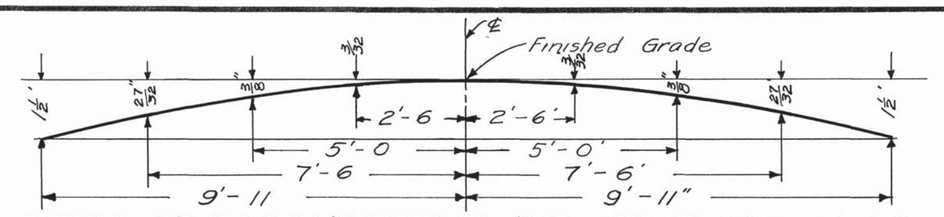
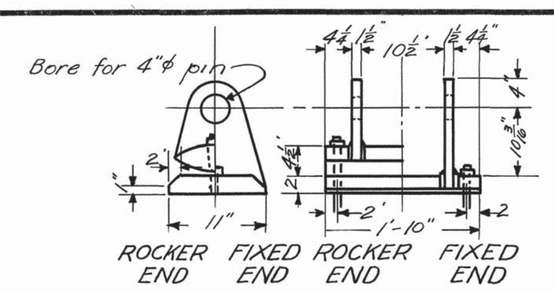
FE ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
8	TENN		19		

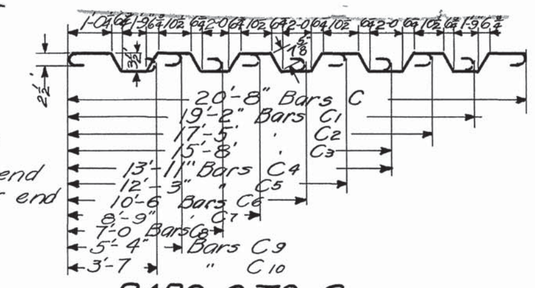


DETAIL OF ROADWAY TEMPLATE FOR FLOOR SLAB

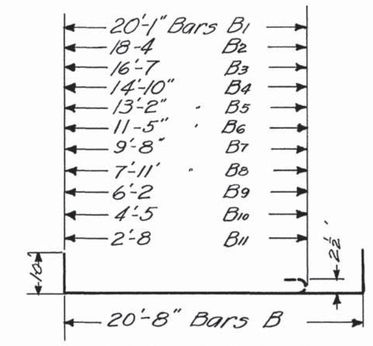


CAST STEEL PEDESTALS

Anchor Bolts
4-1¼" ϕ x 1'-4" Fixed end
4-1¼" ϕ x 1'-8½ Rocker end



