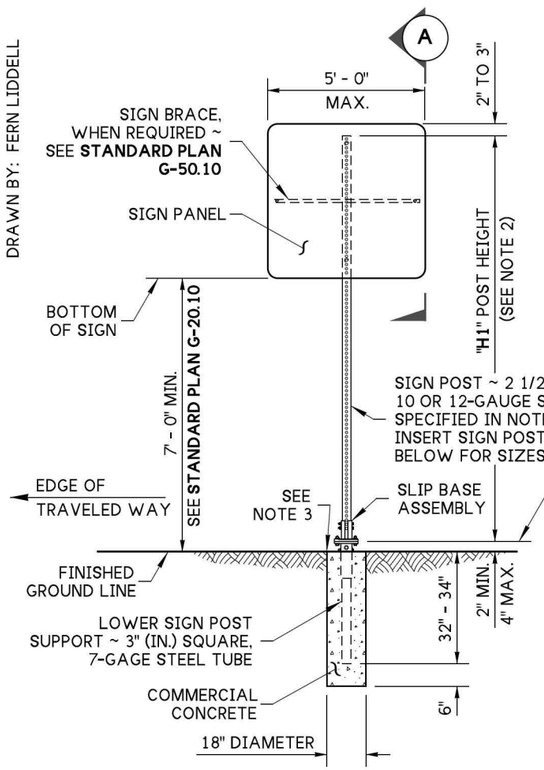
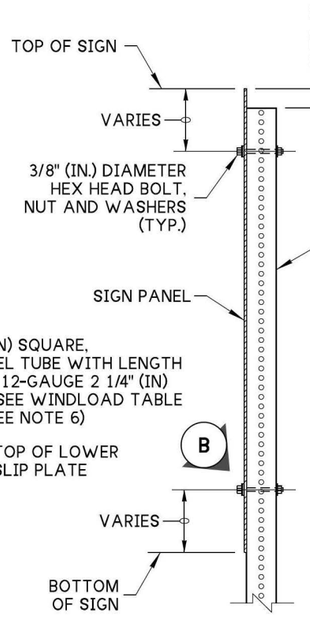
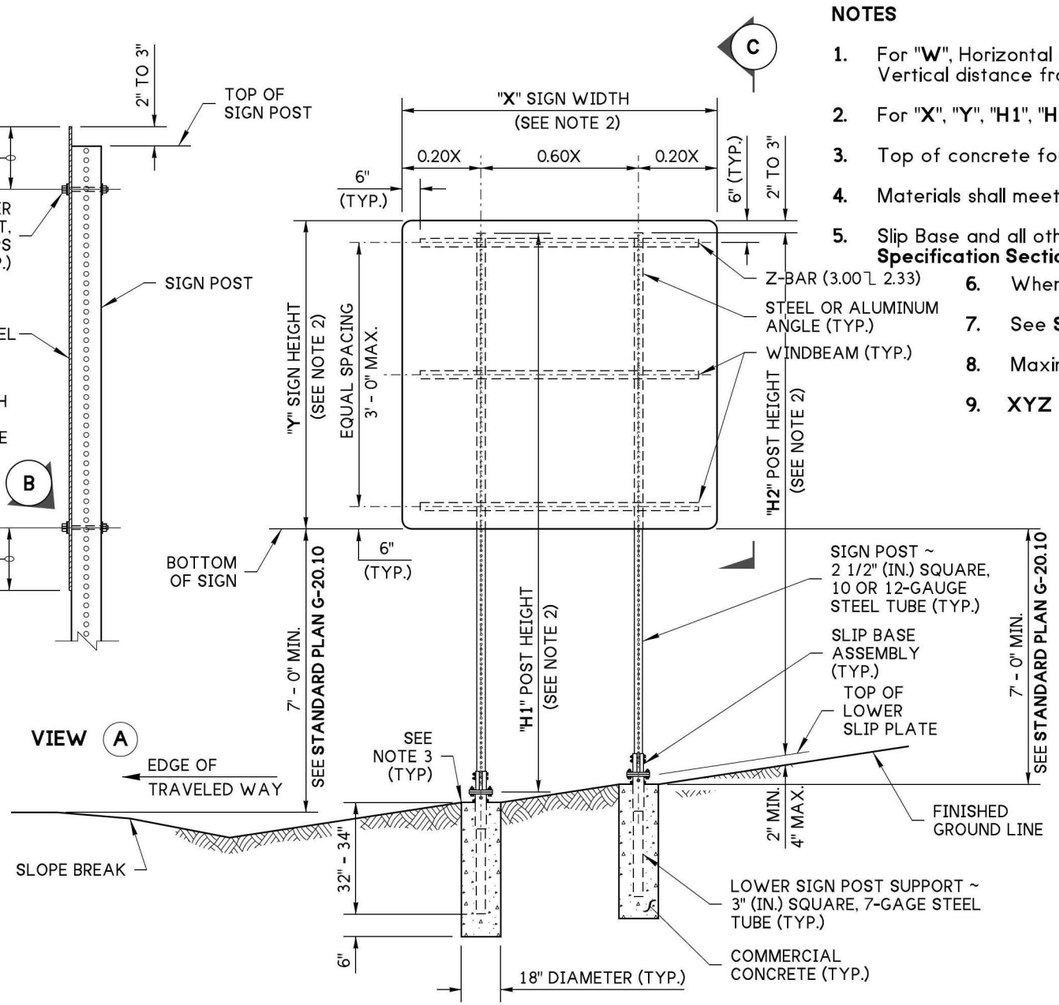
DRAWN BY: FERN LIDDELL



