

DOCUMENT VET SHEET
for
Karen McConnaughay
Chairman, Kane County Board

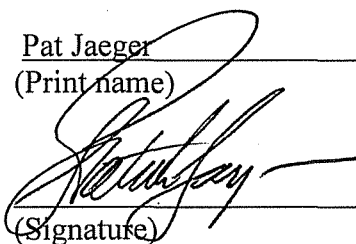
Name of Document: IGA with McHenry County and Village of Huntley for the Phase II

Design Engineering for I-90 / IL 47 Full Interchange

Submitted by: Linda Haines

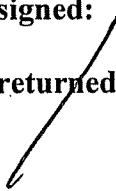
Date Submitted: _____

Examined by: Pat Jaeger
(Print name)


(Signature)

October, 2009
(Date)

Comments: _____

Chairman signed: 

Yes

No

(Date)

11-9-2009

Document returned to: _____

County Clerk

KANE COUNTY

DIVISION of TRANSPORTATION

Carl Schoedel, P.E.
Director of Transportation
County Engineer



41W011 Burlington Road
St. Charles, IL 60175
Phone: (630) 584-1170
Fax: (630) 584-5265

DATE: October 29, 2009

TO: Jean Weems
County Board Office

FROM: Linda Haines

SUBJECT: Agreements

3 – IGA with McHenry County and Village of Huntley for Phase II Design
Engineering for the I-90 / IL 47 Interchange with Document Vet Sheet (Kane
County Resolution #09-351)

TRANSMITTED FOR:

- ☐ YOUR INFORMATION AND FILE
- ☐ YOUR APPROVAL AND/OR CORRECTION
- ☐ AS REQUESTED
- ☒ SEE BELOW

REMARKS: Please have the Chairman sign, send to County Clerk for signature and seal, and then return to our office for further processing.

Thanks.

STATE OF ILLINOIS

COUNTY OF KANE

RESOLUTION NO. 09 - 351

**APPROVING AN INTERGOVERNMENTAL AGREEMENT BETWEEN THE VILLAGE OF HUNTLEY,
THE COUNTY OF MCHENRY, AND THE COUNTY OF KANE FOR
PHASE II DESIGN ENGINEERING SERVICES FOR THE
INTERSTATE 90 AT ILLINOIS ROUTE 47 FULL INTERCHANGE**

WHEREAS, the Illinois Constitution of 1970, Article VII, Section 10 and 5 ILCS 220/1 *et seq.* authorizes the County of Kane (hereinafter "Kane"), the County of McHenry (hereinafter "McHenry"), and the Village of Huntley (hereinafter "Huntley") to cooperate in the performance of their respective duties and responsibilities by contract and the other agreements; and

WHEREAS, Kane, McHenry, and Huntley, in order to facilitate the free flow of traffic and ensure safety to the motoring public, desire to improve the Interstate 90 (Jane Adams Memorial Tollway) by constructing a full interchange with Illinois Route 47 (hereinafter the "Project"); and

WHEREAS, Kane, McHenry, Huntley, the Illinois State Toll Highway Authority, and the Illinois Department of Transportation have previously entered into an agreement to fund and conduct a Design Concept Report for the Project; and

WHEREAS, Kane, McHenry, and Huntley desire to enter into an intergovernmental agreement (a copy of which is on file with the County Clerk's Office) for the Phase II Design Engineering of the Project; and

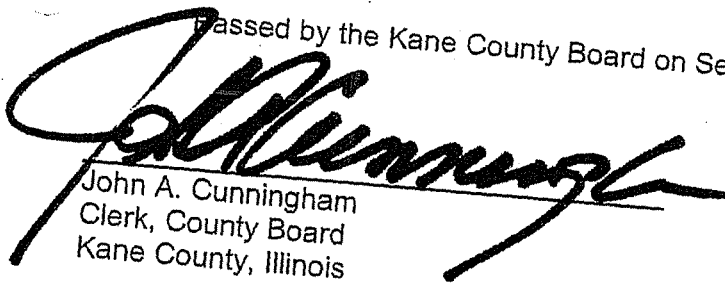
WHEREAS, Kane, McHenry and Huntley have determined a mutually satisfactory allocation of responsibilities and all costs for the Project as set forth in the intergovernmental agreement.

