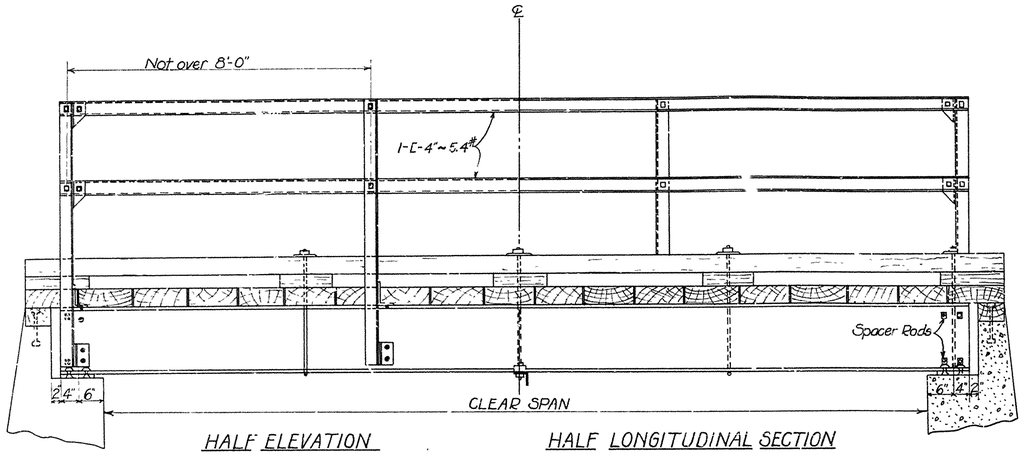
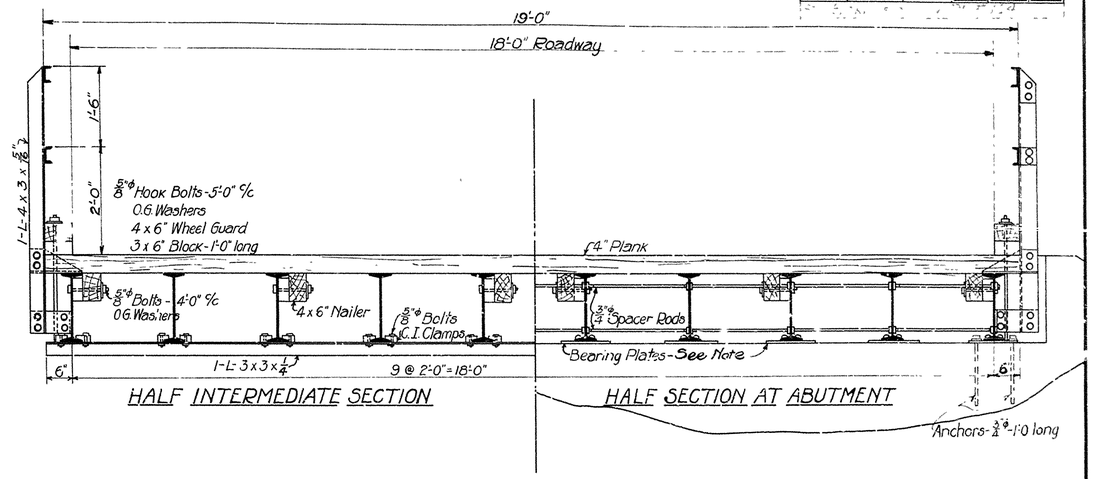
FED. AID PROJ. NO.	STATE	FED. ROAD DIST. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
	ARK.	6			

