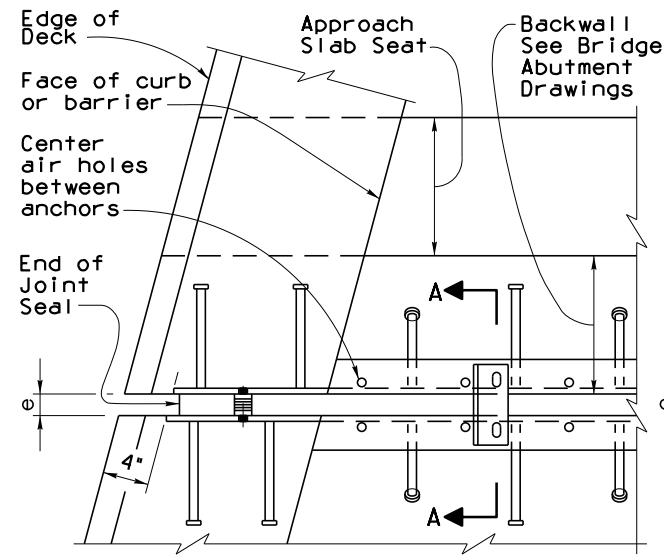
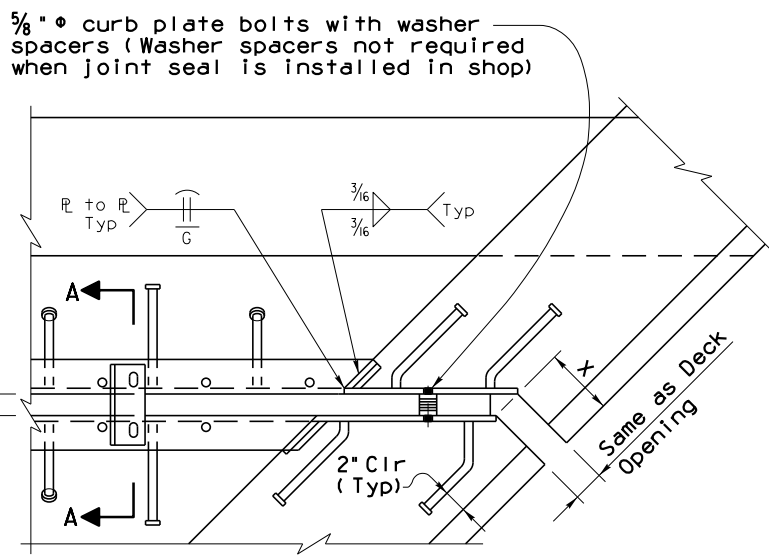


Note to Designer: The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

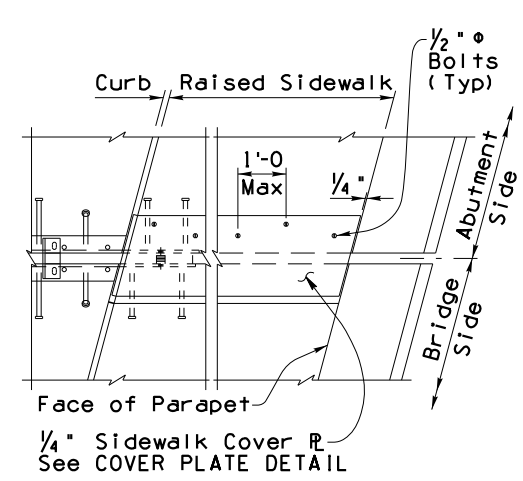
06/09
 PRIOR DISTRIBUTION DATE



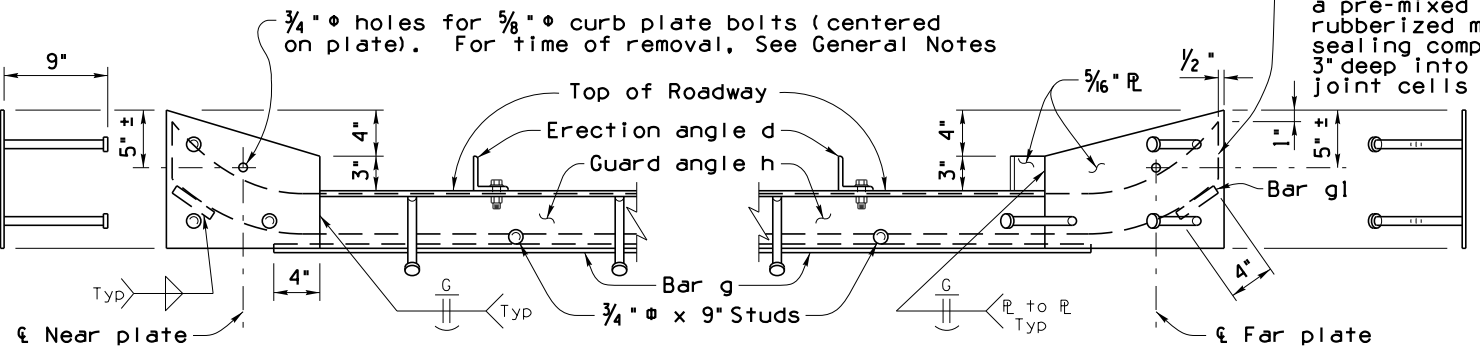
FOR SKEWS 0° THRU 20°



FOR SKEWS 21° THRU 45°



PLAN AT SIDEWALK

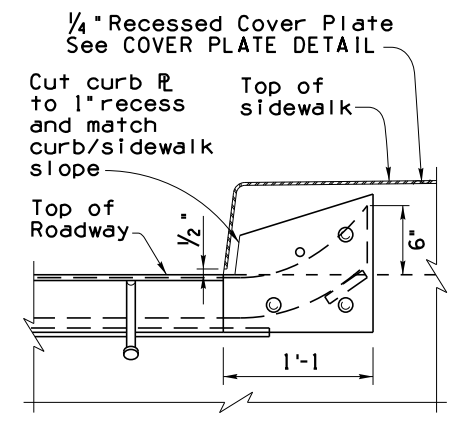


FOR SKEWS 0° THRU 20°

FOR SKEWS 21° THRU 45°

ELEVATION

(Near angle shown, far angle similar)

