agreement executed by the department on January 22, 2009 is attached. The general layout plans, and estimate of cost in the amount of \$164,559.00 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. Bruce Worthington, Chicago Chief Highway Engineer at (312) 744-3521 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,

Darrell W. Lewis, P.E.  
Acting Engineer of Local Roads and Streets

cc-  
William Kaminski  
Bruce Worthington, Chief Highway Engineer  
Michael Stead Attn: Rod Bergeron  
Diane O'Keefe Attn: Christopher Holt  
Debbie Marks  
Stan Milewski

**DOCKETED**

City of Chicago  
Cook County  
Section 08-X0008-00-SP  
Project RRP-6000(279)  
Job No. C-91-150-09

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

THIS AGREEMENT is made and entered into between the STATE OF ILLINOIS, acting by and through its Department of Transportation, hereinafter referred to as the "STATE", and the NORTHEAST ILLINOIS REGIONAL COMMUTER RAILROAD CORPORATION AND THE COMMUTER RAIL DIVISION OF THE REGIONAL TRANSPORTATION AUTHORITY, a division of a municipal corporation, hereinafter referred to as "METRA."

WITNESSETH:

WHEREAS, in the interest of public safety the STATE proposes to improve grade crossing warning signal devices at the six locations 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 METRA 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. METRA 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 METRA 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 METRA with its own forces or in accordance with 23 CFR, part 646.216. In the event METRA intends to use forces other than its own under a continuing contract or contracts, METRA 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. METRA will not begin to work without written authorization from the STATE to proceed. METRA 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, METRA 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. METRA, 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 METRA'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, METRA 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 METRA. Payment under this paragraph shall not be claimed for any bill totaling less than \$500.

In the event METRA fails to install the stored material within an 18-month period subsequent to payment to METRA, METRA shall promptly deliver the stored material to the STATE at a location indicated in a written notice to METRA. 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 METRA'S right to claim payment for stockpiled material to replace that taken by the STATE.

SECTION 7. METRA, 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 METRA 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, METRA shall provide the STATE with a written notification of the date of completion. METRA, 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 METRA may be considered final, except as agreed to by the STATE and METRA. After the STATE has checked the final statement and agreed with METRA that the costs are reasonable and proper, insofar as they are able to ascertain, the STATE shall then reimburse METRA an amount, less previous payments, if any, equal to 100%

of the amount billed. After the STATE has audited the expenses as incurred by METRA and final inspection of the installation has been made, the STATE shall reimburse METRA for any amount still owed to METRA or bill METRA for any overpayments or items of expense found as not being eligible for reimbursement.

METRA 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. METRA 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.

The STATE agrees to reimburse METRA for METRA'S costs relating to the preparation of plans and estimates and related preliminary engineering done for this project prior to the execution of this agreement; however costs incurred and work performed prior to the date of authorization by the Federal Highway Administration will not be eligible for reimbursement.

SECTION 8. The crossing warning signal system should be placed in service immediately after the installation is completed. METRA 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, METRA shall maintain at its expense or, by agreement with others, provide for maintenance of the crossing warning signal devices.

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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 METRA 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 METRA.

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 METRA and this agreement shall thereupon terminate. In the event of cancellation, the STATE shall reimburse METRA for all eligible cost and expense incurred by METRA prior to receipt of notice of cancellation and payment by the STATE.

SECTION 13. METRA, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. METRA shall carry out applicable requirements of 49 CFR part 26 in the award and administration of STATE-assisted contracts. Failure by METRA 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 METRA 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.

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SECTION 14. METRA 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. METRA 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, METRA 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 METRA 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. METRA 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. METRA further acknowledges that the contracting State agency may declare the contract void if this certification is false or if METRA, 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 duplicate by their duly authorized officers as of the dates below indicated.

By execution of this Agreement and under penalties of perjury, METRA certifies that its correct Federal Taxpayer Identification Number (TIN) is 36-3126147 and is doing business as a governmental entity.

Executed by METRA this 12<sup>th</sup>  
day of January, 2009.

COMMUTER RAIL DIVISION OF THE  
REGIONAL TRANSPORTATION  
AUTHORITY, NORTHEAST ILLINOIS  
REGIONAL COMMUTER RAILROAD  
CORPORATION, a division of a  
municipal corporation,

ATTEST:

Debra M. Ellison

By: [Signature]

**APPROVED**

State of Illinois, Department of Transportation

Milton R. Sees

Milton R. Sees, Secretary of Transportation

Eric E. Harm

1-22-09

BY: Eric E. Harm, Deputy Director of Highways

Date

Christine M. Reed

Christine M. Reed, Director of Highways, Chief Engineer

## ATTACHMENT A

### STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCUREMENT

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.

EXHIBIT A

CROSSING IDENTIFICATION:

Railroad: METRA

Location: Paulina Street	RR M.P.: 11.04	AAR DOT # 608 852M
Throop Street	RR M.P.: 10.52	AAR DOT # 608 917D
Lafin Street	RR M.P.: 10.77	AAR DOT # 608 854B
Loomis Street	RR M.P.: 10.65	AAR DOT # 608 855H
80th Place	RR M.P.: 11.57	AAR DOT # 289 562W
81st Street	RR M.P.: 11.63	AAR DOT # 289 563D

EXISTING CONDITIONS:

Two mainline tracks protected by flashing light signals and gates at the Paulina St., Throop St., Loomis St., and Lafin St. locations. One mainline track protected by flashing light signals and gates at the 80<sup>th</sup> Place and 81<sup>st</sup> Street locations.

DESCRIPTION OF WORK TO BE DONE BY RAILROAD:

1. Install one additional set of flashing light signals and bell, pursuant to ICC request.
2. 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:

METRA's Estimate of Cost

ESTIMATED RAILROAD COST: \$ 164,559.00

100% Federal participation \$ 164,559.00

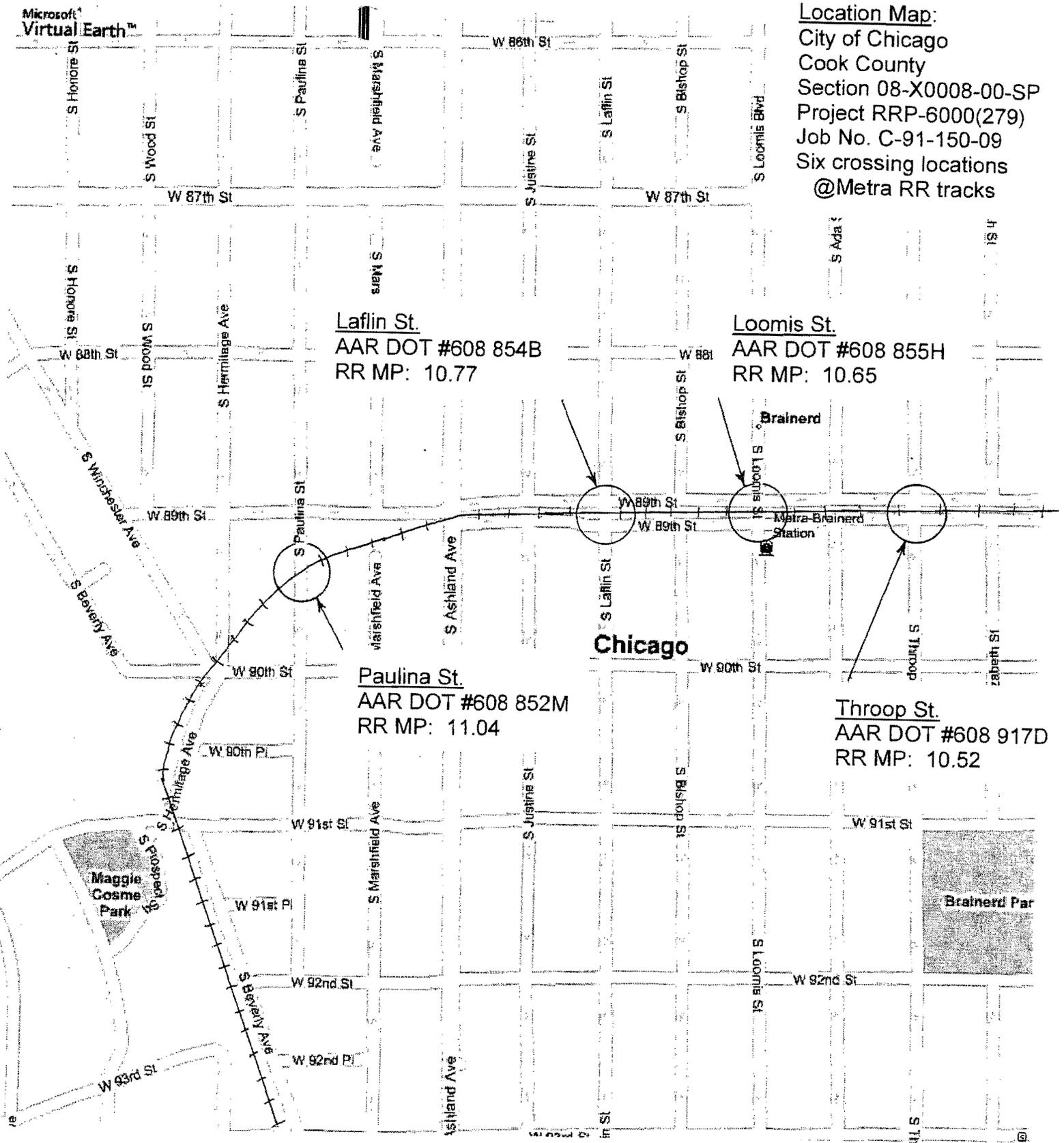
AGENCIES TO BE NOTIFIED BEFORE COMMENCING WORK:

Mr. Bruce Worthington, Chief Highway Engineer,  
30 North LaSalle Street, Room 400, Chicago, IL 60602 (telephone (312) 744-3521)

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 Chicago  
Cook County  
Section 08-X0008-00-SP  
Project RRP-6000(279)  
Job No. C-91-150-09  
Six crossing locations  
@Metra RR tracks



Laffin St.  
AAR DOT #608 854B  
RR MP: 10.77

Loomis St.  
AAR DOT #608 855H  
RR MP: 10.65

Paulina St.  
AAR DOT #608 852M  
RR MP: 11.04

Throop St.  
AAR DOT #608 917D  
RR MP: 10.52

Chicago

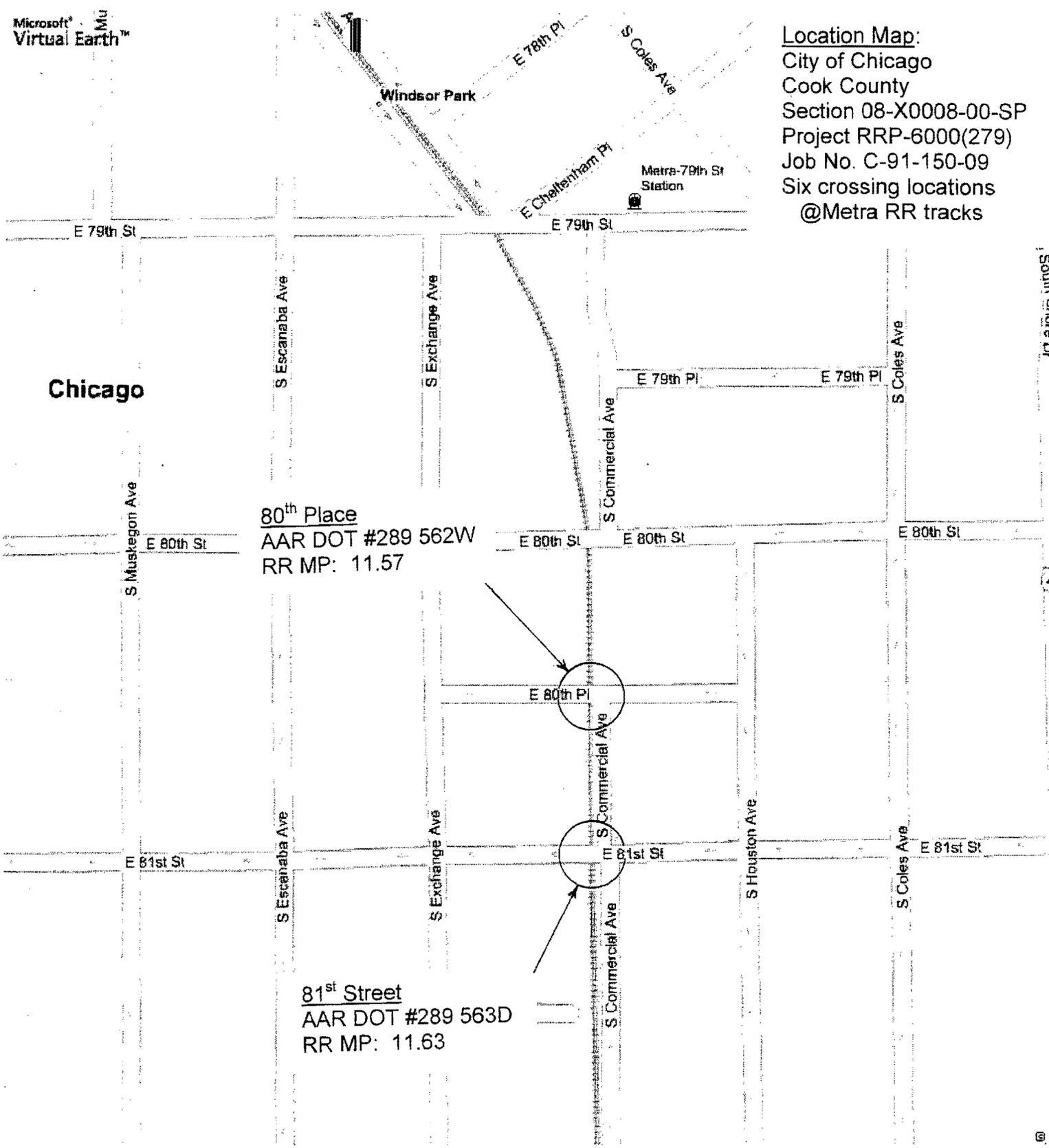
Brainerd

Metra-Brainerd Station

Maggie Cosme Park

Brainerd Park

Location Map:  
City of Chicago  
Cook County  
Section 08-X0008-00-SP  
Project RRP-6000(279)  
Job No. C-91-150-09  
Six crossing locations  
@Metra RR tracks



Chicago

Windsor Park

Metra-79th St  
Station

80<sup>th</sup> Place  
AAR DOT #289 562W  
RR MP: 11.57

81<sup>st</sup> Street  
AAR DOT #289 563D  
RR MP: 11.63

## METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

DISTRICT: RI/S  
 PROJ. LOCATION: PAULINA STREET  
 PROJ. DESCRIPTION: INSTALL AFLS PER ICC  
 PROJECT NUMBER:  
 OVERALL WORK LIMITS:

MATERIAL - Inventory				\$ EACH	\$ EXTEND
06-13750-9	BELL LOUD 5" 12 VDC TOP MAST	EA	1	319.00	319
06-94222-1	CABLE UG 7/C#9	FT	500	3.55	1775
06-92302-3	FOUNDATION CONCRT F/FLASHER	EA	1	315.00	315
06-13050-4	LIGHT FLSH COMPL 4-12" 5"MST	EA	1	1800.00	1800
42-68075-1	PIPE PVC 4" SCHD80 20 FEET	EA	6	40.00	240
00-00000-0	TAPE TAGS AND TERMINALS	LOT	1	400.00	400
06-94020-9	WIRE CASE FLEX NO.10	FT	50	0.40	20
- MATERIAL SUB-TOTAL					4869
- TRANSP/HAND ( 5.00 %)					243
- MATERIAL TOTAL					5112