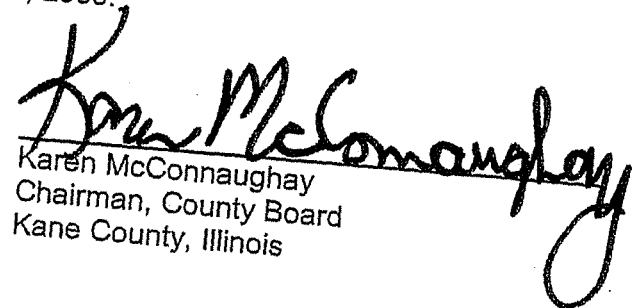
NOW, THEREFORE, BE IT RESOLVED that the County Board Chairman is hereby authorized to execute an intergovernmental agreement by and between the County of Kane, the County of McHenry, and the Village of Huntley.

BE IT FURTHER RESOLVED that the Kane County Board appropriate the sum of Four Hundred Sixty Six Thousand Six Hundred Sixty Six and 67/100 Dollars (\$466,666.67) to be paid from Transportation Sales Tax Fund #305, Line Item #50140 (Engineering) and Two Hundred Thousand Dollars (\$200,000.00) to be paid from Transportation Capital Fund #540, Line Item #50140 (Engineering) for a not to exceed sum of Six Hundred Sixty Six Thousand Six Hundred Sixty Six and 67/100 Dollars (\$666,666.67) to pay the Village of Huntley for Phase II Design Engineering.

Line item	Line Item Description	Was personnel/item/service approved in original budget or a subsequent budget revision?	Are funds <u>currently</u> available for this personnel/item/service in the specified line item?	If funds are not currently available in the specified line item, where are the funds available?
305.520.527.50140	Engineering	Yes	Yes	
540.520.525.50140	Engineering	Yes	Yes	

Passed by the Kane County Board on September 8, 2009.


John A. Cunningham
Clerk, County Board
Kane County, Illinois


Karen McConnaughay
Chairman, County Board
Kane County, Illinois

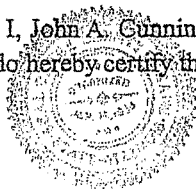
Vote:
Yes 24
No 0
Voice 0
Abstentions 0

9IL47190PH11.4LH

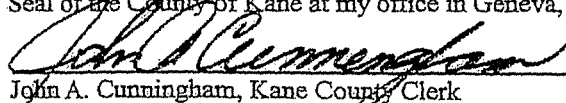
STATE OF ILLINOIS
COUNTY OF KANE

DATE SEP 30 2009

I, John A. Cunningham, Kane County Clerk and Keeper of the Records in Kane County, Illinois do hereby certify that the attached is a true and correct copy of the original record on file.



In witness whereof, I have hereunto set my hand and affixed the Seal of the County of Kane at my office in Geneva, Illinois.


John A. Cunningham, Kane County Clerk

**INTERGOVERNMENTAL AGREEMENT BETWEEN THE VILLAGE OF
HUNTLEY, THE COUNTY OF MCHENRY AND THE COUNTY OF KANE
FOR PHASE II DESIGN ENGINEERING SERVICES:
I-90 AT ROUTE 47 FULL INTERCHANGE**

This Agreement is entered into this 7th day of October, 2009, by and between the Village of Huntley, hereinafter called the "Village", the County of McHenry, hereinafter called "McHenry", and the County of Kane, hereinafter called "Kane". The Village, McHenry and Kane are collectively sometimes referred to as the "Parties".

WITNESSETH:

WHEREAS, the Illinois State Toll Highway Authority (ISTHA); the Illinois Department of Transportation (IDOT); and the Parties, in order to facilitate the free flow of traffic and ensure safety to the motoring public, desire to improve the I-90 (Jane Addams Memorial Tollway), hereinafter sometimes referred to also as "Tollway", by constructing a complete full interchange with Illinois Route 47, hereinafter referred to as the "Project"; and

WHEREAS, McHenry, Kane and the Village have previously shown their commitment to the Project by entering into an agreement for Phase I Design Engineering Services on May 22, 2008 which agreement stipulated that the Six Hundred Thousand Dollar (\$600,000.00) cost of Phase I Engineering for the Project would be split equally amongst the Parties; and

WHEREAS, in order to keep the Project moving forward in a timely manner for scheduling, funding and construction purposes, a Phase II Design Engineering Services agreement is now necessary and required among the Parties; and

WHEREAS, Phase II Design Engineering Services provide for completing the Preliminary, Pre-final and Final Construction Plan Development Phases for the Project; and

WHEREAS, an intergovernmental agreement is appropriate and is authorized and encouraged by Article VII, Section 10 of the Illinois Constitution and the Intergovernmental Cooperation Act 5, ILCS 220/1 *et seq.*; and

WHEREAS, McHenry and Kane by virtue of the authority as set forth in the County Code (55 ILCS 5/1-1001 *et seq.*), and Huntley by virtue of the authority as set forth in the Illinois Municipal Code (65 ILCS 5/1-1-1 *et seq.*) are authorized to enter into this Agreement.