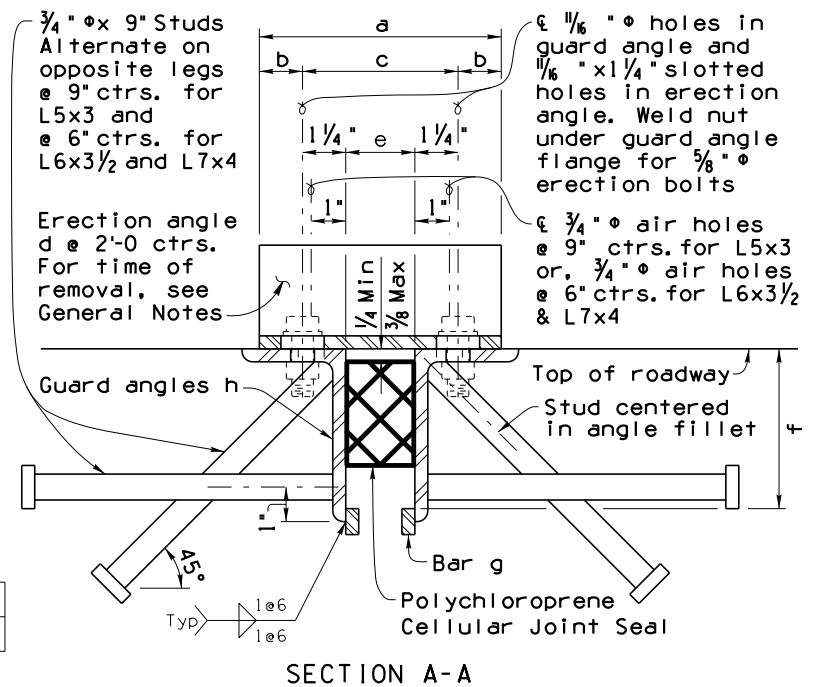


ELEVATION AT SIDEWALK

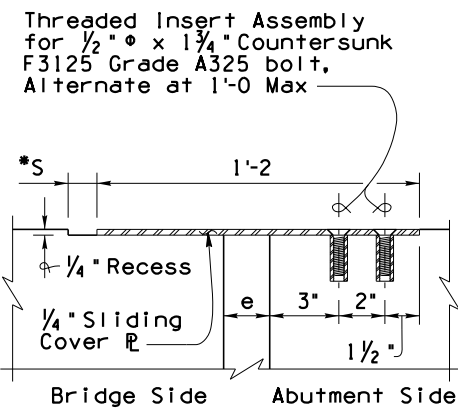
Polychloroprene Cellular Joint Seal (Nominal Dimensions - Inches)				
	2 x 2	3 x 3	4 x 4	5 x 5
a	6 1/2	7	7 1/2	8
b	1 3/8	1 5/16	1 1/4	1 1/4
c	3 3/4	4 3/8	5	5 1/2
d	L 2x2x1/4	L 3x3x3/8	L 3 1/2 x 3 1/2 x 3/8	L 4x4x3/8
e max	1.625	2.500	3.375	4.250
e min	0.875	1.250	1.625	1.750
f	3 5/8	4 5/8	5 5/8	6 5/8
g or g1	1/4 x 3/4 bar	3/8 x 3/4 bar	1/2 x 3/4 bar	5/8 x 3/4 bar
h	L 5x3x3/8	L 5x3x3/8	L 6x3 1/2 x 3/8	L 7x4x1/2
M. R.	3/4	1 1/4	1 3/4	2 1/2

M. R. = Movement rating (The difference between the smallest and the largest width of seal in place)

Skew Angle	21° - 33°	34° - 36°	37° - 40°	41° - 43°	44° - 45°
Dimension X	4"	4 1/2"	5"	5 1/2"	6"



SECTION A-A



COVER PLATE DETAIL

*S = M. R. / 2 + 1/2"

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

Structural steel shall conform to ASTM A588 Grade 50 or A709 Grade 50W.

Steel anchor studs shall conform to ASTM A108 Grades 1015, 1018 or 1020.

Cellular joint seal shall meet the requirements of ADOT Standard Specification 1011-5.

Sidewalk cover plate shall be galvanized A36 steel with non-slip (deformed) surface. All cover plate bolts shall be A325 galvanized.

The bottom of the barrier or curb sliding cover plates shall be 1/2" higher than the top of the roadway.

All welding shall conform to the requirements of the American Welding Society, Bridge Welding Code, D1.5, latest Edition.

Guard angles and cellular seal shall be one piece, without splices, for lengths 60 feet or less.

For lengths over 60 feet or phase construction, guard angles and cellular seal may be two pieces butted together at crown or another location away from drainage.

Prior to installation of the seal and lubricant adhesive, steel contact surfaces with the seal shall be cleaned and prepared in accordance with the seal mfg. requirements.

Joint opening e shall be adjusted in the field for any variation of temperature above or below the mean temperature. See bridge drawings for mean temperature and temperature correction chart.

Erection angles and curb plate bolts shall be removed immediately after deck joint is fully encased in concrete (except curb or barrier concrete), and such concrete has attained its initial set (2 hours ±).

Holes for curb plate bolts shall be plugged before placing curb/barrier concrete.

The Contractor shall take due care in the placement of the concrete under the joint angles to ensure that proper consolidation is achieved. After placement, the Engineer shall inspect the joint for voids by sounding the angle with a hammer. All voids shall be repaired by the Contractor by epoxy injection at no cost to the Department.

Dimensions shall not be scaled from drawings.

