

Date: January 24, 2019

To: Beth Cannestra, PE
Director, Bureau of Project Development
Attn: David Stertz, PE

From: Al Rommel, PE
Northeast Region Project Development Chief

Subject: ABBREVIATED DESIGN STUDY REPORT
Project I.D. 1009-30-14
Various Highways
Brown, Door, Fond du Lac, Manitowoc, Marinette, Outagamie, Sheboygan, Winnebago,
Columbia, Dane, Green, Sauk Counties

Having considered the economic and social effects of this project, its impact on the environment, and its consistency with the goals of community planning, we request your approval of the attached design study report.

Region Project Development Chief

Date

Concur:

Bureau of Project Development
Project Services Chief

Date

ABBREVIATED STUDY REPORT

Project I.D. 1009-30-14

Various Highways

Brown, Door, Fond du Lac, Manitowoc, Marinette, Outagamie, Sheboygan, Winnebago,
Columbia, Dane, Green, Sauk Counties

ABBREVIATED DESIGN STUDY REPORT

1.0 Project Description, Need and General Information

1.1 Federal Oversight Project (Yes or No): No

1.2 Project Length and Termini

Project Length: N/A

Termini/Limits:

Southwest and Northeast Regions (Brown, Door, Fond du Lac, Manitowoc, Marinette, Outagamie, Sheboygan, Winnebago, Columbia, Dane, Green, and Sauk Counties). Note the counties on the cover sheet do not match FIIPS.

1.3 Functional Classification/Access Control

Roadway Name	Functional Class (Principal or Minor Arterial, Collector or Local)	Surrounding Development Type? (Rural, Urban or Transitional)	Corridors 2020 or Backbone (No or State Which)	NHS Route (Yes or No)	Long Truck Route (No or State Federal or State)	Access Control Tier	On Ped Trans. Plan (Yes or No)	On Bike Trans. Plan (Yes or No)
USH 12	Principal Arterial	Urban	No	No	No	Purchased Control	-	-
Hillman Road	Local	Urban	No	No	No	-	-	-
USH 14	Principal Arterial	Urban	Connector	Yes	Federal	84.25 Admin. Control	-	-
Deming Way	Local	Urban	No	No	No	-	-	-
STH 76	Principal Arterial	Transitional	No	Yes	No	Intermittently Controlled	-	-
CTH BD	Local	Transitional	No	No	No	-	-	-
STH 13	Principal Arterial	Urban	No	No	No	Purchased Control	-	-
STH 11	Principal Arterial	Rural	Connector	Yes	Federal	Purchased Control	-	-
USH 18/USH 151	Principal Arterial	Urban	Backbone	Yes	Federal	-	-	-
STH 113	Principal Arterial	Urban	No	Yes	No	-	-	-
USH 12/18	Principal Arterial	Urban	Backbone	Yes	Federal	Freeway	-	-
East Washington Avenue	Principal Arterial	Urban	No	Yes	No	Purchased Control	-	-
Schroeder Road	Local	Urban	No	No	No	-	-	-
USH 12/14	Principal Arterial	Urban	Backbone	Yes	Federal	Freeway	-	-
USH 51	Principal Arterial	Urban	No	No	Federal	-	-	-

IH 39	Principal Arterial	Rural	Backbone	Yes	No	Freeway	-	-
STH 114	Principal Arterial	Urban	No	Yes	No	Intermittently Controlled	-	-
USH 45	Principal Arterial	Transitional	No	Yes	No	Intermittently Controlled	-	-
IH 41	Principal Arterial	Urban	Backbone	Yes	Federal	Freeway	-	-
STH 21	Principal Arterial	Urban	No	Yes	No	Purchased Control	-	-
STH 42	Principal Arterial	Transitional	No	No	State	Purchased Control	-	-
STH 47	Principal Arterial	Urban	Connector	Yes	Federal	-	-	-
USH 41	Principal Arterial	Urban	Backbone	Yes	Federal	Intermittently Controlled	-	-
USH 141	Principal Arterial	Rural	Connector	Yes	Federal	84.25 Admin. Control	-	-
Marshall Street	Local	Urban	No	No	No	-	-	-
Custer Street	Local	Urban	No	No	No	-	-	-
STH 32	Principal Arterial	Transitional	Connector	Yes	State	Purchased Control	-	-
CTH D	Local	Rural	No	No	No	-	-	-
Lineville Road	Local	Transitional	No	No	No	-	-	-
CTH EB	Local	Urban	No	No	No	-	-	-
STH 29	Principal Arterial	Urban	No	Yes	No	-	-	-

Comments:

Some of the information varies by the segment of highway listed above for each structure. Bike/ped plans were not investigated for this project based on the scope of work.

1.4 Project Purpose and Need

Recent structure inspections identified needed repairs to various sign structures around the state. These structures are being repaired to extend their useful life and reduce future maintenance needs.

2.0 Present Facility

2.1 Posted Speed

Roadway or Roadway Segment	Posted Speed	Advisory Speed
Varies by highway and segment	Varies	Varies

2.2 Geometrics

2.2.3 Vertical Clearance Outside of Desirable or Minimum Design Standards*

Location (Stationing, Overpass Structures, etc.)	Vertical Clearance*
N/A	N/A

* Controlling Criteria

Comments:

Vertical clearances were not investigated for this project. A few structures will have their vertical heights adjusted but the remaining are assumed to meeting standards.

2.4 Cross Section

- Number of roadways
- Number of lanes
- Median width
- Lane width*
- Shoulder width* (Total and Paved or Curb & Gutter)
- Bicycle facility type
- Sidewalk and curb ramps
- Cross slope*
- Super-elevation*
- Horizontal clearance*
- Clear zone
- Vertical clearance*
- Side-slopes and ditch sections

* Controlling Criteria

See preliminary plans for each structure

2.5 Pavement Structure/Condition

Roadway	Pavement Types and Thicknesses	Physical Description
N/A	N/A	N/A

2.7 Structures

Existing Structure I.D. #	Feature Crossed	Structure Type	Sufficiency Rating	Clear Roadway Width*	Railing Type	Structurally Deficient or Functionally Obsolete*	Inventory Load Rating*
S-56-1057-0006	USH 12 WB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-56-1057-0004	Hillman Road EB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-56-1042-0006	USH 12 EB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-56-499-0006	USH 12 EB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-56-499-0002	USH 12 WB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-13-900-0004	USH 14 WB	Traffic Signal	N/A	N/A	N/A	N/A	N/A

		Monotube					
S-13-900-0003	USH 14 EB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-13-900-0002	Deming Way NB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-13-900-0001	Deming Way SB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-70-158	STH 76 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-56-017	CTH BD EB/WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-56-015	CTH BD EB/WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-56-008	STH 12 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-56-007	USH 12 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-56-006	STH 13 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-56-005	STH 13 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-53-042	STH 11 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-377	USH 18/151 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-288	STH 113 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-283	USH 12/18	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-282	USH 12	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-280	USH 12/18	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-279	USH 12 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-258	USH 12 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-248	USH 12/14 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-205	East Washington Ave SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-202	Schroeder Rd EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-153	USH 12 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-071	USH 12/18 WB	Sign	N/A	N/A	N/A	N/A	N/A

		Structure					
S-13-064	USH 12/18 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-061	USH 12/14/18 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-060	USH 12/14/18 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-040	USH 12/18 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-037	USH 12/18 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-13-036	USH 12 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-11-021	USH 51 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-11-014	IH 39 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-180	STH 114	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-111	USH 45	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-068	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-059	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-056	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-053	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-052	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-048	STH 21 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-70-047	STH 21 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-59-035	STH 42 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-59-033	STH 42 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-44-106	STH 47 SB	Traffic Signal Monotube	N/A	N/A	N/A	N/A	N/A
S-44-032	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-38-011	USH 41	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-38-008	USH 141 SB	Sign	N/A	N/A	N/A	N/A	N/A

		Structure					
S-38-007	USH 141 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-36-024	Marshall St	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-36-023	Custer St	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-36-015	STH 32 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-36-014-000A	STH 32 EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-20-040	CTH D WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-20-023	IH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-20-022	IH 41 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-15-018	STH 42 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-15-017	STH 42 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-285	Lineville Rd	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-270	CTH EB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-253	IH 41 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-252	STH 29 WB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-212	Lineville Rd	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-188	IH 41 NB	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-176	IH 41	Sign Structure	N/A	N/A	N/A	N/A	N/A
S-05-108	USH 41 SB	Sign Structure	N/A	N/A	N/A	N/A	N/A

* Controlling Criteria

Comments:

Since these are all either sign structures or traffic signal monotubes the information for bridges does not apply.

2.8 Utilities

Utility Name	Type of Utility	General Location	Underground /Overhead/ Both
N/A	N/A	N/A	N/A

Comments:

Project does not follow Trans 220

2.9 Railroad Crossings

Location (Sta.)	Railroad Name	No. of Tracks	Function	Crossing Type
N/A	N/A	N/A	N/A	N/A

Comments:

No railroad crossings present

2.11 Unique Project Features

None. This is a maintenance level project.

3.0 Traffic Information

3.1 Traffic Volumes/Conditions

3.1.1 Existing Average Annual Daily Traffic (AADT) Volume

Varies by highway

3.1.2 Highway Capacity Analysis

Location (Roadway Segment or Intersection)	Existing Level of Service	Construction Year Level of Service	Construction Year + 10 Level of Service
N/A	N/A	N/A	N/A

Comments:

Does not apply to project

3.2 Crash Analysis

3.2.1 Project Crash Information

			Number and Severity of Crashes			
Roadway	Crash Rate (1) (Year)	Statewide Crash Rate (1) (Year)	Fatal	Injury	Property Damage	Total No. Crashes
N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) Crash rate based on 100 million vehicles miles traveled (100 MVMT)

Comments:

Does not apply to project

4.0 Proposed Design Criteria

4.3 Design Criteria Outside Desirable Standards

The base for sign structure S-70-0180 will be replaced with this project. Based on structure standards a new foundation should result in a minimum 17.0' clearance. Because the structure is in an urban setting near an intersection vehicle induced winding loading is not a concern. The base will be replaced in kind and exceed the legal load height requirements (> 13'-6").

4.4 Exceptions to Standards

None

4.4.1 Safety Screening Analysis (SSA) and Programmatic Exception to Standards (FDM 11-1-40) 3R projects and Preventive Maintenance (PM) Group I and Group II Pavement Strategy Projects (FDM 3-5 Exhibit 5.1)

N/A

National Highway System (NHS) Roadway - Substandard Geometric Features Covered by a Programmatic Exception to Standards (3R & PM Projects)**

HS Roadway Name: _____

Location				Feature Type	Magnitude of Variance
Sta.	to Sta.	RP	to RP		
N/A	N/A	N/A	N/A	N/A	N/A

** This documentation is required only for 3R projects on the National Highway System.

Comments:

N/A

Substandard Geometric Features NOT Covered by a Programmatic Exception to Standards and NOT Corrected as Part of PM Project (PM Group I and Group II Pavement Strategy Projects)

Roadway Name: _____

Location				Feature Type	Magnitude of Variance	Operational Improvements
Sta.	to Sta.	RP	to RP			
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Construction is required for safety improvements or to correct the above sub-standard features. The region will either consider this construction for HSIP funding or address this construction with future programming. Operational improvements will be incorporated into the PM project at these locations that are consistent with the scope of the preventive maintenance work and appropriate based on the analysis of crash types.

Comments:

N/A

5.0 Proposed Design Improvement

5.1 Improvement Type

Repair and replacement of sign structures in the SW and NE Regions.

Legislative Subprogram: 305 – Highway maintenance, repair and traffic operations

Improvement Concept: TOS – STH traffic operations signing

5.5 Cross Section/Pavement Structure

- Number of roadways
- Number of lanes
- Median width/type
- Lane width/type* (Driving, Parking, Bike Lane, etc.)
- Shoulder width* (Total & Paved or Curb & Gutter)
- Bike facilities
- Pedestrian facilities / sidewalk
- Cross slope*
- Super-elevation*
- Horizontal clearance*
- Vertical clearance*
- Pavement structure
- Clear zone

- ### * Controlling Criteria

5.6 Street Lighting

Location	Type	Break-away Requirements
N/A	N/A	N/A

5.7 Structures

5.7.1 Bridge Structures

Structure I.D. #	Location	Structure Type	Length	Clear Width*	No. of Spans	Vertical Clearance*	Horizontal Clearance*
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Proposed Improvement: N/A						

* Controlling Criteria

Comments:

There are no bridges on this project.

5.7.2 Box Culverts and Multiple Pipe Structures

Structure I.D. #	Location	Type	Length	No. Pipes
N/A	N/A	N/A	N/A	N/A
	Proposed Improvement: N/A			

Comments:

There are no box culverts or pipe structures on this project.

5.7.3 Retaining Walls and Noise Barrier Structures

Structure I.D. #	Location	Type	Length	Height
N/A	N/A	N/A	N/A	N/A
	Proposed Improvement: N/A			

Comments:

There are no retaining walls or noise barrier structures on this project.

5.7.4 Sign Bridge Structures

[illegible]

S-56-499-0006	USH 12 EB	Cantilever mast arm	41.0'	N/A	18.4'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-56-499-0002	USH 12 WB	Cantilever mast arm	50.0'	N/A	19.1'	N/A	N/A
	Proposed Improvement: Tension anchor rod, replace sign bridge ID plaque						
S-13-900-0004	USH 14 WB	Cantilever mast arm	36.0'	N/A	17.6'	N/A	N/A
	Proposed Improvement: Tension anchor rod, secure/replace post cap, replace sign bridge ID plaque						
S-13-900-0003	USH 14 EB	Cantilever mast arm	46.5'	N/A	18.0'	N/A	N/A
	Proposed Improvement: Tension anchor rod, secure/replace post cap, replace sign bridge ID plaque						
S-13-900-0002	DEMING WAY NB	Cantilever mast arm	36.0'	N/A	17.9'	N/A	N/A
	Proposed Improvement: Tension anchor rod, secure/replace post cap, replace sign bridge ID plaque						
S-13-900-0001	DEMING WAY SB	Cantilever mast arm	36.0'	N/A	19.4'	N/A	N/A
	Proposed Improvement: Tension anchor rod, secure/replace post cap, replace sign bridge ID plaque						
S-56-017	CTH BD EB/WB	2-chord full span truss	106.0'	N/A	18.6'	N/A	N/A
	Proposed Improvement: Slotted hole repair on sign support bracket, replace u-bolt						
S-56-015	CTH BD EB/WB	2-chord full span truss	71.3'	N/A	18.3'	N/A	N/A
	Proposed Improvement: Slotted hole repair on sign support bracket						
S-56-008	STH 12 NB	4-chord full span truss	78.6'	N/A	19.9'	62.6'	N/A
	Proposed Improvement: Replace sign panel connector						
S-56-007	USH 12 WB	Monotube full span	60.2'	N/A	19.6'	50.7'	N/A
	Proposed Improvement: Replace sign connection clamp, replace sign bridge ID plaque						
S-56-006	STH 13 NB	Monotube full span	53.6'	N/A	19.8'	49.6'	N/A
	Proposed Improvement: Replace sign connection clamp, replace sign bridge ID plaque						
S-56-005	STH 13 WB	Monotube full span	55.0'	N/A	20.5'	39.4'	N/A
	Proposed Improvement: Remove fill and regrade, replace sign connection clamp, replace sign bridge ID plaque						
S-13-377	USH 18/151 WB	4-chord full span truss	66.3'	N/A	21.9'	56.4'	N/A
	Proposed Improvement: Replace type II sign support bracket						
S-13-288	STH 113 SB	Monotube full span	66.5'	N/A	17.8'	48.6'	N/A

S-13-040	USH 12/18 WB	4-chord cantilever truss	32.0'	N/A	18.0'	N/A	N/A
	Proposed Improvement: Remove grout pad						
S-13-037	USH 12/18 EB	4-chord cantilever truss	32.0'	N/A	19.3'	N/A	N/A
	Proposed Improvement: Remove grout pad, replace handrail hinge pins, replace safety chain, replace conduit plug						
S-13-036	USH 12 WB	4-chord cantilever truss	30.0'	N/A	18.3'	N/A	N/A
	Proposed Improvement: Remove grout pad, replace handrail hinge pins, replace safety chain, replace conduit plug						
S-11-021	USH 51 NB	Cantilever mast arm	23.8'	N/A	16.4'	N/A	N/A
	Proposed Improvement: Tighten connection bolt						
S-11-014	IH 39 SB	4-chord full span truss	70.0'	N/A	20.4'	51.8'	N/A
	Proposed Improvement: Remove grout pad, replace sign bridge ID plaque						
S-70-180	STH 114	Cantilever mast arm	35.0'	N/A	16.9'	N/A	N/A
	Proposed Improvement: Replace foundation						
S-70-158	STH 76	Cantilever mast arm	46.5'	N/A	18.5'	N/A	N/A
	Proposed Improvement: Replace rodent screen						
S-70-111	USH 45	Cantilever mast arm	25.0'	N/A	18.5'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-70-068	IH 41 SB	4-chord cantilever truss	28.0'	N/A	20.7'	N/A	N/A
	Proposed Improvement: Signs type II reflective H, removing signs type II						
S-70-059	IH 41 SB	4-chord cantilever truss	22.3'	N/A	21.8'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-70-056	IH 41 SB	4-chord cantilever truss	25.3'	N/A	20.9'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-70-053	IH 41 SB	4-chord cantilever truss	25.0'	N/A	19.9'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-70-052	IH 41 SB	4-chord cantilever truss	27.0'	N/A	19.9'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-70-048	STH 21 WB	Cantilever mast arm	27.0'	N/A	15.7'	N/A	N/A

	Proposed Improvement: Replace rodent screen, replace conduit plug, adjust vertical clearance						
S-70-047	STH 21 EB	Cantilever mast arm	28.0'	N/A	19.0'	N/A	N/A
	Proposed Improvement: Replace rodent screen, replace conduit plug						
S-59-035	STH 42 WB	Cantilever mast arm	30.5'	N/A	19.5'	N/A	N/A
	Proposed Improvement: Signs type II reflective H, replace type II sign support bracket						
S-59-033	STH 42 WB	Cantilever mast arm	27.5'	N/A	19.2'	N/A	N/A
	Proposed Improvement: Replace sign connection hardware						
S-44-106	STH 47 SB	Cantilever mast arm	40.0'	N/A	18.3'	N/A	N/A
	Proposed Improvement: Secure/replace post cap						
S-44-032	IH 41 SB	4-chord cantilever truss	31.0'	N/A	20.3'	N/A	N/A
	Proposed Improvement: Tension structural connection bolt						
S-38-011	USH 41	Cantilever mast arm	30.0'	N/A	18.8'	N/A	N/A
	Proposed Improvement: Replace sign connection clamp						
S-38-008	USH 141 SB	4-chord cantilever truss	28.0'	N/A	19.5'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-38-007	USH 141 NB	4-chord cantilever truss	28.0'	N/A	18.3'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-36-024	MARSHALL ST	Monotube full span	42.0'	N/A	19.3'	38.0'	N/A
	Proposed Improvement: Replace sign connection clamp						
S-36-023	CUSTER ST	Monotube full span	42.0'	N/A	19.6'	38.0'	N/A
	Proposed Improvement: Replace sign connection clamp						
S-36-015	STH 32 WB	Cantilever mast arm	34.2'	N/A	19.4'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-36-014-000A	STH 32 EB	Cantilever mast arm	29.0'	N/A	17.9'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-20-040	CTH D WB	Cantilever mast arm	25.0'	N/A	16.9'	N/A	N/A
	Proposed Improvement: Adjust vertical clearance						
S-20-023	IH 41 SB	4-chord cantilever truss	27.0'	N/A	24.1'	N/A	N/A

	Proposed Improvement: Replace end cap						
S-20-022	IH 41 NB	4-chord cantilever truss	27.0'	N/A	22.9'	N/A	N/A
	Proposed Improvement: Tension anchor rod, replace end cap						
S-15-018	STH 42 SB	Cantilever mast arm	28.4'	N/A	19.3'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-15-017	STH 42 NB	Cantilever mast arm	28.0'	N/A	19.2'	N/A	N/A
	Proposed Improvement: Tension anchor rod						
S-05-285	LINEVILLE RD	2-chord full span truss	104.0'	N/A	18.7'	29.5'	N/A
	Proposed Improvement: Tighten connection bolt						
S-05-270	CTH EB	2-chord full span truss	102.3'	N/A	18.9'	28.5'	N/A
	Proposed Improvement: Tension anchor rod						
S-05-253	IH 41 NB	2-chord full span truss	53.0'	N/A	19.0'	66.5'	N/A
	Proposed Improvement: Tension anchor rod						
S-05-252	STH 29 WB	2-chord full span truss	68.0'	N/A	18.8'	54.0'	N/A
	Proposed Improvement: Tension anchor rod						
S-05-212	LINEVILLE RD	2-chord full span truss	108.0'	N/A	19.0'	N/A	N/A
	Proposed Improvement: Tighten connection bolt						
S-05-188	IH 41 NB	Butterfly	32.0'	N/A	20.4'	N/A	N/A
	Proposed Improvement: Adjust vertical clearance						
S-05-176	IH 41	Butterfly	31.0'	N/A	19.9'	88.8'	N/A
	Proposed Improvement: Adjust vertical clearance						
S-05-108	USH 41 SB	4-chord full span truss	84.7'	N/A	18.5'	76.2'	N/A
	Proposed Improvement: Replace rodent screen, replace end cap, replace conduit plug						

* Controlling Criteria

Comments:

5.7.5 Tunnel Structures

Structure I.D. #	Location	Type (Veh., Ped., Bicycle, etc.)	Length	Lighting Type	Vertical Clearance*	Horizontal Clearance*
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Safety Features				Coordination with Local Emergency Responders		
N/A				N/A		
Proposed Improvement:						N/A

* Controlling Criteria

Comments:

There are no tunnel structures on this project.

5.8 Permanent Traffic Control

Will permanent signs be installed (Yes or No)? **Yes**

Are non-standard sign layout details needed (Yes or No)? **No**

Comments:

Type II signs are proposed to be replaced.

5.9 Transportation Management Plan

See the Transportation Management Plan Attachment

5.10 Safety Enhancements/Mitigation Measures

N/A

5.12 Utilities

Is Project Trans 220 Utility Project (Yes or No)? **No**

Describe any special design features to accommodate utilities:

N/A

Major Utility Agreements:

N/A

Comments:

Due to the accelerated schedule for this project and the lack of ground disturbance this project will not follow Trans 220.

5.13 Railroads

Describe improvements to Railroad Facilities:

N/A

Railroad Agreements:

N/A

Comments:

No work will occur on or above railroad lines. Railroad insurance may be required for lane/shoulder closures across active lines. S-13-900-0001, S-13-282, S-13-280, S-13-037, S-13-036, S-38-011, S-05-253, S-05-188 have the potential to have lane/shoulder closures across railroad tracks.

5.14 Financing and Scheduling

Construction I.D.	Cost Estimate	Type of Funding			Proposed Timeframe for Construction	Ties to Other Work or Projects	Incentive / Disincentive Clauses (Yes or No)
		% Fed.	% State	% Local			
1009-30-15	\$135,000	80	20	0	Summer/Fall 2019	No	Yes
1009-30-16	\$270,000	80	20	0	Summer Fall 2019	No	Yes

Describe Incentive/Disincentive Clauses:

Lane rental disincentives are being applied to sign structures on major traffic corridors (I-41, beltline). Exact locations and disincentive amounts are shown in the special provisions attached.

Non-participating Work:

None

Deferred Construction Work (Preventative Maintenance Projects):

None

5.15 Unique or Non-Standard Features

5.15.1 Hazardous Waste

N/A

5.15.2 Environmental Commitments

See environmental document attachments

5.15.3 Community Sensitive Design/Public Involvement

N/A

6.0 Synopsis

	Completion/Approval Dates	Status of Coordination or Other Information as Needed
Concept Definition Report	8/26/18	Project did not go through formal scope process
Scoping Document	N/A	
Public Involvement Plan	N/A	
Environmental Document (Type: CEC)	1/7/19	
Public Information Meetings	N/A	
SHPO Involvement	5/9/18	BTS/CR determined that proposed action will have no effect on historic/archaeological sites
DNR Involvement	10/8/18	
Transportation Management Plan (Type: 2)	12/19/18	60% Approval
Permits Required (Types:)	N/A	
Local Project Agreements	N/A	
Status of Statutory Actions	N/A	

7.0 Attachments

- Project Location/Overview Map
- Preliminary Plan Sheet(s)
- Environmental Commitments Basic Sheet (if applicable) (include coordination letters)
- Transportation Management Plan Documentation

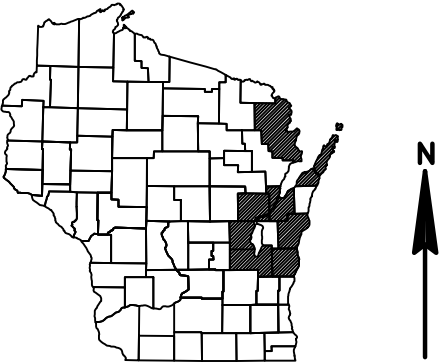
PROJECT ID:
WITH: 1009-30-15

COUNTY:
BROWN

ORDER OF SHEETS

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

TOTAL SHEETS =



DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

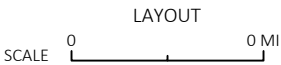
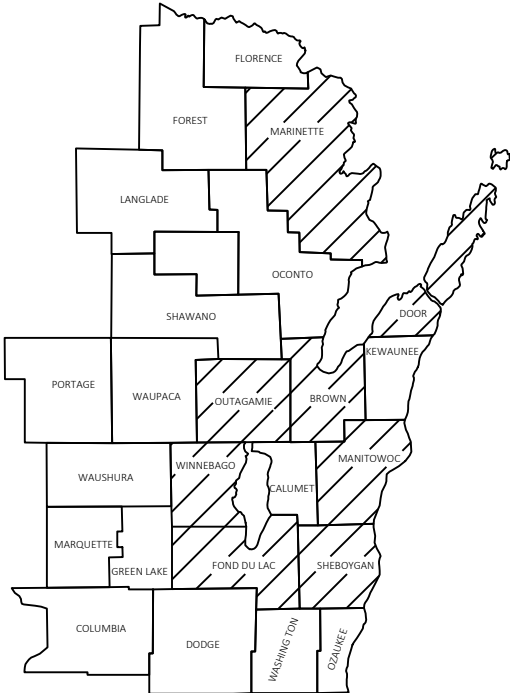
PLAN OF PROPOSED IMPROVEMENT

SIGN BRIDGE REPLACEMENT

REGIONWIDE VARIOUS ROUTES NE

VAR HWY
BROWN COUNTY

STATE PROJECT NUMBER
1009-30-15



TOTAL NET LENGTH OF CENTERLINE = 0 MI

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-30-15		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	
Designer	
Project Manager	
Regional Examiner	
Regional Supervisor	

APPROVED FOR THE DEPARTMENT

DATE: (Signature)

E

GENERAL NOTES
THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

STRUCTURE AS-BUILTS AND INSPECTION REPORTS CAN BE FOUND ON THE WISDOT HIGHWAY STRUCTURES INFORMATION (HSI) WEBSITE OR BY REQUEST THROUGH THE PROJECT MANAGER.

TRAFFIC CONTACTS:

JOSH FALK	920-366-8033	JOSHUA.FALK@DOT.WI.GOV
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STRUCTURE MAINTENANCE CONTACTS:

BRADY RADES	920-366-5684	BRADY.RADES@DOT.WI.GOV
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DNR LIASON:

JIM DOPERALSKI COUNTIES:	920-412-0165 BROWN, MARINETTE	JAMES.DOPERALSKI@WISCONSIN.GOV
MATT SCHAEVE COUNTIES:	920-366-1544 MANITOWOC, OUTAGAMIE	MATTHEW.SCHAEVE@WISCONSIN.GOV
JAY SCHIEFELBEIN COUNTIES:	920-360-3784 FOND DU LAC, OUTAGAMIE, SHEBOYGAN	JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV



BROWN

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-05-0108	IH 41	SB	IH 41 SB, 0.6 MILES SOUTH OF LINEVILLE RD
S-05-0176	IH 41	NB/SB	IH 41 MEDIAN, 0.55 MILES NORTH OF LOMBARDI AVE
S-05-0188	IH 41	NB/SB	IH 41 MEDIAN, 0.85 MILES NORTH OF STH 29
S-05-0212	LINEVILLE RD	EB/WB	LINEVILLE RD, 200 FT WEST OF 41 RAMPS
S-05-0252	STH 29	WB	IH 41 SB, 0.6 MILES SOUTH OF LINEVILLE RD
S-05-0253	IH 41	NB	IH 41 SB, 0.6 MILES SOUTH OF LINEVILLE RD
S-05-0270	CTH EB	NB/SB	IH 41 SB, 0.6 MILES SOUTH OF LINEVILLE RD
S-05-0285	LINEVILLE RD	EB/WB	IH 41 SB, 0.6 MILES SOUTH OF LINEVILLE RD

DOOR

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-15-0017	STH 42	NB	STH 42 NB, 0.12 MILES NORTH OF CTH TT
S-15-0018	STH 42	SB	STH 42 SB, 0.3 MILES NORTH OF CTH T

FOND DU LAC

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-20-0022	IH 41	NB	IH 41 NB, 0.33 MILES NORTH OF HICKORY ST
S-20-0023	IH 41	SB	IH 41 NB, 0.33 MILES SOUTH OF S MILITARY RD
S-20-0040	CTH D	WB	CTH D WB, 0.15 MILES EAST OF USH 151

MANITOWOC

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-36-0014-000A	STH 32	EB	STH 32 EB, ROUNDABOUT AT 32/67
S-36-0015	STH 32	WB	STH 32 EB, ROUNDABOUT AT 32/67
S-36-0023	CUSTER ST	SB	CUSTER ST SB/USH 151 INTERSECTION
S-36-0024	MARSHALL ST	NB	MARSHALL ST NB/USH 151 INTERSECTION

MARINETTE

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-38-0007	USH 141	NB	USH 141 NB, 0.25 MILES SOUTH OF STH 64
S-38-0008	USH 141	SB	USH 141 SB, 0.35 MILES NORTH OF STH 64
S-38-0011	USH 41	SB	USH 41/STH 64 INTERSECTION

OUTAGAMIE

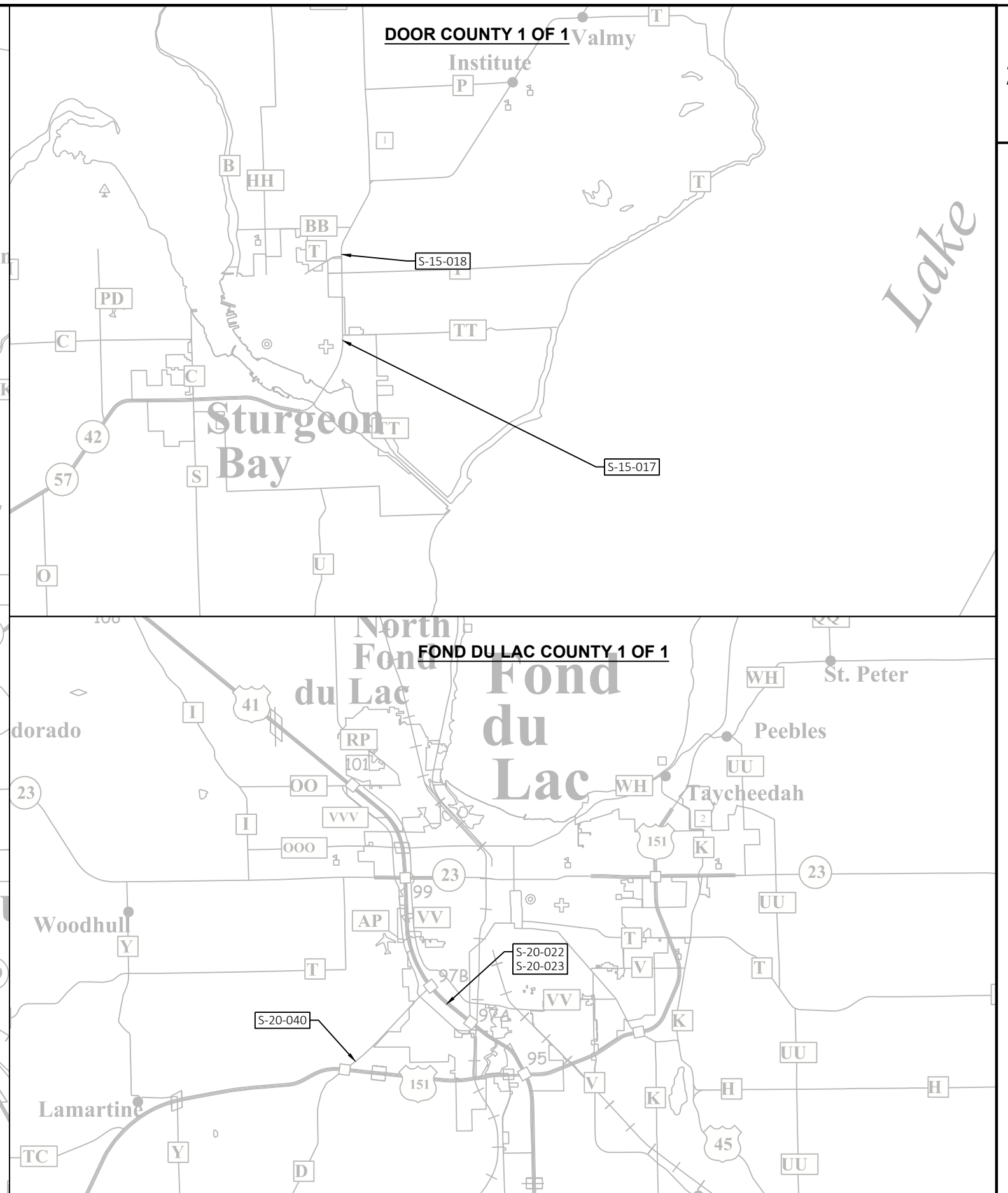
STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-44-0032	USH 41	SB	USH 41 SB, 0.32 MILES EAST OF STH 47
S-44-0106	STH 47	SB	STH 47/IH 41 INTERCHANGE

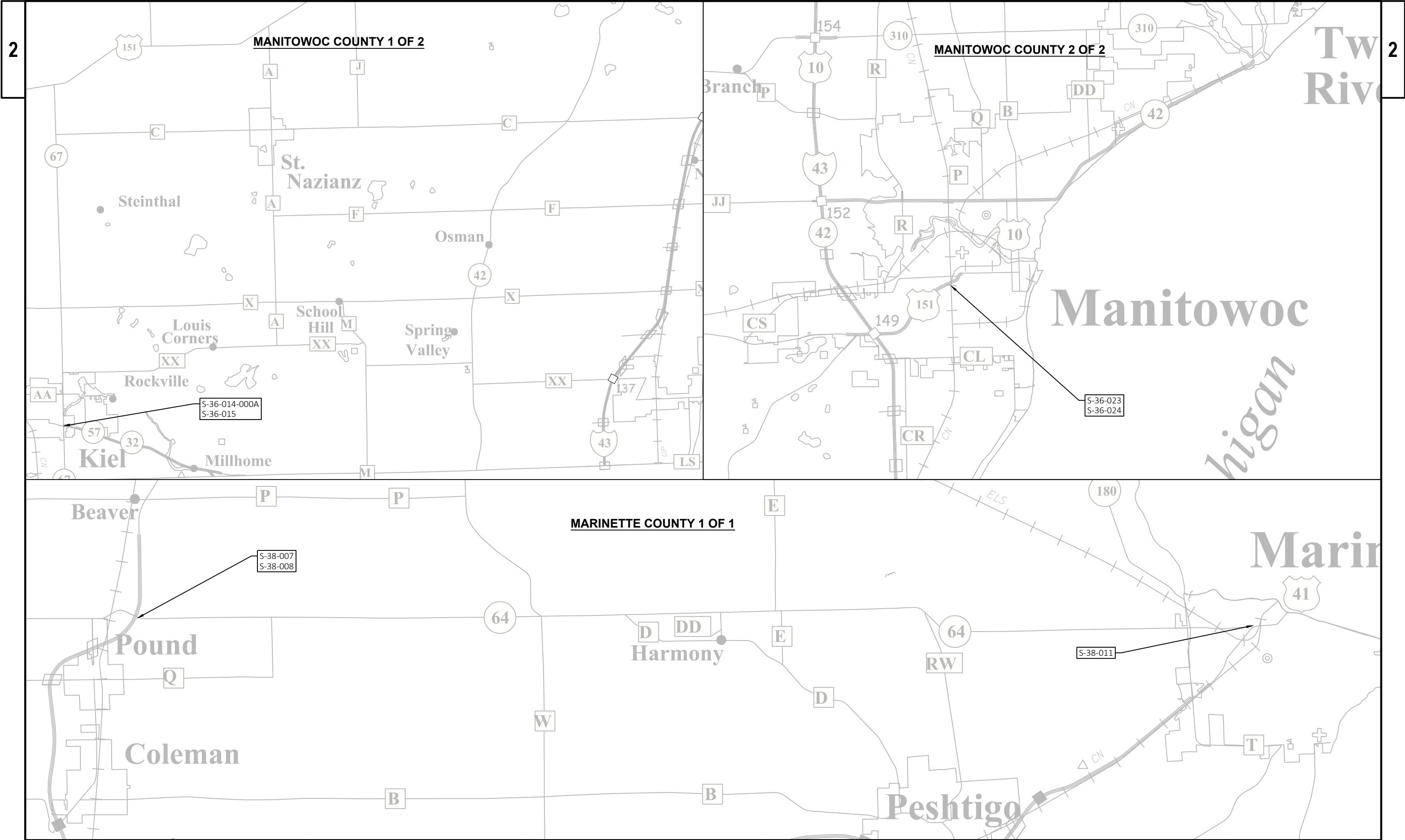
SHEBOYGAN

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-59-0033	STH 42	WB	STH 42 WB, ROUNDABOUT AT STH 42/CTH Y
S-59-0035	STH 42	WB	STH 42 WB, ROUNDABOUT 0.25 MILES WEST OF IH 43

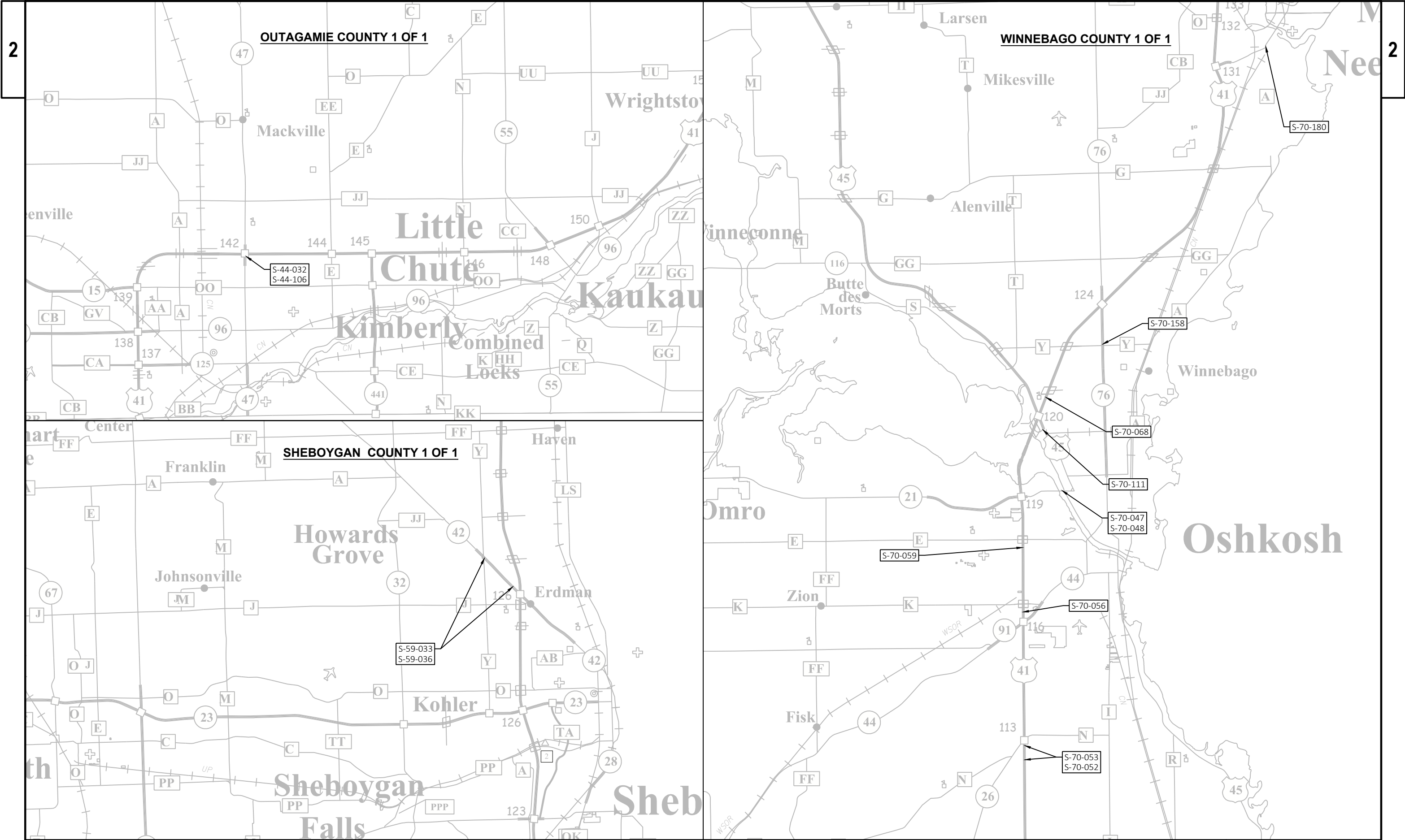
WINNEBAGO

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-70-0047	STH 21	EB	STH 21 EB OVER FOX RIVER
S-70-0048	STH 21	WB	STH 21 WB OVER FOX RIVER
S-70-0052	IH 41	SB	IH 41 SB, 0.5 MILES SOUTH OF STH 26
S-70-0053	IH 41	SB	IH 41 SB, 0.1 MILES SOUTH OF STH 26
S-70-0056	IH 41	SB	IH 41 SB, 0.28 MILES NORTH OF STH 44
S-70-0059	IH 41	SB	IH 41 SB, 0.17 MILES SOUTH OF WITZEL AVE
S-70-0068	IH 41	SB	IH 41 SB, 0.37 MILES NORTH OF USH 45
S-70-0111	USH 45	NB	USH 45 NB, 0.37 MILES SOUTH OF IH 41
S-70-0158	STH 76	NB	STH 76 NB/W SUNNYVIEW RD INTERSECTION
S-70-0180	STH 114	EB	STH 114 EB, AT E WINNECONNE AVE INTERSECTION





PROJECT NO: 1009-30-15	HWY: VARIOUS	COUNTY: BROWN	SIGN LOCATIONS	SHEET E
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PROJECT NO: 1009-30-15	HWY: VARIOUS	COUNTY: BROWN	SIGN LOCATIONS	SHEET E
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COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION	TRAFFIC CONTROL	RESTRICTED HOURS	PCMS
Brown	S-05-0108	USH 41	SB	USH 41 NORTH OF LAKEVIEW DRIVE	Lane closure	M-F: 6am-8am	x
Brown	S-05-0176	IH 41	NB/SB	IH 41 SOUTH OF 9TH STREET	Shoulder closure	NONE	
Brown	S-05-0188	IH 41	NB/SB	IH 41 NORTH OF MEMORIAL DRIVE	Shoulder closure	NONE	
Brown	S-05-0212	CTH M	EB/WB	CTH M BETWEEN NB RAMPS AND E DEERFIELD AVE	Lane closure	WB: 7am-9am	
Brown	S-05-0252	STH 29	WB	STH 29 BETWEEN IH 41 NB RAMPS AND TAYLOR STREET	Shoulder closure	NONE	
Brown	S-05-0253	IH 41	NB	IH 41 NB EXIT RAMP TO SHAWANO AVENUE	Lane closure	NONE	
Brown	S-05-0270	CTH EB	NB/SB	CTH EB BETWEEN CTH RK AND STH 29 EB EXIT RAMP	Lane closure	M-F: 6am-9am, 3pm-6pm	
Brown	S-05-0285	CTH M	EB/WB	CTH M BETWEEN THE USH 41 ON/OFF RAMPS	Lane closure	WB: 3pm-6pm EB: 7am-9am	
Door	S-15-0017	STH 42	NB	STH 42 NORTH OF CTH TT	Lane closure	Friday: Noon-7pm	
Door	S-15-0018	STH 42	SB	STH 42 NORTH OF EGG HARBOR ROAD	Lane closure	Friday: Noon-7pm	
Fond du Lac	S-20-0022	IH 41	NB	IH 41 NORTH OF HICKORY STREET	Shoulder closure	NONE	
Fond du Lac	S-20-0023	IH 41	SB	IH 41 SOUTH OF MILITARY ROAD	Lane closure	M-F: 6am-6pm, Sat: 9am-6pm, Sun: 9am-8pm	x
Fond du Lac	S-20-0040	CTH D	WB	CTH D NORTH OF USH 151	Lane closure	NONE	
Manitowoc	S-36-0014-000A	STH 32	EB	STH 32 WEST OF STH 67	Lane closure	NONE	
Manitowoc	S-36-0015	STH 32	WB	STH 32 EAST OF STH 67	Lane closure	NONE	
Manitowoc	S-36-0023	LRD	EB	CUSTER STREET WEST OF USH 151	Lane closure	NONE	
Manitowoc	S-36-0024	LRD	WB	CUSTER STREET EAST OF USH 151	Lane closure	NONE	
Marinette	S-38-0007	USH 141	NB	USH 141 SOUTH OF STH 64	Shoulder closure	NONE	
Marinette	S-38-0008	USH 141	SB	USH 141 NORTH OF STH 64	Lane closure	NONE	
Marinette	S-38-0011	USH 41	WB	USH 41 BETWEEN HATTIE STREET AND STATE STREET	Lane closure	M-F: 3pm-6pm	
Outagamie	S-44-0032	IH 41	SB	IH 41 BETWEEN STH 47 AND MEADE STREET	Shoulder closure	NONE	
Outagamie	S-44-0106	STH 47	SB	STH 47 BETWEEN THE IH 41 ON/OFF RAMPS	Lane closure	M-F: 3pm-6pm	
Sheboygan	S-59-0033	STH 42	WB	STH 42 EAST OF CTH Y	Lane closure	NONE	
Sheboygan	S-59-0035	STH 42	WB	STH 42 BETWEEN VANGUARD DRIVE AND IH 43 SB ON/OFF RAMPS	Lane closure	NONE	
Winnebago	S-70-0047	USH 21	EB	USH 21 BETWEEN SAWYER STREET AND THE FOX RIVER	Lane closure	NONE	
Winnebago	S-70-0048	USH 21	WB	USH 21 BETWEEN SUMMIT AVENUE AND THE FOX RIVER	Lane closure	NONE	
Winnebago	S-70-0052	IH 41	SB	IH 41 BETWEEN NEKIMI AVENUE AND PICKETT ROAD	Shoulder closure	NONE	
Winnebago	S-70-0053	IH 41	SB	IH 41 SOUTH OF STH 26	Shoulder closure	NONE	
Winnebago	S-70-0056	IH 41	SB	IH 41 BETWEEN 20TH AVE AND STH 44	Shoulder closure	NONE	
Winnebago	S-70-0059	IH 41	SB	IH 41 BETWEEN WITZEL AVE AND 9TH AVE	Shoulder closure	NONE	
Winnebago	S-70-0068	IH 41	SB	IH 41 BETWEEN SNELL RD AND USH 45	Shoulder closure	NONE	
Winnebago	S-70-0011	USH 45	NB	USH 45 SOUTH OF LAKE BUTTE DES MORTS DR	Lane closure	M-F: 3pm-6pm	
Winnebago	S-70-0158	STH 76	NB	STH 76 NORTH OF CTH Y	Shoulder closure	NONE	
Winnebago	S-70-0180	STH 114	EB	STH 114 BETWEEN CHURCH ST AND COMMERCIAL ST	Lane closure	M-F: 6am-9am	

NOTES:

- RESTRICTED HOURS INDICATE THE TIME FRAMES WHEN LANE CLOSURES ARE NOT PERMITTED.
- A THREE DAY ADVANCE NOTICE NEEDED FOR PCMS PLACEMENT. PCMS NEEDED FOR ALL FULL CLOSURES (RAMP, DIRECTION OF TRAVEL, ETC)
- IF AN AUXILIARY LANE IS ADJACENT TO A RIGHT LANE CLOSURE CLOSE BOTH LANES.
- RAMPS SHOULD REMAIN OPEN WHENEVER POSSIBLE
- TRAFFIC CONTROL NEEDS ARE SUBJECT TO CHANGE. MODIFICATION TO THE TYPE OF CLOSURE SHALL BE APPROVED BY THE REGION TRAFFIC CONTROL ENGINEER.

STRUCTURE NUMBER	COUNTY	SIGN CODE	W X H	637.2220 SIGNS TYPE II REFLECTIVE SH S.F.	638.2602 REMOVING SIGNS TYPE II EA
S-59-0035	SHEBOYGAN	R3-6X	42" X 48"	14	-
S-70-0068	WINNEBAGO	J3-1	36" X 84"	21	1
				35	1

STRUCTURE NUMBER	COUNTY	643.1050	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12	SPV.0060.13	SPV.0060.14	SPV.0060.15	SPV.0060.16	SPV.0060.17
		TRAFFIC CONTROL SIGNS PCMS	TENSION ANCHOR ROD	REMOVE DEBRIS AND REGRADE	REPLACE RODENT SCREEN	REPLACE FOUNDATION	ADJUST STANDOFF	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	TIGHTEN CONNECTION BOLT (NON- FRICTION)	SECURE / REPLACE CAP	REPLACE TYPE II SIGNS SUPPORT BRACKET	REPLACE SIGN CONNECTION HARDWARE	REPLACE SIGN CONNECTION CLAMP	INSTALL CONDUIT PLUG	INSTALL ID PLAQUE	INSTALL SIGN PANEL CONNECTOR	ADJUST VERTICAL CLEARANCE	TRAFFIC CONTROL - SINGLE LANE CLOSURE	TRAFFIC CONTROL - DOUBLE LANE CLOSURE
		DAY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
S-05-0108	BROWN	3			2					1		2		1					2
S-05-0176	BROWN						1												
S-05-0188	BROWN						1												
S-05-0212	BROWN								1									1	
S-05-0252	BROWN		12															2	
S-05-0253	BROWN		12															2	
S-05-0270	BROWN		12															2	
S-05-0285	BROWN								1									1	
S-15-0017	DOOR		6		1													1	
S-15-0018	DOOR		6															1	
S-20-0022	FOND DU LAC		8							1									
S-20-0023	FOND DU LAC	3								2								1	
S-20-0040	FOND DU LAC							4				1						1	
S-36-0140-00A	MANITOWOC		6												1			1	
S-36-0015	MANITOWOC		6															1	
S-36-0023	MANITOWOC		8									1	1					2	
S-36-0024	MANITOWOC		8									1	2					1	1
S-38-0007	MARINETTE		8																
S-38-0008	MARINETTE		8													1		1	
S-38-0011	MARINETTE												2					2	
S-44-0032	OUTAGAMIE							1											
S-44-0106	OUTAGAMIE									1								2	
S-59-0033	SHEBOYGAN			1				4				2						2	
S-59-0035	SHEBOYGAN							4			1	1						2	
S-70-0047	WINNEBAGO				1					2								2	
S-70-0048	WINNEBAGO				1					2							2	2	
S-70-0052	WINNEBAGO		8																
S-70-0053	WINNEBAGO		8																
S-70-0056	WINNEBAGO		8																
S-70-0059	WINNEBAGO		8																
S-70-0068	WINNEBAGO																		
S-70-0111	WINNEBAGO		6															1	
S-70-0158	WINNEBAGO				1							1							
S-70-0180	WINNEBAGO					1												1	
TOTAL:		6	138	1	6	1	2	13	2	9	1	9	5	1	1	1	2	32	3

SIGN REPAIR LOCATIONS - BROWN COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
BROWN	S050108	USH 41 SB	S	USH 41 SB, 0.6 MILES SOUTH OF LINEVILLE RD
	S050176	US 41 N/S		1/4M N OF LOMBARDIAVE
	S050188	USH 41 NB/SB		JUST N OF MEMORIAL DR BRIDGE
	S050212	LINEVILLE RD		LINEVILLE RD JUST EAST OF USH 141
	S050252	STH 29 WB	W	STH 29 WB JUST EAST OF I-41NB RAMP
	S050253	USH 41 N	N	EXIT RAMP TO STH 29
	S050270	CTH EB		CTH EB JUST SOUTH OF STH 29 ROUNDABOUT
	S050285	LINEVILLE RD.		LINEVILLE RD. ON USH 41 OVERPASS

SIGN REPAIR LOCATIONS - DOOR COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
DOOR	S150017	STH 42 N	N	JUST S OF EGG HARBOR RD
	S150018	STH 42 S	S	JUST N OF EGG HARBOR RD

SIGN REPAIR LOCATIONS - FON DU LAC COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
FOND DU LAC	S200022	I-41 NB	N	I-41 NB, 1/4 MILE TO CTH D EXIT
	S200023	I-41 SB	S	I-41 SB, 1/4 MILE FROM CTH VVV RAMP
	S200040	CTH D WB	W	CTH D WB JUST NORTH OF USH 51 SB RAMP

SIGN REPAIR LOCATIONS - MANITOWOC COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
MANITOWOC	S36014000A	STH 32 EB	E	STH 32 WB JUST WEST OF STH 67
	S360015	STH 32 WB	W	STH 32 WB JUST WEST OF STH 67
	S360023	CUSTER ST		JUST N OF USH 151
	S360024	MARSHALL ST		JUST E OF STH 151

SIGN REPAIR LOCATIONS - MARINETTE COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
MARINETTE	S380007	USH 141 NB	N	USH 141 NB AT EXIT TO STH 64
	S380008	USH 141 SB	S	USH 141 SB AT EXIT TO STH 64
	S380011	USH 41		AT STH 64 W

SIGN REPAIR LOCATIONS - OUTAGAMIE COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
OUTAGAMIE	S440032	I-41 SB	S	I-41 SB AT OFF RAMP TO RICHMOND ST (STH 47)
	S440106	STH 47 S	S	STH 47 JUST S OF USH 41 SB RAMP

SIGN REPAIR LOCATIONS - SHEBOYGAN COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
SHEBOYGAN	S590033	STH 42 WB	W	STH 42 WB JUST EAST OF CTH Y
	S590035	STH 42 WB	W	STH 42 WB, 1/4 MILE EAST OF I-43

SIGN REPAIR LOCATIONS - WINNEBAGO COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
WINNEBAGO	S700047	US 21 EB	E	USH 21 EB, LIFT BRIDGE SIGNAL OVER THE FOX RIVER
	S700048	STH 21 WB	W	STH 21 WB, LIFT BRIDGE SIGNAL OVER THE FOX RIVER
	S700052	I-41 SB	S	I-41 SB, 1/2 MILE SOUTH OF STH 26
	S700053	I-41 SB	S	I-41 SB JUST SOUTH OF STH 26 BRIDGE
	S700056	I-41 SB	S	I-41 SB AT EXIT TO STH 44
	S700059	I-41 SB	S	I-41 SB AT EXIT TO 9TH AVE
	S700068	I-41 SB	S	I-41 SB AT EXIT TO USH 45
	S700111	USH 45		S OF BUTTE DES MORTS DR RAB
	S700158	STH 76 NB	N	STH 76 NB JUST NORTH OF CTH Y
	S700180	STH 114		AT CHURCH ST

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
- BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR PROPOSED REPAIRS.
- ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE SHOWN OR NOTED.

STATE PROJECT NUMBER


1009-30-15

LIST OF DRAWINGS

1. 2019 NE REGION SIGN REPAIR
2. FOUNDATION DETAILS
3. TRUSS DETAILS 1
4. TRUSS DETAILS 2
5. SIGN PANEL DETAILS 1
6. SIGN PANEL DETAILS 2
7. S-05-108
8. S-05-176
9. S-05-188
10. S-05-212
11. S-05-252
12. S-05-253
13. S-05-270
14. S-05-285
15. S-15-17
16. S-15-18
17. S-20-22
18. S-20-23
19. S-20-40
20. S-36-14-A
21. S-36-15
22. S-36-23
23. S-36-24
24. S-38-07
25. S-38-08
26. S-38-11
27. S-44-32
28. S-44-106
29. S-59-33
30. S-59-35
31. S-70-47
32. S-70-48
33. S-70-52
34. S-70-53
35. S-70-56
36. S-70-59
37. S-70-68
38. S-70-111
39. S-70-158
40. S-70-180
41. S-70-180 FOUNDATION DETAILS

STRUCTURE DESIGN CONTACTS:

STEVEN DOOCY (608) 261-6063
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY
<div><div>BUREAU OF STRUCTURES</div></div>			
ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____			
STRUCTURE NE SIGN REPAIRS			
2019 NE SIGN REPAIR			
COUNTY VARIES		VARIES	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY SAD	DESIGNED CK'D. MJK	DRAWN BY DDS	PLANS CK'D. SAD
2019 NE REGION SIGN REPAIR			SHEET 1 OF 41

SCALE = 1:00

**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

TABLE OF ESTIMATED QUANTITIES FOR FOUNDATIONS **

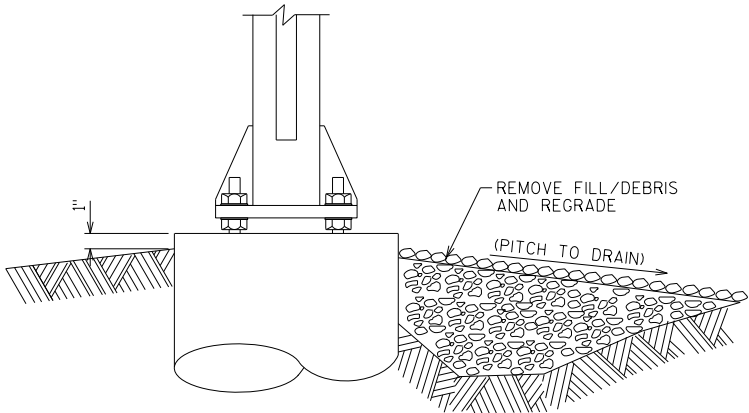
STRUCTURE NUMBER	TENSION ANCHOR ROD	REMOVE DEBRIS AND REGRADE	REPLACE RODENT SCREEN	REPLACE FOUNDATION	ADJUST STANDOFF
	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0060.05
	EA	EA	EA	EA	EA
S050108			2		
S050176					1
S050188					1
S050252	12				
S050253	12				
S050270	12				
S150017	6		1		
S150018	6				
S200022	8				
S36014000A	6				
S360015	6				
S360023	8				
S360024	8				
S380007	8				
S380008	8				
S590033		1			
S700047			1		
S700048			1		
S700052	8				
S700053	8				
S700056	8				
S700059	8				
S700111	6				
S700158			1		
S700180				1	
TOTAL	138	1	6	1	2

FOUNDATION NOTES

STATE PROJECT NUMBER

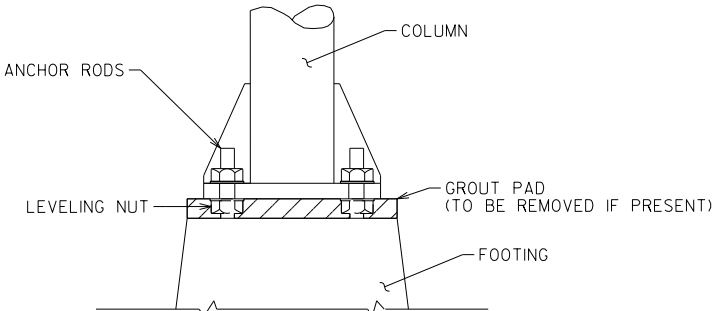
1009-30-15

1. CONCRETE - $f_c' = 3,500$ P.S.I.
2. BAR STEEL REINF.- GRADE 60 $f_y = 60,000$ P.S.I.
3. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
4. THE CONTRACTOR SHALL FIELD VERIFY DIMENSION OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
5. APPLY ZINC-RICH PAINT TO THE ANCHOR RODS, NUTS, WASHERS, AND LEVELING NUTS IN ACCORDANCE WITH SPECIFICATIONS AFTER REMOVING THE GROUT PAD OR TENSIONING THE ANCHOR ROD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TENSION ANCHOR ROD"
6. STEEL ANCHOR ROD NUTS AND WASHERS ASTM A563A HEAVY HEX NUTS AND ASTM F436 WASHERS.
7. THE TOP OF THE FOOTING SURFACE SHALL BE SMOOTHED AND SLOPED TO DRAIN.

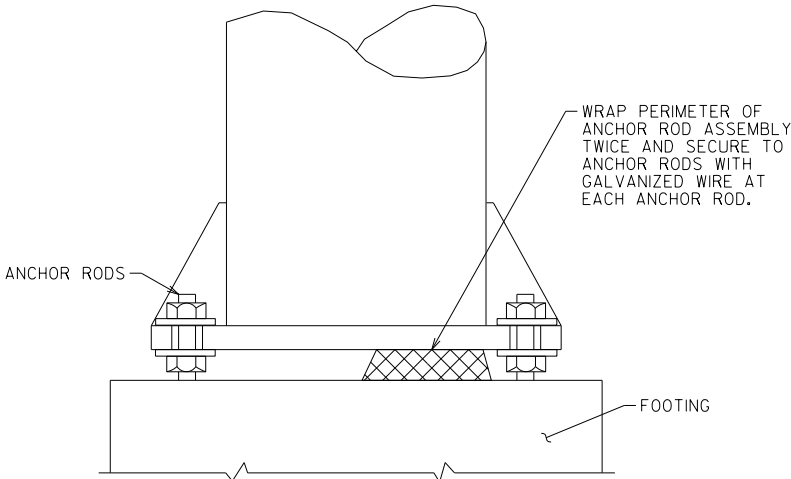


REMOVE DEBRIS AND REGRADE
SINGLE SHAFT FOUNDATION

ENSURE TOP OF CONCRETE IS FREE OF DEBRIS AND WATER WILL NOT COLLECT ON OR NEAR FOUNDATION.



TENSION ANCHOR RODS



REPLACE RODENT SCREEN

REQUIRED ON ALL STRUCTURES WITH ELECTRICAL EQUIPMENT.

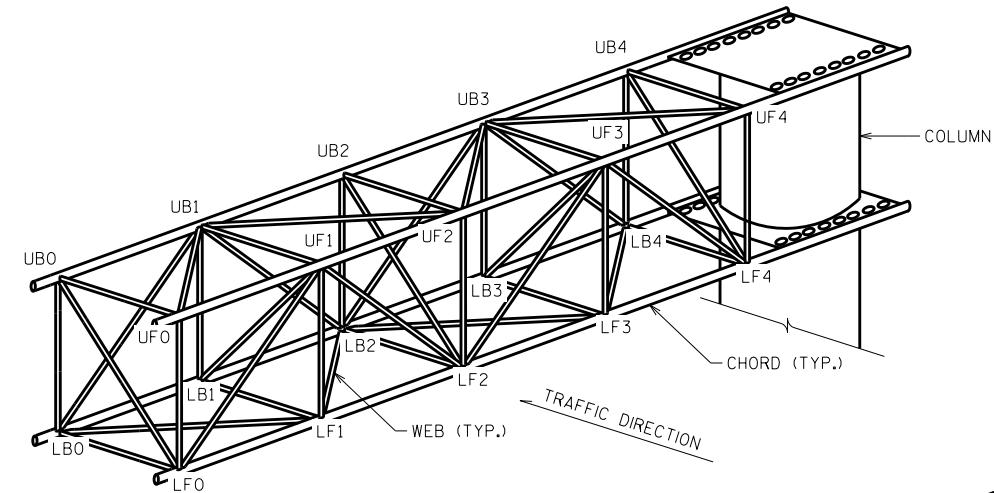
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
FOUNDATION DETAILS		SHEET 2	

SCALE = 1:00

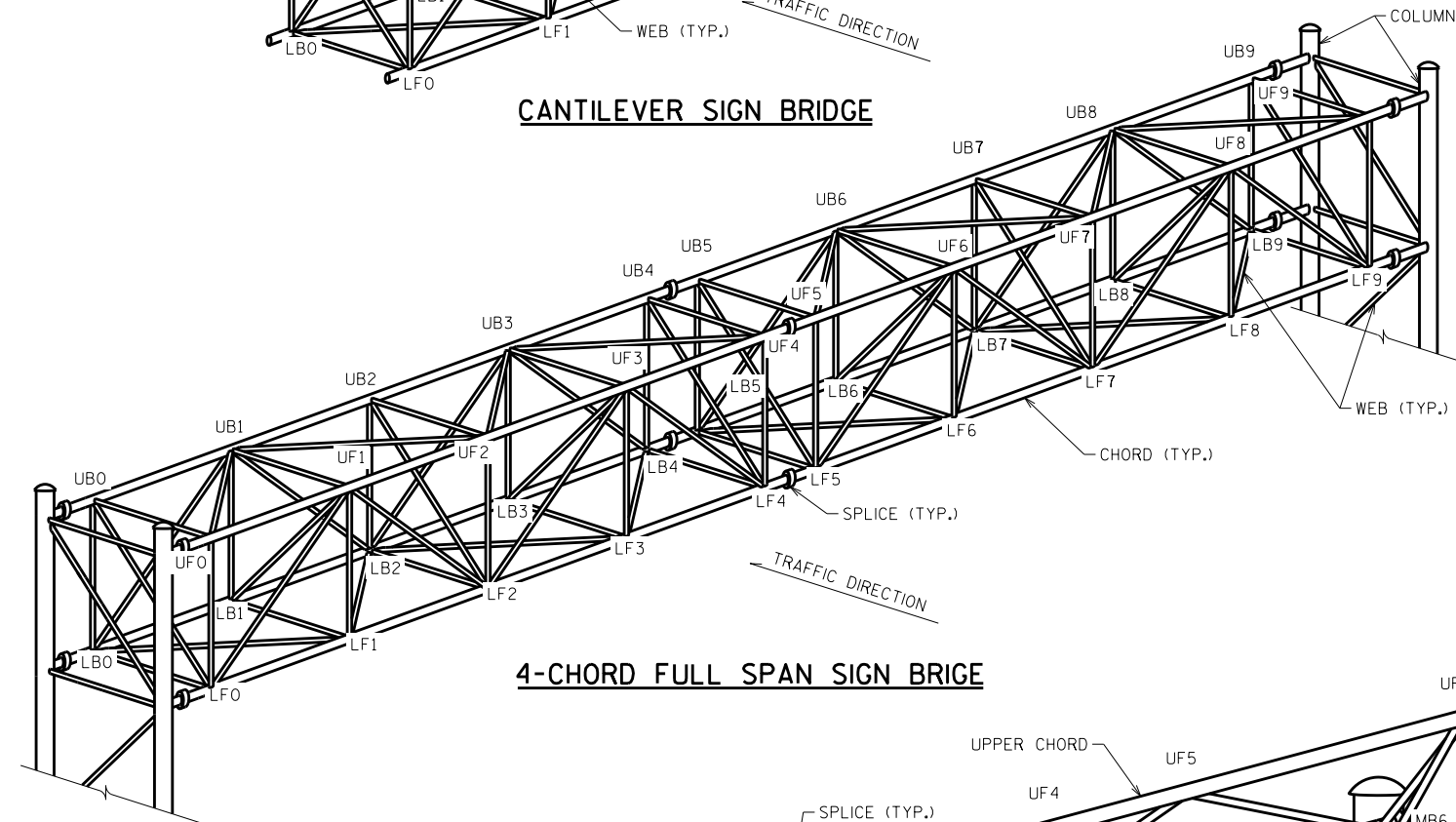
**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

TABLE OF ESTIMATED QUANTITIES FOR TRUSSES **

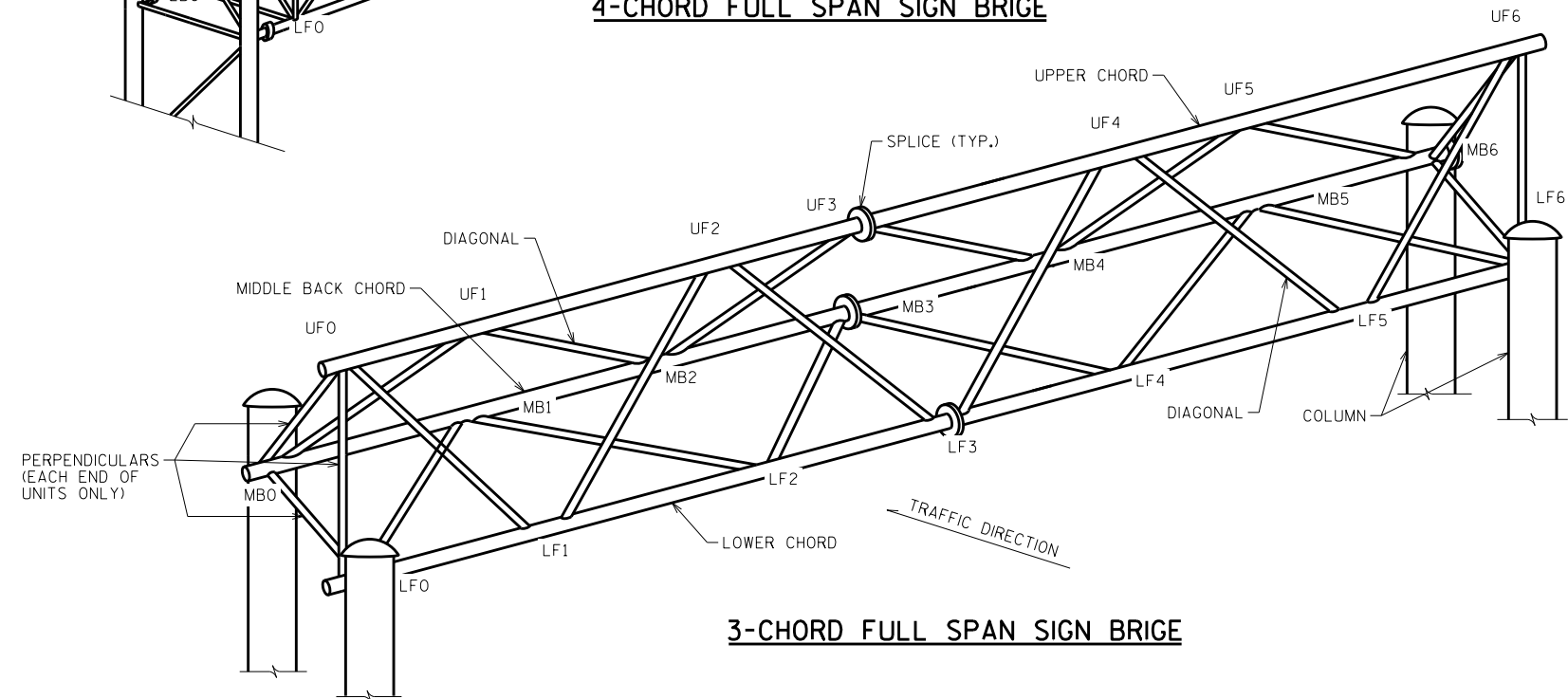
STRUCTURE NUMBER	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	TIGHTEN CONNECTION BOLT (NON- FRICTION)	SECURE/ REPLACE CAP
	SPV.0060.06 EA	SPV.0060.07 EA	SPV.0060.08 EA
S050108			1
S050212		1	
S050285		1	
S200022			1
S200023			2
S200040	4		
S440032	1		
S440106			1
S590033	4		
S590035	4		
S700047			2
S700048			2
TOTAL	13	2	9



CANTILEVER SIGN BRIDGE



4-CHORD FULL SPAN SIGN BRIDGE



3-CHORD FULL SPAN SIGN BRIDGE

STATE PROJECT NUMBER

1009-30-15

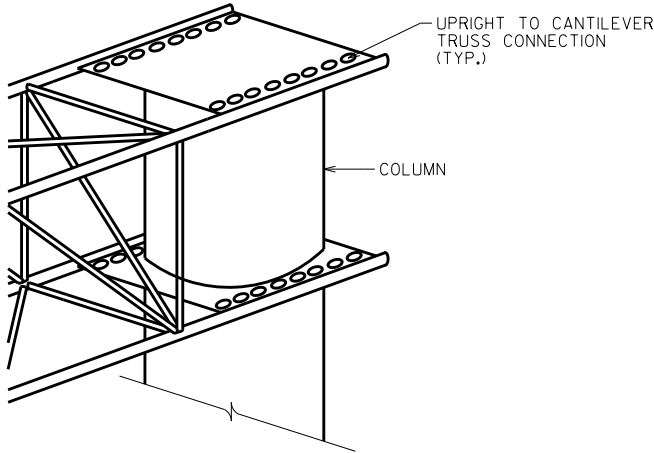
TRUSS NOTES:

1. WHEN A FULL SPAN SIGN BRIDGE IS OVER BOTH DIRECTIONS AND SIGNS ARE ON STRUCTURE FOR BOTH DIRECTIONS, THEN NORTHBOUND AND EASTBOUND GOVERN THE NUMBERING SYSTEM.
2. THE CANTILEVER SIGN BRIDGE NUMBERING SYSTEM ALWAYS COUNTS UP FROM LEFT TO RIGHT REGARDLESS OF COLUMN LOCATION.
3. TYPICAL SIGN BRIDGE CONFIGURATION FOR INFORMATION ONLY.

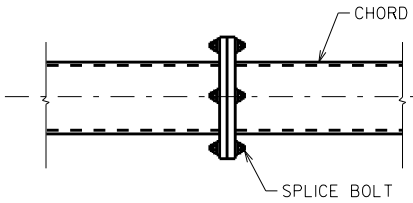
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
TRUSS DETAILS 1		SHEET 3	

TRUSS NOTES:

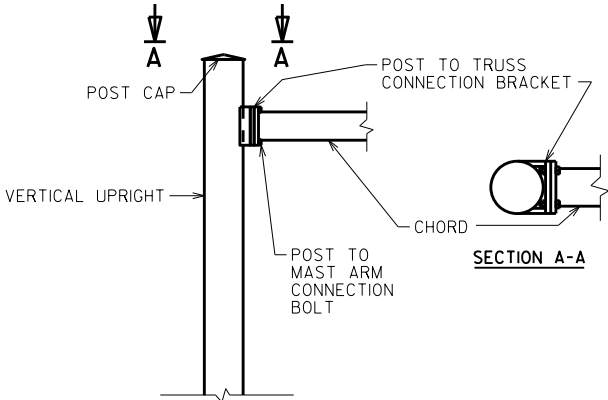
1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO:
 - ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3
 - HEX NUTS ASTM F594
 - WASHERS ASTM A240ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" ϕ AND 12% FOR 3/4" ϕ AND SMALLER.
4. REPLACE MISSING BOLTS ON TOWER CAPS WITH A STAINLESS STEEL BOLT.