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

PROJ. LOCATION: PAULINA STREET

DIRECT LABOR	ST HOURS	ST RATE	OT HOURS	OT RATE	
SIGNAL FOREMAN	56	32.85	0	49.27	
LEAD SIGNALMAN	56	25.96	0	38.94	
SIGNALMAN	224	25.67	0	38.51	
MAINTAINER	56	32.51	0	48.77	
		-----		-----	
		10864.00		0.00	\$10,864
WIRING COST	0				\$0
LABOR ADDITIVES ( 71.66%)					\$7,785
ENGINEERING	0	\$35.00			\$0
ENGINEERING ADDITIVES (70.15%)					\$0
OTHER LABOR TOTAL					\$0

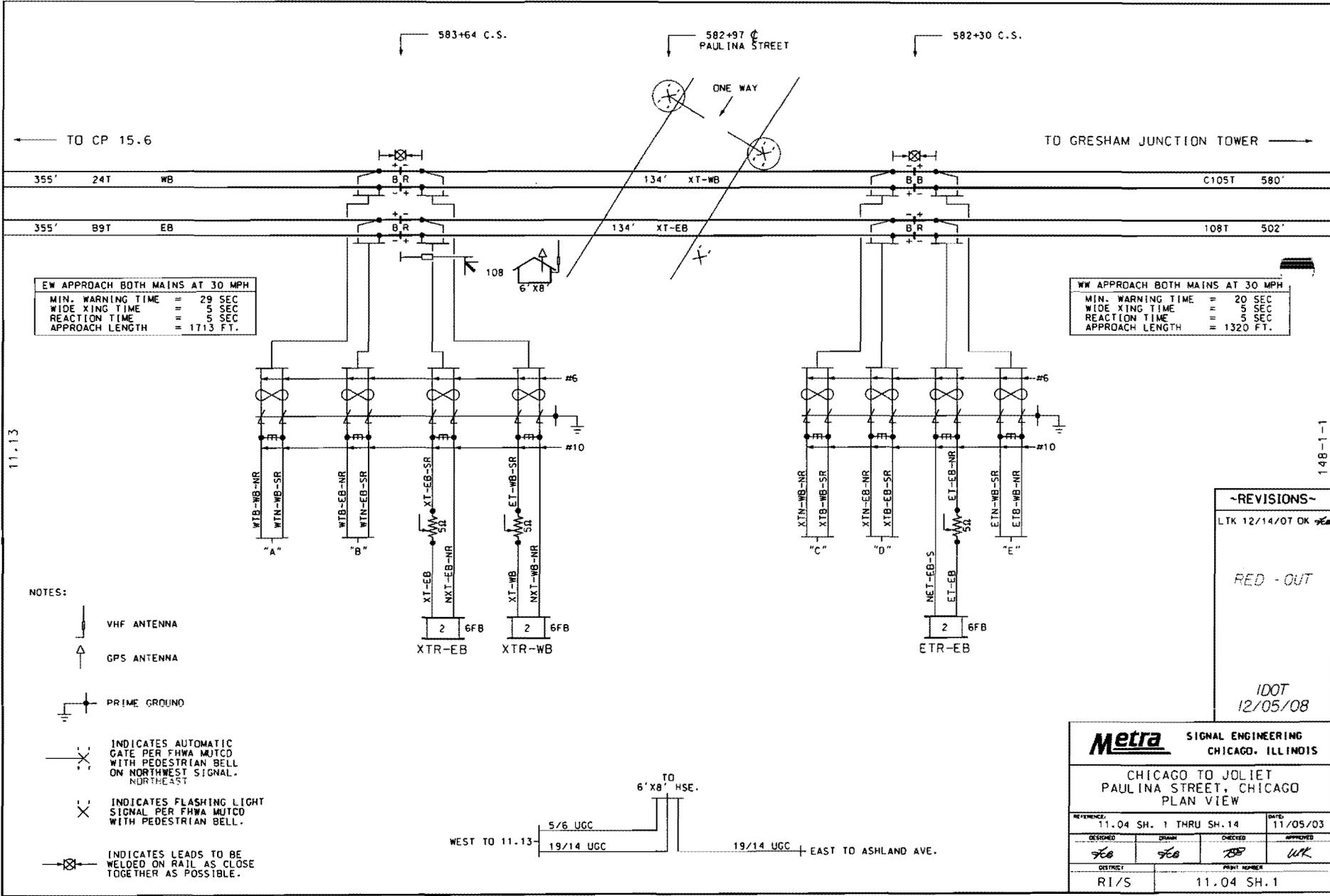
LABOR TOTAL \$18,649

EQUIPMENT/VEHICLES	UNITS	COST EA.	DAYS	
PICKUP TRUCK	1	\$30	7	\$212
CREW TRUCK/CRANE	1	\$214	7	\$1,501
BACKHOE/TRENCHER	1	\$107	7	\$747
SUPV.AUTO	1	\$54	0	\$0
EQUIPMENT AND VEHICLES TOTAL				\$2,460

TOTAL ABOVE ACCOUNTS \$26,221  
 CONTINGENCIES (10.00%) \$2,622

Project TOTAL \$28,843

EST ID: C:\EST16\ROCK\_ISL\BEVERLY\PAULINA2.EST:FCB



EW APPROACH BOTH MAINS AT 30 MPH

MIN. WARNING TIME	=	29 SEC
WIDE XING TIME	=	5 SEC
REACTION TIME	=	5 SEC
APPROACH LENGTH	=	1713 FT.

WW APPROACH BOTH MAINS AT 30 MPH

MIN. WARNING TIME	=	20 SEC
WIDE XING TIME	=	5 SEC
REACTION TIME	=	5 SEC
APPROACH LENGTH	=	1320 FT.

- NOTES:
- VHF ANTENNA
  - GPS ANTENNA
  - PRIME GROUND

- INDICATES AUTOMATIC GATE PER FHWA MUTCO WITH PEDESTRIAN BELL ON NORTHWEST SIGNAL. NORTHEAST
- INDICATES FLASHING LIGHT SIGNAL PER FHWA MUTCO WITH PEDESTRIAN BELL.
- INDICATES LEADS TO BE WELDED ON RAIL AS CLOSE TOGETHER AS POSSIBLE.

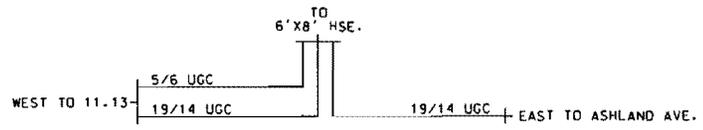
~REVISIONS~

LTK	12/14/07	OK	<i>fo</i>
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RED - OUT

1DOT  
12/05/08

<b>Metra</b> SIGNAL ENGINEERING CHICAGO, ILLINOIS	
CHICAGO TO JOLIET PAULINA STREET, CHICAGO PLAN VIEW	
REFERENCE: 11.04 SH. 1 THRU SH. 14	DATE: 11/05/03
DESIGNED: <i>fo</i>	DRAWN: <i>fo</i>
CHECKED: <i>fo</i>	APPROVED: <i>WR</i>
DISTRICT: RI/S	POINT NUMBER: 11.04 SH. 1



11.13

14B-1-1

## METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

DISTRICT: RI/S  
 PROJ. LOCATION: THROOP STREET  
 PROJ. DESCRIPTION: INSTALL AFLS PER ICC  
 PROJECT NUMBER:  
 OVERALL WORK LIMITS:

