

- By Design: For all S1, S2, S3, S5 & S6 bars,
#4 is preferred, but #5 is allowed.

Standard Drawing Guidance (do not show on plans):
(Turn off level Bridge-Construction to hide guidance)

- ① Adjust length of U1 bar if U1 bar or S1/S2 bars are a different size.
- ② Show strand arrangement, bent up strands, and debonding (if any) based on design. Debonded lengths shall be given by designer. Add or remove symbols from table as needed. Strands may be placed continuously across beam (eliminating 4" space), but dimension to drain hole on second sheet will need to be revised from 11" to 10".
- ③ U2 shall be changed to shape 21 when the box beam is skewed. Additional bar marks S5 and S6, both Shape 19, are also required for a skewed box beam. Replace bar chart for squared-end beam with chart for skewed-end beam.
- ④ Lap splices shall be shown only when necessary (lengths greater than 60'-0"). Use 2'-1" lap for #4, 2'-7" lap for #5.
- ⑤ 3"Ø vent pipe shall be added when box beam is to be placed over water. When vent pipe is used, do not place a set of S bars at ϕ Beam.
- ⑥ The dimension to the first C1 bar shall be from the end of the box beam. The first C1 bar should be placed within a range of 1'-0" and 2'-6" past the last S2 bar, with C1 bars at 3' cts. An 18" space may be used from ϕ Beam if needed.
- ⑦ S5 and S6 bars for skewed box beams shall be shown and annotated with ***, referencing this added note, *** Splay and cut to fit. (See std sheet PSBXB02)
- ⑧ Greater than 9" may be used, by design, to lessen the minimum steel requirement for interface shear. Remove underlined part for CIP slabs.
- ⑨ Show all U1 and U2 bars.
- ⑩ When #5-S1 bars are required for 17", 21" or 27" box beams use 6" for hook dimension. #5-S1 bar length = 6'-7", 7'-3" and 8'-3" for 17", 21" and 27" box beams respectively.
- ⑪ When #5 bars are used for S1 & S2 stirrups, reduce dimension by 1/4".
- ⑫ 43.94 kips per strand (for 0.6" strands), rounded to nearest whole kip.
- ⑬ Remove this note if top strands are included in strand arrangement by design.