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C.9	Standard Plans - Road - Fremont Design 727



PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM STATEWIDE COUNTY

Bridge Repair

Various Locations Statewide

Refer to the Plan Sheets for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



Iowa DOT Bridges and Structures
Consultant Coordinator Contact:
Christian Yi

Standard Road Plans

Standard Road Plans are listed on Sheet No. C.2 - C.9.

Design Data Rural

Refer to individual Situation Plans for Traffic Data information.

Index of Seals		
Sheet No.	Name	Type
A.1	J. Scott Ingersoll *	Structural Design
A.10	Jordan L. Provost *	Roadway Design

* Foth Infrastructure & Environment, LLC

Revisions

TOTAL	
79	
PROJECT IDENTIFICATION NUMBER	
26-00-000-160	
PROJECT NUMBER	
BRFN-000-T(461)--39-00	
R.O.W. PROJECT NUMBER	
PROJECT DIRECTORY NUMBER	
0000016026	

Structural Design

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature

J. Scott Ingersoll

04-23-2026

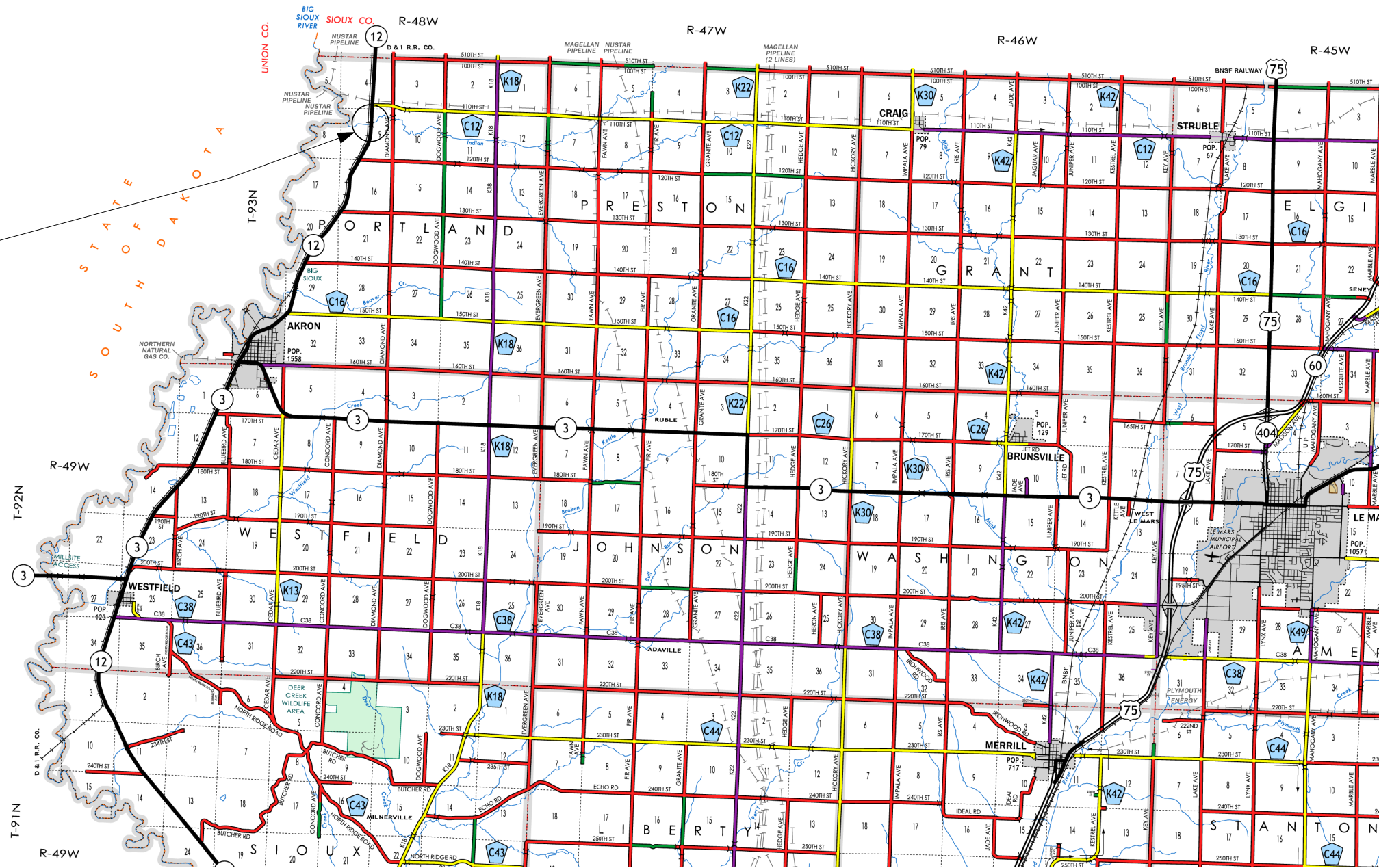
Date

Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: A.1 - A.9 & V.1 - V.46

Design No. 427
FHWA No. 40021

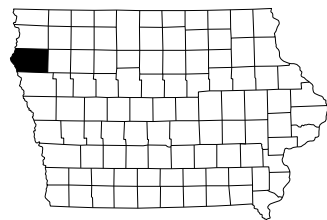


Plymouth County Location Map

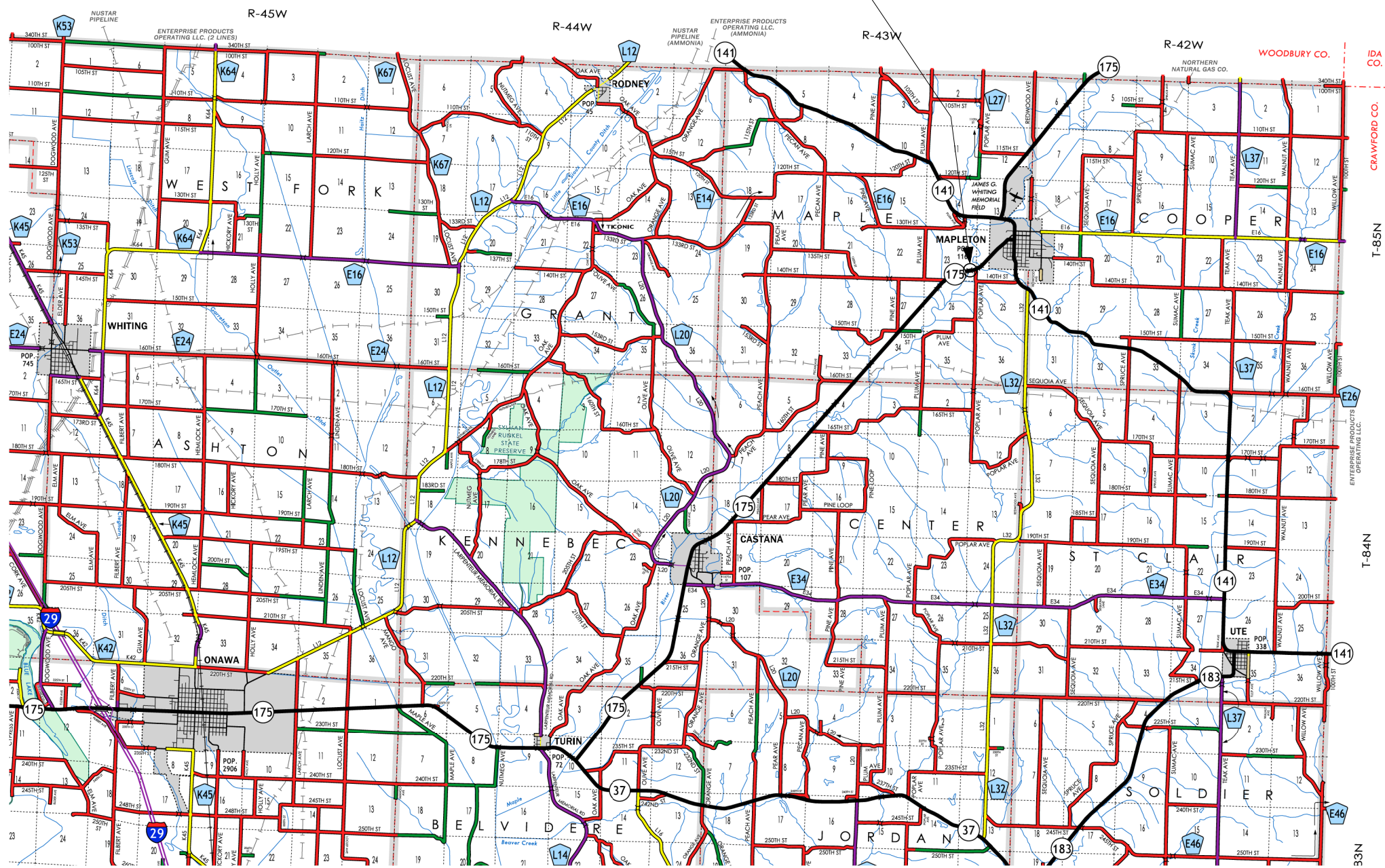
Not To Scale

LEGEND

- INTERSTATE HIGHWAY
- PRIMARY HIGHWAY-DIVIDED
- PRIMARY HIGHWAY
- PORTLAND CEMENT CONCRETE ROAD
- ASPHALT ROAD
- BITUMINOUS ROAD
- GRAVEL ROAD
- EARTHEN ROAD
- INTERSTATE HIGHWAY
- UNITED STATES HIGHWAY
- STATE HIGHWAY
- COUNTY HIGHWAY
- RAILROAD
- PIPELINE
- AIRPORT
- HYDROLOGY
- BRIDGE
- STATE BOUNDARY
- COUNTY BOUNDARY
- CORPORATE BOUNDARY
- TOWNSHIP LINE
- SECTION LINE
- ROAD NAMES
- UNINCORPORATED PLACE
- STATE PARKS
- STATE INSTITUTIONS
- FEDERAL LAND



Design No. 227
FHWA No. 37081



LEGEND

INTERSTATE HIGHWAY

PRIMARY HIGHWAY-DIVIDED

PRIMARY HIGHWAY

PORTLAND CEMENT CONCRETE ROAD

ASPHALT ROAD

BITUMINOUS ROAD

GRAVEL ROAD

EARTHEN ROAD

INTERSTATE HIGHWAY

UNITED STATES HIGHWAY

STATE HIGHWAY

COUNTY HIGHWAY

RAILROAD

PIPELINE

AIRPORT

HYDROLOGY

BRIDGE

STATE BOUNDARY

COUNTY BOUNDARY

CORPORATE BOUNDARY

TOWNSHIP LINE

SECTION LINE

ROAD NAMES

UNINCORPORATED PLACE

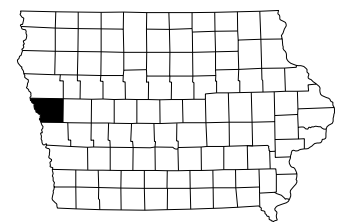
STATE PARKS

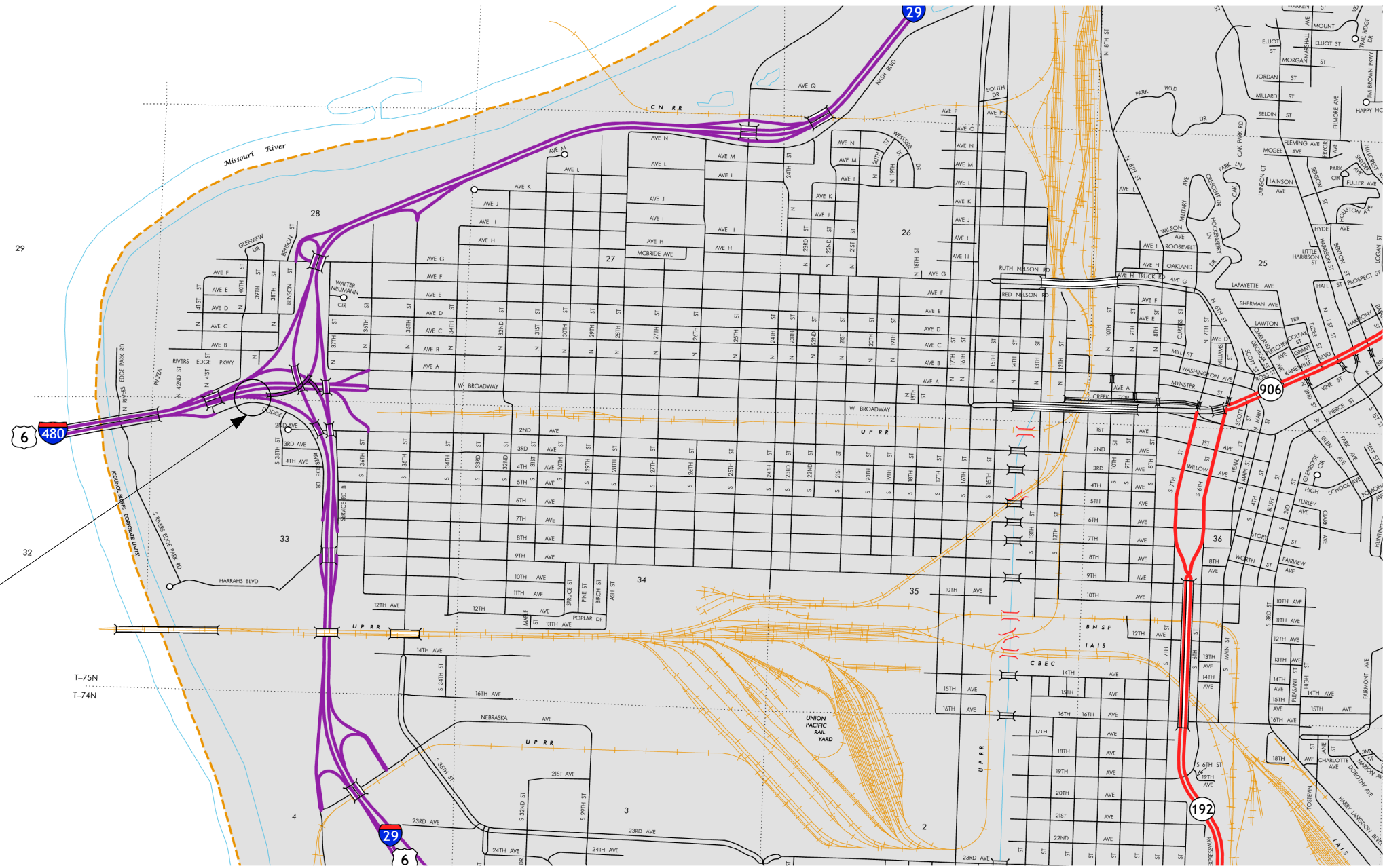
STATE INSTITUTIONS

FEDERAL LAND

Monona County Location Map

Not To Scale





LEGEND

- INTERSTATE ROUTE
- FREEWAY OR EXPRESSWAY ROUTE
- U.S. NUMBERED ROUTE
- BUSINESS ROUTE
- STATE NUMBERED ROUTE
- UNSIGNED ROUTE
- COUNTY NUMBERED ROUTE
- SECONDARY ROAD OR ADJOINING CITY STREET
- CITY STREET
- PARK, INSTITUTION, OR FEDERAL ROAD
- RAILROAD
- CORPORATION LINE
- SECTION LINE
- CUL-DE-SAC
- SECTION, TOWNSHIP & RANGE NUMBERS

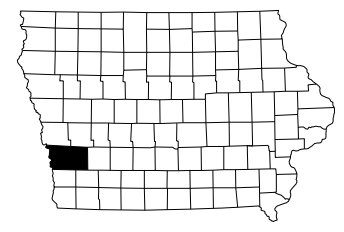


Pottawattamie County Location Map

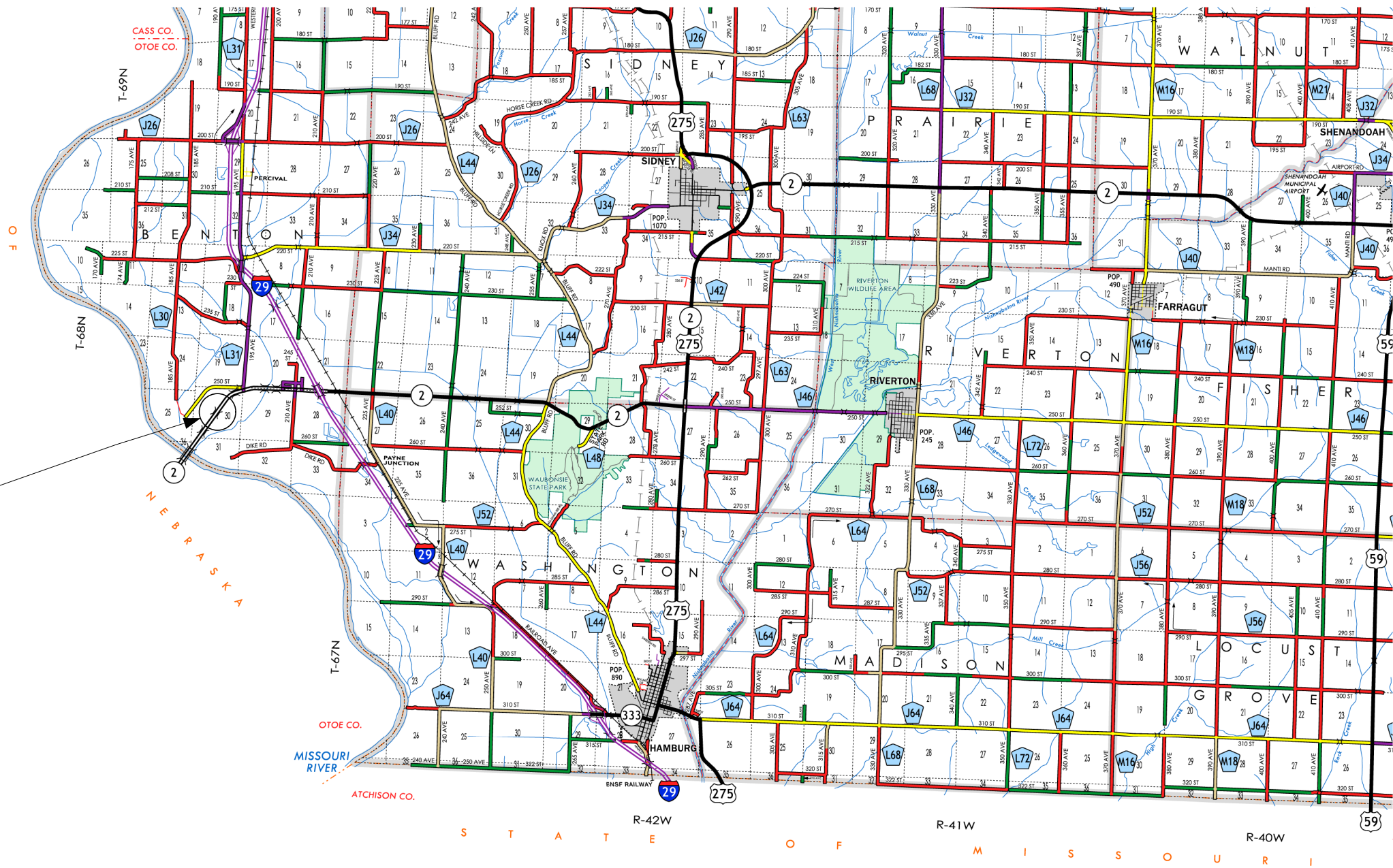
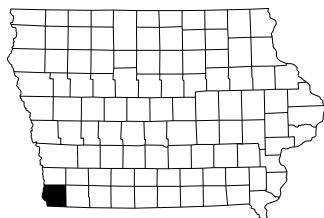
(Part of Council Bluffs)
Not To Scale



Design No. 527
FHWA No. 700965



Design No. 427
FHWA No. 701105



Fremont County Location Map

Not To Scale

LEGEND

INTERSTATE HIGHWAY

PRIMARY HIGHWAY-DIVIDED

PRIMARY HIGHWAY

PORTLAND CEMENT CONCRETE ROAD

ASPHALT ROAD

BITUMINOUS ROAD

GRAVEL ROAD

EARTHEN ROAD

INTERSTATE HIGHWAY

UNITED STATES HIGHWAY

STATE HIGHWAY

COUNTY HIGHWAY

RAILROAD

PIPELINE

AIRPORT

HYDROLOGY

BRIDGE

STATE BOUNDARY

COUNTY BOUNDARY

CORPORATE BOUNDARY

TOWNSHIP LINE

SECTION LINE

ROAD NAMES

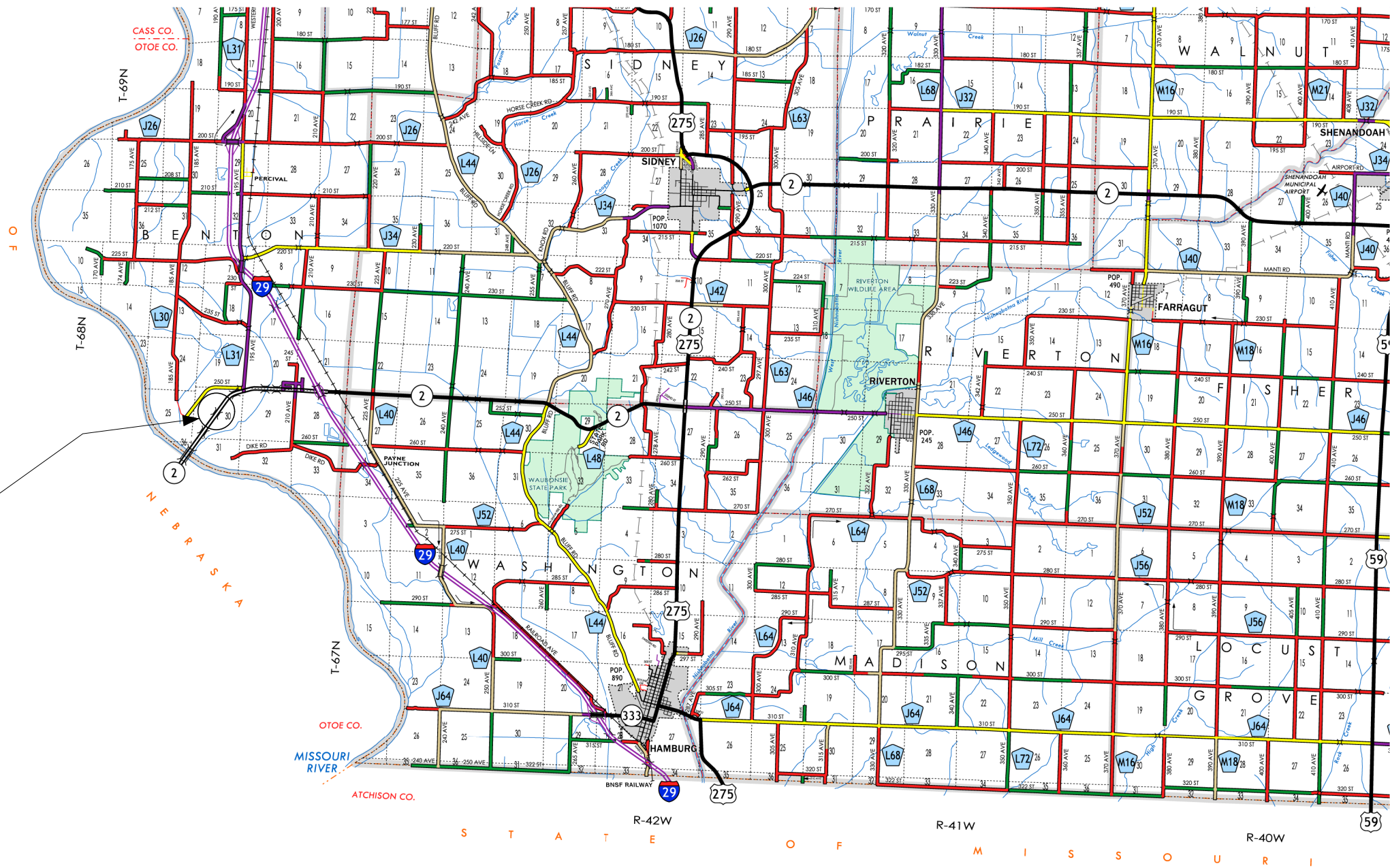
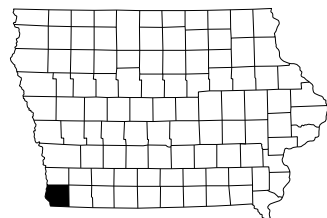
UNINCORPORATED PLACE

STATE PARKS

STATE INSTITUTIONS

FEDERAL LAND

Design No. 527
FHWA No. 701110



Fremont County Location Map

Not To Scale

LEGEND

INTERSTATE HIGHWAY

PRIMARY HIGHWAY-DIVIDED

PRIMARY HIGHWAY

PORTLAND CEMENT CONCRETE ROAD

ASPHALT ROAD

BITUMINOUS ROAD

GRAVEL ROAD

EARTHEN ROAD

INTERSTATE HIGHWAY

UNITED STATES HIGHWAY

STATE HIGHWAY

COUNTY HIGHWAY

RAILROAD

PIPELINE

AIRPORT

HYDROLOGY

BRIDGE

STATE BOUNDARY

COUNTY BOUNDARY

CORPORATE BOUNDARY

TOWNSHIP LINE

SECTION LINE

ROAD NAMES

UNINCORPORATED PLACE

STATE PARKS

STATE INSTITUTIONS

FEDERAL LAND

Estimate Bridge Repair Quantities and Reference Notes - Design #427					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 427	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	102	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	8692	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	1807	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 213'-10" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge on IA 12 over Indian Creek. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
2253	Original Design
221	Bridge Replacement - PPCB
427	Bridge Repair

Design For Repair To 30 Degree Skew RA

213'-10" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge

68'-3" End Spans77'-4" Interior Span

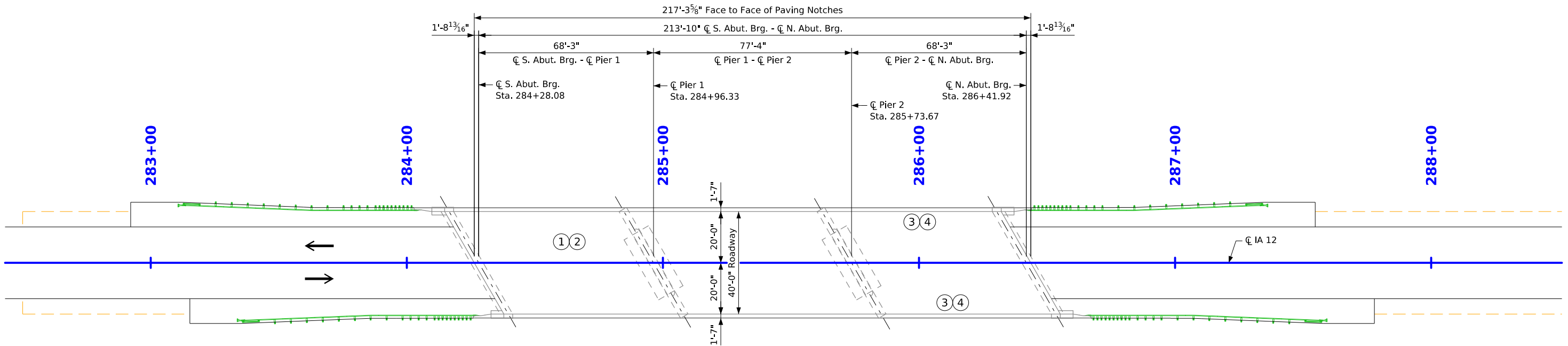
General Notes & Quantities

STA. 285+35.00 (IA 12)Turn-in Date: May 2026

Plymouth County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427Design Sheet No. 1 of 4FHWA No. 40021

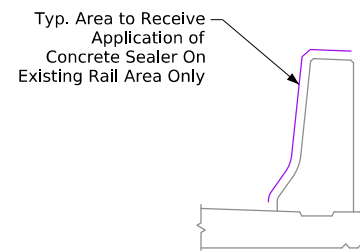


Situation Plan



Repairs Shall Consist of:

- ① Clean and prepare existing bridge deck.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge deck.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	1140 V.P.D.
2041 AADT	1200 V.P.D.
TRUCKS	27 %

Location

IA 12 over Indian Creek
T-93N R-48W
Section 9
Portland Township
Plymouth County
FHWA No. 40021
Bridge Maint. No. 7538.9S012
Latitude 42.890556°
Longitude -96.517222°

Design For Repair To 30 Degree Skew RA

213'-10" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge

68'-3" End Spans 77'-4" Interior Span

Situation Plan

STA. 285+35.00 (ϕ IA 12) Turn-in Date: May 2026


Plymouth County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427 Design Sheet No. 2 of 4 FHWA No. 40021


Scale	Bridge No. 7538.9 ⁵ 012 / 40021	Sketch by	Date	Page
	Sketch of: Legends			B-1

