

**VILLAGE OF LIBERTYVILLE  
BOARD OF TRUSTEES  
STREETS COMMITTEE**

June 28, 2016

7:00 pm

Village Hall

Agenda

- 1) Call to Order
- 2) Minutes of Tuesday, May 24, 2016 Meeting
- 3) 2016 Road Project Updates
- 4) 2017 Pavement Rehabilitation Program Update
- 5) Flashing Pedestrian Crossing Beacon Update at ILL Route 176 & Dymond Road Update
- 6) Electronic Vehicle Display Sign Update
- 7) Rockland Road Bridge
- 8) Other
- 9) Adjournment

**VILLAGE OF LIBERTYVILLE  
BOARD OF TRUSTEES  
STREETS COMMITTEE**

May 24, 2016

7:00 pm

Village Hall

Agenda

Attendance

Committee: Trustee Scott Adams, Trustee Pete Garrity

Village Board: Mayor Terry Weppler

Staff: Village Administrator Kevin Bowens, Police Chief Clint Herdegen, Director of Public Works Paul Kendzior, Finance Director Patrice Sutton, Fire Chief Rich Carani

Other: Barbara Schaefer

Absent: Trustee Donna Johnson

Minutes

- 1) **Call to Order at 7:00 pm**
- 2) **Minutes of Tuesday, April 26, 2016 Meeting**

The minutes were approved as written.

- 3) **2016 Road Project Updates**

Pavement Rehabilitation Project: The construction contract was awarded to Alamp Concrete Contractors for an amount not to exceed \$3,585,771.11 at the February 23rd Board meeting. Construction for the project started in late March with curb & gutter removal/replacement, pavement milling, pavement patching and then pavement resurfacing on Trinity Place, Sussex Ln., Oxford Ct., Lake St., Elderberry Dr., Mulberry Dr., Newcastle Ct., Plumwood Dr., Ronan Ct., Vineyard Ln., Sunnyview Rd., Kildare Ave., Walnut St., Carriage Hill Cr. and Parkview Dr. to date.

FAU Resurfacing Project (Fourth/Greentree/Red Top): Construction for this project will be 80% Federal and 20% Village funded. Bids for this project were opened on the April 22, 2016 IDOT letting. There were two bids received, Peter Baker & Son \$932,127.00 and J.A. Johnson Paving Company \$1,020,898.39. It is anticipated that IDOT will award the Contract to the low bidder Peter Baker & Son in mid-June. Following the Contract award, a preconstruction meeting will be held and more definitive construction start date will be known.

- 4) **2017 Pavement Rehabilitation Program Update**

The list of streets for the 2017 Pavement Rehabilitation Program was approved at the January 26th Streets Committee Meeting. The engineering services contract with Christopher B. Burke Engineering, Ltd. was approved at the February 23rd Board meeting. Preliminary work (surveying, pavement cores, etc.) has begun and Staff and the consultant will have a coordination progress meeting in mid-June.

5) **Flashing Pedestrian Crossing Beacon Update at ILL Route 176 & Dymond Road**

The Village submitted the formal Permit materials to the IDOT in early February. The submittal included a cover letter, engineering drawings and a description of the proposed work. Engineering Division Staff received comments back from IDOT in early March. The re-submittal back to IDOT addressing their comments was mailed on April 19th and Staff are now awaiting either IDOT's approval or additional review comments.

6) **Sunnyside Avenue Speeding Concerns and Electronic Vehicle Display Sign Update**

The solar powered electronic vehicle display signs were installed in early April 2016 and have been relocated to Fourth Avenue as of May 16th. Staff provided a summary and a table of the daily vehicle counts, and average speed. For the eastbound direction, the average vehicle speed dropped 2 MPH from the start date to the end date of the sign installation. For the westbound direction, the average vehicle speed dropped 4 MPH from the start date to the end date.

7) **RFP for Village-Wide Master Stormwater Management Plan**

During the Budget discussions the creation of a Utility funded by a stormwater fee to provide the necessary funding for all maintenance activities and capital improvements to the Village's stormwater management system was discussed. One of the first steps in the creation of a "Stormwater Utility," which would operate similar to the Village's current Water and Sanitary Sewer Utilities, is to prepare a Village-wide Master Stormwater Management Plan that would identify all flooding locations in the Village that cause damage to structures, property and significant inundation of strategic roadways. As part of the development of the Master Plan, the selected consultant would be responsible to identify a proposed flood reduction project for each location to the appropriate (optimum) protection level, prepare an estimate of total (final design & construction) project costs, determine the resulting benefits and then prioritize (rank) each proposed project by the estimated total costs and benefits. The minimum level of protection for each recommended project will be 10-year frequency rainfall event. It is the intent that the Master Plan will be relevant for the next 20-years, with updates only being needed on a 5-year interval. With the completion of a Master Plan, the Village would know the necessary amount of funding that would be required for the design and construction of the proposed flood reduction capital projects. The inclusion of these capital costs along with the identified maintenance and personnel costs for the stormwater management system would then be used determine the fee amount and structure of the new "stormwater utility fee."