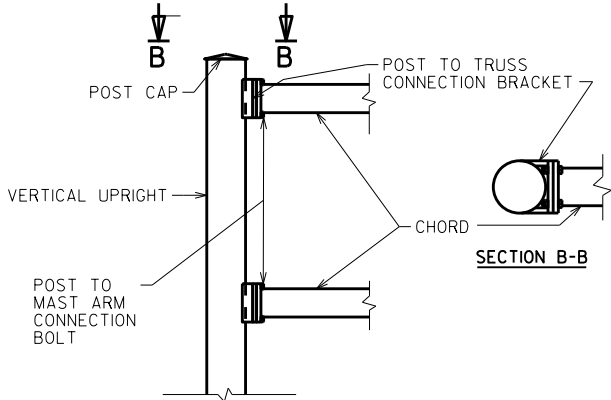
CANTIEVER SIGN BRIDGE
POST TO TRUSS CONNECTION DETAIL



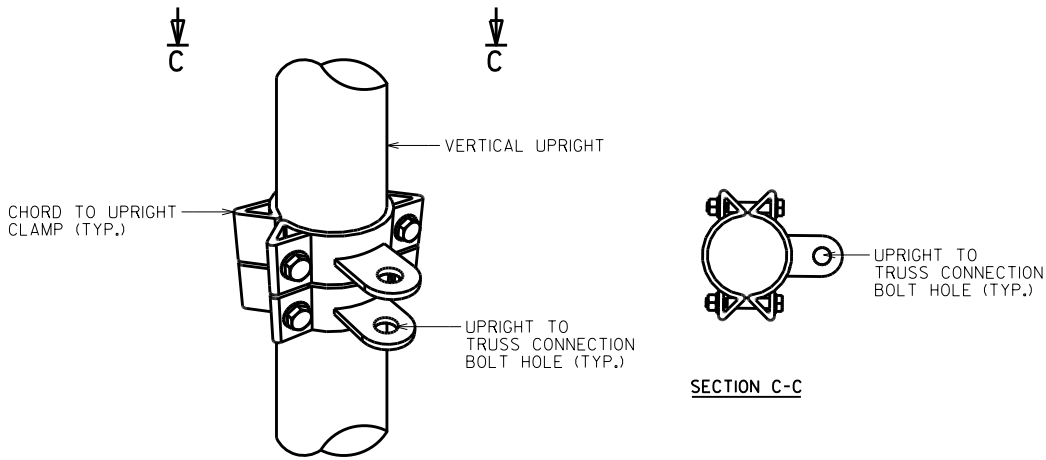
SPLICE CONNECTION BOLT DETAIL



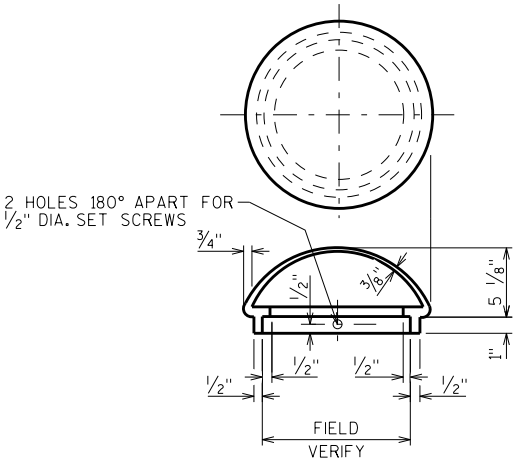
POST TO MAST ARM DETAIL



OVERHEAD POST TO TRUSS CONNECTION DETAIL II



OVERHEAD POST TO TRUSS CONNECTION DETAIL I



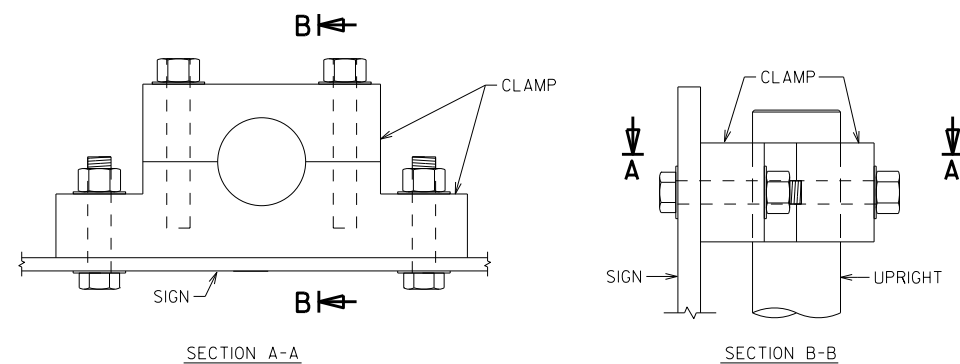
POST CAP DETAIL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
TRUSS DETAILS 2		SHEET 4	

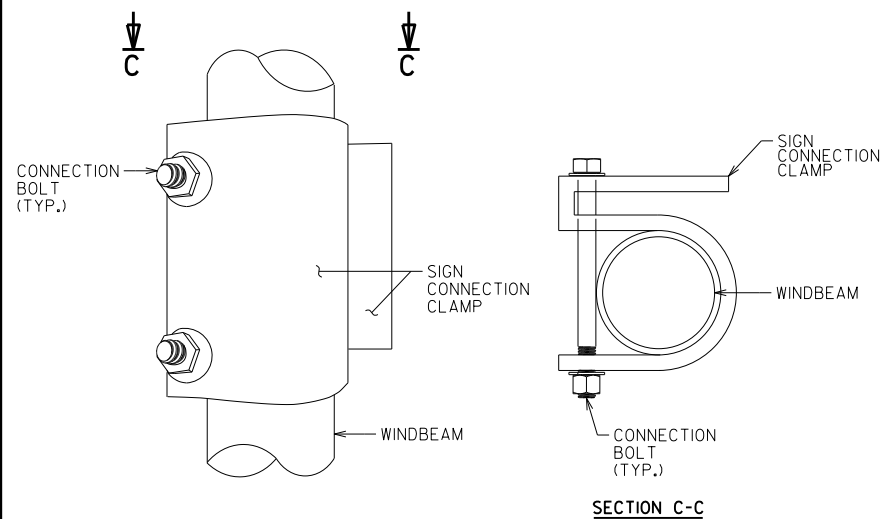
**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

TABLE OF ESTIMATED QUANTITIES FOR SIGNS **

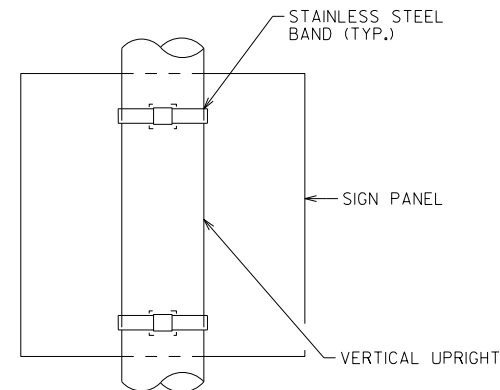
STRUCTURE NUMBER	SIGNS TYPE II REFLECTIVE SH	REMOVING SIGNS TYPE II	REPLACE TYPE II SIGN SUPPORT BRACKET	REPLACE SIGN CONNECTION HARDWARE	REPLACE SIGN CONNECTION CLAMP	INSTALL CONDUIT PLUG	INSTALL ID PLAQUE	INSTALL SIGN PANEL CONNECTOR	ADJUST VERTICAL CLEARANCE
	637.2220	638.2602	SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12	SPV.0060.13	SPV.0060.14	SPV.0060.15
	SF	EA	EA	EA	EA	EA	EA	EA	EA
S050108				2		1			
S200040				1					
S36014000A							1		
S360023				1	1				
S360024				1	2				
S380008								1	
S380011					2				
S590033				2					
S590035	14		1	1					
S700048									2
S700068	21	1							
S700180				1					
TOTAL	35	1	1	9	5	1	1	1	2



CLAMP DETAILS

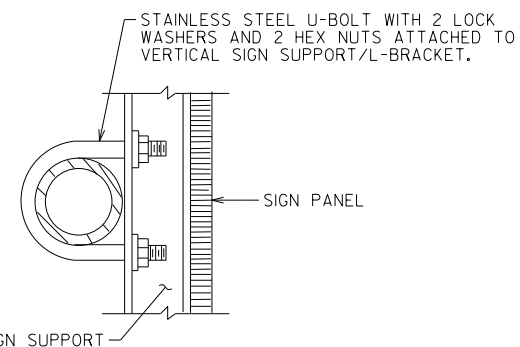


SIGN CONNECTION CLAMP DETAIL (TYPE 2)

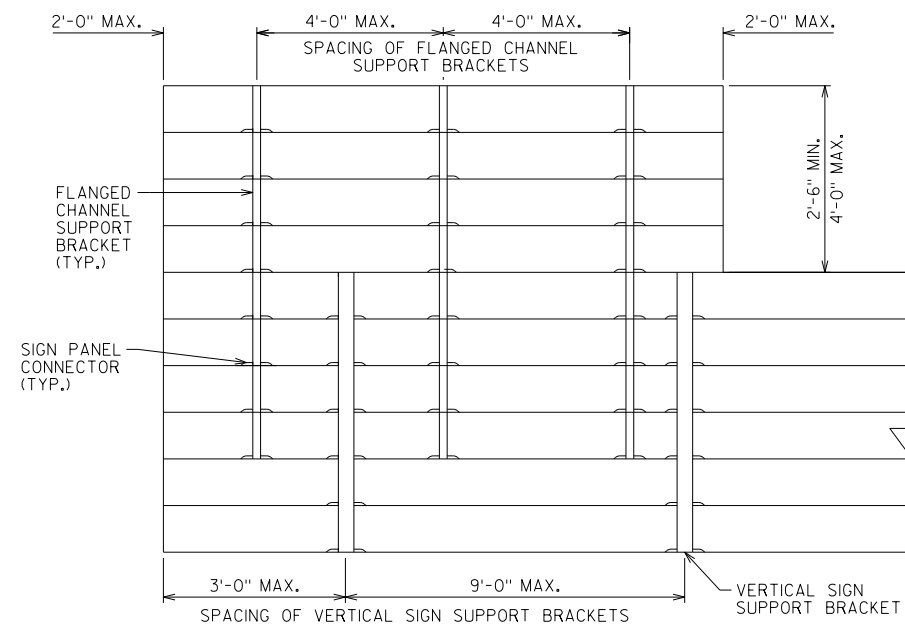


TYPE-II SIGN TO VERTICAL UPRIGHT DETAIL

REFER TO SIGN PLATE MANUAL FOR DETAILS (SIGN BANDING DETAILS)



INSTALL U-BOLT & TIGHTEN LOOSE U-BOLT DETAIL



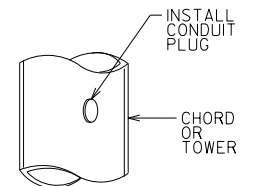
FLANGED CHANNEL SUPPORT/VERTICAL SIGN SUPPORT BRACKET DETAILS

STATE PROJECT NUMBER

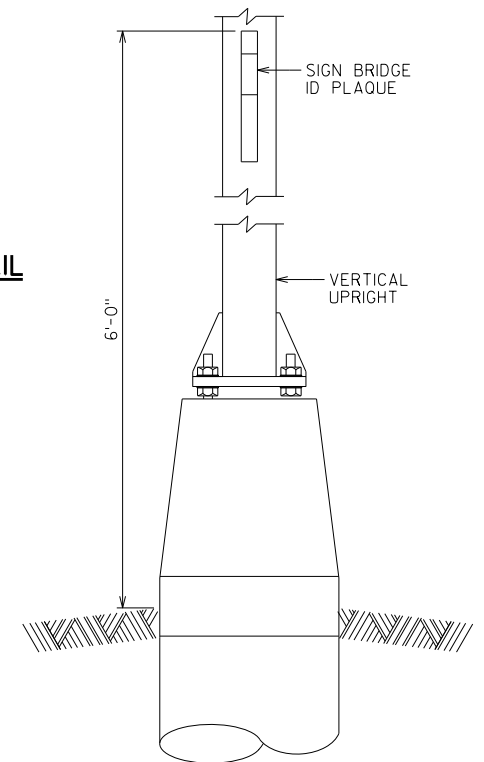
1009-30-15

SIGN PANEL NOTES:

1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO:
 - ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3
 - HEX NUTS ASTM 594
 - WASHERS ASTM A240ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" DIA. AND 12% FOR 3/4" DIA. AND SMALLER.



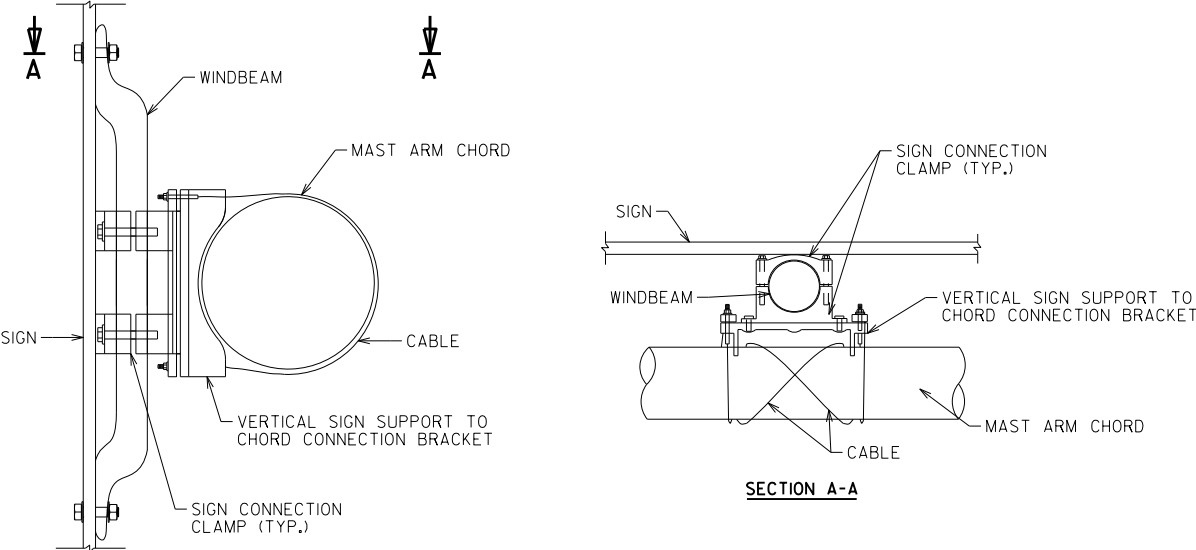
CONDUIT PLUG DETAIL



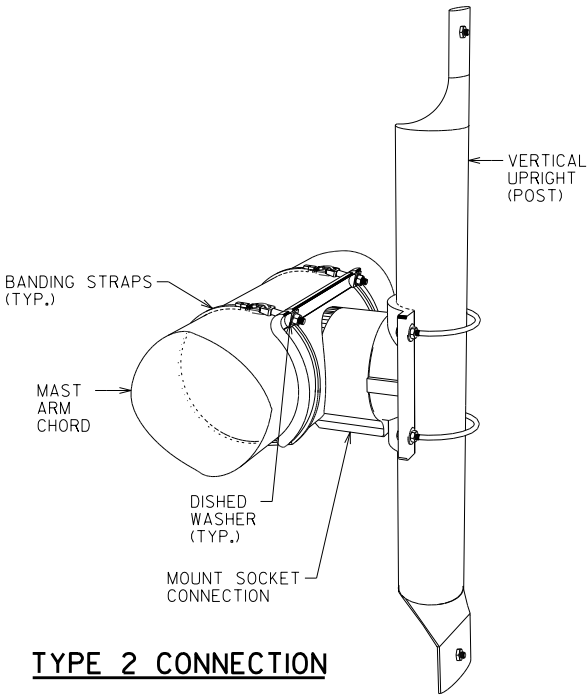
SIGN BRIDGE ID PLAQUE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
SIGN PANEL DETAILS 1		SHEET 5	

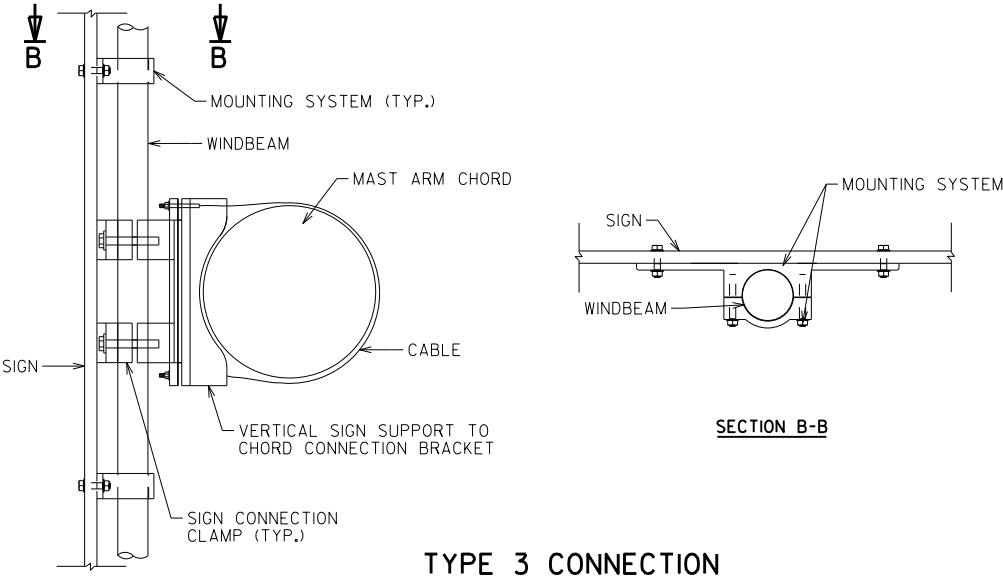
SCALE = 1:00



TYPE 1 CONNECTION



TYPE 2 CONNECTION

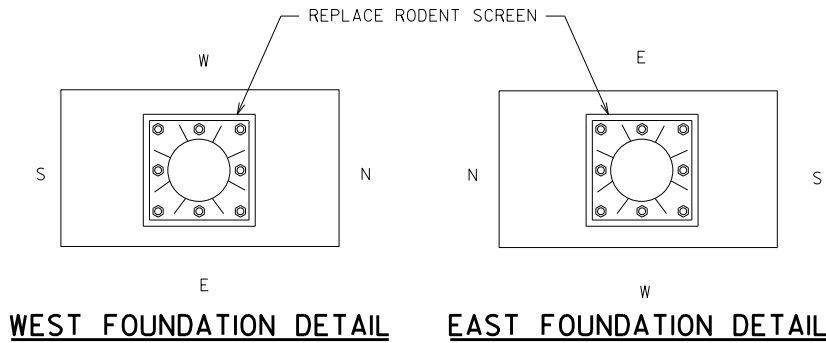
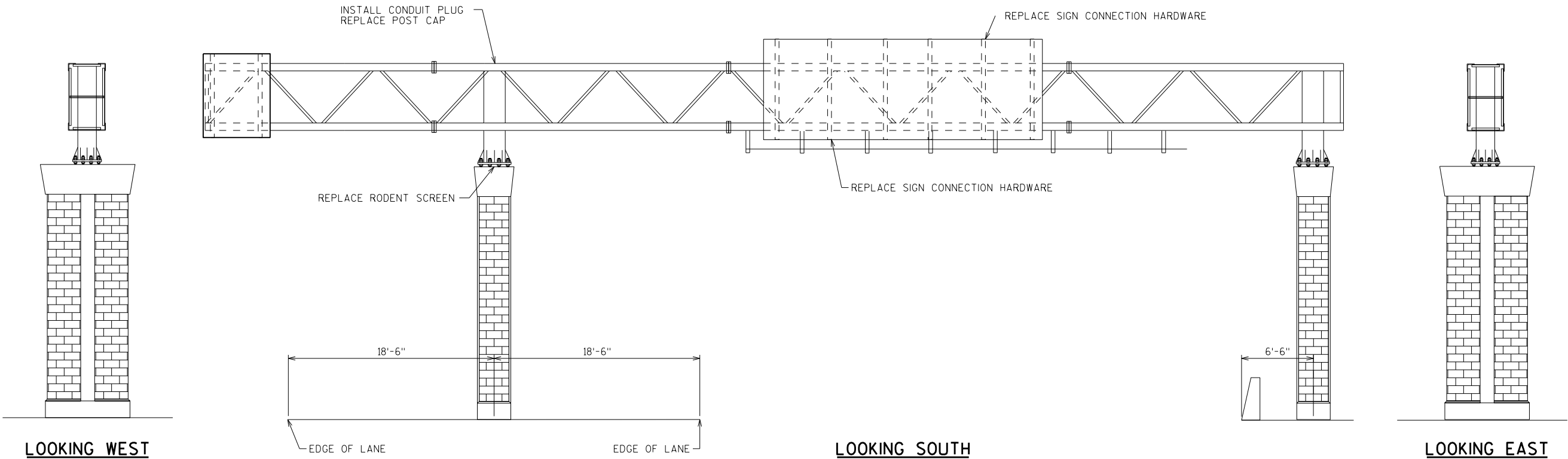


TYPE 3 CONNECTION

SIGN PANEL CONNECTION DETAIL (TYPE II SIGN)

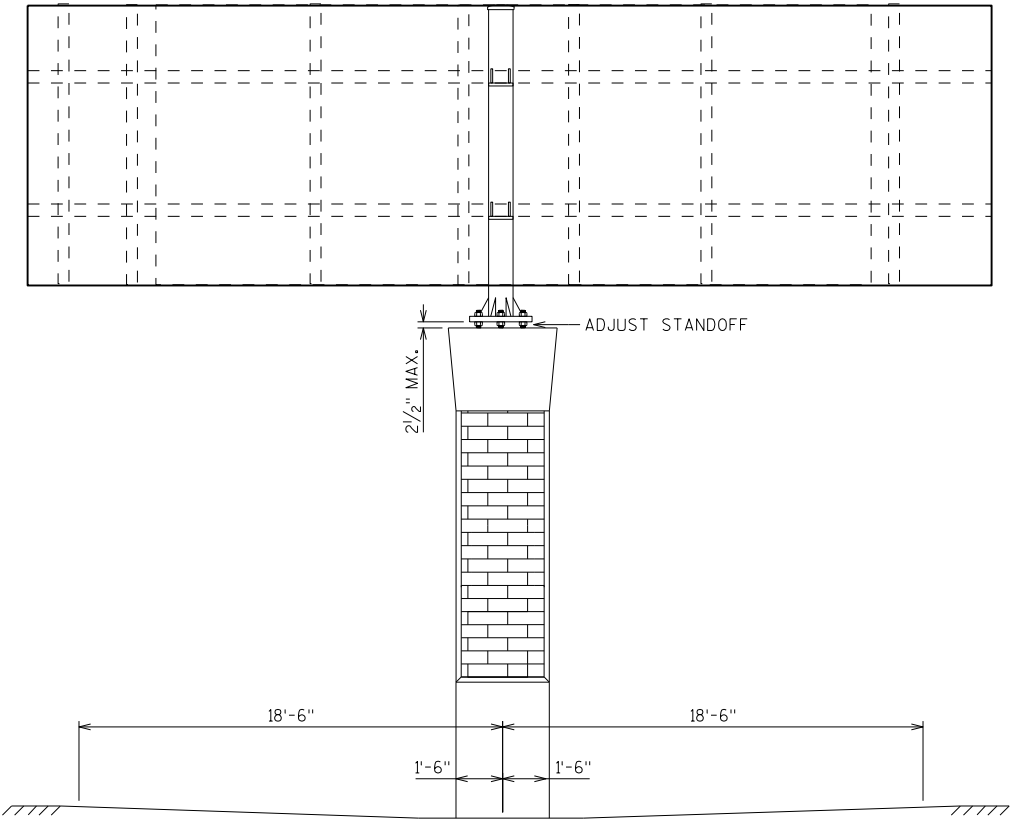
NOTE: SOME TYPE II SIGN PANELS MAY HAVE SIGN TYPE I CONNECTION. REFER TO SHEET "SIGN PANEL DETAILS (1 OF 2)".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
SIGN PANEL DETAILS 2		SHEET 6	

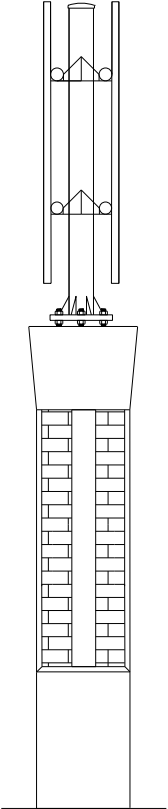


ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.03	REPLACE RODENT SCREEN	2 EACH	2
SPV.0060.08	SECURE/REPLACE CAP	1 EACH	3
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	2 EACH	5
SPV.0060.12	INSTALL CONDUIT PLUG	1 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-05-108		SHEET 7	



LOOKING NORTH



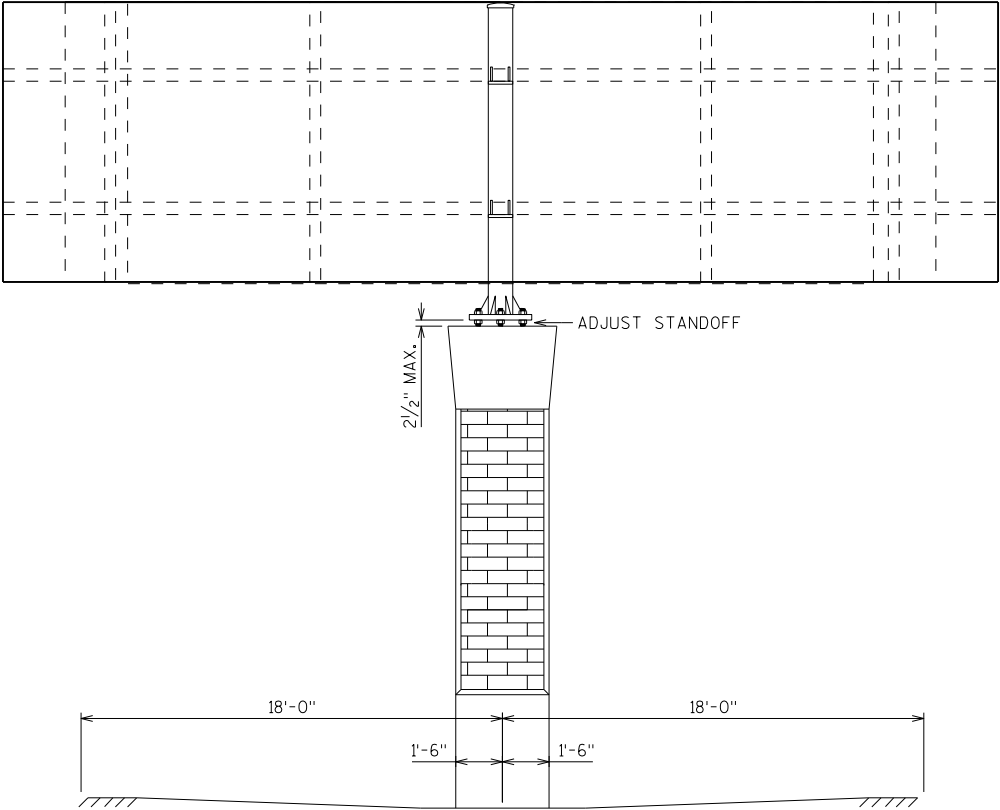
LOOKING WEST

8

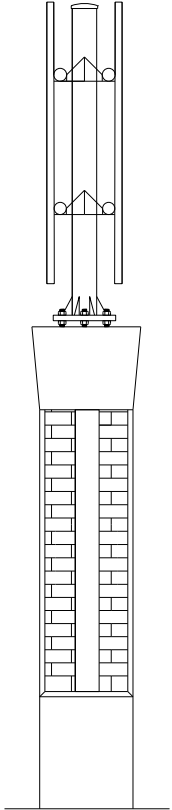
8

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	ADJUST STANDOFF	1 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
S-05-176		SHEET 8	



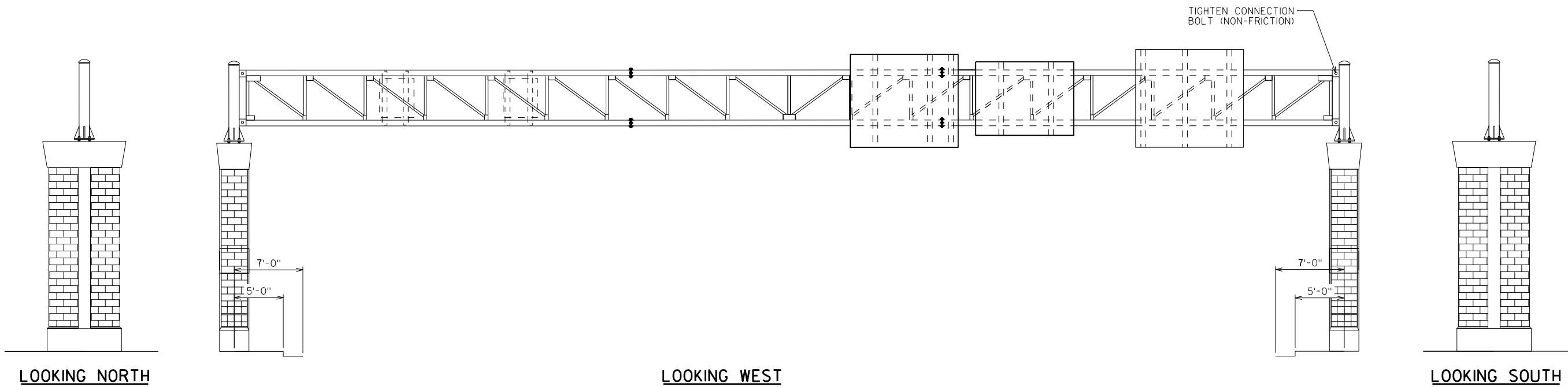
LOOKING SOUTH



LOOKING EAST

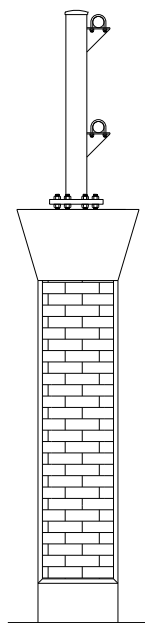
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	ADJUST STANDOFF	1 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-05-188		SHEET 9	

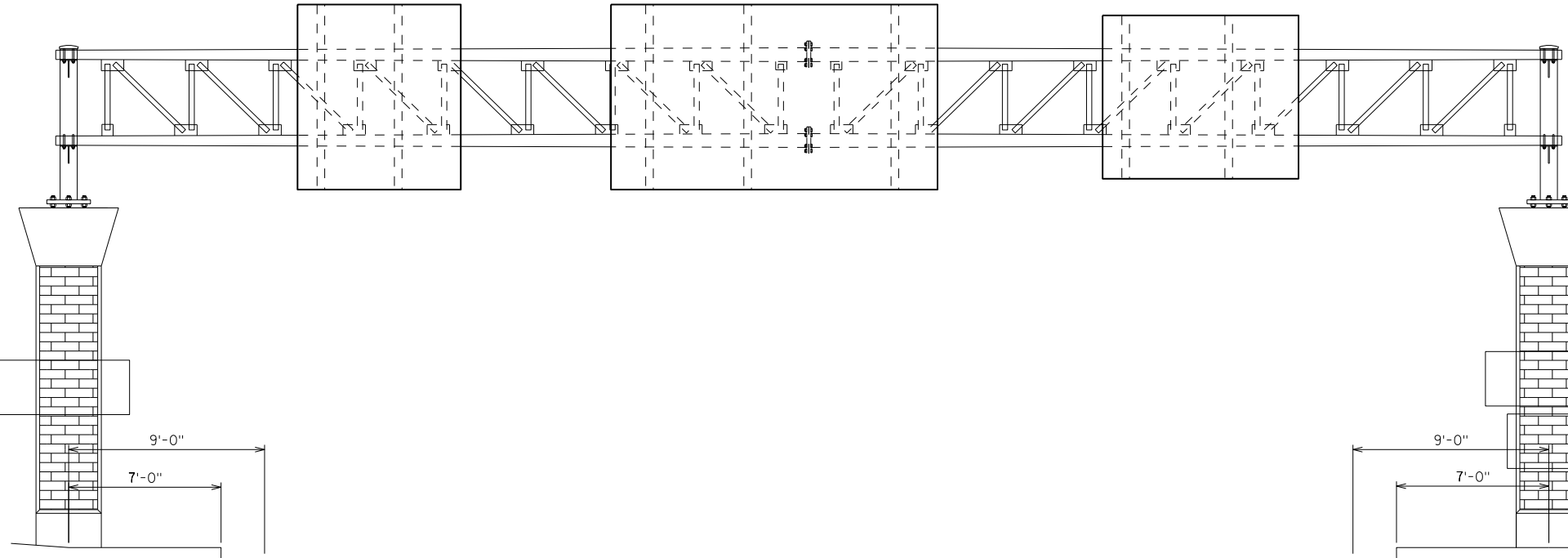


ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.07	TIGHTEN CONNECTION BOLT (NON-FRICTION)	1 EACH	3

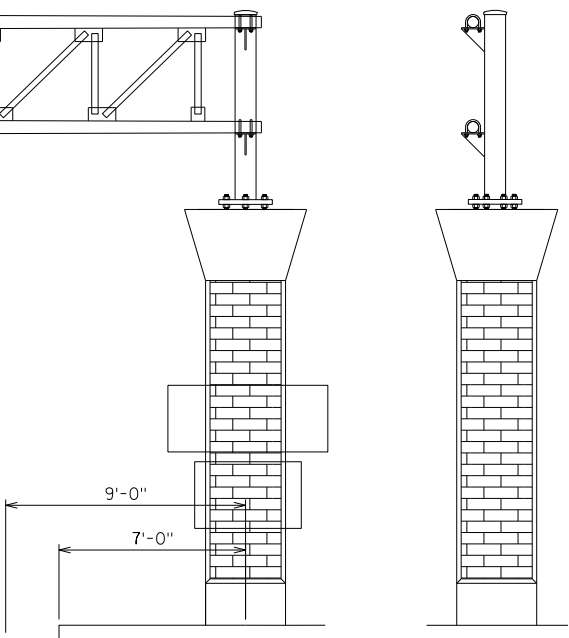
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-05-212		SHEET 10	



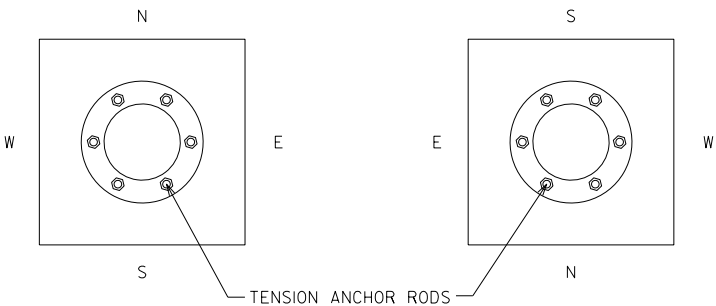
LOOKING NORTH



LOOKING WEST



LOOKING SOUTH

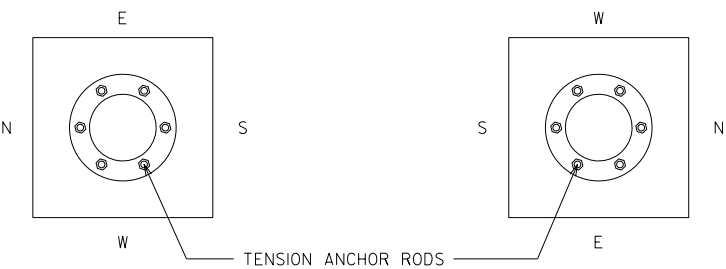
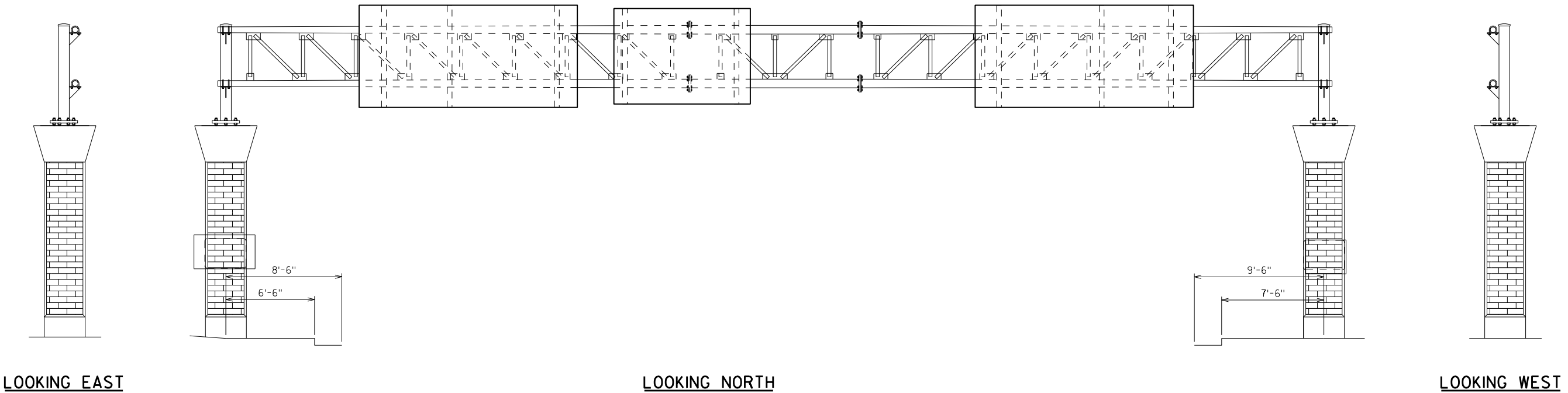


SOUTH FOUNDATION DETAIL NORTH FOUNDATION DETAIL

TENSION ANCHOR RODS

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	12 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-05-252		SHEET 11	

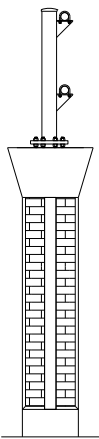


EAST FOUNDATION DETAIL

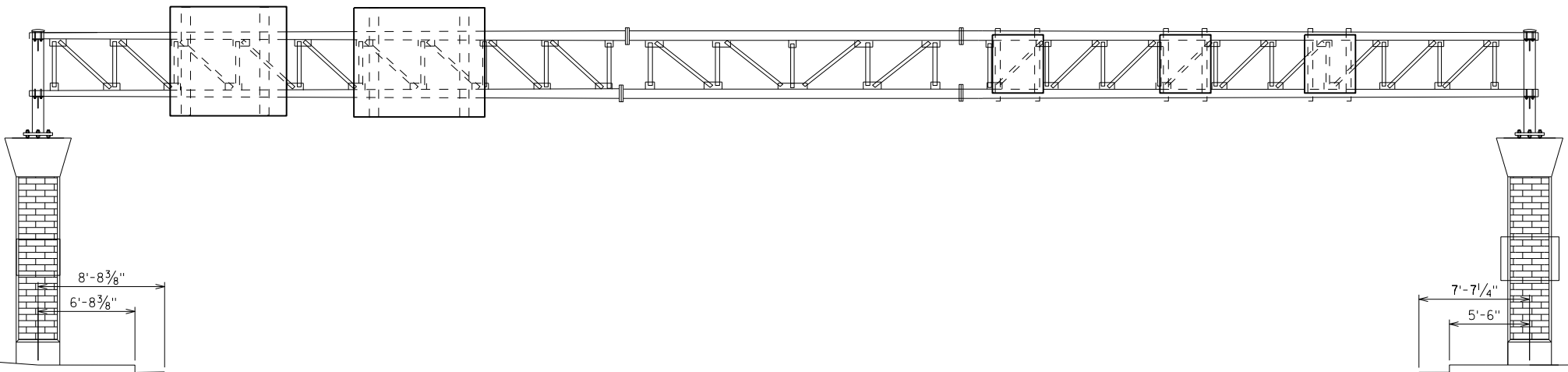
WEST FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	12 EACH	2

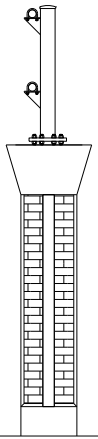
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-05-253		SHEET 12	



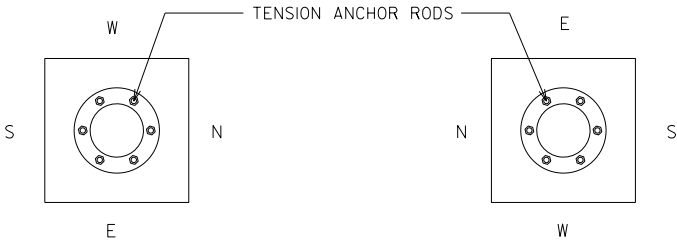
LOOKING WEST



LOOKING SOUTH



LOOKING EAST

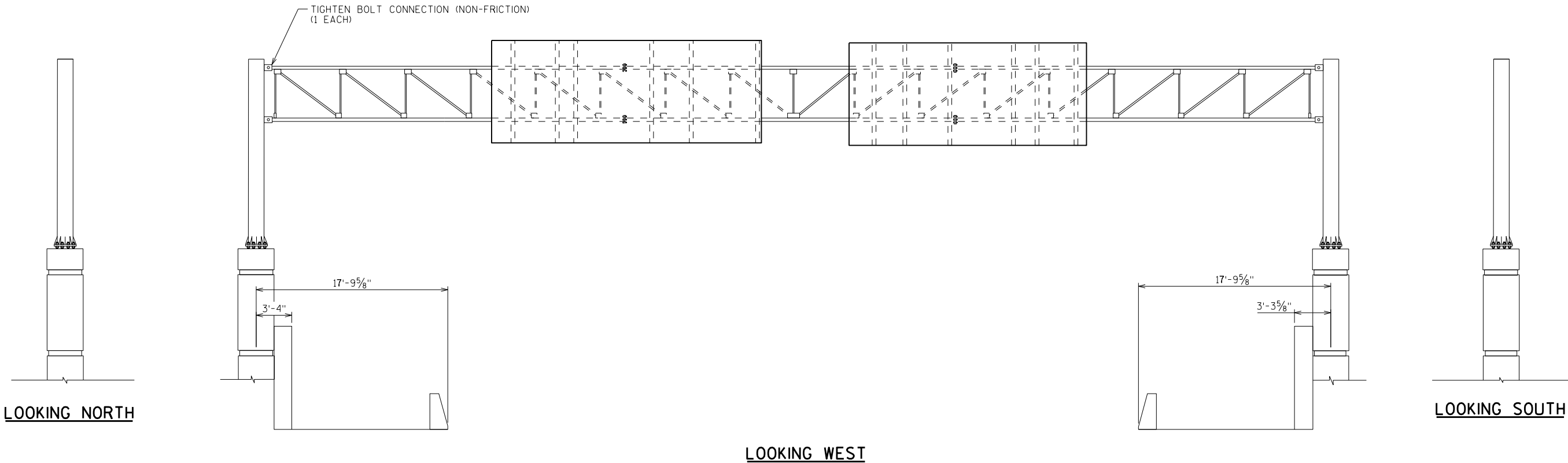


WEST FOUNDATION DETAIL

EAST FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	12 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-05-270		SHEET 13	

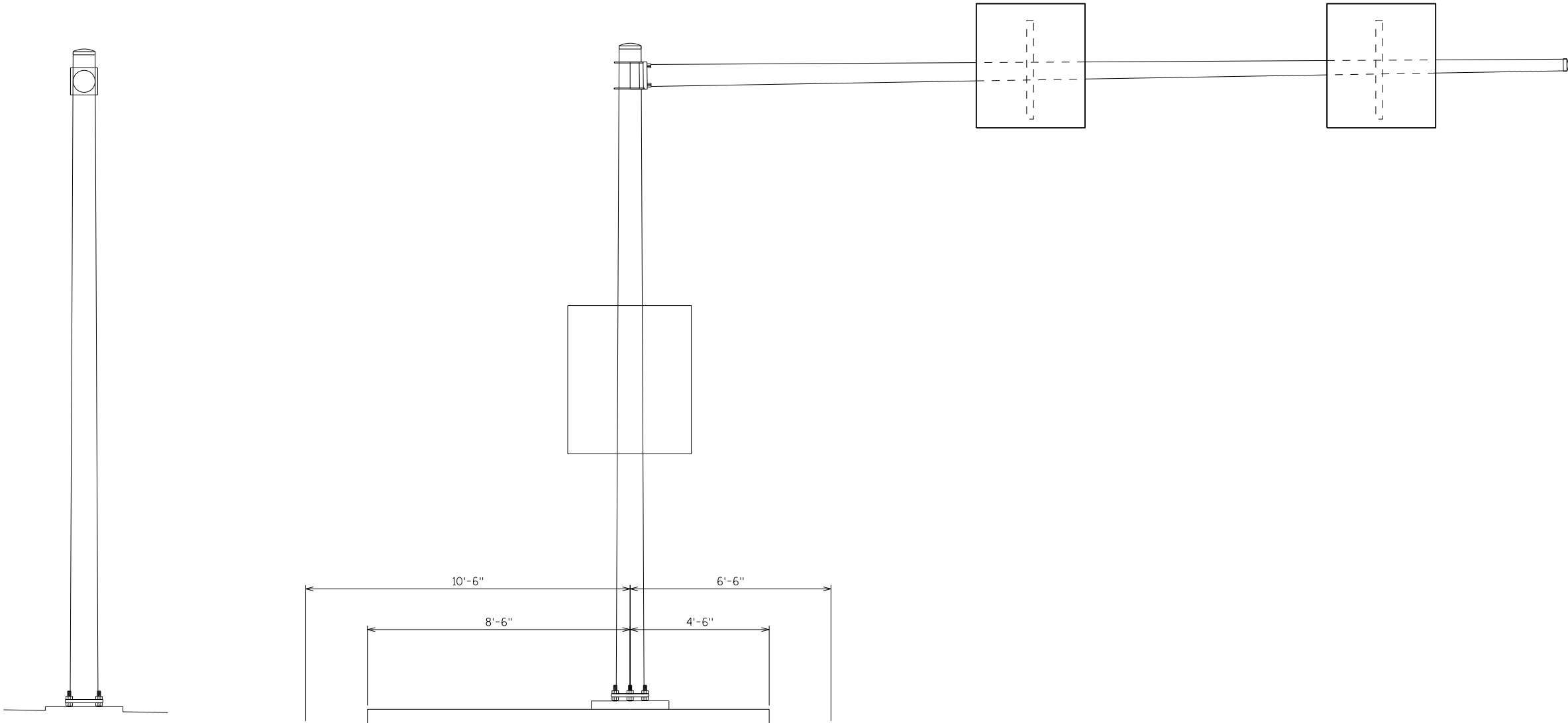


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8

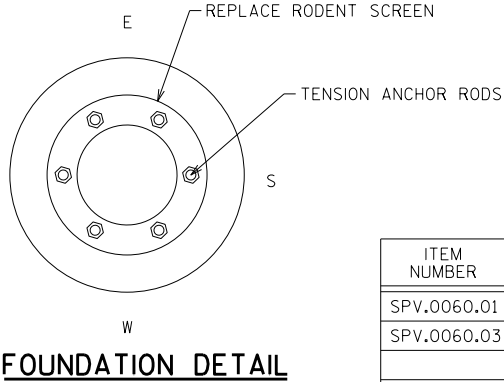
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.07	TIGHTEN BOLT CONNECTION (NON-FRICTION)	1 EACH	3

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
S-05-285		SHEET 14	



LOOKING EAST

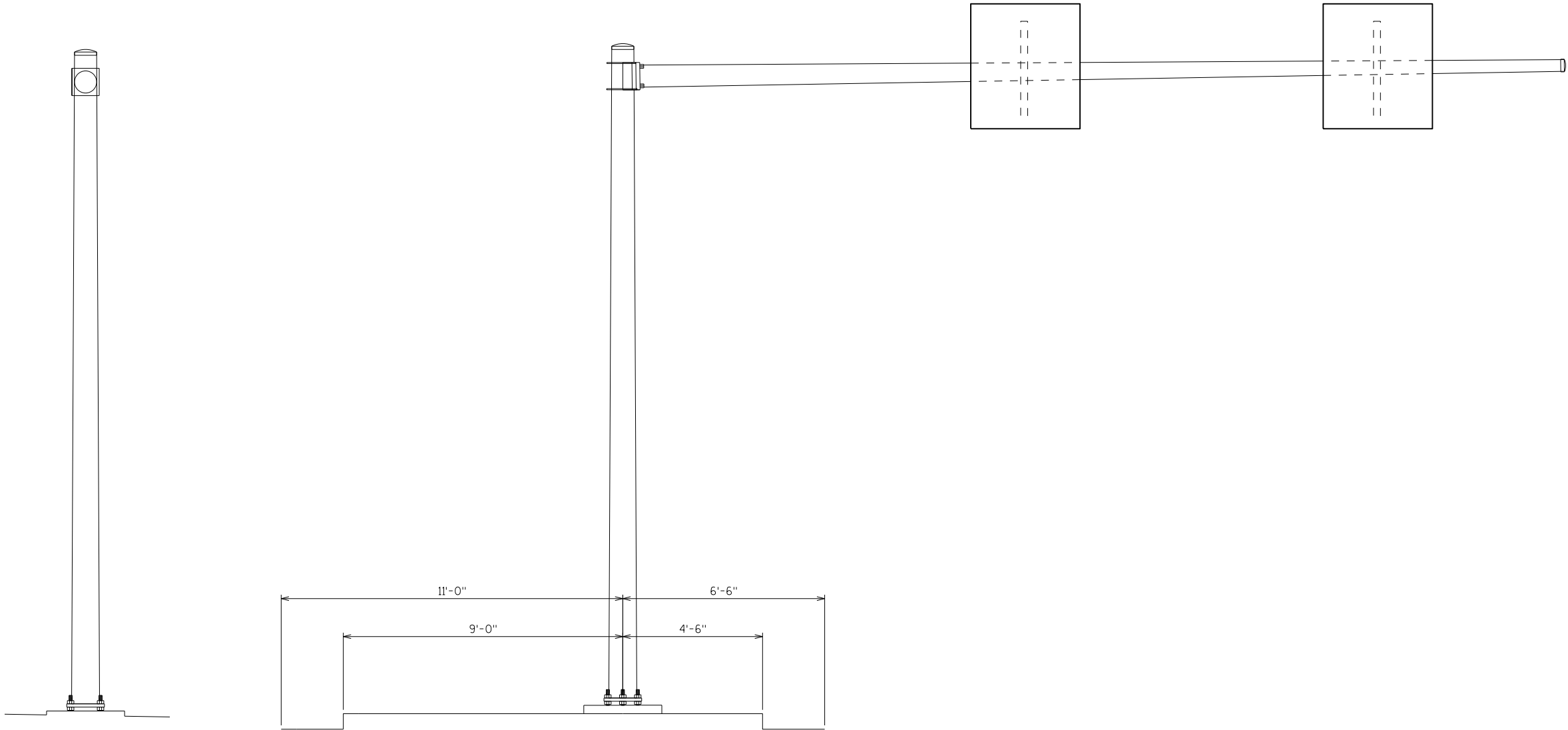
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FOUNDATION DETAIL

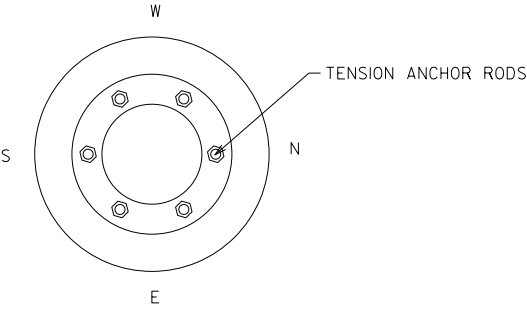
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.03	REPLACE RODENT SCREEN	1 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-15-17			SHEET 15



LOOKING WEST

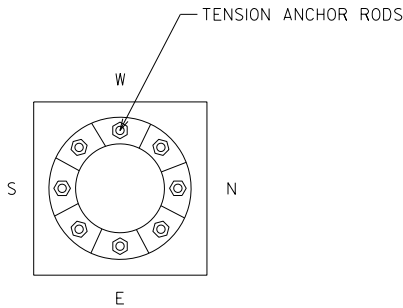
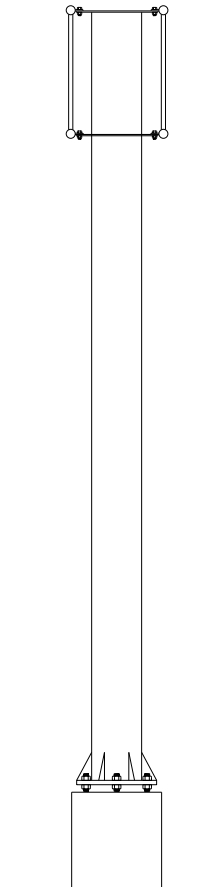
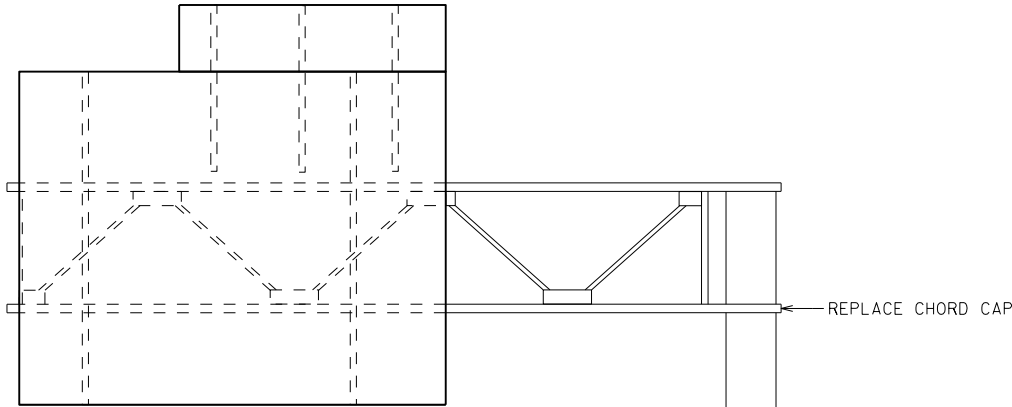
LOOKING SOUTH



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-15-18			SHEET 16



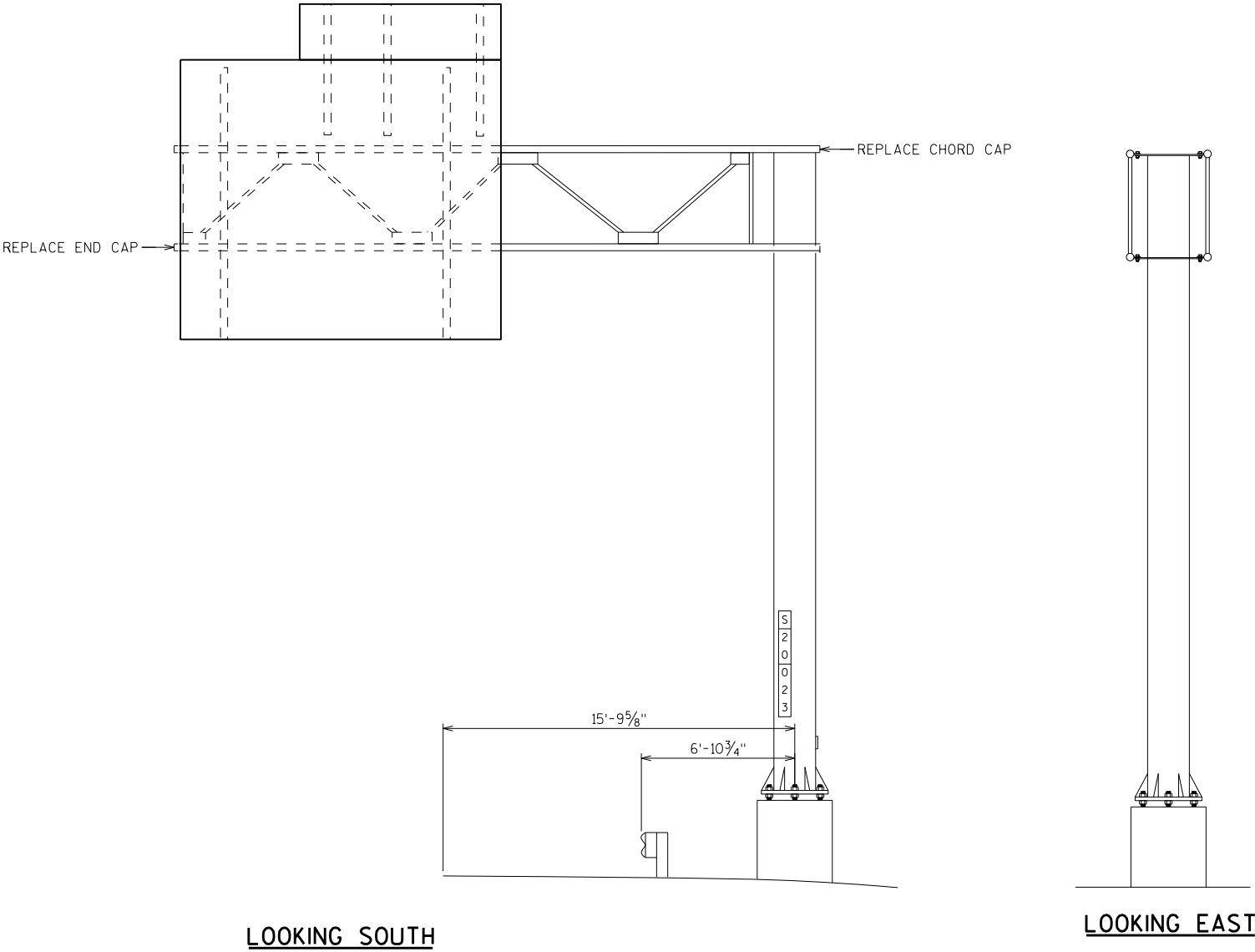
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LOOKING WEST

FOUNDATION DETAIL

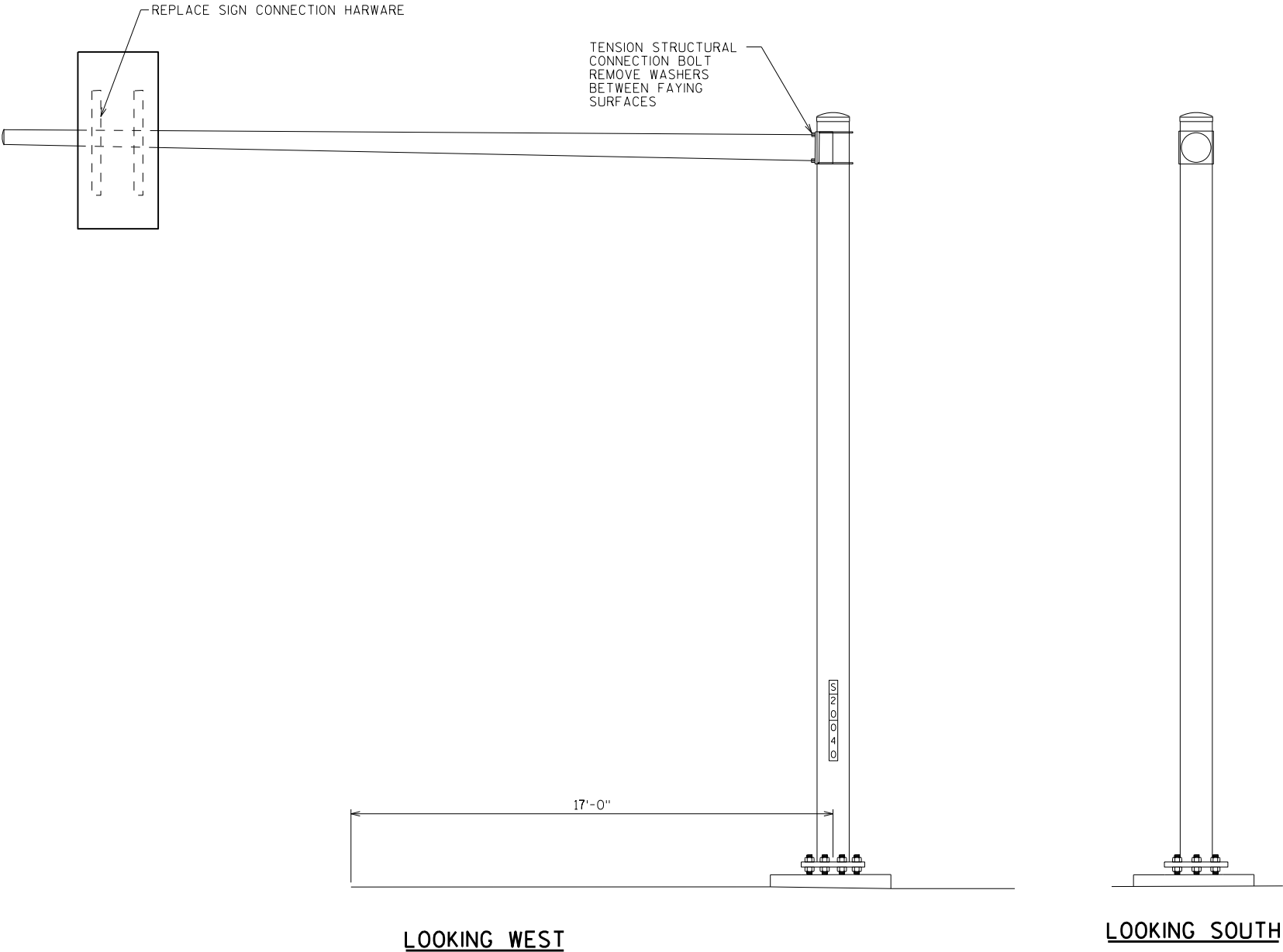
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2
SPV.0060.08	SECURE/REPLACE CAP	1 EACH	3

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS		DRAWN BY DDS	PLANS CK'D. SAD
S-20-22		SHEET 17	



ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.08	SECURE/REPLACE CAP	2 EACH	3

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-20-23			SHEET 18

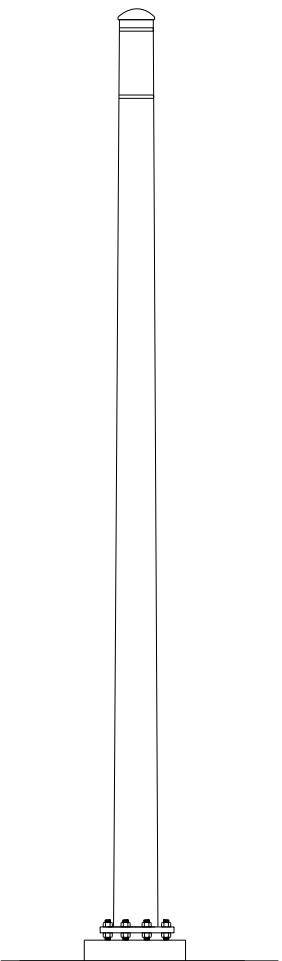
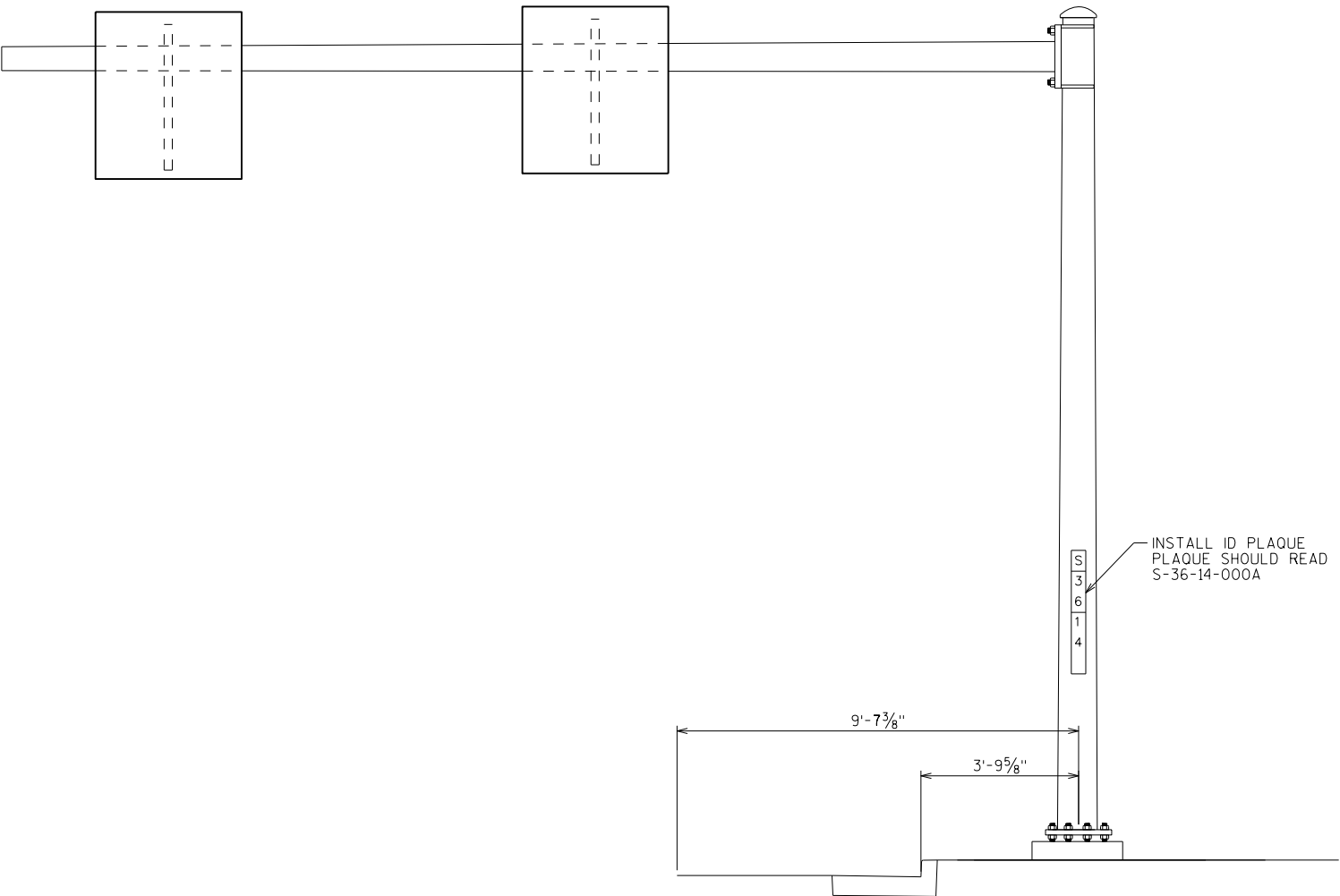


LOOKING WEST

LOOKING SOUTH

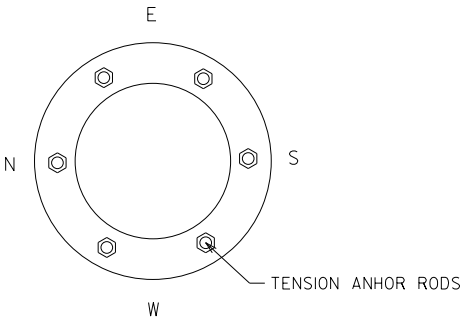
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.06	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	4 EACH	3
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	1 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-20-40			SHEET 19



LOOKING EAST

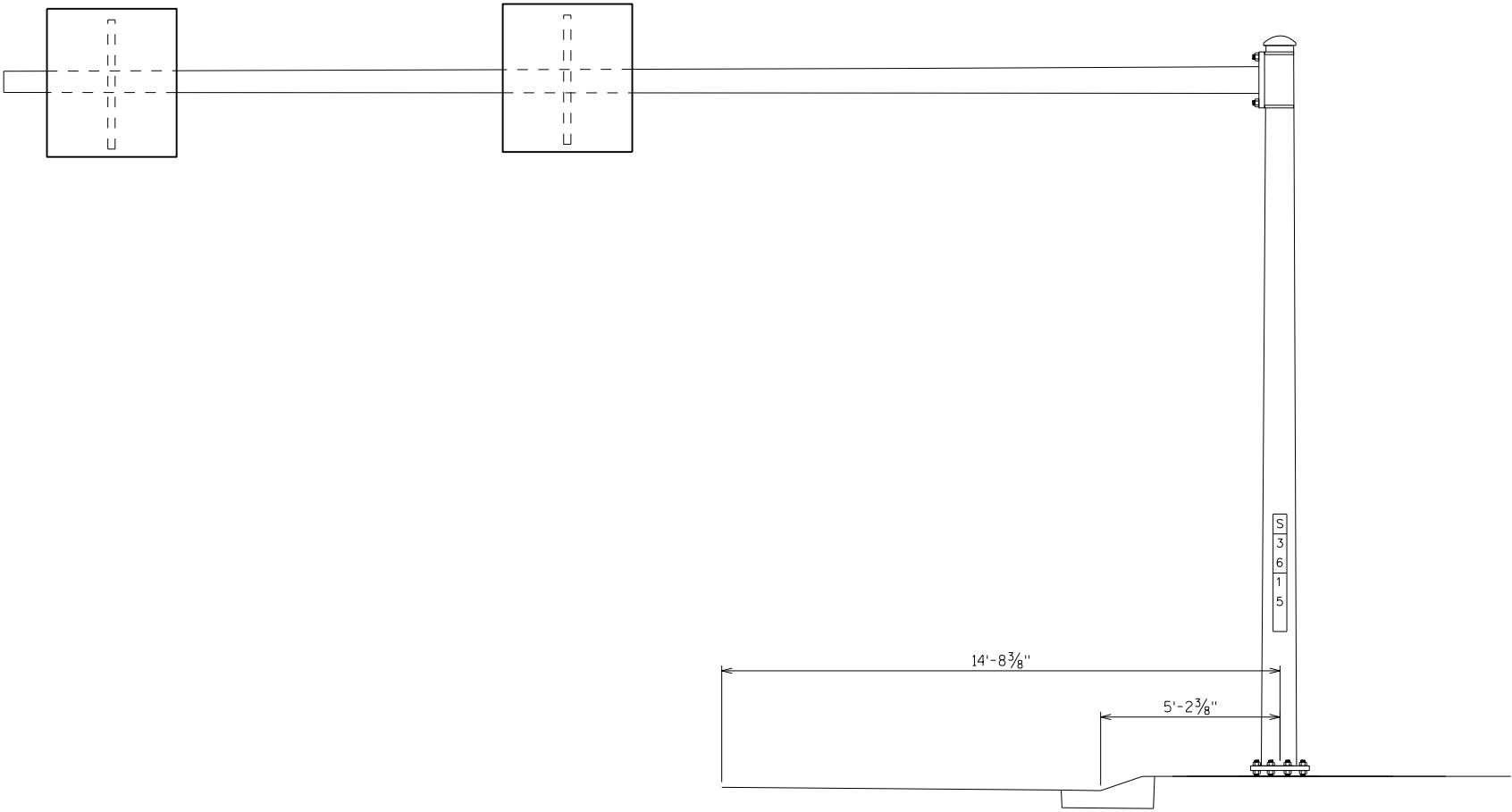
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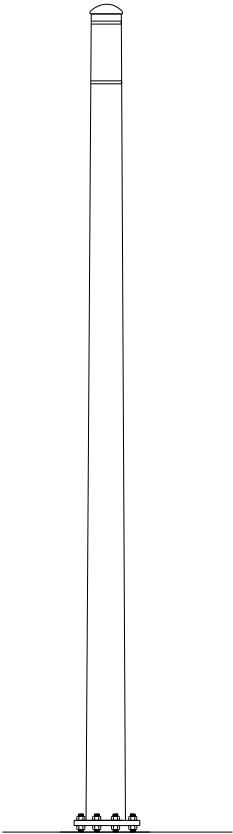
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.13	INSTALL ID PLAQUE	1 EACH	5

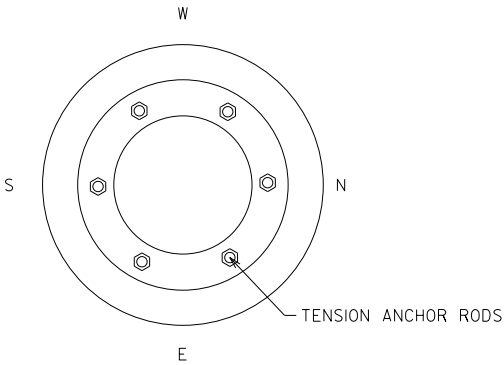
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY DDS	PLANS CK'D. SAD
S-36-14-A		SHEET 20	



LOOKING WEST



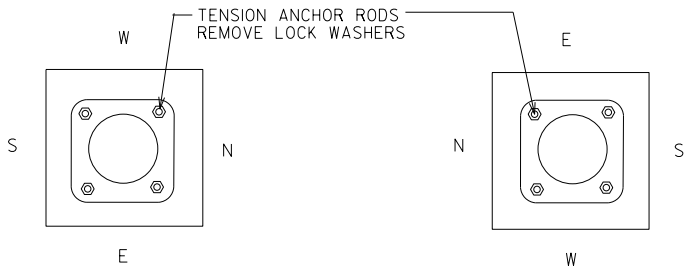
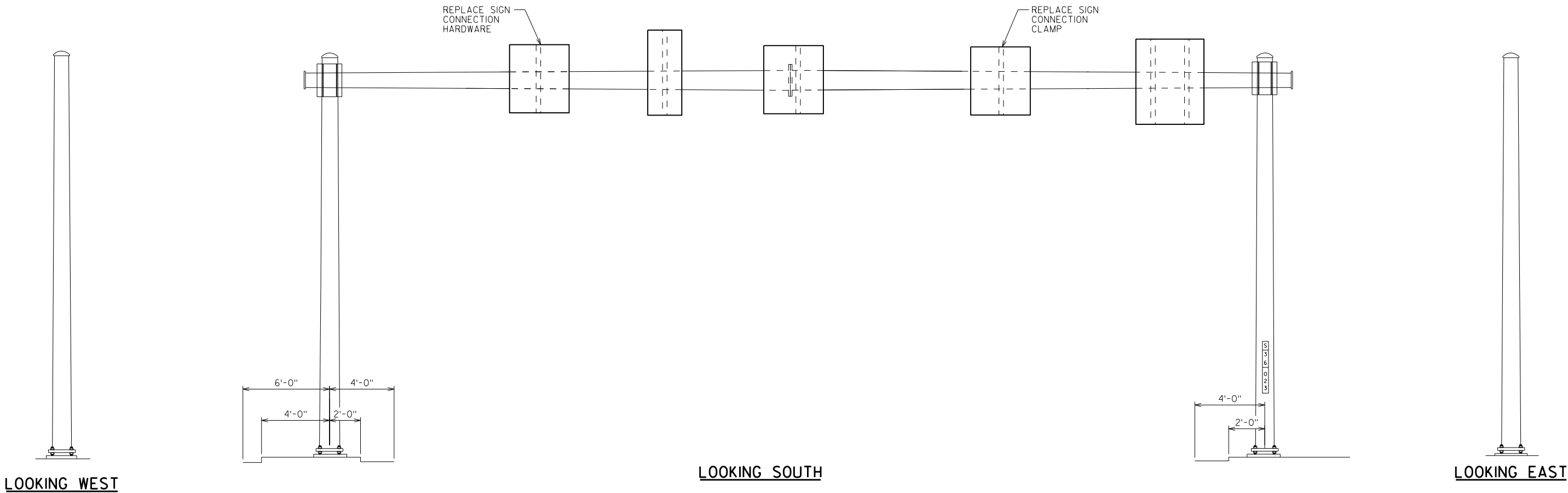
LOOKING SOUTH



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2

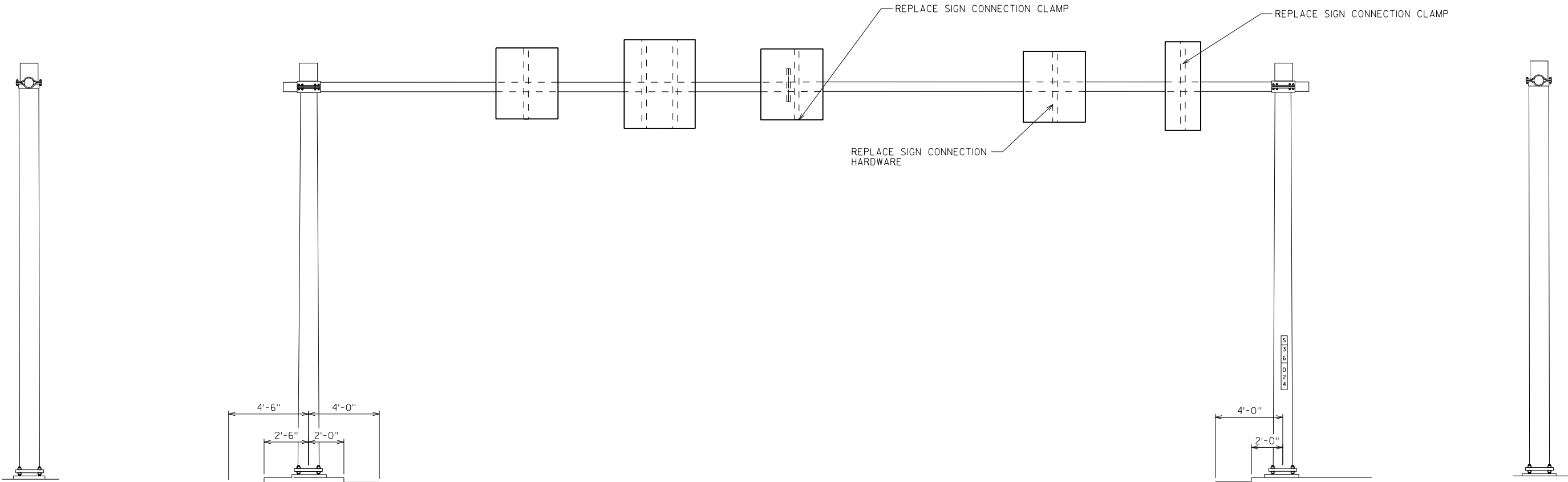
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-36-15			SHEET 21



WEST FOUNDATION DETAIL EAST FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	1 EACH	5
SPV.0060.11	REPLACE SIGN CONNECTION CLAMP	1 EACH	5

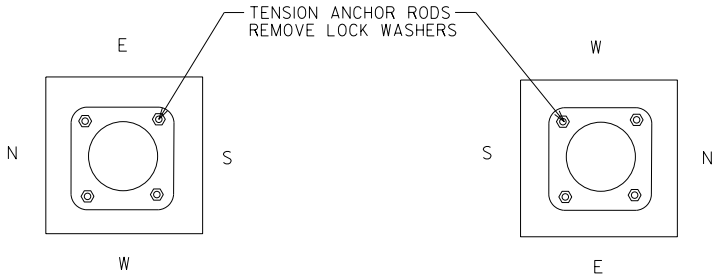
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-36-23		SHEET 22	