Item No.	Deck Joint Assembly	Measure
6011346	2x2 Compression Seal	LF
6011347	3x3 Compression Seal	LF
6011348	4x4 Compression Seal	LF
6011349	5x5 Compression Seal	LF

STANDARDS ENGINEER
A. ALZUBI
 RECOMMENDED FOR APPROVAL
 GROUP MANAGER
D. EBERHART
 APPROVED
 STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION
 DATE 01/20

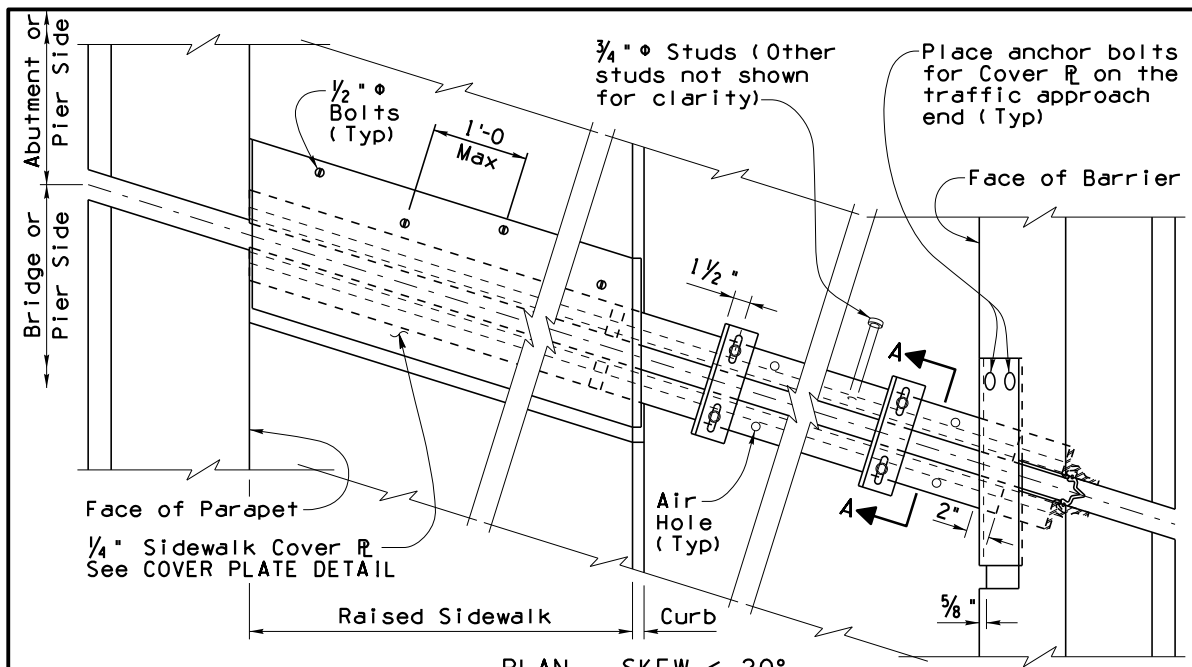
ARIZONA DEPARTMENT OF TRANSPORTATION
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
 BRIDGE GROUP STANDARD DRAWING

