# LENGTH AT & OF BELT LINE	RO	RI
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DESIGNED BEAMS

BEAM

TYPE

NO.

SIZE STRGTH.

SE AM

LENGTH

SPAN

NUMBER

SPAN

LENGTH

103:5

BEAM

NO.

(DEPRESSED STRANDS)

END

PRESTRESSING STRANDS

Œ.

1-18 103'-1" II 54 1/4" 270 x 19 12 11 34 10 A-52 5420 6080

OPTIONAL DESIGN

DN. LOAD ON LOAD PROUMED COMP. TENBLE MINIMUM STRESS ULTMATE (TOP E) GROTT E) MOMENT CAPACITY

iot (pai)frab (pai) (Fl Kipa)

3395 3840 6360

CONCRETE

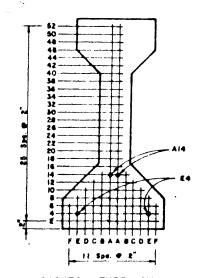
MELEASE MA DAY

STREMSTH COMP.

STRENGTH f'ci (pai) f'z (pai)

DEPRESSED

TO



AASHTO TYPE IV BM.

GENERAL NOTES

Designed in accordance with current AASH.TO. Specifications.

All concrete shall be Closs H

When shown on this sheet, the fabricator has the option of furnishing alther the designed depressed strand beam or an approved optional beam design. Low relaxation strands may be used

Prestressed losses for the designed beams have been calculated eccording to the A.A.S.H.T.O. 1982 Interim Specifications for a relative humidity of 65%. Optional designs shall likewise conform

Certain beems with depressed strands are subject to cracking in the end of the beam. When such cracks occur, all subsequent beams of the same-type and strond pattern shall have strands wrapped in the following manner:

1. Alternate rows of depressed strands shall be wrapped for 2 feet from each end of the beam.

2. One helf of the straight strands, as nearly as possible, shall be wrapped for 4 feet from each end of the beam.

3. The wrapping pattern shall be symmetrical about the vertical exis of the beam for both depressed and straight strands.

4. Strands shall be wrapped so that the centers of gravity of the depressed strands and the straight strands will remain within 1, inch of their original location.

5. Strands shall be lightly wrapped with a waterproof edhesive tape or plastic tubing may be used provided both ands and the soom of the tube are sealed with a waterproof tape.

6. Revised shap drewings will not be required, but wrapping politerns, and the beams affected, shall appear on the se-built

For depressed etrend designed beams, strands shall be located as lew as possible on the 2" grid system shown hereon unless a non-standard strand pattern is indicated. Fill Row."2", then Row."4", then Row."6", etc., beginning each row in the "A" position and working outward until the required number of strands is reached. All strands in the "A" position shall be depressed, maintenising the 2" specing so that the upper two strands are in the position shown in the table at the beam ends.

mitiel pretension for 1/2" 270 K stronds = 28.9 K for regular stress relieved strend or 310 K for low retaxation strands. .

Horizontal distances are shown for SPAN LENGTH and BEAM LENGTH. They must be corrected for grade or cross slope, where appropriate.

