

ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information – Incomplete forms will be returned)

Contact Information:

Date: December 20, 2018
Originator: Cheryl Hudson
Phone: (850) 414-5332
Email: cheryl.hudson@dot.state.fl.us

Standard Plans:

Index Number: 458-100
Sheet Number (s): 1, 2
Index Title: Expansion Joint System - Strip Seal

Summary of the changes:

Changed Elastomeric Seal to Strip Seal throughout Index

Commentary / Background:

Allow for new product materials

Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes | No | |
|--------------------------|-------------------------------------|-----------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

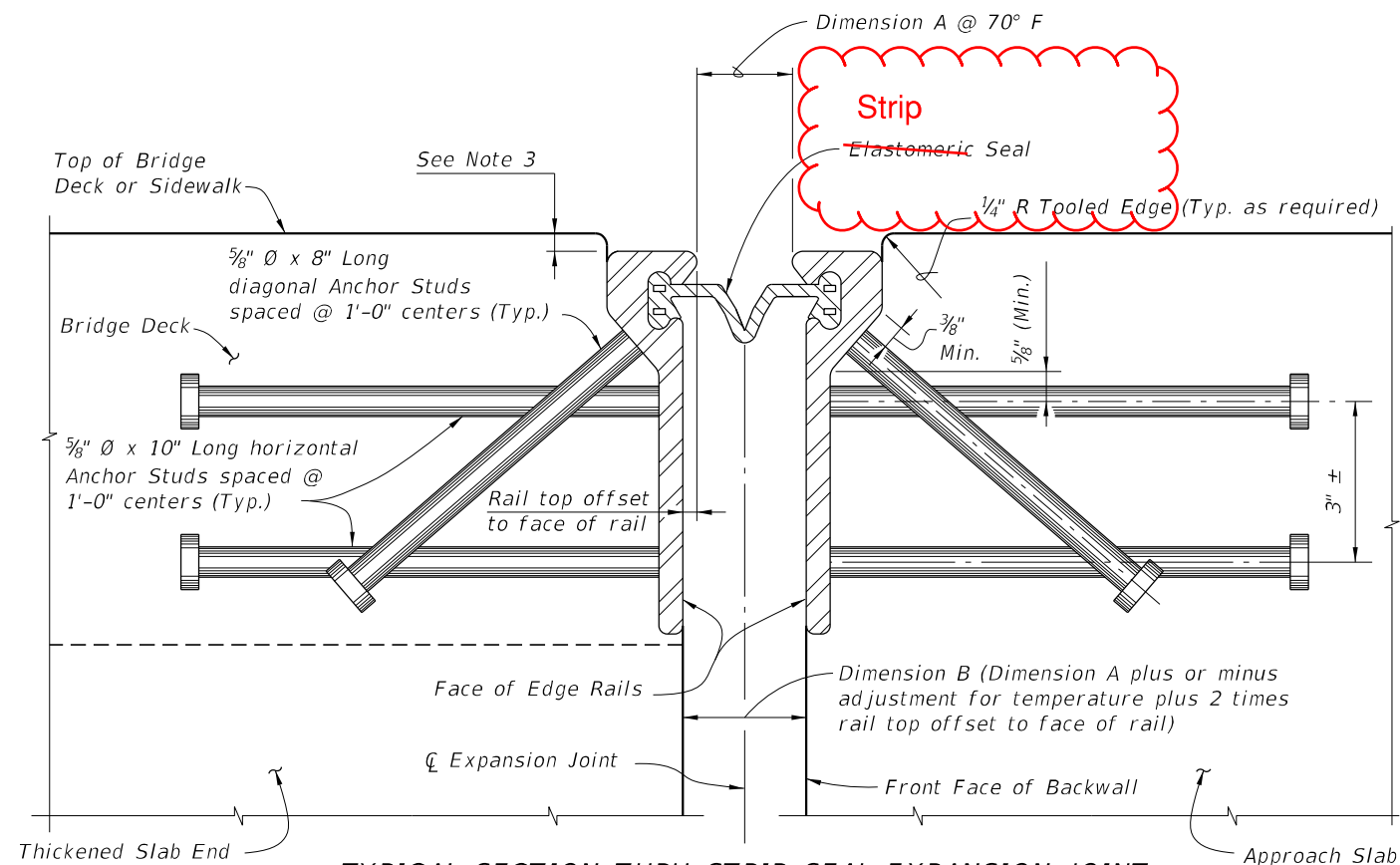
Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)

- | Yes | N/A | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Proposed Standard Plan Instructions (SPI) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Revised SPI |
| <input type="checkbox"/> | <input type="checkbox"/> | Other Support Documents |

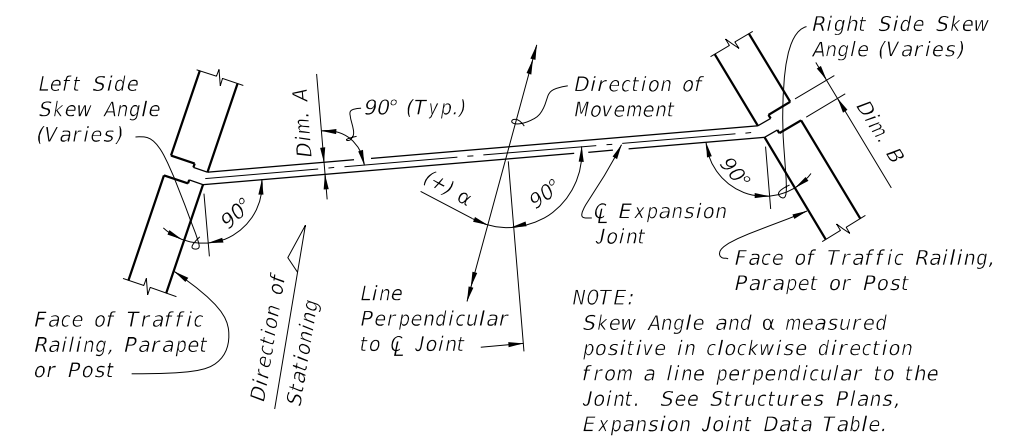
Implementation:

- Design Bulletin (Interim) DCE Memo Program Mgmt. Bulletin FY-Standard Plans (Next Release)

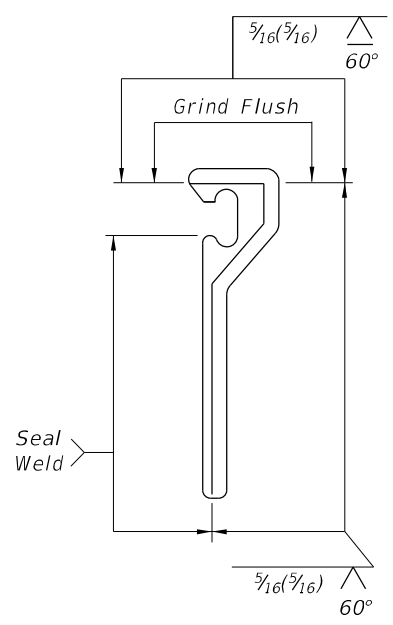
Contact the Roadway Design Office for assistance in completing this form



TYPICAL SECTION THRU STRIP SEAL EXPANSION JOINT
 (Begin or End Concrete Girder Bridge shown,
 Intermediate Supports and Steel Girder Bridge similar.
 Reinforcing Steel and Girder details not shown for clarity.)



MOVEMENT SCHEMATIC



SHOP SPLICE DETAIL

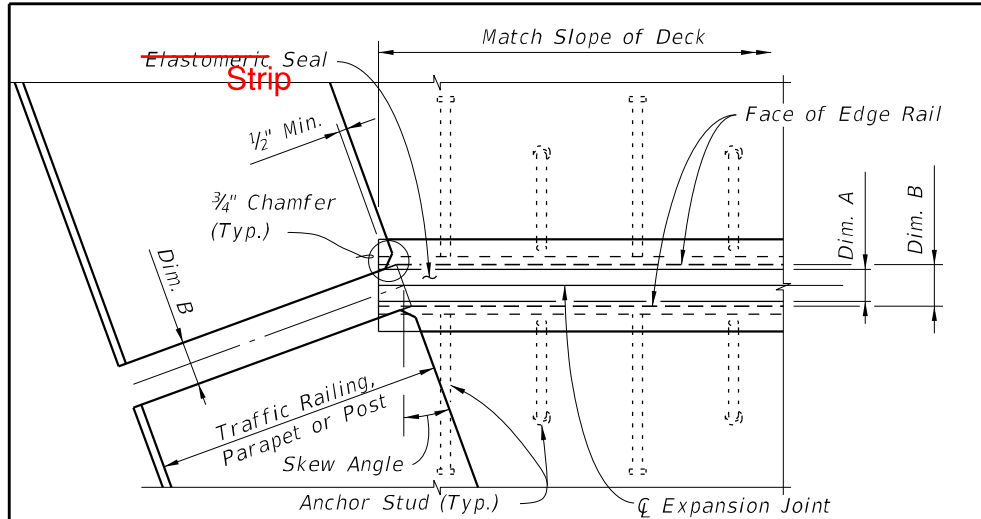
GENERAL NOTES:

1. Furnish Strip Seal Expansion Joint Systems in accordance with Specification Section 458.
2. Shape of Edge Rail shown is representative, minor variations depending on manufacturer are permitted.
3. Recess the Edge Rail below the concrete surface in accordance with Specification Section 458.
4. Refer to the Expansion Joint Data Table in the Structures Plans for joint movement and Dimension A.
5. Refer to Specification Section 458 for installation and fabrication requirements.