MATERIAL - Inventory				\$ EACH	\$ EXTEND
06-13750-9	BELL LOUD 5" 12 VDC TOP MAST	EA	1	319.00	319
06-94222-1	CABLE UG 7/C#9	FT	200	3.55	710
06-92302-3	FOUNDATION CONCRT F/FLASHER	EA	1	315.00	315
06-13050-4	LIGHT FLSH COMPL 4-12" 5"MST	EA	1	1800.00	1800
00-00000-0	TAPE TAGS AND TERMINALS	LOT	1	400.00	400
06-94020-9	WIRE CASE FLEX NO.10	FT	50	0.40	20
- MATERIAL SUB-TOTAL					3564
- TRANSP/HAND ( 5.00 %)					178
- MATERIAL TOTAL					3742

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

PROJ. LOCATION: THROOP STREET

DIRECT LABOR	ST HOURS	ST RATE	OT HOURS	OT RATE	
SIGNAL FOREMAN	40	32.85	0	49.27	
LEAD SIGNALMAN	40	25.96	0	38.94	
SIGNALMAN	160	25.67	0	38.51	
MAINTAINER	40	32.51	0	48.77	
		7760.00		0.00	\$7,760
WIRING COST	0				\$0
					LABOR ADDITIVES ( 71.66%) \$5,561
ENGINEERING	0	\$35.00			\$0
					ENGINEERING ADDITIVES (70.15%) \$0
OTHER LABOR TOTAL					\$0

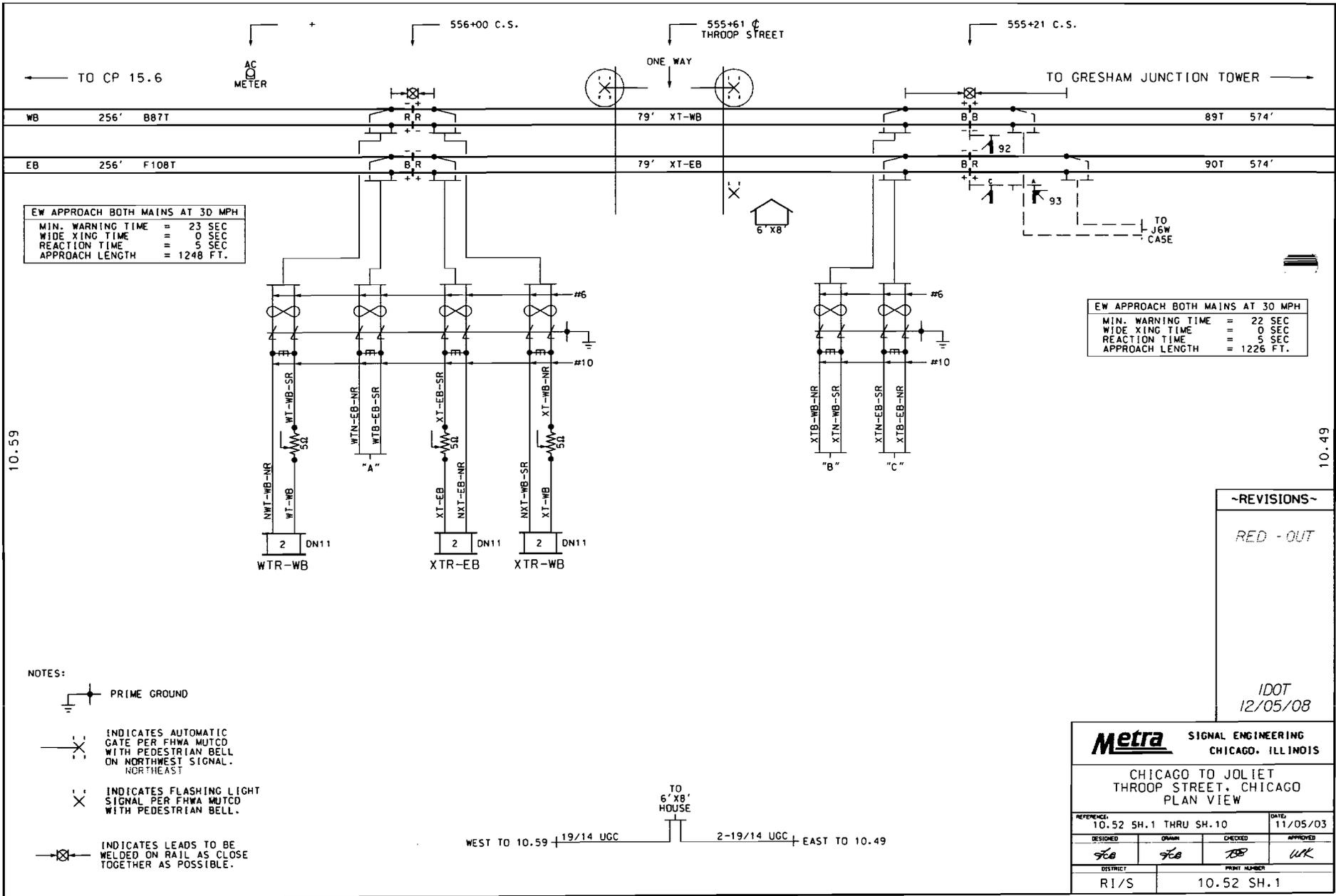
LABOR TOTAL \$13,321

EQUIPMENT/VEHICLES	UNITS	COST EA.	DAYS	
PICKUP TRUCK	1	\$30	5	\$152
CREW TRUCK/CRANE	1	\$214	5	\$1,072
BACKHOE/TRENCHER	1	\$107	5	\$533
SUPV. AUTO	1	\$54	0	\$0
EQUIPMENT AND VEHICLES TOTAL				\$1,757

TOTAL ABOVE ACCOUNTS \$18,820  
 CONTINGENCIES (10.00%) \$1,882

Project TOTAL \$20,702

EST ID: C:\EST16\ROCK\_ISL\BEVERLY\THROOP2.EST:FCB



EW APPROACH BOTH MAINS AT 30 MPH

MIN. WARNING TIME	=	23 SEC
WIDE XING TIME	=	0 SEC
REACTION TIME	=	5 SEC
APPROACH LENGTH	=	1248 FT.

EW APPROACH BOTH MAINS AT 30 MPH

MIN. WARNING TIME	=	22 SEC
WIDE XING TIME	=	0 SEC
REACTION TIME	=	5 SEC
APPROACH LENGTH	=	1226 FT.

- NOTES:
- PRIME GROUND
  - INDICATES AUTOMATIC GATE PER FHWA MUTCD WITH PEDESTRIAN BELL ON NORTHWEST SIGNAL.
  - INDICATES FLASHING LIGHT SIGNAL PER FHWA MUTCD WITH PEDESTRIAN BELL.
  - INDICATES LEADS TO BE WELDED ON RAIL AS CLOSE TOGETHER AS POSSIBLE.

