

- NOTES:
- TURN-A-ROUND BAYS USUALLY 45' WITH END-BAY PARKING WITHOUT END-BAY PARKING IS USUALLY 24' +/-.
 - ELIMINATE THESE COLUMNS FOR SIDE ENTRANCE/EXIT AND USE GRIDER "D".
 - FOR BAY WIDTH DIMENSION ② FOR SHORT SPAN CONSTRUCTION USE A MULTIPLE OF A CARSPACE OR 2 x 8'-6" (2 FULL SIZE CAR SPACES) = 17'-0"
 - DESIGN MAY USE PRECAST EXTERIOR PANEL FOR EXTERIOR STRUCTURAL ELEMENT AND ELIMINATE STEEL BEAM.
- E. BEAM SIZES SHOWN IN TABLE "D".
- NOTES:
- BAY WIDTH RANGE 18'-20'
 - FILIGREE SPANS EXCEEDING 18' REQUIRE TEMPORARY SHORING DURING CONSTRUCTION.

Fig. 3-23. Cast-in-Place Conventionally Reinforced Slab on Precast Forms

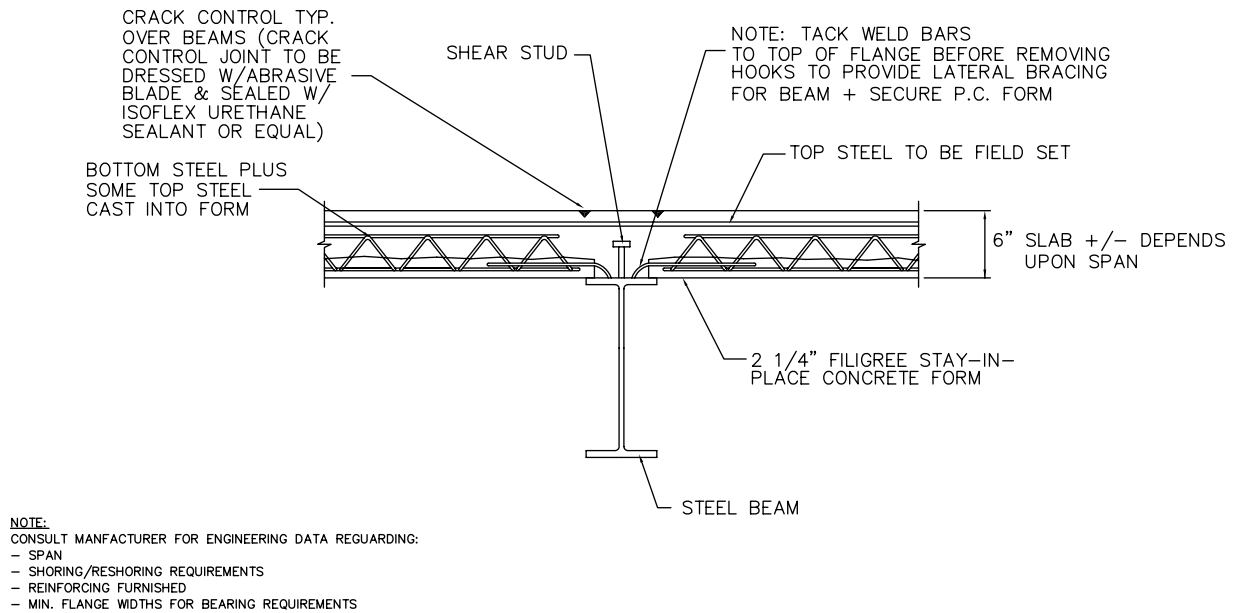


Fig. 3-24. Typical Detail at Control Joints

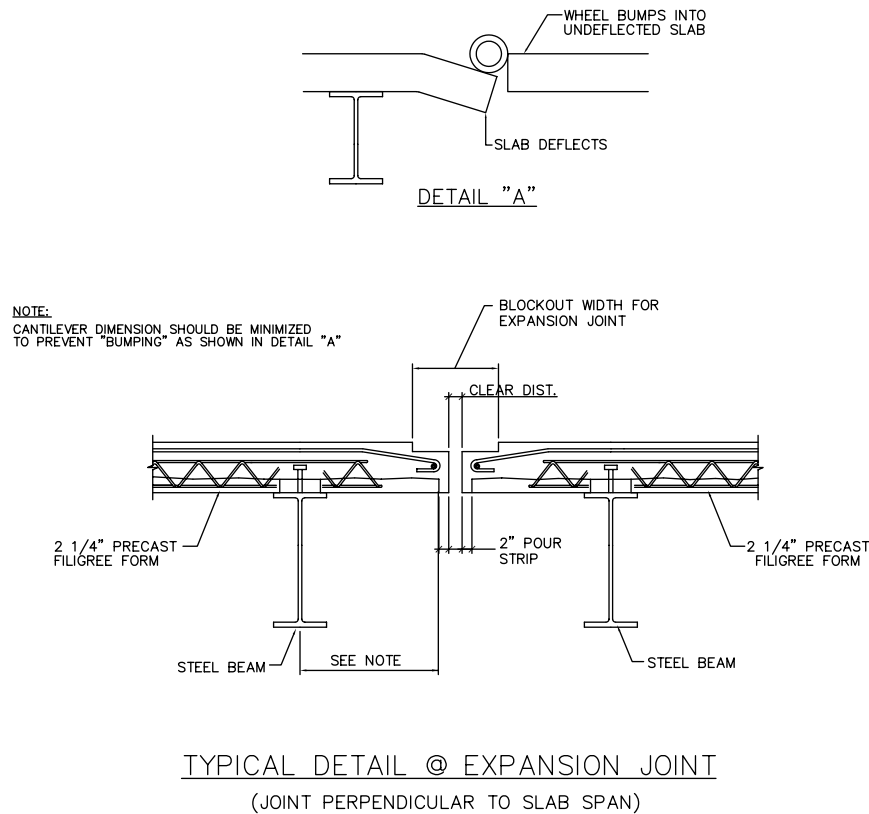
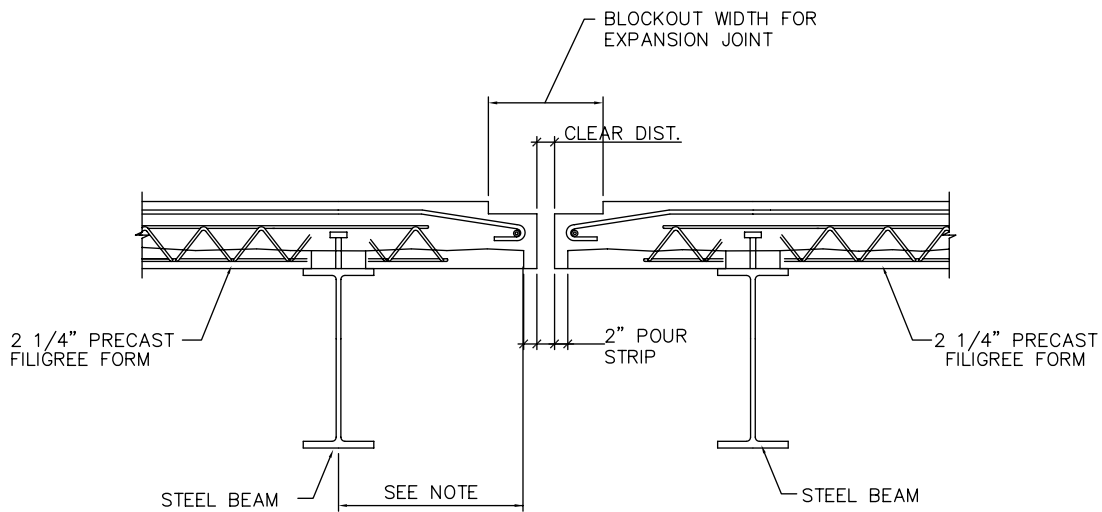


Fig. 3-25. Typical Detail at Expansion Joint—Joint Perpendicular to Slab Span



TYPICAL DETAIL @ EXPANSION JOINT
(JOINT PARALLEL TO SLAB SPAN)