NOTE: Cracks Are Hairline Unless Otherwise Noted




-Scale


L- light
M- moderate
S- severe




-Hollow




-Spall




-P.C. Patch




-A.C. Patch




-Injected Epoxy




-Leaching




-Staining



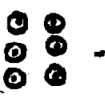
-Pattern Cracking



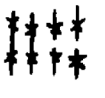
-Map Cracking




-Random Cracking



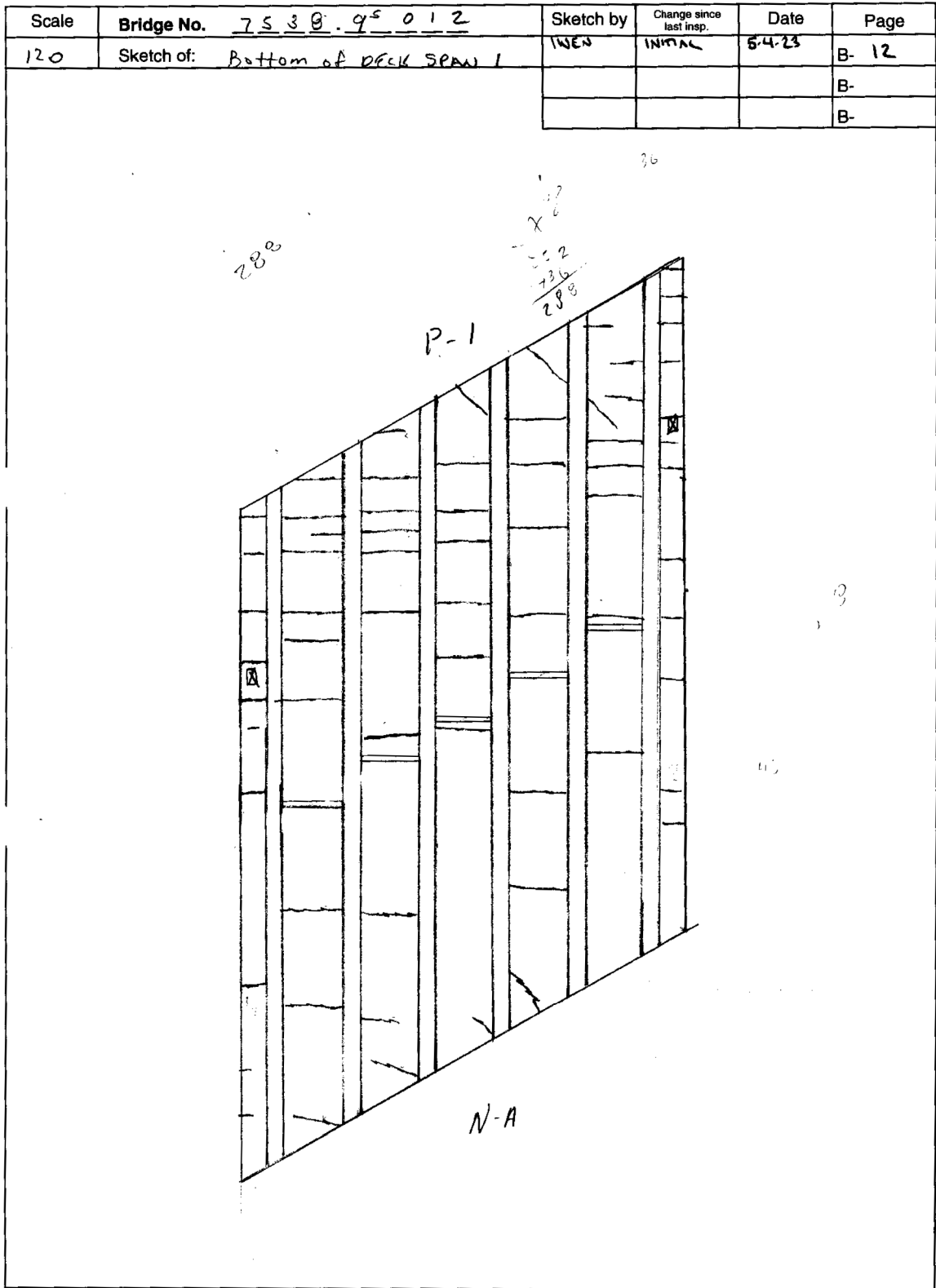
-Stalactites



-Exposed Reinforcing



-Bearing Location



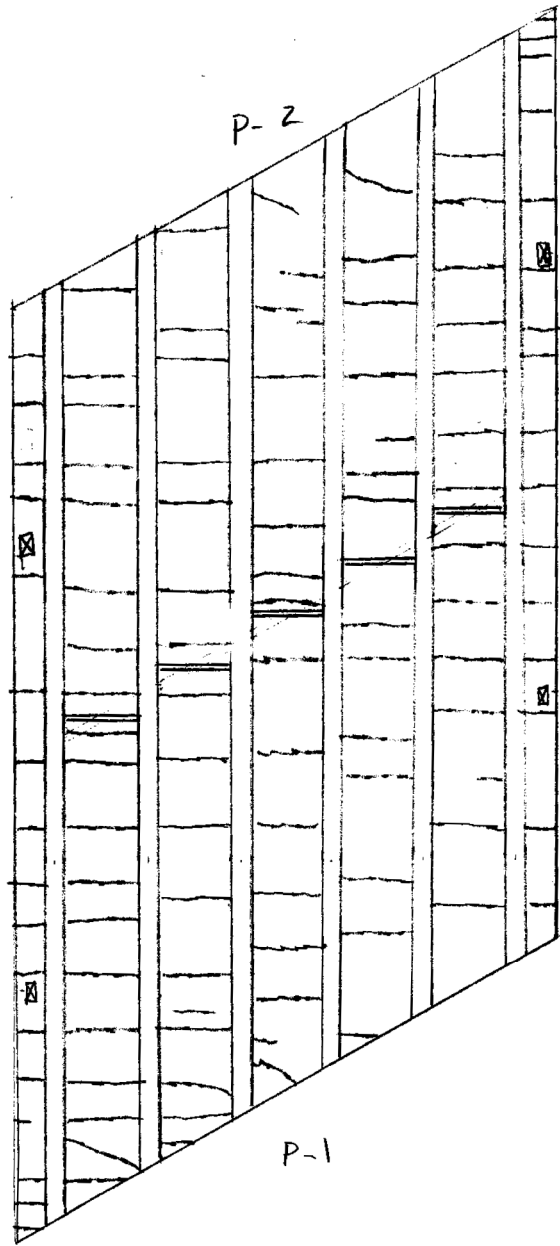
Bottom of Deck Inspection Sketches
(For Information Only)

Note:
Total estimated crack length on bottom of deck based on the 2023 inspection sketches is 1080 L.F.
This measurement is provided for information only.

Design For Repair To 30 Degree Skew RA
213'-10" x 40'-0" Prestressed
Prestressed Concrete Beam Bridge
68'-3" End Spans 77'-4" Interior Span
Inspection Sketches
STA. 285+35.00 (IA 12) Turn-in Date: May 2026
Plymouth County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 427 Design Sheet No. 3 of 4 FHWA No. 40021

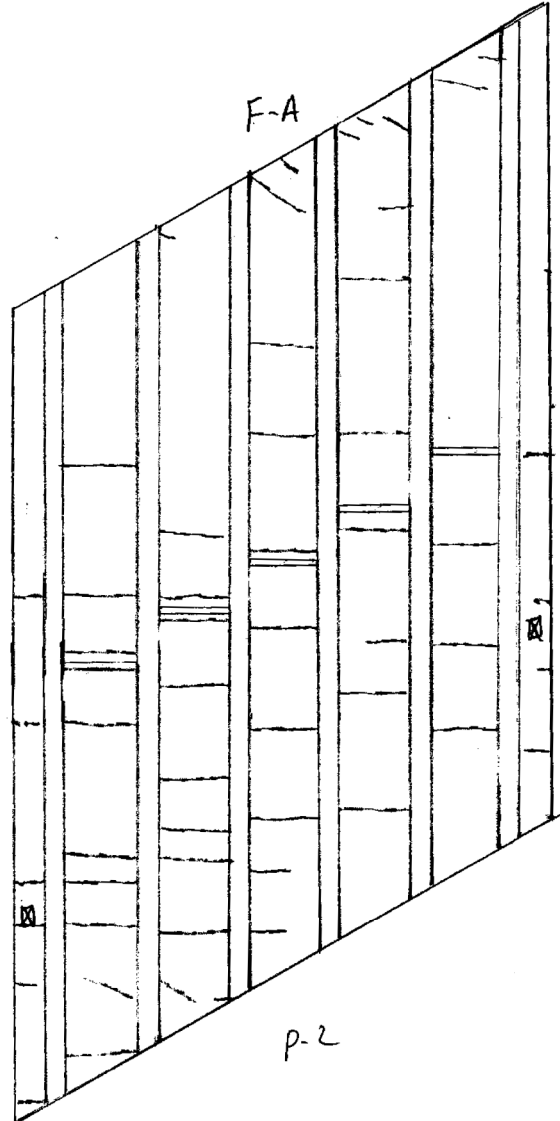
Scale	Bridge No.	Sketch by	Change since last insp.	Date	Page
120	7538.9 ⁵ 012	INEN	INITIAL	5-4-23	B- 13
	Sketch of: Bottom of DECK SPAN 2				B-
					B-

x 528



Scale	Bridge No.	Sketch by	Change since last insp.	Date	Page
120	7538.9 ⁵ 012	INEN	INITIAL	5-4-23	B- 14
	Sketch of: Bottom of DECK SPAN 3				B-
					B-

7 d
15
26



Bottom of Deck Inspection Sketches
(For Information Only)

Design For Repair To 30 Degree Skew RA
**213'-10" x 40'-0" Pretensioned
Prestressed Concrete Beam Bridge**
68'-3" End Spans 77'-4" Interior Span
Inspection Sketches
STA. 285+35.00 (IA 12) Turn-in Date: May 2026
Plymouth County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 427 Design Sheet No. 4 of 4 FHWA No. 40021

Estimate Bridge Repair Quantities and Reference Notes - Design #227					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 227	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	157	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	13,308	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	2446	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 299'-0" x 44'-0" Pretensioned Prestressed Concrete Beam Bridge on IA 175 over Maple River. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site

Des. No.	Type of Work
1530	Original Design
1654A	Bridge Replacement - Continuous I-Beam
121	Bridge Replacement - PPCB
227	Bridge Repair

Design For Repair To 30 Degree Skew LA

299'-0" x 44'-0" Pretensioned Prestressed Concrete Beam Bridge

86'-0" End Spans127'-0" Interior Span

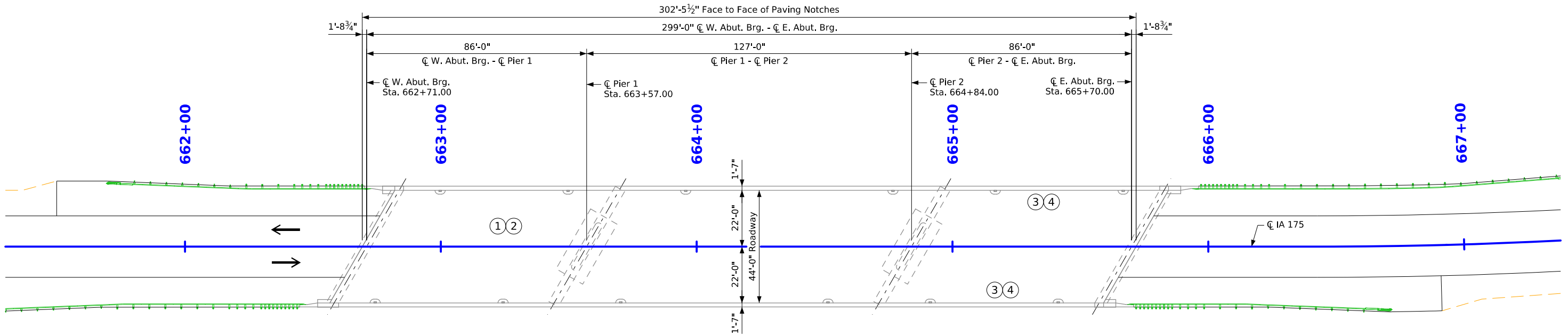
General Notes & Quantities

STA. 664+20.50 (IA 175)Turn-in Date: May 2026

Monona County

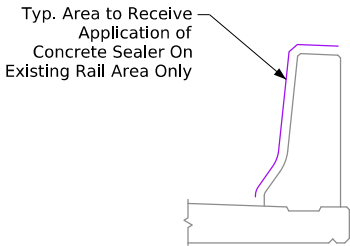
IOWA DEPARTMENT OF TRANSPORTATION

Design No. 227Design Sheet No. 1 of 5FHWA No. 37081



Repairs Shall Consist of:

- ① Clean and prepare existing bridge deck.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge deck.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	970 V.P.D.
2042 AADT	1500 V.P.D.
TRUCKS	14 %

Location

IA 175 over Maple River
T-85N R-43W
Section 23
Maple Township
Monona County
FHWA No. 37081
Bridge Maint. No. 6727.6S175
Latitude 42.156900°
Longitude -95.809745°

Design For Repair To 30 Degree Skew LA

299'-0" x 44'-0" Prestensioned
Prestressed Concrete Beam Bridge

86'-0" End Spans 127'-0" Interior Span

Situation Plan

STA. 664+20.50 (IA 175) Turn-in Date: May 2026

Monona County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 227 Design Sheet No. 2 of 5 FHWA No. 37081

Scale	Bridge No. 6727.6 ^S 175 (37081)	Sketch by	Date	Page
	Sketch of: Legends			B-1

NOTE: Cracks Are Hairline
Unless Otherwise Noted

-Scale

L- light
 M- moderate
 S- severe

-Hollow

-Spall

-P.C. Patch

-A.C. Patch

-Injected Epoxy

-Leaching

-Staining

-Pattern Cracking

-Map Cracking

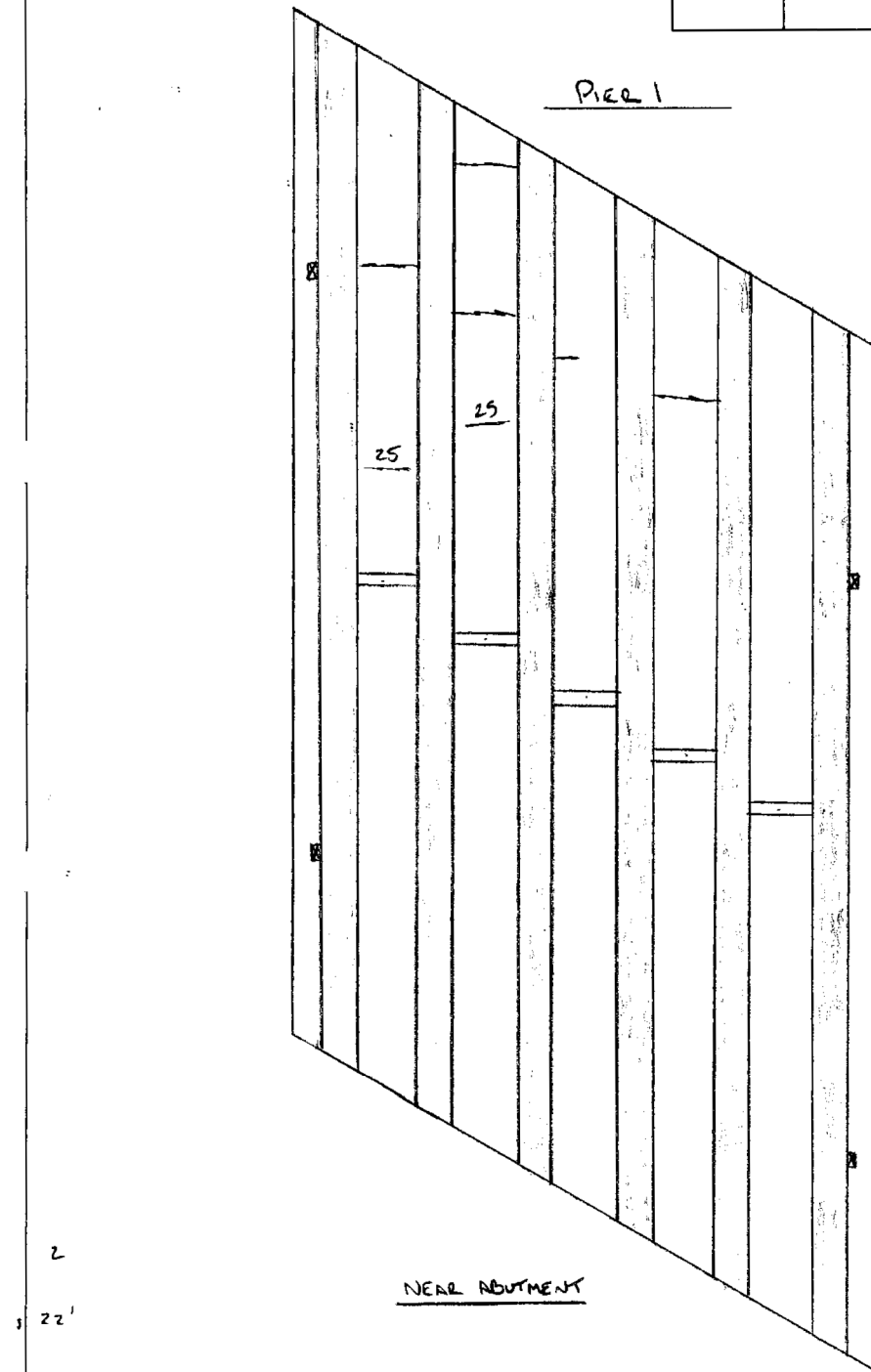
-Random Cracking

- Stalactites

-Exposed Reinforcing

x - Bearing location

Scale	Bridge No. 6727.6 ^S 175	Sketch by	Change since last insp.	Date	Page
120	Sketch of: BOTTOM OF DECK - SPAN 1	INEN INEN	INITIAL LEACHING	2-1-23 2-3-25	B- 12
					B-
					B-

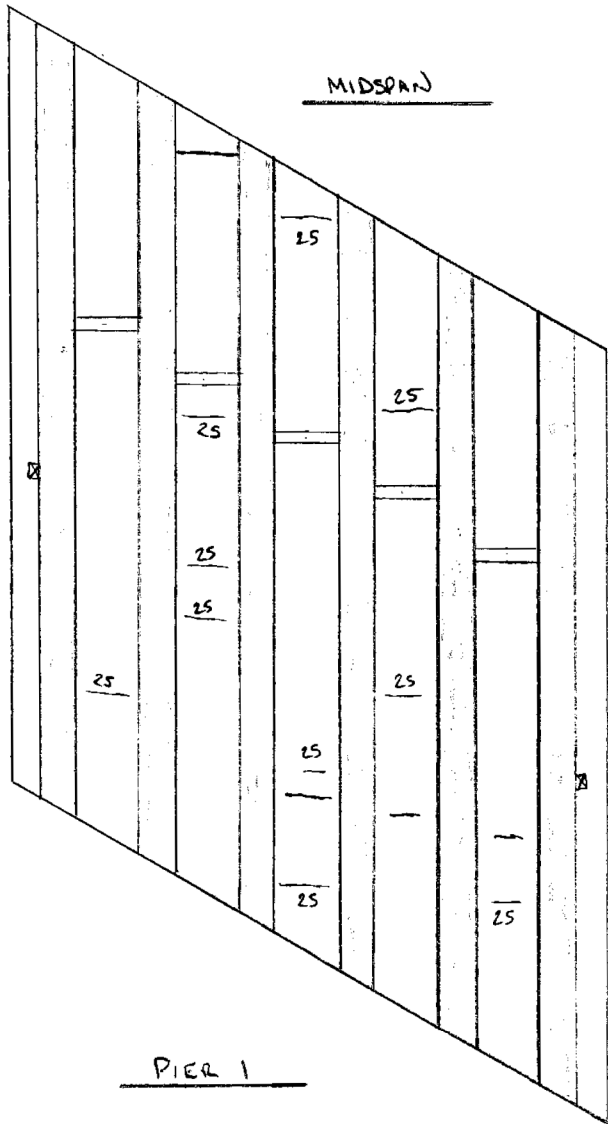


Bottom of Deck Inspection Sketches (For Information Only)

Note:
Total estimated crack length on bottom of deck based on the 2025 inspection sketches is 154.1 L.F. This measurement is provided for information only.

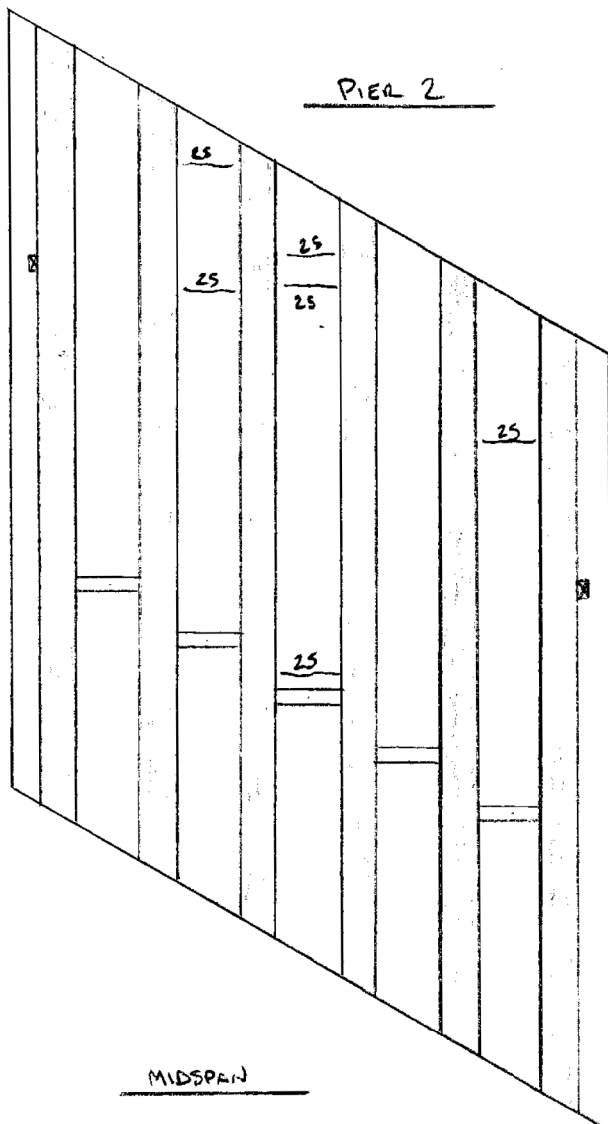
Design For Repair To 30 Degree Skew LA
 299'-0" x 44'-0" Prestensioned
 Prestressed Concrete Beam Bridge
 86'-0" End Spans 127'-0" Interior Span
 Inspection Sketches
 STA. 664+20.50 (IA 175) Turn-In Date: May 2026
 Monona County
 IOWA DEPARTMENT OF TRANSPORTATION
 Design No. 227 Design Sheet No. 3 of 5 FHWA No. 37081

Scale	Bridge No. 6727.6 ^s 175	Sketch by	Change since last insp.	Date	Page
120	Sketch of: BOTTOM OF DECK - SPAN 2	IWEN IWEN	INITIAL LEACHING	2-1-23 2-3-25	B- 13
					B-
					B-



2
65'

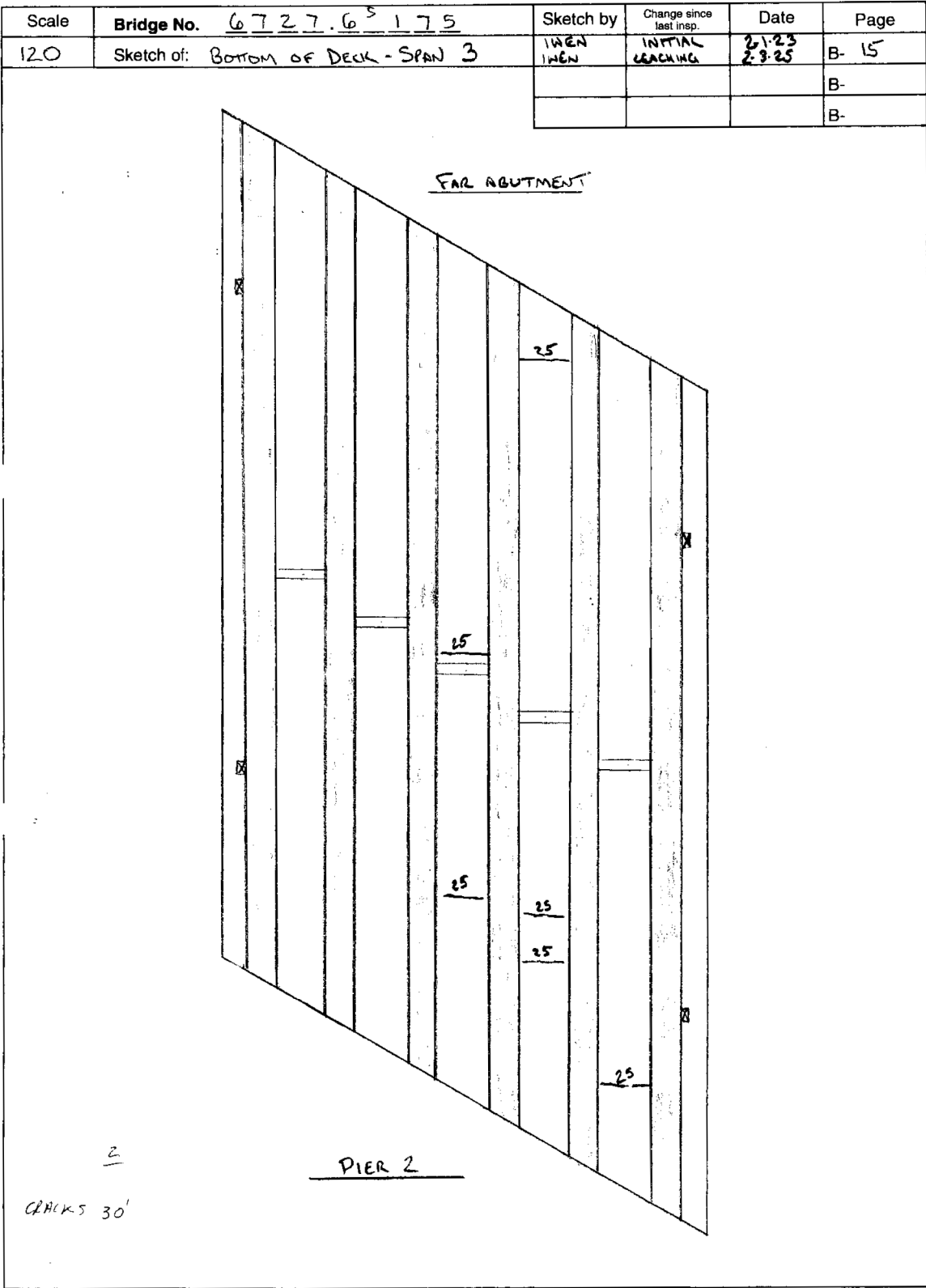
Scale	Bridge No. 6727.6 ^s 175	Sketch by	Change since last insp.	Date	Page
120	Sketch of: BOTTOM OF DECK - SPAN 2	IWEN IWEN	INITIAL LEACHING	2-1-23 2-3-25	B- 14
					B-
					B-



2
CRACKS 25'

Bottom of Deck Inspection Sketches
(For Information Only)

Design For Repair To 30 Degree Skew LA
299'-0" x 44'-0" Pretensioned
Prestressed Concrete Beam Bridge
86'-0" End Spans 127'-0" Interior Span
Inspection Sketches
STA. 664+20.50 (IA 175) Turn-in Date: May 2026
Monona County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 227 Design Sheet No. 4 of 5 FHWA No. 37081



Bottom of Deck Inspection Sketch
(For Information Only)

Design For Repair To 30 Degree Skew LA

299'-0" x 44'-0" Pretensioned
Prestressed Concrete Beam Bridge

86'-0" End Spans 127'-0" Interior Span

Inspection Sketches

STA. 664+20.50 (IA 175) Turn-in Date: May 2026

Monona County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 227 Design Sheet No. 5 of 5 FHWA No. 37081

Estimate Bridge Repair Quantities and Reference Notes - Design #527					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 527	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	255	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	21,703	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	3552	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 306'-0" x Varies Continuous Welded Girder Bridge on E.B. US 6 over 40th St. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
1720	Original Design
---	Bridge Painting (2024)
527	Bridge Repair

Design For Repair To Variable Degree Skew LA

306'-0" x Varies Continuous Welded Girder Bridge

153'-0" End Spans

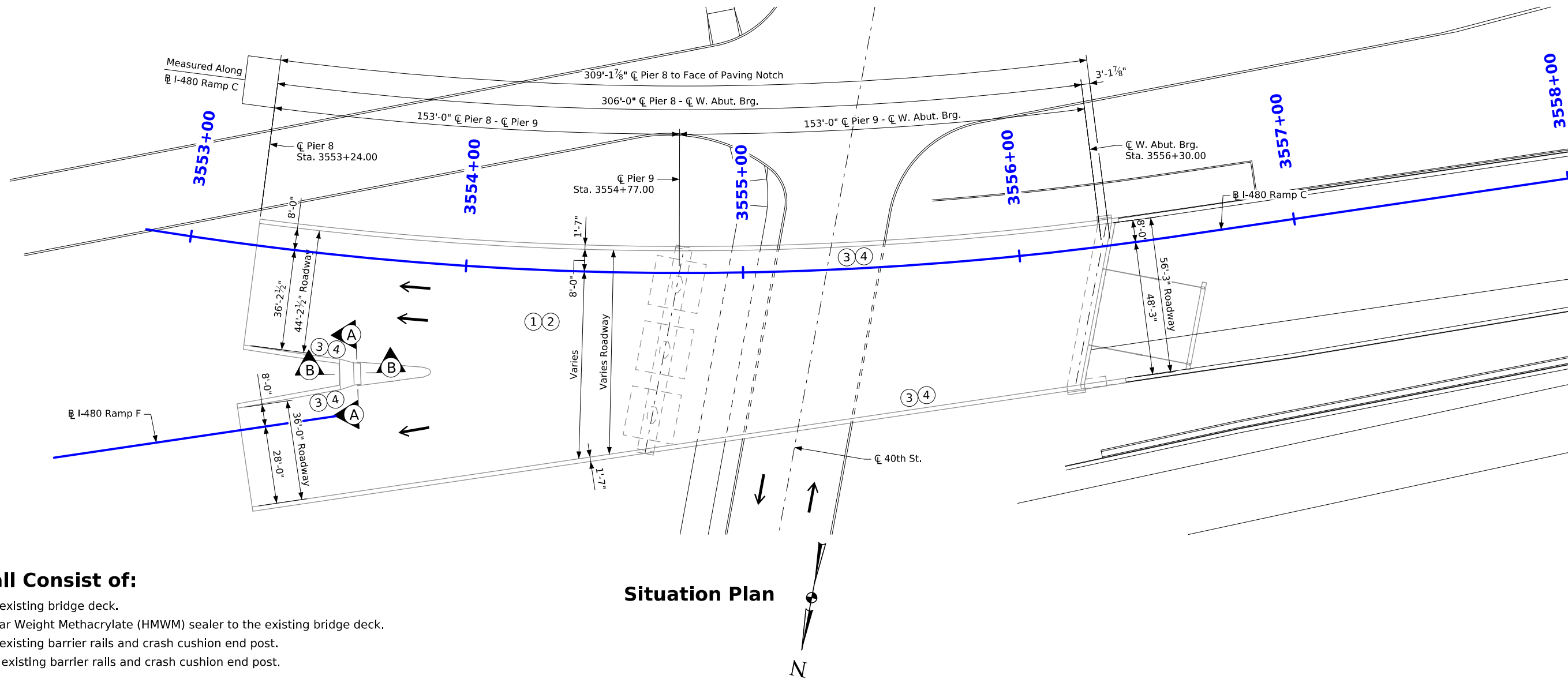
General Notes & Quantities

STA. 3554+77.00 (@ I-480 Ramp C) Turn-in Date: May 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

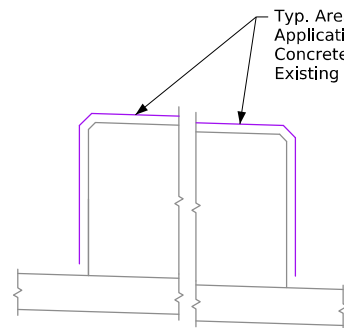
Design No. 527 Design Sheet No. 1 of 4 FHWA No. 700965



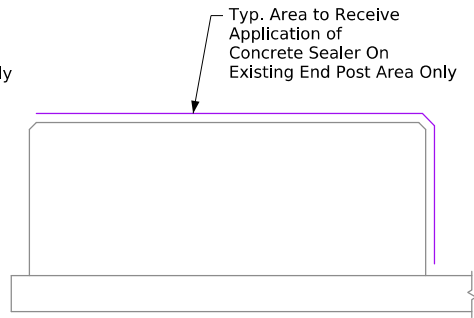
Situation Plan



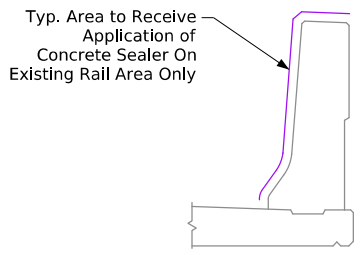
- Repairs Shall Consist of:**
- ① Clean and prepare existing bridge deck.
 - ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge deck.
 - ③ Clean and prepare existing barrier rails and crash cushion end post.
 - ④ Apply sealer to the existing barrier rails and crash cushion end post.



