

PLAN - OPTION B SPREAD FOOTING ADJACENT TO SKEWED APPROACH SLAB AND WITH BARRIER WALL INLET (Option A Similar) (Bars S1 Not Shown)

NOTES

- 1. CONSTRUCTION REQUIREMENTS: Construct the Spread Footing level transversely and expansion joints plumb; do not construct the spread footing perpendicular to the roadway surface.
- 2. CONCRETE: Use Class II concrete for slightly aggressive environments. Use Class IV concrete for moderately or extremely aggressive environments. Concrete will be in accordance with Specification Section 346.
- 3. DOWELS: Dowel Load Transfer Devices will be ASTM A 36 smooth round bar and hot-dip galvanized in accordance with Specification Section 962, Install Dowel Load Transfer Devices in accordance with Specification Section 350.
- 4. Construct ¾" Expansion Joints plumb and perpendicular or radial to Gutter Line. Provide at 90'-0" maximum intervals as shown.
- 5. Provide and install Preformed Expansion Joint Filler in accordance with Specification Section 932.
- 6. Construct 1/2" V-Grooves plumb and provide at 30'-0" maximum intervals as shown. Space V-Grooves equally between $\frac{3}{4}$ " Expansion Joints and/or Begin or End Spread Footing. V-Groove locations are to coincide with V-Groove locations in the Concrete Barrier/Noise Wall.
- 7. FILL REQUIREMENTS: Shoulder or Roadway Pavement and Fill is required on the traffic side of the spread footing for a distance of 4'-0" and the full length of the spread footing (3'-0" minimum depth) on the backside of the spread footing for Option A. Fill is required for a distance of 4'-0" on the backside of the spread footing and the full length of the spread footing (3'-0" minimum depth) on the traffic side of the spread footing for Option B. See Typical Sections on Sheets 2 and 3 for details.
- 8. Spacing shown is along the Gutter Line.
- 9. Work this Index with one or both of the following:
 - a. Index 521-510 Concrete Barrier/Noise Wall (8'-0").
- b. Index 521-511 Concrete Barrier/Noise Wall (14'-0").

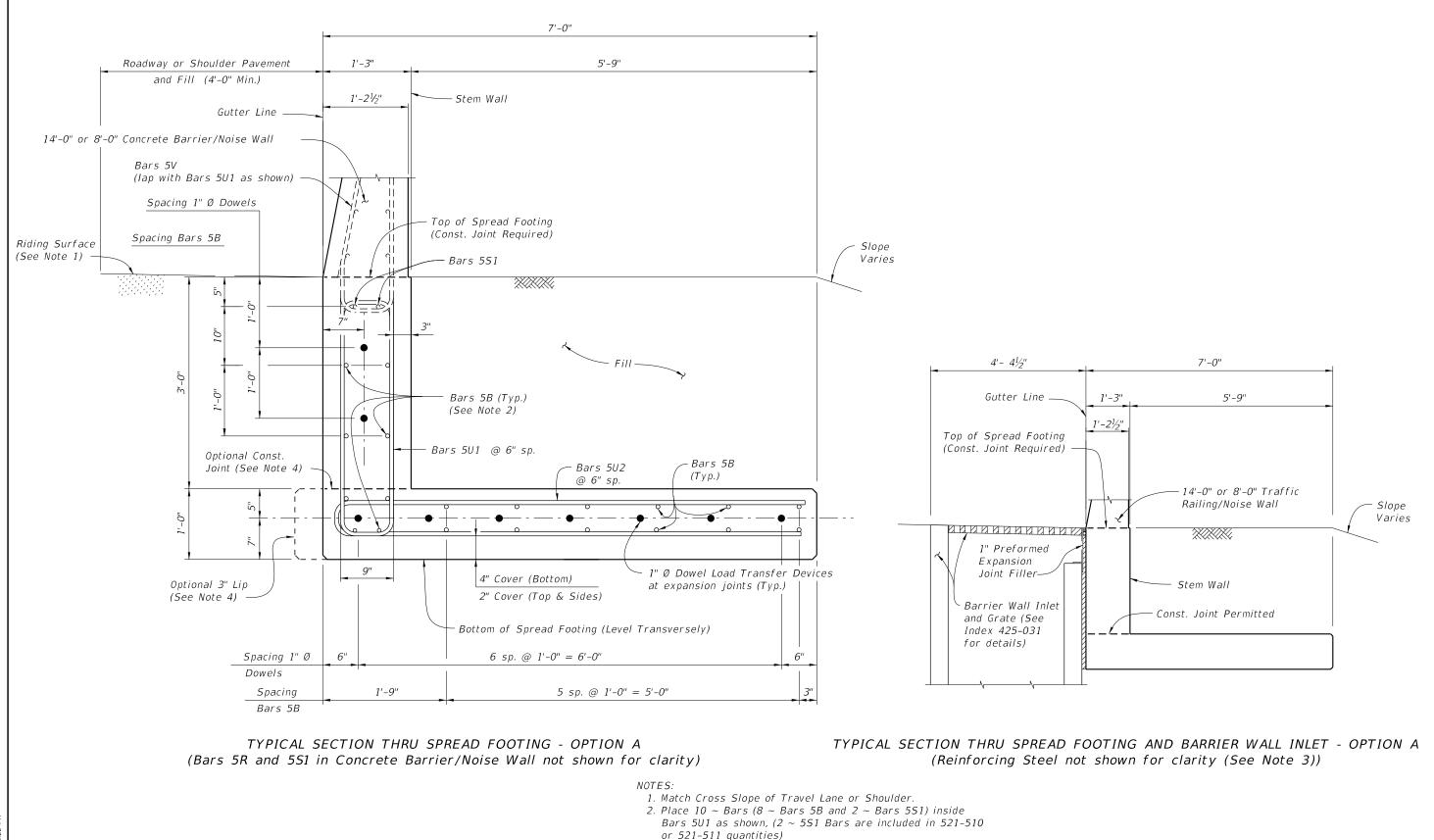
CROSS REFERENCE:

For Detail "A", see Sheet 3. For Section A-A and Estimated Quantities, see Sheet 4.

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DESCRIPTION:

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3. For Reinforcing Steel spacing, see Typical Section Thru

4. Provide 3" lip when optional construction joint is used.

Spread Footing - Option A this Sheet.

DESCRIPTION: **REVISION**

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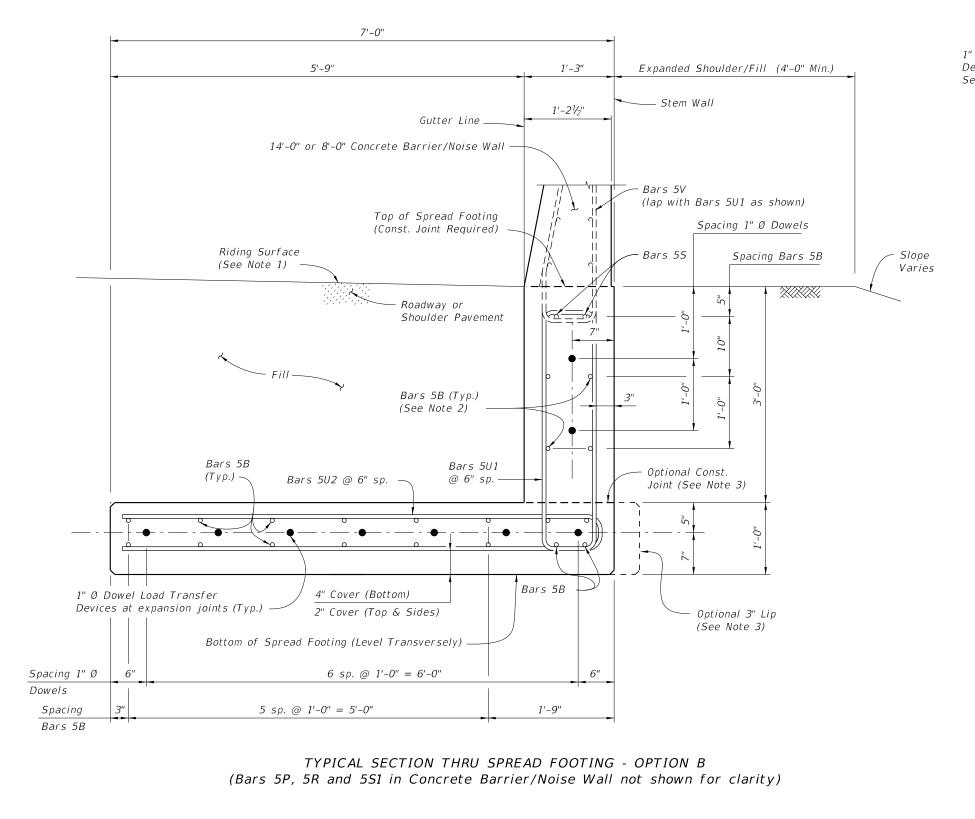
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L-SHAPED SPREAD FOOTING