Fig. 3-26. Typical Detail at Expansion Joint—Joint Parallel to Span

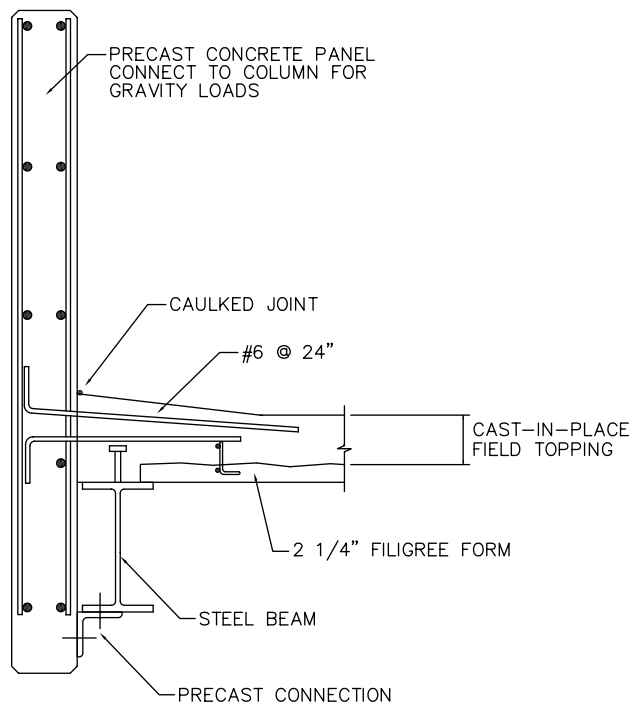


Fig. 3-27. Typical Precast Connection to Steel Beam and Slab

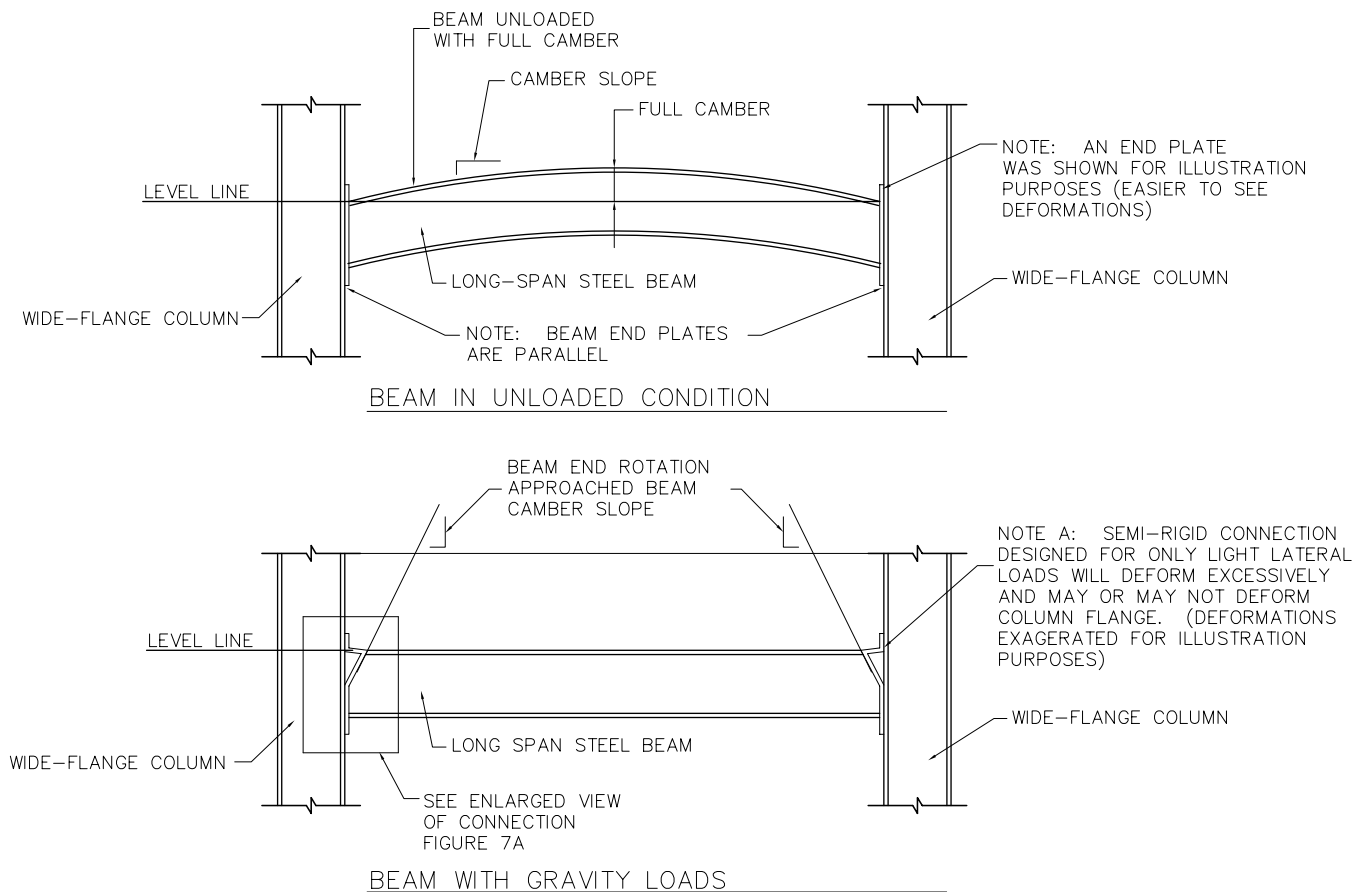


Fig. 3-28. Beam Loading Conditions

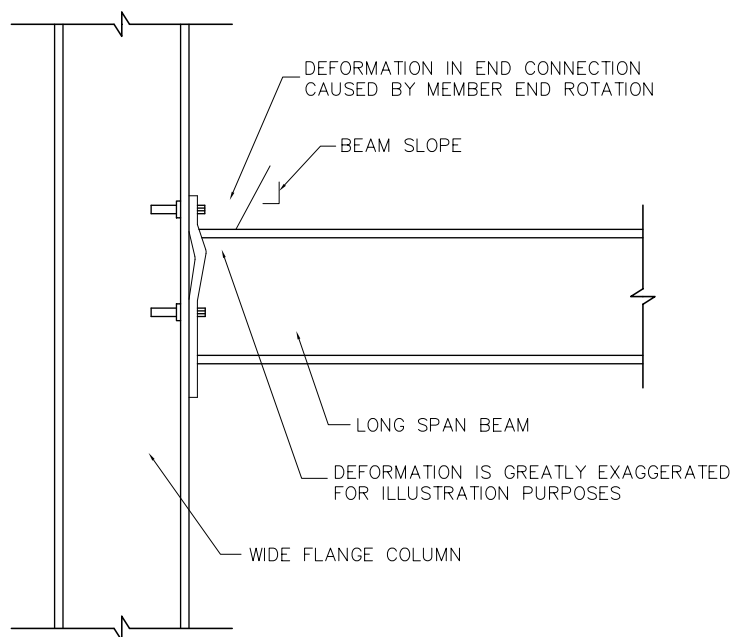
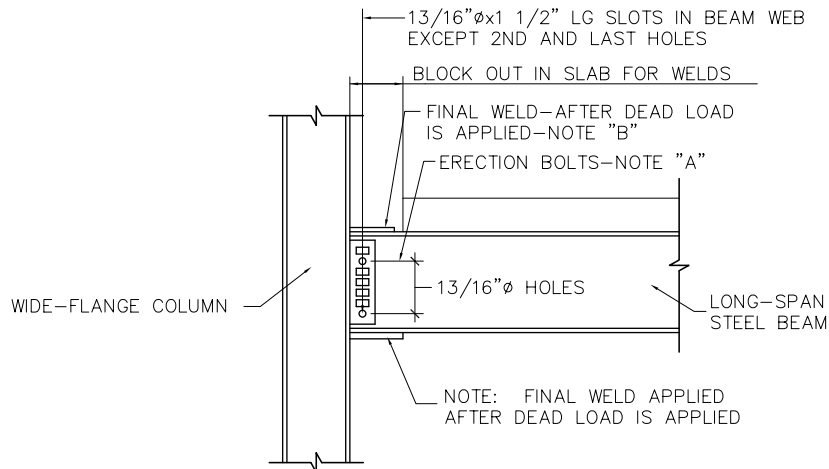


Fig. 3-29. Deformation in End Connections



EXAMPLE OF A STAGED CONNECTION

NOTES:

- A. THE ERECTION BOLTS ARE USED TO STABILIZE STRUCTURE DURING ERECTION AND IS REMOVED WHEN DEAD LOAD IS APPLIED (ONLY PULL BOLTS FROM BEAMS AFFECTED) THE TERM DEAD LOAD APPLIED REFERS TO ACTIVITIES SUCH AS SLABS BEING POURED, ETC.
- B. AFTER DEAD LOAD IS APPLIED FINAL WELDING OF BEAM TO COLUMN CONNECTION SHOULD TAKE PLACE (OR SIMILAR DETAIL).