BARS C TO C10

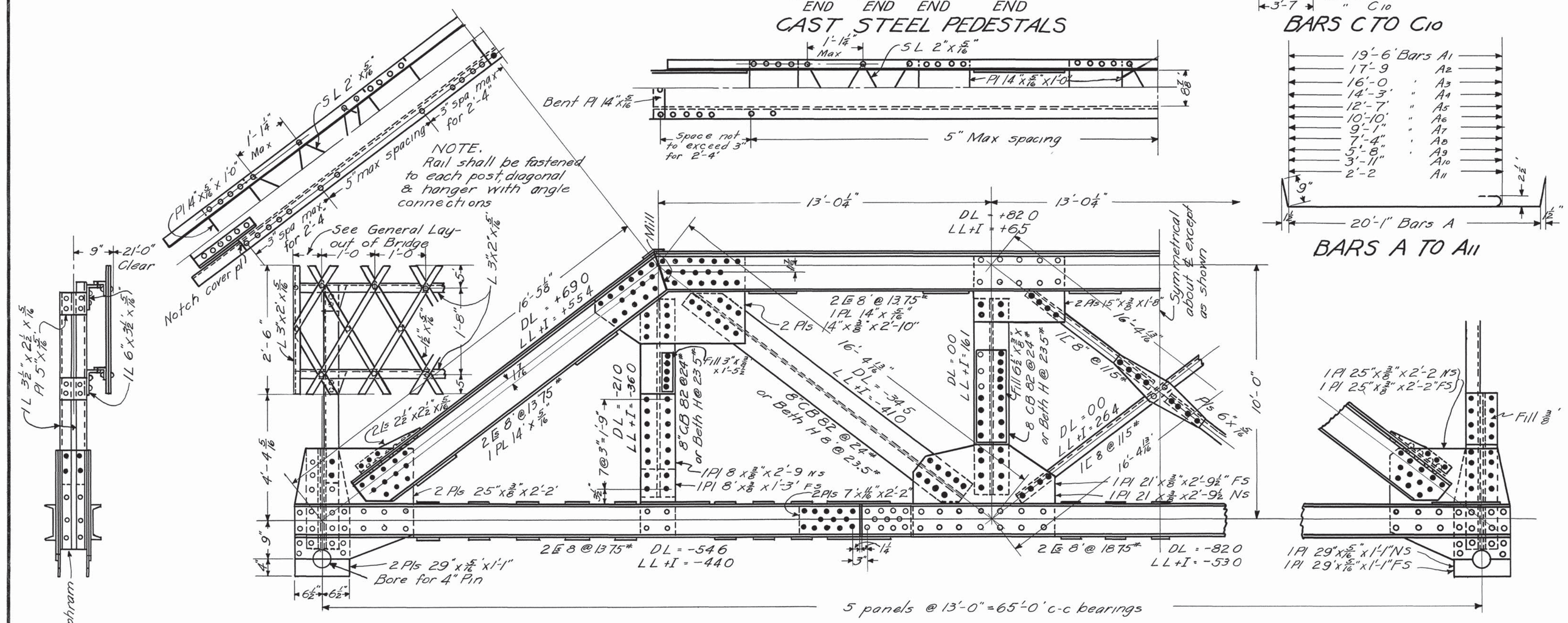


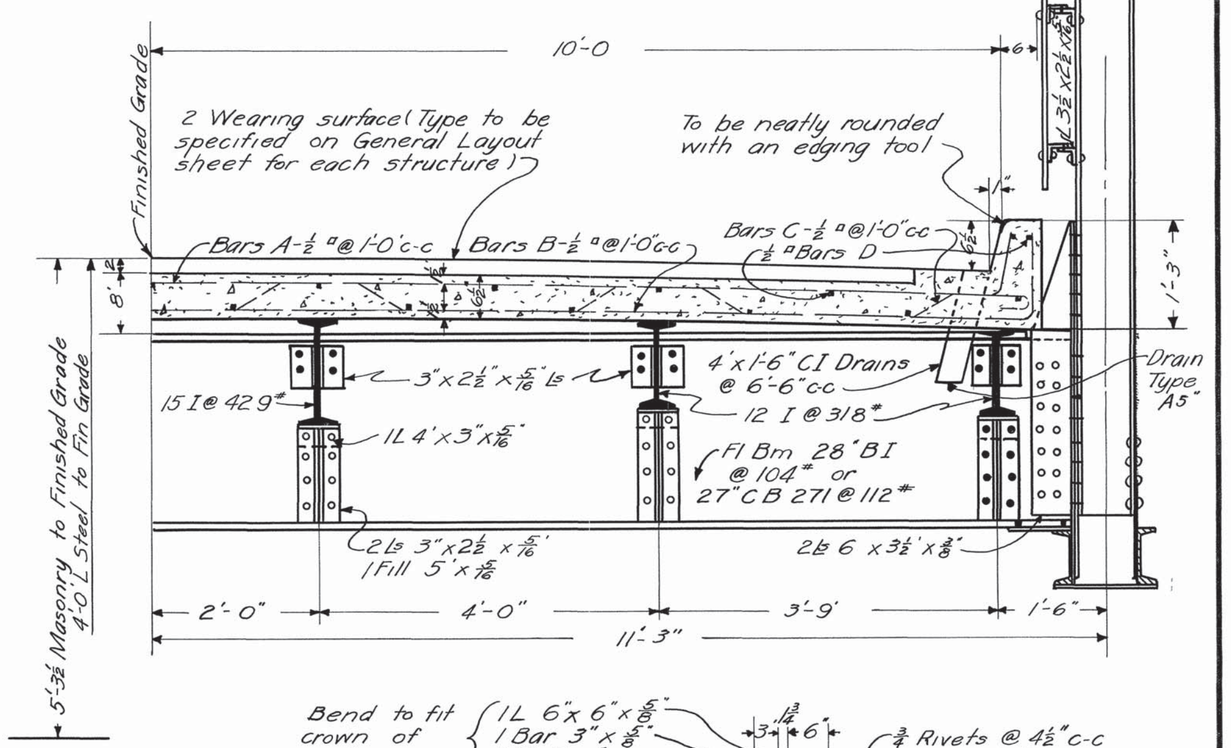
BARS B TO B11

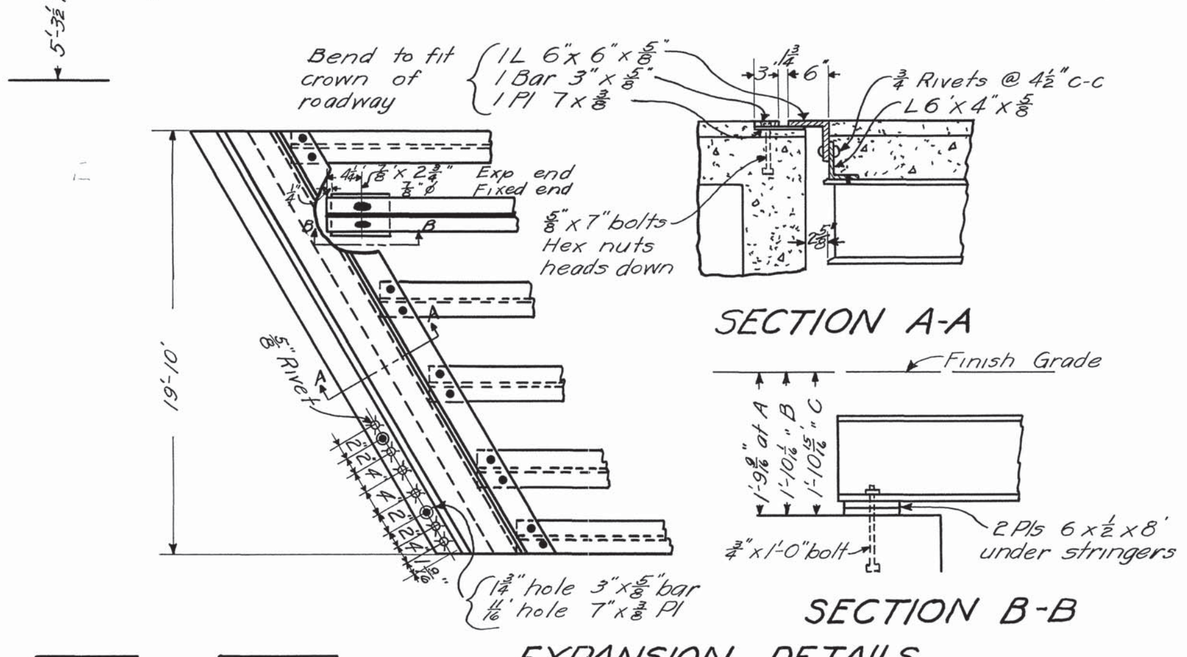
BARS A TO A11

BILL OF REINFORCING STEEL

BAR	SIZE	NO	LENGTH	BAR	SIZE	NO	LENGTH
A	⅝"□	50	21'-7"	B6	½"□	2	12'-10
A1	"	2	20'-8"	B7	"	2	11'-1"
A2	"	2	18'-11"	B8	"	2	9'-4"
A3	"	2	17'-2"	B9	"	2	7'-7
A4	"	2	15'-5"	B10	"	2	5'-10"
A5	"	2	13'-9"	B11	"	2	4'-1"
A6	"	2	12'-0"	C		50	22'-3
A7	"	2	10'-3"	C1		2	20'-8
A8	"	2	8'-6"	C2	"	2	18'-11"
A9	"	2	6'-10"	C3	"	2	17'-1"
A10	"	2	5'-1"	C4		2	15'-3"
A11	"	2	3'-4"	C5		2	13'-6"
H	"	30	22'-8	C6	"	2	11'-9
B1	"	2	21'-6"	C7	"	2	10'-0"
B2	"	2	19'-9"	C8		2	8'-1
B3		2	18'-0	C9		2	6'-4"
B4	"	2	16'-3"	C10		2	4'-6
B5	"	2	14'-7"	D	"	75	23'-9"