There is currently no funding in the current 2016/17 Fiscal Year Budget for the Master Stormwater Plan, which is anticipated to cost \$300,000. Therefore, Staff has offered the following options that could be considered to undertake the Plan:

OPTION 1: Distribute the Request for Consultant Proposal at this time and undertake the initial Phases of Plan in this Fiscal Year. This would require discussions with the Village Board to identify any items that can be deferred in either the Capital Improvements or General Fund. It needs to be mentioned that the anticipated schedule to complete the Master Plan would be 15-months, so spending would occur over two Fiscal Years.

OPTION 2: Distribute the Request for Consultant Proposal on, or about January 1st. This would allow for the selection process to be completed by the end of April 2017 and would involve no additional expenditures in this fiscal year. Through the meeting and discussion process for next

the 2017/18 fiscal year budget; allocate the necessary funding in the Capital Improvements Fund to complete the majority (first 12 months of the total 15 months anticipated).

Staff recommends Option 2. A copy of the Request for Consultant Proposal is enclosed. The Committee made a motion to recommend Option 2 for approval to the full Village Board.

**8) The meeting was adjourned at 7:32 pm.**

Respectfully Submitted:

Paul Kendzior, PE, CFM  
Director of Public Works

## Memorandum

To: Streets Committee  
From: Public Works Staff  
Date: June 28, 2016  
Re: Staff Report

### 3) 2016 Road Project Updates

Pavement Rehabilitation Project: The construction contract was awarded to ALamp Concrete Contractors for an amount not to exceed \$3,585,771.11 at the February 23rd Board meeting. Construction for the project started in late March with curb & gutter removal/replacement, pavement milling, pavement patching and then pavement resurfacing on various streets. The most recent work has been concrete base patching on Kempton & Florsheim and landscaping on Crestfield & Fairlawn. Work will soon progress to the streets that were disturbed due to the underground improvements.

FAU Resurfacing Project (Fourth/Greentree/Red Top): Construction for this project will be 80% Federal and 20% Village funded. The Contract has been awarded to the low bidder, Peter Baker & Son in the amount of \$932,127.00. The Pre-Construction Meeting was held on June 14th. Work on this project will start on July 6th.

### 4) 2017 Pavement Rehabilitation Program Update

The list of streets for the 2017 Pavement Rehabilitation Program was approved at the January 26th Streets Committee Meeting. The engineering services contract with Christopher B. Burke Engineering, Ltd. was approved at the February 23rd Board meeting. Preliminary work (surveying, pavement cores, etc.) is underway and Staff and the consultant held an initial coordination progress meeting earlier this month.

### 5) Flashing Pedestrian Crossing Beacon & School Zone Establishment (Route 176 at Dymond Road) Update

Verbal authorization for the Highway Permit from the Illinois Department of Transportation (IDOT) has been issued. District 128 has ordered the flashing beacon assemblies, which should be delivered by the middle of July. The goal is to have the requested roadway signage, pavement markings and beacon assemblies, which will be installed by Public Works Streets & Utilities Staff, in place before school starts in August.

### 6) Electronic Vehicle Display Signs Update

The solar powered electronic vehicle display signs were relocated from Sunnyside Avenue to Fourth Avenue between Paddock Lane and Furlong Drive in mid May. For the northbound direction on Fourth Avenue, the average speed has decreased from 28 MPH to 26 MPH. For the southbound direction, the average speed has decreased from 28 MPH to 26.5 MPH.

The signs will soon be relocated to Appley Avenue and placed between 323/325 (eastbound) and near the Bartlett Terrace intersection (westbound). We are also in the process with coordinating with the Lake County Division of Transportation to receive their approval to install the signs on Butterfield Road between Ridgewood Lane and Lake Street.

