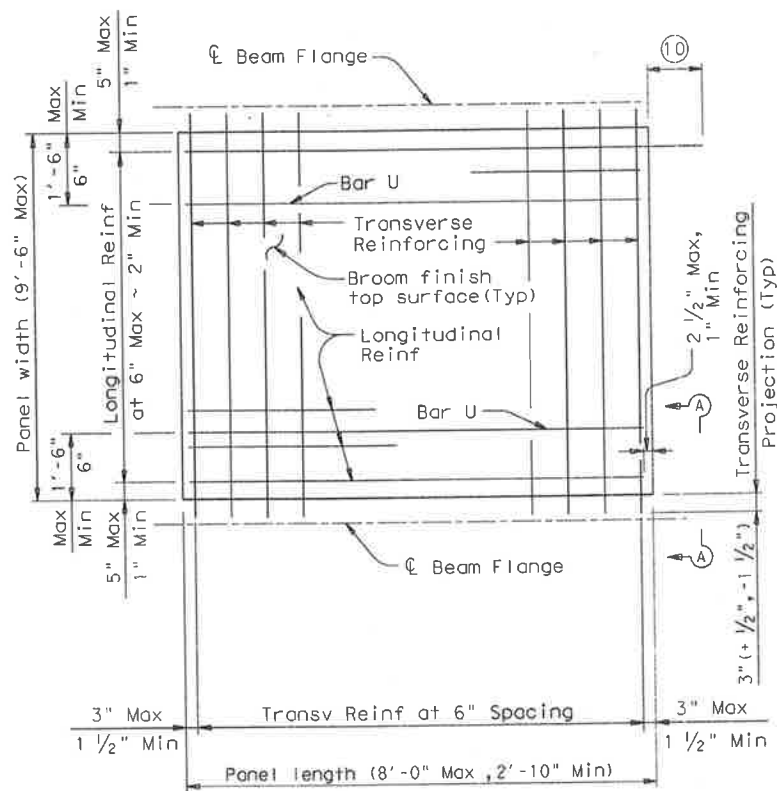
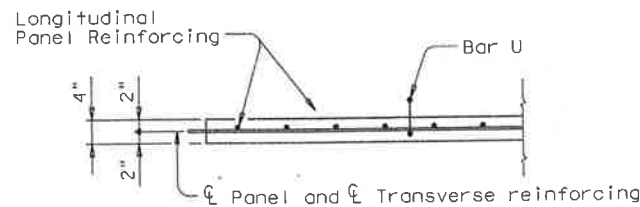


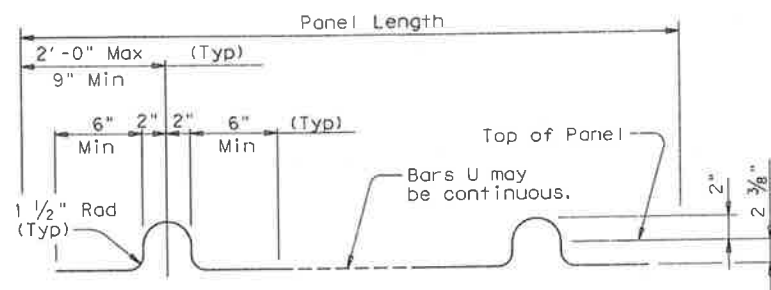
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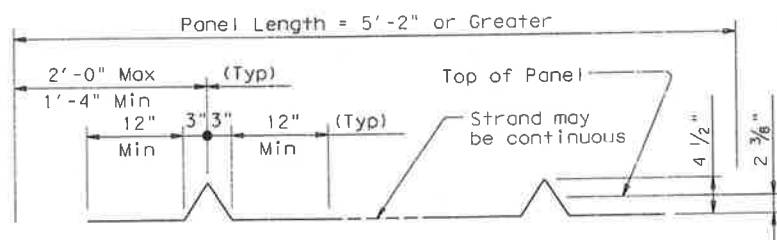
TYPICAL PANEL PLAN



SECTION A-A

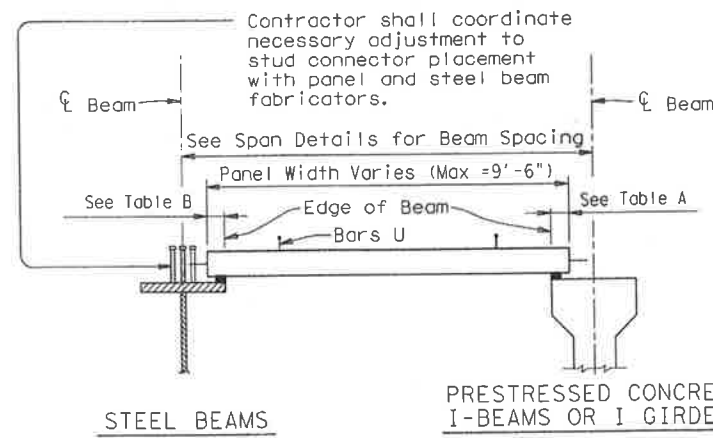


BARS U (#3) (21)