NOW, THEREFORE, in consideration of the aforementioned recitals and the mutual covenants contained herein, the Parties covenant and agree as follows:

I. Incorporation

- A. The Parties acknowledge and agree that the preambles as set forth hereinabove are incorporated into and made a part of this Agreement.

II. Scope of Engineering Services

The Parties agree to have Phase II Design Engineering Services performed for the Project subject to the following:

- A. The professional engineering tasks to be performed in the Phase II Design Engineering Services will be provided by the firm of Gräef, 8501 W. Higgins Road, Suite 280, Chicago, IL 60631 hereinafter referred to as the Project Engineer.
- B. McHenry and Kane will each obtain the necessary legal and procedural authorizations from their corporate authorities to participate in this agreement for contractual and funding purposes.
- C. The Village agrees to have the Phase II Engineering Design Services Agreement with the Project Engineer which is attached hereto as Exhibit "A", reviewed and approved by ISTHA and IDOT prior to entering into the agreement with the Project Engineer. Upon approval thereof by ISTHA and IDOT, the Village will then enter into the professional engineering services agreement with the Project Engineer to provide for the Project the scope of services identified in Paragraph A of Exhibit A.
- D. The cost of the Phase II Design Engineering Services will not exceed Two Million Dollars (\$2,000,000.00), unless the Parties agree additional services beyond the original scope of work (Exhibit A) are necessary to complete Phase II Design Engineering.
- E. The Village, McHenry, and Kane shall each be responsible for one third of the cost of the Phase II Design Engineering Services. The Village agrees to have the Project Engineer perform the Phase II Design Engineering and associate services as stated in Paragraph A subject to reimbursement by McHenry and Kane as afore and hereinafter stated.
- F. The Village shall provide copies of all Phase II Design and Engineering studies and reports to McHenry and Kane for input and recommendations. All recommendations will not be unreasonably withheld and must be submitted to the Village within fourteen (14) calendar days of receiving them. After receipt of input and recommendations from Kane and McHenry, the Village shall submit the input and recommendations and all Phase II Design Engineering reports and studies to ISTHA and IDOT for approval.
- G. All Parties will send a letter to the Village indicating their comments, input and recommendations regarding the Phase II Design Engineering studies and reports.

III. Phase II Design Engineering Agreement Invoices

The Parties agree that all invoices for Phase II Design Engineering Services shall be paid as follows:

- A. The Village will pay the invoices received from the Project Engineer pursuant to the scope of services and compensation schedule outlined in Exhibit A.
- B. On a monthly basis, the Village will invoice McHenry and Kane in equal one-third shares of every invoice for Phase II Design Engineering Services received from the Project Engineer. Monthly project updates will be included and show progress of the Phase II Design Engineering for the Project and all fees expended to date. Payment shall be due from McHenry and Kane to the Village fourteen (14) calendar days from the invoice date.
- C. It is understood by the Parties that any funds paid by the Village, McHenry and Kane will be deducted from their respective proportionate shares specified in the final Intergovernmental Agreement with all Parties for the entire cost of all engineering and construction of the Project.

IV. Renewals

- A. The Parties are committed to fulfilling the financial and contractual agreements and commitments for Phase II Design Engineering Services until all work elements described in Section II are completed. However, unless otherwise agreed to by the parties as provided in Section II (D), the Parties' maximum cost for Phase II Design Engineering Services as set forth herein shall be not to exceed \$2,000,000.00.

IN WITNESS WHEREOF, the Parties have executed this AGREEMENT on the dates indicated.

VILLAGE OF HUNTLEY

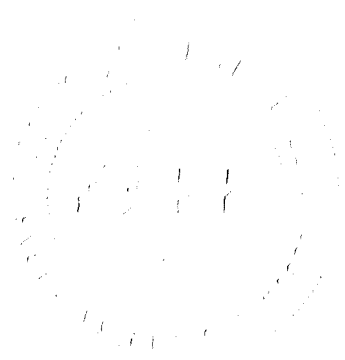
By: _____

Charles Han
Village President

Date: 10/7/09

Attest: _____

Pete M. McMahon
Village Clerk



MCHENRY COUNTY

By: [Signature]
Chairman, McHenry County Board

Date: _____

Attest: [Signature]
McHenry County Clerk

KANE COUNTY

By: [Signature]
Chairman, Kane County Board

Date: _____

Attest: _____
Kane County Clerk

1'



SECRET

10/7/2009

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

Exhibit A

Scope of Work

Interchange Route 47, Jane Addams Memorial Tollway

~~DESIGN SECTION ENGINEER (DSE) SERVICES~~
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

I. PROJECT DESCRIPTION

Design Section Engineer (DSE) Services are for Phase II Engineering for a full access interchange at the intersection of Illinois Route 47 (IL 47) and the Jane Addams Memorial Tollway (I-90) at milepost (M.P.) 32.5. The basis for the design development will be the Design Concept Report (Phase I Engineering Study).

