| LOCAL AGENCY | | CONSULTANT | |
|---|---|---|---|
| Municipality | Illinois Department of Transportation | Name | Alfred Benesch |
| Township | | Address | 205 No. Michigan Suite 2400 |
| County: Lake County – Division of Transportation | **Preliminary Engineering Services Agreement For Non-Motor Fuel Tax Funds** | City | Chicago |
| Section: 08-00080-56-BR | | State | IL |

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Non-Motor Fuel Tax Funds, allotted to the LA ~~by the State of Illinois~~, under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely ~~or in part~~ to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

## Section Description

Name Proposed Grade Separation Rollins Road and the Canadian National Railway

Route Rollins Length _____ Mi. 2986.00 FT (Structure No. _____)

Termini Rollins - Mallard Creek Drive to Round Lake Commons; IL 83 - Hook to Brighton; Hainesville - Rollins to Clarendo

Description:
Gade separation of the Canadian National Railway over Rollins Road. This also includes the realignment of Hainesville Road and the relocation of the Round Lake Commons signalized intersection.

## Agreement Provisions

**The Engineer Agrees,**

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
   - a. ☒ Make such detailed surveys as are necessary for the preparation of detailed roadway plans
   - b. ☒ Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
   - c. ☒ Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
   - d. ☐ Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
   - e. ☒ Prepare Army Corps of Engineers Permit, **Lake County Stormwater Management Commission Permit**, Department of Natural Resources-Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.
   - f. ☒ Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
   - g. ☒ Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with **one (1) copy of each document in both hardcopy and electronic format**. Additional copies of any or all documents, if required, shall be furnished to the LA by the ENGINEER at the ENGINEER's actual cost for reproduction.
   - h. ☒ Furnish the LA with survey and drafts in **duplicate** of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
   - i. ☒ Assist the LA in the tabulation and interpretation of the contractors' proposals

j. ☐ Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.

k. ☐ Prepare the Project Development Report when required by the DEPARTMENT.

l. ☒ **Services as included and/or defined in the attached Scope of Services.**

2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies **of the LA** ~~of the DEPARTMENT~~. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA ~~and the DEPARTMENT~~.

3. To attend conferences at any reasonable time when requested to do so by representatives of the LA ~~or the Department~~.

4. In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work without expense to the LA, even though final payment has been received by the ENGINEER. The ENGINEER shall give immediate attention to these changes so there will be a minimum delay to the CONTRACTOR.

5. That basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this AGREEMENT will be made available, upon request, to the LA ~~or the DEPARTMENT~~ without cost and without restriction or limitations as to their use.

6. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will show the ENGINEER's professional seal where such is required by law.

**The LA Agrees,**

1. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT according to the following method indicated by a check mark:

   a. ☐ A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.

   b. ☐ A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

| Awarded Cost | Percentage Fees |
|---|---|
| Under $50,000 | _____ (see note) |
| | _____ % |
| | _____ % |
| | _____ % |

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing such work plus ___ percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus an additional service charge of up to five (5) percent.

   "Cost to Engineer" to be verified by furnishing the LA ~~and the DEPARTMENT~~ copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed.

**The Total Not-to-Exceed Contract Amount shall be $2974565.00**

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed in accordance with the following schedule:

   a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by section 1 of the ENGINEER AGREES - to the satisfaction of the LA ~~and their approval by the DEPARTMENT~~, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.

   b. Upon award of the contract for the improvement by the LA ~~and its approval by the DEPARTMENT~~, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.

   By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.

4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in sections 1 and 3 of the ENGINEER AGREES and prior to the completion of such services, the LA shall reimburse the ENGINEER for the ENGINEER's actual costs plus ___ percent incurred up to the time the ENGINEER is notified in writing of such abandonment -"actual cost" being defined as in paragraph 2 of the LA AGREES.

5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of the ENGINEER AGREES, ~~after they have been approved by the DEPARTMENT~~, the LA will pay the ENGINEER for such changes on the basis of actual cost plus ___ percent to cover profit, overhead and readiness to serve -"actual cost" being defined as in paragraph 2 of the LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of the ENGINEER's responsibility to prepare a complete and adequate set of plans and specifications.

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**It is Mutually Agreed,**

1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.

2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with section 4 of the LA AGREES.

3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA ~~and their approval by the DEPARTMENT~~, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA ~~and the DEPARTMENT~~.

4. That the ENGINEER warrants that the ENGINEER has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that the ENGINEER's has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in triplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

County of Lake of the
(~~Municipality/Township~~/County)

ATTEST:

By _____

Lake County Clerk

(Seal)

State of Illinois, acting by and through its

County Board

By _____

Title Chairman of the County Board

RECOMMENDED FOR EXECUTION

_____
Martin G. Buehler, P.E.
Director of Transportation/County Engineer
Lake County

Executed by the ENGINEER:

Alfred Benesch & Co.
Engineering Firm
205 N. Michigan Suite 2400
Street Address
Chicago, IL 60601
City, State

ATTEST:

By _____

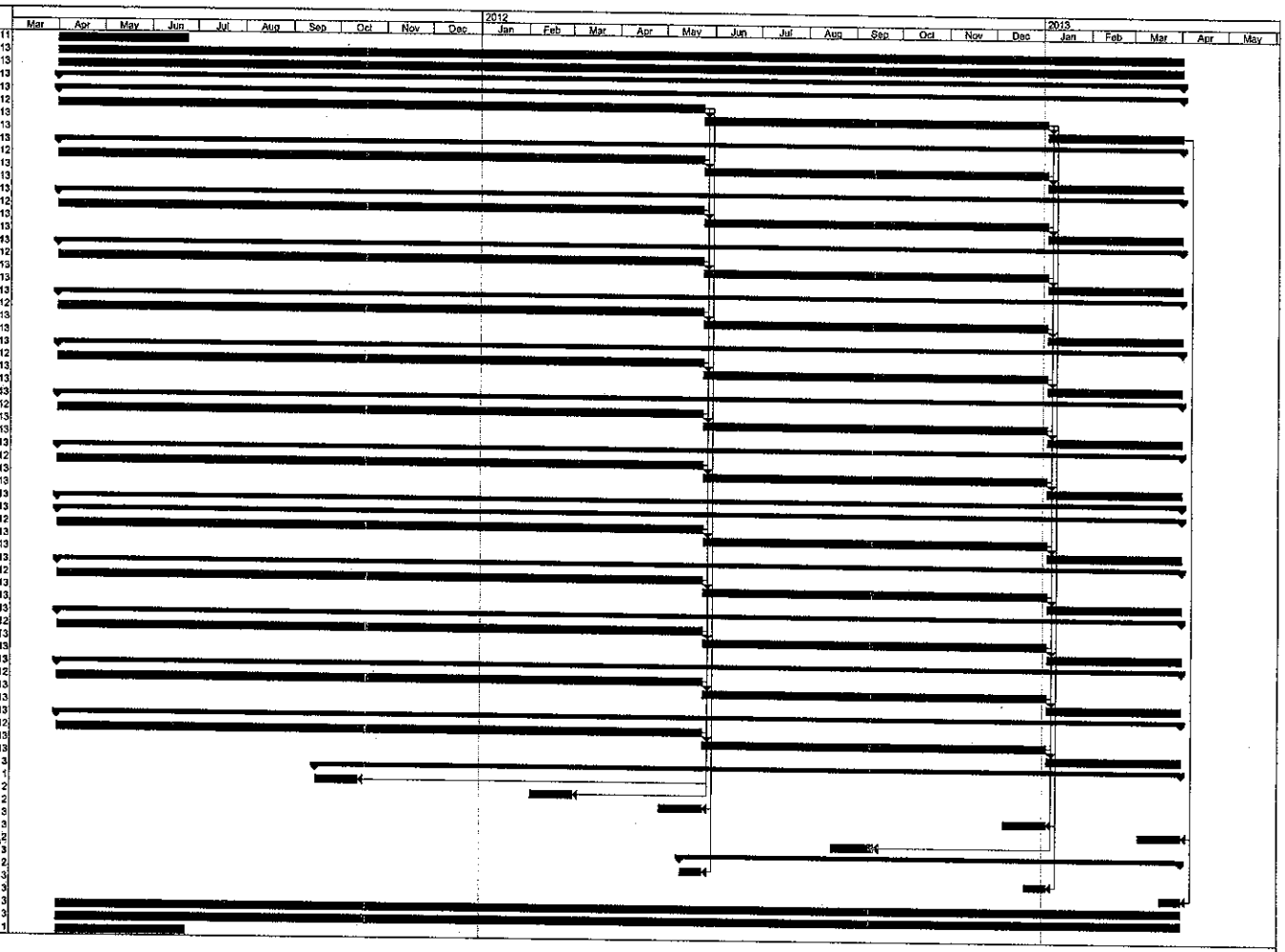
Title Vice President

By _____

Title President

**Note: Three (3) Original Executed Contracts – (2) LCDOT; (1) Consultant**

| ID | WBS | Task Name | Duration | Start | Finish |
|---|---|---|---|---|---|
| 1 | 1 | Value Engineering | 60 days | Fri 4/1/11 | Thu 6/23/11 |
| 2 | 2 | Project Coordination | 522 days | Fri 4/1/11 | Mon 4/1/13 |
| 3 | 3 | Cost Management | 522 days | Fri 4/1/11 | Mon 4/1/13 |
| 4 | 4 | **Civil Plans** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 5 | 4.1 | **ROADWAY PLANS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 6 | 4.1.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 7 | 4.1.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 8 | 4.1.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 9 | 4.2 | **DRAINAGE AND UTILITY PLANS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 10 | 4.2.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 11 | 4.2.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 12 | 4.2.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 13 | 4.3 | **EROSION CONTROL AND SEDIMENT PLANS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 14 | 4.3.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 15 | 4.3.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 16 | 4.3.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 17 | 4.4 | **STAGING AND TRAFFIC CONTROL** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 18 | 4.4.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 19 | 4.4.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 20 | 4.4.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 21 | 4.5 | **PAVEMENT MARKING AND SIGNING PLANS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 22 | 4.5.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 23 | 4.5.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 24 | 4.5.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 25 | 4.6 | **TRAFFIC SIGNALS, LIGHTING AND ITS PLANS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 26 | 4.6.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 27 | 4.6.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 28 | 4.6.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 29 | 4.7 | **RAILROAD TRACK PLANS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 30 | 4.7.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 31 | 4.7.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 32 | 4.7.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 33 | 5 | **Landscape Plans** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 34 | 5.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 35 | 5.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 36 | 5.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 37 | 6 | **Structural Plans** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 38 | 6.1 | **CN BRIDGE OVER ROLLINS ROAD** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 39 | 6.1.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 40 | 6.1.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 41 | 6.1.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 42 | 6.2 | **CN RETAINING WALLS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 43 | 6.2.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 44 | 6.2.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 45 | 6.2.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 46 | 6.3 | **COM ED TOWER WALLS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 47 | 6.3.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 48 | 6.3.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 49 | 6.3.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 50 | 6.4 | **IL RTE 83 WALLS** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 51 | 6.4.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 52 | 6.4.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 53 | 6.4.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 54 | 6.5 | **TEMPORARY STRUCTURES** | **522 days** | **Fri 4/1/11** | **Mon 4/1/13** |
| 55 | 6.5.1 | Preliminary | 300 days | Fri 4/1/11 | Thu 5/24/12 |
| 56 | 6.5.2 | Pre-Final | 160 days | Fri 5/25/12 | Thu 1/3/13 |
| 57 | 6.5.3 | Final | 62 days | Fri 1/4/13 | Mon 4/1/13 |
| 58 | 7 | **PUBLIC INVOLVEMENT** | **402 days** | **Fri 9/16/11** | **Mon 4/1/13** |
| 59 | 7.1 | Aesthetic Coordination Meeting No. 1 | 20 days | Fri 9/16/11 | Thu 10/13/11 |
| 60 | 7.2 | Aesthetic Coordiantion Meeting No. 2 | 20 days | Fri 2/3/12 | Thu 3/1/12 |
| 61 | 7.3 | Preliminary Plan Review | 20 days | Fri 4/27/12 | Thu 5/24/12 |
| 62 | 7.4 | Pre-Final Plan Review | 20 days | Fri 12/7/12 | Thu 1/3/13 |
| 63 | 7.5 | Final Plan Review | 20 days | Tue 3/5/13 | Mon 4/1/13 |
| 64 | 7.6 | Construction Marketing Plan | 20 days | Fri 8/17/12 | Thu 9/13/12 |
| 65 | 8 | **SUBMITTALS** | **232 days** | **Fri 5/11/12** | **Mon 4/1/13** |
| 66 | 8.1 | Preliminary | 10 days | Fri 5/11/12 | Thu 5/24/12 |
| 67 | 8.2 | Pre-Final | 10 days | Fri 12/21/12 | Thu 1/3/13 |
| 68 | 8.3 | Final | 10 days | Tue 3/19/13 | Mon 4/1/13 |
| 69 | 9 | QUALITY ASSURANCE | 522 days | Fri 4/1/11 | Mon 4/1/13 |
| 70 | 10 | ADMINISTRATION | 522 days | Fri 4/1/11 | Mon 4/1/13 |
| 71 | 11 | SURVEY | 60 days | Fri 4/1/11 | Thu 6/23/11 |




