



Wisconsin Department of Transportation

March 25, 2024

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

NOTICE TO ALL CONTRACTORS:

Telephone: (608) 266-1631
Facsimile (FAX): (608) 266-8459

Proposal #07: 1060-10-71
IH 94 East West Freeway
CTH T and CTH JJ (B-67-240,245)
IH 94
Waukesha County

1060-47-70
IH 94 East West Freeway
STH 83 to STH 16
IH 94
Waukesha County

1330-47-71
C Delafield, State Road 83
Nagawaukee Park and Ride Lot
Off Sys
Waukesha County

2788-03-70
C Waukesha Meadowbrook Road
Rolling Ridge Dr to IH 94 EB Ramps
STH 318
Waukesha County

Letting of April 9, 2024

This is Addendum No. 01, which provides for the following:

Plan Sheets:

Added Plan Sheets – 1060-47-70	
Plan Sheet	Plan Sheet Title (brief description of why sheet was added)
773A	S-67-19
773B	S-67-39
773C	S-67-40
773D	S-67-41
773E	S-67-42
773F	S-67-239
773G	S-67-240
773H	S-67-245
773I	S-67-308
773J	S-67-406
773K-773T	S-67-420
773U	S-67-602

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

END OF ADDENDUM

GENERAL NOTES:

- DRAWINGS SHALL NOT BE SCALED
- ALTERNATE DESIGNS ARE NOT ALLOWED
- UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.
- ALL H.S. BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATIONS OF STRUCTURE COMPONENTS.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL REPAIRS.
- EXISTING SIGN DESIGN AREA FROM HS5 IS 340 S.F.
- THE ANCHOR ROD NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- REMOVE GROUT PAD AND AS STATED BELOW, REMOVE ALL OF THE EXISTING GROUT PADS AND ANY SURROUNDING DEGRADED CONCRETE DOWN TO UNDISTURBED FIRM SUBGRADE. REPAIR AND FINISH TO MATCH EXISTING. INSTALL RODDENT SCREEN AROUND THE ANCHOR ROD LEVELING NUTS.
- U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.

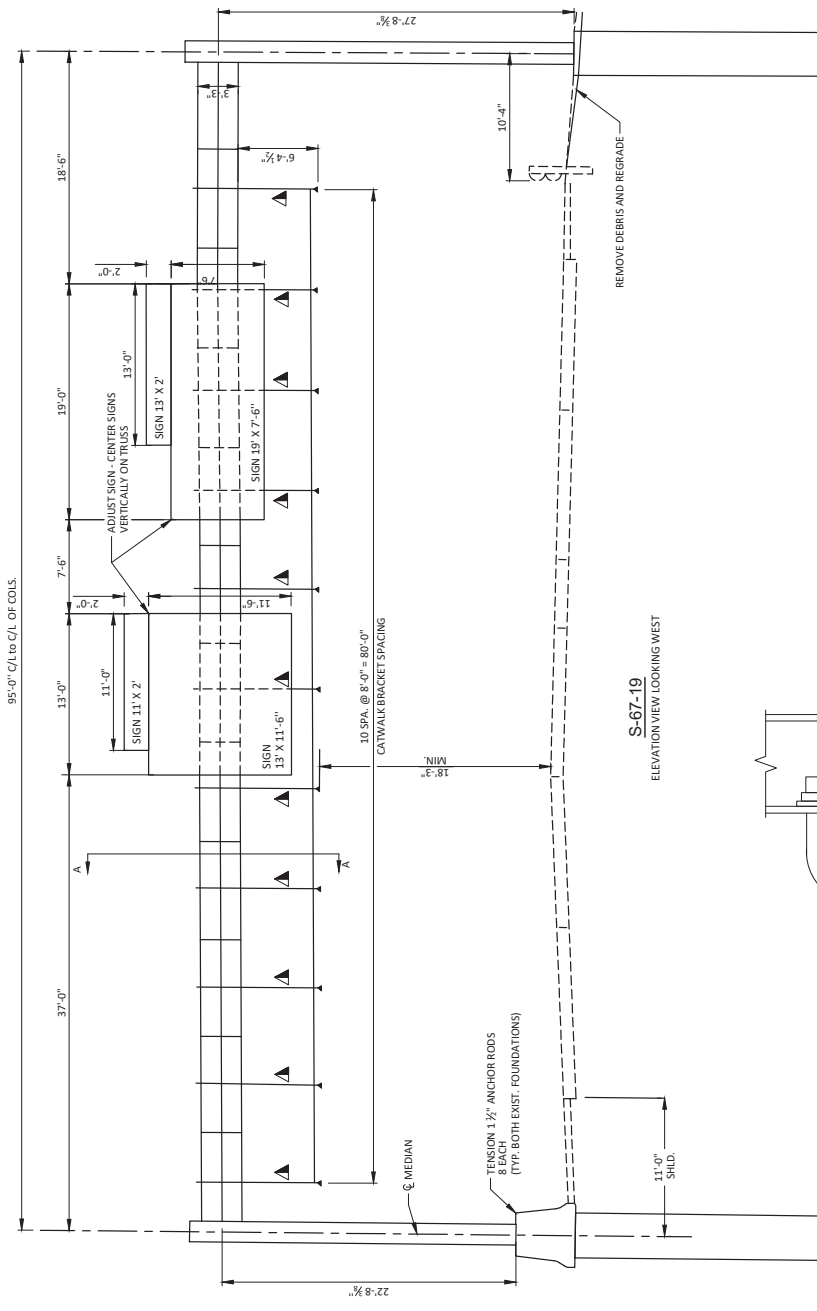
TRAFFIC DATA:

IH94 A.A.D.T. = 88,500 (2019)
IH94 A.A.D.T. = 96,465 (2045)
R.D.S. = 70 MPH

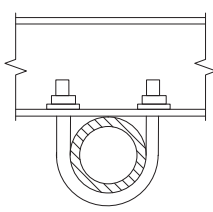
Material Properties

- STRUCTURAL ANGLES
PLATE AND BARS - ASTM A709 GRADE 36 $f_y = 36,000$ psi
HIGH STRENGTH BOLTS - A325 $f_y = 92,000$ psi
ANCHOR RODS - ASTM F1554 GRADE 55 $f_y = 55,000$ psi
HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
WASHERS FOR ANCHOR RODS - ASTM F436
STAINLESS U-BOLTS AND LOCKWASHERS - ASTM 304
STAINLESS HEX NUTS - ASTM A276

Addendum No. 01
ID 1060-47-70
Added Sheet 773A
March 25, 2024



S-67-19
ELEVATION VIEW LOOKING WEST

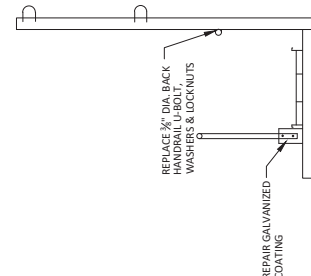


U-BOLT CONNECTION DETAIL

▲ - REPLACE BACK HANDRAIL U-BOLTS

TOTAL ESTIMATED QUANTITIES		
ITEM NUMBER	BID ITEM	TOTAL
SPV.0860.001	TENSION ANCHOR RODS	EA 16
SPV.0860.002	REMOVE GROUT PAD	EA 2
SPV.0860.003	REMOVE DEBRIS AND REGRADE	EA 1
SPV.0860.004	ADJUST SIGN	EA 2
SPV.0860.005	U-BOLTS	EA 16
SPV.0165.001	REPAIR GALVANIZED COATING	SF 10

CUT SECTION A-A



DESIGN CONSULTANT
TOM ROMNESKO, PE
(808) 565-1370

BRIDGE OFFICE CONTACT
MARCON BOKH, PE
(808) 281-0261

NO.	DATE	REVISION	BY
 DAAR ENGINEERING, INC. 1000 W. WISCONSIN AVENUE MADISON, WI 53706 (608) 261-0261			
DEPARTMENT OF TRANSPORTATION CHIEF STRUCTURAL DESIGN ENGINEER			DATE 02/13/24
STRUCTURE S-67-19			
#19 RW AT GORE TO 5TH IS NB			
COUNTY	WALWESHA	TOWN/UNINCORPORATED	
DESIGN SPEC.			
APPROVED	DATE	BY	TR.
DESIGNED	DATE	BY	TR.
CHECKED	DATE	BY	TR.
SHEET 1 OF 1 773A			

STATE PROJECT NUMBER
1060-47-70

GENERAL NOTES:

- DRAWINGS SHALL NOT BE SCALED
- ALTERNATE DESIGNS ARE NOT ALLOWED
- ALL HS, BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATIONS OF STRUCTURE COMPONENTS.
- EXISTING SIGN DESIGN AREA FROM HS65 IS 220 S.F.
- STEEL ANCHOR ROD NUTS AND WASHERS SHALL BE ASTM A-576
- ANCHOR ROD NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- REMOVE ALL TRACES OF GRIT AND DUST FROM THE BLASTING SURFACE OF ALL STRUCTURE COMPONENTS.
- REMOVE ALL TRACES OF RUST AND OIL FROM ALL GALVANIZING MATERIAL AS SOON AS POSSIBLE AFTER CLEANING AND BEFORE VISIBLE OXIDATION OF THE SURFACE OCCURS. THE CONTRACTOR SHALL NOT WAIT TO APPLY THE COATING MORE THAN 8 HOURS AFTER CLEANING.

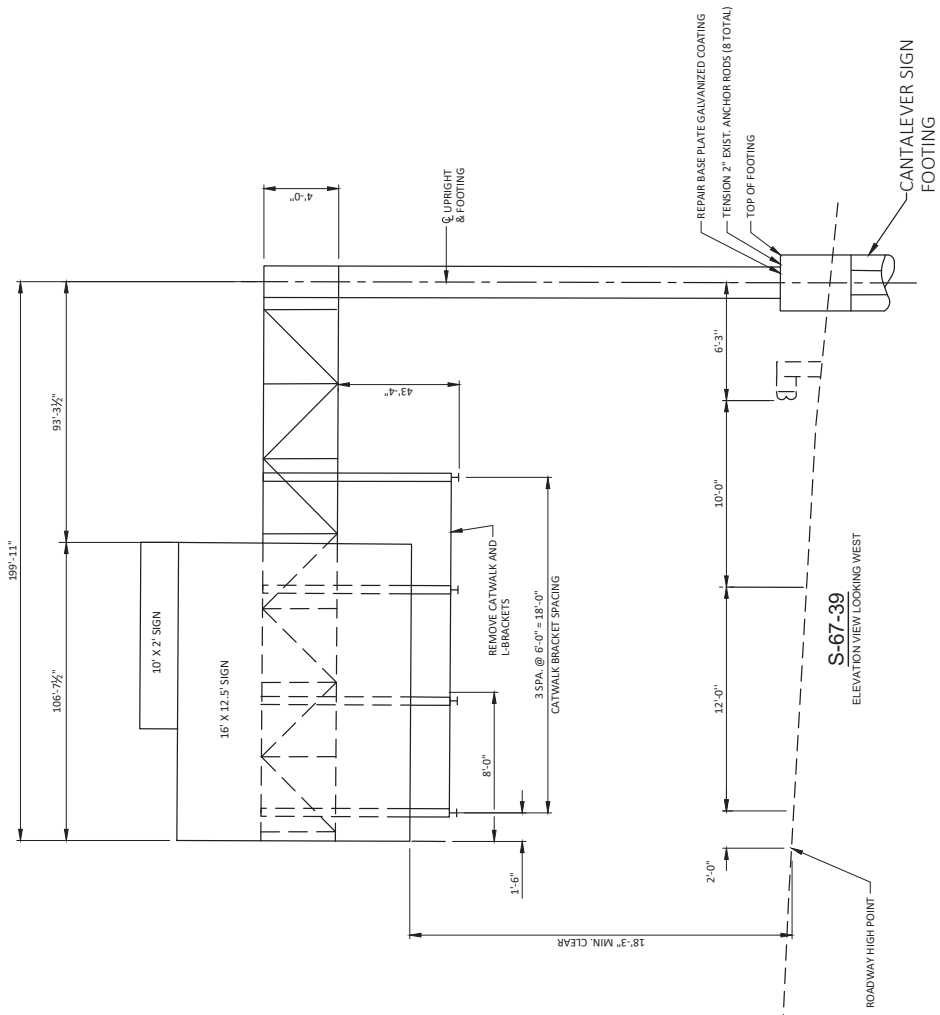
TRAFFIC DATA:

IHS4 A.A.D.T. = 88,500 (2019)
IHS4 A.A.D.T. = 96,465 (2043)
R.O.S. = 70 MPH

MATERIAL PROPERTIES

- STRUCTURAL ANGLES
PLATE AND BARS - ASTM A709 GRADE 36
fy = 36,000 psi
- HIGH STRENGTH BOLTS - A325
fy = 92,000 psi
- ANCHOR RODS - ASTM F1554 GRADE 55
fy = 55,000 psi
- HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
- WASHERS FOR ANCHOR RODS - ASTM F436

**Addendum No. 01
ID 1060-47-70
Added Sheet 773B
March 25, 2024**



TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	BID ITEM	UNIT	TOTAL
SPV.0060.001	TENSION ANCHOR ROD	EA	8
SPV.0060.006	REMOVE CATWALK	EA	1
SPV.0165.001	REPAIR GALVANIZED COATING	SF	8



DESIGN CONSULTANT
TOM ROMNESKO, PE
(808) 566-1370

BRIDGE OFFICE CONTACT
MARCUS BOK, PE
(808) 281-2261

GENERAL PLAN
SHEET 1 OF 1
773B

NO.	DATE	REVISION	BY

DAAR
DESIGN & ENGINEERING, INC.
1000 W. WISCONSIN AVENUE
MADISON, WI 53703
PH: 608.261.1200
FAX: 608.261.1201

ACCEPTED
DATE: 02/13/24

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
CHIEF STRUCTURAL DESIGN ENGINEER

STRUCTURE S-67-39

HS 94 RW, 1/4 MILE E. OF CHG
COUNTY: WAUKESHA
TOWNSHIP: WAUKESHA
DESIGN SPEC.:
ASPH/ALD BRIDGE DESIGN SPECIFICATIONS
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DRAWN BY: [Signature]
SCALE: [Signature]

STATE PROJECT NUMBER
1060-47-70

GENERAL NOTES:

- DRAWINGS SHALL NOT BE SCALED
- ALTERNATE DESIGNS ARE NOT ALLOWED
- ALL HS, BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATIONS OF STRUCTURE COMPONENTS.
- EXISTING SIGN DESIGN AREA FROM HS IS 260 S.F.
- STEEL ANCHOR ROD NUTS AND WASHERS SHALL BE ASTM A-576.
- ANCHOR ROD NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- REMOVE ALL TRACES OF GRIT AND DUST FROM THE BLASTING SURFACE BEFORE GALVANIZED COATING. APPLY A COMPATIBLE GALVANIZING MATERIAL AS SOON AS POSSIBLE AFTER CLEANING AND BEFORE VISIBLE DEGRADATION OF THE SURFACE OCCURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO APPLY THE COATING MORE THAN 8 HOURS AFTER CLEANING.

