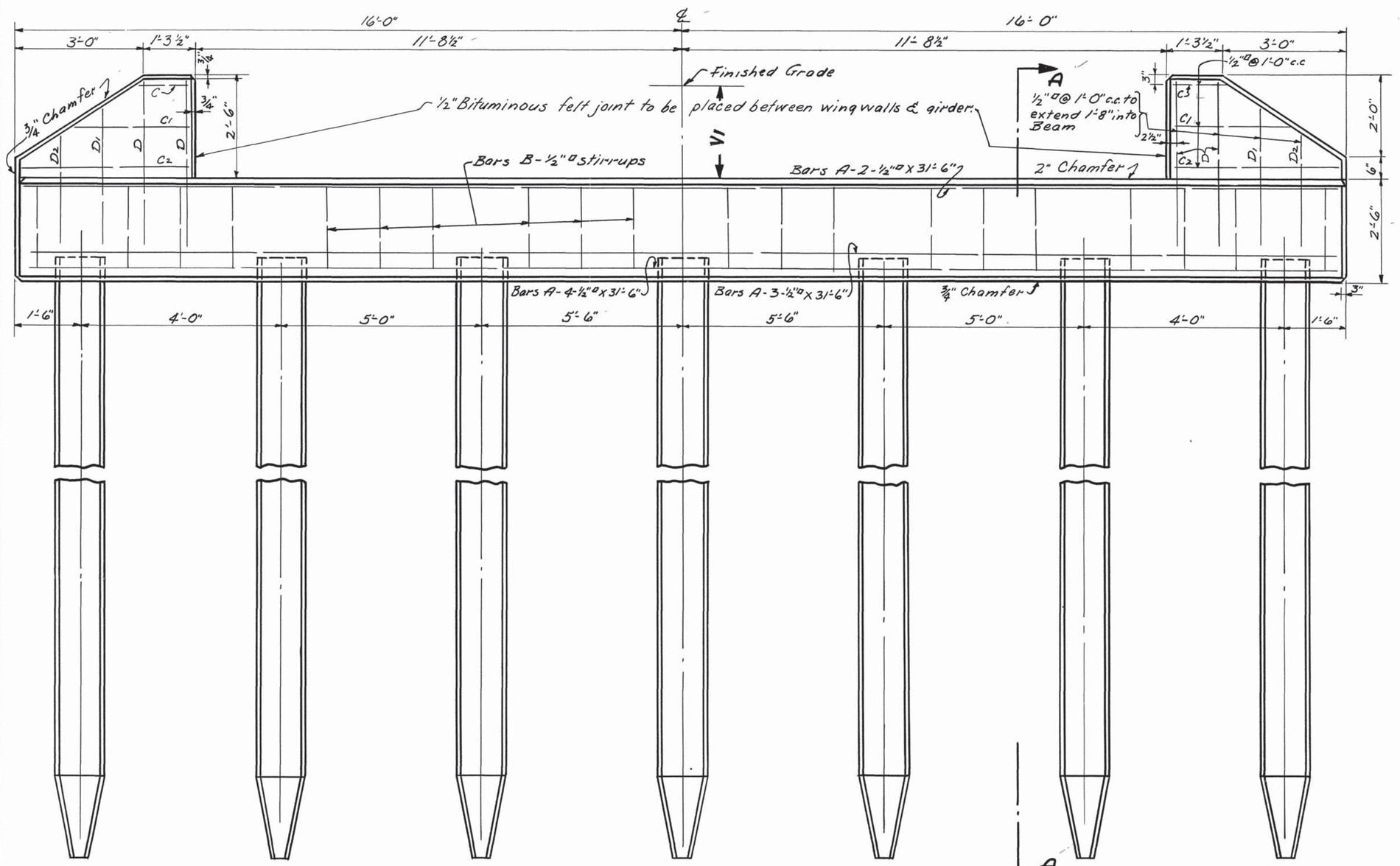
FED ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
3	TENN		19		