Project: Phase1_Draft_Schedule
Date: Thu 2/17/11

Task — Progress — Summary — External Tasks — Deadline
Split — Milestone — Project Summary — External Milestone

# Phase II Engineering Cost Proposal for Proposed Grade Separation Rollins Road and the Canadian National Railway

LCDOT Section 08-00080-56-BR

*February 22, 2011*

**Prepared for:**
Lake County Division of Transportation

benesch

**Prepared by:**
Alfred Benesch & Company

**Phase II Engineering Cost Proposal for**
**Proposed Grade Separation**
**Rollins Road and the Canadian National Railway**
**LCDOT Section 08-00080-56-BR**

## Table of Contents

## DETAILED SCOPE OF WORK

### Phase II Engineering for
### Grade Separation of the Canadian National Railway
### over Rollins Road

### Lake County
### Section: 08-00080-56-BR

The scope of work for this project includes Phase II engineering services for the design of the grade separation of the Canadian National Railway over Rollins Road. This also includes the realignment of Hainesville Road and the relocation of the Round Lake Commons signalized intersection according to the details found in the approved Design Report. The following tasks are included to complete this work.

**1.0 Value Engineering**

This task involves a project level Value Engineering Study of the approved Phase I plan design. The study will identify the costs of the project by element and will look for value mismatches and opportunities. Due to the complexity of the staged implementation for the project, particular attention will be given to the costs associated with the staging of the project. The product of this study will be a value engineering report.

**2.0 Project Coordination**

This task includes coordination with various entities to complete the project. This includes coordination with Lake County DOT, IDOT, CN Railroad, Greater Round Lake Beach Park District, Village of Round Lake Beach, Lake County SMC, Com Ed and the Illinois Commerce Commission (ICC) for the temporary at grade rail crossing modification.

**3.0 Cost Management**

This task will include the preparation of cost estimates for the improvements at the preliminary, pre-final and final phases of the project. These will be developed utilizing a compilation of recent bid prices for typical items of similar quantities, and customized estimates for unique items prepared by analyzing the labor and materials required to complete the work and then applying appropriate industry costs.

**4.0 Civil Plans**

All plans for the subject project will be prepared using English units. Plans will be prepared in accordance with chapters 63-66 of the Bureau of Design and Environment Manual. The decision with regards to if the project will be let by IDOT (Federal Funds) or by LCDOT (Local Funds) has not been determined. A line item has been added to switch from federal to local format if necessary. The tasks comprising the scope of work are detailed below

**4.1 Roadway Plans**

This portion of the Phase II task will include the extensive task of preparation of roadway plans. The following process will be utilized to complete this task:

1. **Cover Sheet**
   The standard IDOT Title Sheet will be utilized.

2. **Notes/Index/Standards**

- A list of commitments from Phase I will be included.
- IDOT and LCDOT general notes will be utilized as applicable.
- An index of sheets will be included
- A list of current IDOT and LCDOT standards pertinent to the subject project will be included in the plans.

**3. Summary of Quantities**

- Hours for preparing the Summary of Quantity sheets will consist of formatting the summary of quantity tables and inputting the required information. Appropriate funding columns shall be shown on the Summary of Quantity sheets and quantities shall be calculated accordingly.
- Hours for calculating the quantities will be included in the hours for the preparation of the respective plan sheets on which the items appear.
- Benesch will coordinate with IDOT to obtain the proper construction type fund coding.

**4. Schedules of Quantities**

- Items which are repeated on multiple pages will be shown in a tabular format in the Schedule of Quantities.
- Hours for preparing Schedule of Quantity sheets will consist of formatting the schedules and inputting the required information.
- Hours for calculating the quantities will be included in the hours for the preparation of the respective plan sheets on which the items appear.
- A bituminous mixture chart and QC/QA schedule for bituminous materials will be included with the Schedules of Quantities.

**5. Typical Sections**

- A legend will be provided on all sheets. Pay items will be called out exactly as they appear on the Summary of Quantity sheets.
- The typical sections will be proportioned in such a manner that all information will be adequately conveyed.
- Pavement design information will be provided on all sheets.
- Pavement design will be prepared and submitted to the appropriate agency for approval
- Separate existing and proposed typical sections will be prepared to satisfy IDOT requirements in the event federal funding is utilized.
- Existing Typical Sections will cover the entire length of the proposed improvement and will be determined based on the various pavement structures.
- Removal items will be cross hatched on the existing typical sections.
- Proposed Typical Sections (as presented in plan sheets) will cover the entire length of the proposed improvement for the construction and will be provided based on the following conditions: superelevation, where the roadway transitions from a curbed section to a non-curbed section and vice versa, changes to the pavement structure, changes to pavement width, cross section changes and side slope variations.
- Notes will be utilized where feasible to describe special cases and therefore limit the amount of typical sections required.

6. **Alignment and Ties**
   - A scale of 1"=250 will be utilized in order to fit the entire project on one sheet.
   - Schematic drawings for all of the reference ties will be shown together on a separate sheet.
   - Curve data and the survey marker schedule will be shown together on a separate sheet.

7. **Plan and Profile Sheets**

   The plans will be assembled under the following general assumptions:
   - Two window view: existing plan/proposed plan, existing profile/proposed profile.
   - Vertical and horizontal curve data, including superelevation rates and transitions, will be shown on the plans.
   - Horizontal scale: 1"=20', Vertical scale: 1"=10' (with 1/10 grid)
   - Utility lines will not be shown.
   - Benchmarks will be depicted and detailed on the plan sheets.
   - Items which are repeated on multiple pages will be shown in a tabular format in the Schedule of Quantities.
   - Roadway removal items (including tree removal) will be shown on the Removal sheets.

   Hours to prepare the plan and profile sheets will also include the following:

   - Quantity take offs.
   - Clear zone and barrier warrant analyses.

8. **Intersection Details/Elevations/Geometrics**
   - 1"=20' Scale

9. **Removal Plans**
   - These will be prepared as separate sheets at 1"=20' Scale

10. **Cross Sections**
    - Horizontal scale: 1"=10', Vertical scale: 1"=5' (with 1/10 grid)
    - Cross Sections will be provided at 50' along the length of the project, including all driveways and side roads as necessary.
    - Cross Sections will be provided at every culvert crossing.
    - Existing and proposed right of way will be shown.
    - Profile grade line, edge of pavement and ditch elevations will be depicted.
    - Cut and fill areas will be labeled on each cross section per stage of construction.
    - Locations of unsuitable materials to be removed will be indicated.
    - Temporary widening and temporary cut and fill areas will be shown.
    - The proposed drainage system and existing utility lines will be shown and labeled.
    - Cross Sections will show the grading required for the multi use path.

- Earth excavation and embankment must be calculated and paid for in accordance with the new methods outlined in the IDOT Standard Specifications. A 15% shrinkage factor is utilized in District One.

Hours to prepare Cross Sections will also include earthwork quantity take offs.

**11. Special Provisions**

- The Standard Specifications for Road and Bridge Construction in Illinois, IDOT Recurring Special Provisions and IDOT District Ones Special Provisions will form the basis of the Special Provisions to be prepared for the project.
- The County will supply Benesch with any special provisions related to landscaping, erosion control, traffic signals, etc. Specific to Lake County items as required.
- Benesch will prepare additional special provisions as necessary.

## 4.2 Drainage and Utility Plans

This portion of the Phase II task will include the task of preparation of drainage and utility plans. The following process will be utilized to complete this task:

General Assumptions:

- The Plan and Profile base sheets will be utilized as the basis of the drainage sheets.
- Drainage and Utility sheets will depict and annotate drainage removal/adjustment items and the proposed drainage system in the existing and proposed plan views respectively. In profile, the proposed drainage system will be depicted and annotated.
- Utility lines and structures will be shown.
- Drainage structure and storm sewer information will be shown on the same sheet.

Hours to prepare the Drainage and Utility sheets will also include quantity take-offs.

Drainage Calculations

The IDOT Drainage Manual and Lake County Watershed Development Ordinance will be consulted to determine approved drainage software packages and methods for hydraulic calculations.

The following drainage calculations will be required to design and analyze the proposed drainage system:

- Inlet Spacing
- Storm Sewer Design
- Ditch Analysis
- Culvert Analysis
- Detention Calculations

Water Main Relocation:

The relocation of the water main on the north side of Rollins Road, relocation of the water main on the east side of IL Rte. 83 and the elimination of the water main on the west side of Hainesville Road are required due to the lowering of Rollins Road.

This scope of work includes the engineering plans required to maintain the existing services during construction and the proposed water main modifications required as a result of lowering the Rollins Road profile. Also included with this task is the effort needed to coordinate and obtain the necessary IEPA water main permit for the project.

### 4.3 Erosion Control and Sediment Plans

Erosion control and sediment plans will be prepared in accordance with the following:

- 1"=50' Scale
- The Maintenance of Traffic base sheets will be utilized as the basis of the Erosion Control plans since erosion control must be shown for each major construction stage.
- Text describing the erosion control measures to be implemented at each stage of construction will also be included.
- During the development of the staging for the project, consideration will be given to IEPA requirements regarding disturbed area and discharge testing requirements during construction. Options will be presented to the county for review and decisions will be documented.
- Hours to prepare the erosion control plans will also include quantity take offs.

This task will also include the preparation of a Stormwater Pollution and Prevention Plan (SWPP).

### 4.4 Staging and Traffic Control

- Measures that are required to maintain drainage during construction will be evaluated.
- Access to active properties will be maintained during construction.
- MOT will be demonstrated at a 1"=20' scale
- A separate sheet for staging notes, general notes and the legend will be included and placed on all sheets as applicable.
- Temporary roadway plan and profile sheets will be detailed within the Maintenance of Traffic plans.
- Construction guide signing will be depicted on the Maintenance of Traffic plans in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).
- Temporary lighting is not included in this scope of work.
- Benesch will develop special provisions for MOT as required.
- Benesch will be responsible for obtaining District One standard details pertaining to Maintenance of Traffic and incorporating the standards into the plan set.

**Estimate of Time**

BD 220 will be utilized to prepare the estimate of construction time.

### 4.5 Pavement Marking and Signing Plans

- Scale 1" = 50'

- Pavement marking shall be detailed and called out on the plans.
- Signage will also be detailed.