-REVISIONS-

RED - OUT

IDOT  
12/05/08

**Metra** SIGNAL ENGINEERING  
CHICAGO, ILLINOIS

CHICAGO TO JOLIET  
THROOP STREET, CHICAGO  
PLAN VIEW

REFERENCE: 10.52 SH.1 THRU SH.10		DATE: 11/05/03	
DESIGNED <i>SCB</i>	DRAWN <i>SCB</i>	CHECKED <i>JB</i>	APPROVED <i>WK</i>
DISTRICT RI/S		PRINT NUMBER 10.52 SH.1	

## METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

DISTRICT: RI/S  
 PROJ. LOCATION: LAFLIN STREET  
 PROJ. DESCRIPTION: INSTALL AFLS PER ICC  
 PROJECT NUMBER:  
 OVERALL WORK LIMITS:

MATERIAL - Inventory			\$ EACH	\$ EXTEND	
06-13750-9	BELL LOUD 5" 12 VDC TOP MAST	EA	1	319.00	319
06-94222-1	CABLE UG 7/C#9	FT	500	3.55	1775
06-92302-3	FOUNDATION CONCRT F/FLASHER	EA	1	315.00	315
06-13050-4	LIGHT FLSH COMPL 4-12" 5"MST	EA	1	1800.00	1800
42-68075-1	PIPE PVC 4" SCHD80 20 FEET	EA	6	40.00	240
00-00000-0	TAPE TAGS AND TERMINALS	LOT	1	400.00	400
06-94020-9	WIRE CASE FLEX NO.10	FT	50	0.40	20
- MATERIAL SUB-TOTAL					4869
- TRANSP/HAND ( 5.00 %)					243
- MATERIAL TOTAL					5112

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

PROJ. LOCATION: LAFLIN STREET

DIRECT LABOR	ST HOURS	ST RATE	OT HOURS	OT RATE	
SIGNAL FOREMAN	56	32.85	0	49.27	
LEAD SIGNALMAN	56	25.96	0	38.94	
SIGNALMAN	224	25.67	0	38.51	
MAINTAINER	56	32.51	0	48.77	
		-----		-----	
		10864.00		0.00	\$10,864
WIRING COST	0				\$0
LABOR ADDITIVES ( 71.66%)					\$7,785
ENGINEERING	0	\$35.00			\$0
ENGINEERING ADDITIVES (70.15%)					\$0
OTHER LABOR TOTAL					\$0

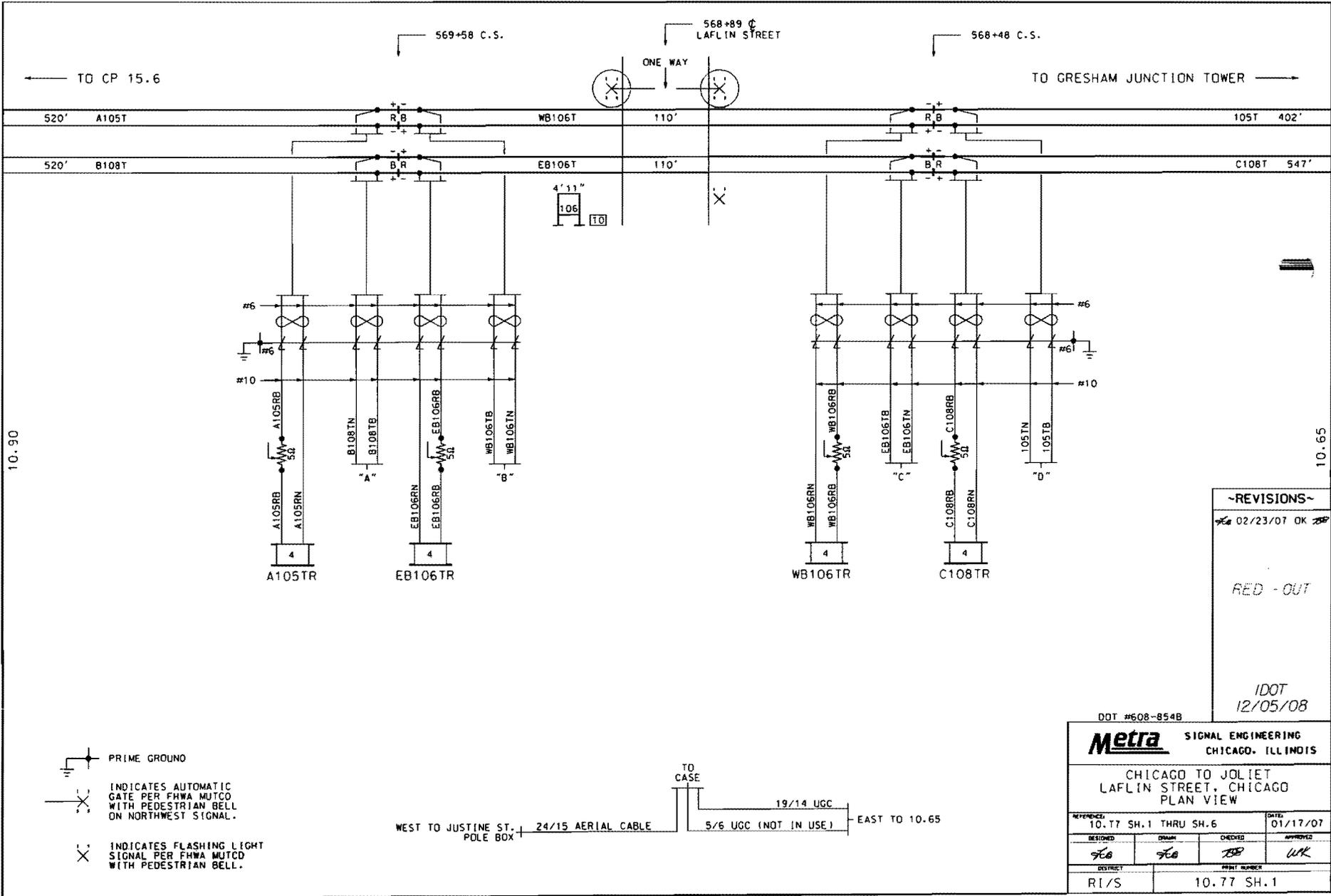
LABOR TOTAL \$18,649

EQUIPMENT/VEHICLES	UNITS	COST EA.	DAYS	
PICKUP TRUCK	1	\$30	7	\$212
CREW TRUCK/CRANE	1	\$214	7	\$1,501
BACKHOE/TRENCHER	1	\$107	7	\$747
SUPV. AUTO	1	\$54	0	\$0
EQUIPMENT AND VEHICLES TOTAL				\$2,460

TOTAL ABOVE ACCOUNTS \$26,221  
 CONTINGENCIES (10.00%) \$2,622

Project TOTAL \$28,843

EST ID: C:\EST16\ROCK\_ISL\BEVERLY\LAFLIN.EST:FCB



~REVISIONS~

02/23/07 OK

RED - OUT

IDOT  
12/05/08

DOT #608-854B

**Metra** SIGNAL ENGINEERING  
CHICAGO, ILLINOIS

CHICAGO TO JOLIET  
LAFLIN STREET, CHICAGO  
PLAN VIEW

DESIGNED	DRAWN	CHECKED	APPROVED
FLS	FLS	ZBP	WK
DISTRICT		PRINT NUMBER	
RI/S		10.77 SH.1	

REFERENCE: 10.77 SH.1 THRU SH.6

DATE: 01/17/07

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

DISTRICT: RI/S  
 PROJ. LOCATION: LOOMIS STREET  
 PROJ. DESCRIPTION: INSTALL AFLS PER ICC  
 PROJECT NUMBER:  
 OVERALL WORK LIMITS:

MATERIAL - Inventory				\$ EACH	\$ EXTEND
06-13750-9	BELL LOUD 5" 12 VDC TOP MAST	EA	1	319.00	319
06-94222-1	CABLE UG 7/C#9	FT	500	3.55	1775
06-92302-3	FOUNDATION CONCRT F/FLASHER	EA	1	315.00	315
06-13050-4	LIGHT FLSH COMPL 4-12" 5"MST	EA	1	1800.00	1800
42-68075-1	PIPE PVC 4" SCHD80 20 FEET	EA	6	40.00	240
00-00000-0	TAPE TAGS AND TERMINALS	LOT	1	400.00	400
06-94020-9	WIRE CASE FLEX NO.10	FT	50	0.40	20
- MATERIAL SUB-TOTAL					4869
- TRANSP/HAND ( 5.00 %)					243
- MATERIAL TOTAL					5112

