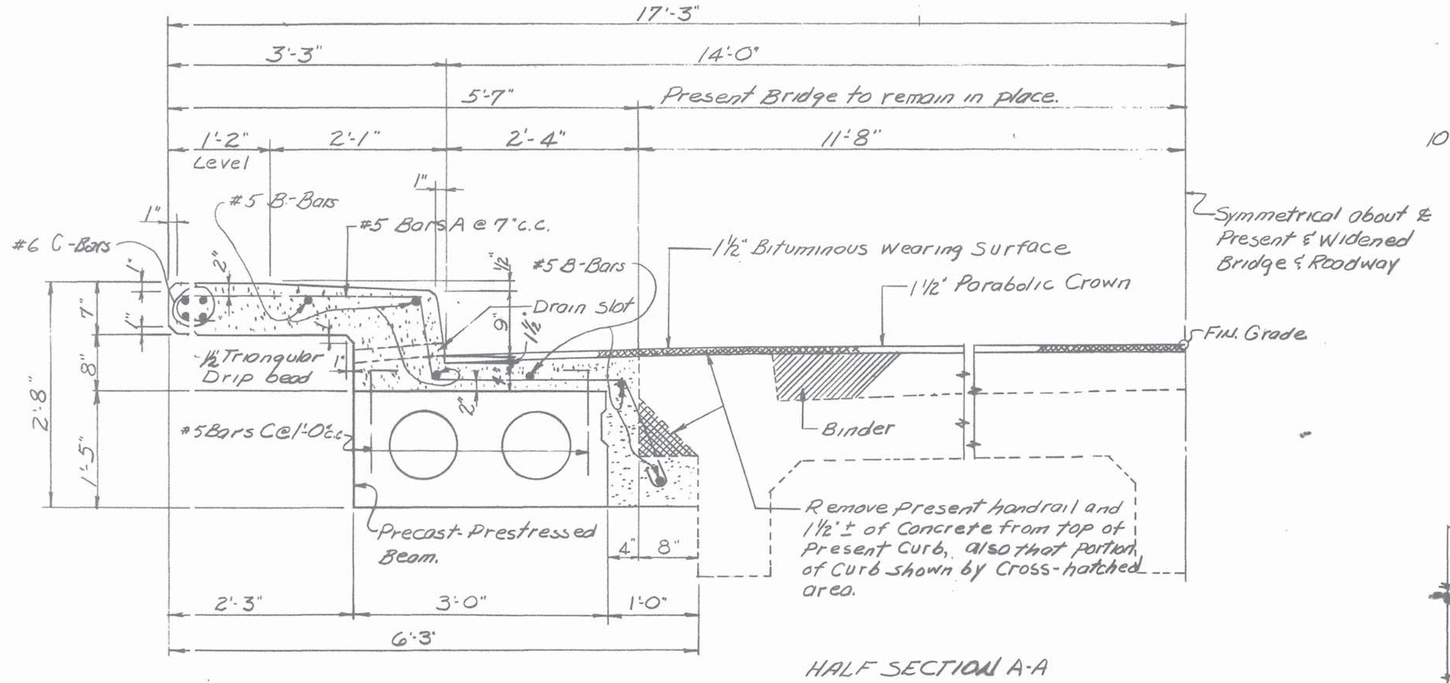
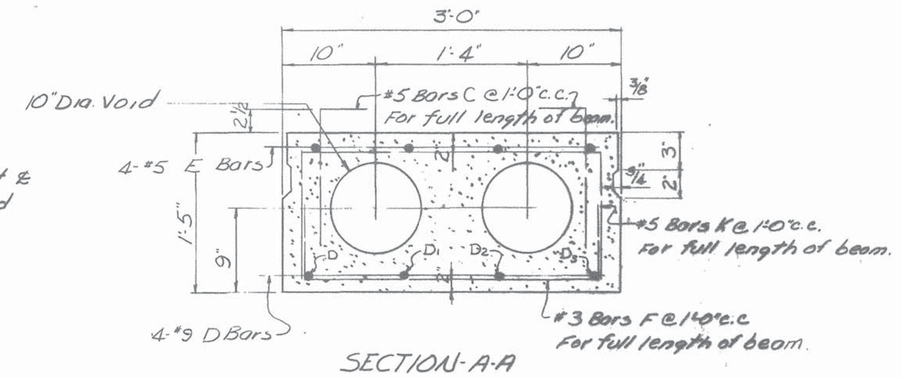
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.		19		