The scope of these DSE Services has 3 milestones related to the development of construction contract documents. A document submittal will be made at each milestone, namely the Preliminary (60% complete), Pre-Final (90% complete), and Final submittals (100% complete). Additionally, the Post Design Stage, which concludes at the Preconstruction meeting, is also included in these services.

This project is for the construction of a Full Access Partial Cloverleaf Interchange Configuration at IL 47 and I-90. The limits of improvement along I-90 extend from approximately 4,600 feet northwest of IL 47 to 6,300 feet southeast of IL 47. The limits along IL 47 extend approximately 2,200 feet south of I-90 to 3,600 feet north of I-90. The segment of roadway north of I-90 includes the improvement of the Jim Dhamer Drive/Freeman Road intersection with IL 47. Improvement limits along Jim Dhamer Drive extend 600 feet west of IL 47 and 700 feet east of IL 47 along Freeman Road.

The major infrastructure improvement components associated with Phase II Engineering include:

- Widening IL 47 from a 2-lane section to a 6-lane divided highway section
- The replacement of the IL 47 structure over I-90
- 6 new interchange ramps.
- 4 unmanned ramp toll plazas; each plaza is anticipated to be three (3) lanes wide, with the middle lane accommodating cash payments and the outside lanes for electronic tolling only. A pre-fabricated control building will be installed to accommodate communication equipment for the toll plazas.
- Improvements along I-90 will consist of making accommodations for ramp terminals adjacent to the mainline pavement lanes.
- The design of 6 ramp terminals along IL 47, with 2 ramp terminals forming "T" intersections and requiring traffic signal installations.
- The expansion of the IL 47 intersection with Jim Dhamer Drive/Freeman Road
- Provide plans for new traffic signals and plans for temporary traffic signals at 3 intersections
- The removal and replacement of the overpass structure carrying IL 47 over I-90
- The extension of a double 12' by 10' box culvert under the south leg of the IL 47 intersection with Jim Dhamer Drive/Freeman Road

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

- The extension of a 3 sided culvert under Jim Dhamer Drive to accommodate the intersection widening
- The design of a retaining wall of an approximate length of 420 feet and an average height of about 10 feet. This retaining wall will be located in the northeast quadrant of the interchange and adjacent to IL 47.

II. ITEMS OF WORK TO BE INCLUDED IN CONTRACT

The design procedures and the format for the construction bid documents will follow the guidelines of the Illinois State Toll Highway Authority's (Illinois Tollway) Design Section Engineer's Manual, dated June, 2006 supplemented by Illinois Tollway Bridge Design Criteria, Ramp Toll Plaza Criteria (found in various Design Bulletins) or as amended by the Illinois Tollway and by the Illinois Department of Transportation's (IDOT) Division of Highways Bureau of Design & Environment (BDE) Manual - 2002 Edition as applicable to Phase II Engineering..

The Design Section Engineer's (DSE) services under this Contract shall include the aforementioned three submittals, together with preparation of any necessary utility documents in accordance with the requirements of the Illinois Tollway's DSE Manual. The design criteria and policies, Standard Specifications, materials and construction requirements of the Illinois Tollway shall apply to all portions of the improvement under Tollway jurisdiction. Similarly, the design criteria and policies, Standard Specifications, materials and construction requirements of the Illinois Department of Transportation shall apply to all portions of the improvement under IDOT's jurisdiction. Improvements outside of IDOT's or the Tollway's jurisdiction in most cases are under the jurisdiction of the Village of Huntley or Kane County's Division of Transportation.

Submittal requirements, contents and formats are addressed in Section 4 of the DSE manual and Chapter 63 of the BDE manual.

More specifically, the Phase II Engineering scope includes tasks as listed below:

A. SURVEY - TOPOGRAPHIC PLATS AND LEGAL DESCRIPTIONS

1. Perform additional topographic survey as necessitated by the project limits defined in the Design Concept Report.
2. Prepare documents for right-of-way plats and legal descriptions for property acquisitions for the proposed interchange improvements. Documents will include access control requirements as applicable.

