

REHABILITATION STRUCTURE SURVEY REPORT

DT1696 6/2012

Wisconsin Department of Transportation

- ☒ **Grade Separation**
☐ **Stream Crossing**
☐ **Culvert**
☐ **Railroad**
☐ **Retaining Wall**
☐ **Noise Barrier**
☐ **Sign Structure**
☐ **Other:** _____

For guidance see: http://dotnet/dtid_bos/extranet/structures/reports-checklists.htm

| Design Project ID 1190-02-34 | Construction Project ID 1190-02-64 | Highway (Project Name) EAU CLAIRE - CHIPPEWA FALLS | | | | | | | | | | | | | | |
|---|--|--|--------------------|--------------|-------------|-----------------------------|----------------------|------------------|--------------------|-------|--------|--------------------|------------------------------------|--|--|-----------|
| Final Plan Due Date 05/01/2018 | Preliminary Plan Due Date 05/01/2018 | <input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City WASHINGTON | | | | | | | | | | | | | | |
| PS&E Date 08/01/2018 | Letting Date 02/12/2019 | County EAU CLAIRE | | | | | | | | | | | | | | |
| Structure Number B-18-37 | | Section 35 | Town 27N | Range 09W | | | | | | | | | | | | |
| Station 62+62.51 - 63+60.17 | Latitude: 444619.03 Longitude: 912540.6 | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO Structure Located on National Highway System | | | | | | | | | | | | | | |
| For Survey and CADD Files Horizontal Coordinate System: Vertical Datum: | | Traffic Forecast Data <table border="1"> <thead> <tr> <th>Design Year</th> <th>Average Daily Traffic (ADT)</th> <th>Roadway Design Speed</th> <th>Functional Class</th> </tr> </thead> <tbody> <tr> <td>Feature On 2014</td> <td>14200</td> <td>70 MPH</td> <td>Principal Arterial</td> </tr> <tr> <td>Feature Under KEYSTONE CROSSING</td> <td></td> <td></td> <td>Collector</td> </tr> </tbody> </table> | | | Design Year | Average Daily Traffic (ADT) | Roadway Design Speed | Functional Class | Feature On 2014 | 14200 | 70 MPH | Principal Arterial | Feature Under KEYSTONE CROSSING | | | Collector |
| Design Year | Average Daily Traffic (ADT) | Roadway Design Speed | Functional Class | | | | | | | | | | | | | |
| Feature On 2014 | 14200 | 70 MPH | Principal Arterial | | | | | | | | | | | | | |
| Feature Under KEYSTONE CROSSING | | | Collector | | | | | | | | | | | | | |
| Region Contact: Adam Hetrick (Area Code) Telephone Number(s): 715-836-2855 Email: adam.hetrick@dot.wi.gov | | Consultant Contact: (Area Code) Telephone Number(s): Email: | | | | | | | | | | | | | | |

Work To Be Performed

Field Information Required Item Number (see Pages 2-4)

- ☐ A. Structural Repair 1-3, 22
☒ B. Overlay 1-3, 10-22, 26-28, 32, 34
 ☐ Concrete Overlay ☐ Asphalt Overlay
 ☐ Polymer Modified Asphalt Overlay ☒ Thin Bonded Polymer Overlay
 ☐ Other: _____
☐ C. New Bearings 3, 8, 9, 22
☐ D. New Railings 15-17, 20-23
☐ E. Curb and Sidewalk Repair 2, 3, 16, 22, 23
☐ F. Abutment Repair 2, 3, 12, 16
☐ G. Pier Repair 2, 3, 12, 16
☐ H. New Deck 1-6, 9, 10, 13-28, 32-34
☐ I. Widening 1-28, 30, 32-35
☐ J. Joint Repair 2, 3, 8, 16, 19, 22
☐ K. Surface Repair 2, 3, 22
☐ L. Raising Bridge 3, 6, 9, 16, 20-24
☐ M. Slope Stabilization 1-3, 30
☐ N. Scour Repair 1, 2 or 3, 16, 19, 21, 27, 29, 31-35
☐ O. Painting 16, 22, 24
☐ P. Other: _____

Field Information Required

If no structure number exists provide the following: Small County Map on which the location of proposed structure is shown in red and any highway relocation in green. In addition, provide Location Map of scale not less than 1" = 2000' showing the structure location and number.

- ☒ 1. Most recent inspection report, brief history of bridge construction date, and description of repairs with dates.
- ☒ 2. Outline deficient areas on existing structure plan or drawing.
- ☒ 3. Photographs of details requiring repairs or modifications, such as: bearings, x-frames, joints, etc. Photograph all deficient areas. Clearly label all photographs.
- ☐ 4. Provide proposed typical section for roadway and structure showing dimensions and cross slopes.
- ☐ 5. Survey beam seat or girder elevations at both sides of bridge at all substructure units.
- ☐ 6. Provide cross-section elevations at 10 foot intervals extending across the structure and a minimum of 100 feet beyond each end. Sections should be normal to centerline and show elevations at centerline roadway and gutter line. Take elevations along joints and at floor drains.
- ☐ 7. Show and identify starting stationing on bridge.
- ☐ 8. Record measurement, temperature of the structure, and date taken for each of the following:
 - (a) Joint opening measured normal to joint at centerline of roadway and both curb lines.
 - (b) Clearance between girder ends at piers.
 - (c) Distance from front face of abutment backwall to closest point of girder end measured parallel to girder.
 - (d) Temperature of structure determined by averaging top and under deck (if accessible) readings.
- ☐ 9. Fixed and expansion bearings - condition and orientation.
- ☒ 10. Number and width of proposed pours including construction staging sequence.
- ☒ 11. Location of existing construction joints in the deck.
- ☒ 12. Estimated Quantities:

| | | |
|--|------------------|----------------------------|
| Preparation, Decks, Type 1 | Sq. Yd. <u>0</u> | |
| Preparation, Decks, Type 2 | Sq. Yd. <u>0</u> | |
| Full Depth Deck Repair | Sq. Yd. <u>0</u> | Galvanic Anodes? <u>NO</u> |
| Concrete Surface Repair Superstructure | Sq. Ft. <u>0</u> | Galvanic Anodes? <u>NO</u> |
| Concrete Surface Repair Substructure | Sq. Ft. <u>0</u> | Galvanic Anodes? <u>NO</u> |
| Curb Repair | LF. <u>0</u> | Galvanic Anodes? <u>NO</u> |

☒ 13. Sufficiency number: 98.0 (obtain from HSI Bridge Inventory System)

☒ 14. Appraisal and Condition Rating

| | Deck Condition | Superstructure Condition | Substructure Condition | Load Capacity Appraisal | Structural EVAL Appraisal |
|---------|----------------|--------------------------|------------------------|-------------------------|---------------------------|
| Current | 6 | 6 | 7 | 5 | 6 |

☒ 15. Load Ratings

| | Inventory | Operational |
|--|-----------|-------------|
| Current Calculated Date: 07/11/2013 | HS23 | HS39 |
| After Completed by Bridge Designer | | |

- ☒ 16. Utilities on/near Structure. (WisDOT policy is to avoid placing utilities on the structure.)

☐ Yes ☒ No

| Type | Owner and Contact Information | Size | Opening at Abutment | Weight | Pressure |
|------|-------------------------------|------|---------------------|--------|----------|
| | | | | | |
| | | | | | |
| | | | | | |

- ☒ 17. Is existing bridge railing deficient?

☐ Yes ☒ No If Yes – Replacement Rail Type:

- ☐ 18. Drains to be:

☐ Raised ☐ Closed ☐ Downspouted ☐ New

- ☒ 19. Traffic maintained on bridge during work?

☒ Yes ☐ No If Yes – Include sketches

- ☒ 20. Will guard rail be attached?

☐ Yes ☒ No If Yes – Which corners? Existing guardrail to remain at all corners.

