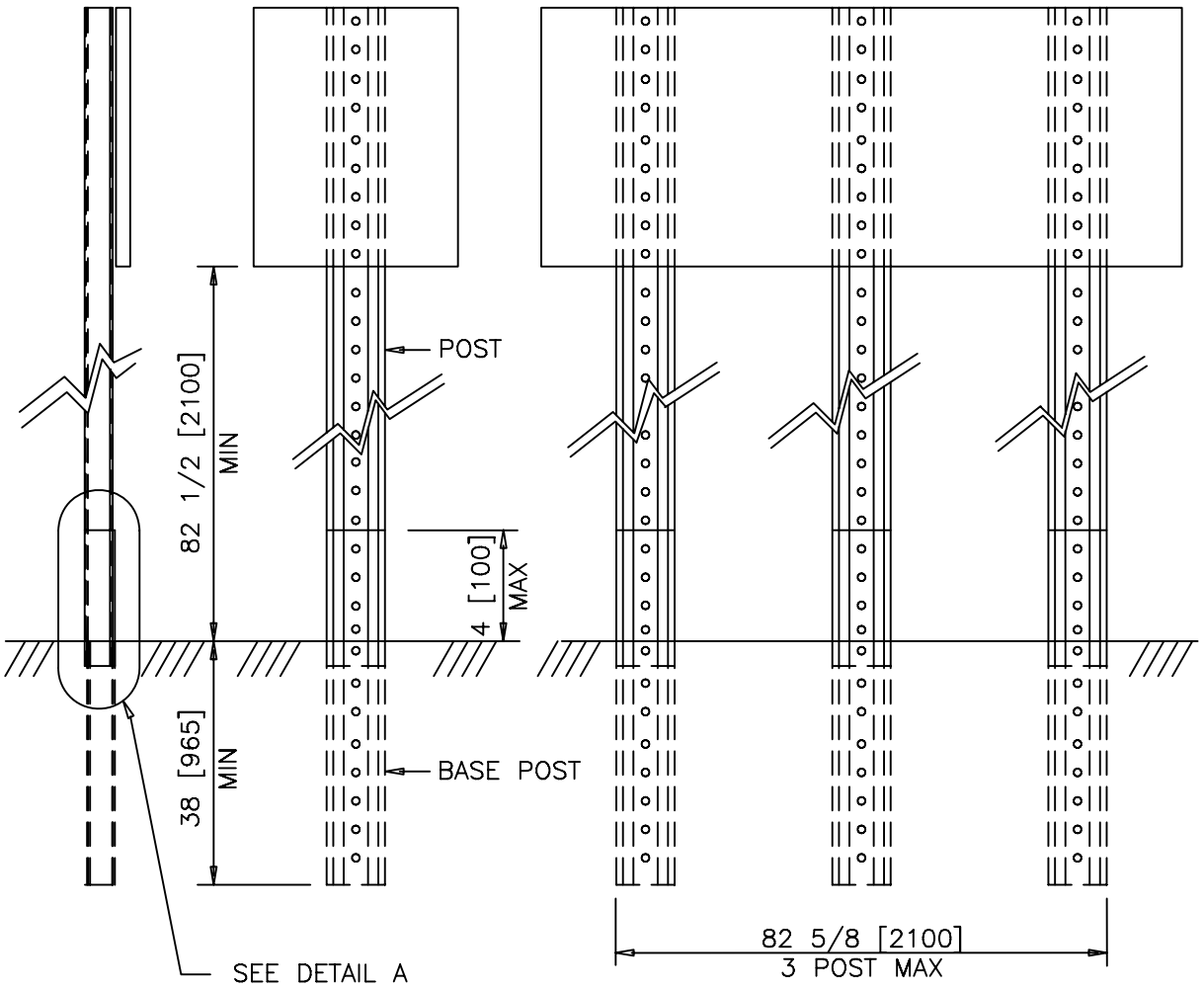


SSP14a

SSP14c

SIDE

FRONT

POST DESIGNATOR	POST DESIGNATOR BASE
PFP42a–b	PFP06

SSP14b Not Shown

LAP SPLICE BREAKAWAY SYSTEM

NUCOR
BAR MILL GROUP
NUCOR STEEL MARION, INC.