B. HIGHWAY COMPONENTS, Non-structural elements (IDOT Jurisdiction)

1. Highway plans and cross-sections for approximately 5,700 lineal feet of IL 47 as defined in the Design Concept Report.
2. Intersection plans for the following:
 - a. IL 47 at the proposed eastbound exit ramp (Ramp D)
 - b. IL 47 at the proposed westbound entrance ramp (Ramp F)
 - c. IL 47 intersection with Jim Dhamer Drive/Freeman Road

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

3. Traffic signal plans for the following:
 - a. IL 47 at the proposed eastbound exit ramp (Ramp D)
 - b. IL 47 at the proposed westbound entrance ramp (Ramp F)
 - c. IL 47 intersection with Jim Dhamer Drive/Freeman Road
 4. Temporary Traffic signal plans for
 - a. IL 47 intersection with Jim Dhamer Drive/Freeman Road
 - b. IL 47 at the existing eastbound entrance ramp
 - c. IL 47 at the existing westbound exit ramp
 5. Provide the following plans for the improvements associated with IL 47 as defined in the Design Concept Report.
 - a. Erosion and sediment control plans for construction zones
 - b. Drainage and utilities plans
 - c. Pavement marking plans and signing plans
 - d. Roadway Lighting Plans
 - e. Landscaping plans
 6. Develop roadway cross-sections for approximately 11,000 lineal feet of IL 47
- C. HIGHWAY COMPONENTS, Non-structural elements (Tollway Jurisdiction)
1. Develop highway plans and cross-sections for the following proposed ramps and the terminal ramp segments adjacent to the mainline, as defined in the Design Concept Report.
 - a. Westbound exit ramp to northbound IL 47 (Ramp A)
 - b. Eastbound entrance ramp from northbound IL 47 (Ramp B)
 - c. Eastbound entrance ramp from southbound IL 47 (Ramp C)
 - d. Eastbound exit ramp (Ramp D)
 - e. Westbound exit ramp to southbound IL 47 (Ramp E)
 - f. Westbound entrance ramp (Ramp F)
 2. Prepare removal plans for existing Ramps A & B.
 3. Provide the following plans for the improvements associated with the Interchange expansion as defined in the Design Concept Report.
 - a. Erosion and sediment control plans for construction zones
 - b. Drainage and utilities plans
 - c. Pavement marking plans and signing plans
 - d. Roadway Lighting Plans
 - e. Landscaping plans
 4. Provide barrier warrant analysis for all areas of concern and provide guardrail and crash attenuators at warranted locations that conform to current AASHTO Guidelines and Illinois Tollway criteria.

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

D. ROADWAY COMPONENTS (Local Jurisdictions)

1. Village of Huntley Jurisdiction: Develop roadway plans and cross-sections for the proposed improvements along Jim Dhamer Drive and Freeman Road. These improvements are associated with the intersection reconstruction at IL 47. All roadway design components will be in accordance with the BDE requirements.
2. Kane County Division of Transportation Jurisdiction: Manning Road modifications will be prepared in accordance with KDOT's design criteria submittal requirements and content.

E. PERFORM DETAILED DESIGN AND DEVELOP PLANS FOR THE FOLLOWING STRUCTURAL COMPONENTS

1. All submittals associated with the replacement of the overpass structure carrying I-47 over I-90 will be made to the Illinois Tollway and to IDOT's Bureau of Bridges and Structures in the Central Office.
2. IDOT Jurisdiction: The extension of a double 12' by 10' box culvert under the south leg of the IL 47 intersection with Jim Dhamer Drive/Freeman Road.
3. Local Jurisdiction: The extension of a 3 sided culvert under Jim Dhamer Drive to accommodate the intersection widening.
4. Tollway Jurisdiction: The design of a retaining wall with an approximate length of 420 feet and an average height of about 10 feet. This retaining wall will be located in the northeast infield of the interchange and is adjacent to IL 47.

F. CONSTRUCTION STAGING, MAINTENANCE OF TRAFFIC AND CONSTRUCTION SCHEDULE;

For construction activities on I-90 and IL 47, as defined in the Design Concept Report:

1. General Maintenance of Traffic criteria.
 - a. Two lanes of traffic in each direction shall be maintained during peak hours on I-90.
 - b. Existing ramp traffic movements shall be maintained during construction.
 - c. Traffic Control Plans along IL 47 and I-90 shall be in accordance with IDOT and the Illinois Tollway criteria respectively.
2. All calculations completed for the preparation of the construction schedule shall be included with the Preliminary submittal.

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

G. TOLL PLAZA DESIGN ELEMENTS: Provide Toll Plaza plans for the unmanned toll plazas at Ramps A/E, Ramps B/C, Ramp D, and Ramp F. The toll plazas shall consist of the Authority's typical plaza design using current standards.

