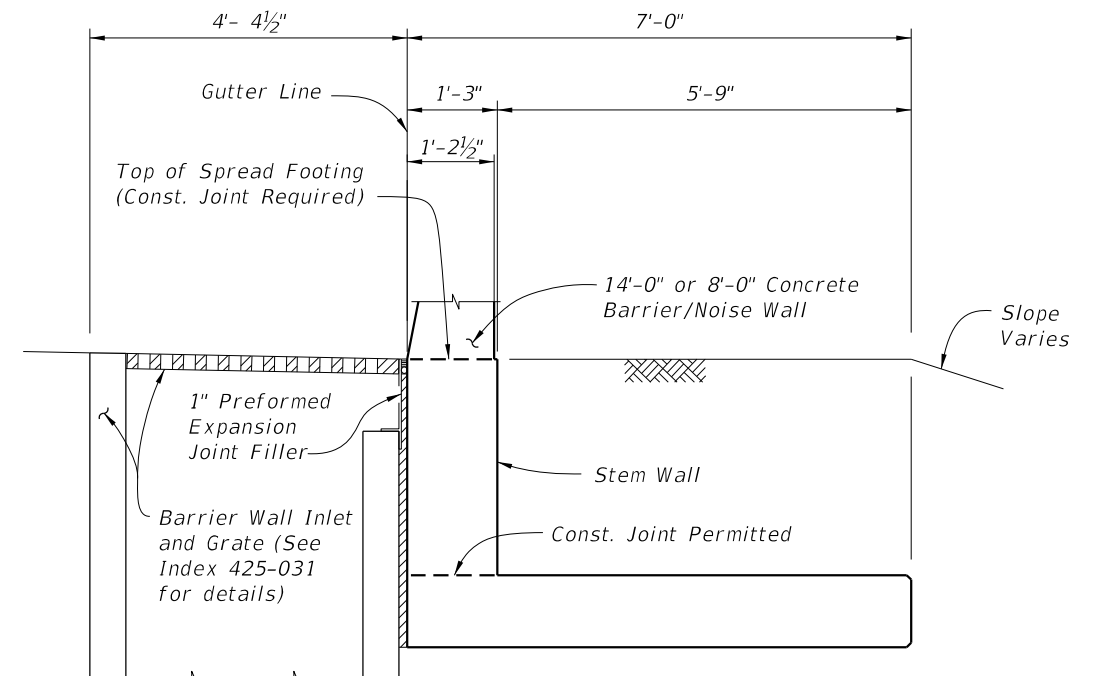
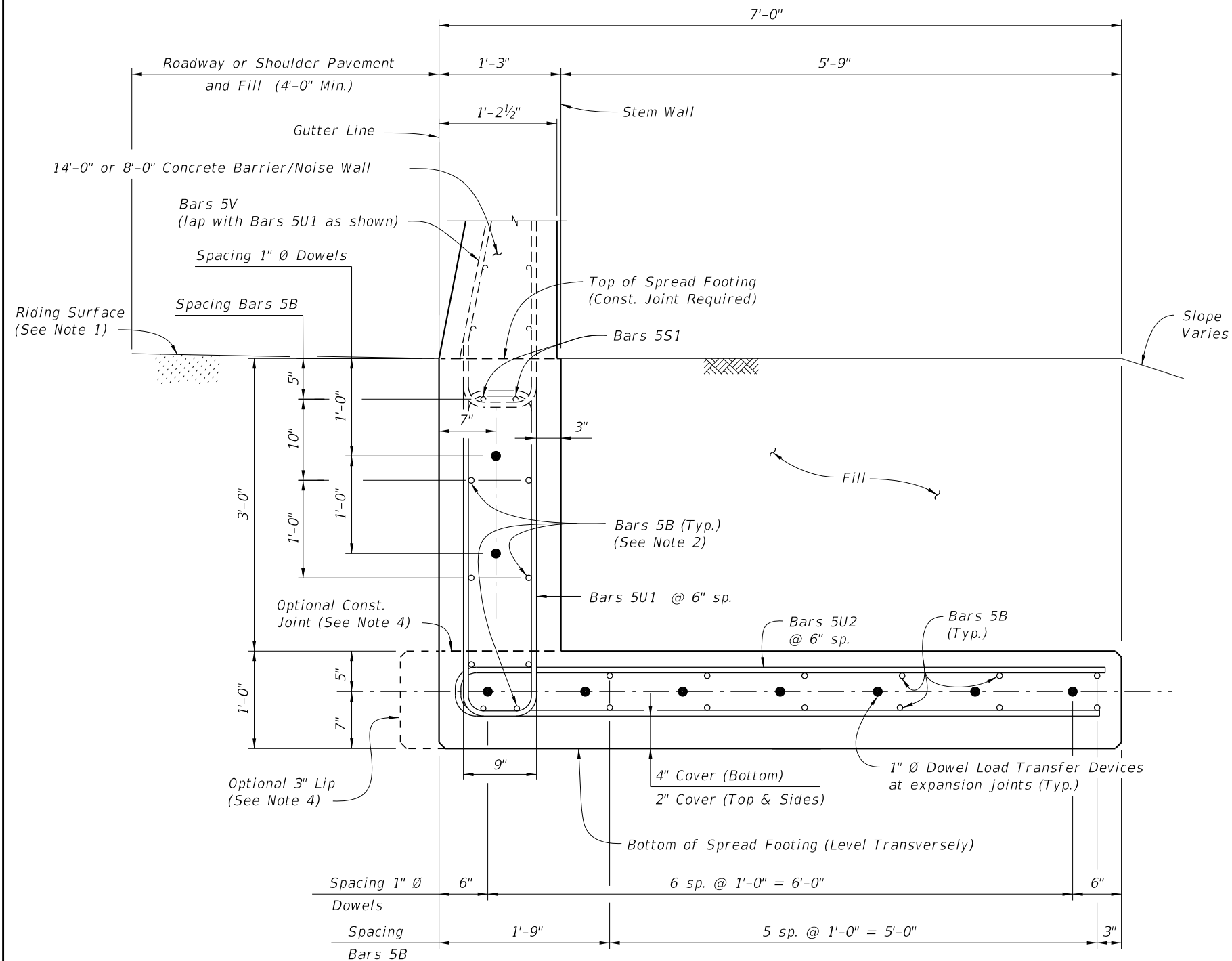