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

PROJ. LOCATION: LOOMIS STREET

DIRECT LABOR	ST HOURS	ST RATE	OT HOURS	OT RATE	
SIGNAL FOREMAN	56	32.85	0	49.27	
LEAD SIGNALMAN	56	25.96	0	38.94	
SIGNALMAN	224	25.67	0	38.51	
MAINTAINER	56	32.51	0	48.77	
		-----		-----	
		10864.00		0.00	\$10,864
WIRING COST	0				\$0
					LABOR ADDITIVES ( 71.66%) \$7,785
ENGINEERING	0	\$35.00			\$0
					ENGINEERING ADDITIVES (70.15%) \$0
OTHER LABOR TOTAL					\$0

LABOR TOTAL \$18,649

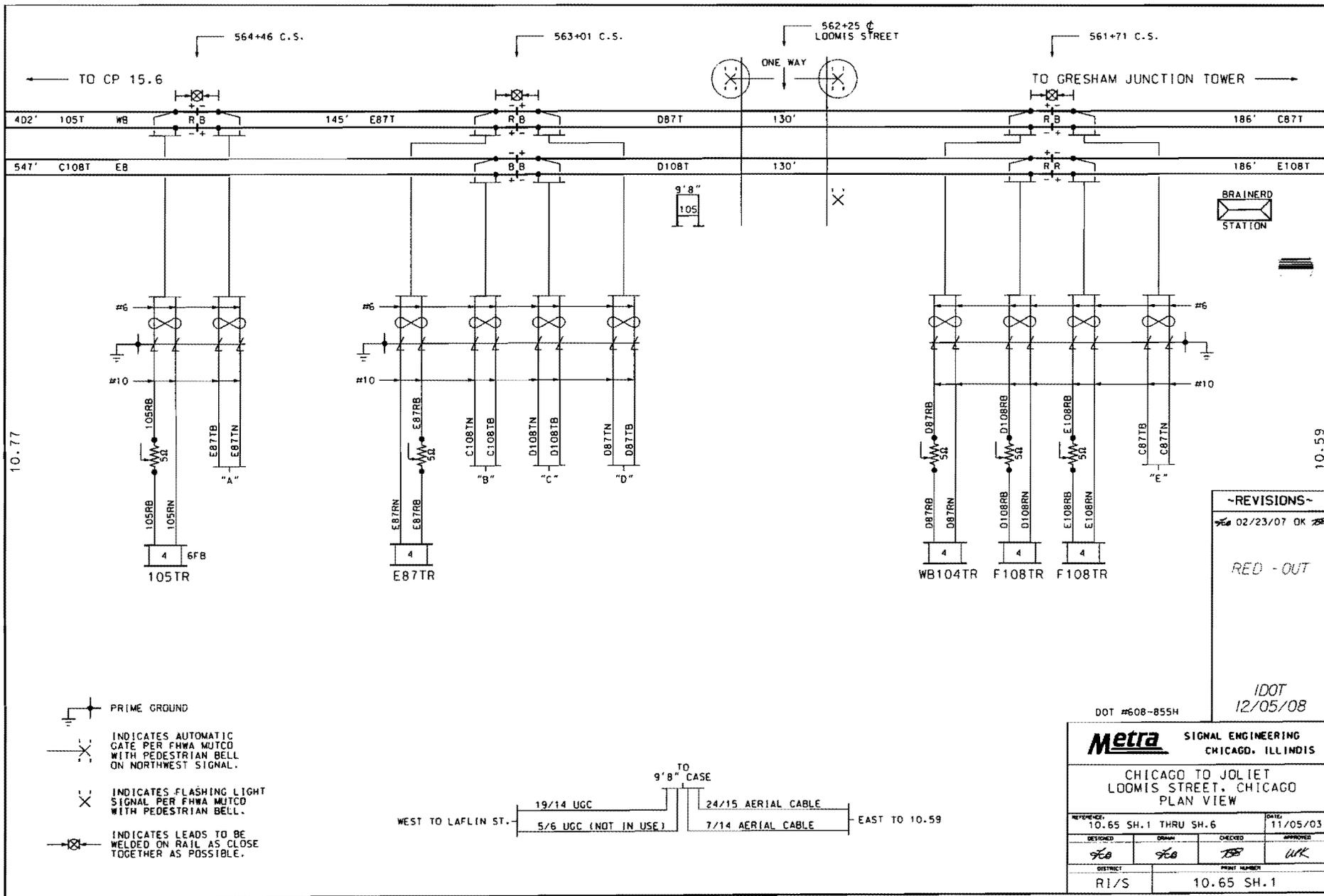
EQUIPMENT/VEHICLES	UNITS	COST EA.	DAYS	
PICKUP TRUCK	1	\$30	7	\$212
CREW TRUCK/CRANE	1	\$214	7	\$1,501
BACKHOE/TRENCHER	1	\$107	7	\$747
SUPV.AUTO	1	\$54	0	\$0

EQUIPMENT AND VEHICLES TOTAL \$2,460

TOTAL ABOVE ACCOUNTS	\$26,221
CONTINGENCIES (10.00%)	\$2,622

Project TOTAL \$28,843

EST ID: C:\EST16\ROCK\_ISL\BEVERLY\LOOMIS.EST:FCB



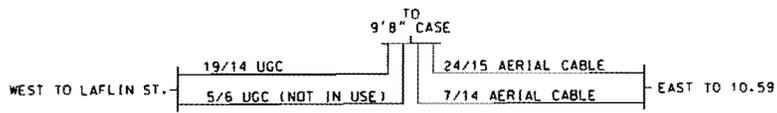
-REVISIONS-

02/23/07 OK *RSB*

RED - OUT

IDOT  
12/05/08

- PRIME GROUND
- INDICATES AUTOMATIC GATE PER FHWA MUTCO WITH PEDESTRIAN BELL ON NORTHWEST SIGNAL.
- INDICATES FLASHING LIGHT SIGNAL PER FHWA MUTCO WITH PEDESTRIAN BELL.
- INDICATES LEADS TO BE WELDED ON RAIL AS CLOSE TOGETHER AS POSSIBLE.



DOT #608-855H

**Metra** SIGNAL ENGINEERING  
CHICAGO, ILLINOIS

CHICAGO TO JOLIET  
LOOMIS STREET, CHICAGO  
PLAN VIEW

REFERENCE:	10.65 SH.1 THRU SH.6	DATE:	11/05/03
DESIGNED:	<i>fo</i>	CHECKED:	<i>RSB</i>
DRAWN:	<i>fo</i>	APPROVED:	<i>WK</i>
DISTRICT:	RI/S	PRINT NUMBER:	10.65 SH.1

11/05/03

## METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

DISTRICT: MED/SC  
 PROJ. LOCATION: 80TH PLACE  
 PROJ. DESCRIPTION: INSTALL AFLS PER ICC & RELOCATE GATE  
 PROJECT NUMBER:  
 OVERALL WORK LIMITS:

MATERIAL - Inventory			\$ EACH	\$ EXTEND
06-13750-9 BELL LOUD 5" 12 VDC TOP MAST	EA	1	319.00	319
06-94220-5 CABLE UG 5/C#14	FT	200	1.64	328
06-94216-3 CABLE UG 5/C#6	FT	200	4.28	856
06-94222-1 CABLE UG 7/C#9	FT	200	3.55	710
06-92300-7 FOUNDATION CONCRT F/GATE	EA	1	450.00	450
06-10006-9 GATE MECH S40 14'MST/ARM/JBOX	EA	1	7355.00	7355
00-00000-0 TAPE TAGS AND TERMINALS	LOT	1	400.00	400
06-94020-9 WIRE CASE FLEX NO.10	FT	100	0.40	40
- MATERIAL SUB-TOTAL				10458
- TRANSP/HAND ( 5.00 %)				523
- MATERIAL TOTAL				10981

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

PROJ. LOCATION: 80TH PLACE

DIRECT LABOR	ST HOURS	ST RATE	OT HOURS	OT RATE	
SIGNAL FOREMAN	40	32.85	0	49.27	
LEAD SIGNALMAN	40	25.96	0	38.94	
SIGNALMAN	160	25.67	0	38.51	
MAINTAINER	40	32.51	0	48.77	
		-----		-----	
		7760.00		0.00	\$7,760
WIRING COST	0				\$0
					LABOR ADDITIVES ( 71.66%) \$5,561
ENGINEERING	0	\$35.00			\$0
					ENGINEERING ADDITIVES (70.15%) \$0
OTHER LABOR TOTAL					\$0