1. Develop Plaza Site Civil Plans for each of the 4 plaza locations.
 - d. Site grading
 - e. Pavement Grading
 - f. Utilities identification
 - g. Plaza drainage
 - h. Plaza Parking Lot, if required.
2. Develop Plaza Structural Plans for each of the 4 plaza locations
 - i. Structural Site Plan
 - j. Control building foundation details
 - k. Overhead toll collection structure plan and elevation
 - l. Toll plaza barrier foundation plans
 - m. Overhead toll collection structure monotube framing plan and details
 - n. Structural plaza island details
3. Develop Plaza Electrical plans for each of the 4 plaza locations. The plans will address all necessary communications equipment for the new toll plazas as directed by the Illinois Tollway. This shall include providing video, data, and voice transport equipment as necessary. Generally, the development of the plans will consist of the following:
 - o. Single line diagram plan
 - p. UPS single line and wiring diagram plan
 - q. Control Building power plan
 - r. Electrical site plan
 - s. Grounding site schematic and details
 - t. Electrical underground plans for control building ramp and remote ramps
 - u. Plaza building lighting plans and details
 - v. Panel Board Schedules
 - w. Lane wiring diagrams
 - x. Plaza lane loop layout plan
 - y. Remote ramp equipment enclosures and power cabinets
 - z. Control building electrical details
4. Provide a 48 strand single mode fiber optic connection from any new control building into the Authority's existing Single Mode Optic Network as directed by the Authority.

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

H. Subsurface Investigations and Geotechnical Reports will be completed in accordance with the IDOT Geotechnical Documents, Manuals and Procedures and with the Illinois Tollway's Geotechnical Engineers Manual.

1. The Soil boring and Pavement Core program will address the following

aa. Structural Borings

1. The replacement of the overpass structure carrying I-47 over I-90 (6 borings)
2. Proposed 420 lineal feet retaining wall, boring spacing 150 feet (3 borings)
3. Four Toll collection facilities (5 borings)
4. The extension of a double 12' by 10' box culvert (2 Borings)
5. The extension of a 3 sided culvert under Jim Dhamer Drive (2 Borings)
6. Two overhead Sign Structures, 4 borings

bb. Borings for Subgrade, Embankment, Detention & Borrow

1. Six new interchange ramps, 300 foot spacing (40 borings)
2. IL 47 Reconstruction and widening; 300 foot spacing (18 borings)
3. Jim Dhamer Drive/Freeman Road Widening (4 borings)
4. Three detention basins (6 borings)

cc. Hand Auger, Pavement cores and Top Soil Testing

1. Hand auger in ditches and Tollway embankments (18 auger borings)
2. Pavement Cores; IL 47 (4 cores)
3. Pavement Cores; Jim Dhamer Drive/Freeman Road Widening (4 cores)
4. Topsoil Testing (250 Samples)

dd. Reports of Data obtained will consist of the following:

1. A geotechnical Engineering Report summarizing the field and laboratory test data
2. A separate Structural Geotechnical Report (SGR) for each structure
3. A roadway soils investigation report

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

I. THE FOLLOWING LIST OF UTILITIES HAVE BEEN IDENTIFIED AND DETAILED IN THE DESIGN CONCEPT REPORT.

These utilities may require coordination for protection or relocation during the Phase II design process. During Phase II the DSE will provide a copy of the agency utility contact log on a monthly basis.

1. Utilities in the I-90 Corridor

- a. Adesta: An underground single mode fiber optic cable parallels I-90 along the south right-of-way line throughout the project limits.
- b. ComEd: A 138 KV high mast aerial electric parallels I-90 approximately 20 feet north of the south right-of-way line throughout the project limits.
- c. ComEd: Overhead electric cables cross over the westbound I-90 exit ramp, over I-90 and over the entrance ramp to eastbound I-90.
- d. AT&T-D: An underground fiber optic cable crosses under the westbound I-90 exit ramp, under I-90 and under the entrance ramp to eastbound I-90.
- e. AT&T-T: Two (2) 4" Steel Pipes carry fiber optic cable or telephone cables under I-90 at approximately Sta. 2442+30.
- f. Nicor: A 12" gas main crosses under the westbound I-90 exit ramp, under I-90 and under the entrance ramp.
- g. Village of Huntley: A sanitary force main crosses under the westbound I-90 exit ramp, under I-90 and under the entrance ramp.
- h. Village of Huntley: A water main crosses under the westbound I-90 exit ramp, under I-90 and under the entrance ramp to eastbound I-90.