Section A-A



Section B-B



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	19,990	V.P.D.
2040 AADT	15,900	V.P.D.
2040 DHV	2200	V.P.H.
TRUCKS	9	%

Location

I-480 E.B. Connector
(E.B. US 6) to I-480 Ramp C
& I-480 Ramp F over 40th St.
T-75N R-44W
Section 28
Kane Township
Pottawattamie County
FHWA No. 700965
Bridge Maint. No. 7800.45006
Latitude 41.261388°
Longitude -95.912442°

Design For Repair To Variable Degree Skew LA

306'-0" x Varies Continuous
Welded Girder Bridge

153'-0" End Spans

Situation Plan

STA. 3554+77.00 (I-480 Ramp C)

Turn-in Date: May 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

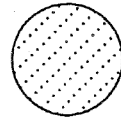
Design No. 527

Design Sheet No. 2 of 4

FHWA No. 700965


LEGEND

NOTE: Cracks Are Hairline Unless Otherwise Noted

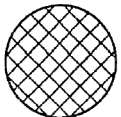


- Scale

L - Light (up to 1/4")
M - Moderate (1/4" to 1/2")
H - Heavy (1/2" to 1")
S - Severe (over 1")



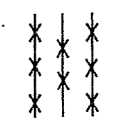
- AC Patch




- Spall

I.E.

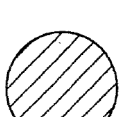
- Areas Injected With Epoxy




- Exposed Reinforcing




- Leaching




-Delaminated Concrete



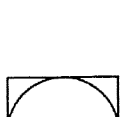
- Stalactite




- PC Patch



- Map Cracking

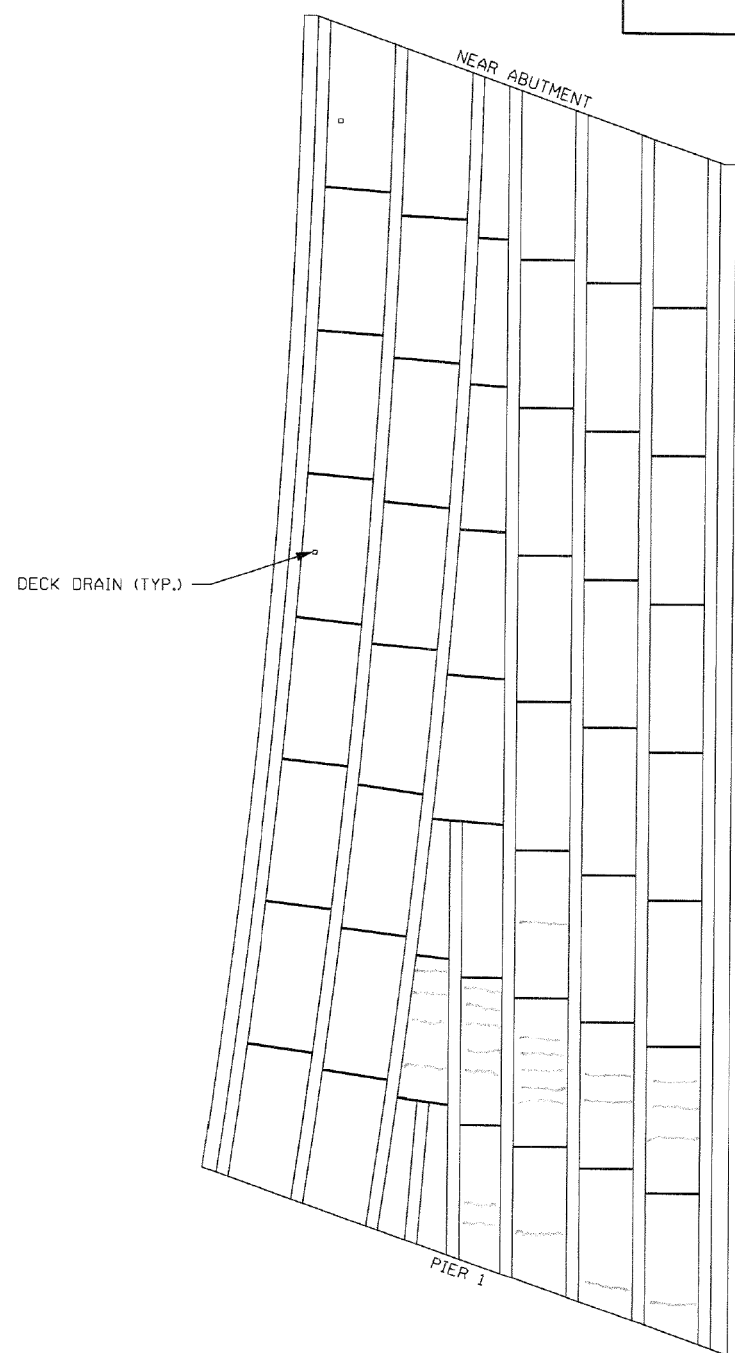


- Retrofitted Fatigue Crack



Ground Line Measured From Bridge Seat Unless Noted

SCALE	BRIDGE NO.	7800.45006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
200	SKETCH OF:	BOTTOM OF DECK SPAN 1	PROSS	INITIAL	8-29-23	B-10
			DK	MISS	8-13-25	



Bottom of Deck Inspection Sketches
(For Information Only)

Note:
Total estimated crack length on bottom of deck based on the 2025 inspection sketches is 260.8 L.F. This measurement is provided for information only.

Design For Repair To Variable Degree Skew LA
306'-0" x Varies Continuous
Welded Girder Bridge
153'-0" End Spans
Inspection Sketches
STA. 3554+77.00 (@ I-480 Ramp C) Turn-In Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 527 Design Sheet No. 3 of 4 FHWA No. 700965

FILE NO. 32890

ENGLISH

DESIGN TEAM Foth

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4/14/2026

JAE

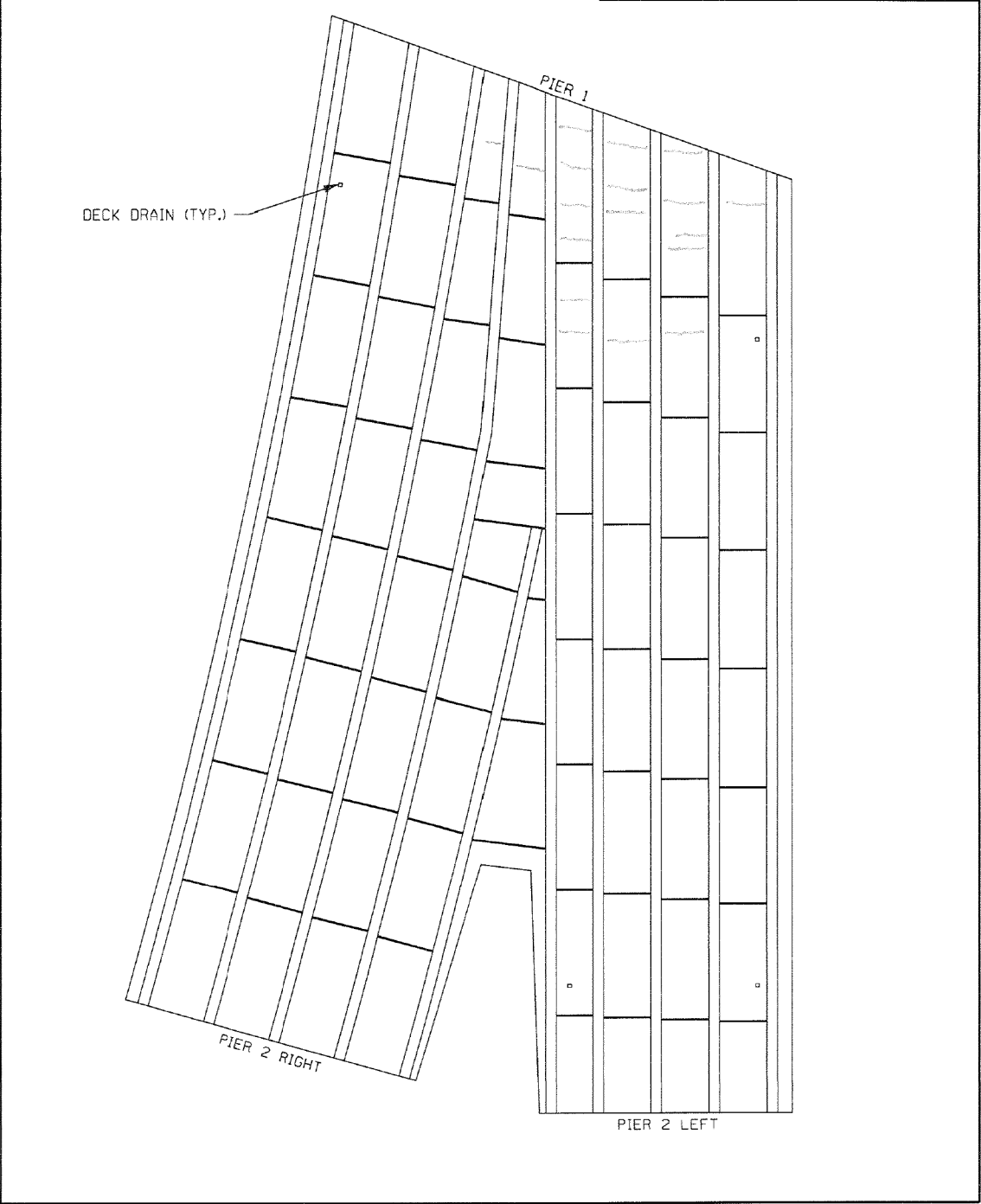
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Pottawattamie COUNTY

PROJECT NUMBER BRFN-000-T(461)--39-00

SHEET NUMBER V.12

SCALE	BRIDGE NO.	7800.45006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
200	SKETCH OF:	BOTTOM OF DECK SPAN 2	Prosi	INITIAL	8-29-23	B-11
			DK	minor	8-13-25	



Bottom of Deck Inspection Sketch
(For Information Only)

Design For Repair To Variable Degree Skew LA

306'-0" x Varies Continuous
Welded Girder Bridge

153'-0" End Spans

Inspection Sketches

STA. 3554+77.00 (@ I-480 Ramp C) Turn-In Date: May 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 527 Design Sheet No. 4 of 4 FHWA No. 700965

Estimate Bridge Repair Quantities and Reference Notes - Design #627					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 627	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	697	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	59,272	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	13,216	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 1419'-0" x Varies Continuous Welded Girder Bridge on E.B. US 6 over Frontage Rd. and 2nd Ave. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

The road will be closed to traffic during construction. See Traffic Control Plan note on this sheet.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be closed to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
1320	Original Design
---	Bridge Painting (2024)
627	Bridge Repair

Design For Repair To 0 Degree Skew

1419'-0" x Varies Continuous Welded Girder Bridge

165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans

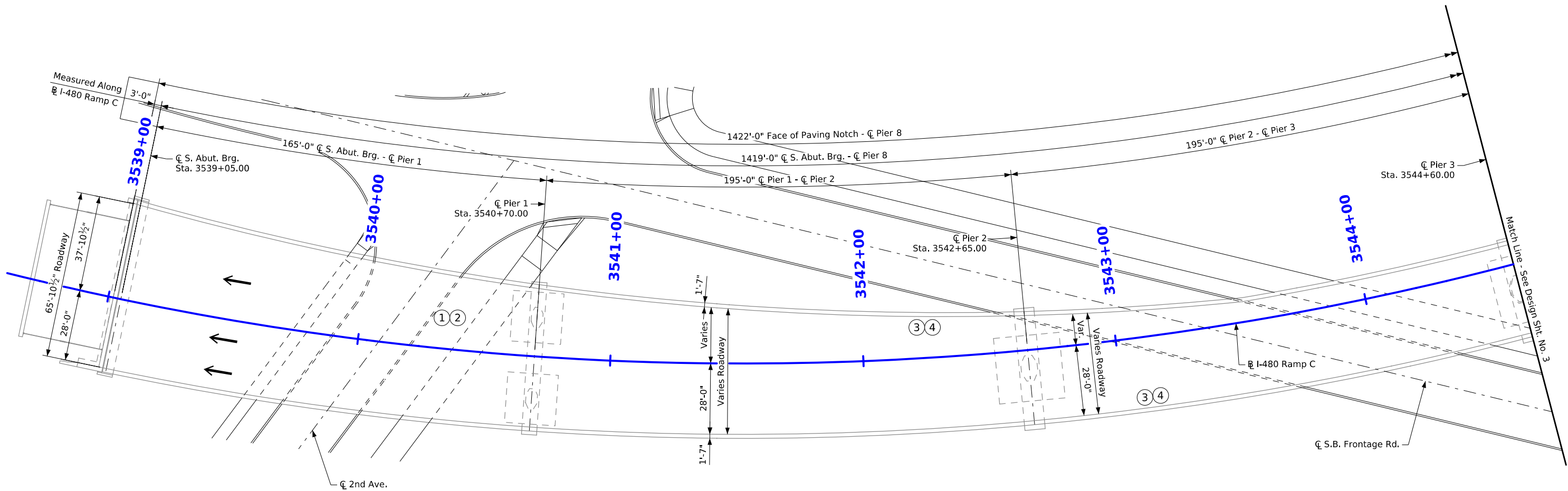
General Notes & Quantities

STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026

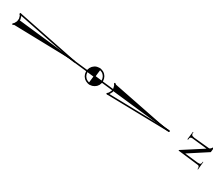
Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627 Design Sheet No. 1 of 11 FHWA No. 700970

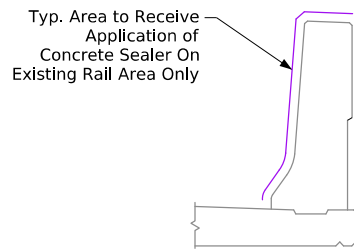


Situation Plan



Repairs Shall Consist of:

- ① Clean and prepare existing bridge deck.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge deck.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	15,900	V.P.D.	
2040 AADT	12,000	V.P.D.	
2040 DHV	1630	V.P.H.	
TRUCKS	9	%	

Location

W-S Connector I-480 to
I-29 (E.B. US 6) over 2nd Ave.,
S.B. Frontage Rd. &
E.B. W. Broadway (I-480 Ramp C)
T-75N R-44W
Kane Township
Pottawattamie County
FHWA No. 700970
Bridge Maint. No. 7800.55006
Latitude 41.260968°
Longitude -95.909422°

Design For Repair To 0 Degree Skew

1419'-0" x Varies Continuous Welded Girder Bridge

165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans

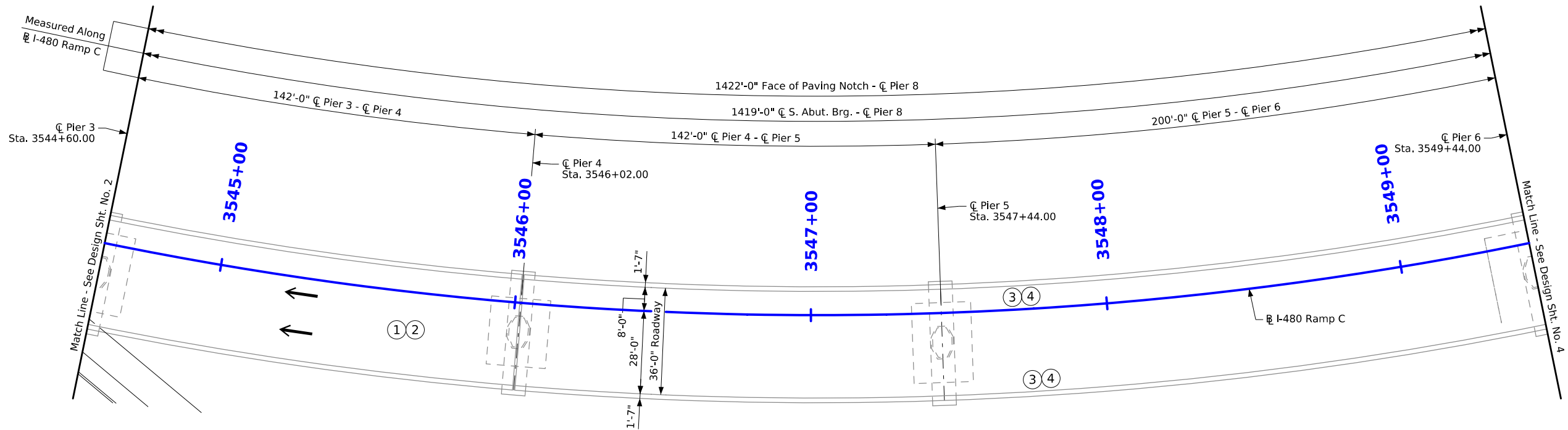
Situation Plan

STA. 3546+14.50 (I-480 Ramp C) Turn-in Date: May 2026

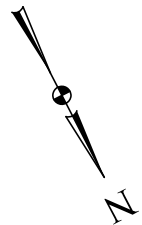
Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627 Design Sheet No. 2 of 11 FHWA No. 700970



Situation Plan



Repairs Shall Consist of:

- ① Clean and prepare existing bridge deck.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge deck.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.

Design For Repair To 0 Degree Skew

1419'-0" x Varies Continuous
Welded Girder Bridge

165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans

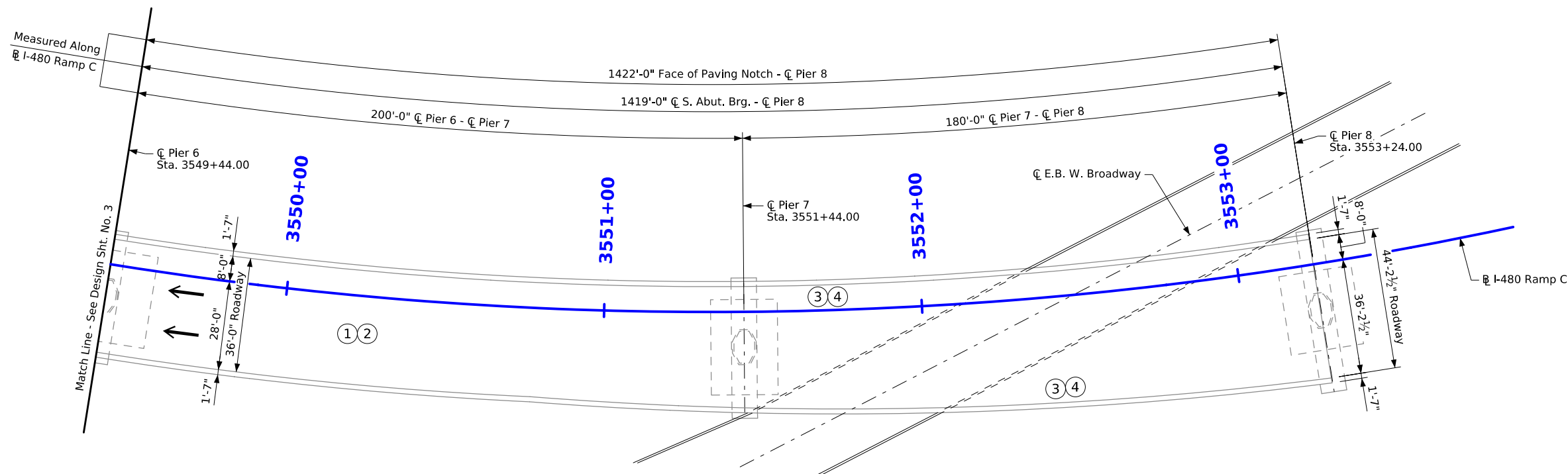
Situation Plan

STA. 3546+14.50 (I-480 Ramp C) Turn-in Date: May 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627 Design Sheet No. 3 of 11 FHWA No. 700970



Situation Plan



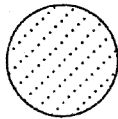
Repairs Shall Consist of:

- ① Clean and prepare existing bridge deck.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge deck.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.

Design For Repair To 0 Degree Skew
**1419'-0" x Varies Continuous
Welded Girder Bridge**
165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans
Situation Plan
STA. 3546+14.50 (I-480 Ramp C) Turn-in Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 4 of 11 FHWA No. 700970


LEGEND

NOTE: Cracks Are Hairline Unless Otherwise Noted

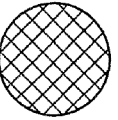


- Scale

L - Light (up to 1/4")
M - Moderate (1/4" to 1/2")
H - Heavy (1/2" to 1")
S - Severe (over 1")



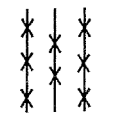
- AC Patch



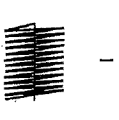
- Spall

I.E.

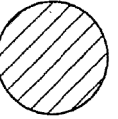
- Areas Injected With Epoxy



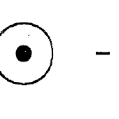
- Exposed Reinforcing




- Leaching



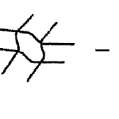
-Delaminated Concrete



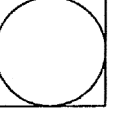
- Stalactite




- PC Patch



- Map Cracking

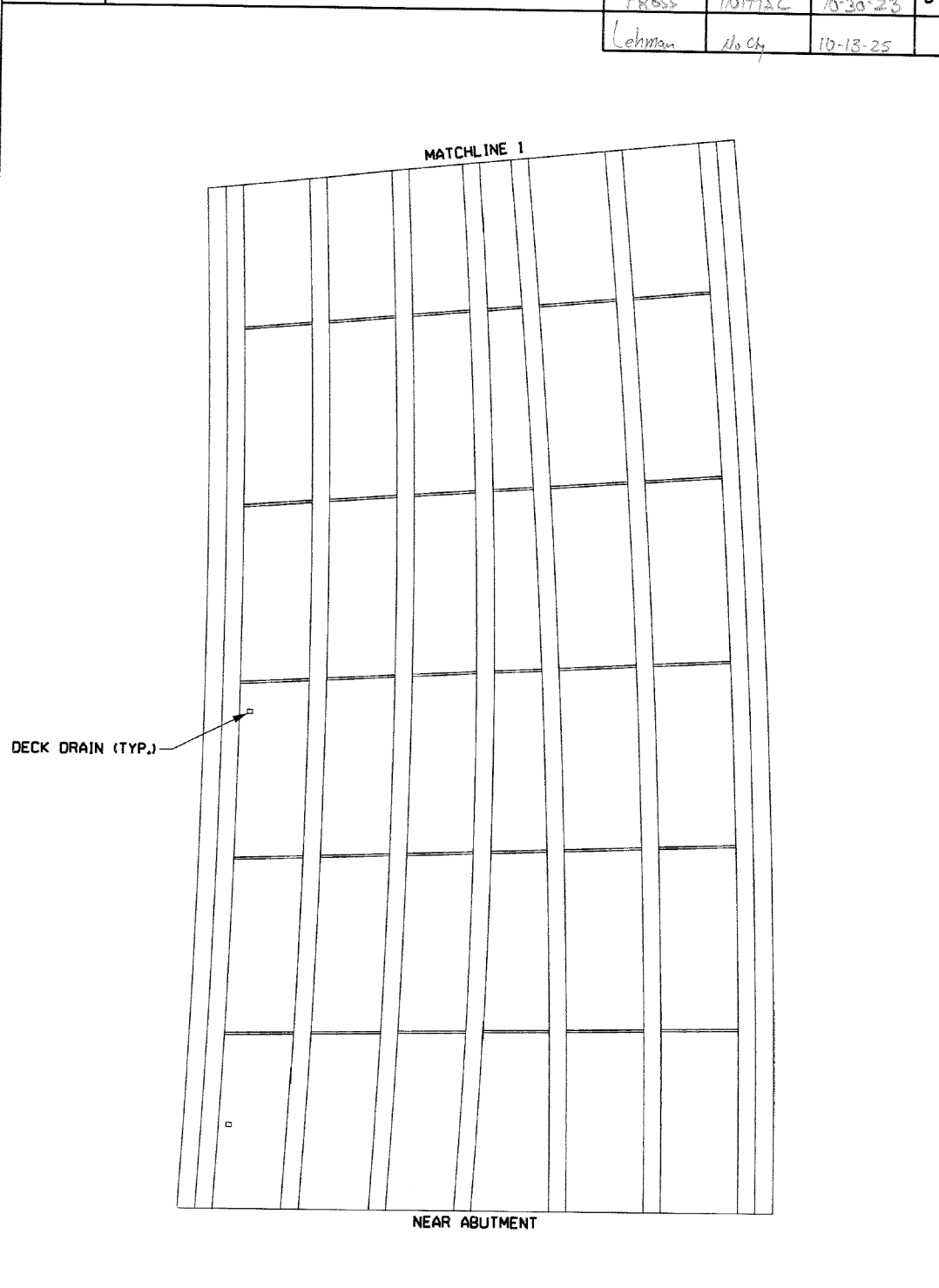


- Retrofitted Fatigue Crack



Ground Line Measured From Bridge Seat Unless Noted

SCALE	BRIDGE NO.	7800.55006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
150	SKETCH OF:	BOTTOM OF DECK, SPAN 1	PROSS Lehman	INITIAL No Ch	10-30-23 10-13-25	B-25



Bottom of Deck Inspection Sketches
(For Information Only)

Note:
Total estimated crack length on bottom of deck based on the 2025 inspection sketches is 42.0 L.F.
This measurement is provided for information only.