7) **Rockland Road Bridge**

Public Works Staff have been informed that the sufficiency rating for the bridge has been lowered from 52.3 to 49.2. The sufficiency rating for a bridge is based on numerous factors consisting of structural adequacy, serviceability and importance to public use. The ratings range from 100 to 0. A sufficiency rating between 50-80 makes the bridge eligible for Federal funds to rehabilitate. For a rating below 50, replacement is eligible for Federal funding, which would be 80%-Federal/20%-Local). Initial preliminary inspections of the bridge have indicated that the pre-cast/pre-stressed concrete beam deck (superstructure) should be replaced. The existing abutments (sub-structure) appear to be O.K. The aesthetic steel truss and cantilevered sidewalk are in poor condition. The jurisdiction and maintenance responsibility for the bridge is split equally between the Village and Libertyville Township.

Village and Township Staff are exploring the feasibility of replacing the bridge deck as part of the Rockland Road reconstruction project, which is currently scheduled for construction in 2019. More updates will follow as additional information becomes available. A copy of the most recent Bridge Inspection Report, pictures of the underside of the deck and an elevation/cross-section drawing for the bridge are attached.



Illinois Department of Transportation  
Structures Information Management System  
Structure Summary Report

Date: 05/03/2016

Page: 2

Structure Number: 049-3048 District: 1

\*\*\* Inspection Intervals \*\*\*

Routine NBIS: 24 MOS Underwater: 0 MOS  
Special: N

Data Related to Inspection Information  
\*\*\* Maximum Allowable Posting Limits \*\*\*

Bridge Posting Level:  
5 No Posting Required

Combination Type 3S-1: Tons  
Combination Type 3S-2: Tons

Inspection/Appraisal Information

Inspection Date: 04/28/2015 Inspection Temperature: 50Deg. F

Deck: 4 POOR CONDITION - ADVANCED DETERIORATION  
Superstructure: 4 POOR CONDITION - ADVANCED DETERIORATION  
Substructure: 7 GOOD CONDITION - SOME MINOR PROBLEMS  
Culvert: N NOT APPLICABLE

Channel and Protection: 6 SATISFACTORY CONDITION - MINOR DETERIORATION  
Structural Evaluation: 4 MINIMUM ADEQUACY TO BE LEFT IN PLACE  
Deck Geometry: 3 INTOLERABLE - HIGH PRIORITY FOR CORRECTION  
Underclearance-Vert/Lat.: N NOT APPLICABLE  
Waterway Adequacy: 8 EQUAL TO PRESENT DESIRABLE CRITERIA  
Approach Roadway Align: 8 EQUAL TO PRESENT DESIRABLE CRITERIA  
Bridge Railing Appraisal: 3 Meets Standards  
Approach Guardrail: 332 Acceptable  
Pier Navig Protection: N N/A

\*\* Actual Posted Limits \*\*  
Single Unit Vehicles: Tons  
Combination Type 3S-1: Tons  
Combination Type 3S-2: Tons  
One Truck At A Time: 0  
Last Paint Type:

Deck Wearing Surf: G BITUMINOUS OVERLAY  
Deck Membrane: A WATERPROOF MEM SYST  
Deck Protection: J NONE  
Total Deck Thick: 24.5  
Last Paint Date: 05/1990

Underwater Inspection/Appraisal Information

Inspection Date:  
Temperature:

Inspection Method:  
Appraisal Rating:

Scour Critical Information

Rating: 5 CALCULATED SCOUR ACCEPTABLE Evaluation Method: B Rational Analysis

Miscellaneous

Microfilm Data Recorded: Yes

Construction Information

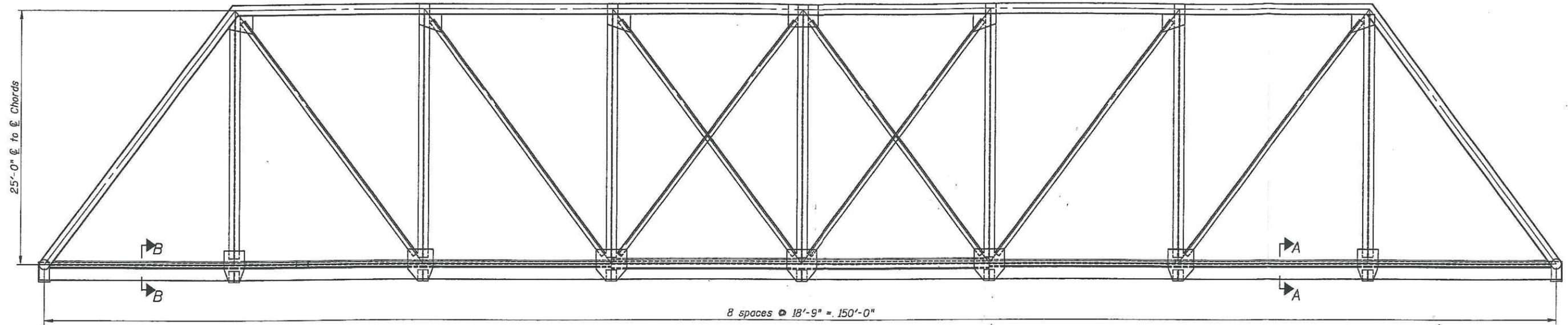
Year: 1990 Original Reconstructed  
Route: FAU1239 Sta: 2+54.09  
Section Nbr: 87-00063-00-BR  
Contract Nbr: 43002  
Fed Aid Pr#: BRM-6003(736)  
Built By: 4 CITY