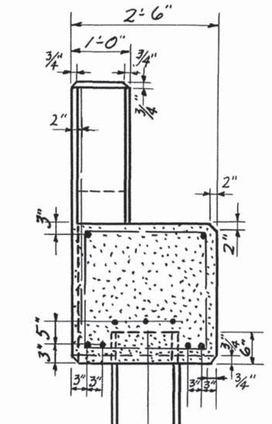
TABLE FOR V1

SPAN	V1
18'-0"	2'-2½"
20'-0"	2'-3½"
22'-0"	2'-4½"
24'-0"	2'-5½"
26'-0"	2'-6½"

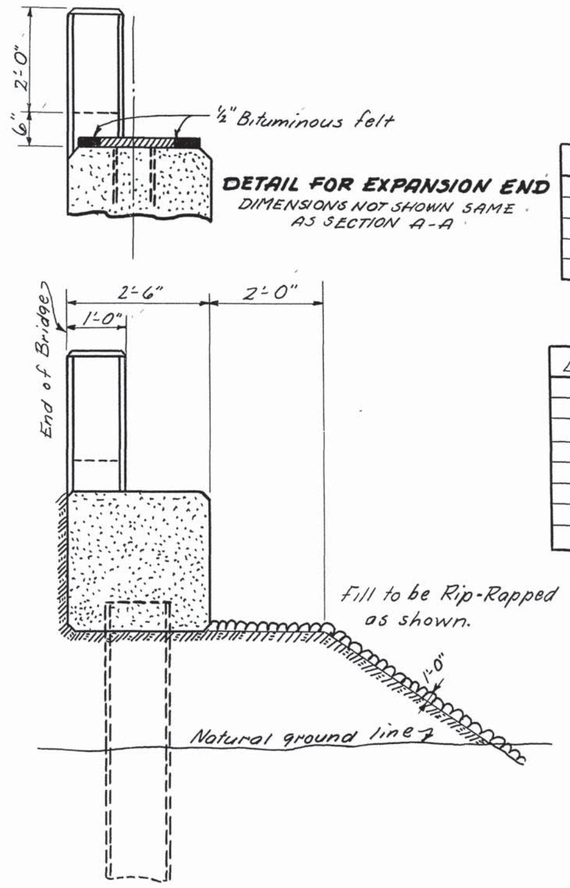
Special Note:
For location of Expansion Plates see "Layout Sheet" for the Bridge in question.



FRONT ELEVATION



SECTION A-A



DETAIL FOR EXPANSION END
DIMENSIONS NOT SHOWN SAME AS SECTION A-A

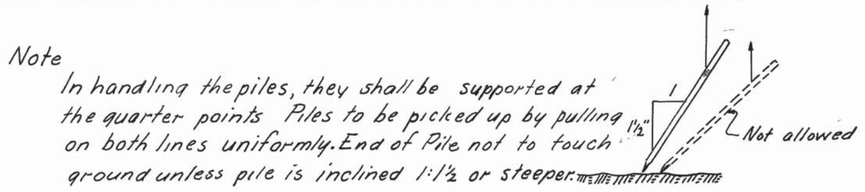
TYPE "A" PILES

Length of Pile	Long Reinforcement	Wt of Steel per ft	Wt of Pile per ft
up to 35'	4 - ¾" Φ Bars	7.34 Lbs.	204 Lbs.
35' to 40'	4 - ⅞" Φ Bars	9.52 Lbs.	207 Lbs
40 to 45'	4 - 1" Φ Bars	12.02 Lbs.	210 Lbs.
45' to 50'	4 - 1"□ Bars	14.94 Lbs.	213 Lbs