The quantities for the items under this task will be tallied and added to the Schedule of Quantities.

### 4.6 Traffic Signal, Intersection Lighting and ITS Plans

Benesch will develop temporary and permanent traffic signal plans for the following intersections:

- Mallard Creek and Rollins Road
- Hainesville Road and Rollins Road
- IL Rte 83 and Rollins Road (Including preemption plan for temporary intersection)
- Round Lake Commons Entrance and Rollins Road
- Hook Drive and IL Rte. 83

Benesch will also develop temporary and permanent interconnect plans to maintain and reestablish interconnect along Rollins Road and IL Rte. 83. Benesch will also add an interconnect between the intersection of Hainesville and Rollins Road to the intersection of Hainesville and Shorewood.

Benesch will provide plans for intersection lighting at the following locations:

- Intersection of Hainesville and Rollins Road
- Intersection of Round Lake Commons Entrance and Rollins Road
- Mallard Creek Parking Lot Modifications
- Round Lake Commons North Parking Lot Modifications
- Round Lake Commons South Parking Lot Modifications
- CN Underpass Lighting

This work will include calculations of lighting levels to determine the number and type of fixtures to be utilized.

Benesch will provide plans for the relocation of the HARS tower and associated communication cabinets and fiber optic connections.

### 4.7 Railroad Track Plans

This scope of work includes the preparation of railroad track plans for approximately 2200 feet of track on a new alignment. Railroad Coordination covered under task 2.0 Project Coordination.

Details of this work include the following:

- Schedules
- Alignment and Ties
- Typical Sections
- Track Plan and Profiles
- Track Staging Plans
- Earthwork Cross Sections

- Temporary Crossing Detail
- Railroad Standard Details
- Special Provisions

This scope of work does not include the following items:

- Hook Drive existing at grade crossing modifications.
- Railroad communication modifications.
- Railroad signal modifications.

## 5.0 Landscaping Plans

- 1"=50' Scale.
- Landscaping slated for removal during construction will be shown for restoration in these sheets.

## 6.0 Structural Plans

The scope for Structural Design is divided into general tasks. Quantity calculation, task specific value engineering is included in each element. Specific sheets for each task are detailed in Exhibit A. Below is a list of the following general tasks for Structural Design:

### 6.1 CN Bridge Over Rollins Road

This scope of work includes the preparation of railroad bridge plans and specifications, as well as shop drawing reviews, for a single track 150' span over Rollins Road that meets CN Standards and AREMA Standards. The bridge will be a steel thru-girder with a ballast deck. The bridge will be stage constructed. The plans and specifications will include substructure for a double track bridge and superstructure for only one track. It is assumed that the bridge substructure will be supported on piles. Details of this work include the following:

- Value Engineering
- Bridge Plans (Abutments, Girders, Deck & Staging Elements)
- Specifications

This scope of work does not include the following items:

- Superstructure for a second track.

### 6.2 CN Retaining Walls

This scope of work includes the plans, specifications and shop drawing reviews for four retaining walls extending from the abutments. During the Value Engineering Session for the bridge, the most cost effective wall designs will be evaluated. The results will be presented to LCDOT and CN for their review and comment prior to proceeding with the development of the plans and specifications. For estimating purposes, it is assumed that these walls will be cast-in-place cantilevered "L" or "T" type supported on piles.

### 6.3 Com Ed Tower Walls

This scope of work includes the plans, specifications and shop drawing reviews for two walls to protect existing Com Ed Towers on the west side of Rt. 83, including temporary measures required during construction. It is assumed that Com Ed will supply Benesch with dynamic and static loadings at each tower. Benesch will then

perform a dynamic analysis of the Com Ed towers and evaluate their reaction with proposed retaining wall. The results will be evaluated in a Value Engineering format and recommendations presented for LCDOT and Com Ed's concurrence.

### 6.4 IL Rte 83 Walls

This scope of work includes the plans, specifications and shop drawing reviews for Wall G at the southwest corner of Rt. 83 and Hook Road, including the temporary excavation support systems which may be required during construction. It also includes plans, specifications and shop drawing reviews for Wall H at the southeast corner of Rt. 83 and Rollins Road, including the temporary excavation support systems which may be required during construction.

### 6.5 Temporary Structures

This scope includes the plans, specifications and shop drawing reviews for the following items:

- Temporary roadway bridge over Rollins Road as shown in Exhibit A
- Temporary sheeting walls for CN Railroad Bridge Construction as shown in Exhibit A
- Temporary sheeting walls for roadway construction as shown in Exhibit A (Rollins Rd. & Rt. 83)

This scope of work does not include the following items:

- The temporary bridge superstructure will not be designed. A performance specification for the bridge superstructure design will be used.

## 7.0 Public Involvement:

This scope of work involves continuing to communicate with the stakeholders who have supported the project through the use of the project website and newsletters(2).

In addition this task involves the continued involvement of the Area Business Task Force throughout the Phase II design process. The following meetings are anticipated:

Aesthetic Coordination Meeting No. 1 – A working session to investigate the range of possible aesthetic and landscaping treatments. The session will be used to evaluate the groups preferences and willingness to support/maintain various elements which may be incorporated into the project.

Aesthetic Coordination Meeting No. 2 – Presentation of alternatives including cost and maintenance cost participation considerations. The goal of this meeting will be to establish the landscaping and aesthetics to be incorporated into the project.

Plan Review Meetings – It is anticipated that the project team will meet with the Area Business Task Force at each of the key project milestones (Preliminary, Pre-Final and Final) to communicate the development of the plan details. Particular points of interest to be discussed at these meetings include impacts to signage, parking lot modifications, access during construction.

Construction Marketing Plan – A plan template identifying marketing opportunities for local businesses will be developed. The plan will identify opportunities for advertising – Locations along the construction fencing and walls can be made available to allow for temporary signage/advertising to provide customer contact and messages adjacent to the travelling public, serving as reminder advertising that businesses are open during this community upgrade

**8.0 Submittals (plans, specifications and estimates):**

The scope of work consists of efforts to assemble and package the plans, specifications and estimate of costs for the defined submittals to the County, utility companies, railroads and to IDOT. The following submittals are anticipated:

- Preliminary (60%)
- Pre-Final (90%)
- Final (100%)

This scope of work covers the final submittal requirements for either an IDOT (Federal Fund) letting or Lake County (Local Fund Letting) in both hard and electronic formats. The electronic bid package will be prepared in accordance with the LCDOT guideline.

**9.0 Quality Assurance/Quality Control**

The development of a Quality Management Plan (QMP) is included with the proposed administration scope. Also included is the effort to implement the plan during the Phase II schedule. Quality Assurance at Benesch involves a commitment to provide the County with a project that satisfies your needs. Included in this broad goal of satisfaction are:

- timely coordination with LCDOT;
- development of cost-effective solutions;
- documentation of key decisions; and
- adherence to schedule.

Benesch's Quality Management Plan (QMP) procedures are compatible with the County's QA/QC program. This process is initiated with the development of the work plan that is used as the basis for the QMP. The QMP will define the procedures used to control and insure the quality of the preliminary engineering. The draft QMP will be submitted after notice to proceed and the Final QMP incorporating comments by the County; will be submitted within two weeks of receipt of comments. The QMP will address the following:

- management responsibility;
- design standards and documents;
- document control;
- process control;
- review of preliminary engineering; and quality records; and
- audit procedures.

A key element to the successful implementation of the QMP is the active preparation of the Quality Management Team (QMT). The QMT is composed of senior members of the project team's staff who are not directly responsible for production of the project. The QMT will meet with the project manager and the project design team at an initial start-up meeting,

during which the key technical issues are discussed and the production schedule is established.

Throughout the duration of this project, the lead member of the QMT will meet with the project manager monthly to review:

- the key decisions made since the last meeting;
- project staffing issues;
- the schedule of the work; and
- any changes in the scope of work that impact on previous technical decisions.

Through this active participation, the QMT will assure that the QMP is followed.

The third major function of the QMT is to perform an independent review of all plans prior to submittal. The purpose of this review is to look for inconsistencies in the information presented and to spot check design details for constructability problems.

## 10.0 Project Administration

Administration consists of the following project management responsibilities to ensure a quality product on schedule and within budget:

- MS Project Plan including baseline and critical path shown,
- invoicing (Progress Report BDE 430)
- staffing resource management
- internal project team meetings
- preparation of the Project Management Plan which includes the Quality Management Plan
- preparation and distribution of correspondence, meeting minutes, records of conversation and all other project documentation necessary to track and document the project decisions
- coordination with the Challenge Bond Program Manager including monthly status meetings.

Project Management will be performed within the communication channels established by the Challenge Bond Program Organization Chart.

Benesch will prepare progress reports and invoices on a four-week cycle. These progress reports and invoices will be issued using IDOT BDE 430 form. The percent complete shown on the form shall be in agreement with MS Project percent complete reported on a monthly basis.

Benesch will prepare the design project schedule in MS Project format, including a breakdown of the major tasks depicting the project's key milestones and deliverables for Phase II. The schedule will be updated monthly and at a minimum, will include:

- milestones of key decisions
- submittals of project documents for County review and IDOT review
- receipt of review comments
- submittals of documents for permit review
- progress meetings

- agency review meetings

## 11.0 Survey

This work will be performed in accordance with LCDOT survey procedures. The scope of this work specifically includes the following.

- Pick-Up additional topography for interconnect to the Hainesville/Shorewood Signal. Scope of work includes pick up of topographic feature from Centerline of Roadway to East Right-of-Way line.

- Survey of Com Ed Transmission Lines to determine dynamic envelope of lines. This survey will locate the transmission lines in 3 dimensions. The survey will be utilized to evaluate construction constraints associated with "piling/sheeting" work under the transmission lines. This work will also be incorporated into the construction documents for the contractors use during the bidding process.

## 12.0 Land Acquisition Support Services

Cost of Land Acquisition Support Services will be included as a direct cost to the project.

# Estimated Hours and Costs
# (Alfred Benesch and Company)

# EXHIBIT A

## Lake County Division of Transportation - Rollins Road Gateway Project
## Phase II Scope of Work & Estimate of Staff-hours

| ITEM | | | TOTALS |
|---|---|---|---|
| 1.0 | VALUE ENGINEERING | | 324 |
| 2.0 | PROJECT COORDINATION | | 1360 |
| 3.0 | COST MANAGEMENT | | 168 |
| 4.0 | CIVIL PLANS | | 11800 |
| 4.1 | ROADWAY PLANS | 2768 | |
| 4.2 | DRAINAGE AND UTILITY PLANS | 1952 | |
| 4.3 | EROSION CONTROL AND SEDIMENT PLANS | 648 | |
| 4.4 | STAGING AND TRAFFIC CONTROL | 3032 | |
| 4.5 | PAVEMENT MARKING AND SIGNING PLANS | 412 | |
| 4.6 | TRAFFIC SIGNALS, LIGHTING AND ITS PLANS | 1956 | |
| 4.7 | RAILROAD TRACK PLANS | 1032 | |
| 5.0 | LANDSCAPING PLANS | | 376 |
| 6.0 | STRUCTURAL PLANS | | 7412 |
| 6.1 | CN BRIDGE OVER ROLLINS ROAD | 2496 | |
| 6.2 | CN RETAINING WALLS | 936 | |
| 6.3 | COM ED TOWER WALLS | 990 | |
| 6.4 | IL RTE 83 WALLS | 658 | |
| 6.5 | TEMPORARY STRUCTURES | 2332 | |
| 7.0 | PUBLIC INVOLVEMENT | | 436 |
| 8.0 | SUBMITTALS | | 360 |
| 9.0 | QUALITY ASSURANCE | | 540 |
| 10.0 | ADMINISTRATION | | 716 |
| 11.0 | SURVEY | | 120 |
| | | | 23612 |