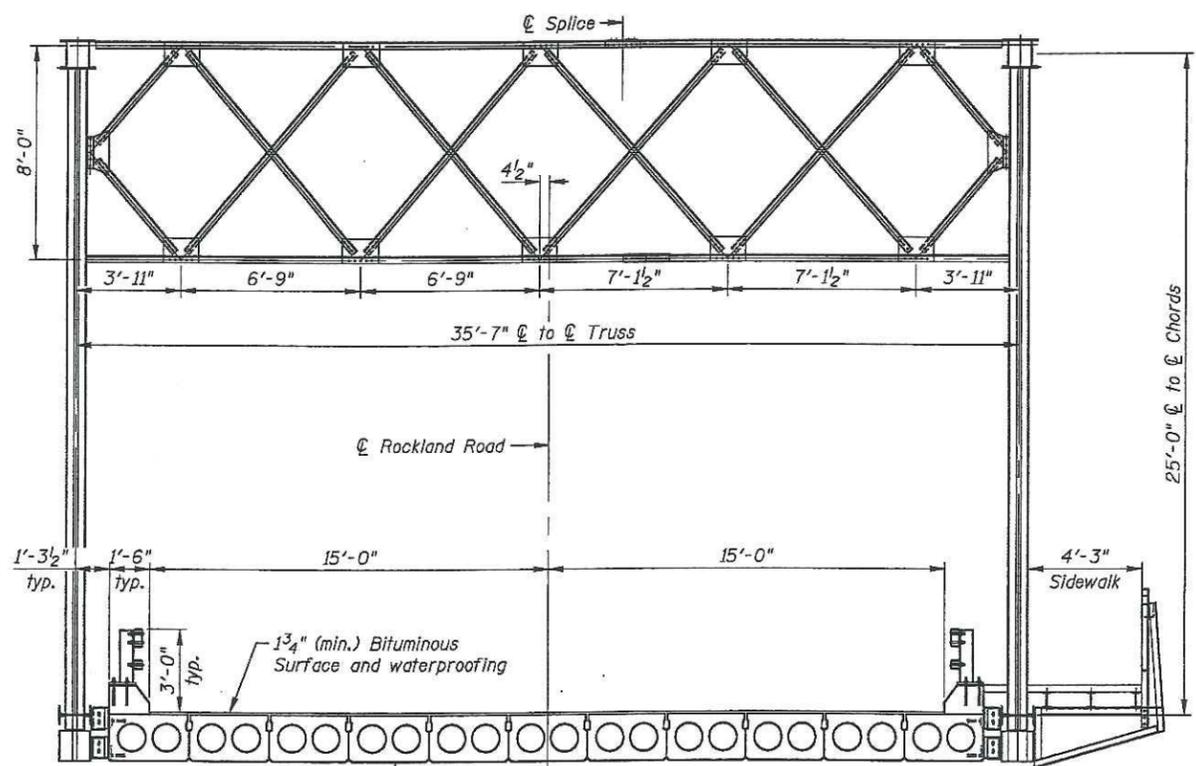
**PHOTO 7** South side looking west.



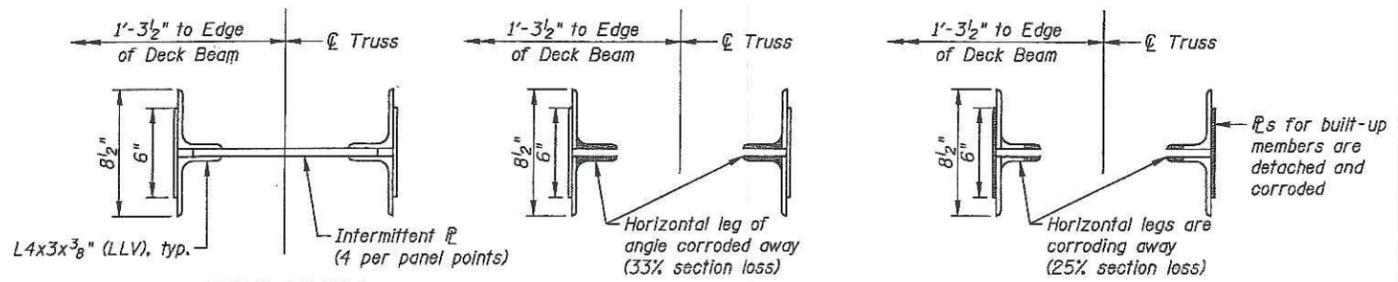
**PHOTO 8** South beams in Span 2 looking west.



TRUSS ELEVATION



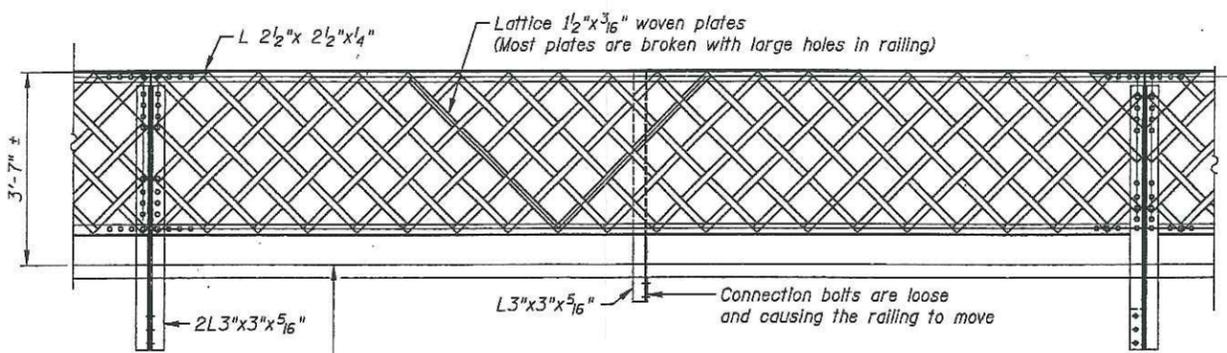
TYPICAL CROSS SECTION



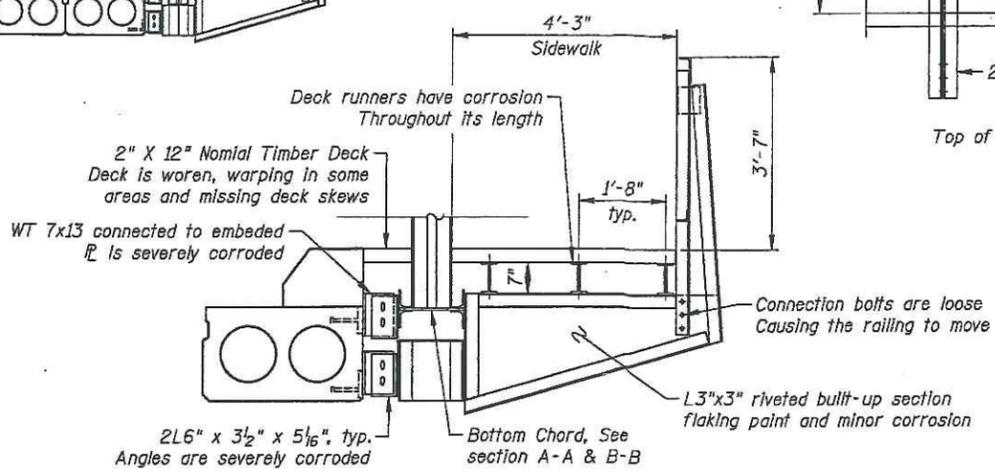
BOTTOM TRUSS CHORD (ORIGINAL)

SECTION A-A  
Bottom Truss Chord (Current Condition- SE & NE Corner)

SECTION B-B  
Bottom Truss Chord (Current Condition- SW Corner)



RAILING ELEVATION



TYPICAL SIDEWALK CROSS SECTION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
  
STEEL TRUSS DETAILS  
VILLAGE OF LIBERTYVILLE  
ROCKLAND RD BRIDGE OVER DES PLAINES RIVER  
STR. 049-3048

06/15/2016 11:53:05 AM c:\pw\_working\civiltech\_production\mt\cane\0383\SteelTruss.dgn