- ☒ 21. Will work to be performed eliminate all deficiencies?

☒ Yes ☐ No If No – Explain:

- ☒ 22. Hazardous waste (asbestos) to be removed?

☐ Yes ☒ No If Yes – Explain:

- ☐ 23. Wing location(s) for surface drain anchors:

- ☒ 24. Painting?

☐ Yes ☒ No If Yes – Explain on Page 4

(all, part, railing, color system, containment, bid items)

- ☐ 25. Desired roadway width: (new deck / widening) _____ Ft.

Desired sidewalk clear width: Left: _____ Ft. Right: _____ Ft.

- ☒ 26. Maximum increase in grade line elevation 3/8 In.

- ☒ 27. Benchmark description to be shown

- ☒ 28. Desired final cross slopes on bridge 0.015 Ft./Ft.

- ☐ 29. Underwater Inspection Report including:

- Streambed Cross Section With Pier, Footing and Seal Elevations
- Pier Elevation Drawings
- Pier Layout
- Hydrographic Survey

- ☐ 30. Slope stabilization, provide:

Type: _____ Quantity: _____ CY.

Slope: _____ Ft./Ft. Fill: _____ CY.

- ☐ 31. Preliminary layout of grout bags or proposed scour repair.

C.I.P. Articulated Mats (for Scour) _____ CY.

Grout Bags (for Scour) _____ CY.

Heavy Riprap _____ CY.

Extra Heavy Riprap _____ CY.

- ☒ 32. Report submitted with Preliminary Plan requires **no** CADD file submittal (*See ESubmittal instructions*).
- ☐ 33. Report submitted for development of Preliminary Plan to structure design engineer requires CADD file (if available) submittal and Report submittal to Soils Engineer if project involves foundation modifications.
- ☐ 34. Coordinate with structure design engineer **before** going into the field if existing structure has no available plans, if staged construction is planned, or if there are adjoining/adjacent structures that will remain in place.
- ☐ 35. If project involves substructure widening coordinate with structure and/or hydraulic design engineer to determine if information on the separation and/or stream crossing SSR will be required.

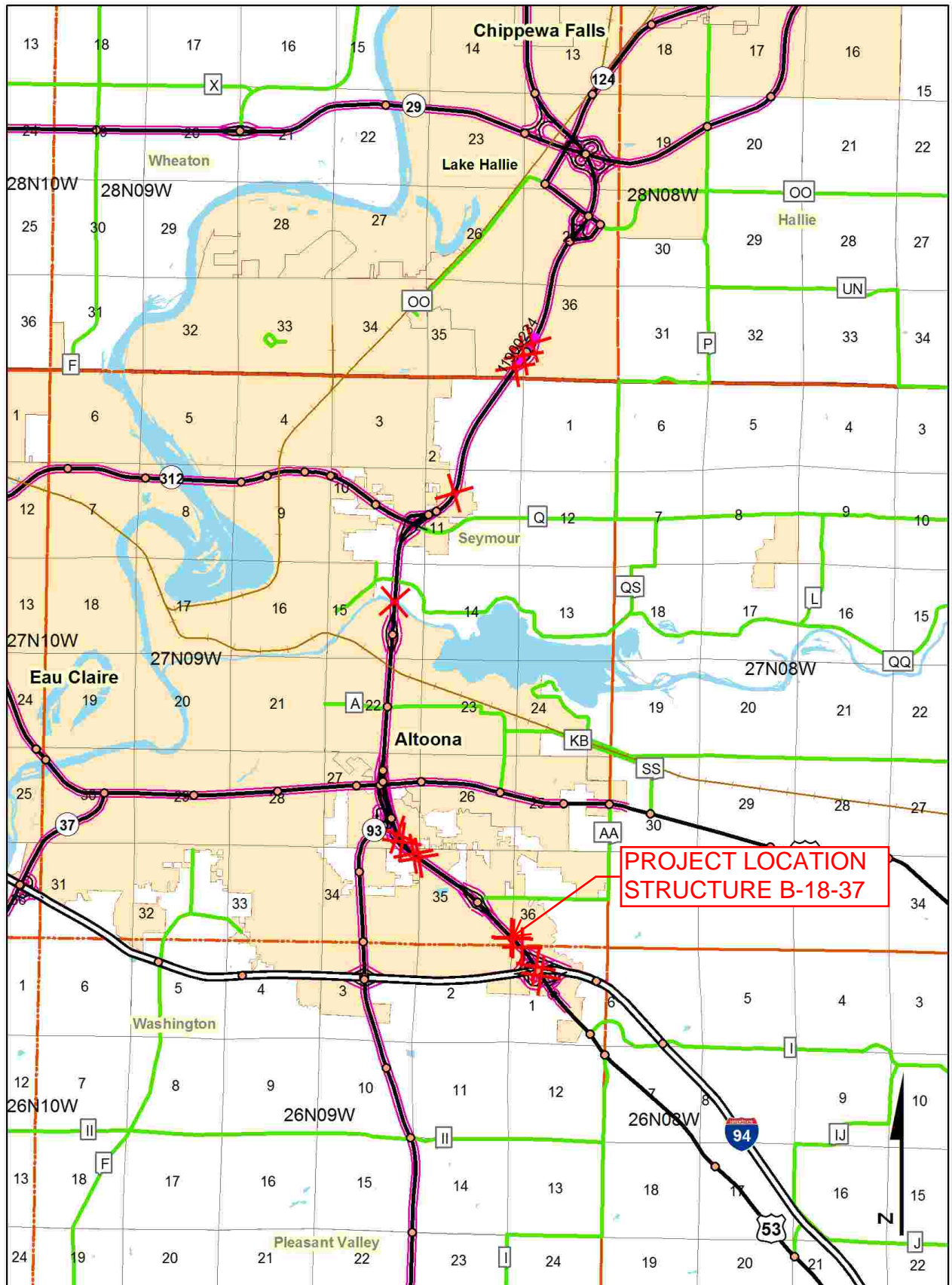
Additional Information

Elaborate on other concerns such as: DNR, Local, Utility Conflicts, Aesthetics, Railing Type and Staged Construction.

Please be as detailed and specific as possible.

- 1.) Structure built in 1966. Concrete Masonry Deck Overlay was completed in 1989 and in 2008. See attached Bridge Inspection Report.
- 2.) Deficient areas to be determined in the field by the engineer. See attached Bridge Inspection Report. A Polymer Overlay is proposed because of deficiency over the entire structure due to poor bridge deck surface. The deck has numerous hairline longitudinal/mapping cracks in the turn lane to I-94 WB and in the mainline bridge. The deck has numerous longitudinal and transverse cracks at the abutments. The bridge deck was scanned with Infrared Thermography in 2009 and showed 1.2% delamination.
- 3.) See attached photographs.
- 10.) This work will be constructed half at a time under traffic using single lane closures during non-peak hours with night work. Nighttime ramp closures are anticipated at some structures. All lanes and ramps will be opened to traffic daily.
- 11.) See asbuilt plans.
- 16.) No utilities on or near structure. No conflicts anticipated.
- 19.) This work will be constructed half at a time under traffic using single lane closures during non-peak hours with night work. Nighttime ramp closures are anticipated at some structures. All lanes and ramps will be opened to traffic daily.
- 22.) See attached Asbestos Inspection Report. Asbestos-containing material was found in the gasket under the railing attachment plates on the concrete parapet. If the asbestos-containing material is not disturbed during construction, the asbestos-containing material can remain.
- 27.) To be determined.
- 32.) See preliminary plans.