DECK JOINT ASSEMBLY
 COMPRESSION SEAL

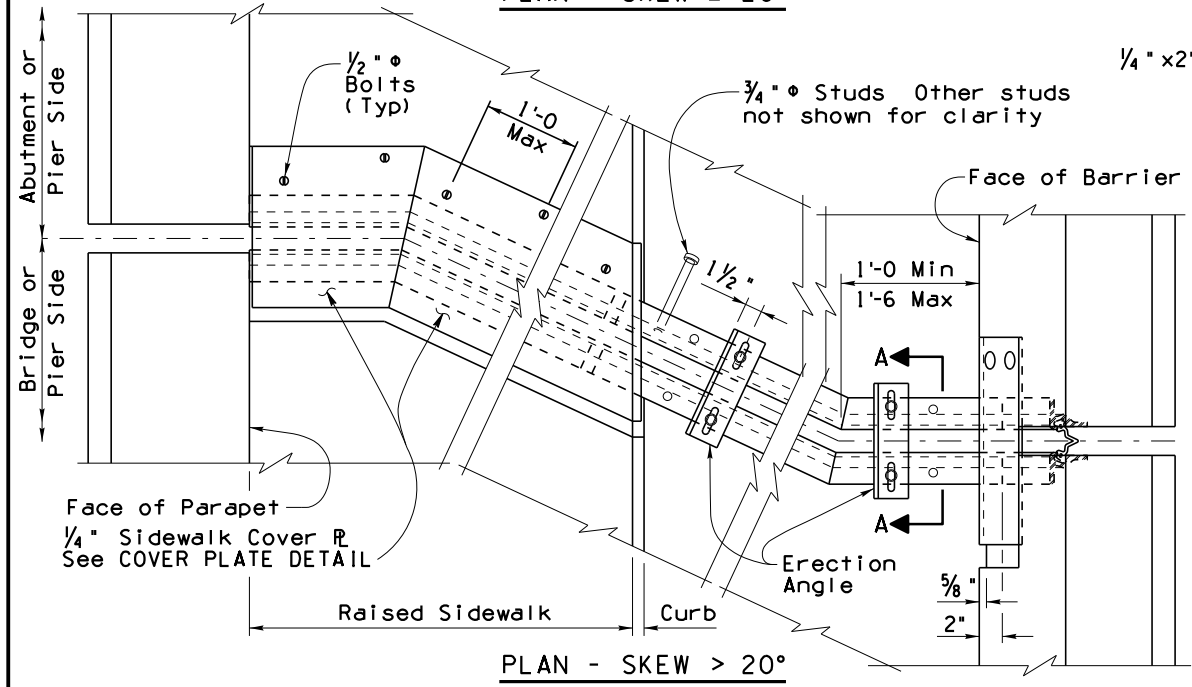
DRAWING NO.
 SD 3.01

Note to Designer: The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

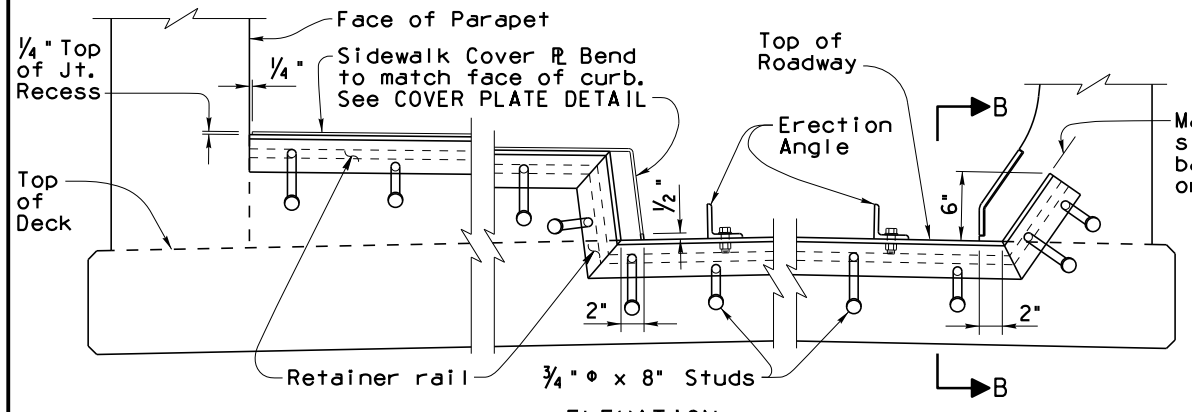
12/09
 PRIOR DISTRIBUTION DATE



PLAN - SKEW $\leq 20^\circ$

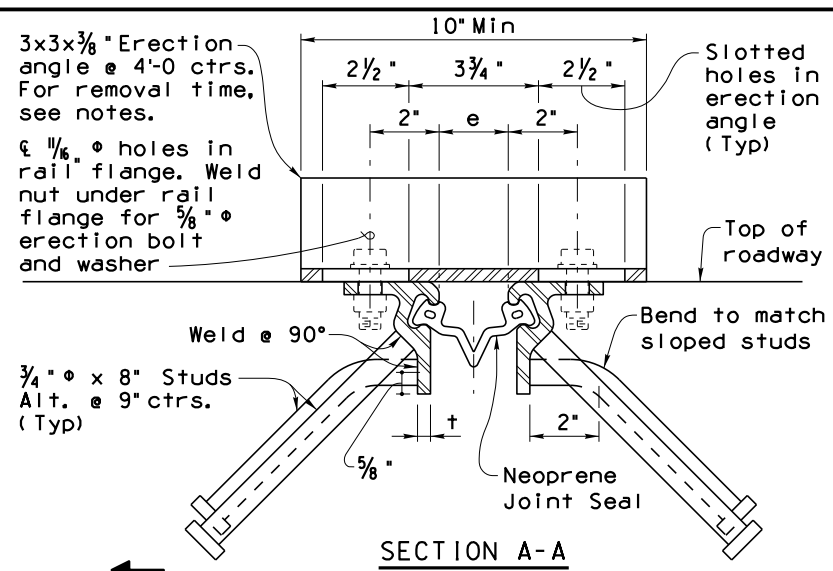


PLAN - SKEW $> 20^\circ$

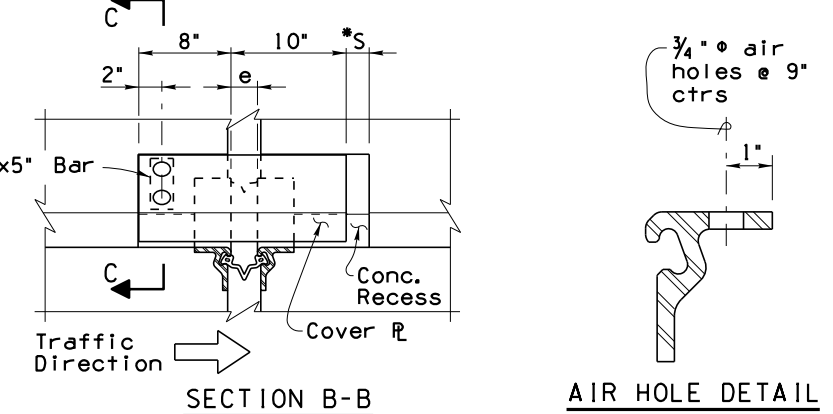


ELEVATION

Item	Deck Joint Assembly (Strip Seal)
Item No.	6011345
Measurement	Linear Foot

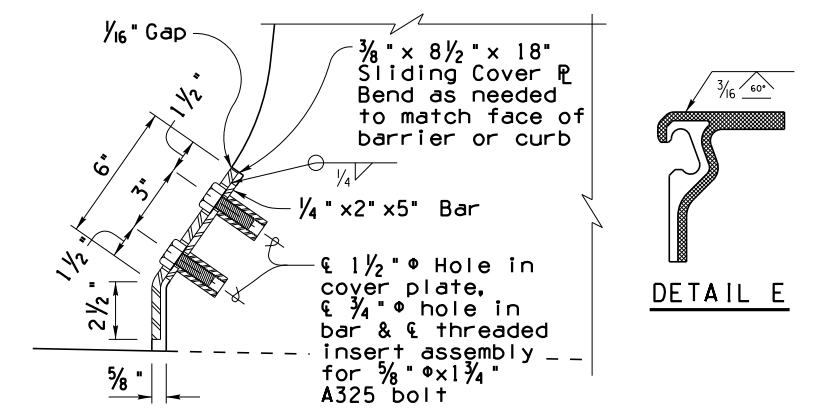


SECTION A-A



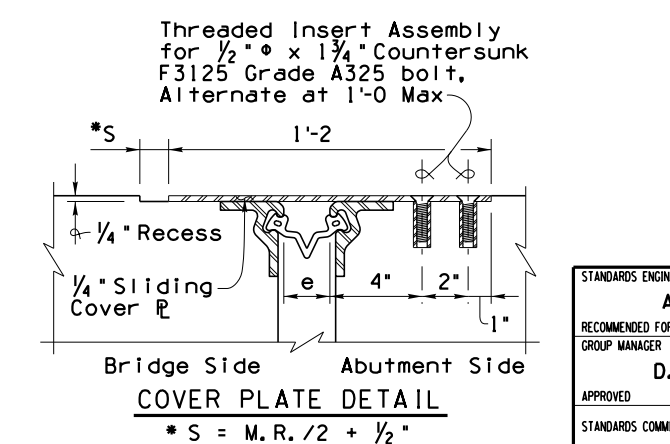
SECTION B-B

AIR HOLE DETAIL



SECTION C-C

DETAIL E



COVER PLATE DETAIL

* S = M.R. / 2 + 1/2"

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.
 Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

The Strip Seal Joint may only be used for movement ratings of 4 inches or less. Joint opening e and movement rating M.R. may require adjustment during shop drawing review to accommodate the manufacturer minimum seal installation width.