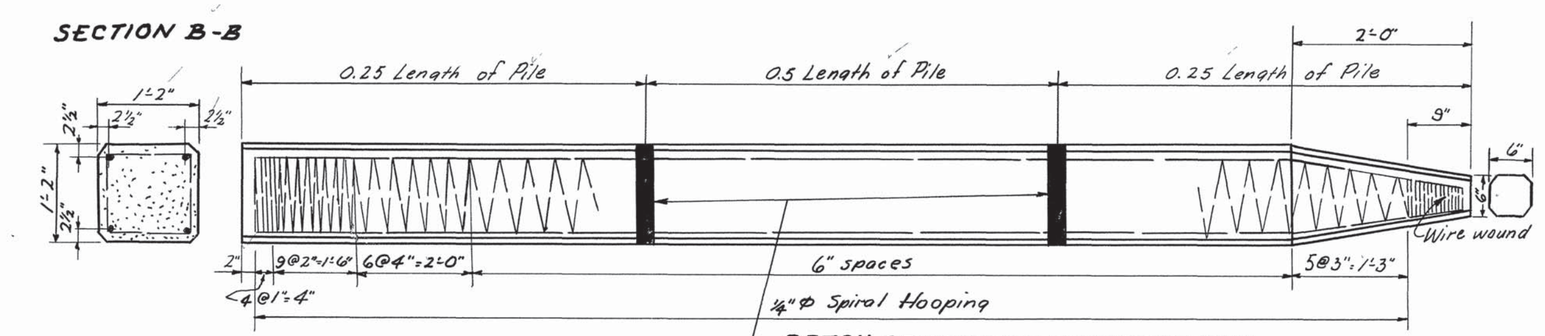
TYPE "B" PILES

Length of Pile	Long Reinforcement	Wt. of Steel per ft	Wt of Pile - per ft.
20' to 25'	8 - ½" Φ Bars	5.3 Lbs.	225 Lbs.
26' to 30'	8 - ½"□ Bars	6.8 Lbs.	227 Lbs
31' to 35'	8 - ⅝" Φ Bars	8.4 Lbs.	228 Lbs
36' to 40'	8 - ¾" Φ Bars	12.0 Lbs.	231 Lbs
41' to 45'	8 - ⅞" Φ Bars	16.4 Lbs.	236 Lbs
46' to 50'	8 - ⅞" Φ Bars	16.4 Lbs.	236 Lbs
51' to 55'	8 - 1" Φ Bars	21.4 Lbs	241 Lbs.
56' to 60'	8 - 1"□ Bars	27.2 Lbs	247 Lbs.

Note
In handling the piles, they shall be supported at the quarter points. Piles to be picked up by pulling on both lines uniformly. End of Pile not to touch ground unless pile is inclined 1:1½ or steeper.