ELEVATION

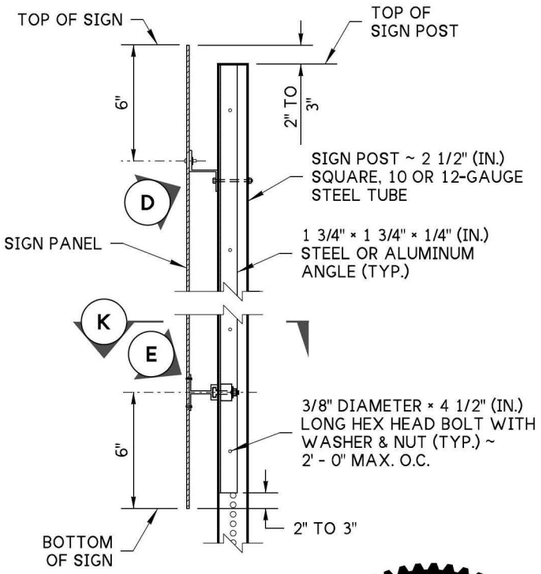




ELEVATION
DUAL-POST INSTALLATION

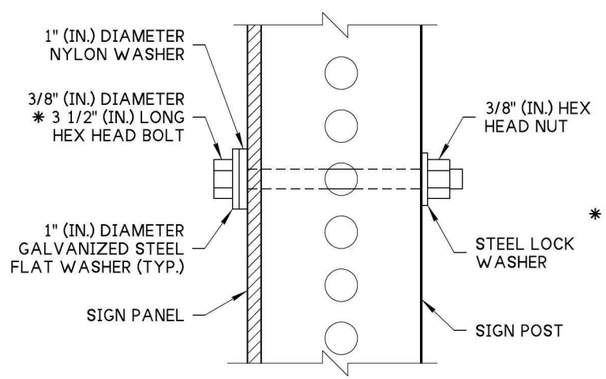
NOTES

1. For "**W**", Horizontal distance from edge of traveled way to center of nearest post, and "**V**", Vertical distance from edge of traveled way to bottom of sign, see **Standard Plan G-20.10**.
2. For "**X**", "**Y**", "**H1**", "**H2**", "**H3**", and "**H4**", refer to the Sign Specification Sheet in the Contract.
3. Top of concrete foundations shall be smooth, dense and uniform to finished groundline.
4. Materials shall meet the requirements of **Standard Specification Section 9-28**.
5. Slip Base and all other materials shall meet the requirements of **Standard Specification Section 9-06**.
6. When a 2 1/4" (in.) insert is used, the insert shall be a minimum of 7 feet.
7. See **Standard Plan J-40.35** and Contract Plans for installations with electrical.
8. Maximum of three (3) slip bases in 7' (ft.) span.
9. **XYZ** Windload exceeds range maximum, See **Standard Plan G-24.40, sheet 4**.

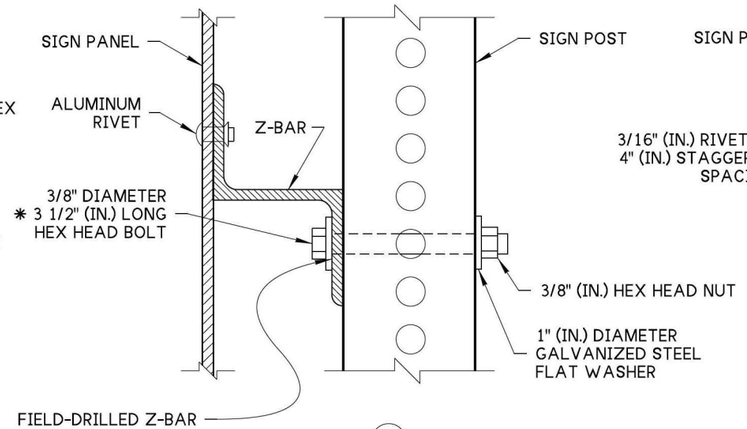


VIEW C

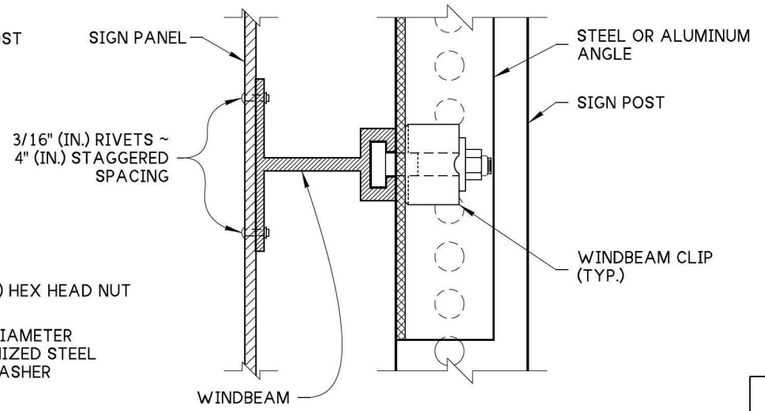
TYPES SB-1, SB-2, SB-3 BASES				
WINDLOAD FOR SQUARE TUBE POSTS AT 90 MPH				
POSTS		XYZ RANGE		
		1 POST	2 POST	3 POST
2 1/2" PSST	12-GAGE	**	173-344 *	345-516 *
2 1/2" PSST	10-GAGE	**	N/A	N/A
2 1/2" PSST with 2 1/4" insert	12-GAGE	173-309 *	310-618 *	619-927 *
(SEE NOTE 6)		(SEE NOTE 8)		
* SLIP BASE REQUIRED (UNLESS BEHIND BARRIER)				
** SEE STANDARD PLAN G-24.50				



DETAIL B



DETAIL D



DETAIL E

Aug 24, 2026

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS STANDARD PLAN G-24.40-08

SHEET 1 OF 6 SHEETS

APPROVED FOR PUBLICATION

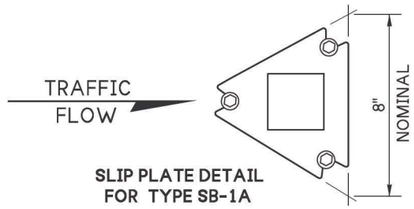
Mark A Swires Aug 24, 2026

STATE DESIGN ENGINEER

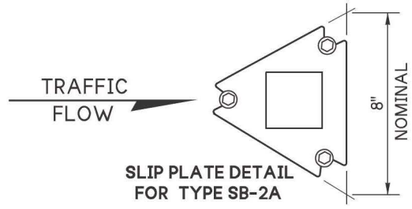
Washington State Department of Transportation

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 ~ 8" (IN.)

DRAWN BY: FERN LIDDELL



SLIP PLATE DETAIL
FOR TYPE SB-1A



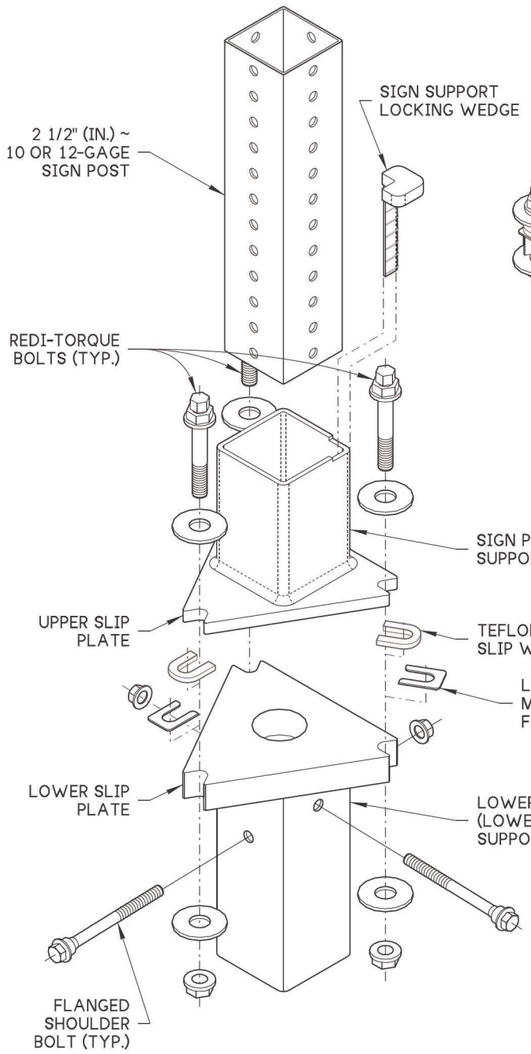
SLIP PLATE DETAIL
FOR TYPE SB-2A

ASSEMBLY NOTES

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with **MASH 16** or **NCHRP 350** crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.