TRAFFIC DATA:

IH94 A.A.D.T. = 88,500 (2019)
IH94 A.A.D.T. = 96,465 (2043)
R.D.S. = 70 MPH

MATERIAL PROPERTIES

- CONCRETE MASONRY $f_c = 3,500$ psi
- HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ psi
- STRUCTURAL ANGLES PLATE AND BARS - ASTM A709 GRADE 36 $f_y = 36,000$ psi
- HIGH STRENGTH BOLTS - A325 $f_y = 92,000$ psi
- ANCHOR RODS - ASTM F1554 GRADE 55 $f_y = 55,000$ psi
- HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
- WASHERS FOR ANCHOR RODS - ASTM F436

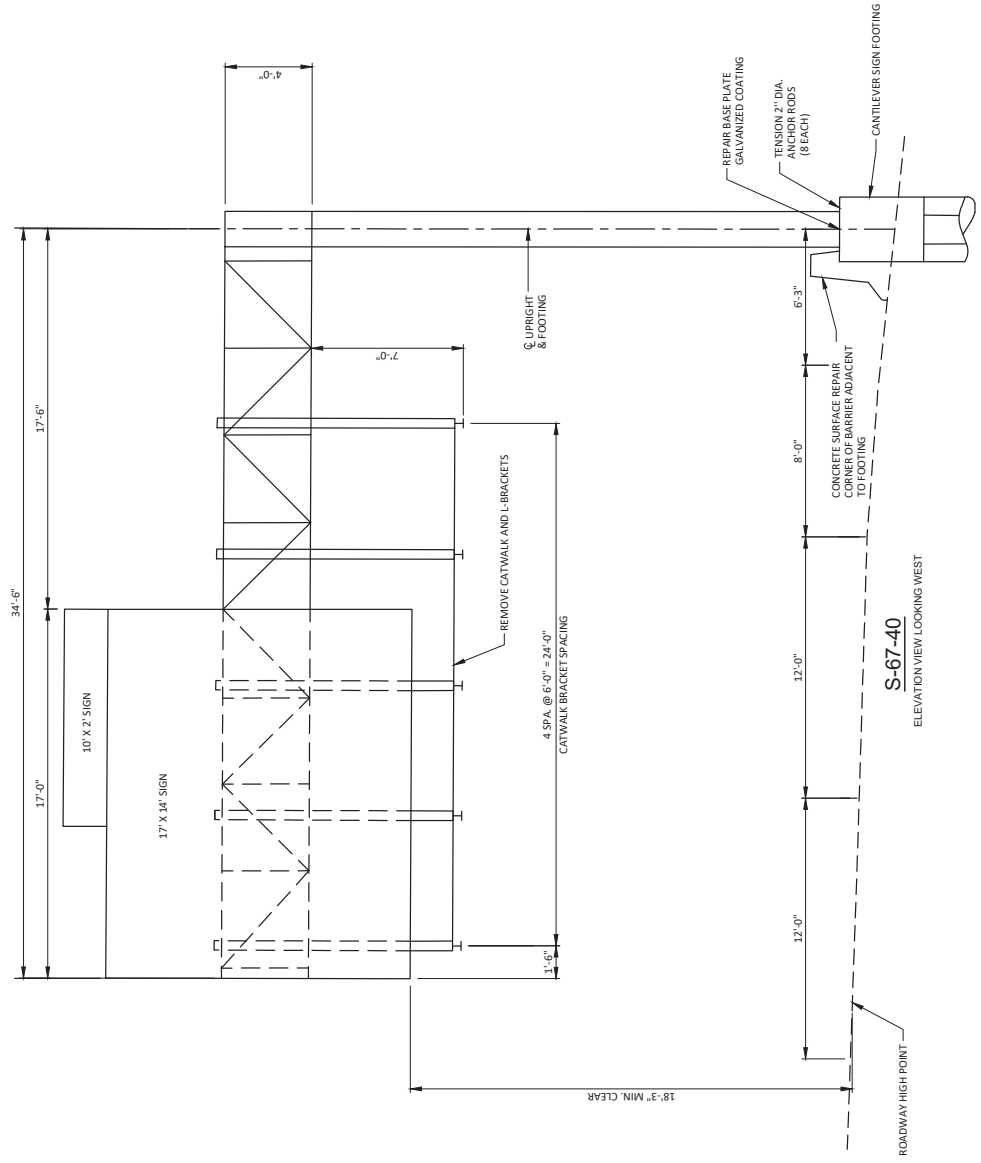
Addendum No. 01
ID 1060-47-70
Added Sheet 773C
March 25, 2024



DESIGN CONSULTANT
TOM ROMENSKO, PE
(808) 565-1370

BRIDGE OFFICE CONTACT
MARCONSON, PE
(808) 281-0261

TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	BID ITEM	UNIT	TOTAL
500.1500	CONCRETE SURFACE REPAIR	SF	5
SPV.0862.001	TENSION ANCHOR ROD	EA	8
SPV.0860.006	REMOVE CATWALK	EA	1
SPV.0165.001	REPAIR GALVANIZED COATING	SF	8



S-67-40
ELEVATION VIEW LOOKING WEST

STATE PROJECT NUMBER
1060-47-70

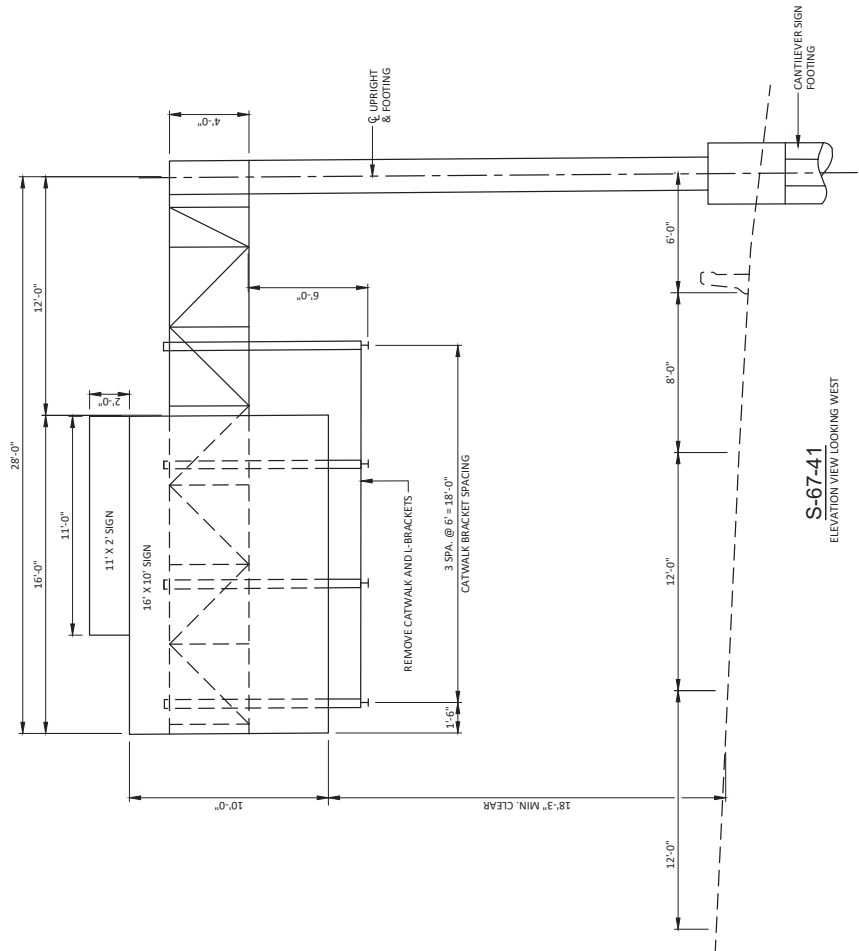
GENERAL NOTES:

DRAWINGS SHALL NOT BE SCALED
EXISTING SIGN DESIGN AREA FROM HSIS IS 190 S.F.

TRAFFIC DATA:

1194 AADT = 88,500 (2019)
1194 AADT = 96,465 (2043)
R.D.S. = 70 MPH

Addendum No. 01
ID 1060-47-70
Added Sheet 773D
March 25, 2024



S-6741
ELEVATION VIEW LOOKING WEST

TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	BID ITEM	UNIT	TOTAL
SPV.0060.006	REMOVE CATWALK	EA	1



DESIGN CONSULTANT
TOM ROMNESKO, PE
(808) 568-1370

BRIDGE OFFICE CONTACT
MARGONSON, PE
(808) 281-0261

GENERAL PLAN
SHEET 1 OF 1
773D

NO.	DATE	REVISION	BY
		DAAR ENGINEERING, INC. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED DATE: 02/13/24	

STRUCTURE S-67-41

1/4 MI. W. 1/4 MI. E. OF CR155
COUNTY: WAUKESHA
TOWN: WAUKESHA
DESIGN SPEC.
ASSISTED BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY: TR
DRAWN BY: KAC
CHECKED BY: KAC
TR

STATE PROJECT NUMBER
1060-47-70

GENERAL NOTES:

DRAWINGS SHALL NOT BE SCALED
ALTERNATE DESIGNS ARE NOT ALLOWED
ALL HS, BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATIONS OF STRUCTURE COMPONENTS.
EXISTING SIGN DESIGN AREA FROM HSIS IS 199 S.F.
STEEL ANCHOR ROD NUTS AND WASHERS SHALL BE ASTM A-576.

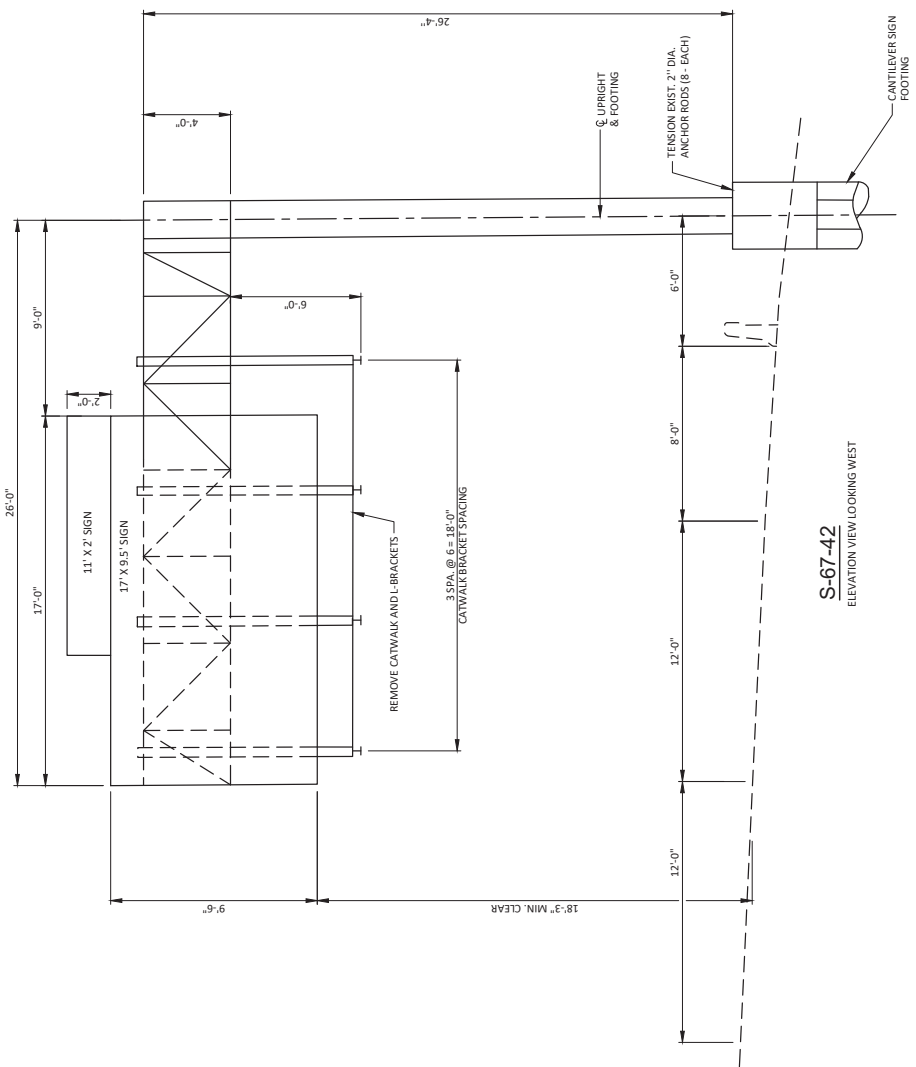
TRAFFIC DATA:

HH94 A.A.D.T. = 88,500 (20319)
HH94 A.A.D.T. = 96,465 (20431)
R.D.S. = 70 mph

MATERIAL PROPERTIES

STRUCTURAL ANGLES
PLATE AND BARS - ASTM A709 GRADE 36 fy = 36,000 psi
HIGH STRENGTH BOLTS - A325 fy = 92,000 psi
ANCHOR RODS - ASTM F1554 GRADE 55 fy = 55,000 psi
HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
WASHERS FOR ANCHOR RODS - ASTM F436

Addendum No. 01
ID 1060-47-70
Added Sheet 773E
March 25, 2024



S-67-42
ELEVATION VIEW LOOKING WEST

TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	UNIT	TOTAL	
SPV.0060.001	EA	8	
SPV.0060.006	EA	1	

NO.	DATE	REVISION	BY
		DATE OF ADOPTION	
		DATE	



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED
SJR
02/13/24
DATE

STRUCTURE S-67-42
1/4" = 1/8" HORIZ. SCALE
COUNTY: WAUKESHA
DESIGN SPEC.
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: [Signature]

GENERAL PLAN
SHEET 1 OF 1
773E



DESIGN CONSULTANT
TOM ROMENSKO, PE
(808) 566-1370
BRIDGE OFFICE CONTACT
MARGON BOKN, PE
(808) 281-0261

STATE PROJECT NUMBER
1060-47-70

GENERAL NOTES:

- DRAWINGS SHALL NOT BE SCALED
- ALTERNATE DESIGNS ARE NOT ALLOWED
- ALL HS BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATIONS OF STRUCTURE COMPONENTS.
- EXISTING SIGN DESIGN AREA FROM HS16 58.5 S.F.
- ANCHOR ROD NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.