Design For Repair To 0 Degree Skew

1419'-0" x Varies Continuous Welded Girder Bridge

165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans

Inspection Sketches

STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627 Design Sheet No. 5 of 11 FHWA No. 700970

FILE NO. 32890

ENGLISH

DESIGN TEAM Foth

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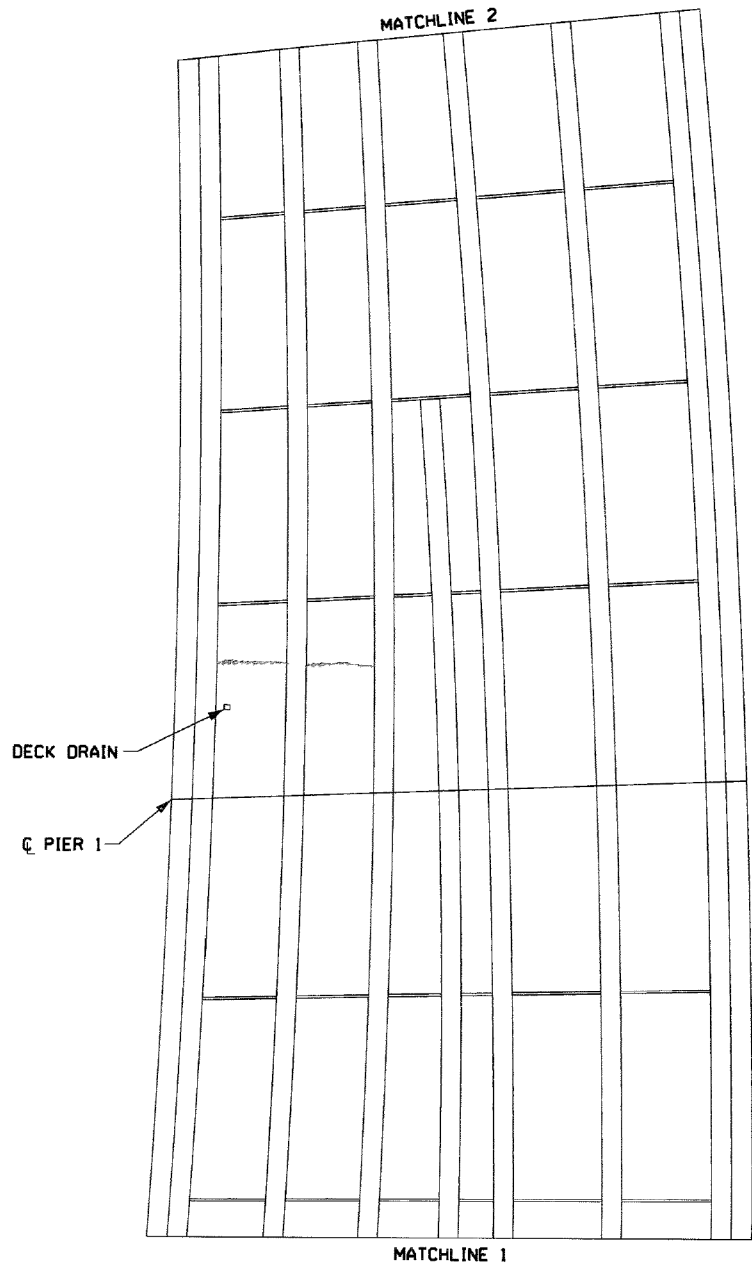
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Pottawattamie COUNTY

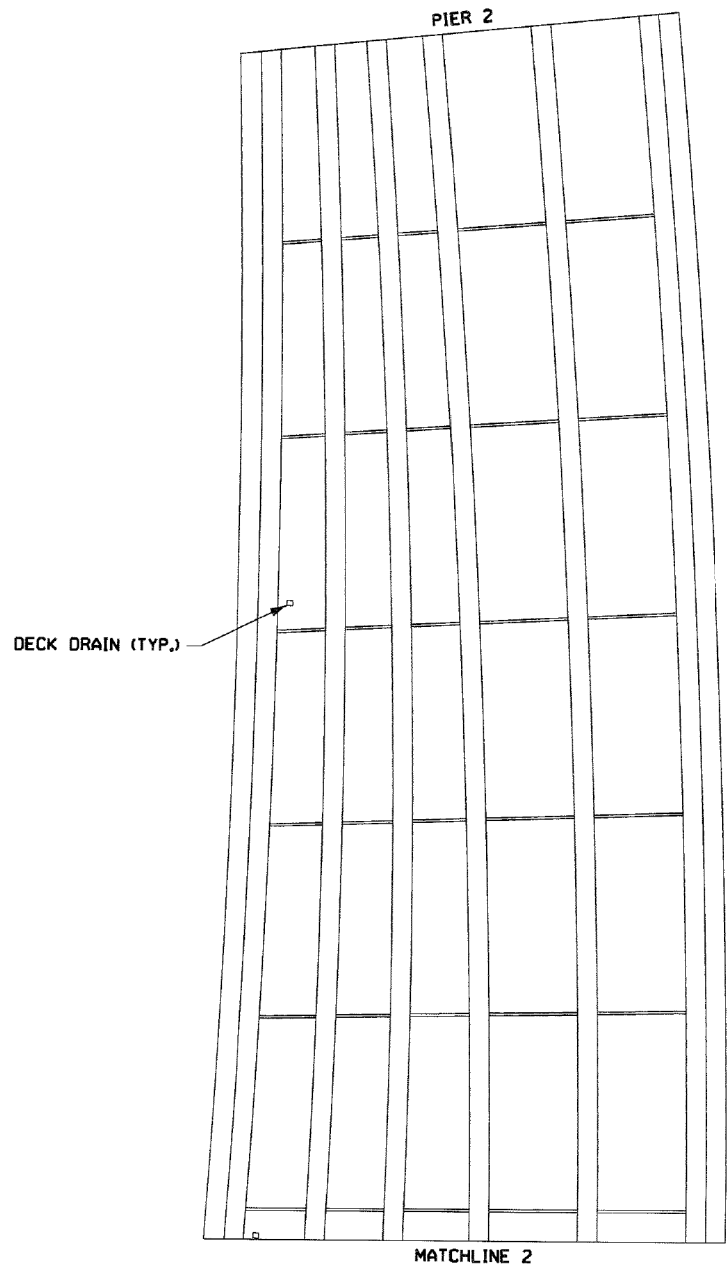
PROJECT NUMBER BRFN-000-T(461)--39-00

SHEET NUMBER V.18

SCALE	BRIDGE NO.	7800.5S006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
150	SKETCH OF:	BOTTOM OF DECK, SPAN 1 AND 2	PROSS	INITIAL	10-30-23	B-26
			Lehman	Minor	10-13-25	

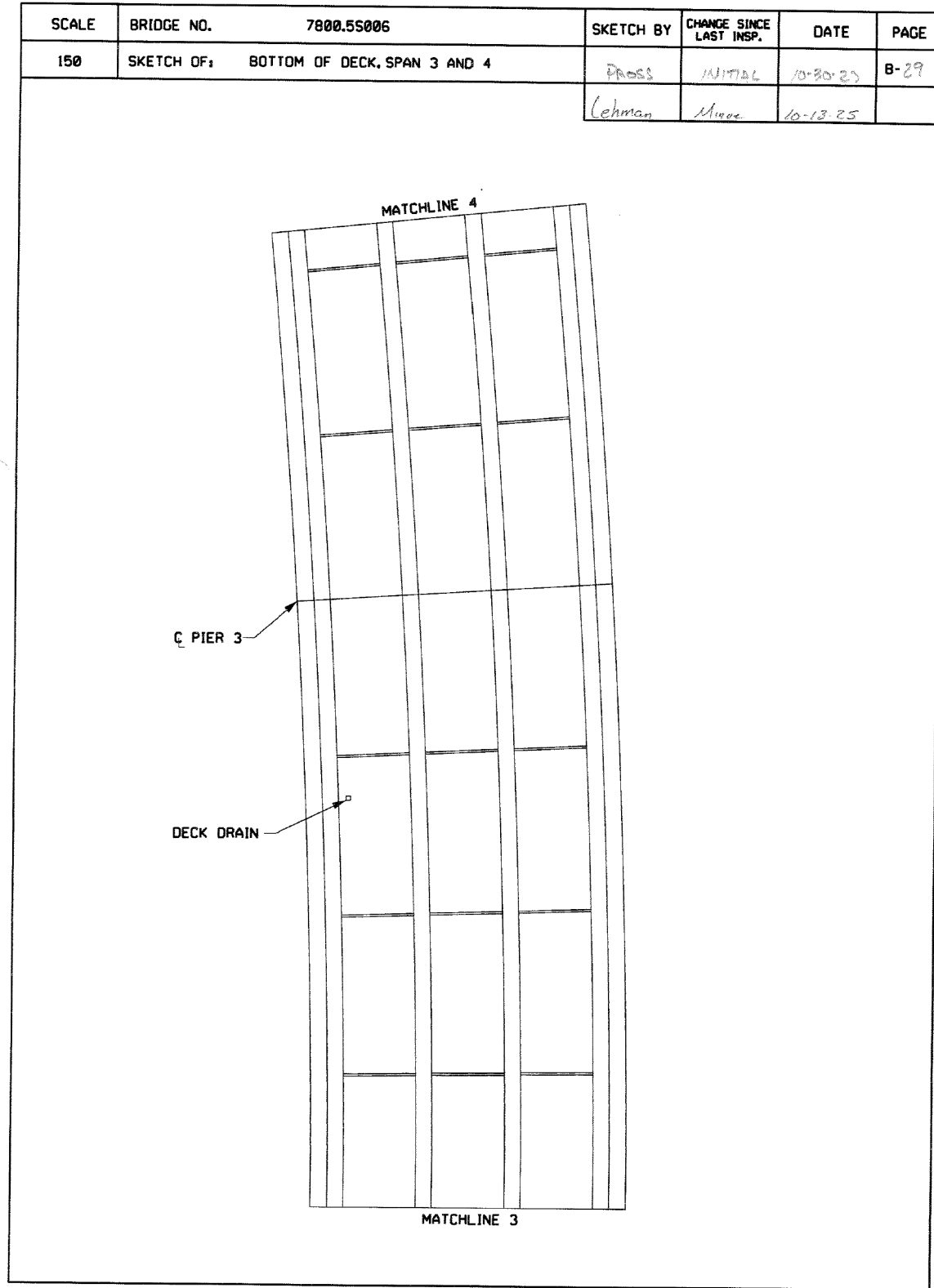
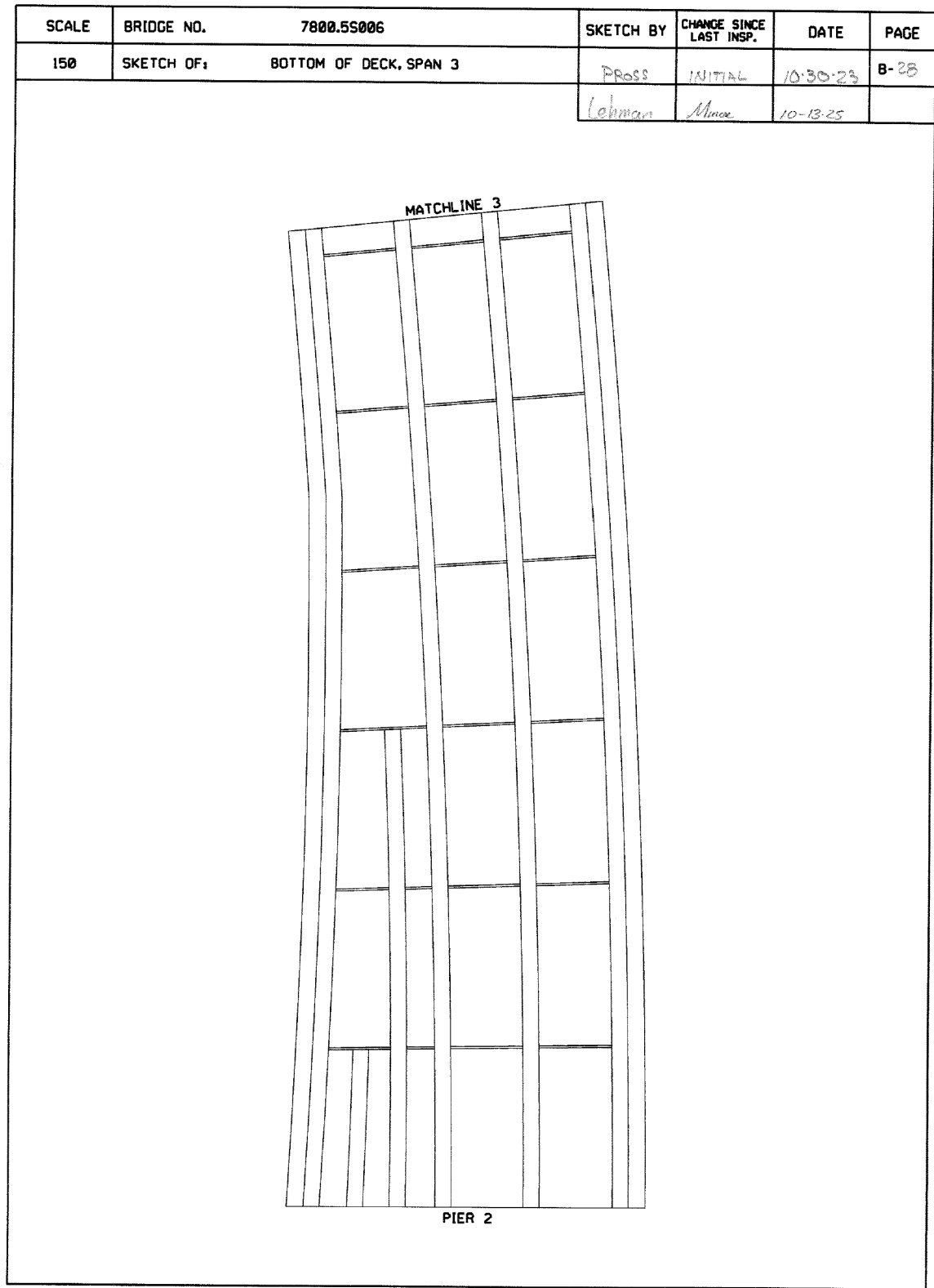


SCALE	BRIDGE NO.	7800.5S006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
150	SKETCH OF:	BOTTOM OF DECK, SPAN 2	PROSS	INITIAL	10-30-23	B-27
			Lehman	Minor	10-13-25	



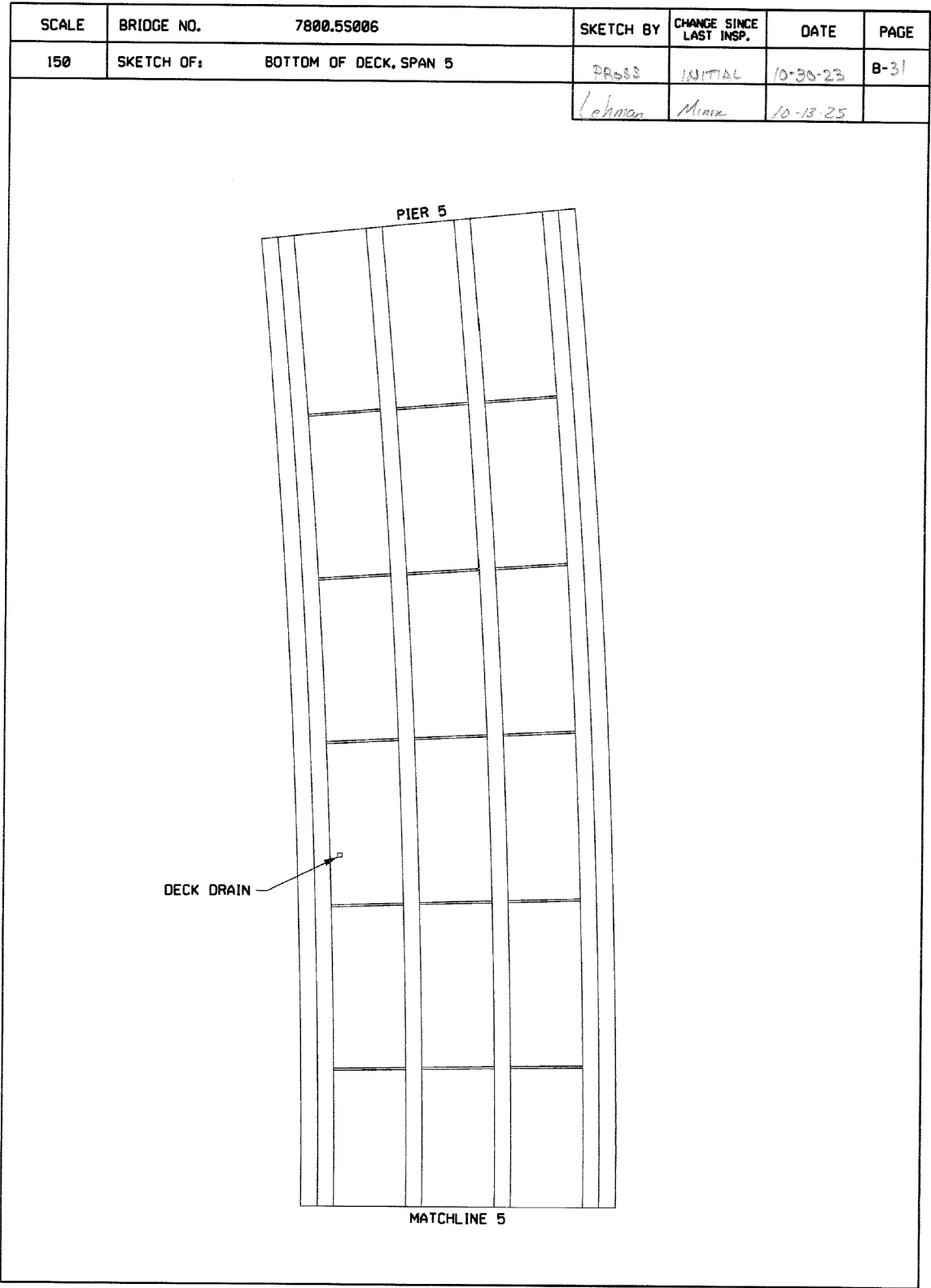
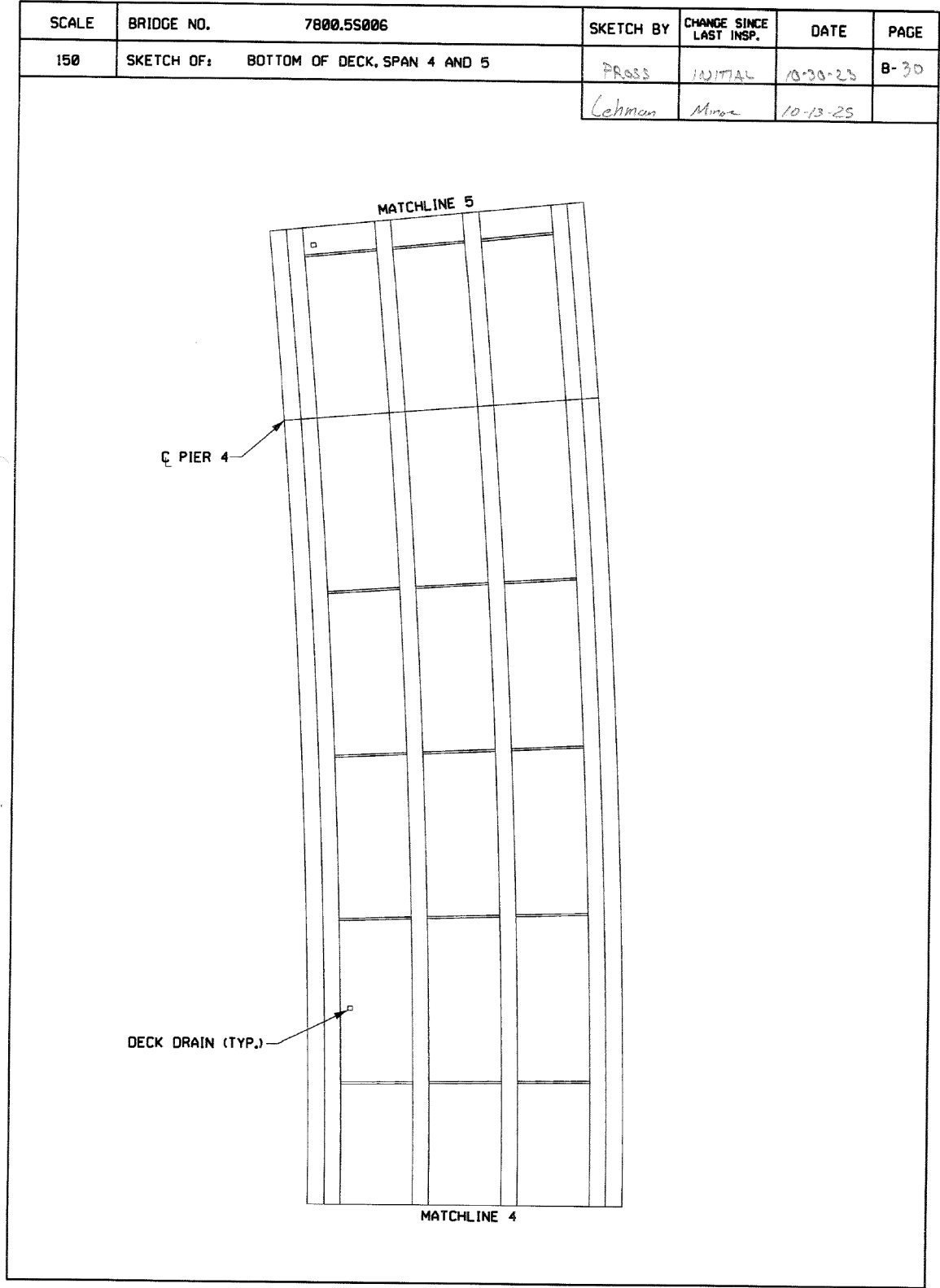
Bottom of Deck Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew
1419'-0" x Varies Continuous
Welded Girder Bridge
165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans
Inspection Sketches
STA. 3546+14.50 (@ I-480 Ramp C) Turn-In Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 6 of 11 FHWA No. 700970



Bottom of Deck Inspection Sketches
(For Information Only)

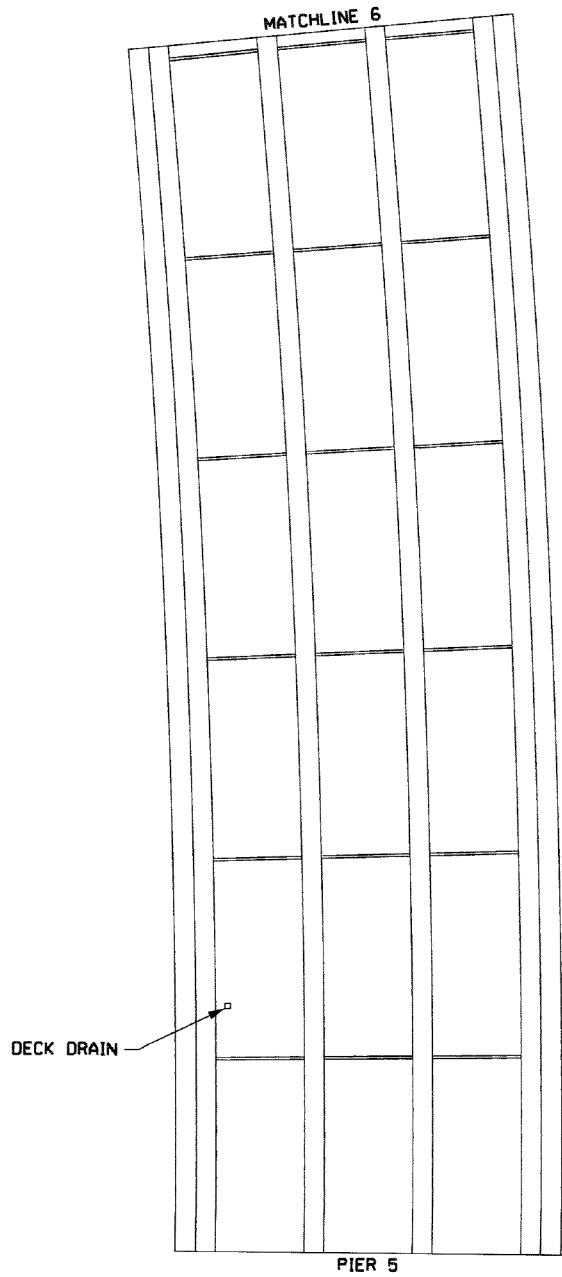
Design For Repair To 0 Degree Skew
**1419'-0" x Varies Continuous
Welded Girder Bridge**
165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans
Inspection Sketches
STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 7 of 11 FHWA No. 700970



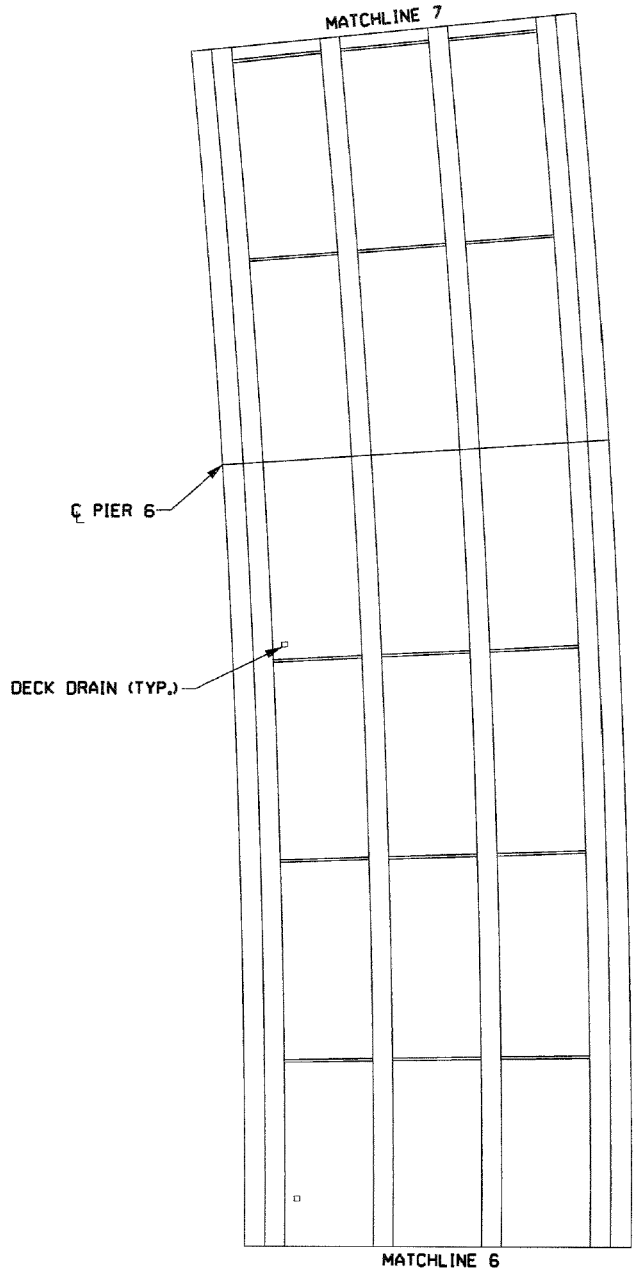
Bottom of Deck Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew
**1419'-0" x Varies Continuous
Welded Girder Bridge**
165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans
Inspection Sketches
STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 8 of 11 FHWA No. 700970

SCALE	BRIDGE NO.	7800.55006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
150	SKETCH OF:	BOTTOM OF DECK, SPAN 6	PROSS	INITIAL	10-30-23	B-32
			Lehman	Mura	10-13-25	

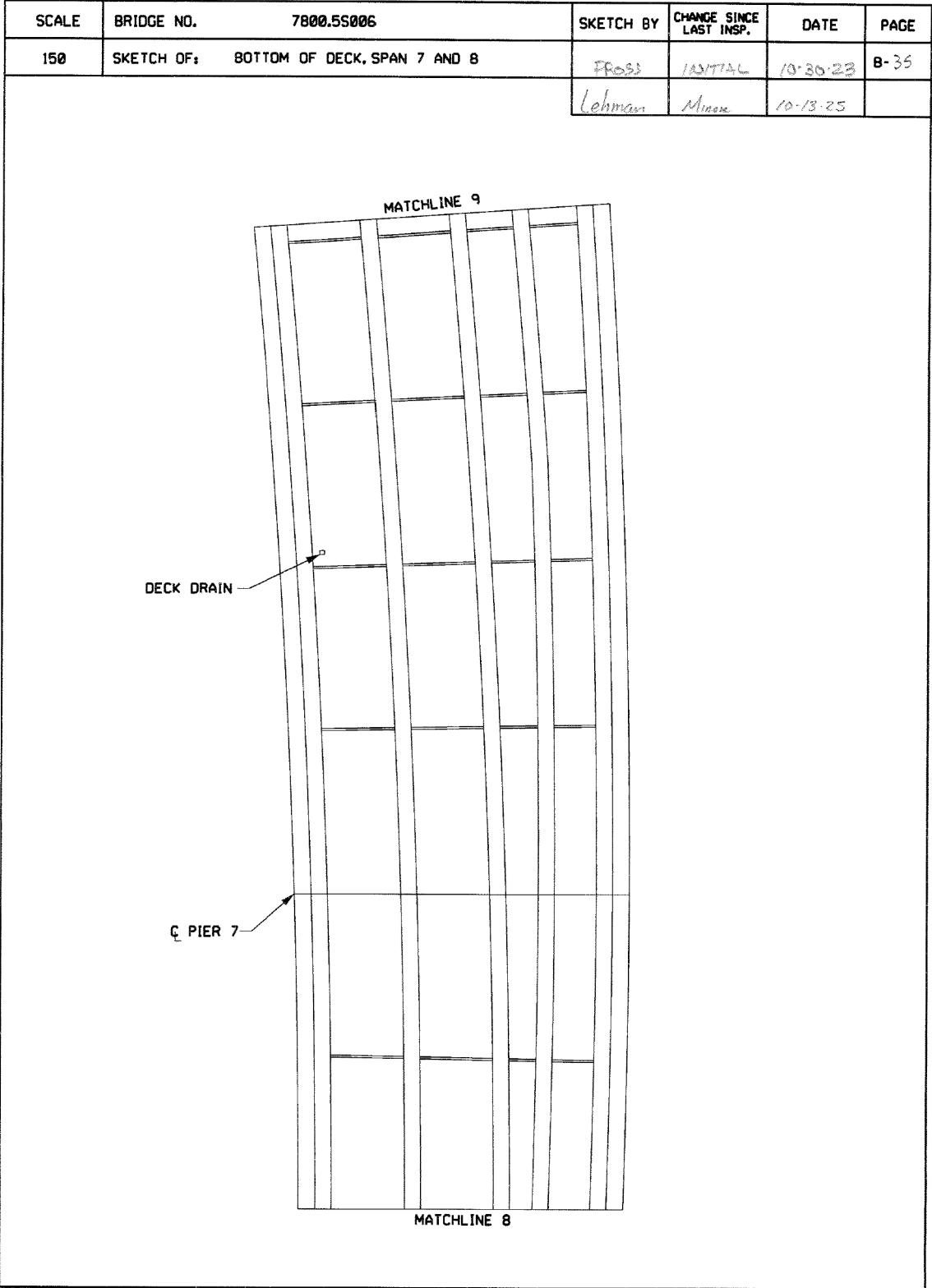
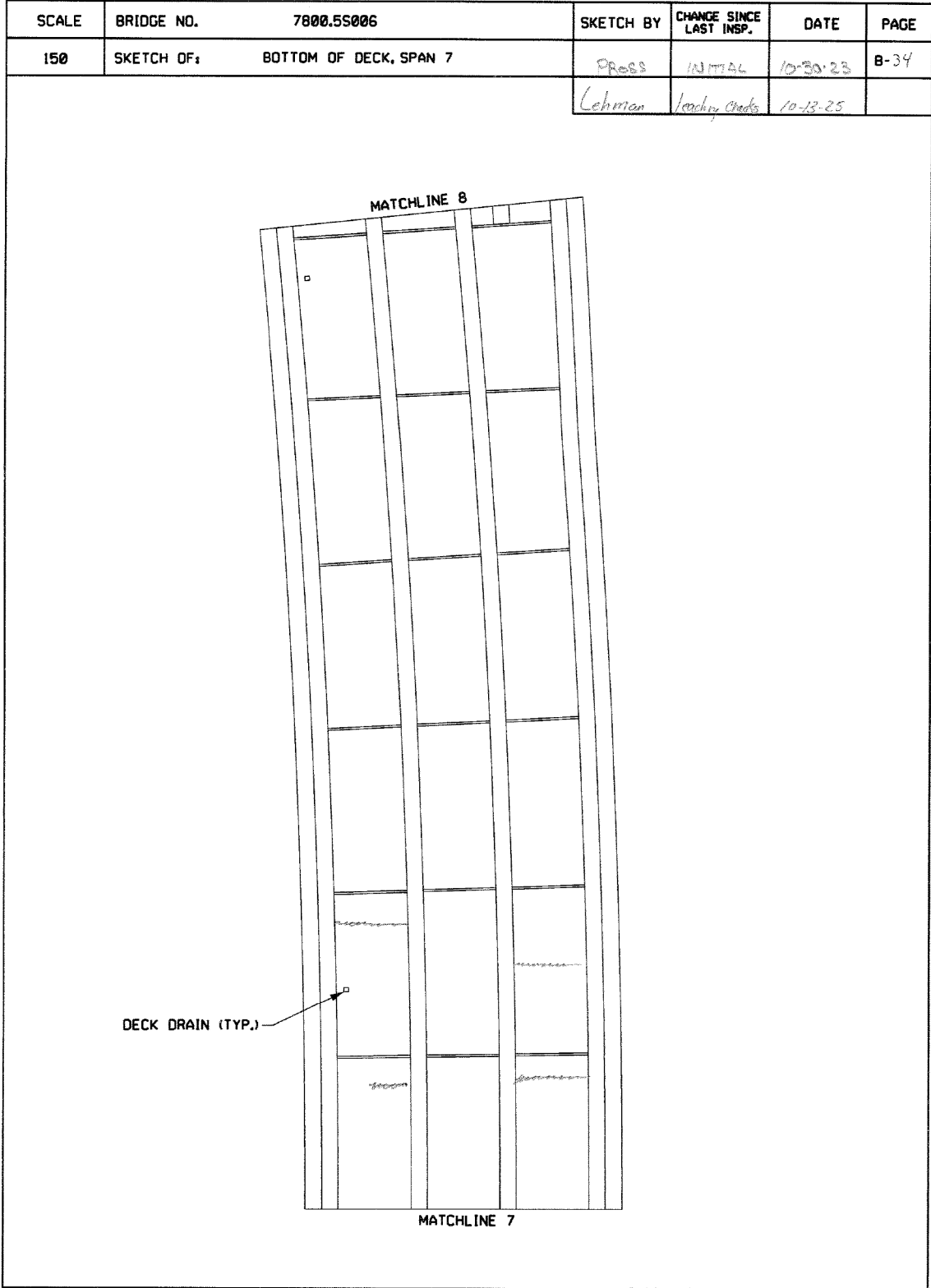