LABOR TOTAL \$13,321

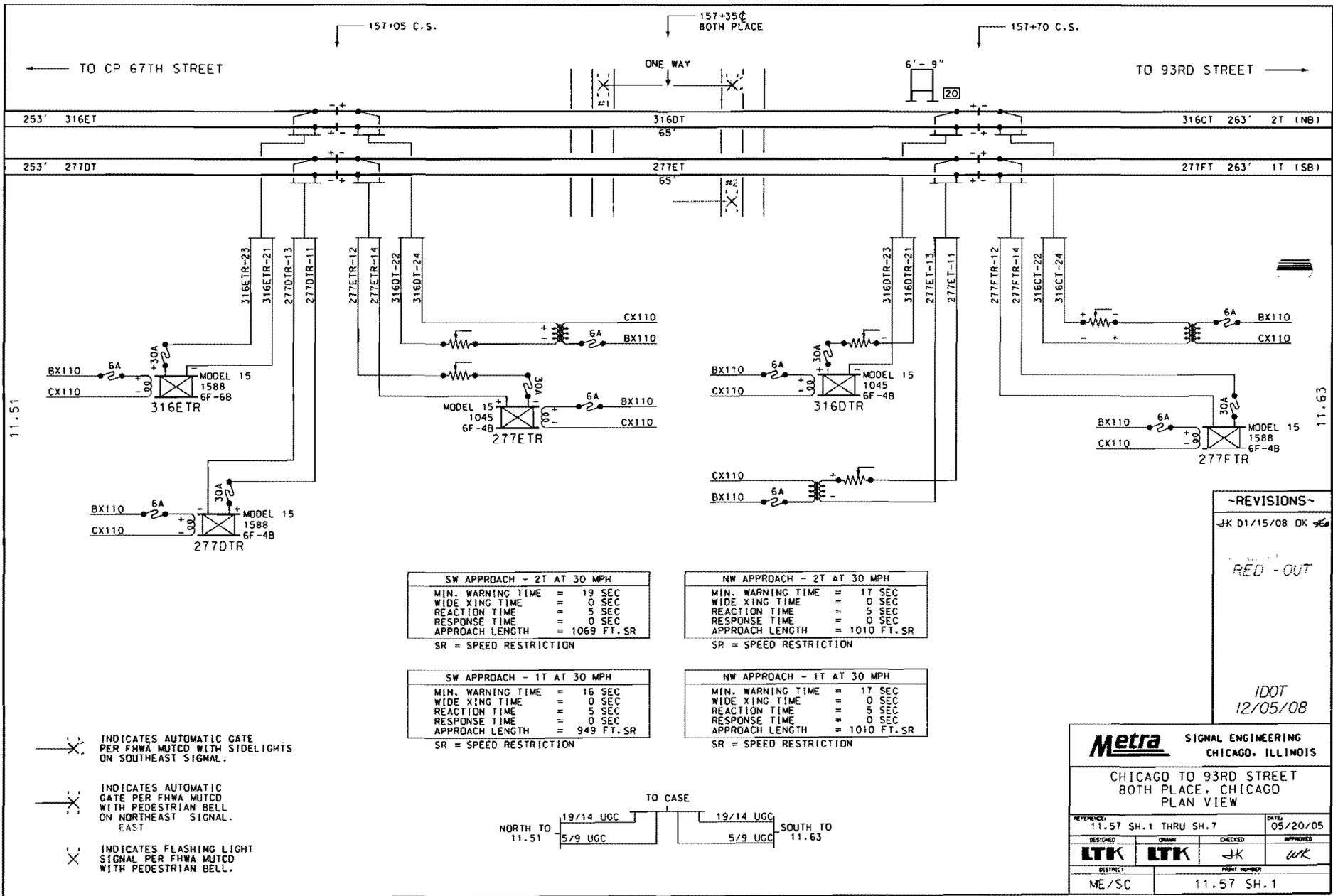
EQUIPMENT/VEHICLES	UNITS	COST EA.	DAYS	
PICKUP TRUCK	1	\$30	5	\$152
CREW TRUCK/CRANE	1	\$214	5	\$1,072
BACKHOE/TRENCHER	1	\$107	5	\$533
SUPV.AUTO	1	\$54	0	\$0

EQUIPMENT AND VEHICLES TOTAL \$1,757

TOTAL ABOVE ACCOUNTS	\$26,059
CONTINGENCIES (10.00%)	\$2,606

Project TOTAL \$28,664

EST ID: C:\EST16\ELECTRIC\S\_CHICAG\80TH\_PL.EST:FCB



**~REVISIONS~**  
 JK D1/15/08 OK  
 RED - OUT  
 IDOT  
 12/05/08

SW APPROACH - 2T AT 30 MPH	
MIN. WARNING TIME	= 19 SEC
WIDE XING TIME	= 0 SEC
REACTION TIME	= 5 SEC
RESPONSE TIME	= 0 SEC
APPROACH LENGTH	= 1069 FT. SR

SR = SPEED RESTRICTION

NW APPROACH - 2T AT 30 MPH	
MIN. WARNING TIME	= 17 SEC
WIDE XING TIME	= 0 SEC
REACTION TIME	= 5 SEC
RESPONSE TIME	= 0 SEC
APPROACH LENGTH	= 1010 FT. SR

SR = SPEED RESTRICTION

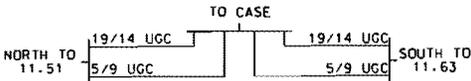
SW APPROACH - 1T AT 30 MPH	
MIN. WARNING TIME	= 16 SEC
WIDE XING TIME	= 0 SEC
REACTION TIME	= 5 SEC
RESPONSE TIME	= 0 SEC
APPROACH LENGTH	= 949 FT. SR

SR = SPEED RESTRICTION

NW APPROACH - 1T AT 30 MPH	
MIN. WARNING TIME	= 17 SEC
WIDE XING TIME	= 0 SEC
REACTION TIME	= 5 SEC
RESPONSE TIME	= 0 SEC
APPROACH LENGTH	= 1010 FT. SR

SR = SPEED RESTRICTION

- INDICATES AUTOMATIC GATE PER FHWA MUTCD WITH SIDELIGHTS ON SOUTHEAST SIGNAL.
- INDICATES AUTOMATIC GATE PER FHWA MUTCD WITH PEDESTRIAN BELL ON NORTHEAST SIGNAL.
- INDICATES FLASHING LIGHT SIGNAL PER FHWA MUTCD WITH PEDESTRIAN BELL.