CDR Map

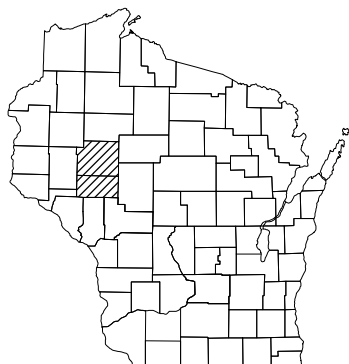


1190-02-64

EAU CLAIRE / CHIPPEWA

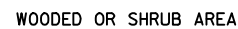
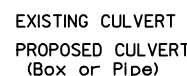
| | |
|---------------|------------------------------|
| Section No. 1 | Title |
| Section No. 2 | Typical Sections and Details |
| Section No. 3 | Estimate of Quantities |
| Section No. 3 | Miscellaneous Quantities |
| Section No. 4 | Right of Way Plat |
| Section No. 5 | Plan and Profile |
| Section No. 6 | Standard Detail Drawings |
| Section No. 7 | Sign Plates |
| Section No. 8 | Structure Plans |
| Section No. 9 | Computer Earthwork Data |
| Section No. 9 | Cross Sections |

TOTAL SHEETS =



| | |
|--------------|---|
| A.A.D.T. | = |
| A.A.D.T. | = |
| D.H.V. | = |
| D.D. | = |
| T. | = |
| DESIGN SPEED | = |
| ESALS | = |

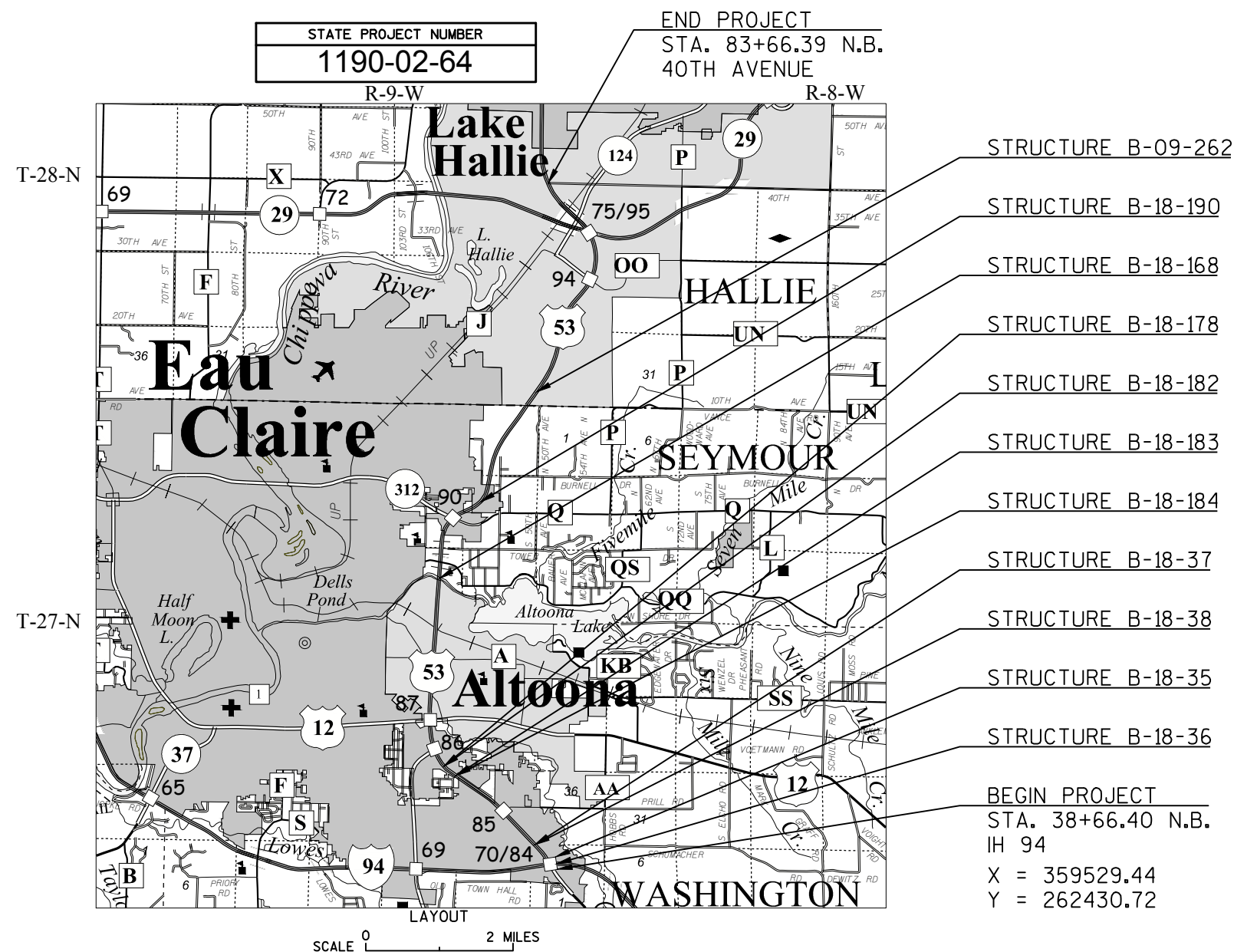
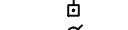
PLAN
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE



PROFILE
 GRADE LINE
 ORIGINAL GROUND
 MARSH OR ROCK PROFILE
 (To be noted as such)
 SPECIAL DITCH

 GRADE ELEVATION

 CULVERT (Profile View)
 UTILITIES
 ELECTRIC
 FIBER OPTIC
 GAS
 SANITARY SEWER
 STORM SEWER
 TELEPHONE
 WATER
 UTILITY PEDESTAL
 POWER POLE
 TELEPHONE POLE



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, EAU CLAIRE COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

| STATE PROJECT | FEDERAL PROJECT | |
|---------------|-----------------|----------|
| | PROJECT | CONTRACT |
| 1190-02-64 | | |
| | | |
| | | |
| | | |

| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION | |
|--|-------------------|
| PREPARED BY | |
| Surveyor | WISDOT |
| Designer | ADAM HETRICK |
| Project Manager | DAVID KOEPP |
| Regional Examiner | REGIONAL EXAMINER |
| Regional Supervisor | TIMOTHY MASON |
| APPROVED FOR THE DEPARTMENT | |
| DATE: | (Signature) |



route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.043

Lat: 44.77255593 Long: -91.42868141 Elev: 835.27 ft.

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route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.053

Lat: 44.77245365 Long: -91.42853794 Elev: 835.07 ft.

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route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.063

Lat: 44.77235086 Long: -91.42839319 Elev: 834.65 ft.

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route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.073

Lat: 44.7722493 Long: -91.42824979 Elev: 834.17 ft.

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route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.083

Lat: 44.77214724 Long: -91.42810593 Elev: 833.84 ft.

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route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.093

Lat: 44.77204485 Long: -91.42796185 Elev: 833.21 ft.

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route: 053S county: EAU CLAIRE date: 08/14/2013 plm: 140.103

Lat: 44.7719419 Long: -91.42781745 Elev: 832.63 ft.