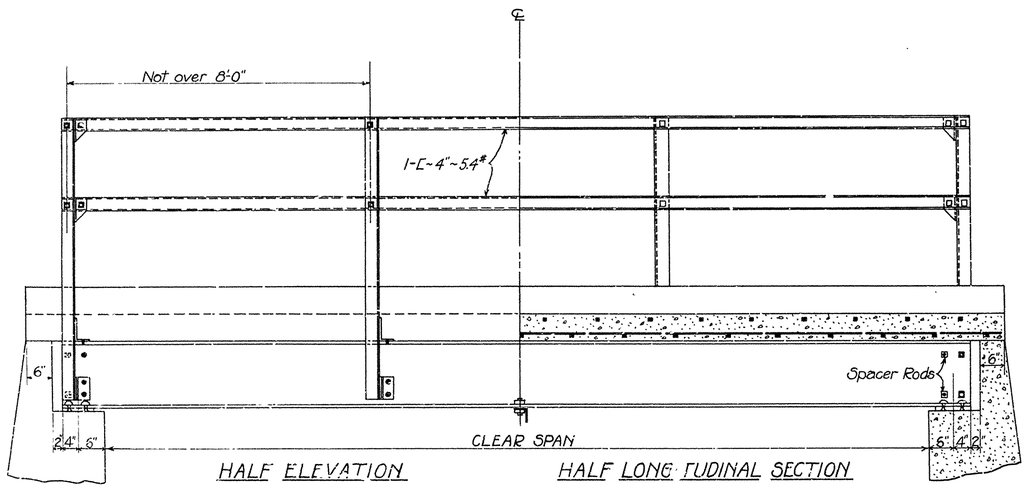


HALF ELEVATION — HALF LONGITUDINAL SECTION

BEAM SPAN—WOOD FLOOR

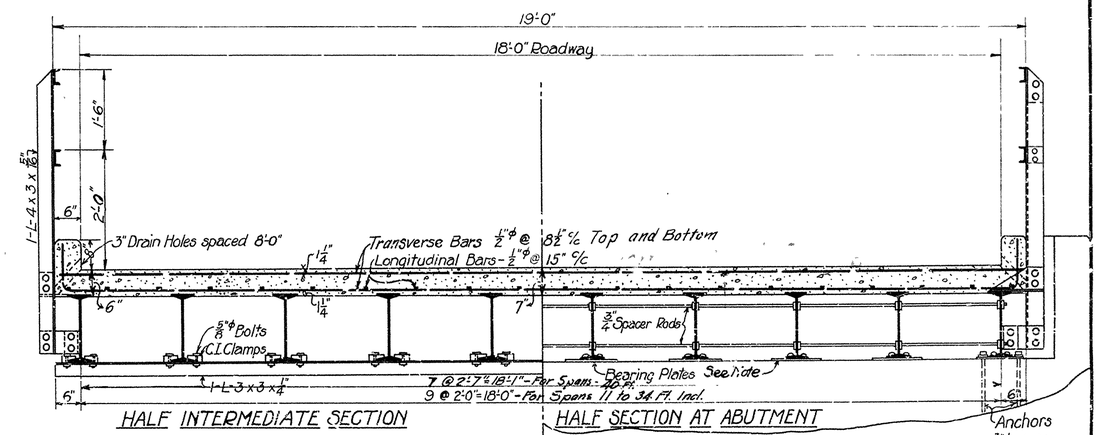


HALF INTERMEDIATE SECTION — HALF SECTION AT ABUTMENT



HALF ELEVATION — HALF LONGITUDINAL SECTION

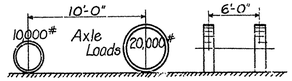
BEAM SPAN—CONCRETE FLOOR



HALF INTERMEDIATE SECTION — HALF SECTION AT ABUTMENT

SPECIFICATIONS

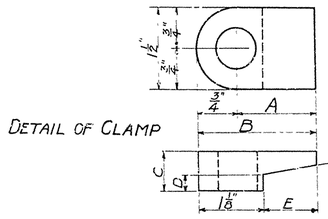
Live Load: Uniform:- 80 lbs. per sq. ft. of roadway
Concentrated:- Two-15-Ton Trucks as shown below.



impact:- 30% of live load.
Unit Stresses:- See Arkansas Highway Dept. Specifications.
Distribution of concentrated load- For Wood Floor, Spacing of joists in inches divided by 42 - For Concrete Floor, Spacing of joists in inches divided by 54
Concrete Proportions:- 1:2:4. If wear comes directly on floor slab increase thickness of slab 1" and use concrete proportions:- 1-2-3.
All field connections riveted. when other structural work requires field riveting, otherwise bolted.

BEARING PLATES
Spans up to 16' - 8"x1/2"x12"
" 17' " 20' - 8"x3/4"x14"
" 21' " 30' - 8"x1"x14"
" 31' and up - 8"x1"x16"

DESCRIPTION	STA. TO STA.



SIZE OF BEAM	DIMENSIONS OF CLAMP A	B	C	D	E
8"	1 1/4"	2"	3/4"	1/4"	3/8"
9" & 10"	1 1/2"	2 1/4"	3/4"	5/16"	1 1/8"
12"	1 1/2"	2 1/4"	7/8"	3/8"	1 1/8"
15"	1 1/2"	2 1/4"	7/8"	11/32"	1 1/8"

CLEAR SPAN	SIZE OF 10 I-BEAMS WOOD FLOOR	CONC. FLOOR	CLEAR SPAN	SIZE OF 10 I-BEAMS WOOD FLOOR	CONC. FLOOR
11'	9"-21.8#	9"-21.8#	23'	15"-42.9#	15"-42.9#
12'	9"-21.8#	9"-21.8#	24'	15"-42.9#	15"-42.9#
13'	10"-25.4#	9"-21.8#	25'	15"-42.9#	15"-42.9#
14'	10"-25.4#	10"-25.4#	26'	15"-42.9#	15"-42.9#
15'	10"-25.4#	10"-25.4#	27'	15"-42.9#	15"-42.9#
16'	12"-31.8#	10"-25.4#	28'	15"-42.9#	15"-42.9#
17'	12"-31.8#	12"-31.8#	29'	15"-42.9#	15"-42.9#
18'	12"-31.8#	12"-31.8#	30'	15"-42.9#	15"-42.9#
19'	12"-31.8#	12"-31.8#	31'	15"-50.0#	15"-50.0#
20'	12"-31.8#	12"-31.8#	32'	15"-50.0#	15"-50.0#
21'	12"-31.8#	12"-31.8#	33'	18"-54.7#	18"-54.7#
22'	15"-42.9#	15"-42.9#	34'	18"-54.7#	18"-54.7#

CLEAR SPAN	SIZE OF 8 I BEAMS WOOD FLOOR	CONC. FLOOR
40'	20"-65.4#	20"-65.4#

REMARKS

DESIGNED	N.B.G.
TRACED	E.H.E.
CHECKED	
REVISIONS	

STANDARD PLAN
STEEL BEAM BRIDGES - 18' ROADWAY
ARKANSAS HIGHWAY DEPARTMENT
LITTLE ROCK, ARK.

Approved _____
Commissioner State Lands, Highways & Improvements.

By:- _____
State Highway Engineer
Dec. 1922.

STATE STANDARD NO. F-499-A

OLD No. F-499-A