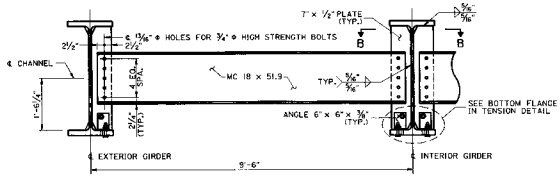
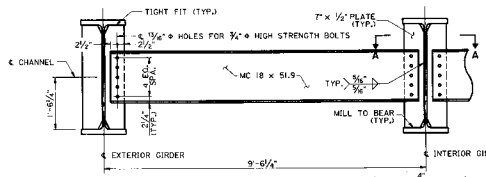
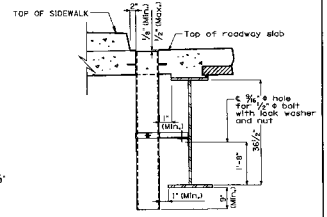


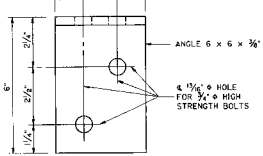
TYPICAL INTERMEDIATE DIAPHRAGM
(NOT SHOWING ALL BOLTS AT ANGLE FOR CLARITY)



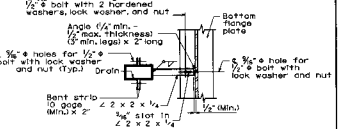
TYPICAL END DIAPHRAGM



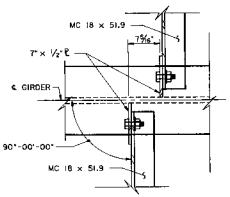
PART SECTION NEAR DRAIN



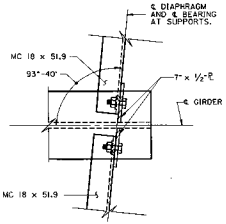
FRONT ELEVATION DETAIL
OF FLANGE CONNECTION ANGLE



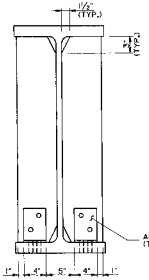
PART SECTION SHOWING
BRACKET ASSEMBLY



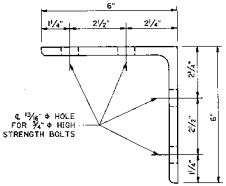
SECTION B-B
(SHOWING TYP. INTERMEDIATE DIAPHRAGM CONNECTION)



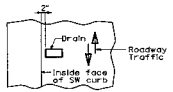
SECTION A-A
TYPICAL DIAPHRAGM CONNECTION AT ABUTMENTS



BOTTOM FLANGE IN TENSION
(NOT SHOWING BOLTS FOR CLARITY)

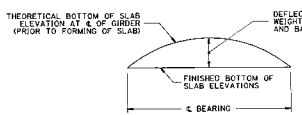


SECTION TROUGH FLANGE CONNECTION
ANGLE 6 × 6 × ⅜



PART PLAN OF SLAB AT DRAIN

DETAILS OF DRAINS
TRANSVERSE TO ROADWAY
SLAB DRAIN DETAILS



TYPICAL SLAB ELEVATION DIAGRAM
MAXIMUM BEAM DEAD LOAD DEFLECTION = 1½" AT MIDSPAN
MAXIMUM TOTAL DEAD LOAD DEFLECTION = 7⅞" AT MIDSPAN

THEORETICAL BOTTOM OF SLAB ELEVATIONS AT ℄ GIRDER (PRIOR TO FORMING FOR SLAB)

	SPAN 1 (107'-9" ℄ BRG. - ℄ BRG.)									
	℄ BRG. STIFF.	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	℄ BRG. STIFF.
GIRDER NO. 1	493.88	493.90	493.92	493.92	493.88	493.83	493.73	493.60	493.45	493.27	493.09
GIRDER NO. 2	494.07	494.10	494.11	494.11	494.08	494.02	493.93	493.80	493.64	493.47	493.29
GIRDER NO. 3	494.27	494.29	494.31	494.31	494.28	494.22	494.12	493.99	493.83	493.66	493.48
GIRDER NO. 4	494.28	494.30	494.32	494.31	494.28	494.22	494.12	493.99	493.84	493.66	493.48
GIRDER NO. 5	494.09	494.12	494.13	494.13	494.10	494.04	493.94	493.81	493.65	493.47	493.29
GIRDER NO. 6	493.91	493.93	493.95	493.94	493.91	493.85	493.75	493.62	493.46	493.29	493.10

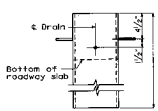
STEEL BEAM DESIGN DATA-PER BEAM

LIVE LOAD DISTRIBUTION FACTOR: 1.73 WHEEL LINES

DEAD LOAD: (EXCLUDING BEAM WT.)
NON-COMPOSITE = 1120 LB/FT
COMPOSITE = 651 LB/FT

MAXIMUM POSITIVE MOMENT: (INCLUDING BEAM WT.) (LOAD FACTORED)
D.L. COMPOSITE = 1226 K-FT
D.L. NON-COMPOSITE = 2719 K-FT
L.L. & IMPACT = 3773 K-FT
TOTAL = 7718 K-FT

COMPOSITE DESIGN SLAB (f'c = 4000 PSI): 99" X 8.5"



ELEVATION OF DRAIN

PLAN OF DRAIN

NOTE:
SLAB DRAINS MAY BE FABRICATED OF EITHER ½" WELDED SHEETS OF ASTM A709 GRADE 36 STEEL OR FROM ½" STRUCTURAL STEEL TUBING AS M 4500 ON A501.
SLAB DRAIN BRACKET ASSEMBLY SHALL BE ASTM A709 GRADE 36 STEEL.
OUTSIDE DIMENSIONS OF DRAINS ARE 8" X 4".
LOCATE DRAINS IN SLAB BY DIMENSIONS SHOWN IN PART SECTION NEAR DRAIN.
SHIFT REINFORCING STEEL IN FIELD WHERE NECESSARY TO CLEAR DRAINS.
THE DRAINS AND BRACKET ASSEMBLY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
ALL BOLTS, HARDENED WASHERS, LOCK WASHERS AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
SHOP DRAWINGS WILL NOT BE REQUIRED FOR THE SLAB DRAINS AND THE BRACKET ASSEMBLY.
THE BOLT HOLE FOR THE BRACKET ASSEMBLY ATTACHMENT SHALL BE LOCATED ON THE GIRDER SHOP DRAWINGS.

SEE SHEET NO. 90 FOR DRAIN SPACING.

SLAB DRAIN DETAILS

STRUCTURAL STEEL DETAILS

STATE OF MISSOURI — DONALD L. STONE — REGISTERED PROFESSIONAL ENGINEER — 21 Dec 89