Fig. 3-30. Staged Connection

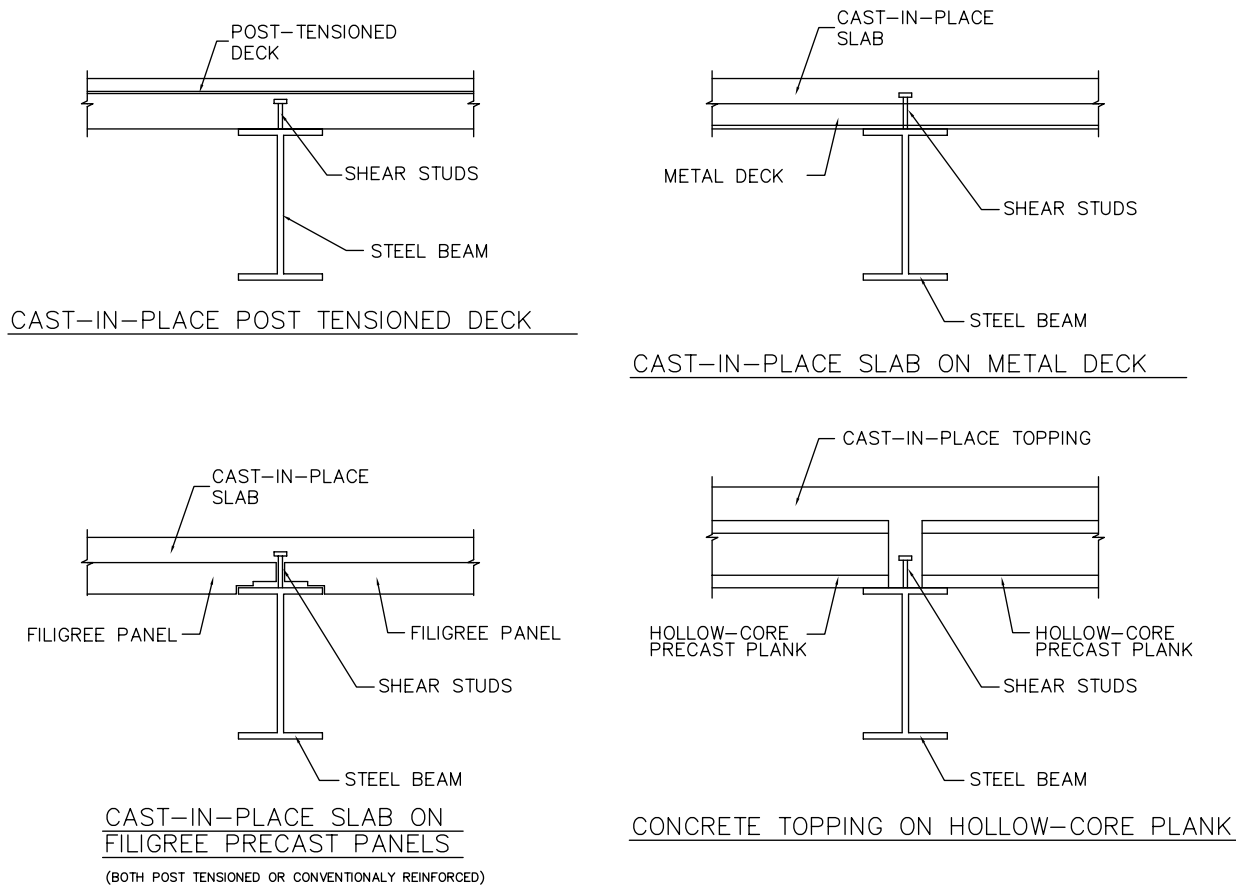


Fig. 3-31. Composite Beams

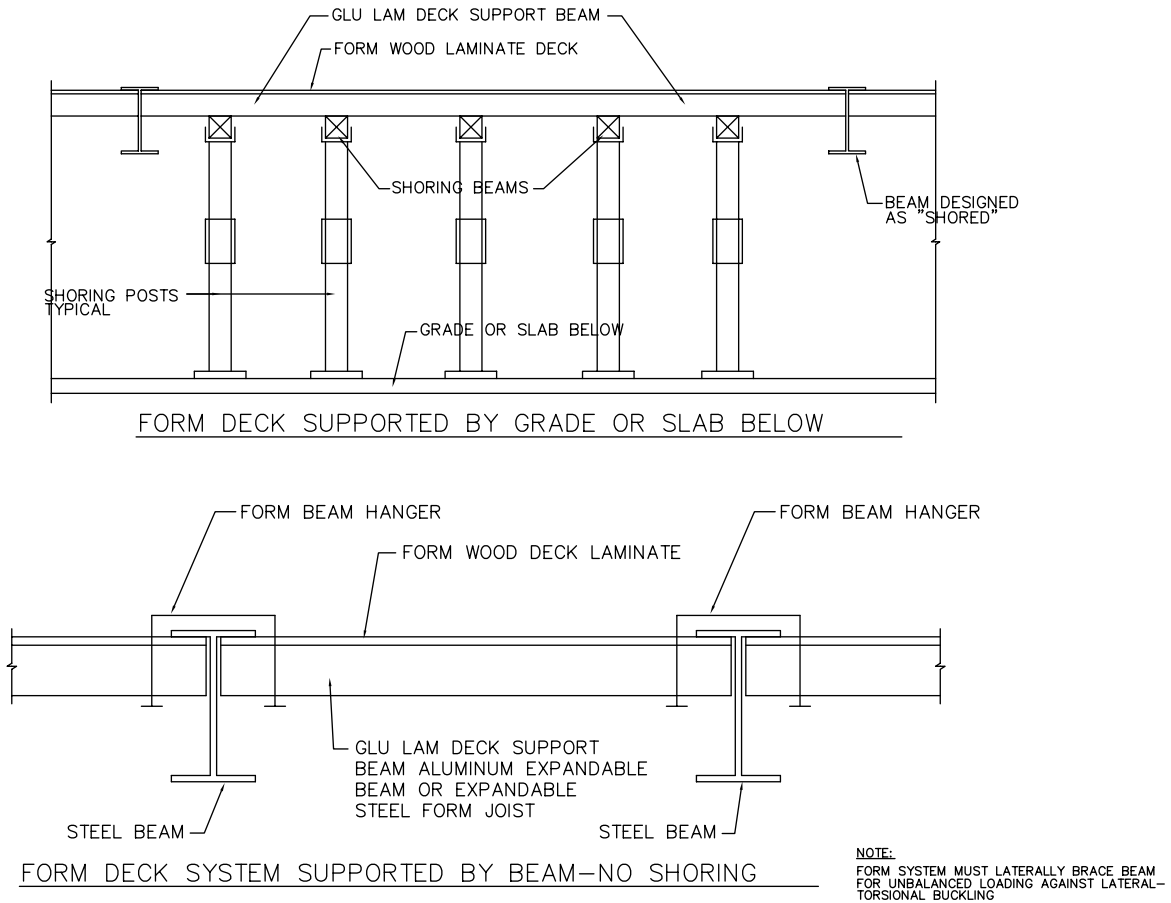


Fig. 3-32. Form Deck System Supported by Beam—No Shoring

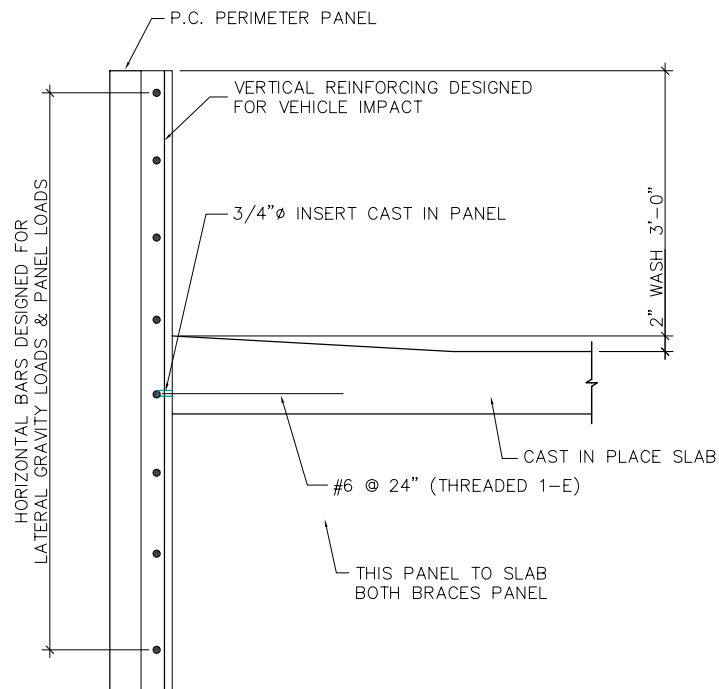


Fig. 3-33. Perimeter Panel Beams

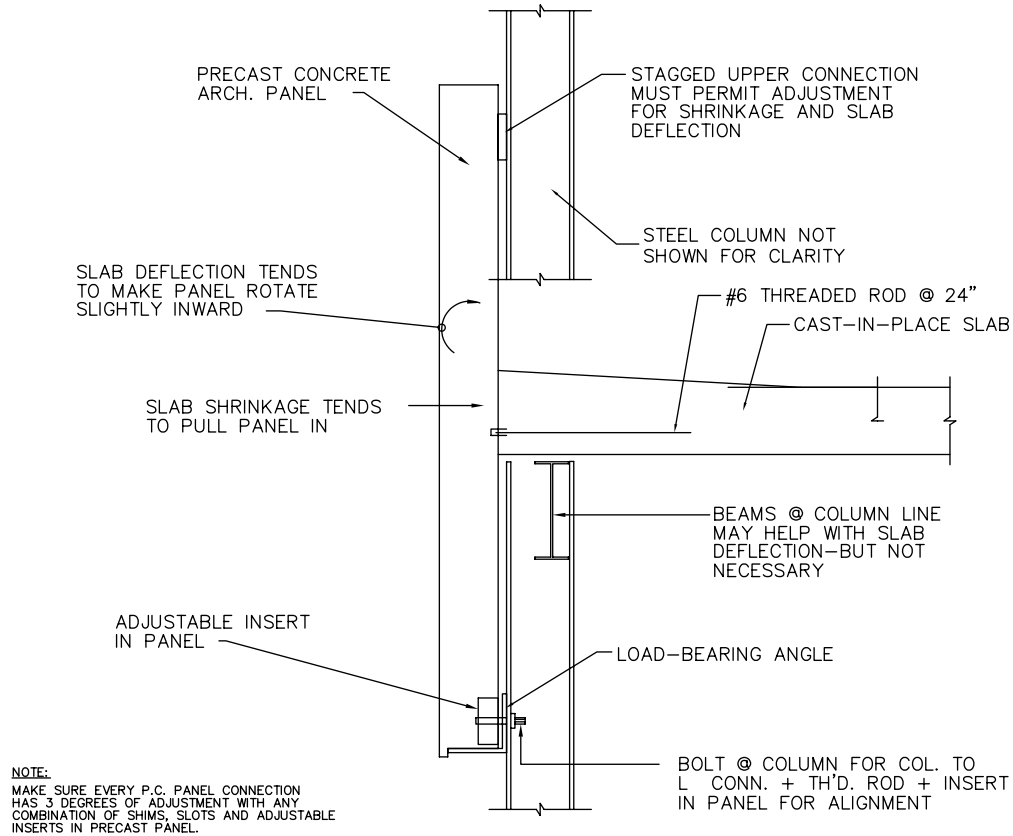