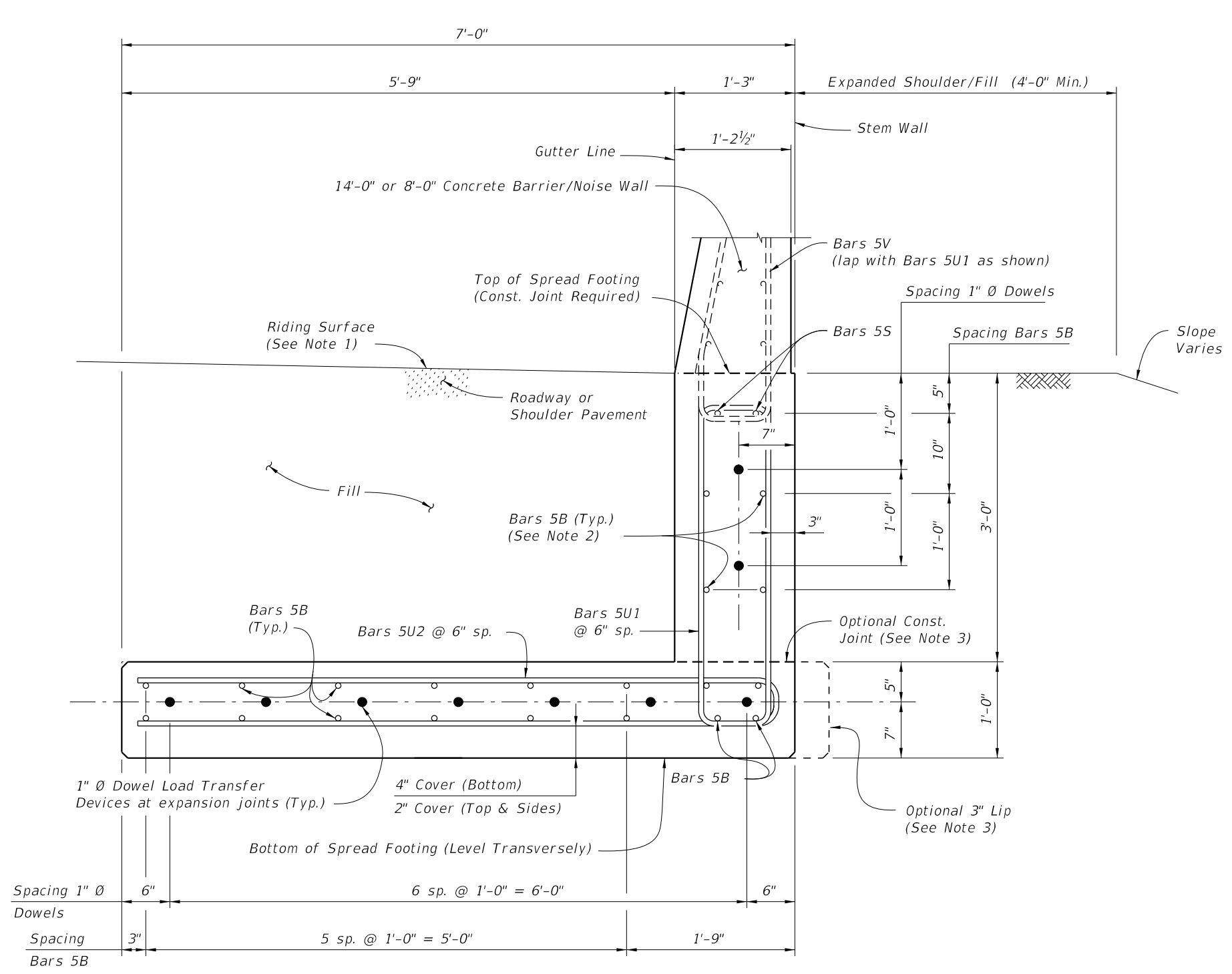


TYPICAL SECTION THRU SPREAD FOOTING - OPTION A
(Bars 5R and 5S1 in Concrete Barrier/Noise Wall not shown for clarity)

TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION A
(Reinforcing Steel not shown for clarity (See Note 3))

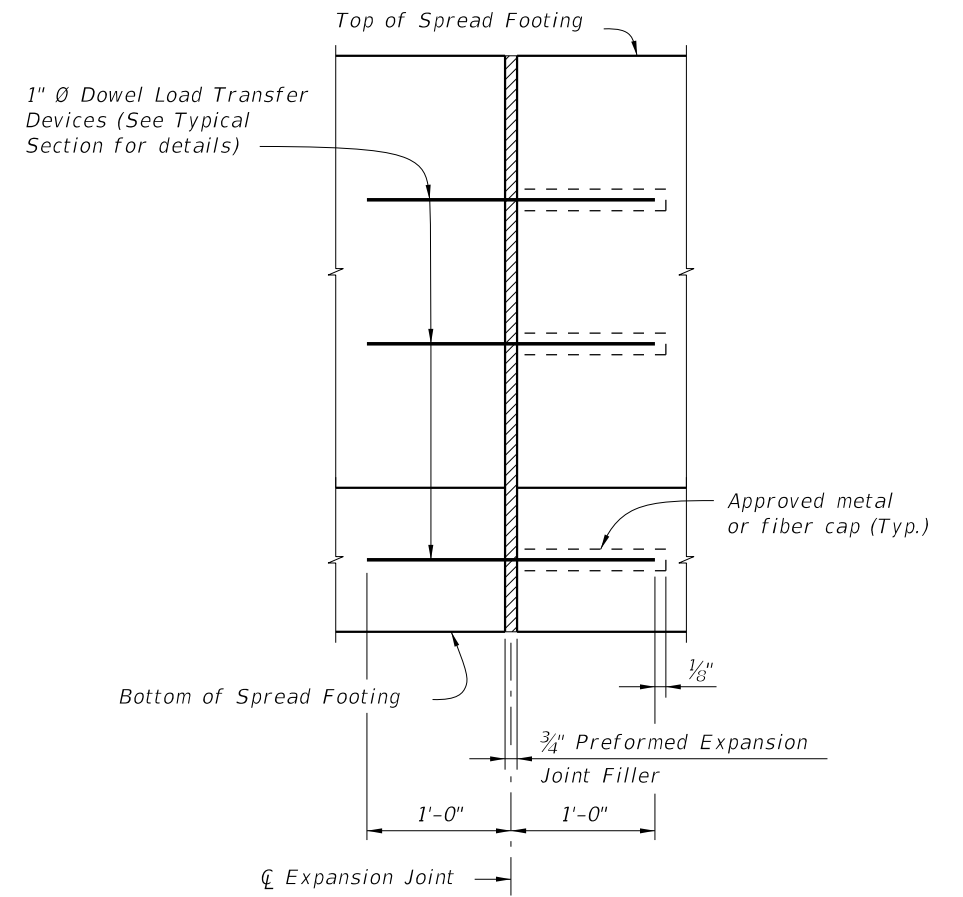
- NOTES:
1. Match Cross Slope of Travel Lane or Shoulder.
 2. Place 10 ~ Bars (8 ~ Bars 5B and 2 ~ Bars 5S1) inside Bars 5U1 as shown, (2 ~ 5S1 Bars are included in 521-510 or 521-511 quantities)
 3. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing ~ Option A this Sheet.
 4. Provide 3" lip when optional construction joint is used.