# 1.0 VALUE ENGINEERING

| Item | Engr | CAD | TOTAL |
|---|---|---|---|
| Value Engineering Workshop | 200 | | 200 |
| Value Engineering Exhibits | | 40 | 40 |
| Value Engineering Report | 30 | 10 | 40 |
| VE Review Meeting | 8 | | 8 |
| Finalize Value Engineering Report | 24 | 12 | 36 |

**324**

# 2.0 PROJECT COORDINATION

| Item | No. of Meetings | Hours per meeting | TOTAL |
|---|---|---|---|
| **Coordination with LCDOT (2 hours per week)** | | | 208 |
| **Meetings with IDOT** | 6 | 8 | 48 |
| **Meetings with LCDOT/Program Manager** | 36 | 8 | 288 |
| **Meetings with Round Lake Beach** | 4 | 8 | 32 |
| **Meetings with Greater Round Lake Beach Park Dist.** | 2 | 8 | 16 |
| **Meetins with Lake County SMC** | 4 | 8 | 32 |
| **Meetings with Com Ed** | 8 | 16 | 128 |
| **Miscellaneous exhibits** | | | 60 |
| **ICC coordination - Temp at grade crossing** | | | |
| Coordination | | | 120 |
| Exhibits | | | 80 |
| **Coordination with RR** | | | |
| Meetings | 18 | 16 | 288 |
| Exhibits for CN | | | 60 |

**1360**

# 3.0 COST MANAGEMENT

| Item | TOTAL |
|---|---|
| Develop cost estimate for preliminary submittal | 80 |
| Update cost estimate for prefinal submittal | 24 |
| Update cost estimate for final submittal | 24 |
| Railroad Cost Participation Estimates | 40 |
| | **168** |

## 4.1 ROADWAY PLANS

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| **GENERAL PLAN SHEETS** | | | | **52** |
| Cover Sheet | 1 | 12 | 12 | |
| Index of Sheets | 1 | 16 | 16 | |
| Standard Sheets | 1 | 12 | 12 | |
| General Notes & Commitments | 1 | 12 | 12 | |
| **SUMMARY AND SCHEDULE OF QUANTITIES (not quantity take-offs)** | | | | **264** |
| Summary of Quantities | 2 | 24 | 48 | |
| Schedules | 6 | 36 | 216 | |
| **TYPICAL SECTIONS (Ex. and Proposed)*** | | | | **148** |
| Rollins Road (4 sections) | 2 | 24 | 48 | |
| IL Rte 83 (4 Sections) | 2 | 24 | 48 | |
| Hainesville Road (2 Sections) | 1 | 24 | 24 | |
| Round Lake Commons | 1 | 16 | 16 | |
| Hook Drive | 1 | 12 | 12 | |
| * Hours include proposed pavement design | | | | |
| **ALIGNMENT, TIES AND BENCHMARKS** | 4 | 16 | 64 | **64** |
| **PLAN & PROFILE SHEETS** | | | | **800** |
| Rollins Road | 6 | 24 | 144 | |
| IL Rte 83 | 7 | 24 | 168 | |
| Hainesville Road | 3 | 24 | 72 | |
| Round Lake Commons | 2 | 24 | 48 | |
| Hook Drive | 2 | 24 | 48 | |
| Quantity Calculations | | | 240 | |
| Special Provisions | | | 80 | |
| **INTERSECTION DETAILS** | | | | **128** |
| Claredon & Hainesville | 1 | 16 | 16 | |
| Rollins & Hainesville | 1 | 24 | 24 | |
| Rollins & IL Rte 83 | 1 | 40 | 40 | |
| Rollins & Round Lake Commons | 1 | 24 | 24 | |
| IL Rte 83 & Hook Drive | 1 | 24 | 24 | |
| **REMOVAL PLANS** | | | | **384** |
| Rollins Road | 6 | 16 | 96 | |
| IL Rte 83 | 7 | 16 | 112 | |
| Hainesville Road | 3 | 16 | 48 | |
| Round Lake Commons | 2 | 16 | 32 | |
| Hook Drive | 2 | 16 | 32 | |
| Hainesville Residences | 1 | 16 | 16 | |
| Rollins & IL Rte 83 NE Quad | 1 | 16 | 16 | |
| Rollins & IL Rte 83 NW Quad | 1 | 16 | 16 | |
| Rollins & IL Rte 83 SE Quad | 1 | 16 | 16 | |
| **DETAILS - ROADWAY** | | | | **48** |
| Various | 3 | 16 | 48 | |
| **CROSS SECTIONS** | | | | **800** |
| Rollins Road | 30 | 8 | 240 | |
| IL Rte 83 | 40 | 8 | 320 | |
| Hainesville Road | 14 | 8 | 112 | |
| Round Lake Commons | 8 | 4 | 32 | |
| Hook Drive | 4 | 4 | 16 | |
| Staged Earth Quantity Calculations & Earthwork | 1 | | 80 | |
| **SPECIAL PROVISIONS** | | | | **80** |

**2768**

# 4.2 DRAINAGE AND UTILITY PLANS

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| | | | | |
| **SCHEDULES** | | | | **144** |
| **(not quantity take-offs)** | | | | |
| Drainage Schedules | 4 | 24 | 96 | |
| Water Main Schedules | 2 | 24 | 48 | |
| | | | | |
| **DRAINAGE PLAN & PROFILE SHEETS** | | | | **768** |
| Rollins Road | 6 | 40 | 240 | |
| IL Rte 83 | 7 | 40 | 280 | |
| Hainesville Road | 3 | 40 | 120 | |
| Round Lake Commons | 2 | 24 | 48 | |
| Quantity Calculations | | | 80 | |
| | | | | |
| **DRAINAGE REMOVAL PLANS** | | | | **464** |
| Rollins Road | 6 | 24 | 144 | |
| IL Rte 83 | 7 | 24 | 168 | |
| Hainesville Road | 3 | 24 | 72 | |
| Round Lake Commons | 2 | 24 | 48 | |
| Hook Drive | 2 | 16 | 32 | |
| | | | | |
| **DETAILS - DRAINAGE** | | | | **192** |
| Detention Basin Grading | 1 | 40 | 40 | |
| Rollins North Ditch Basins | 2 | 20 | 40 | |
| Gateway Park Grading | 1 | 40 | 40 | |
| Outlet Structures | 1 | 40 | 40 | |
| Miscellaneous | 2 | 16 | 32 | |
| | | | | |
| **WATERMAIN PLAN & PROFILE SHEETS** | | | | **352** |
| Rollins Road | 4 | 40 | 160 | |
| IL Rte 83 | 2 | 40 | 80 | |
| Hainesville Road | 2 | 40 | 80 | |
| | | | | |
| **WATERMAIN DETAILS** | | | | **32** |
| Miscellaneous | 2 | 16 | 32 | |

**1952**

# 4.3 EROSION CONTROL AND SEDIMENT PLANS

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| **EROSION CONTROL** | | | | **648** |
| Schedule & Notes | 2 | 16 | 32 | |
| Plan | 67 | 8 | 536 | |
| Details | 5 | 8 | 40 | |
| Quantity calculations | | | 24 | |
| Special Provisions | | | 16 | |

**648**

# 4.4 STAGING AND TRAFFIC CONTROL

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| | | | | |
| **Overall Sequencing Plans** | 6 | 80 | 480 | **480** |
| | | | | |
| **M.O.T. Typical Sections** | 12 | 16 | 192 | **192** |
| | | | | |
| **Stage 1 Plan Sheets** | | | | **584** |
| Rollins Road | 6 | 24 | 144 | |
| IL Rte 83 | 2 | 24 | 48 | |
| Temp Rollins Road P&P | 3 | 24 | 72 | |
| Temp Rollins Road Cross Sections | 20 | 16 | 320 | |
| | | | | |
| **Stage 2A Plan Sheets** | | | | **692** |
| Rollins Road | 8 | 12 | 96 | |
| IL Rte 83 | 9 | 12 | 108 | |
| Hainesville Road | 4 | 24 | 96 | |
| Temp IL Rte 83 P&P | 3 | 24 | 72 | |
| Temp IL Rte 83 Cross Sections | 20 | 16 | 320 | |
| | | | | |
| **Stage 2B Plan Sheets** | | | | **108** |
| IL Rte 83 | 9 | 12 | 108 | |
| | | | | |
| **Stage 3 Plan Sheets** | | | | **96** |
| Rollins Road | 4 | 24 | 96 | |
| | | | | |
| **Stage 4 Plan Sheets** | | | | **192** |
| Rollins Road | 4 | 24 | 96 | |
| Hainesville Road | 4 | 24 | 96 | |
| | | | | |
| **Stage 5 Plan Sheets** | | | | **408** |
| Rollins Road | 8 | 24 | 192 | |
| IL Rte 83 | 9 | 24 | 216 | |
| | | | | |
| **Detour plan** | 2 | 40 | 80 | **80** |
| **Estimate of Time Construciton Duration** | | | | **80** |
| **M.O.T. Quantity Calculations** | | | | **40** |
| **M.O.T. Specifications** | | | | **80** |

**3032**

# 4.5 PAVEMENT MARKING AND SIGNING PLANS

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| **PLAN** | | | | **372** |
| Rollins Road | 3 | 36 | 108 | |
| IL Rte 83 | 3 | 36 | 108 | |
| Hainesville Road | 1 | 36 | 36 | |
| Round Lake Commons | 1 | 24 | 24 | |
| Hook Drive | 1 | 16 | 16 | |
| RLC North Parking Lot | 1 | 40 | 40 | |
| RLC South Parking Lot | 1 | 40 | 40 | |
| | | | | |
| Quantity Calculations | | | | 40 |

**412**

## 4.6 TRAFFIC SIGNAL, LIGHTING AND ITS PLANS

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| **Index of Sheets, General Electrical and Construction Notes** | 1 | 24 | 24 | **24** |
| **Proposed Signal Plan Sheets** | | | | **220** |
| Mallard Creek & Rollins Road | 1 | 40 | 40 | |
| Hainesville Road & Rollins Road | 1 | 40 | 40 | |
| IL Rte 83 & Rollins Road | 1 | 60 | 60 | |
| Round Lake Commons & Rollins Road | 1 | 40 | 40 | |
| Hook Drive & Rollins Road | 1 | 40 | 40 | |
| **Proposed Wiring Diagrams** | 5 | 24 | 120 | **120** |
| **Existing and Removal** | | | | **80** |
| Mallard Creek & Rollins Road | 1 | 16 | 16 | |
| Hainesville Road & Rollins Road | 1 | 16 | 16 | |
| IL Rte 83 & Rollins Road | 1 | 16 | 16 | |
| Round Lake Commons & Rollins Road | 1 | 16 | 16 | |
| Hook Drive & Rollins Road | 1 | 16 | 16 | |
| **Electrical Details** | 4 | 12 | 48 | **48** |
| **Temporary Signal Plan** | | | | **144** |
| Mallard Creek & Rollins Road | 1 | 24 | 24 | |
| Hainesville Road & Rollins Road | 1 | 24 | 24 | |
| IL Rte 83 & Rollins Road | 1 | 24 | 24 | |
| Round Lake Commons & Rollins Road | 1 | 24 | 24 | |
| Hook Drive & Rollins Road | 1 | 24 | 24 | |
| Preemption Sequence of Operations | 1 | 24 | 24 | |
| **Temporary Wiring Plan** | 5 | 24 | 120 | **120** |
| **Temp Interconnect Plan** | | | | **160** |
| Rollins Road (Mallard Creek to Round Lake Commons) | 3 | 16 | 48 | |
| IL Rte 83 (Hook to IL Rte 83 | 3 | 16 | 48 | |
| Hainesville Road (Rollins to Shorewood) | 4 | 16 | 64 | |
| **Permanent Interconnect Plan** | | | | **160** |
| Rollins Road (Mallard Creek to Round Lake Commons) | 3 | 16 | 48 | |
| IL Rte 83 (Hook to IL Rte 83 | 3 | 16 | 48 | |
| Hainesville Road (Rollins to Shorewood) | 4 | 16 | 64 | |
| **Proposed Intersection Lighting Plan** | | | | **160** |
| Hainesville Road & Rollins Road | | | 80 | |
| Round Lake Commons & Rollins Road | | | 80 | |
| **Proposed Parking Lot Lighting Modificaitons** | | | | **400** |
| Mallard Creek | 2 | 40 | 80 | |
| Round Lake Commons North | 4 | 40 | 160 | |
| Round Lake Commons South | 4 | 40 | 160 | |
| **Proposed Lighting at CN Bridge** | | | | **120** |
| Bridge Lighting | 3 | 40 | 120 | |
| **HARS Tower Relocation** | 2 | 40 | 80 | **80** |
| **Quantity Calculations and Electrical SOQ** | | | | **120** |