LOOKING EAST

LOOKING NORTH

LOOKING WEST

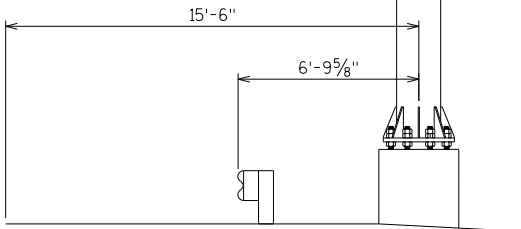
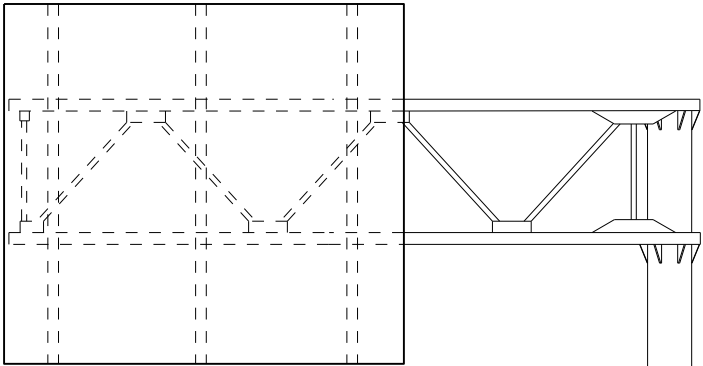


WES FOUNDATION DETAIL

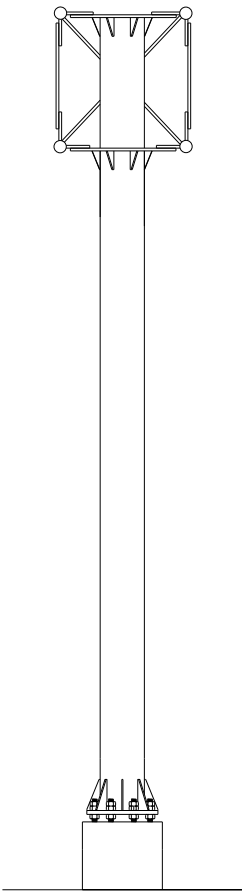
EAST FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	1 EACH	5
SPV.0060.11	REPLACE SIGN CONNECTION CLAMP	2 EACH	5

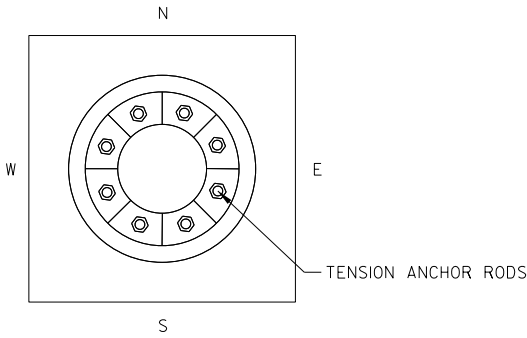
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-36-24		SHEET 23	



LOOKING NORTH



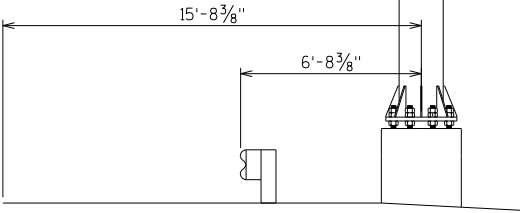
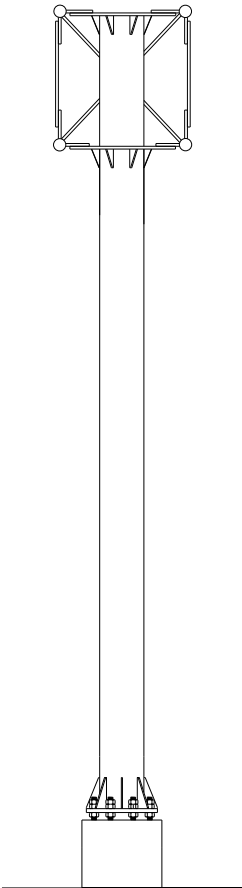
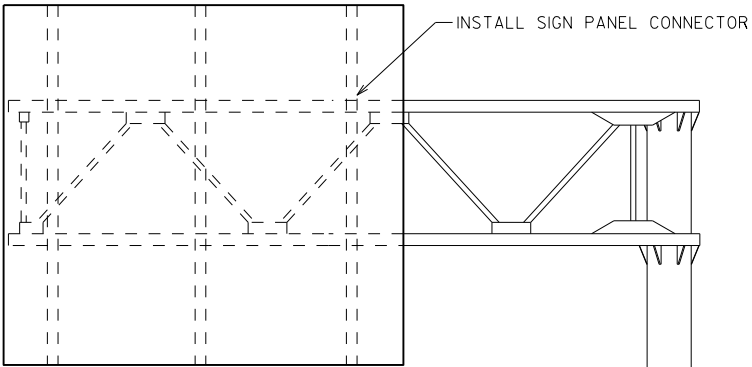
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FOUNDATION DETAIL

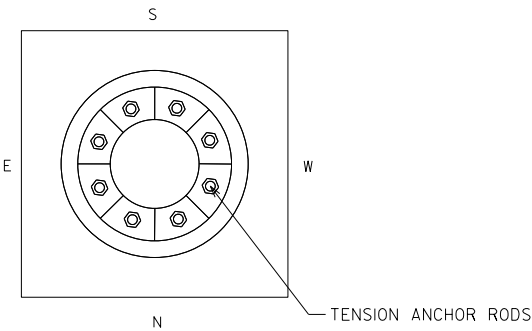
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-38-07		SHEET 24	



LOOKING SOUTH

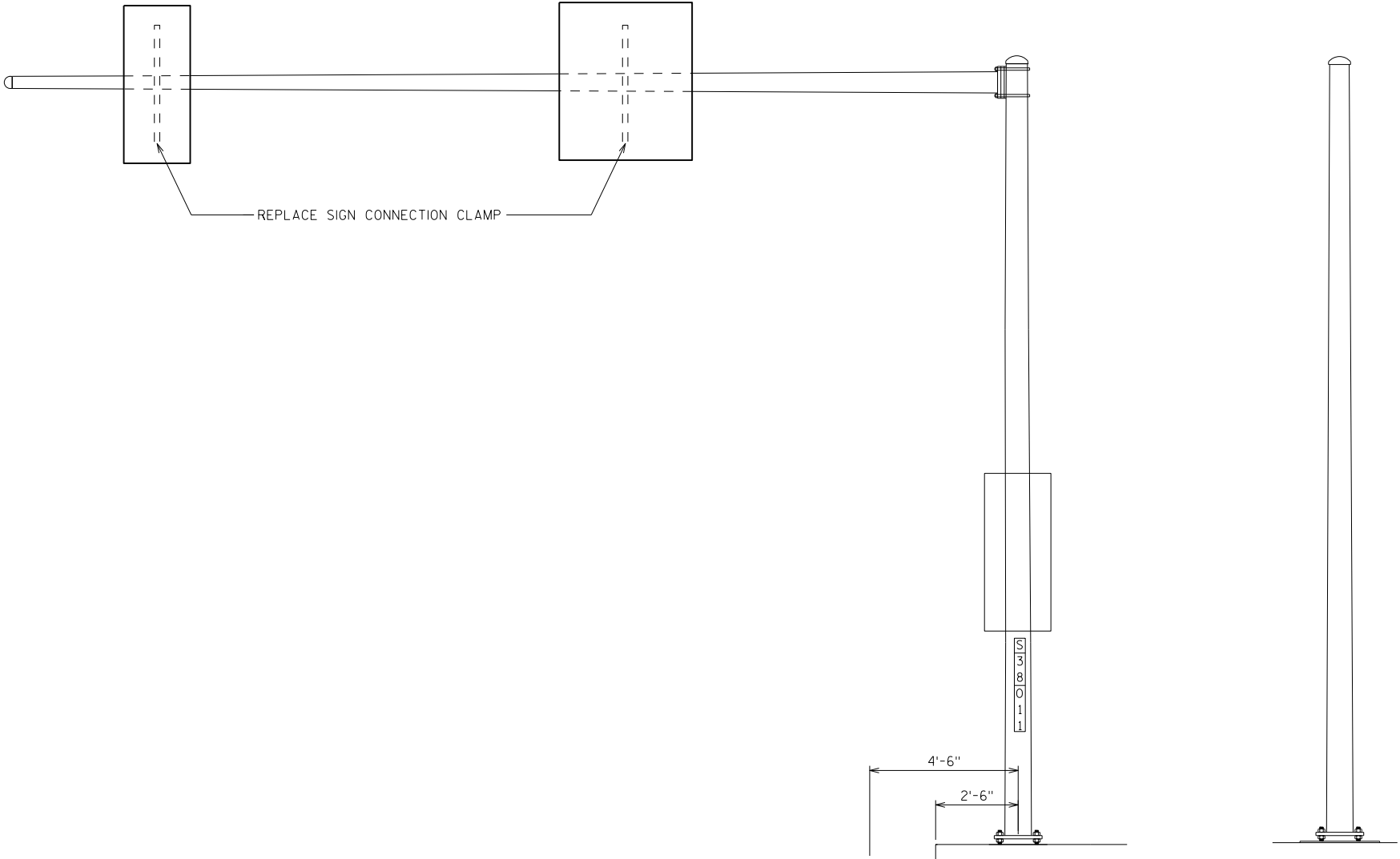
LOOKING EAST



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2
SPV.0060.14	INSTALL SIGN PANEL CONNECTOR	1 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY DDS	PLANS CK'D. SAD
S-38-08		SHEET 25	



LOOKING WEST

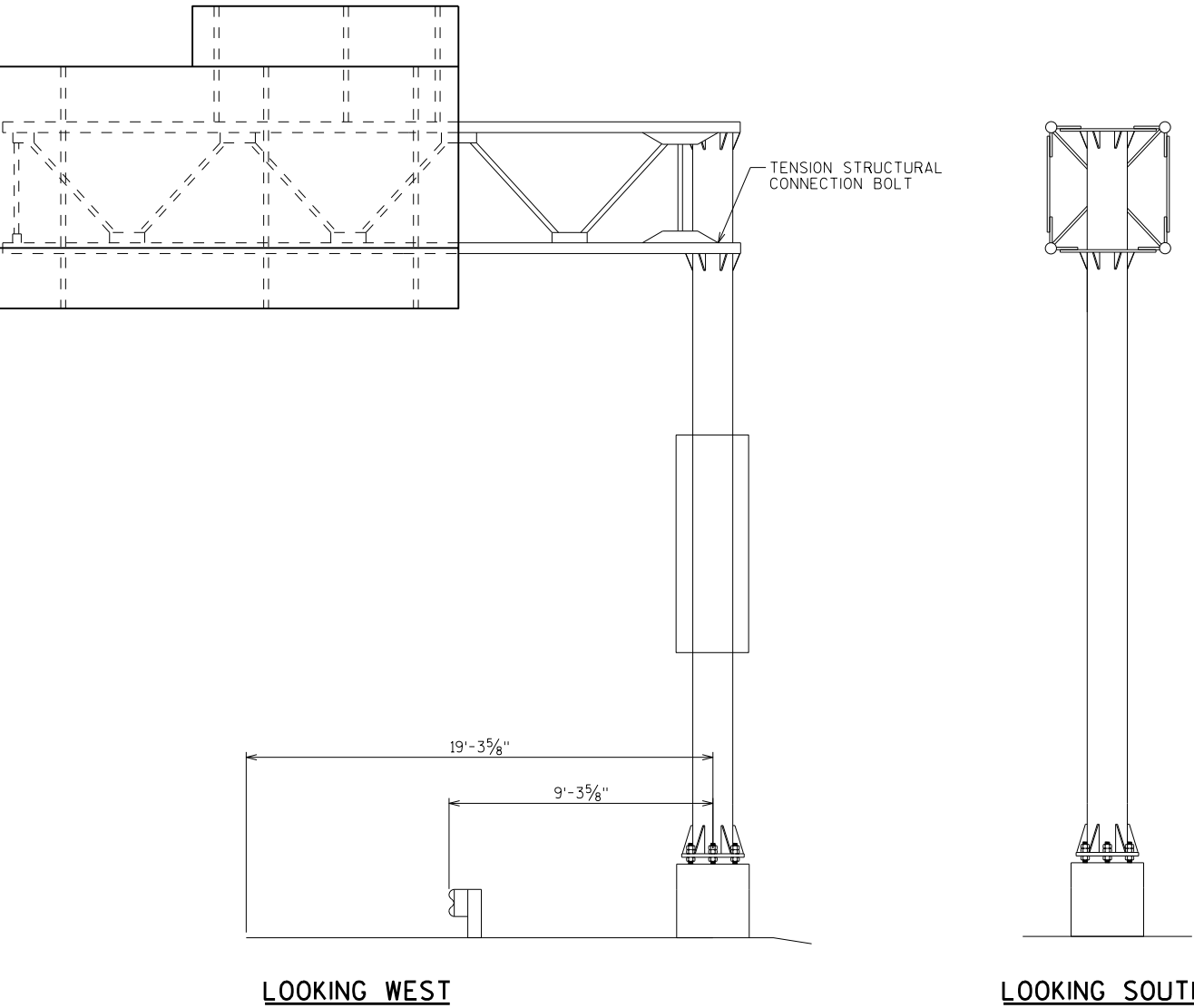
LOOKING SOUTH

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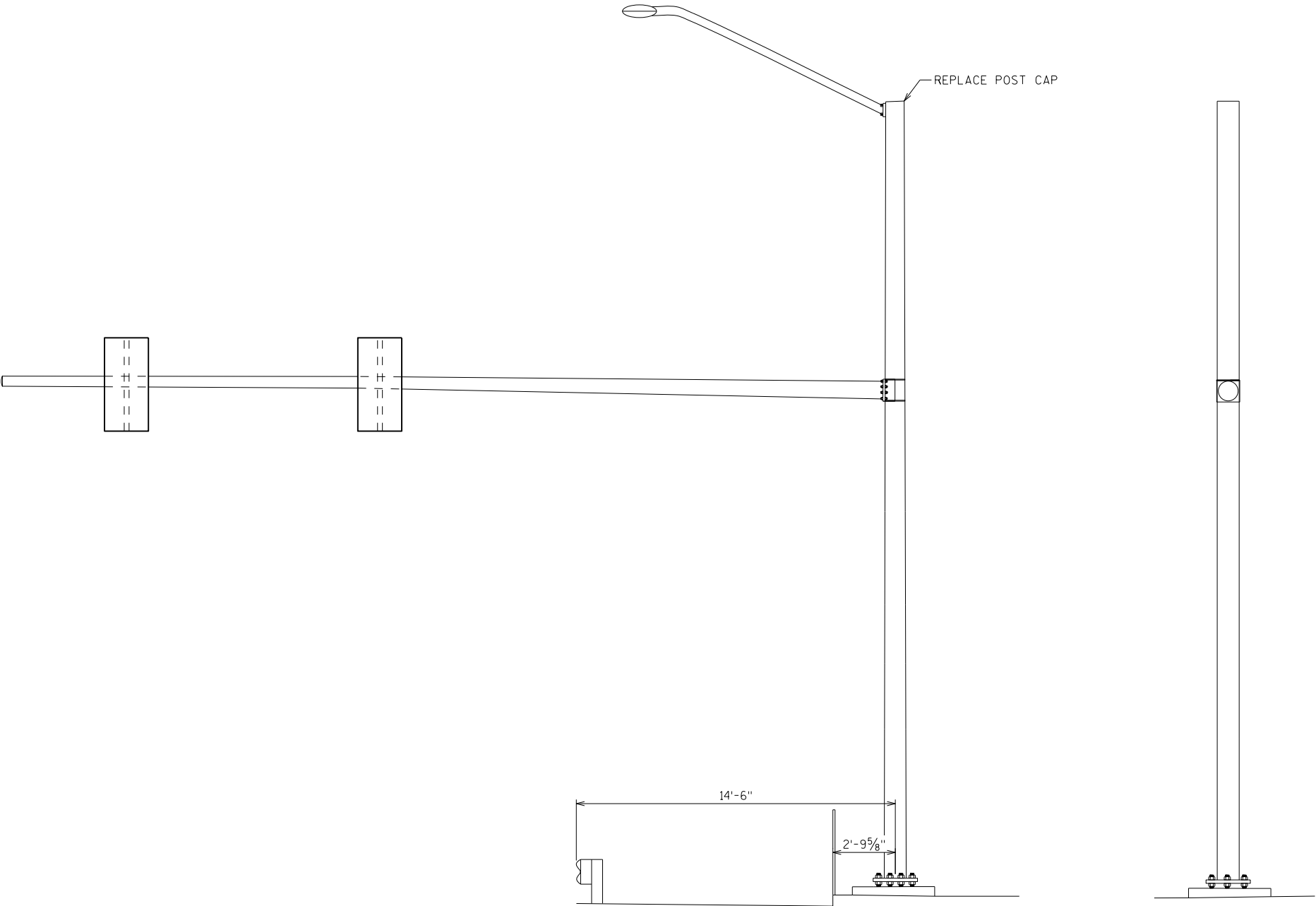
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.11	REPLACE SIGN CONNECTION CLAMP	2 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
S-38-11		SHEET 26	



ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.06	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	1 EACH	3

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
S-44-32		SHEET 27	

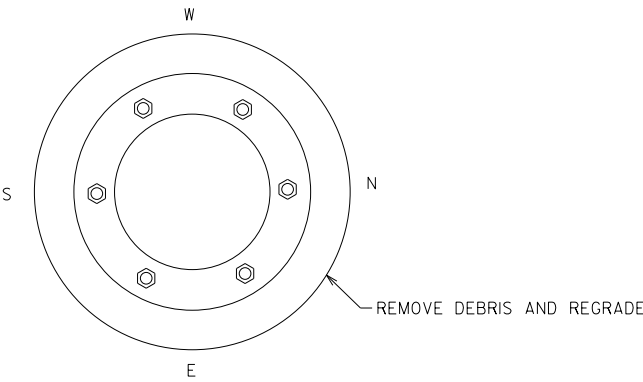
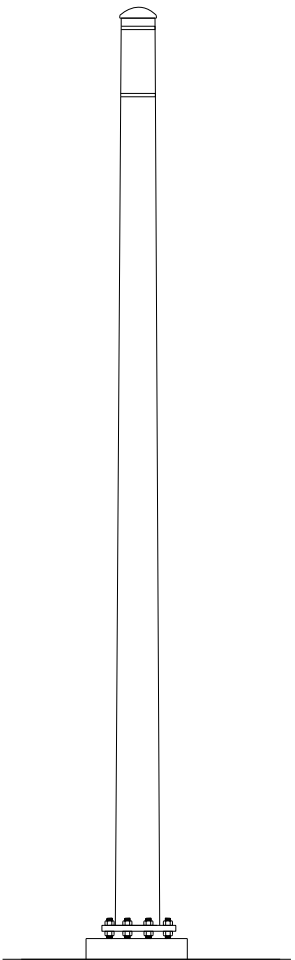
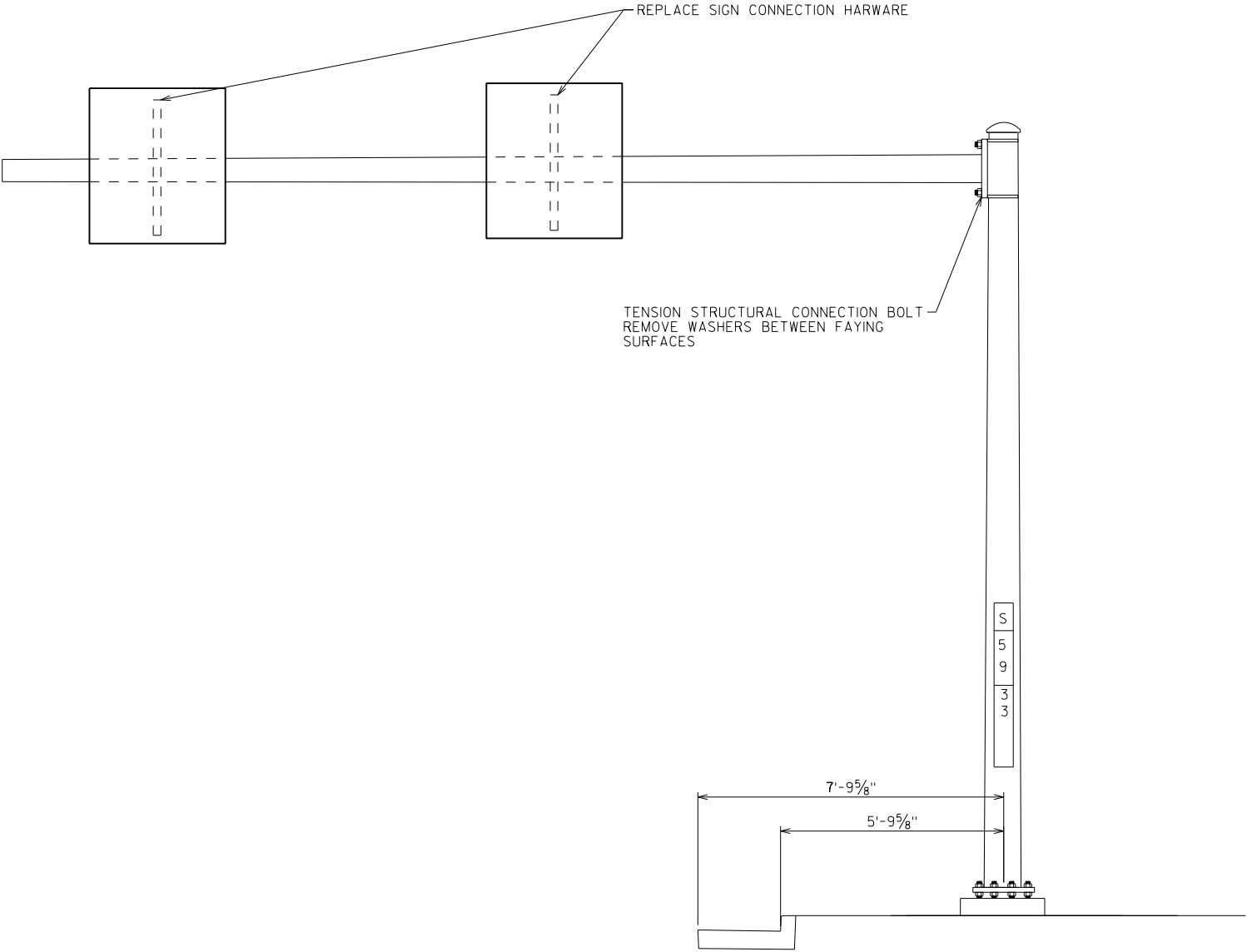


LOOKING SOUTH

LOOKING EAST

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.08	SECURE/REPLACE CAP	1 EACH	3

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
S-44-106		SHEET 28	



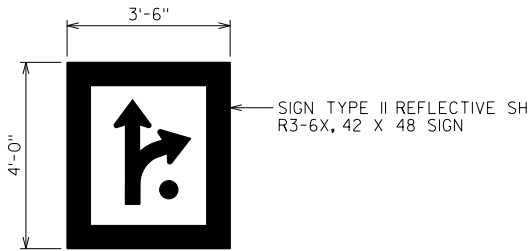
LOOKING WEST

LOOKING SOUTH

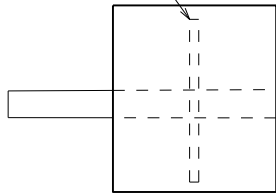
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.02	REMOVE DEBRIS AND REGRADE	1 EACH	2
SPV.0060.06	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	4 EACH	3
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	2 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS		DRAWN BY DDS	PLANS CK'D. SAD
S-59-33		SHEET 29	



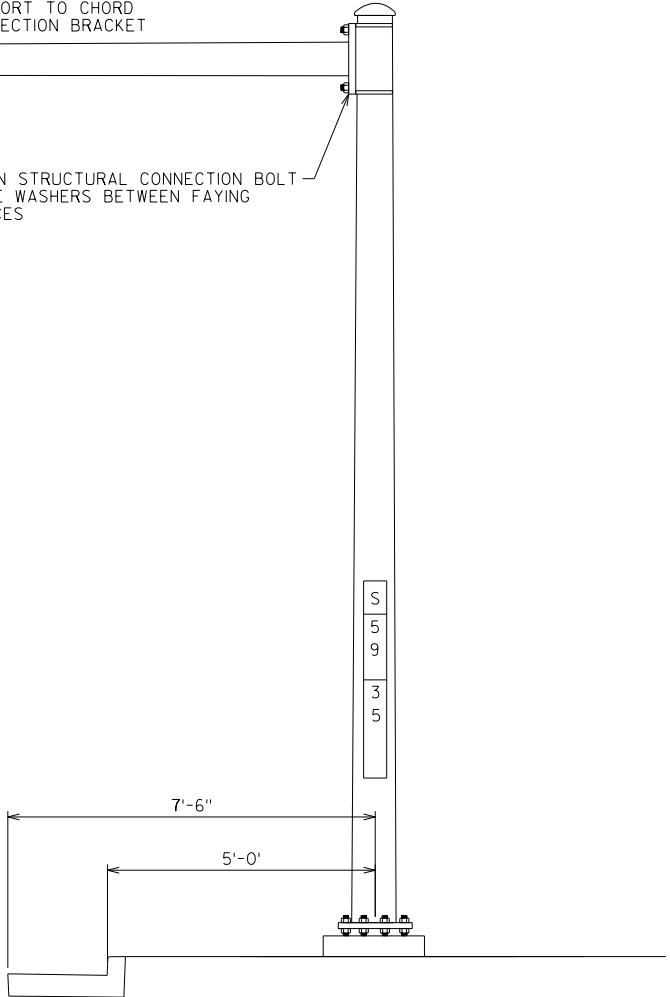
REPLACE SIGN CONNECTION
HARDWARE



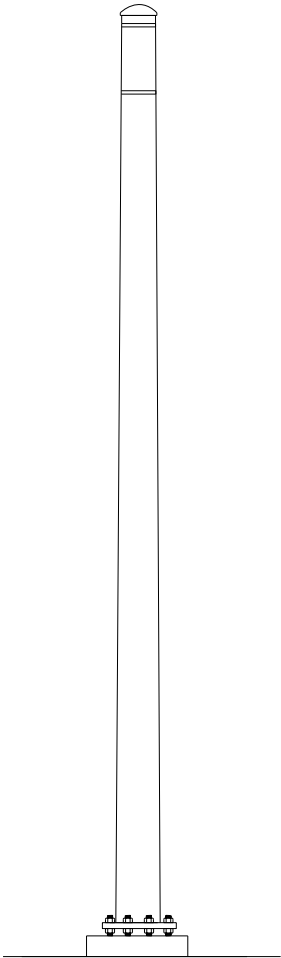
REPLACE VERTICAL SIGN
SUPPORT TO CHORD
CONNECTION BRACKET

EXISTING SIGN
MISSING

TENSION STRUCTURAL CONNECTION BOLT
REMOVE WASHERS BETWEEN FAYING
SURFACES



LOOKING WEST



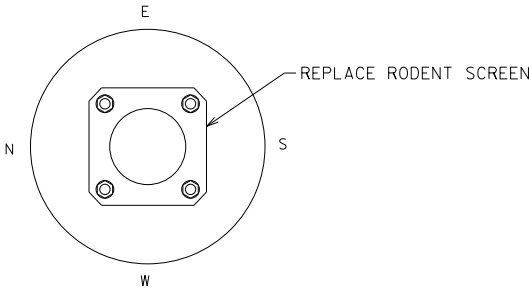
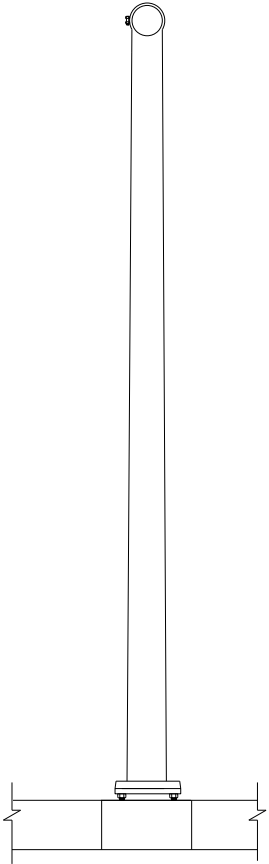
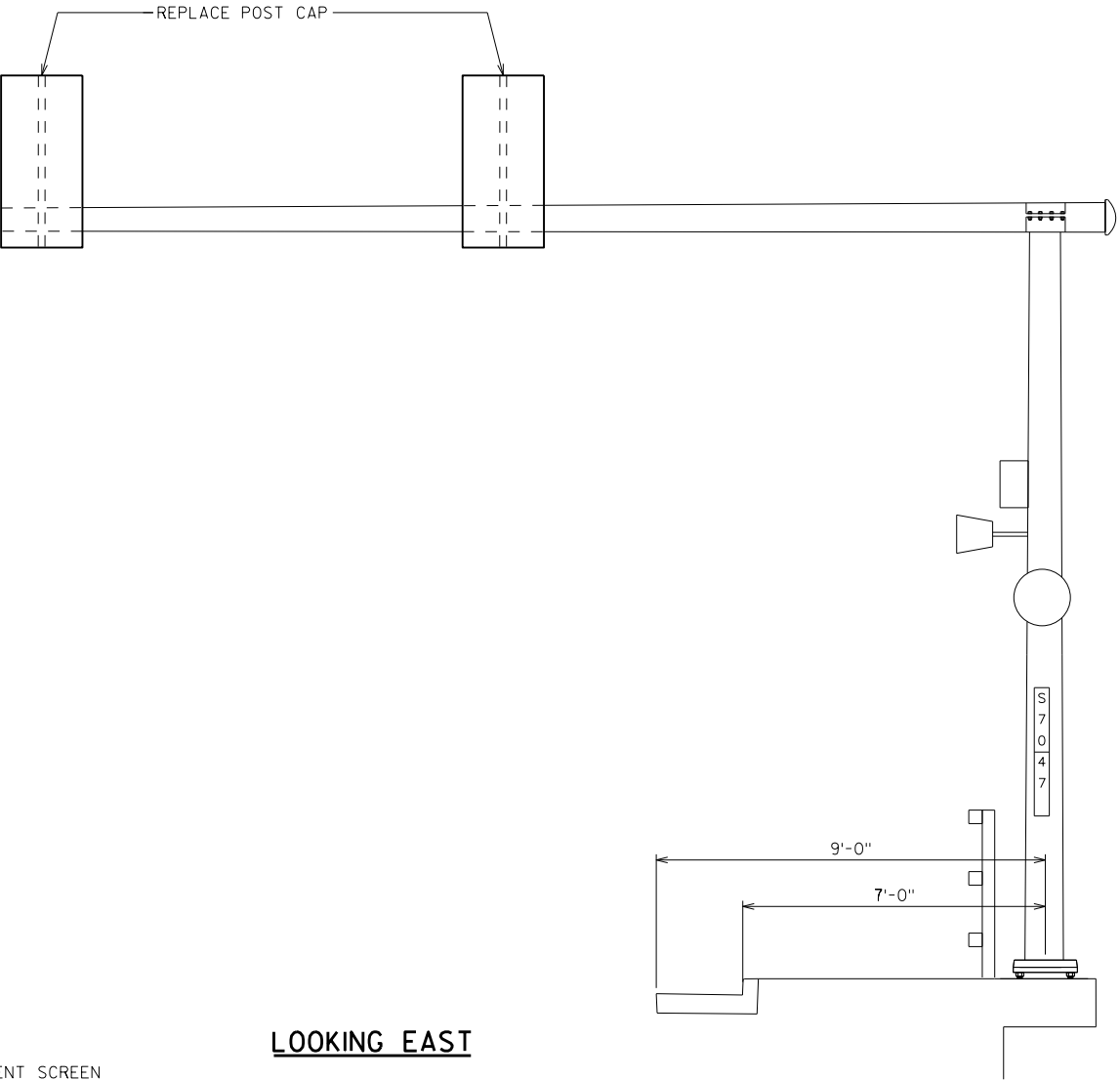
LOOKING SOUTH

8

8

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
637.2220	SIGN TYPE II REFLECTIVE SH	14 SF	5
SPV.0060.06	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	4 EACH	3
SPV.0060.09	REPLACE TYPE II SUPPORT BRACKET	1 EACH	5
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	1 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-59-35		SHEET 30	



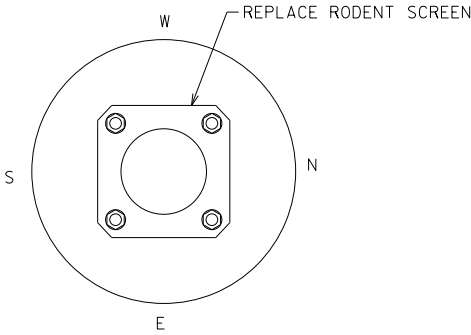
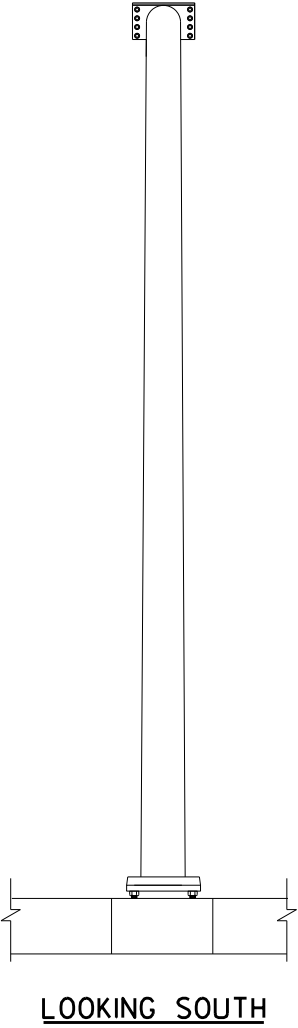
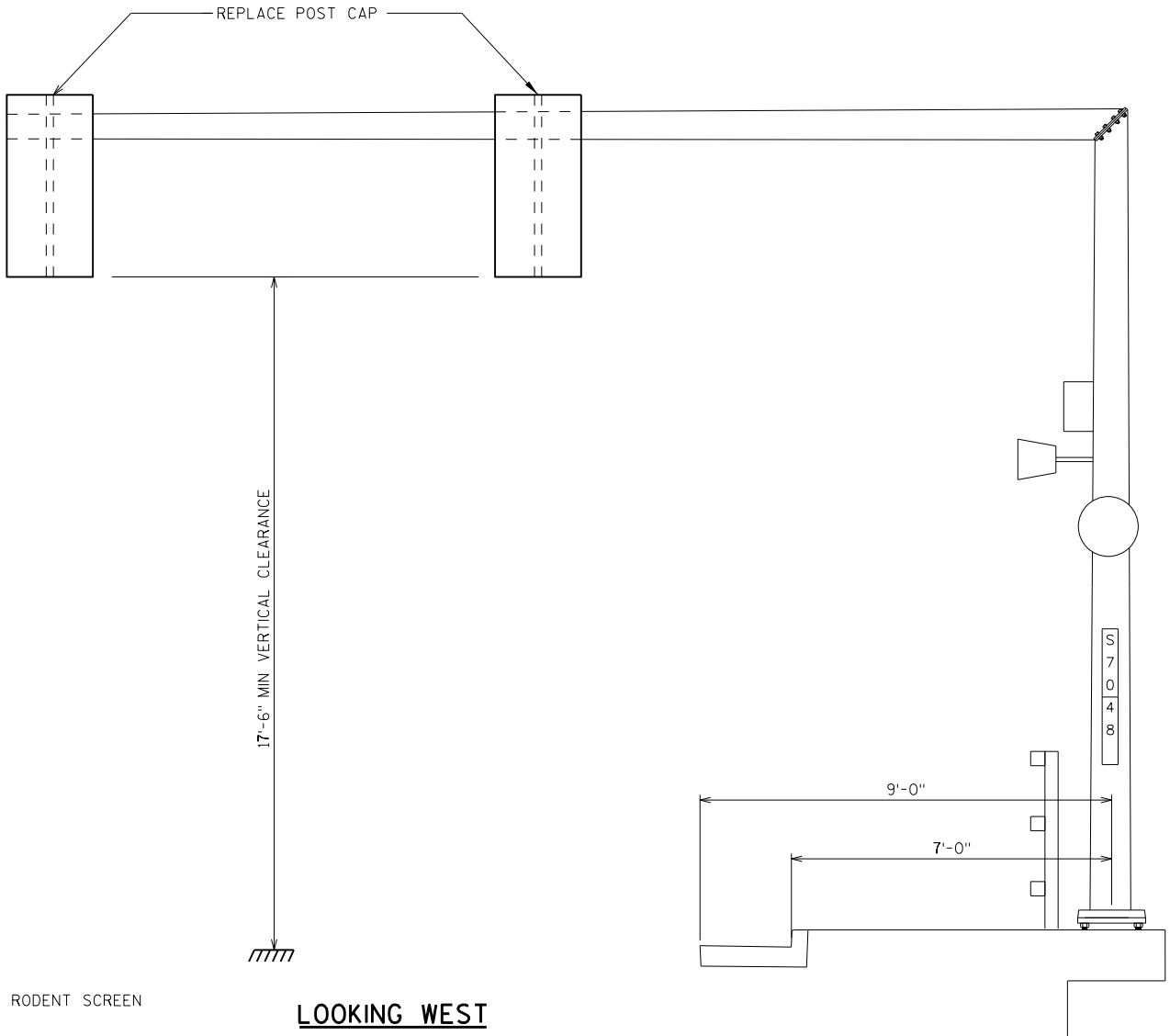
LOOKING EAST

LOOKING NORTH

FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.03	REPLACE RODENT SCREEN	1 EACH	2
SPV.0060.08	SECURE/REPLACE CAP	2 EACH	3

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-70-47			SHEET 31



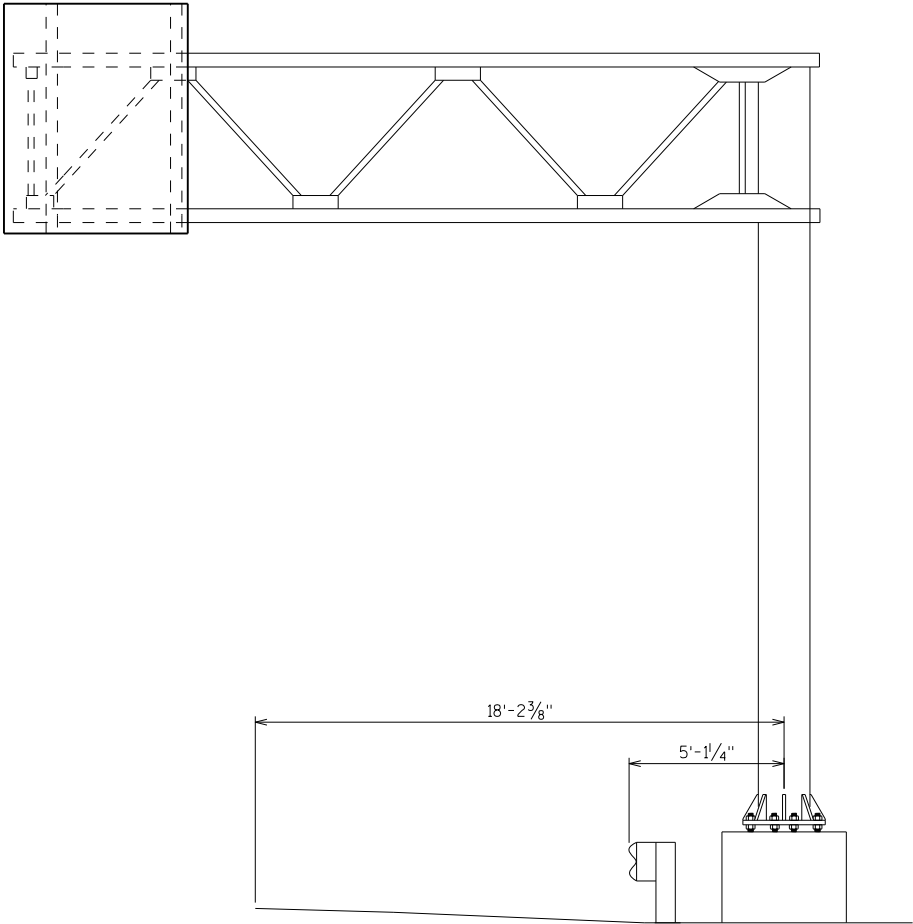
FOUNDATION DETAIL

LOOKING WEST

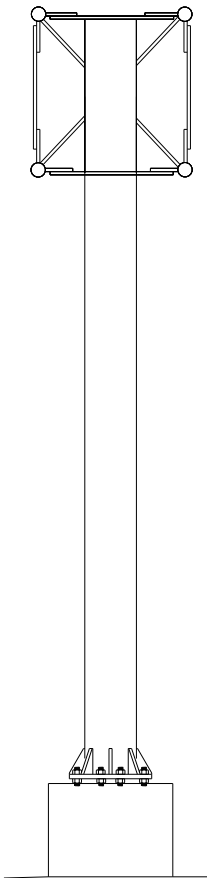
LOOKING SOUTH

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.03	REPLACE RODENT SCREEN	1 EACH	2
SPV.0060.08	SECURE/REPLACE CAP	2 EACH	3
SPV.0060.15	ADJUST VERTICAL CLEARANCE	2 EACH	5

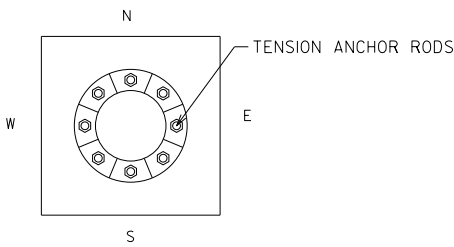
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-70-48		SHEET 32	



LOOKING SOUTH



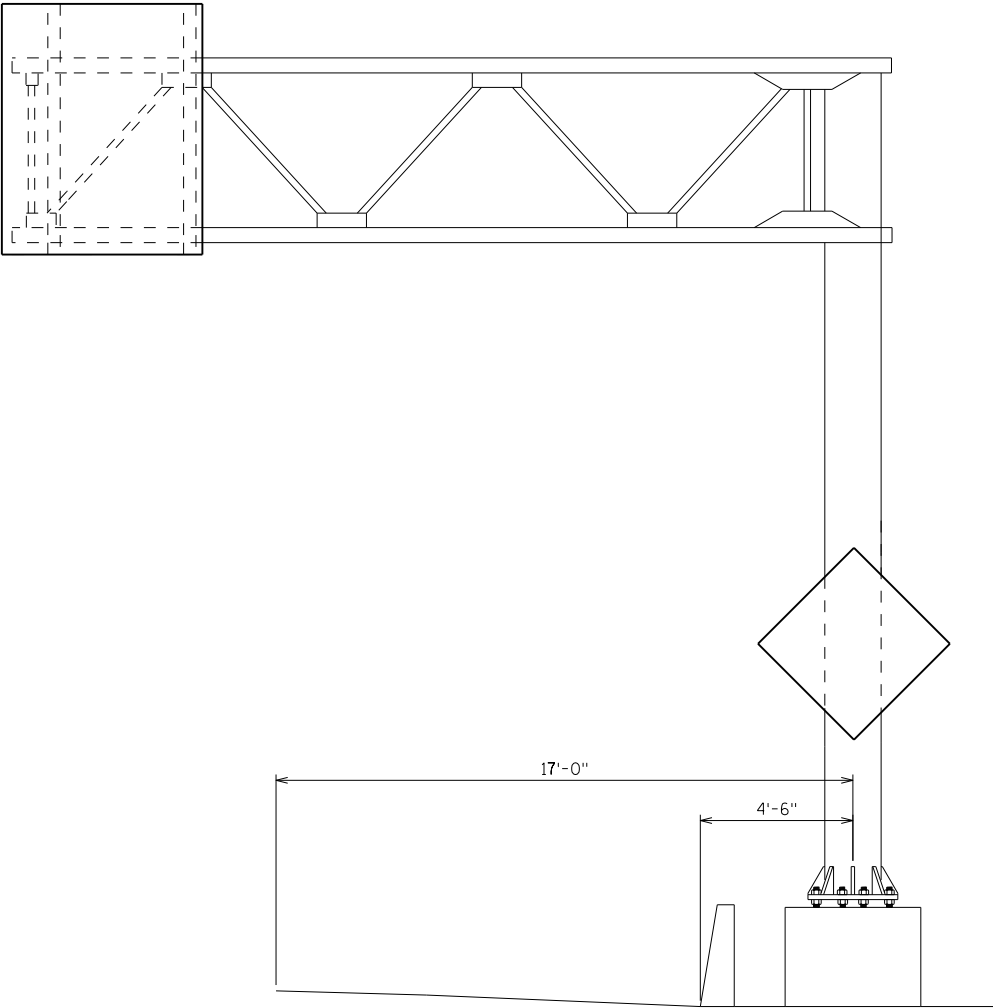
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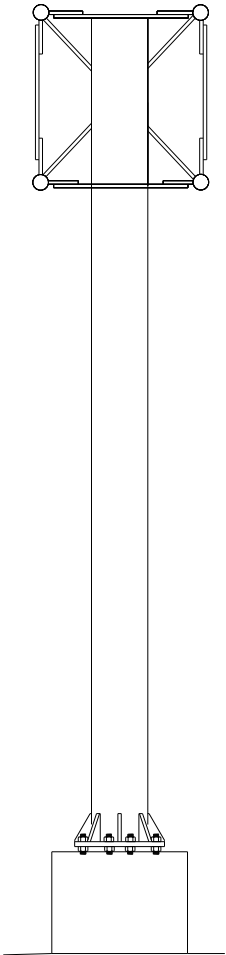
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

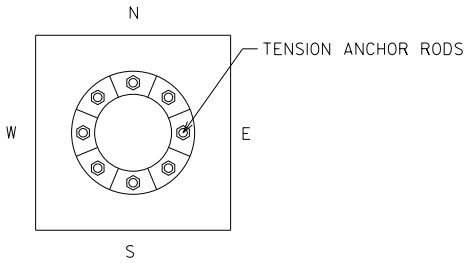
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-70-52			SHEET 33



LOOKING SOUTH



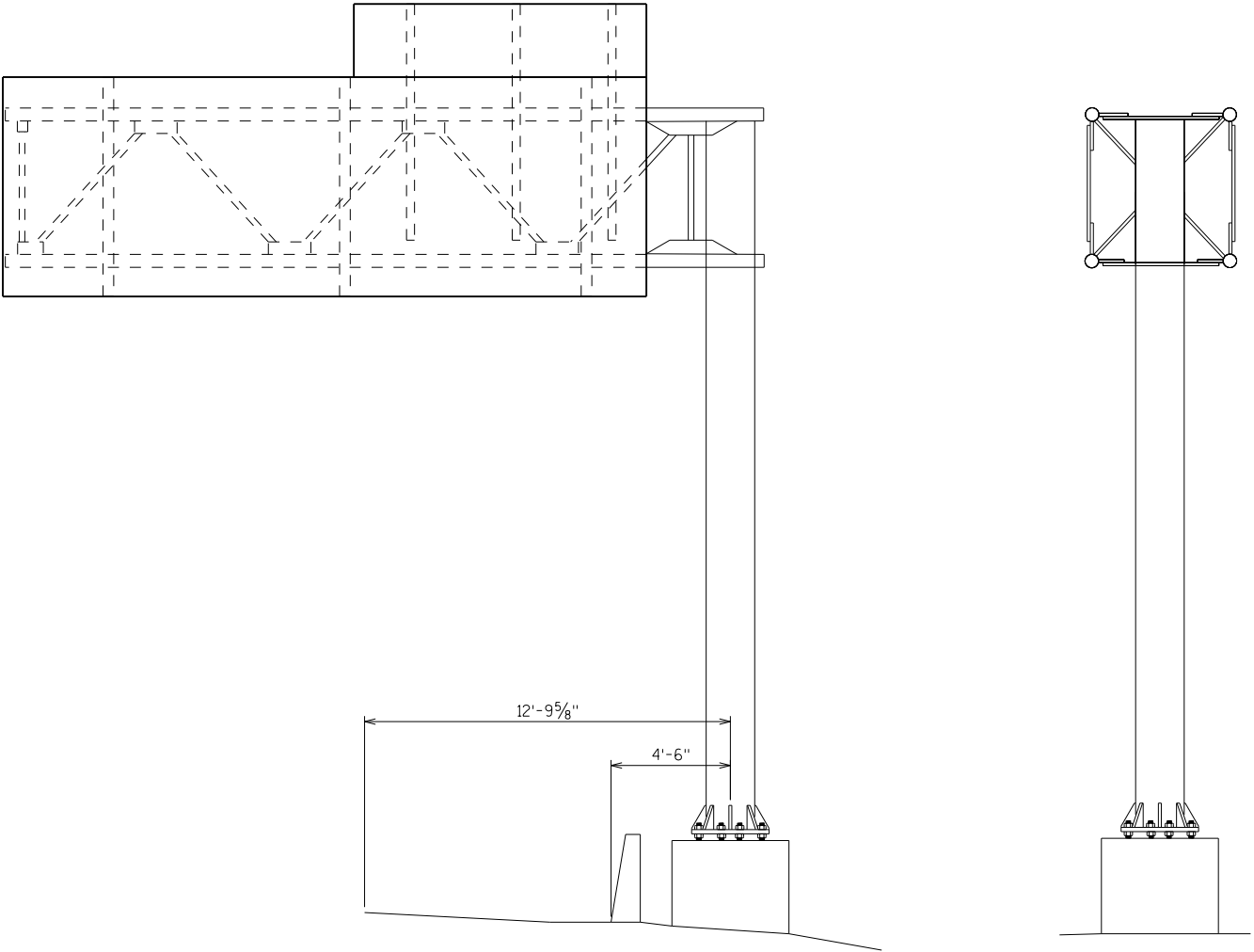
LOOKING EAST



FOUNDATION DETAIL

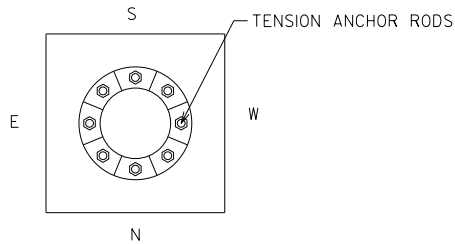
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-70-53			SHEET 34



LOOKING SOUTH

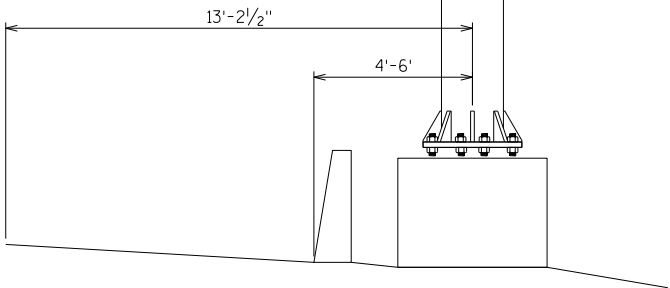
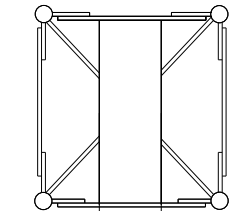
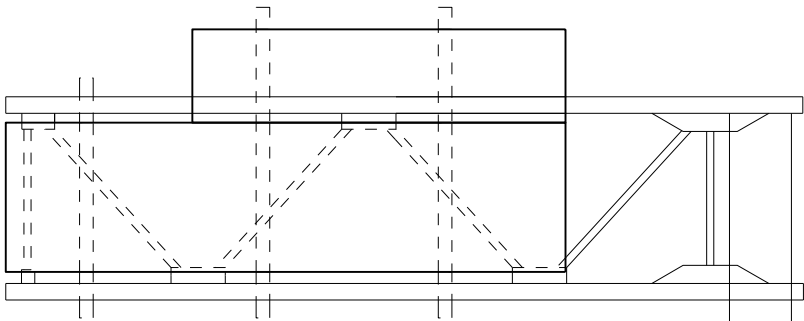
LOOKING EAST



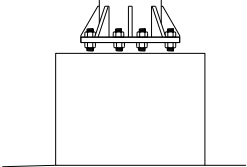
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

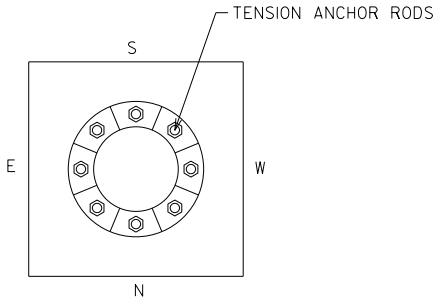
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-70-56		SHEET 35	



LOOKING SOUTH



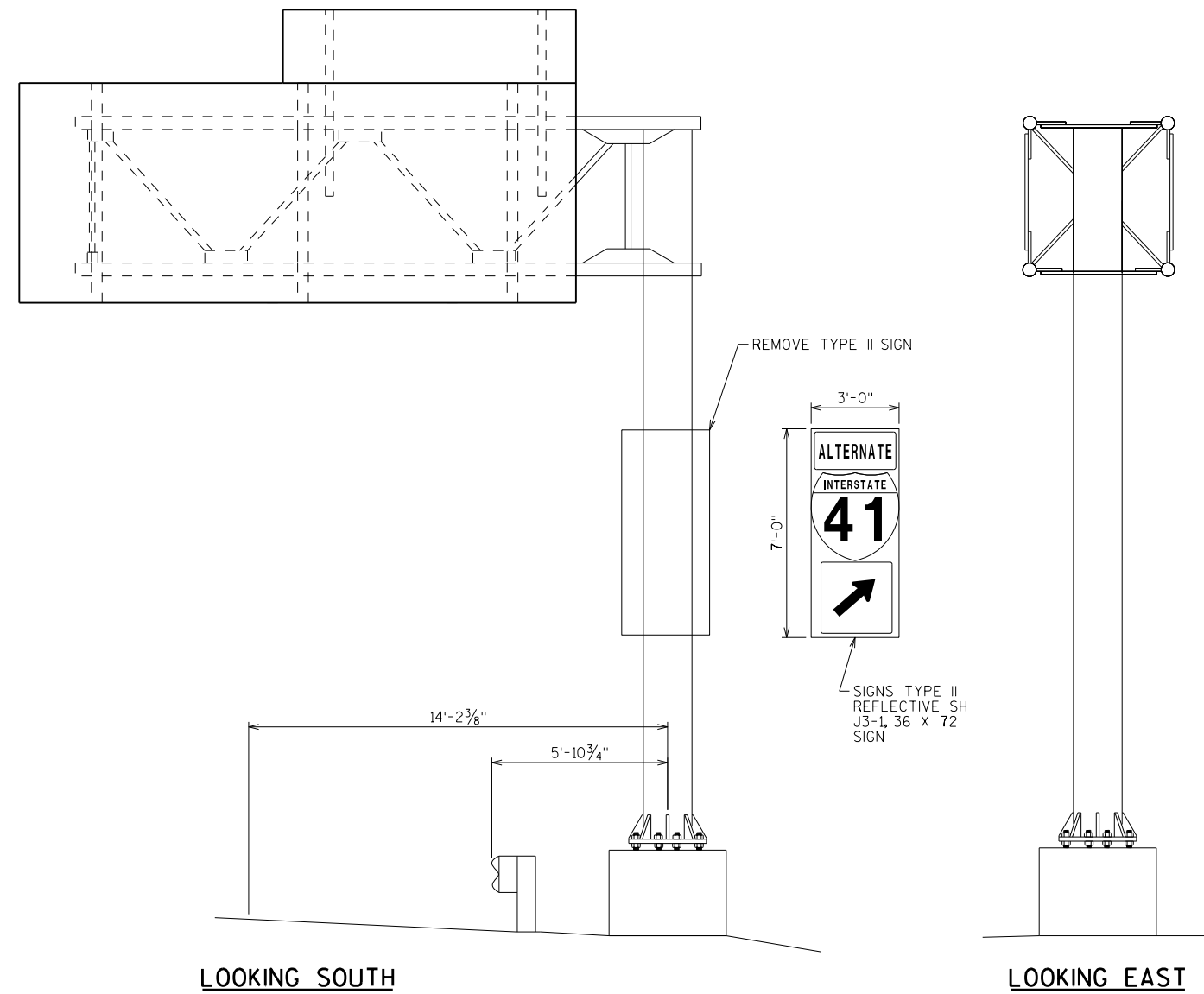
LOOKING EAST



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D. SAD
		DDS	
S-70-59		SHEET 36	

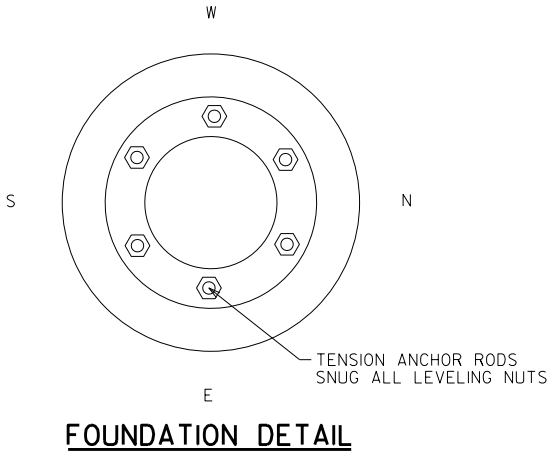
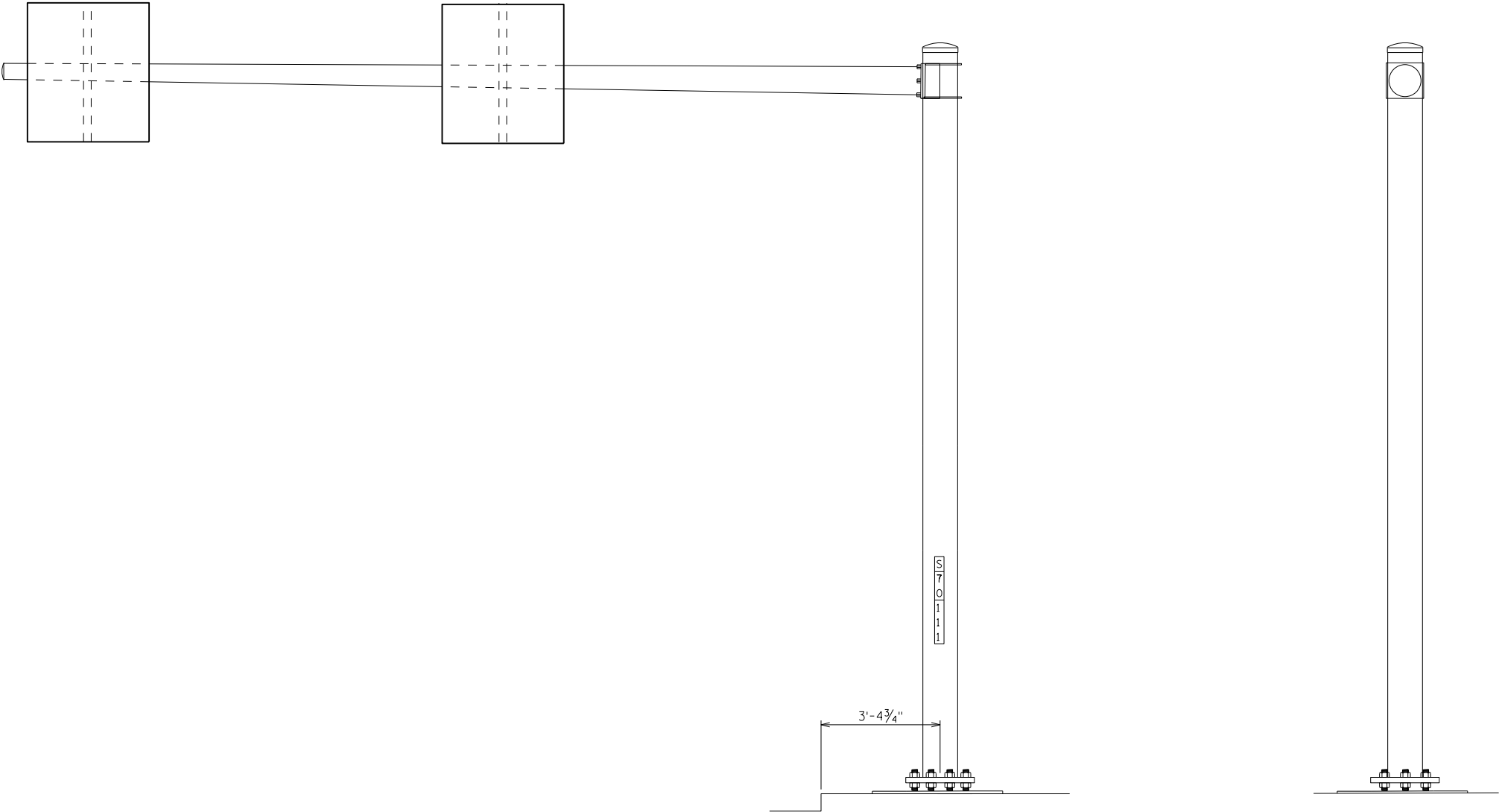


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8 |

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-70-68		SHEET 37	

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
637.2220	SIGNS TYPE II REFLECTIVE SH	21 SF	5
638.2602	REMOVING SIGNS TYPE II	1 EACH	5

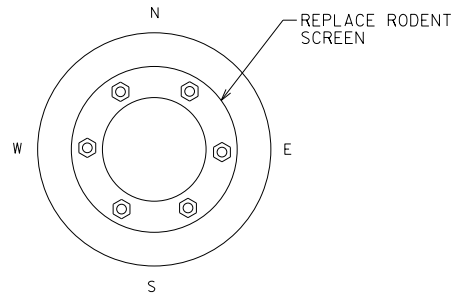
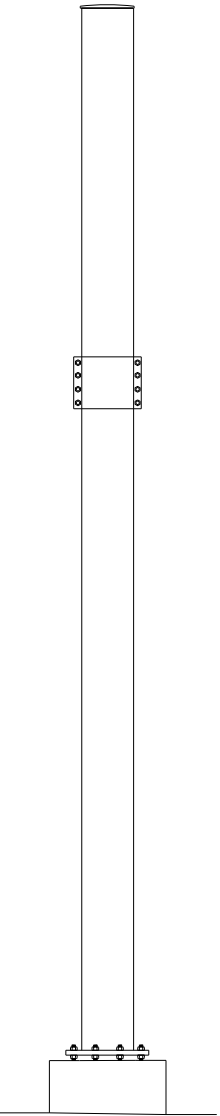
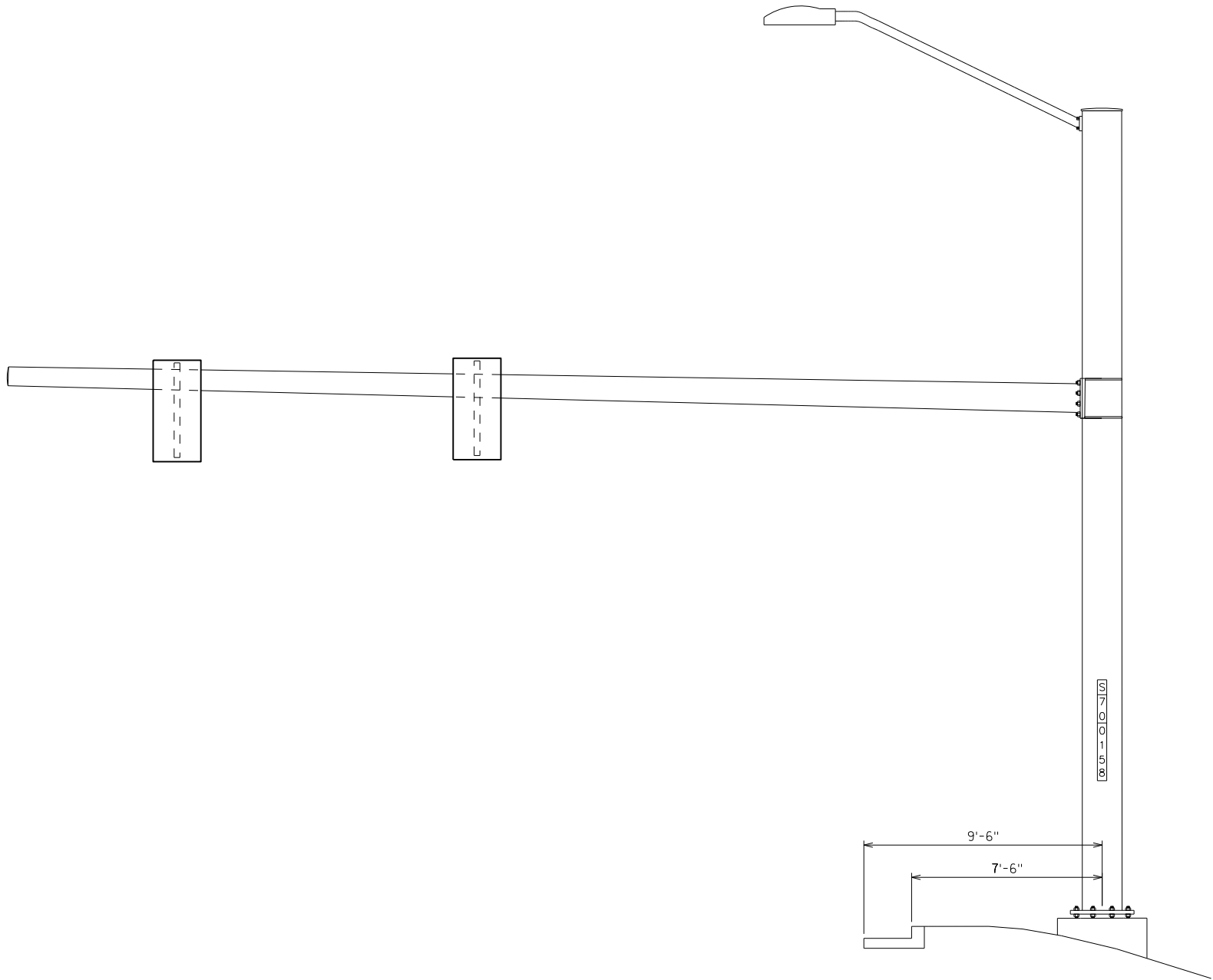


LOOKING NORTH

LOOKING WEST

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-70-111		SHEET 38	



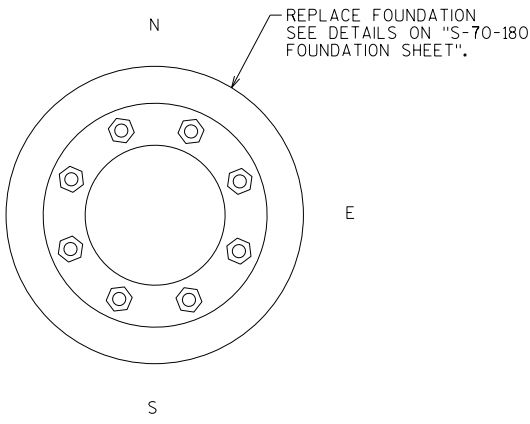
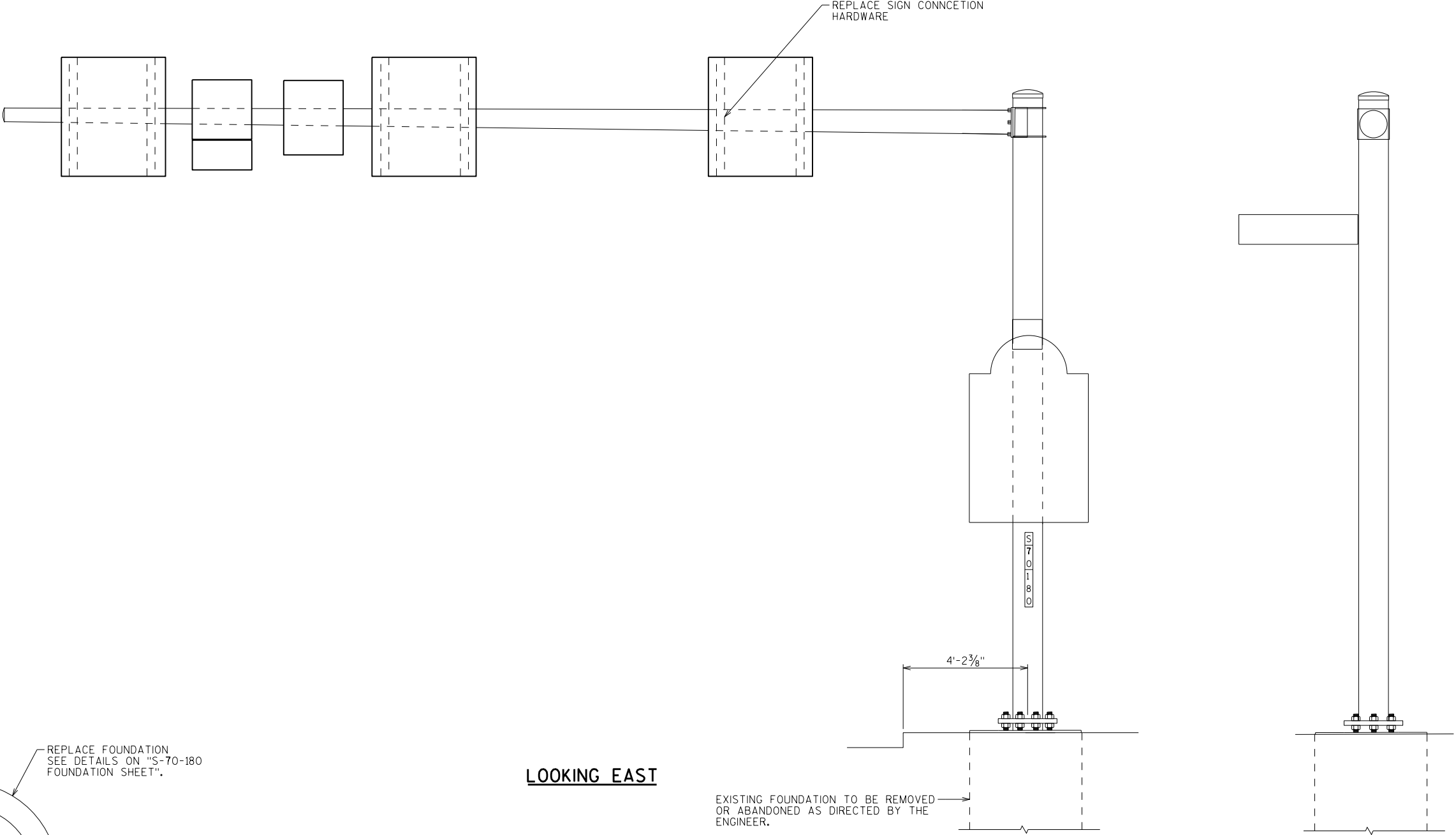
FOUNDATION DETAIL

LOOKING NORTH

LOOKING WEST

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.03	REPLACE RODENT SCREEN	1 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-70-158			SHEET 39



FOUNDATION DETAIL

LOOKING EAST

EXISTING FOUNDATION TO BE REMOVED OR ABANDONED AS DIRECTED BY THE ENGINEER.

LOOKING NORTH

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.04	REPLACE FOUNDATION	1 EACH	2
SPV.0060.10	REPLACE SIGN CONNECTION HARDWARE	1 EACH	5

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
		DRAWN BY	PLANS CK'D.
		DDS	SAD
S-70-180			SHEET 40

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE FOUNDATION DESIGNS ARE NOT ALLOWED.

ALL STRUCTURAL STEEL MEMBERS, PLATES, ANCHOR RODS, H.S. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.

* CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATION OF TEMPLATES AND ANCHOR RODS. MATCH EXISTING ANCHOR DIAMETER, BOLT CIRCLE AND ORIENTATION OF ANCHOR RODS OF THE EXISTING BASE PLATE. ANCHOR RODS MUST BE INSTALLED PLUMB AND CENTERED IN NEW SHAFT.

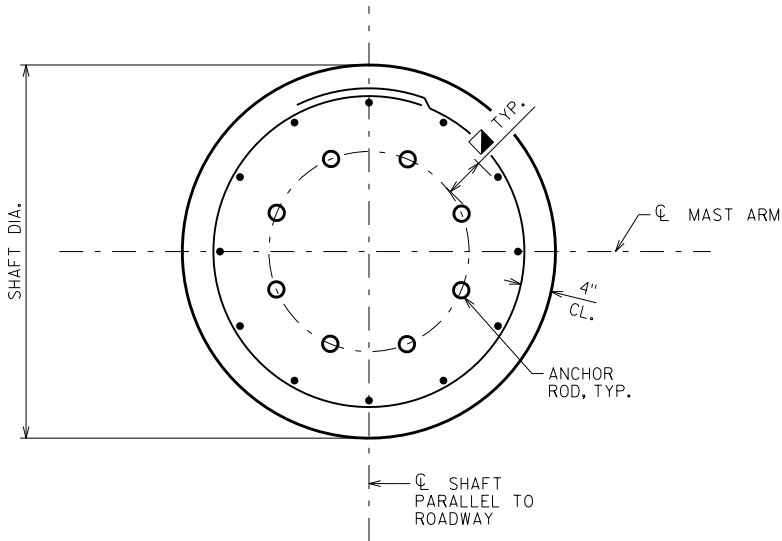
EXACT LOCATION OF THE SIGN BASE SHALL BE DETERMINED BY THE ENGINEER.

CONTRACTOR SHALL VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION OF FOOTINGS.

CONTRACTOR TO USE S.D.D. 15C24, AS MODIFIED BY DETAILS ON THIS SHEET AND IN THE SPECIAL PROVISIONS.

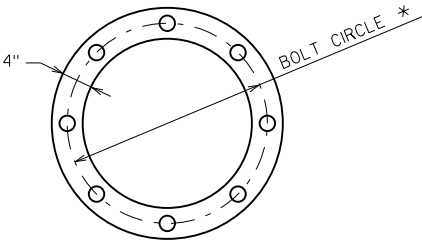
ANCHOR RODS, NUTS, WASHERS, TEMPLATES CONCRETE MASONRY AND REINFORCEMENT TO BE INCLUDED IN THE BID ITEM "SPV.0060.04 - REPLACE FOUNDATION".

EXISTING 3'-0" DIA. CONCRETE FOUNDATION TO BE REMOVED OR ABANDONED AS DIRECTED BY THE ENGINEER.

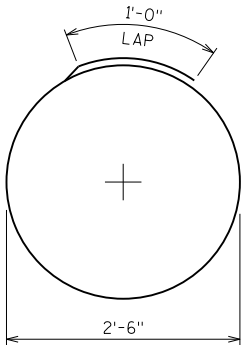


DRILLED SHAFT PLAN

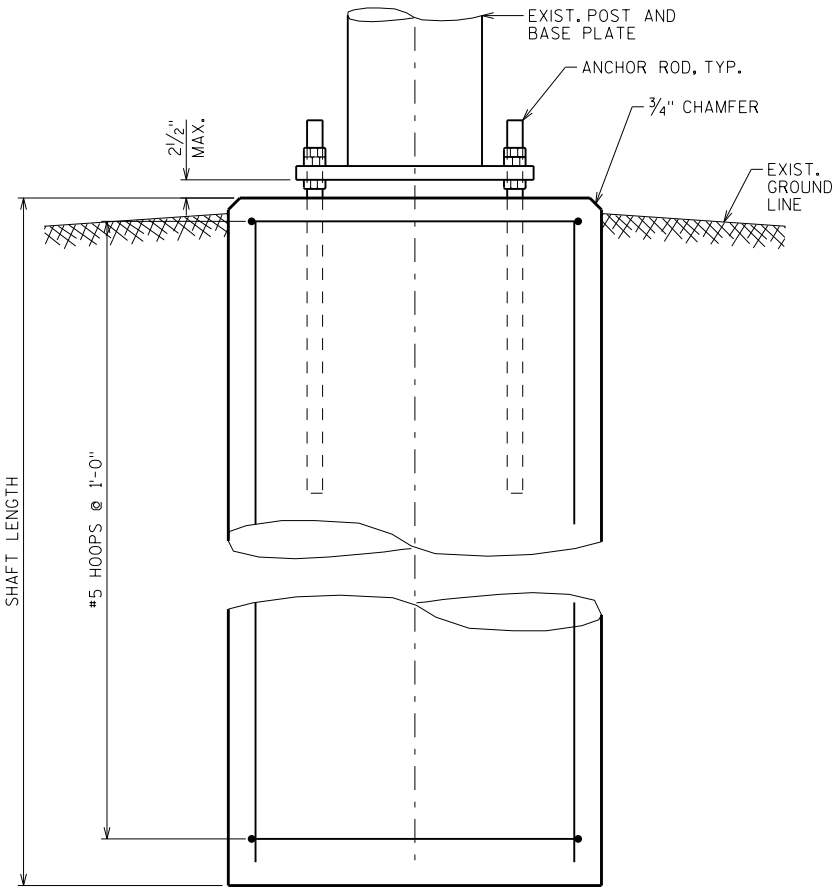
REINFORCEMENT TO CLEAR ANCHOR BOLTS BY 1/2" MIN.



TOP VIEW OF TOP & BOTTOM TEMPLATES

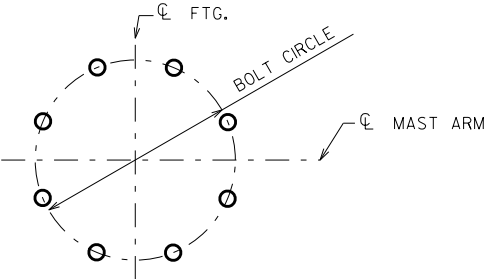


14 - #5 HOOPS
9 - 4' LONG
HS REINFORCEMENT = 270 LB



DRILLED SHAFT ELEVATION

SHAFT CASINGS, IF USED, SHALL BE REMOVED CONCURRENTLY WITH PLACING OF CONCRETE.