2. Utilities in the IL 47 Corridor

- a. ComEd: Electric aerial/underground cables parallel IL 47 along the east right-of-way throughout the project limits.
- b. ComEd: Aerial electric cables cross IL RTE 47 from east to west at Sta. 31+60 then proceed west to the right-of-way of I-90.
- c. ComEd: Aerial electric cables cross IL RTE 47 from east to west at the entrance ramp to eastbound I-90 then proceed north within the western IL RTE 47 right-of-way to Van Acker Road. The aerial electric cables then run along the south right-of-way from IL RTE 47 to the Van Acker Farm.

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

- d. AT&T-D. An underground fiber optic cable parallels IL RTE 47 along the east right-of-way from the north project limits to the entrance ramp to eastbound I-90.
 - e. AT&T-D. An underground telephone cable runs parallel to IL RTE 47 within the western right-of-way south of the entrance ramp to eastbound I-90.
 - f. Nicor. A 12" gas main parallels IL RTE 47 along the east right-of-way from the north project limits to the entrance ramp to eastbound I-90.
 - g. Nicor. A 6" underground gas main parallels IL RTE 47 north of Freeman Road. At Freeman Road, the main heads west under IL RTE 47 then continues west along Jim Dhamer Drive.
 - h. Village of Huntley: A 12" water main parallels IL RTE 47 along the east right-of-way from the north project limits to the exit ramp from westbound I-90.
 - i. Village of Huntley: A sanitary force main parallels IL RTE 47 along the west right-of-way from the north project limits to approximately Sta. 26+50. At this point the force main turns east and crosses under IL RTE 47, then turns south to the exit ramp from I-90.
3. Utilities in Jim Dhamer Drive/Freeman Road Corridor
- a. Nicor: A 6" gas main parallels Jim Dhamer Drive in the south right-of-way.
 - b. AT&T-D. An underground telephone cable runs parallel to Jim Dhamer Drive in the south right-of-way
 - c. ComEd. Underground electrical cables run within the north and south right-of-way for both Jim Dhamer Drive and Freeman Road.
 - d. Village of Huntley. The Village has a sanitary pump station located in the northwest corner of the intersection of Jim Dhamer Drive and IL RTE 47. A sanitary sewer runs parallel to Freeman Road in the south right-of-way, and another sanitary sewer runs parallel to Jim Dhamer Drive in the north right-of-way. Both of these sanitary sewers feed into the pump station
 - e. Village of Huntley. A 16" water main runs parallel to Jim Dhamer Drive in the south right-of-way.
4. Utility entrance locations will be coordinated with ComEd at all new electrical service locations.

DESIGN SECTION ENGINEER (DSE) SERVICES
SCOPE OF PHASE II ENGINEERING
ILLINOIS ROUTE 47 @ THE JANE ADDAMS MEMORIAL TOLLWAY (I-90)
INTERCHANGE EXPANSION PROJECT

J. THE FOLLOWING PERMITTING HAS BEEN IDENTIFIED AND WILL BE OBTAINED IN ADVANCE OF CONSTRUCTION AS PART OF THE PHASE II ENGINEERING SERVICES PERMITS

1. USACE – A wetland permit for construction impacting jurisdictional wetlands will be required and an application will be submitted for approval to the Army Corps of Engineers.
2. Kane County Stormwater Management Permit – A stormwater management permit will be required and submitted for approval.
3. Illinois Environmental Protection Agency (IEPA) – A Notice of Intent for Construction needs to be filed with IEPA. The Tollway usually submits this as a Joint Permit application to the USACE Permit Section Chicago District. After the project is completed, the Construction Section Engineer submits the Notice of Termination. NPDES compliance will be demonstrated and documents prepared for IEPA submittal and approval.
4. IEPA – Permits for relocation of water and sanitary mains will be required and appropriate documentation will be provided to secure permits..
5. IDNR-OWR permit application and required hydraulic analysis will be completed and submitted. Permit may be required for work within Eakin Creek.
6. Building Permit – A building permit may be required from the Village of Huntley for construction of the Control Building.
7. IDOT – A highway permit will be required from IDOT for construction on IL RTE 47, including modification to traffic signals.

K. AGREEMENTS FOR THE FOLLOWING ISSUES WILL BE COORDINATED DURING THE PHASE II ENGINEERING PROCESS

1. Emergency Vehicle Preemption Systems. Intergovernmental Agreement may be needed between IDOT and the Village of Huntley.
2. Combined detention and stormwater facilities with the Tollway and IDOT.