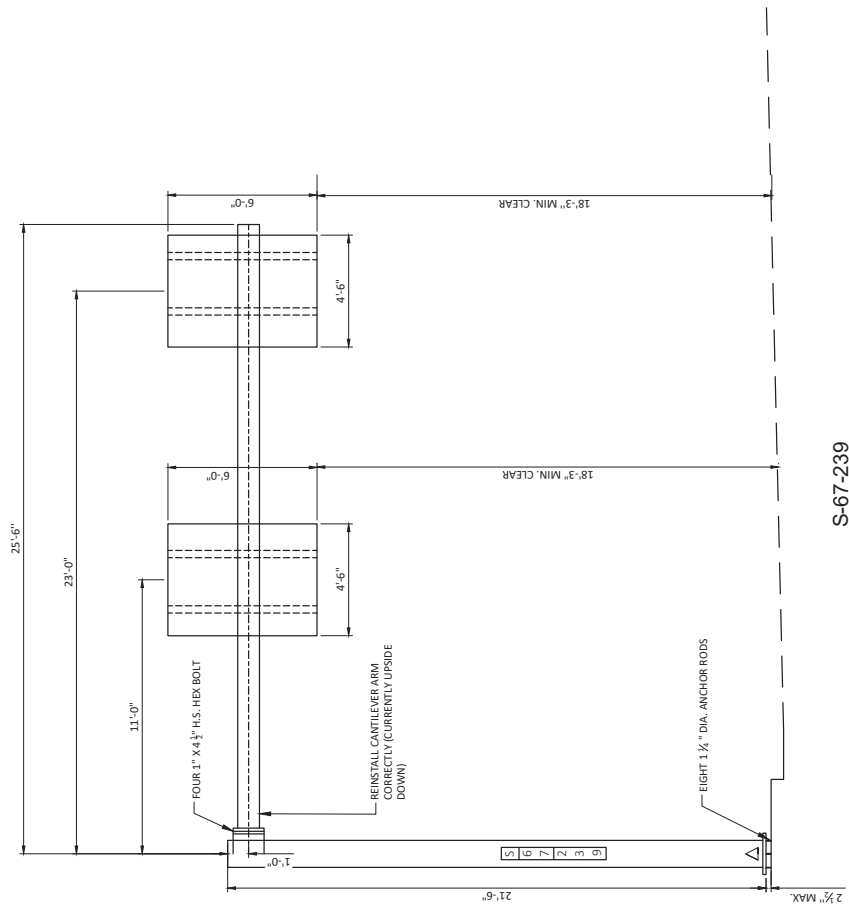
TRAFFIC DATA:

STH 318 A A.D.T. = 3,600 (2019)
R.O.S. = 40 MPH

MATERIAL PROPERTIES

- STRUCTURAL ANGLES
PLATE AND BARS - ASTM A709 GRADE 36
fy = 36,000 psi
- HIGH STRENGTH BOLTS - A325
fy = 92,000 psi
- ANCHOR RODS - ASTM F1554 GRADE 55
fy = 55,000 psi
- HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
- WASHERS FOR ANCHOR RODS - ASTM F436

Addendum No. 01
ID 1060-47-70
Added Sheet 773F
March 25, 2024



S-67-239
ELEVATION VIEW (LOOKING NORTH)

- △ REMOVE MAST ARM AND COLUMN, LOWER BASE PLATE TO 2 1/2" MAX. FROM TOP OF CONCRETE TO BOTTOM OF BASE PLATE. REMOVE LOCK WASHERS.

TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	BID ITEM	UNIT	TOTAL
SPV.0060.001	TENSION ANCHOR ROD	EA	8
SPV.0060.007	LOWER STRUCTURE	EA	1
SPV.0060.008	RE-INSTALL TRUSS/ARM	EA	1

NO.	DATE	REVISION	BY

DAK ENGINEERING, INC.
 1000 W. UNIVERSITY AVENUE
 MADISON, WI 53706
 (608) 261-2081

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 ACCEPTED:
 CHIEF STRUCTURAL DESIGN ENGINEER
 DATE: 02/13/24

STRUCTURE S-67-239
 5TH ILL. TURN TO I-94 ON RAMP
 COUNTY: WAUKESHA
 TOWN: WISCONSIN
 DESIGN SPEC.: WISCONSIN
 ASSIGNED BRIDGE DESIGN SPECIFICATIONS:
 DESIGNED BY: [] DRAWN BY: [] CHECKED BY: [] TR: []

GENERAL PLAN
 SHEET 1 OF 1
773F



DESIGN CONSULTANT
 TOM ROMENSKO, PE
 (608) 566-1370

BRIDGE OFFICE CONTACT
 MARCONI, PE
 (608) 281-0261

STATE PROJECT NUMBER
1060-47-70

GENERAL NOTES:

DRAWINGS SHALL NOT BE SCALED
 ALTERNATE DESIGNS ARE NOT ALLOWED
 ALL HS BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.
 CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO FABRICATIONS OF STRUCTURE COMPONENTS.
 EXISTING SIGN DESIGN AREA FROM HBS IS 28 S.F.
 ANCHOR ROD NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 532 OF THE WISDOT STANDARD SPECIFICATIONS.

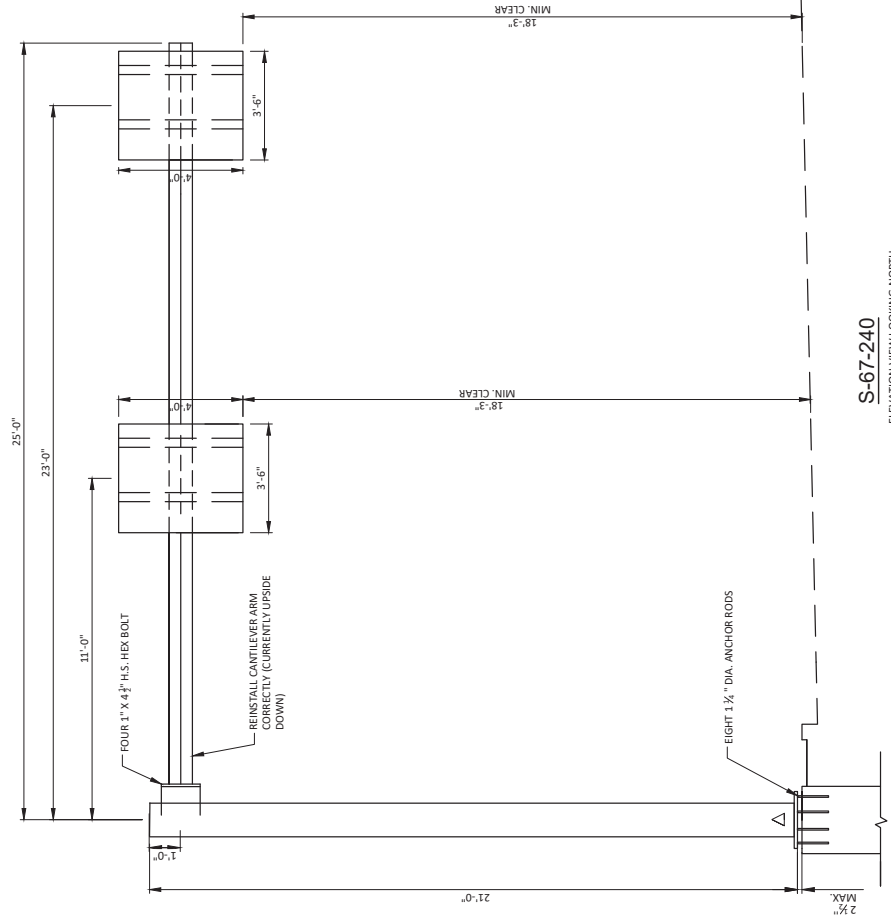
TRAFFIC DATA:

STH 318 A.A.D.T. = 9,400 (2019)
 R.D.S. = 40 MPH
 IH94 A.A.D.T. = 88,500 (2019)
 IH94 A.A.D.T. = 96,465 (2043)
 R.D.S. = 70 MPH

MATERIAL PROPERTIES

STRUCTURAL ANGLES
 PLATE AND BARS - ASTM A709 GRADE 36
 $f_y = 36,000$ psi
 HIGH STRENGTH BOLTS - A325
 $f_y = 92,000$ psi
 ANCHOR RODS - ASTM F1554 GRADE 55
 $f_y = 55,000$ psi
 HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
 WASHERS FOR ANCHOR RODS - ASTM F436

Addendum No. 01
 ID 1060-47-70
 Added Sheet 773G
 March 25, 2024



S-67-240
ELEVATION VIEW LOOKING NORTH

△ REMOVE WAST ARM AND COLUMN. LOWER BASE PLATE TO 2 1/2" MAX FROM TOP OF CONCRETE TO BOTTOM OF BASE PLATE. REMOVE LOCK WASHERS.

TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	BID ITEM	UNIT	TOTAL
SPV.0060.001	TENSION ANCHOR ROD	EA	8
SPV.0060.007	LOWER STRUCTURE	EA	1
SPV.0060.008	RE-INSTALL TRUSS ARM	EA	1



DESIGN CONSULTANT
 TOM ROMENSKO, PE
 (808) 566-1370

BRIDGE OFFICE CONTACT
 MARCON BOKH, PE
 (808) 281-0261

GENERAL PLAN

SHEET 1 OF 1
 773G

NO.	DATE	REVISION	BY



ACCEPTED
 CHIEF STRUCTURAL ENGINEER
 DATE: 02/13/24

STRUCTURE S-67-240

3713 S.E. 17TH TURN TO R4194 W
 COUNTY: WAUKESHA
 TOWN: FARMERSVILLE
 DESIGN SPEC: ASHFIELD BRIDGE DESIGN SPECIFICATIONS
 DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature] TR: [Signature]

STATE PROJECT NUMBER

1060-47-70

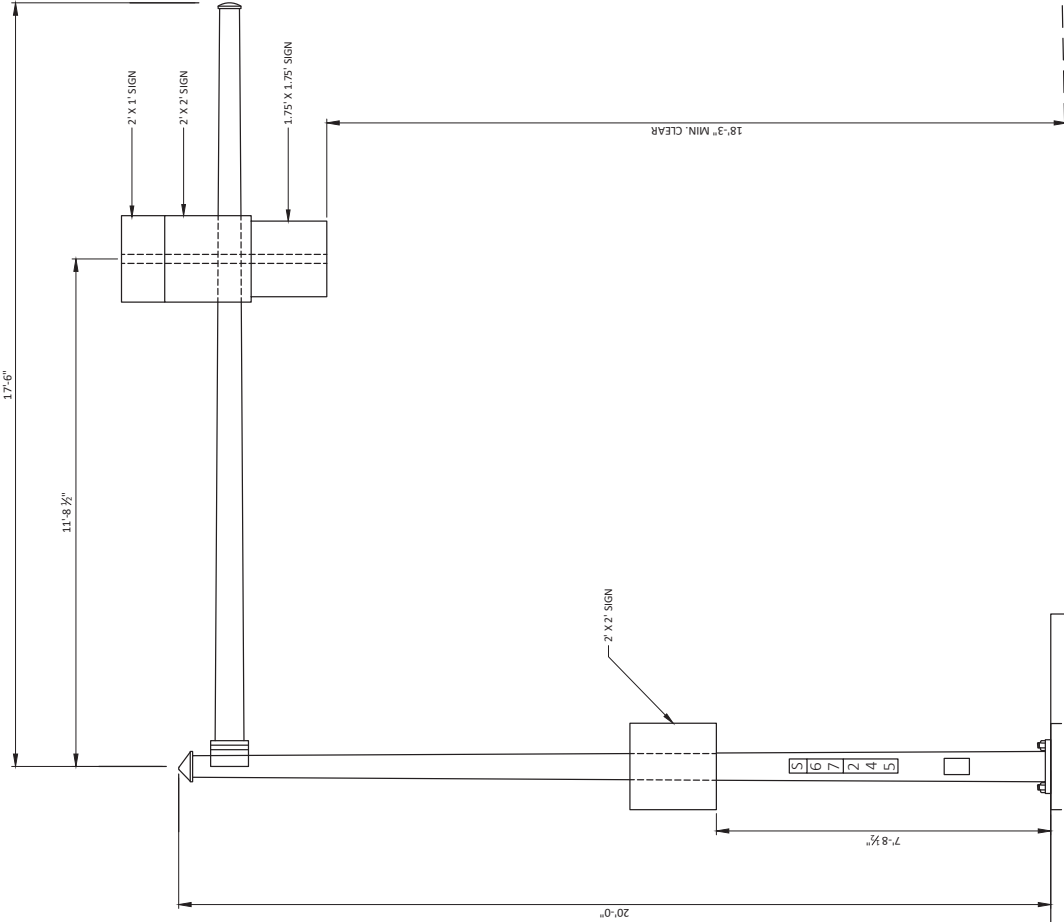
GENERAL NOTES:

DRAWINGS SHALL NOT BE SCALED
ALTERNATE DESIGNS ARE NOT ALLOWED
ALL HS, BOLTS, NUTS, AND WASHERS SHALL BE
STANDARD SECTION S32 OF THE WRODOT
STANDARD SPECIFICATIONS.
CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO
FABRICATIONS OF STRUCTURE COMPONENTS.
EXISTING SIGN DESIGN AREA FROM IBSIS IS 14 S.F.