SSP14a–c

SHEET NO.	DATE:
1 of 4	05/10/07

INTENDED USE

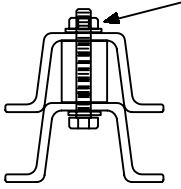
The patented Lap Splice™ breakaway system can be used as a single (SSP14a), double (SSP14b) or triple post (SSP14c) sign support system within a 82 5/8 [2100] span. These systems have been successfully crash tested in both weak and strong soil and were evaluated in accordance with NCHRP Report 350 guidelines. The system meets or exceeded all of the requirements of the 1994 AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals*. It has also been approved by FHWA for use on Federal Aid Projects.

COMPONENTS

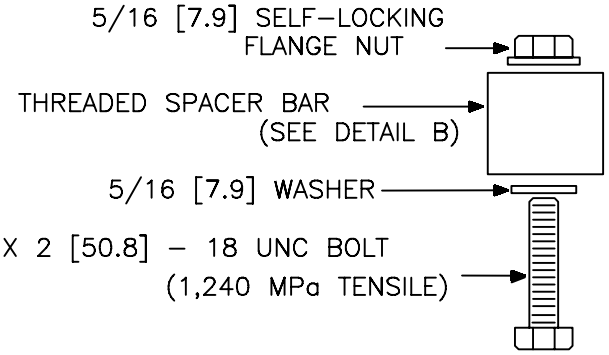
The Lap Splice™ breakaway system shall consist of three parts: a base post (PFP05-06), a signpost (PFP42a-b) and the splice hardware, which includes a patented threaded spacer bar. The base post shall be 42 [1067] mm long and can be optionally tapered at one end. The base post must be of greater weight than the top post, the PFP06 post is recommended.

The proprietary Lap Splice ™ Spacer Bar hardware consists of two fully threaded 5/16 x 2 [7.9 x 50.8] long plated hex head bolts, two flat washers, and two locking flange nuts (the hex bolts are identified by head markings of "L9", as well as a red finish), one 5 [127] x 1 [25.4] x 1 1/8 [28.6] threaded spacer bar. Each spacer bar will be drilled and tapped (18 UNC). The spacer bar shall be fabricated from hot rolled carbon steel bars conforming to AASHTO M183M (ASTM A36M) or M1020. Splice hardware shall be cadmium plated in accordance with the requirements of ASTM A165 or zinc plated in accordance with the requirements of ASTM B633.

A soil stabilization plate (PLS02) is available for situations when additional soil support is needed. The plate's primary function is providing increased stability to the base post for greater wind load carrying purposes, and increasing the integrity of the base post during vehicular impact. The soil plate is required in soft soil for triple-post installations (SSP04c) that use the PFP06 signpost and is optional in all other configurations.