**Metra** SIGNAL ENGINEERING  
 CHICAGO, ILLINOIS

CHICAGO TO 93RD STREET  
 80TH PLACE, CHICAGO  
 PLAN VIEW

DESIGNED	DATE
11.57 SH.1 THRU SH.7	05/20/05
DESIGNED	DATE
LTK	05/20/05
CHECKED	DATE
JK	05/20/05
APPROVED	DATE
WK	05/20/05
DISTRICT	PROJECT NUMBER
ME/SC	11.57 SH.1

## METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

DISTRICT: MED/SC  
 PROJ. LOCATION: 81ST STREET  
 PROJ. DESCRIPTION: INSTALL AFLS PER ICC & RELOCATE GATE  
 PROJECT NUMBER:  
 OVERALL WORK LIMITS:

MATERIAL - Inventory				\$ EACH	\$ EXTEND
06-13750-9	BELL LOUD 5" 12 VDC TOP MAST	EA	1	319.00	319
06-94220-5	CABLE UG 5/C#14	FT	200	1.64	328
06-94216-3	CABLE UG 5/C#6	FT	200	4.28	856
06-94222-1	CABLE UG 7/C#9	FT	200	3.55	710
06-92300-7	FOUNDATION CONCRT F/GATE	EA	1	450.00	450
06-10006-9	GATE MECH S40 14'MST/ARM/JBOX	EA	1	7355.00	7355
00-00000-0	TAPE TAGS AND TERMINALS	LOT	1	400.00	400
06-94020-9	WIRE CASE FLEX NO.10	FT	100	0.40	40
- MATERIAL SUB-TOTAL					10458
- TRANSP/HAND ( 5.00 %)					523
- MATERIAL TOTAL					10981

METRA SIGNAL ENGINEERING ESTIMATE -- Project Force Account

PROJ. LOCATION: 81ST STREET

DIRECT LABOR	ST HOURS	ST RATE	OT HOURS	OT RATE	
SIGNAL FOREMAN	40	32.85	0	49.27	
LEAD SIGNALMAN	40	25.96	0	38.94	
SIGNALMAN	160	25.67	0	38.51	
MAINTAINER	40	32.51	0	48.77	
		-----		-----	
		7760.00		0.00	\$7,760
WIRING COST	0				\$0
LABOR ADDITIVES ( 71.66%)					\$5,561
ENGINEERING	0	\$35.00			\$0
ENGINEERING ADDITIVES (70.15%)					\$0
OTHER LABOR TOTAL					\$0

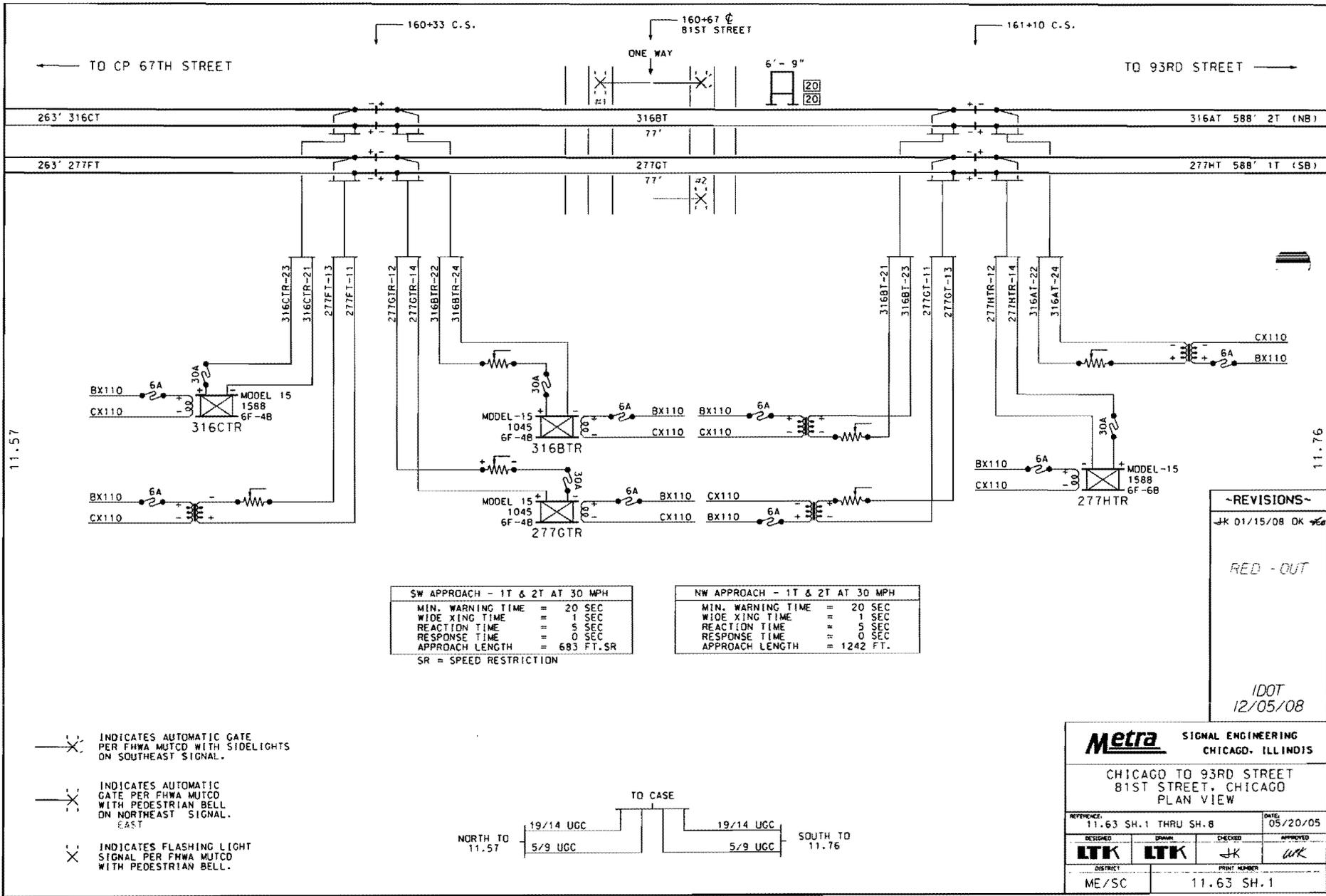
LABOR TOTAL \$13,321

EQUIPMENT/VEHICLES	UNITS	COST EA.	DAYS	
PICKUP TRUCK	1	\$30	5	\$152
CREW TRUCK/CRANE	1	\$214	5	\$1,072
BACKHOE/TRENCHER	1	\$107	5	\$533
SUPV. AUTO	1	\$54	0	\$0
EQUIPMENT AND VEHICLES TOTAL				\$1,757

TOTAL ABOVE ACCOUNTS \$26,059  
 CONTINGENCIES (10.00%) \$2,606

Project TOTAL \$28,664

EST ID: C:\EST16\ELECTRIC\S\_CHICAG\81ST\_ST.EST:FCB



11.57

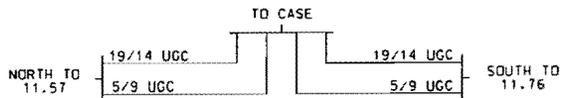
11.76

SW APPROACH - 1T & 2T AT 30 MPH	
MIN. WARNING TIME	= 20 SEC
WIDE XING TIME	= 1 SEC
REACTION TIME	= 5 SEC
RESPONSE TIME	= 0 SEC
APPROACH LENGTH	= 683 FT. SR

NW APPROACH - 1T & 2T AT 30 MPH	
MIN. WARNING TIME	= 20 SEC
WIDE XING TIME	= 1 SEC
REACTION TIME	= 5 SEC
RESPONSE TIME	= 0 SEC
APPROACH LENGTH	= 1242 FT.

SR = SPEED RESTRICTION

- INDICATES AUTOMATIC GATE PER FHWA MUTCD WITH SIDELIGHTS ON SOUTHEAST SIGNAL.
- INDICATES AUTOMATIC GATE PER FHWA MUTCD WITH PEDESTRIAN BELL ON NORTHEAST SIGNAL.
- INDICATES FLASHING LIGHT SIGNAL PER FHWA MUTCD WITH PEDESTRIAN BELL.



**~REVISIONS~**

JK 01/15/08 OK

RED - OUT

IDOT  
12/05/08

**Metra** SIGNAL ENGINEERING  
CHICAGO, ILLINOIS

CHICAGO TO 93RD STREET  
81ST STREET, CHICAGO  
PLAN VIEW

REFERENCE: 11.63 SH.1 THRU SH.8	DATE: 05/20/05
DESIGNED: <b>LTK</b>	DRAWN: <b>LTK</b>
CHECKED: <b>JK</b>	APPROVED: <b>WK</b>
DISTRICT: ME/SC	PRINT NUMBER: 11.63 SH.1