ANCHOR ROD DETAILS
CENTER TEMPLATES IN SHAFT

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE NE SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D. SAD
S-70-180 FOUNDATION DETAILS		SHEET 41	

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1009-30-15, Sign Bridge Replacement, Regionwide Various Routes NE, Var HWY, Brown County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2019 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20181119)

2. Scope of Work.

The work under this contract shall consist of repairing existing sign bridges on various highways in various counties and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the time frame for construction of the project within the 2019 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

Begin work by Tuesday, September 16th, 2019.

4. Traffic

Shoulder closures are preferable to lane closures whenever possible.

At no time, perform any repairs or lift or erect signs over live traffic lanes. All repair work is to be performed utilizing traffic control under the area currently being repaired.

Do not perform any work requiring lane or ramp during the peak traffic periods. All lane and shoulder closures shall be entered in the Wisconsin Lane Closure System (LCS) prior to any work. See Wisconsin Lane Closure System Advance Notification section for LCS entry instructions.

Traffic Control & Work Restrictions

A detailed table of structure by structure work restrictions and traffic control inspections is included in the plans.

Traffic Control: S-70-180

State highway 114 will be closed during the removal and installation of traffic signal monotube, S-70-0180. Utilize local law enforcement to stop traffic and temporarily close all traffic under the structure for a maximum of 20 minutes during the monotube removal and reinstallation.

Close the sidewalk adjacent to S-70-0180 during the operations required to complete the Replacing Foundation item. Direct pedestrians to cross at the nearest crosswalks. All traffic control required is incidental to item 643.5000 Traffic Control.

Freeway Work Restrictions

All lanes of the freeway shall be entirely clear and open to traffic at all times except for approved Night Time Hours or Off-Peak Hour closures as approved by the engineer. Dual lane operation is permitted during Night Time Hours and Off-Peak Hours pending approval of the engineer. Single lane operation is only permitted during Night Time Hours pending approval of the engineer. Lane closures shall be in accordance to the standard detail drawings (SDD) and have the approval of the engineer and the Region Work Zone Engineer.

System to system ramp closures shall only be allowed during nighttime work hours.

No two consecutive on or off ramps shall be closed at the same time.

All lanes of on, off, and directional interchange ramps shall be completely free of traffic control devices during restricted hours. During off peak hours, ramps may be reduced to one 12-foot lane. Ramps may be closed during off peak hours with the prior approval of the engineer and only for the minimum time required to complete the work. It is required to post the ramps with signs as required above.

During periods of no construction, the full width of all freeway mainline and ramp pavements shall be open to traffic.

To the extent possible, confine work operations to an off highway or shoulder location without encroachment on traffic lanes and in such a manner as to interfere as little as possible with freeway traffic.

Coordinate the work schedule in the northeast region with special events such as Green Bay Packer Home Games and other Lambeau Field events with anticipated attendance of 30,000+. No work is allowed within areas affected by special events. No lane closures allowed on any of the roadways in Brown County starting 5 hours prior to the event start time until 8 hours of the start time of the event.

Do not use flag persons to direct, control or stop freeway traffic.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as shown on the plans. Submit this plan ten (10) days prior to the preconstruction conference.

Portable Changeable Message Signs – Message Prior Approval

After coordinating with Department construction field staff, notify the appropriate region Traffic Section 3 business days prior to deploying or changing a message on a PCMS to obtain approval of the proposed message. The Region Traffic Unit will review the proposed message and either approve the message or make necessary changes. Contact NE Region Traffic as listed in the plans for prior message approval.

Structures that will need PCMS installed 3 business days prior to the lane closures are as follows: S-05-0108 and S-20-0023.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying mainline traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 25th, 2019 to 6:00 AM Tuesday, May 28th, 2019 Memorial Day;
- From noon Wednesday, July 3rd, 2019 to 6:00 AM Monday, July 8th, 2019 Independence Day;
- From noon Friday, August 30th, 2019 to 6:00 AM Tuesday, September 3rd, 2019 Labor Day.

stp-107-005 (20181119)

6. Railroad Insurance and Coordination - Escanaba and Lake Superior Railroad Company

A Description

Comply with standard spec 107.17 for all work affecting Escanaba and Lake Superior Railroad Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Escanaba and Lake Superior Railroad Company.

Notify evidence of the required coverage, and duration to Tom Klimek, Vice President of Marketing; 6366 South 1st Street, Wells, MI 49894; Telephone (920) 435-8006; E-mail: elsklimek@gmail.com.

Also send a copy to the following: Jared Kinziger, NE Region Railroad Coordinator; 944 Vanderperren Way, Green Bay, WI 54304; Telephone (920) 492-7713; E-mail: jared.kinziger@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 1009-30-15
- Project Location: V. of Howard
- Route Name: USH 41, Brown County
- Crossing ID: 388714N
- Railroad Subdivision: Crivitz – Green Bay
- Railroad Milepost: 200.47
- Work Performed: Traffic Control

A.2 Train Operation

Approximately 4 through freight trains operate monthly at up to 10 mph. There are no switching movements at this location.

A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination

Construction Contact

Tom Klimek, Director of Marketing; Customer Services Green Bay Operations, 529 S. Jefferson Street, Suite 108, PO Box 85, Green Bay, WI 54305; Telephone (920) 435-8006; E-mail elsklimek@gmail.com for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

Flagging Contact

Contact E&LS Headquarters, Well's office at Telephone (906) 399-0646; E-mail wells1@elsrr.com at least five working days before a flagger or cable locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Cable Locate

In addition to contacting Diggers Hotline, contact Matthew Hopkins, Signal Maintainer; Telephone (906) 399-0646; E-mail matthew.hopkins@elsrr.com at least five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

E&LS will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions, and will be accomplished without cost to the contractor. None

A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

stp-107-026 (20170615)

7. Utilities

This contract does not come under the provision of Administrative Rule Trans 220.

107-065 (20080501)

Due to the nature of this work, utility conflicts were not identified or resolved during design. Locate all utility facilities within the project limits prior to construction. Notify the engineer of any potential utility conflicts within three (3) business days prior to construction. Coordinate all utility relocations or adjustments necessary to accomplish the work of this project.

8. Native American Hiring.

Pre-Bid

Before bid submittal, contact the Oneida to provide information on hiring procedures and future employment opportunities, and gather information on the tribal work force.

Oneida tribal labor office contact information:

James Petitjean, Area Manager
c/o Oneida Nation Community and Economic Development
Office: PO Box 365 Oneida, WI 54144-0365
Cell: 920-869-4574
Email: jpetitje@oneidanation.org

Maintain documentation of all efforts made to communicate with Oneida Tribe. Pre-bid, submit documentation in conjunction with the Proposal Request Form to the Bureau of Project Development at:

DOTDTSHighwayConstructionContractors@dot.wi.gov

The Eligible Bidders list will not be updated until this documentation is received. Include the following information in documentation:

Proposal number/route number/termini/county
Persons contacted
Method of communication (phone, email, written, in person)
Information exchanged (hiring procedures, available positions, referrals received, employee performance, etc)

After Execution

At a minimum of three days before the tribal coordination meeting, contact the Oneida Tribe to provide the following information regarding available employment opportunities for prime and subcontractors:

Job classification/trade
Job qualifications and required skills
Employment period
Wage
Copy of job application

After receiving employment opportunities, the Area Manager will within two business days provide employment referrals, or provide other recruitment sources to obtain qualified referrals.

Document all efforts made to communicate job opportunities and the results of hiring activities throughout the life of the contract. At any time during the life of the contract, provide Oneida Trine communication documentation within five business days of request by the department.

Tribal Coordination Meeting

Between execution of contract and the project preconstruction conference, setup and coordinate a meeting with the Tribal officials and leaders at Oneida Tribe and notify and invite WisDOT Statewide Tribal Liaison, 4802 Sheboygan Ave, Room 451, P.O. Box 7965, Madison, WI 53707-7965, kelly.jackson@dot.wi.gov, (608) 266-3761. The prime contractor and all subcontractors shall attend this meeting. Discuss available employment opportunities and other tribal areas of interest such as scope of work, Tribal regulations, borrow sites, waste sites, and available aggregate.

Project Completion

As a part of the document submittals required under standard spec 109.7, submit documentation summarizing communications regarding job opportunities throughout the life of the contract. Provide final report to the tribe and Statewide Tribal Affairs compiling the results of hiring activities for the prime contractor as well as for subcontractors at all tiers.

stp-107-200 (20140630)

9. Lane Rental Fee Assessment.

A General

The contract designates some lane closures to perform the work. The contractor will not incur a Lane Rental Fee Assessment for closing lanes during the allowable lane closure times. The contractor will incur a Lane Rental Fee Assessment for each lane closure outside of the allowable lane closure times. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The purpose of lane rental is to enforce compliance of lane restrictions and discourage unnecessary closures.

The allowable lane closure times are shown in the Section 2 of the plan.

Submit the dates of the proposed lane, ramp, and roadway restrictions to the engineer as part of the progress schedule.

B Lane Rental Fee Assessment

The Lane Rental Fee Assessment incurred for each lane closure, each ramp closure, and each full closure of a roadway, per direction of travel, is as follows:

- S-20-0023: \$625 per lane, per direction of travel, per hour broken into 15 minute increments

The Lane Rental Fee Assessment represents a portion of the cost of the interference and inconvenience to the road users for each closure. All lane, roadway, or ramp closure event increments 15 minutes and less will be assessed as a 15-minute increment.

The engineer, or designated representative, will be the sole authority in determining time period length for the Lane Rental Fee Assessment.

Lane Rental Fee Assessments will not be assessed for closures due to crashes, accidents, or emergencies not initiated by the contractor.

The department will assess Lane Rental Fee Assessment by the dollar under the administrative item Failing to Open Road to Traffic. The total dollar amount of Lane Rental Fee Assessment will be computed by multiplying the Lane Rental Assessment Rate by the number of 15-minute increments of each lane closure event as described above.

Lane Rental Fee Assessment will be in effect from the time of the Notice to Proceed until the department issues final acceptance. If interim completion time or contract time expires before the completion of specified work in the contract, additional liquidated damages will be assessed as specified in standard spec 108.11 or as specified within this contract.

10. Temporary Regulatory Speed Limit Reduction

A reduction of the posted regulatory speed limit from 65 mph (or 70 mph) to 55 mph is required when any of the following conditions are created within the project limits: 1. Lane(s) closed and workers are present

and active in close proximity to an open lane. 2. Lane(s) narrowed to less than 12 feet and adjacent shoulder width is reduced. 3. Traffic is shifted partly or completely onto a shoulder and/or temporary pavement and shoulder width is reduced. At all other times the posted regulatory speed limit shall be 65 mph (or 70 mph).

During periods when traffic conditions do not require a Temporary Regulatory Speed Reduction, speed limit signs shall be changed to the permanent posted speed limit. This may require posted speed sign changes twice a day or more. Changing temporary and existing/permanent signs between 65 mph (or 70 mph) and 55 mph shall be considered incidental to the item Traffic Control.

No portion of sign text shall be visible when not in use, regardless if it is temporary or permanent regulatory speed limit sign.

During approved temporary regulatory speed limit reductions, install regulatory speed limit signs on the inside and outside shoulders of the roadway at the beginning of the reduced regulatory speed zone, after all locations where traffic may enter the highway segment or every 1/2 mile within the reduced regulatory speed zone. Signs shall be installed at the end of the temporary regulatory speed zone to designate the end of the temporary regulatory speed zone and inform drivers the posted regulatory speed limit reverts back to 65 mph. To minimize possible confusion to the traveling public and to ensure appropriate speed enforcement, enhanced attention to placement and changing of speed limit signs is required.

Coordinate with department construction field staff to notify the Northeast Region Traffic Section with field location(s) of the temporary regulatory speed zone. Primary contact phone number: 920-492-5652 (secondary contact number is 920-492-7165). Contact the Northeast Region Traffic Section at least 14 calendar days before installation of the temporary regulatory speed zone. After notification, Northeast Region Traffic will create a "Temporary Speed Zone Declaration" to meet statutory requirements, allowing enforcement of this temporary regulatory speed limit.

When construction activities impede the location of a post mounted regulatory speed limit sign, mount the regulatory speed limit sign on portable supports that meet the "crashworthy" definition and height criteria in the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).

11. Traffic Control

Perform this work conforming to standard spec 643, and as the plans show, or as the engineer approves, except as follows.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as the plans show. Submit this plan ten (10) days before the preconstruction conference.

Provide 24 hours-a-day availability of equipment and forces to expeditiously restore lights, signs, or other traffic control devices that are damaged or disturbed. The cost to maintain and restore the above items shall be considered incidental to the item as bid and no additional payment will be made therefore.

Supply the name and telephone number of a local contact person for traffic control repair before starting work.

Have available at all times sufficient experienced personnel to promptly install, remove and reinstall the required traffic control devices to route traffic during the construction operations.

The turning of traffic control devices when not in use to obscure the message will not be allowed under this contract.

Obtain prior approval from the engineer for the location of egress and ingress for construction vehicles to prosecute the work.

Cover existing signs which conflict with traffic control as the engineer directs.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles on the roadways. This includes the following:

Do not park or store any vehicle, piece of equipment, or construction materials on the right of way, unless otherwise specified in the traffic control article or without approval of the engineer.

All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic.

Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1000 feet. Activate the beam when merging into or exiting a live traffic lane.

Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor expense.

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

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12. Signs Type I and II.

Furnish and install mounting brackets per approved product list for type II signs on overhead sign supports incidental to sign. For type II signs on sign bridges use aluminum vertical support beams incidental to sign.

Modify 637.2.4 of the standard specifications with the following:

Use stainless steel bolts, washers and nuts for type I and type II signs mounted on sign bridges or type I signs mounted on overhead sign supports. Use clips on every joint for Sign Plate A 4-6 when mounted on a sign bridge or overhead sign support. Inspect installation of clips and assure bolts and nuts are tightened to manufacturers recommended torque values.

Use aluminum vertical sign support beams that have a 5-inch wide flange and weigh 3.7 pounds per foot, if the L-brackets are 4 inches wide then use 4-inch-wide flange beams weighing 3.06 pounds per foot. Measure the width of the L-brackets on existing structures to determine the width needed for sign support beams

Use beams a minimum of six feet in length or equal to the height of the sign to be supported, whichever is greater. Use U-bolts that are made of stainless steel, one-half inch diameter and of the proper size to fit the truss cords of each sign bridge. Install vertical sign support beams on each sign and use new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss.

For type II signs on overhead sign supports follow the approved product list for mounting brackets.

Replace 637.2.4.1(2)2 of the standard specifications with the following:

Clips may be either stainless steel or ASTM B 108, aluminum alloy, 356.0-T6.

Append 637.3.3.2(2) of the standard specifications with the following:

Install Type I Signs at the offset stated in the plan, which shall be the clear distance between the edge of mainline pavement right edge line and the near edge of the sign.

Append 637.3.3.3(3) of the standard specifications with the following:

Furnish and install new aluminum vertical sign support beams on each sign and new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss for Type I or Type II Signs and Type I signs on overhead sign supports incidental to sign.

13. Tension Anchor Rod, Item SPV.0060.01

A Description

This special provision describes re-tensioning loose anchor rod nuts as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with the pertinent provisions of section 641 of the standard specifications and as shown in the plans.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 641 of the standard specifications and as shown in the plans. This work will consist of re-tensioning all loose anchor rod nuts as specified in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. The contractor shall verify the grade of the anchor rod. If an anchor rod grade cannot be verified, the Department shall be contracted for direction. Note that A36 rods have different tensioning requirements.
2. The contractor shall field verify the size and number of nuts required to be replaced. Note that if one or more are found to be loose, all are required to be replaced.
3. Remove all jam nuts¹.
4. The contractor shall furnish flat washers and heavy hex nuts conforming to Section 641.2.2.3. Existing jam nuts¹ may be reused.
5. Remove rodent screen¹.
6. Remove and dispose of the grout pad¹ in accordance to standard spec 509.3.4.
7. Tighten all nuts that are loose to snug tight (leveling and top nut). Reference the Department's Form DT2321 for snug tight torque values.
8. Contact the department for direction of the top nut is not fully snugged and cannot be turned.
9. Once all nuts are snug, remove one and only one top nut at a time and follow the remaining procedure. Top nuts, flat washers, and locking washers (if applicable) shall be discarded, the leveling nuts shall remain, and jam nuts¹ may be reused.
10. Remove rust and dirt, from anchor rod and base plate with a wire brush.
11. Apply one light coat of fast drying zinc rich primer or spray-on cold galvanized (if rust is present) to the full length of the anchor bolt and at damaged base plates. Repair any damaged galvanized coating incidental to the re-tensioning process.
12. Apply wax-based lubricant to the anchor rod.
13. Install top nut to snug tight. Reference the Department's form DT2321 for snug tight torque values.
14. Repeat steps 3 thru 12 in this specification until all washers and nuts have been replaced.
15. Tension the anchor rod nuts. Follow the Department's Form DT2321 procedure steps 5 thru 7 and record the tensioning process.
16. Clean, lubricate and install jam nut¹ per step 8 of Form DT2321.
17. Apply two coats of zinc rich primer to any damaged areas of the structure base plates and used jam nuts.
18. Reinstall the rodent screen¹.
19. Complete Form DT2321 for each structure and submit to Jason Zemke (262-548-8734) for transmittal to Bureau of Structures and inclusion in HSIS.

Note¹ – Only for structures that have jam nuts, grout, or rodent screens.

All work for this item, including site clean-up, shall be completed in one shift. If it is a cantilever structure with a connection which has 6 or less bolts, the truss or mastarm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the project engineer and BOS for permanent record.

D Measurement

The department will measure Tension Anchor Rod as each individual anchor rod acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.01	Tension Anchor Rod	Each

Payment is full compensation for tensioning loose anchor rod nuts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

14. Remove Debris and Regrade, Item SPV.0060.02

A Description

This special provision describes removing debris and grading around the foundation as shown on the plans, and as hereinafter provided.

B (Vacant)

C Construction

Remove debris and dispose of it in accordance with section 202 of the standard specifications. Grade the area around the foundation to drain in accordance with section 213 of the standard specification.

D Measurement

The department will measure Remove Debris and Regrade as each foundation location acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.02	Remove Debris and Regrade	Each

Payment is full compensation for removing and disposing of the debris; grading to the foundation; restoration; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

15. Replace Rodent Screen, Item SPV.0060.03

A Description

This special provision describes replacing the missing rodent screens as shown on the plans, and as hereinafter provided.

B Materials

Furnish galvanized or stainless welded 23-gauge steel mesh, with 1/4" max. opening. All hardware required to properly secure the rodent screen will be considered incidental to this item.

C Construction

Use construction methods that are in accordance with the standard specifications and as shown in the plans. Replace the deteriorated rodent screen. Construct rodent screens such that the screen is in contact with the foundation to prevent rodent access to the interior of the structure.

D Measurement

The department will measure Replace Rodent Screen as each individual rodent screen acceptably completed.

E Payment

The department will pay for the measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.03	Replace Rodent Screen	Each

Payment is full compensation for replacing rodent screen; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

16. Replace Foundation, Item SPV.0060.04

A Description

This special provision describes removing and replacing the foundation as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 636, 641 and as shown in the plans.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 636, 641 and as shown in the plans. The existing post, mastarm and signs are to be removed and reinstalled on the new foundation. The contractor is responsible for storing the structure and for any damage that occurs during removal, storage or reinstallation of the structure. The existing foundation is to be removed in accordance with standard spec 204.3.

D Measurement

The department will measure Replace Foundation as each foundation location acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.04	Replace Foundation	Each

Payment is full compensation for removing, temporarily storing, and reinstalling existing pole and arms; for providing concrete; for providing and removing casing; for excavating and backfilling; for providing and placing anchor rods; for providing and installing steel reinforcement; for providing and installing any nuts, bolts, washers or other hardware necessary to remove and reinstall the existing post, mastarm and signs on the new foundation; for cleaning-up, repairing damage, and for disposing of excavation and surplus materials.

17. Adjust Standoff, Item SPV.0060.05

A Description

This special provision describes reducing the anchor rod standoff distance as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 641 and as shown in the plans.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 641 and as shown in the plans.

1. Loosen existing jam and top nuts.
2. Lower leveling nuts, dimension must be less than that shown in plans.
3. Place structure on leveling nuts and washers.
4. Replace top and jam nuts and tension according to special provision SPV.0060.01 Tension Anchor Rod.

All work for this item, including site clean-up, shall be completed in one shift. The structure shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the project engineer and BOS for permanent record.

D Measurement

The department will measure Adjust Standoff as each foundation location acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.05	Adjust Standoff	Each

Payment is full compensation for supporting, storing and reinstalling structure; for providing and installing new nuts and washers; cleaning-up, and for disposing of surplus materials.

18. Tension Structural Connection Bolt (Friction), Item SPV.0060.06

A Description

This special provision describes replacing splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolt as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 641, 657 and as shown in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. Each bolt to be tensioned shall be replaced with a new bolt to properly tension the bolt. The new bolt installed will follow the below procedure.
2. The contractor shall field verify the size and number of bolts, nuts, flat washers, and DTI washers at each structure to be replaced. Note that since the DTI's are to be utilized, the number of washers may change and the lengths of the bolts may need to be increased.
3. Lock washers shall **not** be used in connections. Washers are **not** to be placed between faying surfaces. If present, lock washers and washers between faying surfaces must be removed and discarded.
4. The contractor shall furnish bolts, flat washers, heavy hex nuts, shims, and DTI's conforming to standard spec 641.
5. Perform the pre-installation test in accordance to the department's form DT2322.
6. Tighten all nuts that are loose to snug tight. Note that this is to be done for stability purposes.
7. Once all nuts are snug, remove one and only one bolt at a time and follow the remaining procedure. Existing bolts, nuts washers, and shims shall be discarded.
8. Install the new bolt to snug tight.
9. Repeat steps 7 and 8 until all bolts have been replaced. Ensure there are no gaps in the faying surface after all bolts have been replaced. If gaps are present, contact central office contact on DT form.
10. Follow the department's Form DT2322 installation procedure for tensioning of the replacement bolts.
11. Complete Form DT2322 for each structure and submit to the regional ancillary structure engineer for transmittal to BOS and inclusion in HSIS.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or a connection which has 6 or less bolts, the truss or mastarm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the project engineer and BOS for permanent record.

D Measurement

The department will measure Tension Structural Connection Bolt (Friction) as each individual bolt, acceptably completed

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.06	Tension Structural Connection Bolt (Friction)	Each

Payment is full compensation for replacing all necessary splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

19. Tighten Connection Bolt (Non-Friction), Item SPV.0060.07

A Description

This special provision describes replacing and tightening connection bolts at post-to-truss and mast arm connection as shown on the plans, and as hereinafter provided. These connections are not designed as tensioned connections. As such, bolts are installed in a snug tight condition. Attempting to fully tension these connections could result in damage.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 641, 657 and as shown in the plans. Replace all bolts and nuts which are loose, missing, corroded, stripped or otherwise unable to be tightened as required. The contractor shall follow the tightening procedure outlined herein:

1. The contractor shall field verify the size and number of bolts, nuts, and flat washers at each structure to be replaced. Note that some structures are missing washers. Washers are to be installed under the turned element so the number of washers may change and the lengths of the bolts may need to be increased.
2. The contractor shall furnish bolts, flat washers, and heavy hex nuts, conforming to standard spec 641.
3. Bolts to be replaced shall be removed one at a time in a connection.
4. Tighten bolts which were loose or identified to be replaced to snug tight.
5. Verify all other bolts in connection are also snug tight.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or a connection with six (6) or less bolts, the truss or mast arm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability to ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the project engineer and BOS for permanent record.

D Measurement

The department will measure Tighten Connection Bolt (Non-Friction) as each individual connection bolt, acceptably tightened.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.07	Tighten Connection Bolt (Non-Friction)	Each

Payment is full compensation for replacing and tightening connection bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

20. Secure/ Replace Cap, Item SPV.0060.08

A Description

This special provision describes securing or replacing missing or deteriorated chord, post and miscellaneous caps and securing them as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with the pertinent provisions of sections 641 and 657 of the standard specifications and as shown in the plans. Contractor to field verify size of chord, post and miscellaneous caps to be replaced.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 641 and 657 of the standard specifications and as shown in the plans. Miscellaneous hardware required to securely install the end cap will be considered incidental to this item.

D Measurement

The department will measure Secure/ Replace Cap as each individual cap acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.08	Secure/ Replace Cap	EACH

Payment is full compensation for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

21. Replace Type II Sign Support Bracket, Item SPV.0060.09

A Description

This special provision describes replacing the damaged or missing type II sign support brackets as shown on the plans, and as hereinafter provided.

B Materials

Furnish type II sign bracket assembly materials for overhead signs support that are in accordance with the Section 637 of the Standard Specifications and which are on the department's approved product list and as shown in the plans.

C Construction

Take down the existing sign panel and remove the existing support bracket and properly dispose of the bracket assembly. Use construction methods that are in accordance with Section 637 and 641 of the Standard Specifications and as shown in the plans. Provide torque requirement and other installation instructions to the Region. All bolts, nuts, washers or miscellaneous items required to replace the damaged or deteriorated sign bracket will be considered incidental to this item. If an existing sign is to be re-installed, the installation of the sign is incidental to Replace Type II Sign Support Bracket.

D Measurement

The department will measure Replace Type II Sign Support Bracket as each individual assembly acceptably installed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.09	Replace Type II Sign Support Bracket	Each

Payment is full compensation for replacing sign type II sign support bracket; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for handling, transporting, and erecting; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

22. Replace Sign Connection Hardware, Item SPV.0060.10

A Description

This special provision describes replacing the cracked or missing sign connection hardware as shown on the plans, and as hereinafter provided.

B Materials

Furnish connection materials for overhead-mounted signs that are in accordance to the standard spec 637 and which are on the department's approved product list and as shown in the plans. Furnish stainless steel bolts, nuts, and lock washers as required to be replaced as shown in the plans. Field verify the length of the connection bolt to be replaced.

C Construction

Use construction methods that are in accordance to standard specs 637 and 641 and as shown in the plans. All bolts, nuts, washers or miscellaneous items required to replace the cracked or deteriorated sign connection hardware will be considered incidental to this item.

D Measurement

The department will measure Replace Sign Connection Hardware as each individual sign which has hardware replaced, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.10	Replace Sign Connection Hardware	Each

Payment is full compensation for replacing sign connection hardware; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for fabricating, handling, transporting, and erecting

23. Replace Sign Connection Clamp, Item SPV.0060.11

A Description

This special provision describes replacing the cracked or missing sign connection clamp as shown on the plans, and as hereinafter provided

B Materials

Furnish connection materials for overhead-mounted signs that are in accordance to the standard spec 637 and which are on the department's approved product list and as shown in the plans. Furnish sign connection clamps as required to be replaced as shown in the plans.

C Construction

Use construction methods that are in accordance to standard specs 637 and 641 and as shown in the plans. All bolts, nuts, washers or miscellaneous items required to replace the cracked or deteriorated sign connection hardware will be considered incidental to this item.

D Measurement

The department will measure Replace Sign Connection Clamp as each individual sign which has hardware replaced, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.11	Replace Sign Connection Clamp	Each

Payment is full compensation for replacing sign connection clamp; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for handling, transporting, and erecting. Approved products do not require contractor to fabricate parts.

24. Install Conduit Plug, Item SPV.0060.12

A Description

This special provision describes replacing missing conduit plugs as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with section 652 of the standard specifications and as shown in the plans.

C Construction

Use construction methods that are in accordance with section 652 of the standard specifications and as shown in the plans.

Field verify the size of the conduit plug required. Lubricate the conduit plug threads with an approved anti-seize compound.

D Measurement

The department will measure Install Conduit Plug as each individual conduit plug acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.12	Install Conduit Plug	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing the new conduit plug, including anti-seize compound.

25. Install ID Plaque, Item SPV.0060.13

A Description

This special provision describes installing sign, signal and high mast light ID plaques as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with SDD 10A4-3 and/or SDD 12A4-3 as required by structure type.

C Construction

Install the sign bridge ID plaque in accordance with SDD 10A4-3 and/or SDD 12A4-3 as required by structure type. Miscellaneous hardware required to securely install the ID plaque will be considered incidental to this item.

D Measurement

The department will measure Install ID Plaque as each individual sign bridge ID plaque acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.13	Install ID Plaque	Each

Payment is full compensation for installing sign bridge ID plaque; for removing and properly disposing of existing materials being replaced; for furnishing and installing all materials and miscellaneous items to complete the installation; and for fabricating, handling, transporting, and erecting.

26. Install Sign Panel Connector, Item SPV.0060.14

A Description

This special provision describes furnishing and installing sign panel connectors and removing and replacing existing defective or damaged sign panel connectors as shown in the plans, and as hereinafter provided.

B Materials

Provide sign panel connectors, bolts, nuts and washers meeting the requirements of section 637.2.4 of the standard specifications and Sign Plate A5-2. Connectors shall be aluminum alloy 356-T6 , bolts shall be stainless steel, flat washer shall be 3/8" x .091 stainless steel, and stop nuts shall be stainless steel.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 637 of the standard specifications and as shown in the plans.

Remove and properly dispose of defective or damaged existing sign panel connectors.

Tighten the bolts and nuts to the manufacturer's recommended torque value.

D Measurement

The department will measure Install Sign Panel Connector as each individual sign panel connector acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.14	Install Sign Panel Connector	Each

Payment is full compensation for furnishing and installing sign panel connectors, bolts, nuts and washers; for removing and properly disposing of existing defective or damaged sign panel connectors; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

27. Adjust Vertical Clearance, Item SPV.0060.15

A Description

This special provision describes adjusting sign or signal placement as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with sections 637 and 658 of the standard spec.

C Construction

Adjust sign and support brackets to position and vertical clearance to meet section 637.3.3.2 of the standard spec and as shown in the plans.

Adjust signal and support brackets to position and vertical clearance to meet the pertinent details in Series 9 of the Standard Detail Drawings and as shown in the plans.

All bolts, nuts, washers or miscellaneous items required to adjust the position of the sign or signal will be considered incidental to this item.

D Measurement

The department will measure Adjust Vertical Clearance by each unit, acceptably completed.

E Payment

The department will pay for the measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.15	Adjust Vertical Clearance	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing all connection hardware and adjusting vertical position of signals; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

28. Traffic Control – Single Lane Closure, Item SPV.0060.16.

A Description

This special provision describes providing traffic control by closing a lane to traffic to perform the necessary repairs for each structure.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans and listed in Section 4 – Traffic and Section 10 – Traffic Control. Furnishing of signs, channelizing devices (barrels, cones, etc.) and vehicles for performing traffic control shall be considered incidental to this item. All work performed utilizing a shoulder closure in lieu of a lane closure shall also be considered incidental.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans.

D Measurement

The department will measure Traffic Control – Single Lane Closure as each individual lane closed and reopened to traffic, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.16	Traffic Control – Single Lane Closure	Each

Payment is full compensation for furnishing all required signs and materials for proper traffic control and for deploying and removal of all materials.

29. Traffic Control – Double Lane Closure, Item SPV.0060.17.

A Description

This special provision describes providing traffic control by closing two lanes to traffic to perform the necessary repairs for each structure. Traffic control plans shall be submitted to the engineer for acceptance at least ten (10) working days prior to performing the closure.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans and listed in Section 4 – Traffic and Section 10 – Traffic Control. Furnishing of signs, channelizing devices (barrels, cones, etc.) and vehicles for performing traffic control shall be considered incidental to this item.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans.

D Measurement

The department will measure Traffic Control – Double Lane Closure as each double lane closure performed and reopened to traffic, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.16	Traffic Control – Double Lane Closure	Each

Payment is full compensation for furnishing all required signs and materials for proper traffic control and for deploying and removal of all materials.

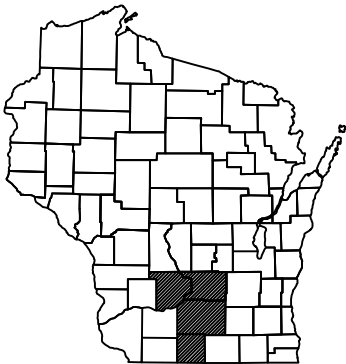
PROJECT ID:
WITH: 1009-30-16

COUNTY:
DANE

ORDER OF SHEETS

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

TOTAL SHEETS =



DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T.	=	N/A
DESIGN SPEED	=	N/A
ESALS	=	N/A

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

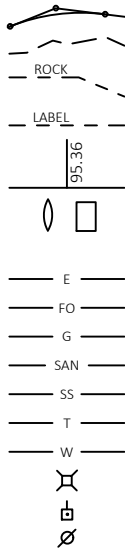
GRADE LINE
ORIGINAL GROUND
MARSH OR ROCK PROFILE (To be noted as such)
SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC
FIBER OPTIC
GAS
SANITARY SEWER
STORM SEWER
TELEPHONE
WATER
UTILITY PEDESTAL
POWER POLE
TELEPHONE POLE



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

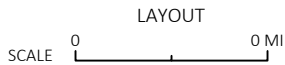
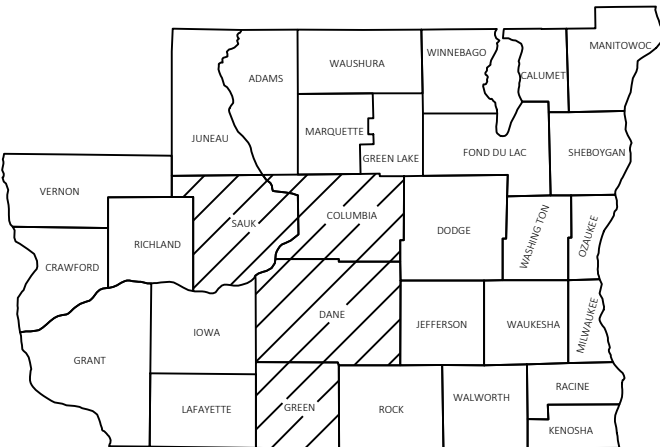
PLAN OF PROPOSED IMPROVEMENT

SIGN BRIDGE REPLACEMENT

REGIONWIDE VARIOUS ROUTES SW

VAR HWY
DANE COUNTY

STATE PROJECT NUMBER
1009-30-16



TOTAL NET LENGTH OF CENTERLINE = 0 MI

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-30-16		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	SURVEYOR
Designer	KYLE WITTE
Project Manager	KYLE TREML
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	ROB WAGNER

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

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GENERAL NOTES
THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

STRUCTURE AS-BUILTS AND INSPECTION REPORTS CAN BE FOUND ON THE WISDOT HIGHWAY STRUCTURES INFORMATION (HSI) WEBSITE OR BY REQUEST THROUGH THE PROJECT MANAGER.

TRAFFIC CONTACTS:

JOE SCHNEIDER COUNTIES:	608-789-5959 SAUK, GREEN	JOSEPH.SCHNEIDER@DOT.WI.GOV
JASON KOSTER COUNTIES:	608-440-1331 COLUMBIA & DANE	JASON.KOSTER@DOT.WI.GOV
JOSH KOEBERNICK COUNTIES:	608-516-6542 DANE (FOR SIGN STRUCTURES ON VERONA RD AND BELTLINE)	JOSHUA.KOEBERNICK@DOT.WI.GOV

DNR LIASON:

ERIC HEGGELUND COUNTIES:	608-228-7927 COLUMBIA & DANE	ERIC.HEGGELUND@WISCONSIN.GOV
ANDY BARTA COUNTIES:	608-235-2955 SAUK, GREEN	ANDREW.BARTA@WISCONSIN.GOV

STRUCTURE MAINTENANCE:

SHIV GUPTA COUNTIES:	608-243-5983 COLUMBIA, DANE, SAUK, GREEN	SHIV.GUPTA@DOT.WI.GOV
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COLUMBIA

STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-11-0014	IH 39	SB	IH 39 SB OFF RAMP TO IH 94 0.22 MILES EAST OF IH 94
S-11-0021	USH 51	NB	USH 51 NB 0.40 MILES EAST OF STH 33

GREEN

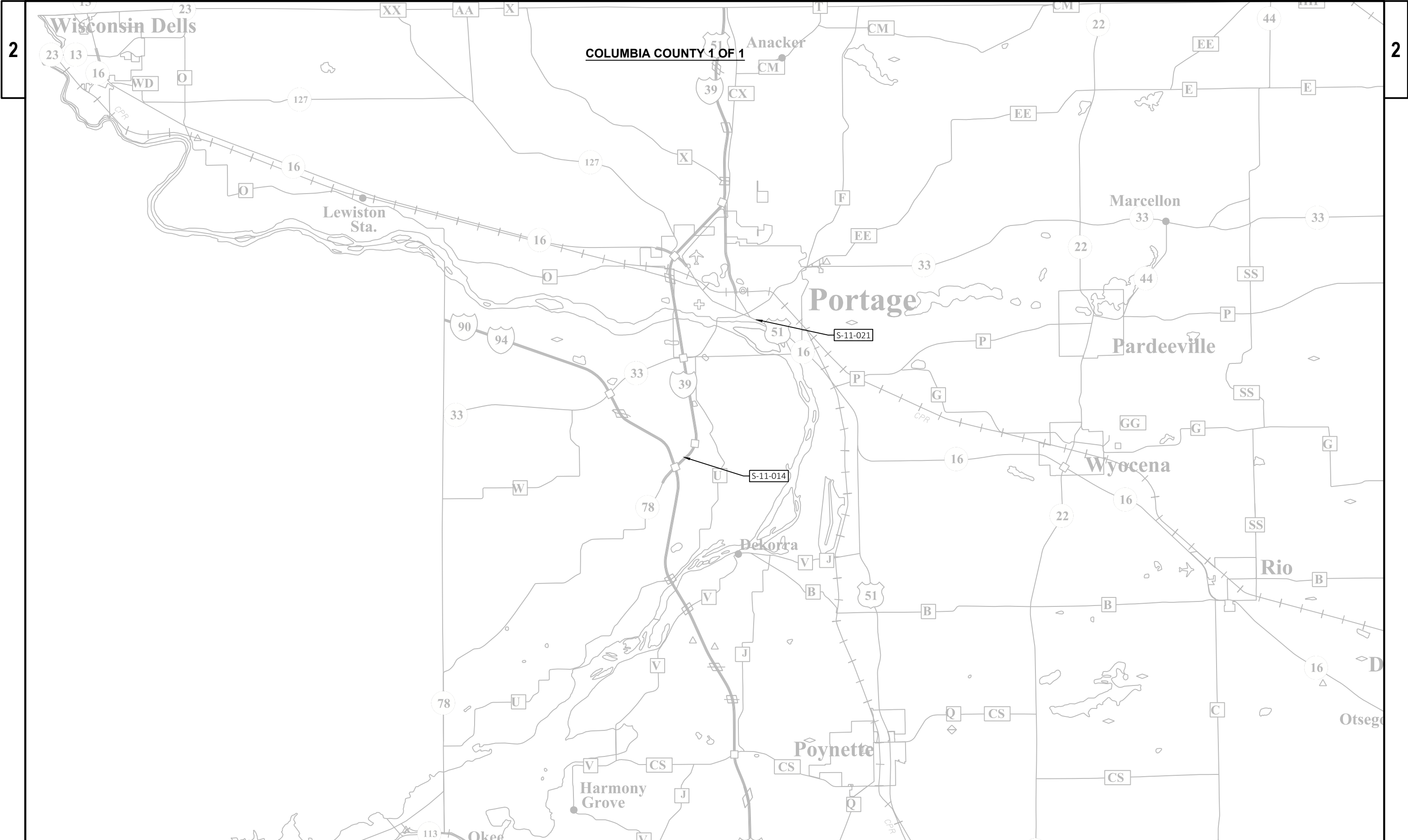
STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-23-0002	STH 11	EB	STH 11 AT USH 81 WB/69 SB EXIT

SAUK

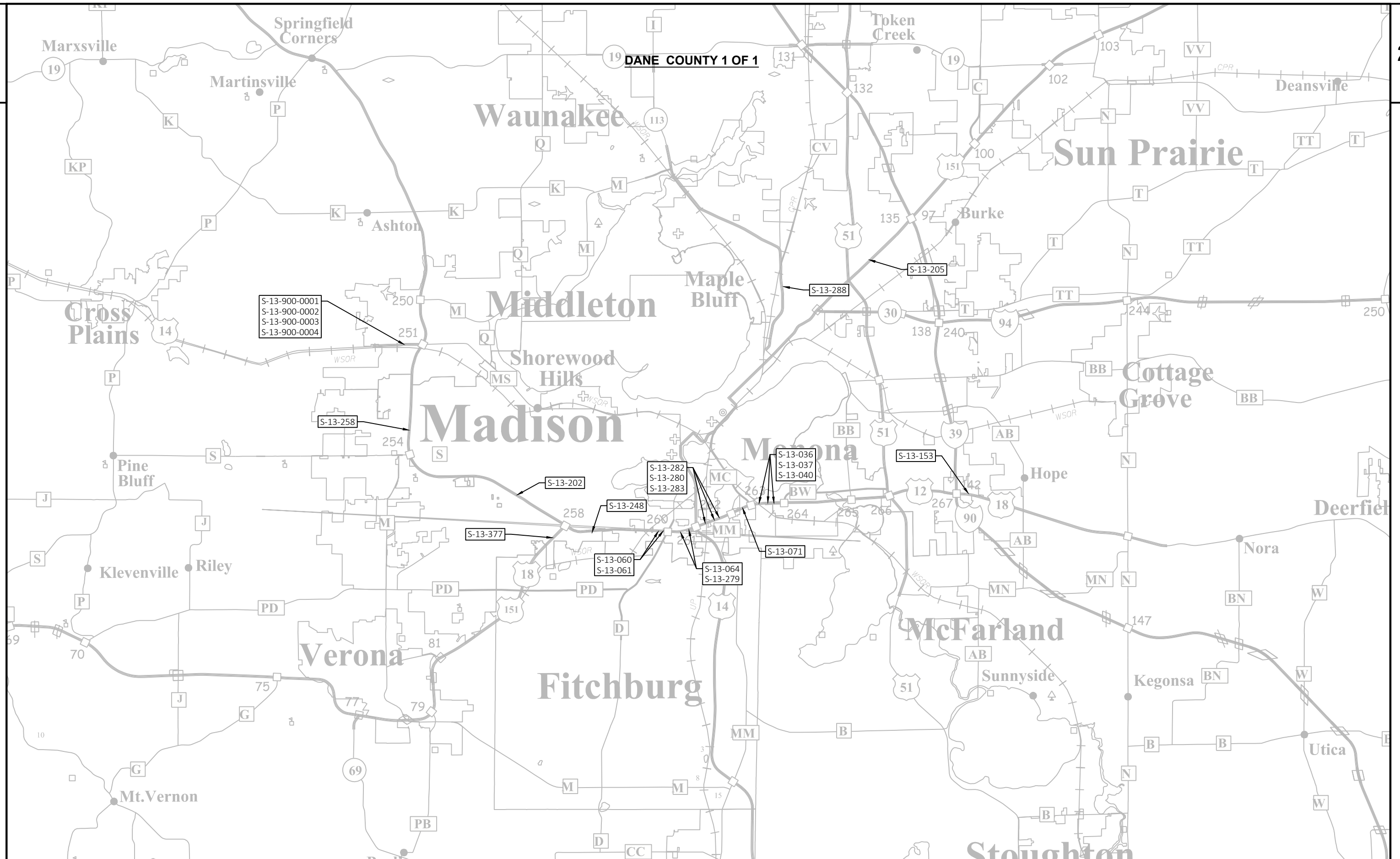
STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-56-0005	STH 13	WB	STH 13 WB AT STH 13/USH 12 INTERSECTION
S-56-0006	STH 13	NB	STH 13 NB AT STH 13/ USH 12 INTERSECTION
S-56-0007	USH 12	WB	USH 12 WB AT USH 12/ STH 13 INTERSECTION
S-56-0008	USH 12	NB	USH 12 NB 0.24 MILES SOUTH OF IH 94
S-56-0015	CTH BD	EB/WB	CTH BD 0.13 MILES SE OF USH 12
S-56-0017	CTH BD	EB/WB	CTH BD 0.13 MILES NW OF USH 12
S-56-0499-0002	USH 12	WB	USH 12 WB AT USH 12/MADISON ST INTERSECTION
S-56-0499-0006	USH 12	EB	USH 12 EB AT USH 12/MADISON ST INTERSECTION
S-56-1042-0006	USH 12	EB	USH 12 EB AT USH 12/LUEDERS RD INTERSECTION
S-56-1057-0004	HILLMAN RD	EB	HILLMAN RD EB AT USH 12/HILLMAN RD INTERSECTION
S-56-1057-0006	USH 12	WB	USH 12 WB AT USH 12/HILLMAN RD INTERSECTION

DANE

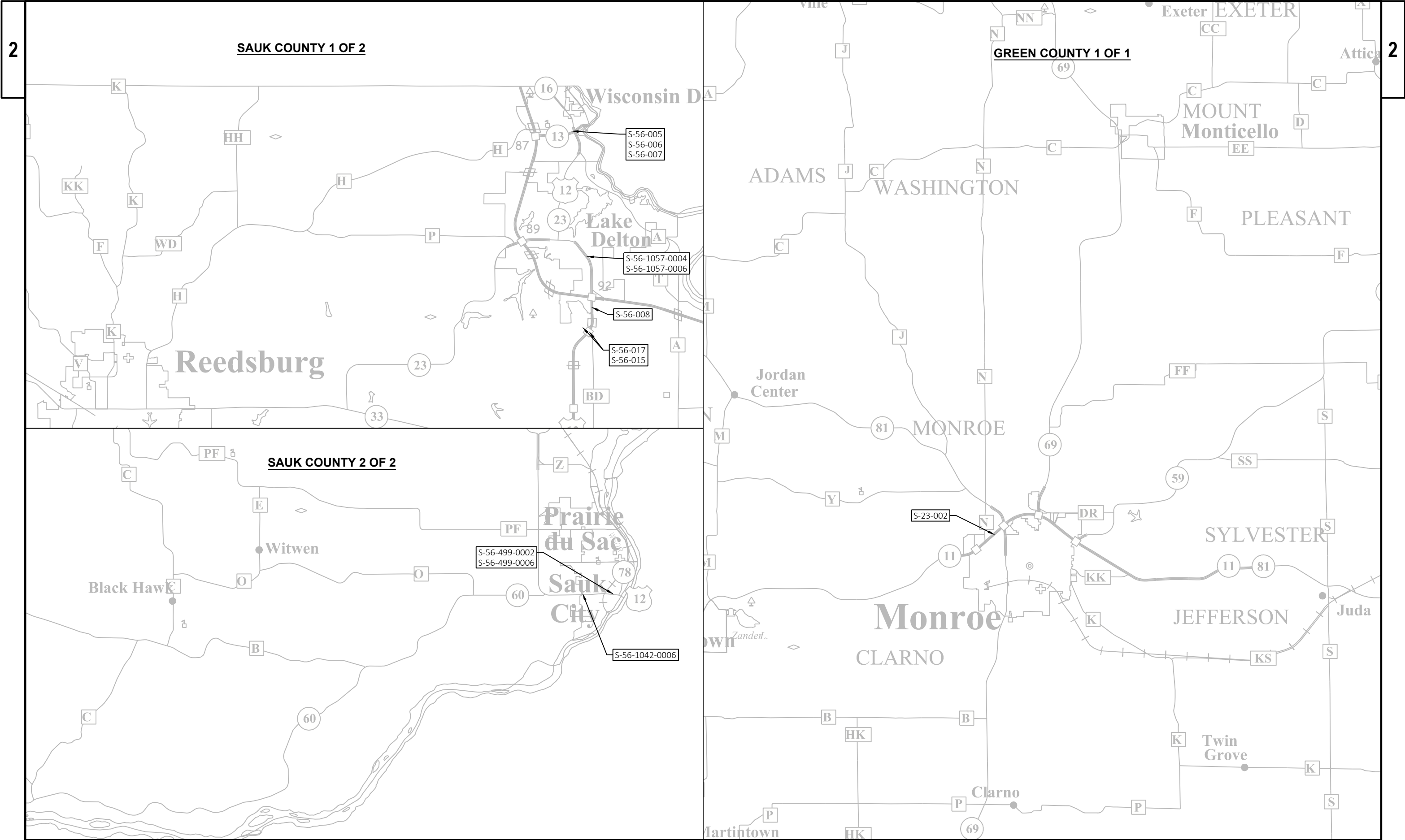
STRUCTURE NUMBER	HIGHWAY	DIRECTION	LOCATION
S-13-036	USH 12	WB	USH 12/18 WB EXIT 263
S-13-037	USH 12/18	EB	USH 12/18 EB EXIT 264
S-13-040	USH 12/18	EB	USH 12/18 EB EXIT 264
S-13-060	USH 12/14/18	EB	USH 12/18 EB EXIT 260 A/B
S-13-061	USH 12/14/18	EB	USH 12/18 EB EXIT 260 B
S-13-064	USH 12/18	EB	USH 12/18 EB EXIT 261
S-13-071	USH 12/18	WB	USH 12/18 WB EXIT 262
S-13-153	USH 12	WB	USH 12 WB 1.20 MILES WEST OF CTH AB
S-13-202	SCHROEDER RD	EB	USH 12 OFF RAMP EXIT 257 AT WHITNEY WAY
S-13-205	USH 151	SB	USH 151 SB 1.36 MILES SOUTH OF IH 39
S-13-248	USH 12/14	EB	USH 12/14 EB EXIT 259
S-13-258	USH 12	EB	USH 12 EB OFF RAMP EXIT 253
S-13-279	USH 12	EB	USH 12/18 EB EXIT 261
S-13-280	USH 12/18	EB	USH 12/18 EB EXIT 262
S-13-282	USH 12	WB	USH 12/18 WB EXIT 261
S-13-283	USH 12/18	WB	USH 12/18 WB EXIT 261
S-13-288	STH 113	SB	STH 113 SB 0.17 MILES NORTH OF ABERG AVE.
S-13-377	USH 18/151	WB	USH 18/151 WB 0.45 MILES WEST OF USH 12/14
S-13-900-0001	DEMING WAY	SB	USH 14/DEMING WAY INTERSECTION
S-13-900-0002	DEMING WAY	NB	USH 14/DEMING WAY INTERSECTION
S-13-900-0003	USH 14	EB	USH 14/DEMING WAY INTERSECTION
S-13-900-0004	USH 14	WB	USH 14/DEMING WAY INTERSECTION



PROJECT NO: 1009-30-16	HWY: VAROUS	COUNTY: COLUMBIA	SIGN LOCATIONS	SHEET	E
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PROJECT NO: 1009-30-16	HWY: VAROUS	COUNTY: DANE	SIGN LOCATIONS	SHEET	E
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PROJECT NO: 1009-30-16	HWY: VAROUS	COUNTY: DANE	SIGN LOCATIONS	SHEET	E
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COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION	TRAFFIC CONTROL	RESTRICTED HOURS	PCMS	NOTES
Columbia	S-11-0014	IH 39	SB	IH 39 SB ON RAMP TO IH 90	Shoulder closure	None		
Columbia	S-11-0021	USH 51	NB	USH 51 BETWEEN BROOKS ST AND BRADY ST	Lane closure	None		
Dane	S-13-0036	USH 12	WB	USH 12 WB EXIT RAMP TO JOHN NOLEN DR	Lane closure	Lane closures (6am-8pm) Shoulder closures (6am-9am, 3pm-6pm)		
Dane	S-13-0037	USH 12	EB	USH 12 BETWEEN JOHN NOLEN DR AND CTH BW	Lane closure	Lane closures (6am-8pm) Shoulder closures (6am-9am, 3pm-6pm)		
Dane	S-13-0040	USH 12	WB	USH 12 JUST WEST OF CTH BW	Shoulder closure	Shoulder closures (6am-9am, 3pm-6pm)		
Dane	S-13-0060	USH 12	EB	USH 12 NEAR THE CTH D EB EXIT RAMP	Ramp and Lane closure	Full ramp closures (5am-11pm) Lane closures (6am-8pm)	X	
Dane	S-13-0061	USH 12	EB	USH 12 JUST WEST OF CTH D	Lane closure	Lane closures (6am-9am, 3pm-6pm)		
Dane	S-13-0064	USH 12	EB	USH 12 EB EXIT RAMP TO PARK ST	Ramp closure	Full ramp closures (5am-11pm)	X	
Dane	S-13-0071	USH 12	WB	USH 12 BETWEEN JOHN NOLEN DR AND CTH MM	Ramp and Lane closure	Full ramp closures (5am-11pm) Shoulder closures (6am-9am, 3pm-6pm)	X	
Dane	S-13-0153	USH 12	WB	USH 12 WB EXIT RAMP TO IH 39	Lane closure	Lane closures (6am-9am)		
Dane	S-13-0202	LRD	EB	SCHROEDER RD WEST OF WHITNEY WAY	Lane closure	Lane closures (3pm-7pm)		
Dane	S-13-0205	USH 151	SB	EAST WASHINGTON AVE BETWEEN PARKSIDE DR AND PORTAGE RD	-	None		Bus Stop (#6 bus) - Do not block
Dane	S-13-0248	USH 12	EB	USH 12 JUST EAST OF SEMINOLE HWY ON FRONTAGE ROAD	Shoulder closure	Shoulder closures (6am-9am, 3pm-6pm)		
Dane	S-13-0258	USH 12	EB	USH 12 SB EXIT RAMP TO OLD SAUK RD	Ramp and Lane closure	Full ramp closures (5am-11pm) Shoulder closures (6am-9am, 3pm-6pm)	X	
Dane	S-13-0279	USH 12	EB	USH 12 BETWEEN CTH D AND PARK ST	Ramp and Lane closure	Full ramp closures (5am-11pm) Shoulder closures (6am-9am, 3pm-6pm)	X	
Dane	S-13-0280	USH 12	EB	USH 12 NEAR PHEASANT RIDGE TRAIL	Lane closure	Lane closures (6am-8pm) Shoulder closures (6am-9am, 3pm-6pm)		
Dane	S-13-0282	USH 12	WB	USH 12 NEAR THE WB EXIT RAMP TO PARK ST	Ramp and Lane closure	Full ramp closures (5am-11pm) Lane closures (6am-8pm)	X	
Dane	S-13-0283	USH 12	WB	USH 12 BETWEEN PARK ST AND CTH MM	Shoulder closure	Shoulder closures (6am-9am, 3pm-6pm)		
Dane	S-13-0288	STH 113	SB	STH 113 NORTH OF ABERG AVE	Lane closure	Lane closures (3pm-7pm)		
Dane	S-13-0377	USH 18	WB	USH 18 BETWEEN RAYMOND RD AND BELTLINE FRONTAGE RD	Lane closure	None		Coordinate with Verona Road Mega Project Team
Dane	S-13-900-0001	LRD	SB	DEMING WAY SOUTH OF USH 14	Shoulder closure	Shoulder closures (10am-7pm)		
Dane	S-13-900-0002	LRD	NB	DEMING WAY NORTH OF USH 14	Lane closure	Lane closures (6am-10pm)		
Dane	S-13-900-0003	USH 14	EB	USH 14 EAST OF DEMING WAY	Lane closure	Lane closures (7am-7pm)		
Dane	S-13-900-0004	USH 14	WB	USH 14 WEST OF DEMING WAY	Lane closure	Lane closures (3pm-7pm)		
Green	S-23-0002	STH 11	EB	USH 11 AT USH 81 WB/69 SB EXIT	Auxiliary lane closure	None		
Sauk	S-56-0005	STH 13	WB	STH 13 EAST OF USH 12	Lane closure	None		No restrictions between Labor Day and Memorial Day. Coordinate with region traffic engineer if closures needed during the summer months.
Sauk	S-56-0006	STH 13	NB	STH 13 WEST OF USH 12	Lane closure	None		No restrictions between Labor Day and Memorial Day. Coordinate with region traffic engineer if closures needed during the summer months.
Sauk	S-56-0007	USH 12	WB	USH 12 SOUTH OF STH 13	Lane closure	None		No restrictions between Labor Day and Memorial Day. Coordinate with region traffic engineer if closures needed during the summer months.
Sauk	S-56-0008	USH 12	NB	USH 12 NEAR THE NB EXIT RAMP TO IH 90	Ramp and Lane closure	Full ramp closures (9am-9pm) Lane closures (6am-8pm)	X	
Sauk	S-56-0015	CTH BD	EB/WB	CTH BD BETWEEN USH 12 AND TIMOTHY LN	Lane closure	None		Avoid weekends. Consider taking it down to one lane through the entire interchange to simplify roundabout operations.
Sauk	S-56-0017	CTH BD	EB/WB	CTH BD BETWEEN MOON RD AND USH 12	Lane closure	None		Avoid weekends. Consider taking it down to one lane through the entire interchange to simplify roundabout operations.
Sauk	S-56-0499-0002	USH 12	WB	USH 12 JUST WEST OF MADISON ST	Lane closure	Lane closures (3pm-5pm)		Avoid weekends
Sauk	S-56-0499-0006	USH 12	EB	USH 12 JUST EAST OF MADISON ST	Lane closure	Lane closures (3pm-5pm)		Avoid weekends
Sauk	S-56-1042-0006	USH 12	EB	USH 12 AT LUEDERS RD	-	None		No restrictions between Labor Day and Memorial Day. Coordinate with region traffic engineer if closures needed during the summer months.
Sauk	S-56-1057-0004	LRD	EB	HILLMAN RD AT USH 12	Lane closure	Fridays between Memorial Day and Labor Day		
Sauk	S-56-1057-0006	USH 12	WB	USH 12 AT HILLMAN RD	Lane closure	Fridays between Memorial Day and Labor Day		

NOTES:

- RESTRICTED HOURS INDICATE THE TIME FRAMES WHEN LANE CLOSURES ARE NOT PERMITTED.
- A THREE DAY ADVANCE NOTICE NEEDED FOR PCMS PLACEMENT. PCMS NEEDED FOR ALL FULL CLOSURES (RAMP, DIRECTION OF TRAVEL, ETC)
- IF AN AUXILIARY LANE IS ADJACENT TO A RIGHT LANE CLOSURE CLOSE BOTH LANES.
- RAMPS SHOULD REMAIN OPEN WHENEVER POSSIBLE
- TRAFFIC CONTROL NEEDS ARE SUBJECT TO CHANGE. MODIFICATION TO THE TYPE OF CLOSURE SHALL BE APPROVED BY THE REGION TRAFFIC CONTROL ENGINEER.

STRUCTURE NUMBER	COUNTY	SIGN CODE	W X H	SIGNS TYPE II REFLECTIVE SH S.F.
S-13-377	DANE	R10-64	30" X 36"	8

STRUCTURE NUMBER	COUNTY	509.1500	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12	SPV.0060.13	SPV.0060.14	SPV.0060.15	SPV.0060.16	SPV.0060.17	SPV.0060.18	SPV.0060.19	SPV.0165.01
		CONCRETE SURFACE REPAIR	TENSION ANCHOR RODS	REMOVE DEBRIS AND REGRADE	REPLACE FOUNDATION	REMOVE GROUT PAD	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	SECURE / REPLACE CAP	SLOTTED HOLE REPAIR ON SIGN SUPPORT BRACKET	REPLACE SIGN CONNECTION CLAMP	REPLACE U- BOLT	INSTALL ID PLAQUE	INSTALL SIGN PANEL CONNECTOR	ADJUST VERTICAL CLEARANCE	REPLACE HANDRAIL HINGE PIN	REPLACE SAFETY CHAIN	INSTALL CONDUIT PLUG	SECURE - REPLACE HANDHOLE COVER	TRAFFIC CONTROL - SINGLE LANE CLOSURE	TRAFFIC CONTROL - DOUBLE LANE CLOSURE	TRAFFIC CONTROL - RAMP CLOSURE	REPAIR GALVANIZED COATING
		EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	SF
S-11-0014	COLUMBIA					4						1										
S-11-0021	COLUMBIA						1												1			
S-13-0036	DANE					1									1	1	1		1			
S-13-0037	DANE					1	32								1	2	1		1			
S-13-0040	DANE					1																
S-13-0060	DANE	2				4									1	1	1			1	1	5
S-13-0061	DANE		1			1						1					1	1	1			
S-13-0064	DANE					4		2			2		4				1				1	
S-13-0071	DANE			1			1						1						1			
S-13-0153	DANE												84						2		1	
S-13-0202	DANE		4																1			
S-13-0205	DANE		8																			
S-13-0248	DANE						4											1				
S-13-0258	DANE		6				6														1	
S-13-0279	DANE												6						1		1	
S-13-0280	DANE		8										4						1			
S-13-0282	DANE							2					7						1		1	
S-13-0283	DANE		8																			
S-13-0288	DANE						1	1				1		1					1	1		
S-13-0377	DANE																		1			
S-13-900-0001	DANE		6					1				1							1			
S-13-900-0002	DANE		6					3				1							2			
S-13-900-0003	DANE		6					2				1							2			
S-13-900-0004	DANE		6					1				1						1	1			
S-23-002	GREEN		6		1												1		1			
S-56-0005	SAUK			1			6			2		1							2			
S-56-0006	SAUK						6			1		1							2			
S-56-0007	SAUK						6			6		1							2			
S-56-0008	SAUK												30						1		1	
S-56-0015	SAUK								11										4			
S-56-0017	SAUK								12		1								4			
S-56-0499-0002	SAUK		6					3				1							3			
S-56-0499-0006	SAUK		6				8	1											2			
S-56-1042-0006	SAUK		6																			
S-56-1057-0004	SAUK		6					2											1			
S-56-1057-0006	SAUK		6					3											2			5
		2	95	2	1	16	71	21	23	9	3	11	136	1	3	4	6	3	44	2	7	

SIGN REPAIR LOCATIONS - COLUMBIA COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
COLUMBIA	S110014	IH-39 SB	SB	IH-39 SB AT THE IH-39/90/94 SPLIT
	S110021	USH 51 NB	NB	USH 51 NB AT BRADY ST.

SIGN REPAIR LOCATIONS - DANE COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
DANE	S130036	USH 12 WB	WB	USH 12/18 WB AT JOHN NOLEN DRIVE EXIT
	S130037	USH 12/18 EB	EB	USH 12/18 EB 1/4 MILE WEST OF SOUTH TOWN
	S130040	USH 12/18 WB	WB	12/18 WB 1/3 MIEAST OF JOHN NOLEN DR.
	S130060	USH 12/14/18 EB -USH 151 NB	NB	USH 12/14/18 EB AT FISH HATCHERY RD.
	S130061	USH 12/14/18 EB-USH 151 NB	NB	USH 12/14/18 EB AT EXIT TO CTH D NB (FISH HATCHERY RD.)
	S130064	USH 12/18 EB	EB	USH 12/14/18 EB AT USH 14 EXIT
	S130071	USH 12/18 WB	WB	USH 12/18 WB 1/8 MILE EAST OF RIMROCK ROAD
	S130153	USH 12 WB	WB	US 12/18 WB AT I-39 NB EXIT
	S130202	LRD SCHROEDER RD EB	EB	AT WHITNEY WAY
	S130205	SB EAST WASHINGTON AVE	VE	SB EAST WASHINGTON AVE AT PARKSIDE DR.
	S130248	US 12/14 EB	EB	FRONTAGE RD FROM SEMINOLE HWY
	S130258	US 12 EB	EB	US 12 OLD SAUK RD RAMP
	S130279	USH 12 EB	EB	EB USH 12 1/4 MILES WEST OF PARK ST
	S130280	USH 12/18	18	EB USH 12/USH 18 BETWEEN RIMROCK RD. AND PARK ST.
	S130282	USH 12	12	WB USH 12/USH 18, PARK ST. EXIT RAMP
	S130283	USH 12/18	18	WB USH 12/18 BETWEEN RIMROCK RD. AND PARK ST.
	S130288	STH 113 SB	SB	SB STH 113 AT ABERG AVE.
	S130377	USH 18/151 WB	WB	WB 18/151 (VERONA RD.) 1/8 MILE NORTH OF RAYMOND RD
	S1309000001	DEMING WAY SB	SB	DEMING WAY SB AT USH 14
	S1309000002	DEMING WAY NB	NB	DEMING WAY NB AT USH 14
	S1309000003	USH 14 EB	EB	USH 14 EB AT DEMING WAY
	S1309000004	USH 14 WB	WB	USH 14 WB AT DEMING WAY

SIGN REPAIR LOCATIONS - GREEN COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
GREEN	S230002	STH 11 EB	EB	STH 11 EB AT USH 81 WB/69 SB EXIT

SIGN REPAIR LOCATIONS - SAUK COUNTY

COUNTY	STRUCTURE NUMBER	HIGHWAY	DIRECTION OF TRAVEL	LOCATION
SAUK	S560005	STH 13 WB	WB	STH 13 WB JUST SOUTH OF USH 12
	S560006	STH 13 NB	NB	STH 13 NB JUST NORTH OF USH 12
	S560007	USH 12 WB	WB	USH 12 WB JUST SOUTH OF STH 13
	S560008	STH 12 NB	NB	STH 12 NB JUST SOUTH OF IH-90/94
	S560015	CTH BD EB/WB	WB	CTH BD AT ROUNDABOUT TO WB USH 12 RAMPS
	S560017	CTH BD EB/WB	WB	CTH BD AT ROUNDABOUT TO USH 12 EB RAMPS
	S5604990002	USH 12 WB	WB	USH 12 WB JUST WEST OF MADISON ST.
	S5604990006	USH 12 EB	EB	USH 12 EB JUST EAST OF MADISON ST.
	S5610420006	USH 12 EB	EB	USH 12 EB JUST EAST OF LUEDERS RD.
	S5610570004	HILLMAN E	E	HILLMAN EB, EAST OF USH 12
	S5610570006	USH 12 WB	WB	JUST WEST OF HILLMAN

GENERAL NOTES


- DRAWINGS SHALL NOT BE SCALED.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
- BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND AS-BUILT CONDITIONS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR PROPOSED REPAIRS.
- ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325 HIGH-TENSILE STRENGTH BOLTS UNLESS OTHERWISE SHOWN OR NOTED.

LIST OF DRAWINGS

- 2019 SW REGION SIGN REPAIR
- FOUNDATION DETAILS
- FOUNDATION REPLACEMENT DETAILS
- TRUSS DETAILS 1
- TRUSS DETAILS 2
- SIGN PANEL DETAILS 1
- SIGN PANEL DETAILS 2
- ELECTRICAL DETAILS
- CATWALK DETAILS
- S-11-14
- S-11-21
- S-13-36
- S-13-37
- S-13-40
- S-13-60
- S-13-61
- S-13-64
- S-13-71
- S-13-153
- S-13-202
- S-13-205
- S-13-248
- S-13-258
- S-13-279
- S-13-280
- S-13-282
- S-13-283
- S-13-288
- S-13-377
- S-13-900-0001
- S-13-900-0002
- S-13-900-0003
- S-13-900-0004
- S-23-0002
- S-56-005
- S-56-006
- S-56-007
- S-56-008
- S-56-015
- S-56-17
- S-56-499-0002
- S-56-499-0006
- S-56-1042-0006
- S-56-1057-0004
- S-56-1057-0006

STRUCTURE DESIGN CONTACTS:

STEVEN DOOCY (608) 261-6063
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY
<div><div>BUREAU OF STRUCTURES</div></div>			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____			
STRUCTURE SW SIGN REPAIRS			
2019 SW SIGN REPAIR			
COUNTY VARIES		VARIES	
DESIGN SPEC. REHABILITATION N/A			
DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
SAD	MJK	DDS/SAD	
2019 SW REGION SIGN REPAIR			SHEET 1 OF 45

**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

TABLE OF ESTIMATED QUANTITIES FOR FOUNDATIONS **

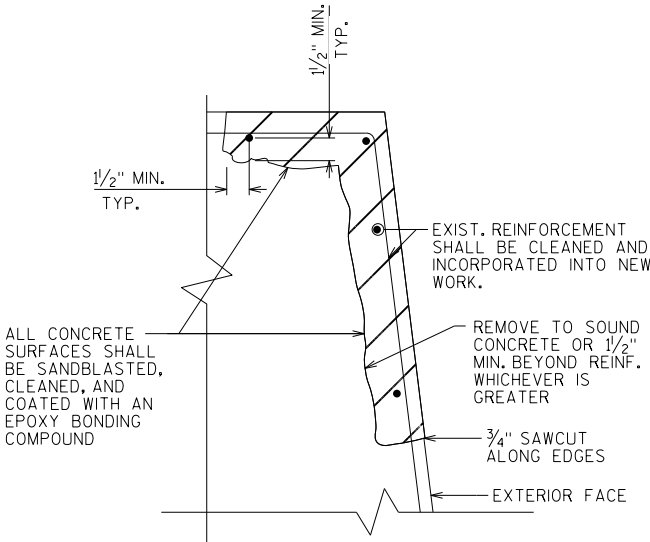
STRUCTURE NUMBER	CONCRETE SURFACE REPAIR	TENSION ANCHOR ROD	REMOVE DEBRIS AND REGRADE	REPLACE FOUNDATION	REMOVE GROUT PAD	REPAIR GALVANIZED COATING
	509.1500	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0165.01
	SF	EA	EA	EA	EA	SF
S110014					4	
S130036					1	
S130037					1	
S130040					1	
S130060	2				4	5
S130061		1			1	
S130064					4	
S130071			1			
S130202		4				
S130205		8				
S130258		6				
S130280		8				
S130283		8				
S1309000001		6				
S1309000002		6				
S1309000003		6				
S1309000004		6				
S230002		6		1		
S560005			1			
S5604990002		6				
S5604990006		6				
S5610420006		6				
S5610570004		6				
S5610570006		6				
TOTAL	2	95	2	1	16	5

FOUNDATION NOTES

STATE PROJECT NUMBER

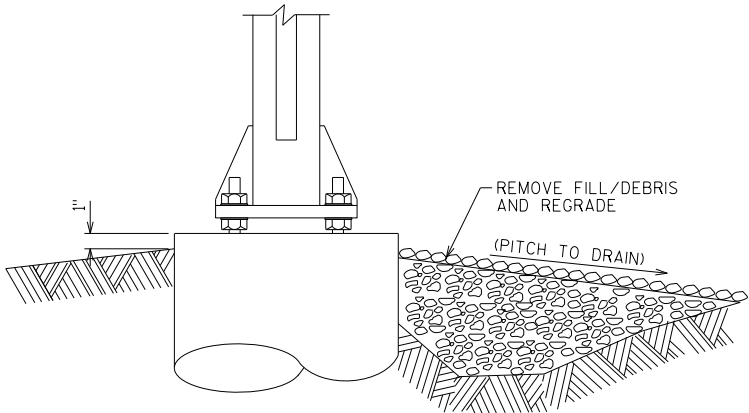
1009-30-16

1. CONCRETE - $f_c' = 3,500$ P.S.I.
2. BAR STEEL REINF. - GRADE 60 $f_y = 60,000$ P.S.I.
3. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
4. THE CONTRACTOR SHALL FIELD VERIFY DIMENSION OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
5. APPLY ZINC-RICH PAINT TO THE ANCHOR RODS, NUTS, WASHERS, AND LEVELING NUTS IN ACCORDANCE WITH SPECIFICATIONS AFTER REMOVING THE GROUT PAD OR TENSIONING THE ANCHOR ROD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TENSION ANCHOR RODS"
6. STEEL ANCHOR ROD NUTS AND WASHERS ASTM A563A HEAVY HEX NUTS AND ASTM F436 WASHERS.
7. THE TOP OF THE FOOTING SURFACE SHALL BE SMOOTHED AND SLOPED TO DRAIN.



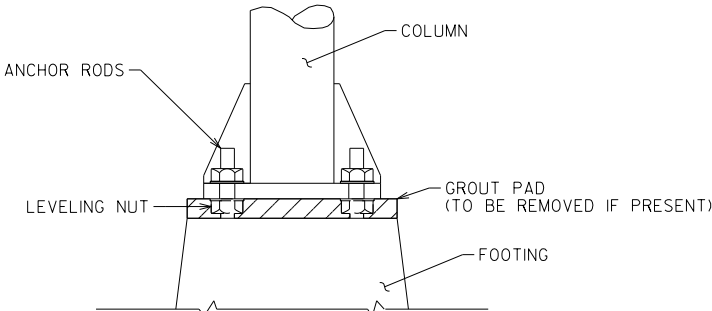
CONCRETE SURFACE REPAIR

TYPICAL DETAILS, ACTUAL LOCATIONS AS DIRECTED BY FIELD ENGINEER AND AS NOTED ON PLANS.

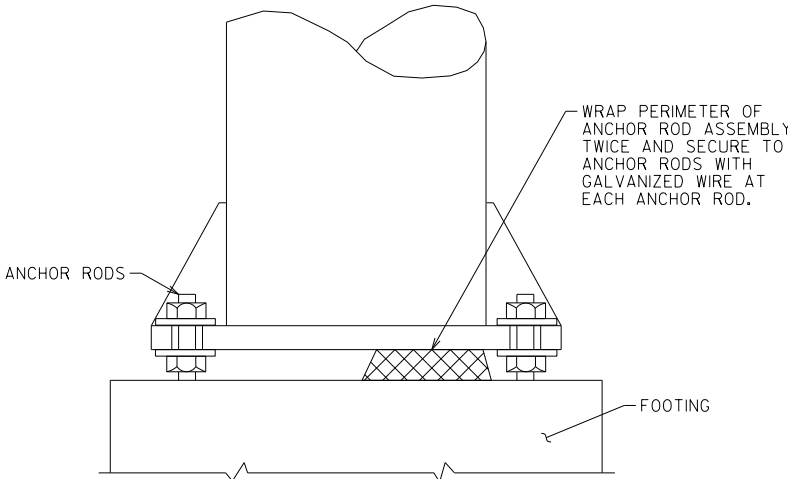


REMOVE DEBRIS AND REGRADE
SINGLE SHAFT FOUNDATION

ENSURE TOP OF CONCRETE IS FREE OF DEBRIS AND WATER WILL NOT COLLECT ON OR NEAR FOUNDATION.



TENSION ANCHOR RODS



REPLACE RODENT SCREEN

REQUIRED ON ALL STRUCTURES WITH ELECTRICAL EQUIPMENT.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
FOUNDATION DETAILS		SHEET 2	

SCALE = 1:00

NOTES

CONTRACTOR SHALL VERIFY UTILITY CONFLICTS PRIOR TO CONSTRUCTION OF FOOTING.
FOOTING BELOW THE WINGS SHALL BE EXCAVATED BY THE USE OF CIRCULAR AUGER.
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.
BENDING DIMENSIONS ARE OUT TO OUT OF BAR.

CONTRACTOR TO VERIFY NUMBER OF ANCHORS, ANCHOR BOLT DIAMETER, BOLT CIRCLE DIAMETER, ORIENTATION AND ELEVATION TO MATCH EXISTING BASE PLATE.

CENTER ANCHOR ROD ASSEMBLY TO MISS BAR STEEL REINFORCEMENT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN.
ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURE IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

UNLESS NOTED ON PLAN, REMOVE ALL CASING AND FORMS USED TO CONSTRUCT THE FOOTING PRIOR TO BACKFILLING AROUND THE FOOTING. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE IN LAYERS OF 1'-0" OR LESS.

TO BE PAID FOR AS "SPV.0060.03 REPLACE FOUNDATION". EXISTING FOOTING REMOVAL INCIDENTAL TO THIS ITEM.

EXACT LOCATION OF NEW FOUNDATION TO BE DETERMINED BY ENGINEER.