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**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

**Inspection Report for
B-18-037**

**USH 53 SB over TOWN RD
Jul 14, 2015**



| Type | Prior | Frequency (mos) | Performed |
|---------|----------|-----------------|-----------|
| Routine | 07-14-15 | 24 | X |
| Interim | 12-06-11 | 0 | |
| SI&A | 07-11-13 | 48 | |

Latitude 44°46'19.03"N
Longitude 91°25'40.60"W

Owner STATE HIGHWAY DEPT
Maintainer STATE HIGHWAY DEPT

Time Log

Team members

| Hours | Minutes | |
|-------|---------|--|
| 1 | 41 | |

| | Name | Number | Signature | Date |
|-----------|---------------|--------|--------------------------------------|------|
| Inspector | Frueh, Rick J | 1003 | Completed by HSI System Account(HSI) | |
| Reviewer | | | | |

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Identification & Location

| | | |
|------------------------------------|---|--------------------------------------|
| Feature On: USH 53 SB | Section Town Range: S35 T27N R09W | Structure Number: B-18-037 |
| Feature Under: TOWN RD | County: EAU CLAIRE(18) | |
| Location 2.1M S JCT STH 93 TO S | Municipality: TOWN-WASHINGTON(18024) | Structure Name: |

Geometry

measurements in feet, except where noted

| | | |
|--------------------------------|-------------------------------|----------------------------|
| Approach Roadway Width: 40 | Bridge Roadway Width: 64.0 | Total Length: 97.7 |
| Approach Pavement Width: 24 | Deck Width: 79.0 | Deck Area (sq ft): 7718 |

Traffic

| | Lanes | ADT | ADT year | Traffic Pattern |
|-------|-------|-------|----------|-----------------|
| On | 3 | 16200 | 1993 | ONE WAY TRAFFIC |
| Under | 2 | 35 | 1981 | TWO WAY TRAFFIC |

Capacity

Load Rating

| | | | |
|---------------------------|------------------------------------|-----------------------------|--------------------------------------|
| Inventory rating: HS23 | Overburden depth (in): 1.5 | Last rating date: | Controlling: SLAB Positive Moment |
| Operating rating: HS39 | Deck surface material: CONCRETE | Re-rate for capacity (Y/N): | Control location: 0.4 SPAN 1 |
| Posting: | Re-rate notes: | | |

Hydraulic

Classification

| | | |
|--|---------------------------|------------------------|
| Scour Critical Code(113): (N) NO WATERWAY | Q100 (ft3/sec): 0 | |
| High water elevation (ft): 0.0 | Velocity (ft/sec): 0.0 | Sufficiency #: 98.0 |

Span(s)

| Span # | Material | Configuration | Depth (in) | Length (ft) | Main |
|--------|---------------|---------------|------------|-------------|------|
| 1 | CONT CONCRETE | FLAT SLAB | | 30.5 | |
| 2 | CONT CONCRETE | FLAT SLAB | | 36.5 | Y |
| 3 | CONT CONCRETE | FLAT SLAB | | 30.5 | |

Expansion joint(s)

Temperature:

| | |
|-------|------|
| File: | New: |
|-------|------|

Vertical Clearance

| | Measurement file (ft) | File Date | Measurement new (ft) |
|------------------------------------|-----------------------|-----------|----------------------|
| Highway Minimum Under Cardinal | 14.5 | | |
| Highway Minimum Under Non-Cardinal | | | |
| Highway Minimum On | | | |
| Railroad Minimum Under | | | |

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Structure No.: **B-18-037**

Elements

| Chk | Element | Defect | Description | UOM | Total | Quantity in Condition State | | | |
|-----|---------|--------|--|-----|-------|-----------------------------|-------|---|---|
| | | | | | | 1 | 2 | 3 | 4 |
| X | 38 | | Reinforced Concrete Slab | SF | 7,718 | 7,680 | 38 | 0 | 0 |
| | | | Mill and overlay in 2008. West side of Bridge deck has turn lane to WB I-94. Deck was scanned with Infrared Thermography in 2009 and showed 1.2% delam. | | | | | | |
| | | 1130 | Cracking (RC) Few hairline leaching Longitudinal/transverse cracks at abutments. | SF | | 116 | 38 | 0 | 0 |
| | | 8514 | Concrete Overlay Mill and overlay in 2008. West side of Bridge deck has turn lane to WB I-94. Deck was scanned with Infrared Thermography in 2009 and showed 1.2% delam. | SF | 7,718 | 6,000 | 1,718 | 0 | 0 |
| | | 3220 | Crack (Wearing Surface) Numerous hairline to medium longitudinal cracks at abutments. | SF | | 4,112 | 1,718 | 0 | 0 |
| X | 205 | | Reinforced Concrete Column | EA | 14 | 10 | 4 | 0 | 0 |
| | | | OK | | | | | | |
| | | 1130 | Cracking (RC) Couple hairline vertical cracks. | EA | | 0 | 4 | 0 | 0 |
| X | 215 | | Reinforced Concrete Abutment | LF | 159 | 139 | 14 | 6 | 0 |
| | | | | | | | | | |
| | | 1080 | Delamination - Spall - Patched Area 3 ft X 2 ft spall in Southwest corner behind wingwall with expose rebar. | LF | | 0 | 0 | 6 | 0 |
| | | 1130 | Cracking (RC) Few hairline vertical cracks. | LF | | 26 | 14 | 0 | 0 |
| X | 331 | | Reinforced Concrete Bridge Rail | LF | 236 | 210 | 26 | 0 | 0 |
| | | | Concrete parapet railing has a Aluminum tubing on top. | | | | | | |
| | | 1080 | Delamination - Spall - Patched Area Few concrete patched spalls. | LF | | 0 | 26 | 0 | 0 |
| | | 1130 | Cracking (RC) Few hairline vertical cracks | LF | | 44 | 26 | 0 | 0 |
| X | 8400 | | Integral Wingwall | EA | 4 | 0 | 3 | 1 | 0 |
| | | | | | | | | | |
| | | 8902 | Wingwall Movement All the wings have tipped outward little bit. Northeast wingwall tipped outward about 3 1/2". | EA | | 0 | 3 | 1 | 0 |

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Structure No.: **B-18-037**

Assessments

| Chk | Element | Defect | Description | UOM | Total | Quantity in Condition State | | | |
|-----|---------|--------|---|-----|-------|-----------------------------|---|---|---|
| | | | | | | 1 | 2 | 3 | 4 |
| X | 9007 | | Median Bridge Median between I-94 off ramp and South bound 53 (mainline). | EA | 98 | 98 | 0 | 0 | 0 |
| X | 9030 | | Signs - Object Markers 2 North End. | EA | 4 | 4 | 0 | 0 | 0 |
| X | 9043 | | Slope Protection- Crushed Aggregate with Bit. New in 1996. South slope bottom half reoil in 2008. South slope has 4 ft block retaining wall and sidewalk at toe. | EA | 2 | 2 | 0 | 0 | 0 |
| X | 9322 | | Approach Roadway - Concrete (non-structural) | EA | 2 | 2 | 0 | 0 | 0 |
| X | 9335 | | Decorative Rail West Alum tube 6th mounting bracket from north is broken away from Alum tube. West Alum rail is bent. Cut in Alum on East rail at 4th mounting bracket. | EA | 2 | 0 | 2 | 0 | 0 |

NBI Ratings

| | File | New |
|----------------|------|-----|
| Deck | 6 | 6 |
| Superstructure | 6 | 6 |
| Substructure | 7 | 7 |
| Culvert | N | N |
| Channel | N | N |
| Waterway | N | N |

Structure Specific Notes

The spalls at the transv. saw cut are getting worse and need to be addressed either with county repair or new o-lay.

Inspection Specific Notes

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Walk around.

Special Requirements

| | Chk | Comments |
|------------------|-----|----------|
| Traffic Control | | |
| Access Equipment | | |
| Other | | |

Special Components

| Component | Year | Work Performed | Note |
|-----------------|------|--------------------|------|
| DECK - IOWA MIX | 1989 | OVERLAY - CONCRETE | |

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Structure No.: **B-18-037**

Construction History

| Year | Work Performed | FOS id |
|------|--------------------|------------|
| 2008 | OVERLAY - CONCRETE | 1191-06-61 |
| 1989 | OVERLAY - CONCRETE | 0018-94-10 |
| 1966 | NEW STRUCTURE | |

Maintenance Items History

| Item | Recommended by | Status | Status change | Year completed |
|------|----------------|--------|---------------|----------------|
|------|----------------|--------|---------------|----------------|

Maintenance Items

| Item | Priority | Recommended by | Status | Status change |
|------|----------|----------------|--------|---------------|
|------|----------|----------------|--------|---------------|

Routine
Document Comment/Description



Routine
Document Comment/Description



Routine
Document Comment/Description





708 Heartland Trail, Suite 3000
Madison, WI 53717

608.826.3600 PHONE
608.826.3941 FAX

www.TRCSolutions.com

Bridge Asbestos Inspection Report

WisDOT Project ID: 1190-02-34

Structure Number: B-18-0037, B-18-0038

Structure Name: USH 53 over Town Road

City/County: Town of Washington, Eau Claire County

Lat/Long Coordinates: 444619.03/ 912540.6, 444619.34/ 912537.97

TRC Project Number: 235777.0000.0000

Date Inspected: October 14, 2015

Inspected By/License Number: John Roelke, All-119523

Findings:

The inspection to identify and collect samples of potential asbestos-containing material (ACM) was completed following WisDOT standard sampling procedure for bridge inspections found in FDM 21-35-45.

