

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	0	0	0	0

GENERAL NOTES FOR PANELS

Use Concrete (Grade 5.0)(AE)(PB). (f'c = 5000 psi; f'c at release = 4000 psi).

Use reinforcing steel conforming to the requirements of ASTM A615, Grade 60. All reinforcing steel shall be epoxy coated.

Use 3/8" nominal diameter, uncoated, seven-wire, low relaxation prestressing tendons conforming to the requirements of ASTM A416, Grade 270.

Initial prestressing force = 16.1 kips per strand.

Submit shop details showing the length of the panels and the method of releasing the strands. Release strands symmetrically beginning with the center strand. Lift panels using four corner PA2 bars or by using alternate lifting devices approved by the Engineer.

Store the panels on a flat surface to prevent warping.

Bedding material for the precast units shall meet the following requirements for expanded or extruded polystyrene:

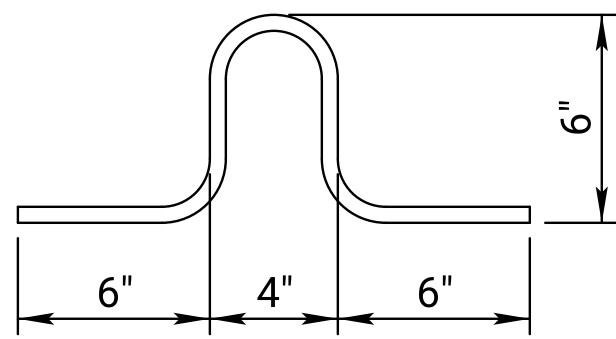
PROPERTY	TEST REQUIREMENTS
Compression Strength 60 psi Min.	ASTM D 1621
Water Absorption 2% by Vol. Max.	ASTM D 2842
Oxygen Index 24 Min.	ASTM D 2863

Glue all panel bedding material to the girder. The glue used shall be the type recommended by the panel bedding material manufacturer. Provide a 1/2" gap in the bedding strips for venting purposes. Locate the gaps near the center of each panel.

Deposit concrete in continuous strips over the girders and allow to flow under the ends of the composite deck panels. Consolidate concrete by additional insertion of vibrators directly over girder line. Concrete should then be placed on the remainder of the panels.

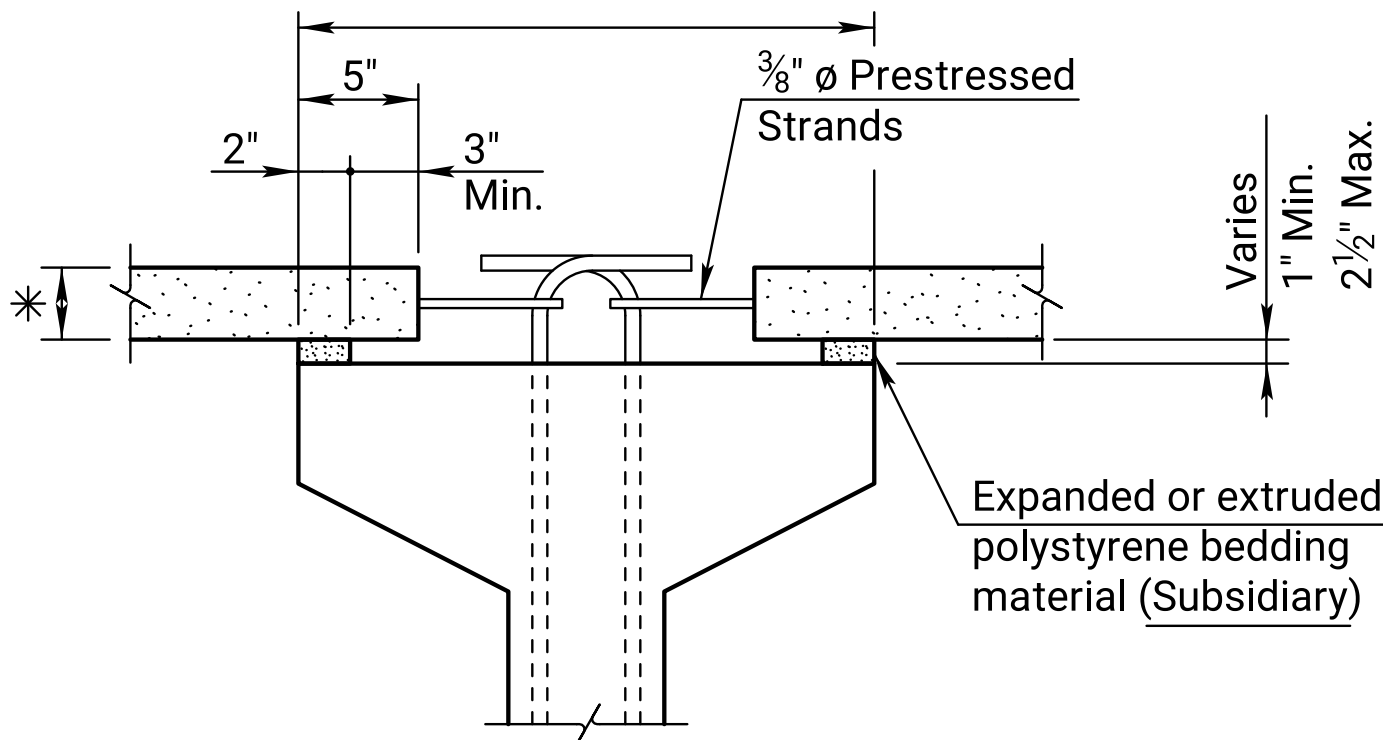
Handle the panels so that the PA2 bars are not damaged. Repair any damage to the PA2 bar epoxy coating in accordance with the KDOT Specifications.