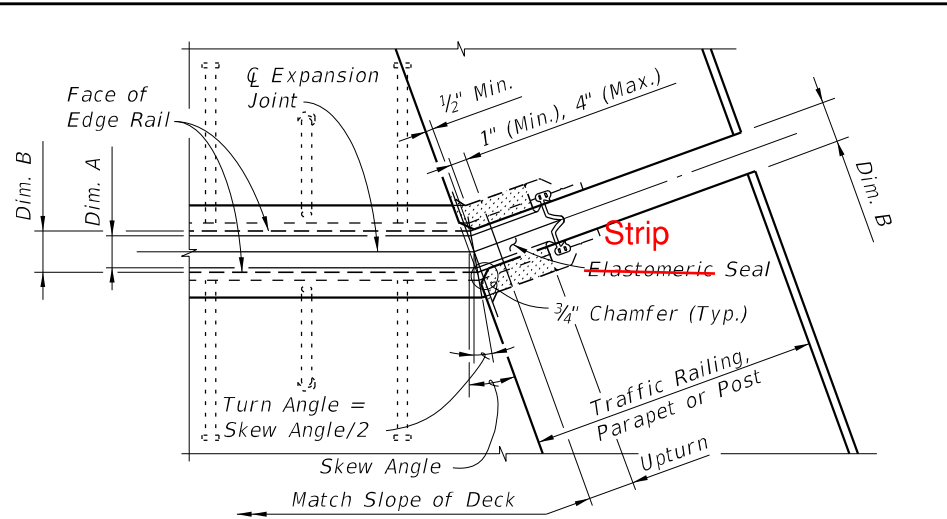
10/23/2018 12:48:36 PM

11/01/19

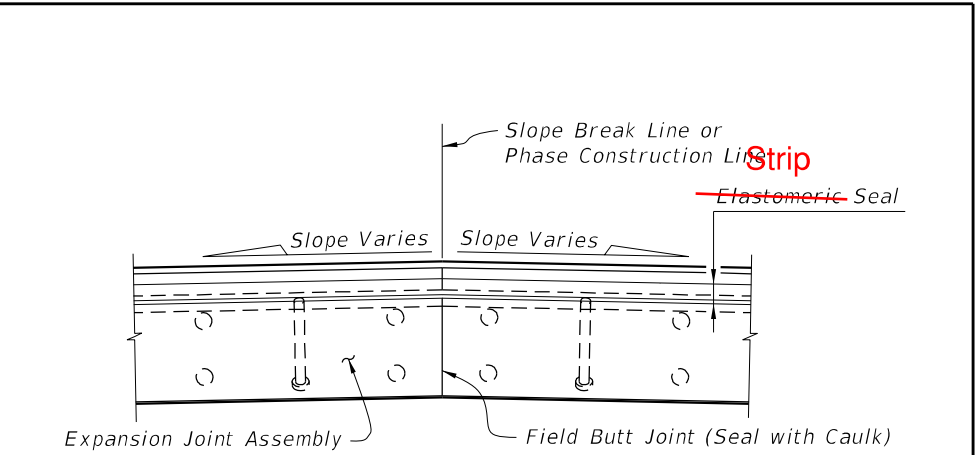
LAST REVISION	REVISION	DESCRIPTION:
07/01/13		



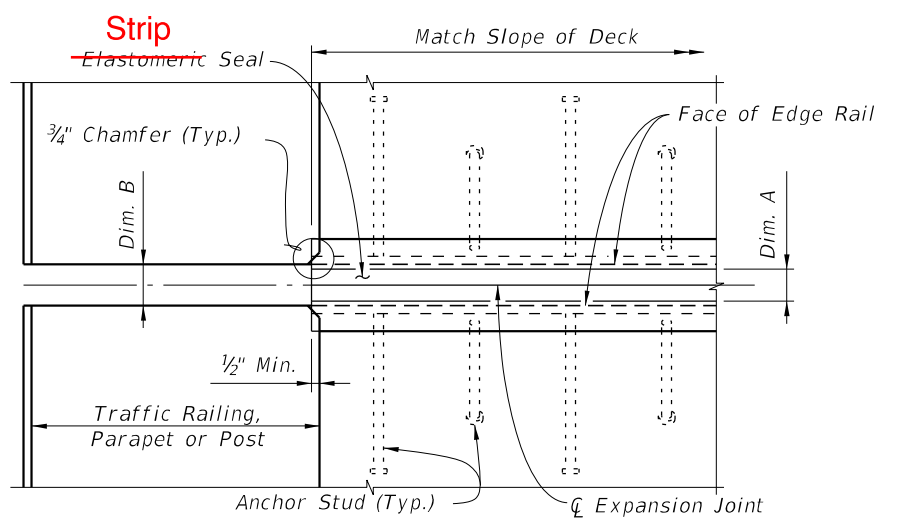
PARTIAL PLAN VIEW OF SKEWED JOINTS



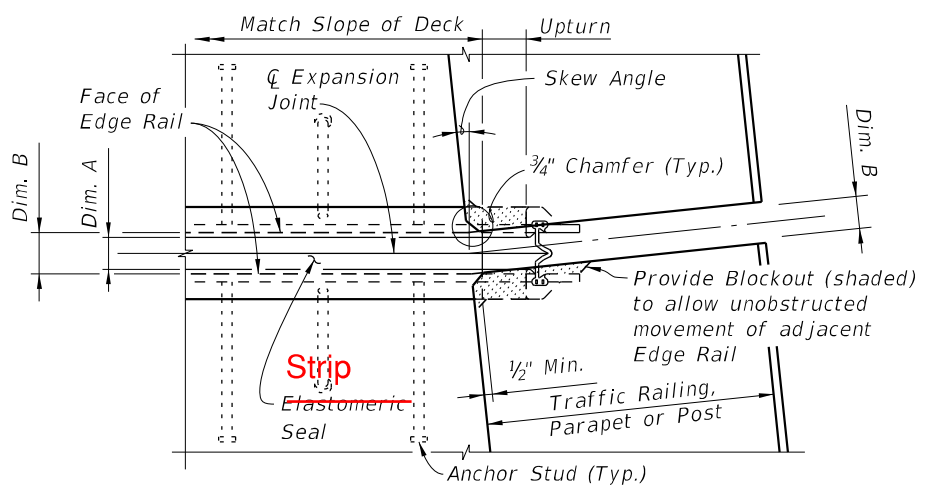
PARTIAL PLAN VIEW OF JOINTS SKEWED GREATER THAN 6°



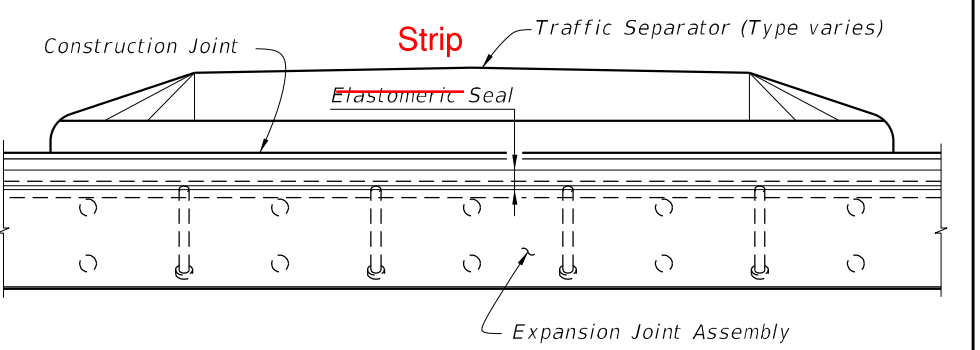
PARTIAL SECTION ALONG Q JOINT AT FIELD BUTT JOINT LOCATION (CROWNED DECK OR SLAB SHOWN)