SCALE	BRIDGE NO.	7800.55006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
150	SKETCH OF:	BOTTOM OF DECK, SPAN 6 AND 7	PROSS	INITIAL	10-30-23	B-33
			Lehman	Mura	10-13-25	



Bottom of Deck Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew
1419'-0" x Varies Continuous
Welded Girder Bridge
165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans
Inspection Sketches
STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 9 of 11 FHWA No. 700970



Bottom of Deck Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew
1419'-0" x Varies Continuous Welded Girder Bridge
165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans
Inspection Sketches
STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026
Pottawattamie County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 10 of 11 FHWA No. 700970

SCALE	BRIDGE NO.	7800.5S006	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
150	SKETCH OF:	BOTTOM OF DECK, SPAN 8	PROSS	INITIAL	10-30-23	B-36
			Lehman	Minic	10-13-25	

PIER 8

MATCHLINE 9

Bottom of Deck Inspection Sketch
(For Information Only)

Design For Repair To 0 Degree Skew

1419'-0" x Varies Continuous
Welded Girder Bridge

165'-0", 180'-0" End Spans 195'-0"(2), 142'-0"(2), 200'-0"(2) Interior Spans

Inspection Sketches

STA. 3546+14.50 (@ I-480 Ramp C) Turn-in Date: May 2026

Pottawattamie County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627 Design Sheet No. 11 of 11 FHWA No. 700970

Estimate Bridge Repair Quantities and Reference Notes - Design #427					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 427	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	154	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	13,113	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	2536	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 327'-0" x 40'-0" Continuous Concrete Slab Bridge on E.B. IA 2 over Missouri River Overflow. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
420	Original Design
427	Bridge Repair

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

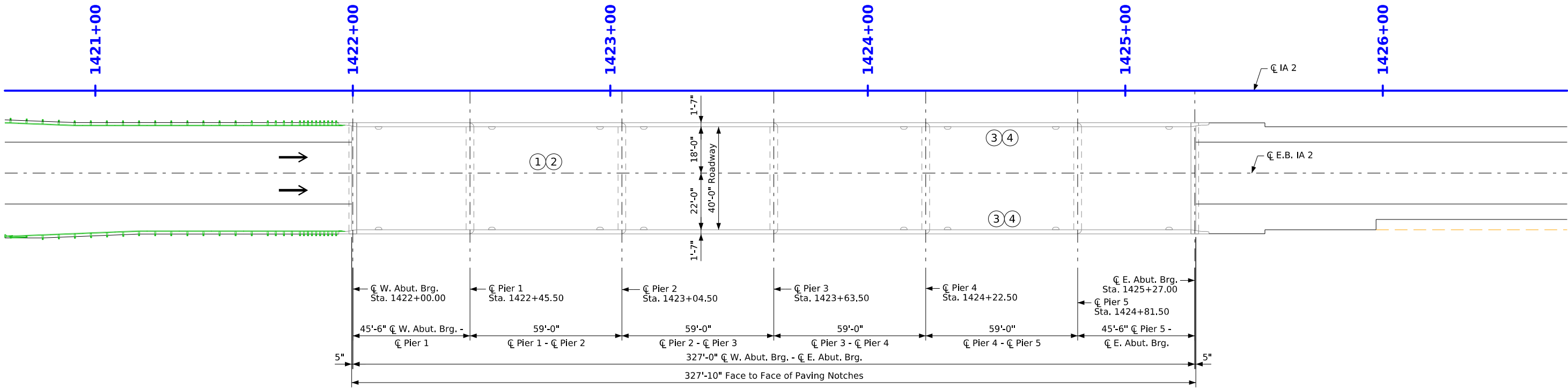
General Notes & Quantities

STA. 1423+63.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

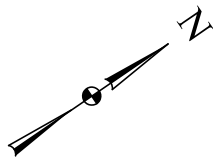
Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427Design Sheet No. 1 of 6FHWA No. 701105

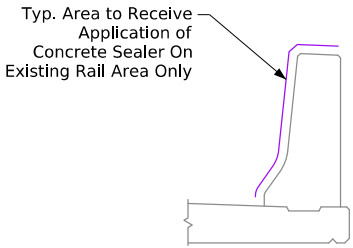


Situation Plan



Repairs Shall Consist of:

- ① Clean and prepare existing bridge slab.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge slab.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	8200	V.P.D.	20 %
TRUCKS			
Total			
Design ESALs	8,360,000		

Location

E.B. IA 2 over Missouri
River Overflow
T-68N R-43W
Section 30
Benton Township
Fremont County
FHWA No. 701105
Bridge Maint. No. 3600.9R002
Latitude 40.682081°
Longitude -95.820290°

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous
Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Situation Plan

STA. 1423+63.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

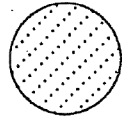
Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427Design Sheet No. 2 of 6FHWA No. 701105


LEGEND

NOTE: Cracks Are Hairline Unless Otherwise Noted

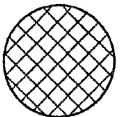


- Scale

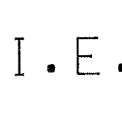
L - Light (up to 1/4")
M - Moderate (1/4" to 1/2")
H - Heavy (1/2" to 1")
S - Severe (over 1")



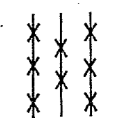
- AC Patch



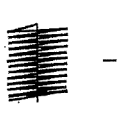
- Spall



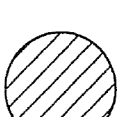
- Areas Injected With Epoxy



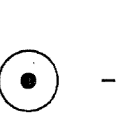
- Exposed Reinforcing




- Leaching



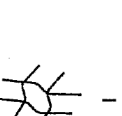
- Delaminated Concrete



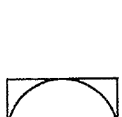
- Stalactite




- PC Patch



- Map Cracking



- Retrofitted Fatigue Crack



- Ground Line Measured From Bridge Seat Unless Noted

Bottom of Slab Inspection Sketches
(For Information Only)

Note:
Total estimated crack length on bottom of slab based on the 2025 inspection sketches is 7.1 L.F.
This measurement is provided for information only.

SCALE	BRIDGE NO.	3600.9R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 1	PROSS	INITIAL	12-26-21	B-16
			Lehman	No Chg.	12-18-23	
			Lehman	No Chg.	12-1-25	

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1423+63.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427Design Sheet No. 3 of 6FHWA No. 701105

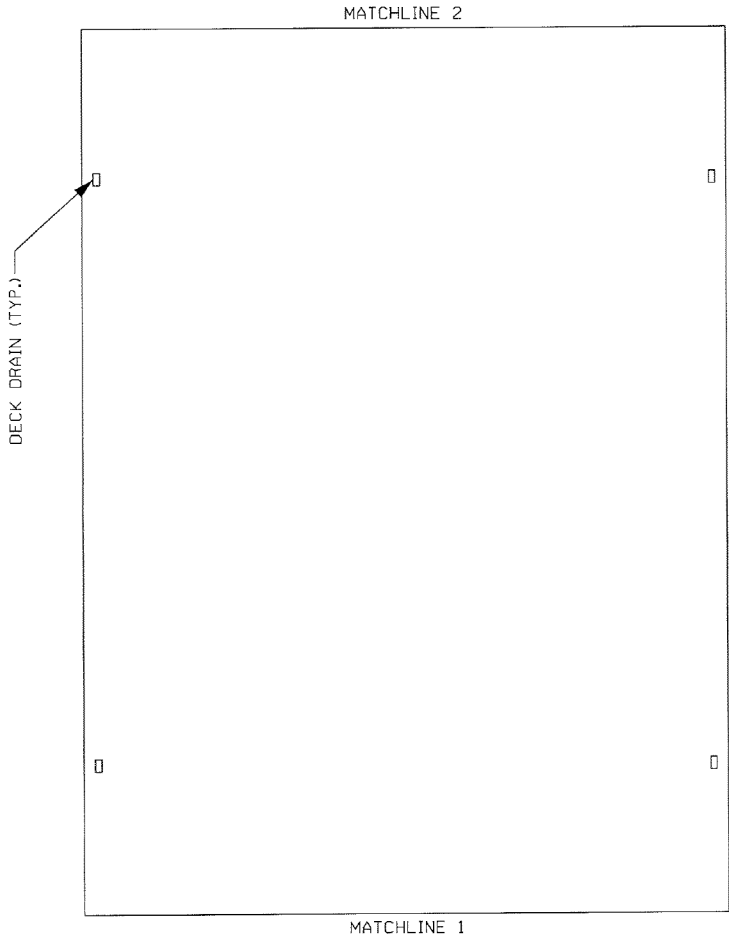
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Fremont COUNTYPROJECT NUMBER BRFN-000-T(461)--39-00

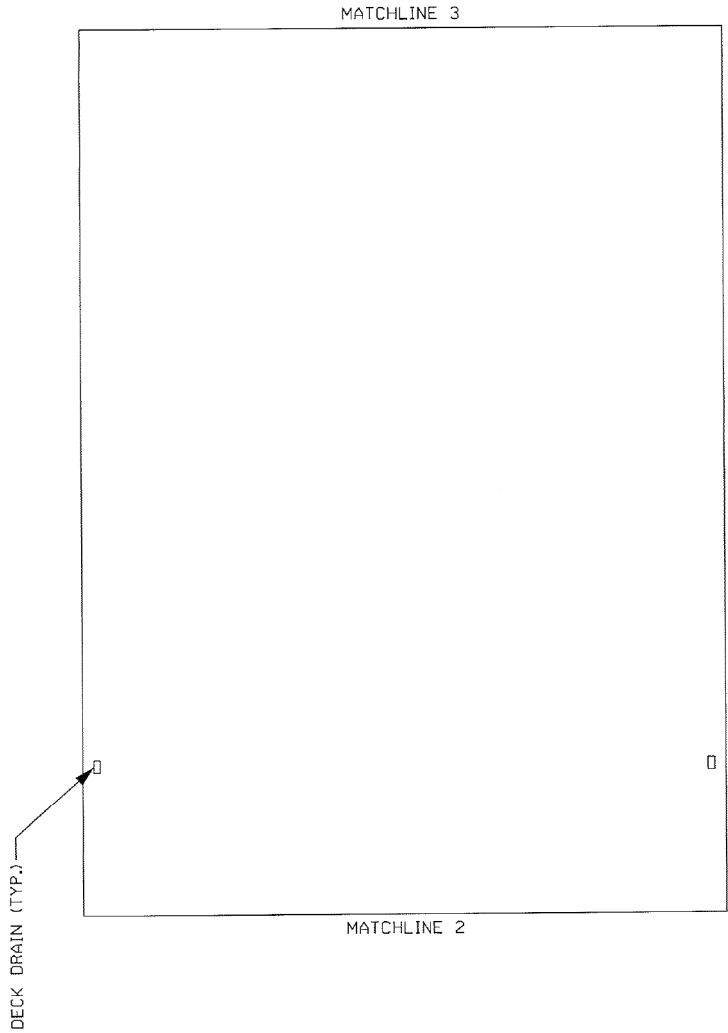
SHEET NUMBER V.27

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SCALE	BRIDGE NO.	3600.9R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 2	Pross	INITIAL	12-20-21	B-17
			Lehman	No Chg.	12-18-23	
			Lehman	No Chg.	12-1-25	



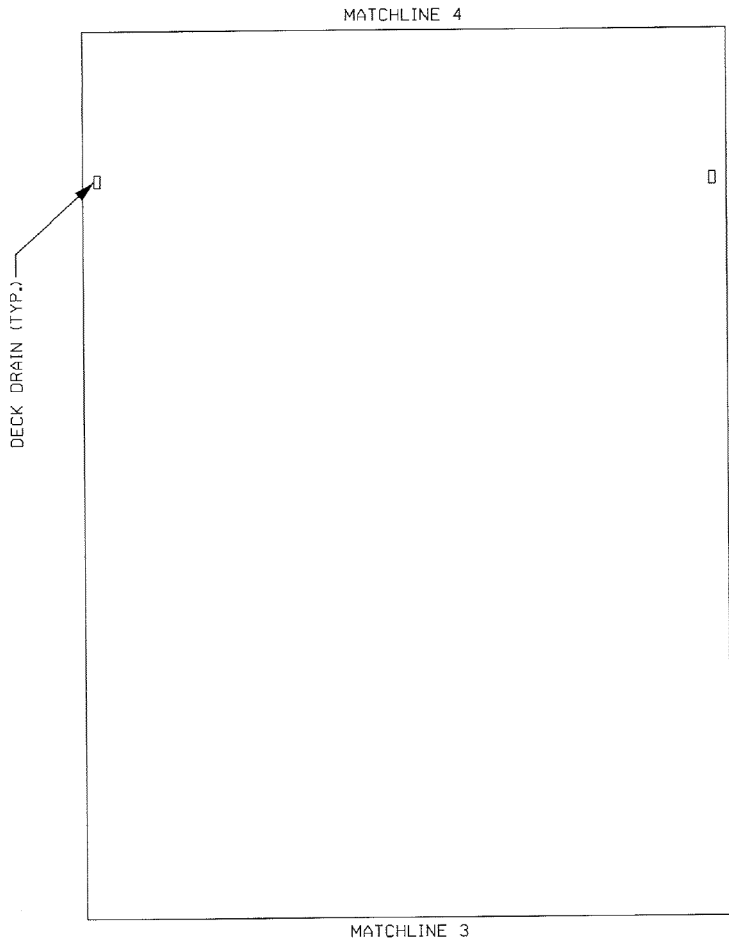
SCALE	BRIDGE NO.	3600.9R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 3	Pross	INITIAL	12-20-21	B-18
			Lehman	No Chg.	12-18-23	
			Lehman	No Chg.	12-1-25	



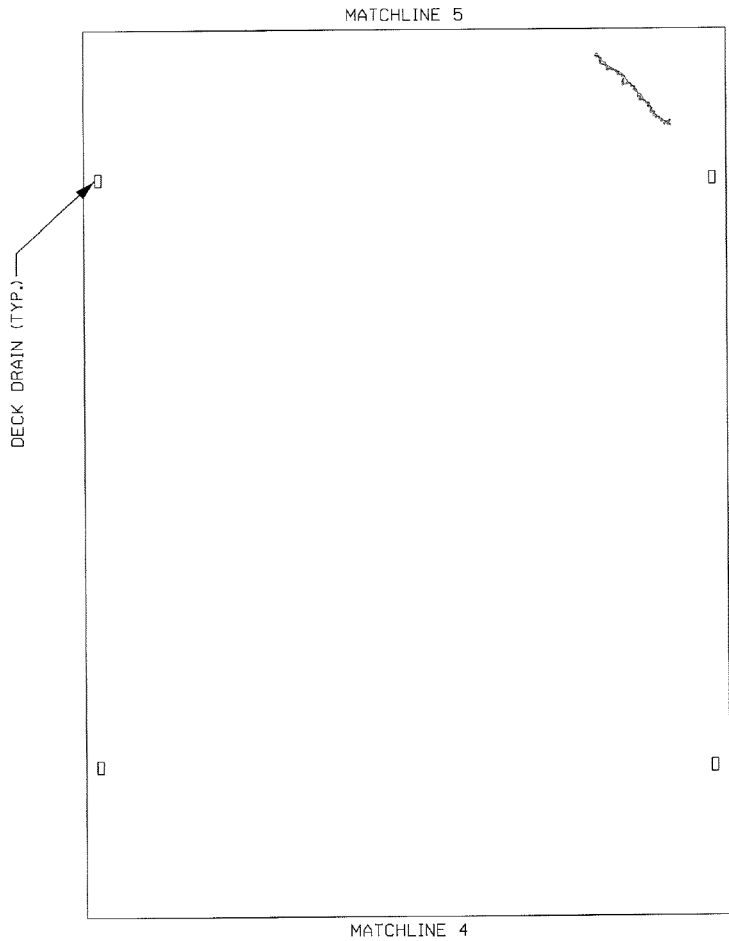
Bottom of Slab Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew
327'-0" x 40'-0" Continuous
Concrete Slab Bridge
45'-6" End Spans 59'-0" Interior Spans
Inspection Sketches
STA. 1423+63.50, 32.00' Rt. (E.B. IA 2) Turn-in Date: May 2026
Fremont County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 427 Design Sheet No. 4 of 6 FHWA No. 701105

SCALE	BRIDGE NO.	3600.9R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 4	PROSS	INITIAL	12-20-21	B-19
			Lehman	No Ch.	12-18-23	
			Lehman	No ch	12-1-25	



SCALE	BRIDGE NO.	3600.9R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 5	PROSS	INITIAL	12-20-21	B-20
			Lehman	No Ch.	12-18-23	
			Lehman	Leaching Crack	12-1-25	



Bottom of Slab Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous
Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

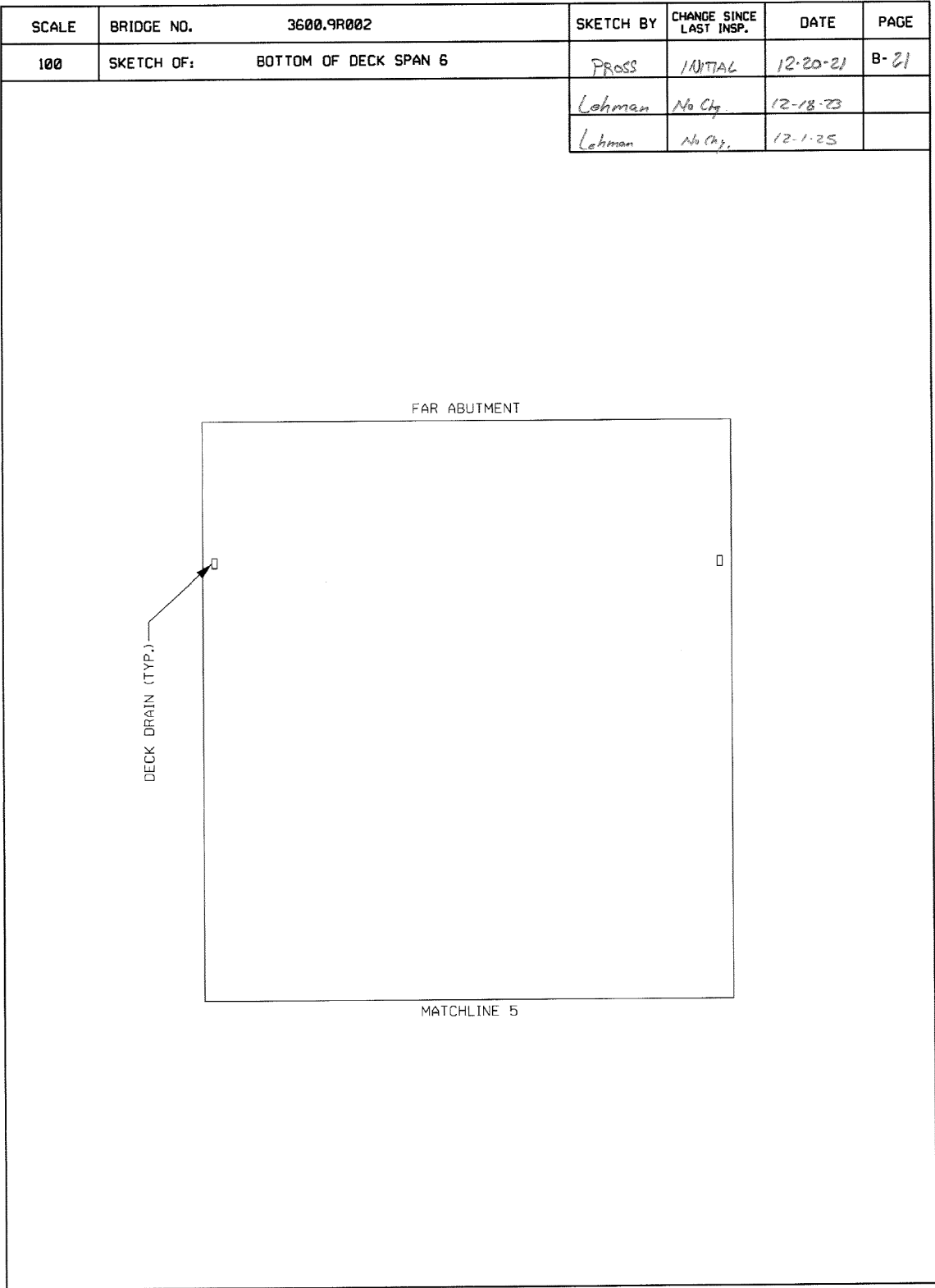
Inspection Sketches

STA. 1423+63.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427Design Sheet No. 5 of 6FHWA No. 701105



Bottom of Slab Inspection Sketch
(For Information Only)

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1423+63.50, 32.00' Rt. (E.B. IA 2)Turn-In Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 427Design Sheet No. 6 of 6FHWA No. 701105

Estimate Bridge Repair Quantities and Reference Notes - Design #527					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 527	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	154	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	13,113	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	2536	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 327'-0" x 40'-0" Continuous Concrete Slab Bridge on W.B. IA 2 over Missouri River Overflow. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
520	Original Design
527	Bridge Repair

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

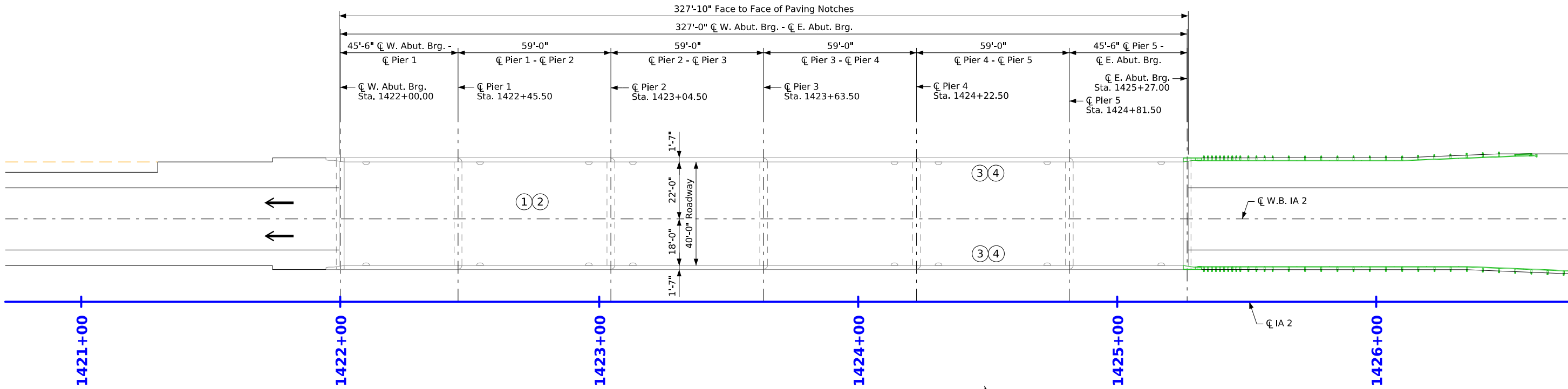
General Notes & Quantities

STA. 1423+63.50, 32.00' Lt. (W.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

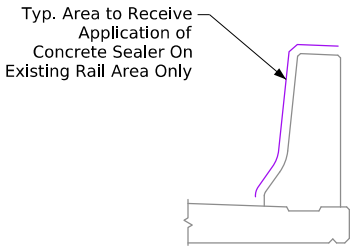
Design No. 527Design Sheet No. 1 of 6FHWA No. 701110



Situation Plan

Repairs Shall Consist of:

- ① Clean and prepare existing bridge slab.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge slab.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	8200	V.P.D.	20 %
TRUCKS			
Total			
Design ESALs	8,360,000		

Location

W.B. IA 2 over Missouri
River Overflow
T-68N R-43W
Section 30
Benton Township
Fremont County
FHWA No. 701110
Bridge Maint. No. 3600.9L002
Latitude 40.682183°
Longitude -95.820472°

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans 59'-0" Interior Spans

Situation Plan

STA. 1423+63.50, 32.00' Lt. (W.B. IA 2) Turn-in Date: May 2026

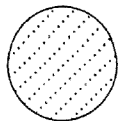
Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 527 Design Sheet No. 2 of 6 FHWA No. 701110


LEGEND

NOTE: Cracks Are Hairline Unless Otherwise Noted

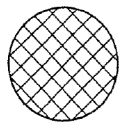


- Scale

L - Light (up to 1/4")
M - Moderate (1/4" to 1/2")
H - Heavy (1/2" to 1")
S - Severe (over 1")



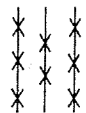
- AC Patch




- Spall

I.E.

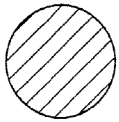
- Areas Injected With Epoxy




- Exposed Reinforcing




- Leaching




- Unsound Concrete



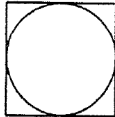
- Stalactite




- PC Patch



- Map Cracking



- Retrofitted Fatigue Crack



Ground Line Measured From Bridge Seat Unless Noted

SCALE	BRIDGE NO.	3600.9L002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 1	Lehman	Initial	12-16-21	B-110
			DK	No chg	12-18-23	
			DK	No chg	12-2-25	

Bottom of Slab Inspection Sketches
(For Information Only)

Note:
Total estimated crack length on bottom of slab based on the 2025 inspection sketches is 0 L.F.
This measurement is provided for information only.

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1423+63.50, 32.00' Lt. (W.B. 1A 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 527Design Sheet No. 3 of 6FHWA No. 701110

FILE NO. 32890

ENGLISH

DESIGN TEAM Foth

2:55:41 PM4/14/2026JAE

pw:\\projectwise.dot.int.lan:PWMMain\Documents\Projects\0000016026\Bridge\461\Bridge Repair\SHT_00000461_FOTH_427-727_40021-701120_Z04-Z06.dgn

Fremont COUNTY

PROJECT NUMBERBRFN-000-T(461)--39-00

SHEET NUMBERV.33

SCALE	BRIDGE NO.	3600.9L002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 2	Lehman	Initial	12-16-21	B-17
			DK	No chg	12-18-23	
			DK	No chg	12-2-25	

MATCHLINE 2

DECK DRAIN (TYP.)

MATCHLINE 1

SCALE	BRIDGE NO.	3600.9L002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 3	Lehman	Initial	12-16-21	B-18
			DK	No chg	12-18-23	
			DK	No chg	12-2-25	

MATCHLINE 3

DECK DRAIN (TYP.)