TRAFFIC DATA:

STH 318 A.A.D.T. = 3,600 (2019)
R.D.S. = 40 MPH
I.S.P. = 100
R.D.S. = 66.465 (2043)
R.D.S. = 70 MPH

Addendum No. 01
ID 1060-47-70
Added Sheet 773H
March 25, 2024



S-67-245
ELEVATION VIEW LOOKING SOUTH

TOTAL ESTIMATED QUANTITIES			
ITEM NUMBER	BID ITEM	UNIT	TOTAL
SPV.0080.009	VERTICAL SIGN SUPPORT	EA	1

NO.	DATE	REVISION	BY
 DAAR ENGINEERING, INC. 1100 WEST WASHINGTON AVENUE MADISON, WI 53706 PHONE: 608.261.1200 FAX: 608.261.1201			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED THOMAS J. ROMNESKO CHIEF STRUCTURES DESIGN ENGINEER			DATE 02/13/24
STRUCTURE S-67-245			
CITY: S.S.B. AT TURN LANE TO THE SILEB			
COUNTY: WAUKESHA		TOWN: WASHINGTON FORTWORTH	
DESIGN SPEC.: ASHFO RD BRIDGE ELEVATION SPECIFICATIONS			
DESIGNED BY:	DRAWN BY:	CHECKED BY:	TR.
MC	TR	MC	TR
SHEET 1 OF 1 773H			



DESIGN CONSULTANT
TOM ROMNESKO, PE
(608) 566-1370

BRIDGE OFFICE CONTACT
MARCUS BOKK, PE
(608) 281-0261

STATE PROJECT NUMBER

1060-47-70

GENERAL NOTES:

DRAWINGS SHALL NOT BE SCALED

ALL HS, BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 6411 OF THE WISDOT STANDARD SPECIFICATIONS.

EXISTING SIGN DESIGN AREA FROM HS IS 220 S.F.

CATWALK REPAIR INCLUDES REPLACING THE GRATING AND SAFETY CHAINS.

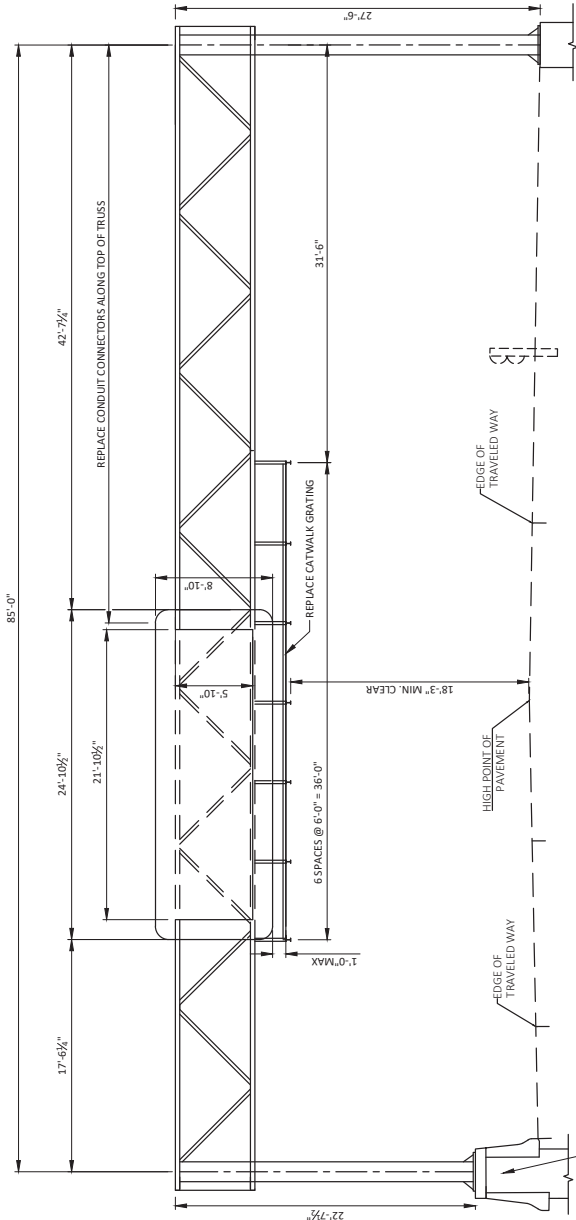
TRAFFIC DATA:

IH 94 A.A.D.T. = 79,900 (2019)

IH 94 A.A.D.T. = 96,465 (2043)

R.D.S. = 70 MPH

Addendum No. 01
ID 1060-47-70
Added Sheet 773J
March 25, 2024



S-67-406

ELEVATION VIEW LOOKING EAST

TOTAL ESTIMATED QUANTITIES		
ITEM NUMBER	BID ITEM	UNIT TOTAL
SPV.0080.11	CATWALK REPAIR	EA 1
SPV.0080.12	REPLACE CONDUIT CONNECTOR	EA 6



DESIGN CONSULTANT
TOM ROMENSKO, PE
(808) 568-1370

BRIDGE OFFICE CONTACT
MARCUSON, PE
(808) 281-0281

PLOT BY: TOM ROMENSKO
PLOT DATE: 6/29/2022 2:11:38 PM
PLOT SCALE: 0.388126

NO.	DATE	REVISION	BY



8

8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED: *[Signature]* SPR DATE: 02/17/23
CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE S-67-406

IH 94 WB AT GORE TO CH S EXIT
COUNTY: WAUKESHA
DESIGN SPEC: TOWN/PROJECT/ROUTE
ASSISTED BRIDGE DESIGN SPECIFICATIONS
DESIGNED BY: MC TR BY: MC TR
DRAWING CADD: MC TR

GENERAL PLAN
SHEET 1 OF 1
773J

LAYOUT: 1 - GENERAL PLAN

STATE PROJECT NUMBER
1060-47-70

TRAFFIC DATA

IH 94
AADT (2043) 96,465
DESIGN SPEED 70 MPH

LIST OF DRAWINGS:

- 1. GENERAL NOTES AND DESIGN DATA
- 2. GENERAL LAYOUT

LIST OF STANDARD DESIGN DRAWINGS

- 3. I. 4-CHORD TRUSS FULL SPAN TRUSS DETAILS
- 4. II. 4-CHORD TRUSS FULL SPAN CONNECTIONS 1
- 5. III. 4-CHORD TRUSS FULL SPAN CONNECTIONS 2
- 6. IV. 4-CHORD TRUSS FULL SPAN CONNECTIONS 3
- 7. V. 4-CHORD TRUSS FULL SPAN CONNECTIONS 4
- 8. VI. 4-CHORD TRUSS FULL SPAN ELECTRICAL DETAILS
- 9. VII. 4-CHORD TRUSS FULL SPAN FOUNDATIONS 1
- 10. VIII. 4-CHORD TRUSS FULL SPAN FOUNDATIONS 2

Addendum No. 01
ID 1060-47-70
Added Sheet 773K
March 25, 2024

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
ALTERNATE DESIGNS ARE NOT ALLOWED.
COORDINATES ON THE PLANS ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCS). WALKERSHA COUNTY ZONE, MAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).
ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.
SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "TRUSS FULL SPAN 4-CHORD (TYPE)" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE TRUSS FULL SPAN 4-CHORD (TYPE) SIGN STRUCTURE FROM THE ROADWAY.
FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12A.4.3.
CATWALKS ARE USED ON 4-CHORD STRUCTURES CARRYING DMS SIGNS. CATWALKS SHALL BE IDENTIFIED TO THE BID ITEM "TRUSS FULL SPAN 4-CHORD (TYPE)" FOR EACH DMS SIGN STRUCTURE IN THE PLAN SET.
UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.
WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.
WELD TEST AS PER AWS D1.1.
SEE SIGN PLATE NO. A4-6, A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.
SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE E/C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.
THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON THE SHOP DRAWINGS.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING PROVIDED THAT THE CASING IS PROPERLY BRACED AND SHIELDING IS PROVIDED TO PROTECT THE DRILLING SHAFT 36-INCH.

DESIGN DATA

DESIGNED ACCORDING TO THE ASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.
FOUNDATION DESIGNED ACCORDING TO THE ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.
DEAD LOAD: W.T. OF DMS SIGN AND SUPPORTING STRUCTURE.
WIND PRESSURE: 120 MPH (3.5 SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.
FOUNDATION DESIGN: (1700 YEAR MEAN RECURRENCE INTERVAL)
WIND COMPONENTS: NORMAL TRANSVERSE
LOAD CASE 1: 0.00 1.00
LOAD CASE 2: 0.00 1.00
LOAD CASE 3: 0.75 0.75
LOAD COMBINATIONS:
STRENGTH (1.25DC + 1.6L)
EXTREME (1.1DC + 1.0W + 1.0 ICE)
SERVICE (1.0DC + 1.0W)
FATIGUE: 1.0 TRG (ACTUAL WIND GUST VIBRATION)
1.0 TRG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY $f_c = 3,500$ PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ psi
STRUCTURAL ANGLES, PLATES, AND BARS - ASTM A709 GRADE 36 $f_y = 36,000$ psi
CHORDS & COLUMN PIPE - ASTM 500 GRADE C $f_y = 46,000$ psi
HIGH STRENGTH BOLTS - A325 $f_y = 92,000$ psi
ANCHOR RODS - ASTM F1554 GRADE 55 $f_y = 55,000$ psi
HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
WASHERS FOR ANCHOR RODS = ASTM F436

FOUNDATION DATA

ALL DRILLED SHAFTS AND SIGN SUPPORTS ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR STEEL SOILS SHALL BE AT LEAST 24" (6 INCHES) DEEPER THAN OR EQUAL TO 24" (6 INCHES) OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. ACTUAL WATER LEVEL AT THE SITE MAY VARY. THE REGION GEOTECHNICAL ENGINEER SHALL BE CONSULTED TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEM	UNIT	S-67-420
531.2096	DRILLING SHAFT 36-INCH	LF	88
531.6120.001	FOUNDATION TWO-SHAFT TYPE II S-67-420	EA	1
532.6120.001	TRUSS FULL SPAN 4-CHORD TYPE II S-67-420	EA	1

STRUCTURE DATA

SIGN STR S-67-420
ACTUAL SIGN AREA 193 SF
ACTUAL SIGN DEPTH 7'-10"
DMS WEIGHT 3,300 LB.
TYPE II
STANDARD DESIGN TRUSS



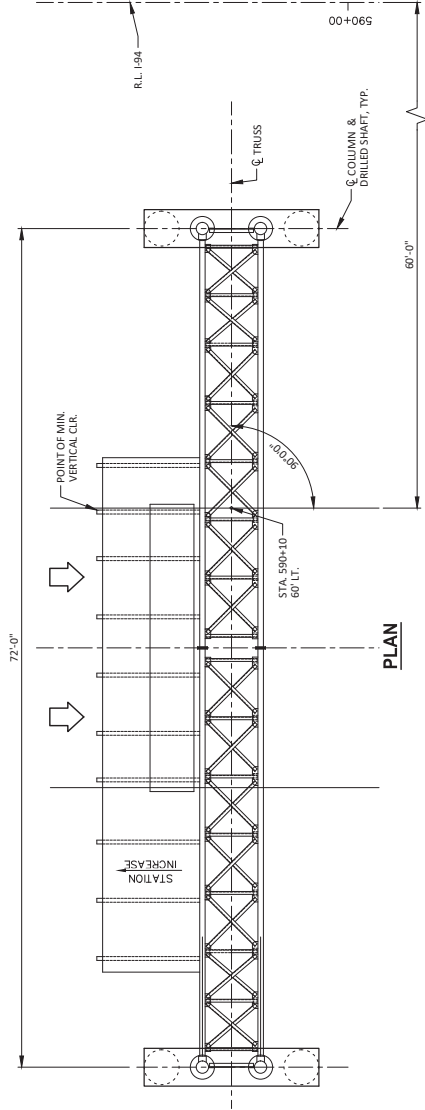
NO.	DATE	REVISION	BY
		DAAR ENGINEERING, INC. www.daarcorp.com 414-225-9817	
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED 02/13/24 UNIT	

STRUCTURE S-67-420	
COUNTY	WALKERSHA
DESIGN SPEC.	CONTRACTOR'S DESIGN
DESIGNED BY	DESIGNED BY
TR	TR
PLANS	PLANS
MC	MC
TR	TR

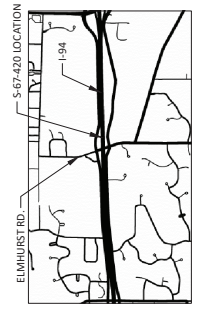
GENERAL NOTES & DESIGN DATA	
SHEET 1 OF 10	
773K	