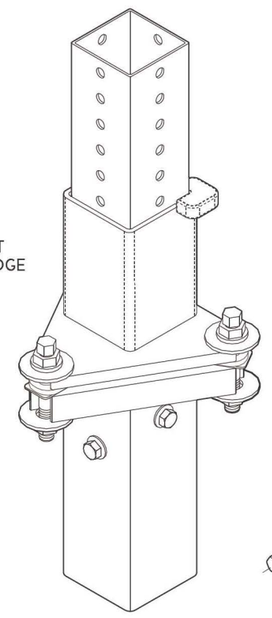
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.

3. Slip Base assembly and all other materials shall meet the requirements of **Standard Specification Sections 9-06** and **9-28**.

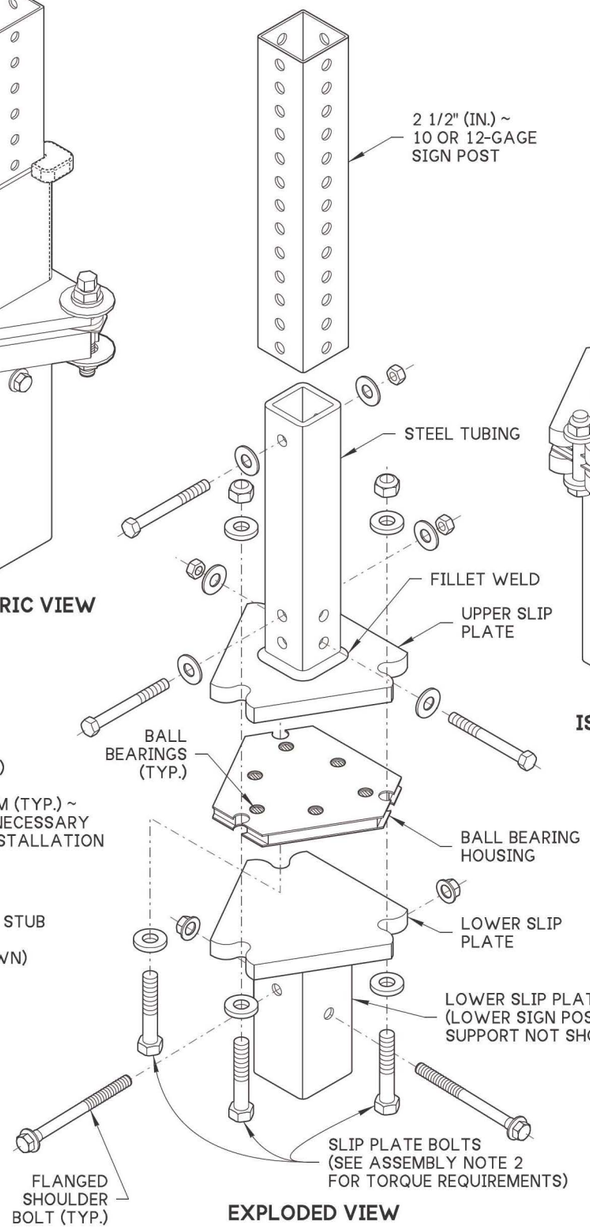


EXPLODED VIEW

TYPE SB-1A
SLIP BASE ASSEMBLY

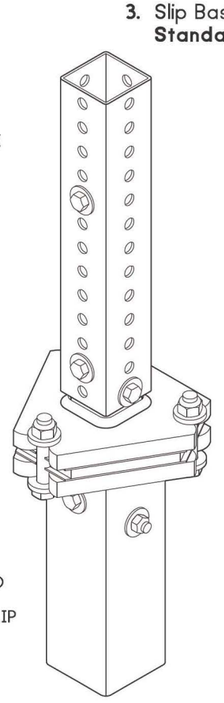


ISOMETRIC VIEW

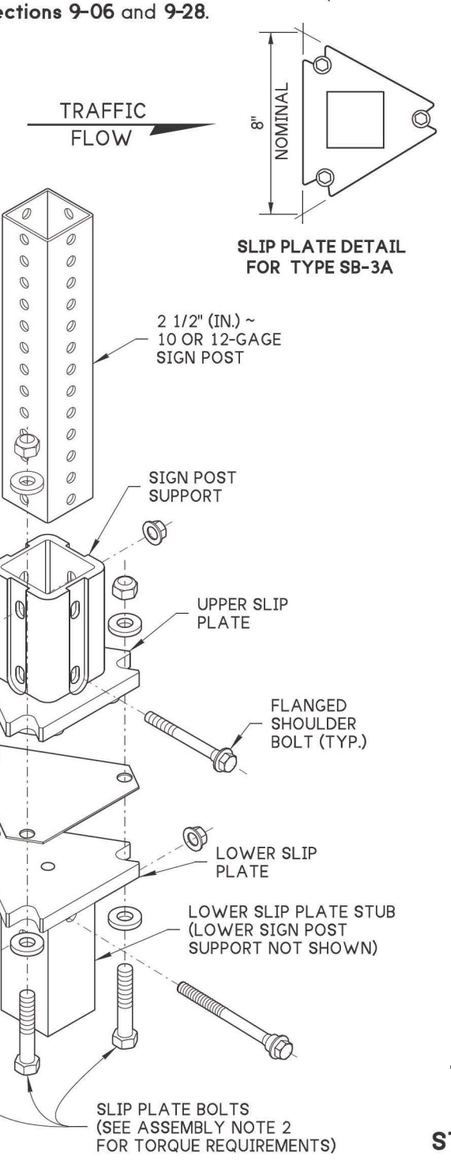


EXPLODED VIEW

TYPE SB-2A
SLIP BASE ASSEMBLY



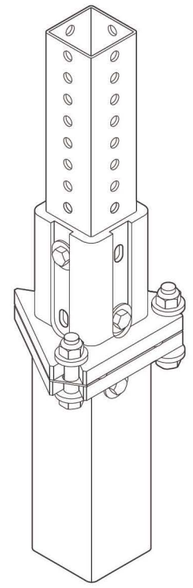
ISOMETRIC VIEW



SLIP PLATE DETAIL
FOR TYPE SB-3A

EXPLODED VIEW

TYPE SB-3A
SLIP BASE ASSEMBLY



ISOMETRIC VIEW

DINA MARIA SWIRES
STATE OF WASHINGTON
33815
REGISTERED
PROFESSIONAL ENGINEER

Aug 24, 2026

STEEL SIGN SUPPORT
