### DESIGN NOTES:

- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Joints must be designed for a minimum of 50 percent of the beam strength at the joint.
- Flexural capacity should not be less than the equivalent uncracked flexural strength.
- Full-length debonded strands are only permitted in positions marked "x".
- Do not debond strands in position "1". Distribute debonded strands equally across the entire width.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use stirrups at 12" on center for beams.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.

### FABRICATION NOTES:

- Provide Class H concrete.
- Provide Grade 60 reinforcing steel bars.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.

### Optional Design

- Tension = 0.24 f'ci
- Based on the following allowable stresses (ksi):
  - Compression = 0.65 f'ci
  - Tension = 0.24 f'ci

### Design Specifications

- Optional designs must likewise conform.
- Full-length debonded strands are only permitted in positions marked "x".
- Do not debond strands in position "1". Distribute debonded strands equally across the entire width.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.

### TxDOT 5XB34 BEAMS

- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Joints must be designed for a minimum of 50 percent of the beam strength at the joint.
- Flexural capacity should not be less than the equivalent uncracked flexural strength.
- Full-length debonded strands are only permitted in positions marked "x".
- Do not debond strands in position "1". Distribute debonded strands equally across the entire width.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.

### TxDOT 5XB28 BEAMS

- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Joints must be designed for a minimum of 50 percent of the beam strength at the joint.
- Flexural capacity should not be less than the equivalent uncracked flexural strength.
- Full-length debonded strands are only permitted in positions marked "x".
- Do not debond strands in position "1". Distribute debonded strands equally across the entire width.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.

### TxDOT 5XB20 BEAMS

- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Joints must be designed for a minimum of 50 percent of the beam strength at the joint.
- Flexural capacity should not be less than the equivalent uncracked flexural strength.
- Full-length debonded strands are only permitted in positions marked "x".
- Do not debond strands in position "1". Distribute debonded strands equally across the entire width.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.

### TxDOT 5XB40 BEAMS

- Designed in accordance with AASHTO LRFD Bridge Design Specifications.
- Joints must be designed for a minimum of 50 percent of the beam strength at the joint.
- Flexural capacity should not be less than the equivalent uncracked flexural strength.
- Full-length debonded strands are only permitted in positions marked "x".
- Do not debond strands in position "1". Distribute debonded strands equally across the entire width.
- Use low relaxation strands, each pretensioned to 75 percent of fpu.
- Provide Grade 60 reinforcing steel bars.
- Provide Class H concrete.
- Use through 30 degree skews.
- Beam designs are applicable for 8" concrete slabs without overlay and 0 through 30 degree skew.