

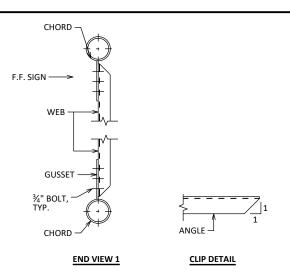
2-CHORD TRUSS SIGN CONNECTION

TYPE I SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7BFOR DETAILS. ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.

½" DIA. STAINLESS STEEL U-BOLT WITH 2 LOCK WASHERS, 2 FLAT WASHERS AND 2 HEX NUTS PER BOLT. REQUIRED PER I-BEAM, LOCATE U-BOLTS ON 2 - U-BOLTS PER CONNECTION CHORD %6" DIA. I-5X3.7 (ALUM.) STD. HOLE TO BE SUPPLIED TYPE II SIGN -STAINLESS BOLT, **NUT AND OVERSIZED** DETAIL 1 PLAN

MONOTUBE SIGN CONNECTION

TYPE II SIGN PANEL SHOWN. SEE SIGN PLATE MANUAL A4-7A AND A4-7B FOR DETAILS. ALUMINUM I-5X3.7 I-BEAMS ARE TO BE SUPPLIED WITH SIGN PANEL, HARDWARE TO BE SUPPLIED BY THE CONTRACTOR.



13'-9" MAX. (CANTILEVER) 10'-6" MAX. (FULL SPAN) - W6X12 DMS/CATWALK SUPPORT, TYP. BOTTOM -5'-0" ± 6", TYP. OR SPA. PER MANUFACTURER MAX.

RT OR - BACK-UP BAR

STATE PROJECT NUMBER

STANDARD

CHORD SPLICE

SEPARATE OPTIONAL SPLICE FROM GUSSET PLATES BY 6" MIN.

TRUSS CONNECTION DETAILS

CHORD

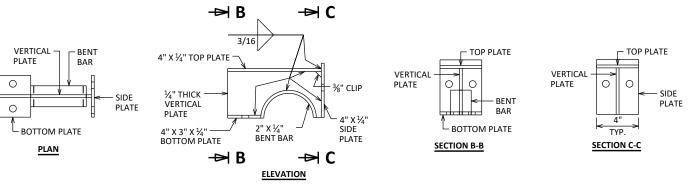
"X"

"OD" + $4^{13}/_{16}$ " "OD" + $5^{1}/_{16}$ "

MEMBER ORIENTATION FOR BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR. ANGLES PREFERRED, OTHER WEB DESIGNS ALLOWED.

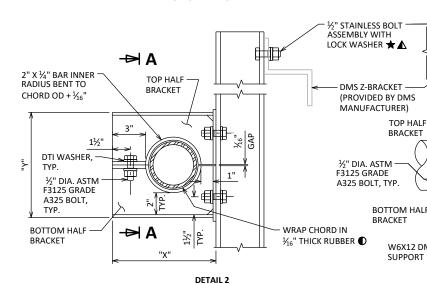
DMS MOUNTING POST DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF SPACING CONFLICTS WITH GUSSET PLATES OF TRUSS WITHIN TOLERANCES NOTED.



DMS WELDED PLATE CONNECTION DETAILS

TOP HALF OF BRACKET SHOWN,



TYPICAL DMS CONNECTION

TOP HALF BRACKET

W6X12 DMS

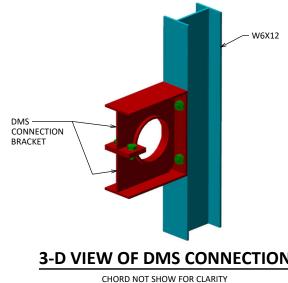
- CHORD

TYP.

SECTION A-A

■ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD. SPEC. 506.2.6.1

▲ IF DMS CONNECTION BRACKET IS USED WITH A TYPE II SIGN PANEL, THE BOLT HOLE MUST BE GALVANIZED AND A STAINLESS WASHER USED BETWEEN THE I-BEAM AND SIGN PANEL.