Retainer rail extrusions shall conform to ASTM A588 Grade 50 or A709 Grade 50W:

Steel anchor studs shall conform to ASTM A108 Grades 1015, 1018 or 1020.

Retainer rails shall be one continuous full length installed piece. Retainer rails shall be supplied in maximum practical lengths that are consistent with normal manufactured rail length.

Rail splices, when required, shall be welded in the shop or field per DETAIL E. Mitered rail turns shall be welded similar to DETAIL E.

The strip seal shall meet the requirements of ADOT Standard Specification 1011-5. The strip seal shall be supplied in one continuous full length piece without splices.

Sidewalk cover plates shall be A36 galvanized steel with non-slip (deformed) surface. Barrier or curb cover plates shall be A36 galvanized steel. All cover plate bolts shall be A325 galvanized.

The bottom of the barrier or curb sliding cover plates shall be 1/2 inch higher than the top of the roadway.

All welding shall conform to the requirements of the American Welding Society, Bridge Welding Code, D1.5, latest Edition.

Prior to installation of the seal and lubricant adhesive, steel contact surfaces with the seal shall be cleaned and prepared in accordance with the seal manufacturer requirements.

Joint opening e shall be adjusted in the field for any variation of temperature above or below the mean temperature. See bridge drawings for mean temperature, e, and temperature correction chart.

Erection angles shall be removed immediately after deck joint is fully encased in concrete (except sidewalks, curbs or barriers), and such concrete has attained it's initial set (2 hours ±).

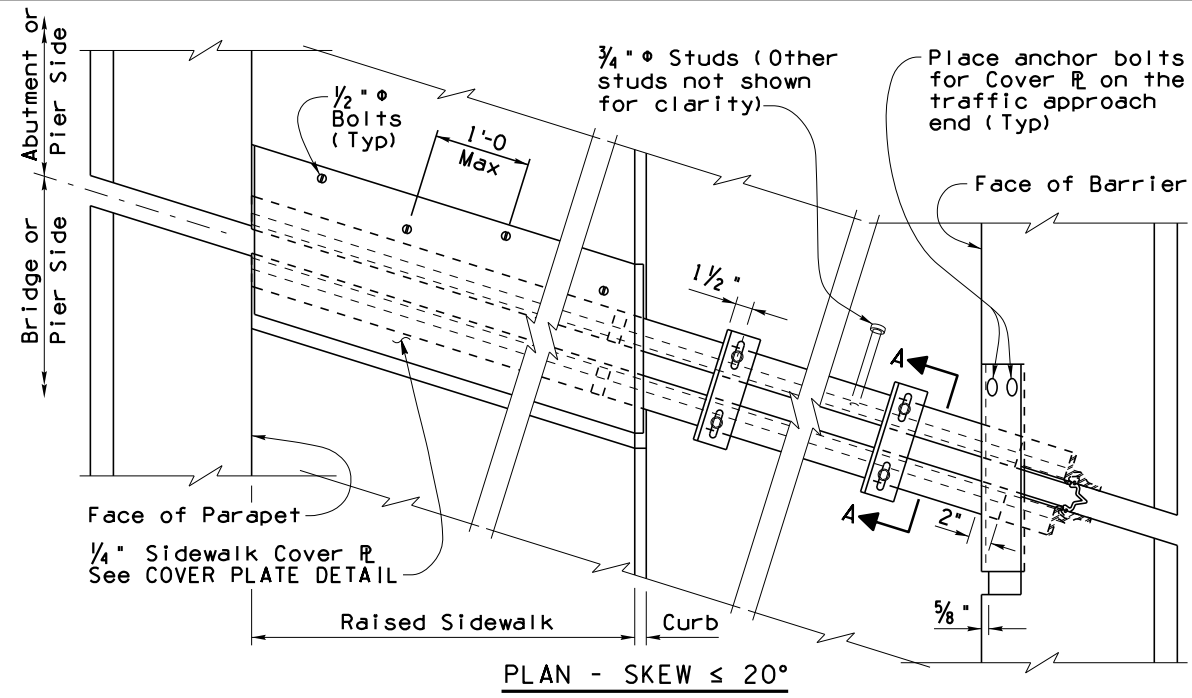
The Contractor shall take due care in the placement of the concrete under and around the joint angles to ensure that proper consolidation is achieved. After placement, the Engineer shall inspect the joint for voids by sounding the angle with a hammer. All voids shall be repaired by the Contractor by epoxy injection at no cost to the Department.

Dimensions shall not be scaled from drawings.

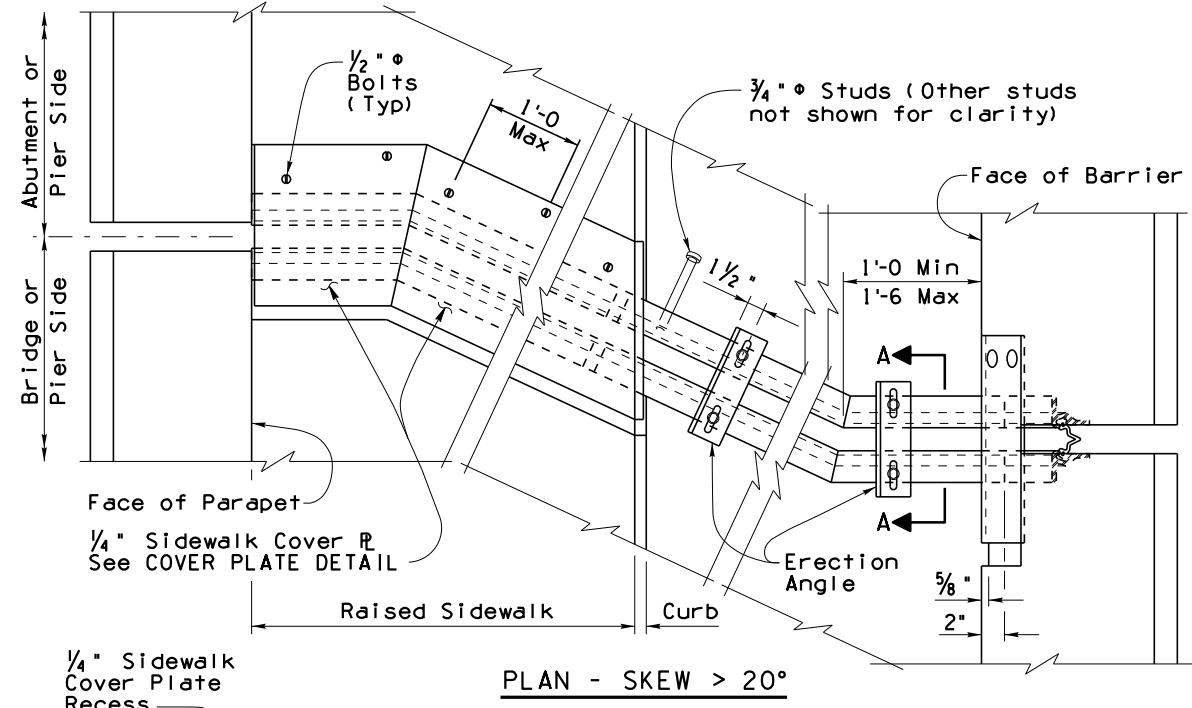
STANDARDS ENGINEER A. ALZUBI	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING	DRAWING NO. SD 3.02
RECOMMENDED FOR APPROVAL GROUP MANAGER D. EBERHART		
APPROVED STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION	DECK JOINT ASSEMBLY STRIP SEAL	DATE 01/20