TYPES SB-1, SB-2 & SB-3
INSTALLATION DETAILS

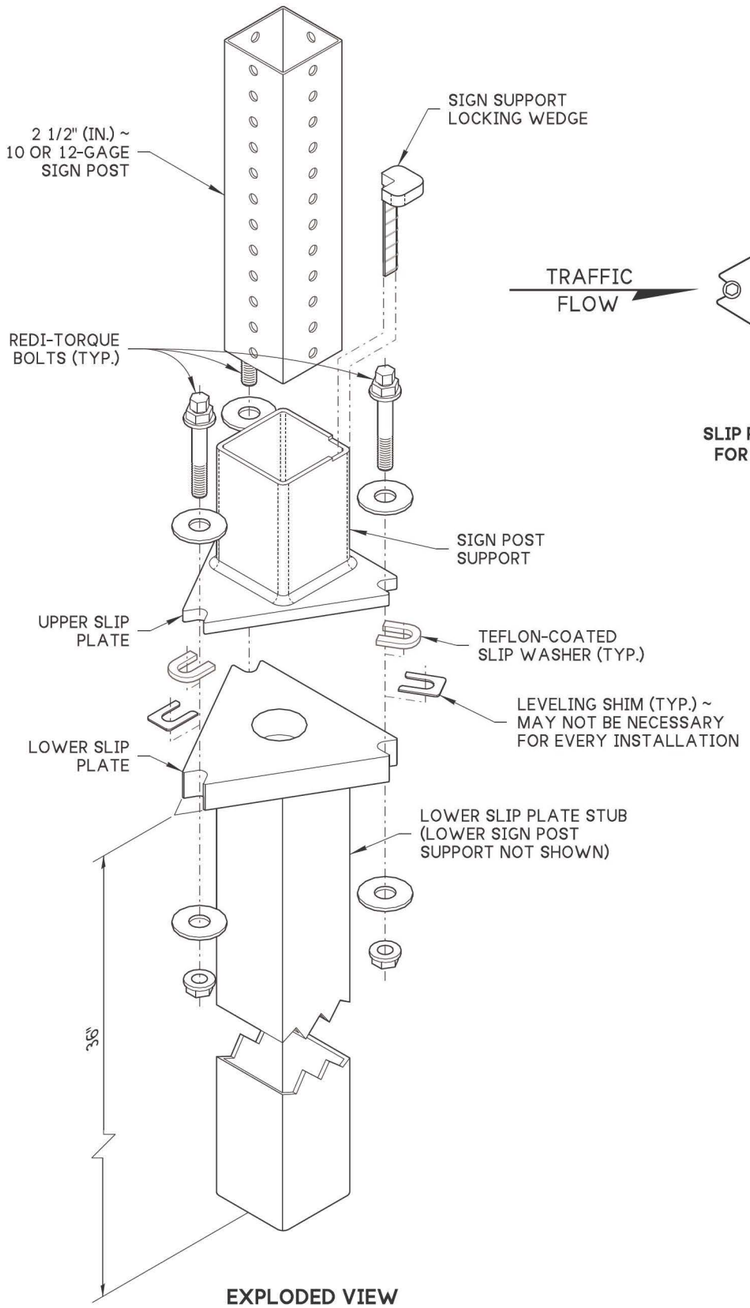
STANDARD PLAN G-24.40-08

SHEET 2 OF 6 SHEETS

APPROVED FOR PUBLICATION
Mark A Swires Aug 24, 2026
STATE DESIGN ENGINEER
Washington State
Department of Transportation

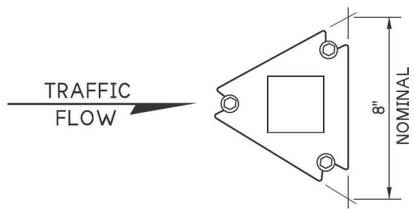
STEEL SIGN SUPPORT TYPES SB-1A, SB-2A & SB-3A ~ 8" (IN.)

DRAWN BY: FERN LIDDELL

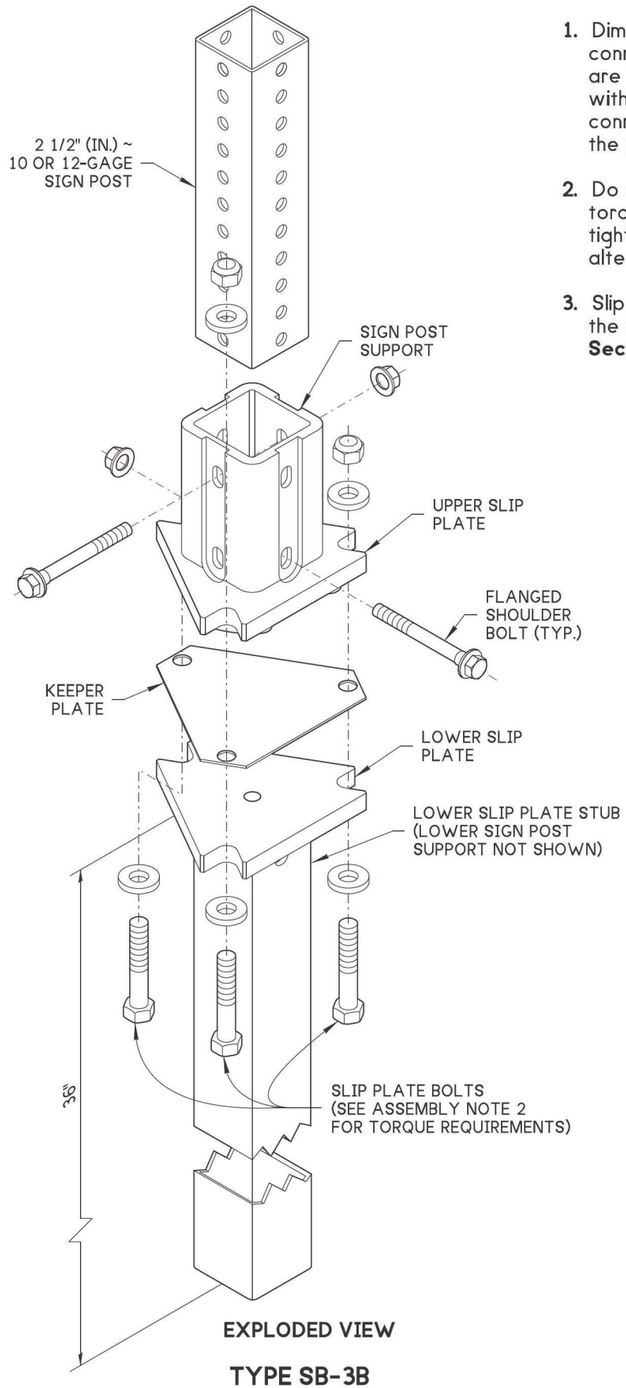


EXPLODED VIEW

TYPE SB-1B
SLIP BASE ASSEMBLY



SLIP PLATE DETAIL
FOR TYPE SB-1B



EXPLODED VIEW

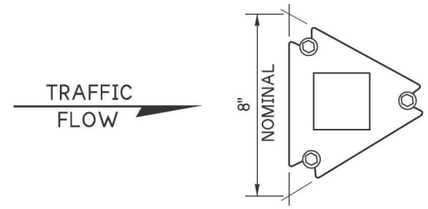
TYPE SB-3B
SLIP BASE ASSEMBLY

ASSEMBLY NOTES

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with **MASH 16** or **NCHRP 350** crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.