On both of the bridges, the gaskets located under the railing attachment plates on the parapet tested positive for asbestos greater than 1% and is therefore regulated ACM. If the ACM will be disturbed during the planned overlays, the ACM must be removed prior to any work.

Standard Special Provision (STSP) 203-005 should be incorporated into the specifications. If the ACM will not be disturbed during the planned overlays, STSP 107-120 should be included in the specifications.

| Sample Number | Sample Description | Sample Location | Analytical Results and Method | Friable/ Non-friable or No ACM | Quantity of ACM Material |
|---------------|--------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| B-18-0037 | | | | | |
| 1 | Gasket | Under railing attachment plate | PLM, 3% | Friable | 30x7"x7" + 4x20"x8" = 15 sq ft |
| 2 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 3 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 4 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 5 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 6 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |

| Sample Number | Sample Description | Sample Location | Analytical Results and Method | Friable/ Non-friable or No ACM | Quantity of ACM Material |
|---------------|--------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 7 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 8 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 9 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 10 | Caulk | Abutment joint | PLM, non-detect | No ACM | 0 |
| 11 | Caulk | Abutment joint | PLM, non-detect | No ACM | |
| 12 | Caulk | Abutment joint | PLM, non-detect | No ACM | |
| B-18-0038 | | | | | |
| 1 | Gasket | Under railing attachment plate | PLM, 10% | Friable | 30x7"x7" + 4x20"x8" = 15 sq ft |
| 2 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 3 | Gasket | Under railing attachment plate | Not analyzed, positive stop | -- | |
| 4 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 5 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 6 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 7 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | 0 |
| 8 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 9 | Caulk | Parapet expansion joint | PLM, non-detect | No ACM | |
| 10 | Caulk | Abutment joint | PLM, non-detect | No ACM | 0 |
| 11 | Caulk | Abutment joint | PLM, non-detect | No ACM | |
| 12 | Caulk | Abutment joint | PLM, non-detect | No ACM | |

If you have any questions, please contact me, at (608) 826-3628.

TRC Environmental Corporation

Daniel Haak

Daniel Haak
Project Manager

John Roelke

John Roelke
Asbestos Inspector

Attachments: Location Map, Photos, and Laboratory Reports

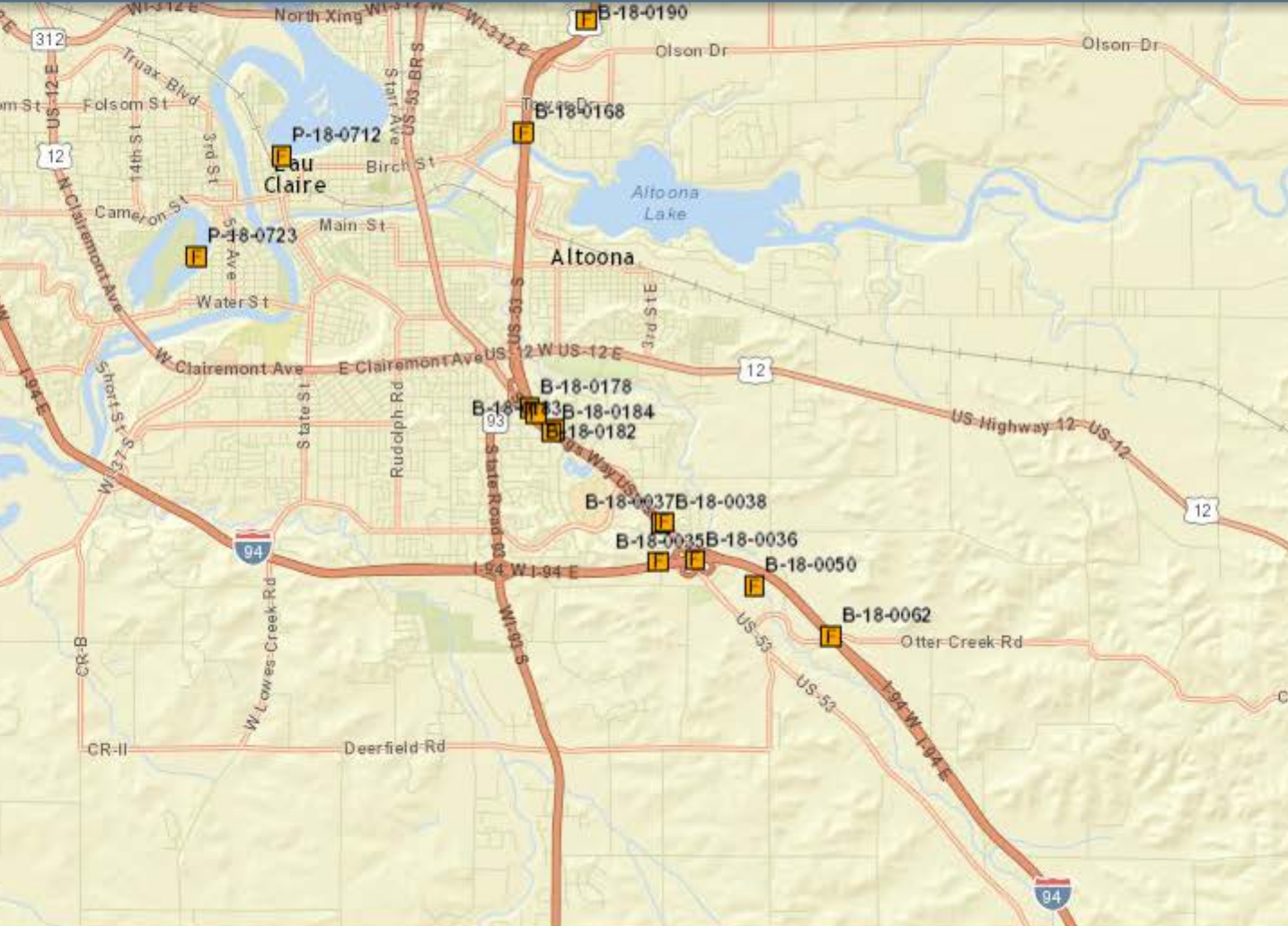
\\NTAPB-MADISON\MSN-VOL6\-\WPMSN\PJT2\235777\0000\1190-02-34_B-18-0037 AND B-18-0038_USH 53 OVER TOWN ROAD_EAU CLAIRE



Report Distribution:

| Recipient | Electronic (PDF) Copy | Paper Copy |
|--|-----------------------|------------|
| BTS-ESS sharlene.tebeest@dot.wi.gov | X (via email) | X |
| REC amy.adrihan@dot.wi.gov ; nicholasA.schaff@dot.wi.gov | X (via email) | |
| Project Manager david.koepp@dot.wi.gov | X (via email) | |
| Other | | |





B-18-0037



Gasket under railing attachment plate



Caulk in parapet expansion joint



Caulk in parapet expansion joint



Caulk in abutment joint



B-18-0038



Gasket under railing attachment plate



Caulk in parapet expansion joint



Caulk in abutment joint





BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

Lab Log #: 0047021
Project #: 235777.0000.0000
Date Received: 10/16/2015
Date Analyzed: 10/19/2015