L. ADDITIONAL PROJECT COORDINATION HAS BEEN IDENTIFIED FOR THE PHASE II ENGINEERING PROCESS

1. Vacation of public right-of-way for Van Acker Road.
2. Location of new access point for future Pancor development.
3. Right-of-way acquisition and temporary easements for construction.
4. Relocation of utilities within public right-of-way or private easements.
5. Acquisition of new private easements.

M. PUBLIC INVOLVEMENT

1. Public Involvement will generally be coordinated with the Illinois Tollway and the Village of Huntley. It is anticipated that the DSE will

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need to prepare exhibits, provide technical experts, etc. for attendance at meetings scheduled by the Tollway and/or the Village of Huntley.

2. Coordinate with the Authority's Project Engineer on sending individual letters to municipal, township, and county officials with jurisdictional boundaries adjacent to the study area. Allow interested officials to review concepts under Authority consideration and comment on community issues of concern or support.
3. Coordinate with the Tollway's Project Engineer and the Authority's Community Affairs Liaison in meeting with individual property owners, neighborhood groups and their local officials as required to address their questions or concerns regarding indirect project impacts.

III. REQUIRED SUBMITTALS TO THE ILLINOIS TOLLWAY AND IDOT

Submittal requirements shall be in accordance with the DSE's Manual dated June, 2006 and Chapter 63 of the BDE manual.

- A. PREPARE PLATS OF SURVEY AND LEGAL DESCRIPTIONS FOR THE TOLLWAY'S PURCHASE OF RIGHT-OF-WAY.
- B. PREPARATION OF PRELIMINARY, PRE-FINAL AND FINAL CONTRACT DOCUMENTS, SPECIAL PROVISIONS, DESIGN AND QUANTITY CALCULATIONS, ENGINEER'S ESTIMATE AND CONSTRUCTION SCHEDULE TO BE REVIEWED AND APPROVED BY THE ILLINOIS TOLLWAY AND IDOT
- C. OTHER SERVICES AND SUBMITTALS REQUIRED:
 1. The DSE shall coordinate and incorporate all requirements of other design contracts impacting this project, if any. The DSE shall meet with other DSE's as often as required to insure that the final contract documents of all contracts relating to the limits are coordinated.
 2. Pre-Final Plans shall represent the completed product submitted by the DSE
 3. Final construction cost estimates will be developed by the DSE and reviewed by the Tollway, based upon pay items and quantities determined by the DSE.
 4. All design plans shall be prepared in MicroStation format. All final plans shall be submitted in PDF format and three (3) copies in CADD file format on three (3) separate CD's. An electronic version of the Contract Requirements booklet(s) shall also be included on each CD.

IV. DSE QUALITY PLAN

Project quality will be achieved in accordance with Section 7 of the Tollway's DSE Manual.

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V. ITEMS TO BE FURNISHED TO THE DESIGN SECTION ENGINEER

In addition to the items to be provided as described in the DSE's Manual, the following will be supplied:

1. It shall be the responsibility of the DSE to select the applicable reduced record drawings from the Tollway's website at www.illinoisvirtualtollway.com.
2. The Tollway's biennial structural inspection report of the bridges listed in Table A.
3. Digital Ortho-Imagery, contours, horizontal and vertical survey control and center line of the project limits.
4. Copies of Illinois Tollway Standard Specifications, Standard Drawings, and Design Manual can be obtained from the Tollway's website at www.illinoistollway.com.

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PROJECT SCHEDULE
Contract No. RR-0X-XXXX
Illinois Route 47 Interchange, Jane Addams Memorial Tollway

SCHEDULE

1.	Scoping Meeting	TBD
2.	Design Scope Submittal	TBD
3.	Design Scope Approval	TBD
4.	Notice to Proceed	TBD
5.	Project Kick-Off Meeting	TBD
6.	Concept Submittal	TBD
7.	Preliminary Submittal	TBD
8.	Pre-final Submittal	TBD
9.	Final Submittal	TBD
10.	Advertise	TBD
11.	Bid Opening	TBD
12.	Board Award	TBD
13.	Construction Start Date	TBD

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**TABLE A:
 BRIDGES LOCATED WITHIN THE PROJECT LIMITS**

**Contract No. RR-0X-XXXX
 Illinois Route 47 Interchange, Jane Addams Memorial Tollway**

Bridge #	Traffic Direction	Mile Post	Location	Tollway Over (O) Under (U)	Type of Bridge	Maintenance**
621		32.0	IL Route 47)	U	PPCB	B (IDOT)

** A Type – Illinois Tollway has complete maintenance responsibility.

** B Type – Illinois Tollway has partial maintenance responsibility.

** C Type – Illinois Tollway has complete or partial maintenance responsibility.