2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.

3. Slip Base assembly and all other materails shall meet the requirements of **Standard Specification Sections 9-06** and **9-28.**



SLIP PLATE DETAIL
FOR TYPE SB-3B

Aug 24, 2026

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS

STANDARD PLAN G-24.40-08

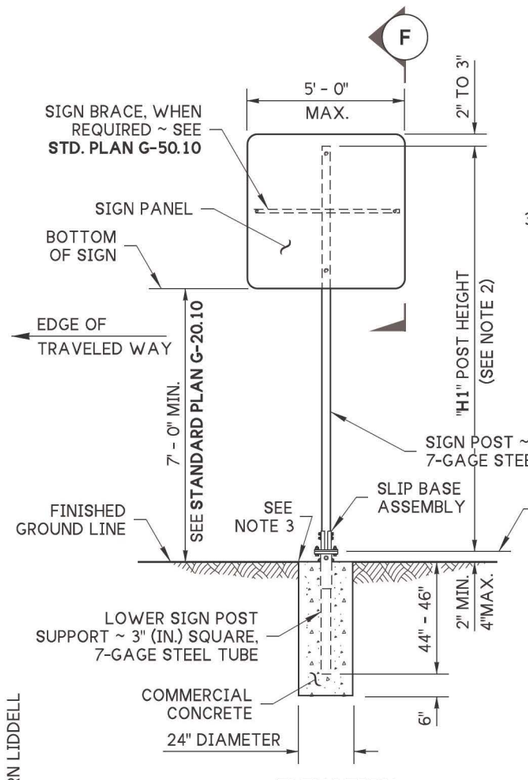
APPROVED FOR PUBLICATION

Mark A Swires Aug 24, 2026

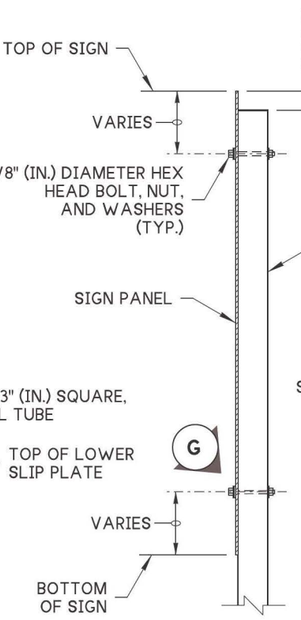
STATE DESIGN ENGINEER

Washington State Department of Transportation

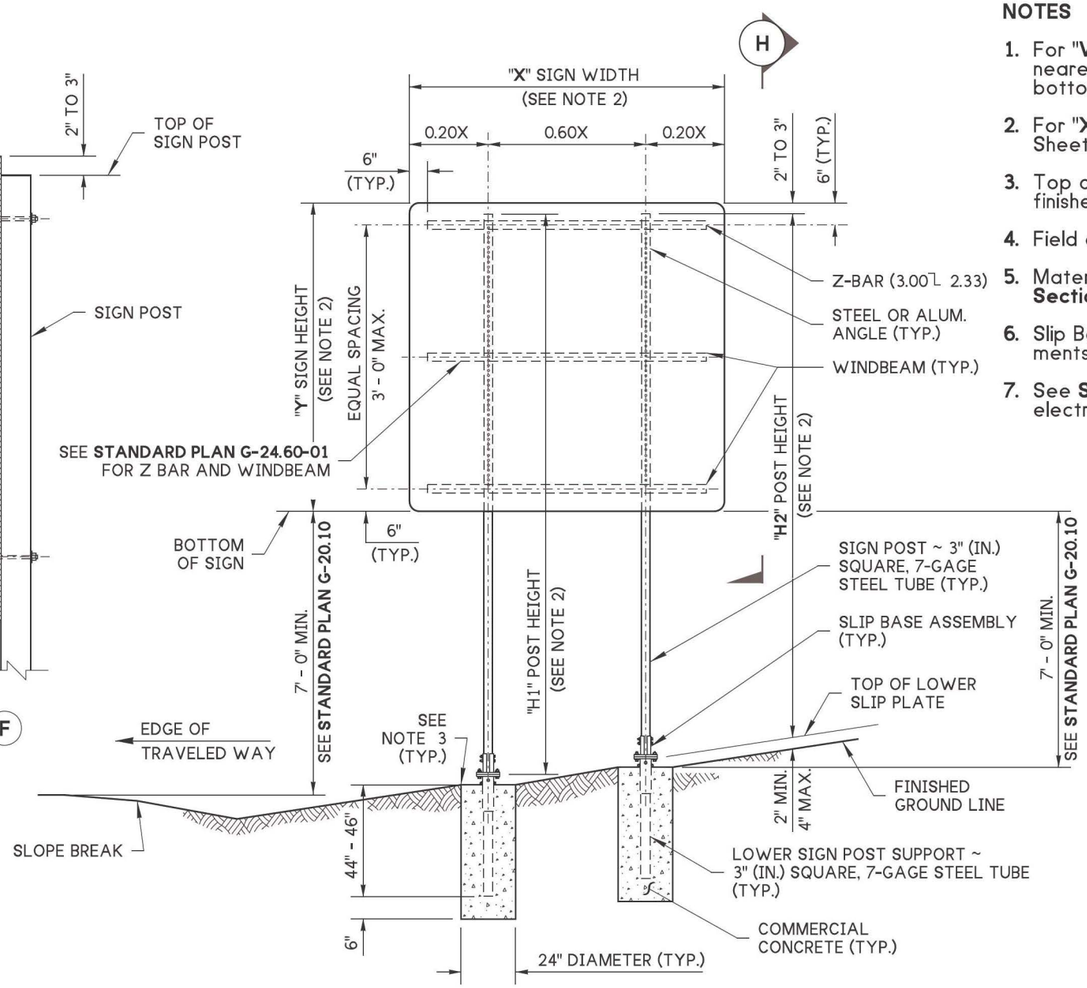
STEEL SIGN SUPPORT TYPES SB-1B, & SB-3B ~ 8" (IN.)
(UNIBASE)



ELEVATION



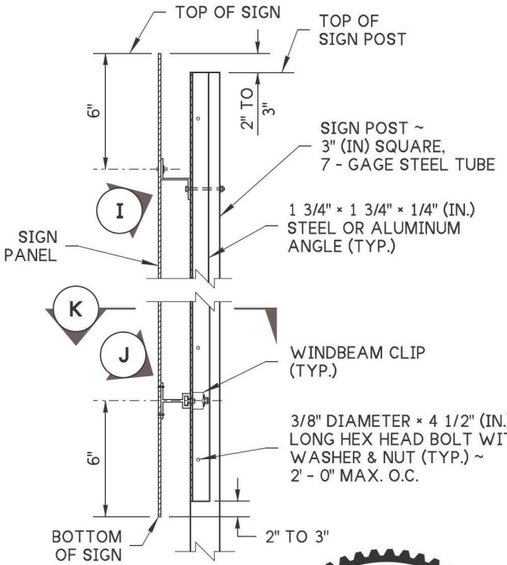
VIEW (F)