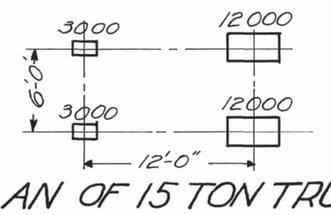




SECTION A-A

SECTION B-B

EXPANSION DETAILS



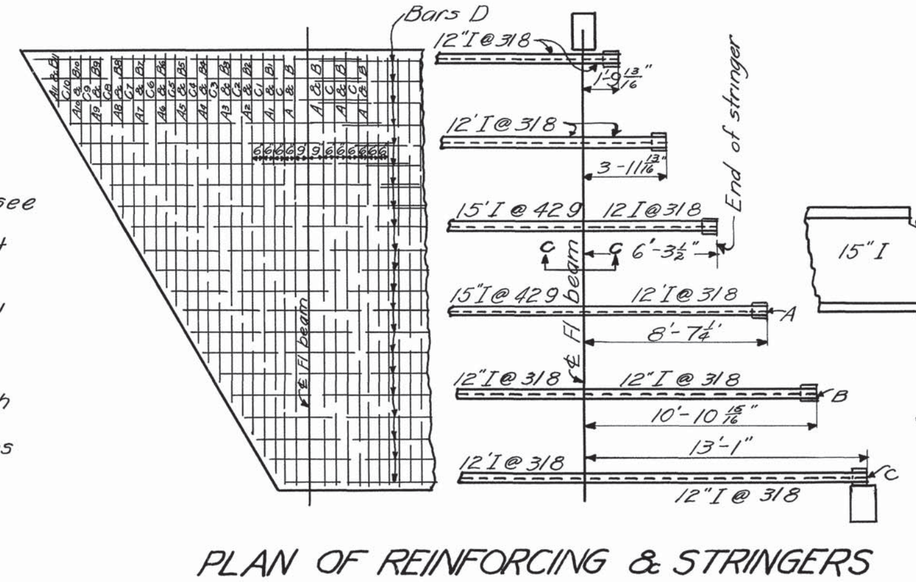
PLAN OF 15 TON TRUCK

Dead Load - 1600# per foot of truss
Live Load - 80# per sq ft of roadway or 2-15 ton trucks in line @ 25'-0" c-c, or abreast @ 9'-0" c-c
Impact - 30% added to all live loads

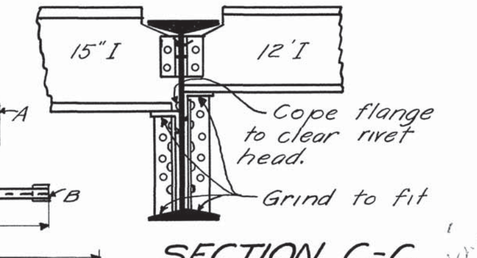
NOTE
Contractor may submit for approval details or sections of equivalent strength to those given.
Minimum weight designs either given or submitted and approved shall be used in computing theoretical weight.
Excess weight due to use of heavier sections than minimum shall be deducted from scale weight to determine weight to be paid for.

SPECIAL NOTE
Holes for floor beam connections shall be subpunched ⅜" & reamed with twist drills to 13/16" through a steel template not less than 1" thick

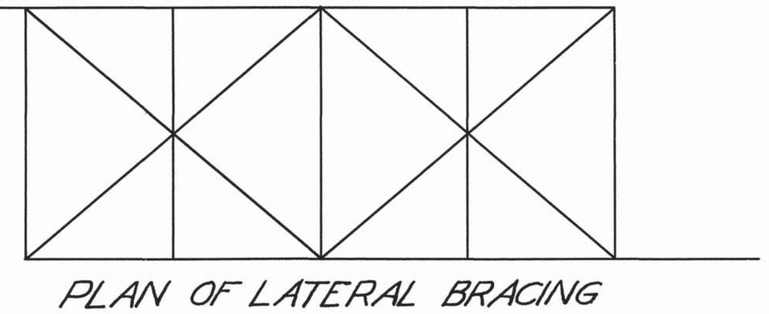
GENERAL NOTES
Specifications Standard Road and Bridge Specifications of the Tennessee Department of Highways
Rivets ¾" diameter except for expansion details where otherwise specified
Open holes 13/16" diameter except for expansion detail which see
Shop Paint See Specifications, paragraph 30 111
Field Paint: See Specifications, paragraph 30 124 final tint to be light gray
Concrete in floor to be Class "A"
Reinforcing Steel to be deformed bars of structural steel or intermediate grade made by the O H process
Forms See Specifications
Finish: See Specifications
Surfacing is specified on General Layout sheet for each structure
Approval of Drawings. See paragraph 162 of Specifications



PLAN OF REINFORCING & STRINGERS



SECTION C-C



PLAN OF LATERAL BRACING

ESTIMATED QUANTITIES

Structural steel	50520 Lbs
Cast "	1360 Lbs
Reinforcing "	5019 Lbs
Concrete Class "A"	310 Cu Yds Add 750 Cu Yds when wearing surface is to be of concrete

Cost of C I Drains in place shall be included in price per cu yd of class A concrete
Expansion device (not included in structural steel above) 1390 Lbs

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS
NASHVILLE

STANDARD RIVETED

LOW TRUSS BRIDGE

CONCRETE FLOOR
65'-0" SPAN SKEW 60° RIGHT 20'-0" ROADWAY
1925

Selected for use in Standard Drawings D-4-86

CORRECT L. H. Erickson BRIDGE ENGINEER
APPROVED C. A. Bass STATE HIGHWAY ENGINEER

D-4-86

DESIGNED BY	A.R. Jessup	DATE	11-3-25
DRAWN BY	ART	DATE	11-3-25
RETRACED BY	C.M. Thomas	DATE	10-18-39
CHECKED BY	J.L. Albers	DATE	Nov. 1925

Revised weights of Structural Steel 2-24-30
Web members & Floor beams revised 6-27-28

MICROFILMED