Site: DOT Bridge Inspection, B-18-37

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|-------------|-------|------------|---------------|-----------|------------------------|------------|---------------|
| B-18-37 (1) | Grey | Yes | No | -- | --- | 3% | Chrysotile |
| B-18-37 (2) | -- | -- | -- | -- | -- | NA/PS | -- |
| B-18-37 (3) | -- | -- | -- | -- | -- | NA/PS | -- |
| B-18-37 (4) | Grey | Yes | No | -- | --- | ND | None |
| B-18-37 (5) | Grey | Yes | No | -- | --- | ND | None |
| B-18-37 (6) | Grey | Yes | No | -- | --- | ND | None |
| B-18-37 (7) | Grey | Yes | No | -- | --- | ND | None |
| B-18-37 (8) | Grey | Yes | No | -- | --- | ND | None |
| B-18-37 (9) | Grey | Yes | No | -- | --- | ND | None |

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

| | | | | | | |
|-------------------------|-----------------------|--------------|---------------------|-----------------|------------|--------------|
| NVLAP Lab Code 101424-0 | AIHA-LAP, LLC #100122 | CT #PH-0426 | ME LA-0075, LB-0071 | MA #AA000052 | NY #10980 | WV# LT000411 |
| RI #AAL-007 | TX #300354 | VT #AL014538 | LA#05011 | VA #3333 000283 | AZ #A20944 | HI #L-09-004 |
| CO# AL-15020 | | PHIL# 461 | | PA#68-03387 | | NJ #CT004 |
| | | | | | | CA #2907 |



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2016. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2016. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by: Aud. Parks
Amanda Parkins, Approved Signatory

Date Issued
10/19/2015

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426
VT #AL014538 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071 MA #AA000052
AZ #A20944 HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907



BULK ASBESTOS ANALYSIS REPORT

CLIENT: Wisconsin Department of Transportation

Lab Log #: 0047035
Project #: 235777.0000.0000
Date Received: 10/16/2015
Date Analyzed: 10/20/2015

Site: DOT Bridge Inspection, B-18-38

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|--------------|-------|------------|---------------|-----------|------------------------|------------|---------------|
| B-18-38 (1) | Grey | Yes | No | -- | --- | 10% | Chrysotile |
| B-18-38 (2) | -- | -- | -- | -- | -- | NA/PS | -- |
| B-18-38 (3) | -- | -- | -- | -- | -- | NA/PS | -- |
| B-18-38 (4) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (5) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (6) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (7) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (8) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (9) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (10) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (11) | Grey | Yes | No | -- | --- | ND | None |
| B-18-38 (12) | Grey | Yes | No | -- | --- | ND | None |

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426
VT #AL014538 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411
AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

| Sample No. | Color | Homogenous | Multi-Layered | Layer No. | Other Matrix Materials | Asbestos % | Asbestos Type |
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|
|------------|-------|------------|---------------|-----------|------------------------|------------|---------------|

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Analyzed by: K. Williamson

Kathleen Williamson, Laboratory Manager

Reviewed by: Aud. Park

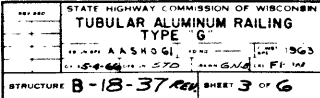
Amanda Parkins, Approved Signatory

Date Issued

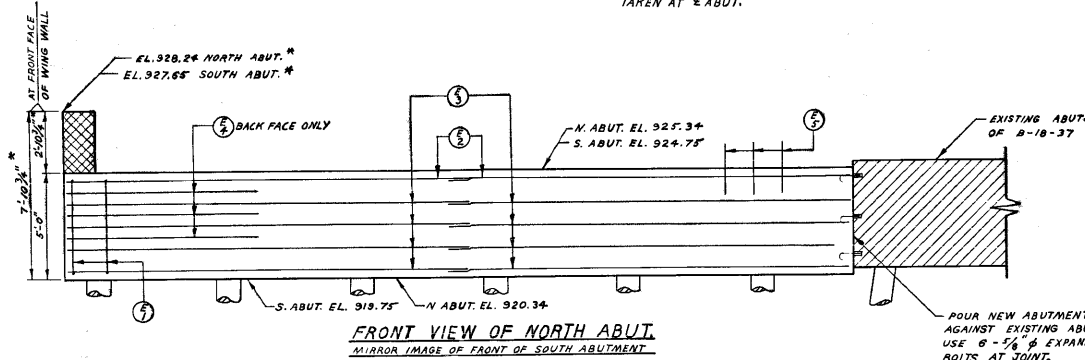
10/21/2015

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

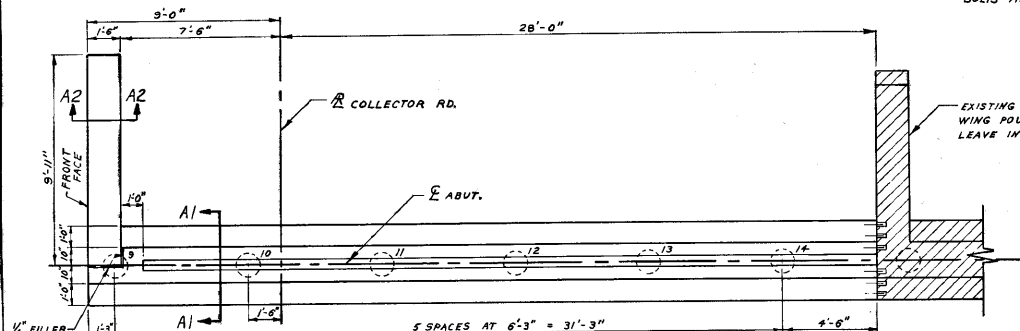
| | | | | | | |
|-------------------------|----------------------|--------------|---------------------|-----------------|------------|--------------|
| NVLAP Lab Code 101424-0 | AIHA-LAP,LLC #100122 | CT #PH-0426 | ME LA-0075, LB-0071 | MA #AA000052 | NY #10980 | WV# LT000411 |
| RI #AAL-007 | TX #300354 | VT #AL014538 | LA#05011 | VA #3333 000283 | AZ #A20944 | HI #L-09-004 |
| CO# AL-15020 | PHIL# 461 | PA#68-03387 | | | NJ #CT004 | CA #2907 |



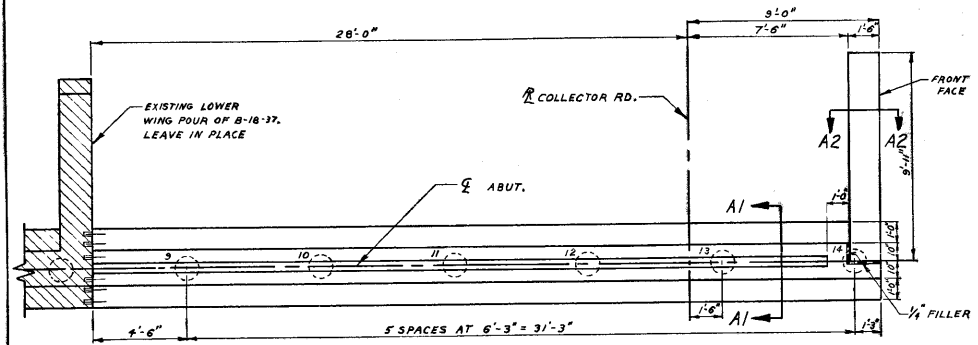
* TAKEN AT E ABUT.



FRONT VIEW OF NORTH ABUT.
MIRROR IMAGE OF FRONT OF SOUTH ABUTMENT

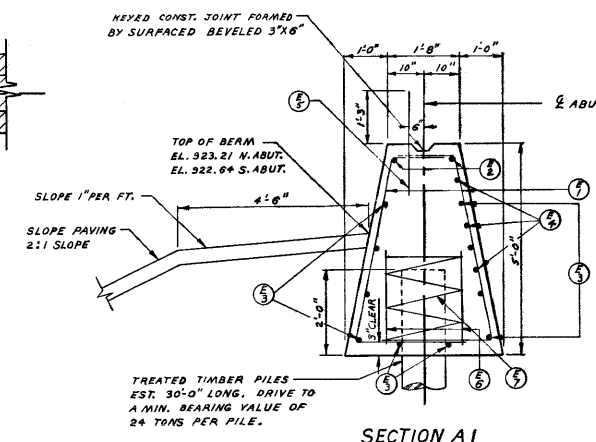
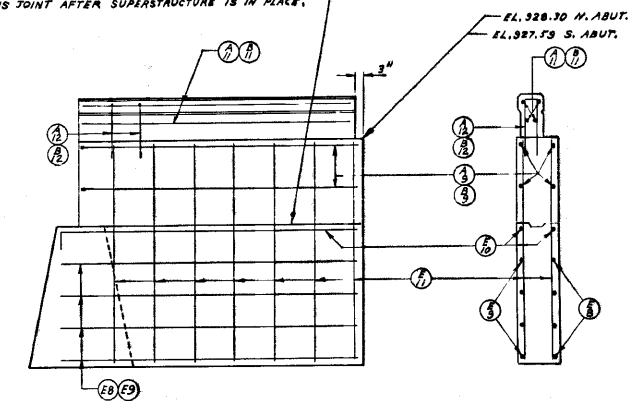


PLAN OF NORTH ABUT.



PLAN OF SOUTH ABUT.

KEYED CONST. JOINT FORMED BY SURFACED BEVELED 2"x6". POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE.

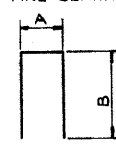


PARAPET DETAIL

NOTE: FILL TO THE BOTTOM OF SLOPE PROTECTION BEFORE DRIVING PILING. PLACE BOTTOM OF WING ON COMPACTED GROUND.

| | |
|--|---------------------------------------|
| REVISION | STATE HIGHWAY COMMISSION OF WISCONSIN |
| ABUTMENTS | |
| DESIGNED BY: A.A.S.H.O. 61 (LOADING HS-20) 1/363 | |
| DRAWN BY: L.J.S. (DRAWN L.J.S.) | |
| STRUCTURE B-18-37REV | SHEET 4 OF 6 |

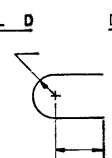
N 34911

[illegible]

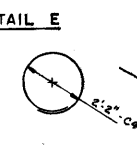
DETAIL B



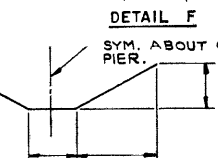
DETAIL D



DETAIL E



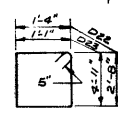
DETAIL 1



DETAIL K

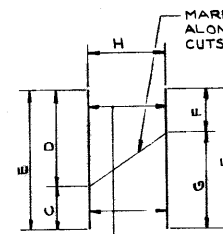
Diagram illustrating the connection of wire bars. Two circular cross-sections of bars are shown, with a line connecting them labeled "WIRE BARS TOGETHER @ 2'-0" CTR".

=
BUNDLING DETAIL



DETAIL L

"H" IS NUMBER OF
BARS BEFORE CUTTING



BENT BARS, IF USED, IN CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING

† CUTTING DIAGRAM

[illegible]

| | |
|---------------------------------------|----------|
| STATE HIGHWAY COMMISSION OF WISCONSIN | |
| BILL OF BARS | |
| AASHO 61 | HS20 196 |
| 5-466 LJS | DEO FRW |
| STRUCTURE B - 18-37REV SHEET 6 6 | |

34913

| POUR | MARK | NO. | SIZE | LENGTH | SPACING | LOCATION | DET |
|------|------|-----|------|--------|---------|---------------------------------------|-----|
| | S 1 | 80 | 6 | 28-6 | Shown | Slab-Transverse Bottom | |
| | S 2 | 80 | 6 | 18-6 | " | " " " | |
| | S 3 | 55 | 4 | 28-0 | 1-6 | " " " Top | |
| | S 4 | 55 | 4 | 18-6 | 1-6 | " " " " | |
| | S 5 | 74 | 4 | 16-6 | 1-3 | Longitudinal Top Spans 1 & 3 | |
| | S 6 | 74 | 11 | 13-0 | 1-3 | " " " Over Piers | |
| | S 7 | 37 | 4 | 8-6 | 1-3 | " " " Span 2 | |
| | S 8 | 92 | 9 | 28-2 | 1-0 | " " " Bottom Spans 1 & 3 | |
| | S 9 | 92 | 9 | 24-3 | 1-0 | " " " Spans 1 & 3 | |
| | S10 | 46 | 9 | 36-6 | 1-0 | " " " Span 2 | |
| | S11 | 46 | 9 | 22-9 | 1-0 | " " " " 2 | |
| | S12 | 86 | 5 | 4-4 | 1-0 | " " " at Abutment | A |
| | S13 | 6 | 4 | 26-6 | Shown | " " " " | |
| | S14 | 74 | 11 | 30-0 | 1-3 | Longitudinal Top over Piers | |
| | S15 | 260 | 5 | 6-6 | 0 | " " " & Curb | B |
| | S16 | 8 | 5 | 30-0 | Shown | Curb-Spans 1 & 3 | |
| | S17 | 8 | 5 | 18-9 | " | " " Span 2 | B |
| | S18 | 260 | 5 | 7-6 | 9 | Rail Parapet | C |
| | S19 | 204 | 5 | 13-3 | Shown | Slab-Stirrups over Piers | |
| | S20 | 24 | 9 | 29-0 | " | " " Transverse over Piers | |
| | S21 | 24 | 9 | 18-6 | " | " " " " " | |
| | S22 | 24 | 10 | 29-0 | " | " " " " | |
| | S23 | 24 | 10 | 18-6 | " | " " " " | |
| | S24 | 6 | 4 | 17-0 | " | " " " at Abutments | |
| | S25 | 84 | 4 | 2-3 | 1-0 | " " " " | |
| | R 1 | 16 | 5 | 12-3 | Shown | Rail Parapet | |
| | R 2 | 16 | 5 | 17-3 | " | " " " | |
| | R 3 | 8 | 5 | 13-9 | " | " " " | |
| | R 4 | 8 | 5 | 21-9 | " | " " " | |
| | D 1 | 80 | 6 | 28-9 | Shown | Slab-Transverse-Bottom | |
| | D 3 | 55 | 4 | 28-9 | " | " " " at Piers | |
| | D 4 | 24 | 10 | 28-9 | " | " " " Top | |
| | D 5 | 58 | 9 | 24-3 | 1-0 | " " " Longitudinal Bottom Spans 1 & 3 | |
| | D 6 | 29 | 9 | 22-9 | 1-0 | " " " Span 2 | |
| | D 7 | 60 | 9 | 28-9 | 1-0 | " " " " Spans 1 & 3 | |
| | D 8 | 30 | 9 | 36-6 | 1-0 | " " " " Span 2 | |
| | D 9 | 48 | 4 | 16-6 | 1-3 | " " " Top-Spans 1 & 3 | |
| | D10 | 48 | 11 | 30-0 | 1-3 | " " " Over Piers | |
| | D11 | 24 | 4 | 8-6 | 1-3 | " " " Span 2 | |
| | D12 | 48 | 11 | 13-0 | 1-3 | " " " Over Piers | |
| | D13 | 18 | 5 | 33-9 | Shown | Median-Longitudinal-Top | |
| | D14 | 6 | 8 | 20-0 | " | Slab at Median-Symmetrical over Piers | |
| | D15 | 4 | 11 | 20-0 | " | " " " Parapet Curb-Sym. over Piers | |
| | D16 | 234 | 6 | 6-0 | 10 | Median Transverse Top | A |
| | D17 | 234 | 4 | 6-9 | 10 | " " " " | B |
| | D18 | 54 | 4 | 2-3 | 1-0 | Slab at Abutments | |
| | D19 | 6 | 4 | 28-9 | Shown | " " " " | |
| | D20 | 54 | 5 | 4-3 | 1-0 | " " " " | |
| | D21 | 24 | 4 | 4-9 | Shown | Median at Abutments | |
| | D22 | 24 | 4 | 8-9 | 1-0 | " " " " | |
| | D23 | 138 | 5 | 13-0 | Shown | Stirrups at Piers | |