DESIGN CONSULTANT
TOM ROMNESKO, PE
(608) 596-1370
BRIDGE OFFICE CONTACT
AARON BONK, PE
(608) 281-0281

STATE PROJECT NUMBER
1060-47-70



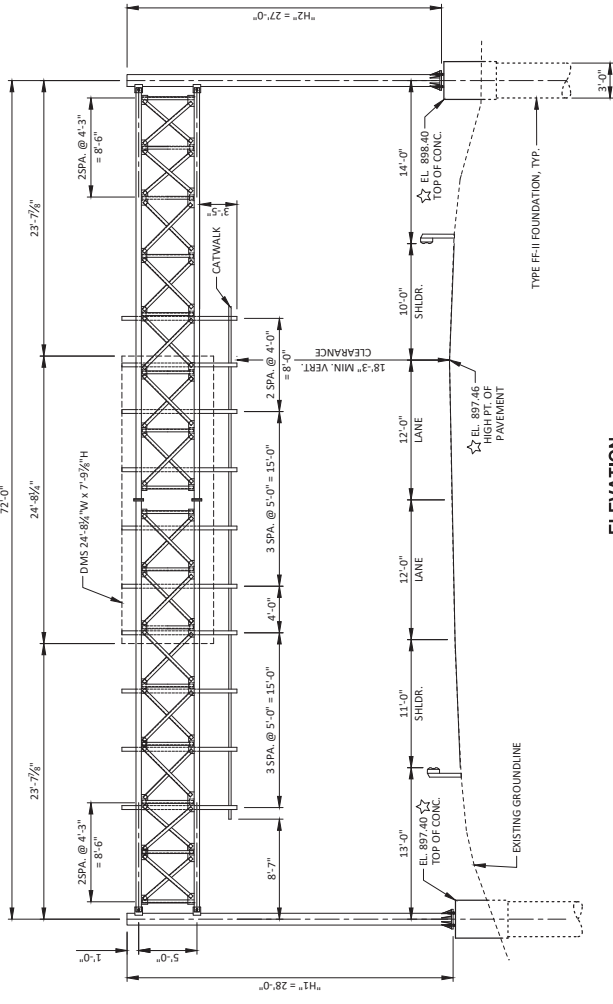
PLAN



LOCATION MAP

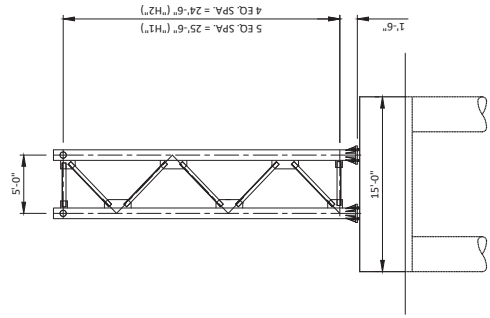
NOTE
POINT OF MIN. VERTICAL CLEARANCE
STA. 590+10, 60.00' LEFT
EL. 897.46

LEGEND
☆ ELEVATIONS GIVEN ALONG C. TRUSS
⊗ SIGN NUMBERS (PERMANENT SIGNING PLAN)



ELEVATION

I-94 WESTBOUND - EAST OF ELMHURST ROAD
STA. 590+10
(LOOKING UPSTATION AT BACK OF SIGN)



END VIEW
(LOOKING NORTH)

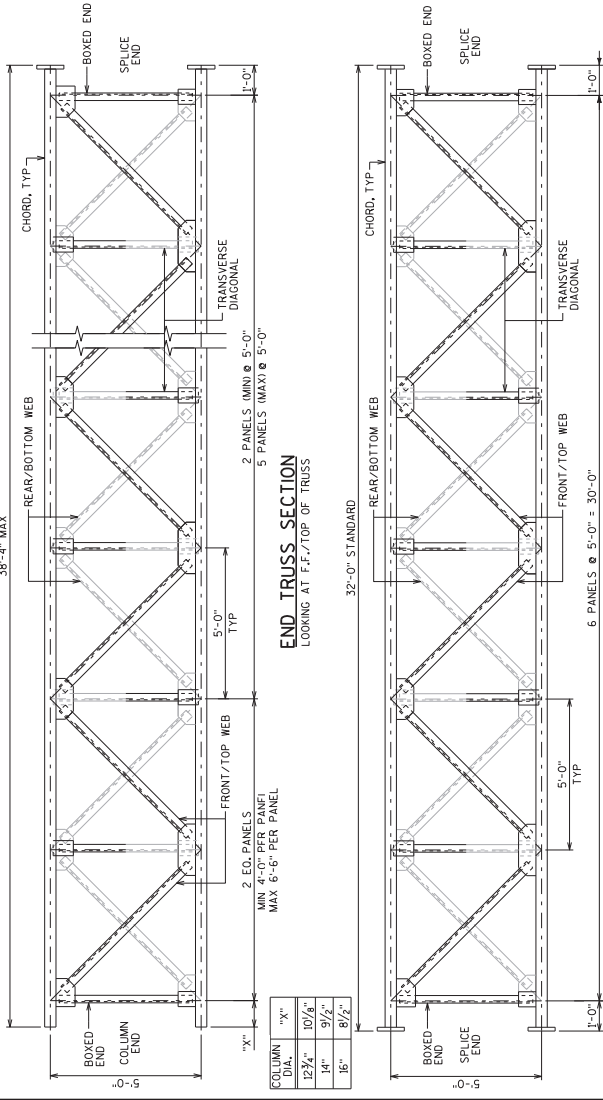
Addendum No. 01
ID 1060-47-70
Added Sheet 773L
March 25, 2024

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE S-67-420			
DRAWN BY		PLANS	
TR		C&D, MC	
SHEET 2 OF 10			
GENERAL LAYOUT			
773L			

\$\$\$...plattigdate...\$\$\$

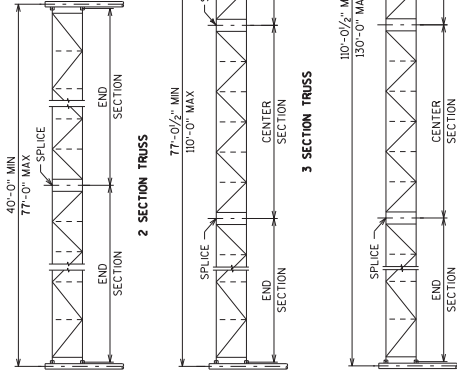
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STATE PROJECT NUMBER
STANDARD



END TRUSS SECTION
LOOKING AT F.F./TOP OF TRUSS

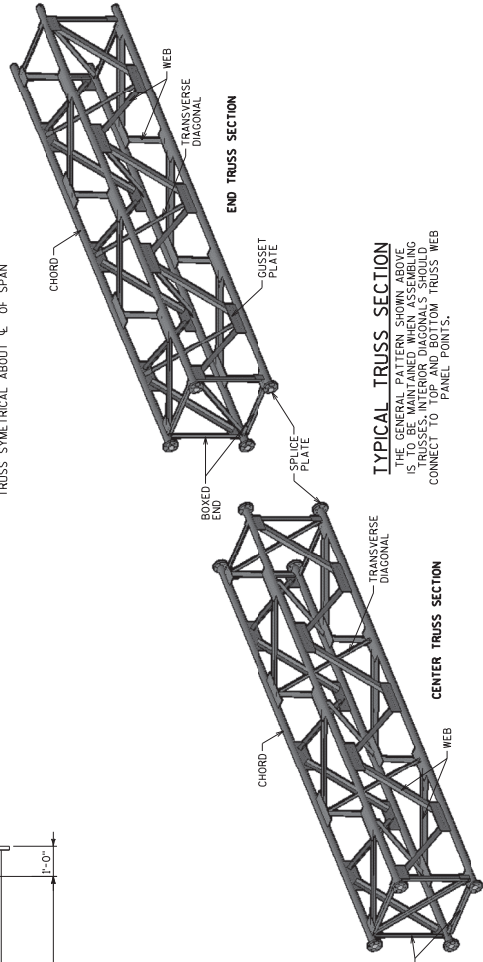
CENTER TRUSS SECTION
LOOKING AT F.F./TOP OF TRUSS



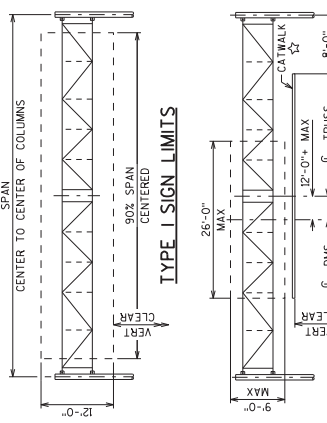
2 SECTION TRUSS

3 SECTION TRUSS

4 SECTION TRUSS
TRUSS SYMMETRICAL ABOUT C_g OF SPAN



TYPICAL TRUSS SECTION
THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES. INTERIOR DIAGONALS SHOULD CONNECT TO PANEL POINTS.



INTERPOLATE FOR VALUES NOT SHOWN

CAMBER VALUES	
SPAN "L"	DMS "y"
60'-0"	1"
82'-0"	1 1/4"
102'-0"	1 7/8"
118'-0"	2 1/8"
130'-0"	2 3/4"

CAMBER DIAGRAM

CAMBER SHALL BE BUILT INTO THE TRUSS DURING FABRICATION. SHIM PLATES BETWEEN TRUSS SECTIONS TO CREATE CAMBER SHALL NOT BE ALLOWED.

FULL SPAN 4-CHORD TRUSS MEMBER TABLE

STANDARD DESIGN TRUSS	TYPE I SIGN AREA (F ²)	DMS AREA (F ²)	MAXIMUM SPAN RANGE	CHORD OUTER DIA. X THK	WEB W X D X THK	TRANSVERSE DIAGONAL W X D X THK	SPICE PLATE OUTER DIA. X THK	CHORD SPICE NO. 74 BOLTS
I	648	234	60'-0"	5.563" X 0.258"	L3X3X3/4	L3X3X3/4	1" X 1/2"	8
II	885	234	82'-0"	5.563" X 0.375"	L3X3X3/4	L3X3X3/4	1 1/8" X 1/2"	8
III	1022	234	102'-0"	5.563" X 0.500"	L3X3X3/4	L3X3X3/4	1 1/2" X 1/2"	8
IV	1232	234	114'-0"	6.625" X 0.375"	L4X4X3/2	L3X3X3/4	1'-0 3/8" X 1/2"	8
V	1404	234	130'-0"	6.625" X 0.500"	L4X4X3/2	L3X3X3/4	1'-0 3/8" X 1/2"	8

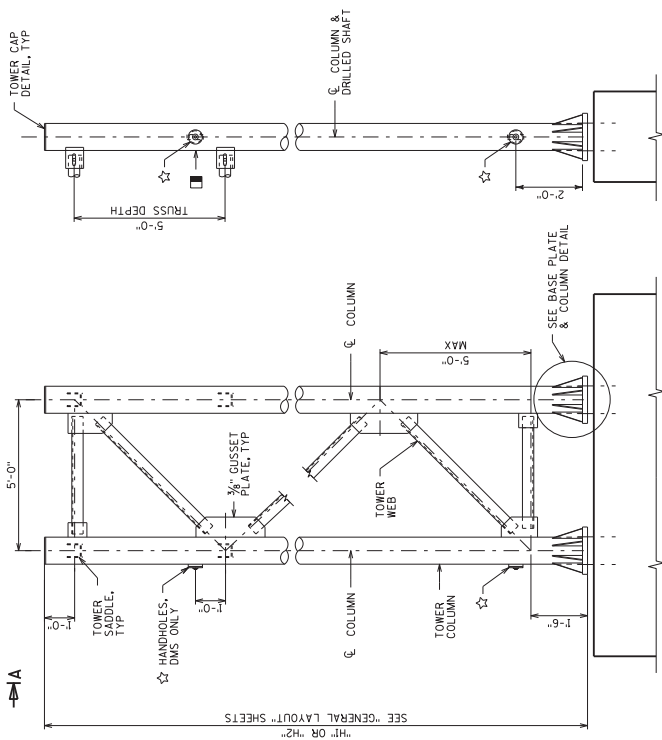
Addendum No. 01
ID 1060-47-70
Added Sheet 773M
March 25, 2024

LEGEND
☆ FOR OSS WITH DMS ONLY. SEE 'CATWALK DETAILS' SHEET

NO. DATE REVISION BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION
UPDATED: MARCH 2021
BY: [BRN] [BOS] [C.D.] [BOS]
4-CHORD TRUSS FULL SPAN TRUSS DETAILS
SHEET 1 OF VIII
773M