Note to Designer: The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

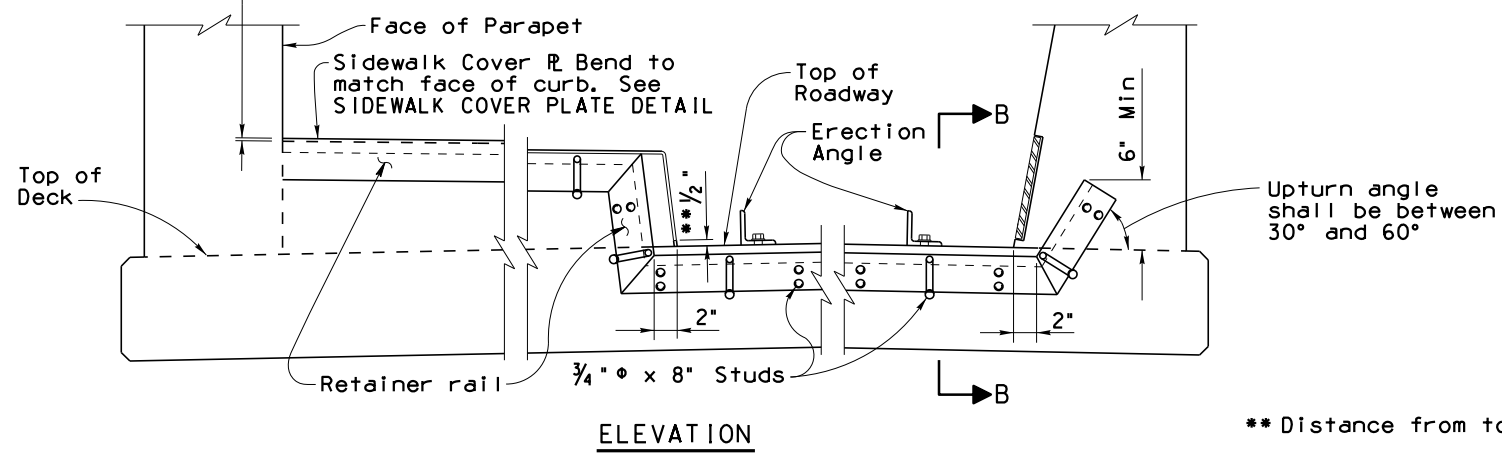
12/09
 PRIOR DISTRIBUTION DATE



PLAN - SKEW $\leq 20^\circ$



PLAN - SKEW $> 20^\circ$



ELEVATION

** Distance from top of roadway

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017

The Strip Seal Joint may only be used for movement ratings of 4 inches or less. Joint opening e and movement rating M.R. may require adjustment during shop drawing review to accommodate the manufacturer minimum seal installation width.

Steel retainer rails shall conform to ASTM A572 Grade 50, ASTM A588 Grade 50, or ASTM A709 Grade 36 or Grade 50W.

Steel anchor studs shall conform to ASTM A108 Grades 1015, 1018 or 1020.

Steel retainer rails shall be one continuous full length installed piece. Retainer rails shall be supplied in maximum practical lengths that are consistent with normal manufactured rail length. Rail splices, when required, shall be welded in the shop or field per DETAIL E. Mitered rail turns shall be welded similar to DETAIL E.

The neoprene seal shall meet the requirements of ADOT's Standard Specification 1011-5. The neoprene seal shall be supplied in one continuous full length piece without splices.

Sidewalk cover plates shall be A36 galvanized steel with non-slip (deformed) surface. Barrier or curb cover plates shall be A36 galvanized steel. All cover plate bolts shall be A325 galvanized.

The bottom of the barrier or curb sliding cover plates shall be 1/2 inch higher than the top of the roadway.

All welding shall conform to the requirements of the American Welding Society, Bridge Welding Code, D1.5, latest Edition.

Prior to installation of the seal and lubricant adhesive, steel contact surfaces with the seal shall be cleaned and prepared in accordance with the seal manufacturer requirements.

Joint opening e shall be adjusted in the field for any variation of temperature above or below the mean temperature. See bridge drawings for mean temperature, e , and temperature correction chart.

Erection angles shall be removed immediately after deck joint is fully encased in concrete (except sidewalks, curbs or barriers), and such concrete has attained its initial set (2 hours \pm).

The contractor shall verify all dimensions prior to fabrication to ensure the accuracy of the expansion joint.