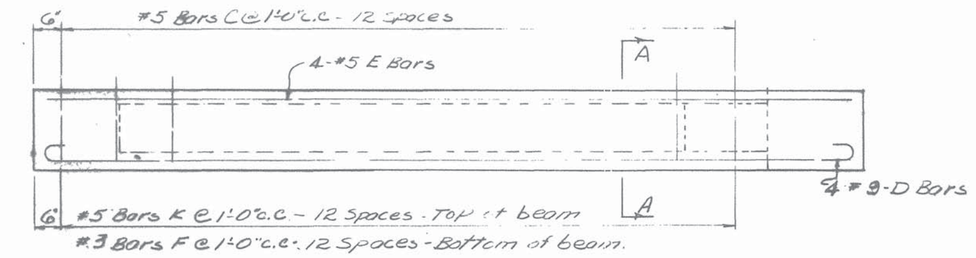


HALF SECTION A-A

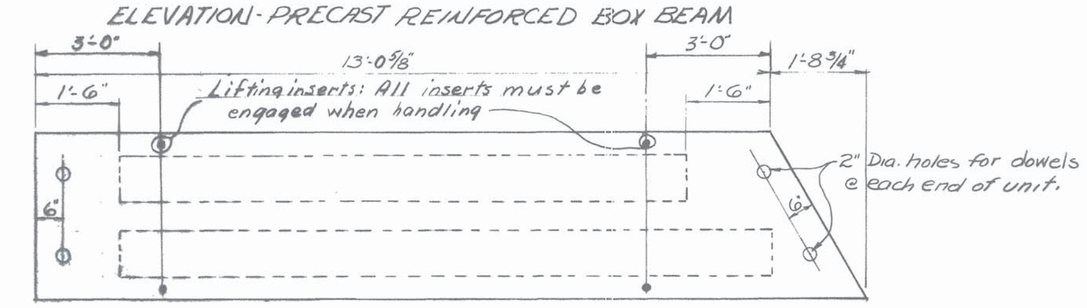
Note: Place a 1" Bituminous fiber Joint between Spans.



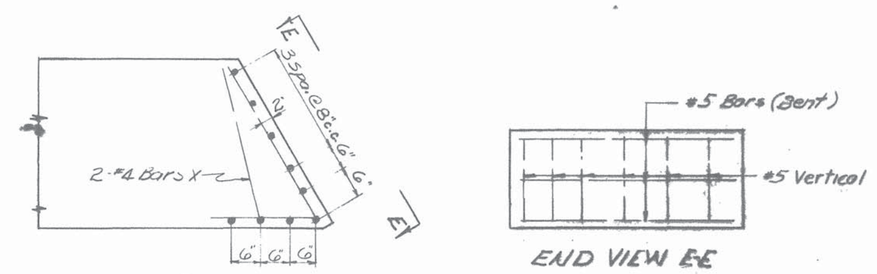
SECTION-A-A



ELEVATION - PRECAST REINFORCED BOX BEAM



PLAN - PRECAST REINFORCED BOX BEAM



PLAN

END VIEW E-E

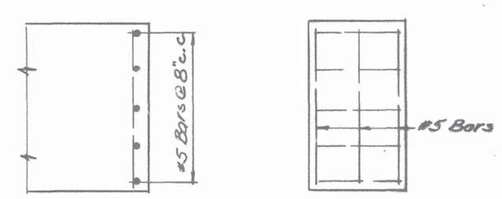
END REINFORCEMENT
To be placed in acute corners of all precast Box Beams.

Locate drain slots @ Center of every other railing panel.