MATCHLINE 2

Bottom of Slab Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

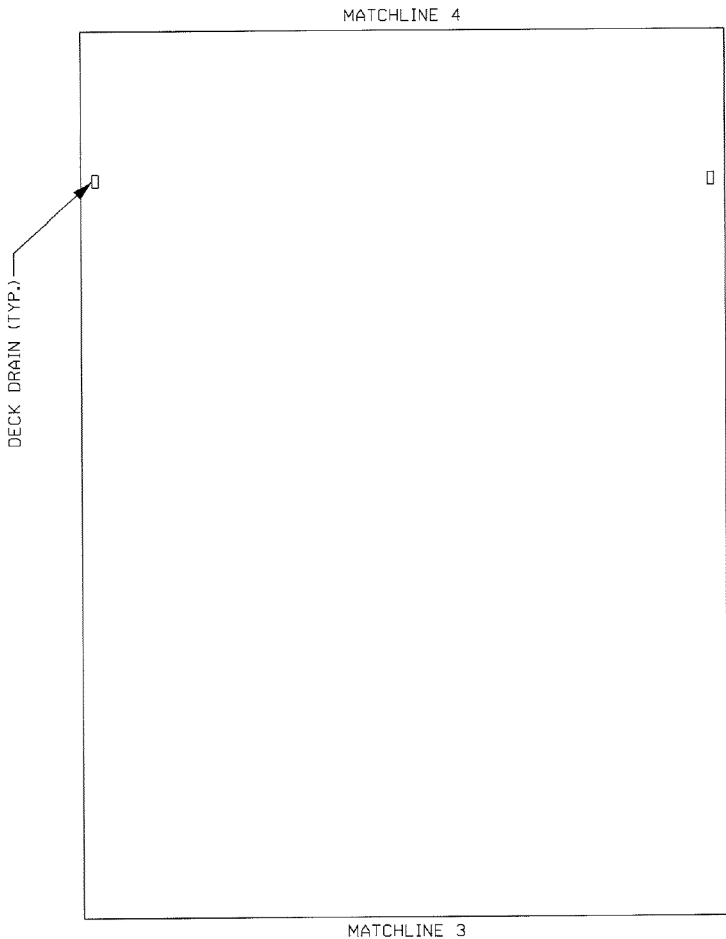
STA. 1423+63.50, 32.00' Lt. (W.B. 1A 2)Turn-in Date: May 2026

Fremont County

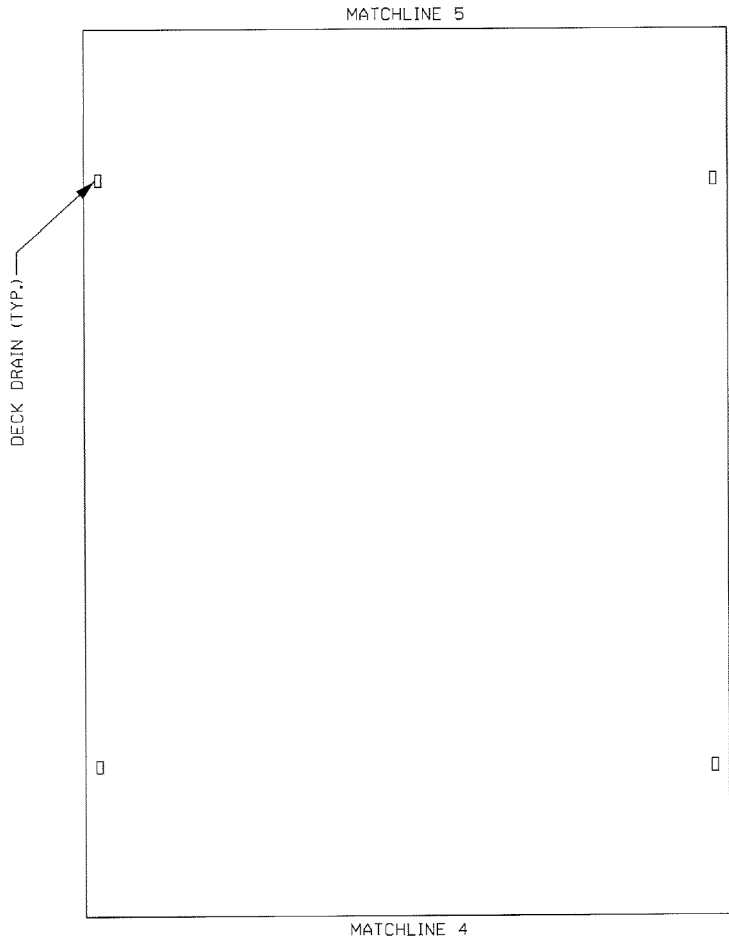
IOWA DEPARTMENT OF TRANSPORTATION

Design No. 527Design Sheet No. 4 of 6FHWA No. 701110

SCALE	BRIDGE NO.	3600.9L002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 4	Lehman	Initial	12-16-21	B-19
			DK	No chg	12-18-23	
			DK	No chg	12-2-25	



SCALE	BRIDGE NO.	3600.9L002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 5	Lehman	Initial	12-16-21	B-20
			DK	No chg	12-18-23	
			DK	No chg	12-2-25	



Bottom of Slab Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

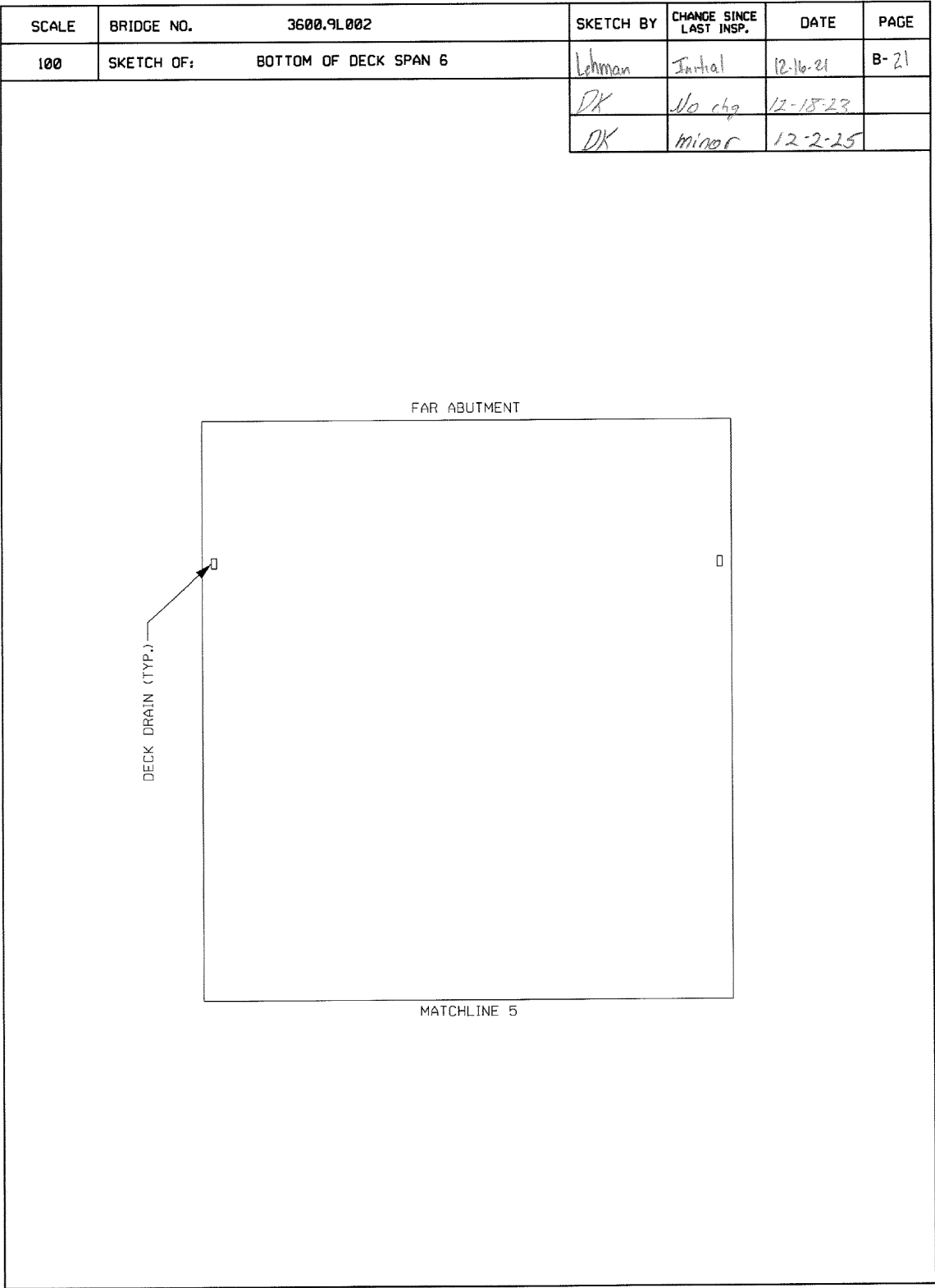
Inspection Sketches

STA. 1423+63.50, 32.00' Lt. (W.B. 1A 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 527Design Sheet No. 5 of 6FHWA No. 701110



Bottom of Slab Inspection Sketch
(For Information Only)

Design For Repair To 0 Degree Skew

327'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1423+63.50, 32.00' Lt. (W.B. 1A 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 527Design Sheet No. 6 of 6FHWA No. 701110

Estimate Bridge Repair Quantities and Reference Notes - Design #627					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 627	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	99	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	8393	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	1650	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 209'-0" x 40'-0" Continuous Concrete Slab Bridge on E.B. IA 2 over Missouri River Overflow. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
620	Original Design
627	Bridge Repair

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

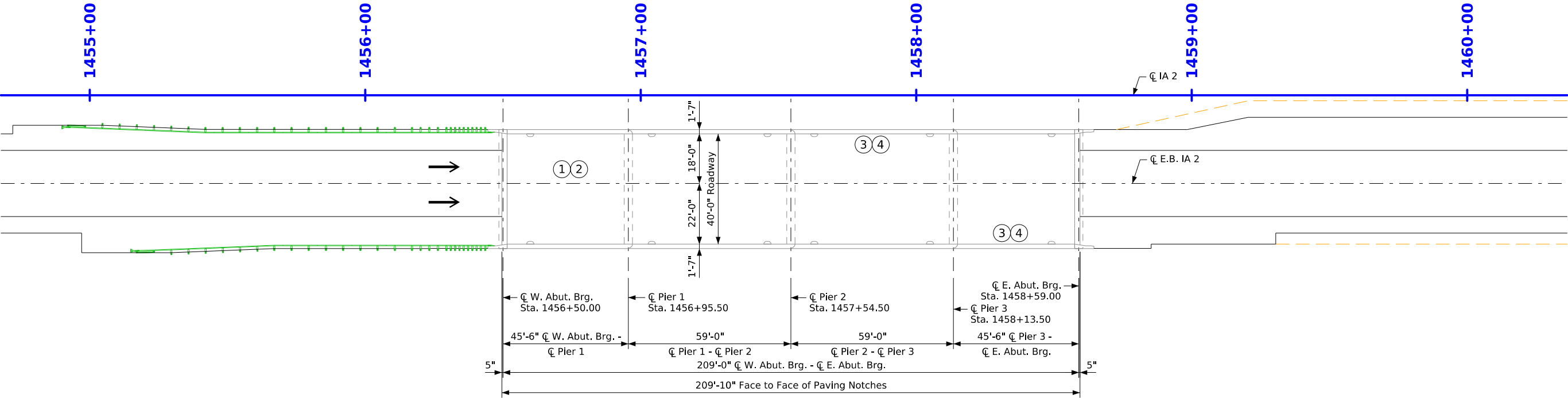
General Notes & Quantities

STA. 1457+54.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

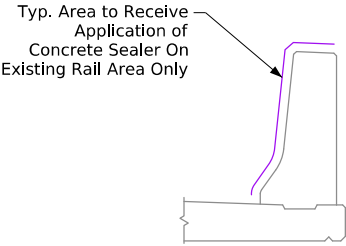
Design No. 627Design Sheet No. 1 of 5FHWA No. 701115



Situation Plan

Repairs Shall Consist of:

- ① Clean and prepare existing bridge slab.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge slab.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	8200	V.P.D.	
TRUCKS		%	20
Total Design ESALs	8,360,000		

Location

E.B. IA 2 over Missouri River Overflow
T-68N R-43W
Section 30
Benton Township
Fremont County
FHWA No. 701115
Bridge Maint. No. 3601.5R002
Latitude 40.705022°
Longitude -95.811911°

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Situation Plan

STA. 1457+54.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627Design Sheet No. 2 of 5FHWA No. 701115

Bridge No 3601.5R002Page B-1

LEGEND

NOTE: Cracks Are Hairline Unless Otherwise Noted

L - Light (up to 1/4")

M - Moderate (1/4" to 1/2")

H - Heavy (1/2" to 1")

S - Severe (over 1")

Scale

Spall

Exposed Reinforcing

Delaminated Concrete

PC Patch

Retrofitted Fatigue Crack

I.E. - Areas Injected With Epoxy

Leaching

Stalactite

Map Cracking

Ground Line Measured From Bridge Seat Unless Noted

SCALE	BRIDGE NO.	3601.5R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 1	Press	INITIAL	12-21-24	B-12
			Lehman	No Chg.	12-18-23	
			Lehman	No Chg.	12-3-25	

MATCHLINE 1

DECK DRAIN (TYP.)

NEAR ABUTMENT

Bottom of Slab Inspection Sketches

(For Information Only)

Note:
Total estimated crack length on bottom of slab based on the 2025 inspection sketches is 0 L.F.
This measurement is provided for information only.

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1457+54.50, 32.00' Rt. (E.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627Design Sheet No. 3 of 5FHWA No. 701115

FILE NO. 32890

ENGLISH

DESIGN TEAM Foth

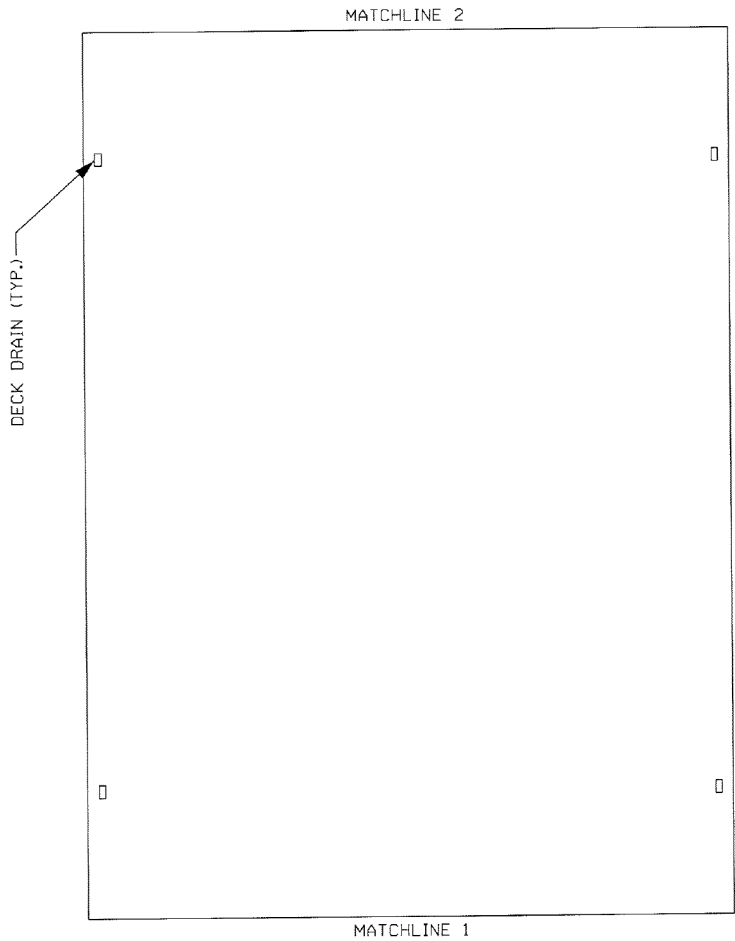
Fremont COUNTY

PROJECT NUMBER BRFN-000-T(461)--39-00

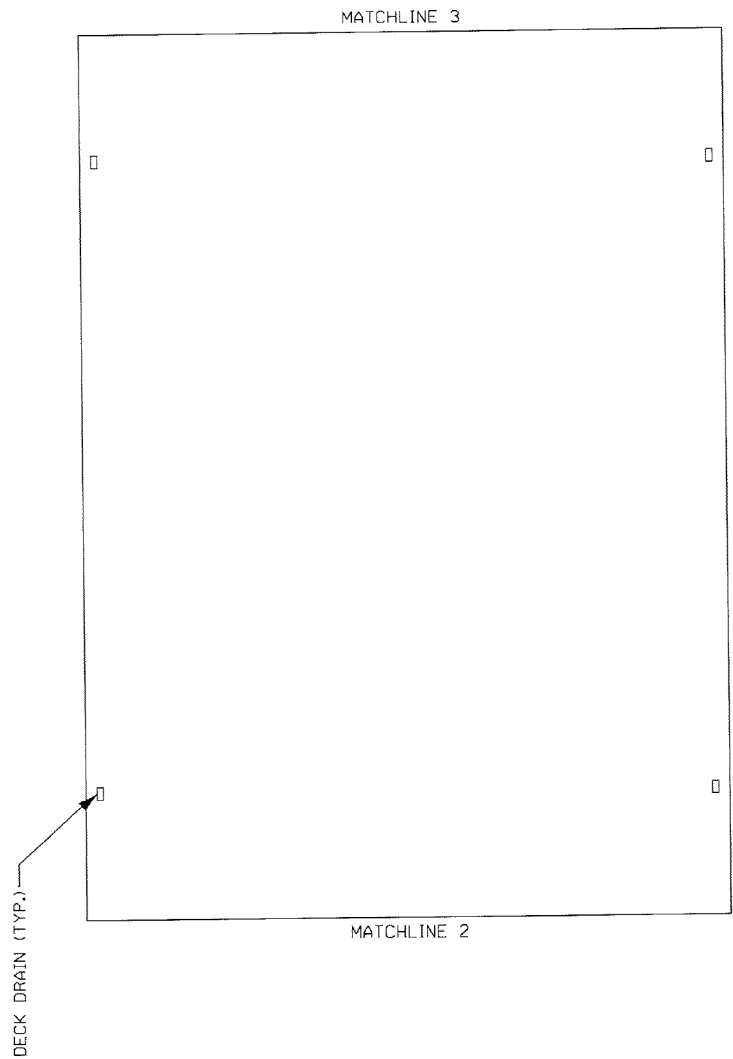
SHEET NUMBER V.39

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SCALE	BRIDGE NO.	3601.5R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 2	Pross	INITIAL	12-21-21	B-13
			Lehman	No Chg.	12-18-23	
			Lehman	No Chg.	12-3-25	

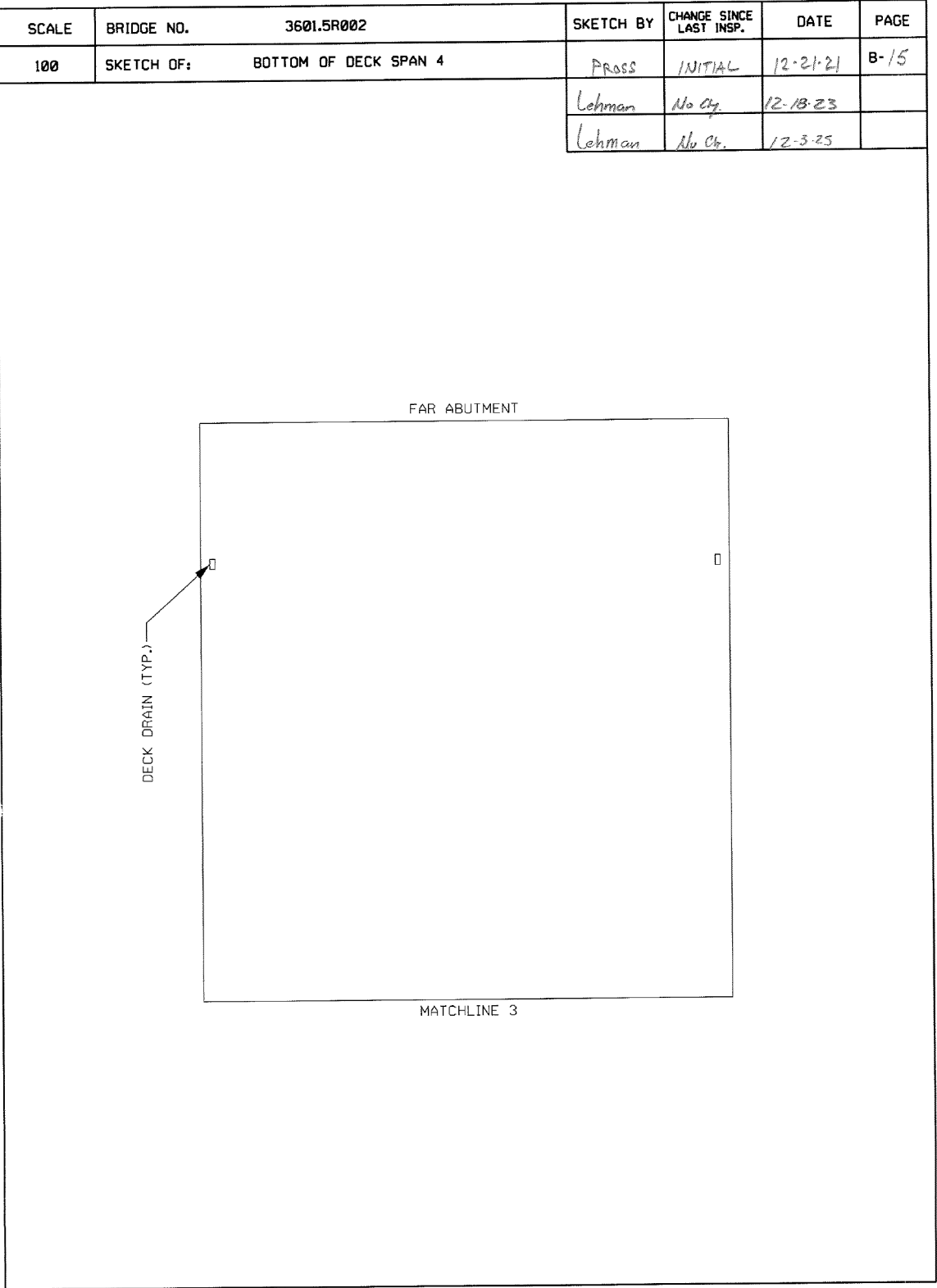


SCALE	BRIDGE NO.	3601.5R002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 3	Pross	INITIAL	12-21-21	B-14
			Lehman	No Chg.	12-18-23	
			Lehman	No Chg.	12-3-25	



Bottom of Slab Inspection Sketches
(For Information Only)

Design For Repair To 0 Degree Skew
209'-0" x 40'-0" Continuous
Concrete Slab Bridge
45'-6" End Spans 59'-0" Interior Spans
Inspection Sketches
STA. 1457+54.50, 32.00' Rt. (E.B. IA 2) Turn-in Date: May 2026
Fremont County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 627 Design Sheet No. 4 of 5 FHWA No. 701115



Bottom of Slab Inspection Sketch
(For Information Only)

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous
Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1457+54.50, 32.00' Rt. (E.B. IA 2)Turn-In Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 627Design Sheet No. 5 of 5FHWA No. 701115

Estimate Bridge Repair Quantities and Reference Notes - Design #727					
Item No.	Item Code	Item	Unit	Quantities Estimated Design No. 727	Estimate Reference Notes
1	2533-4980005	MOBILIZATION	LS	1	----
2	2599-9999006	FURNISH HMWM BRIDGE DECK TREATMENT MATERIAL	GAL	99	Includes furnishing HMWM deck treatment in accordance with the application rates stated in the Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
3	2599-9999014	BRIDGE DECK SEALING, HMWM	SF	8393	Includes surface preparation and application of HMWM in accordance with Special Provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment.
4	2599-9999014	BRIDGE RAIL SEALING	SF	1650	Includes cleaning existing barriers, furnishing and placing concrete sealer in accordance with Article 2403.03,P,3, of the Standard Specifications.

General Notes:

This design is for repairs to the existing 209'-0" x 40'-0" Continuous Concrete Slab Bridge on W.B. IA 2 over Missouri River Overflow. Electronic copies of original design plans are available to the Contractor as part of the e-files supplied with the contract documents.

See Design Sheet No. 2 for list of repair items.

All dimensions and details shown on these plans pertinent to new construction shall be verified in the field by the Contractor before starting construction.

Faint lines on plans indicate existing portions of the bridge.

Utility companies whose facilities are shown on the plans or known to be within the construction limits shall be notified by the Bridge Contractor of the starting date.

The top and interior faces of the existing concrete railing are to be cleaned and sealed in accordance with Article 2403.03, P, of the Standard Specifications. If new sections of rail are constructed, the new sections shall not be sealed. All costs associated with cleaning and sealing of the concrete rails shall be included in the unit price bid item "Bridge Rail Sealing".

Construction shall be done in stages with at least one lane traffic maintained at all times in accordance with "Traffic Control Plan" note.

Construction Stages 1 & 2 as detailed on these plans may be reversed at the Contractor's option subject to the Engineer's approval.

Specifications:

Design:
AASHTO Series of 2002.

Construction:

Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, Series 2023, plus applicable General Supplemental Specifications, Developmental Specifications, Supplemental Specifications and Special Provisions shall apply to construction work on this project, including:

- Special provisions for High Molecular Weight Methacrylate Resin Bridge Deck Treatment

Design Stresses:

Design stresses for the following materials are in accordance with the AASHTO Standard Specifications for Highway Bridges, Series of 2002.

Roadway Quantities shown elsewhere in these plans.

Traffic Control Plan

The roadway will be open to thru traffic. Refer to the Traffic Control Plan shown elsewhere in these plans.

Design History at this Site	
(Includes this Design)	
Des. No.	Type of Work
720	Original Design
727	Bridge Repair

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

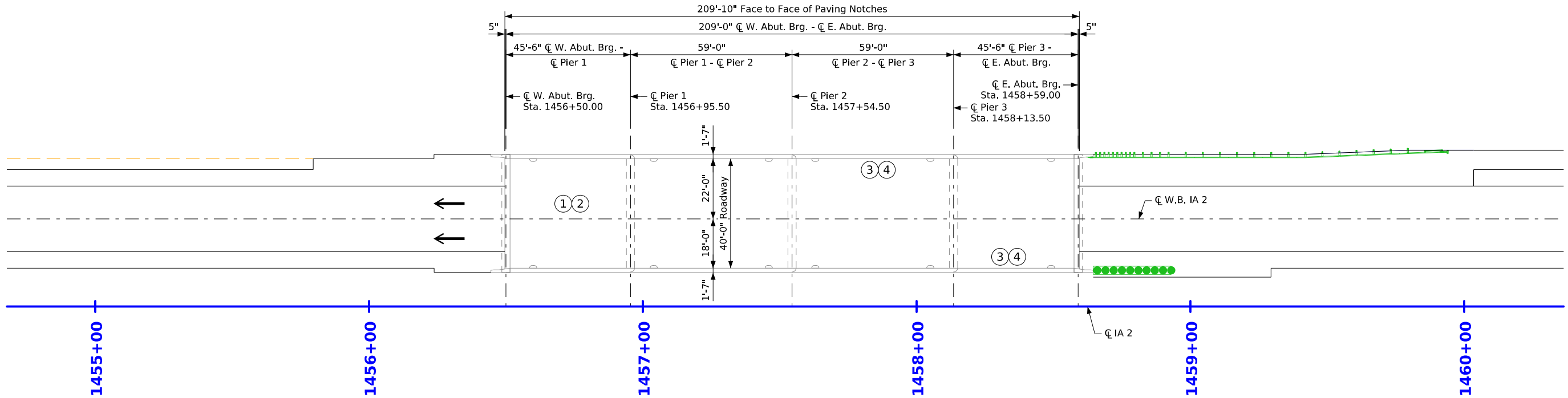
General Notes & Quantities

STA. 1457+54.50, 32.00' Lt. (W.B. IA 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

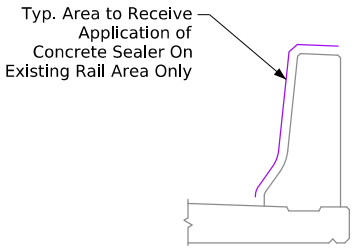
Design No. 727Design Sheet No. 1 of 5FHWA No. 701120



Situation Plan

Repairs Shall Consist of:

- ① Clean and prepare existing bridge slab.
- ② Apply High Molecular Weight Methacrylate (HMWM) sealer to the existing bridge slab.
- ③ Clean and prepare existing barrier rails.
- ④ Apply sealer to the existing barrier rails.



Detail of Concrete Sealer Area

Traffic Estimate

2024 AADT	8200	V.P.D.	
TRUCKS	20	%	
Total Design ESALs	8,360,000		

Location

W.B. IA 2 over Missouri River Overflow
T-68N R-43W
Section 30
Benton Township
Fremont County
FHWA No. 701120
Bridge Maint. No. 3601.5L002
Latitude 40.688522°
Longitude -95.811972°

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans 59'-0" Interior Spans

Situation Plan

STA. 1457+54.50, 32.00' Lt. (W.B. IA 2) Turn-in Date: May 2026

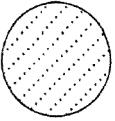
Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 727 Design Sheet No. 2 of 5 FHWA No. 701120


LEGEND

NOTE: Cracks Are Hairline Unless Otherwise Noted

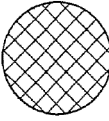


- Scale

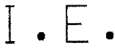
L - Light (up to 1/4")
M - Moderate (1/4" to 1/2")
H - Heavy (1/2" to 1")
S - Severe (over 1")



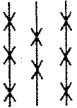
- AC Patch




- Spall



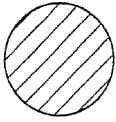
- Areas Injected With Epoxy




- Exposed Reinforcing




- Leaching




- Unsound Concrete



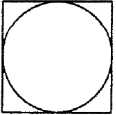
- Stalactite




- PC Patch



- Map Cracking



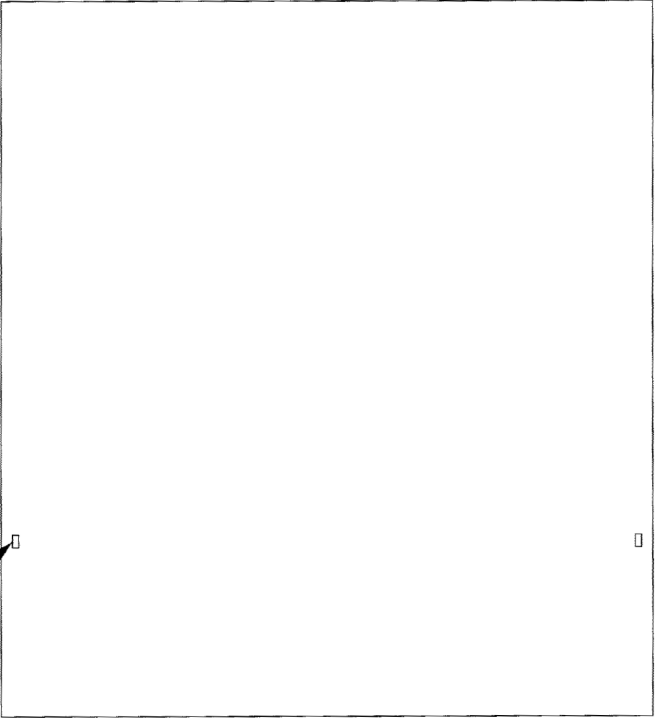
- Retrofitted Fatigue Crack



- Ground Line Measured From Bridge Seat Unless Noted

SCALE	BRIDGE NO.	3601.5L002	SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100	SKETCH OF:	BOTTOM OF DECK SPAN 1	Lehman	Initial	12-21-21	B-12
			DK	No chg	12-18-23	
			DK	No chg	12-2-25	

MATCHLINE 1



DECK DRAIN (TYP.)

NEAR ABUTMENT

Bottom of Slab Inspection Sketches
(For Information Only)

Note:
Total estimated crack length on bottom of slab based on the 2025 inspection sketches is 0 L.F.
This measurement is provided for information only.

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1457+54.50, 32.00' Lt. (W.B. 1A 2)Turn-In Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 727Design Sheet No. 3 of 5FHWA No. 701120

FILE NO. 32890ENGLISHDESIGN TEAM Foth

Fremont COUNTYPROJECT NUMBER BRFN-000-T(461)--39-00

SHEET NUMBER V.44

2:55:55 PM4/14/2026JAEpw:\\projectwise.dot.int.lan:PWMMain\Documents\Projects\0000016026\Bridge\461_Bridge Repair\SHT_00000461_FOTH_427-727_40021-701120_Z04-Z06.dgn

SCALE		BRIDGE NO. 3601.5L002		SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100		SKETCH OF: BOTTOM OF DECK SPAN 2		Lehman	Initial	12-21-21	B-13
				DK	No chg	12-18-23	
				DK	No chg	12-2-25	

MATCHLINE 2

DECK DRAIN (TYP.)