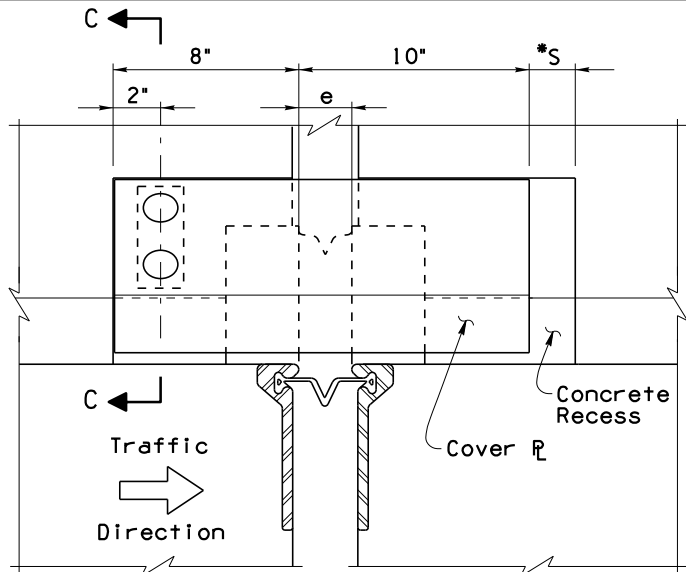
The Contractor shall take due care in the placement of the concrete under and around the joint rails to ensure that proper consolidation is achieved. After placement, the Engineer shall inspect the joint for voids by sounding the angle with a hammer. All voids shall be repaired by the Contractor by epoxy injection at no cost to the Department.

Dimensions shall not be scaled from drawings.

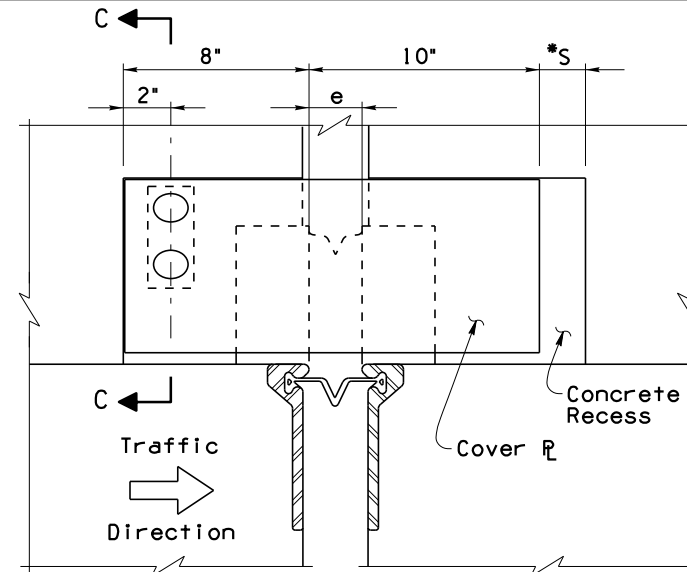
Item	Deck Joint Assembly (Flangeless Strip Seal)
Item No.	6011343
Measurement	Linear Foot

STANDARD ENGINEER A. ALZUBI	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING	DRAWING NO. SD 3.03 (1 of 2)
RECOMMENDED FOR APPROVAL GROUP MANAGER D. EBERHART		
APPROVED STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION	DECK JOINT ASSEMBLY FLANGELESS STRIP SEAL	01/20 DATE

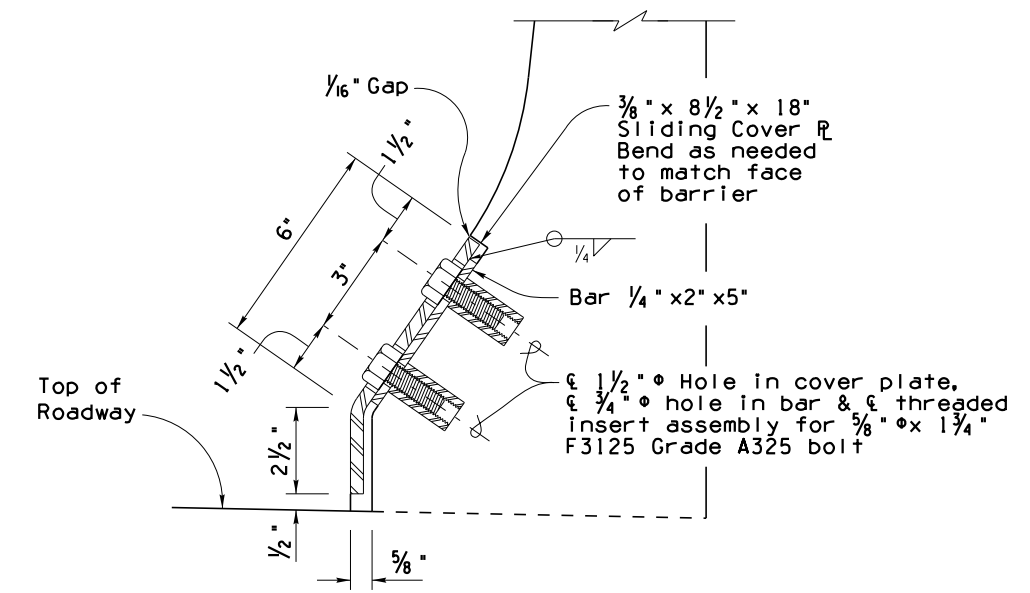
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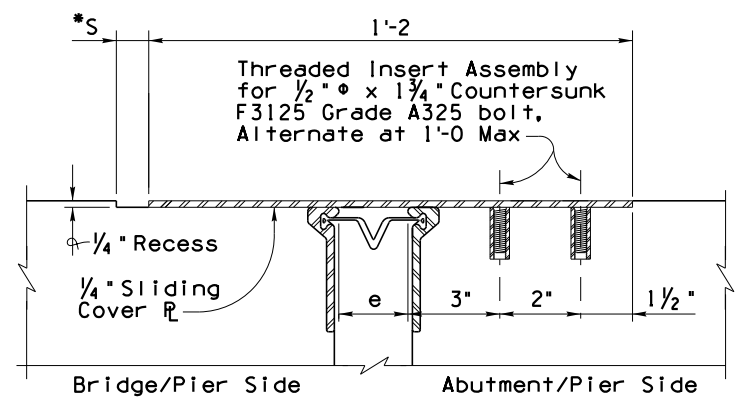
SECTION B-B
F-SHAPE BARRIER