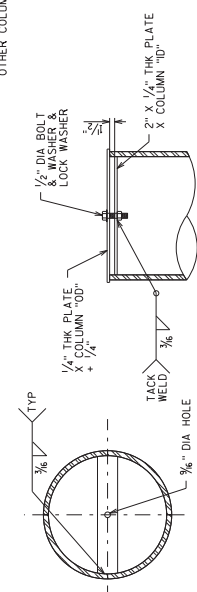
STATE PROJECT NUMBER
STANDARD

Addendum No. 01
ID 1060-47-70
Added Sheet 773N
March 25, 2024

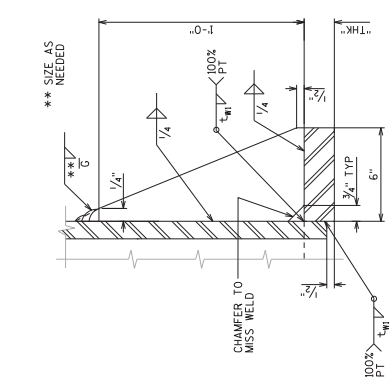


SECTION A-A
LOOKING AT F.F. OF STRUCTURE
OTHER COLUMN TRUSS SIMILAR

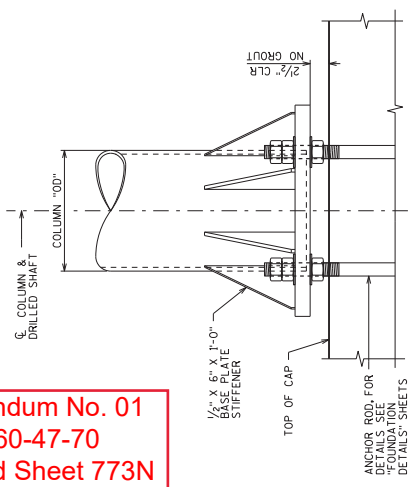
END VIEW COLUMN TRUSS



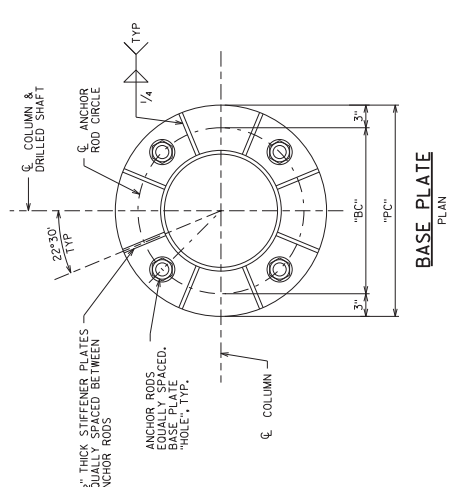
TOWER CAP DETAIL



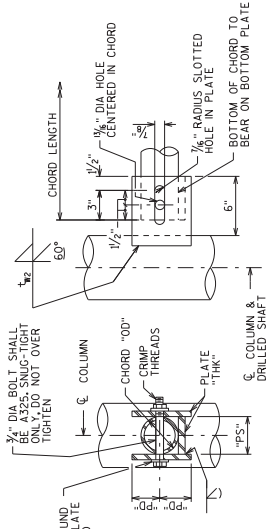
BASE PLATE STIFFENER DETAIL



BASE PLATE & COLUMN DETAIL
LOOKING AT FRONT FACE OF STRUCTURE



BASE PLATE PLAN



TOWER SADDLE CONNECTION DETAILS
BOLT AND HOLE DIMENSIONS SHOWN ARE MINIMUM

FULL SPAN 4-CHORD COLUMN MEMBER TABLE

STANDARD DESIGN TYPE	MAXIMUM COLUMN HEIGHT	COLUMN OUTER DIA X THK	WEB W x D x THK	STIFFENER W x D x THK	BASE PLATE			TOWER SADDLE CONNECTION					
					"L _{TH} "	"HOLE"	"THK"	"PC"	"BC"	"THK"	"PS"	"PD"	
I	31'-0"	22.75" x 0.250"	L37/2x37/2x3/8	6" x 12" x 1/2"	3/8"	1 1/8"	2"	1'-6 3/4"	2'-0 3/4"	1/4"	3/8"	5 3/8"	3 1/4"
II	31'-0"	22.75" x 0.375"	L4x4x3/8	6" x 12" x 1/2"	3/8"	1 1/8"	2"	1'-6 3/4"	2'-0 3/4"	1/4"	3/8"	5 3/4"	3 3/8"
III	31'-0"	22.75" x 0.500"	L4x4x1/2	6" x 12" x 1/2"	3/8"	2 1/8"	2"	1'-6 3/4"	2'-0 3/4"	1/4"	7/8"	5 3/4"	3 3/8"
IV	31'-0"	14.00" x 0.500"	L5x5x1/6	6" x 12" x 1/2"	3/8"	2 1/8"	2"	1'-8"	2'-2"	1/4"	7/8"	6 1/8"	4 1/8"
V	31'-0"	16.00" x 0.500"	L5x5x1/2	6" x 12" x 1/2"	3/8"	2 1/8"	2"	1'-10"	2'-4"	1/4"	1 1/2"	6 1/8"	4 1/8"

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
UPDATED:		MARCH 2021	
DESIGNED BY:	BRUNN	CHECKED BY:	BOS
4-CHORD TRUSS FULL SPAN COLUMN DETAILS		SHEET II OF VIII	
		773N	

LEGEND
 ⚡ FOR OSS WITH DMS ONLY, PROVIDE HANDHOLES AT COLUMN ADJACENT TO DMS. SEE "ELECTRICAL DETAILS" SHEET
 □ FOR OSS WITH DMS ONLY, DRILL HOLE AND TAP FOR (2) 2" STD. PIPE THREADS, LOCATE BOTTOM HOLE 6" UP FROM TOP OF BOTTOM CHORD AND SPACE VERTICALLY AT 6" C/C. PROVIDE 1/2" DIA. HOLES IN HOLES THAT ARE NOT USED FOR WIRING SIGN PANELS.

STATE PROJECT NUMBER

STANDARD

NOTE

FABRICATOR HAS THE OPTION TO USE NON-MITERED, FULL PENETRATING GUSSET PLATES IN ALL OF THE PLATES SHOWN ON THESE DETAILS.

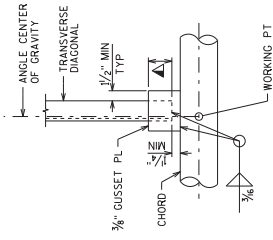
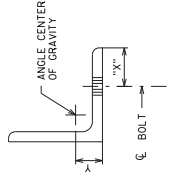
MEMBER CONNECTION DATA

STANDARD CONNECTION TYPE	WELD LEG LENGTH	NO. OF BOLTS	
I	3" MIN	4" MIN	3
II	3 1/2" MIN	6" MIN	3
III	3 1/2" MIN	6" MIN	5
IV	4" MIN	6 1/4" MIN	5
V	4 1/2" MIN	7 1/4" MIN	5

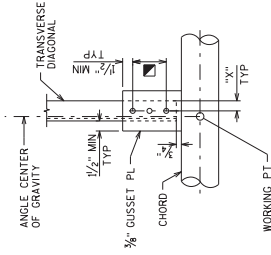
FOR ALL ANGLE TO GUSSET CONNECTIONS, BOLT SPACING = 2 1/2"

ANGLE DATA

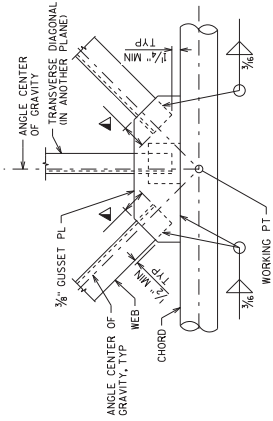
ANGLE SIZE	"x"	"y"
L3X3X1/2	0.836"	1 1/4"
L3 1/2X3 1/2X3/8	0.979"	1 1/2"
L4X4X3/8	1.13"	1 1/2"
L4X4X1/2	1.15"	1 1/2"
L4X4X5/8	1.18"	1 1/2"
L5X5X1/2	1.40"	2"
L5X5X5/8	1.42"	2"



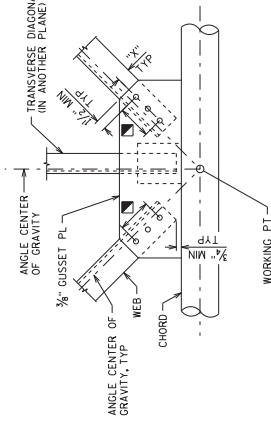
WELDED TRANSVERSE DIAGONAL CONNECTION



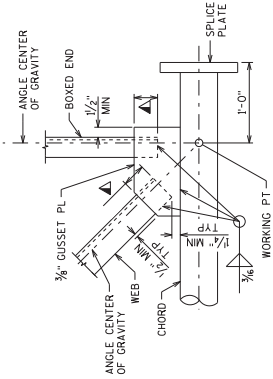
BOLTED TRANSVERSE DIAGONAL CONNECTION



WELDED PANEL CONNECTION

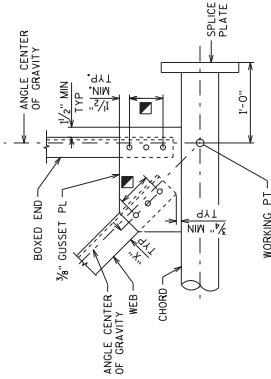


BOLTED PANEL CONNECTION



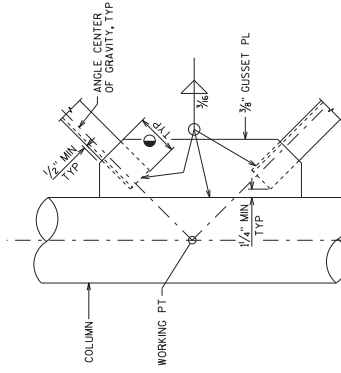
WELDED BOXED END CONNECTION

CONNECTION SHOWN AT CHORD SPLICE. CONNECTION AT COLUMN END SIMILAR.

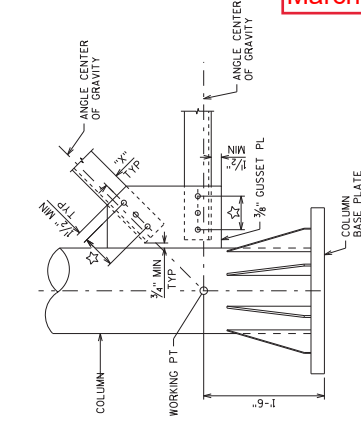


BOLTED BOXED END CONNECTION

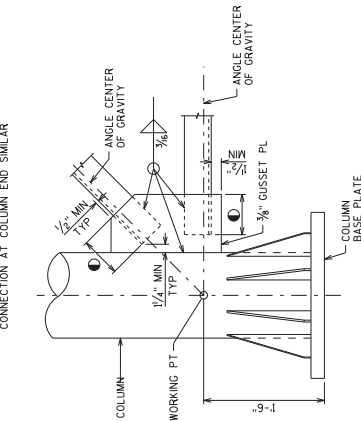
CONNECTION SHOWN AT CHORD SPLICE. CONNECTION AT COLUMN END SIMILAR.



WELDED COLUMN WEB CONNECTION

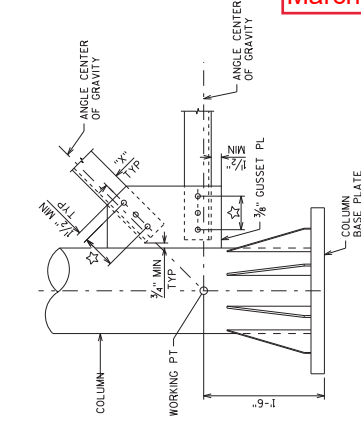


BOLTED COLUMN WEB CONNECTION



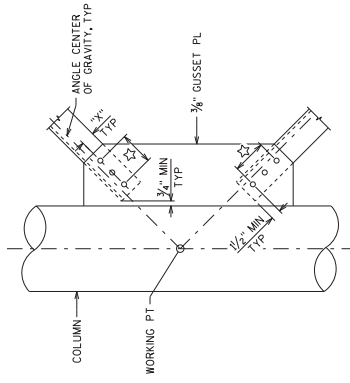
WELDED COLUMN BOTTOM CONNECTION

TOP CONNECTION SIMILAR



BOLTED COLUMN BOTTOM CONNECTION

TOP CONNECTION SIMILAR

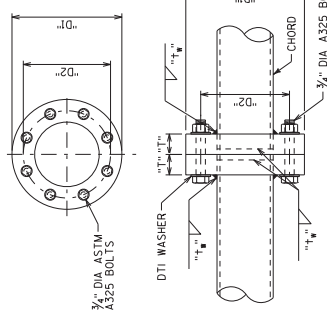


BOLTED COLUMN WEB CONNECTION

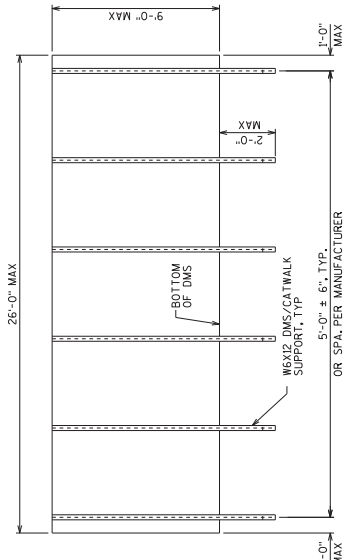
Addendum No. 01
ID 1060-47-70
Added Sheet 7730
March 25, 2024

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
UPDATED:		MARCH 2021	
BY:	BRUN	DESIGNED BY:	BOS
4-CHORD TRUSS FULL SPAN CONNECTIONS 1		SHEET III OF VIII	
		7730	

STATE PROJECT NUMBER
STANDARD

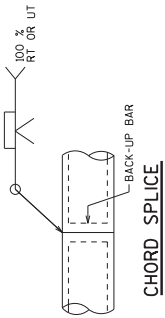


Addendum No. 01
ID 1060-47-70
Added Sheet 773P
March 25, 2024



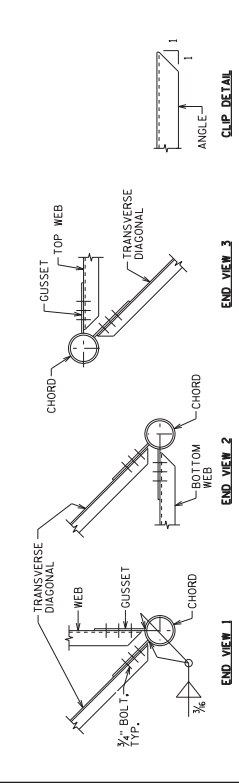
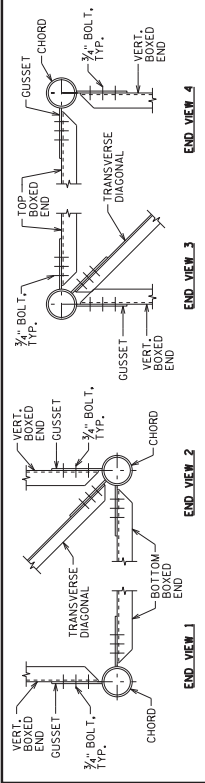
DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



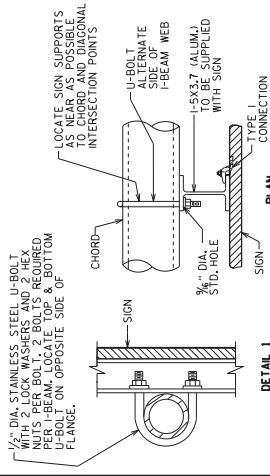
CHORD SPLICE

OR SPA. PER MANUFACTURER
5'-0" ± 6" TYP.