LAST REVISION 11/01/17	REVISION DESCRIPTION:	 FY 2027-28 STANDARD PLANS	CONCRETE BARRIER/NOISE WALL L-SHAPED SPREAD FOOTING	INDEX 521-514	SHEET 2 of 4
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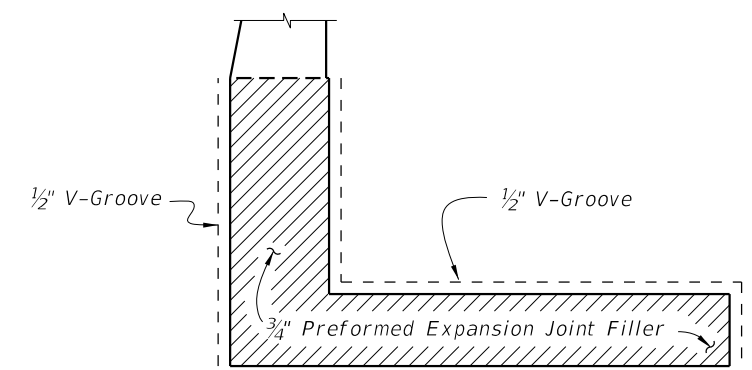


TYPICAL SECTION THRU SPREAD FOOTING - OPTION B
 (Bars 5P, 5R and 5S1 in Concrete Barrier/Noise Wall not shown for clarity)

- NOTES:
1. Match Cross Slope of Travel Lane or Shoulder.
 2. Place 10 ~ Bars (8 ~ Bars 5B and 2 ~ Bars 5S1) inside Bars 5U1 as shown.
 3. Provide 3" lip when optional construction joint is used.



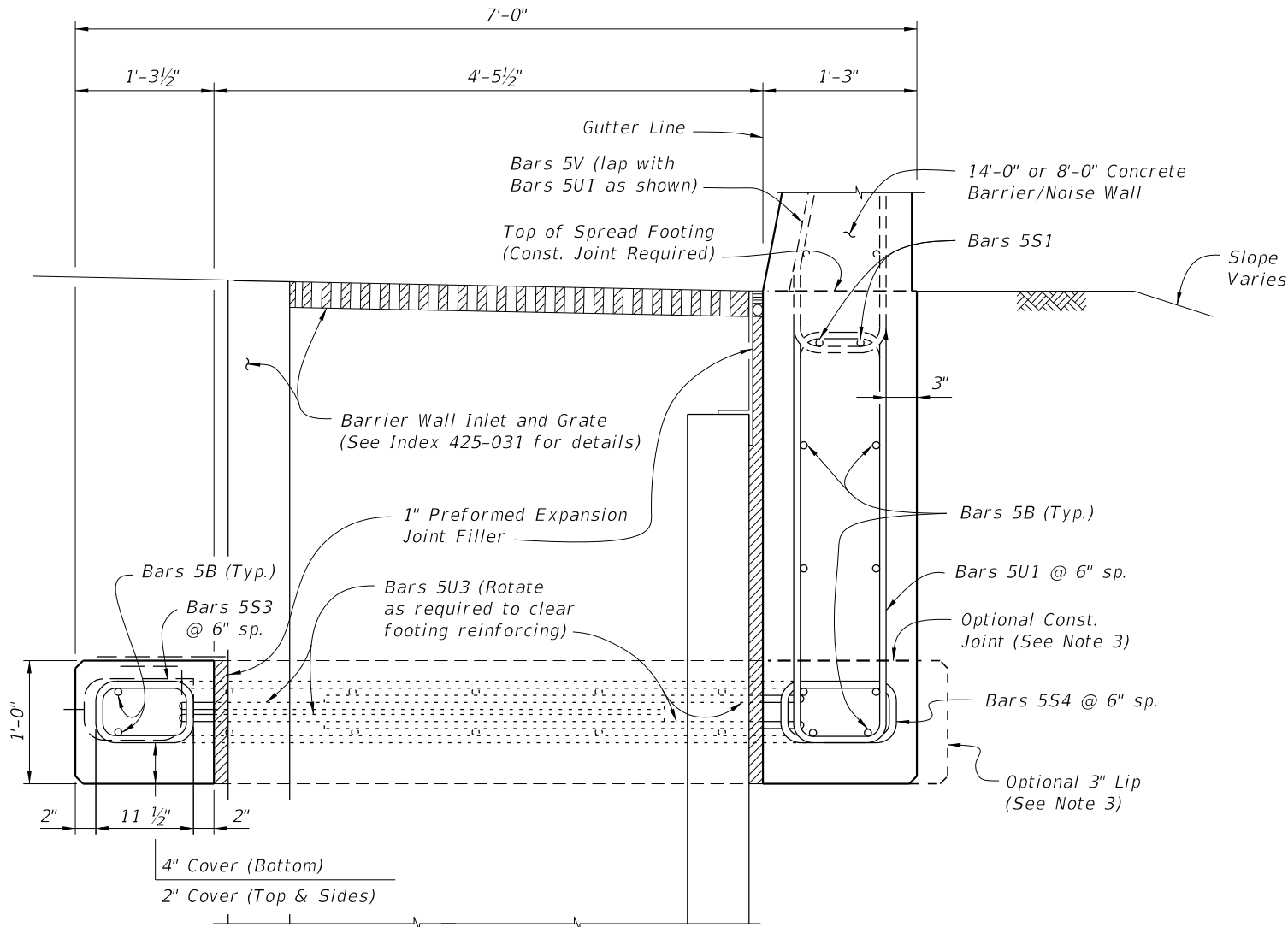
EXPANSION JOINT DETAIL
 (Spread Footing expansion joints are required at 3/4" open joints in Concrete Barrier/Noise Wall)