MATCHLINE 1

SCALE		BRIDGE NO. 3601.5L002		SKETCH BY	CHANGE SINCE LAST INSP.	DATE	PAGE
100		SKETCH OF: BOTTOM OF DECK SPAN 3		Lehman	Initial	12-21-21	B-14
				DK	No chg	12-18-23	
				DK	No chg	12-2-25	

MATCHLINE 3

DECK DRAIN (TYP.)

MATCHLINE 2

Bottom of Slab Inspection Sketches

(For Information Only)

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

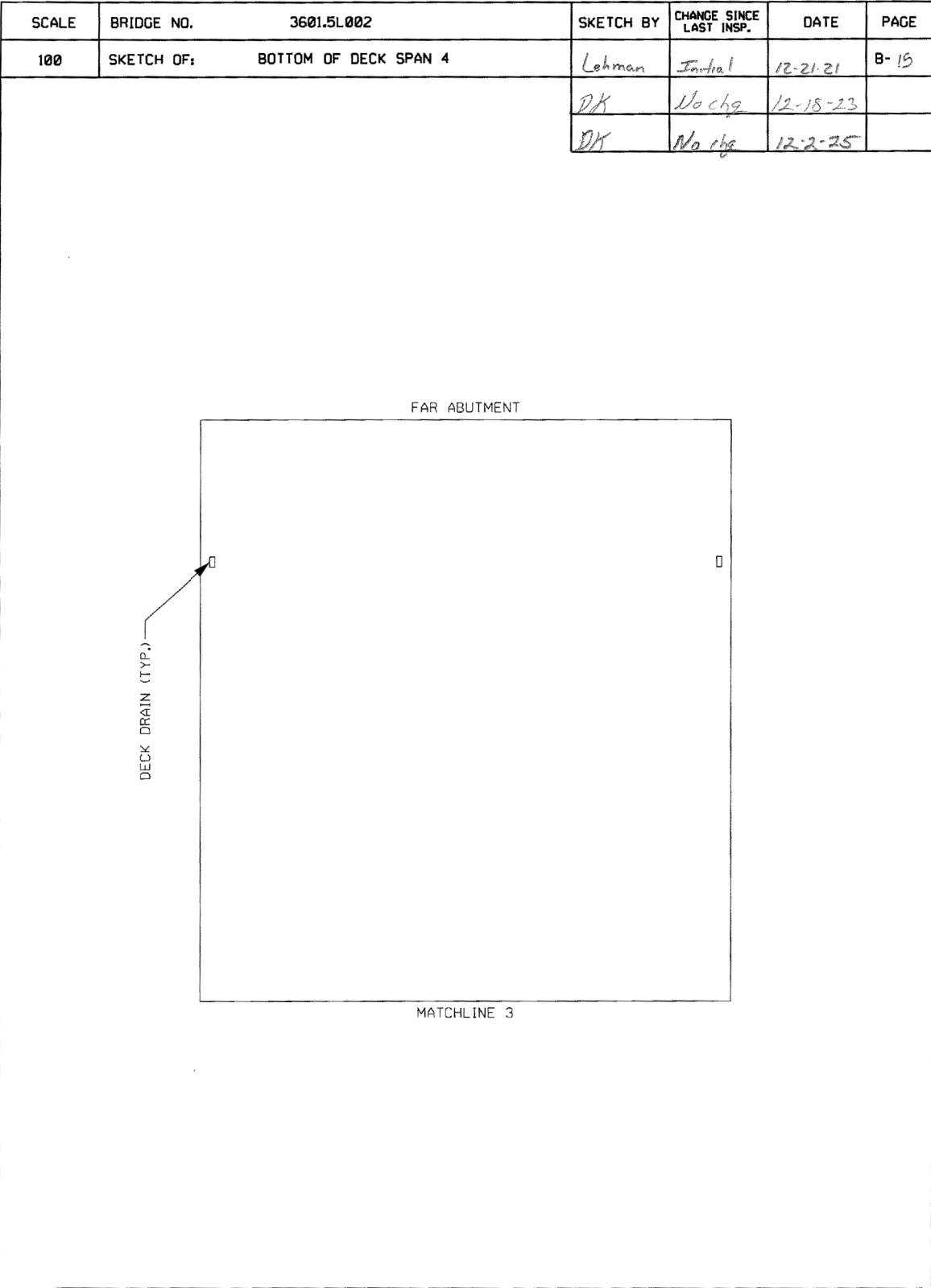
STA. 1457+54.50, 32.00' Lt. (W.B. 1A 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 727Design Sheet No. 4 of 5FHWA No. 701120

FILE NO. 32890	ENGLISH	DESIGN TEAM Foth	Fremont COUNTY	PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER V.45
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Bottom of Slab Inspection Sketch
(For Information Only)

Design For Repair To 0 Degree Skew

209'-0" x 40'-0" Continuous Concrete Slab Bridge

45'-6" End Spans59'-0" Interior Spans

Inspection Sketches

STA. 1457+54.50, 32.00' Lt. (W.B. 1A 2)Turn-in Date: May 2026

Fremont County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 727Design Sheet No. 5 of 5FHWA No. 701120

Index of Sheets	
No.	Description
A Sheets	Title Sheets
A.10	Roadway Design Seal
C Sheets	Quantities and General Information
C.1	Estimated Project Quantities - Overall Project Totals
C.2	Estimated Road Quantities - Plymouth Design 427
C.3	Estimated Road Quantities - Monona Design 227
C.4	Estimated Road Quantities - Pottawattamie Design 527
C.5	Estimated Road Quantities - Pottawattamie Design 627
C.6	Estimated Road Quantities - Fremont Design 427
C.7	Estimated Road Quantities - Fremont Design 527
C.8	Estimated Road Quantities - Fremont Design 627
C.9	Estimated Road Quantities - Fremont Design 727
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control and Staging - Plymouth Design 427
J.2	Traffic Control and Staging - Monona Design 227
J.3 - J.9	Traffic Control and Staging - Pottawattamie Design 527
J.10	Traffic Control and Staging - Pottawattamie Design 627
J.11	Traffic Control and Staging - Fremont Design 427
J.12	Traffic Control and Staging - Fremont Design 527
J.13	Traffic Control and Staging - Fremont Design 627
J.14	Traffic Control and Staging - Fremont Design 727



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Jordan Provost 04-23-2026
Signature Date

JORDAN PROVOST
Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: A.10, C.1-C.9, J.1-J.14

ESTIMATED PROJECT QUANTITES														100-01C Modified
Item No.	Item Code	Item	Unit	Quantities										
				Plymouth 427	Monona 227	Pottawattamie 527	Pottawattamie 627	Fremont 427	Fremont 527	Fremont 627	Fremont 727	Total	As Built	
1	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	16.97	18.88							35.85		
2	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	16.97	18.88	17.09	39.70	7.36	7.36	4.70	4.70	116.76		
3	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	0.96	0.96							1.92		
4	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EA	1	1							2		
5	2528-8445110	TRAFFIC CONTROL	LS	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	1		

PROJECT DESCRIPTION - PLYMOUTH 427					100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for IA 12 over Indian Creek, 4.0 miles north of Co. Rd. C16 in Plymouth County.					

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	16.97		
2	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	16.97		
3	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	0.96		
4	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EA	1		
5	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-216	04-18-23	Lane Closure with Signals	
TC-233	10-17-17	Pavement Marking Operations Two-Lane	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities	C.2	
100-1D	Project Description	C.2	
105-4	Standard Road Plans	C.2	
108-22	Pavement Marking Line Types	C.2	
111-25	Index of Tabulations	C.2	
J Sheets			
108-23A	Traffic Control Plan	J.1	
108-26A	Staging Notes	J.1	
108-28	Temporary Traffic Signals	J.1	
111-1	Coordinated Operations	J.1	

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
IA 12	281+58.00	289+12.00	NB	Center	Waterborne/Solvent Paint	7.54	Broken Centerline Yellow (BCY6)	0.25	1.89	Pavement Marking Removal Limits, per TC-216	
IA 12	281+58.00	289+12.00	NB	Left	Waterborne/Solvent Paint	7.54	Edge Line Right White (ELW6)	1.00	7.54	Pavement Marking Removal Limits, per TC-216	
IA 12	281+58.00	289+12.00	NB	Right	Waterborne/Solvent Paint	7.54	Edge Line Right White (ELW6)	1.00	7.54	Pavement Marking Removal Limits, per TC-216	
IA 12	281+58.00		NB		Wet Retroreflective Removable Tape	0.12	Stop Line White (SLW2)	4.00	0.48	Temporary Stop Bar, per TC-216	
IA 12	289+12.00		SB		Wet Retroreflective Removable Tape	0.12	Stop Line White (SLW2)	4.00	0.48	Temporary Stop Bar, per TC-216	
								TOTAL	16.97	Pavement Markings Removed	
									16.97	Waterborne/Solvent Paint	
									0.96	Removable Tape Markings, Wet Retroreflective	

										PLYMOUTH 427
FILE NO. 32890	ENGLISH	DESIGN TEAM FOTH	PLYMOUTH COUNTY				PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER C.2		

PROJECT DESCRIPTION - MONONA 227						100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for IA 175 over Maple River, 1.0 mile west of east Junction IA 141 in Monona County.						

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	18.88		
2	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	18.88		
3	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	0.96		
4	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EA	1		
5	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-216	04-18-23	Lane Closure with Signals	
TC-233	10-17-17	Pavement Marking Operations Two-Lane	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities	C.3	
100-1D	Project Description	C.3	
105-4	Standard Road Plans	C.3	
108-22	Pavement Marking Line Types	C.3	
111-25	Index of Tabulations	C.3	
J Sheets			
108-23A	Traffic Control Plan	J.2	
108-26A	Staging Notes	J.2	
108-28	Temporary Traffic Signals	J.2	
111-1	Coordinated Operations	J.2	

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
IA 175	660+01.00	668+40.00	WB	Center	Waterborne/Solvent Paint	8.39	Broken Centerline Yellow (BCY6)	0.25	2.10	Pavement Marking Removal Limits, per TC-216	
IA 175	660+01.00	668+40.00	WB	Left	Waterborne/Solvent Paint	8.39	Edge Line Right White (ELW6)	1.00	8.39	Pavement Marking Removal Limits, per TC-216	
IA 175	660+01.00	668+40.00	WB	Right	Waterborne/Solvent Paint	8.39	Edge Line Right White (ELW6)	1.00	8.39	Pavement Marking Removal Limits, per TC-216	
IA 175	660+01.00		EB		Wet Retroreflective Removable Tape	0.12	Stop Line White (SLW2)	4.00	0.48	Temporary Stop Bar, per TC-216	
IA 175	668+40.00		WB		Wet Retroreflective Removable Tape	0.12	Stop Line White (SLW2)	4.00	0.48	Temporary Stop Bar, per TC-216	
								TOTAL	18.88	Pavement Markings Removed	
									18.88	Waterborne/Solvent Paint	
									0.96	Removable Tape Markings, Wet Retroreflective	

										MONONA 227	
FILE NO. 32890	ENGLISH	DESIGN TEAM FOTH	MONONA COUNTY			PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER C.3				

PROJECT DESCRIPTION - POTTAWATTAMIE 527						100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for EB US 6 over 40th Street, at the I-480/I-29 interchange.						

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	17.09		
2	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-402	04-18-23	Work Within 15 ft of Traveled Way	
TC-433	10-17-17	Pavement Marking Operations	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities		C.4
100-1D	Project Description		C.4
105-4	Standard Road Plans		C.4
108-22	Pavement Marking Line Types		C.4
111-25	Index of Tabulations		C.4
J Sheets			
108-23A	Traffic Control Plan		J.3
108-23B	Traffic Control Closure Tables		J.3
108-26A	Staging Notes		J.3

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
I-480 Ramp C	3553+24.00	3556+30.00	EB	Right	Waterborne/Solvent Paint	3.06	Edge Line Right White (ELW6)	1.00	3.06	Repaint existing Pavement Markings	
I-480 Ramp C	3553+24.00	3556+30.00	EB	Center	Waterborne/Solvent Paint	3.06	Broken Lane Line White (BLW6)	0.25	0.77	Repaint existing Pavement Markings	
I-480 Ramp C	3553+24.00	3556+30.00	EB	Left	Waterborne/Solvent Paint	3.06	Channelizing Line White (CHW10)	1.67	5.10	Repaint existing Pavement Markings	
I-480 Ramp F	3553+24.00	3556+30.00	EB	Right	Waterborne/Solvent Paint	3.06	Channelizing Line White (CHW10)	1.67	5.10	Repaint existing Pavement Markings	
I-480 Ramp F	3553+24.00	3556+30.00	EB	Left	Waterborne/Solvent Paint	3.06	Edge Line Left Yellow (ELY6)	1.00	3.06	Repaint existing Pavement Markings	
								TOTAL	17.09	Waterborne/Solvent Paint	

										POTTAWATTAMIE 527
FILE NO. 32890	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY				PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER C.4		

PROJECT DESCRIPTION - POTTAWATTAMIE 627						100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for EB US 6 over Frontage Rd. and 2nd Ave., at the I-480 and I-29 Interchange.						

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	39.70		
2	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-402	04-18-23	Work Within 15 ft of Traveled Way	
TC-433	10-17-17	Pavement Marking Operations	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities		C.5
100-1D	Project Description		C.5
105-4	Standard Road Plans		C.5
108-22	Pavement Marking Line Types		C.5
111-25	Index of Tabulations		C.5
J Sheets			
108-23A	Traffic Control Plan		J.10
108-23B	Traffic Control Closure Tables		J.10

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
I-480 Ramp C	3539+05.00	3553+24.00	EB/SB	Right	Waterborne/Solvent Paint	14.19	Edge Line Right White (ELW6)	1.00	14.19	Repaint existing Pavement Markings	
I-480 Ramp C	3539+05.00	3553+24.00	EB/SB	Right	Waterborne/Solvent Paint	14.19	Broken Lane Line White (BLW6)	0.25	3.55	Repaint existing Pavement Markings	
I-480 Ramp C	3539+05.00	3541+15.00	EB/SB	Right	Waterborne/Solvent Paint	2.10	Channelizing Line White (CHW10)	1.67	3.50	Repaint existing Pavement Markings	
I-480 Ramp C	3539+05.00	3541+15.00	EB/SB	Right	Waterborne/Solvent Paint	2.10	Channelizing Line White (CHW10)	1.67	3.50	Repaint existing Pavement Markings	
I-480 Ramp C	3539+05.00	3553+24.00	EB/SB	Lef	Waterborne/Solvent Paint	14.19	Edge Line Left Yellow (ELY6)	1.00	14.19	Repaint existing Pavement Markings	
I-480 Ramp C	3541+15.00	3543+50.00	EB/SB	Right	Waterborne/Solvent Paint	2.35	Dotted Line White (DLW6)	0.33	0.78	Repaint existing Pavement Markings	
								TOTAL	39.70	Waterborne/Solvent Paint	

										POTTAWATTAMIE 627
FILE NO. 32890	ENGLISH	DESIGN TEAM FOTH	POTTAWATTAMIE COUNTY				PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER C.5		

PROJECT DESCRIPTION - FREMONT 427						100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for EB IA 2 over Missouri River overflow, 2.2 miles west of I-29.						

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	7.36		
2	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-402	04-18-23	Work Within 15 ft of Traveled Way	
TC-418	04-18-23	Lane Closure on Divided Highway	
TC-433	10-17-17	Pavement Marking Operations	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities	C.6	
100-1D	Project Description	C.6	
105-4	Standard Road Plans	C.6	
108-22	Pavement Marking Line Types	C.6	
111-25	Index of Tabulations	C.6	
J Sheets			
108-23A	Traffic Control Plan	J.11	
108-26A	Staging Notes	J.11	

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
EB IA 2	1422+00.00	1425+27.00	EB	Center	Waterborne/Solvent Paint	3.27	Broken Lane Line White (BLW6)	0.25	0.82		
EB IA 2	1422+00.00	1425+27.00	EB	Left	Waterborne/Solvent Paint	3.27	Edge Line Left Yellow (ELY6)	1.00	3.27		
EB IA 2	1422+00.00	1425+27.00	EB	Right	Waterborne/Solvent Paint	3.27	Edge Line Right White (ELW6)	1.00	3.27		
								TOTAL	7.36		

PROJECT DESCRIPTION - FREMONT 527						100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for WB IA 2 over Missouri River overflow, 2.2 miles west of I-29.						

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	7.36		
2	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-402	04-18-23	Work Within 15 ft of Traveled Way	
TC-418	04-18-23	Lane Closure on Divided Highway	
TC-433	10-17-17	Pavement Marking Operations	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities	C.7	
100-1D	Project Description	C.7	
105-4	Standard Road Plans	C.7	
108-22	Pavement Marking Line Types	C.7	
111-25	Index of Tabulations	C.7	
J Sheets			
108-23A	Traffic Control Plan	J.12	
108-26A	Staging Notes	J.12	

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
WB IA 2	1422+00.00	1425+27.00	WB	Center	Waterborne/Solvent Paint	3.27	Broken Lane Line White (BLW6)	0.25	0.82		
WB IA 2	1422+00.00	1425+27.00	WB	Left	Waterborne/Solvent Paint	3.27	Edge Line Left Yellow (ELY6)	1.00	3.27		
WB IA 2	1422+00.00	1425+27.00	WB	Right	Waterborne/Solvent Paint	3.27	Edge Line Right White (ELW6)	1.00	3.27		
								TOTAL	7.36		

FREMONT 527											
FILE NO. 32890	ENGLISH	DESIGN TEAM FOTH	FREMONT COUNTY				PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER C.7			

PROJECT DESCRIPTION - FREMONT 627						100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for EB IA 2 over Missouri River overflow, 1.6 miles west of I-29.						

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	4.70		
2	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-402	04-18-23	Work Within 15 ft of Traveled Way	
TC-418	04-18-23	Lane Closure on Divided Highway	
TC-433	10-17-17	Pavement Marking Operations	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities		C.8
100-1D	Project Description		C.8
105-4	Standard Road Plans		C.8
108-22	Pavement Marking Line Types		C.8
111-25	Index of Tabulations		C.8
J Sheets			
108-23A	Traffic Control Plan		J.13
108-26A	Staging Notes		J.13

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
EB IA 2	1456+50.00	1458+59.00	EB	Center	Waterborne/Solvent Paint	2.09	Broken Lane Line White (BLW6)	0.25	0.52		
EB IA 2	1456+50.00	1458+59.00	EB	Left	Waterborne/Solvent Paint	2.09	Edge Line Left Yellow (ELY6)	1.00	2.09		
EB IA 2	1456+50.00	1458+59.00	EB	Right	Waterborne/Solvent Paint	2.09	Edge Line Right White (ELW6)	1.00	2.09		
								TOTAL	4.70		

PROJECT DESCRIPTION - FREMONT 727					100-01D Modified
This project is for the roadway plans for the bridge repair and the associated traffic control for WB IA 2 over Missouri River overflow, 1.6 miles west of I-29.					

ESTIMATED PROJECT QUANTITES						100-01A Modified
Item No.	Item Code	Item	Unit	Total	As-Built Quantity	
1	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	4.70		
2	2528-8445110	TRAFFIC CONTROL	LS	0.125		

STANDARDS			105-04 Modified
The following Standards apply to construction work on this project.			
NUMBER	DATE	TITLE	
PM-110	10-15-24	Line Types	
SI-881	04-16-19	Special Signs for Workzones	
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)	
TC-402	04-18-23	Work Within 15 ft of Traveled Way	
TC-418	04-18-23	Lane Closure on Divided Highway	
TC-433	10-17-17	Pavement Marking Operations	

INDEX OF TABULATIONS			111-25 Modified
Tabulation	Tabulation Title	Sheet No.	
C Sheets			
100-1A	Estimated Project Quantities		C.9
100-1D	Project Description		C.9
105-4	Standard Road Plans		C.9
108-22	Pavement Marking Line Types		C.9
111-25	Index of Tabulations		C.9
J Sheets			
108-23A	Traffic Control Plan		J.14
108-26A	Staging Notes		J.14

PAVEMENT MARKING LINE TYPES											108-22 Modified
Road Identification	Station		Direction Of Travel	Side	Marking Type	Length	Line Type	Factor	Factored Quantity	Remarks	
	Begin	End				STA					
WB IA 2	1456+50.00	1458+59.00	WB	Center	Waterborne/Solvent Paint	2.09	Broken Lane Line White (BLW6)	0.25	0.52		
WB IA 2	1456+50.00	1458+59.00	WB	Left	Waterborne/Solvent Paint	2.09	Edge Line Left Yellow (ELY6)	1.00	2.09		
WB IA 2	1456+50.00	1458+59.00	WB	Right	Waterborne/Solvent Paint	2.09	Edge Line Right White (ELW6)	1.00	2.09		
								TOTAL	4.70		

FREMONT 727											
FILE NO. 32890	ENGLISH	DESIGN TEAM FOTH	FREMONT COUNTY				PROJECT NUMBER BRFN-000-T(461)--39-00	SHEET NUMBER C.9			

TRAFFIC CONTROL PLAN - PLYMOUTH 427		108-23A Modified
Traffic will be maintained on IA 12 over Indian Creek at all times. Construction will be performed in 2 stages of single lane closures per the J-sheets, according to Standard Road Plan TC-216, Lane Closures with Temporary Traffic Signals. See J-sheets for staging details. NB and SB traffic will share a single lane on the bridge.		

TEMPORARY TRAFFIC SIGNALS						108-28 Modified
No.	Location Station	Type			Remarks	
		One Lane Traffic	Haul Road	Intersection		
1	282+58.00	x			NB traffic	
1	288+12.00	x			SB traffic	

STAGING NOTES		108-26A Modified
STAGE 1 (Southbound Lane Construction)		
Traffic: 1. Close the SB lane of IA 12 and maintain one-lane alternating traffic in the NB lane using Standard Road Plan TC-216 (Temporary Traffic Signals).		
Construction: 1. Clean and prepare existing barrier rail adjacent to the SB lane. 2. Apply concrete sealer to prepared existing barrier rail. 3. Clean and prepare existing bridge deck, SB lane. 4. Apply High Molecular Weight Methacrylate (HMWM) sealer to existing bridge deck, SB lane		
STAGE 2 (Northbound Lane Construction)		
Traffic: 1. Close the NB lane of IA 12 and maintain one-lane alternating traffic in the SB lane using Standard Road Plan TC-216 (Temporary Traffic Signals).		
Construction: 1. Clean and prepare existing barrier rail adjacent to the NB lane. 2. Apply concrete sealer to prepared existing barrier rail. 3. Clean and prepare existing bridge deck, NB lane. 4. Apply HMWM sealer to existing bridge deck, NB lane		
FINAL		
Traffic: 1. Open all lanes to traffic. 2. Complete pavement marking operations in accordance with Standard Road Plan TC-233.		
Construction: 1. Complete final pavement markings.		

COORDINATED OPERATIONS		111-01 Modified
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.		
Project	Type Of Work	
STPN-012-2(052)–2J-75	Pavement Replacement	

PLYMOUTH 427

108-23A
Modified

TRAFFIC CONTROL PLAN - MONONA 227

Traffic will be maintained on IA 175 over Maple River at all times. Construction will be performed in 2 stages of single lane closures per the J-sheets, according to Standard Road Plan TC-216, Lane Closures with Temporary Traffic Signals. See J-sheets for staging details. EB and WB traffic will share a single lane on the bridge.

TEMPORARY TRAFFIC SIGNALS					
No.	Location Station	Type			Remarks
		One Lane Traffic	Haul Road	Intersection	
1	661+01.00	x			EB traffic
1	667+40.00	x			WB traffic

108-26A
Modified

STAGING NOTES

STAGE 1 (Westbound Lane Construction)

Traffic:

1. Close the WB lane of IA 175 and maintain one-lane alternating traffic in the EB lane using Standard Road Plan TC-216 (Temporary Traffic Signals).

Construction:

1. Clean and prepare existing barrier rail adjacent to the WB lane.
2. Apply concrete sealer to prepared existing barrier rail.
3. Clean and prepare existing bridge deck, WB lane.
4. Apply High Molecular Weight Methacrylate (HMWM) sealer to existing bridge deck, WB lane.

STAGE 2 (Eastbound Lane Construction)

Traffic:

1. Close the EB lane of IA 175 and maintain one-lane alternating traffic in the WB lane using Standard Road Plan TC-216 (Temporary Traffic Signals).

Construction:

1. Clean and prepare existing barrier rail adjacent to the EB lane.
2. Apply concrete sealer to prepared existing barrier rail.
3. Clean and prepare existing bridge deck, EB lane.
4. Apply HMWM sealer to existing bridge deck, EB lane

FINAL

Traffic:

1. Open all lanes to traffic.
2. Complete pavement marking operations in accordance with Standard Road Plan TC-233.

Construction:

1. Complete final pavement markings.

111-01
Modified

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type Of Work
STPN-175-1(119)~2J-67	SEAL COAT

MONONA 227

FILE NO. 32890

ENGLISH

DESIGN TEAM FOTH

MONONA COUNTY

PROJECT NUMBER BRFN-000-T(461)--39-00

SHEET NUMBER J.2

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108-23A
Modified

TRAFFIC CONTROL PLAN - POTTAWATTAMIE 527

Traffic will be maintained on EB US 6 over 40th Street, at the I-480/I-29 interchange at all times. Construction will be performed in 2 stages of lane closures. Temporary detours to reroute traffic to I-29 will be required for each stage. See detour routes and detailed staging plans in the J-sheets. Access to Exit 0 ramp (to 40th Street) will be maintained at all times. Lane closures should be scheduled in accordance with Tab 108-23B below. Stage 2 may be constructed in conjunction with Pottawattamie design 627.

108-26A
Modified

STAGING NOTES

STAGE 1 (Northbound I-29 ramp Construction)

Traffic:

1. Install NB I-29 detour route signage according to detour map layout.

2. Close the left lane of EB US 6/I-480 at the I-480/I-29 interchange. See included Staging Plans for details.

Construction:

1. Clean and prepare existing barrier rails adjacent to the north (I-480 Ramp F) lane.

2. Apply concrete sealer to prepared existing barrier rails.

3. Clean and prepare existing bridge deck, north (I-480 Ramp F) lane.

4. Apply High Molecular Weight Methacrylate (HMWM) sealer to existing bridge deck, north (I-480 Ramp F) lane.

5. Complete pavement marking operations in accordance with Standard Road Plan TC-433.

Traffic:

1. Open the left lane of EB US 6/I-480 at the I-480/I-29 interchange to traffic.

2. Remove NB I-29 detour route signage.

STAGE 2 (Southbound I-29 ramp Construction) - this Stage may be completed in conjunction with Pottawattamie design 627.