FOUNDATION DATA

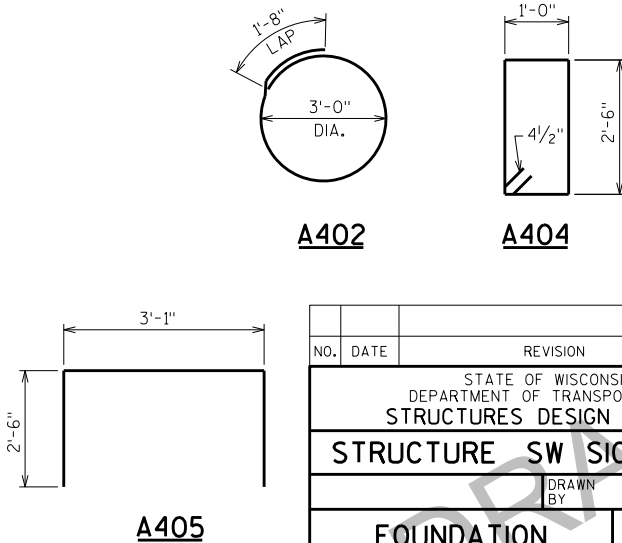
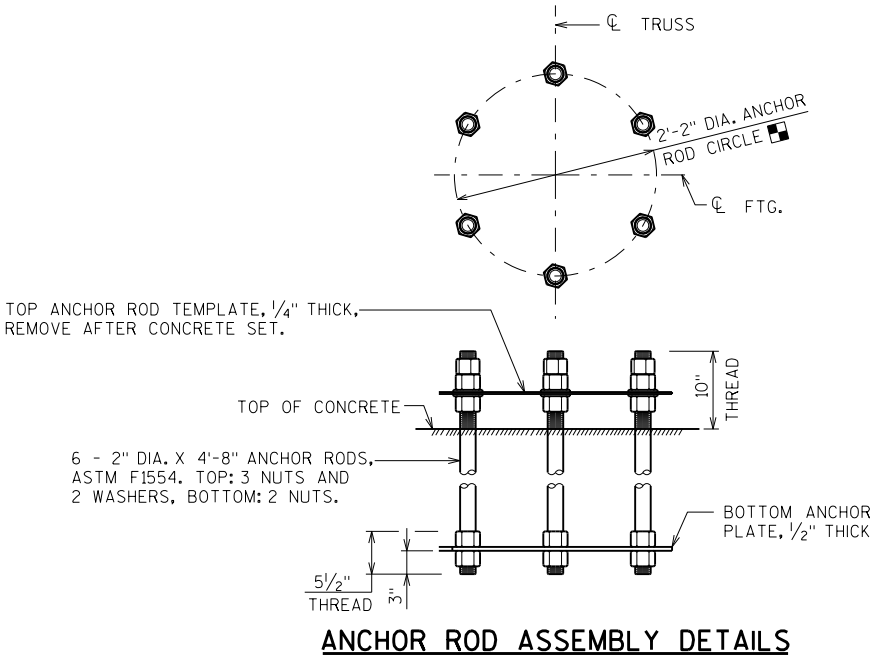
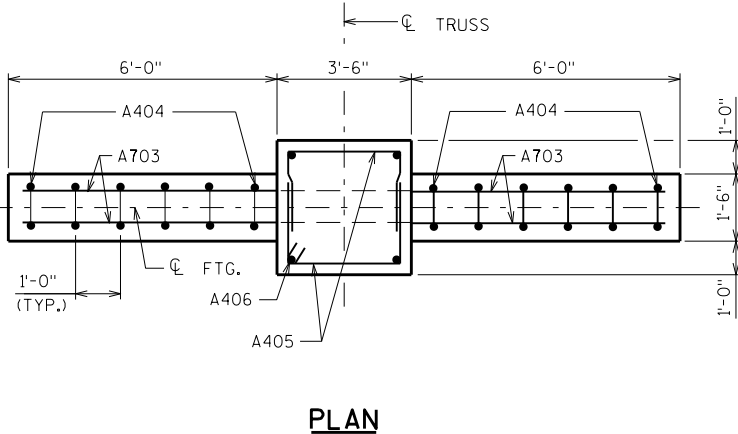
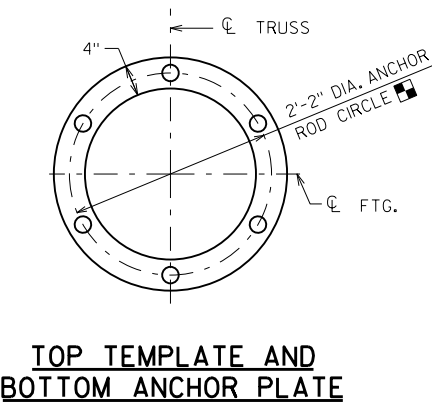
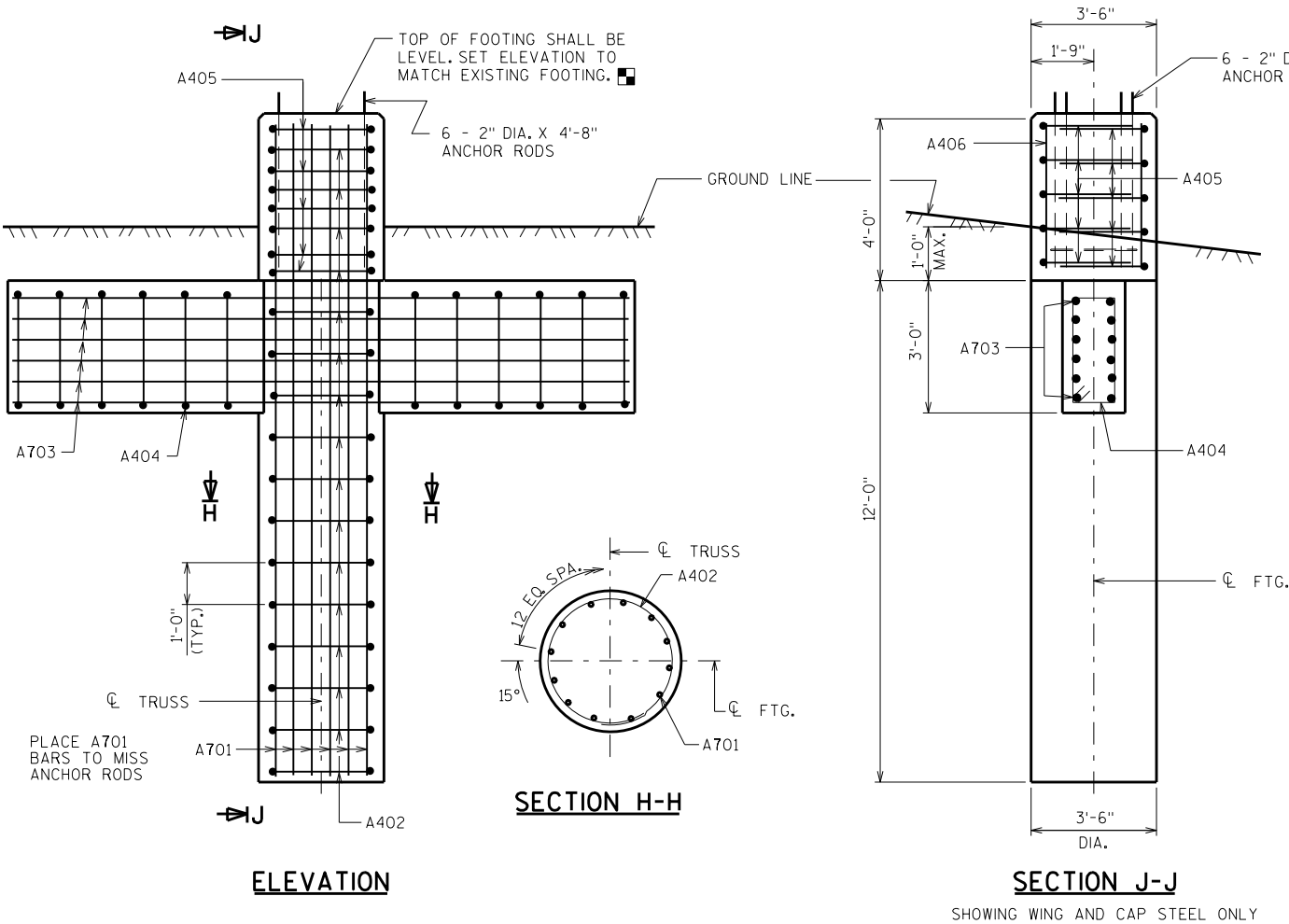
ALLOWABLE Qp = 4,000 P.S.F.

MATERIAL PROPERTIES

CONCRETE MASONRY f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 fy = 60,000 P.S.I.
ANCHOR BOLTS ASTM F1554 fy = 55,000 P.S.I.

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A701	X	12	15'-6"			FOOTING - COLUMN/TOP
A402	X	16	11'-2"	X		FOOTING - COLUMN/TOP
A703	X	12	15'-0"			FOOTING - WINGS
A404	X	12	7'-6"	X		FOOTING - WINGS
A405	X	10	7'-11"	X		FOOTING - TOP
A406	X	4	3'-6"			FOOTING - TOP - COLUMNS



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
FOUNDATION REPLACEMENT DETAILS		SHEET 3	

**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY,
AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE
LISTED ON THE STRUCTURE ELEVATION SHEETS.

TABLE OF ESTIMATED QUANTITIES FOR TRUSSES **

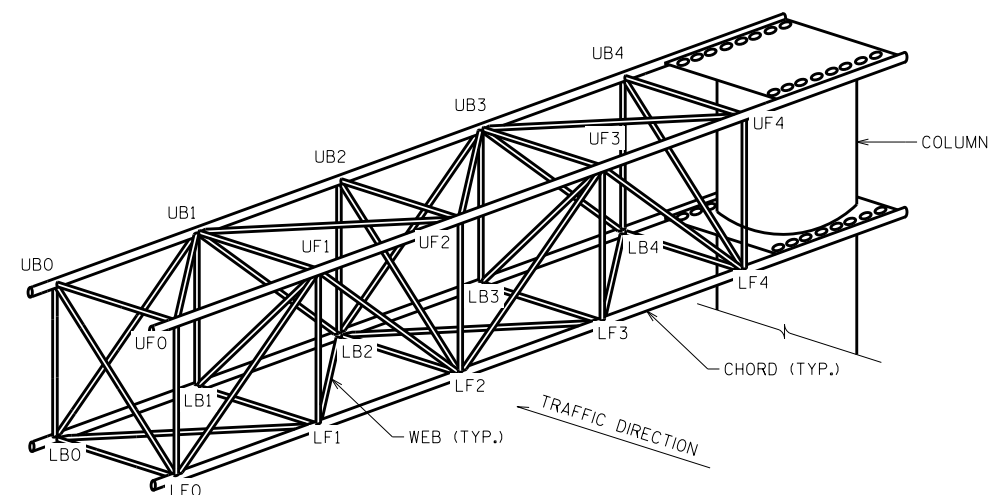
STRUCTURE NUMBER	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	SECURE/ REPLACE CAP
	SPV.0060.05	SPV.0060.06
	EA	EA
S110021	1	
S130037	32	
S130064		2
S130071	1	
S130248	4	
S130258	6	
S130282		2
S130288	1	1
S139000001		1
S139000002		3
S139000003		2
S139000004		1
S560005	6	
S560006	6	
S560007	6	
S5604990004		3
S5604990006	8	1
S5610570004		2
S5610570006		3
TOTAL	71	21

STATE PROJECT NUMBER

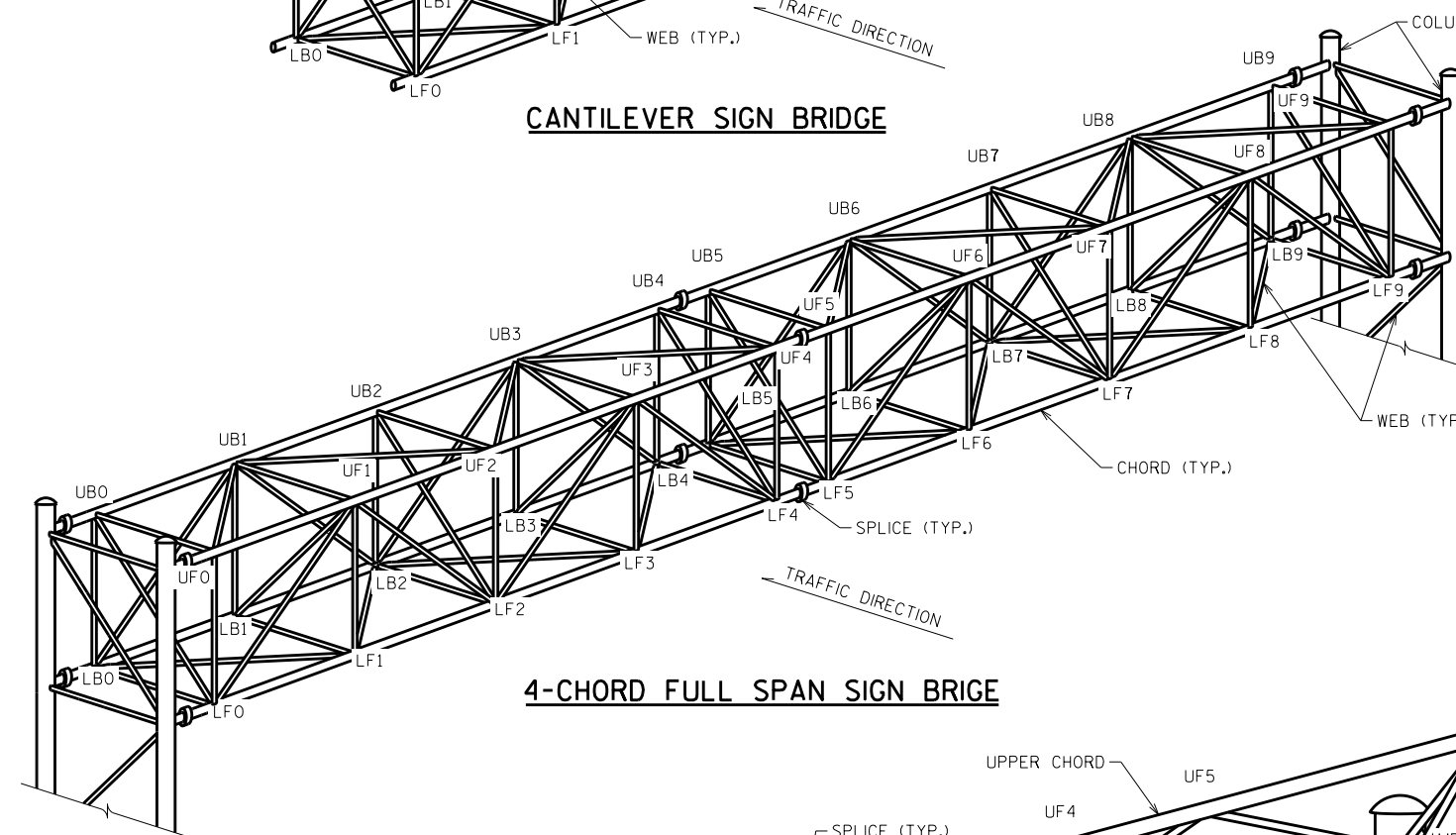
1009-30-16

TRUSS NOTES:

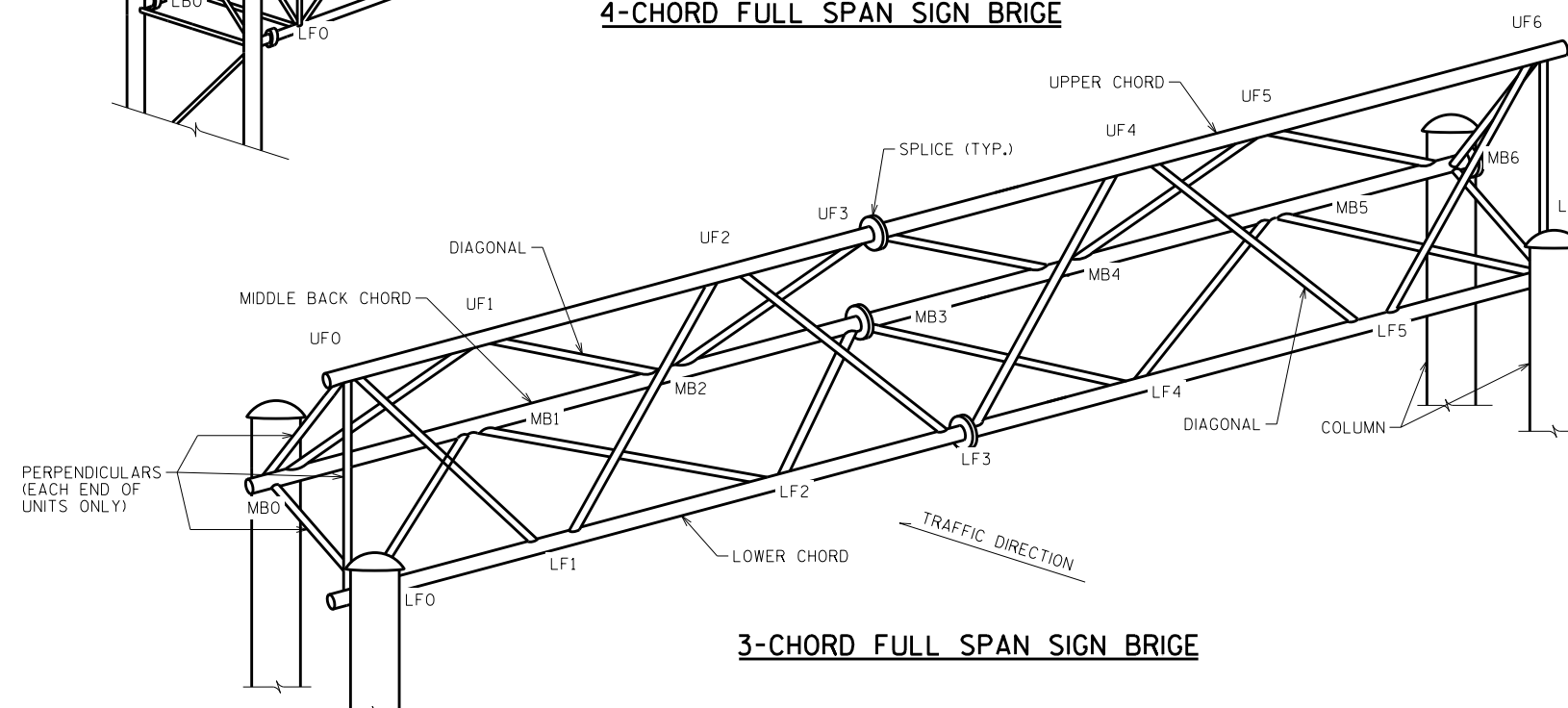
1. WHEN A FULL SPAN SIGN BRIDGE IS OVER BOTH DIRECTIONS AND SIGNS ARE ON STRUCTURE FOR BOTH DIRECTIONS, THEN NORTHBOUND AND EASTBOUND GOVERN THE NUMBERING SYSTEM.
2. THE CANTILEVER SIGN BRIDGE NUMBERING SYSTEM ALWAYS COUNTS UP FROM LEFT TO RIGHT REGARDLESS OF COLUMN LOCATION.
3. TYPICAL SIGN BRIDGE CONFIGURATION FOR INFORMATION ONLY.



CANTILEVER SIGN BRIDGE



4-CHORD FULL SPAN SIGN BRIGE



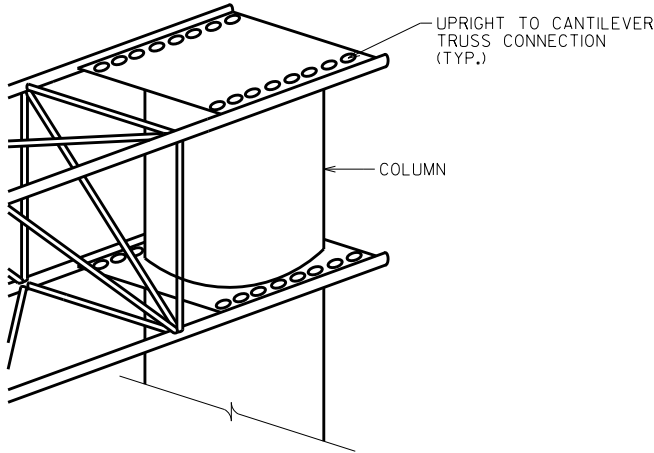
3-CHORD FULL SPAN SIGN BRIGE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIR			
DRAWN BY		DDS	PLANS CK'D.
TRUSS DETAILS 1			SHEET 4

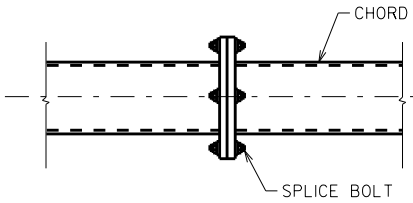
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TRUSS NOTES:

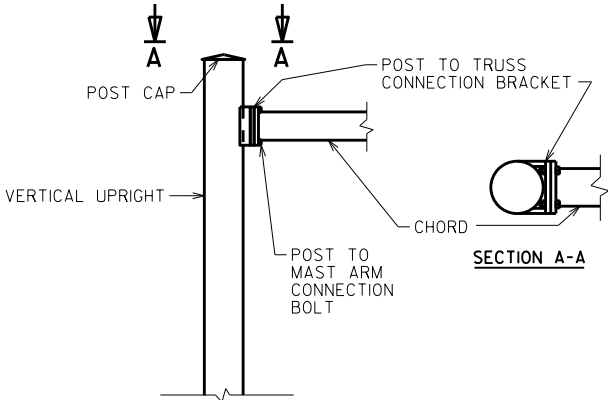
1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS OF THE ITEM REQUIRED. DISCREPANCIES SHALL BE SUBMITTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO BEGINNING WORK.
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO:
 - ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3
 - HEX NUTS ASTM F594
 - WASHERS ASTM A240ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" ϕ AND 12% FOR 3/4" ϕ AND SMALLER.
4. REPLACE MISSING BOLTS ON TOWER CAPS WITH A STAINLESS STEEL BOLT.



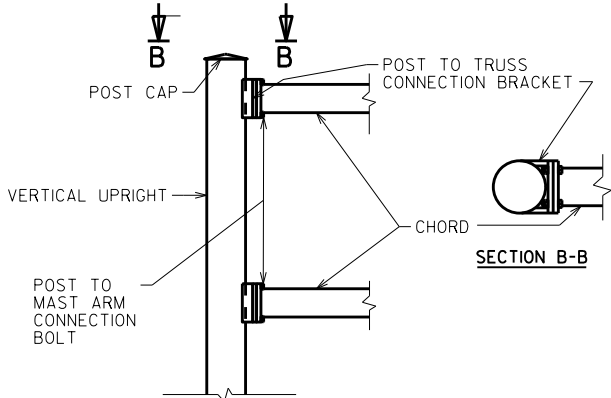
CANTIEVER SIGN BRIDGE
POST TO TRUSS CONNECTION DETAIL



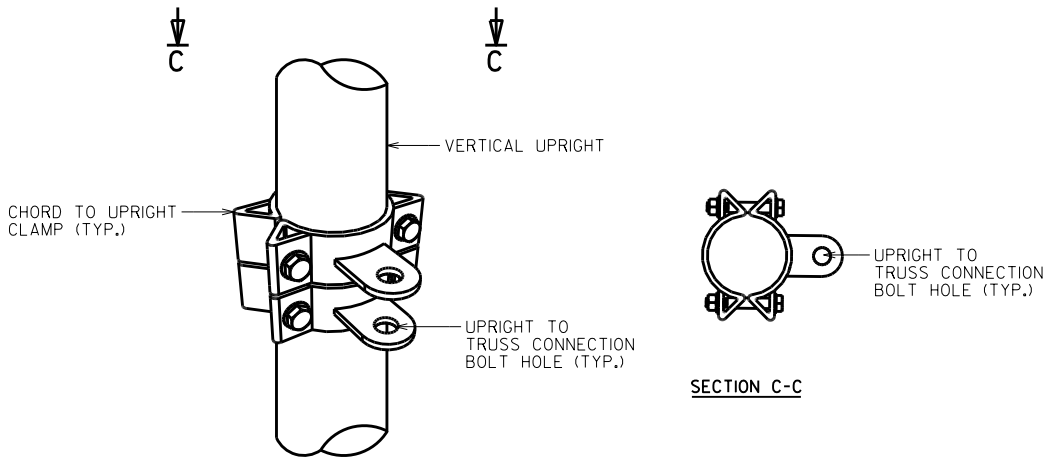
SPLICE CONNECTION BOLT DETAIL



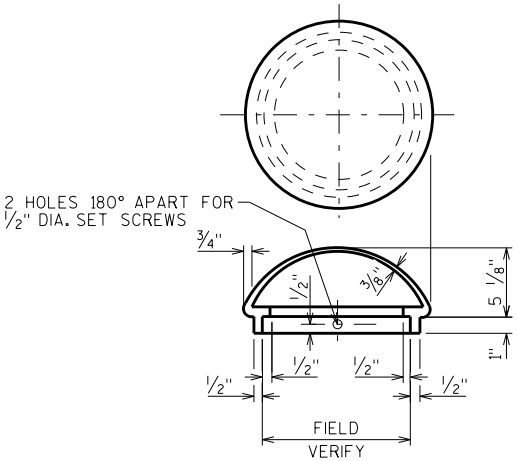
POST TO MAST ARM DETAIL



OVERHEAD POST TO TRUSS CONNECTION DETAIL II



OVERHEAD POST TO TRUSS CONNECTION DETAIL I



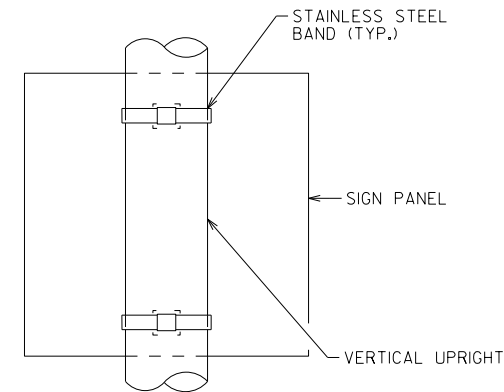
POST CAP DETAIL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
TRUSS DETAILS 2			SHEET 5

**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

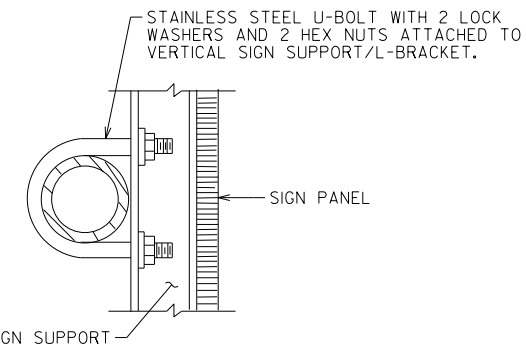
TABLE OF ESTIMATED QUANTITIES FOR SIGNS **

STRUCTURE NUMBER	SIGNS TYPE II REFLECTIVE SH	SLOTTED HOLE REPAIR ON SIGN SUPPORT BRACKET	REPLACE SIGN CONNECTION CLAMP	REPLACE U- BOLT	INSTALL ID PLAQUE	INSTALL SIGN PANEL CONNECTOR	ADJUST VERTICAL CLEARANCE
	637.2220	SPV.0060.07	SPV.0060.08	SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12
	SF	EA	EA	EA	EA	EA	EA
S110014					1		
S130061					1		
S130064				2		4	
S130071						1	
S130153						84	
S130279						6	
S130280						4	
S130282						7	
S130288					1		1
S130377	8						
S139000001					1		
S139000002					1		
S139000003					1		
S139000004					1		
S560005			2		1		
S560006			1		1		
S560007			6		1		
S560008						30	
S560015		11					
S560017		12		1			
S5604990002					1		
TOTAL	8	23	9	3	11	136	1

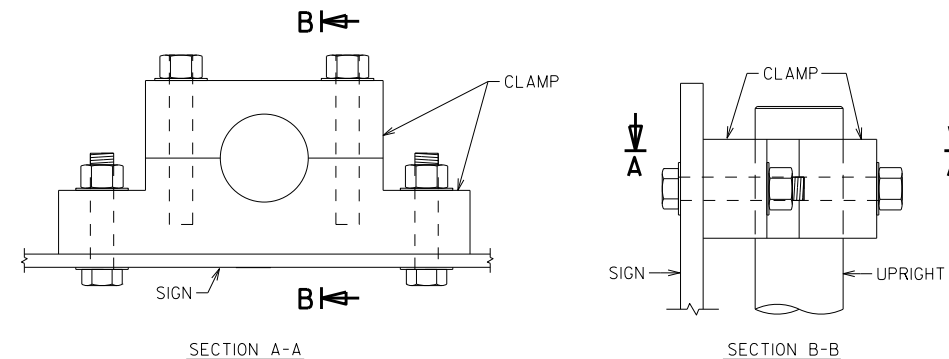


TYPE-II SIGN TO VERTICAL UPRIGHT DETAIL

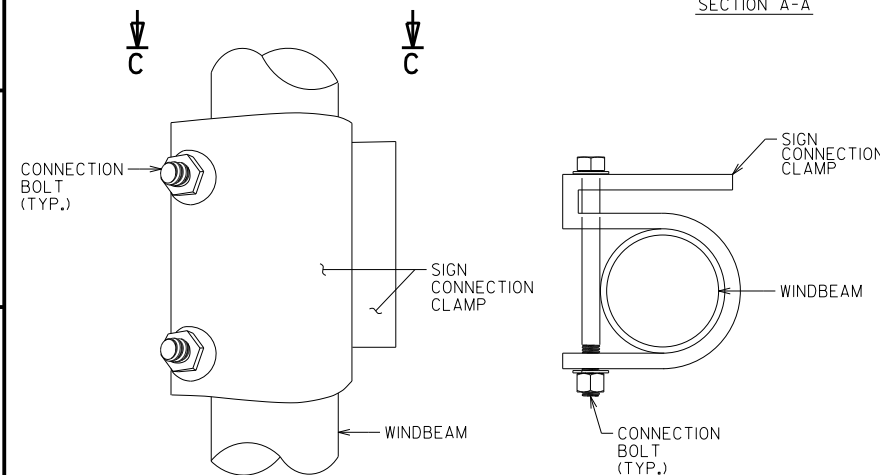
REFER TO SIGN PLATE MANUAL FOR DETAILS (SIGN BANDING DETAILS)



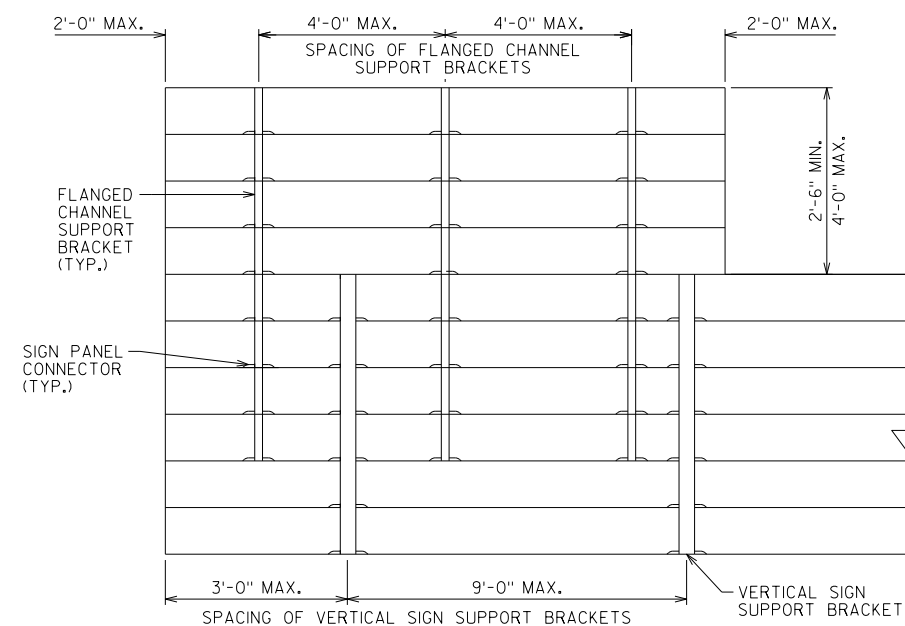
INSTALL U-BOLT & TIGHTEN LOOSE U-BOLT DETAIL



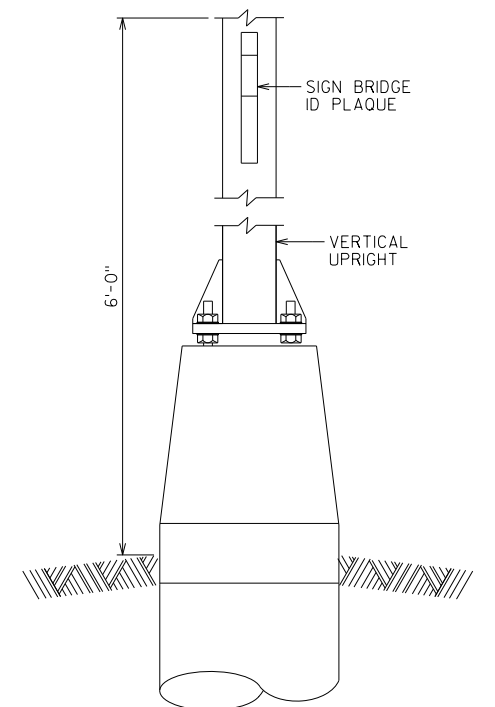
CLAMP DETAILS



SIGN CONNECTION CLAMP DETAIL (TYPE 2)



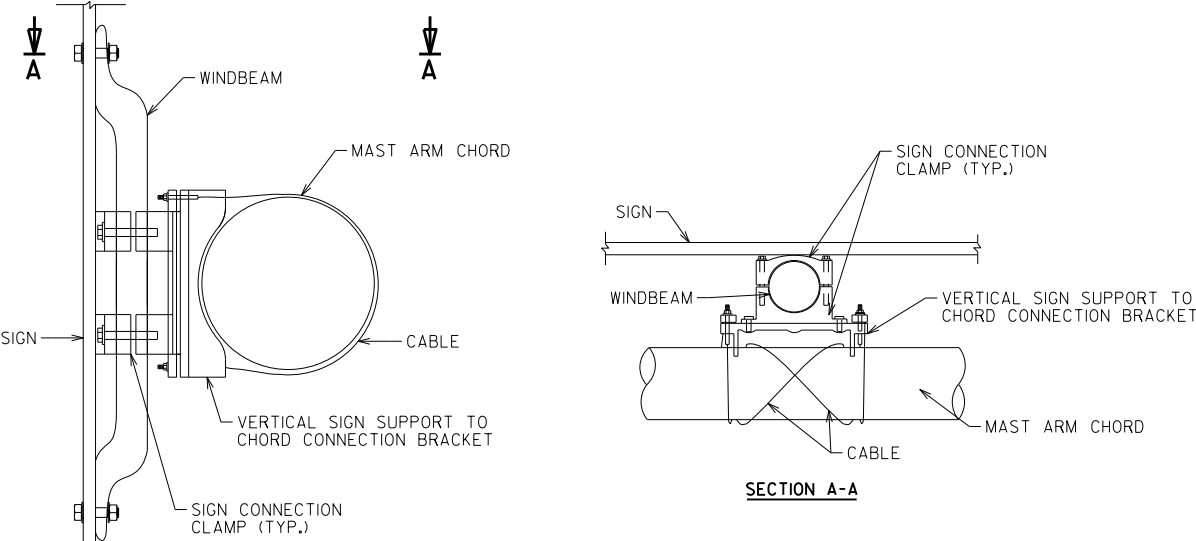
FLANGED CHANNEL SUPPORT/VERTICAL SIGN SUPPORT BRACKET DETAILS



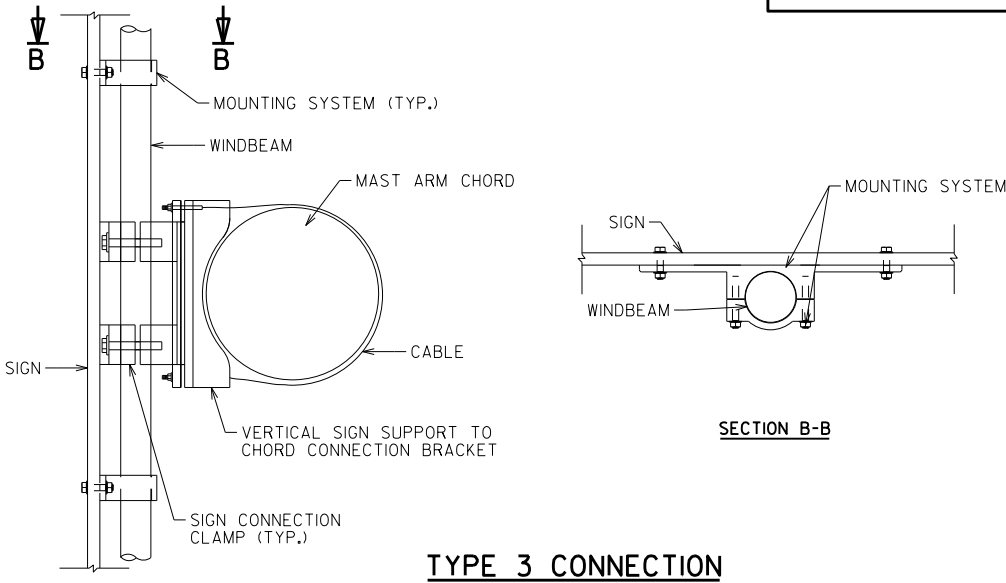
SIGN BRIDGE ID PLAQUE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
SIGN PANEL DETAILS 1		SHEET 6	

SCALE = 1:00



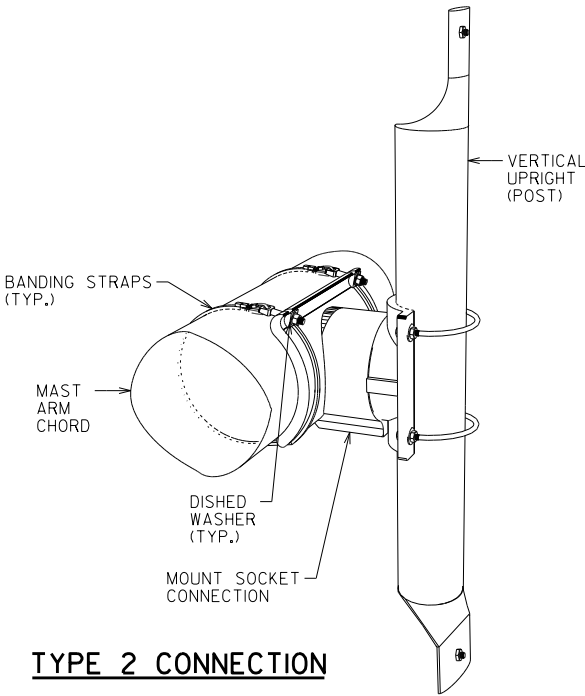
**TYPE 1
CONNECTION**



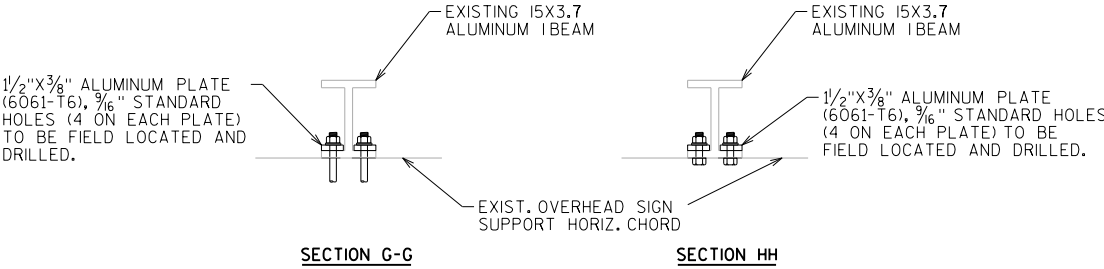
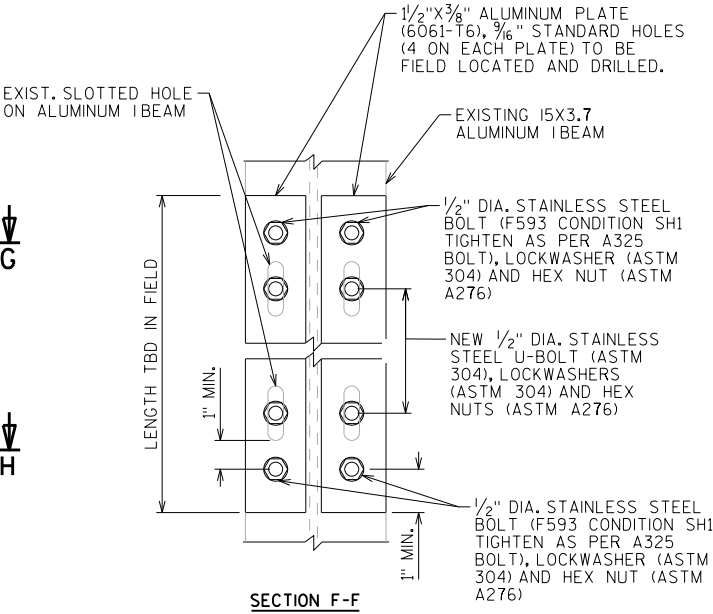
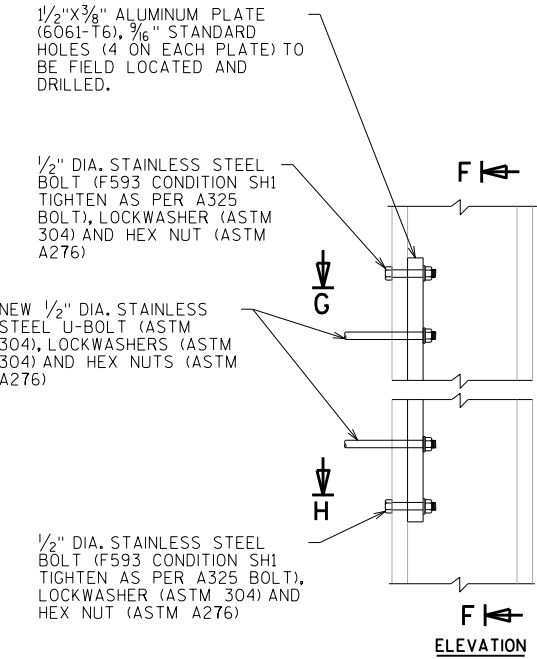
TYPE 3 CONNECTION

SIGN PANEL CONNECTION DETAIL (TYPE II SIGN)

NOTE: SOME TYPE II SIGN PANELS MAY HAVE SIGN TYPE I CONNECTION. REFER TO SHEET "SIGN PANEL DETAILS (1 OF 2)".



TYPE 2 CONNECTION



SLOTTED VERTICAL SIGN SUPPORT REPAIR DETAIL

EACH REPAIR INCLUDES ALL BOLT CONNECTIONS PER I-BEAM

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
SIGN PANEL DETAILS 2			SHEET 7

**QUANTITIES LISTED IN THIS TABLE ARE FOR INFORMATION ONLY, AND ARE NOT TO BE COUNTED AS ADDITIONAL QUANTITIES TO THOSE LISTED ON THE STRUCTURE ELEVATION SHEETS.

STATE PROJECT NUMBER

1009-30-16

TABLE OF ESTIMATED QUANTITIES FOR CATWALKS AND ELECTRICAL **

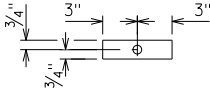
STRUCTURE NUMBER	REPLACE HANDRAIL HINGE PINS	REPLACE SAFETY CHAIN	INSTALL CONDUIT PLUG	SECURE/REPLACE HANDHOLE COVER
	SPV.0060.13	SPV.0060.14	SPV.0060.15	SPV.0060.16
	EA	EA	EA	EA
S130036	1	1	1	
S130037	1	2	1	
S130060	1	1	1	
S130061			1	1
S130064			1	
S13248				1
S139000004				1
S230002			1	
TOTAL	3	4	6	3

CATWALK NOTES:

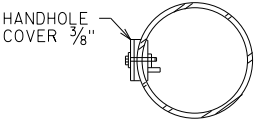
1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE OF THE ITEM REQUIRED.
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO:
-ANCHOR BOLTS/HEX BOLTS ASTM F593 ANY ALLOY GROUP 1,2,OR3
-HEX NUTS ASTM F594
-WASHERS ASTM A240
ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" ϕ AND 12% FOR 3/4" ϕ AND SMALLER.

ELECTRICAL NOTES:

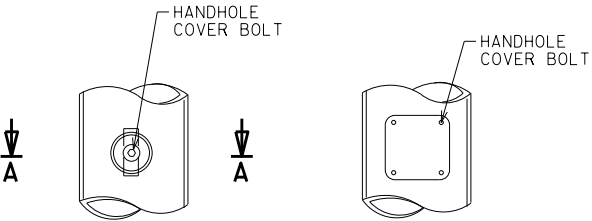
1. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL REPAIRS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE OF THE ITEM REQUIRED.
3. ALL STAINLESS STEEL BOLTS, LOCK WASHERS, AND NUTS SHALL CONFORM TO:
-HEX BOLTS ASTM F593 ANY ALLOY GROUP 1, 2, OR 3
-HEX NUTS ASTM F594
-WASHERS ASTM A240
ANY OF THE 300 SERIES WHICH HAVE A MINIMUM YIELD OF 40,000 PSI AND ELONGATION OF 15% FOR OVER 3/4" ϕ AND 12% FOR 3/4" ϕ AND SMALLER.
4. THE CONTRACTOR SHALL USE ANTI-SIEZE COMPOUND ON ELECTRICAL HANDHOLE COVER BOLTS, JUNCTION BOX BOLTS, LUMINAIRE COVER BOLTS, AND CONDUIT PLUGS PER SECTION 651.3.1(5) OF THE WISDOT STANDARD SPECIFICATION.
5. CAP ALL EXPOSED WIRES AND CLOSE THE JUNCTION BOX.
6. REPLACE THE JUNCTION BOX BOLT WITH A STAINLESS STEEL BOLT.



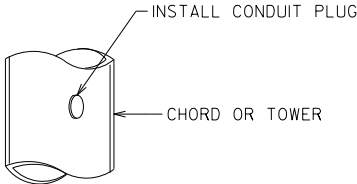
LOCKING PLATE



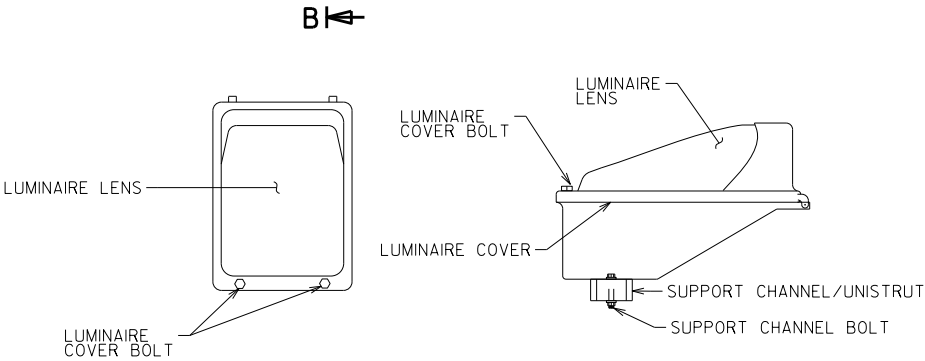
SECTION A-A



HANDHOLE DETAILS



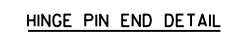
CONDUIT PLUG DETAIL



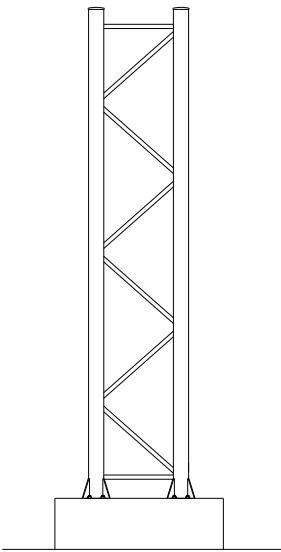
TYPICAL LUMINAIRE DETAILS

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
ELECTRICAL DETAILS		SHEET 8	

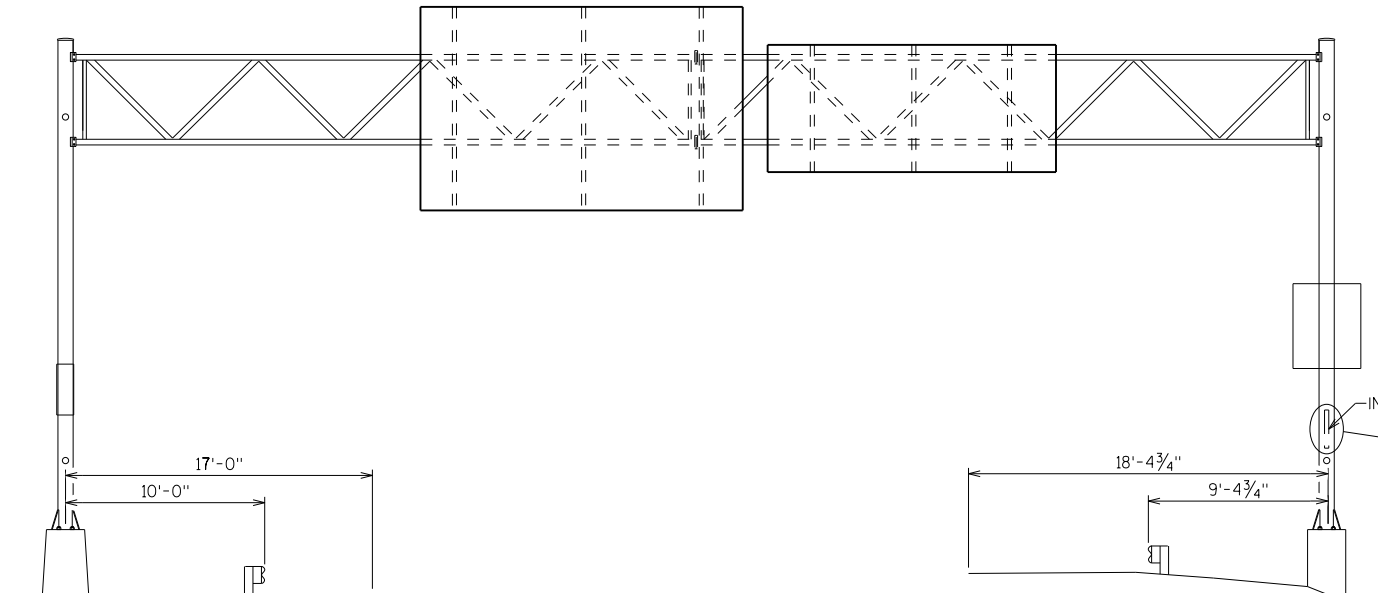
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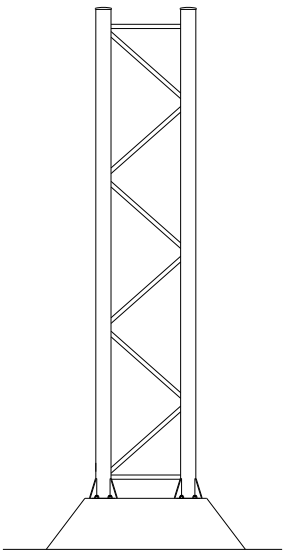
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
CATWALK DETAILS		SHEET 9	



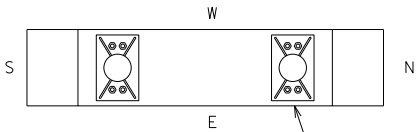
LOOKING WEST



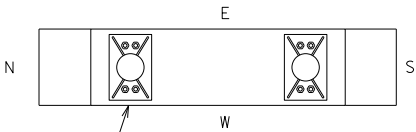
LOOKING SOUTH



LOOKING EAST



WEST FOUNDATION DETAIL



EAST FOUNDATION DETAIL

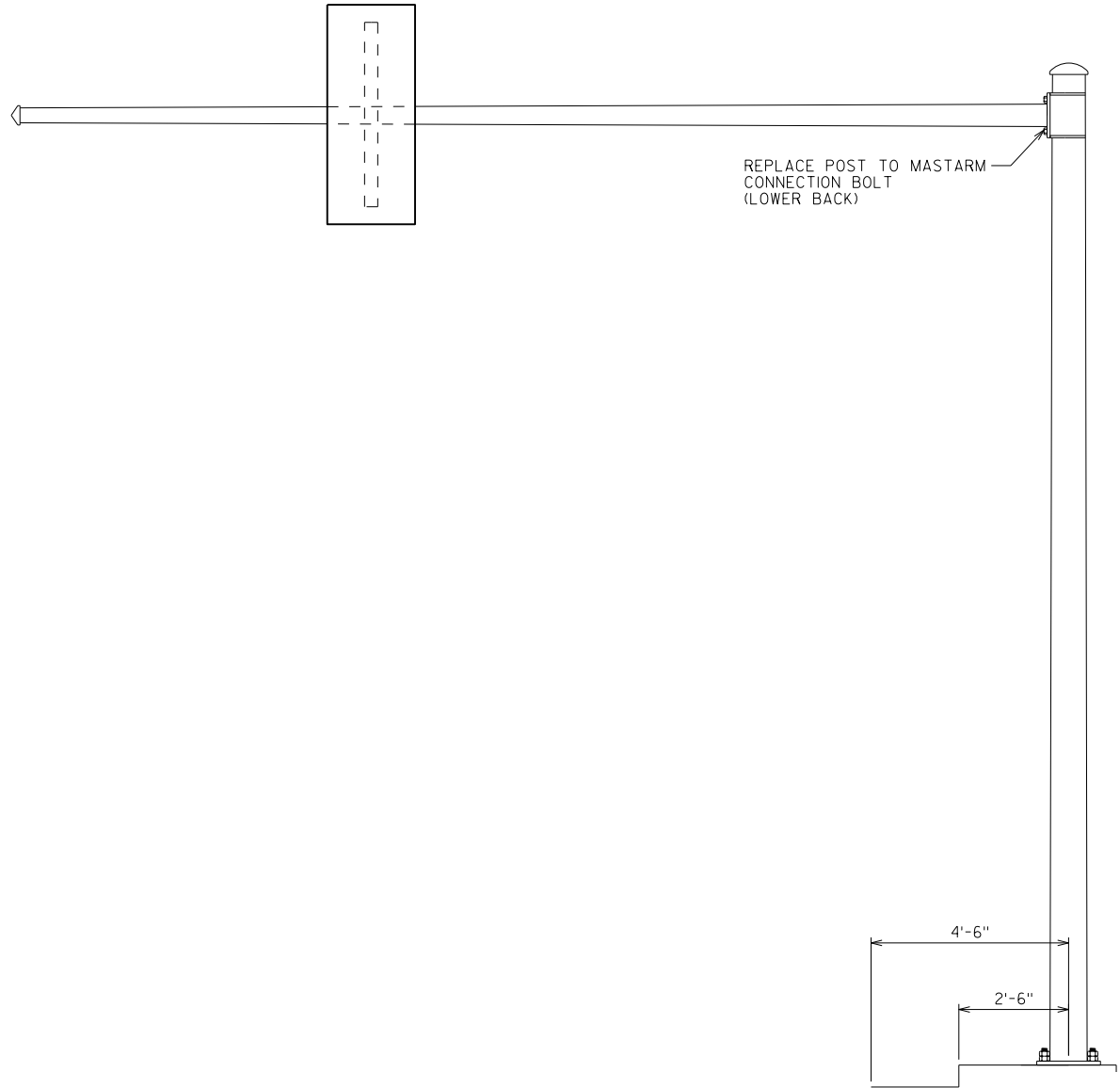
REMOVE GROUT PADS

S
1
1
0
0
1
4

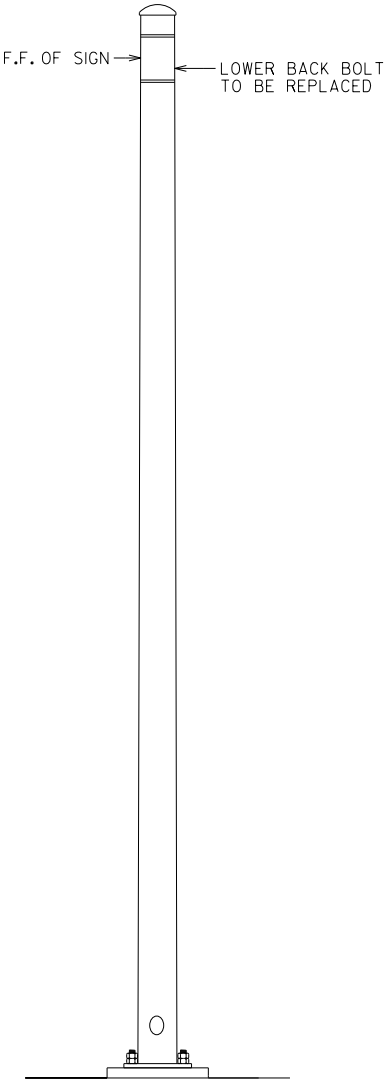
INSTALL ID PLAQUE

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.04	REMOVE GROUT PAD	4 EACH	2
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-11-14		SHEET 10	



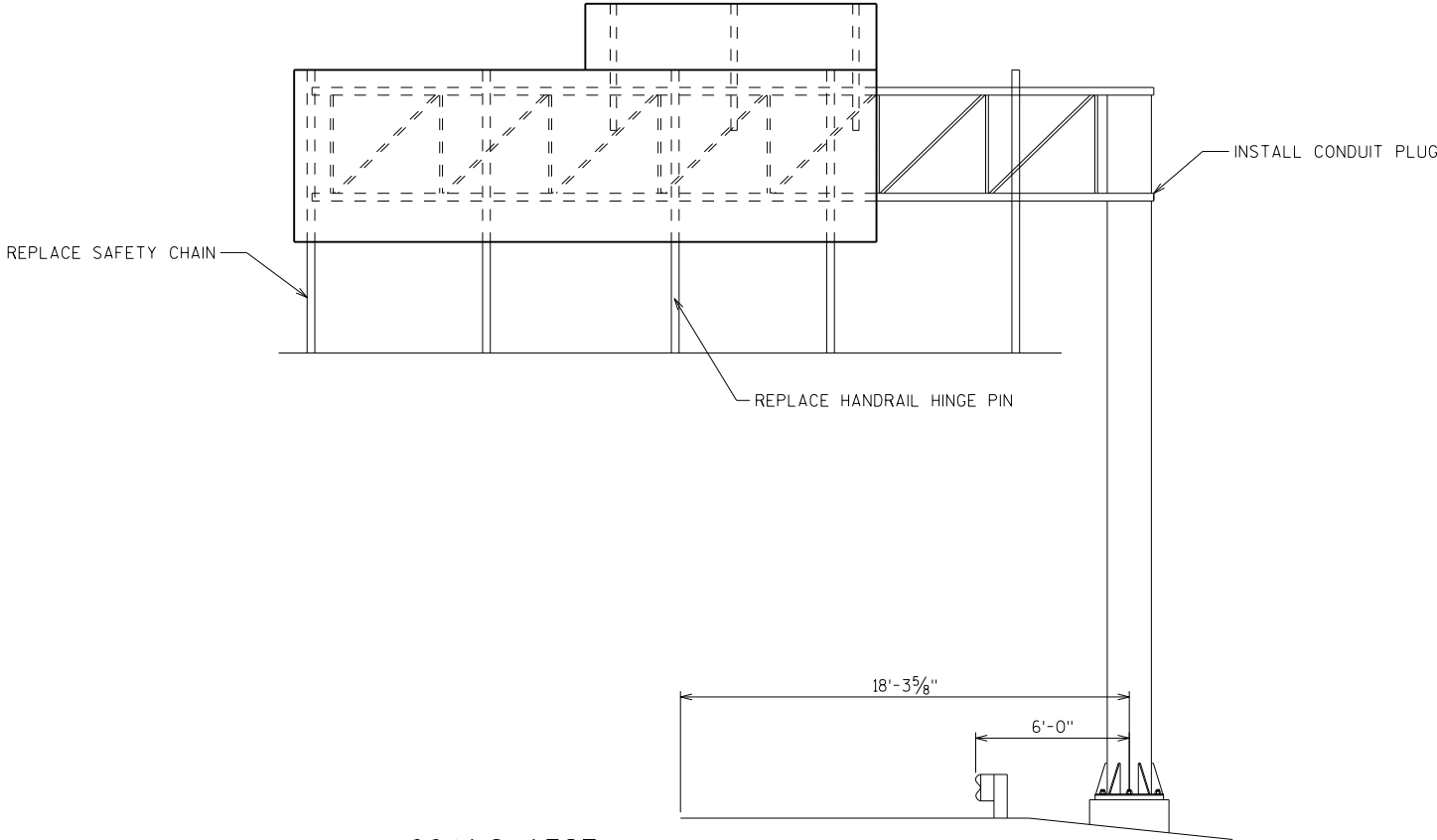
LOOKING NORTH



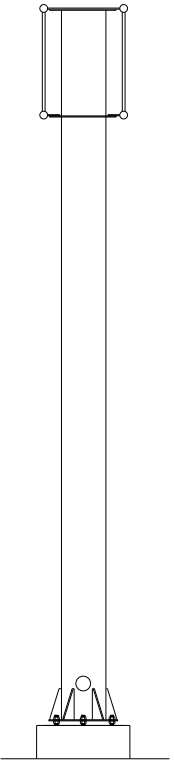
LOOKING WEST

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	TIGHTEN STRUCTURAL CONNECTION BOLT (FRICTION)	1 EACH	4

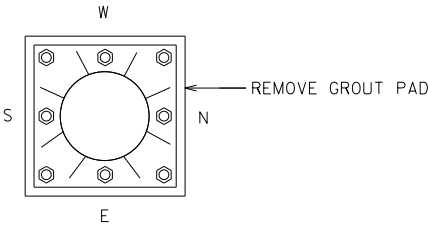
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-11-21		SHEET 11	



LOOKING WEST



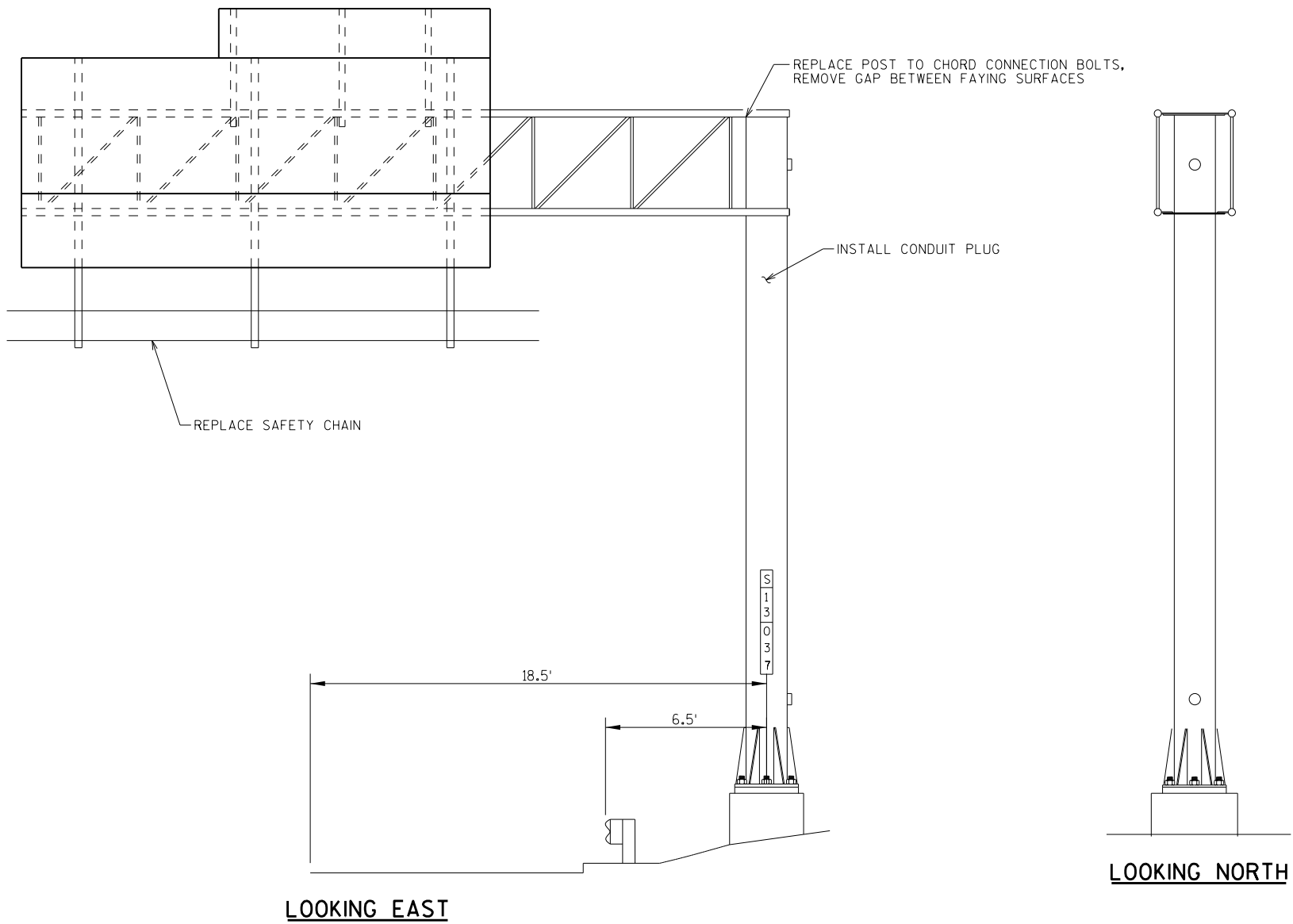
LOOKING SOUTH



FOUNDATION DETAIL

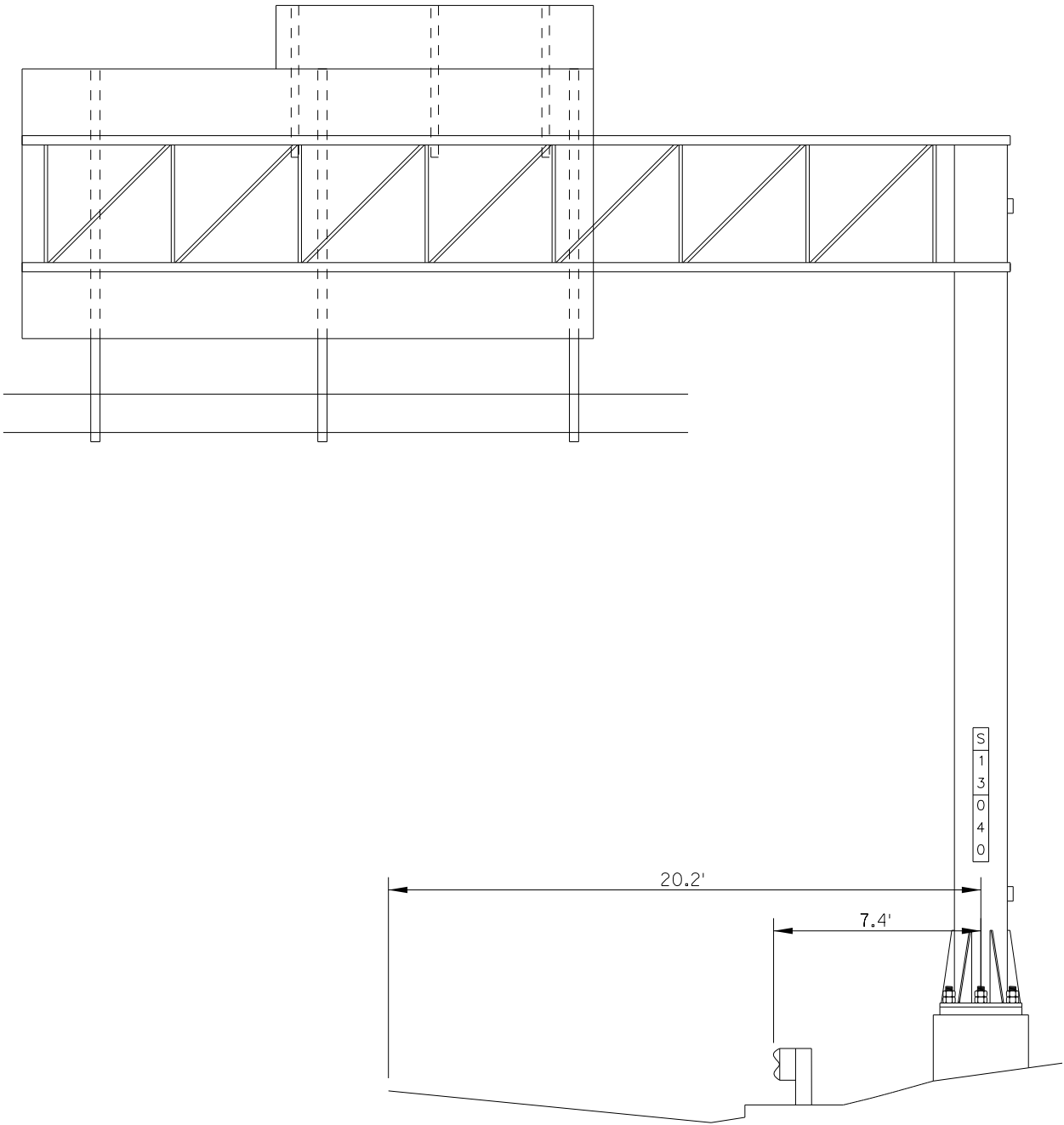
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.04	REMOVE GROUT PAD	1 EACH	2
SPV.0060.13	REPLACE HANDRAIL HINGE PINS	1 EACH	8
SPV.0060.14	REPLACE SAFETY CHAIN	1 EACH	8
SPV.0060.15	INSTALL CONDUIT PLUG	1 EACH	8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-36			SHEET 12

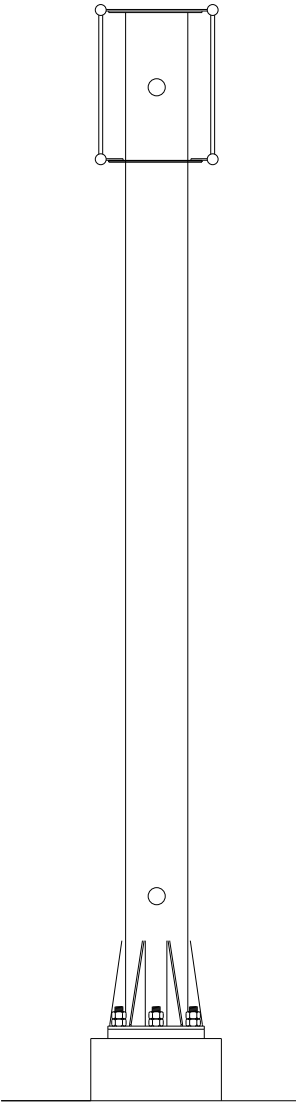


ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.04	REMOVE GROUT PAD	1 EACH	2
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	32 EACH	4
SPV.0060.13	REPLACE HANDRAIL HINGE PIN	1 EACH	8
SPV.0060.14	REPLACE SAFETY CHAIN	2 EACH	8
SPV.0060.15	INSTALL CONDUIT PLUG	1 EACH	8

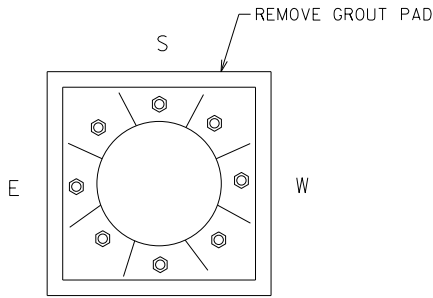
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-37		SHEET 13	



LOOKING WEST



LOOKING SOUTH

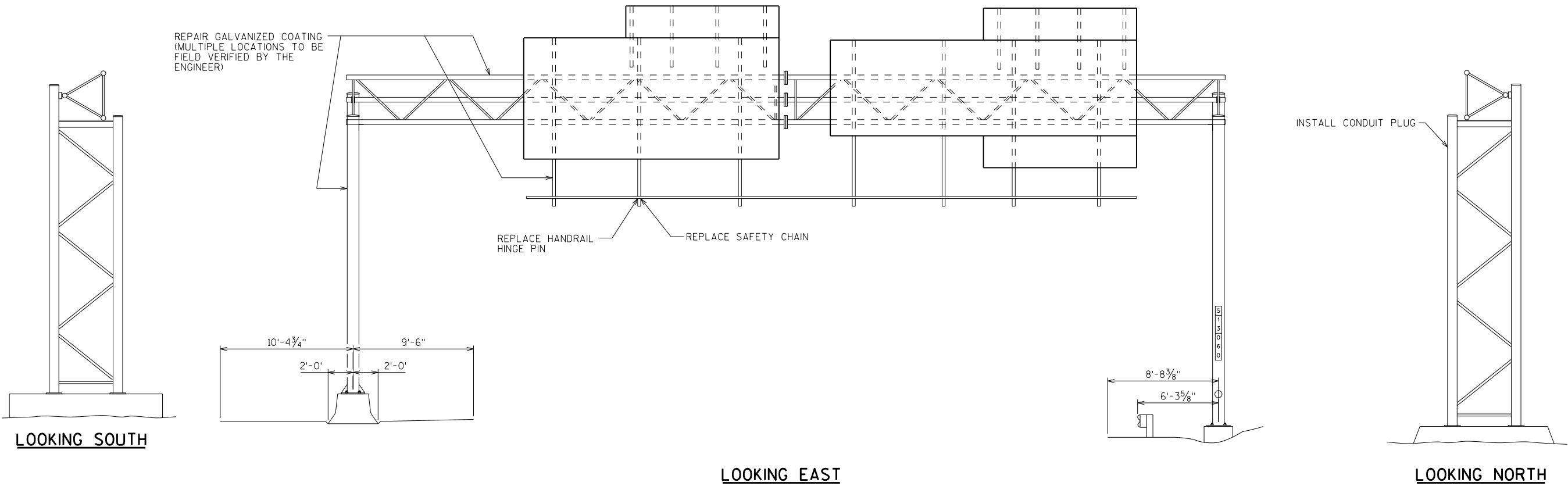


FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.04	REMOVE GROUT PAD	1 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-40			SHEET 14

SCALE = 2.50

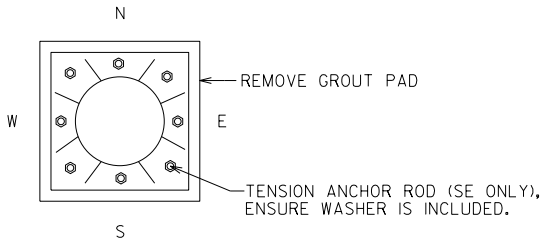
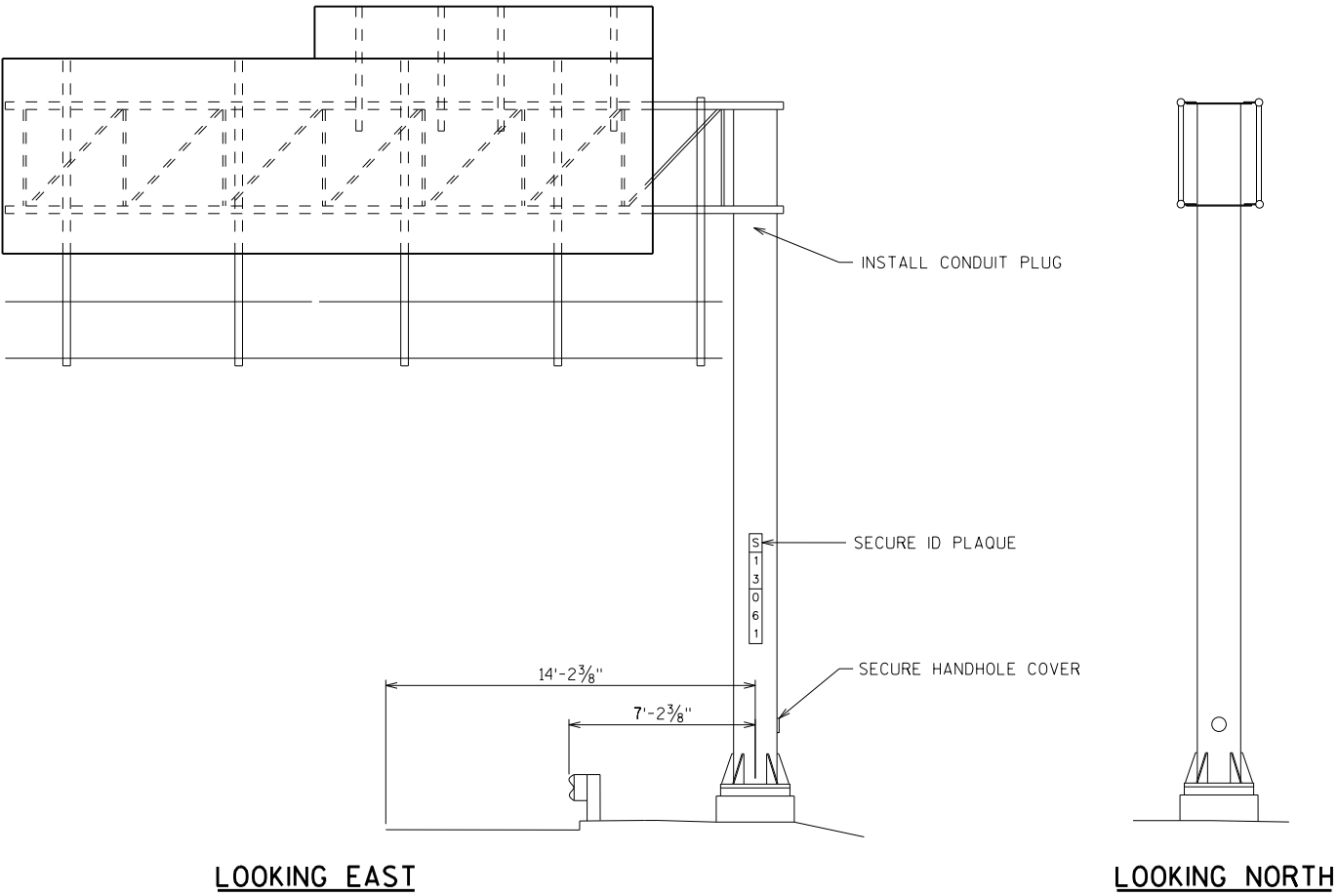