[illegible]

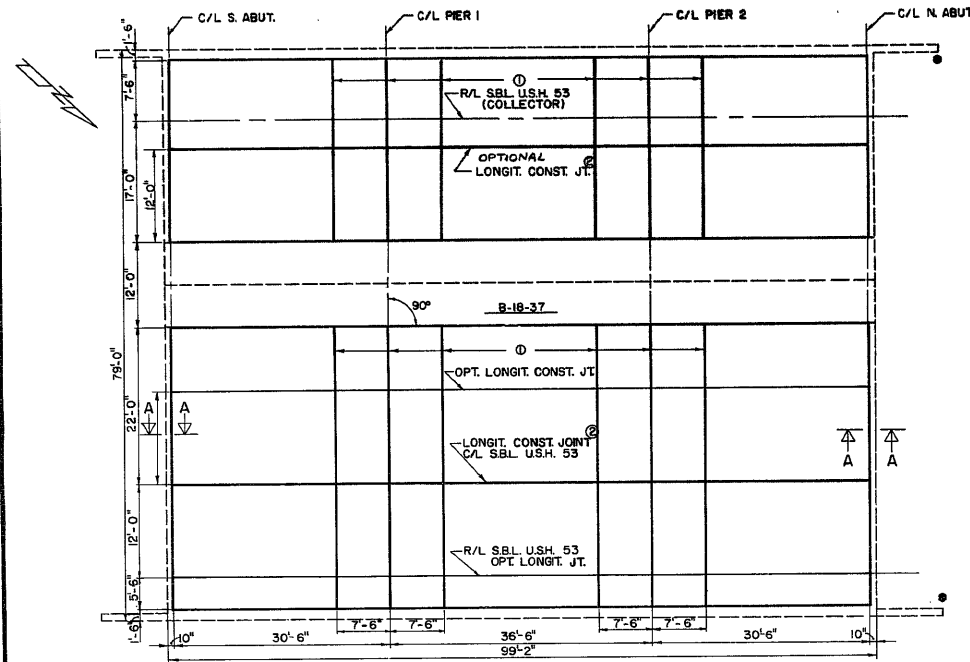
BARs FOR B-1B-37 REV.
 ** THESE A & B BARs ARE DELETED FROM B-1B-37 PROJ FOB-4(29) AND
 ARE REINCORPORATED IN B-1B-37 REV, SEE X28320 & X28322 FOR BENDING
 DETAILS.

OF SUPER STRUCTURE BAR STEEL FOR ORIGINAL B-18-38 AND ORIGINAL B-18-31, PLUS 3
*** THESE S&R BARS ARE FORMERLY SUPER STRUCTURE BARS FOR B-18-38
-PROJ. FOB-4(29) AND HAVE A TOTAL WEIGHT OF 68,140#. SEE EX 2B325 FOR
CORRESPONDING BENDING DETAILS.

[illegible]

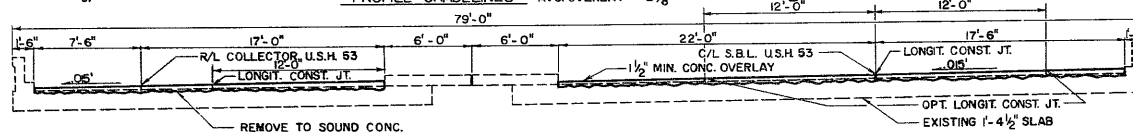
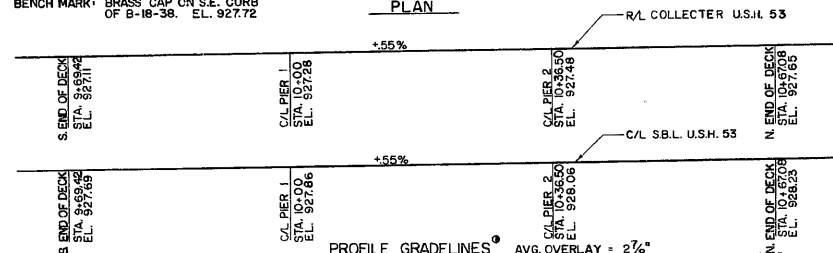
SUPERSTRUCTURE[®] 49560TM

| STATE PROJECT NUMBER | SHEET NO. |
|----------------------|-----------|
| 0018-94-10 | 8.1 |

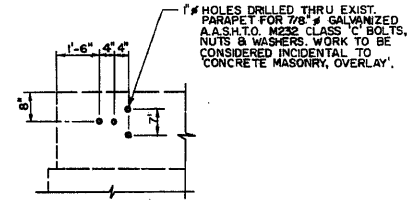


BENCH MARK: BRASS CAP ON S.E. CURB
OF B-18-38, EL. 927.72

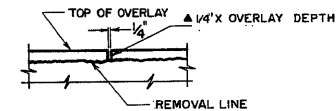
PLAN



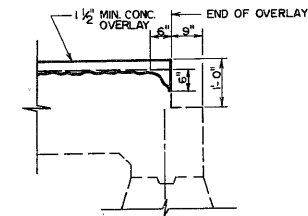
CROSS SECTION THRU ROADWAY
LOOKING NORTH



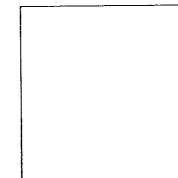
BEAM GUARD
ATTACHMENT DETAIL



TRANSVERSE JOINT
EXTEND JOINT 6" UP THE
FACE OF THE PARAPETS.



SECTION A-A



LAYOUT

GENERAL NOTES

DRAWING SHALL NOT BE SCALED.
ALL DIMENSIONS ARE PLUS OR MINUS
AND SHALL BE FIELD VERIFIED.
ANY VARIATION TO THE GRADELINE
OVER 1/4" MUST BE SUBMITTED FOR
REVIEW BY THE BRIDGE OFFICE.

- TWO ALTERNATES:
- INSTALL NEOPRENE COMPRESSION
SEAL RECESSED 1/8".
 - FILL OPENING WITH COLD APPLIED
ELASTIC TYPE JOINT SEALER

TRAFFIC IS TO BE MAINTAINED DURING
CONSTRUCTION.

TOTAL ESTIMATED QUANTITIES

| BID ITEMS | UNITS | TOTALS |
|---------------------------------|-------|--------|
| DECK PREPARATION | S.Y. | 20 |
| DECK CLEANING | S.Y. | 695 |
| CONCRETE MASONRY, OVERLAY | C.Y. | 61 |
| PROTECTIVE SURFACE TREATMENT | GAL. | 42 |

RATINGS

INVENTORY RATING—HS 21
OPERATIONAL RATING—HS 35

| | | | |
|--|-----------------|----------|-------------------------|
| No. | Date | Revision | By |
| STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| STRUCTURE B-18-37 | | | |
| SBL U.S.H. 53 OVER TOWN ROAD | | | |
| County | EAU CLAIRE | Town | WASHINGTON |
| Design Spec. | A.A.S.H.T.O. 88 | Load | Const. Spec. |
| Design | By D.C.B. | Drawn | By D.C.B. |
| Checked | B.D. | Checked | B.D. |
| Approved | 1-22-93 | Dis. | |
| CONCRETE OVERLAY | | | SHEET 1 OF 1 X 82224 |

B-18-37

PLANS RECEIVED