DRAIN SLOT DETAIL

BARS C

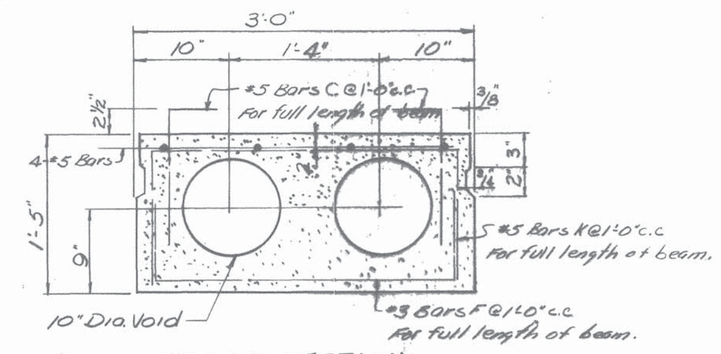
BARS F & K



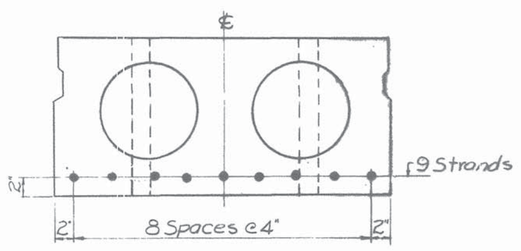
PLAN

END VIEW

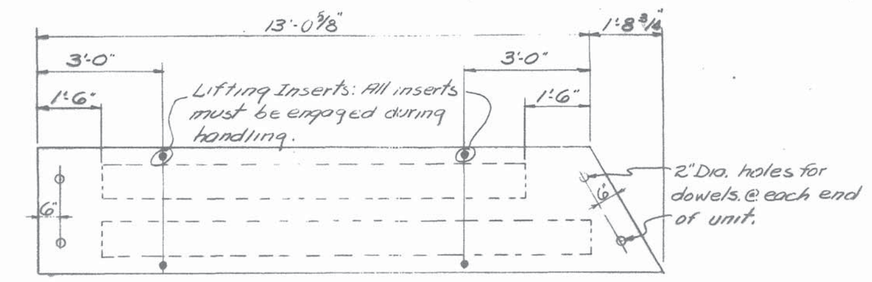
END REINFORCEMENT
To be placed of 90° skewed end of all precast Box Beams.



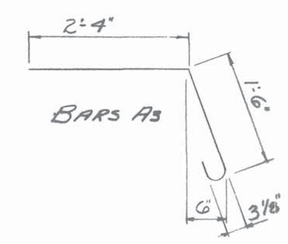
TYPICAL SECTION
Showing Reinforcement for Precast prestressed Box Beam.



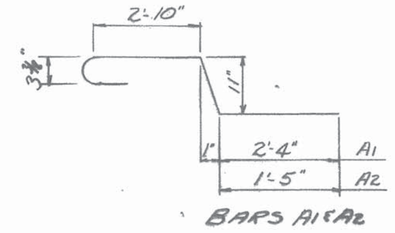
TYPICAL SECTION
Showing strand pattern for full length of beam.



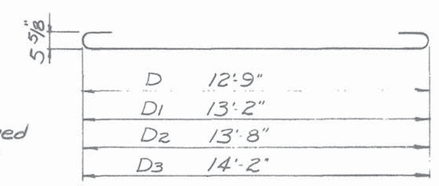
PLAN - PRECAST PRESTRESSED BOX BEAM
(Span No. 6 Lt & 12 Rt)