**1956**

# 4.7 RAILROAD TRACK PLANS

| Items | | No. of Drawings | Hours/Drawing | Total Hours |
|---|---|---|---|---|
| **Plan production** | | | | |
| | Schedules | 2 | 24 | 48 |
| | Alignment and Ties | 1 | 24 | 24 |
| | Typical Sections | 2 | 24 | 48 |
| | Track Plan and Profile | 4 | 40 | 160 |
| | Staging Plans | 8 | 40 | 120 |
| | Cross Sections | 22 | 24 | 528 |
| | Temporary Crossing Detail | 1 | 40 | 40 |
| | Std. Details | 2 | 12 | 24 |
| | | | | |
| Special Provisions | | | | 40 |

**1032**

# 5.0 LANDSCAPING PLANS

| ITEMS AND TASKS | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | ITEM TOTALS |
|---|---|---|---|---|
| **LANDSCAPING PLANS** | | | | **376** |
| Plan Sheets | 11 | 24 | 264 | |
| Detail Sheets | 2 | 16 | 32 | |
| Specs | | | 40 | |
| Quantity Calculations | | | 40 | |

**376**

## 6.1 CN BRIDGE OVER ROLLINS ROAD

| GENERAL | | | | Item Total |
|---|---|---|---|---|
| ELEMENT SPECIFIC VE SESSION | | | | 60 |
| QUANTITIES | | | | 60 |
| SPECIAL PROVISIONS | | | | 40 |
| COST ESTIMATE | | | | 24 |
| | | | GENERAL TOTAL = | 184 |

| PLAN DEVELOPMENT | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | Item Total |
|---|---|---|---|---|
| GENERAL PLAN AND ELEVATION | 1 | 60 | 60 | 60 |
| GENERAL NOTES & QUANTITIES | 1 | 52 | 52 | 52 |
| PROFILES | 1 | 34 | 34 | 34 |
| LOG OF BORINGS | 8 | 4 | 32 | 32 |
| SOUTH ABUTMENT PILE LAYOUT | 1 | 52 | 52 | 52 |
| SOUTH ABUTMENT FOOTING | 1 | 52 | 52 | 52 |
| SOUTH ABUTMENT STEM | 1 | 52 | 52 | 52 |
| SOUTH ABUTMENT BACKWALL | 1 | 52 | 52 | 52 |
| SOUTH ABUTMENT SECTIONS | 1 | 52 | 52 | 52 |
| SOUTH ABUTMENT DETAILS | 1 | 52 | 52 | 52 |
| NORTH ABUTMENT PILE LAYOUT | 1 | 44 | 44 | 44 |
| NORTH ABUTMENT FOOTING | 1 | 44 | 44 | 44 |
| NORTH ABUTMENT STEM | 1 | 44 | 44 | 44 |
| NORTH ABUTMENT BACKWALL | 1 | 44 | 44 | 44 |
| NORTH ABUTMENT SECTIONS | 1 | 44 | 44 | 44 |
| NORTH ABUTMENT DETAILS | 1 | 44 | 44 | 44 |
| DECK CROSS SECTION | 1 | 50 | 50 | 50 |
| FRAMING PLAN | 1 | 65 | 65 | 65 |
| INTERIOR GIRDER G1 DETAILS 1 | 1 | 56 | 56 | 56 |
| EXTERIOR GIRDER G2 DETAILS 1 | 1 | 56 | 56 | 56 |
| DESIGN DATA | 1 | 65 | 65 | 65 |
| INTERIOR GIRDER G1 DETAILS 2 | 1 | 56 | 56 | 56 |
| EXTERIOR GIRDER G2 DETAILS 2 | 1 | 56 | 56 | 56 |
| END FLOORBEAM | 1 | 50 | 50 | 50 |
| END FLOORBEAM JACKING DETAILS | 1 | 50 | 50 | 50 |
| UPPER FLOOR PLATE AT EXT. GIRDERS | 1 | 50 | 50 | 50 |
| UPPER FLOOR PLATE DETAILS | 1 | 50 | 50 | 50 |
| FLOOR PLATES | 1 | 50 | 50 | 50 |
| BALLAST STOP PLATE DETAILS | 1 | 50 | 50 | 50 |
| FLOOR PLATE DETAILS | 1 | 50 | 50 | 50 |
| DECK DETAILS | 1 | 46 | 46 | 46 |
| TRACTION BRACING DETAILS | 1 | 46 | 46 | 46 |
| WALKWAY DETAILS | 2 | 48 | 96 | 96 |
| HANDRAIL DETAILS | 2 | 44 | 88 | 88 |
| DRAINAGE DETAILS | 1 | 44 | 44 | 44 |
| DRAINAGE PLAN | 1 | 44 | 44 | 44 |
| ABUTMENT "DOUBLE" BEARING | 1 | 54 | 54 | 54 |
| ABUTMENT "SINGLE" BEARING | 1 | 54 | 54 | 54 |
| END FLOORBEAM BEARING | 1 | 48 | 48 | 48 |
| SHEET TOTAL = | 48 | | PLAN TOTAL = | 2028 |

| SHOP DRAWING REVIEW | | | | Item Total |
|---|---|---|---|---|
| RESPONSE TO RFI'S | | | | 40 |
| REVIEW DESIGN CHANGES | | | | 40 |
| BEARINGS | | | | 16 |
| STRUCTURAL STEEL | | | | 60 |
| DECK WATERPROOFING | | | | 8 |
| DECK DRAINS | | | | 8 |
| WALKWAYS | | | | 8 |
| RAILINGS | | | | 8 |
| CONCRETE REINFORCEMENT | | | | 24 |
| CONCRETE MIXTURES | | | | 24 |
| FOUNDATION SYSTEM | | | | 32 |
| SUBSTRUCTURE DRAINAGE | | | | 16 |
| | | | SHOP DRAWING REVIEW TOTAL = | 284 |

TASK TOTAL = 2496

## 6.2 CN RETAINING WALLS

| PLAN DEVELOPMENT | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | Item Total |
|---|---|---|---|---|
| | | | | |
| RETAINING WALLS GENERAL PLAN | 1 | 48 | 48 | 48 |
| RETAINING WALLS - GENERAL NOTES AND QUANTITIES | 1 | 42 | 42 | 42 |
| WALL A - GP&E | 1 | 40 | 40 | 40 |
| WALL A - FOOTING AND ELEVATIONS | 1 | 40 | 40 | 40 |
| WALL A - SECTIONS AND DETAILS | 1 | 42 | 42 | 42 |
| WALL B - GP&E | 1 | 40 | 40 | 40 |
| WALL B - FOOTING AND ELEVATIONS | 3 | 40 | 120 | 120 |
| WALL B - SECTIONS AND DETAILS | 1 | 42 | 42 | 42 |
| WALL C - GP&E | 1 | 40 | 40 | 40 |
| WALL C - FOOTING AND ELEVATIONS | 1 | 40 | 40 | 40 |
| WALL C - SECTIONS AND DETAILS | 1 | 42 | 42 | 42 |
| WALL D - GP&E | 1 | 40 | 40 | 40 |
| WALL D - FOOTING AND ELEVATIONS | 1 | 40 | 40 | 40 |
| WALL D - SECTIONS AND DETAILS | 2 | 42 | 84 | 84 |
| STANDARD RETAINING WALL DETAILS | 1 | 34 | 34 | 34 |
| RUSTICATION DETAILS | 1 | 34 | 34 | 34 |
| | | | | |
| **SHEET TOTAL =** | **19** | | **PLAN TOTAL =** | **768** |

| SHOP DRAWING REVIEW | | | | Item Total |
|---|---|---|---|---|
| RESPONSE TO RFI'S | | | | 32 |
| REVIEW DESIGN CHANGES | | | | 32 |
| RAILINGS | | | | 8 |
| CONCRETE REINFORCEMENT | | | | 24 |
| CONCRETE MIXTURES | | | | 24 |
| FOUNDATION SYSTEM | | | | 32 |
| WALL DRAINAGE | | | | 16 |
| **SHOP DRAWING REVIEW TOTAL =** | | | | **168** |

**TASK TOTAL = 936**

# 6.3 COM ED TOWER WALLS

| GENERAL | | | | Item Total |
|---|---|---|---|---|
| ELEMENT SPECIFIC VE SESSION | | | | 60 |
| QUANTITIES | | | | 24 |
| SPECIAL PROVISIONS | | | | 30 |
| COST ESTIMATE | | | | 16 |
| TOWER DYNAMIC ANALYSIS | | | | 240 |
| | | | GENERAL TOTAL = | 370 |

| PLAN DEVELOPMENT | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | Item Total |
|---|---|---|---|---|
| BORING LOGS | 3 | 4 | 12 | 12 |
| TEMPORARY EARTH RETENTION DETAILS | 4 | 50 | 200 | 200 |
| WALL E - GP&E | 1 | 40 | 40 | 40 |
| WALL E - FOOTING AND ELEVATIONS | 2 | 36 | 72 | 72 |
| WALL E - SECTIONS AND DETAILS | 1 | 48 | 48 | 48 |
| WALL F - GP&E | 1 | 40 | 40 | 40 |
| WALL F - FOOTING AND ELEVATIONS | 2 | 36 | 72 | 72 |
| WALL F - SECTIONS AND DETAILS | 1 | 48 | 48 | 48 |
| | | | | |
| SHEET TOTAL = | 15 | | PLAN TOTAL = | 532 |

| SHOP DRAWING REVIEW | | | | Item Total |
|---|---|---|---|---|
| RESPONSE TO RFI'S | | | | 24 |
| REVIEW DESIGN CHANGES | | | | 24 |
| CONCRETE REINFORCEMENT | | | | 8 |
| CONCRETE MIXTURES | | | | 8 |
| FOUNDATION SYSTEM | | | | 16 |
| WALL DRAINAGE | | | | 8 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | SHOP DRAWING REVIEW TOTAL = | 88 |

