ANCHOR PLATE/TOP TEMPLATE

PLAN VIEW

ANCHOR PLATE/TOP TEMPLATE

PLAN VIEW

TOWER CAP DETAIL

TOWER CONNECTION DETAIL

BASE PLATE, ANCHOR BOLTS & COLUMN STIFFENER DETAILS

WEB MEMBERS & BOXED ENDS

TYPICAL WELDED ALTERNATE

HOLE FOR 3/4" BOLT

TYPICAL TRUSS CONNECTION DETAILS

WEB SIZE MILD STEEL

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

STRENGTH DEVELOPMENT SECTION

APPROVED: Bill Oliwa

STANDARD 59.03
TYPICAL INSTALLATION AT
BAR STEEL INTERSECTION

TYPICAL INSTALLATION
FOR BAR STEEL

PART, PLAN TYPICAL REPAIR DETAIL

DESIGNER NOTES
Cathodic protection shall be used only at the request of the owner. Provide maintenance drawings. Include applicable concrete coverage in plan to fill repairs.

NOTES
See special section "Embedded Galvanized Anode" for design, materials, construction, measurement, and payment information.

Layering Depth to Edge of Repair to be shown at 1/8" max.

Lattice placements: Galvanized anodes shall maintain a minimum top cover of 5/8" and a minimum bottom cover of 1/8".

CATHODIC PROTECTION
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: Bill Oliva
DATE: 8/18

STANDARD 40.02
RUPTURED VOID REPAIR

SECTION THRU PARAPET ON WING

SECTION THRU RAILING

SECTION AT END OF SLAB

DESIGNER NOTES
* SANDING PAVEMENT DECK PREPARATION AREAS NOT REQUIRED FOR CONCRETE OVERLAYS.
* USE TOOLS MACHINES DECK SANDING/DAUL/DUST FOR DECK REPAIRS TO MINIMIZE SPILLS, ADHERE TO PREVIOUS AND APPROPRIATE OVERLAYS. USE CONCRETE MASONRY DECK PREPARATION FOR DECK REPAIRS WITHOUT OVERLAYS.

OVERLAY DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DEVELOPMENT SECTION

APPROVED: Bill Oliva

DATE: 1-1-20
DESIGNER NOTES

PLAN VIEW APPLICABLE TO ALL DISPLAY METHODS AND DECK REPAIRS MENTIONED ABOVE.

FOR CROSS SECTIONS NOT IN SURFACE DECK THICKNESS, THE TYPICAL SURFACE DECK THICKNESS IS 6 IN. (INCHES) FROM THE DECK RNAH SLAB'S END TO THE HORIZONTAL OVERLAYTHICKNESS PLUS .5 IN. TO ACCOUNT FOR VARIATION IN THE DECK SURFACE.

COUNTIES IN CROSS-SECTION ARE BASED ON THE HORIZONTAL OVERLAYTHICKNESS, REPORTED AS BASED ON THE AVERAGE OVERLAYTHICKNESS.

DO NOT FORWARD A PRINTED DECK ON THE PLANS.

REMOVAL OF PCC EXISTING DECK UNDER BE ED CLEANS DECKS IS NOT RECOMMENDED FOR PREVIOUSLY OVERLAYED DECKS. EXISTING CONCRETE EMERG. IF UPPED, IT SHALL BE INCLUDED IN THE HORIZONTAL OVERLAYTHICKNESS.

PROVIDE A DETAIL OF AVAILABLE CONCRETE DECK CONDITION ASSESSMENT SURVEY ON PLANS, INCLUDE SURFACE TYPE AND RATE COMPLETE.

JOINT REPAIR AREAS SHOULDN'T BE INCLUDED IN DECK REPAIR AREAS OR OVERLAY QUANTITIES. SEE STANDARD FLOOR PLAN.

INCLUDE THE ED NEW ADJUSTABLE FLOOR PLANS WHEN APPLICABLE. REPAIR AREAS ON REMARK BARS SHOULDN'T BE PLACED ON THE PLANS TO PREVENT DAMAGE TO TYPICAL SHEET.

TOTAL ESTIMATED QUANTITIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Item No.</th>
<th>Unit</th>
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<tbody>
<tr>
<td>PROTECTIVE SURFACE TREATMENT</td>
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<tr>
<td>DECK REPAIRS TYPE 1</td>
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<td>DECK REPAIRS TYPE 2</td>
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<tr>
<td>CLEANSING DECKS</td>
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<td>FULL-DEPTH DECK REPAIR</td>
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<td>CONCRETE MASONRY DISPLAY DECKS</td>
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<tr>
<td>ADJUSTABLE FLOOR PLANS</td>
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</table>

THIS IS A PARTIAL LIST OF POSSIBLE DECK REPAIR ITEMS. OTHER ITEMS MAY NEED BE ADDED OR REMOVED TO SUIT EACH INDIVIDUAL NEED.

CONCRETE OVERLAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: Bill Oliva   2/05

STANDARD 40.31
**DESIGNER NOTES**

**PREVENTATIVE OVERLAY**

PREVENTATIVE OVERLAY

Designed for use on decks with a minimum age of 20 days and 2" of thickness. The polymer overlay may be required for cracks of 1/2" in width and 12" in length.

When the item "POLYMER OVERLAY" is used, rating should include the 5 YR OVERLAY.

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**TOTAL ESTIMATED QUANTITIES**

<table>
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<tbody>
<tr>
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<table>
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<tr>
<th>POLYMER OVERLAY</th>
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<tr>
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</table>

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**REHABILITATION OVERLAY**

REHABILITATION OVERLAY

Designed for use on decks that are not in good condition. The polymer overlay may be required for cracks of 1/2" in width and 12" in length.

When the item "POLYMER OVERLAY" is used, rating should include the 5 YR OVERLAY.

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**TOTAL ESTIMATED QUANTITIES**

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<tr>
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</tr>
<tr>
<td>TOTAL</td>
</tr>
</tbody>
</table>

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**NOTES**

*Drawings may not be scaled.*

**DESIGN DATA**

- **LOAD**: Final load
- **FUTURE LOAD**: Final load
- **AVERAGE TRAFFIC FACTOR**: 0.3
- **DECK SURFACE PATTERN**: Homogenous surface
- **OVERLAY MATERIAL**: Polymer overlay
- **OVERLAY THICKNESS**: 1" to 2"

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**STATE OF WISCONSIN**

DEPARTMENT OF TRANSPORTATION

STRENGTHS DEVELOPMENT SECTION

**APPROVED**: Bill Oliva

**DATE**: 2/15

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**STANDARD**: 40.38