NORTH FOUNDATION DETAIL

SOUTH FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
509.1500	CONCRETE SURFACE REPAIR	2 SF	2
SPV.0060.04	REMOVE GROUT PAD	4 EACH	2
SPV.0060.13	REPLACE HANDRAIL HINGE PIN	1 EACH	8
SPV.0060.14	REPLACE SAFETY CHAIN	1 EACH	8
SPV.0060.15	INSTALL CONDUIT PLUG	1 EACH	8
SPV.0165.01	REPAIR GALVANIZED COATING	5 SF	2

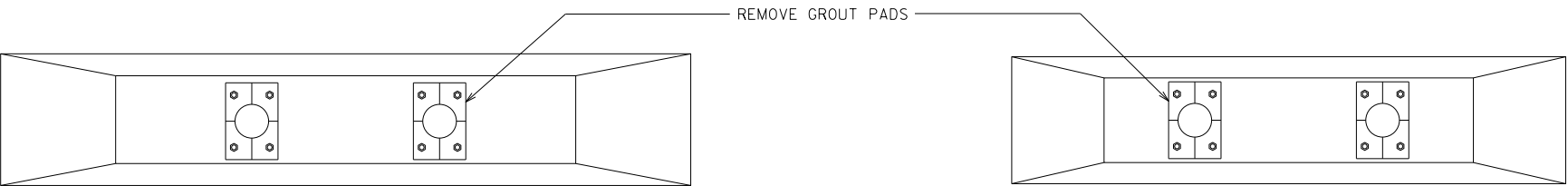
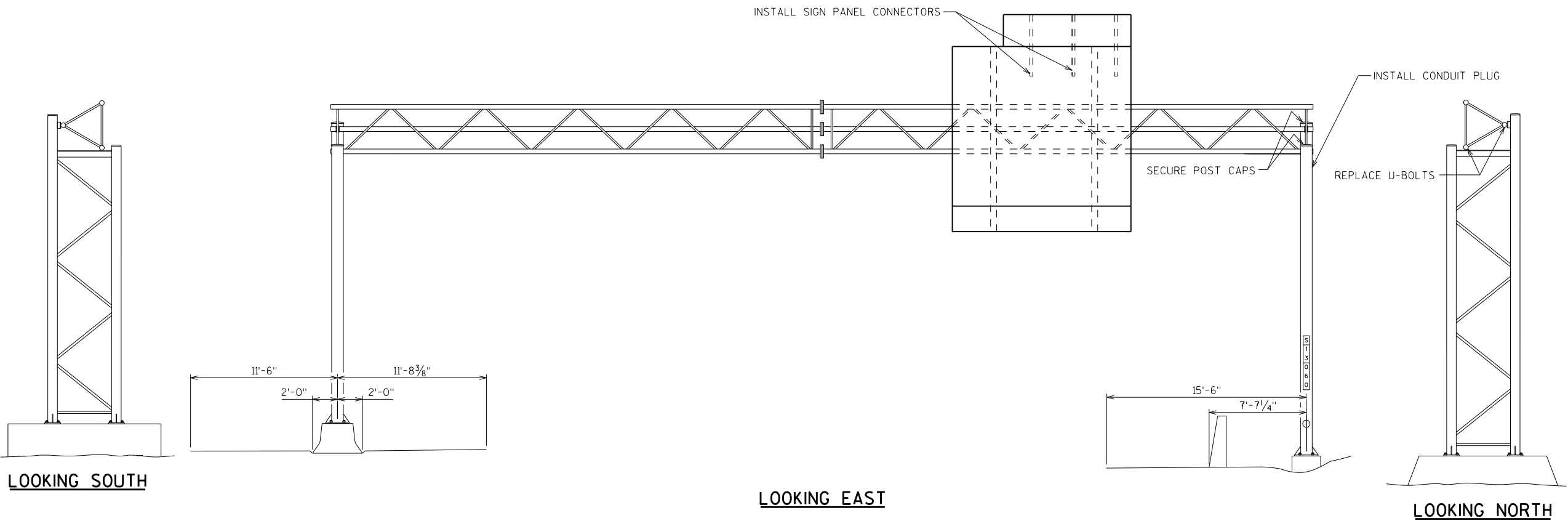
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-60		SHEET 15	



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	1 EACH	2
SPV.0060.04	REMOVE GROUT PAD	1 EACH	2
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6
SPV.0060.15	INSTALL CONDUIT PLUG	1 EACH	8
SPV.0060.16	SECURE/REPLACE HANDHOLE COVER	1 EACH	8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-61			SHEET 16

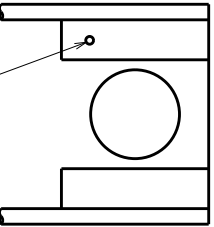
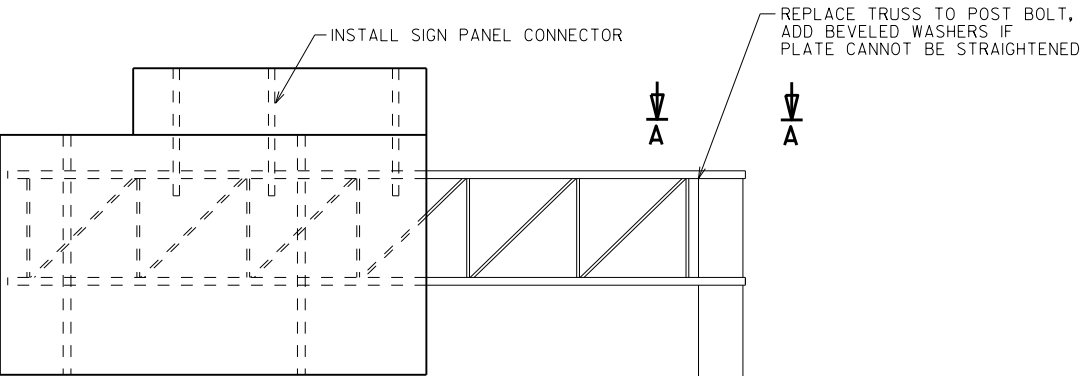


FOUNDATION DETAIL

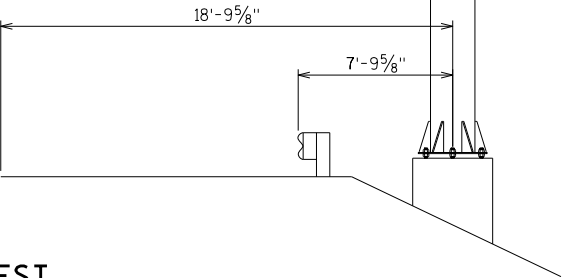
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.04	REMOVE GROUT PAD	4 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	2 EACH	4
SPV.0060.09	REPLACE U-BOLT	2 EACH	6
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	4 EACH	6
SPV.0060.15	INSTALL CONDUIT PLUG	1 EACH	8

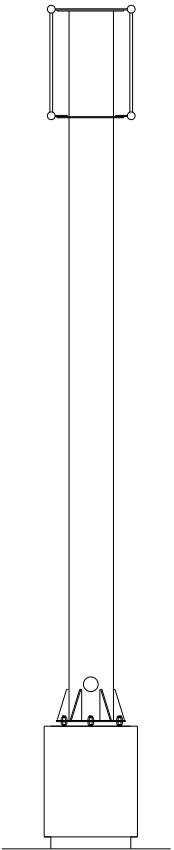
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-64		SHEET 17	



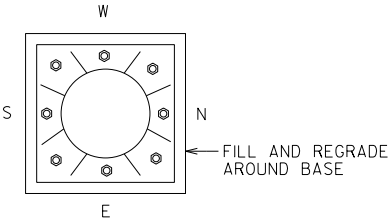
SECTION A-A



LOOKING WEST



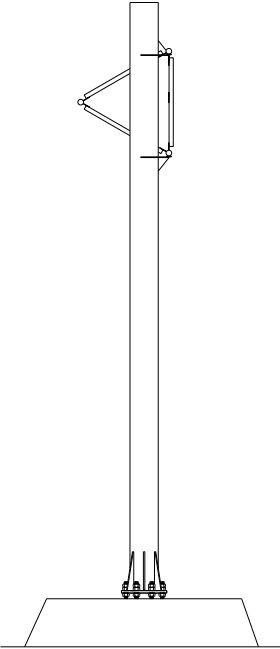
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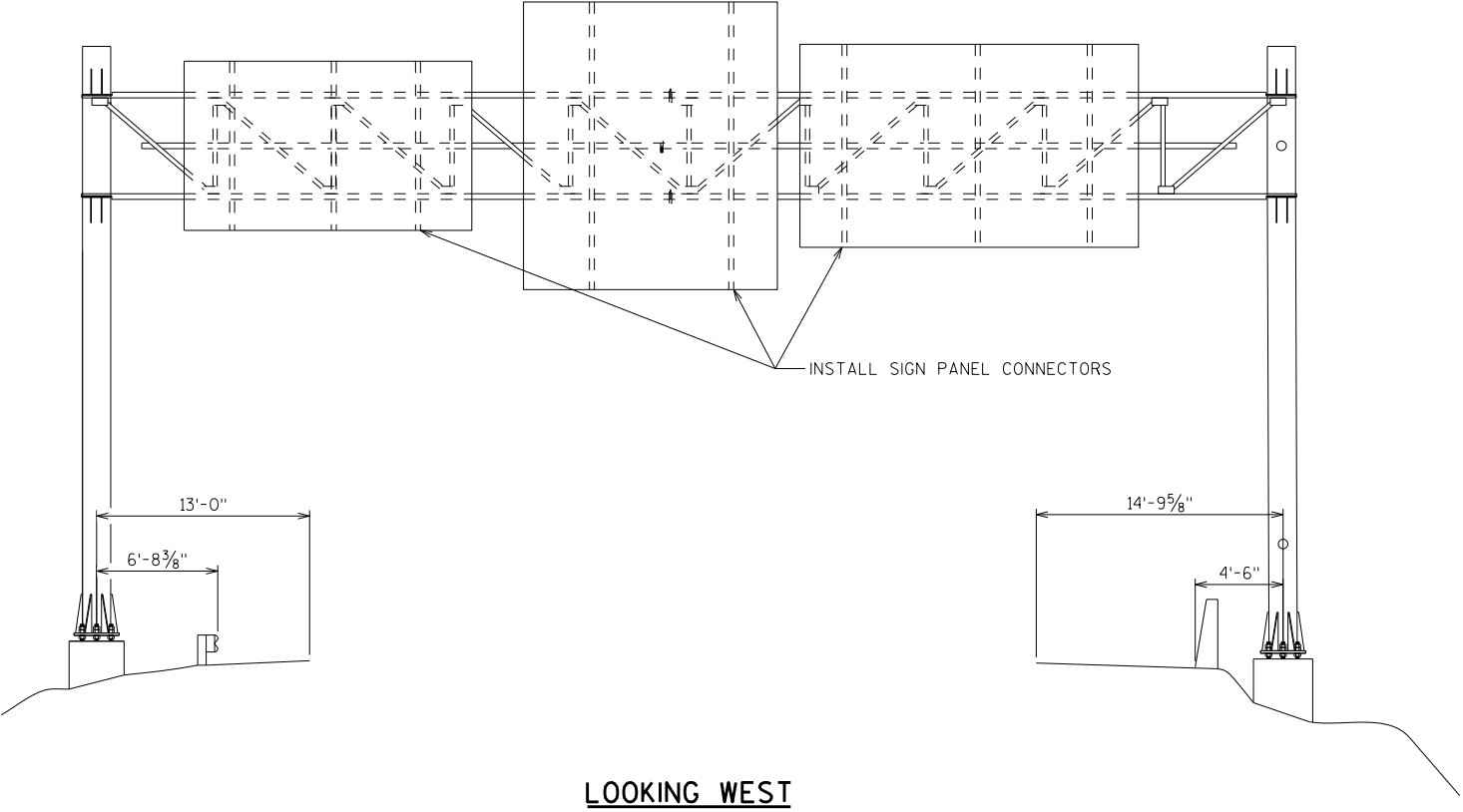
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.02	REMOVE DEBRIS AND REGRADE	1 EACH	2
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	1 EACH	4
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	1 EACH	6

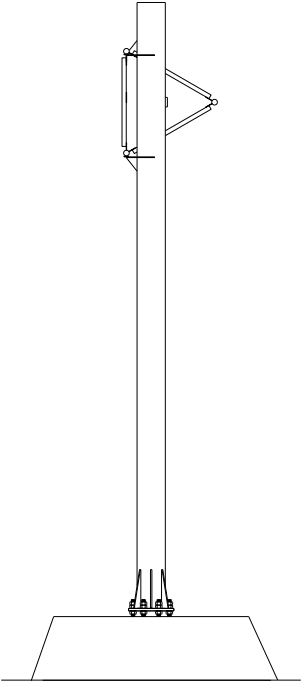
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-71		SHEET 18	



LOOKING NORTH



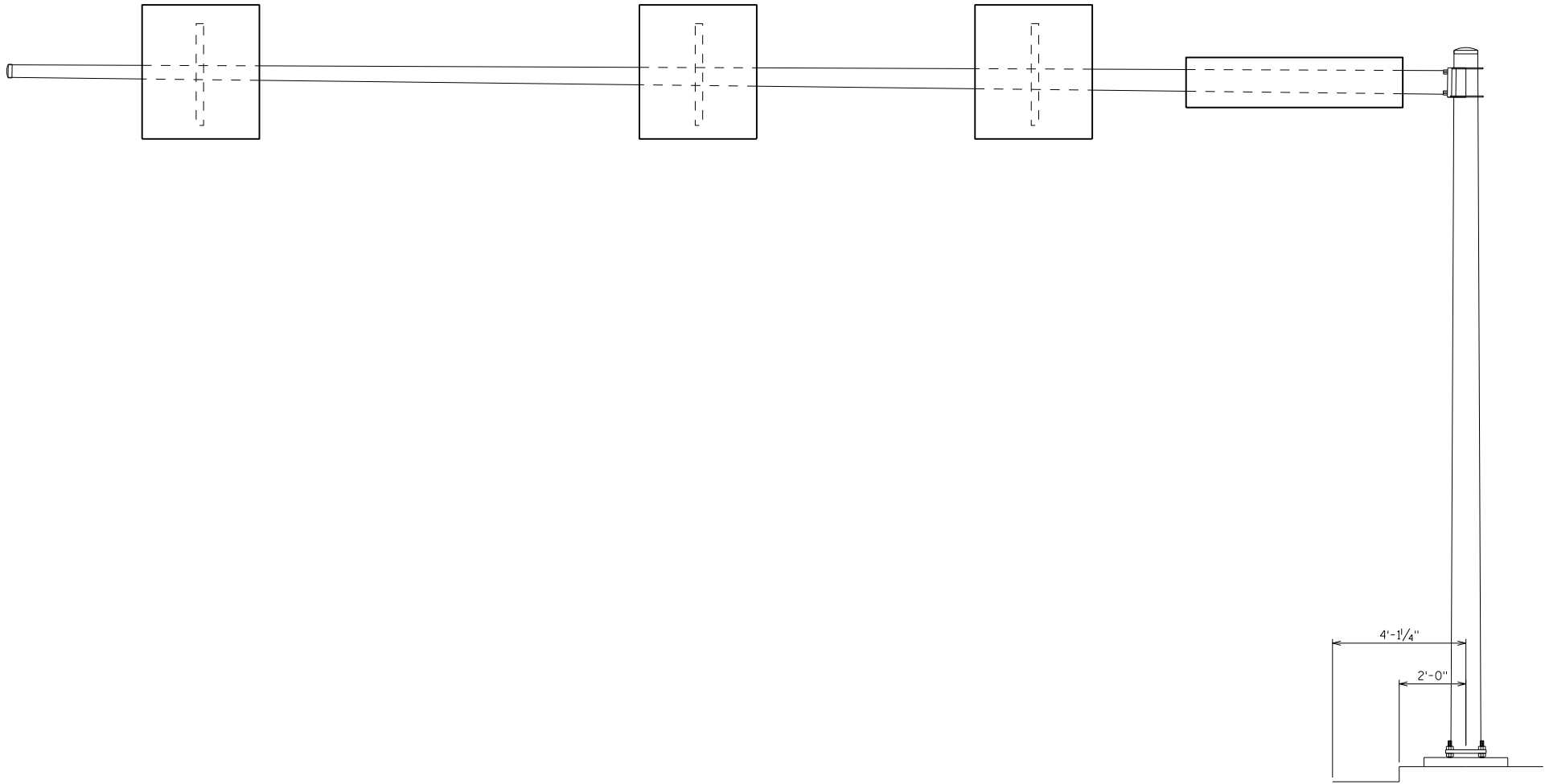
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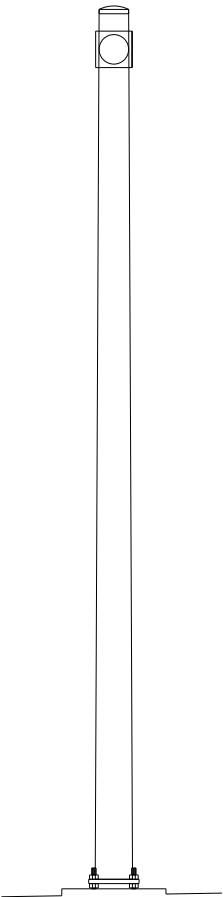
LOOKING SOUTH

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	84 EACH	6

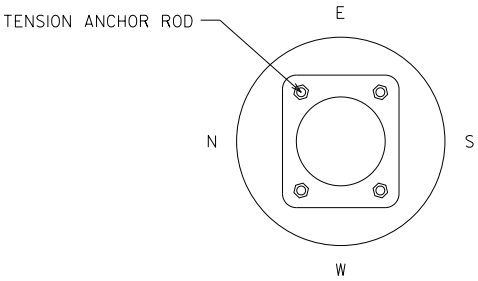
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-153		SHEET 19	



LOOKING EAST



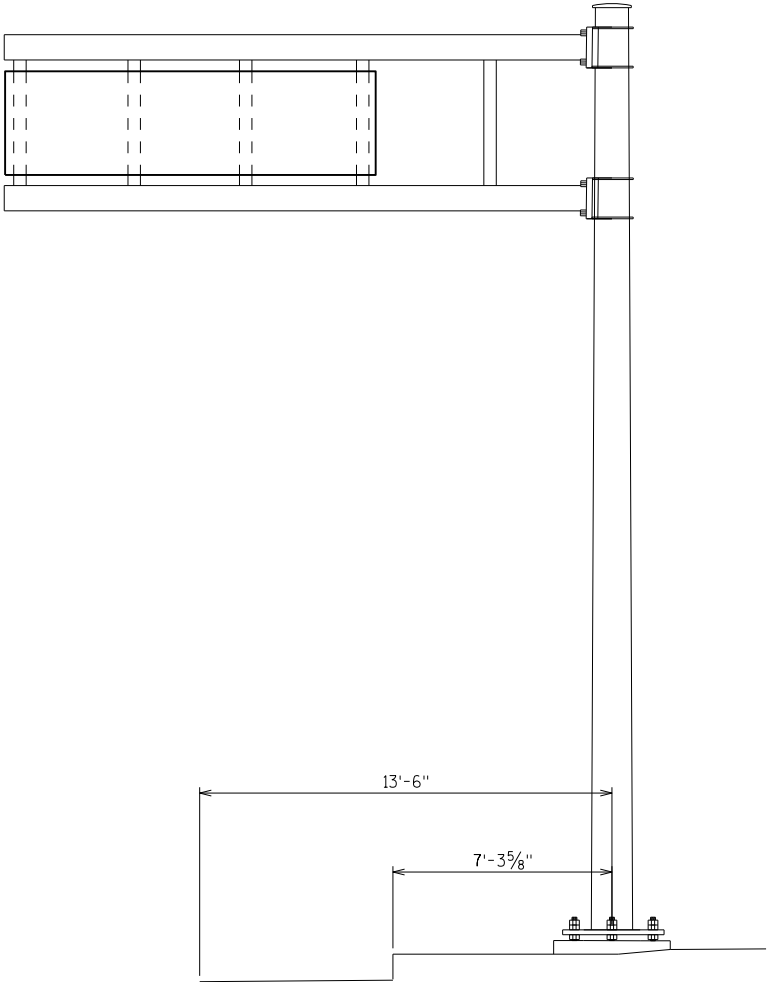
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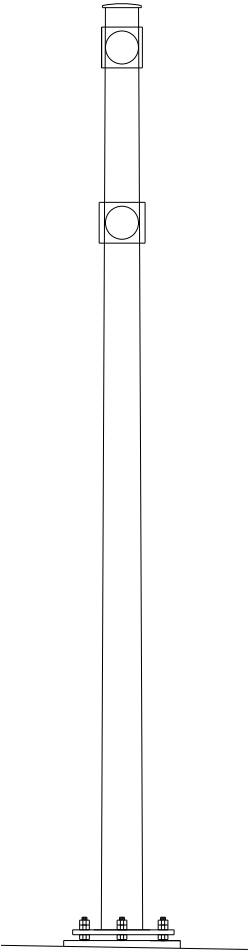
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	4 EACH	2

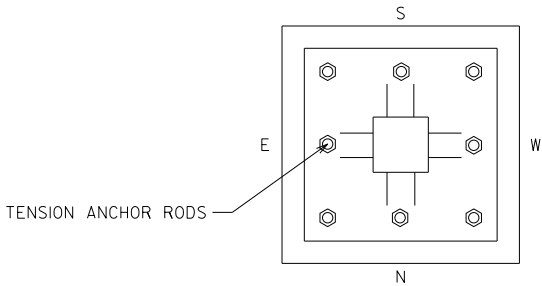
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-202		SHEET 20	



LOOKING SOUTH



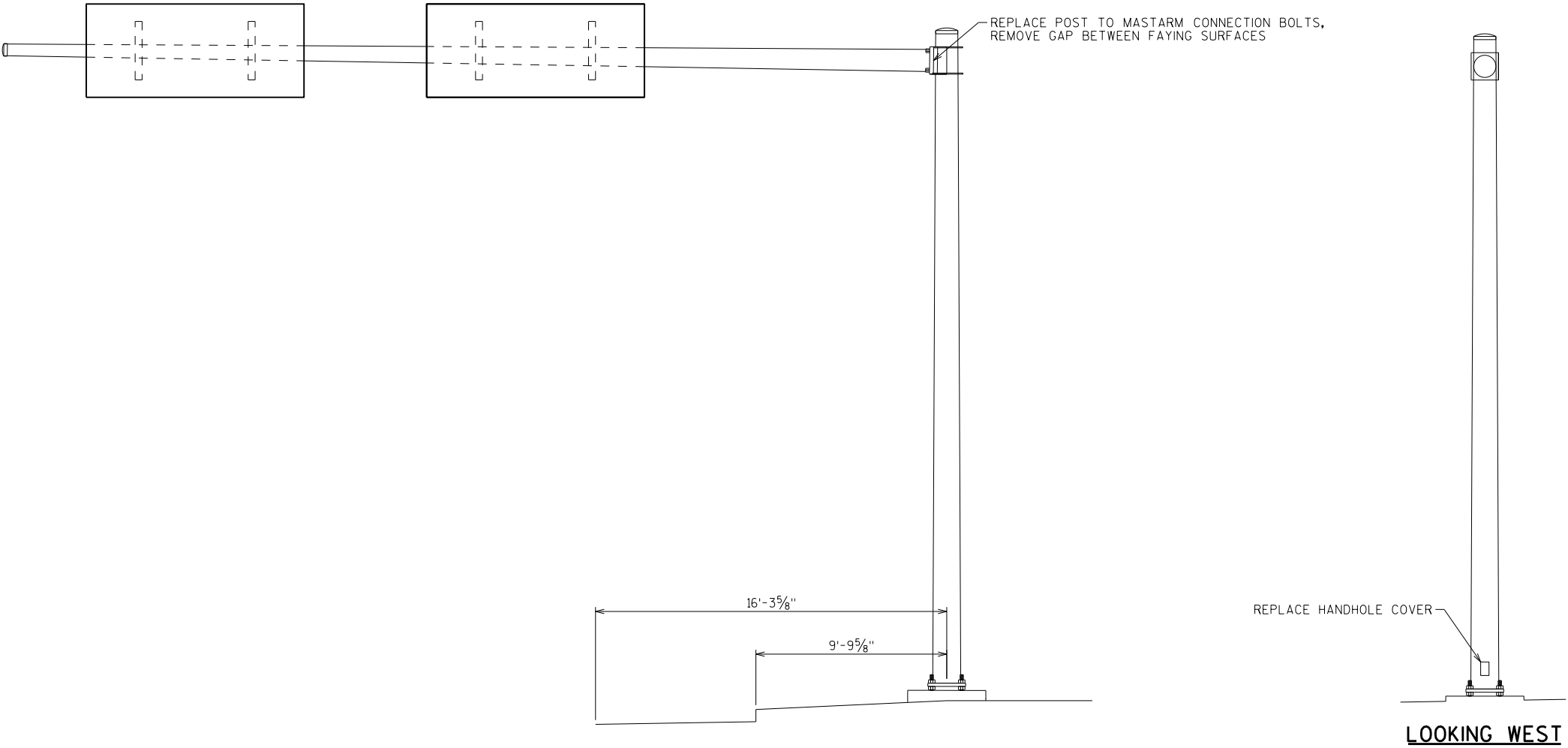
LOOKING EAST



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-205		SHEET 21	

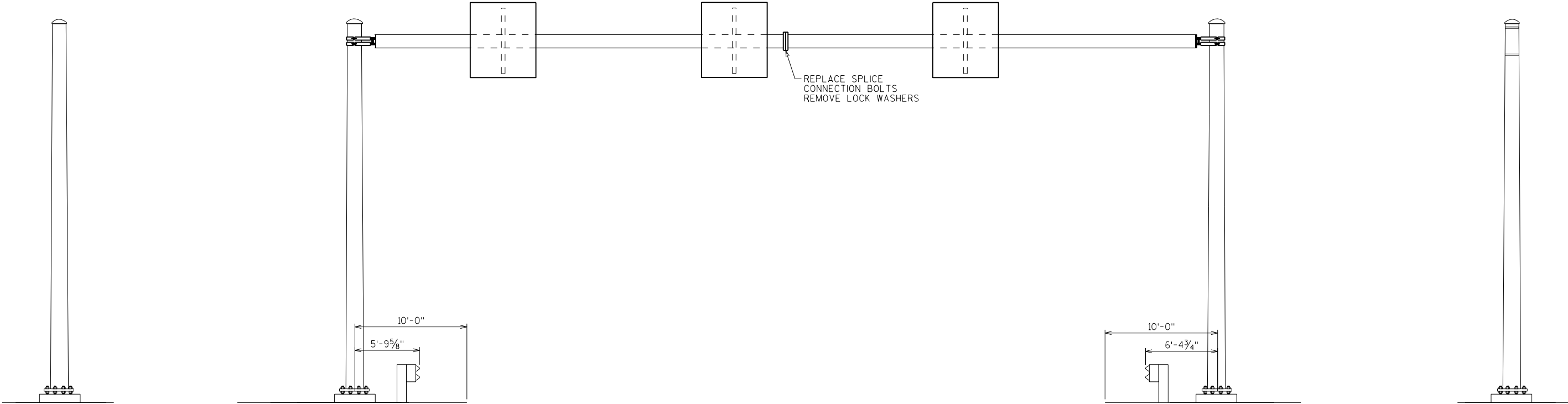


8

8

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	4 EACH	4
SPV.0060.16	SECURE/REPLACE HANDHOLE COVER	1 EACH	8

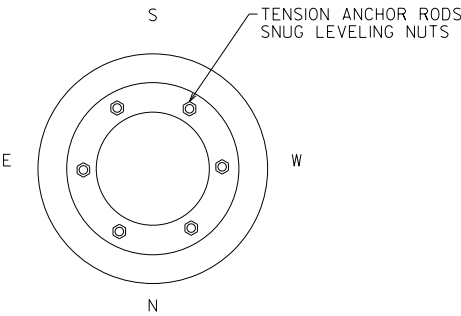
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-248		SHEET 22	



LOOKING WEST

LOOKING SOUTH

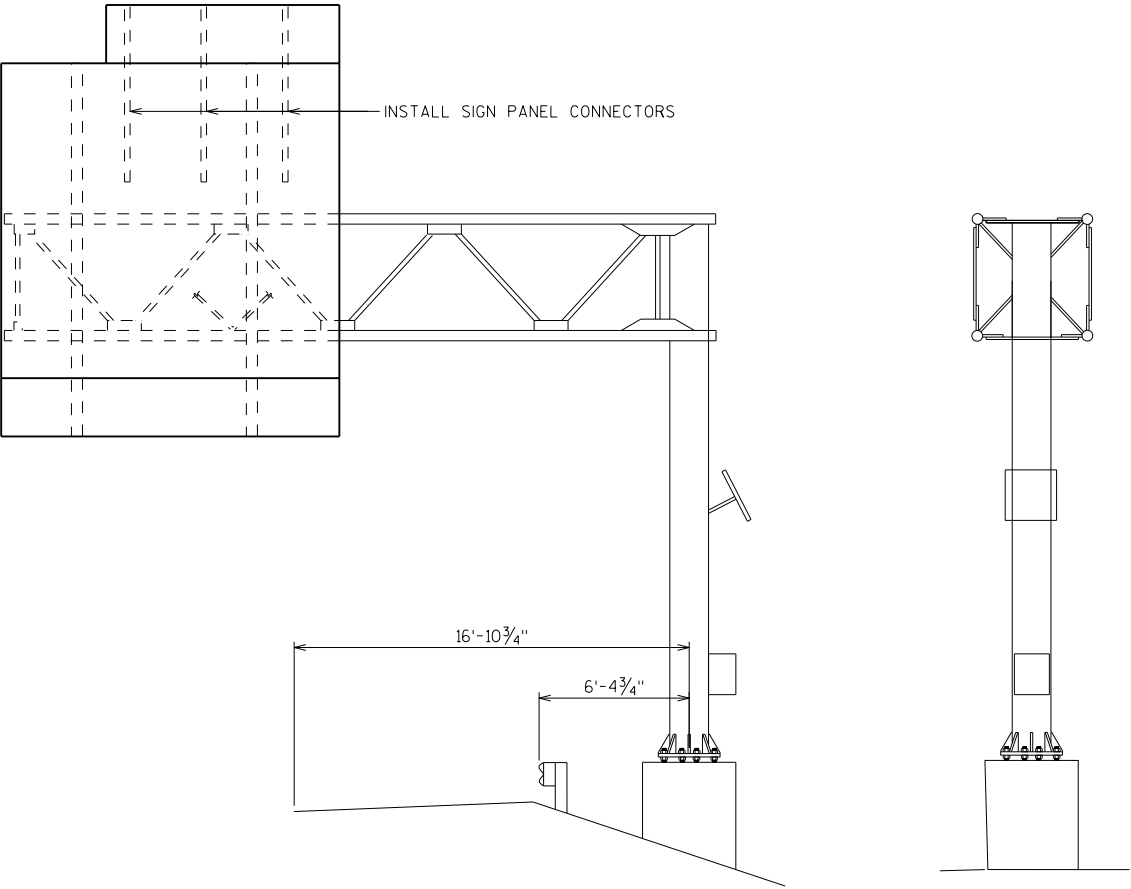
LOOKING EAST



WEST FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	6 EACH	4

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-258		SHEET 23	

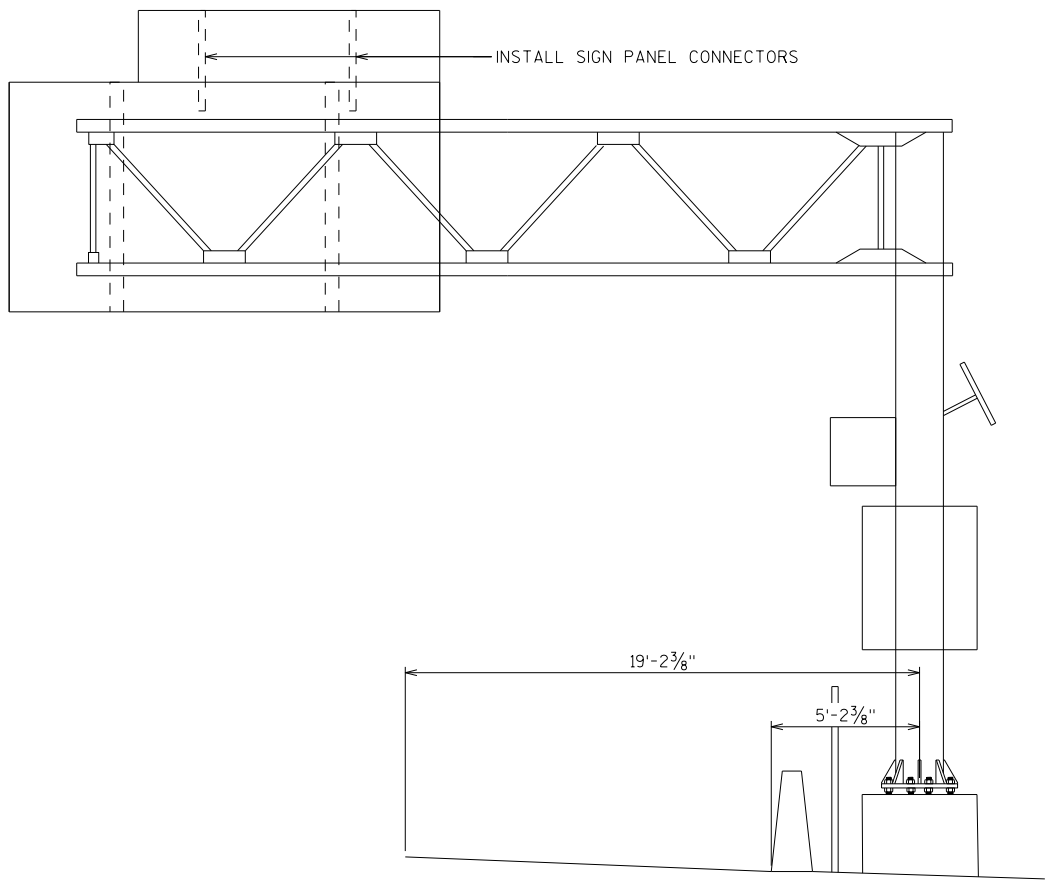


LOOKING EAST

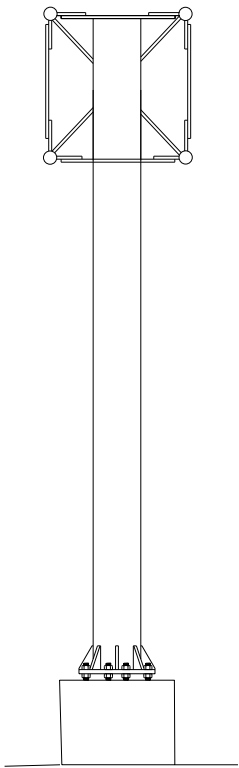
LOOKING NORTH

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	6 EACH	6

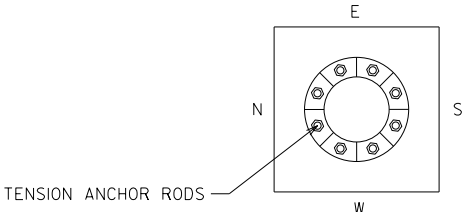
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-279		SHEET 24	



LOOKING EAST



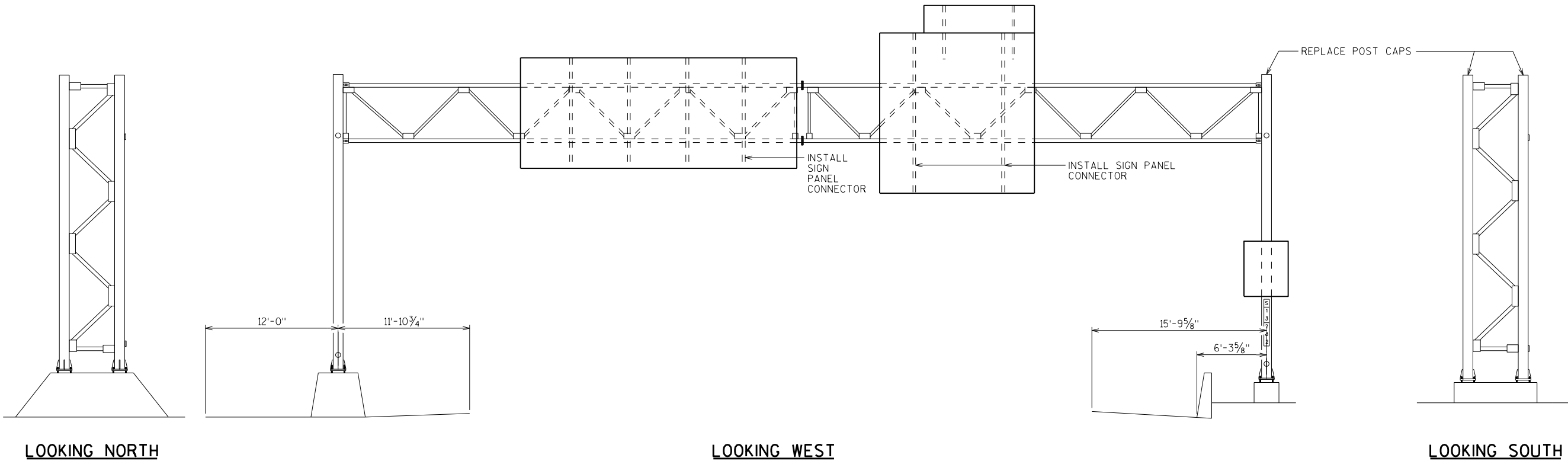
LOOKING NORTH



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	4 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-280			SHEET 25



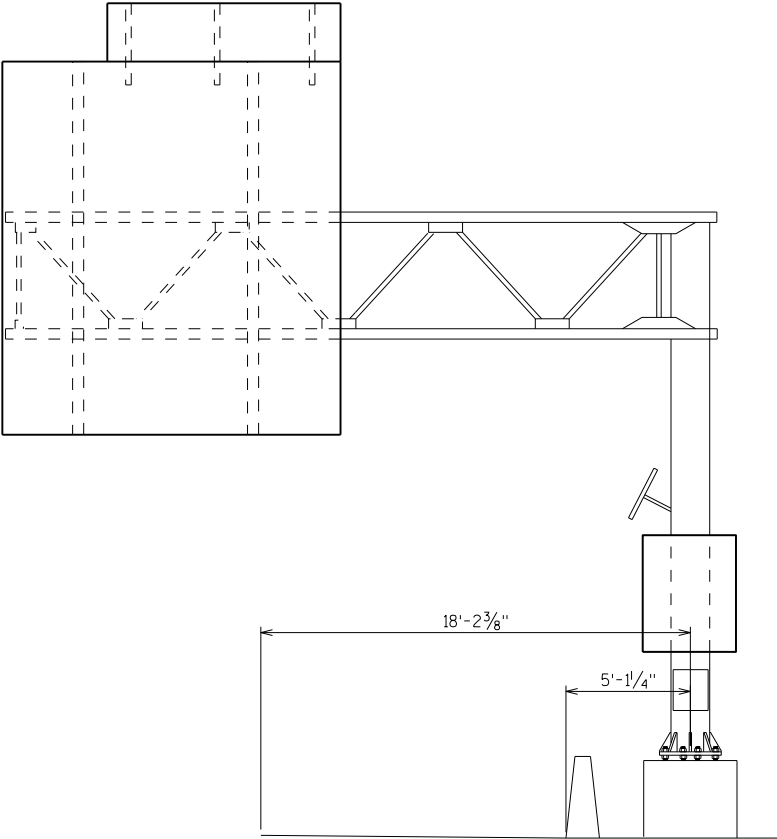
LOOKING NORTH

LOOKING WEST

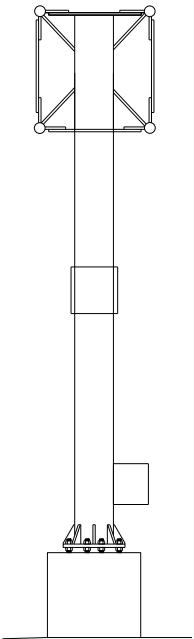
LOOKING SOUTH

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.06	SECURE/REPLACE CAP	2 EACH	4
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	7 EACH	6

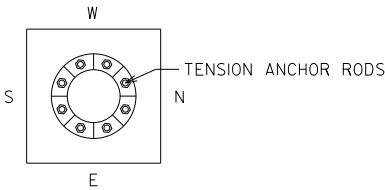
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-282			SHEET 26



LOOKING WEST



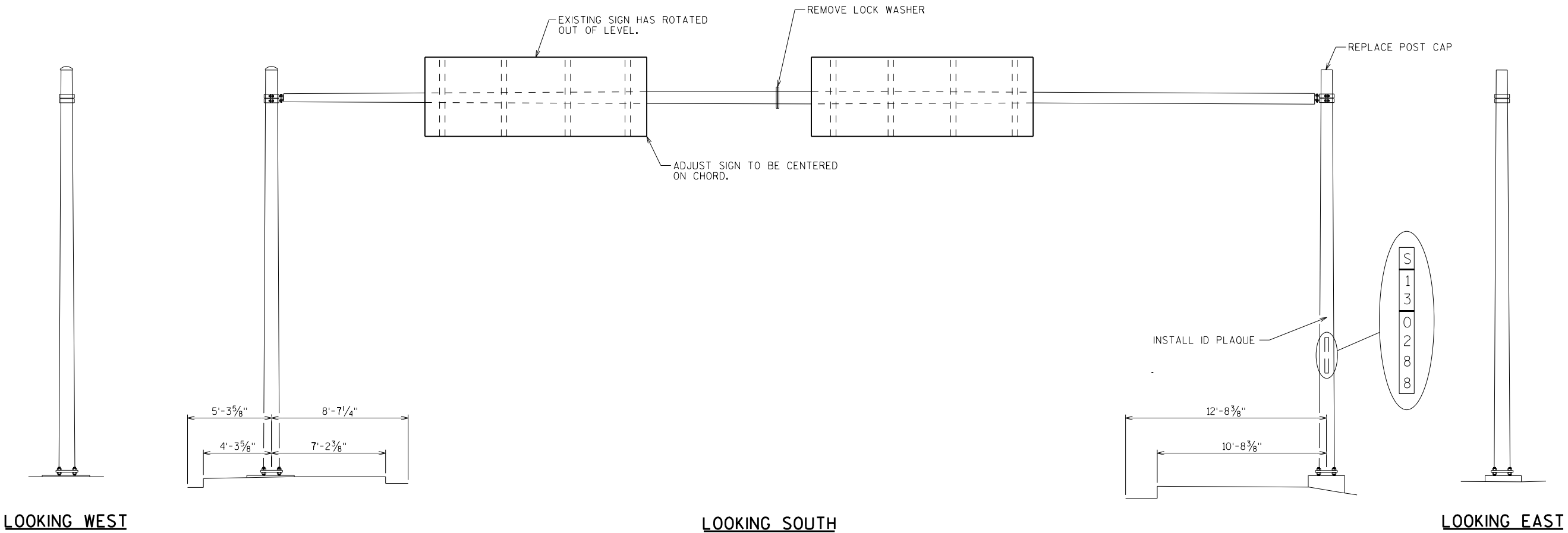
LOOKING SOUTH



FOUNDATION DETAIL

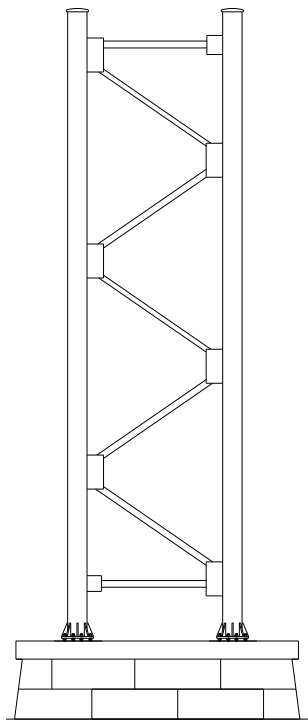
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	8 EACH	2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-283		SHEET 27	

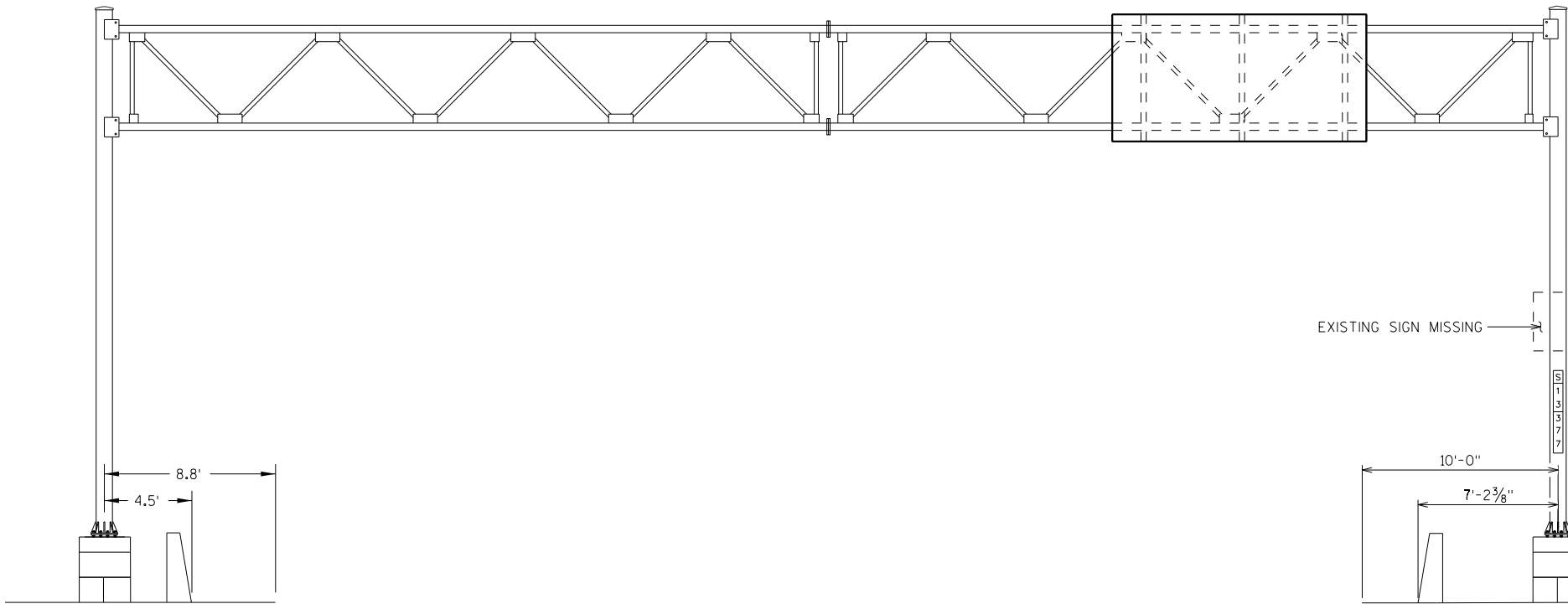


ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	1 EACH	4
SPV.0060.06	SECURE/REPLACE CAP	1 EACH	4
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6
SPV.0060.12	ADJUST VERTICAL CLEARANCE	1 EACH	6

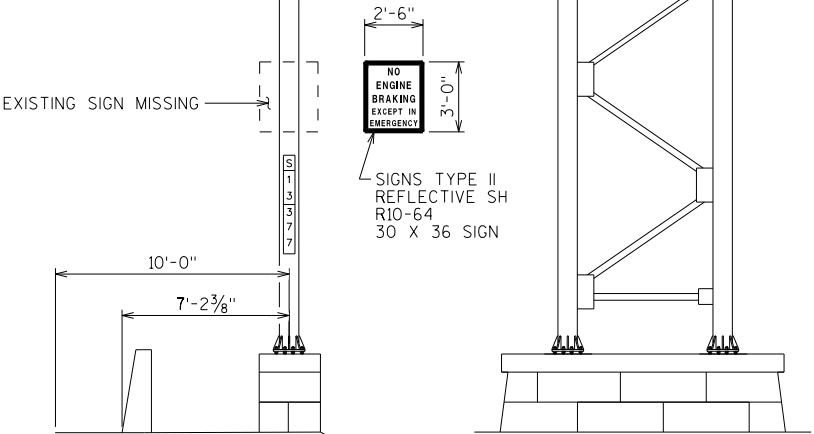
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-288		SHEET 28	



LOOKING NORTH



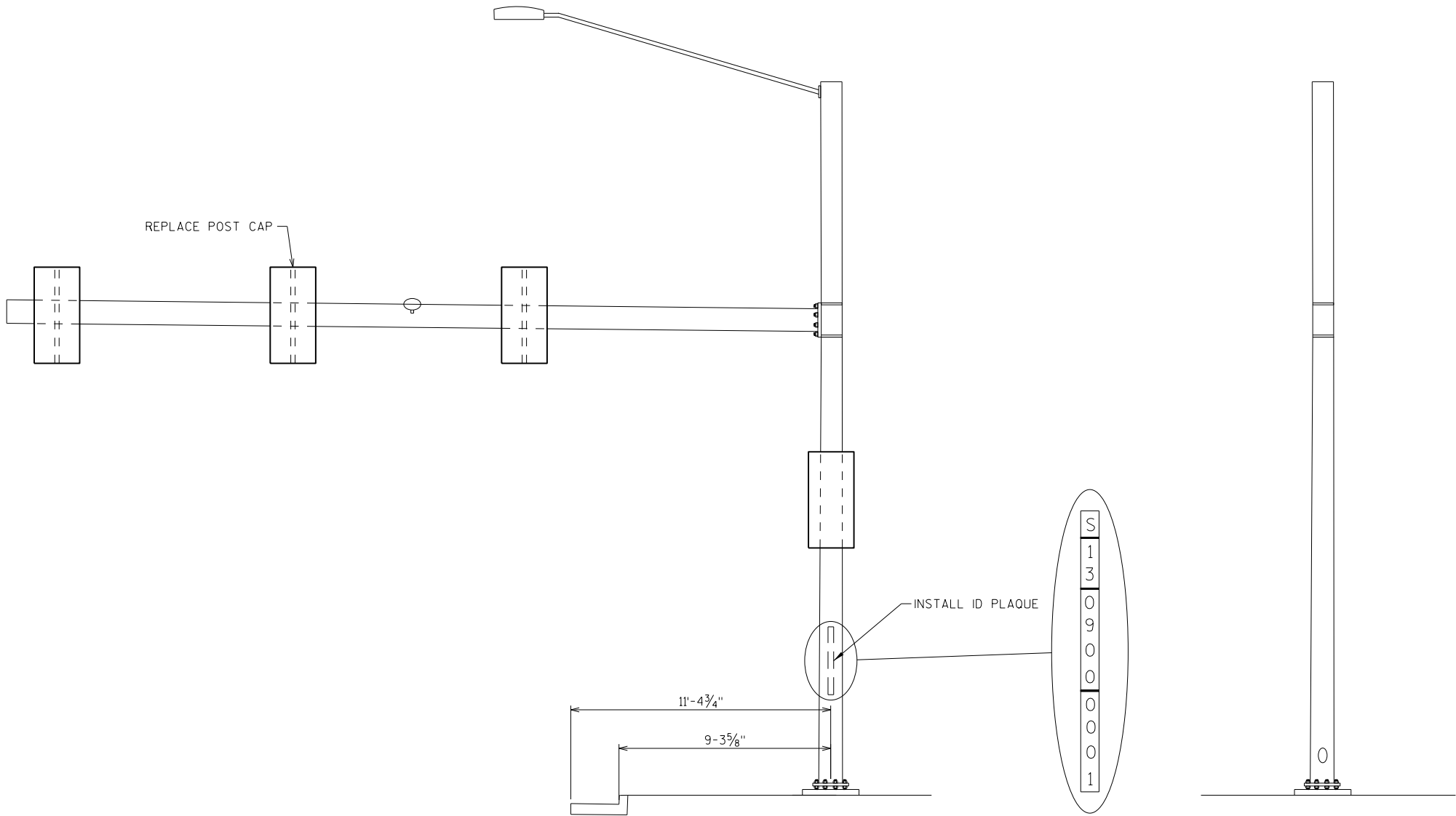
LOOKING WEST



LOOKING SOUTH

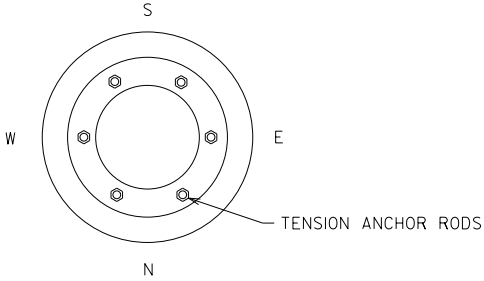
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637.2220	SIGN TYPE II REFLECTIVE SH	8 SF	

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-377		SHEET 29	



LOOKING SOUTH

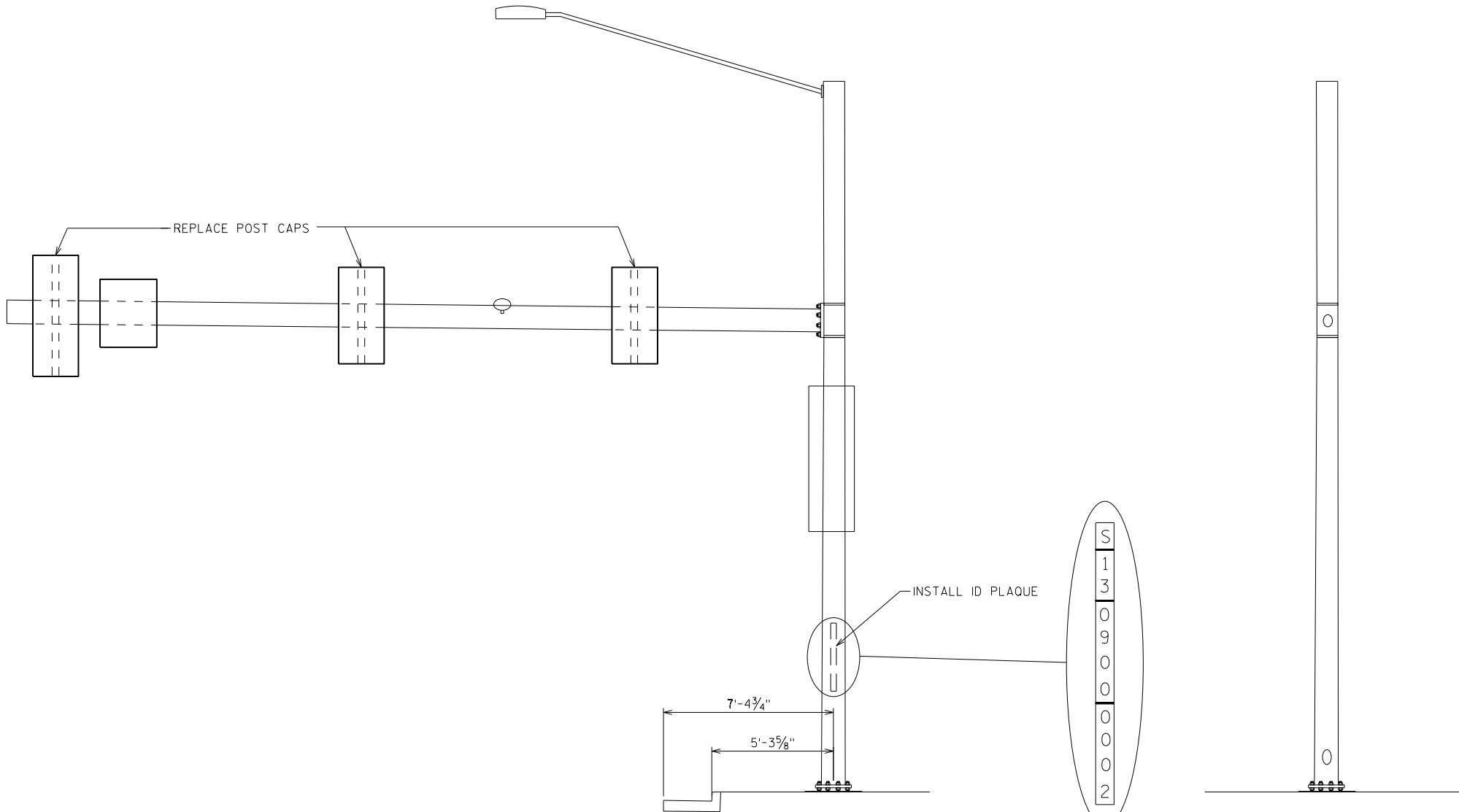
LOOKING EAST



FOUNDATION DETAIL

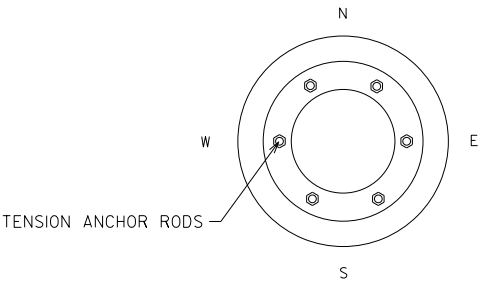
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	1 EACH	4
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-900-0001			SHEET 30



LOOKING NORTH

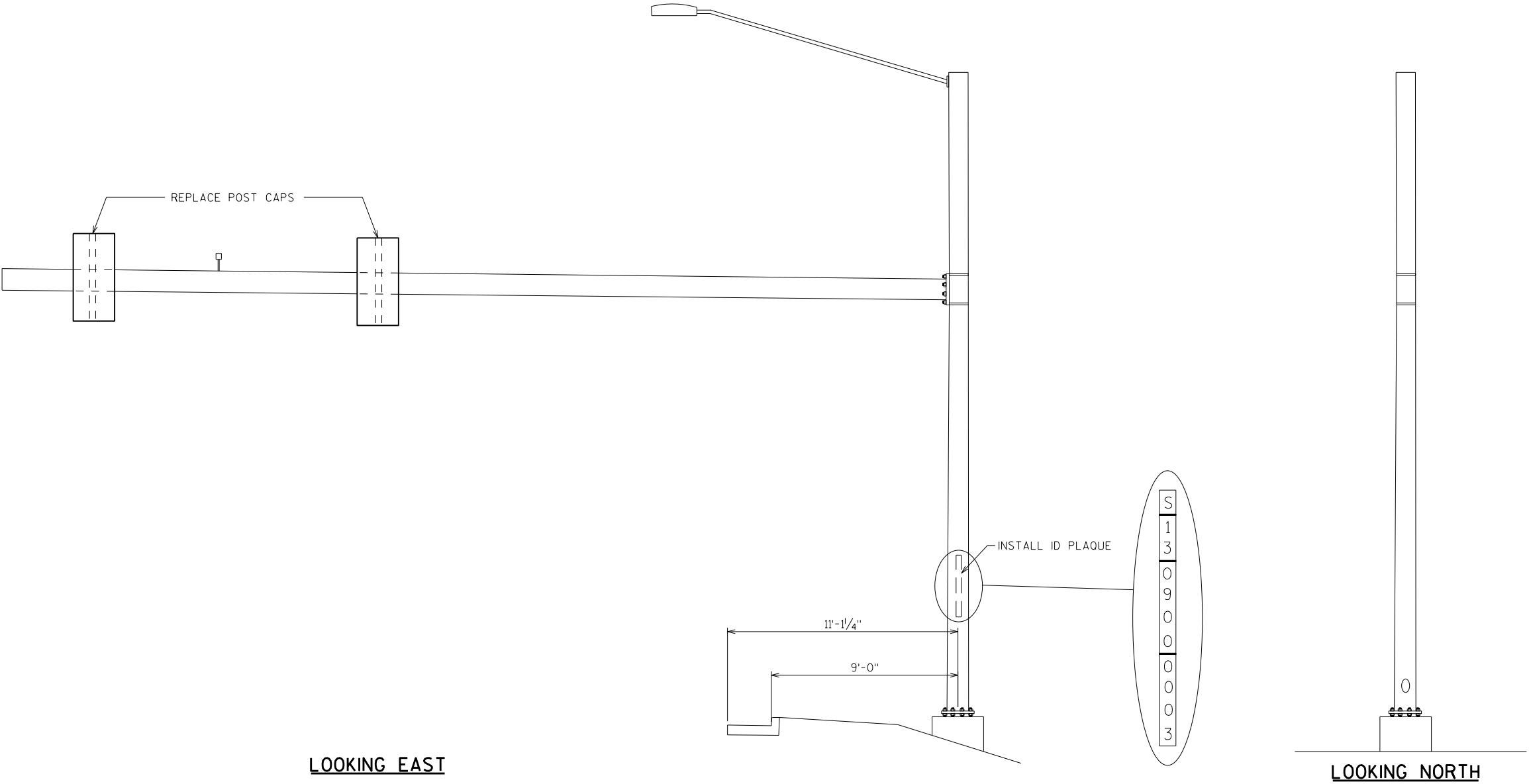
LOOKING WEST



FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	3 EACH	4
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-900-0002			SHEET 31



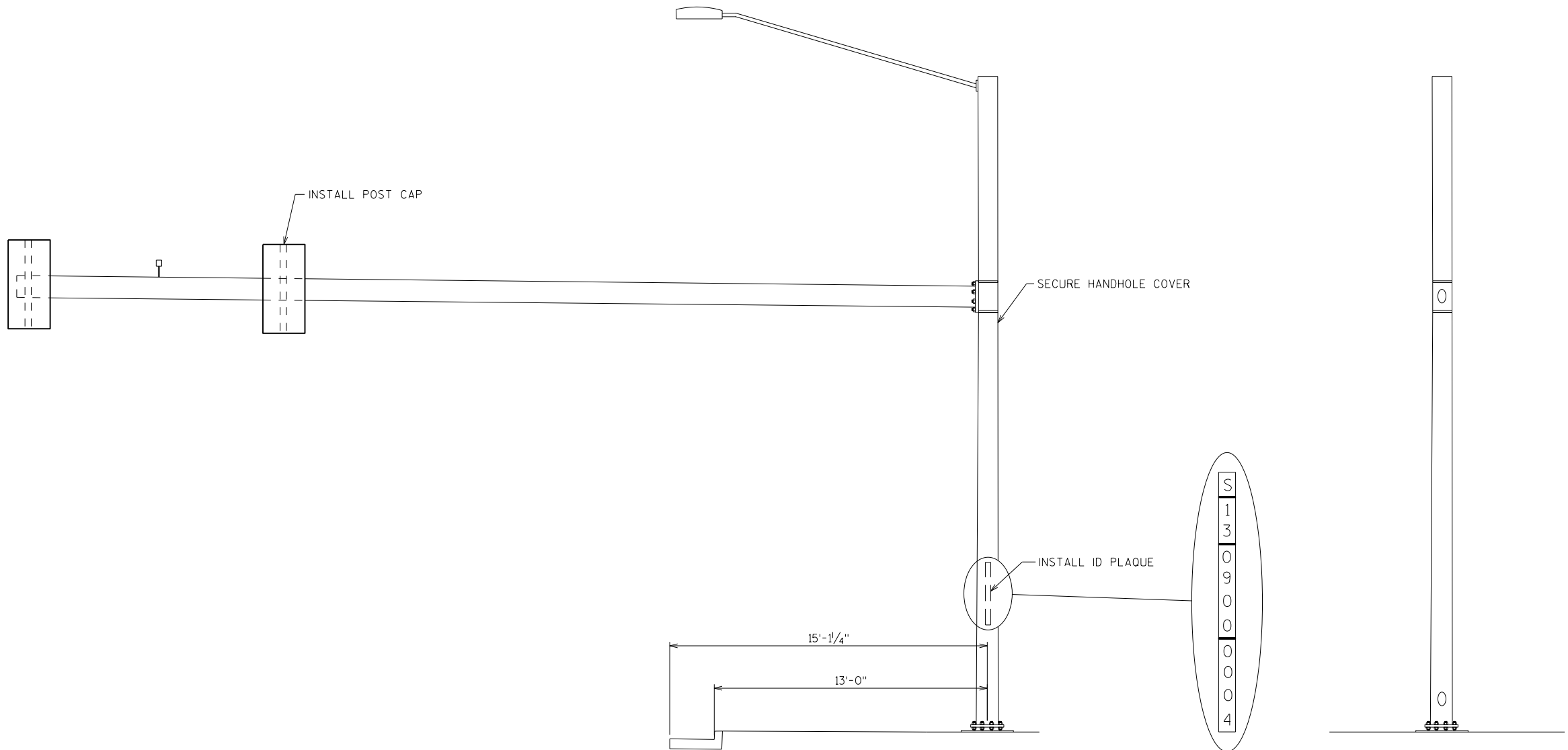
LOOKING EAST

LOOKING NORTH

FOUNDATION DETAIL

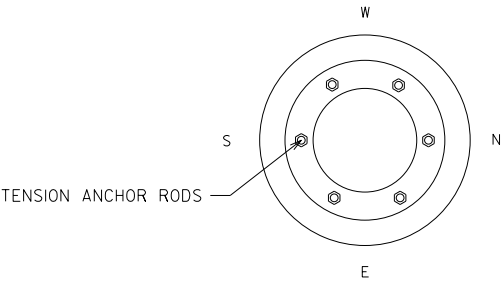
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SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	2 EACH	4
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-900-0003			SHEET 32



LOOKING WEST

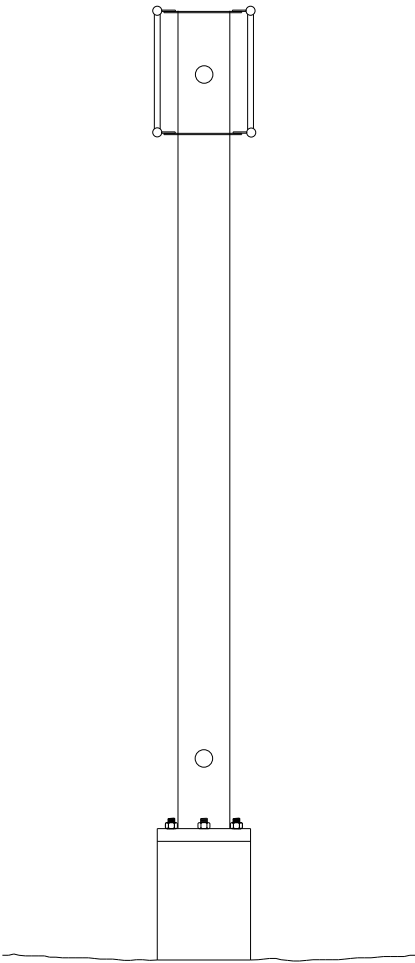
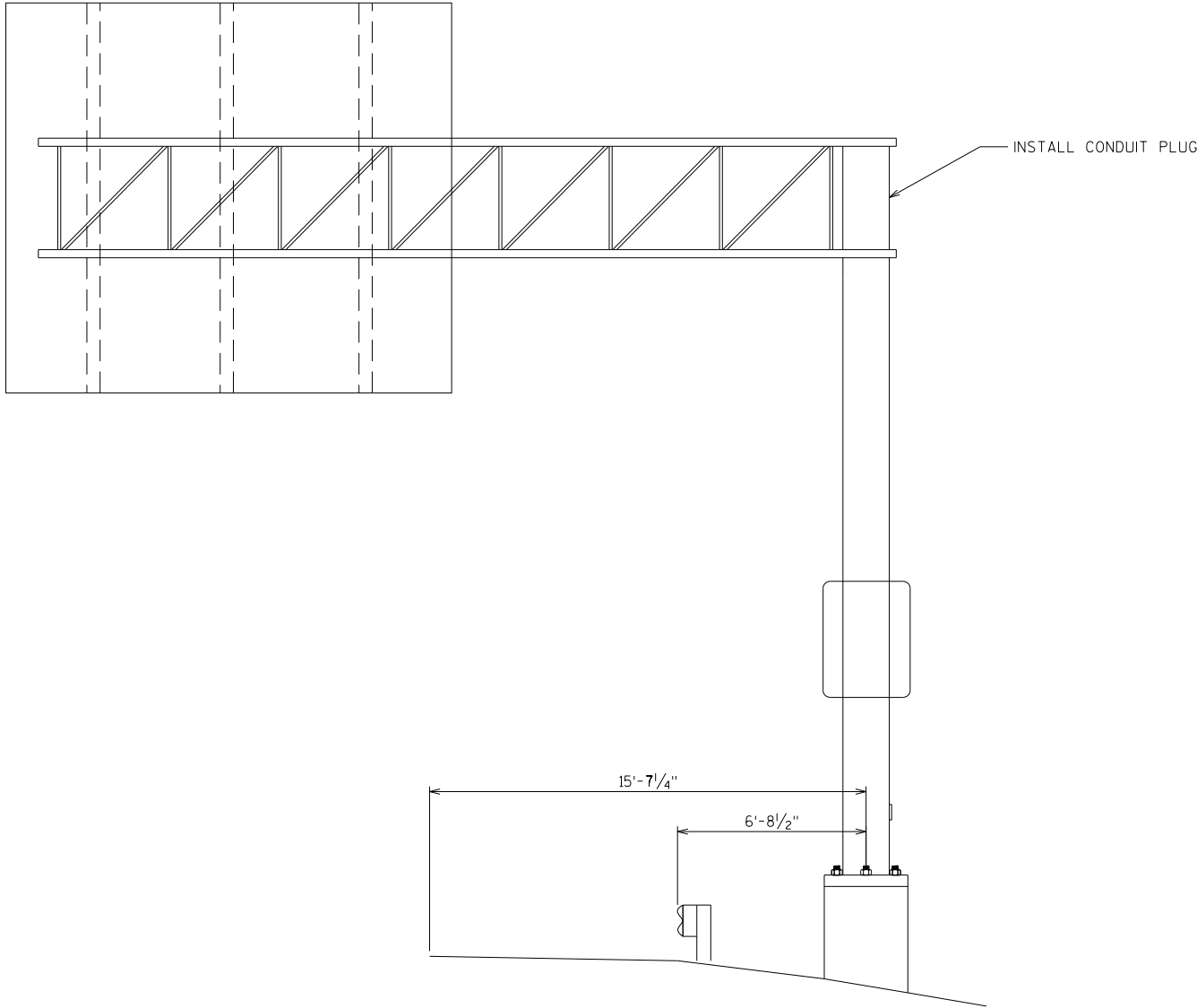
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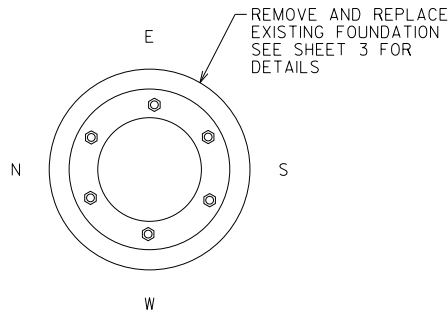
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	1 EACH	4
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6
SPV.0060.16	SECURE/REPLACE HANDHOLE COVER	1 EACH	8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-13-900-0004			SHEET 33



LOOKING NORTH

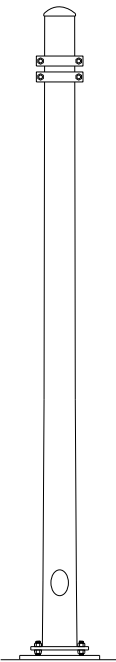


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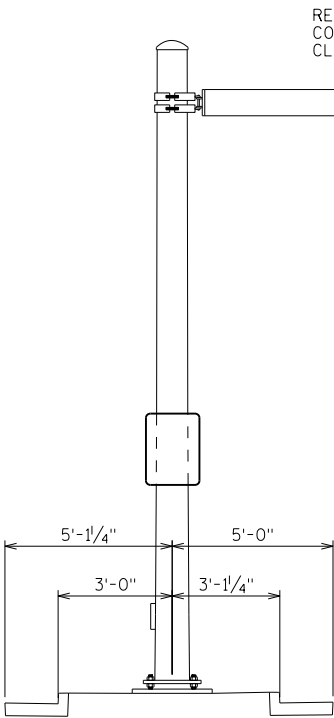
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.03	REPLACE FOUNDATION	1 EACH	3
SPV.0060.15	INSTALL CONDUIT PLUG	1 EACH	8

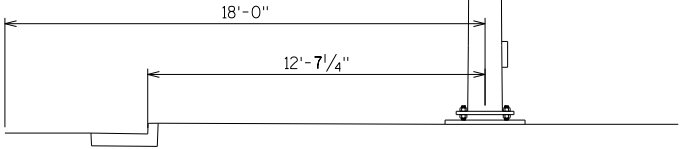
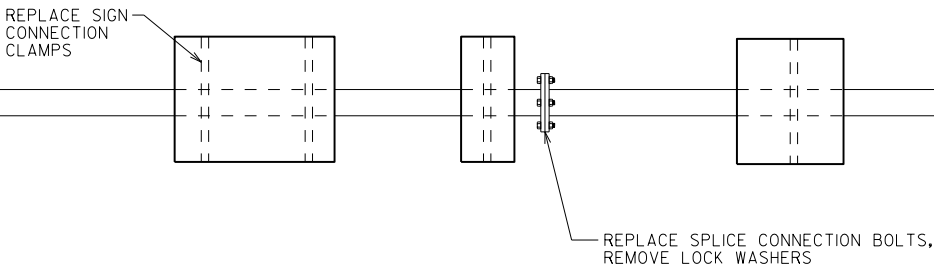
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-23-0002		SHEET 34	



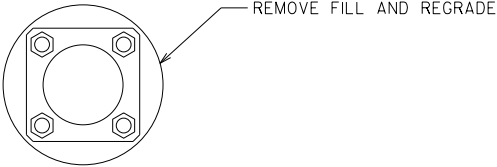
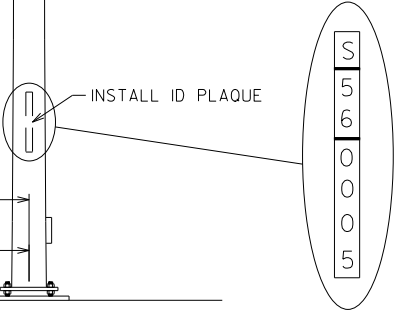
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LOOKING WEST



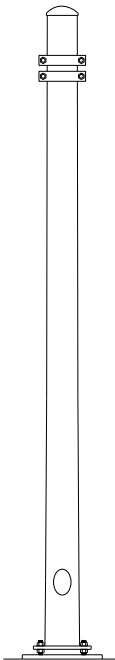
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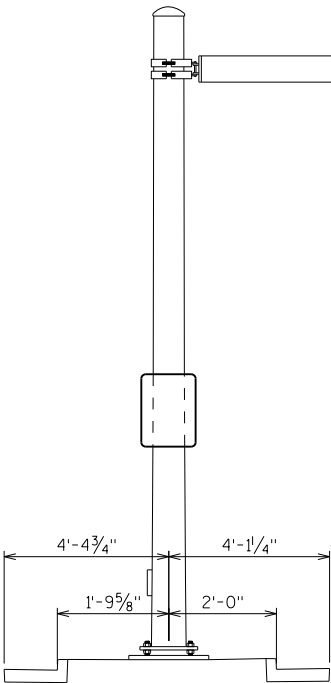
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ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.02	REMOVE DEBRIS AND REGRADE	1 EACH	2
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	6 EACH	4
SPV.0060.08	REPLACE SIGN CONNECTION CLAMP	2 EACH	6
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-005		SHEET 35	



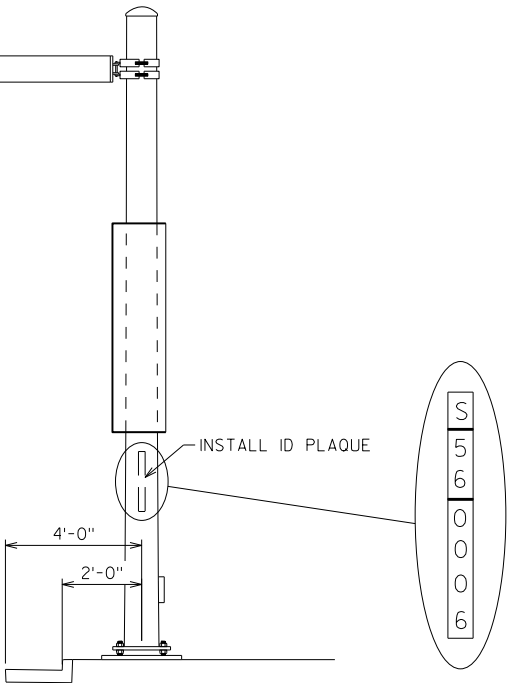
LOOKING SOUTH



LOOKING EAST

REPLACE SIGN
CONNECTION
CLAMP

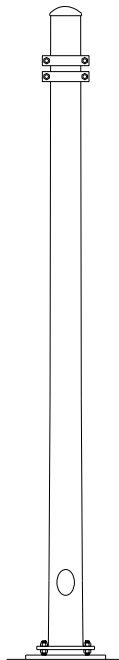
REPLACE SPLICE CONNECTION BOLTS,
REMOVE LOCK WASHERS



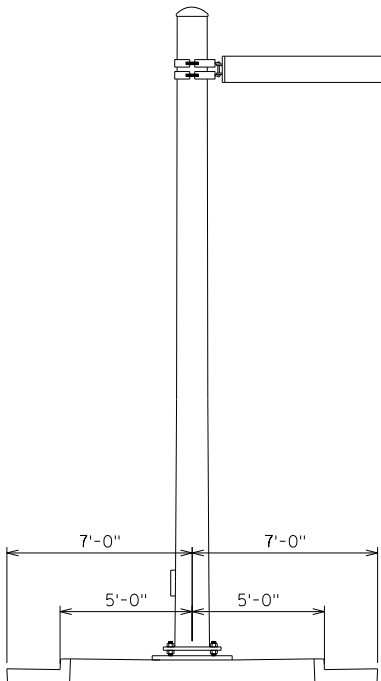
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ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	6 EACH	4
SPV.0060.08	REPLACE SIGN CONNCETION CLAMP	1 EACH	6
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-006		SHEET 36	



LOOKING EAST



LOOKING NORTH

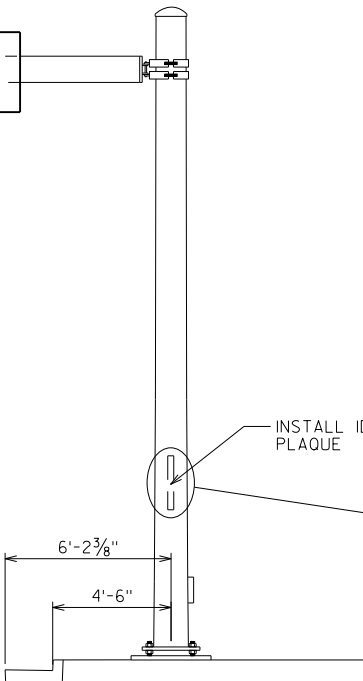
REPLACE THREE OF THE SIGN CONNECTION CLAMPS WERE CRACKED ON THE LEFT POST OF THE MIDDLE RIGHT SIGN.