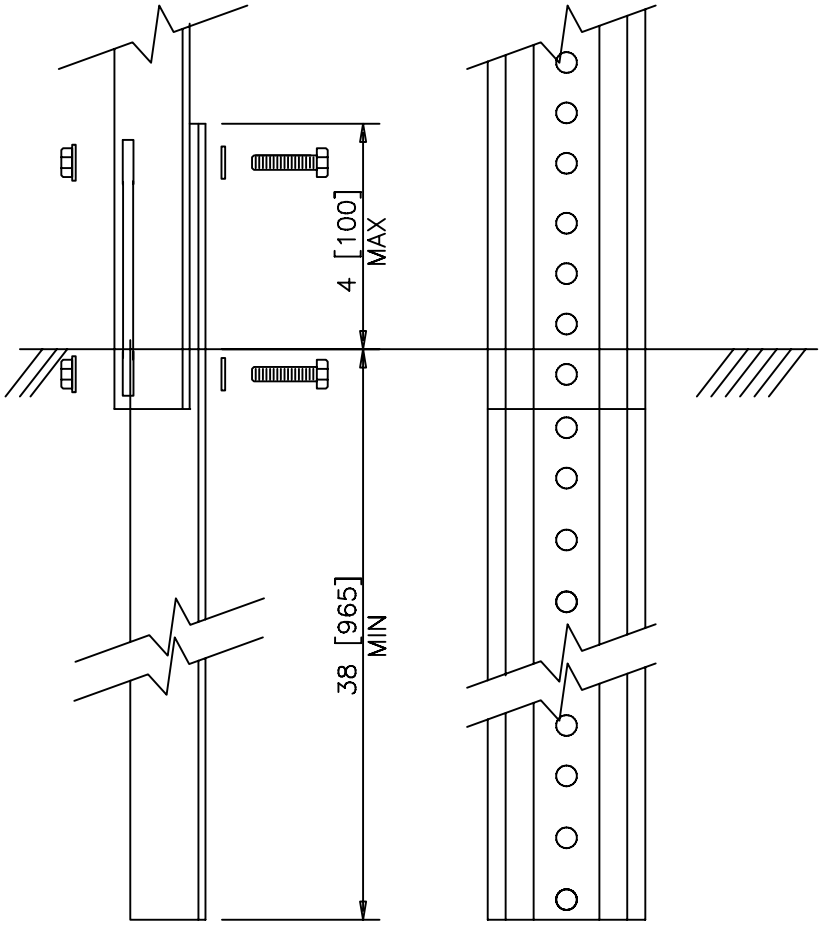


TOP



DETAIL C

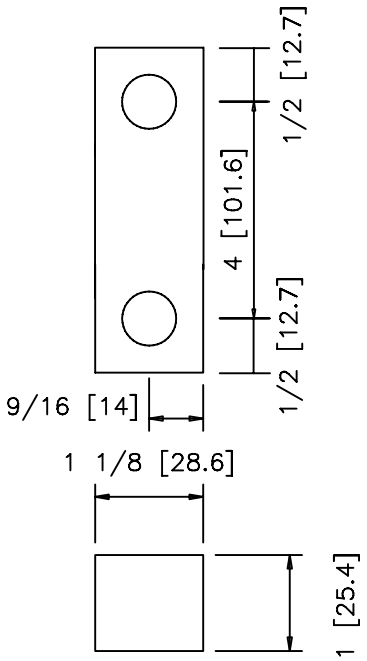
CONNECTORS (PROPRIETARY)



SIDE FRONT

DETAIL A

SPLICE CONNECTION



DETAIL B

LAP SPLICE SPACER BAR (PROPRIETARY)

LAP SPLICE BREAKAWAY SYSTEM

NUCOR
BAR MILL GROUP
NUCOR STEEL MARION, INC.

SSP14a–c

SHEET NO.	DATE:
3 of 4	05/10/07

APPROVALS

FHWA Acceptance Letter SS-83, 07/19/1999

REFERENCES

L.A. Staron, “Breakaway Sign Supports,” Geometric and Roadside Design Acceptance Letter SS-13, Federal Highway Administration, Washington, D.C., October 2, 1989.

L.A. Staron, “Breakaway Sign Supports,” Geometric and Roadside Design Acceptance Letter SS-13, Federal Highway Administration, Washington, D.C., July 13, 1996.

S.I. Sillan, “Breakaway Sign Supports,” Geometric and Roadside Design Acceptance Letter SS-13, Federal Highway Administration, Washington, D.C., March 14, 1996.

CONTACT INFORMATION

The Nucor Steel Marion Inc., 912 Cheney Avenue, Marion, Ohio 43301-1801
(800) 333-4011
(740) 383-6429 Fax
www.nsmarion.com

** All Nucor Steel Marion Inc products are produced from 100% recycled steel.*

LAP SPLICE BREAKAWAY SYSTEM

SSP14a-c

SHEET NO.	DATE
4 of 4	05/02/2007

NUCOR
BAR MILL GROUP
NUCOR STEEL MARION, INC.