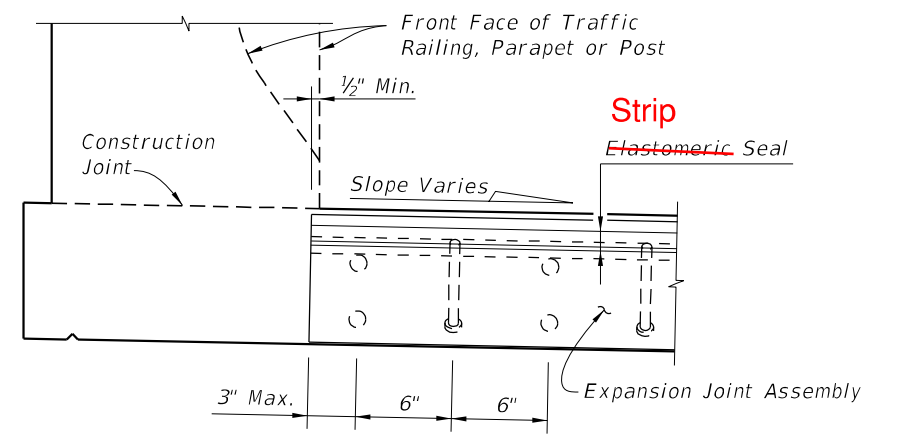
PARTIAL PLAN VIEW OF NONSKEWED JOINTS



PARTIAL PLAN VIEW OF NONSKEWED JOINTS & JOINTS SKEWED 6° OR LESS

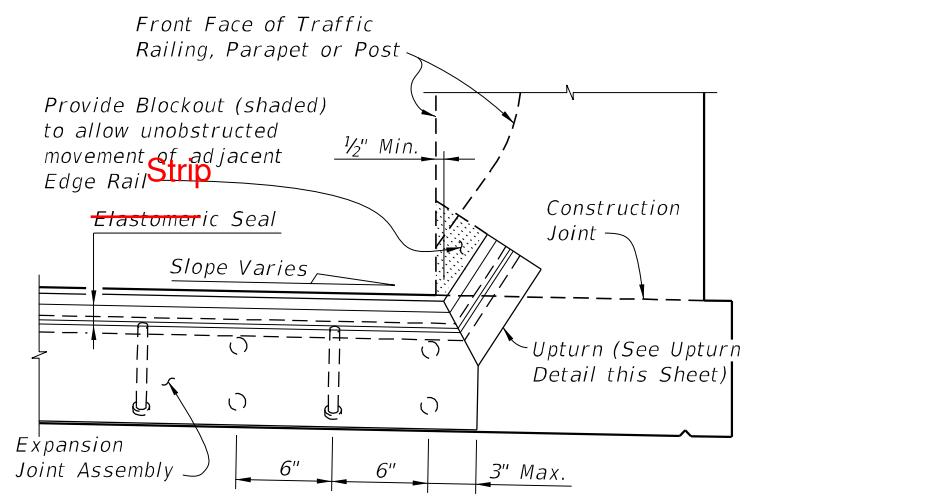


PARTIAL SECTION ALONG Q JOINT THRU TRAFFIC SEPARATOR



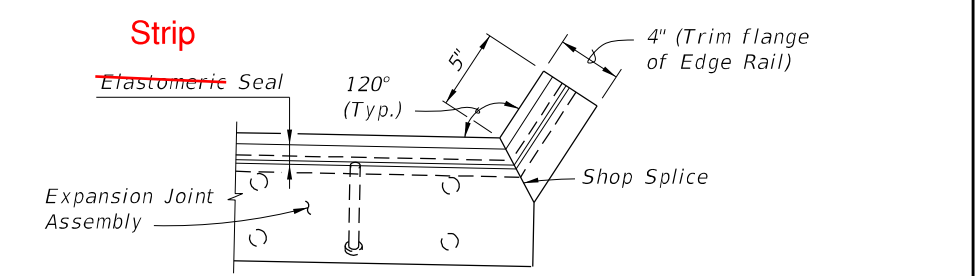
PARTIAL SECTION ALONG Q JOINT

JOINT TREATMENT AT HIGH SIDE OF DECK WITH SLOPE ≥ 1% (Sidewalk Cover Plate where applicable not shown for clarity)




PARTIAL SECTION ALONG Q JOINT

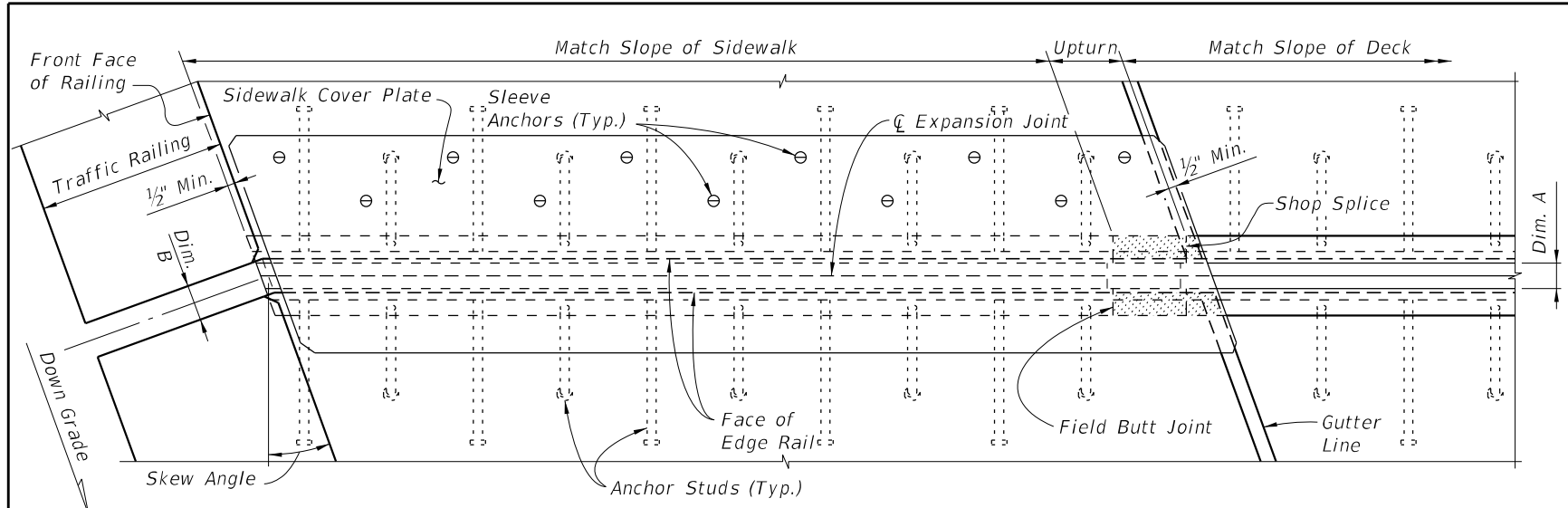
JOINT TREATMENT AT LOW SIDE OF DECK & HIGH SIDE OF DECK WITH SLOPE < 1% (Sidewalk Cover Plate where applicable not shown for clarity)



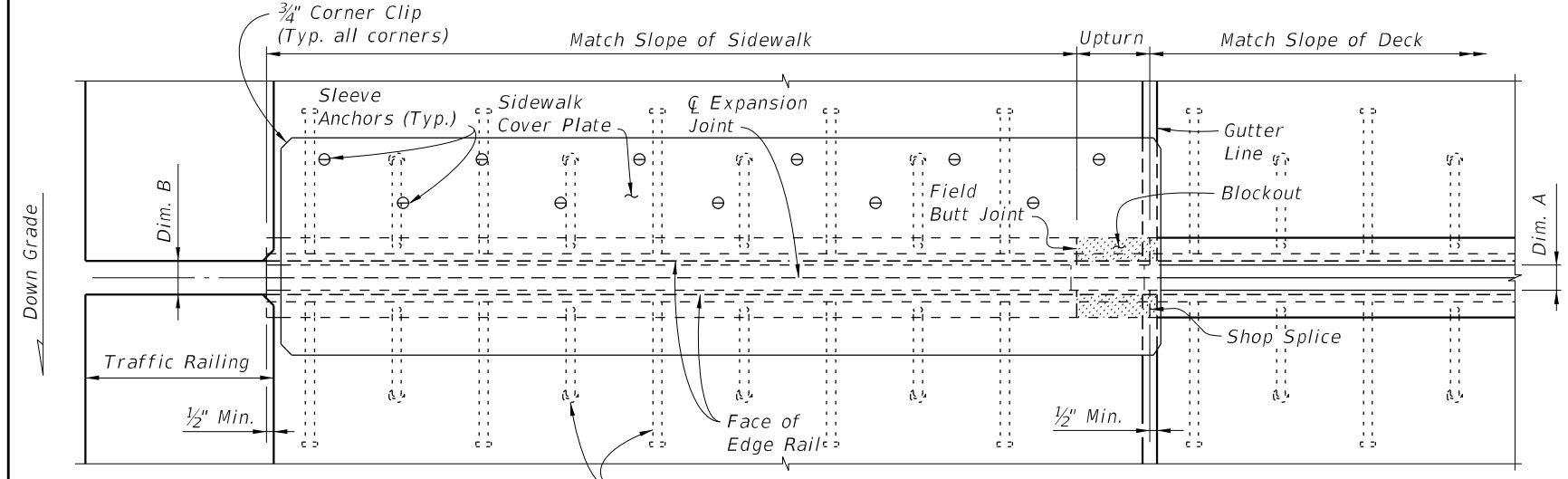
UPTURN DETAIL (TYPICAL AT TRAFFIC BARRIERS AND PARAPETS)