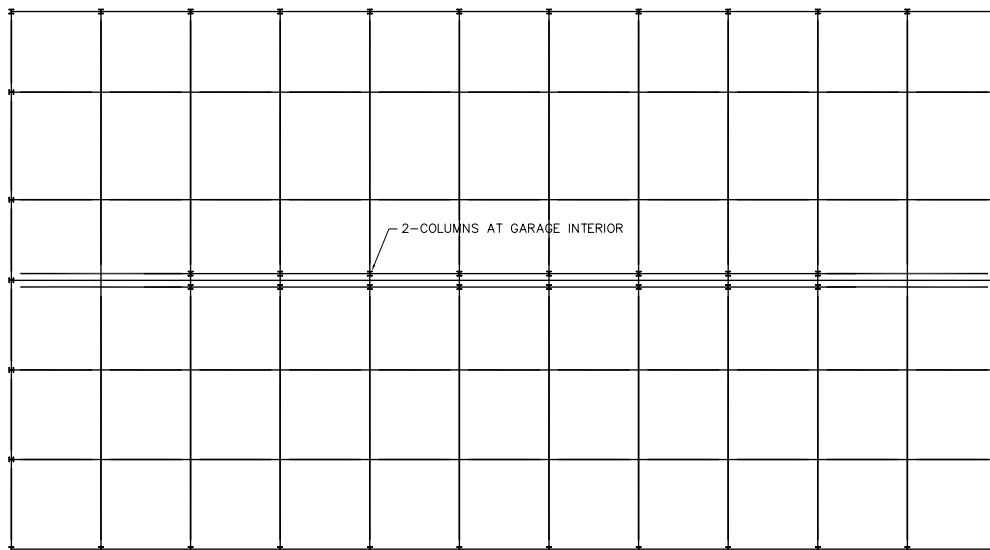


Fig. 3-34. Attachment of Precast Panels



EXAMPLE OF OLDER 2 COLUMN LAYOUT

(DO NOT USE) IS MORE EXPENSIVE PLUS ADDED FLOOR AREA

NOTE:

RATIONALE BEHIND THIS LAYOUT WAS SIMPLIFYING STEEL DETAILING. ONE RAMP FRAMING INTO ONE COLUMN—NOT TWO AS WITH ONE COLUMN.