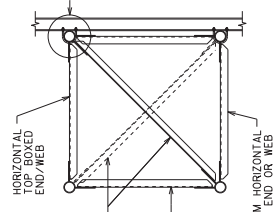
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR



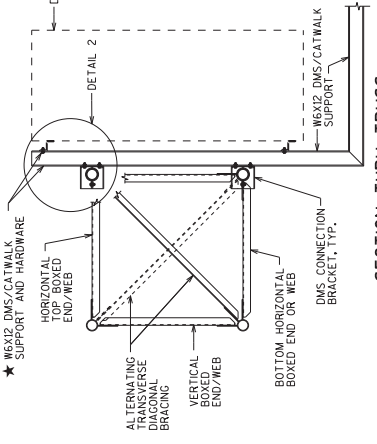
TYPICAL SIGN CONNECTION

SEE SIGN PLATE MANUAL A4-7A & A4-7B FOR DETAILS



SECTION THRU TRUSS

ALUMINUM 1-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH THE SIGN PANEL
HARDWARE TO BE SUPPLIED BY THE CONTRACTOR



DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILAR

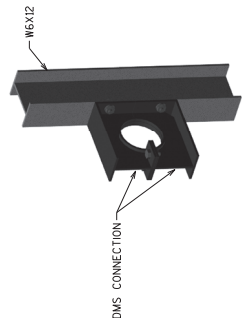
CHORD OUTER DIA	"x"	"y"
5.000"	9 3/8"	10 1/8"
5.563"	10 3/8"	10 7/8"
6.625"	11 7/8"	11 1/8"

TYPICAL DMS CONNECTION

NEOPRENE GRADE 4515, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1

CHORD SPLICE CONNECTION DATA

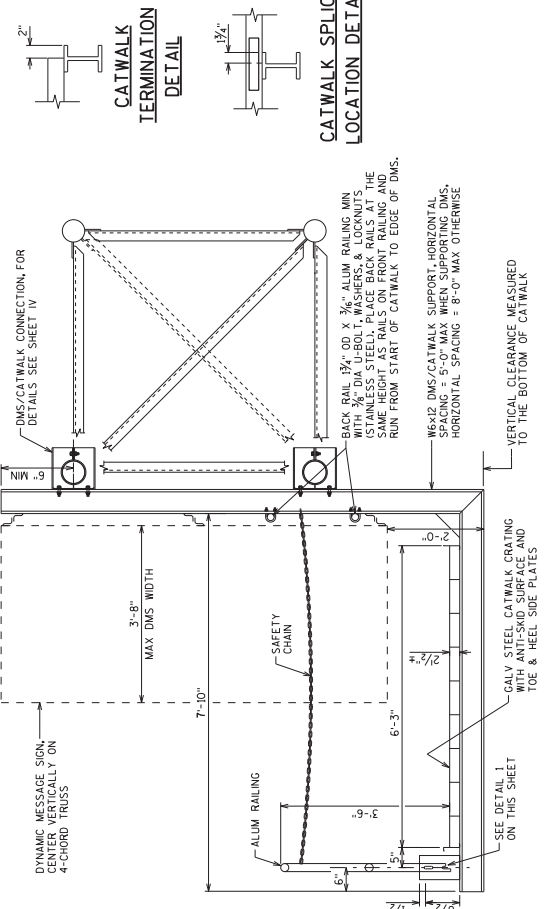
STANDARD DESIGN TRUSS	"D1"	"D2"	"H"	"H"	# OF BOLTS
I	1"	8"	1 1/2"	1/2"	8
II	1 1/2"	8 5/8"	1 1/2"	3/4"	8
III	1 5/8"	8 5/8"	1 1/2"	3/4"	8
IV	1'-0 1/8"	9 5/8"	1 1/2"	3/4"	8
V	1'-0 1/8"	9 5/8"	1 1/2"	3/4"	8



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

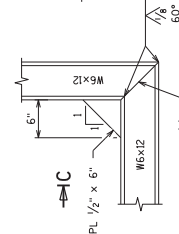
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
UPDATED:		APRIL 2021	
DRAWN BY:		BRUN BOSCH	
CHECKED BY:		BOS	
SHEET IV		OF VIII	
4-CHORD TRUSS FULL SPAN CONNECTIONS 2			773P



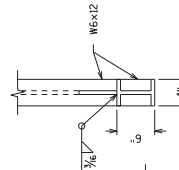
SECTION THRU WALKWAY



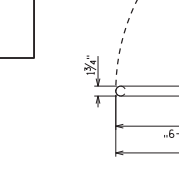
CATWALK TERMINATION DETAIL



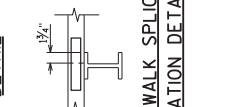
BRACKET DETAIL



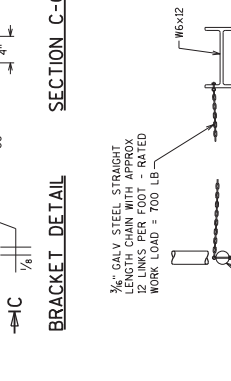
SECTION C-C



RAIL POST DETAIL

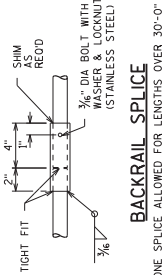


CATWALK SPlice LOCATION DETAIL



SAFETY CHAIN DETAIL

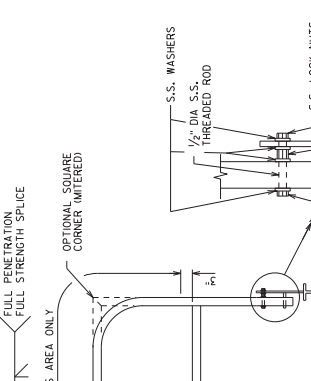
PROVIDE SAFETY CHAIN AT EACH END OF THE CATWALK



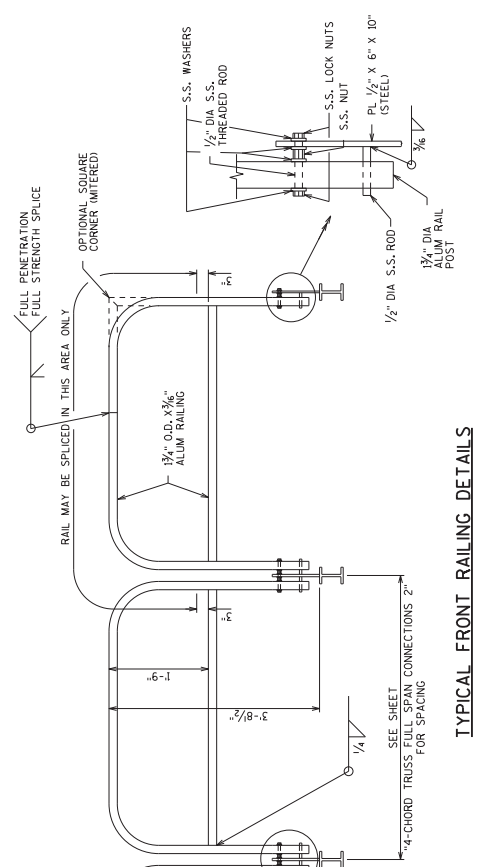
BACKRAIL SPlice

ONE SPlice ALLOWED FOR LENGTHS OVER 30'-0"

NOTE: CATWALK GRATING SHALL MEET THE CURRENT AASHTO "L" RED SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS (6500 LB LIVE LOAD DISTRIBUTED OVER 4' X 4' AREA). GRATING SHALL ALSO MEET CURRENT OSHA STDS FOR WALKING-WORKING SURFACES.



DETAIL J



TYPICAL FRONT RAILING DETAILS

Addendum No. 01
ID 1060-47-70
Added Sheet 773Q
March 25, 2024

NO.	DATE	REVISION	BY

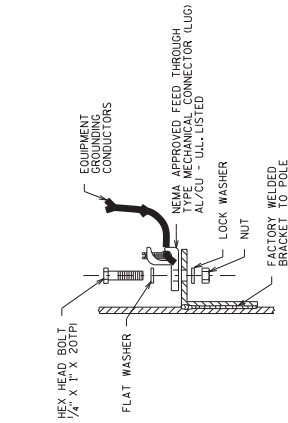
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: **MARCH 2021**

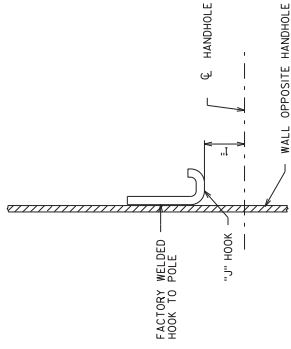
BY: **BOB BOSCH**

4-CHORD TRUSS
FULL SPAN
CATWALK DETAILS

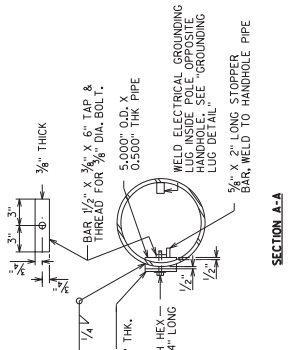
SHEET V OF VIII
773Q



GROUNDING LUG DETAIL
NUT, BOLT, AND WASHERS SHALL BE STAINLESS STEEL

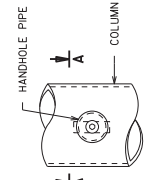


TYPICAL "J" HOOK LOCATION
THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



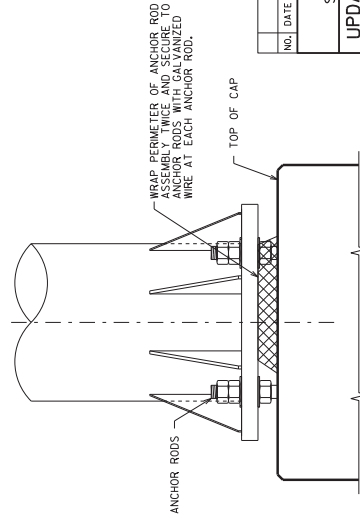
HANDHOLE NOTES
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH ELECTRICAL SERVICE ENTRANCE SHALL BE IDENTIFIED AS SUCH. VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER THE WISDOT STANDARD SPECIFICATIONS.

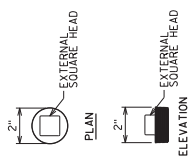


HANDHOLE DETAILS

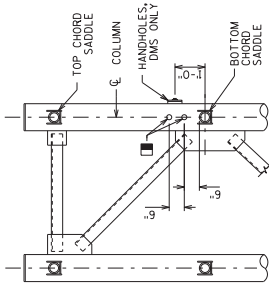
Addendum No. 01
ID 1060-47-70
Added Sheet 773R
March 25, 2024



(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)



CONDUIT PLUG DETAILS

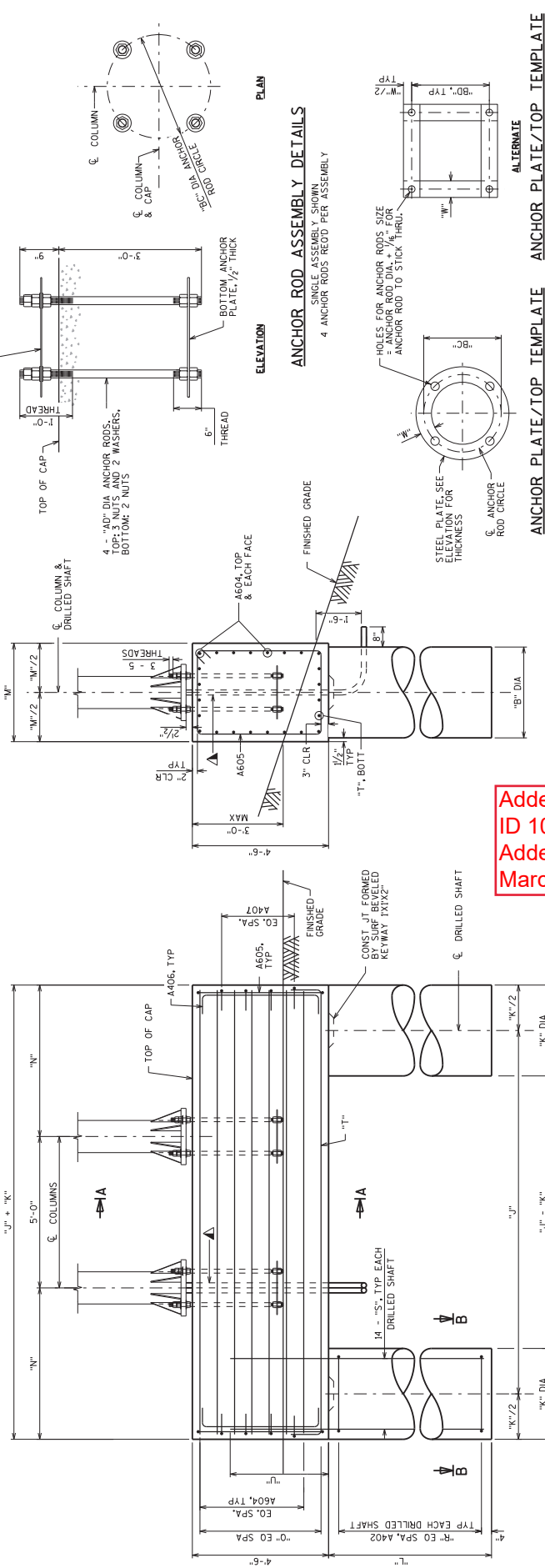


CONDUIT HOLE LOCATIONS

2" THREADED HOLE USE THREADED CONDUIT PLUG FOR UNUSED HOLES

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
UPDATED: MARCH 2021			
DRAWN BY: BOS		CHECKED BY: BOS	
SHEET VI OF VIII			773R