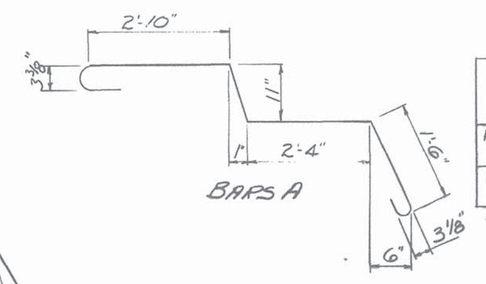
BARS A3



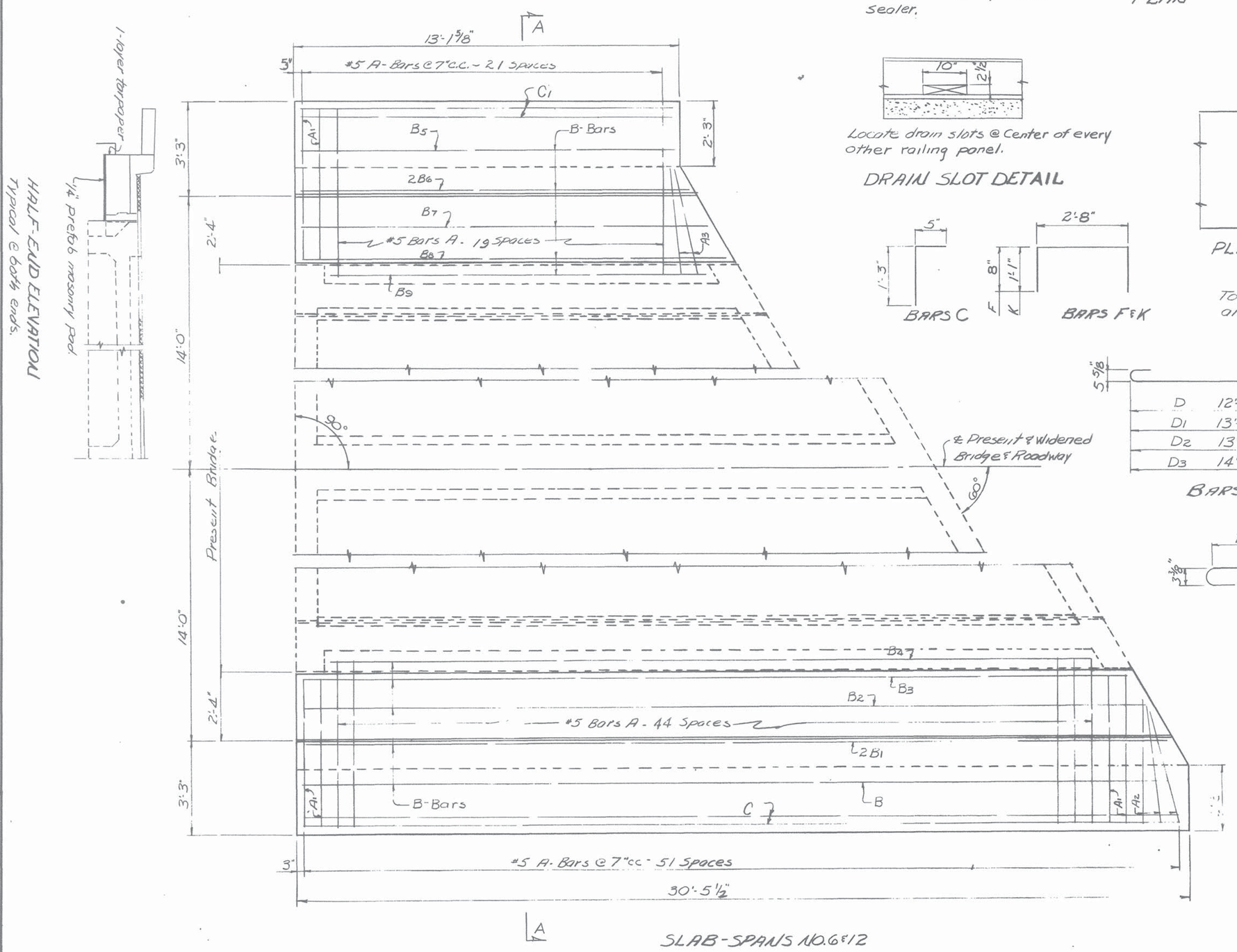
BARS A1 & A2



BARS D-D3



BARS A



SLAB - SPANS NO. 6 & 12

HALF END ELEVATION
Typical @ both ends.

ESTIMATED QUANTITIES
For One Precast Box Beam

ITEM	Prestressing Steel Weight* Lbs.	No. 3/8" Strands	Weight Basic Member	Class "A" Concrete Cu. Yds.	Reinf. Steel Lbs.
Precast-Prestressed Box Beam	34	9	7,184	1.8	226
Precast-Reinf. Box Beam	——	——	7,184	1.8	420

BILL OF STEEL
Spans No. 6 & 12 (Each)

Bar	No.	Size	Length
A	65	#5	9'-0"
A1	6	"	7'-0"
A2	3	"	6'-1"
A3	2	#5	4'-4"
B	1	#5	29'-11"
B1	2	"	29'-6"
B2	1	"	28'-10"
B3	1	"	28'-3"
B4	1	"	26'-2"
B5	1	"	12'-7
B6	2	"	13'-3"
B7	1	"	14'-0"
B8	1	"	14'-6"
B9	1	#5	13'-0"

BILL OF STEEL
(Cont.)

Bar	No	Size	Length
C	4	6	29'-11"
C1	4	6	12'-7

ESTIMATED QUANTITIES

ITEM	Concrete Class "A" Cu. Yds. *	Reinforcing Steel Lbs.
SPAN No. 6	7.4	917
SPAN No. 12	7.4	917

* Cast-in-Place

GENERAL NOTES
1. All prestressing strands to be 3/8" ø, 7 wire, uncoated, stress relieved prestressing strands.
2. An initial force of 14,000 lbs. shall be applied to each strand in all beams.
3. Top of box to be rough floated, at approximately the time of initial set, the top of the box shall be scrubbed transversely with a coarse wire brush to remove all laitance and to produce a rough surface.

SPECIAL NOTE - FABRICATOR
The fabricator shall have the option of using a precast-prestressed box beam or a precast-reinforced box beam for Span No. 6 left and Span No. 12 right, details shown this sheet.

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
NASHVILLE

DETAILS OF BRIDGE WIDENING
SPANS NO. 6 & 12
SLAB AND PRECAST BOX BEAM DETAILS
STA. 1193+87.9
SHELBY COUNTY
1964

DESIGNED BY _____ DATE _____
DRAWN BY L. Bingham DATE 3-16-64
TRACED BY _____ DATE _____
CHECKED BY _____ DATE _____

CORRECT Fred Gene BRIDGE ENGINEER
APPROVED W. R. Dunlap STATE HIGHWAY ENGINEER

K-43-33

PRINTED 8, P.R. 3-24-65