Fig. 3-35. Reinforcement of Older 2-Column Layout

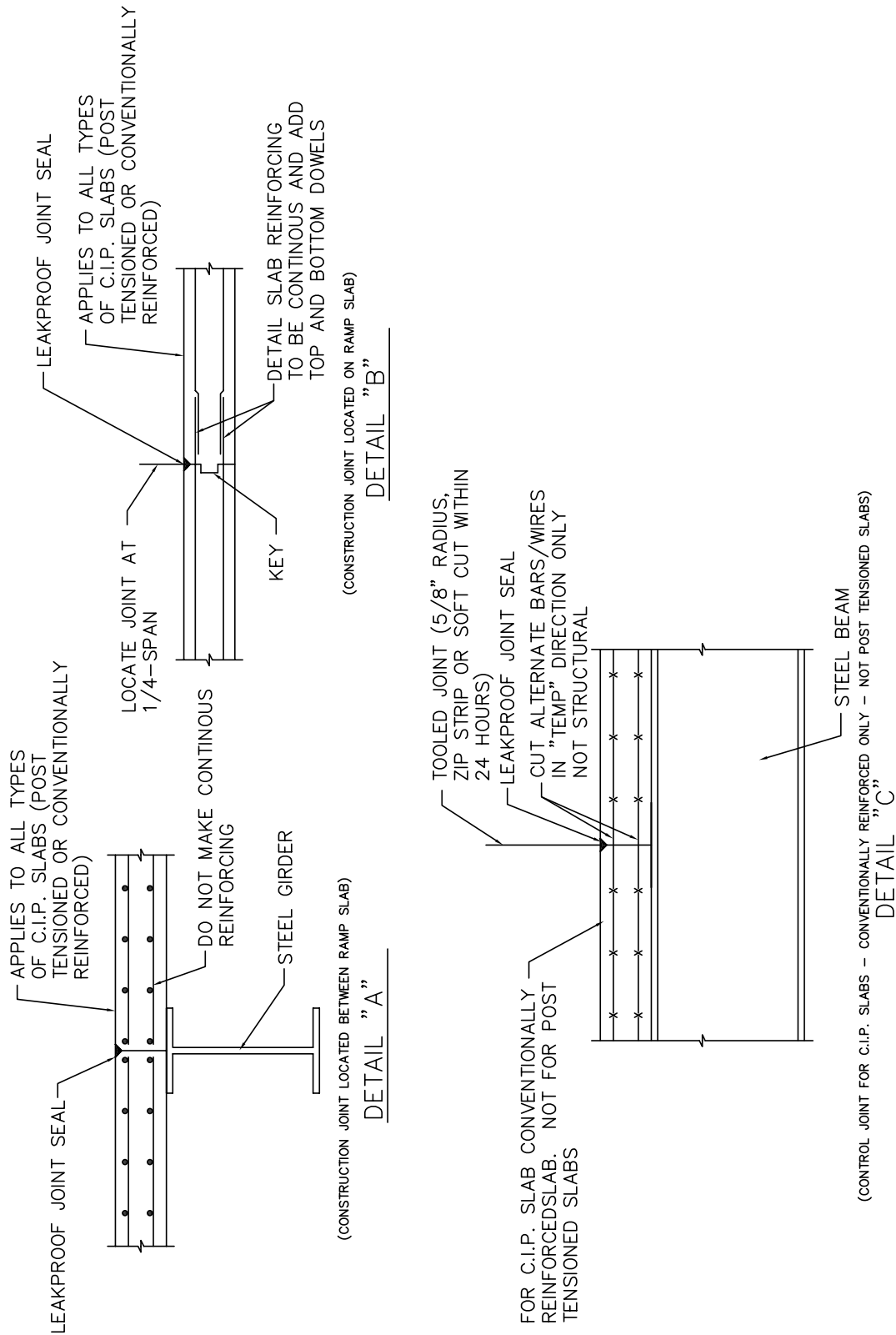