Traffic:

1. Install SB I-29 detour route according to detour map layout.

2. Close the right two lanes of EB US 6/I-480 at the I-480/I-29 interchange. See included Staging Plans for details.

Construction:

1. Clean and prepare existing barrier rails adjacent to the south (I-480 Ramp C) lanes.

2. Apply concrete sealer to prepared existing barrier rails.

3. Clean and prepare existing bridge deck, south (I-480 Ramp C) lanes.

4. Apply HMWM sealer to existing bridge deck, south (I-480 Ramp C) lanes.

5. Complete pavement marking operations in accordance with Standard Road Plan TC-433.

FINAL

Traffic:

1. Open all lanes to traffic.

2. Remove SB I-29 detour route signage.

TRAFFIC CONTROL CLOSURE TABLE(S)																																														108-23B Modified						
* This is to only be used in conjunction with Tabulation 108-23A "X" indicates times that lane closures are not allowed																																																				
	AM																								NOON	PM																										
	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30				
RESTRICTED TIMES FOR SINGLE LANE CLOSURE (STAGE 1):																																																				
SUN																																																				
MON																																																				
TUE																																																				
WED																																																				
THU																																																				
FRI																																																				
SAT																																																				
RESTRICTED TIMES FOR DOUBLE LANE CLOSURE (STAGE 2):																																																				
SUN															X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
MON														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
TUE														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WED														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
THU														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
FRI														X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
SAT																	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

FILE NO. 32890

ENGLISH

DESIGN TEAM FOTH

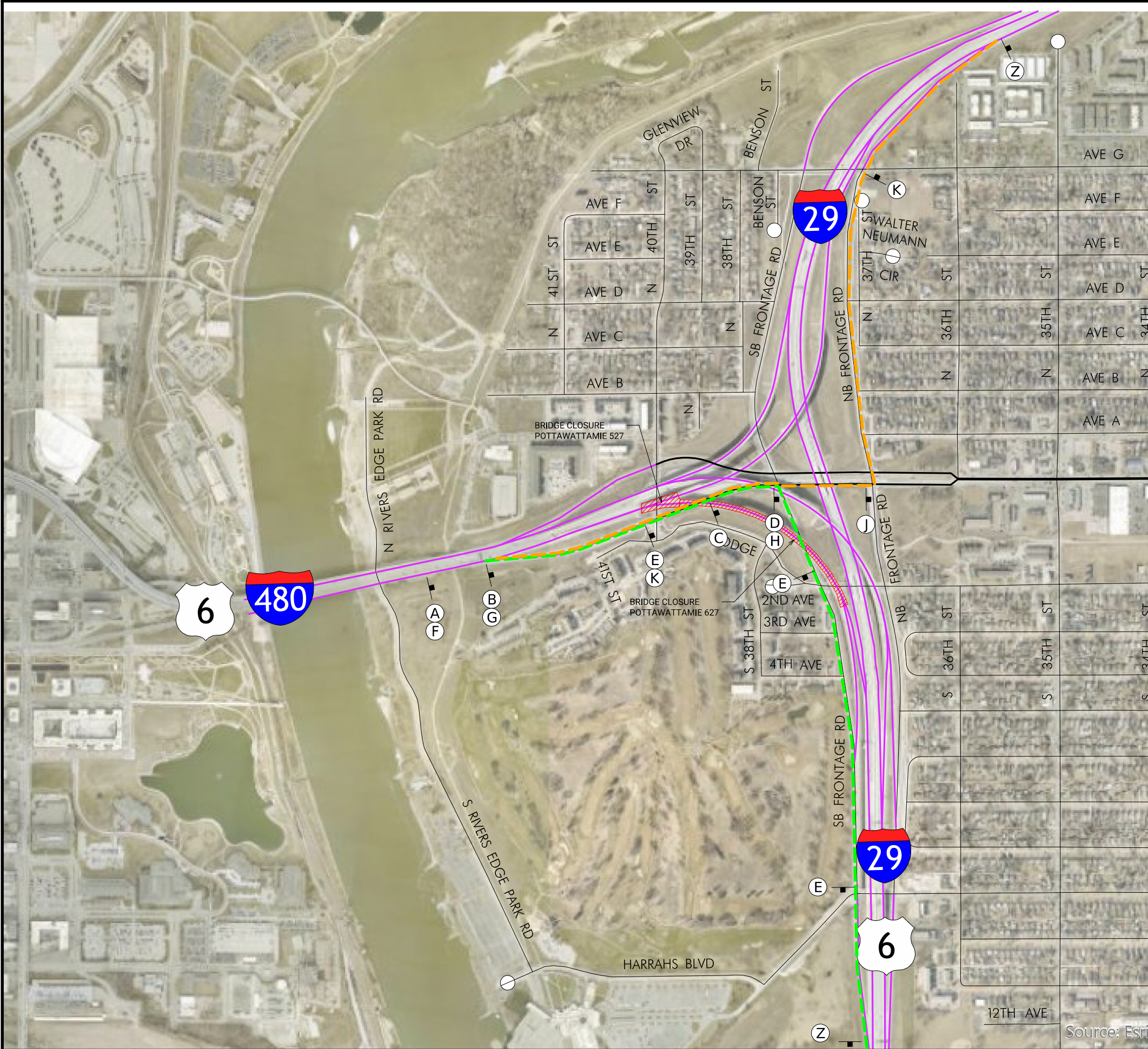
POTTAWATTAMIE COUNTY

PROJECT NUMBER BRFN-000-T(461)--39-00

SHEET NUMBER J.3

POTTAWATTAMIE
527

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POTTAWATTAMIE 527 & POTTAWATTAMIE 627 - PROPOSED DETOURS

DETOUR

SOUTH

DETOUR

EAST

M5-2

DETOUR

SOUTH

DETOUR

EAST

M6-2

DETOUR

SOUTH

DETOUR

EAST

M5-1

DETOUR

SOUTH

DETOUR

EAST

M6-1

DETOUR

SOUTH

DETOUR

EAST

M6-3

DETOUR

NORTH

M5-2

DETOUR

NORTH

M6-2

DETOUR

NORTH

M5-1

DETOUR

NORTH

M6-1

DETOUR

NORTH

M6-3

END
DETOUR

M4-8a
24" x 18"

TRAFFIC SIGN

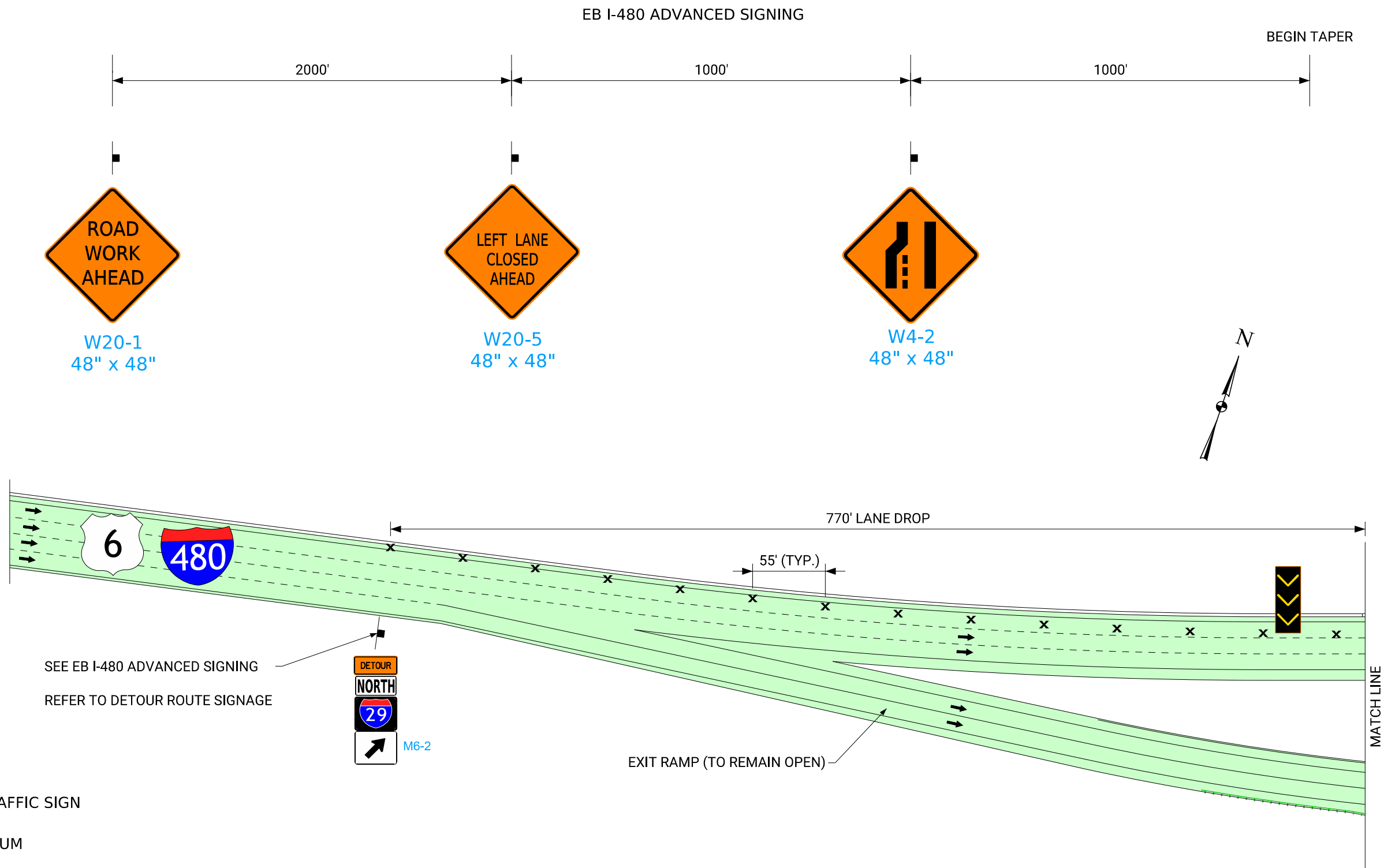
DETOUR ROUTE - NORTHBOUND I-29

DETOUR ROUTE - SOUTHBOUND I-29

WORK AREA

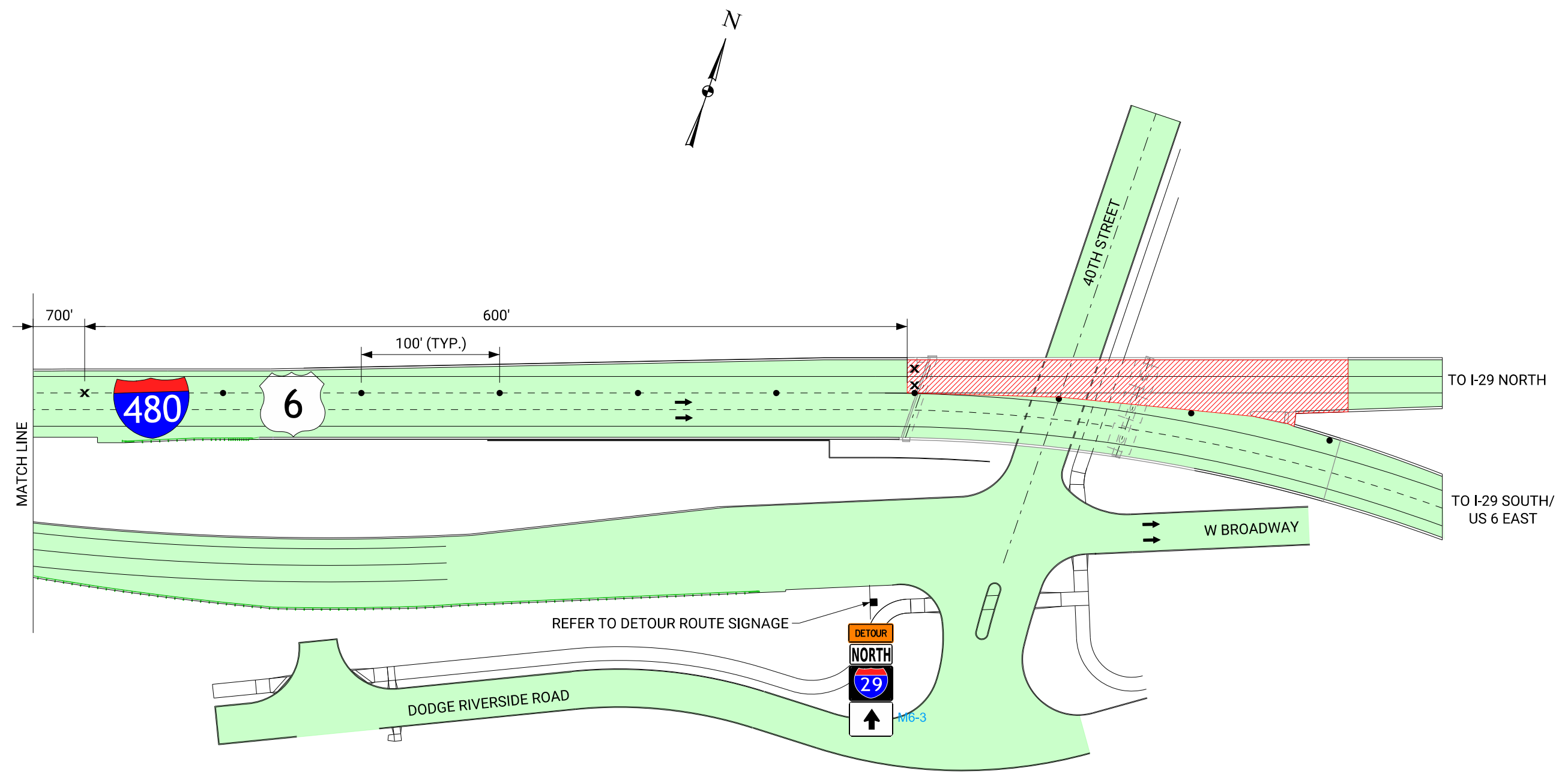
POTTAWATTAMIE 527

STAGE 1



POTTAWATTAMIE
527

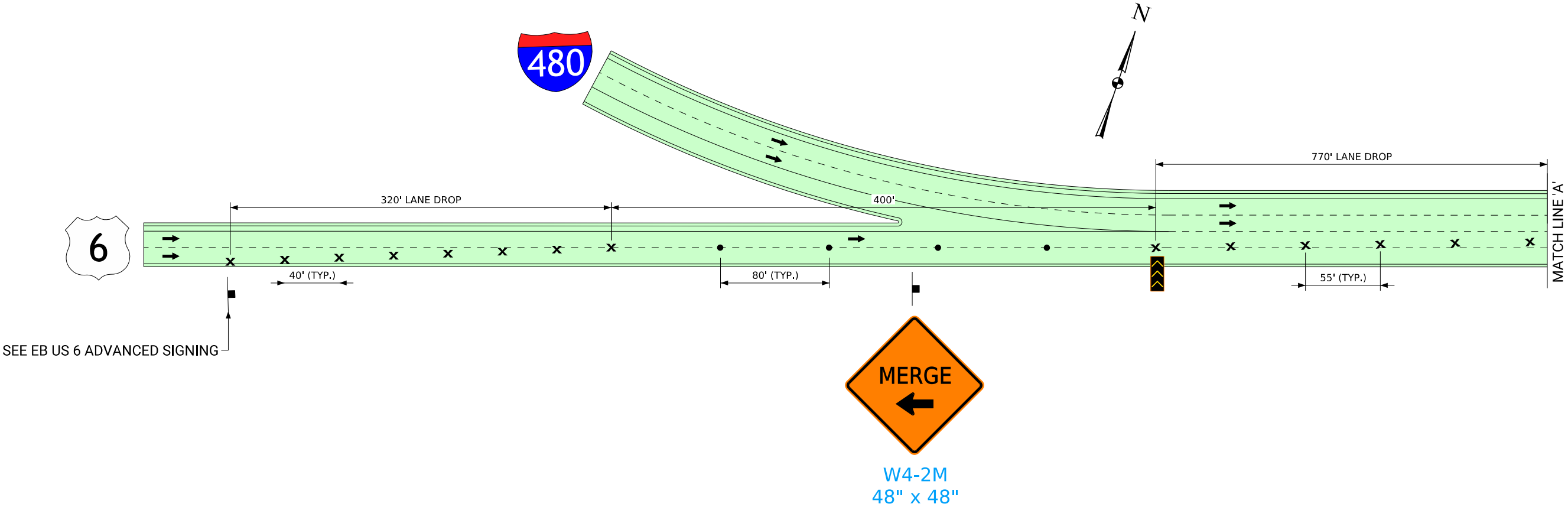
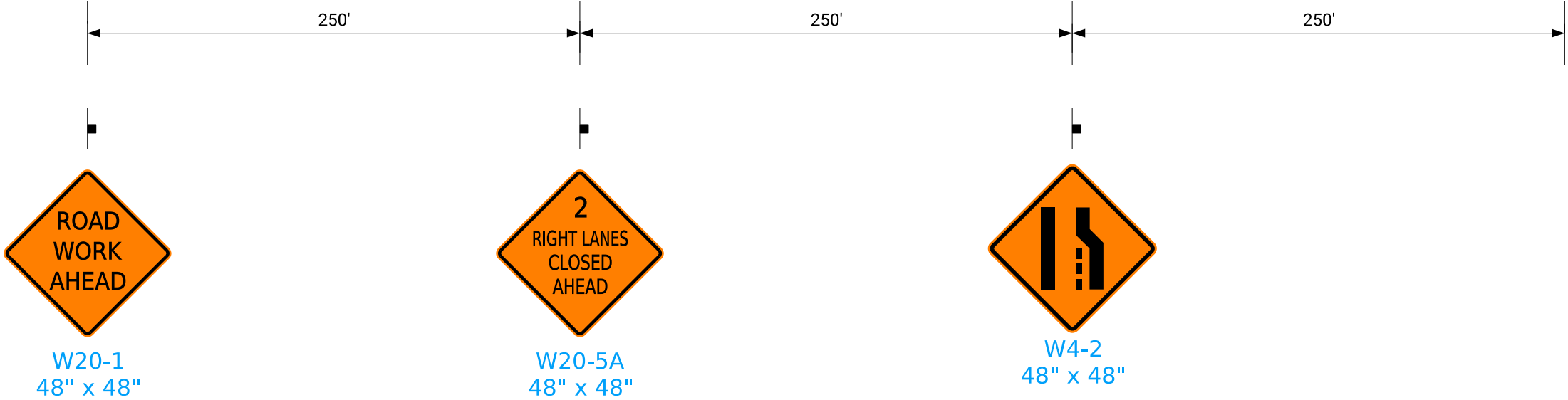
STAGE 1



STAGE 2

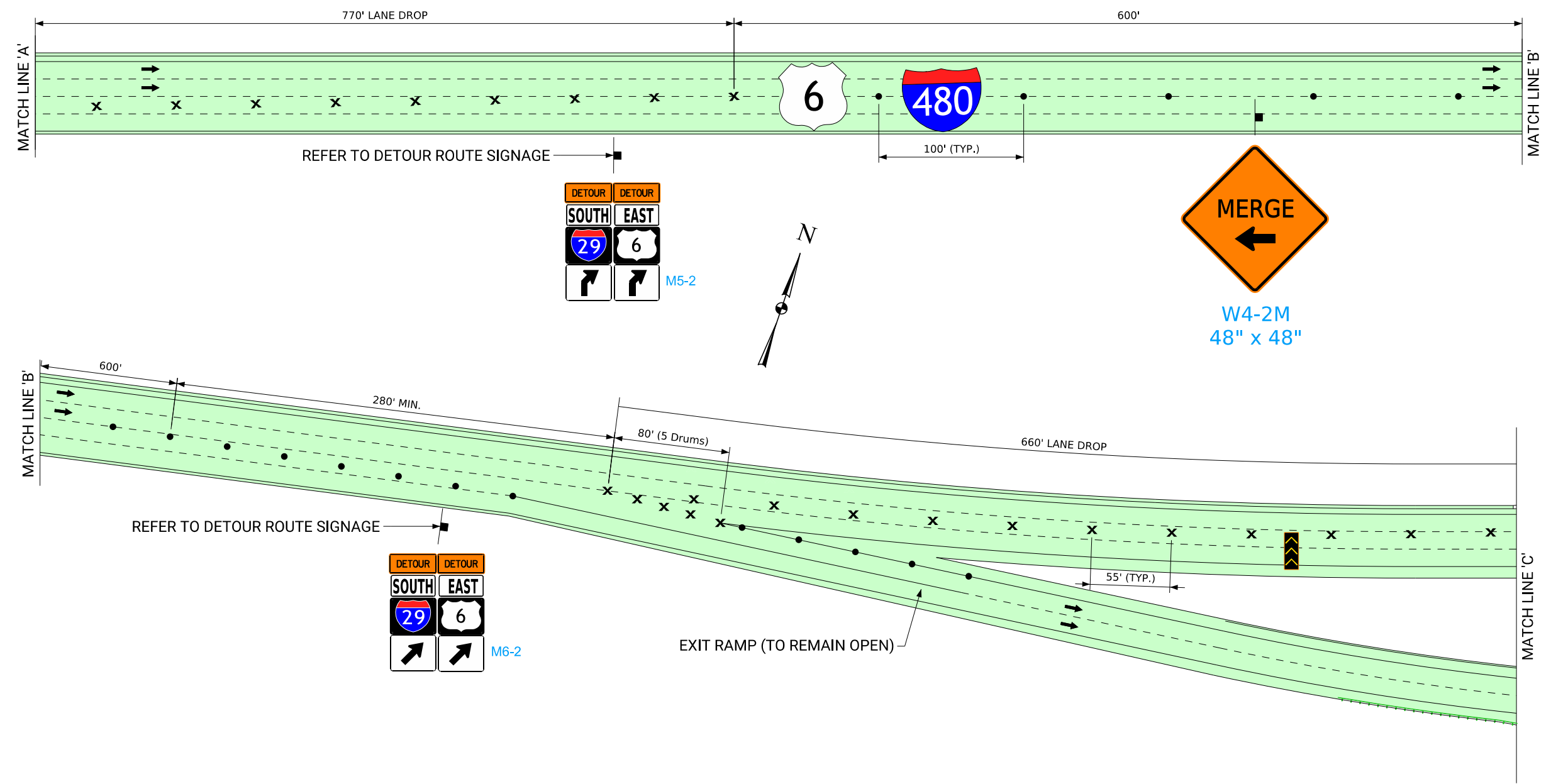
EB US 6 ADVANCED SIGNING

BEGIN TAPER



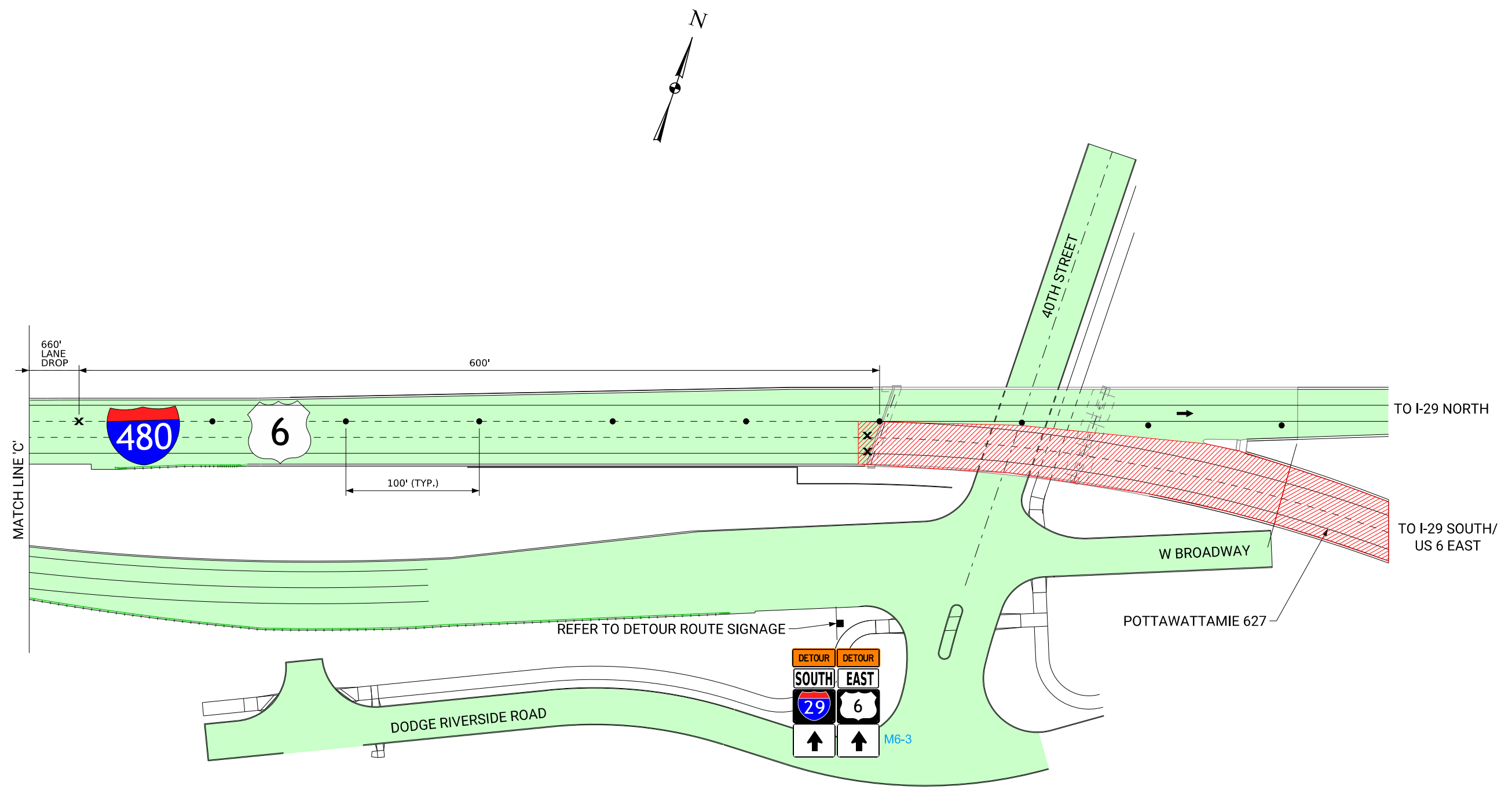
POTTAWATTAMIE
527

STAGE 2



POTTAWATTAMIE
527

STAGE 2



POTTAWATTAMIE
527

TRAFFIC CONTROL PLAN - POTTAWATTAMIE 627	108-23A Modified
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Traffic on EB US 6 to SB I-29 (I-480 Ramp C) over Frontage Road and 2nd Avenue at the I-480 and I-29 interchange shall be closed during construction. A Temporary detour to reroute traffic to SB I-29 will be required. See detour routes and detailed staging plans in the J-sheets for Pottawattamie design 527, Stage 2. Access to Exit 0 ramp (to 40th Street) will be maintained at all times. Lane closures shall be scheduled in accordance with Tab 108-23B below. This project may be constructed in conjunction with Pottawattamie 527, Stage 2.

TRAFFIC CONTROL CLOSURE TABLE(S)

* This is to only be used in conjunction with Tabulation 108-23A
 "X" indicates times that lane closures are not allowed

	AM																						NOON	PM																								
	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30

[illegible]

POTTAWATTAMIE
627

108-23A Modified	TRAFFIC CONTROL PLAN - FREMONT 427
Traffic will be maintained on eastbound IA 2 over Missouri River overflow at all times. Construction will be performed in 2 stages of single lane closures per the J-sheets. See J-sheets for staging details.	
Coordinate project timing and traffic control with Fremont designs 527, 627, and 727, as well as with Apple Jack Festival. 2026 dates: September 18-20 and September 26-27.	

108-26A Modified	STAGING NOTES
STAGE 1	
Traffic: <ul style="list-style-type: none">1. Close the left lane of EB IA 2 and maintain one-lane traffic in the right lane using Standard Road Plan TC-418.	
Construction: <ul style="list-style-type: none">1. Clean and prepare existing left barrier rail.2. Apply concrete sealer to left existing barrier rail.3. Clean and prepare existing bridge deck from left rail face to centerline of EB IA 2.4. Apply High Molecular Weight Methacrylate (HMWM) sealer to left lane of existing bridge deck.	
STAGE 2	
Traffic: <ul style="list-style-type: none">1. Close the right lane of EB IA 2 and maintain one-lane traffic in the left lane using Standard Road Plan TC-418.	
Construction: <ul style="list-style-type: none">1. Clean and prepare existing right barrier rail.2. Apply concrete sealer to right existing barrier rail.3. Clean and prepare existing bridge deck from right rail face to centerline of EB IA 2.4. Apply HMWM sealer to right lane of existing bridge deck.	
FINAL	
Traffic: <ul style="list-style-type: none">1. Open all lanes to traffic.2. Complete pavement marking operations in accordance with Standard Road Plan TC-433.	
Construction: <ul style="list-style-type: none">1. Complete final pavement markings.	

FREMONT 427

108-23A Modified
TRAFFIC CONTROL PLAN - FREMONT 527
Traffic will be maintained on westbound IA 2 over Missouri River overflow at all times. Construction will be performed in 2 stages of single lane closures per the J-sheets. See J-sheets for staging details.
Coordinate project timing and traffic control with Fremont designs 427, 627, and 727, as well as with Apple Jack Festival. 2026 dates: September 18-20 and September 26-27.

108-26A Modified
STAGING NOTES
STAGE 1 Traffic: 1. Close the left lane of WB IA 2 and maintain one-lane traffic in the right lane using Standard Road Plan TC-418. Construction: 1. Clean and prepare existing left barrier rail. 2. Apply concrete sealer to left existing barrier rail. 3. Clean and prepare existing bridge deck from left rail face to centerline of WB IA 2. 4. Apply High Molecular Weight Methacrylate (HMWM) sealer to left lane of existing bridge deck. STAGE 2 Traffic: 1. Close the right lane of WB IA 2 and maintain one-lane traffic in the left lane using Standard Road Plan TC-418. Construction: 1. Clean and prepare existing right barrier rail. 2. Apply concrete sealer to right existing barrier rail. 3. Clean and prepare existing bridge deck from right rail face to centerline of WB IA 2. 4. Apply HMWM sealer to right lane of existing bridge deck. FINAL Traffic: 1. Open all lanes to traffic. 2. Complete pavement marking operations in accordance with Standard Road Plan TC-433. Construction: 1. Complete final pavement markings.

FREMONT 527

TRAFFIC CONTROL PLAN - FREMONT 627	108-23A Modified
Traffic will be maintained on eastbound IA 2 over Missouri River overflow at all times. Construction will be performed in 2 stages of single lane closures per the J-sheets. See J-sheets for staging details.	
Coordinate project timing and traffic control with Fremont designs 427, 527, and 727, as well as with Apple Jack Festival. 2026 dates: September 18-20 and September 26-27.	
Maintain traffic at the intersection with 195th Avenue at all times.	

STAGING NOTES	108-26A Modified
STAGE 1	
Traffic: <ul style="list-style-type: none">1. Close the left lane of EB IA 2 and maintain one-lane traffic in the right lane using Standard Road Plan TC-418.	
Construction: <ul style="list-style-type: none">1. Clean and prepare existing left barrier rail.2. Apply concrete sealer to left existing barrier rail.3. Clean and prepare existing bridge deck from left rail face to centerline of EB IA 2.4. Apply High Molecular Weight Methacrylate (HMWM) sealer to left lane of existing bridge deck.	
STAGE 2	
Traffic: <ul style="list-style-type: none">1. Close the right lane of EB IA 2 and maintain one-lane traffic in the left lane using Standard Road Plan TC-418.	
Construction: <ul style="list-style-type: none">1. Clean and prepare existing right barrier rail.2. Apply concrete sealer to right existing barrier rail.3. Clean and prepare existing bridge deck from right rail face to centerline of EB IA 2.4. Apply HMWM sealer to right lane of existing bridge deck.	
FINAL	
Traffic: <ul style="list-style-type: none">1. Open all lanes to traffic.2. Complete pavement marking operations in accordance with Standard Road Plan TC-433.	
Construction: <ul style="list-style-type: none">1. Complete final pavement markings.	

FREMONT 627

108-23A Modified
TRAFFIC CONTROL PLAN - FREMONT 727
Traffic will be maintained on westbound IA 2 at all times over Missouri River overflow. Construction will be performed in 2 stages of single lane closures per the J-sheets. See J-sheets for staging details.
Coordinate project timing and traffic control with Fremont designs 427, 527, and 627, as well as with Apple Jack Festival. 2026 dates: September 18-20 and September 26-27.
Maintain traffic at the intersection with 195th Avenue at all times.

108-26A Modified
STAGING NOTES
STAGE 1
Traffic: 1. Close the left lane of WB IA 2 and maintain one-lane traffic in the right lane using Standard Road Plan TC-418.
Construction: 1. Clean and prepare existing left barrier rail. 2. Apply concrete sealer to left existing barrier rail. 3. Clean and prepare existing bridge deck from left rail face to centerline of WB IA 2. 4. Apply High Molecular Weight Methacrylate (HMWM) sealer to left lane of existing bridge deck.
STAGE 2
Traffic: 1. Close the right lane of WB IA 2 and maintain one-lane traffic in the left lane using Standard Road Plan TC-418.
Construction: 1. Clean and prepare existing right barrier rail. 2. Apply concrete sealer to right existing barrier rail. 3. Clean and prepare existing bridge deck from right rail face to centerline of WB IA 2. 4. Apply HMWM sealer to right lane of existing bridge deck.
FINAL
Traffic: 1. Open all lanes to traffic. 2. Complete pavement marking operations in accordance with Standard Road Plan TC-433.
Construction: 1. Complete final pavement markings.