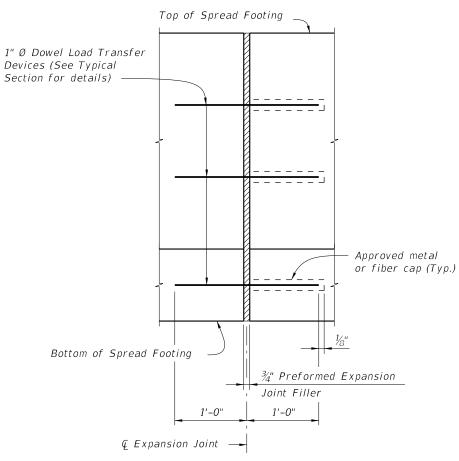
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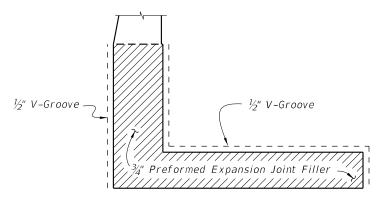
NOTES:

- 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 $\frac{1}{2}$ " V-Grooves and 3/4" Preformed Expansion Joint Filler)

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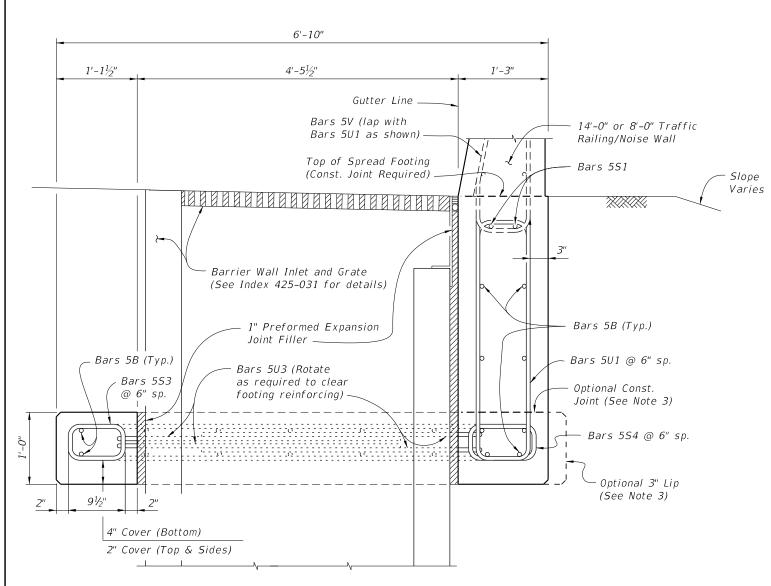
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CONCRETE BARRIER/NOISE WALL L-SHAPED SPREAD FOOTING

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521-514



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)

- 1. Place 8 ~ Bars 5B and 2 Bars S1 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

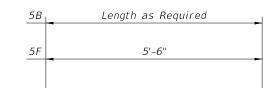
* Bars 5V and 5S1 are included in Index 521-510 or 521-511 quantiles.

CROSS REFERENCE:

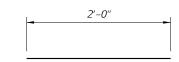
For location of Section A-A, see Sheet 1.

REINFORCING STEEL BENDING DIAGRAMS

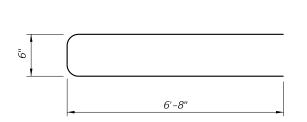
BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
В	5	AS REQD.
F	5	5'-6"
<i>S3</i>	5	3'-7"
<i>S4</i>	5	3'-10"
U 1	5	9'-2"
U2	5	13'-10"
U3	5	12'-10"
DOWEL	1" Ø Smooth Bar	2'-0"

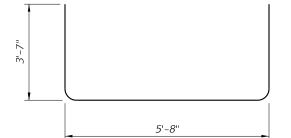


BARS 5B & 5F



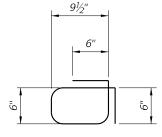
1" Ø DOWEL



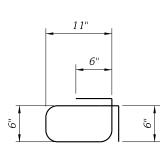


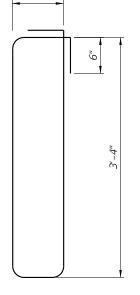
BAR 5U2

BAR 5U3



BAR 5S3





BAR 5S4

BAR 5U1

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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CONCRETE BARRIER/NOISE WALL L-SHAPED SPREAD FOOTING

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DESCRIPTION: