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SOUTH CAROLINA
STATE HIGHWAY DEPARTMENT
COLUMBIA

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

F.A.P.# S-423(4), RD. S-13, FROM RT. 327 TO RD. S-24
F.A.P.# S-600(2), RD. S-24, FROM RD. S-13 TO OLD RT. 301
DKT. No. 21.458

FLORENCE COUNTY

SCALE: PLAN AND PROFILE 1"=100 FEET HORIZONTAL 1"=10 FEET VERTICAL

F.A.P.# S-423(4), DKT. 21.458, RD. S-13
STA. 0+10 TO STA. 2+48+98.9
(SEE SHEETS 6 THRU 14)

SUMMARY OF ESTIMATED QUANTITIES

EARTHWORK

	RD. S-13	RD. S-24	
Clearing and Grubbing within Roadway	Nec.	Nec.	
Clearing and Grubbing of Borrow and Material Pits	3.0	1.0	Acres
Unclassified Excavation	20,853	6,790	C.Y.
Overhaul	59,371	19,050	C.Y.H.M.
Selected Material for Shoulders	3,122	1,200	C.Y.

BASE COURSE

Earth Type Base Course (Dirt Material)	12,731	3,850	C.Y.
Scarifying, Mixing, Raking, Shaping and Reshaping	61,245	18,481	M.S.Y.

SURFACING

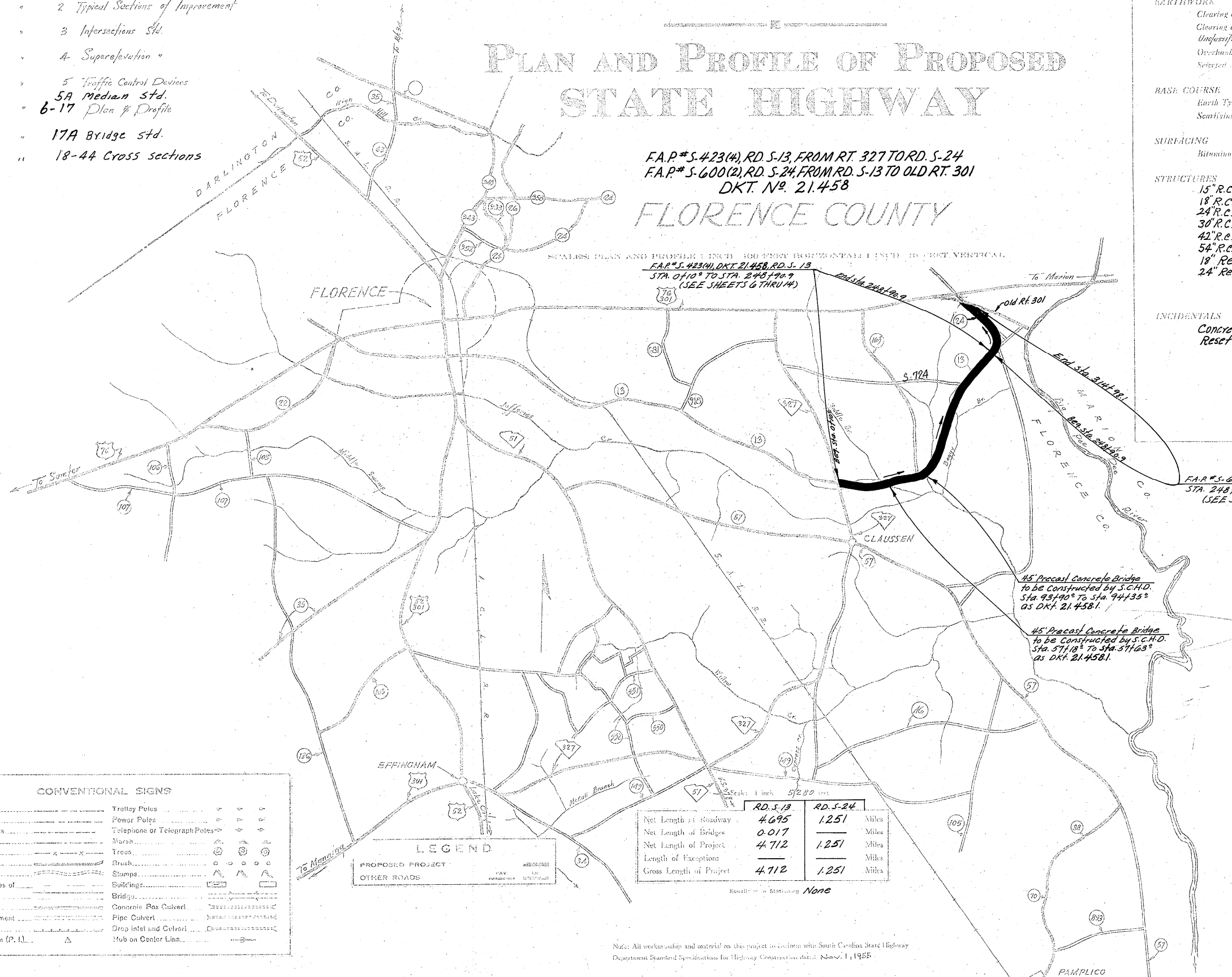
Bituminous Surfacing (Double Treatment) Types I thru G	58,490	17,524	S.Y.
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STRUCTURES

15" R.C. Culvert Pipe	932	180	L.F.
18" R.C. Culvert Pipe	480	172	L.F.
24" R.C. Culvert Pipe	152	120	L.F.
30" R.C. Culvert Pipe	44		L.F.
42" R.C. Culvert Pipe	48		L.F.
54" R.C. Culvert Pipe		92	L.F.
18" Relaid Pipe Culvert	95	36	L.F.
24" Relaid Pipe Culvert	94		L.F.

INCIDENTALS

Concrete Median		128	S.Y.
Reset Fences	3,300	500	L.F.



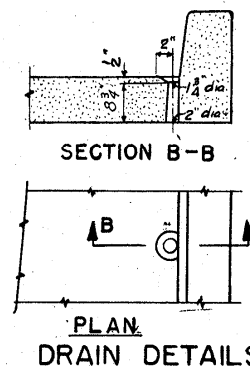
	RD. S-13	RD. S-24	
Net Length of Roadway	4.695	1.251	Miles
Net Length of Bridges	0.017		Miles
Net Length of Project	4.712	1.251	Miles
Length of Exceptions			Miles
Gross Length of Project	4.712	1.251	Miles

Result in Stationing None

Note: All workmanship and material on this project to conform with South Carolina State Highway Department Standard Specifications for Highway Construction dated Nov. 1, 1955.

APPROVED:
S.M. Pearson 5-27-60
STATE HIGHWAY ENGINEER DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED:
DISTRICT ENGINEER DATE
APPROVED:
DIVISION ENGINEER DATE



PLAN
DRAIN DETAILS

FED. ROAD DIV. NO.	STATE	COUNTY	DOCKET NO	ROUTE NO.	SHEET NO	TOTAL SHEET
3	S.C.	Florence	21-458	5-13	17A	

REINFORCING STEEL SCHEDULE					BENDING DETAILS	
ONE SPAN		2507 LBS.				
Mark	No. Reqd.	Size No.	Length	D		
A	52	7	14'-8"	S		
B	56	(5)	5'-2"	S		
C	24	4	5'-10"	B		
D	14	6	14'-6"	S		
E	32	6	5'-2"	S		
ONE BENT CAP		536 LBS.				
F	34	4	4'-2"	B		
G	8	7	27'-0"	S		

Hardware & OTHER MATERIAL			Detail
Mark	No.	Description	
ONE INTERIOR BENT			
a	* 1	1" ϕ x 28'-0" Tie Rod	<p>4" Thread bolts 5/8" Sq. Nuts 3/8" ϕ P.I. Washer 1/2" Lock Washer Tie Rod "a"</p>
	* 2	1" ϕ Sq. Nuts	
b	* 2	3/8" x 6" ϕ P.I. Washers	
c	5	3/8" x 22" Dowels	
	2	1/2" Lock Washers	
ONE END BENT			
a	* 1	1" ϕ x 28'-0" Tie Rod	<p>1 1/8" ϕ hole centered 6" 2 3/8" ϕ 3/8" P.I. Washer Round tapered point Dowel "c"</p>
	* 2	1" ϕ Sq. Nuts	
d	* 2	3/8" x 6" ϕ P.I. Washer	
c	5	3/8" x 22" Dowels	
	2	1/2" Lock Washers	
	4	3/8" x 6" Mach. Bolts w/ Nuts	
	4	5/8" Lock Washers	
ONE SPAN (INTERIOR OR END)			
	4	1" ϕ x 11" Bolts w/ Nuts	<p>8" 1 1/2" 4 3/4" 1 3/4" 6" 1 1/2" 3" 1 1/2" 3/8" ϕ hole 1 1/8" ϕ hole 3/8" P.I. Washer "d"</p>
	4	1" ϕ Lock Washers	
e	4	1/2" x 3" x 3" x 1/2" x 0'-6"	
			<p>6" 1 1/8" ϕ Hole centered (one leg only) Angle "e"</p>

* Tie rods, nuts and plate washers to conform to the latest A.S.T.M. Specification A7.

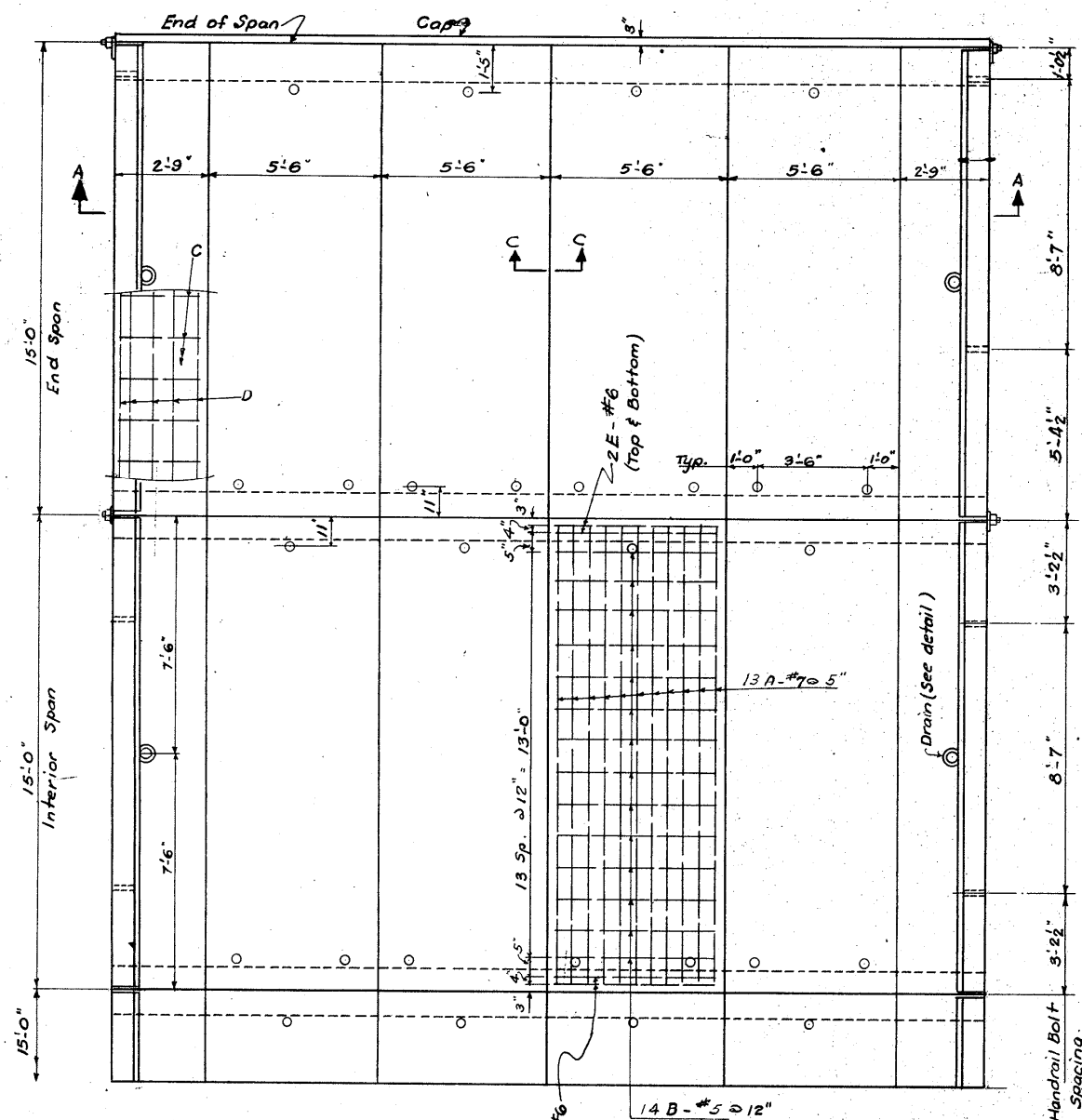
CONCRETE		
ONE CURB SECTION	1.57	C.Y.
ONE SLAB	2.36	C.Y.
TOTAL ONE SPAN	12.58	C.Y.
ONE CAP	1.27	C.Y.