REPLACE THE TOP RIGHT SIGN CONNECTION CLAMP ON THE MIDDLE RIGHT SIGN

REPLACE THE SECOND FROM THE TOP CONNECTION CLAMP WAS CRACKED ON THE RIGHT POST OF THE MIDDLE RIGHT SIGN

REPLACE THE TOP SIGN CONNECTION CLAMP WAS CRACKED ON THE RIGHT SIGN

REPLACE SPLICE CONNECTION BOLTS, REMOVE LOCK WASHERS



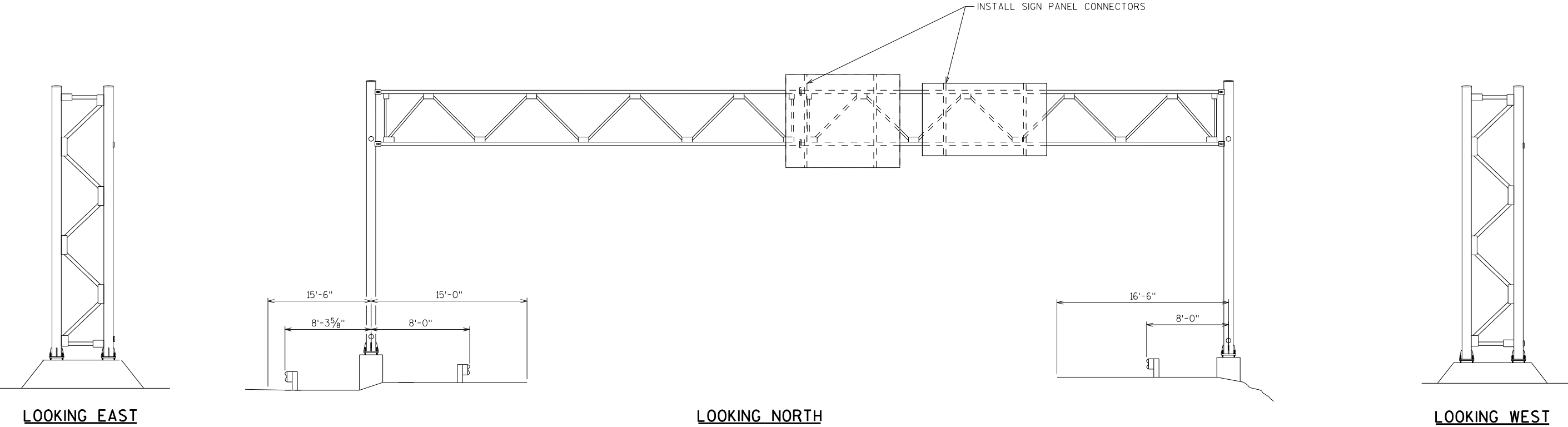
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INSTALL ID PLAQUE



ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	6 EACH	4
SPV.0060.08	REPLACE SIGN CONNECTION CLAMP	6 EACH	6
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-007		SHEET 37	

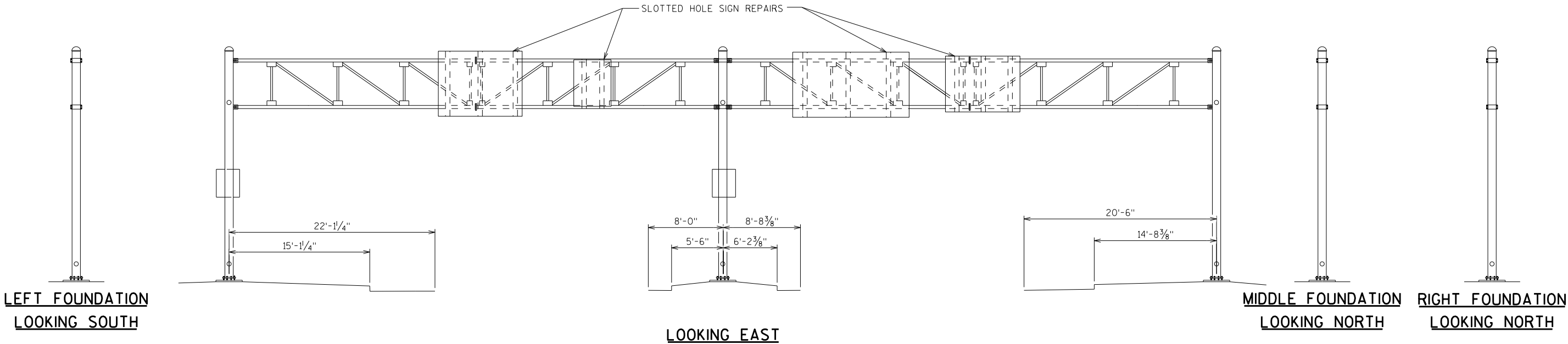


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ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.11	INSTALL SIGN PANEL CONNECTOR	30 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-008		SHEET 38	

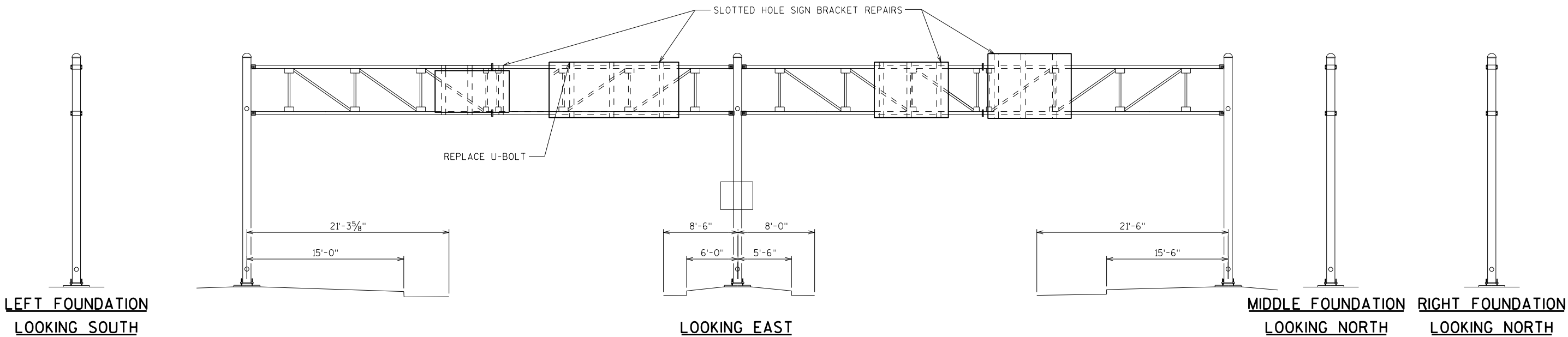


8

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ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.07	SLOTTED HOLE REPAIR ON SIGN SUPPORT BRACKET	11 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-015		SHEET 39	

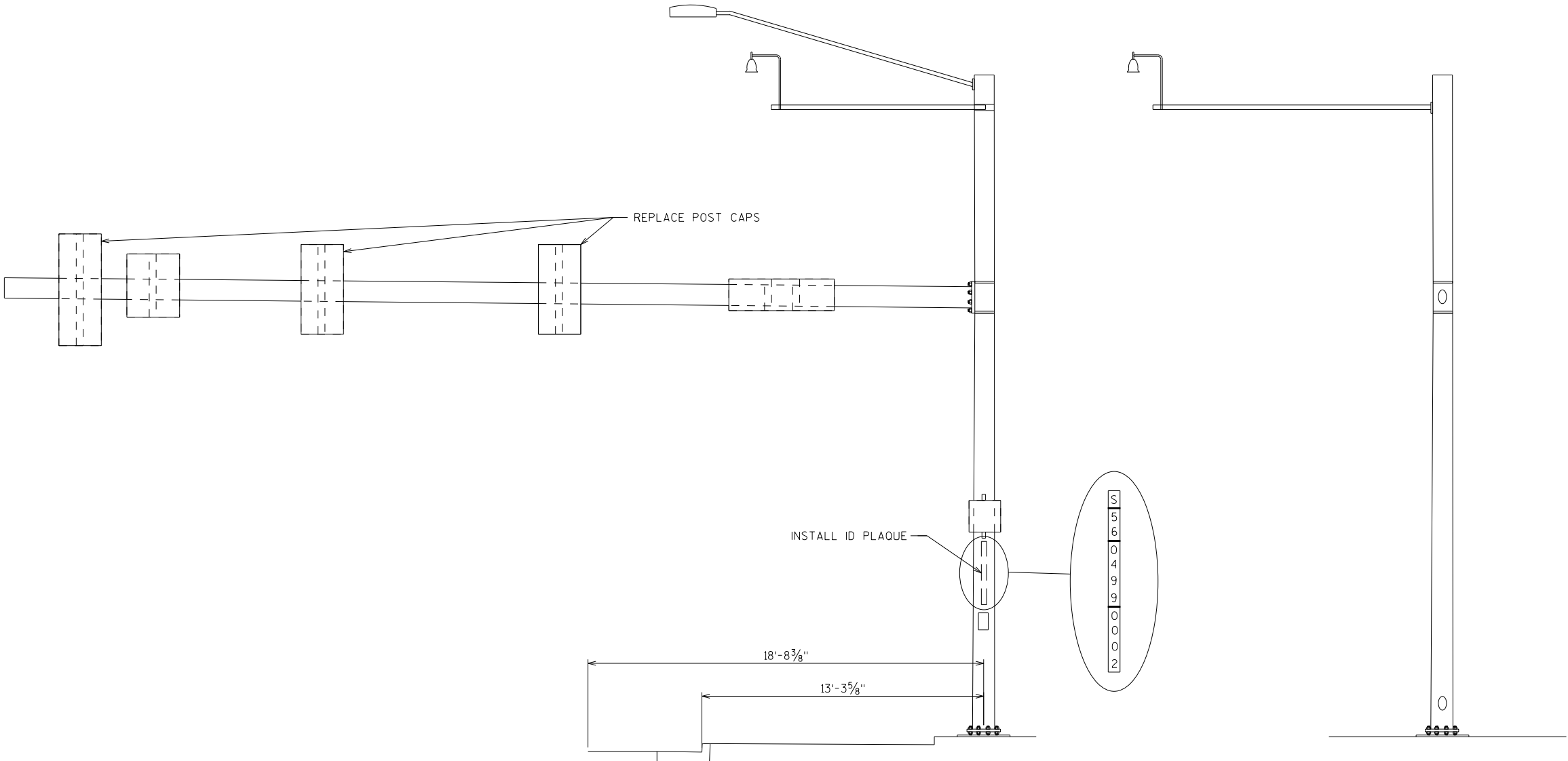


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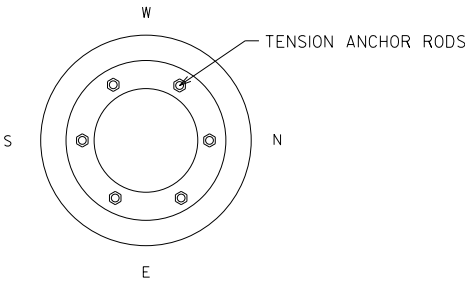
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SPV.0060.07	SLOTTED HOLE REPAIR ON SIGN SUPPORT BRACKET	12 EACH	6
SPV.0060.09	REPLACE U-BOLT	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-17			SHEET 40



LOOKING WEST

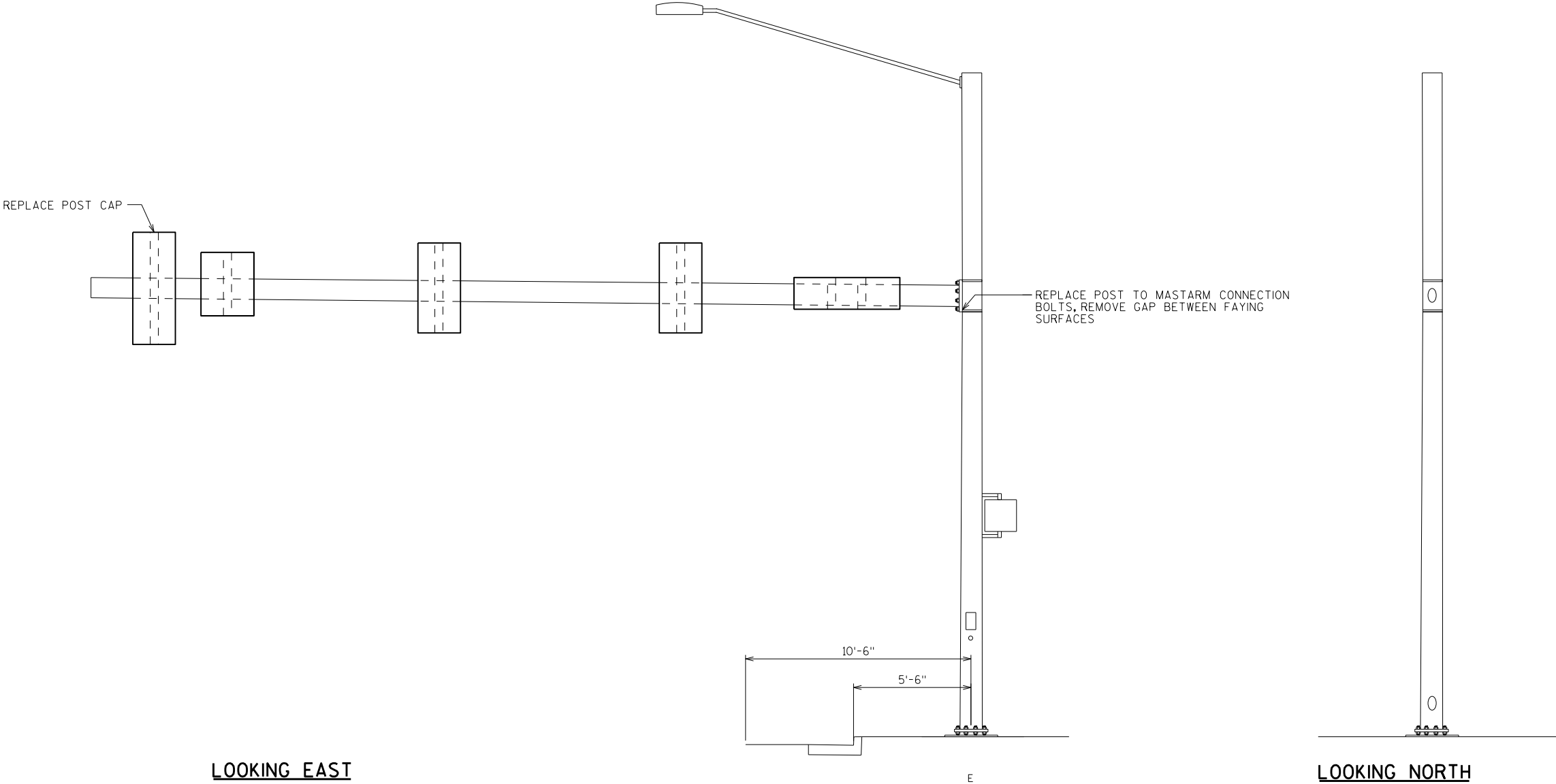
LOOKING SOUTH



FOUNDATION DETAIL

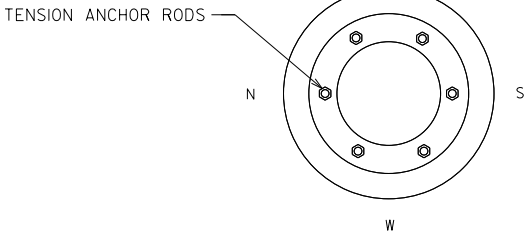
ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	3 EACH	4
SPV.0060.10	INSTALL ID PLAQUE	1 EACH	6

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-499-0002			SHEET 41



LOOKING EAST

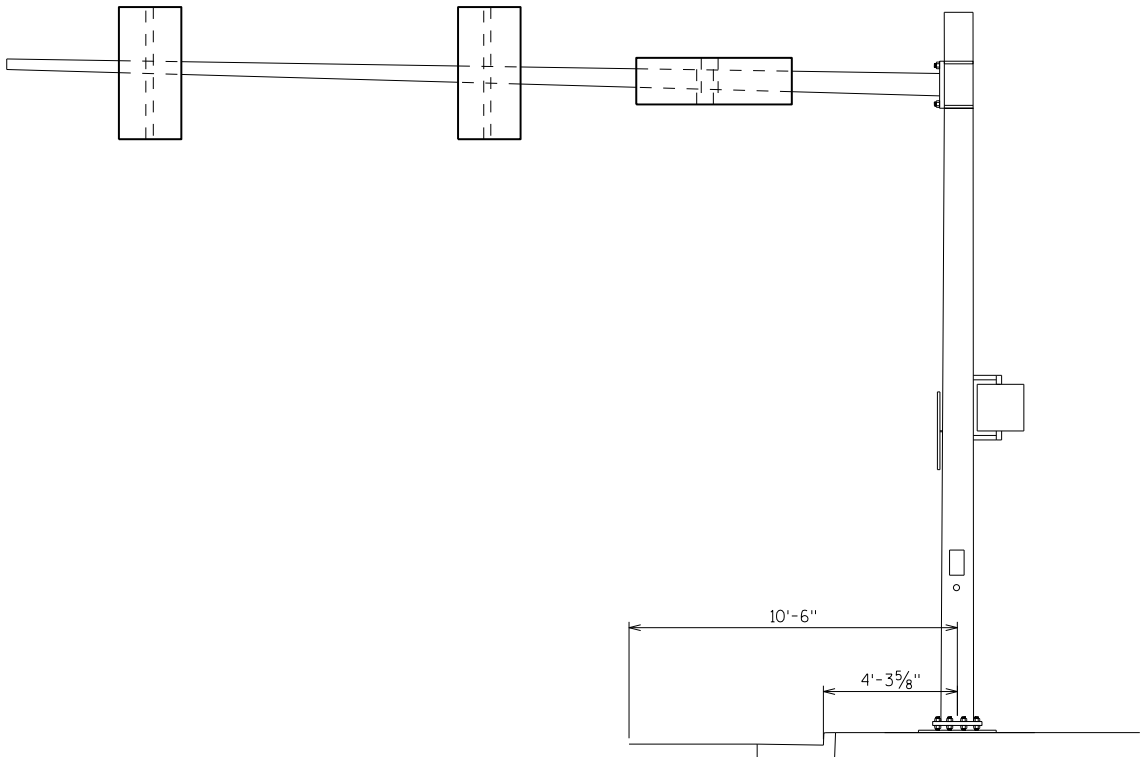
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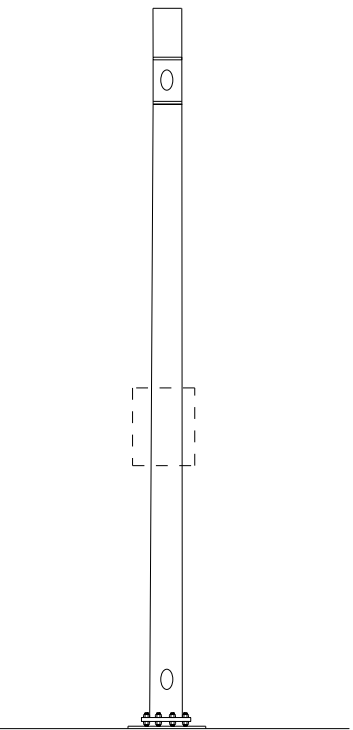
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.05	TENSION STRUCTURAL CONNECTION BOLT (FRICTION)	8 EACH	4
SPV.0060.06	SECURE/REPLACE CAP	1 EACH	4

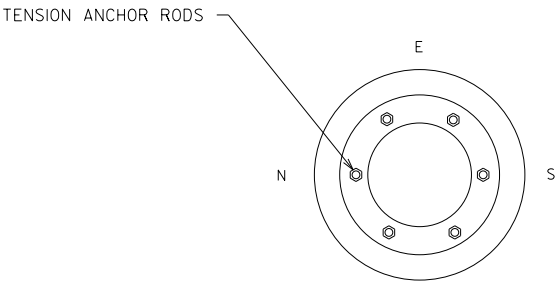
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STRUCTURE SW SIGN REPAIRS			
DRAWN BY	DDS	PLANS CK'D.	
S-56-499-0006			SHEET 42



LOOKING EAST



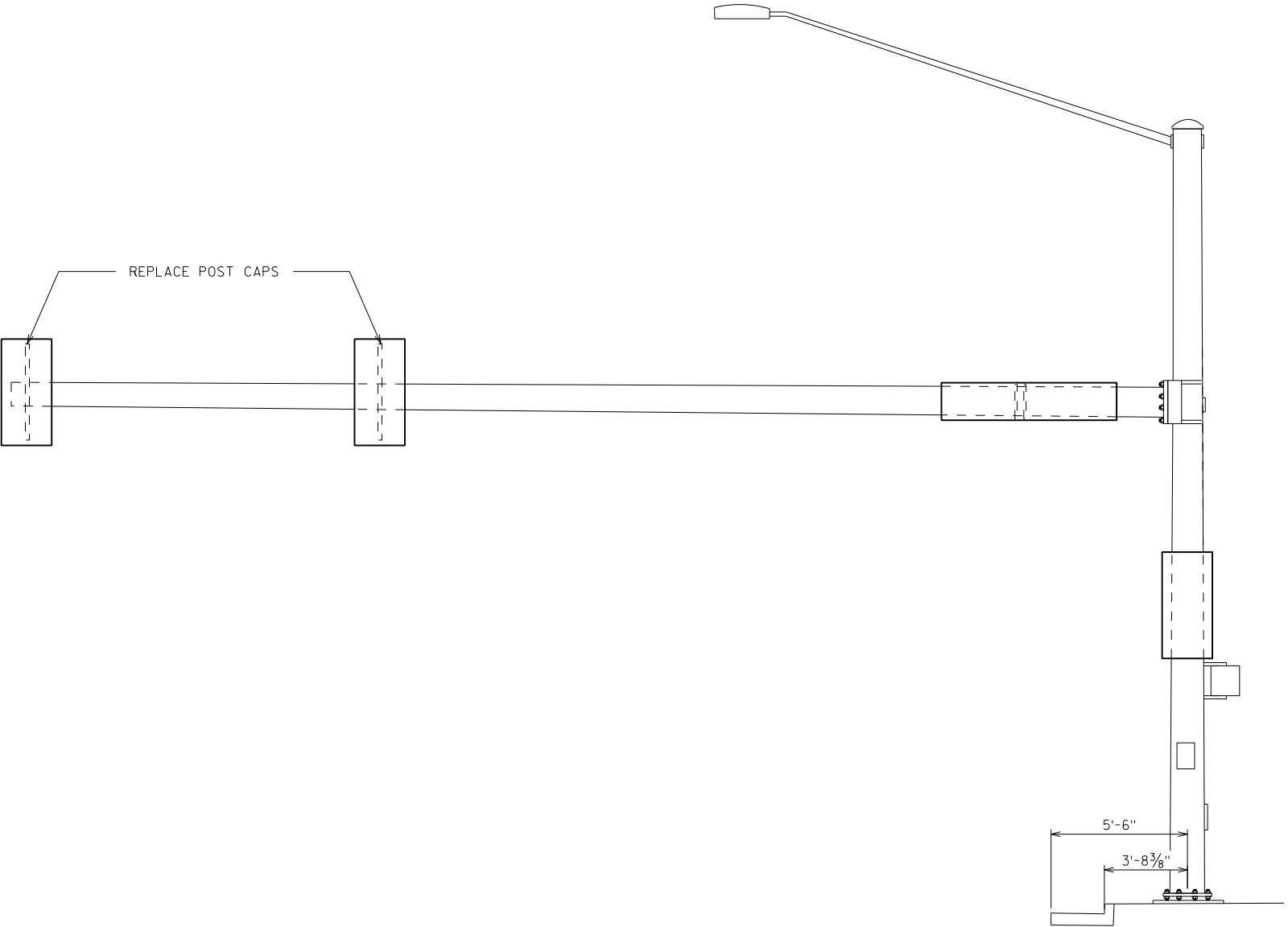
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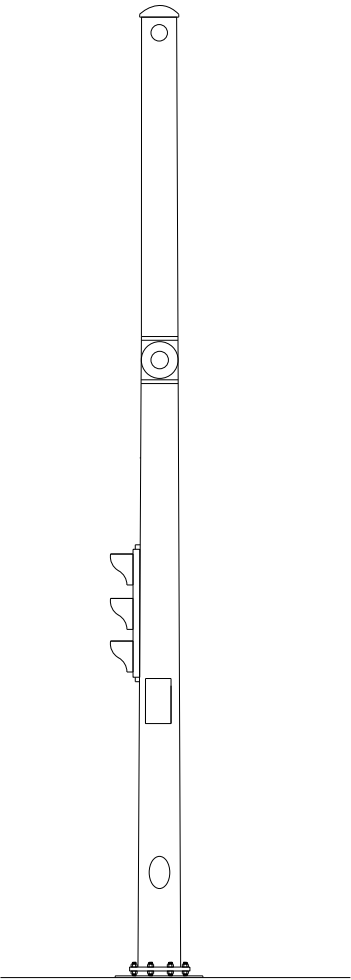
FOUNDATION DETAIL

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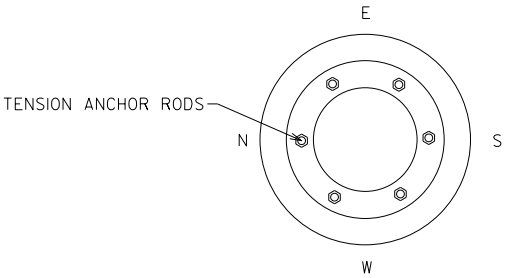
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY		DDS	PLANS CK'D.
S-56-1042-0006			SHEET 43



LOOKING EAST



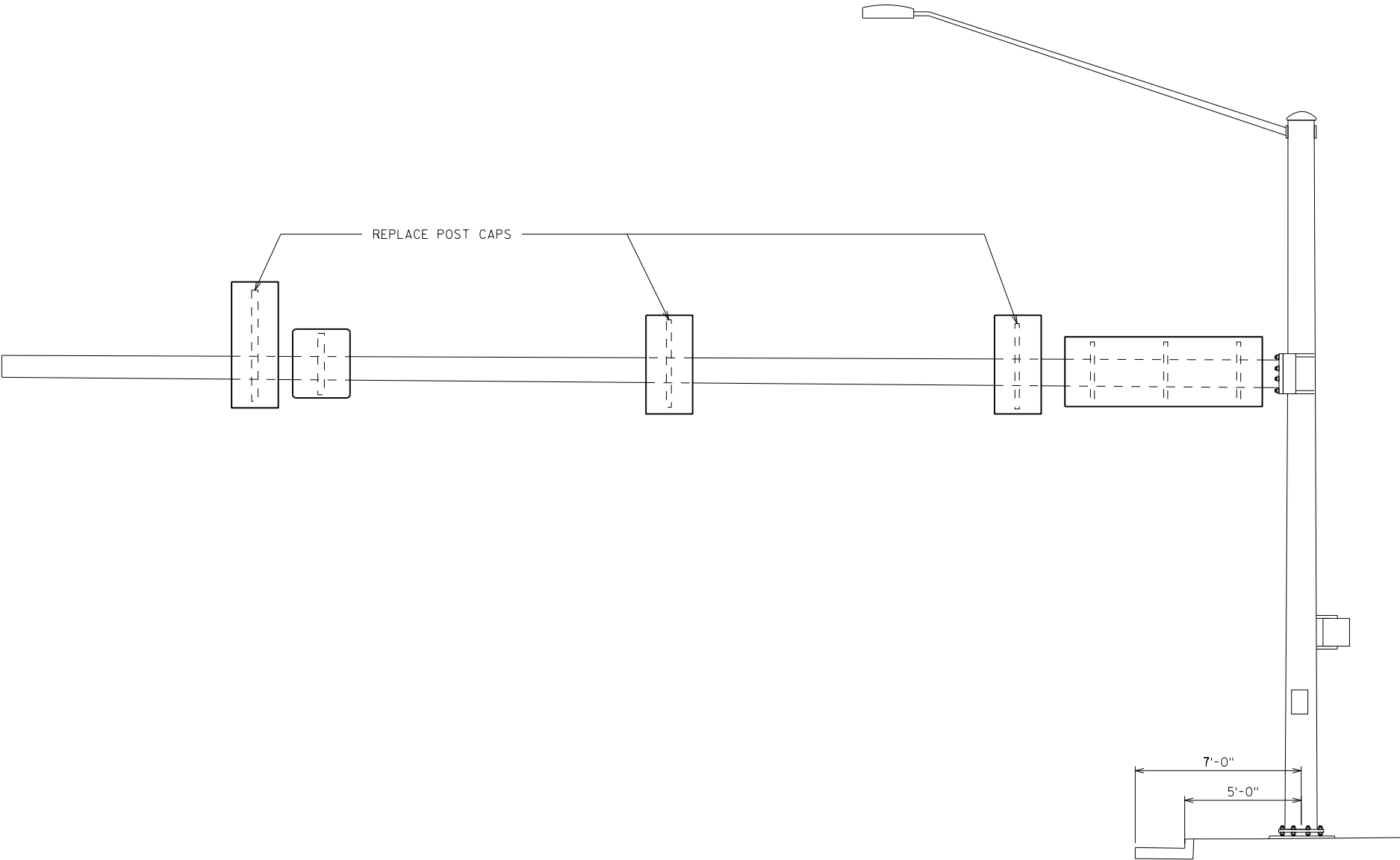
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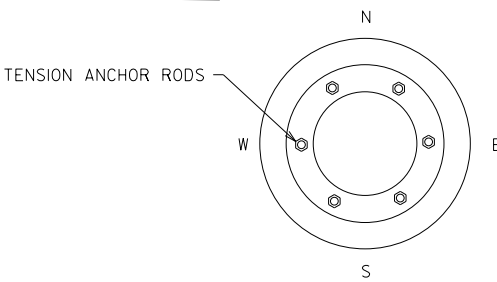
FOUNDATION DETAIL

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	2 EACH	4

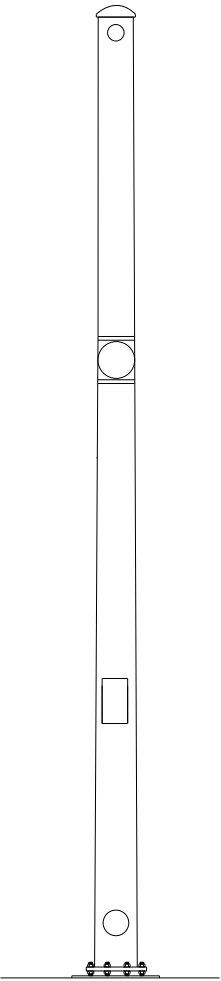
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY	DDS	PLANS CK'D.	
S-56-1057-0004			SHEET 44



LOOKING NORTH



FOUNDATION DETAIL



LOOKING WEST

ITEM NUMBER	BID ITEMS	QUANTITY	REPAIR DETAIL SHEET NO.
SPV.0060.01	TENSION ANCHOR ROD	6 EACH	2
SPV.0060.06	SECURE/REPLACE CAP	3 EACH	4

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE SW SIGN REPAIRS			
DRAWN BY	DDS	PLANS CK'D.	
S-56-1057-0006			SHEET 45

Special Provisions

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SPECIAL PROVISIONS

1. General.

Perform the work under this construction contract for Project 1009-30-16, Sign Bridge Replacement, Regionwide Various Routes SW, Var Hwy, Dane County, Wisconsin as the plans show and execute the work as specified in the State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, 2019 Edition, as published by the department, and these special provisions.

If all or a portion of the plans and special provisions are developed in the SI metric system and the schedule of prices is developed in the US standard measure system, the department will pay for the work as bid in the US standard system.

100-005 (20181119)

2. Scope of Work.

The work under this contract shall consist of repairing existing sign bridges on various highways in various counties and all incidental items necessary to complete the work as shown on the plans and included in the proposal and contract.

104-005 (20090901)

3. Prosecution and Progress.

Begin work within ten calendar days after the engineer issues a written notice to do so.

Provide the time frame for construction of the project within the 2019 construction season to the engineer in writing within a month after executing the contract but at least 14 calendar days before the preconstruction conference. Assure that the time frame is consistent with the contract completion time. Upon approval, the engineer will issue the notice to proceed within ten calendar days before the beginning of the approved time frame.

To revise the time frame, submit a written request to the engineer at least two weeks before the beginning of the intended time frame. The engineer will approve or deny that request based on the conditions cited in the request and its effect on the department's scheduled resources.

Begin work by Monday, September 16th, 2019.

4. Traffic.

Shoulder closures are preferable to lane closures whenever possible.

At no time, perform any repairs or lift or erect signs over live traffic lanes. All repair work is to be performed utilizing traffic control under the area currently being repaired.

Do not perform any work requiring lane or ramp during the peak traffic periods. All lane and shoulder closures shall be entered in the Wisconsin Lane Closure System (LCS) prior to any work. See Wisconsin Lane Closure System Advance Notification section for LCS entry instructions.

Traffic Control & Work Restrictions

A detailed table of structure by structure work restrictions and traffic control inspections is included in the plans.

Traffic Control: S-23-0002

US Highway 11 will be closed during the removal and installation of traffic signal monotube, S-23-0002. Utilize local law enforcement to stop traffic and temporarily close all traffic under the structure for a maximum of 20 minutes during the monotube removal and reinstallation.

Freeway Work Restrictions

All lanes of the freeway shall be entirely clear and open to traffic at all times except for approved Night Time Hours or Off-Peak Hour closures as approved by the engineer. Dual lane operation is permitted during Night Time Hours and Off-Peak Hours pending approval of the engineer. Single lane operation is only permitted during Night Time Hours pending approval of the engineer. Lane closures shall be in

accordance to the standard detail drawings (SDD) and have the approval of the engineer and the Region Work Zone Engineer.

System to system ramp closures shall only be allowed during nighttime work hours.

No two consecutive on or off ramps shall be closed at the same time.

All lanes of on, off, and directional interchange ramps shall be completely free of traffic control devices during restricted hours. During off peak hours, ramps may be reduced to one 12-foot lane. Ramps may be closed during off peak hours with the prior approval of the engineer and only for the minimum time required to complete the work. It is required to post the ramps with signs as required above.

During periods of no construction, the full width of all freeway mainline and ramp pavements shall be open to traffic.

To the extent possible, confine work operations to an off highway or shoulder location without encroachment on traffic lanes and in such a manner as to interfere as little as possible with freeway traffic.

Coordinate the work schedule in the northeast region with special events such as Green Bay Packer Home Games and other Lambeau Field events with anticipated attendance of 30,000+. No work is allowed within areas affected by special events. No lane closures allowed on any of the roadways in Brown County starting 5 hours prior to the event start time until 8 hours of the start time of the event.

Do not use flag persons to direct, control or stop freeway traffic.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as shown on the plans. Submit this plan ten (10) days prior to the preconstruction conference.

Portable Changeable Message Signs – Message Prior Approval

After coordinating with Department construction field staff, notify the appropriate region Traffic Section 3 business days prior to deploying or changing a message on a PCMS to obtain approval of the proposed message. The Region Traffic Unit will review the proposed message and either approve the message or make necessary changes. Contact SW Region Traffic as listed in the plans for prior message approval.

Structures that will need PCMS installed 3 business days prior to the lane closures are as follows: S-13-0060, S-13-0064, S-13-0071, S-13-0258, S-13-0279, S-13-0280, S-13-0282, and S-56-0008.

Wisconsin Lane Closure System Advance Notification

Provide the following advance notification to the engineer for incorporation into the Wisconsin Lane Closure System (LCS).

TABLE 108-1 CLOSURE TYPE AND REQUIRED MINIMUM ADVANCE NOTIFICATION

Closure type with height, weight, or width restrictions (available width, all lanes in one direction < 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	7 calendar days
Full roadway closures	7 calendar days
Ramp closures	7 calendar days
Detours	7 calendar days
Closure type without height, weight, or width restrictions (available width, all lanes in one direction ≥ 16')	MINIMUM NOTIFICATION
Lane and shoulder closures	3 business days
Ramp closures	3 business days
Modifying all closure types	3 business days

Discuss LCS completion dates and provide changes in the schedule to the engineer at weekly project meetings in order to manage closures nearing their completion date.

5. Holiday Work Restrictions.

Do not perform work on, nor haul materials of any kind along or across any portion of the highway carrying mainline traffic, and entirely clear the traveled way and shoulders of such portions of the highway of equipment, barricades, signs, lights, and any other material that might impede the free flow of traffic during the following holiday periods:

- From noon Friday, May 25th, 2019 to 6:00 AM Tuesday, May 28th, 2019 Memorial Day;
- From noon Wednesday, July 3rd, 2019 to 6:00 AM Monday, July 8th, 2019 Independence Day;
- From noon Friday, August 30th, 2019 to 6:00 AM Tuesday, September 3rd, 2019 Labor Day.

stp-107-005 (20181119)

6. Railroad Insurance and Coordination - Wisconsin and Southern Railroad Company

A Description

Comply with standard spec 107.17 for all work affecting Wisconsin and Southern Railroad Company property and any existing tracks.

A.1 Railroad Insurance Requirements

In addition to standard spec 107.26, provide railroad protective liability insurance coverage as specified in standard spec 107.17.3. Insurance is filed in the name of Wisconsin and Southern Railroad Company.

Notify evidence of the required coverage, and duration to Amanda Haggerty, Office Administrator; 1890 E Johnson Street, Madison, WI 53704; Telephone (608) 620-2048; E-mail: ahaggerty@watcocompanies.com.

Also send a copy to the following: Jared Kinziger, NE Region Railroad Coordinator; 944 Vanderperren Way, Green Bay, WI 54304; Telephone (920) 492-7713; E-mail: jared.kinziger@dot.wi.gov.

Include the following information on the insurance document:

- Project ID: 1009-30-16
- Work Performed: Traffic control

#	Route Name	City/County	Crossing ID	RR Subdivision	RR Milepost
1	USH 12/18 Beltline near John Nolen Dr.	Madison/Dane	391711W	Madison	136.66
2	USH 12/18 Beltline near Park St.	Madison/Dane	177871Y	Evansville	135.57

A.2 Train Operation

#	Passenger Train Volume	Passenger Train Speed	Freight Train Volume	Freight Train Speed	Frequency	Switch Train Comment*
1	0	0	4	40	Daily	No switch trains
2	0	0	1	10	Monthly	No switch trains

* Switch trains are in addition to freight and passenger trains.

A.3 Names and Addresses of Railroad Representatives for Consultation and Coordination

Construction Contact

Roger Schaalma, Superintendent of Maintenance of Way, Wisconsin and Southern Railroad Co.; 1890 East Johnson Street, Madison, WI 53704; Telephone (608) 620-2044; E-mail rschaalma@watcocompanies.com for consultation on railroad requirements during construction.

Amend standard spec 108.4 to include the railroad in the distribution of the initial bar chart, and monthly schedule updates. The bar chart shall specifically show work involving coordination with the railroad.

Flagging Contact

See Construction Contact. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

Cable Locate Contact

In addition to contacting Diggers Hotline, contact Amanda Haggerty, Office Administrator; Telephone (608) 620-2048; E-mail ahaggerty@watcocompanies.com at least five working days before the locate is needed. Reference the Crossing ID, Wisconsin Milepost and Subdivision found in A.1.

WSOR will only locate railroad owned facilities located in the railroad right-of-way. The railroad does not locate any other utilities.

A.4 Work by Railroad

The railroad will perform the work described in this section, except for work described in other special provisions, and will be accomplished without cost to the contractor. None

A.5 Temporary Grade Crossing

If a temporary grade crossing is desired, submit a written request to the railroad representative named in A.3 at least 40 days prior to the time needed. Approval is subject to the discretion of the railroad. The department has made no arrangements for a temporary grade crossing.

stp-107-026 (20170615)

7. Utilities.

This contract does not come under the provision of Administrative Rule Trans 220.

107-065 (20080501)

Due to the nature of this work, utility conflicts were not identified or resolved during design. Locate all utility facilities within the project limits prior to construction. Notify the engineer of any potential utility conflicts within three (3) business days prior to construction. Coordinate all utility relocations or adjustments necessary to accomplish the work of this project.

8. Other Contracts.

The following projects are expected to be constructed during the same time as this project. Coordinate lane, ramp, and roadway closures on USH 12 with Josh Koebernick (WisDOT) at least 2-weeks in advance of a closure.

Email: Joshua.koebernick@dot.wi.gov

Cell: 608-516-6542

1206-06-78 Madison – Cambridge, Seminole Highway to IH 39/90, USH 12, Dane County
5300-00-71 Sauk City-Madison, Mineral Point Rd to Whitney Way, USH 12, Dane County

9. Lane Rental Fee Assessment.

A General

The contract designates some lane closures to perform the work. The contractor will not incur a Lane Rental Fee Assessment for closing lanes during the allowable lane closure times. The contractor will incur a Lane Rental Fee Assessment for each lane closure outside of the allowable lane closure times. If a lane is obstructed at any time due to contractor operations, it is considered a closure. The purpose of lane rental is to enforce compliance of lane restrictions and discourage unnecessary closures.

The allowable lane closure times are shown in the Traffic article.

Submit the dates of the proposed lane, ramp, and roadway restrictions to the engineer as part of the progress schedule.

Coordinate lane, ramp, and roadway closures with any concurrent operations on adjacent roadways within 3 miles of the project. If other projects are in the vicinity of this project, coordinate lane closures to run concurrent with lane closures on adjacent projects when possible. When lane closures on adjacent projects extend into the limits of this project, Lane Rental Fee Assessments will only occur if the closure facilitates work under this contract.

B Lane Rental Fee Assessment

The Lane Rental Fee Assessment incurred for each lane closure, each ramp closure, and each full closure of a roadway, per direction of travel, is as follows:

- S-56-0008: \$562.50 per lane, per direction of travel, per hour broken into 15 minute increments
- S-13-0036 (see chart below)

- S-13-0037 (see chart below)
- S-13-0040 (see chart below)
- S-13-0060 (see chart below)
- S-13-0061 (see chart below)
- S-13-0064 (see chart below)
- S-13-0071 (see chart below)
- S-13-0153 (see chart below)
- S-13-0248 (see chart below)
- S-13-0258 (see chart below)
- S-13-0279 (see chart below)
- S-13-0280 (see chart below)
- S-13-0283 (see chart below)
- S-13-0377 (see chart below)

Closure Outside Allowed Time Period	15-minute Lane Rental Fee (per lane)	Cumulative Lane Rental Fee (per lane)
0 - 15 minutes	\$750	\$750
15 - 30 minutes	\$1,500	\$2,250
30 - 45 minutes	\$2,250	\$4,500
> 45 minutes	\$3,000*	\$7,500 and up

(*) Lane rental fees will continue to be assessed at this rate per 15 minutes.

Ramp closures

Closure Outside Allowed Time Period	15 minute Lane Rental Fee (per lane)	Cumulative Lane Rental Fee (per lane)
0 - 15 minutes	\$750	\$750
15 - 30 minutes	\$750	\$1,500
30 - 45 minutes	\$1,500	\$3,000
> 45 minutes	\$1,500*	\$4,500 and up

(*) Lane rental fees will continue to be assessed at this rate per 15 minutes.

The Lane Rental Fee Assessment represents a portion of the cost of the interference and inconvenience to the road users for each closure. All lane, roadway, or ramp closure event increments 15 minutes and less will be assessed as a 15-minute increment.

The engineer, or designated representative, will be the sole authority in determining time period length for the Lane Rental Fee Assessment.

Lane Rental Fee Assessments will not be assessed for closures due to crashes, accidents, or emergencies not initiated by the contractor.

The department will assess Lane Rental Fee Assessment by the dollar under the administrative item Failing to Open Road to Traffic. The total dollar amount of Lane Rental Fee Assessment will be computed by multiplying the Lane Rental Assessment Rate by the number of 15-minute increments of each lane closure event as described above.

Lane Rental Fee Assessment will be in effect from the time of the Notice to Proceed until the department issues final acceptance. If interim completion time or contract time expires before the completion of specified work in the contract, additional liquidated damages will be assessed as specified in standard spec 108.11 or as specified within this contract.

10. Temporary Regulatory Speed Limit Reduction.

A reduction of the posted regulatory speed limit from 65 mph (or 70 mph) to 55 mph is required when any of the following conditions are created within the project limits: 1. Lane(s) closed and workers are present and active in close proximity to an open lane. 2. Lane(s) narrowed to less than 12 feet and adjacent

shoulder width is reduced. 3. Traffic is shifted partly or completely onto a shoulder and/or temporary pavement and shoulder width is reduced. At all other times the posted regulatory speed limit shall be 65 mph (or 70 mph).

During periods when traffic conditions do not require a Temporary Regulatory Speed Reduction, speed limit signs shall be changed to the permanent posted speed limit. This may require posted speed sign changes twice a day or more. Changing temporary and existing/permanent signs between 65 mph (or 70 mph) and 55 mph shall be considered incidental to the item Traffic Control.

No portion of sign text shall be visible when not in use, regardless if it is temporary or permanent regulatory speed limit sign.

During approved temporary regulatory speed limit reductions, install regulatory speed limit signs on the inside and outside shoulders of the roadway at the beginning of the reduced regulatory speed zone, after all locations where traffic may enter the highway segment or every 1/2 mile within the reduced regulatory speed zone. Signs shall be installed at the end of the temporary regulatory speed zone to designate the end of the temporary regulatory speed zone and inform drivers the posted regulatory speed limit reverts back to 65 mph (or 70 mph). To minimize possible confusion to the traveling public and to ensure appropriate speed enforcement, enhanced attention to placement and changing of speed limit signs is required.

Coordinate with department construction field staff to notify the Northeast Region Traffic Section with field location(s) of the temporary regulatory speed zone. Primary contact phone number: 920-492-5652 (secondary contact number is 920-492-7165). Contact the Northeast Region Traffic Section at least 14 calendar days before installation of the temporary regulatory speed zone. After notification, Northeast Region Traffic will create a "Temporary Speed Zone Declaration" to meet statutory requirements, allowing enforcement of this temporary regulatory speed limit.

When construction activities impede the location of a post mounted regulatory speed limit sign, mount the regulatory speed limit sign on portable supports that meet the "crashworthy" definition and height criteria in the Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).

11. Traffic Control.

Perform this work conforming to standard spec 643, and as the plans show, or as the engineer approves, except as follows.

Submit to engineer for approval a detailed traffic control plan for any changes to the proposed traffic control detail as the plans show. Submit this plan ten (10) days before the preconstruction conference.

Provide 24 hours-a-day availability of equipment and forces to expeditiously restore lights, signs, or other traffic control devices that are damaged or disturbed. The cost to maintain and restore the above items shall be considered incidental to the item as bid and no additional payment will be made therefore.

Supply the name and telephone number of a local contact person for traffic control repair before starting work.

Have available at all times sufficient experienced personnel to promptly install, remove and reinstall the required traffic control devices to route traffic during the construction operations.

The turning of traffic control devices when not in use to obscure the message will not be allowed under this contract.

Obtain prior approval from the engineer for the location of egress and ingress for construction vehicles to prosecute the work.

Cover existing signs which conflict with traffic control as the engineer directs.

Conduct operations in such a manner that causes the least interference and inconvenience to the free flow of vehicles on the roadways. This includes the following:

Do not park or store any vehicle, piece of equipment, or construction materials on the right of way, unless otherwise specified in the traffic control article or without approval of the engineer.

All construction vehicles and equipment entering or leaving live traffic lanes shall yield to through traffic.

Equip all vehicles and equipment entering or leaving the live traffic lanes with a hazard identification beam (flashing yellow signal) capable of being visible on a sunny day when viewed without the sun directly on or behind the device from a distance of 1000 feet. Activate the beam when merging into or exiting a live traffic lane.

Do not disturb, remove or obliterate any traffic control signs, advisory signs, shoulder delineators or beam guard in place along the traveled roadways without the approval of the engineer. Immediately repair or replace any damage done to the above during the construction operations at contractor expense.

The traffic requirements are subject to change at the direction of the engineer in the event of an emergency.

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12. Signs Type I and II.

Furnish and install mounting brackets per approved product list for type II signs on overhead sign supports incidental to sign. For type II signs on sign bridges use aluminum vertical support beams incidental to sign.

Modify 637.2.4 of the standard specifications with the following:

Use stainless steel bolts, washers and nuts for type I and type II signs mounted on sign bridges or type I signs mounted on overhead sign supports. Use clips on every joint for Sign Plate A 4-6 when mounted on a sign bridge or overhead sign support. Inspect installation of clips and assure bolts and nuts are tightened to manufacturers recommended torque values.

Use aluminum vertical sign support beams that have a 5-inch wide flange and weigh 3.7 pounds per foot, if the L-brackets are 4 inches wide then use 4-inch-wide flange beams weighing 3.06 pounds per foot. Measure the width of the L-brackets on existing structures to determine the width needed for sign support beams

Use beams a minimum of six feet in length or equal to the height of the sign to be supported, whichever is greater. Use U-bolts that are made of stainless steel, one-half inch diameter and of the proper size to fit the truss cords of each sign bridge. Install vertical sign support beams on each sign and use new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss.

For type II signs on overhead sign supports follow the approved product list for mounting brackets.

Replace 637.2.4.1(2)2 of the standard specifications with the following:

Clips may be either stainless steel or ASTM B 108, aluminum alloy, 356.0-T6.

Append 637.3.3.2(2) of the standard specifications with the following:

Install Type I Signs at the offset stated in the plan, which shall be the clear distance between the edge of mainline pavement right edge line and the near edge of the sign.

Append 637.3.3.3(3) of the standard specifications with the following:

Furnish and install new aluminum vertical sign support beams on each sign and new U-bolts to attach each beam to the top and bottom cord of the sign bridge truss for Type I or Type II Signs and Type I signs on overhead sign supports incidental to sign.

13. Tension Anchor Rod, Item SPV.0060.01.

A Description

This special provision describes re-tensioning loose anchor rod nuts as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with the pertinent provisions of section 641 of the standard specifications and as shown in the plans.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 641 of the standard specifications and as shown in the plans. This work will consist of re-tensioning all loose anchor rod nuts as specified in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. The contractor shall verify the grade of the anchor rod. If an anchor rod grade cannot be verified, the Department shall be contracted for direction. Note that A36 rods have different tensioning requirements.

2. The contractor shall field verify the size and number of nuts required to be replaced. Note that if one or more are found to be loose, all are required to be replaced.
3. Remove all jam nuts¹.
4. The contractor shall furnish flat washers and heavy hex nuts conforming to Section 641.2.2.3. Existing jam nuts¹ may be reused.
5. Remove rodent screen¹.
6. Remove and dispose of the grout pad¹ in accordance to standard spec 509.3.4.
7. Tighten all nuts that are loose to snug tight (leveling and top nut). Reference the Department's Form DT2321 for snug tight torque values.
8. Contact the department for direction of the top nut is not fully snugged and cannot be turned.
9. Once all nuts are snug, remove one and only one top nut at a time and follow the remaining procedure. Top nuts, flat washers, and locking washers (if applicable) shall be discarded, the leveling nuts shall remain, and jam nuts¹ may be reused.
10. Remove rust and dirt, from anchor rod and base plate with a wire brush.
11. Apply one light coat of fast drying zinc rich primer or spray-on cold galvanized (if rust is present) to the full length of the anchor bolt and at damaged base plates. Repair any damaged galvanized coating incidental to the re-tensioning process.
12. Apply wax-based lubricant to the anchor rod.
13. Install top nut to snug tight. Reference the Department's form DT2321 for snug tight torque values.
14. Repeat steps 3 thru 12 in this specification until all washers and nuts have been replaced.
15. Tension the anchor rod nuts. Follow the Department's Form DT2321 procedure steps 5 thru 7 and record the tensioning process.
16. Clean, lubricate and install jam nut¹ per step 8 of Form DT2321.
17. Apply two coats of zinc rich primer to any damaged areas of the structure base plates and used jam nuts.
18. Reinstall the rodent screen¹.
19. Complete Form DT2321 for each structure and submit to Jason Zemke (262-548-8734) for transmittal to Bureau of Structures and inclusion in HSIS.

Note¹ – Only for structures that have jam nuts, grout, or rodent screens.

All work for this item, including site clean-up, shall be completed in one shift. If it is a cantilever structure with a connection which has 6 or less bolts, the truss or mastarm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the project engineer and BOS for permanent record.

D Measurement

The department will measure Tension Anchor Rod as each individual anchor rod acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.01	Tension Anchor Rod	Each

Payment is full compensation for tensioning loose anchor rod nuts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

14. Remove Debris and Regrade, Item SPV.0060.02.

A Description

This special provision describes removing debris and grading around the foundation as shown on the plans, and as hereinafter provided.

B (Vacant)

C Construction

Remove debris and dispose of it in accordance with section 202 of the standard specifications. Grade the area around the foundation to drain in accordance with section 213 of the standard specification.

D Measurement

The department will measure Remove Debris and Regrade as each foundation location acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.02	Remove Debris and Regrade	Each

Payment is full compensation for removing and disposing of the debris; grading to the foundation; restoration; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

15. Replace Foundation, Item SPV.0060.03.

A Description

This special provision describes removing and replacing the foundation as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 636, 641 and as shown in the plans.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 636, 641 and as shown in the plans. The existing post, cantilever truss and signs are to be removed and reinstalled on the new foundation. The contractor is responsible for storing the structure and for any damage that occurs during removal, storage or reinstallation of the structure. The existing foundation is to be removed in accordance with standard spec 204.

D Measurement

The department will measure Replace Foundation as each foundation location acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.03	Replace Foundation	Each

Payment is full compensation for removing, temporarily storing, and reinstalling existing pole and arms; for providing concrete; for providing and removing casing; for excavating and backfilling; for providing and placing anchor rods; for providing and installing steel reinforcement; for providing and installing any nuts, bolts, washers or other hardware necessary to remove and reinstall the existing post, cantilever truss and signs on the new foundation; for cleaning-up, repairing damage, and for disposing of excavation and surplus materials.

16. Remove Grout Pad, Item SPV.0060.04.

A Description

This special provision describes removing grout pads under base plates as shown on the plans, and as hereinafter provided.

B Materials

Furnish cold-applied galvanizing in accordance to "Tension Anchor Rod" Article.

Furnish rodent screen and wire to secure the rodent screen in accordance to the "Replace Rodent Screen" Article.

C Construction

Remove and dispose of the grout pad use air chippers or breakers that weigh no more than 35 pounds and are equipped with flat, chisel-type points with a cutting edge not less than 3/4 inch or greater than 3 inches wide. After reaching the edge of the anchor rods, do not use hammers heavier than 15 pounds within one inch of the steel. Dispose of old concrete and asphaltic patching removed away from the bridge site. Implement necessary procedures to minimize debris dropping into the stream, streambed, roadway, or right-of-way below. If the foundation spalls during removal of grout pad, repair according to 509.3.7 of the standard specification. If excessive areas begin to spall, contact BOS for guidance.

Measure distance from top of concrete to bottom of leveling nut. If the distance is greater than the diameter of the anchor rod, contract the department for further instruction.

Thoroughly clean the existing anchor rods and leveling nuts below the base plate, roughen the surface on the anchor rods and apply cold-galvanizing to the anchor rods and leveling nuts.

Install a rodent screen in accordance to the Replace Rodent Screen Article if electrical devices are installed on the structure.

D Measurement

The department will measure Remove Grout Pad by each unit, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.04	Remove Grout Pad	Each

Payment is full compensation for removing and disposing of the grout pad; cleaning and applying cold-galvanizing; and for providing and installing a rodent screen.

17. Tension Structural Connection Bolt (Friction), Item SPV.0060.05.

A Description

This special provision describes replacing splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolt as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 641, 657 and as shown in the plans.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 641, 657 and as shown in the plans. The contractor shall follow the re-tensioning procedure outlined herein:

1. Each bolt to be tensioned shall be replaced with a new bolt to properly tension the bolt. The new bolt installed will follow the below procedure.

2. The contractor shall field verify the size and number of bolts, nuts, flat washers, and DTI washers at each structure to be replaced. Note that since the DTI's are to be utilized, the number of washers may change and the lengths of the bolts may need to be increased.
3. Lock washers shall **not** be used in connections. Washers are **not** to be placed between faying surfaces. If present, lock washers and washers between faying surfaces must be removed and discarded.
4. The contractor shall furnish bolts, flat washers, heavy hex nuts, shims, and DTI's conforming to standard spec 641.
5. Perform the pre-installation test in accordance to the department's form DT2322.
6. Tighten all nuts that are loose to snug tight. Note that this is to be done for stability purposes.
7. Once all nuts are snug, remove one and only one bolt at a time and follow the remaining procedure. Existing bolts, nuts washers, and shims shall be discarded.
8. Install the new bolt to snug tight.
9. Repeat steps 7 and 8 until all bolts have been replaced. Ensure there are no gaps in the faying surface after all bolts have been replaced. If gaps are present, contact central office contact on DT form.
10. Follow the department's Form DT2322 installation procedure for tensioning of the replacement bolts.
11. Complete Form DT2322 for each structure and submit to the regional ancillary structure engineer for transmittal to BOS and inclusion in HSIS.

All work under this item, including site cleanup, shall be completed within one shift. If it is a cantilever structure or a connection which has 6 or less bolts, the truss or mastarm shall be supported by a crane during bolt replacement. In lieu of a supporting crane, the contractor may instead submit a structural analysis of the structure addressing proposed constructability which ensure the stability and safety of workers and the traveling public. Analysis computation and support document shall be signed, sealed and dated by a professional engineer licensed in Wisconsin, and shall be submitted to the project engineer and BOS for permanent record.

D Measurement

The department will measure Tension Structural Connection Bolt (Friction) as each individual bolt, acceptably completed

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.05	Tension Structural Connection Bolt (Friction)	Each

Payment is full compensation for replacing all necessary splice, post-to-truss, truss gusset, post to mastarm and any other tensioned structural connection high strength bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair.

18. Secure/ Replace Cap, Item SPV.0060.06.

A Description

This special provision describes securing or replacing missing or deteriorated chord, post and miscellaneous caps and securing them as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with the pertinent provisions of sections 641 and 657 of the standard specifications and as shown in the plans. Contractor to field verify size of chord, post and miscellaneous caps to be replaced.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 641 and 657 of the standard specifications and as shown in the plans. Miscellaneous hardware required to securely install the end cap will be considered incidental to this item.

D Measurement

The department will measure Secure/ Replace Cap as each individual cap acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.06	Secure/ Replace Cap	EACH

Payment is full compensation for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

19. Slotted Hole Repair On Sign Support Bracket, Item SPV.0060.07.

A Description

This special provision describes repairing the slotted holes in vertical sign support brackets as shown in the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with the pertinent provisions of sections 641 of the standard specifications and as shown in the plans.

C Construction

Field verify the length of the aluminum plate needed for the existing aluminum I-beam with the slotted holes and field verify the U-bolt size and diameter. Remove all existing U-bolt connection and hardware. Install new stainless-steel U-bolts, stainless steel nuts, washers and aluminum plates as shown on the plans. Repair work must be done on only one connection at a time.

D Measurement

The department will measure Slotted Hole Repair on Sign Support Bracket as each individual aluminum I-beam acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.07	Slotted Hole Repair on Sign Support Bracket	Each

Payment is full compensation for field verifying existing aluminum I-beam needing repair; for furnishing all materials and miscellaneous items to complete all required repairs at each individual I-beam; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

20. Replace Sign Connection Clamp, Item SPV.0060.08.

A Description

This special provision describes replacing the cracked or missing sign connection clamp as shown on the plans, and as hereinafter provided

B Materials

Furnish connection materials for overhead-mounted signs that are in accordance to the standard spec 637 and which are on the department's approved product list and as shown in the plans. Furnish sign connection clamps as required to be replaced as shown in the plans.

C Construction

Use construction methods that are in accordance to standard specs 637 and 641 and as shown in the plans. All bolts, nuts, washers or miscellaneous items required to replace the cracked or deteriorated sign connection hardware will be considered incidental to this item.

D Measurement

The department will measure Replace Sign Connection Clamp as each individual sign which has hardware replaced, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.08	Replace Sign Connection Clamp	Each

Payment is full compensation for replacing sign connection clamp; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; and for handling, transporting, and erecting. Approved products do not require contractor to fabricate parts.

21. Replace U-Bolt, Item SPV.0060.09.

A Description

This special provision describes furnishing and replacing damaged or loose U-bolts as shown on the plans, and as hereinafter provided.

B Materials

Stainless steel U-bolts and lock washers shall conform to ASTM 304. Stainless steel hex nuts shall conform to ASTM A276.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 641 of the standard specifications, WisDOT Sign Plate Manual Detail A4-7 and as shown in the plans.

D Measurement

The department will measure Replace U-bolt as each individual U-bolt acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.09	Replace U-bolt	Each

Payment is full compensation for furnishing and replacing U-bolts, nuts and lock washers; for removing and properly disposing of existing materials; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

22. Install ID Plaque, Item SPV.0060.10.

A Description

This special provision describes installing sign, signal and high mast light ID plaques as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with SDD 10A4-3 and/or SDD 12A4-3 as required by structure type.

C Construction

Install the sign bridge ID plaque in accordance with SDD 10A4-3 and/or SDD 12A4-3 as required by structure type. Miscellaneous hardware required to securely install the ID plaque will be considered incidental to this item.

D Measurement

The department will measure Install ID Plaque as each individual sign bridge ID plaque acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.10	Install ID Plaque	Each

Payment is full compensation for installing sign bridge ID plaque; for removing and properly disposing of existing materials being replaced; for furnishing and installing all materials and miscellaneous items to complete the installation; and for fabricating, handling, transporting, and erecting.

23. Install Sign Panel Connector, Item SPV.0060.11.

A Description

This special provision describes furnishing and installing sign panel connectors and removing and replacing existing defective or damaged sign panel connectors as shown in the plans, and as hereinafter provided.

B Materials

Provide sign panel connectors, bolts, nuts and washers meeting the requirements of section 637.2.4 of the standard specifications and Sign Plate A5-2. Connectors shall be aluminum alloy 356-T6 , bolts shall be stainless steel, flat washer shall be 3/8" x .091 stainless steel, and stop nuts shall be stainless steel.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 637 of the standard specifications and as shown in the plans.

Remove and properly dispose of defective or damaged existing sign panel connectors.

Tighten the bolts and nuts to the manufacturer's recommended torque value.

D Measurement

The department will measure Install Sign Panel Connector as each individual sign panel connector acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.11	Install Sign Panel Connector	Each

Payment is full compensation for furnishing and installing sign panel connectors, bolts, nuts and washers; for removing and properly disposing of existing defective or damaged sign panel connectors; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

24. Adjust Vertical Clearance, Item SPV.0060.12.

A Description

This special provision describes adjusting sign or signal placement as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with sections 637 and 658 of the standard spec.

C Construction

Adjust sign and support brackets to position and vertical clearance to meet section 637.3.3.2 of the standard spec and as shown in the plans.

Adjust signal and support brackets to position and vertical clearance to meet the pertinent details in Series 9 of the Standard Detail Drawings and as shown in the plans.

All bolts, nuts, washers or miscellaneous items required to adjust the position of the sign or signal will be considered incidental to this item.

D Measurement

The department will measure Adjust Vertical Clearance by each unit, acceptably completed.

E Payment

The department will pay for the measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.12	Adjust Vertical Clearance	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing all connection hardware and adjusting vertical position of signs; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

25. Replace Handrail Hinge Pins, Item SPV.0060.13.**A Description**

This special provision describes replacing and aligning handrail hinge locking pins as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance to standard spec 641 and as shown in the plans.

C Construction

Use construction methods that are in accordance to standard spec 641 and as shown in the plans.

Align pin such that the existing railing operates correctly.

D Measurement

The department will measure Replace Handrail Hinge Pins as each individual handrail hinge pin replacement and alignment acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.13	Replace Handrail Hinge Pins	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing materials; and for aligning the locking pin so the handrail can be used properly.

26. Replace Safety Chain, Item SPV.0060.14.**A Description**

This special provision describes replacing catwalk safety chains as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance standard spec 641 and as shown in the plans.

C Construction

Use construction methods that are in accordance to standard spec 641 and as shown in the plans.

Field verify the length of safety chain required and the diameter of existing eyebolts.

Provide new eye bolts, nuts and washers for the safety chain. If the new eyebolts cannot be installed in the existing connection holes, drill the existing connection holes large enough to accept the new eyebolts.

Remove and properly dispose of the existing safety chain being replaced.

D Measurement

The department will measure Replace Safety Chain as each individual safety chain, acceptably completed

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.14	Replace Safety Chain	Each

Payment is full compensation for field verifying existing conditions; for removing and properly disposing of the existing safety chain and connection hardware; and for furnishing and installing the new safety chain and connection hardware, including drilling connection holes.

27. Install Conduit Plug, Item SPV.0060.15.

A Description

This special provision describes replacing missing conduit plugs as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with section 652 of the standard specifications and as shown in the plans.

C Construction

Use construction methods that are in accordance with section 652 of the standard specifications and as shown in the plans.

Field verify the size of the conduit plug required. Lubricate the conduit plug threads with an approved anti-seize compound.

D Measurement

The department will measure Install Conduit Plug as each individual conduit plug acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.15	Install Conduit Plug	Each

Payment is full compensation for field verifying existing conditions; for furnishing and installing the new conduit plug, including anti-seize compound.

28. Secure/ Replace Handhole Cover, Item SPV.0060.16.

A Description

This special provision describes replacing or securing handhole covers as shown on the plans, and as hereinafter provided.

B Materials

Furnish materials that are in accordance with the pertinent provisions of standard specification sections 641 and 659 and as shown in the plans.

C Construction

Use construction methods that are in accordance with the pertinent provisions of section 641 and 659 and as shown on plans. Replace missing handhole covers. Drill and tap bolt holes as required.

D Measurement

The department will measure Secure/ Replace Handhole Cover Bolt as each individual handhole cover acceptably completed.

E Payment

The department will pay for the measured quantity at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.16	Secure/ Replace Handhole Cover	Each

Payment is full compensation for replacing or tightening handhole cover bolts; for removing and properly disposing of existing materials being replaced; for furnishing all materials and miscellaneous items to complete the repair; for fabricating, handling, transporting, and erecting.

29. Traffic Control – Single Lane Closure, Item SPV.0060.17.

A Description

This special provision describes providing traffic control by closing a lane to traffic to perform the necessary repairs for each structure.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans and listed in Section 4 – Traffic and Section 9 – Traffic Control. Furnishing of signs, channelizing devices (barrels, cones, etc.) and vehicles for performing traffic control shall be considered incidental to this item. All work performed utilizing a shoulder closure in lieu of a lane closure shall also be considered incidental.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans.

D Measurement

The department will measure Traffic Control – Single Lane Closure as each individual lane closed and reopened to traffic, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.16	Traffic Control – Single Lane Closure	Each

Payment is full compensation for furnishing all required signs and materials for proper traffic control and for deploying and removal of all materials.

30. Traffic Control – Double Lane Closure, Item SPV.0060.18.

A Description

This special provision describes providing traffic control by closing two lanes to traffic to perform the necessary repairs for each structure. Traffic control plans shall be submitted to the engineer for acceptance at least ten (10) working days prior to performing the closure.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans and listed in Section 4 – Traffic and Section 9 – Traffic Control. Furnishing of signs,

channelizing devices (barrels, cones, etc.) and vehicles for performing traffic control shall be considered incidental to this item.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans.

D Measurement

The department will measure Traffic Control – Double Lane Closure as each double lane closure performed and reopened to traffic, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.16	Traffic Control – Double Lane Closure	Each

Payment is full compensation for furnishing all required signs and materials for proper traffic control and for deploying and removal of all materials.

31. Traffic Control – Ramp Closure, Item SPV.0060.19.

A Description

This special provision describes providing traffic control by closing a ramp to traffic to perform the necessary repairs for each structure. Traffic control plans shall be submitted to the engineer for acceptance at least ten (10) working days prior to performing the closure.

B Materials

Furnish materials that are in accordance to the pertinent provisions of standard spec 643, as shown in the plans, and listed in Section 4 – Traffic and Section 9 – Traffic Control. Furnishing of signs, channelizing devices (barrels, cones, etc.) and vehicles for performing traffic control shall be considered incidental to this item.

C Construction

Use construction methods that are in accordance to the pertinent provisions of standard spec 643 and as shown in the plans.

D Measurement

The department will measure Traffic Control – Ramp Closure as each individual ramp closed and reopened to traffic, acceptably completed.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0060.19	Traffic Control – Ramp Closure	Each

Payment is full compensation for furnishing all required signs and materials for proper traffic control and for deploying and removal of all materials.

32. Repair Galvanized Coating, Item SPV.0165.01.

A Description

This special provision describes providing surface cleaning and painting the galvanized posts at locations specified in the plans, and as hereinafter provided.

B Materials

Supply specific product data sheets to the engineer prior to starting work. Material is to be approved by the Engineer prior to being installed.

C Construction

Repair all zinc coating that is chipped or damaged or as otherwise noted by plans or the engineer by metallizing according to ASTM A780. Thoroughly clean the places receiving coating before applying the new coating.

D Measurement

The department will measure Repair Galvanized Coating by the square foot acceptably completed with a minimum quantity of one (1) square foot at each repair location.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
SPV.0165.01	Repair Galvanized Coating	SF

Payment is full compensation for cleaning; for protecting traffic and property; for furnishing all materials and miscellaneous items to complete the replacement; for handling, transporting, and erecting; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the contract work.

PROGRAMMATIC CATEGORICAL EXCLUSION

FOR STATE AND FEDERALLY FUNDED ACTIONS


Wisconsin Department of Transportation

Revised July 2015

WisDOT Design and Construction IDs 1009-30-14 (Design), 1009-30-15/1009-30-16 (Construction)	Federal Project IDs (if available) N/A	Legal Description (Township, Range, Section) Northeast and Southwest Regions	County Brown, Door, Fond du Lac, Manitowoc, Marinette, Outagamie, Sheboygan, Winnebago, Columbia, Green, Sauk, Dane
Project Name Sign Bridge Repair/Replacement		Project Termini/ Location Regionwide Various Routes	
Name of Route or Facility to be Improved Var Hwy	Facility Classification IH, USH, STH, CTH, Local	Improvement Type Traffic Operations Signing	
Estimated Project Cost in Year of Expenditure \$ (include R/W Cost) \$405,000		Funding Source(s) (check all that apply) <input checked="" type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Local	
<p>23 CFR 771.117(d) Project Type Number and Text (see Table 1 below)</p> <p>(13) Actions described in paragraphs (c)(26), (c)(27), and (c)(28) of this section that do not meet the constraints in paragraph (e) of this section.*</p> <p><i>*23 CFR 771.117(c)(26-28) appear below. If processing a project of this type with the PCE, use number (d)(13) and the appropriate CE type description where necessary.</i></p> <p>(26) Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (including parking, weaving, turning, and climbing lanes).</p> <p>(27) Highway safety or traffic operations improvement projects, including the installation of ramp metering control devices and lighting.</p> <p>(28) Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings.</p>			
<p>Section 4(f)</p> <p><input checked="" type="checkbox"/> None <input type="checkbox"/> De Minimis <input type="checkbox"/> Bikeway/ Walkway <input type="checkbox"/> Minor Park/ Rec <input type="checkbox"/> Minor Historic <input type="checkbox"/> Net Benefit <input type="checkbox"/> Exception</p>			
<p>Right of Way Acquisition</p> <p>0 Total Acres 0 Fee Simple Acres 0 Permanent Easement Acres 0 Temporary Easement Acres</p>			
<p>Number of Buildings Acquired</p> <p><input checked="" type="checkbox"/> None Vacant Buildings Occupied Buildings</p>			
Name of Individual/ Firm Preparing this Form Kyle Tremi, P.E./WisDOT		CE Preparation Date 1/7/19	Project Start Date 9/27/18


WisDOT Region Environmental Coordinator or Local Program Management Consultant

I certify that I meet the requirements for staff who review and recommend approval of Categorical Exclusion (CE) actions, specified in the FHWA – WisDOT CE Agreement. I further certify that I have reviewed this document, and agree with the determination that the proposed project and resultant impacts meet the definition of a CE as described in 23 CFR 771.117(a) & (b), and will not result in significant environmental impacts. I recommend this CE for approval.


(Signature)
Mike Helmrich
(Print Name)
1-7-19
(Date)

WisDOT Region, Central Office, or Local Program Project Manager

I certify that I am familiar with this proposed project and its impacts and that the information contained in this document is accurate and can be relied upon for documentation decisions. I further certify that the mitigation measures and commitments proposed herein will be incorporated into the project plans and contract documents. I approve this CE.


(Signature)
Kyle Tremi
(Print Name)
1/7/19
(Date)

1.1 Purpose and Eligibility

The FHWA – WisDOT Categorical Exclusion Programmatic Agreement (Agreement) allows WisDOT to make categorical exclusion (CE) determinations on FHWA's behalf for certain projects listed in 23 CFR 771.117(d) when the projects do not exceed the environmental impact criteria specified in the Agreement. The Programmatic Categorical Exclusion (PCE) is the acceptable form of documentation for these projects. While the PCE is based on the Agreement with FHWA, it may also be used to document certain projects that require only state and/or local funding and approvals.

The actions described in Table 1 are eligible for PCE consideration if (1) they meet the definitions of an action, (2) they do not include significant impacts, (3) they do not include unusual circumstances that warrant the preparation of an Environmental Report (ER), Environmental Assessment (EA), or Environmental Impact Statement (EIS), and (4) they do not exceed the environmental impact thresholds specified in the Agreement. Any project that does not meet these criteria or that has been determined to have substantial controversy based on environmental grounds is not eligible for PCE consideration.

A determination that this project satisfies the criteria for a PCE does not relieve the applicant of the requirement to comply with other laws and regulations including, but not limited to, Section 404 of the Clean Water Act, Section 7 of the Endangered Species Act, Section 106 of the National Historic Preservation Act, and Section 4(f) of the US Department of Transportation Act. Coordination to comply with these other laws may require FHWA involvement. Furthermore, designation of this project as a PCE does not relieve the requirement for WisDOT to coordinate with WDNR under the Cooperative Agreement. Any correspondence or documentation used to comply with federal, state, or local laws or regulations should be maintained in the project file and provided with this checklist upon request.

23 CFR 771.117(d)(13) allows the actions described in 23 CFR 771.117(c)(26-28) to be processed as (d)-list actions if they do not meet the criteria in 23 CFR 771.117(e). An action that does not meet the criteria in paragraph (e) may be documented with a PCE *unless* it is disqualified by the environmental impact criteria of Section VII.A. of the Agreement, which are reflected on this PCE form. If an action fails to meet both sets of criteria, it must be documented with an ER, EA, or EIS, as applicable.

Table 1: Eligible Categorical Exclusion Project Types

<p>23 CFR 771.117(d)</p> <p>(1-3) Reserved</p> <p>(4) Transportation corridor fringe parking facilities.</p> <p>(5) Construction of new truck weigh stations or rest areas.</p> <p>(6) Approvals for disposal of excess right-of-way or for joint or limited use of right-of-way, where the proposed use does not have significant adverse impacts.</p> <p>(7) Approvals for changes in access control.</p> <p>(8) Construction of new bus storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and located on or near a street with adequate capacity to handle anticipated bus and support vehicle traffic.</p> <p>(9) Rehabilitation or reconstruction of existing rail and bus buildings and ancillary facilities where only minor amounts of additional land are required and there is not a substantial increase in the number of users.</p> <p>(10) Construction of bus transfer facilities (an open area consisting of passenger shelters, boarding areas, kiosks and related street improvements) when located in a commercial area or other high activity center in which there is adequate street capacity for projected bus traffic.</p> <p>(11) Construction of rail storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and where there is no significant noise impact on the surrounding community.</p> <p>[Note: 23 CFR 771.117(d)(12) "Acquisition for hardship or protective purposes" may not be processed with a PCE]</p> <p>(13) Actions described in paragraphs (c)(26), (c)(27), and (c)(28) of this section that do not meet the constraints in paragraph (e) of this section.*</p> <p><i>*23 CFR 771.117(c)(26-28) appear below. If processing a project of this type with the PCE, use number (d)(13) and the appropriate CE type description where necessary.</i></p> <p>(26) Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (including parking, weaving, turning, and climbing lanes).</p> <p>(27) Highway safety or traffic operations improvement projects, including the installation of ramp metering control devices and lighting.</p> <p>(28) Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings.</p>

1.2 Project is a Complete FHWA Action

Check all boxes that apply to the proposed project. To process your project with this checklist, you must be able to check all boxes.