DETAIL "A"
 (Option A Shown, Option B Similar)
 (Showing Locations of 1/2" V-Grooves and 3/4" Preformed Expansion Joint Filler)

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LAST REVISION 11/01/17	DESCRIPTION:	 FY 2027-28 STANDARD PLANS	CONCRETE BARRIER/NOISE WALL L-SHAPED SPREAD FOOTING	INDEX 521-514	SHEET 3 of 4
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SECTION A-A
TYPICAL SECTION THRU SPREAD FOOTING AND BARRIER WALL INLET - OPTION B
(Bars 5P, 5R and 5S1 in Concrete Barrier/Noise Wall not shown for clarity)

- NOTES:
- 1. Place 8 ~ Bars 5B and 2 Bars 5S1 inside Bars 5U1 as shown.
 - 2. For Reinforcing Steel spacing, see Typical Section Thru Spread Footing - Option B on Sheet 3.
 - 3. Provide 3" lip when optional construction joint is used.

ESTIMATED L-SHAPED SPREAD FOOTING QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete (Footing)	CY/FT	0.398
Reinforcing Steel (Typical) *	LB/FT	68.84
Additional Reinf. @ Expansion Joint	LB	48.06

* Bars 5V and 5S1 are included in Index 521-510 or 521-511 quantities.

CROSS REFERENCE:
For location of Section A-A, see Sheet 1.

REINFORCING STEEL BENDING DIAGRAMSBILL OF REINFORCING STEEL

MARK	SIZE	LENGTH
B	5	AS REQD.
F	5	5'-6"
S3	5	3'-7"
S4	5	3'-10"
U1	5	9'-2"
U2	5	13'-10"
U3	5	12'-10"
DOWEL	1" Ø Smooth Bar	2'-0"

5B

Length as Required

5F

5'-6"

BARS 5B & 5F

2'-0"

1" Ø DOWEL

3'-7"

5'-8"

BAR 5U3

9"

6"

3'-4"

BAR 5U1

6"

6"

6"

BAR 5S3

11 1/2"

6"

6"

BAR 5U2

11"

6"

6"

BAR 5S4

REINFORCING STEEL NOTES:

1. All bar dimensions in the bending diagrams are out to out.

2. All reinforcing steel at the open joints will have a 2" minimum cover.

3. Lap splices for Bars 5B will be a minimum of 2'-2".

4. Lap splices Bars 5T and 5V with 5U1 will be a minimum of 2'-2".

5. The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.

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