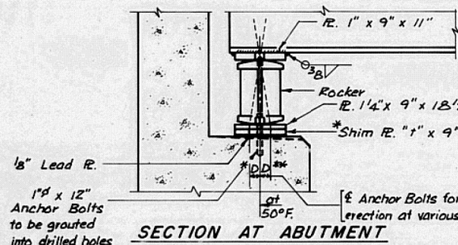
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.Z	4BR	JERSEY	26	17
FED. ROAD DIST. NO.	STATE SECTIONS	PROJECT		

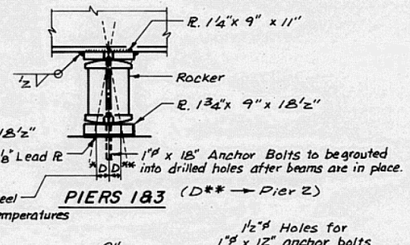
SHEET NO. 16
13 SHEETS

FOR INFORMATION ONLY

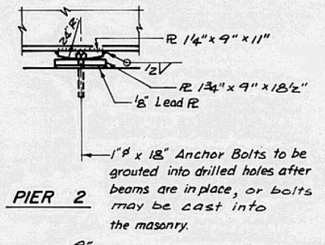
* Shim PL 1/2"x 9"x 18'2" S. Abut., Beams 1 & 6
Shim PL 1 1/8"x 9"x 18'2" N. Abut., Beams 1 & 6



SECTION AT ABUTMENT

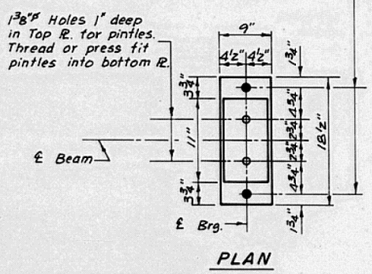


PIERS 1&3 (D** → Pier 2)

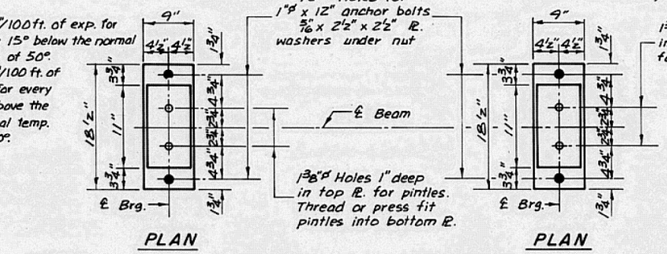


PIER 2

*D = 1/8"/100 ft. of exp. for every 15° below the normal temp. of 50°.
D** = 1/8"/100 ft. of exp. for every 15° above the normal temp. of 50°.

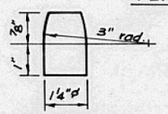


PLAN

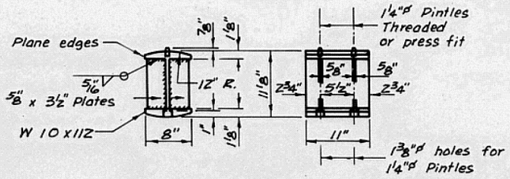


PLAN

PLAN



DETAIL OF PINTLE



DETAIL OF ROCKER AT ABUTS., PIERS 1&3

INTERIOR BEAM MOMENT TABLE

	0.4 Span 1&4	Pier 1&3	0.5 Span 2&3	Pier 2
Is (in⁴)	2850	4,090	2850	4,090
Ic PL (in⁴)	6173		6173	
Ic LL (in⁴)	8151		8151	
Ss (in³)	213	299	213	299
Sc PL (in³)	300		300	
Sc LL (in³)	324		324	
DL (K/ft)	0.65	0.85	0.65	0.85
MDL (ft-K)	196	421	173	423
fnon-comp(ksi)	11.0	16.9	9.7	17.0
SDL (K/ft)	0.18	—	0.18	—
M SDL (ft-K)	69	105	74	98
MLL (ft-K)	755	520	831	558
MImp (ft-K)	204	135	208	139
Total (ft-K)	1028	760	1,113	795
fs SDL+LL	38.3	30.5	41.4	31.9
fs total (ksi)	49.3	47.4	50	48.9
VR (K)	42.5		37.7	

INTERIOR BEAM REACTION TABLE

	ABUTMENT	PIER 1&3	PIER 2
R DL (K)	18.8	63.1	63.6
R LL (K)	34.3	40.2	41.3
Imp. (K)	9.3	10.5	10.3
R total (K)	62.4	113.8	115.2

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs Total.

Ic and Sc are the moment of inertia and section modulus of the composite section used in computing fs Total. (n=9 for LL+I, 3n = 27 for SDL)

VR is the maximum LL+Impact shear range in span, for the composite areas.

The load factor 1.3 [DL + $\frac{5}{3}$ (LL+I)] is used in computing moments and stresses.

At 0.5 Span 2&3, plastic design analysis is used for a braced, compact section.

BEARING DETAILS
F.A. ROUTE 2 SECTION 4BY
JERSEY COUNTY
STATION 615+36.50

DESIGNED - AYV	EXAMINED	DATE -	**STATE OF ILLINOIS**	**FOR INFORMATION ONLY – EXISTING BEARING DETAILS**
CHECKED -	ENGINEER OF STRUCTURAL SERVICES		**DEPARTMENT OF TRANSPORTATION**	**SN 042–0012**
DRAWN - AYV	PASSED	REVISED		SHEET NO. 12 OF 12 SHEETS
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
304	4-BY, 4B-1	JERSEY	26	26
		CONTRACT NO. 76G49		
		ILLINOIS FED. AID PROJECT		