SECTION B-B
SINGLE SLOPE BARRIER

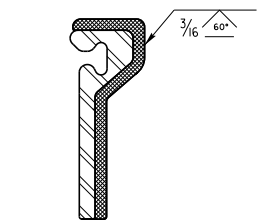


SECTION C-C
F-SHAPE BARRIER

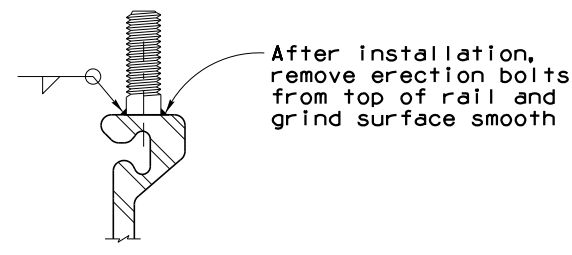


SIDEWALK COVER PLATE DETAIL

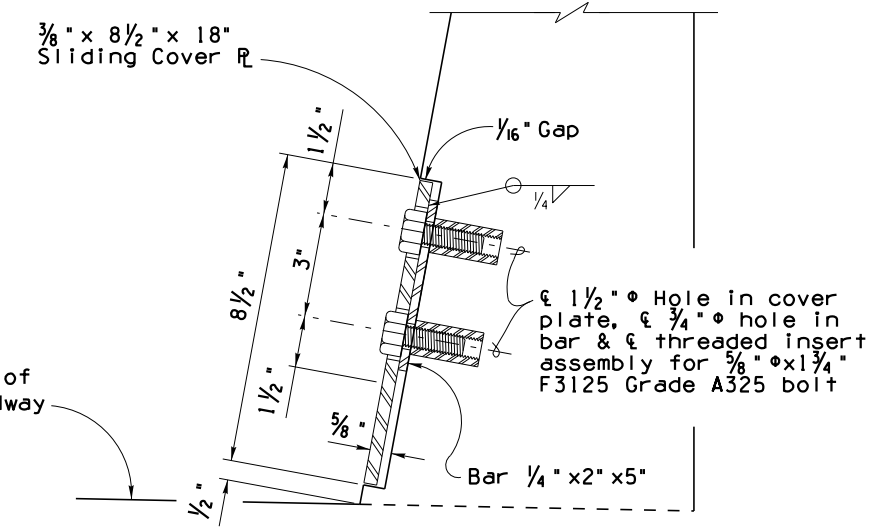
* S = M.R. / 2 + 1/2"



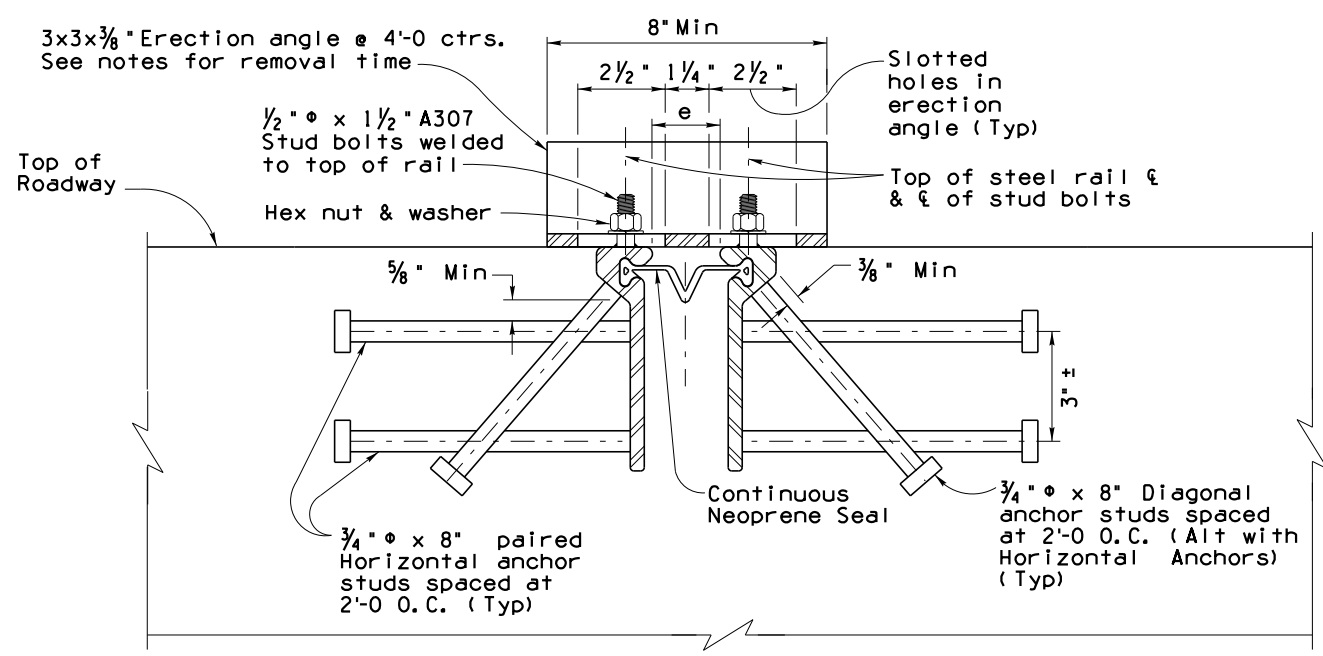
DETAIL E



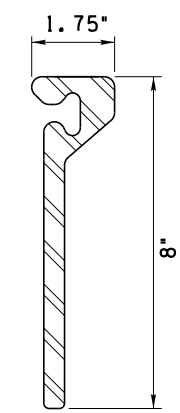
STUD WELD DETAIL



SECTION C-C
SINGLE SLOPE BARRIER



SECTION A-A



DETAIL F

NOTE:
Steel rail dimensions shown are minimums, and may vary between manufacturers.

12/09
 PRIOR DISTRIBUTION DATE

STANDARDS ENGINEER A. ALZUBI	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING	DRAWING NO. SD 3.03 (2 of 2)
RECOMMENDED FOR APPROVAL GROUP MANAGER D. EBERHART		
APPROVED STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION	01/20 DATE	