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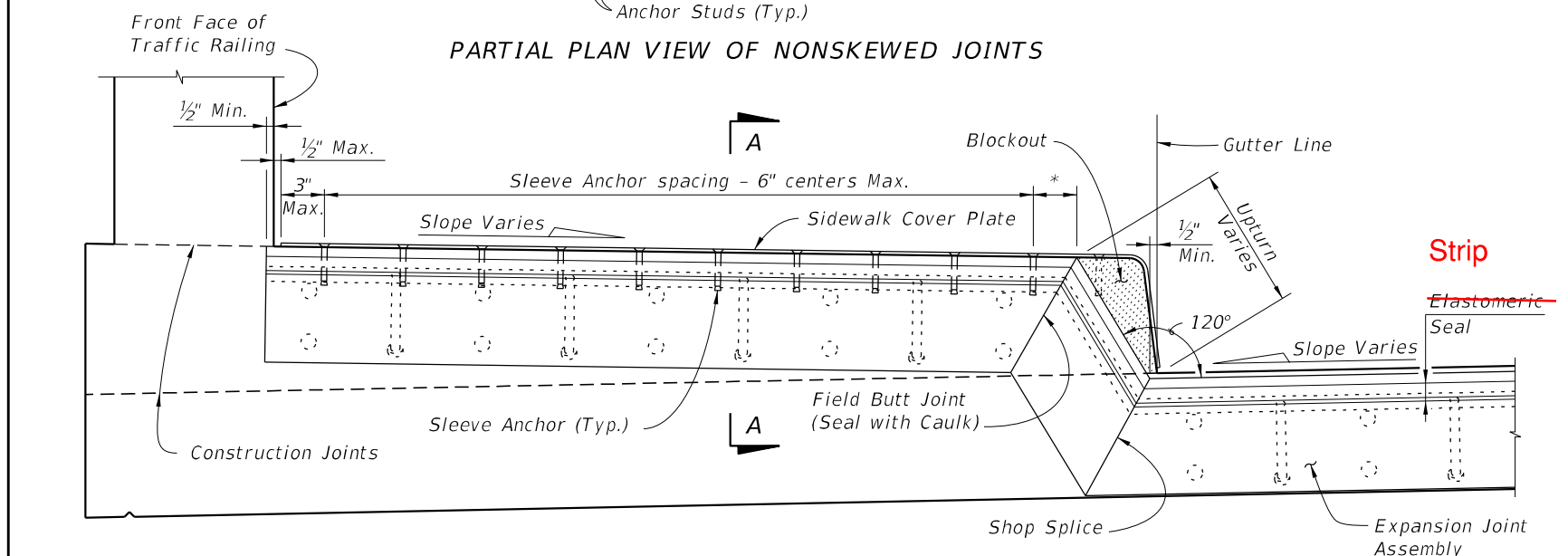
LAST REVISION	REVISION	DESCRIPTION:		FY 2019-20 STANDARD PLANS	EXPANSION JOINT SYSTEM - STRIP SEAL	INDEX	SHEET
07/01/14	11/01/19					458-100	2 of 3



PARTIAL PLAN VIEW OF SKEWED JOINTS



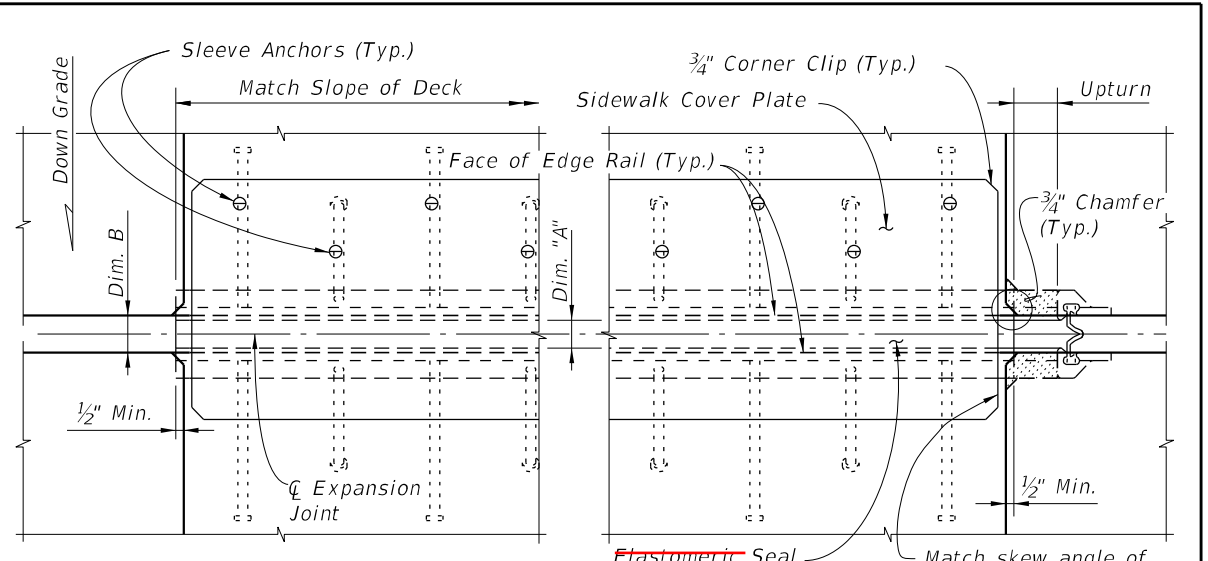
PARTIAL PLAN VIEW OF NONSKEWED JOINTS



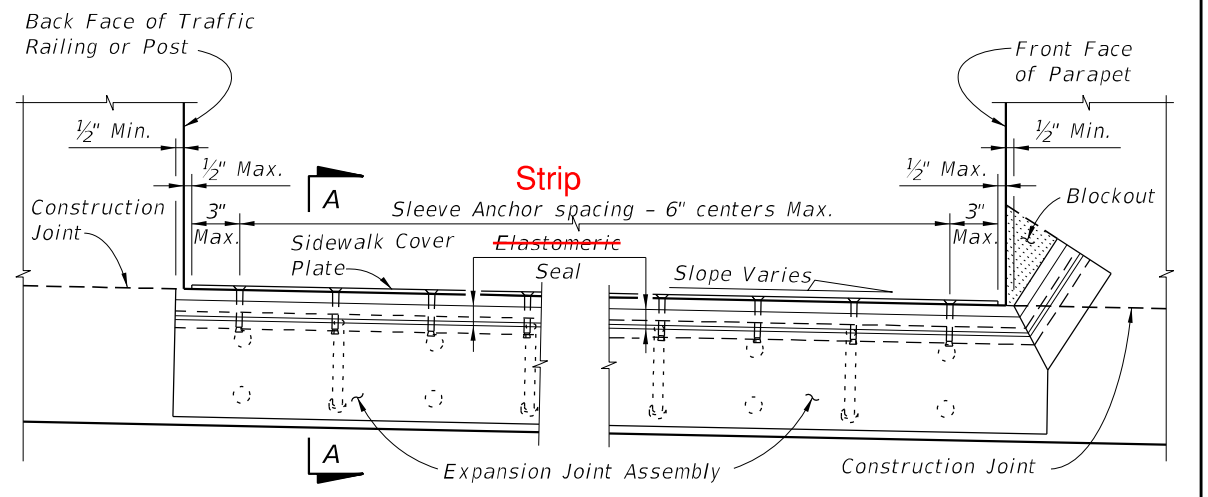
PARTIAL SECTION ALONG Q JOINT

RAISED SIDEWALK DETAIL

* Distance from Q Sleeve Anchor to edge of concrete is 2 inches minimum, 3 inches maximum.

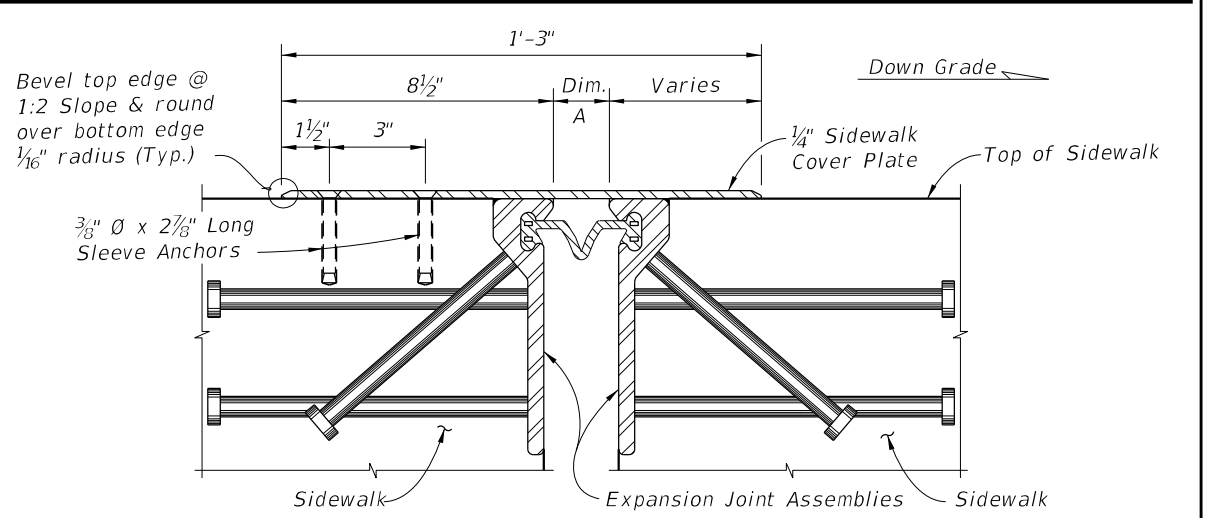


PARTIAL PLAN VIEW



PARTIAL SECTION ALONG Q JOINT

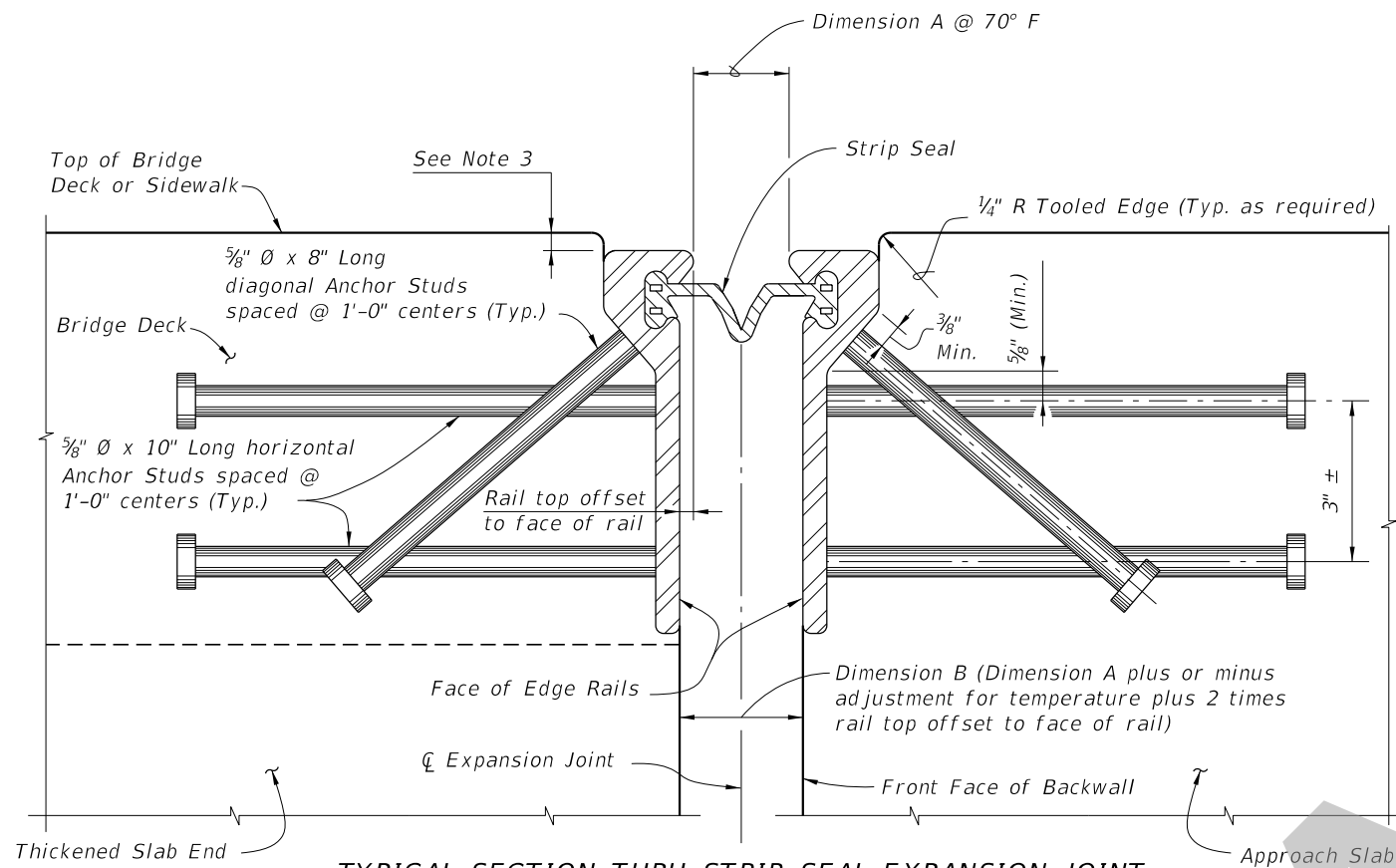
FLUSH SIDEWALK DETAIL



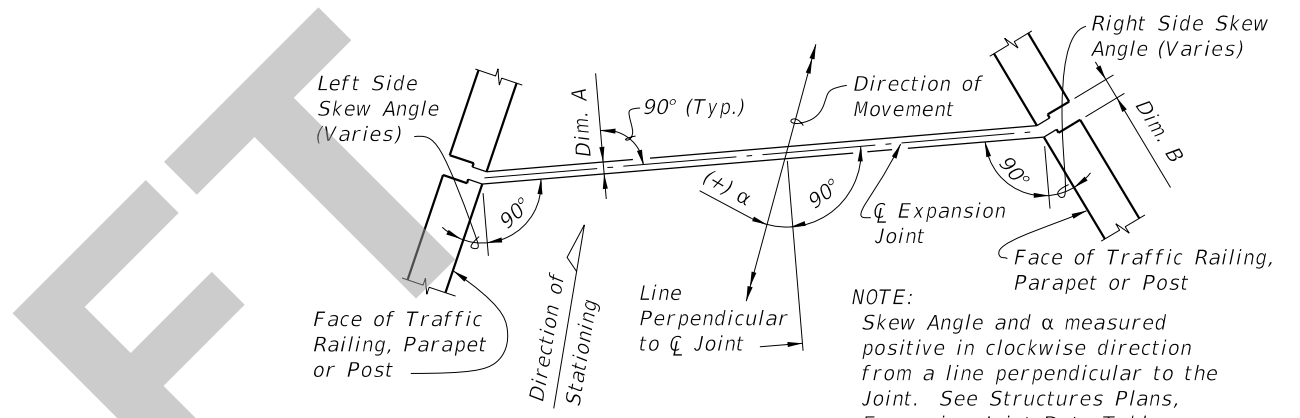
SECTION A-A

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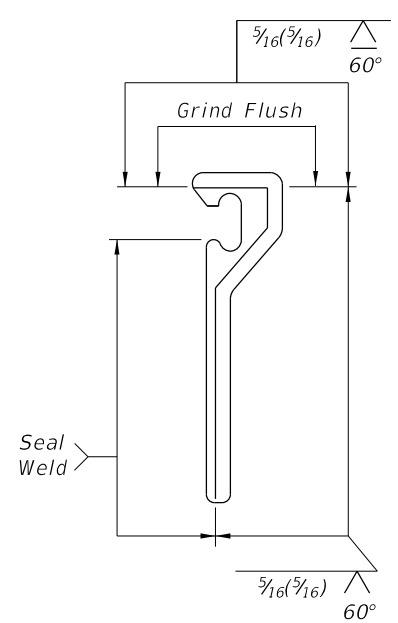
LAST REVISION	REVISION	DESCRIPTION:		FY 2019-20 STANDARD PLANS	EXPANSION JOINT SYSTEM - STRIP SEAL	INDEX 458-100	SHEET 3 of 3
07/01/13							



TYPICAL SECTION THRU STRIP SEAL EXPANSION JOINT
 (Begin or End Concrete Girder Bridge shown,
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MOVEMENT SCHEMATIC




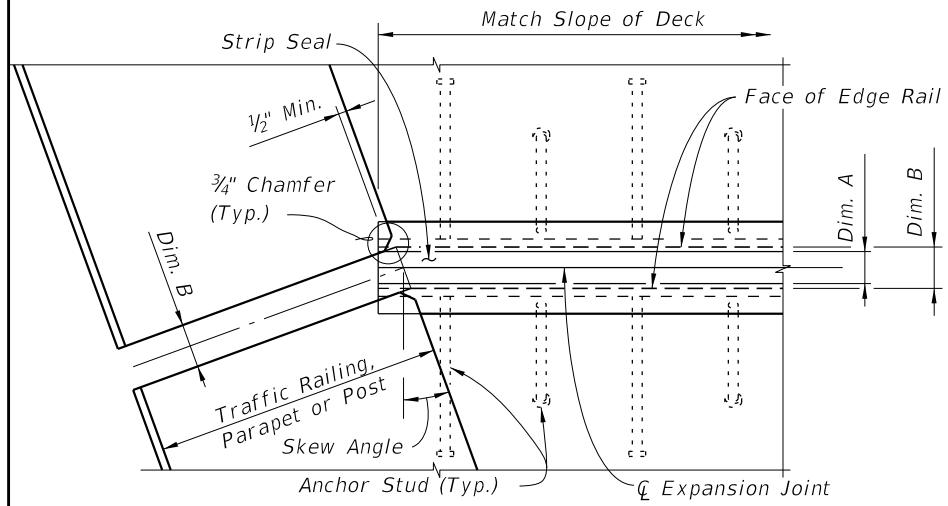
SHOP SPLICE DETAIL

GENERAL NOTES:

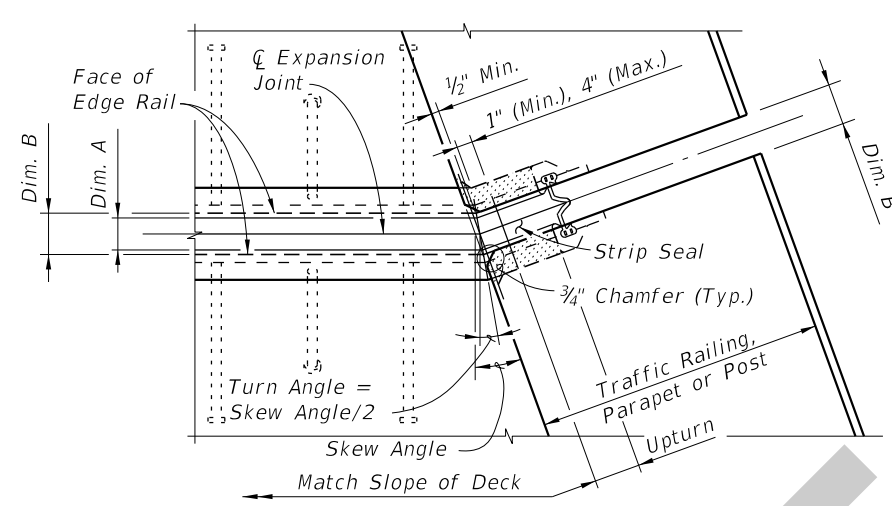
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SDATES

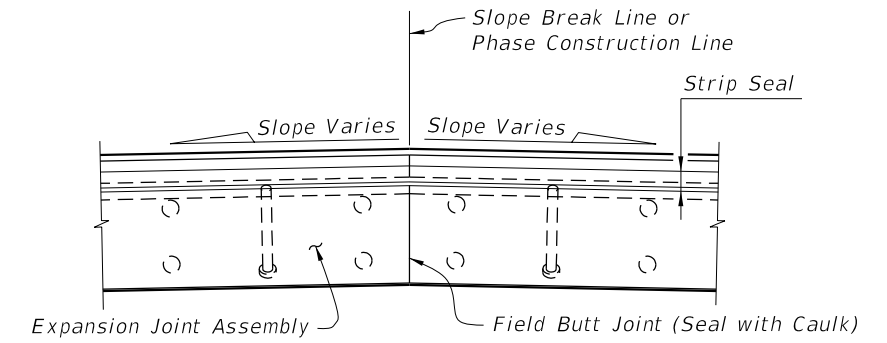
LAST REVISION 11/01/19	REVISION	DESCRIPTION:	 FY 2020-21 STANDARD PLANS	EXPANSION JOINT SYSTEM - STRIP SEAL	INDEX 458-100	SHEET 1 of 3
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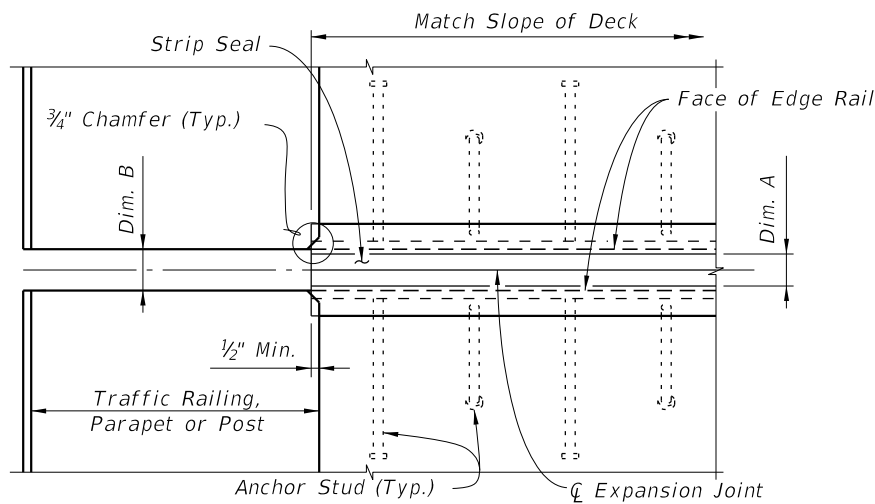
PARTIAL PLAN VIEW OF SKEWED JOINTS



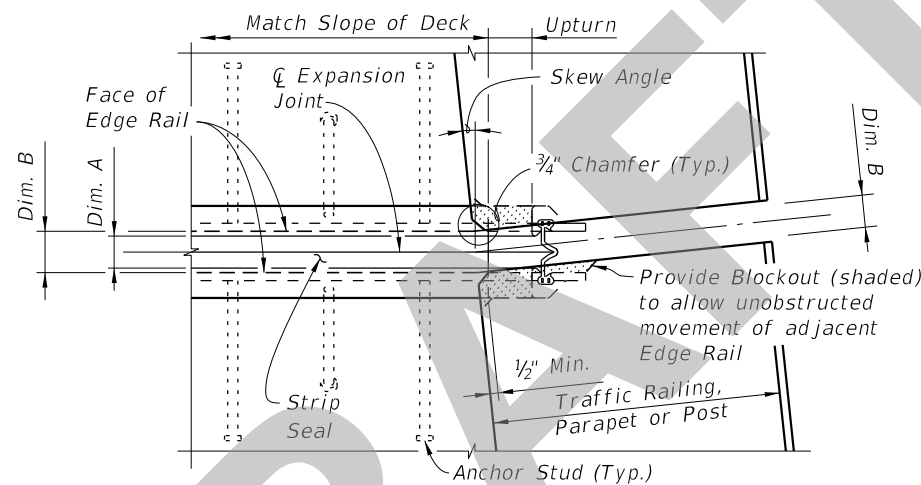
PARTIAL PLAN VIEW OF JOINTS SKEWED GREATER THAN 6°



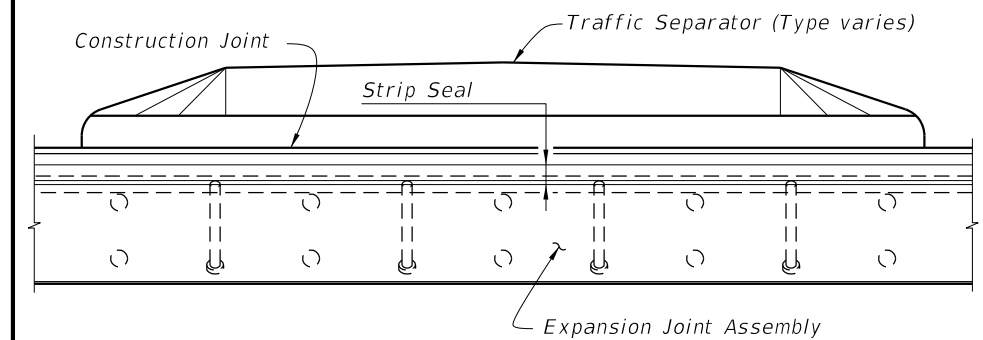
PARTIAL SECTION ALONG Q̄ JOINT AT FIELD BUTT JOINT LOCATION (CROWNED DECK OR SLAB SHOWN)



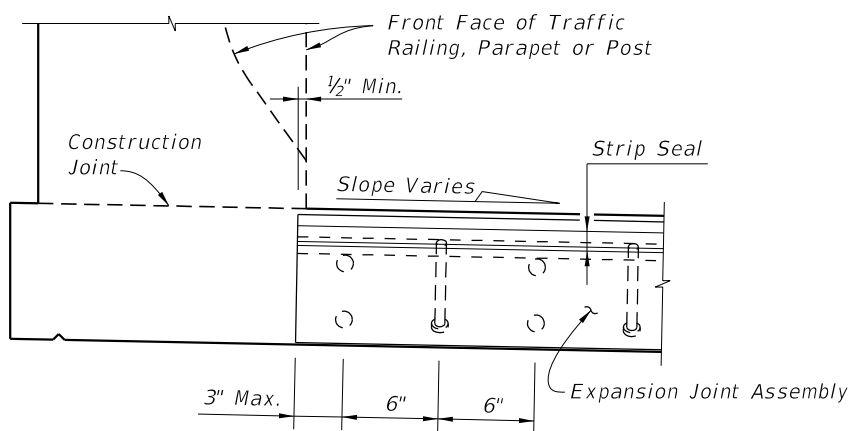
PARTIAL PLAN VIEW OF NONSKEWED JOINTS



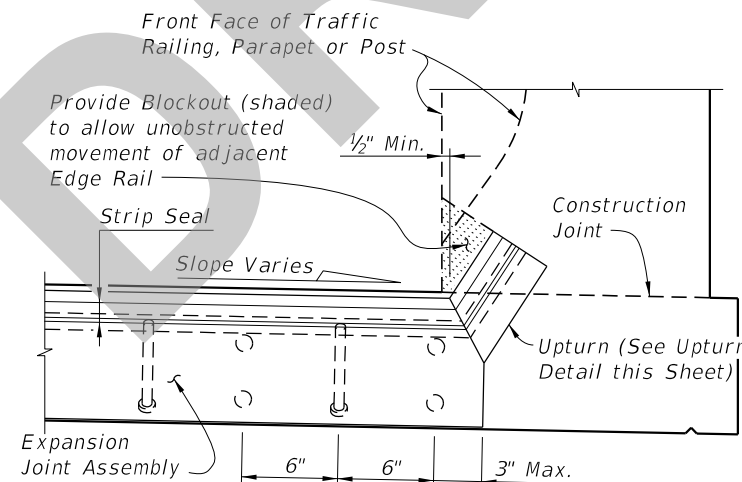
PARTIAL PLAN VIEW OF NONSKEWED JOINTS & JOINTS SKEWED 6° OR LESS



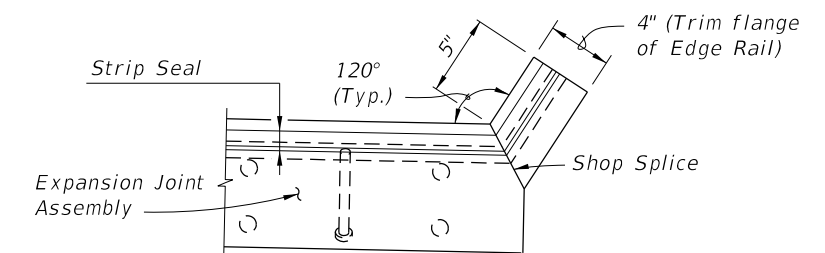
PARTIAL SECTION ALONG Q̄ JOINT THRU TRAFFIC SEPARATOR



PARTIAL SECTION ALONG Q̄ JOINT



PARTIAL SECTION ALONG Q̄ JOINT



UPTURN DETAIL (TYPICAL AT TRAFFIC BARRIERS AND PARAPETS)

JOINT TREATMENT AT HIGH SIDE OF DECK WITH SLOPE ≥ 1% (Sidewalk Cover Plate where applicable not shown for clarity)

JOINT TREATMENT AT LOW SIDE OF DECK & HIGH SIDE OF DECK WITH SLOPE < 1% (Sidewalk Cover Plate where applicable not shown for clarity)

SDATES STIMES

LAST REVISION 11/01/19	DESCRIPTION:
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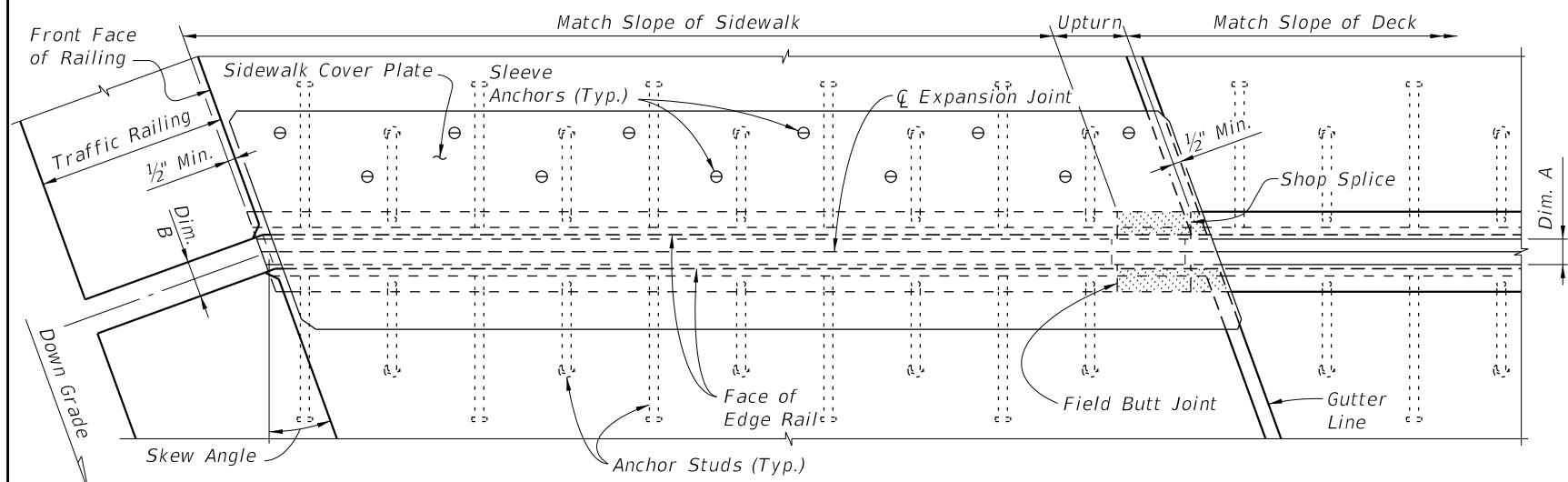


FY 2020-21
STANDARD PLANS

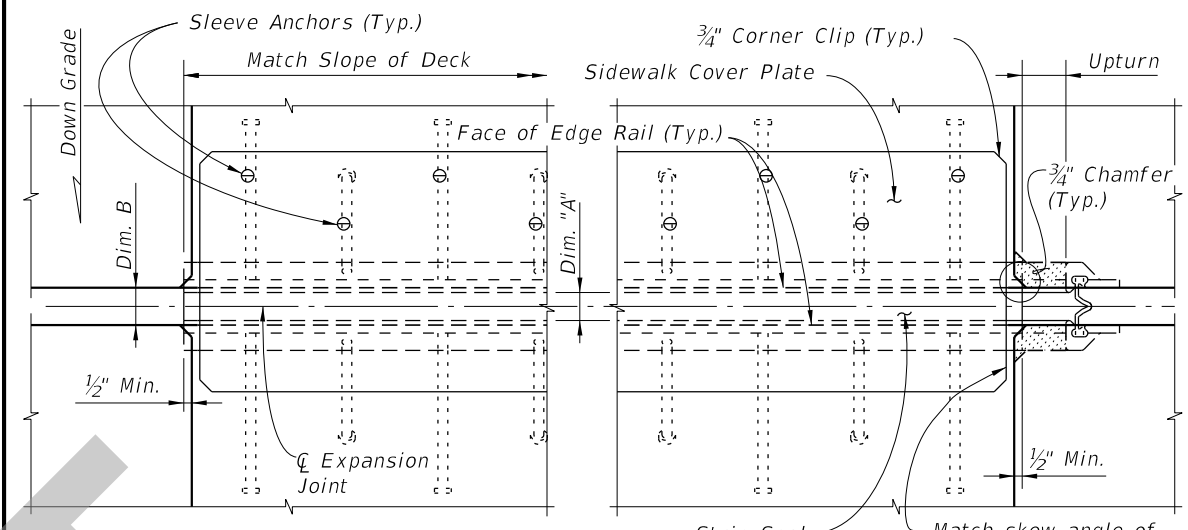
EXPANSION JOINT SYSTEM -
STRIP SEAL

INDEX
458-100

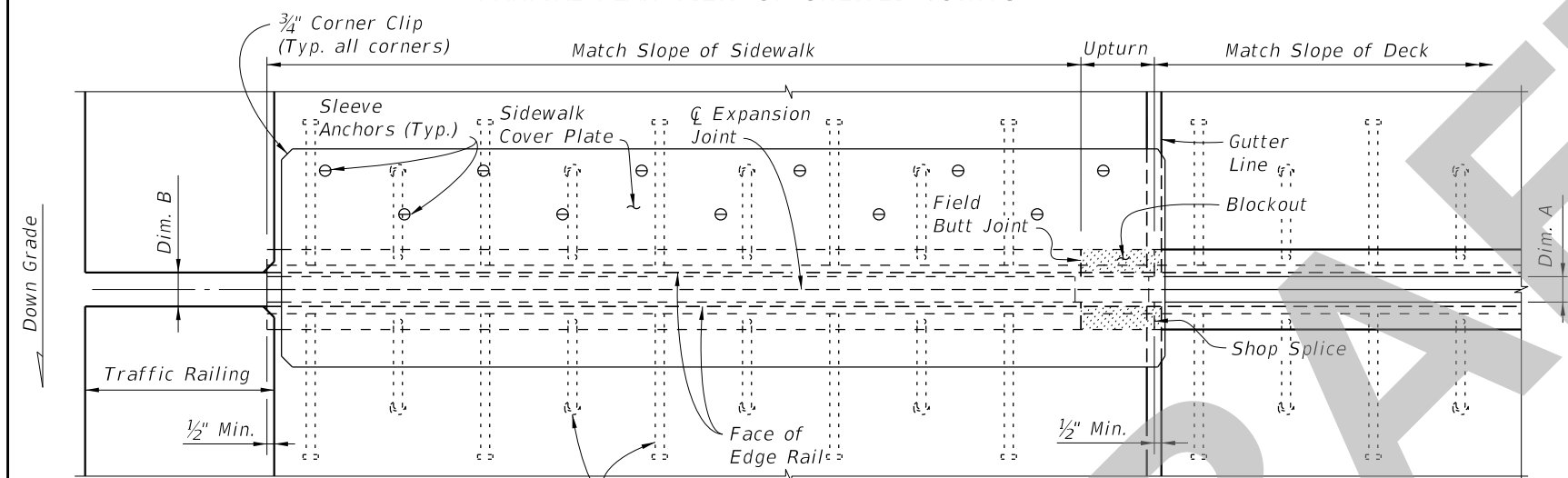
SHEET
2 of 3



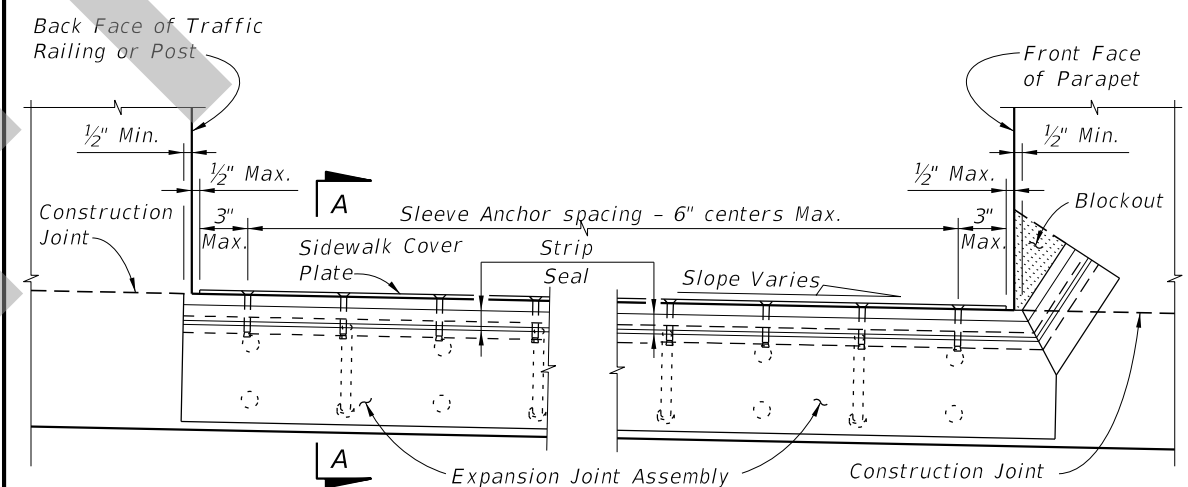
PARTIAL PLAN VIEW OF SKEWED JOINTS



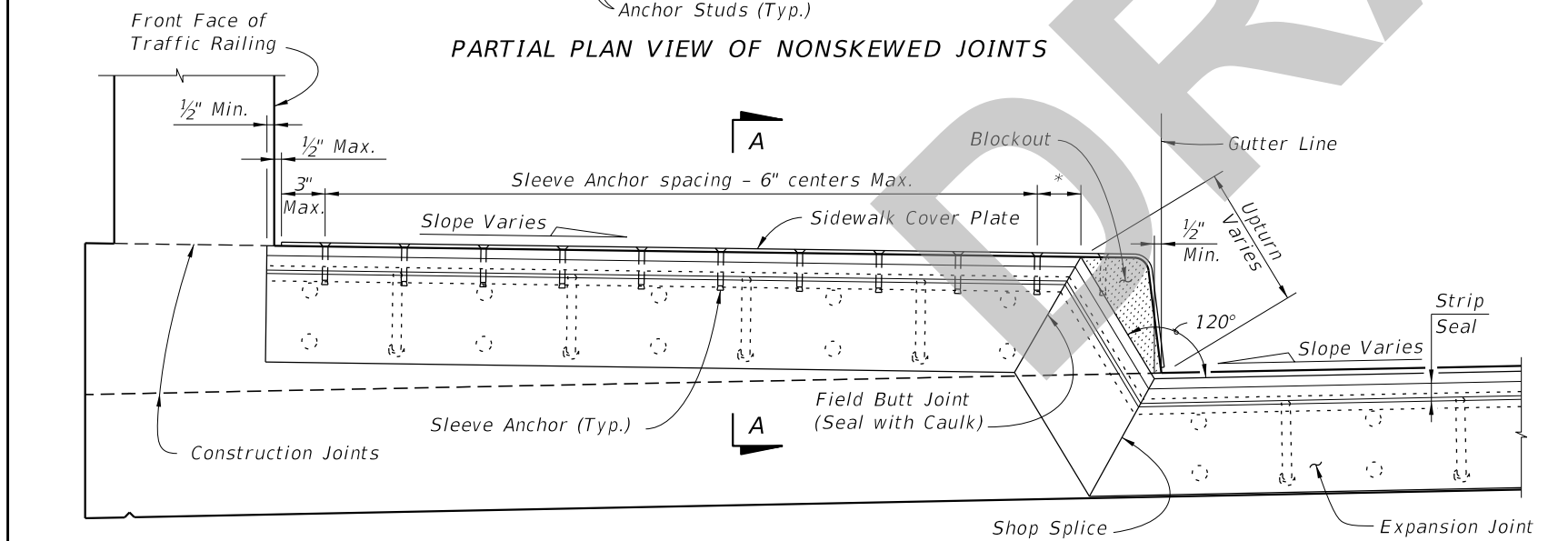
PARTIAL PLAN VIEW



PARTIAL PLAN VIEW OF NONSKEWED JOINTS

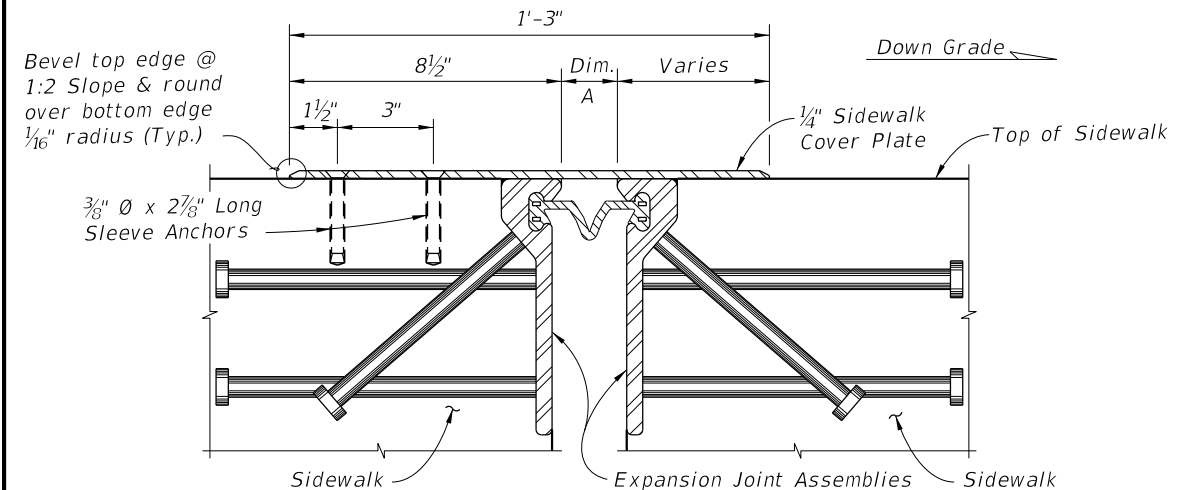


PARTIAL SECTION ALONG Q JOINT



PARTIAL SECTION ALONG Q JOINT

RAISED SIDEWALK DETAIL



SECTION A-A

* Distance from Q Sleeve Anchor to edge of concrete is 2 inches minimum, 3 inches maximum.

SDATES

LAST REVISION	DESCRIPTION:
11/01/19	