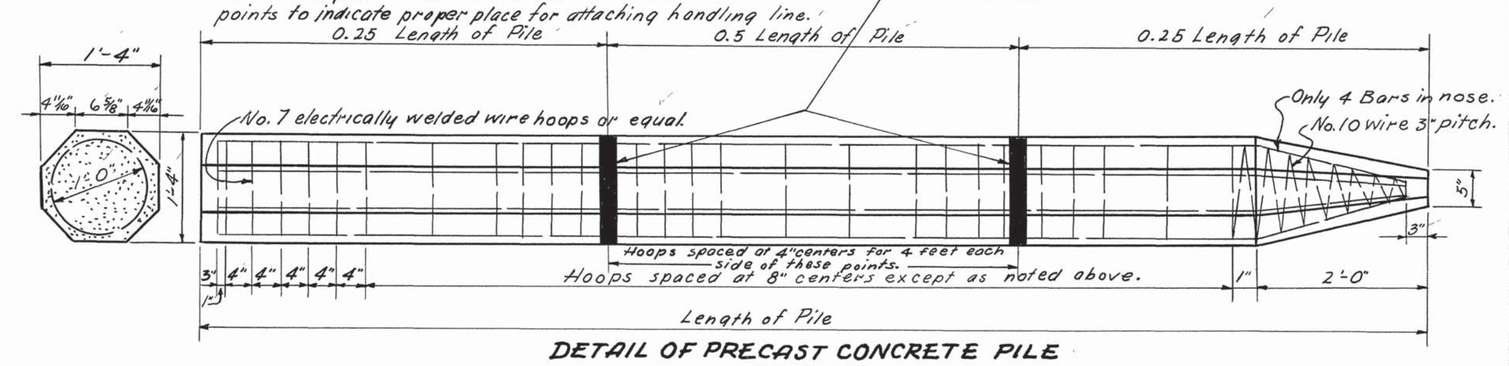


SECTION B-B

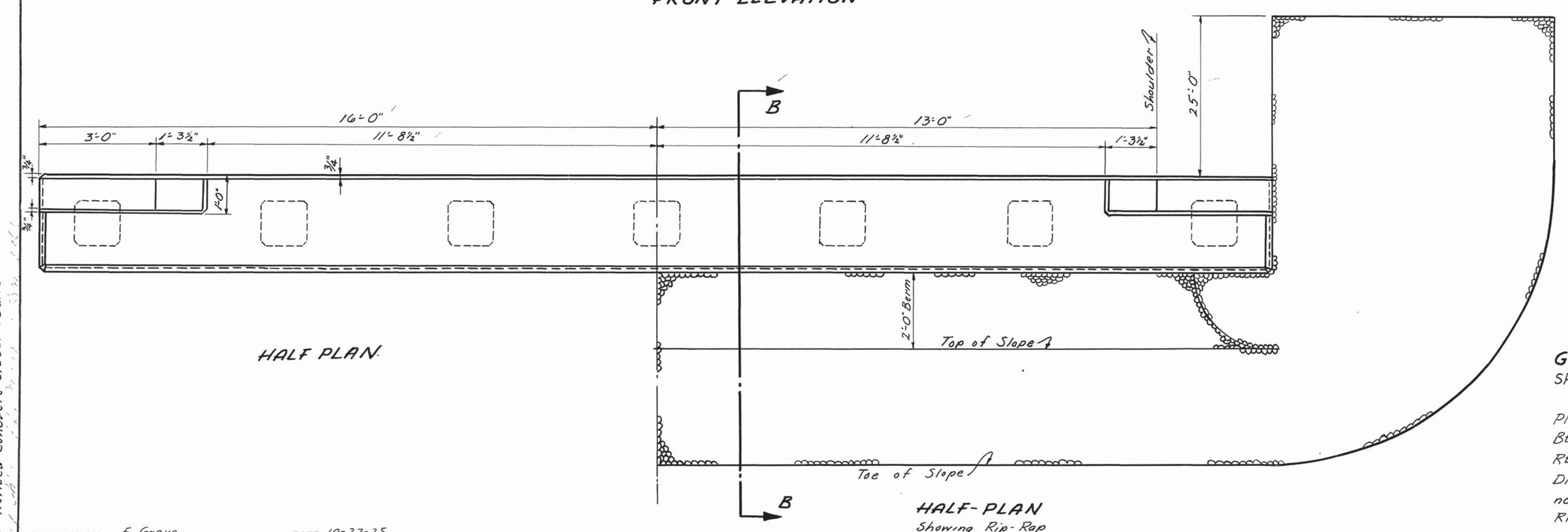


DETAIL OF PRECAST CONCRETE PILE TYPE "A"

Piles to be painted with black band at these points to indicate proper place for attaching handling line.



DETAIL OF PRECAST CONCRETE PILE TYPE "B"



HALF PLAN

HALF-PLAN
Showing Rip-Rap

BILL of STEEL
CAP & WINGWALLS
All Bars ½"Φ

Bar	No	Length
A	9	31'-6"
B	20	9'-3"
C	2	1'-3"
C1	2	2'-9"
C2	2	4'-0"
D	4	4'-0"
D1	2	3'-6"
D2	2	2'-9"

ESTIMATED QUANTITIES
CAP AND WINGWALLS.

Concrete Class "A" 7.77 cu. yds.
Reinforcing Steel 436 lbs.

GENERAL NOTES:

SPECIFICATIONS: Standard Road & Bridge Specifications of the Tennessee Department of Highways.
PILING: To be Class "S" concrete, with Class "A" aggregate.
BEAMS and WINGWALLS: To be Class "A" concrete, with Class "A" aggregate.
REINFORCING STEEL: See Specifications.
Distance from bottom of cap to natural ground shall not exceed 15'-0".
RIP-RAP: See Specifications.
FORMS: See Specifications.
FINISH: See Specifications.

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS
NASHVILLE

STANDARD
CONCRETE ABUTMENT
PILE BENT TYPE

ROADWAY: 20'-0" SPAN: 26'-0" OR LESS
1925

CORRECT _____ BRIDGE ENGINEER
APPROVED _____ STATE HIGHWAY ENGINEER

D-4-100

DESIGNED BY	F. Greve	DATE	10-27-25
DRAWN BY	F. Greve	DATE	10-27-25
TRACED BY	A. Kelley	DATE	12-22-65
CHECKED BY		DATE	

5 Spaces in Bent Changed to 4 Spaces 12-15-27
Rev. for 1927 Revised Concrete Classification 1-11-27

MICROFILMED