**TASK TOTAL = 990**

# 6.4 IL-83 ROADWAY RETAINING WALL

| GENERAL | | | | Item Total |
|---|---|---|---|---|
| ELEMENT SPECIFIC VE SESSION | | | | 12 |
| QUANTITIES | | | | 8 |
| SPECIFICATIONS / SPECIAL PROVISIONS | | | | 12 |
| COST ESTIMATE | | | | 8 |
| | | | GENERAL TOTAL = | 40 |

| PLAN DEVELOPMENT | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | Item Total |
|---|---|---|---|---|
| BORING LOGS | 4 | 4 | 16 | 16 |
| WALL G - GP&E | 1 | 40 | 40 | 40 |
| WALL G - FOOTING AND ELEVATIONS | 3 | 34 | 102 | 102 |
| WALL G - SECTIONS AND DETAILS | 2 | 40 | 80 | 80 |
| TEMPORARY EARTH RETENTION DETAILS | 1 | 40 | 40 | 40 |
| EXISTING WALL REMOVAL DETAILS | 1 | 30 | 30 | 30 |
| | | | | |
| WALL H - GP&E | 1 | 40 | 40 | 40 |
| WALL H - FOOTING AND ELEVATIONS | 3 | 34 | 102 | 102 |
| WALL H - SECTIONS AND DETAILS | 1 | 40 | 40 | 40 |
| TEMPORARY EARTH RETENTION DETAILS | 1 | 40 | 40 | 40 |
| SHEET TOTAL = | 18 | | PLAN TOTAL = | 530 |

| SHOP DRAWING REVIEW | | | | Item Total |
|---|---|---|---|---|
| RESPONSE TO RFI'S | | | | 24 |
| REVIEW DESIGN CHANGES | | | | 24 |
| CONCRETE REINFORCEMENT | | | | 8 |
| CONCRETE MIXTURES | | | | 8 |
| FOUNDATION SYSTEM | | | | 16 |
| WALL DRAINAGE | | | | 8 |
| | | | | |
| | | | | |
| | | | | |
| | | | SHOP DRAWING REVIEW TOTAL = | 88 |

TASK TOTAL = 658

## 6.5 TEMPORARY STRUCTURES

| GENERAL | | | | Item Total |
|---|---|---|---|---|
| ELEMENT SPECIFIC VE SESSION | | | | 24 |
| QUANTITIES | | | | 24 |
| SPECIFICATIONS / SPECIAL PROVISIONS | | | | 30 |
| COST ESTIMATE | | | | 24 |
| | | | GENERAL TOTAL = | 102 |

| PLAN DEVELOPMENT | No. of Sheets | Hrs per Sheet | Task or Sheet Hours Extended | Item Total |
|---|---|---|---|---|
| TEMP. BRIDGE GP&E | 1 | 45 | 45 | 45 |
| PILE LAYOUT PLAN | 1 | 40 | 40 | 40 |
| ABUTMENT PLAN | 1 | 40 | 40 | 40 |
| SUPERSTRUCTURE | 2 | 14 | 28 | 28 |
| NE WINGWALL | 1 | 40 | 40 | 40 |
| SE WINGWALL | 1 | 40 | 40 | 40 |
| WINGWALL DETAILS | 1 | 45 | 45 | 45 |
| BORING LOGS | 4 | 4 | 16 | 16 |
| | | | | |
| TEMP. RR EARTH RET. SYSTEM - STAGE 1 | 4 | 65 | 260 | 260 |
| TEMP. RR EARTH RET. SYSTEM - STAGE 2A | 4 | 65 | 260 | 260 |
| TEMP. RR EARTH RET. SYSTEM - STAGE 2B | 4 | 40 | 160 | 160 |
| TEMP. RR EARTH RET. SYSTEM - STAGE 3 | 4 | 65 | 260 | 260 |
| TEMP. RR EARTH RET. SYSTEM - STAGE 4 | 1 | 40 | 40 | 40 |
| CONSTRUCTION STAGING - SHEET PILING DETAILS | 1 | 30 | 30 | 30 |
| CONSTRUCTION STAGING - TIE ROD DETAILS | 1 | 30 | 30 | 30 |
| CONSTRUCTION STAGING - GROUND ANCHOR NOTES | 1 | 30 | 30 | 30 |
| | | | | |
| TEMP. RDWY EARTH RET. SYSTEM - STAGE 2A | 3 | 40 | 120 | 120 |
| TEMP. RDWY EARTH RET. SYSTEM - STAGE 2B | 7 | 44 | 308 | 308 |
| TEMP. RDWY EARTH RET. SYSTEM - STAGE 3 | 2 | 40 | 80 | 80 |
| TEMP. RDWY EARTH RET. SYSTEM - STAGE 5 | 2 | 40 | 80 | 80 |
| CONSTRUCTION STAGING - SHEET PILING DETAILS | 1 | 30 | 30 | 30 |
| CONSTRUCTION STAGING - TIE ROD DETAILS | 1 | 30 | 30 | 30 |
| CONSTRUCTION STAGING - GROUND ANCHOR NOTES | 1 | 30 | 30 | 30 |
| SHEET TOTAL = | 49 | | PLAN TOTAL = | 2042 |

| SHOP DRAWING REVIEW | | | | Item Total |
|---|---|---|---|---|
| RESPONSE TO RFI'S | | | | 40 |
| REVIEW DESIGN CHANGES | | | | 60 |
| STEEL SHEET PILING | | | | 32 |
| ANCHORS / TIE RODS | | | | 32 |
| ANCHORAGE SYSTEMS | | | | 24 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | SHOP DRAWING REVIEW TOTAL = | 188 |

TASK TOTAL = 2332

# 7.0 PUBLIC INVOLVEMENT

| ITEMS | Images Totals | Benesch Totals |
|---|---|---|
| | | |
| Project Website Maintenance and Updates (8 hrs/month x 24 months) | | 192 |
| | | |
| Area Business Task Force | | |
| Aesthetic Coordination Meetings (2) | 80 | 40 |
| Preliminary Review Meeting | 40 | 16 |
| Pre-Final Review Meeting | 40 | 16 |
| Final Reveiw Meeting | 40 | 16 |
| | | |
| Newsletters (2) | 80 | 16 |
| | | |
| Construction Marketing Plan | 20 | 20 |
| | | |
| Visualization Techniques | | |
| 5 - 3D Renderings @ 16 hrs each | | 80 |
| 10 - 2D Exhibits @ 4 hrs each | | 40 |
| | | |
| **TOTAL** | **300** | **436** |

# 8.0 SUBMITTALS

| | 60% Submittal | Pre-Final Submittal | Final Submittal | Bid Submittal | Total |
|---|---|---|---|---|---|
| Lake County | 16 | 24 | 24 | 24 | 88 |
| IDOT | 16 | 24 | 24 | 24 | 88 |
| CN | 16 | 24 | 24 | 24 | 88 |
| Lake Stormwater | | 24 | 24 | | 48 |
| Lake Soil | | 24 | 24 | | 48 |
| **Total** | 48 | 120 | 120 | 72 | **360** |

## 9.0 QUALITY ASSURANCE

| | Hours -Civil | | | | Hours -Structural | | | |
|---|---|---|---|---|---|---|---|---|
| | Preliminary Submittal | Pre-Final Submittal | Final Submittal | Total | Preliminary Submittal | Pre-Final Submittal | Final Submittal | Total |
| Quality Management Plan | | | | 24 | | | | 16 |
| QA - CN Submittals | 12 | 16 | 8 | 36 | 16 | 40 | 40 | 96 |
| QA - Roadway | 78 | 130 | 52 | 260 | 12 | 36 | 36 | 84 |
| Field Checks | | 16 | | 16 | | 8 | | 8 |
| **SubTotal** | | | | **336** | | | | **204** |
| | | | | | | | **Total** | **540** |

# 10.0 ADMINISTRATION

| | Staff | Hours/ week | # of Weeks | Hours/ month | # of Months | Total |
|---|---|---|---|---|---|---|
| Project Start-up | 1 | 24 | 1 | | | 24 |
| Progress Reports (invoicing) | 1 | | | 4 | 24 | 96 |
| PMP (includes QMP) | 1 | 24 | 1 | | | 24 |
| Schedules/monitoring | 1 | 0.5 | 104 | | | 52 |
| internal project meetings (weekly) | 4 | 1 | 104 | | | 416 |
| Preparation and distribution of correspondence | 1 | 1 | 104 | | | 104 |

**716**

# 11.0 SURVEY

| Item | TOTAL |
|---|---|
| Hainesville Survey Extension to Shorewood | 40 |
| Com Ed Transmission Line Survey | 80 |
| | **120** |

# COST ESTIMATE OF CONSULTANT SERVICES

Sheet: 1 of 1

Project: Phase II Grade Separation of Rollins Road & CN Railroad

Section: 08-00080-56-BR  Firm: ALFRED BENESCH & COMPANY  Date: February 22, 2011

County: Lake

Job No.:  Overhead Rate: 151.68  Complexity Factor: 0

Estimate Prepared By:  State  Firm X

| Item | Number of Staff hours (A) | Estimated Cost In Dollars: Adjusted Hourly Rate (A1) | Payroll (B) | Overhead Fringe Benefits (C) | Eligible Direct Costs (D) | Subtotal (E) | Profit (F) | Ineligible Direct Costs (D1) | Services By Others* (G) | Total (H) | Percent Of Grand Total (I) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **PROJECT TASKS** | | | | | | | | | | | |
| 1.0 Value Engineering | 324 | 42.81 | 13,871 | 21,039 | 0 | 34,910 | 5,062 | 0 | | 39,972 | 1.3 |
| 2.0 Project Coordination | 1,360 | 38.03 | 51,718 | 78,446 | 0 | 130,164 | 18,874 | 2,988 | | 152,026 | 5.1 |
| 3.0 Cost Management | 168 | 37.64 | 6,324 | 9,592 | 0 | 15,916 | 2,308 | 0 | | 18,223 | 0.6 |
| 4.0 Civil Plans | 11,800 | 36.07 | 425,581 | 645,521 | 30,186 | 1,101,289 | 159,687 | 17,563 | | 1,278,538 | 43.0 |
| 5.0 Landscaping Plans | 376 | 36.31 | 13,652 | 20,708 | 0 | 34,360 | 4,982 | 0 | | 39,343 | 1.3 |
| 6.0 Structural Plans | 7,412 | 37.70 | 279,449 | 423,868 | 7,722 | 711,038 | 103,101 | 4,581 | | 818,719 | 27.5 |
| 7.0 Public Involvement | 436 | 37.42 | 16,316 | 24,748 | 0 | 41,064 | 5,954 | 135 | 45,242 | 92,395 | 3.1 |
| 8.0 Submittals | 360 | 36.04 | 12,975 | 19,681 | 0 | 32,656 | 4,735 | 0 | | 37,391 | 1.3 |
| 9.0 Quality Assurance | 540 | 40.77 | 22,015 | 33,393 | 0 | 55,408 | 8,034 | 0 | | 63,442 | 2.1 |
| 10.0 Administration | 716 | 41.78 | 29,914 | 45,374 | 0 | 75,288 | 10,917 | 0 | | 86,204 | 2.9 |
| 11.0 Survey | 120 | 36.64 | 4,397 | 6,669 | 0 | 11,066 | 1,605 | 0 | | 12,671 | 0.4 |
| 12.0 Land Acquisition Assistance | | | | | | | | 335,640 | | 335,640 | 11.3 |
| Sub-totals | 23,612 | | 876,212 | 1,329,038 | 37,908 | 2,243,158 | 325,258 | 360,907 | 45,242 | 2,974,565 | 100.0 |

* See attached sheets for Cost Estimate of Sub-consultant Services

# AVERAGE HOURLY PROJECT RATES

Project: Phase II Grade Separation of Rollins Road & CN Railroad

Section: 08-00080-56-BR

County: Lake

Job No.:

Firm: ALFRED BENESCH & COMPANY

Date: February 22, 2011

Sheet: 1 of 3

| PAYROLL CLASSIFICATION | AVERAGE HOURLY RATES* (2011) | 1.0 Value Engineering | | | 2.0 Project Coordination | | | 3.0 Cost Management | | | 4.0 Civil Plans | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE |
| SR. PROJECT MANAGER | $64.75 | 65 | 20.00 | $12.95 | 2 | 5.00 | $3.24 | 0 | 0.00 | $0.00 | 236 | 2.00 | 1.30 |
| PROJECT MANAGER I | $47.19 | 32 | 10.00 | $4.72 | 340 | 25.00 | $11.80 | 34 | 20.00 | 9.44 | 944 | 8.00 | 3.78 |
| SR. PROJECT ENGINEER | $43.90 | 32 | 10.00 | $4.39 | 136 | 10.00 | $4.39 | 17 | 10.00 | 4.39 | 1,180 | 10.00 | 4.39 |
| PROJECT ENGINEER II | $38.62 | 36 | 11.00 | $4.25 | 136 | 10.00 | $3.86 | 17 | 10.00 | 3.86 | 1,180 | 10.00 | 3.86 |
| PROJECT ENGINEER I | $33.87 | 0 | 0.00 | $0.00 | 136 | 10.00 | $3.39 | 84 | 50.00 | 16.94 | 1,180 | 10.00 | 3.39 |
| SR. DESIGNER | $34.95 | 65 | 20.00 | $6.99 | | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 1,770 | 15.00 | 5.24 |
| DESIGNER II | $30.67 | 0 | 0.00 | $0.00 | | 10.00 | $3.07 | 0 | 0.00 | 0.00 | 2,360 | 20.00 | 6.13 |
| SR. TECHNICAL SPECIALIST | $35.85 | 62 | 19.00 | $6.81 | | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 0 | | 0.00 |
| SR. TECHNOLOGIST | $35.85 | 0 | 0.00 | $0.00 | | 10.00 | $3.59 | 0 | 0.00 | 0.00 | 1,770 | 15.00 | 5.38 |
| TECHNOLOGIST SPECIALIST I | $24.60 | 0 | | $0.00 | | 0.00 | $0.00 | 17 | 10.00 | 2.46 | 0 | 0.00 | 0.00 |
| PROJECT ASSISTANT I | $20.70 | 32 | 10.00 | $2.07 | 272 | 20.00 | $4.14 | 0 | 0.00 | 0.00 | 1,180 | 10.00 | 2.07 |
| | | | | | | | | | | | | | |
| Sub-Totals | | 324 | 100.00 | 42.18 | 1,360 | 100.00 | 37.47 | 168 | 100.00 | 37.09 | 11,800 | 100.00 | 35.53 |
| WGTD RATE WITH ESCALATION* | 1.50% | | | $42.81 | | | $38.03 | | | $37.64 | | | $36.07 |

# AVERAGE HOURLY PROJECT RATES

Project: Phase II Grade Separation of Rollins Road & CN Railroad

Section: 08-00080-56-BR

County: Lake

Firm: ALFRED BENESCH & COMPANY

Date: February 22, 2011

Job No.:

Sheet: 2 of 3

| PAYROLL CLASSIFICATION | AVERAGE HOURLY RATES* (2011) | 5.0 Landscaping Plans | | | 6.0 Structural Plans | | | 7.0 Public Involvement | | | 8.0 Submittals | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE |
| SR. PROJECT MANAGER | $64.75 | 19 | 5.00 | $3.24 | 371 | 5.00 | 3.2375 | 44 | 10.00 | $6.48 | 7 | 2.00 | 1.30 |
| PROJECT MANAGER I | $47.19 | 19 | 5.00 | $2.36 | 741 | 10.00 | $4.72 | 44 | 10.00 | 4.72 | 47 | 13.00 | 6.13 |
| SR. PROJECT ENGINEER | $43.90 | 0 | 0.00 | $0.00 | 741 | 10.00 | $4.39 | 44 | 10.00 | 4.39 | 0 | 0.00 | 0.00 |
| PROJECT ENGINEER II | $38.62 | 38 | 10.00 | $3.86 | 741 | 10.00 | $3.86 | 0 | 0.00 | 0.00 | 0 | | 0.00 |
| PROJECT ENGINEER I | $33.87 | 38 | 10.00 | $3.39 | 741 | 10.00 | $3.39 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| SR. DESIGNER | $34.95 | 56 | 15.00 | $5.24 | 1,112 | 15.00 | $5.24 | 44 | 10.00 | 3.50 | 144 | 40.00 | 13.98 |
| DESIGNER II | $30.67 | 38 | 10.00 | $3.07 | 741 | 10.00 | $3.07 | 44 | 10.00 | 3.07 | 36 | 10.00 | 3.07 |
| SR. TECHNICAL SPECIALIST | $35.85 | 38 | 10.00 | $3.59 | 741 | 10.00 | $3.59 | 44 | 10.00 | 3.59 | 0 | 0.00 | 0.00 |
| SR. TECHNOLOGIST | $35.85 | 94 | 25.00 | $8.96 | 741 | 10.00 | $3.59 | 65 | 15.00 | 5.38 | 90 | 25.00 | 8.96 |
| TECHNOLOGIST SPECIALIST I | $24.60 | 0 | 0.00 | $0.00 | 0 | 0.00 | $0.00 | 65 | 15.00 | 3.69 | 0 | 0.00 | 0.00 |
| PROJECT ASSISTANT I | $20.70 | 38 | 10.00 | $2.07 | 741 | 10.00 | $2.07 | 44 | 10.00 | 2.07 | 36 | 10.00 | 2.07 |
| | | | | | | | | | | | | | |
| Sub-Totals | | 376 | 100.00 | 35.77 | 7,412 | 100.00 | 37.15 | 436 | 100.00 | 36.87 | 360 | 100.00 | 35.51 |
| WGTD RATE WITH ESCALATION* | 1.50% | | | $36.31 | | | $37.70 | | | $37.42 | | | $36.04 |

# AVERAGE HOURLY PROJECT RATES

Project: Phase II Grade Separation of Rollins Road & CN Railroad

Section: 08-00080-56-BR

County: Lake

Job No.:

Firm: ALFRED BENESCH & COMPANY

Date: February 22, 2011

Sheet: 3 of 3

| PAYROLL CLASSIFICATION | AVERAGE HOURLY RATES* (2011) | 9.0 Quality Assurance | | | 10.0 Administration | | | 11.0 Survey | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE | HOURS | % PART | WGTD RATE |
| | | | | | | | | | | | | | |
| SR. PROJECT MANAGER | $64.75 | 54 | 10.00 | $6.48 | 72 | 10.00 | 6.475 | 0 | 0.00 | $0.00 | 0 | 0.00 | 0.00 |
| PROJECT MANAGER I | $47.19 | 54 | 10.00 | $4.72 | 215 | 30.00 | 14.157 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| SR. PROJECT ENGINEER | $43.90 | 108 | 20.00 | $8.78 | 72 | 10.00 | $4.39 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| PROJECT ENGINEER II | $38.62 | 135 | 25.00 | $9.66 | 0 | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| PROJECT ENGINEER I | $33.87 | 135 | 25.00 | $8.47 | 0 | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| SR. DESIGNER | $34.95 | 0 | 0.00 | $0.00 | 215 | 30.00 | $10.49 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| DESIGNER II | $30.67 | 0 | 0.00 | $0.00 | 0 | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| SR. TECHNICAL SPECIALIST | $35.85 | 0 | 0.00 | $0.00 | 0 | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| SR. TECHNOLOGIST | $35.85 | 0 | 0.00 | $0.00 | 72 | 10.00 | $3.59 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| TECHNOLOGIST SPECIALIST I | $24.60 | 0 | 0.00 | $0.00 | 0 | 0.00 | $0.00 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| PROJECT ASSISTANT I | $20.70 | 54 | 10.00 | $2.07 | 72 | 10.00 | $2.07 | 0 | 0.00 | 0.00 | 0 | 0.00 | 0.00 |
| SURVEYOR | $38.40 | | | | | | | 60 | 50.00 | 19.20 | | | |
| SR. PARTY CHIEF | $33.80 | | | | | | | 60 | 50.00 | 16.90 | | | |
| | | | | | | | | | | | | | |
| Sub-Totals | | 540 | 100.00 | 40.17 | 716 | 100.00 | 41.16 | 120 | 100.00 | 36.10 | 0 | 0.00 | 0.00 |
| WGTD RATE WITH ESCALATION* | 1.50% | | | $40.77 | | | $41.78 | | | $36.64 | | | $0.00 |

# ROLLINS ROAD GRADE SEPARATION
# PHASE II DIRECT COSTS

| Item | Unit | Unit Cost | 2.0 PROJECT COORDINATION | | 4.0 CIVIL PLANS | | 6.0 STRUCTURAL PLANS | | 7.0 PUBLIC INVOLVEMENT | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |
| I. VEHICLES | | | | | | | | | | |
| DAILY RATE (owned or leased) | DAY | $45.00 | 29 | $1,305.00 | 0 | $0.00 | 0 | $0.00 | 3 | $135.00 |
| PERSONAL VEHICLE MILEAGE | MILE | $0.51 | 3300 | $1,683.00 | 0 | $0.00 | 0 | $0.00 | 345 | $175.95 |
| SUBTOTAL | | | | ***$2,988.00*** | | ***$0.00*** | | ***$0.00*** | | ***$135.00*** |
| II. CADD & REPRODUCTION | | | | | | | | | | |
| A. COPIES OF DELEVERABLES/MYLARS (IN-HOUSE) | | | | | | | | | | |
| 1. CADD PLOTTING MEDIUM; MYLAR (6 sq. ft.x $6/sq.ft.)=$36.00/plot (FINAL PSE SUBMITTAL) | PLOT | $36.00 | 0 | $0.00 | 559 | $20,124.00 | 143 | $5,148.00 | 0 | $0.00 |
| 2. CADD PLOTTING MEDIUM; BOND (6 sq. ft.x $1/sq.ft.)=$6.00/plot (2 SUBMITTALS, 1 set each) | PLOT | $6.00 | 0 | $0.00 | 1677 | $10,062.00 | 429 | $2,574.00 | 0 | $0.00 |
| B. COPIES OF DELEVERABLES/MYLARS (OUTSIDE) | | | | | | | | | | |
| 1. FULL SIZE; BOND (22 SETS) | SHEET | $0.60 | 0 | $0.00 | 12298 | $7,378.80 | 3146 | $1,887.60 | 0 | $0.00 |
| 2. 11" X 17"; BOND (75 SETS-CIVIL, 62 SETS-STR) | SHEET | $0.20 | 0 | $0.00 | 41925 | $8,385.00 | 8866 | $1,773.20 | 0 | $0.00 |
| 3. 8.5" X 11" (75 SETS @ 200 SHTS/SET-CIVIL, 62 SETS @ 100 SHTS/SET-STR) | SHEET | $0.10 | 0 | $0.00 | 15000 | $1,500.00 | 6200 | $620.00 | 0 | $0.00 |
| C. REPORTS (Quantities-3, Design Calculations-3, Includes Civil & Str.) | RPT | $50.00 | 0 | $0.00 | 6 | $300.00 | 6 | $300.00 | | $0.00 |
| SUBTOTAL | | | | ***$0.00*** | | ***$47,749.80*** | | ***$12,302.80*** | | ***$0.00*** |
| III. OVERNIGHT DELIVERY/POSTAGE/COURIER SERVICE | PACKAGES | $50.00 | 25 | $1,250.00 | 10 | $500.00 | 10 | $500.00 | 10 | $500.00 |
| SUBTOTAL | | | | ***$1,250.00*** | | ***$500.00*** | | ***$500.00*** | | ***$500.00*** |
| IV. MISCELLANEOUS | | | | | | | | | | |
| A. WEBSITE HOSTING | MONTH | $100.00 | 0 | $0.00 | 0 | $0.00 | | $0.00 | 24 | $2,400.00 |
| B. MEETING SUPPLIES | MEETING | $200.00 | | | | | | | 5 | $1,000.00 |
| B. EXHIBIT MOUNTING | EACH | $20.00 | 0 | $0.00 | 0 | $0.00 | | $0.00 | 50 | $1,000.00 |
| SUBTOTAL | | | | ***$0.00*** | | ***$0.00*** | | ***$0.00*** | | ***$4,400.00*** |
| **TOTAL** | | | | ***$4,238.00*** | | ***$48,249.80*** | | ***$12,802.80*** | | ***$5,035.00*** |