ELEVATION
DUAL-POST INSTALLATION

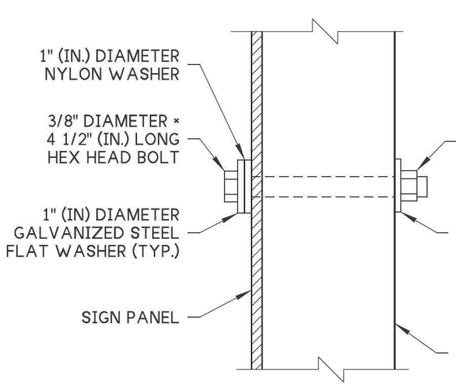
NOTES

1. For "**W**", Horizontal distance from edge of traveled way to center of nearest post, and "V", Vertical distance from edge of traveled way to bottom of sign, see **Standard Plan G-20.10**.
2. For "**X**", "**Y**", "**H1**", "**H2**", "**H3**", and "**H4**", refer to the Sign Specification Sheet in the Contract.
3. Top of concrete foundation shall be smooth, dense, and uniform to finished ground line.
4. Field drill posts to accept angle and cold galvanized holes.
5. Materials shall meet the requirements of **Standard Specification Section 9-28**.
6. Slip Base assembly and all other materials shall meet the requirements of **Standard Specification Sections 9-06** and **9-28**.
7. See **Standard Plan J-40.35** and Contract Plans for installations with electrical devices.

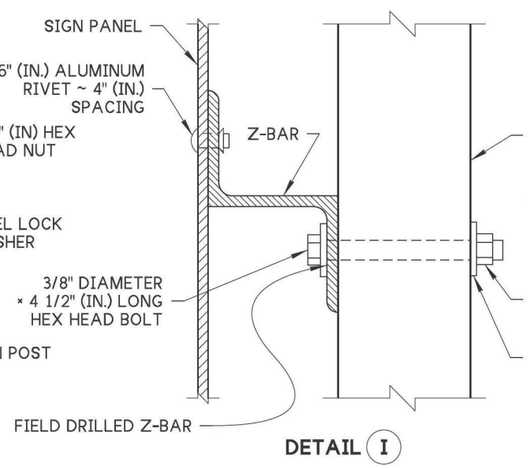


VIEW (H)

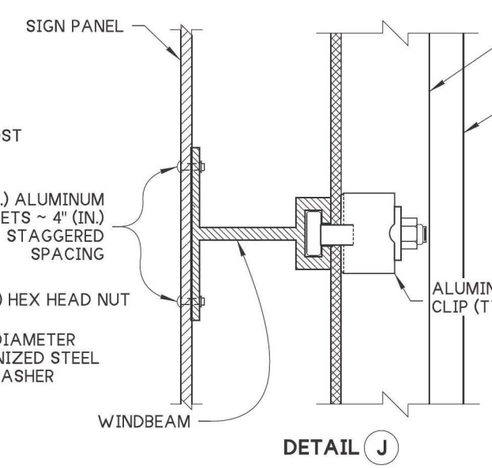
TYPES SB-1, SB-3 BASES			
WINDLOAD FOR SQUARE TUBE POSTS AT 90 MPH			
POSTS	MAXIMUM XYZ		
	1 POST	2 POST	3 POST
3" SOLID POST	310-471 *	472-942 *	943-1413 *
(SEE NOTE 6)			
MAXIMUM 3 SLIP BASES ALLOWED IN 7' SPAN			



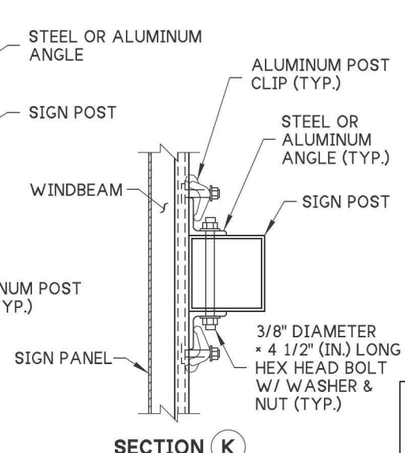
DETAIL (G)



DETAIL (I)



DETAIL (J)



SECTION (K)

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 ~ 10" (IN.)