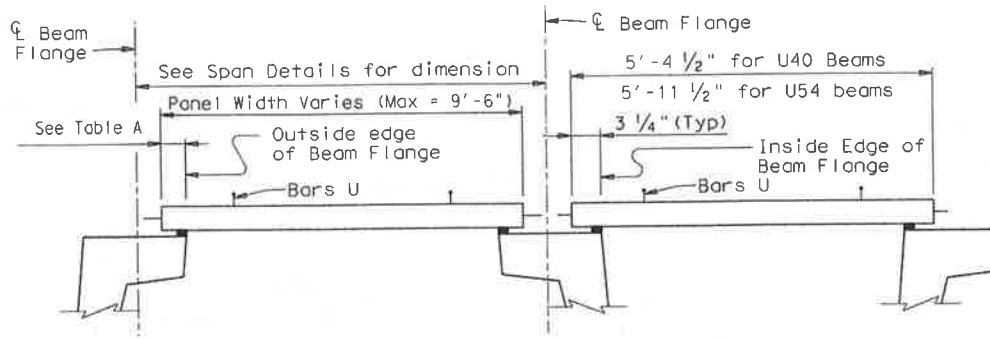
OPTIONAL STRAND FOR BARS U (22)

- (10) At connection with cast-in-place slab, extend longitudinal panel reinforcement 1'-0" (+2", -0") past panel end. Alternatively, provide (#3) x 2'-0" dowels at 6" Max Spacing and extend dowels 1'-0" past panel end.
- (21) Four loops required per panel.
- (22) Four loops required per panel. 3/8" or 1/2" strands may be used.
- (23) Normal dimensions must be used on spans with parallel beams. Maximum and Minimum dimensions apply only to spans with flared beams.
- (24) See Normal Grading Detail on Sht 1 of 4 for lap requirements and bedding strip dimensions. Some laps shown in tables cannot utilize all bedding strip widths.
- (25) One Splice allowed per panel.



STEEL BEAMS

PRESTRESSED CONCRETE I-BEAMS OR I GIRDERS



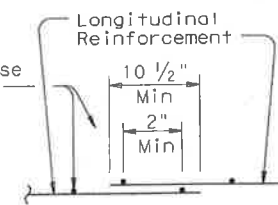
PRESTRESSED CONCRETE U-BEAMS

TYPICAL SECTIONS FOR DETERMINING PANEL WIDTH

Beam Type	Normal (In.)	Min (In.)	Max (In.)
A	3	2 1/2	3 1/2
B	3	2 1/2	3 1/2
C	4	3	4 1/2
IV	6	4	7 1/2
VI	6 1/2	4 1/2	8 1/2
U40	5 1/2	5 1/2	7
U54	5 1/2	5 1/2	7
Tx28-70	6	4	7 1/2

Top Flange Width	Normal (In.)	Min (In.)	Max (In.)
11" to 12"	2 3/4	2 1/2	2 3/4
Over 12" to 15"	3 1/4	3	3 1/4
Over 15" to 18"	4	3	4 3/4
Over 18"	5	3 1/2	6 1/4

No splice required for wires parallel to strands (transverse panel reinforcement)



WELDED WIRE REINFORCEMENT (WWR) SPLICE DETAIL (25)

**FABRICATION NOTES:**  
 All concrete for panels is to be Class H. Use Class H (HPC) concrete for panels if required elsewhere in plans. Release strength  $f'_{ci}$  = 4000 psi. Minimum 28 day strength  $f'_c$  = 5000 psi.  
 Remove laitance from top panel surface.  
 A minimum of 90 percent of the top surface area must have the required broom finish.  
 Shop drawings for the fabrication of panels will not require the Engineer's approval if fabrication is in accordance with the details shown on this standard.  
 A panel layout which identifies location of each panel must be developed by the fabricator. Permanently mark each panel in accordance with the panel layout. A copy of the layout is to be provided to the Engineer.

**TRANSVERSE PANEL REINFORCEMENT:**  
 For panel widths over 5', use 3/8" or 1/2" Dia (270k) prestressing strands with an initial tension of 16.1 kips per strand.  
 For panel widths over 3'-6" up to and including 5', use 3/8" or 1/2" Dia (270k) prestressing strands with an initial tension of 16.1 kip per strand. Optionally, #4 Grade 60 reinforcing bars may be used in lieu of prestressed strands.  
 For panel widths up to 3'-6", use #4 Grade 60 reinforcing bars (prestressed strands are not allowed).  
 Place transverse panel reinforcement at panel centroid and space at 6" Max.

**LONGITUDINAL PANEL REINFORCEMENT:**  
 Any of the following options may be used for longitudinal panel reinforcement:  
 1. (#3) Grade 60 reinforcing steel at 6" Max Spacing. No splices allowed.  
 2. 3/8" Dia prestressing strands at 4 1/2" Max Spacing (unstressed). No splices allowed.  
 3. 1/2" Dia prestressing strands at 6" Max Spacing (unstressed). No splices allowed.  
 4. Deformed Welded Wire Reinforcement (WWR) (ASTM A497) providing 0.22 sq in per foot of panel width. Wires larger than D11 not permitted. Provide transverse wires to ensure proper handling of reinforcing. One splice per panel is allowed. See WWR Splice Detail.  
 No combination of longitudinal reinforcement options in a panel is allowed.  
 Place longitudinal panel reinforcement above transverse panel reinforcement.



PRESTRESSED CONCRETE PANELS  
 OPTIONAL DECK DETAILS FOR BEAM SPANS

PCP

FILE: pcpstdel.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CR: TxDOT
©TxDOT April 2006	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
08-07: Added I-Girders and added note to WWR splice detail.	COUNTY	CONTROL	SECT	JOB HIGHWAY

LEVELS DISPLAYED	ACC:
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