**Rollins Road**
**Phase II - Civil**
**Estimate of Prints**

| Size (in) | Unit Area (sq ft) |
|---|---|
| 24x36 | 6 |
| 11x17 | 1.299 |

| Plan Submittals | # of Sheets | Full Size Sets | Half Size Set | Area (sq ft) (full size) | Area (sq ft) (half size) | TOTAL AREA (SQ FT) |
|---|---|---|---|---|---|---|
| Preliminary Plans | 559 | 6 | 25 | 20,124 | 18,148 | 38,272 |
| Pre-Final Plans | 559 | 6 | 25 | 20,124 | 18,148 | 38,272 |
| Final Plans | 559 | 10 | 25 | 33,540 | 18,148 | 51,688 |
| Special Provisions | 15,000 | | | | | |
| **Totals** | | **22** | **75** | **73,788** | **54,444** | **128,232** |

Full Size

| | |
|---|---|
| Preliminary Plans | 6 sets for Utility Co. Reviews |
| Pre-Final Plans | 6 sets for Utility Co. Reviews |
| Final Plans | 10 sets (Utility Co's. - 6, LCDOT - 2 & IDOT - 2) |

Half Size

| | |
|---|---|
| Preliminary Plans | 25 Sets (LCDOT, IDOT, Railroads & Others) |
| Pre-Final Plans | 25 Sets (LCDOT, IDOT, Railroads & Others) |
| Final Plans | 25 Sets (LCDOT, IDOT, Railroads & Others) |

**Rollins Road**
**Phase II - Structural**
**Estimate of Prints**

| Size (in) | Unit Area (sq ft) |
|---|---|
| 24x36 | 6 |
| 11x17 | 1.299 |

| Plan Submittals | # of Sheets | Full Size Sets | Half Size Set | Area (sq ft) (full size) | Area (sq ft) (half size) | TOTAL AREA (SQ FT) |
|---|---|---|---|---|---|---|
| Preliminary Plans | 143 | 6 | 6 | 5,148 | 1,114 | 6,262 |
| Pre-Final Plans | 143 | 6 | 28 | 5,148 | 5,200 | 10,348 |
| Final Plans | 143 | 10 | 28 | 8,580 | 5,200 | 13,780 |
| Special Provisions | 6,200 | | | | | |
| **Totals** | | **22** | **62** | **18,876** | **11,513** | **30,389** |

Full Size

| | |
|---|---|
| Preliminary Plans | 6 sets for Utility Co. Reviews |
| Pre-Final Plans | 6 sets for Utility Co. Reviews |
| Final Plans | 10 sets (Utility Co's. - 6, LCDOT - 2 & IDOT - 2) |

Half Size

| | |
|---|---|
| Preliminary Plans | 6 sets for In-Progress reviews by LCDOT, IDOT or Railroads |
| Pre-Final Plans | 3 sets for BBS + 25 Sets (LCDOT, IDOT, Railroads & Others) |
| Final Plans | 3 sets for BBS + 25 Sets (LCDOT, IDOT, Railroads & Others) |

# Estimated Hours and Costs
# (Images Inc.)

DF-824-039
REV 12/04

# PAYROLL ESCALATION TABLE
## FIXED RAISES

**FIRM NAME** Images, Inc.
**PRIME/SUPPLEMENT** PRIME- Rollins Road Phase 2

**DATE** 02/19/11
**PTB NO.**

| | | | |
|---|---|---|---|
| **CONTRACT TERM** | 24 MONTHS | **OVERHEAD RATE** | 151.00% |
| **START DATE** | 6/1/2011 | **COMPLEXITY FACTOR** | |
| **RAISE DATE** | 10/1/2011 | **% OF RAISE** | 3.00% |

## ESCALATION PER YEAR

| 6/1/2011 - 10/1/2011 | 10/2/2011 - 10/1/2012 | 10/2/2012 - 6/1/2013 | | |
|---|---|---|---|---|
| 4 / 24 | 12 / 24 | 8 / 24 | | |
| = 16.67% | 51.50% | 35.36% | | |
| = 1.0353 | | | | |

**The total escalation for this project would be:** **3.53%**

# COST PLUS FIXED FEE
# COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039
REV 12/04

**FIRM** Images, Inc.
**PSB**
**PRIME/SUPPLEMENT** PRIME- Rollins Road Phase 2

**DATE** 02/19/11

**OVERHEAD RATE** 1.51
**COMPLEXITY FACTOR** 0

| DBE DROP BOX | ITEM | MANHOURS (A) | PAYROLL (B) | OVERHEAD & FRINGE BENF ( C ) | IN-HOUSE DIRECT COSTS (D) | FIXED FEE (E) | Outside Direct Costs (F) | SERVICES BY OTHERS (G) | DBE TOTAL (H) | TOTAL (B-G) | % OF GRAND TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DBE | 11. Area Business Task Force Mtgs. | 180 | 9,504.00 | 14,351.04 | 480.00 | 3,516.48 | | | 27,851.52 | 27,851.52 | 61.56% |
| DBE | 11. Newsletters (2) | 80 | 3,940.80 | 5,950.61 | | 1,458.10 | 3,766.00 | | 15,115.50 | 15,115.50 | 33.41% |
| DBE | 11. Administration | 24 | 790.08 | 1,193.02 | | 292.33 | | | 2,275.43 | 2,275.43 | 5.03% |
| DBE | | | | | | | | | 0.00 | | |
| DBE | | | | | | | | | 0.00 | | |
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| | Subconsultant DL | | | | | 0.00 | | | | 0.00 | 0.00% |
| | TOTALS | 284 | 14,234.88 | 21,494.67 | 480.00 | 5,266.91 | 3,766.00 | 0.00 | 45,242.45 | **45,242.45** | 100.00% |

DBE

**DBE 100.00%**

**PREPARED BY THE AGREEMENTS UNIT**

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DF-024-03
REV 12/04

# AVERAGE HOURLY PROJECT RATES

**FIRM** Images, Inc.
**PSB**
**PRIME/SUPPLEMENT** PRIME- Rollins Road Phase 2

**DATE** 02/19/11

**SHEET** 1 OF 5

| PAYROLL CLASSIFICATION | AVG HOURLY RATES | TOTAL PROJECT RATES | | | 11. Area Business Task Force Mtgs. (2) | | | 11. Newsletters (2) | | | 11. Administration | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg | Hours | % Part. | Wgtd Avg |
| | | 0 | | | | | | 0 | | | 0 | | | 0 | | | 0 | | |
| Planner | 52.80 | 220 | 77.46% | 40.90 | 180 | 100.00% | 52.80 | 40 | 50.00% | 26.40 | | | | | | | | | |
| Sr. Graphic Designer | 45.72 | 40 | 14.08% | 6.44 | | | | 40 | 50.00% | 22.86 | | | | | | | | | |
| Project Administrator | 32.92 | 24 | 8.45% | 2.78 | | | | | | | 24 | 100.00% | 32.92 | | | | | | |
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| TOTALS | | 284 | 100% | $50.12 | 180 | 100.00% | $52.80 | 80 | 100% | $49.26 | 24 | 100% | $32.92 | 0 | 0% | $0.00 | 0 | 0% | $0.00 |

**PREPARED BY THE AGREEMENTS UNIT**

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**Rollins Road- Phase II**

**Images, Inc. Public Involvement-DIRECT COSTS**

| TASK # | TASK Description | Quantity | Unit | Unit Cost | TOTAL | Task Group Total |
|---|---|---|---|---|---|---|
| | | | | | | |
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| | | | | | | |
| 17.2 | Area Business Task Force Group Meetings (2) | 240 | | $0.50 | $120 | |
| 17.3 | Preliminary Review Meetings (2) | 240 | | $0.50 | $120 | |
| 17.4 | Pre-Final Review Meetings (2) | 240 | | $ 0.50 | $120 | |
| 17.5 | Final Review Meetings 92) | 240 | | 0.50 | $120 | |
| 17.6 | Newsletter Printing (2- 4-6 pages) | 2,100 | | 1.5 | 3150 | |
| 17.7 | Newsletter Mailing | 1,400 | | 0.44 | 616 | |
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| | TOTAL | | | | | $4,246 |

# Estimated Hours and Costs
# (Mathewson Right-of-Way Company)

# Lake County
# Rollins Road at Illinois Route 83

| Parcel Number | Appraisal Fee | Appraisal Review Fee | Negotiation Fee | Total |
|---|---|---|---|---|
| 001 & TE | $3,500.00 | $1,400.00 | $3,000.00 | $7,900.00 |
| 002-A & B & TE | $4,800.00 | $1,920.00 | $3,000.00 | $9,720.00 |
| 003 | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 004 & TE | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 006 & TE | $3,750.00 | $1,500.00 | $3,000.00 | $8,250.00 |
| 007 & TE | $3,000.00 | $1,200.00 | $3,000.00 | $7,200.00 |
| 008TE | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 009 | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 011 & TE | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 012 | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 013 | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 014 | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 015 | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 016 & TE | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 017PE-A & B, TE-A & B & C | $2,000.00 | $800.00 | $3,000.00 | $5,800.00 |
| 018 & TE | $3,000.00 | $1,200.00 | $3,000.00 | $7,200.00 |
| 019TE-A & B & C & D | $3,000.00 | $1,200.00 | $3,000.00 | $7,200.00 |
| 021TE | $2,500.00 | $1,000.00 | $3,000.00 | $6,500.00 |
| 022TE | $3,000.00 | $1,200.00 | $3,000.00 | $7,200.00 |
| 023TE-A & B | $3,000.00 | $1,200.00 | $3,000.00 | $7,200.00 |
| 024 & TE | $3,500.00 | $1,400.00 | $3,000.00 | $7,900.00 |
| 025 & TE | $3,500.00 | $1,400.00 | $3,000.00 | $7,900.00 |
| 026 & TE | $3,500.00 | $1,400.00 | $3,000.00 | $7,900.00 |
| 027 & TE | $3,500.00 | $1,400.00 | $3,000.00 | $7,900.00 |
| 028 & TE | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 029 | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 031 & TE | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 032TE | $1,500.00 | $600.00 | $3,000.00 | $5,100.00 |
| 033PE & TE | $3,000.00 | $1,200.00 | $3,000.00 | $7,200.00 |
| | **$73,050.00** | **$29,220.00** | **$87,000.00** | **$189,270.00** |

| | | | | |
|---|---|---|---|---|
| Total for Appraisal Appraisal Review and Negotiation: | | | | **$189,270.00** |
| Title Commitments and Later Dates: | | | | **$14,500.00** |
| Residential Relocation: | 4 units | 60 hours estimated | $130 per hour | **$31,200.00** |
| Commercial Relocation: | 8 units | 60 hours estimated | $130 per hour | **$62,400.00** |
| Relocation Contingency: | 20% of Relocation Estimate (if not to exceed option) | | | **$18,270.00** |
| Project Management, Client Meetings, Relocation Services Coordination: | | 80 hours estimated | $250 per hour | **$20,000.00** |
| **Grand Total:** | | | | **$335,640.00** |

The number above is a not to exceed total based on the parcel count above. If the relocation expenses are treated as estimates they can be billed as actual cost otherwise they will be invoiced as $9,360 per relocation unit.

There will be additional title and closing costs associated with each settled file. These charges cannot be accurately predicted and are added to the purchase price at the time of closing.