TOLERANCES FOR PANELS	
Thickness	+ 1/4", - 1/8"
Length	± 1/4"
Width	± 1/4"
Square Ends (deviation from square)	± 1/4"
Deviation from straightness of mating edge	± 1/8"
Position of Strands:	
± 1/8" Vertical, ± 1/2" Horizontal	

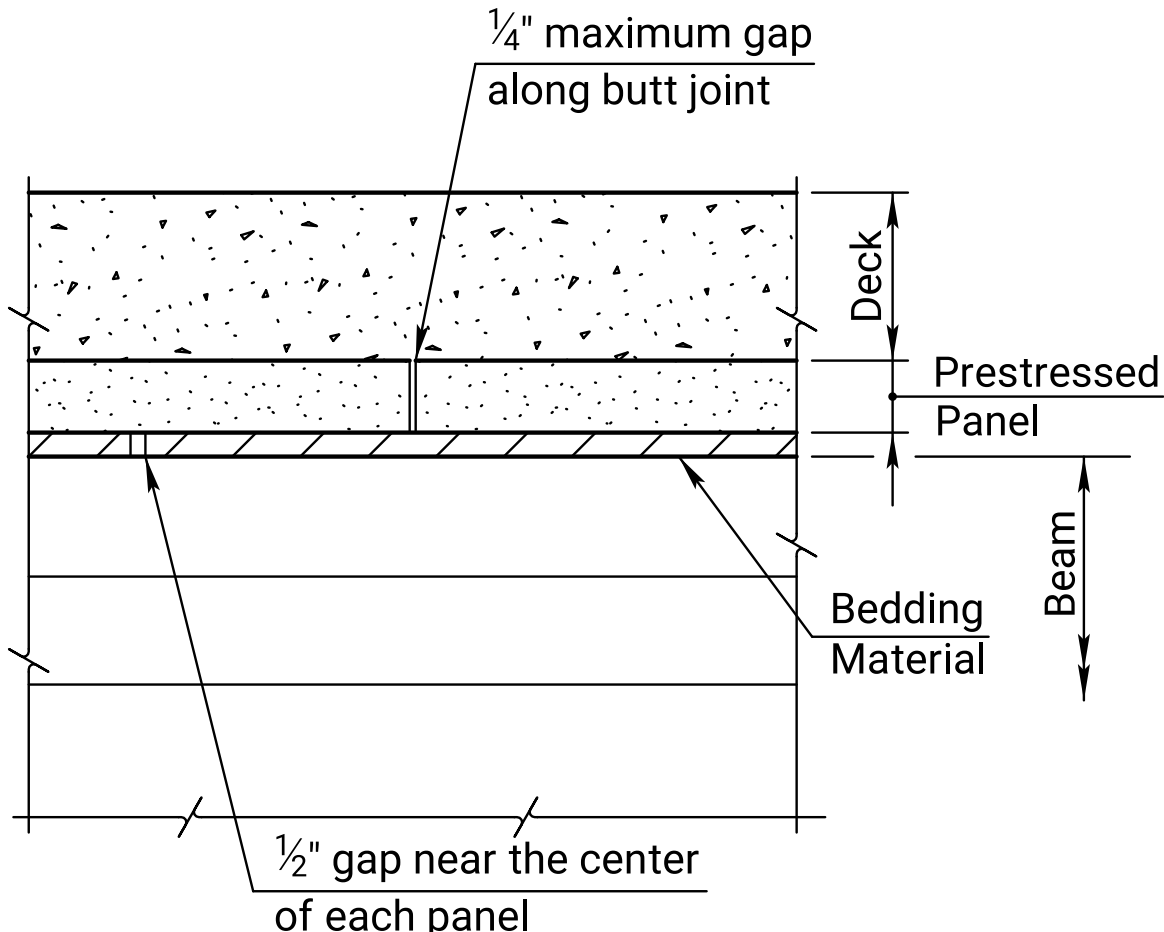


#3PA2 BAR BENDING

Note to Designer: (To be removed)
Modify "Typical slab Section" to correspond to your structure.



DETAIL "A"