Fig. 3-36. Construction Joints

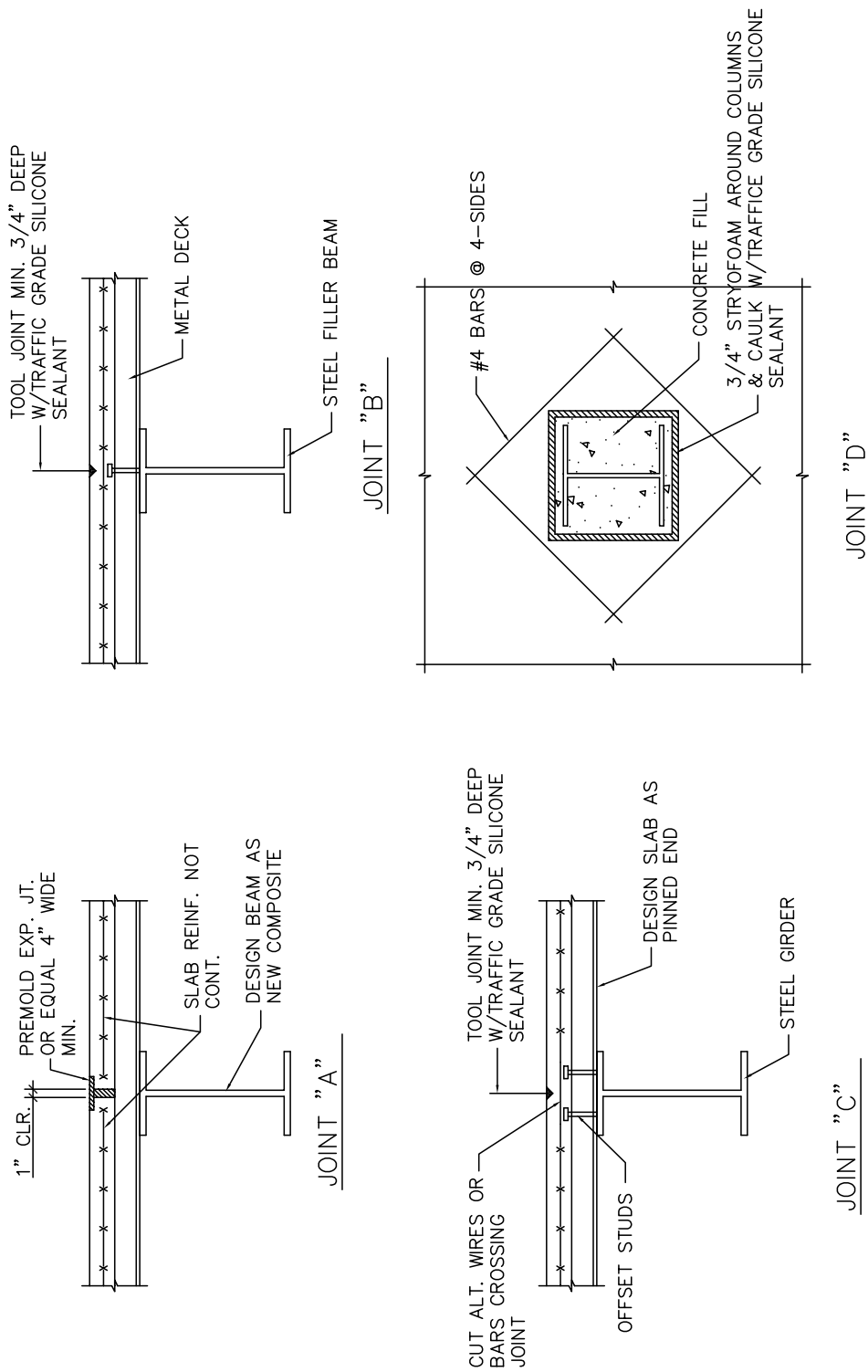
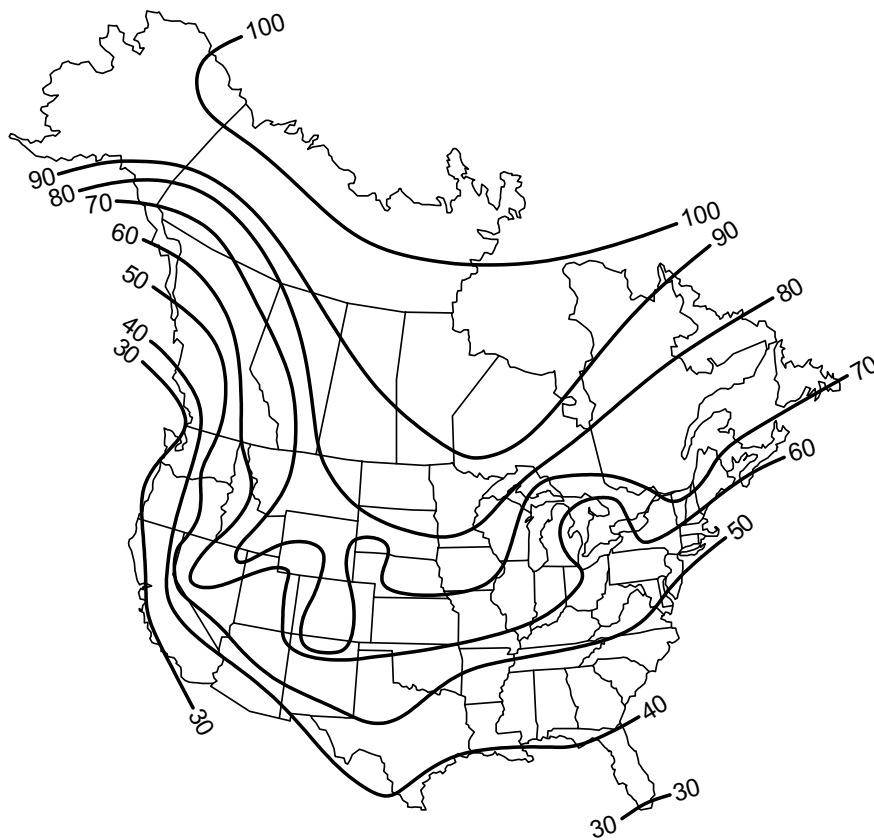