STATE PROJECT NUMBER
STANDARD

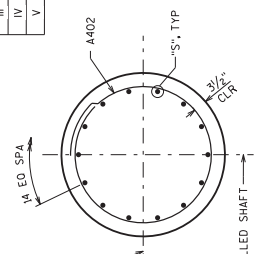


ANCHOR ROD ASSEMBLY DETAILS
SINGLE ASSEMBLY SHOWN
4 ANCHOR RODS REQ'D PER ASSEMBLY

ANCHOR PLATE/TOP TEMPLATE
ANCHOR PLATE/TOP TEMPLATE
ANCHOR PLATE/TOP TEMPLATE

STD DESIGN TRUSS	FOUNDATION DIMENSIONS													ANCHOR PLATE DIMENSIONS				
	"J"	"K"	"L"	"M"	"N"	"O"	"P"	"Q"	"R"	"S"	"T"	"U"	"V"	"AD"	"BC"	"BD"	"W"	
I	9'-0"	3'-0"	19'-0"	3'-3"	3'-3"	3'-6"	7	19	A801	A603	2'-2"	17	1/2"	1'-6 3/4"	1'-1/4"	3"		
II	12'-0"	3'-0"	22'-0"	3'-3"	5'-0"	7	22	A801	A603	2'-2"	23	1/2"	1'-6 3/4"	1'-1/4"	3"			
III	12'-0"	3'-6"	23'-0"	3'-9"	5'-3"	7	23	A901	A703	2'-9"	23	1 3/4"	1'-6 3/4"	1'-1/4"	3 1/2"			
IV	15'-0"	3'-6"	23'-0"	3'-9"	6'-9"	7	29	A901	A703	2'-9"	29	1 3/4"	1'-8"	1'-2 1/4"	3 1/2"			
V	15'-0"	4'-0"	23'-0"	4'-3"	7'-0"	8	23	A1001	A703	3'-5"	29	1 3/4"	1'-10"	1'-3 3/8"	3 1/2"			

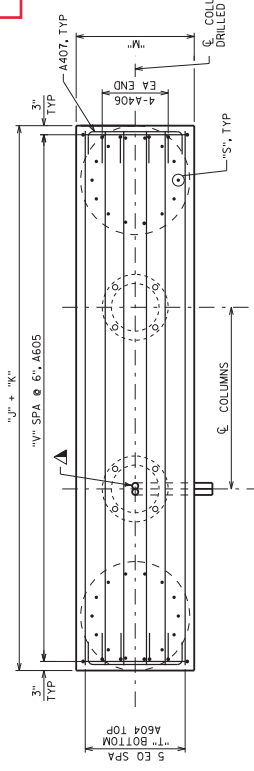
SECTION A-A



SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

ELEVATION



PLAN

NOTES

CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE WELDED TO COLUMN. DO NOT WELD THE ANCHOR RODS TO CONCRETE.

LEGEND

▲ 2" DIA. NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP DRILLED SHAFTS WITH REMOVABLE PLUGS. CONDUITS UNDER COLUMN SHALL BE PLACED IN ANCHOR ROD ASSEMBLY TO THE DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

UPDATED: **MARCH 2021**

DESIGNED BY: **BOB**
DRAWN BY: **BOB**

4-CHORD TRUSS FULL SPAN FOUNDATIONS 1

SHEET VII OF VIII
773S

Addendum No. 01
ID 1060-47-70
Added Sheet 773S
March 25, 2024

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS - STANDARD DESIGN TYPE J

BAR MARK	NO. REOD.	LENGTH	BAR SERIES	LOCATION
A401	56	24'-2"	X	DRILLED SHAFT - VERTICAL
A402	80	9'-0"	X	DRILLED SHAFT - HORIZONTAL
A603	X 12	13'-3"	X	CAP - LONGITUDINAL - BOTTOM
A604	X 36	11'-8"	X	CAP - LONGITUDINAL - TOP & SIDES
A605	X 48	14'-10"	X	CAP - STIRRUP
A406	X 16	5'-2"	X	CAP - VERTICAL - EACH END
A407	X 16	3'-5"	X	CAP - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TYPE II

BAR MARK	NO. REOD.	LENGTH	BAR SERIES	LOCATION
A401	56	24'-2"	X	DRILLED SHAFT - VERTICAL
A402	92	9'-0"	X	DRILLED SHAFT - HORIZONTAL
A603	X 12	16'-3"	X	CAP - LONGITUDINAL - BOTTOM
A604	X 36	14'-8"	X	CAP - LONGITUDINAL - TOP & SIDES
A605	X 60	14'-10"	X	CAP - STIRRUP
A406	X 16	5'-2"	X	CAP - VERTICAL - EACH END
A407	X 16	3'-5"	X	CAP - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TYPE III

BAR MARK	NO. REOD.	LENGTH	BAR SERIES	LOCATION
A401	56	25'-9"	X	DRILLED SHAFT - VERTICAL
A402	96	10'-6"	X	DRILLED SHAFT - HORIZONTAL
A703	X 12	17'-1"	X	CAP - LONGITUDINAL - BOTTOM
A604	X 36	15'-2"	X	CAP - LONGITUDINAL - TOP & SIDES
A605	X 62	15'-10"	X	CAP - STIRRUP
A406	X 16	5'-2"	X	CAP - VERTICAL - EACH END
A407	X 16	3'-11"	X	CAP - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TYPE IV

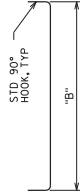
BAR MARK	NO. REOD.	LENGTH	BAR SERIES	LOCATION
A401	56	25'-9"	X	DRILLED SHAFT - VERTICAL
A402	120	10'-6"	X	DRILLED SHAFT - HORIZONTAL
A703	X 12	20'-1"	X	CAP - LONGITUDINAL - BOTTOM
A604	X 36	18'-2"	X	CAP - LONGITUDINAL - TOP & SIDES
A605	X 74	15'-10"	X	CAP - STIRRUP
A406	X 16	5'-2"	X	CAP - VERTICAL - EACH END
A407	X 16	3'-11"	X	CAP - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TYPE V

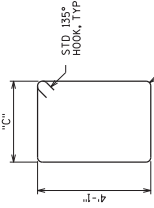
BAR MARK	NO. REOD.	LENGTH	BAR SERIES	LOCATION
A1001	56	26'-5"	X	DRILLED SHAFT - VERTICAL
A402	96	12'-1"	X	DRILLED SHAFT - HORIZONTAL
A703	X 12	20'-7"	X	CAP - LONGITUDINAL - BOTTOM
A604	X 36	18'-8"	X	CAP - LONGITUDINAL - TOP & SIDES
A605	X 76	16'-10"	X	CAP - STIRRUP
A406	X 16	5'-2"	X	CAP - VERTICAL - EACH END
A407	X 16	4'-5"	X	CAP - HORIZONTAL - EACH END



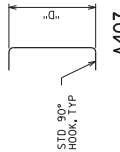
DESIGN TYPE	"A"
I	2'-5"
II	2'-5"
III	2'-11"
IV	2'-11"
V	3'-5"



DESIGN TYPE	BAR MARK	"B"
I	A603	11'-7"
II	A603	14'-7"
III	A703	15'-1"
IV	A703	18'-1"
V	A703	18'-7"



DESIGN TYPE	"C"
I	2'-11"
II	2'-11"
III	3'-5"
IV	3'-5"
V	3'-11"



DESIGN TYPE	"D"
I	2'-9 1/2"
II	2'-9 1/2"
III	3'-3 1/2"
IV	3'-3 1/2"
V	3'-9 1/2"

BAR BENDING DIAGRAMS

NOTE: ALL DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TRUSS	CONCRETE MATERIAL (CY)	STEEL REINFORCEMENT (LBS)	STEEL REINFORCEMENT HS (LBS)	ANCHOR ASSEMBLY (EACH)	ANCHOR ASSEMBLY (EACH)	FOUNDATION DIMENSION (L.F.)
I	33	4,100	2,030	4	76	36" x 42" x 48" DIA. DIA. DIA.
II	40	4,170	2,520	4	88	76
III	53	5,580	2,810	4	92	88
IV	96	5,750	3,340	4	92	92
V	70	7,160	3,540	4	92	92

** * QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON STANDARD STRUCTURE DIMENSIONS**

Addendum No. 01
ID 1060-47-70
Added Sheet 773T
March 25, 2024

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
UPDATED:		MARCH 2021	BOB
BY:	BOB	BOB	BOB
4-CHORD TRUSS FULL SPAN FOUNDATIONS 2			SHEET VIII OF VIII
			773T

STATE PROJECT NUMBER
1060-47-70

GENERAL NOTES:

- DRAWINGS SHALL NOT BE SCALED
- ALTERNATE DESIGNS ARE NOT ALLOWED
- ALL HS, BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.
- EXISTING SIGN DESIGN AREA FROM HSS IS 30 S.F.
- STEEL ANCHOR ROD NUTS AND WASHERS SHALL BE ASTM A-576.

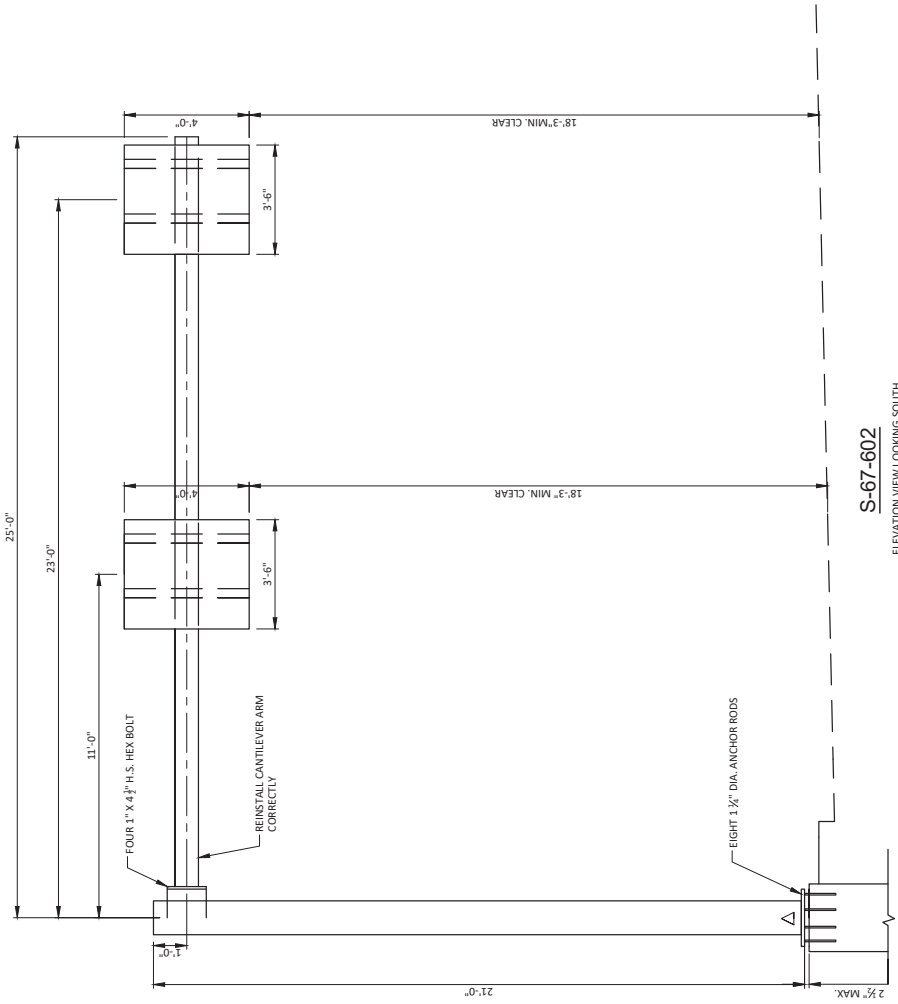
TRAFFIC DATA:

STM 318 A.A.D.T. = 9,400 (2019)
R.D.S. = 40 MPH

MATERIAL PROPERTIES

- STRUCTURAL ANGLES
PLATE AND BARS - ASTM A709 GRADE 36
fy = 36,000 psi
- HIGH STRENGTH BOLTS - A 325
fy = 92,000 psi
- ANCHOR RODS - ASTM F1554 GRADE 55
fy = 55,000 psi
- HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A
- WASHERS FOR ANCHOR RODS - ASTM F436

Addendum No. 01
ID 1060-47-70
Added Sheet 773U
March 25, 2024



TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
SPV.0060.001	TENSION ANCHOR ROD	EA	8
SPV.0060.007	LOWER STRUCTURE	EA	1

△ REMOVE MAST ARM AND COLUMN. LOWER BASE PLATE TO 2 1/2" MAX. FROM TOP OF CONCRETE TO BOTTOM OF BASE PLATE. REMOVE LOCK WASHERS



DESIGN CONSULTANT
TOM ROMENSKO, PE
(808) 596-1370

BRIDGE OFFICE CONTACT
AARON BONK, PE
(808) 281-0261

PLOT BY: MITCHELL CORNER

PLOT DATE: 2/28/24 12:22:11 PM

FILE NAME: C:\USERS\MITCHELLCORNER\WORK\DATA\COMP\INDO\DOCUMENTS\SE-DESIGN\1060-47-70\14 WALKESHA COUNTY\STRUCTURE\PLAN\GEN\PLAN.DWG

NO.	DATE	REVISION	BY

DAK
DAK ENGINEERING, INC.
1000 N. WALKESHA AVENUE
MADISON, WI 53706
PH: 608.281.0261

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED *[Signature]* DATE: 02/13/24
CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE S-67-602

5th IS DISTRICT OF SUPERVISOR ID

COUNTY: WALKESHA TOWN: WALKESHA TOWNSHIP: WALKESHA

DESIGN SPEC. ASHFD BRIDGE DESIGN SPECIFICATIONS.

DESIGNED BY: TR. BY: TR. BY: TR. BY: TR.

GENERAL PLAN SHEET 1 OF 1
773U

LAYOUT: 1 - GENERAL PLAN