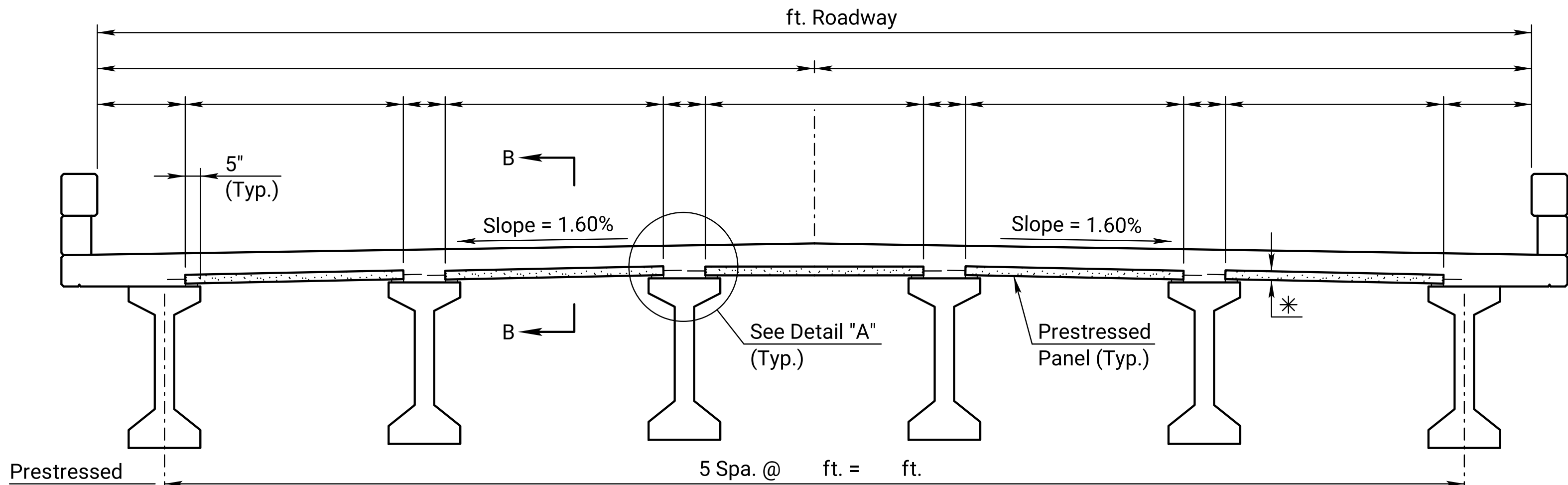


SECTION B-B

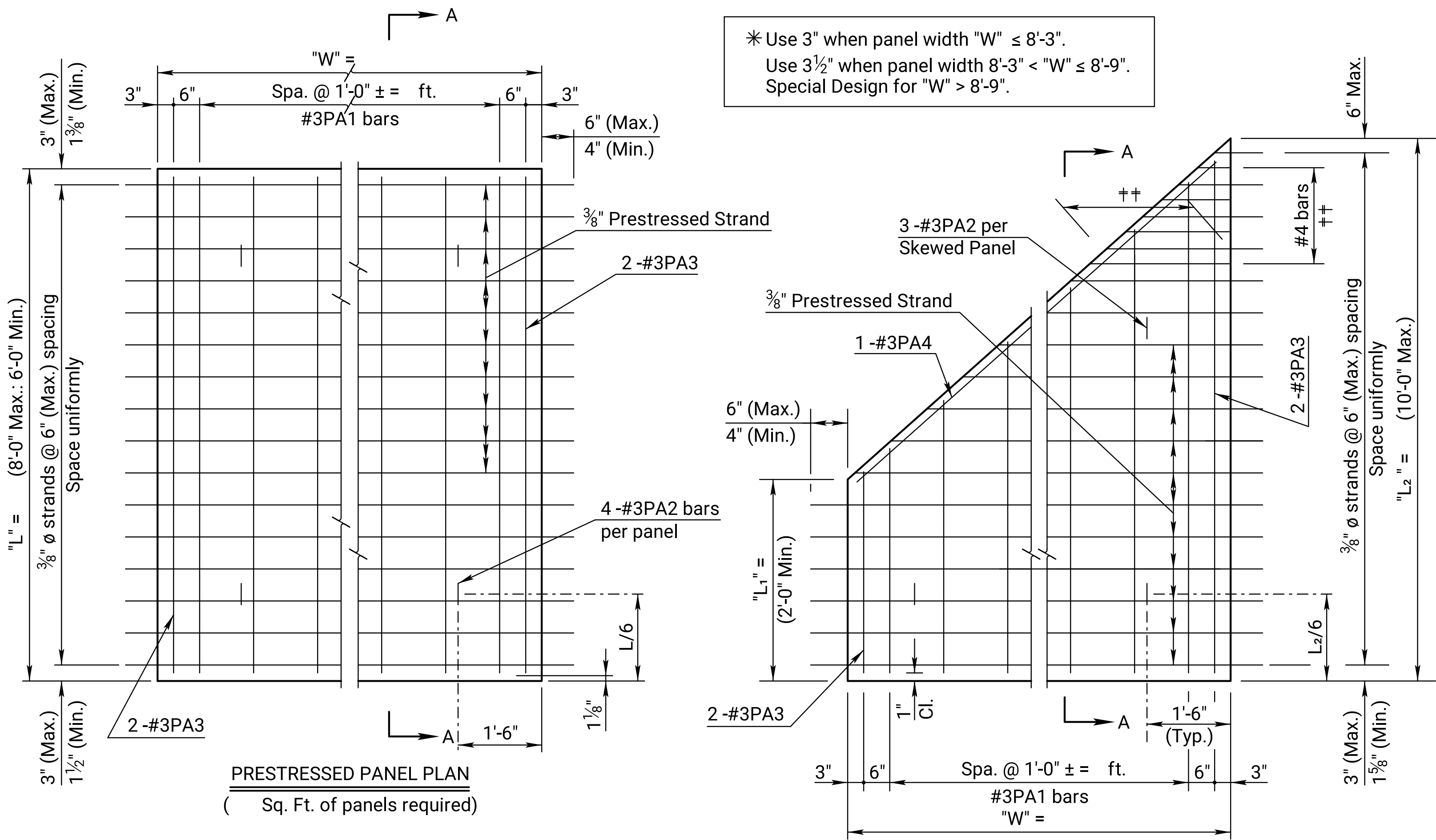
BILL OF MATERIALS (Panels)	
Concrete	Cu. Yds.
Reinforcing Steel	Lbs.
3/8" Ø Prestressed Strands	Lin. Ft.

Quantities shown for information only. These quantities shall not be paid for directly but shall be included in the unit price bid for "Prestressed Concrete Panels".

03	08-16-18	Notes, dimension, table corrections	M.L.L.	J.P.J.
02	07-30-07	LRFD Review	J.P.J.	K.F.H.
01	10-04-04	Current Release	J.P.J.	K.F.H.
NO.	DATE	REVISIONS	BY	APPD
KANSAS DEPARTMENT OF TRANSPORTATION				
Br. No.			Sta.	
PRESTRESSED CONCRETE PANEL DETAILS			Co.	
Proj. 0				
DESIGNED	DETAILED	QUANTITIES	CADD	
DESIGN CK.	DETAIL CK.	QUAN. CK.	CADD CK.	

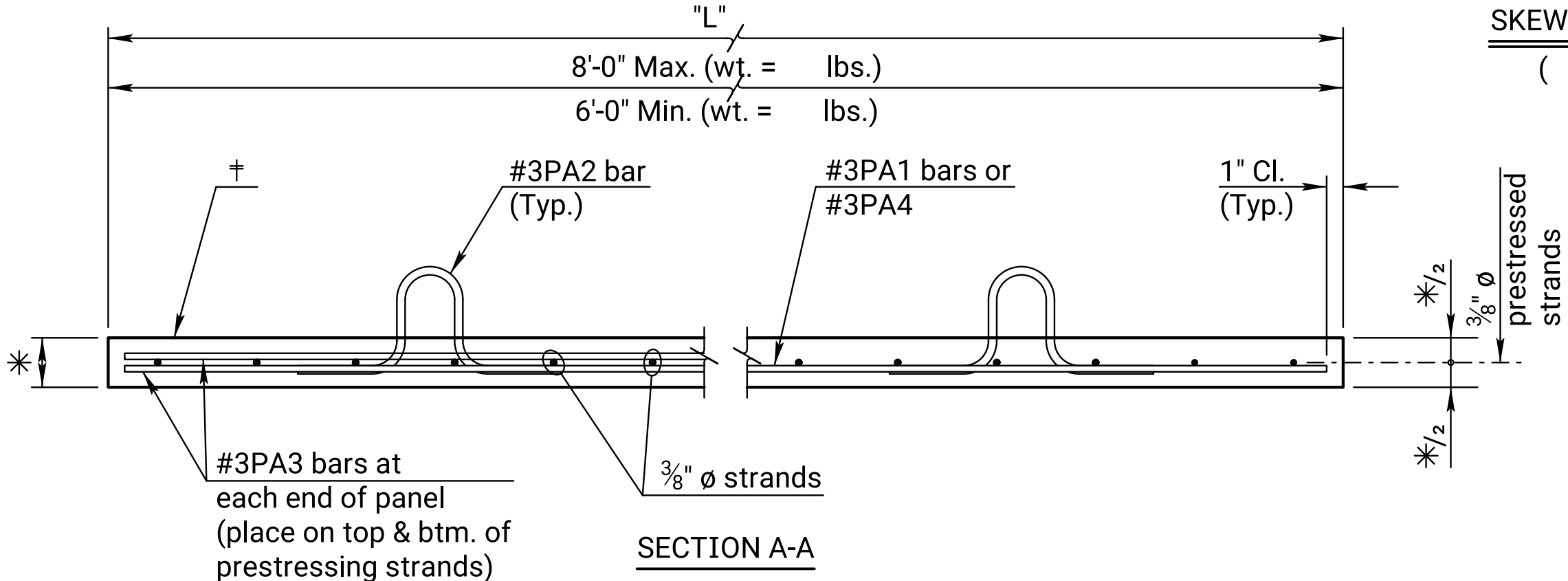


TYPICAL SLAB SECTION



PRESTRESSED PANEL PLAN
(Sq. Ft. of panels required)

SKewed PRESTRESSED PANEL PLAN
(Sq. Ft. of panels required)



SECTION A-A

† When initial set occurs, rake the surface perpendicular to the strands making depressions of approximately 1/4". Use care with the rake to prevent pulling out the coarse aggregate. The Contractor shall make every effort to insure that this surface remains free of foreign material until the deck concrete is placed.

†† Any strand embedded 2'-0" or shorter shall have a #4 epoxy-coated reinforcing bar placed on each side of it, centered between the strands. The reinforcing bars do not need to extend beyond the limits of the panel. Strands 2'-0" or shorter may then be debonded at the fabricator's option.