Fig. 3-37. Control Joints



MAXIMUM SEASONAL CLIMATIC TEMPERATURE CHANGE, °F

Fig. 3-38. Thermal Map of the United States

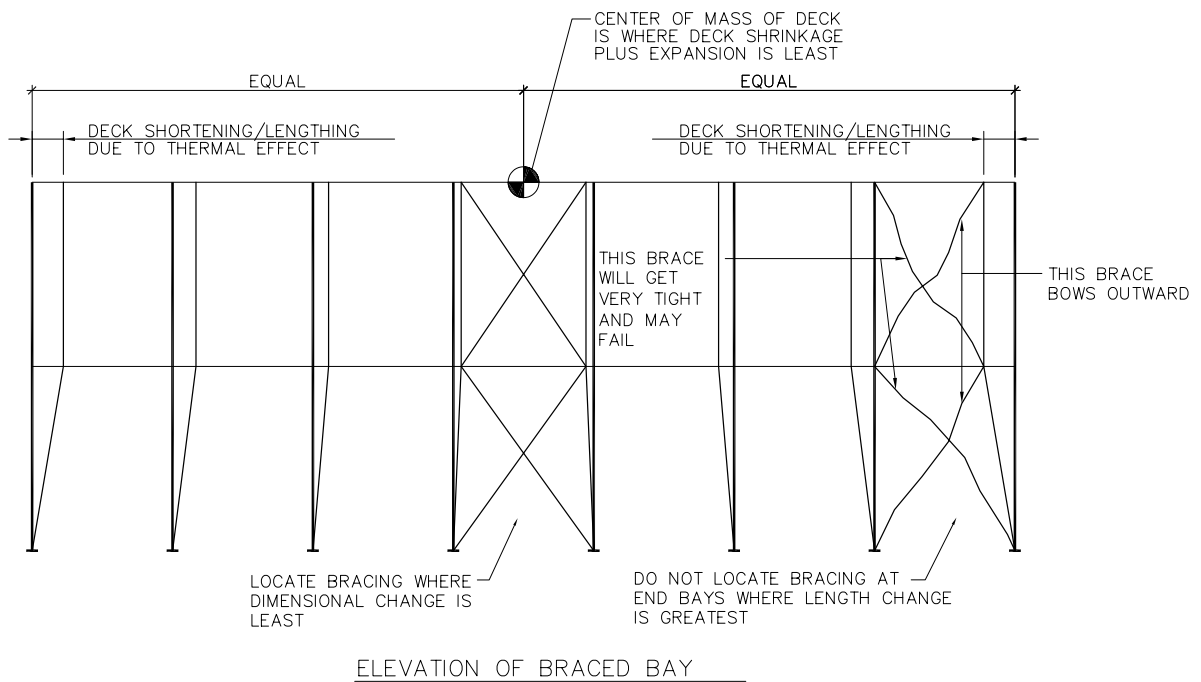


Fig. 3-39. Location of Bracing