3-D VIEW OF DMS CONNECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

UPDATED: OCT. 2023

MONOTUBE & 2-CHORD TRUSS

SHEET II **CONNECTIONS 2**

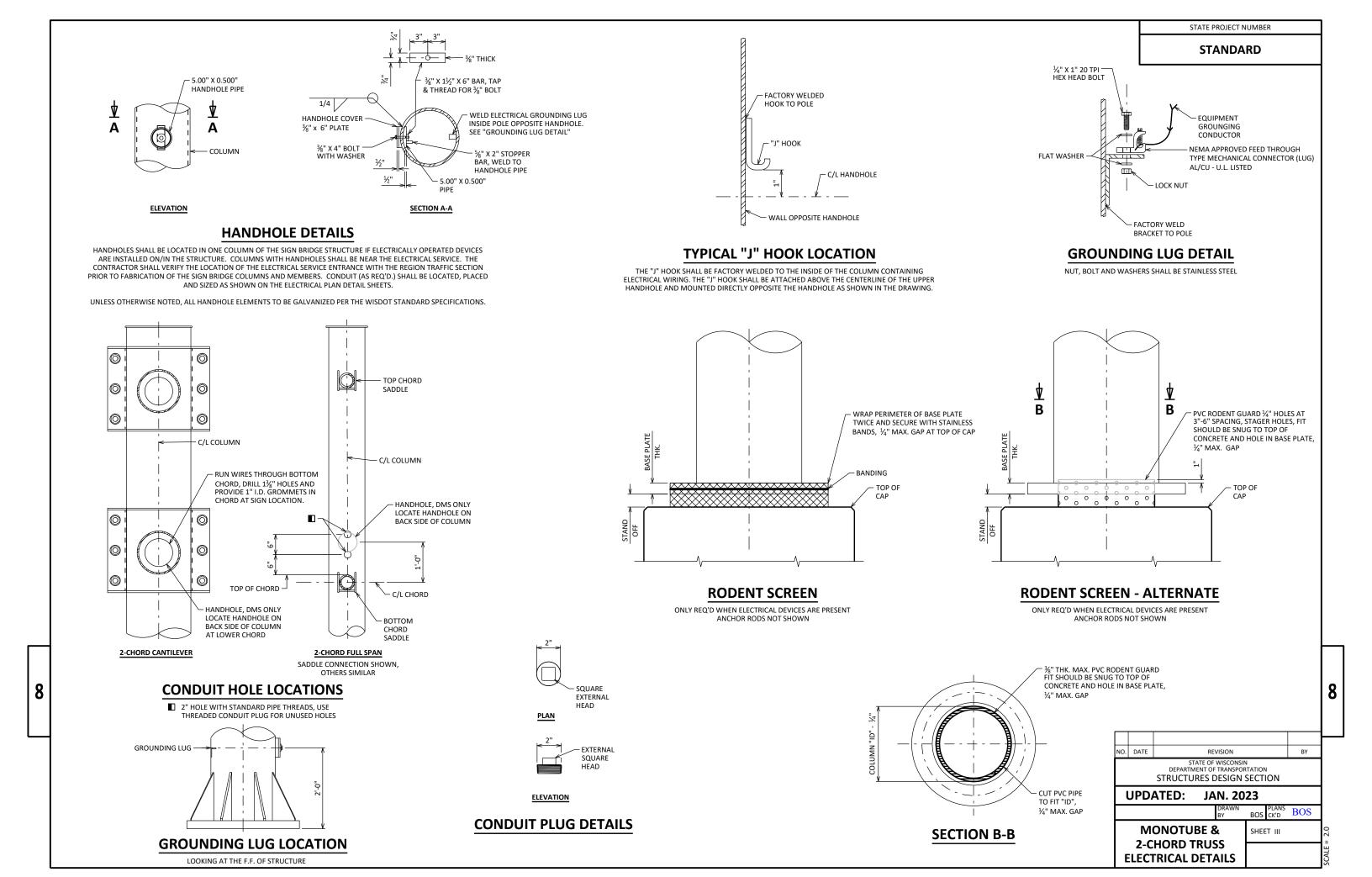
— F.F. DMS 1'-0" MAX.

W6X12 DMS SUPPORT DMS CONNECTION -BRACTET, TYP.

SECTION THRU TRUSS - DMS

FOR DMS/CATWALK CONNECTIONS

★ W6X12 SUPPORTS AND HARDWARE ARE TO BE SUPPLIED BY THE CONTRACTOR. ½" STAINLESS BOLT, NUT, WASHER AND LOCK WASHER REQUIRED, 4 PER W6X12



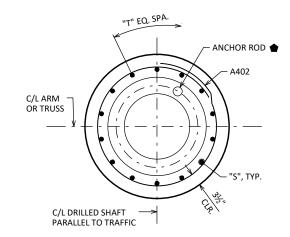
"D"/2

"D"/2

· C/I COLUMN &

DRILLED SHAFT

- TYPICAL FOR DRILLED SHAFT FOOTINGS INSTALLED ADJACENT TO SIDEWALKS OR BEHIND CURB AND GUTTER ON LOW SPEED ROADS. TOP OF SHAFT SHALL BE FLUSH IF SURROUNDED BY CONCRETE AND 2" ABOVE FINISHED GRADE FOR ALL OTHER SURFACES.
- ◆ TYPICAL FOR EACH DRILLED SHAFT FOOTING INSTALLED ADJACENT TO ROADWAY FACILITIES OR ON SIDE SLOPES WITHIN CLEAR ZONE. BARRIER OR BEAMGUARD MAY BE REQUIRED.



SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

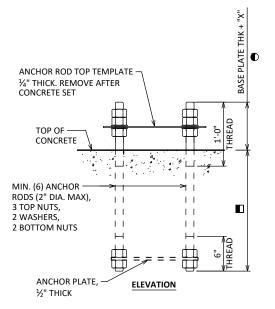
FOUNDATION DIMENSION DATA

STANDARD	FOUNDATION DIMENSIONS								
DESIGN TYPE	"D"	"L"	"R"	"S"	"T"	"ВС" МАХ.			
MFI	2'-0"	12'-0"	12	A801	6	1'-0"			
MFII	2'-6"	13'-0"	13	A801	10	1'-5"			
MCI/MCII/TFI	2'-6"	17'-0"	17	A801	10	1'-5"			
TCI	3'-0"	18'-0"	18	A801	14	1'-10"			
TFII	3'-0"	20'-0"	20	A801	14	1'-10"			
MCIII/TCII/TFIII	3'-6"	18'-0"	18	A901	14	2'-4"			
MCIV/TFIV	3'-6"	23'-0"	23	A901	14	2'-4"			
TCIII	4'-0"	23'-0"	23	A1001	14	2'-10"			
TCIV	4'-0"	28'-0"	28	A1001	14	2'-10"			

ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TYPE	CONCRETE MASONRY	STEEL REINFORCEMENT HS	FOUNDATION DRILLING (DIA.) (LF)					
	(CY)	(LBS)	24"	30"	36"	42"	48	
MFI	2	240	12					
MFII	3	410		13				
MCI/MCII/TFI	4	540		17				
TCI	5	780			18			
TFII	6	860			20			
MCIII/TCII/TFIII	7	970				18		
MCIV/TFIV	9	1,250				23		
TCIII	11	1,560					23	
TCIV	13	1,900					28	

* * QUANTITIES ARE FOR INFORMATION ONLY AND ARE BASED ON A SINGLE * * DRILLED SHAFT. MULTIPLY BY 2 FOR FULL SPAN STRUCTURES.



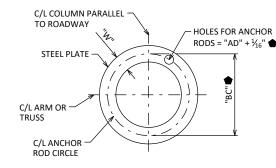
ANCHOR ROD ASSEMBLY DETAILS

■ ANCHOR RODS PER ASSEMBLY TO BE DESIGNED BY CONTRACTOR AND SHOWN ON SHOP DRAWINGS. SHOW DIAMETER, NUMBER, ORIENTATION AND EMBEDMENT OF ANCHOR RODS.

CENTER ANCHOR ROD ASSEMBLY AND ENSURE ASSEMBLY IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHORS.

ANCHOR DIAMETER	MAX. STICK OUT ⊕
	"X"
1"	5"
11/4"	6"
1½"	7"
1¾"	8"
2"	9"

ADD BASE PLATE THICKNESS TO VALUE SHOWN FOR MAX. STICK OUT DIMENSION. CONTRACTOR TO COORDINATE WITH FABRICATOR FOR PROPER ANCHOR PLACEMENT.



ANCHOR PLATE &

♠ ANCHOR SIZE, BOLT CIRCLE, AND POSITION TO BE VERIFIED WITH SHOP DRAWINGS.

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

BILL OF BARS

STANDARD

STATE PROJECT NUMBER

STANDARD TYPE MFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		6	11'-8"			DRILLED SHAFT - VERTICAL
A402		13	5'-10"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE MFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A801		10	12'-8"			DRILLED SHAFT - VERTICAL
A402		14	9'-4"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCI/MCII/TFI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		10	16'-8"			DRILLED SHAFT - VERTICAL
A402		18	9'-4"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCI

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A901		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	10'-10"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TFII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	19'-8"			DRILLED SHAFT - VERTICAL
A402		21	10'-10"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIII/TCII/TFIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	17'-8"			DRILLED SHAFT - VERTICAL
A402		19	12'-5"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPES MCIV/TFIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	12'-5"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIII

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	22'-8"			DRILLED SHAFT - VERTICAL
A402		24	14'-0"	Х		DRILLED SHAFT - HORIZONTAL

STANDARD TYPE TCIV

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A1001		14	27'-8"			DRILLED SHAFT - VERTICAL
A402		29	14'-0"	Х		DRILLED SHAFT - HORIZONTAL

^{*} VALUES IN BAR TABLES ARE FOR A SINGLE FOUNDATION ONLY. MULTIPLY BY 2 FOR FULL * *

A402

LEGEND

ANCHOR ROD STICK OUT IN FINAL CONDITION. EXCESSIVE STICK OUT BEYOND DIMENSION SHOWN TO BE CUT OFF AFTER PLACING STRUCTURE. ANCHORS TO BE ULTRASONIC TESTED TO DETERMINE EMBEDDED LENGTH MEETS REQUIREMENTS PRIOR TO CUTTING. NOTE REMAINING LENGTH ON AS-BUILT.

▲ 2 - 2" DIA. NON-METALLIC CONDUITS. INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO DMS. CONDUITS INCIDENTAL TO THE FOUNDATION BID ITEMS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			

STRUCTURES DESIGN SECTION **UPDATED:** OCT. 2023

BOS CK'D

MONOTUBE & 2-CHORD TRUSS FOUNDATIONS

SHEET IV