S. C. STATE HIGHWAY DEPARTMENT
COLUMBIA

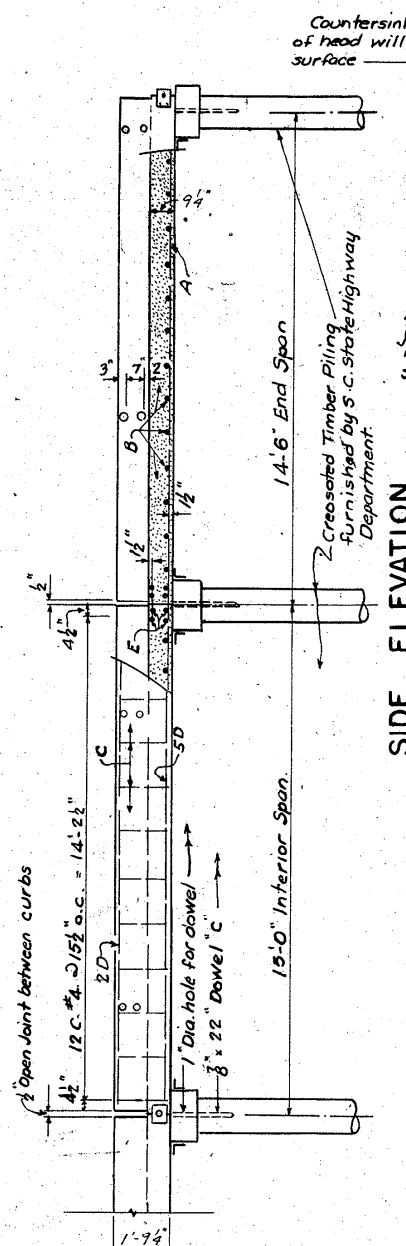
H 15 - 44

PRECAST CONCRETE
BRIDGE STANDARD

15 FT. SPAN - 26 FT. ROADWAY
DATE: NOV. 29, 1956.



PLAN
SCALE: $\frac{3}{8}'' = 1' - 0''$

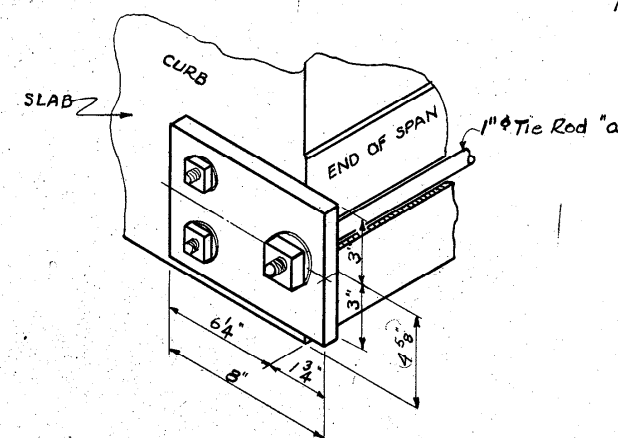


SIDE ELEVATION

SECTION THRU BENT CAP
AND ROADWAY SLAB

(SHOWING ANGLE CLIPS & HANDLING BOLT HOLES)

Notes:-
Design data:- A.A.S.H.O. Specifications (1953), H-15-44
live load. fs-20,000 psi, fc-1600 psi, n-8, fc-4000 p.s.i.
All concrete shall be Class AA.
Structural grade reinforcing steel not permitted.
All dimensions relative to reinforcing steel are
to centers of bars.
All exposed concrete edges except as noted shall
be chamfered $\frac{3}{4}$ " or edged with properly made edging tool.
Concrete shall be placed in forms as dry as
practicable and vibrated. If transit mixed concrete is
used add all water at site of pour.



LOCATION PLATE "d"
AT END OF END SPAN
SCALE: 3" = 1'-0"

REV #	J.H.F.	R.R.S.	7-57
	For H15-44 Loading		
QUANT	R.R.S.	H.D.L.	1-57
TR.	E.M.Q.	R.R.S.	1-57
DR.		H.D.L.	1-57
DBS	R.R.S.	D.P.D.	1-57
	BY	CHK'D	DATE

* Des. by D.F.D.
Ck. by R.R.S.

Recommended for Approval H. L. Ellich 2-12-57
Maintenance Engineer.
Approved S. W. Leaman 2-12-57
State Highway Engineer