DRAWN BY: FERN LIDDELL

DINA MARIA SWIRES
STATE OF WASHINGTON
33815
REGISTERED
PROFESSIONAL ENGINEER

Aug 24, 2026

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS

STANDARD PLAN G-24.40-08

SHEET 4 OF 6 SHEETS

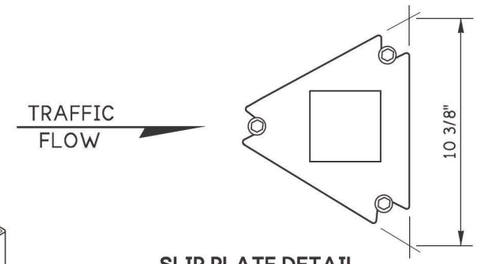
APPROVED FOR PUBLICATION

Mark A Haines Aug 24, 2026

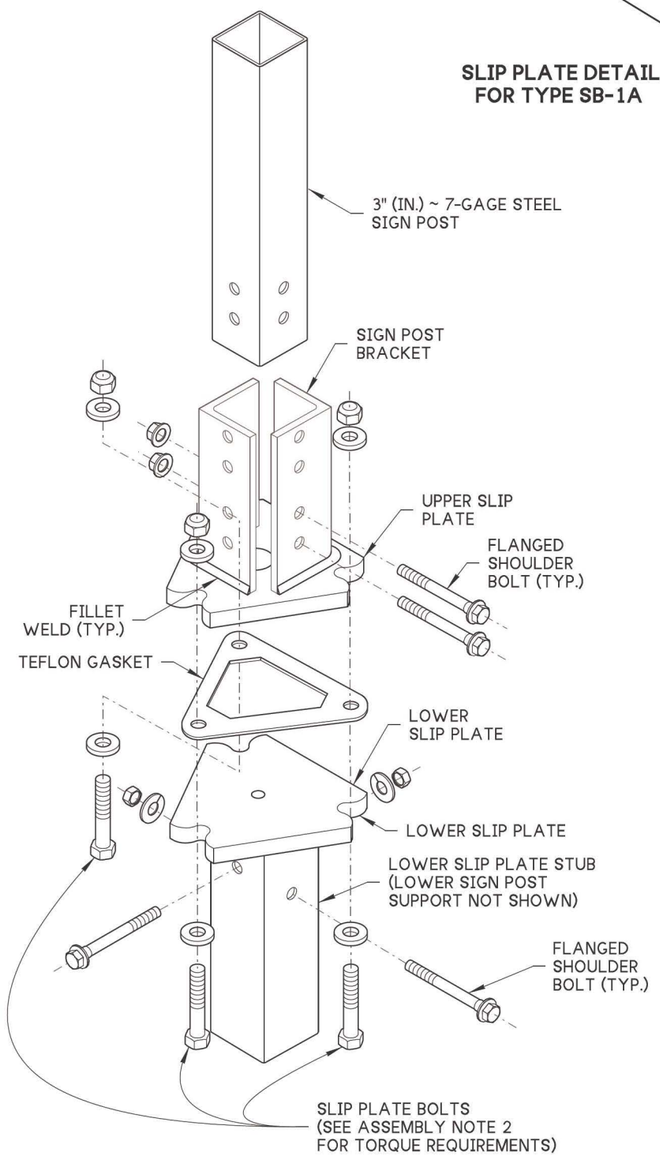
STATE DESIGN ENGINEER

Washington State Department of Transportation

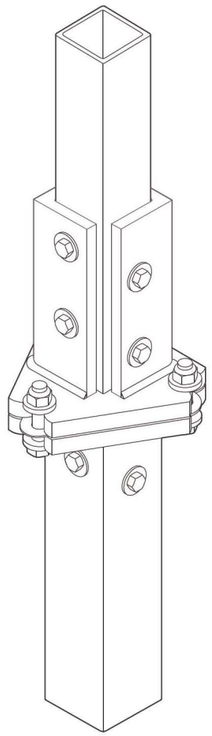
DRAWN BY: FERN LIDDELL



**SLIP PLATE DETAIL
FOR TYPE SB-1A**



EXPLODED VIEW



ISOMETRIC VIEW

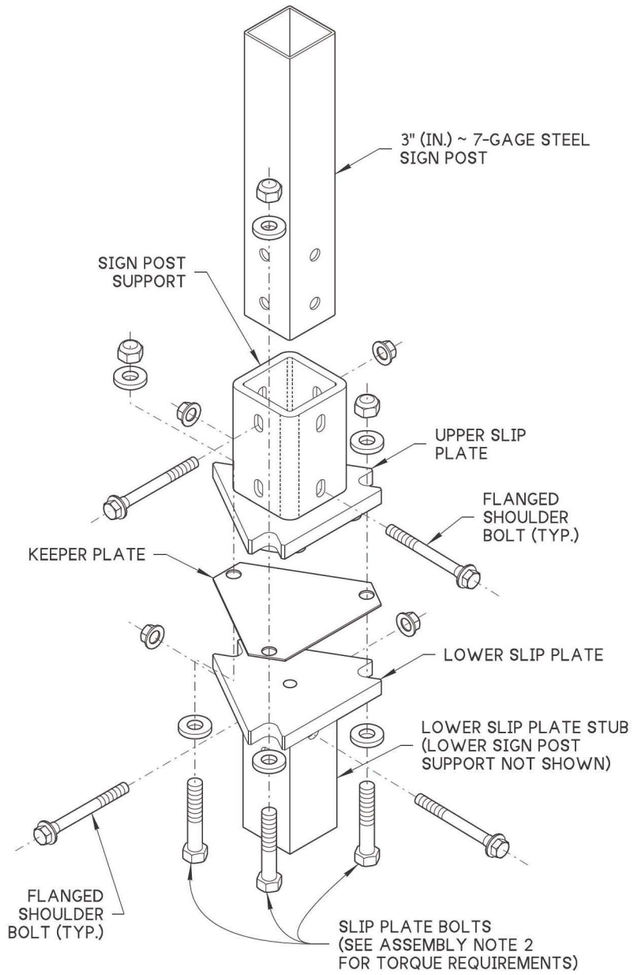
**TYPE SB-1A
SLIP BASE ASSEMBLY**

ASSEMBLY NOTES

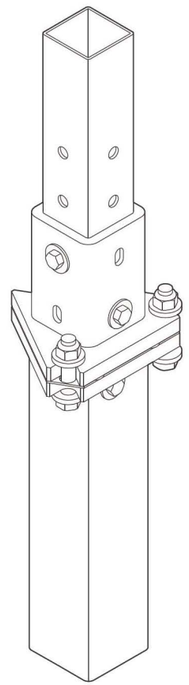
1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with **MASH 16** or **NCHRP 350** crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.

2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.

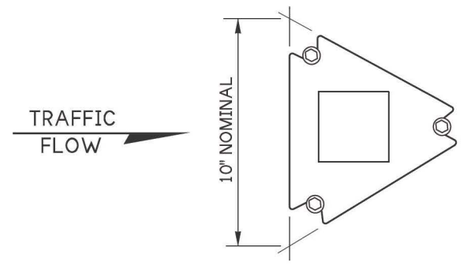
3. Use only Slip Base manufacturer supplied hardware that meets the requirements of **Standard Specification Sections 9-06** and **9-28**.



EXPLODED VIEW



ISOMETRIC VIEW



**SLIP PLATE DETAIL
FOR TYPE SB-3A**

**TYPE SB-3A
SLIP BASE ASSEMBLY**

DINA MARIA SWIRES
STATE OF WASHINGTON
33815
REGISTERED
PROFESSIONAL ENGINEER

Aug 24, 2026

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS

STANDARD PLAN G-24.40-08

SHEET 5 OF 6 SHEETS

APPROVED FOR PUBLICATION

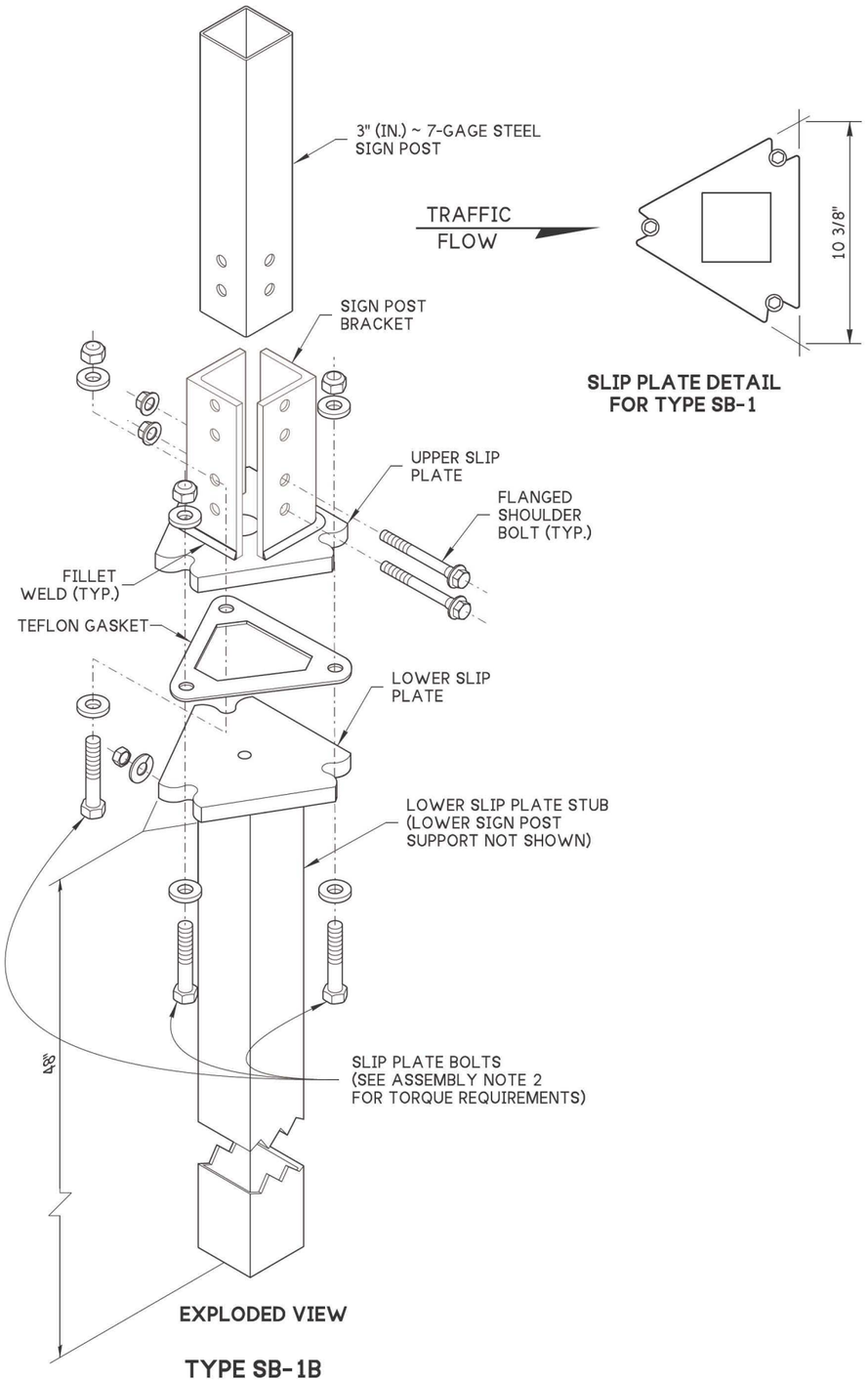
Mark A Swires Aug 24, 2026

STATE DESIGN ENGINEER

Washington State Department of Transportation

STEEL SIGN SUPPORT TYPES SB-1A & SB-3A ~ 10" (IN.)

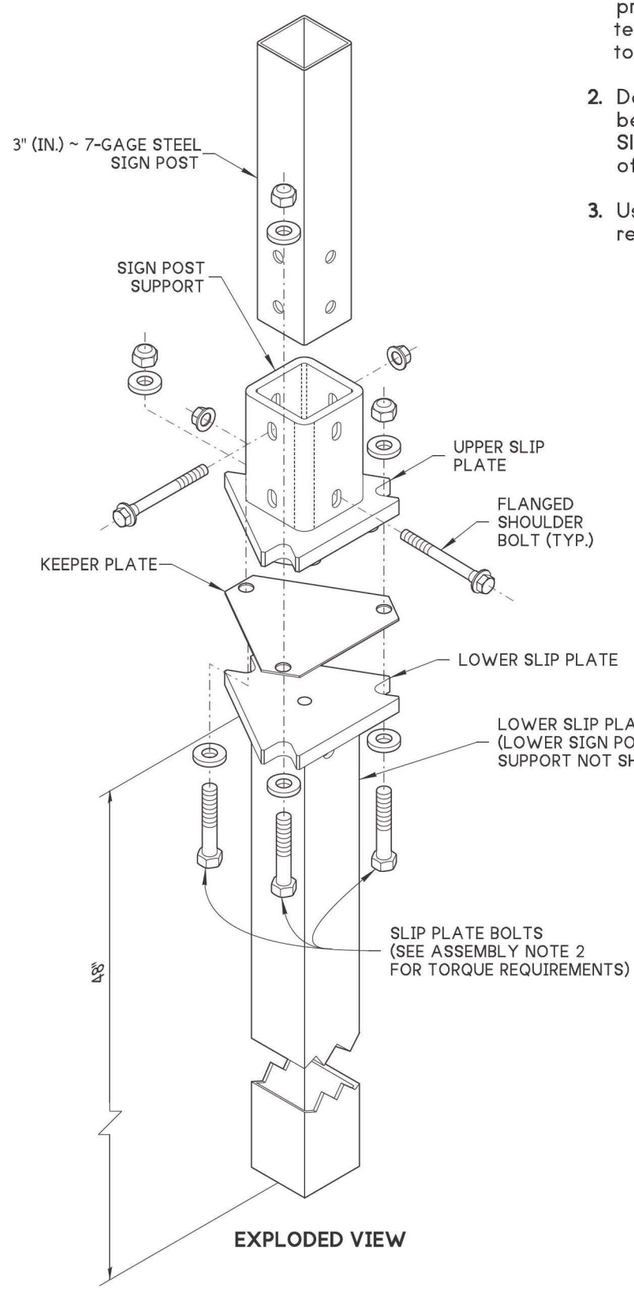
DRAWN BY: FERN LIDDELL



EXPLODED VIEW

TYPE SB-1B
SLIP BASE ASSEMBLY

SLIP PLATE DETAIL FOR TYPE SB-1

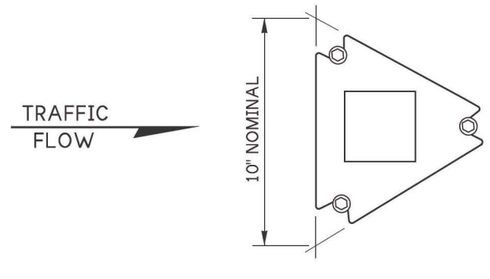


EXPLODED VIEW

TYPE SB-3B
SLIP BASE ASSEMBLY

ASSEMBLY NOTES

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with **MASH 16** or **NCHRP 350** crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.
3. Use only Slip Base manufacturer supplied hardware that meets the requirements of **Standard Specification Sections 9-06** and **9-28**.



SLIP PLATE DETAIL FOR TYPE SB-3

DINA MARIA SWIRES
STATE OF WASHINGTON
33815
REGISTERED
PROFESSIONAL ENGINEER

Aug 24, 2026

STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS

STANDARD PLAN G-24.40-08

SHEET 6 OF 6 SHEETS

APPROVED FOR PUBLICATION

Mark A Swires Aug 24, 2026

STATE DESIGN ENGINEER

Washington State Department of Transportation

STEEL SIGN SUPPORT TYPE SB-1B & SB-3B ~ 10" (IN.)
(UNIBASE)