

(notched)

ELEVATION

BOTTOM FLANGE BRACING DETAILS

Tight fit (Typ.)

Bolt (Min.)

DIAGONAL BRACING DETAILS

( To be used on both ends of the first beam erected in the span.)

1

END VIEW

Cost-in-place structural insert

Top Bracing @ or Permanent Top Bracing @, or on In-Place Diaphragm with Permanent Top Bracing 5.

Indicates "X" Bracing 3 and Permanent Top Bracing 3 A or on in-Place Disphragm with Permanent Top Bracing @ △ General Revisions JFN 3-5-83 TEXAS TURNPIKE AUTHORITY

GENERAL NOTES

SLAB PLACEMENT BRACING

and special pravisions thereto.

GENERAL

prior to erection

the structure.

Erection bracing details are considered minimum for fulfilling the requirements of Specification Item 425 (Article 425.5), and Special Provisions thereto, for bracing Types A,B,C, III, IV and V prestressed concrete beams erected in the span over a traveled way or railroad, and in those spans generally parallel to a traveled way or railroad and within a distance equal to the difference in elevation between the top of cap upon which the beams are

The details for slab placement bracing are considered minimum for fulfilling the requirements of Specification Item 420, Article 420 9 (4)

Required slab placement bracing shall remain in place until the slab

Bracing details for closely spaced beams (as on ramps, or railroad

Systems equal to or better than those shown may be used provided details of such systems are submitted to and approved by the Engineer

Use of these systems and/or details does not relieve the Contractor of the responsibility for the adequacy of the bracing and the safety of

Removal of bracing for short periods of time to align beams is Bottom flange bracing at beam ends may be omitted when all beams are fixed with dowel bars or when erection is on steel caps or floor beams

All turn-buckles, come-alongs and other connections shall be capable

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structures) are not included herein. The Contractor shall submit his proposed

bracing details for such conditions to the Engineer for approval prior to

being erected and the traveled way, or 30 feet, whichever is greater. Required erection bracing sholl be placed immediately after erection of each beam and remain in place until channel diaphragms, are tightened and

additional bracing as required for slab placement is in place

concrete has attained a flexural strength of 500 ps.i.

containing begring seats which restrict lateral movement.

of developing the full strength of the cable shown hereon.

ERECTION BRACING

DALLAS NORTH TOLLWAY

PRESTRESSED CONCRETE BEAMS MINIMUM ERECTION AND BRACING REQUIREMENTS - TYPES C & IX BEAMS

HINTE SECTION VI \_\_\_\_\_THD \_\_\_\_\_12-80 THO MAY 12-80

STANDARD DRAWING NO 25