23 CFR 771.111(f) In order to ensure meaningful evaluation of alternatives and to avoid commitments to transportation improvements before they are fully evaluated, the action evaluated shall:

- ☒ (1) Connect logical termini and be of sufficient length to address environmental matters on a broad scope
- ☒ (2) Have independent utility or independent significance, i.e., be usable and be a reasonable expenditure even if no additional transportation improvements in the area are made
- ☒ (3) Not restrict consideration of alternatives for other reasonably foreseeable transportation improvements

1.3 Unusual Circumstances

Check all boxes that apply to the proposed project. If any boxes in this section are checked, evaluate the scope of the project and coordinate with FHWA regarding the completion of more detailed environmental documentation.

23 CFR 771.117(b) Any action which normally would be classified as a CE but could involve unusual circumstances will require the FHWA, in cooperation with the applicant, to conduct appropriate environmental studies to determine if the CE classification is proper. Such unusual circumstances include:

- ☐ (1) Significant environmental impacts
- ☐ (2) Substantial controversy on environmental grounds – project is ineligible for PCE
- ☐ (3) Significant impact on properties protected by Section 4(f) of the DOT Act or Section 106 of the National Historic Preservation Act
- ☐ (4) Inconsistencies with any federal, state, or local law, requirement or administrative determination relating to the environmental aspects of the action
- ☐ Other unusual circumstances not listed in FHWA regulations (describe below)
(In Wisconsin, auxiliary lane and capacity expansion projects that are proposed for processing with this checklist are examples of unique or unusual circumstances and will require consultation with FHWA before proceeding with the project.)

Describe any unique or unusual circumstances and subsequent coordination with FHWA:

1.4 Tribal Lands

For projects, regardless of project type, located partially or entirely on Tribal lands in trust, allotted, or reservation status, WisDOT Region and Local Program staff shall consult with WisDOT Central Office Environmental Staff prior to preparing PCE documentation. In certain cases, the involvement of Tribal land may warrant preparing higher level environmental documentation (e.g. ER instead of PCE) than what is normally required by the FHWA – WisDOT CE Agreement. WisDOT Central Office Environmental Staff will ensure adequate Tribal consultation by WisDOT and engage FHWA in consultation when necessary.

Describe any Tribal coordination:

One sign structure (S-05-176) falls within tribal reservation. The Oneida Nation has expressed interest in these types of projects. Project impacts at this location will be coordinated with the Oneida tribal liaison. The project team also plans on including the Native American Hiring Provision on this project.

1.5 Preparing the Programmatic Categorical Exclusion

Once eligibility has been determined for a project, the PCE and associated documentation can be assembled. Each PCE document must include the following:

- ✓ Project Map (with title, cardinal directions, legend, scale, and state locator)
 - Aerial photograph (preferred)
 - Project boundaries/limits
 - Identify any public lands, waterways, and water bodies within or adjacent to the project boundary
 - Identify existing and new conditions if the project includes additional right of way (ROW)
 - Additional maps as needed to demonstrate project eligibility
- ✓ Appendices
 - Studies
 - Reports
 - *De Minimis* or Programmatic Section 4(f) documentation

- Agency coordination/documentation
- ✓ Other documentation as necessary

Section Two: Description of the Project and Alternatives

2.1 Project Description

Provide a brief description of the proposed action. Include a discussion of the purpose and need (e.g. system linkage(s), transportation demand, legislation, social demands or economic development, modal interrelationships, safety, and roadway deficiencies as applicable).

The project will provide repairs necessary to various sign bridge structures on various highways throughout the Northeast and Southwest Regions. The proposed project is needed to maintain existing signs and to prolong the life of these structures. The location of the sign bridge repairs are identified on the included preliminary plans.

2.2 Improvement Type

Identify the number and text of the 23 CFR 771.117 (d)-List project type (see Table 1) and provide a brief description of how the project fits this CE.

(23) Federally-funded projects:

(i) That receive less than \$5,403,484.88 of Federal funds (as adjusted annual by the Secretary to reflect any increases in the Consumer Price Index prepared by the Department of Labor, see www.fhwa.dot.gov or www.fta.dot.gov. Expect the number to change approximately annually); or

(ii) With a total estimated cost of not more than \$32,420,909.28 and Federal funds comprising less than 15 percent of the total estimated project cost.

2.3 Alternatives

Provide a brief description of any alternatives considered for this project, if multiple alternatives were considered.

None. The project scope is based on past structure inspections.

2.4 Agency/Local Unit of Government Coordination and Public Involvement

Provide a brief description of coordination conducted with agencies and local unit(s) of government. Describe any unresolved issues and how they will be resolved. Attach evidence of agency and local unit of government coordination as applicable.

The project purpose and need was shared with the WDNR and SHPO for comment. Neither agency had any concerns.

Provide a brief discussion of public involvement efforts. Describe any concerns expressed, how those concerns were resolved and how any unresolved concerns will be resolved.

Due to the limited scope of work involved and the isolated nature of each structure repair no public involvement meetings are planned. The public will be informed of the project by a pre-construction press release and weekly advisories during construction.

Section Three: WisDOT Programmatic Categorical Exclusion Criteria

3.1 Right-of-Way Acquisition

Right of way (ROW) for the proposed action may be acquired by fee simple purchase, permanent or temporary easement, right of entry, gift, or other means.

Will additional ROW be acquired?

- ☒ No
☐ Yes

If yes, provide the number of ROW acres to be acquired below and identify the acquisition(s) on the project map.

- ☐ Fee simple purchase - acres
- ☐ Permanent easement - acres
- ☐ Temporary easement - acres
- ☐ Right of Entry - acres
- ☐ Gift - acres
- ☐ Other, additional description:

3.2 Displacement or Relocation

A project is ineligible to use the PCE if any displacements or relocations occur as a result of the project. Vacant buildings that are not significant historic resources may be acquired.

Does the project require any displacements?

- ☒ No
- ☐ Yes – project is ineligible for PCE unless building is vacant

3.3 Burial Sites

A project is ineligible to use the PCE if it adversely affects burial sites.

Does the project adversely affect a burial site?

- ☒ No burial sites are affected by proposed actions.
- ☐ Proposed actions occur within a burial site without adverse effects. Wisconsin Statute 157.70 burial authorization is required prior to commencing proposed project actions.
- ☐ Proposed actions adversely affect a burial site – project is ineligible for PCE

3.4 Historic Properties (cultural resources) [Note: For projects with no federal participation, complete this section. For projects with federal participation, skip this section and complete Section 4.5 of this form.]

The state register of historic places includes districts, sites, buildings, structures, and objects which are significant in national, state, or local history, architecture, archaeology, engineering, and culture. A project is ineligible to use the PCE if it will affect a property listed on the state register.

Does the project affect any historic properties on the state register?

- ☐ There is, or will be, federal participation in this proposed project and this section does not apply. Section 4.5 will be completed.
- ☒ WisDOT has determined the proposed action will not affect a property that is listed on the state register or on the list of locally designated historic places under Wisconsin Statutes 44.45.
- ☐ WisDOT has determined its proposed action will affect a historic property – project is ineligible for PCE.

3.5 Wetlands, Streams, Lakes and other Water Bodies

When a project results in placement of fill into a wetland, stream, lake, or other water of the United States below the ordinary high water mark (OHWM), a permit is required from the US Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act. The USACE may issue a General Permit if specific criteria are met.

Will fill be added to the waters of the United States, including below the OHWM?

- ☒ No
- ☐ Yes

If yes, begin WDNR and USACE coordination and indicate type of permit under consideration for the action.

- ☐ General Permit
- ☐ Individual Permit – project is ineligible for PCE

If a Section 404 permit is required, include the WDNR letter with the specified Section 401 action and status of Section 401 Water Quality Certification in the appendix.

- ☐ Waived
- ☐ Section 401 Action pending final plan and/or erosion control plan

- ☐ Granted
- ☐ Granted with conditions – include a copy of the permit with the PCE
- ☐ Denied – project is ineligible for PCE

3.6 Agriculture

The Department of Agriculture, Trade and Consumer Protection (DATCP) should be notified of any project which may involve the acquisition of land from a farm operation (see FDM 20-45-35).

Do land acquisitions from farm operations require preparation of an Agricultural Impact Statement (AIS)?

- ☒ Does not apply – no acquisitions from farm operations
- ☐ No – DATCP has been notified of non-significant farmland acquisitions
- ☐ No – Form DT1999, Agricultural Impact Notice has been sent to DATCP and DATCP has determined an AIS WILL NOT be prepared.
- ☐ Yes – Form DT1999 has been sent to DATCP and DATCP has determined an AIS WILL be prepared – project is ineligible for PCE

3.7 Air Quality

Projects must be consistent with the State Implementation Plan (SIP) for air quality. This criterion is met for projects in counties designated as attainment for all criteria pollutants if the project is included in the State Transportation Improvement Program (STIP).

Regional conformity is required for counties designated as nonattainment or maintenance for ozone or PM_{2.5}. If the project occurs in a nonattainment county, check the appropriate box and include appropriate documentation in the appendix (if needed).

- ☐ The project is included in the approved Regional Transportation Plan (RTP) and Transportation Improvement Program (TIP) endorsed by the region's Metropolitan Planning Organization (MPO). The TIP was determined to conform by the Federal Highway Administration and the Federal Transit Administration.

Provide RTP name, TIP name, MPO name and TIP number:

- ☐ The project is located outside of a Metropolitan Planning Organization's boundaries and has received conformity determination per the rural conformity section of the WisDOT/WDNR Memorandum of Agreement.

Provide conformity finding date(s):

- ☒ The project is exempt per 40 CFR 93.126 or is a traffic signal synchronization project under 40 CFR 93.128.
- ☐ The project has been determined to be Not Regionally Significant per 40 CFR 93.101.
- ☐ The project is non-conforming – project is ineligible for PCE

WisDOT and FHWA have also determined that the project types included in this Programmatic Categorical Exclusion agreement, as defined under 23 CFR 771.117(d), would not meet or exceed the criteria that would require a qualitative or quantitative hot-spot analysis for mobile source air toxics or fine particulate matter (PM_{2.5}). This determination must be made in consultation with FHWA for auxiliary lane construction and new or expanded bus and rail terminals and transfer points.

Is the proposed action an auxiliary lane or new or expanded bus/rail terminal or transfer point project?

- ☒ No
- ☐ Yes – Consultation with FHWA has resulted in a determination that the action IS NOT a project of local air quality concern
- ☐ Yes – Consultation with FHWA has resulted in a determination that the action IS a project of local air quality concern – project is ineligible for PCE

3.8 Noise

Is this a Type I project (see FDM 23-10-1.1) for noise, thus requiring a noise analysis?

- ☒ No – the project does not meet the Type I project criteria
- ☐ Yes – a noise analysis has been performed and no impacts have been identified (attach Factor Sheet D-3, Traffic Noise Evaluation)
- ☐ Yes – a noise analysis has been performed and impacts will occur – project is ineligible for PCE

Sections 107.8 (6) and 108.7.1 of the WisDOT Standard Specifications for Highway and Structure Construction provide standard specifications for construction noise including hours of operation and equipment requirements. Will any Special Provisions, not including changes to the hours of operation, be required for mitigating construction noise impacts?

- ☒ No
☐ Yes – project is ineligible for PCE

3.9 Contaminated Sites

Acquisition of contaminated sites with hazardous materials or waste is the responsibility of the acquiring agency.

Will properties with hazardous materials or wastes be acquired for this project? If yes, contact the regional environmental coordinator for guidance on how to proceed.

- ☒ No
☐ Yes

Will a utility or other infrastructure be installed in, or adjacent to a contaminated property?

- ☒ No
☐ Yes

Are there conflicts with project construction according to the Utility Accommodation Policy (UAP)?

- ☒ No
☐ Yes

If yes, describe how conflicts with the UAP be managed.

Will the project include rehabilitation, reconstruction, or replacement of an existing bridge structure?

- ☒ No
☐ Yes

Is asbestos present? If yes, include any required special provisions in the appendix.

- ☒ No
☐ Yes

Include any special provisions in the appendix to address contamination that may be encountered within the right of way during construction, e.g., contaminated soil disposal, installation of contaminant migration barriers, or management of contaminated groundwater during construction dewatering.

3.10 Threatened and Endangered Species

Threatened and endangered species and their critical habitat are protected by both state and federal laws. The Wisconsin Department of Natural Resources (WDNR) can provide information on these species. Include a copy of the WDNR coordination in the appendix. The United States Fish and Wildlife Service (USFWS) is responsible for federally listed threatened and endangered species. Include any coordination with USFWS in the appendix.

Will the project result in a determination of “may affect, likely to adversely affect” for any threatened or endangered species or critical habitat?

- ☒ No
☐ Yes – project is ineligible for PCE

Describe species considered and coordination with WDNR and USFWS:

Northern Long-eared Bat

3.11 Bald and Golden Eagle Protection Act (BGEPA)

The Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d) prohibits anyone, without a permit issued by the Secretary of the Interior, from “taking” bald eagles, including their parts, nests, or eggs. WisDOT will coordinate with WDNR to identify known eagle nesting areas near the project prior to commencing construction. More information can be found at

<http://www.fws.gov/midwest/midwestbird/eaglepermits/bagepa.html>

Has eagle habitat and a nesting site(s) been identified in the project area?

- ☒ No
- ☐ Yes – Coordination with WDNR and USFWS has indicated their concurrence that the proposed project **WILL NOT** result in a take or disturbance of the habitat or nest(s)
- ☐ Yes – Coordination with WDNR and USFWS has indicated their concurrence that the proposed project **WILL** result in a take or disturbance of the habitat or nest(s) – project is ineligible for PCE

3.12 Access Control

Access controls are used to maintain traffic operations, facilitate orderly development, and promote safety along a highway system. Under the PCE, minor adjustments in access for individual parcels are acceptable, but may require additional consultation prior to proceeding with the PCE.

Does the project include any access modifications?

- ☒ No
- ☐ Yes – check all boxes that apply and provide a brief description of the access changes below. Attach an aerial photograph of the project clearly showing access modifications.
- ☐ Existing access will be changed through minor regrading or minor longitudinal shifts along the same alignment. The number of access points will not change.
 - ☐ Existing access points will be consolidated or relocated to a different road, but access to all parcels will be provided. Requires consultation with FHWA before proceeding with PCE if the project is federally-funded and the access modification is controversial (document below).
 - ☐ New access will be provided where none currently exists. Requires consultation with FHWA before proceeding with PCE if the project is federally-funded or with the REC, LPMC or EPDS liaison if the project is state-funded only (document below).
 - ☐ The access modification will occur on the Interstate Highway System – project is ineligible for PCE.
 - ☐ All access to a parcel will be removed and will not be replaced – project is ineligible for PCE.

Describe project access changes and required consultation:

3.13 Consistency with Existing Plans

Projects must be included in and consistent with the most recent version of Statewide Transportation Improvement Program (STIP), and the Transportation Improvement Program (TIP) if the project is located within the boundaries of one of Wisconsin's fourteen Metropolitan Planning Organizations (MPO). Projects must also be compatible with other plans approved at the region, county and local level.

Describe the applicable plans (e.g. State Transportation Improvement Program, Regional Transportation Plan, Transportation Improvement Program (TIP), local land use plan, bike/ walkway plan, etc.) for the area in which the action is proposed. Include the plan name, approval date(s), TIP number and other plan information as applicable. Identify whether or not the proposed action is consistent with the identified plan. If the proposed action is not consistent with an identified plan, the project is ineligible for PCE.

N/A

3.14 Coastal Zone

The Coastal Zone Management Plan guides development in the counties that have coastline on Lake Michigan or Lake Superior. Consistency with the Coastal Zone Management Plan requires project coordination and agreement from WDNR.

Is the proposed action consistent with the goals of the Coastal Zone Management Program?

- ☒ Yes
- ☐ No – project is ineligible for PCE

3.15 Flood Plains

Projects that require work encroaching on a regulatory floodway or any work affecting the base floodplain (100-year flood) elevations of a water course or lake are ineligible to use the PCE.

Will the proposed action cause changes to the floodplain?

- ☒ No
☐ Yes – project is ineligible for PCE

3.16 Public Lands

Special protections exist for public lands, including, parks, fishing access areas, and wildlife management areas purchased or improved using federal funding sources under Section 6(f) of the Land and Water Conservation Act of 1965 (LAWCON or LWCF), Dingle/Johnson funds (Federal Aid in Fish Restoration Act), or Pittman/Robertson funds (Federal Aid in Wildlife Restoration Act). Special protections may also apply to other uniquely-funded lands such as those purchased under the Knowles-Nelson Stewardship Program, Wetland Reserve Program and the North American Wetlands Conservation Act. The Regional WDNR Liaison can determine if these funding sources were used to acquire the property. Projects that acquire property from Pittman/Robertson, Dingle/Johnson, LWCF or other uniquely-funded lands are not eligible for a PCE.

Will the project acquire any lands purchased or improved with LWCF, Dingle/Johnson, or Pittman/Robertson funds or other uniquely-funded lands?

- ☒ No
☐ Yes – project is ineligible for PCE

3.17 Groundwater, Wells, and Springs

Is there potential for the project to have an impact on groundwater (including dewatering), springs, or wells (including groundwater monitoring wells from remediation projects) located in the project area?

- ☒ No
☐ Yes – Contact the region environmental coordinator, local program management consultant, or EPDS liaison to determine if the level of impact results in the project being ineligible for PCE.

Description of impacts:

3.18 Environmental Justice

The President's Executive Order 12898 on Environmental Justice requires each Federal agency, to the greatest extent practicable and permitted by law, to achieve environmental justice as part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects or economic effects, of its programs, policies, and activities on minority populations and low-income populations.

Will this project result in a disproportionately high adverse effect to a low-income population or a minority population?

- ☒ No
☐ Yes – project is ineligible for PCE

Describe steps taken to identify minority and low-income populations:

Section Four: Federal-Aid Criteria

4.1 Federal-Aid Criteria

Projects that receive funding or require an approval from FHWA must meet additional federal-aid criteria. In certain circumstances, projects with no FHWA funding or approvals, may still need to meet selected criteria below depending on whether another federal agency is involved and the scope of its involvement.

Will the project require funding and/or an approval from FHWA?

- ☐ No – checklist is complete
☒ Yes – proceed with Section 4

4.2 Section 4(f)

Section 4(f) of the US DOT Act of 1966 protects significant historic sites, parks and recreation areas, and waterfowl and wildlife refuges. Section 4(f) prohibits the “use” of these resources by a transportation project unless there is no feasible and prudent avoidance alternative and the action includes all possible planning to minimize harm, or FHWA determines that the use will have a *de minimis* (minor) impact. Use of Section 4(f) property occurs when: (1) land is permanently incorporated into a transportation facility; (2) there is a temporary occupancy that is adverse; or (3) there is a constructive use of the Section 4(f) property. Projects may include a use of Section 4(f) property only if it is *de minimis* or meets the criteria of one of the Section 4(f) programmatic evaluations (except the Programmatic Evaluation for Historic Bridges).

Does this project result in a use of Section 4(f) property?

- ☒ No – Section 4(f) resources are not present in the project area.
- ☐ No – Section 4(f) resources are present, but the project does not result in use of Section 4(f) resources.
- ☐ No – a Section 4(f) exception applies (see 23 CFR 774.13). Provide a description of the exception below.
- ☐ Yes – type of Section 4(f) documentation is indicated below.

Description of Section 4(f) exception:

If a Section 4(f) use will occur, indicate the type of Section 4(f) evaluation or determination that applies. Include the Section 4(f) documentation in the appendix. The Section 4(f) evaluation or determination will require review and approval by FHWA prior to the WisDOT approval of the PCE. A draft of the PCE should be sent to FHWA as supporting documentation for their Section 4(f) review.

- ☐ *De Minimis* impact determination
- ☐ Programmatic for Independent Walkway and Bikeway Construction Projects
- ☐ Programmatic for Minor Involvement with Historic Sites
- ☐ Programmatic for Minor Involvement with Parks, Recreation Areas, and Waterfowl and Wildlife Refuges
- ☐ Programmatic for Net Benefits to a Section 4(f) Property
- ☐ An Individual Section 4(f) Evaluation is required – project is ineligible for PCE

4.3 FHWA Statewide Wetland Finding

The FHWA Statewide Wetland Finding applies to bridge replacement or highway reconstruction projects which meet the following standards:

- (1) on existing location (i.e. within 0.3 mi of the existing),
- (2) affect a total of less than 7.4 acres of wetlands, and
- (3) have been coordinated with WDNR and WDNR has expressed no significant concerns over the proposed use of the wetlands.

Does the project meet the above standards for FHWA Statewide Wetland Finding? If no, include the FHWA wetland finding in the appendix.

- ☒ Does Not Apply – no wetlands impacted
- ☐ Yes
- ☐ No – FHWA individual wetland finding required – project is ineligible for PCE

4.4 Farmland

The U.S. Farmland Protection Policy Act requires coordination with the U.S. Department of Agriculture – Natural Resources Conservation Service (NRCS) whenever a project receives a score 60 or more points in Part VI of form AD-1006, Farmland Conversion Impact Rating or form NRCS-CPA-106, Farmland Conversion Impact Rating for Corridor Type Projects. If additional coordination with NRCS and final completion of either form results in a score of more than 160 points, there is potential for adverse impacts to farmland

Does the completion of either NRCS form identified above result in a score greater than 160 points?

- ☒ Does not apply – the project does not impact farmland
- ☐ No
- ☐ Yes – project is ineligible for PCE

4.5 Historic Properties (cultural resources)

Historic properties (cultural resources) are any prehistoric or historic district, site, building, structure, or object included in, or eligible for inclusion in the National Register of Historic Places maintained by the National Park Service.

Does the project affect any historic properties?

- ☒ There are no historic properties in the area of potential effect (APE).
- ☐ A determination of “no potential to effect historic properties” or “no adverse effects to historic properties” has been reached. Documentation may include WisDOT form DT1635 or a “screening list” decision and commitments.
- ☐ The proposed project will have adverse effects to historic properties – project is ineligible for PCE.

4.6 Wild and Scenic Rivers

Lands and waters of rivers designated as Wild and Scenic Rivers by the U.S. Government have special protections.

Does the project require construction in, across, or adjacent to a river designated as a component of or proposed for inclusion in the National System of Wild and Scenic Rivers published by the U.S. Department of the Interior/ U.S. Department of Agriculture?

- ☒ No
- ☐ Yes – project is ineligible for PCE

4.7 U.S. Coast Guard Permits

Under Section 9 of the Rivers and Harbors Act of 1899, the United States Coast Guard requires permits be obtained for bridge projects over navigable waters which are generally tributary to the Great Lakes or the Mississippi River. See Procedure 20-50-1.3 and 20-50-1.4 of the WisDOT Facilities Development Manual for a list of waters covered by Section 9.

Will the project require a permit from the United States Coast Guard (USCG)?

- ☒ No
- ☐ Yes – project is ineligible for PCE

Section Five: Environmental Commitments

List any environmental mitigation measures or commitments that will be incorporated into the project. Any items listed below must be incorporated into the project plans and contract documents. *Attach a copy of this page to the design study report (DSR) and the plans, specifications, and estimate (PS&E) submittal package.*

Environmental Factor	Commitment (If none, include 'No special or supplemental commitments required.')
General Economics	No special or supplemental commitments required.
Business	No special or supplemental commitments required.
Agriculture	No special or supplemental commitments required.
Community or Residential	No special or supplemental commitments required.
Indirect Effects	No special or supplemental commitments required.
Cumulative Effects	No special or supplemental commitments required.
Environmental Justice	No special or supplemental commitments required.
Historic Resources	No special or supplemental commitments required.
Archaeological/Burial Sites	No special or supplemental commitments required.
Tribal Coordination/Consultation	Native American Hiring Provision added.
Section 4(f) and 6(f) or Other Unique Areas	No special or supplemental commitments required.
Aesthetics	No special or supplemental commitments required.
Wetlands	No special or supplemental commitments required.
Rivers, Streams and Floodplains	No special or supplemental commitments required.
Lakes or other Open Water	No special or supplemental commitments required.
Groundwater, Wells and Springs	No special or supplemental commitments required.
Upland Wildlife and Habitat	No special or supplemental commitments required.
Coastal Zones	No special or supplemental commitments required.
Threatened and Endangered Species	No special or supplemental commitments required.
Air Quality	No special or supplemental commitments required.
Construction Stage Sound Quality	No special or supplemental commitments required.
Traffic Noise	No special or supplemental commitments required.
Hazardous Substances or Contamination	No special or supplemental commitments required.
Storm Water	No special or supplemental commitments required.

Erosion Control	<p>DNR final concurrence with the following provisions:</p> <ul style="list-style-type: none"> - Keep ground disturbance to the minimum amount necessary to complete the proposed work. - If working on bridges over water, please take measures to prevent any construction debris from falling into the water below. - Promptly restore any disturbed areas with appropriate erosion control BMP's following construction.
Other	No special or supplemental commitments required.

Treml, Kyle - DOT

From: Helmrick, Michael - DOT
Sent: Tuesday, September 18, 2018 8:03 AM
To: Treml, Kyle - DOT
Subject: RE: Region Wide Sign Bridge Repairs Project for 2019?

Categories: Environmental-Tribal

So far it's only the Oneida that have expressed interest in these types of projects. I'll add this one to my list of projects to coordinate with them (or for Matt Halada to do...). Given recent responses, I would plan to include the Native American Hiring Provision on the project. There's some debate as to whether it only applies to the one location, or if it applies to the whole project. But that's up to the labor/compliance folks to determine.

Thanks

Mike

Mike Helmrick

Region Environmental Coordinator
Phone: (920) 492-7738

If this is related to a records request, please email: dotdtsdnerecords@dot.wi.gov

From: Treml, Kyle - DOT
Sent: Monday, September 17, 2018 3:49 PM
To: Helmrick, Michael - DOT <Michael.Helmrick@dot.wi.gov>
Subject: RE: Region Wide Sign Bridge Repairs Project for 2019?

Mike,

The only structure that I believe falls within reservation limits is S-05-176 which is on I41 just south of 9th Street. There are additional structures near the Wisconsin Dells area that may be near Ho-Chunk land but I couldn't find exact reservation limits to compare.

Kyle Treml, P.E.

WisDOT Project Manager
Phone: (920) 360-7029

If this is related to a records request, please email: dotdtsdnerecords@dot.wi.gov

From: Treml, Kyle - DOT
Sent: Friday, September 14, 2018 8:25 AM
To: Helmrick, Michael - DOT <Michael.Helmrick@dot.wi.gov>
Subject: RE: Region Wide Sign Bridge Repairs Project for 2019?

This one is mine again. As soon as we have the structure locations nailed down we can determine if any fall within reservation.

Kyle Treml, P.E.

WisDOT Project Manager

Phone: (920) 360-7029

If this is related to a records request, please email: dotdtsdnerecords@dot.wi.gov

From: Helmrick, Michael - DOT

Sent: Thursday, September 13, 2018 11:57 AM

To: Trembl, Kyle - DOT <Kyle.Trembl@dot.wi.gov>

Subject: Region Wide Sign Bridge Repairs Project for 2019?

Looks like the 2019 sign bridge repair project is 1009-30-14/15. Are you coordinating this one or is someone else? Need to find out if any of the proposed structures are on the Oneida Reservation. Thanks.

Mike Helmrick

Region Environmental Coordinator

Wisconsin Department of Transportation

Northeast Region

Phone: (920) 492-7738

wisconsindot.gov

If this is related to a records request, please email: dotdtsdnerecords@dot.wi.gov

From: [Schaeve, Matthew D - DNR](#)
To: [Trembl, Kyle - DOT](#)
Cc: [Helmrick, Michael - DOT](#); [Witte, Kyle J - DOT](#); [Doperalski, James P - DNR](#); [Schiefelbein, Jeremiah J - DNR](#)
Subject: RE: Sign Bridge Repair Project Review (1009-30-14)
Date: Monday, October 08, 2018 11:37:28 AM

Hello Kyle,

I spoke with both Jay and Jim, and this work is low concern for us. In fact we feel this is a good example of a project that would fit under the Programmatic "Low Impact" Concurrence, but we realize that initiative is not fully up and running just yet. That is probably a discussion for another time.

In any case, considering this is maintenance or replacement of existing signage, we would anticipate any impacts to be minimal. Please consider this email DNR Concurrence to proceed with the work, provided the following conditions are followed:

- Keep ground disturbance to the minimum amount necessary to complete the proposed work.
- If working on bridges over water, please take measures to prevent any construction debris from falling into the waters below.
- Promptly restore any disturbed areas with appropriate erosion control BMP's following construction.

If you feel this work can be completed with those conditions, then we are fine signing off on this project now. Feel free to contact me with any questions or concerns.

Thank you,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Matt Schaeve

Bureau of Environmental Analysis and Sustainability

Wisconsin Department of Natural Resources

2984 Shawano Ave., Green Bay, WI 54313

Phone: (920) 366-1544

Fax: (920) 662-5413

E-mail: matthew.schaeve@wisconsin.gov



From: Trembl, Kyle - DOT

Sent: Monday, October 01, 2018 3:59 PM

To: Doperalski, James P - DNR <James.Doperalski@wisconsin.gov>; Schaeve, Matthew D - DNR <Matthew.Schaeve@wisconsin.gov>; Schiefelbein, Jeremiah J - DNR <Jeremiah.Schiefelbein@wisconsin.gov>

Cc: Helmrick, Michael - DOT <Michael.Helmrick@dot.wi.gov>; Trembl, Kyle - DOT <Kyle.Trembl@dot.wi.gov>; Witte, Kyle J - DOT <Kyle.Witte@dot.wi.gov>

Subject: Sign Bridge Repair Project Review (1009-30-14)

Jim/Matt/Jay,

Once again our region has maintenance level sign bridge repair project (1009-30-14) scheduled for 2019 construction. The project involves sign structure repairs in various counties across the northeast and southwest regions. Most of the work is minor and involves work on the actual structure above ground (replacing signs, tightening bolts, tensioning anchor rods, replacing hardware, etc). We are proposing to replace one foundation in the same location and possibly replacing two cantilever monotube structures in the southwest region. Any disturbance will be limited to the immediate area around the bases. The work is minimal but I still want to pass along the project information via the review form DTNR0002 along with a location map. Let me know if you have any questions or concerns. Thanks

<< File: 10093014_dtnr0002.pdf >> << File: Sign Bridge Repairs 2019.kmz >>

Kyle Trembl, P.E.

Project Manager – Fond du Lac/Sheboygan Counties

Wisconsin Department of Transportation

Northeast Region

Phone: (920) 360-7029

wisconsindot.gov

If this is related to a records request, please email: dotdtsdnerecords@dot.wi.gov

Taylor, Brian F - DOT

From: Taylor, Brian F - DOT
Sent: Wednesday, May 09, 2018 11:28 AM
To: Cloud, Lynn - DOT; Kennedy, Jason - DOT
Cc: Gupta, Shiv - DOT
Subject: RE: Sign Bridge Projects

Thank you!

Brian

From: Cloud, Lynn - DOT
Sent: Wednesday, May 09, 2018 11:26 AM
To: Taylor, Brian F - DOT <BrianF.Taylor@dot.wi.gov>; Kennedy, Jason - DOT <Jason1.Kennedy@dot.wi.gov>
Cc: Gupta, Shiv - DOT <Shiv.Gupta@dot.wi.gov>
Subject: RE: Sign Bridge Projects

BTS/CR has determined that the proposed action (Sign Bridge repair) will have no effect on any historic property (historical and/or archaeological). No additional coordination is required.

If the proposed action should change, additional coordination with WisDOT BTS/CR is required. If you have any questions please let me know.

Lynn

From: Taylor, Brian F - DOT
Sent: Tuesday, May 08, 2018 10:05 AM
To: Cloud, Lynn - DOT <Lynn.Cloud@dot.wi.gov>; Kennedy, Jason - DOT <Jason1.Kennedy@dot.wi.gov>
Cc: Taylor, Brian F - DOT <BrianF.Taylor@dot.wi.gov>; Gupta, Shiv - DOT <Shiv.Gupta@dot.wi.gov>
Subject: Sign Bridge Projects

Good Morning!

At last week's meeting, we discussed how to go about doing cultural resource screening/documentation for Sign Bridge repair projects throughout the state.

Sign Bridges are standalone structures or are attached to existing bridges.

<< File: Sign Bridges1.jpg >>

These repair projects that consist of replacing signs or tightening bolts involve no ground disturbance and crews will either shut down a lane of traffic or will stage along the paved or gravel shoulder to complete the repairs.

Please provide guidance/documentation how CRT wants to document this project.

Thank you,

Brian

Treml, Kyle - DOT

From: Schaeve, Matthew D - DNR
Sent: Friday, December 28, 2018 9:58 AM
To: Treml, Kyle - DOT
Cc: Doperalski, James P - DNR; Schiefelbein, Jeremiah J - DNR
Subject: RE: Sign Bridge Repair Project Review (1009-30-14)

Good morning Kyle,

I was able to review the areas for the five sign projects you identified below, and there are no known Northern Long-eared Bat (NLEB) maternity roost trees within 150 feet of the projects, or known hibernacula within 0.25 miles of the proposed project areas.

Have a happy new year,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Matt Schaeve

Phone: (920) 366-1544

E-mail: matthew.schaeve@wisconsin.gov

From: Treml, Kyle - DOT
Sent: Thursday, December 27, 2018 4:34 PM
To: Schaeve, Matthew D - DNR <Matthew.Schaeve@wisconsin.gov>
Cc: Doperalski, James P - DNR <James.Doperalski@wisconsin.gov>; Schiefelbein, Jeremiah J - DNR <Jeremiah.Schiefelbein@wisconsin.gov>; Treml, Kyle - DOT <Kyle.Treml@dot.wi.gov>
Subject: RE: Sign Bridge Repair Project Review (1009-30-14)

Matt,

One more request for this project. Could you review the locations with ground disturbance to verify we aren't impacting Northern Long-eared Bat habitats? There are five sign structure locations with disturbance around the bases (S-70-0158, S-59-0033, S-13-0071, S-56-0005, S-23-0002). See the attached location maps. Let me know if you need any additional information or if any location has an effect determination. Thanks

Kyle Treml, P.E.

WisDOT Project Manager

Phone: (920) 360-7029

If this is related to a records request, please email: dotdtsdnerecords@dot.wi.gov

From: Schaeve, Matthew D - DNR
Sent: Monday, October 08, 2018 11:37 AM
To: Treml, Kyle - DOT <Kyle.Treml@dot.wi.gov>
Cc: Helmrick, Michael - DOT <Michael.Helmrick@dot.wi.gov>; Witte, Kyle J - DOT <Kyle.Witte@dot.wi.gov>; Doperalski, James P - DNR <James.Doperalski@wisconsin.gov>; Schiefelbein, Jeremiah J - DNR <Jeremiah.Schiefelbein@wisconsin.gov>
Subject: RE: Sign Bridge Repair Project Review (1009-30-14)

No Effect Determination for Northern Long-Eared Bat under the Final 4(d) Rule for WisDOT NE Region projects

1009-30-14

Various

SW and NE Region Sign Bridge Repairs

Various

Project Description/Scope

Signe bridge repairs, one replacement, and one with some minor grading.

Effect determination for northern long-eared bat:

☒ No effect – the checklist below must be completed to determine whether or not the project has the potential to affect the northern long-eared bat.

☐ May affect –consultation with USFWS is required. Follow [Key to the Northern Long-Eared Bat 4\(d\) Rule for Federal Actions that May Affect Northern Long-Eared Bats](#) or [User's Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat](#). Use of this form is not acceptable.

1 – Will the Northern Long-Eared Bat be exposed directly or indirectly to the proposed action or any resulting environmental changes? (see REC for assistance in determining)

☐ Yes – You cannot proceed with a “no effect” determination, go to Final 4(d) or Programmatic (see REC)

☒ No – Proceed to question 2

2 – Does the project include tree clearing? (Note “tree” is considered to be 3” diameter or larger)

☐ Yes – You cannot proceed with a “no effect” determination, go to Final 4(d) rule coordination

☒ No – Proceed to question 3

3 – Does the project occur within 150’ of a known NLEB maternity roost? (Information from DNR)

☐ Yes – You cannot proceed with a “no effect” determination, go to Final 4(d) or Programmatic (see REC)

☒ No – Proceed to question 4

4 – Does the project occur within 0.25 miles of a known NLEB hibernaculum? (Information from DNR)

☐ Yes – You cannot proceed with a “no effect” determination, go to Final 4(d) or Programmatic (see REC)

☒ No – You can make the determination of “no effect” for NLEB

Effect determination(s) for federally listed species other than northern long-eared bat on the IPaC official species list:

- ☒ No other federally listed species
- ☐ No effect – see table below.
- ☐ May affect –consultation with USFWS is required. Use of this form is not acceptable.

Species Common Name	Species Scientific Name	Effect Determination	Justification
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.

If a determination of “no effect” can be made for both the northern long-eared bat and all other federally listed species, the Section 7 process is complete. Confirm determination decisions with REC. Place an electronic copy of this form along with the required attachments (below) in the project file and attach to the environmental document.

Required Attachments:

- ☒ WDNR NHI review: DNR response only for the counties that had more significant work.
- ☐ IPaC Official Species List: Did not run the IPaC due to the project scope.

WisDOT TMP Documentation and Request for Approval

TMP ID: 4347
Current Version

This is a request for approval of the Transportation Management Plan (TMP) for the project detailed below. Impacts resulting from project activities meet the current work zone policies of the Wisconsin Department of Transportation.

1A. Project Information:

TMP Type: Type 2
Region: NE
Local Program: No
Created Comment: Also includes southeast region. See the construction IDs.
Federal Oversight: No

Design ID: 1009-30-14
Project Title: SIGN BRIDGE REPLACEMENT
County: BROWN
Highway: Other - Various Highways
AADT:
AADT Year:

Construction ID: 1009-30-16
Project Type: Traffic Operations Signing
Project Limits: SW Regionwide Various Routes
Project Length: 0.0 Mile(s)
Project Duration: 20 Day(s)
Engineer's Estimate: less than \$1 Million
PS&E Date: 02/01/2019
LET Date: 05/14/2019
NHS Route: Yes

Construction ID: 1009-30-15
Project Type: Traffic Operations Signing
Project Limits: NE Regionwide Various Routes
Project Length: 0.0 Mile(s)
Project Duration: 20 Day(s)
Engineer's Estimate: less than \$1 Million
PS&E Date: 02/01/2019
LET Date: 05/14/2019
NHS Route: Yes

1B. Project Impacts:

Anticipated Begin: 10/2019
Anticipated End: 11/2019

OSOW Route: Yes

1C. Location:

Highway

Location #	38
Begin County:	MARINETTE
End County:	MARINETTE
Highway:	US 141 SB
Closure Type:	Mainline and Ramp
Begin Landmark:	OFF RAMP TO WIS 64 US 141 SB MARINETTE
Direction From:	Upstream from landmark
Distance From:	0.15 Mile(s)
End Landmark:	OFF RAMP TO WIS 64 US 141 SB MARINETTE
Direction From:	Upstream from landmark
Distance From:	0.15 Mile(s)
Location #	39
Begin County:	MARINETTE
End County:	MARINETTE
Highway:	US 41 NB
Closure Type:	Mainline
Begin Landmark:	HATTIE ST I-41 NB/US 41 NB MARINETTE
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
End Landmark:	CONNECTOR TO WIS 64 WB I-41 NB/US 41 NB MARINETTE
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
Location #	40
Begin County:	WINNEBAGO
End County:	WINNEBAGO
Highway:	WIS 114 EB
Closure Type:	Mainline
Begin Landmark:	ISABELLA ST WIS 114 EB WINNEBAGO
Direction From:	Downstream from landmark
Distance From:	0.07 Mile(s)
End Landmark:	ISABELLA ST WIS 114 EB WINNEBAGO
Direction From:	Downstream from landmark
Distance From:	0.07 Mile(s)
Location #	41
Begin County:	GREEN
End County:	GREEN

Highway:	WIS 11 EB
Closure Type:	Mainline
Begin Landmark:	OFF RAMP TO WIS 69 SB WIS 11 EB GREEN
Direction From:	Upstream from landmark
Distance From:	0.13 Mile(s)
End Landmark:	OFF RAMP TO WIS 69 SB WIS 11 EB GREEN
Direction From:	Upstream from landmark
Distance From:	0.13 Mile(s)
Location #	42
Begin County:	DANE
End County:	DANE
Highway:	US 151 SB
Closure Type:	Mainline
Begin Landmark:	Bike path and temp road (B-13-0356 BEGIN) US 18 WB/US 151 SB DANE
Direction From:	Upstream from landmark
Distance From:	0.08 Mile(s)
End Landmark:	Bike path and temp road (B-13-0356 BEGIN) US 18 WB/US 151 SB DANE
Direction From:	Upstream from landmark
Distance From:	0.08 Mile(s)
Location #	43
Begin County:	DANE
End County:	DANE
Highway:	US 12 WB
Closure Type:	Ramp
Begin Landmark:	OFF RAMP TO RIMROCK RD US 12 WB/US 18 WB DANE
Direction From:	Upstream from landmark
Distance From:	0.15 Mile(s)
End Landmark:	OFF RAMP TO RIMROCK RD US 12 WB/US 18 WB DANE
Direction From:	Upstream from landmark
Distance From:	0.15 Mile(s)
Location #	44
Begin County:	SAUK
End County:	SAUK
Highway:	US 12 WB
Closure Type:	Mainline
Begin Landmark:	PROGRESSIVE DR US 12 WB SAUK
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
End Landmark:	PROGRESSIVE DR US 12 WB SAUK

Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 45
Begin County: FOND DU LAC
End County: FOND DU LAC
Highway: I-41 NB
Closure Type: Mainline
Begin Landmark: Wild Goose Trail (B-20-0171 BEGIN) | I-41 NB/US 41 NB | FOND DU LAC

Direction From: Downstream from landmark
Distance From: 0.09 Mile(s)
End Landmark: Wild Goose Trail (B-20-0171 BEGIN) | I-41 NB/US 41 NB | FOND DU LAC

Direction From: Downstream from landmark
Distance From: 0.09 Mile(s)

Location # 46
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: I-41 SB
Closure Type: Mainline
Begin Landmark: MILE MARKER 113 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: MILE MARKER 113 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 47
Begin County: DANE
End County: DANE
Highway: US 12 WB
Closure Type: Ramp
Begin Landmark: ON RAMP FROM W BROADWAY | US 12 WB/US 18 WB | DANE
Direction From: Downstream from landmark
Distance From: 0.10 Mile(s)
End Landmark: ON RAMP FROM W BROADWAY | US 12 WB/US 18 WB | DANE
Direction From: Downstream from landmark
Distance From: 0.10 Mile(s)

Location # 48
Begin County: DANE
End County: DANE

Highway: US 18 EB
Closure Type: Mainline and Ramp
Begin Landmark: US 12/14/18/151 EB TO US 14 SB (W-S) | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: US 12/14/18/151 EB TO US 14 SB (W-S) | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 49
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Ramp
Begin Landmark: ON RAMP FROM FISH HATCHERY RD | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: ON RAMP FROM FISH HATCHERY RD | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 50
Begin County: SAUK
End County: SAUK
Highway: US 12 EB
Closure Type: Mainline and Ramp
Begin Landmark: I90 E | US 12 EB | SAUK
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: I90 E | US 12 EB | SAUK
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 51
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: I-41 SB
Closure Type: Ramp
Begin Landmark: TRIB LAKE BUTTE DES MORT (B-70-0274 BEGIN) | I-41 SB/US 41 SB | WINNEBAGO

Direction From:	Upstream from landmark
Distance From:	0.12 Mile(s)
End Landmark:	TRIB LAKE BUTTE DES MORT (B-70-0274 BEGIN) I-41 SB/US 41 SB WINNEBAGO
Direction From:	Upstream from landmark
Distance From:	0.12 Mile(s)
Location #	52
Begin County:	FOND DU LAC
End County:	FOND DU LAC
Highway:	I-41 SB
Closure Type:	Mainline
Begin Landmark:	ON RAMP FROM MILITARY RD I-41 SB/US 41 SB FOND DU LAC
Direction From:	Downstream from landmark
Distance From:	0.15 Mile(s)
End Landmark:	ON RAMP FROM MILITARY RD I-41 SB/US 41 SB FOND DU LAC
Direction From:	Downstream from landmark
Distance From:	0.15 Mile(s)
Location #	53
Begin County:	SHEBOYGAN
End County:	SHEBOYGAN
Highway:	WIS 42 NB
Closure Type:	Mainline
Begin Landmark:	RAB CONN FROM 42 SB TO 42 NB WIS 42 NB SHEBOYGAN
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
End Landmark:	RAB CONN FROM 42 SB TO 42 NB WIS 42 NB SHEBOYGAN
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
Location #	54
Begin County:	DANE
End County:	DANE
Highway:	US 12 WB
Closure Type:	Mainline and Ramp
Begin Landmark:	CMSTPP RR (B-13-0280 BEGIN) US 12 WB/US 18 WB DANE
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
End Landmark:	CMSTPP RR (B-13-0280 BEGIN) US 12 WB/US 18 WB DANE
Direction From:	At Landmark
Distance From:	0.00 Mile(s)

Location # 55
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Mainline and Ramp
Begin Landmark: OFF RAMP TO COUNTY D | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)
End Landmark: OFF RAMP TO COUNTY D | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)

Location # 56
Begin County: BROWN
End County: BROWN
Highway: WIS 29 WB
Closure Type: Mainline and Ramp
Begin Landmark: CONN FROM 29W TO 29 E | WIS 29 WB | BROWN
Direction From: Upstream from landmark
Distance From: 0.06 Mile(s)
End Landmark: CONN FROM 29W TO 29 E | WIS 29 WB | BROWN
Direction From: Upstream from landmark
Distance From: 0.06 Mile(s)

Location # 57
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: US 45 NB
Closure Type: Mainline
Begin Landmark: US 45 NB (BEGIN DIVIDED) | US 45 NB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: US 45 NB (BEGIN DIVIDED) | US 45 NB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 58
Begin County: OUTAGAMIE
End County: OUTAGAMIE
Highway: I-41 SB
Closure Type: Mainline and Ramp
Begin Landmark: OFF RAMP TO WIS 47 | I-41 SB/US 41 SB | OUTAGAMIE

Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: OFF RAMP TO WIS 47 | I-41 SB/US 41 SB | OUTAGAMIE
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 59
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: WIS 21 WB
Closure Type: Mainline
Begin Landmark: FOX RIVER (B-70-0091-0003 BEGIN) | WIS 21 WB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: FOX RIVER (B-70-0091-0003 BEGIN) | WIS 21 WB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 1
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: I-41 SB
Closure Type: Ramp
Begin Landmark: OFF RAMP TO WIS 44 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: Upstream from landmark
Distance From: 0.1 Mile(s)
End Landmark: OFF RAMP TO WIS 44 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: Upstream from landmark
Distance From: 0.1 Mile(s)

Location # 2
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Mainline
Begin Landmark: Seminole Highway (B-13-0664 BEGIN) | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: Downstream from landmark
Distance From: 0.03 Mile(s)
End Landmark: Seminole Highway (B-13-0664 BEGIN) | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: Downstream from landmark

Distance From:	0.03 Mile(s)
Location #	3
Begin County:	BROWN
End County:	BROWN
Highway:	I-41 SB
Closure Type:	Mainline
Begin Landmark:	COUNTY EB (LAKEVIEW DR) (B-05-0684 BEGIN) I-41 SB/US 41 SB/US 141 SB BROWN
Direction From:	Upstream from landmark
Distance From:	0.30 Mile(s)
End Landmark:	COUNTY EB (LAKEVIEW DR) (B-05-0684 BEGIN) I-41 SB/US 41 SB/US 141 SB BROWN
Direction From:	Upstream from landmark
Distance From:	0.30 Mile(s)
Location #	4
Begin County:	DOOR
End County:	DOOR
Highway:	WIS 42 SB
Closure Type:	Mainline
Begin Landmark:	EGG HARBOR RD WIS 42 SB/WIS 57 SB DOOR
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
End Landmark:	EGG HARBOR RD WIS 42 SB/WIS 57 SB DOOR
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
Location #	5
Begin County:	MANITOWOC
End County:	MANITOWOC
Highway:	WIS 32 SB
Closure Type:	Mainline
Begin Landmark:	WIS 32N (BEGIN DIVIDED) WIS 32 SB/WIS 57 SB MANITOWOC
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
End Landmark:	WIS 32N (BEGIN DIVIDED) WIS 32 SB/WIS 57 SB MANITOWOC
Direction From:	At Landmark
Distance From:	0.00 Mile(s)
Location #	6
Begin County:	DANE

End County: DANE
Highway: US 12 WB
Closure Type: Mainline and Ramp
Begin Landmark: OFF RAMP TO I-39 NB/90 WB | US 12 WB/US 18 WB | DANE
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)
End Landmark: OFF RAMP TO I-39 NB/90 WB | US 12 WB/US 18 WB | DANE
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)

Location # 7
Begin County: DANE
End County: DANE
Highway: US 151 SB
Closure Type: Mainline
Begin Landmark: PARKSIDE DR | US 151 SB | DANE
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)
End Landmark: PARKSIDE DR | US 151 SB | DANE
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)

Location # 8
Begin County: ROCK
End County: ROCK
Highway: WIS 11 WB
Closure Type: Mainline
Begin Landmark: COUNTY B | WIS 11 WB | ROCK
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: COUNTY B | WIS 11 WB | ROCK
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 9
Begin County: SAUK
End County: SAUK
Highway: WIS 13 SB
Closure Type: Mainline
Begin Landmark: US 12 EB | WIS 13 SB | SAUK
Direction From: Upstream from landmark
Distance From: 0.09 Mile(s)
End Landmark: US 12 EB | WIS 13 SB | SAUK
Direction From: Upstream from landmark

Distance From: 0.09 Mile(s)
Location # 10
Begin County: SAUK
End County: SAUK
Highway: WIS 13 NB
Closure Type: Mainline
Begin Landmark: CONNECTOR TO US 12 | WIS 13 NB | SAUK
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: CONNECTOR TO US 12 | WIS 13 NB | SAUK
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 11
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: I-41 SB
Closure Type: Mainline
Begin Landmark: ON RAMP FROM WIS 26 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: Upstream from landmark
Distance From: 0.15 Mile(s)
End Landmark: ON RAMP FROM WIS 26 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: Upstream from landmark
Distance From: 0.15 Mile(s)

Location # 12
Begin County: SAUK
End County: SAUK
Highway: US 12 WB
Closure Type: Mainline
Begin Landmark: WIS 16 WB | US 12 WB/WIS 16 WB | SAUK
Direction From: Upstream from landmark
Distance From: 0.06 Mile(s)
End Landmark: WIS 16 WB | US 12 WB/WIS 16 WB | SAUK
Direction From: Upstream from landmark
Distance From: 0.06 Mile(s)

Location # 13
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: WIS 76 NB
Closure Type: Mainline
Begin Landmark: COUNTY Y | WIS 76 NB | WINNEBAGO

Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: COUNTY Y | WIS 76 NB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 14
Begin County: COLUMBIA
End County: COLUMBIA
Highway: I-39 SB
Closure Type: Ramp
Begin Landmark: OFF RAMP TO I-90&94 WB | I-39 SB | COLUMBIA
Direction From: Downstream from landmark
Distance From: 0.1 Mile(s)
End Landmark: OFF RAMP TO I-90&94 WB | I-39 SB | COLUMBIA
Direction From: Downstream from landmark
Distance From: 0.1 Mile(s)

Location # 15
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Ramp
Begin Landmark: CMSTPP RR (B-13-0280 BEGIN) | US 12 EB/US 18 EB | DANE
Direction From: Downstream from landmark
Distance From: 0.05 Mile(s)
End Landmark: CMSTPP RR (B-13-0280 BEGIN) | US 12 EB/US 18 EB | DANE
Direction From: Downstream from landmark
Distance From: 0.05 Mile(s)

Location # 16
Begin County: MARINETTE
End County: MARINETTE
Highway: US 141 NB
Closure Type: Mainline and Ramp
Begin Landmark: OFF RAMP TO WIS 64 | US 141 NB | MARINETTE
Direction From: Upstream from landmark
Distance From: 0.07 Mile(s)
End Landmark: OFF RAMP TO WIS 64 | US 141 NB | MARINETTE
Direction From: Upstream from landmark
Distance From: 0.07 Mile(s)

Location # 17
Begin County: SHEBOYGAN

End County: SHEBOYGAN
Highway: WIS 42 NB
Closure Type: Mainline
Begin Landmark: RAB CONN FROM 42 SB TO 42 NB | WIS 42 NB | SHEBOYGAN
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: RAB CONN FROM 42 SB TO 42 NB | WIS 42 NB | SHEBOYGAN
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 18
Begin County: SAUK
End County: SAUK
Highway: US 12 EB
Closure Type: Mainline
Begin Landmark: MADISON ST | US 12 EB/WIS 60 EB | SAUK
Direction From: Downstream from landmark
Distance From: 0.01 Mile(s)
End Landmark: MADISON ST | US 12 EB/WIS 60 EB | SAUK
Direction From: Downstream from landmark
Distance From: 0.00 Mile(s)

Location # 19
Begin County: BROWN
End County: BROWN
Highway: I-41 NB
Closure Type: Mainline
Begin Landmark: 9TH ST (B-05-0635 BEGIN) | I-41 NB/US 41 NB | BROWN
Direction From: Upstream from landmark
Distance From: 0.15 Mile(s)
End Landmark: 9TH ST (B-05-0635 BEGIN) | I-41 NB/US 41 NB | BROWN
Direction From: Upstream from landmark
Distance From: 0.15 Mile(s)

Location # 20
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Ramp
Begin Landmark: OFF RAMP TO OLD SAUK RD | US 12 EB/US 14 EB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: OFF RAMP TO OLD SAUK RD | US 12 EB/US 14 EB | DANE
Direction From: At Landmark

Distance From: 0.00 Mile(s)

Location # 21

Begin County: DANE

End County: DANE

Highway: US 12 WB

Closure Type: Mainline and Ramp

Begin Landmark: CNW RR (B-13-0192 END) | US 12 WB/US 18 WB | DANE

Direction From: At Landmark

Distance From: 0.00 Mile(s)

End Landmark: CNW RR (B-13-0192 END) | US 12 WB/US 18 WB | DANE

Direction From: At Landmark

Distance From: 0.00 Mile(s)

Location # 22

Begin County: DANE

End County: DANE

Highway: WIS 113 SB

Closure Type: Mainline and Ramp

Begin Landmark: OFF RAMP TO ABERG AVE | WIS 113 SB | DANE

Direction From: Upstream from landmark

Distance From: 0.05 Mile(s)

End Landmark: OFF RAMP TO ABERG AVE | WIS 113 SB | DANE

Direction From: Upstream from landmark

Distance From: 0.05 Mile(s)

Location # 23

Begin County: SAUK

End County: SAUK

Highway: US 12 EB

Closure Type: Mainline

Begin Landmark: LUEDERS RD | US 12 EB/WIS 60 EB | SAUK

Direction From: At Landmark

Distance From: 0.00 Mile(s)

End Landmark: LUEDERS RD | US 12 EB/WIS 60 EB | SAUK

Direction From: At Landmark

Distance From: 0.00 Mile(s)

Location # 24

Begin County: DANE

End County: DANE

Highway: US 14 EB

Closure Type: Mainline

Begin Landmark: DEMING WAY | US 14 EB | DANE

Direction From: Downstream from landmark
Distance From: 0.04 Mile(s)
End Landmark: DEMING WAY | US 14 EB | DANE
Direction From: Downstream from landmark
Distance From: 0.04 Mile(s)

Location # 25
Begin County: DANE
End County: DANE
Highway: US 14 WB
Closure Type: Mainline
Begin Landmark: DEMING WAY | US 14 WB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: DEMING WAY | US 14 WB | DANE
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 26
Begin County: SAUK
End County: SAUK
Highway: US 12 WB
Closure Type: Mainline
Begin Landmark: MADISON ST | US 12 WB/WIS 60 WB | SAUK
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: MADISON ST | US 12 WB/WIS 60 WB | SAUK
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 27
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Ramp
Begin Landmark: ON RAMP FROM FISH HATCHERY RD | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: Downstream from landmark
Distance From: 0.22 Mile(s)
End Landmark: ON RAMP FROM FISH HATCHERY RD | US 12 EB/US 14 EB/US 18 EB/US 151 NB | DANE
Direction From: Downstream from landmark
Distance From: 0.22 Mile(s)

Location # 28
Begin County: DANE
End County: DANE
Highway: US 12 EB
Closure Type: Ramp
Begin Landmark: PEDESTRIAN (B-13-0616 BEGIN) | US 12 EB/US 18 EB | DANE
Direction From: Downstream from landmark
Distance From: 0.18 Mile(s)
End Landmark: PEDESTRIAN (B-13-0616 BEGIN) | US 12 EB/US 18 EB | DANE
Direction From: Downstream from landmark
Distance From: 0.18 Mile(s)

Location # 29
Begin County: DANE
End County: DANE
Highway: US 12 WB
Closure Type: Mainline and Ramp
Begin Landmark: CNW RR (B-13-0192 END) | US 12 WB/US 18 WB | DANE
Direction From: Upstream from landmark
Distance From: 0.27 Mile(s)
End Landmark: CNW RR (B-13-0192 END) | US 12 WB/US 18 WB | DANE
Direction From: Upstream from landmark
Distance From: 0.27 Mile(s)

Location # 30
Begin County: BROWN
End County: BROWN
Highway: I-41 NB
Closure Type: Mainline
Begin Landmark: MEMORIAL DR (B-05-0667 END) | I-41 NB/US 41 NB | BROWN
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: MEMORIAL DR (B-05-0667 END) | I-41 NB/US 41 NB | BROWN
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 31
Begin County: DOOR
End County: DOOR
Highway: WIS 42 NB
Closure Type: Mainline
Begin Landmark: MICHIGAN ST | WIS 42 NB/WIS 57 NB | DOOR
Direction From: At Landmark
Distance From: 0.00 Mile(s)

End Landmark: MICHIGAN ST | WIS 42 NB/WIS 57 NB | DOOR
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 32
Begin County: BROWN
End County: BROWN
Highway: I-41 NB
Closure Type: Ramp
Begin Landmark: MILE MARKER 169 | I-41 NB/US 41 NB | BROWN
Direction From: Downstream from landmark
Distance From: 0.13 Mile(s)
End Landmark: MILE MARKER 169 | I-41 NB/US 41 NB | BROWN
Direction From: Downstream from landmark
Distance From: 0.13 Mile(s)

Location # 33
Begin County: COLUMBIA
End County: COLUMBIA
Highway: US 51 NB
Closure Type: Mainline
Begin Landmark: BRADY ST | US 51 NB/WIS 16 WB | COLUMBIA
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: BRADY ST | US 51 NB/WIS 16 WB | COLUMBIA
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 34
Begin County: OUTAGAMIE
End County: OUTAGAMIE
Highway: WIS 47 SB
Closure Type: Mainline
Begin Landmark: US 41 (B-44-0035 END) | WIS 47 SB | OUTAGAMIE
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: US 41 (B-44-0035 END) | WIS 47 SB | OUTAGAMIE
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 35
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: WIS 21 EB

Closure Type: Mainline
Begin Landmark: FOX RIVER (B-70-0091-0002 BEGIN) | WIS 21 EB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: FOX RIVER (B-70-0091-0002 BEGIN) | WIS 21 EB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 36
Begin County: WINNEBAGO
End County: WINNEBAGO
Highway: I-41 SB
Closure Type: Ramp
Begin Landmark: MILE MARKER 118 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)
End Landmark: MILE MARKER 118 | I-41 SB/US 41 SB | WINNEBAGO
Direction From: At Landmark
Distance From: 0.00 Mile(s)

Location # 37
Begin County: MANITOWOC
End County: MANITOWOC
Highway: WIS 32 NB
Closure Type: Mainline
Begin Landmark: WIS 67 NB | WIS 32 NB/WIS 57 NB/WIS 67 NB | MANITOWOC
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)
End Landmark: WIS 67 NB | WIS 32 NB/WIS 57 NB/WIS 67 NB | MANITOWOC
Direction From: Upstream from landmark
Distance From: 0.05 Mile(s)

Local Road

Begin County: MANITOWOC
End County: MANITOWOC
Roadway Name: Custer Street
Begin Landmark (LR): Calumet Ave
End Landmark (LR): USH 151

Begin County: FOND DU LAC
End County: FOND DU LAC

Roadway Name: CTH D
Begin Landmark (LR): USH 151
End Landmark (LR): Miranda Way

Begin County: MANITOWOC
End County: MANITOWOC
Roadway Name: Marshall Street
Begin Landmark (LR): S 26th Street
End Landmark (LR): Calumet Ave

Begin County: DANE
End County: DANE
Roadway Name: Schroeder Road
Begin Landmark (LR): Whitney Way
End Landmark (LR): USH 14

Begin County: SAUK
End County: SAUK
Roadway Name: CTH BD
Begin Landmark (LR): USH 12
End Landmark (LR): Timothy Lane

Begin County: SAUK
End County: SAUK
Roadway Name: CTH BD
Begin Landmark (LR): USH 12
End Landmark (LR): Moon Road

Begin County: DANE
End County: DANE
Roadway Name: Deming Way
Begin Landmark (LR): USH 14
End Landmark (LR): Terrace Avenue

Begin County: DANE
End County: DANE
Roadway Name: Deming Way
Begin Landmark (LR): USH 14
End Landmark (LR): Murphy Drive

Begin County: SAUK
End County: SAUK
Roadway Name: Hillman Road
Begin Landmark (LR): USH 12

End Landmark (LR): A Street

Begin County: BROWN

End County: BROWN

Roadway Name: Lineville Road

Begin Landmark (LR): USH 41

End Landmark (LR): E Deerfield Ave

Begin County: BROWN

End County: BROWN

Roadway Name: Packerland Drive

Begin Landmark (LR): CTH RK

End Landmark (LR): STH 29

Begin County: BROWN

End County: BROWN

Roadway Name: Lineville Road

Begin Landmark (LR): W Deerfield Ave

End Landmark (LR): E Deerfield Ave

2. Brief description of work activities.

The project covers the region wide repair of overhead ancillary sign structures throughout the Northeast and Southwest regions. Repairs will be completed during non-restricted work hours as specified in the project specifications using temporary, short-term lane and shoulder closures. Structures will remain in place during repairs. See the attached draft plans for specific location repairs and traffic control requirements.

3. Briefly describe the staging planned for maintaining traffic.

Closures will be completed using temporary, short-term (<12 hour) closures with prior approval within the Lane Closure System.

4. Will there be restrictions on pedestrian/bicycle access?

☒ Yes ☐ No

If Yes:

a) Will sidewalk/multiuse path be closed?

☒ Yes ☐ No

b) Describe how pedestrian and bicyclists will be accommodated

A few sign structure repairs will occur over existing bike lanes which will cause temporary, short-term closures while those repairs are being made. (S-56-1057-6, S-56-1057-4, S-56-1042-6,

S-56-499-6, S-13-900-2, S-13-900-1, S-56-17, S-56-15, S-56-6, S-56-5, S-36-15, S-36-14-A, S-5-285)

Three structures will be repaired over existing sidewalk which may create temporary, short-term closures as well. (S-56-17, S-56-15, S-5-285)

c) Will crosswalks be provided? What is the spacing of crosswalks?

Crosswalks will not be impacted by this work.

d) Are the strategies in compliance with ADA?

Yes

5. Briefly describe how access to traffic generators, businesses, school buses, garbage trucks, postal services, and transit impacts will be mitigated (alternate routes, etc.).

a) Are the strategies in compliance with ADA?

N/A, does not apply to this project.

b) Is access to bus stops affected?

☐ Yes ☒ No

6. Will the project have lane closures?

☒ Yes ☐ No

If Yes:

a) Are there restrictions on when lane closures are allowed?

☒ Yes ☐ No

b) What hours/days are lane closures permitted?

Varies, see attached traffic control and work restriction tables in plan.

c) How were traffic counts used in determining permitted lane closure times?(For multi-lane roadways, indicate peak hour volume per direction of travel. For two-lane, two-way roadways indicate AADT)?

Work restriction hours were provided by regional traffic engineers. Lane and ramp closure rental fees were added based on impacts outside the permitted hours.

7. Please provide the following.

a) Minimum lane width to be maintained.

Only full lane closures, remaining lanes will be full width. No lane encroachments.

b) Minimum lane width plus shoulder width to accommodate OSOW.

Only full lane closures, remaining lanes will be full width. No lane encroachments. A single lane plus shoulder will always be available on mainline. Short-term ramp closures will be entered in

LCS.

c) Minimum height (if less than typically available)

N/A, does not apply to this project.

8. Will the project be detoured?

☐ Yes ☒ No

9. List major special events and holidays, and how traffic disruptions will be minimized.

All lane closures will be entered in LCS and will account for special events and holiday traffic. Work on any highway carrying mainline traffic will not be allowed during the following holiday periods:

- From noon Friday, May 24, 2019 to 6:00 AM Tuesday, May 28, 2019.
- From noon Wednesday, July 3, 2019 to 6:00 AM Monday, July 8, 2019.
- From noon Friday, August 30, 2019 to 6:00 AM Tuesday, September 3, 2019.
- From noon Friday, November 22, 2019 to 6:00 AM Monday, November 25, 2019
- From noon Wednesday, November 27, 2019 to 6:00 AM Monday, December 2, 2019.

Other special events (Green Bay Packers home games, Lambeau Field events, Madison special events, etc) will be coordinated with the regions for further work restrictions.

10. Describe the method(s) (LCAT, Quadro, FDM 11-50-30, etc.) used to estimate motorist delays or queue length (Applicable only for freeways, expressways, and signalized corridors).

Lane rental calc spreadsheets were used to determine user delay for major corridors (I-41, USH 12, I-90/94, etc). In order to be consistent it was decided that all beltline lane and ramp closures would utilize the same liquidated damages for closures outside the permitted hours. See attachments

11. What is the anticipated travel delay during the project for each impacted roadway? The Regional Work Zone Engineer can assist you in determining your delay.

If the project anticipates using Lane Rental, Enhance Liquidated Damages, Interim Liquidated Damages, or other alternative contracting method that uses road user costs, include what the delay will be from the impacts. For a Lane Rental, what will be the queuing and additional delay if the roadway is not reopen?

Temporary lane closures will be entered into LCS and allowed only during non-peak hours as provided by the regional traffic engineer.

Delay and Queue Information

#	Location Description	Delay (min)	Queue (mi)	Delay Cause
38	US 141 SB From OFF RAMP TO WIS 64 to OFF RAMP TO WIS 64	0	0.0	
39	US 41 NB From HATTIE ST to CONNECTOR TO WIS 64 WB	0	0.0	
40	WIS 114 EB From ISABELLA ST to ISABELLA ST	0	0.0	
41	WIS 11 EB From OFF RAMP TO WIS 69 SB to OFF RAMP TO WIS 69 SB	0	0.0	
42	US 151 SB From Bike path and temp road (B-13-0356 BEGIN) to Bike path and temp road (B-13-0356 BEGIN)	0	0.0	
43	US 12 WB At OFF RAMP TO RIMROCK RD	5	0.0	Lane Closure
44	US 12 WB From PROGRESSIVE DR to PROGRESSIVE DR	0	0.0	
45	I-41 NB From Wild Goose Trail (B-20-0171 BEGIN) to Wild Goose Trail (B-20-0171 BEGIN)	0	0.0	
46	I-41 SB From MILE MARKER 113 to MILE MARKER 113	0	0.0	
47	US 12 WB At ON RAMP FROM W BROADWAY	5	0.0	Lane Closure
48	US 18 EB From US 12/14/18/151 EB TO US 14 SB (W-S) to US 12/14/18/151 EB TO US 14 SB (W-S)	5	0.0	Lane Closure
49	US 12 EB At ON RAMP FROM FISH HATCHERY RD	5	0.0	Lane Closure
50	US 12 EB From I90 E to I90 E	15	0.0	Lane Closure
51	I-41 SB At TRIB LAKE BUTTE DES MORT (B-70-0274 BEGIN)	0	0.0	
52	I-41 SB From ON RAMP FROM MILITARY RD to ON RAMP FROM MILITARY RD	5	0.0	Lane Closure
53	WIS 42 NB From RAB CONN FROM 42 SB TO 42 NB to RAB CONN FROM 42 SB TO 42 NB	0	0.0	

54	US 12 WB From CMSTPP RR (B-13-0280 BEGIN) to CMSTPP RR (B-13-0280 BEGIN)	5	0.0	Lane Closure
55	US 12 EB From OFF RAMP TO COUNTY D to OFF RAMP TO COUNTY D	5	0.0	Lane Closure
56	WIS 29 WB From CONN FROM 29W TO 29 E to CONN FROM 29W TO 29 E	0	0.0	
57	US 45 NB From US 45 NB (BEGIN DIVIDED) to US 45 NB (BEGIN DIVIDED)	0	0.0	
58	I-41 SB From OFF RAMP TO WIS 47 to OFF RAMP TO WIS 47	0	0.0	
59	WIS 21 WB From FOX RIVER (B-70-0091-0003 BEGIN) to FOX RIVER (B-70-0091-0003 BEGIN)	0	0.0	
1	I-41 SB At OFF RAMP TO WIS 44	0	0.0	
2	US 12 EB From Seminole Highway (B-13-0664 BEGIN) to Seminole Highway (B-13-0664 BEGIN)	5	0.0	Lane Closure
3	I-41 SB From COUNTY EB (LAKEVIEW DR) (B-05-0684 BEGIN) to COUNTY EB (LAKEVIEW DR) (B-05-0684 BEGIN)	0	0.0	
4	WIS 42 SB From EGG HARBOR RD to EGG HARBOR RD	0	0.0	
5	WIS 32 SB From WIS 32N (BEGIN DIVIDED) to WIS 32N (BEGIN DIVIDED)	0	0.0	
6	US 12 WB From OFF RAMP TO I-39 NB/90 WB to OFF RAMP TO I-39 NB/90 WB	5	0.0	Lane Closure
7	US 151 SB From PARKSIDE DR to PARKSIDE DR	0	0.0	
8	WIS 11 WB From COUNTY B to COUNTY B	0	0.0	
9	WIS 13 SB From US 12 EB to US 12 EB	0	0.0	
10	WIS 13 NB From CONNECTOR TO US 12 to CONNECTOR TO US 12	0	0.0	
11	I-41 SB From ON RAMP FROM WIS 26 to ON RAMP FROM WIS 26	0	0.0	
12	US 12 WB From WIS 16 WB to WIS 16 WB	0	0.0	
13	WIS 76 NB From COUNTY Y to COUNTY Y	0	0.0	
14	I-39 SB At OFF RAMP TO I-90&94 WB	0	0.0	

15 US 12 EB At CMSTPP RR (B-13-0280 BEGIN)	5	0.0	Lane Closure
16 US 141 NB From OFF RAMP TO WIS 64 to OFF RAMP TO WIS 64	0	0.0	
17 WIS 42 NB From RAB CONN FROM 42 SB TO 42 NB to RAB CONN FROM 42 SB TO 42 NB	0	0.0	
18 US 12 EB From MADISON ST to MADISON ST	0	0.0	
19 I-41 NB From 9TH ST (B-05-0635 BEGIN) to 9TH ST (B-05-0635 BEGIN)	0	0.0	
20 US 12 EB At OFF RAMP TO OLD SAUK RD	5	0.0	Lane Closure
21 US 12 WB From CNW RR (B-13-0192 END) to CNW RR (B-13-0192 END)	5	0.0	Lane Closure
22 WIS 113 SB From OFF RAMP TO ABERG AVE to OFF RAMP TO ABERG AVE	0	0.0	
23 US 12 EB From LUEDERS RD to LUEDERS RD	0	0.0	
24 US 14 EB From DEMING WAY to DEMING WAY	0	0.0	
25 US 14 WB From DEMING WAY to DEMING WAY	0	0.0	
26 US 12 WB From MADISON ST to MADISON ST	0	0.0	
27 US 12 EB At ON RAMP FROM FISH HATCHERY RD	5	0.0	Lane Closure
28 US 12 EB At PEDESTRIAN (B-13-0616 BEGIN)	5	0.0	Lane Closure
29 US 12 WB From CNW RR (B-13-0192 END) to CNW RR (B-13-0192 END)	5	0.0	Lane Closure
30 I-41 NB From MEMORIAL DR (B-05-0667 END) to MEMORIAL DR (B-05-0667 END)	0	0.0	
31 WIS 42 NB From MICHIGAN ST to MICHIGAN ST	0	0.0	
32 I-41 NB At MILE MARKER 169	0	0.0	
33 US 51 NB From BRADY ST to BRADY ST	0	0.0	

34 WIS 47 SB From US 41 (B-44-0035 END) to US 41 (B-44-0035 END)	0	0.0
35 WIS 21 EB From FOX RIVER (B-70-0091-0002 BEGIN) to FOX RIVER (B-70-0091-0002 BEGIN)	0	0.0
36 I-41 SB At MILE MARKER 118	0	0.0
37 WIS 32 NB From WIS 67 NB to WIS 67 NB	0	0.0

12. Identify alternate routes anticipated, and any alternate route improvements or signing planned.

Anticipated alternate routes were used for lane rental calculations. See the attached spreadsheet for exact route at each structure. No improvements or signing is planned for alternate routes.

13. Are any intersection traffic control changes proposed such as temporary signals, temporary changes to an all way stop, etc?

No

14. Are there anticipated traffic impacts from the proposed project on other roads/routes in the region/corridor? Identify other projects in the corridor (only if delay anticipated on this project).

Construction may overlap with other projects. The following articles are included in the special provisions to account for these impacts;

Work by Others.

Some maintenance, utility, or construction work may be under way on portions of highways on which work is indicated under this contract. When maintenance, utility, or construction is in progress or will be performed that affects the work under the contract, the engineer shall determine if the contract shall defer installation to a later date, or eliminate the installation from this contract.

Beltline project 1206-06-78 (Seminole Hwy to I-39/90) has an April 2019 let with a completion date of 10/18/2019.

Beltline project 5300-00-71 (Mineral Point Rd to Whitney Way) has an April 2019 let with a completion date of 8/31/2019.

I-39/90 project 1007-10-01 (CTH AB to US 12/18) has a June 2019 let with completion in November 2019.

Verona Road project ongoing. Coordination required for S-13-0377.

15. Does the project affect other regions/states?

☒ Yes ☐ No

If Yes:

Explain coordination and mitigation strategies:

Project is a multi-regionwide project effecting both the northeast and southwest regions. Northeast region is managing the project. Both regional traffic engineers provided input for traffic restriction hours.

16. Check mitigation strategies planned

STRATEGY	COMMENTS
<input type="checkbox"/> Public information campaigns	
<input checked="" type="checkbox"/> Off-peak lane closures	Hourly restrictions provided by regional traffic engineer.
<input type="checkbox"/> Temporary widening to maintain traffic lanes	
<input checked="" type="checkbox"/> Changeable message signs (PCMS)	As noted in the plans and special provisions.
<input checked="" type="checkbox"/> Ramp closures	Ramp closures with PCMS advanced warning.
<input type="checkbox"/> Temporary signals/timing revisions	
<input checked="" type="checkbox"/> Coordination with adjacent projects	
<input checked="" type="checkbox"/> Innovative contracting, (lane rental, A+B, etc)	Lane rental damages are being applied to major corridors (I-41, USH 12, etc)
<input type="checkbox"/> Temporary Emergency Pullouts	
<input type="checkbox"/> Motorist service patrols	
<input checked="" type="checkbox"/> Nighttime Work	Anticipating most work to be completed overnight.
<input type="checkbox"/> Enhanced Traffic control devices (Wet reflective pavement marking, temp concrete barrier, etc)	
<input type="checkbox"/> Reduced regulatory speed limit (requires declaration approved by Regional Traffic Engineer, & by BTO if 65-mph hwy or higher speed facility.)	

17. Describe public information strategies planned (coordinate this activity with your Regional Communications Manager).

N/A, does not apply to this project.

18. Describe incident management strategies planned.

N/A, does not apply to this project.

19. Describe how transit impacts will be mitigated.

N/A, does not apply to this project.

Attachments:

Attachments for TMP ID 4347 are listed below.

[f] 10093015_lane rental calcs.xlsm
 [f] 10093016_lane rental calcs.xlsm
 [f] 10093015_pln.pdf
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*** [F] represents folder and [f] represents file.**

Approvals: