FEDERAL DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	IOWA			18	40
	ILLINOIS				

℄ Pier 4 & Matchline — ℄ Pier 5 — ℄ Brg. Exp. Jt. 3 — ℄ Pier 6

SPAN LENGTHS

GIRDER A	295'-0	252'-0	15'-0
GIRDER B	295'-0	252'-0	15'-0
GIRDER C	295'-0	252'-0	15'-0
GIRDER D	295'-0	252'-0	15'-0
GIRDER E	295'-0	252'-0	15'-0

FIELD SPLICES

GIRDER A	64'-0	126'-0	50'-0	55'-0	66'-0	130'-0	56'-0	15'-0
GIRDER B	64'-0	126'-0	50'-0	55'-0	66'-0	130'-0	56'-0	15'-0
GIRDER C	64'-0	126'-0	50'-0	55'-0	66'-0	130'-0	56'-0	15'-0
GIRDER D	64'-0	126'-0	50'-0	55'-0	66'-0	130'-0	56'-0	15'-0
GIRDER E	64'-0	126'-0	50'-0	55'-0	66'-0	130'-0	56'-0	15'-0

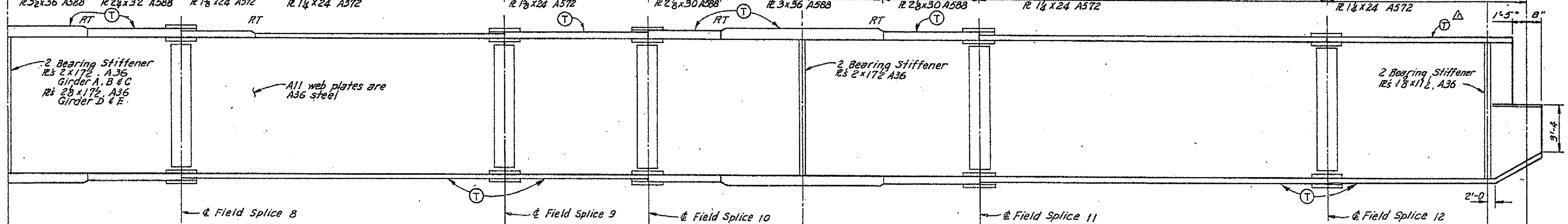
SHEAR CONNECTOR SPACING

GIRDER A	10'-6	26spa@24"=52'-0	3'-3	43spa@15"=53'-9	46spa@18"=69'-0	3'-3	37spa@15"=46'-3	4'-0	22spa@24"=44'-0	9'-0	8'-6	28spa@24"=56'-0	3'-0	26spa@15"=32'-6	30spa@20"=50'-0	22spa@24"=44'-0	4'-0	34spa@16"=45'-4	8'-8	6'-2	3'-10
GIRDER B	10'-6	26spa@24"=52'-0	3'-3	43spa@15"=53'-9	46spa@18"=69'-0	3'-3	37spa@15"=46'-3	4'-0	22spa@24"=44'-0	9'-0	8'-6	28spa@24"=56'-0	3'-0	26spa@15"=32'-6	30spa@20"=50'-0	22spa@24"=44'-0	4'-0	34spa@16"=45'-4	8'-8	6'-2	3'-10
GIRDER C	10'-6	26spa@24"=52'-0	3'-3	43spa@15"=53'-9	46spa@18"=69'-0	3'-3	37spa@15"=46'-3	4'-0	22spa@24"=44'-0	9'-0	8'-6	28spa@24"=56'-0	3'-0	26spa@15"=32'-6	30spa@20"=50'-0	22spa@24"=44'-0	4'-0	34spa@16"=45'-4	8'-8	6'-2	3'-10
GIRDER D	10'-6	26spa@24"=52'-0	3'-3	43spa@15"=53'-9	46spa@18"=69'-0	3'-3	37spa@15"=46'-3	4'-0	22spa@24"=44'-0	9'-0	8'-6	28spa@24"=56'-0	3'-0	26spa@15"=32'-6	30spa@20"=50'-0	22spa@24"=44'-0	4'-0	34spa@16"=45'-4	8'-8	6'-2	3'-10
GIRDER E	10'-6	26spa@24"=52'-0	3'-3	43spa@15"=53'-9	46spa@18"=69'-0	3'-3	37spa@15"=46'-3	4'-0	22spa@24"=44'-0	9'-0	8'-6	28spa@24"=56'-0	3'-0	26spa@15"=32'-6	30spa@20"=50'-0	22spa@24"=44'-0	4'-0	34spa@16"=45'-4	8'-8	6'-2	3'-10

4 spa@15"=5'-0 (Girders A–B, C–D, E)

TOP FLANGE PLATE

GIRDER A	30'-0 PL 3x36 A588	34'-0 PL 2¼x30 A588	24'-0 PL 1¼x24 A572	102'-0 PL 1¼x24 A572	50'-0 PL 1⅜x24 A572	25'-0 PL 2⅞x30 A588	30'-0 / 30'-0 PL 3x36 A588	36'-0 PL 2⅞x30 A588	130'-0 PL 1¼x24 A572	71'-0 PL 1¼x24 A572
GIRDER B	30'-0 PL 3x36 A588	34'-0 PL 2¼x30 A588	24'-0 PL 1¼x24 A572	102'-0 PL 1¼x24 A572	50'-0 PL 1⅜x24 A572	25'-0 PL 2⅞x30 A588	30'-0 / 30'-0 PL 3x36 A588	36'-0 PL 2⅞x30 A588	130'-0 PL 1¼x24 A572	71'-0 PL 1¼x24 A572
GIRDER C	30'-0 PL 3⅛x36 A588	34'-0 PL 2¼x30 A588	24'-0 PL 1¼x24 A572	102'-0 PL 1¼x24 A572	50'-0 PL 1⅜x24 A572	25'-0 PL 2⅞x30 A588	30'-0 / 30'-0 PL 3x36 A588	36'-0 PL 2⅞x30 A588	130'-0 PL 1¼x24 A572	71'-0 PL 1¼x24 A572
GIRDER D	30'-0 PL 3½x36 A588	34'-0 PL 2¼x32 A588	24'-0 PL 1⅜x24 A572	102'-0 PL 1¼x24 A572	50'-0 PL 1⅜x24 A572	25'-0 PL 2⅞x30 A588	30'-0 / 30'-0 PL 3x36 A588	36'-0 PL 2⅞x30 A588	130'-0 PL 1¼x24 A572	71'-0 PL 1¼x24 A572
GIRDER E	30'-0 PL 3½x36 A588	34'-0 PL 2¼x32 A588	24'-0 PL 1⅜x24 A572	102'-0 PL 1¼x24 A572	50'-0 PL 1⅜x24 A572	25'-0 PL 2⅞x30 A588	30'-0 / 30'-0 PL 3x36 A588	36'-0 PL 2⅞x30 A588	130'-0 PL 1¼x24 A572	71'-0 PL 1¼x24 A572



BOTTOM FLANGE PLATE

GIRDER A	30'-0 PL 3x36 A588	34'-0 PL 1⅞x36 A572	126'-0 PL 1⅝x30 A572	50'-0 PL 1⅝x30 A572	25'-0 PL 1¾x36 A572	30'-0 PL 3x36 A588	30'-0 PL 3x36 A588	36'-0 PL 1¾x36 A572	130'-0 PL 1⅞x30 A572	71'-0 PL 1¾x24 A572
GIRDER B	30'-0 PL 3x36 A588	34'-0 PL 1⅞x36 A572	126'-0 PL 1⅝x30 A572	50'-0 PL 1⅝x30 A572	25'-0 PL 1¾x36 A572	30'-0 PL 3x36 A588	30'-0 PL 3x36 A588	36'-0 PL 1¾x36 A572	130'-0 PL 1⅞x30 A572	71'-0 PL 1¾x24 A572
GIRDER C	30'-0 PL 3⅜x36 A588	34'-0 PL 1⅞x36 A572	126'-0 PL 1½x30 A572	50'-0 PL 1½x30 A572	25'-0 PL 1¾x36 A572	30'-0 PL 3x36 A588	30'-0 PL 3x36 A588	36'-0 PL 1¾x36 A572	130'-0 PL 1⅞x30 A572	71'-0 PL 1¾x24 A572
GIRDER D	30'-0 PL 3⅜x36 A588	34'-0 PL 2⅛x36 A588	126'-0 PL 1½x30 A572	50'-0 PL 1½x30 A572	25'-0 PL 1¾x36 A572	30'-0 PL 3x36 A588	30'-0 PL 3x36 A588	36'-0 PL 1¾x36 A572	130'-0 PL 1⅞x30 A572	71'-0 PL 1¾x24 A572
GIRDER E	30'-0 PL 3⅜x36 A588	34'-0 PL 2⅛x36 A588	126'-0 PL 1½x30 A572	50'-0 PL 1½x30 A572	25'-0 PL 1¾x36 A572	30'-0 PL 3x36 A588	30'-0 PL 3x36 A588	36'-0 PL 1¾x36 A572	130'-0 PL 1⅞x30 A572	71'-0 PL 1¾x24 A572

WEB PLATE

GIRDER A	64'-0 PL ⅞x120	126'-0 PL ¾x120	50'-0 PL ¾x120	55'-0 PL ⅞x120	66'-0 PL ⅞x120	130'-0 PL ¾x120	71'-0 PL ¾x120
GIRDER B	64'-0 PL ⅞x120	126'-0 PL ¾x120	50'-0 PL ¾x120	55'-0 PL ⅞x120	66'-0 PL ⅞x120	130'-0 PL ¾x120	71'-0 PL ¾x120
GIRDER C	64'-0 PL ⅞x120	126'-0 PL ¾x120	50'-0 PL ¾x120	55'-0 PL ⅞x120	66'-0 PL ⅞x120	130'-0 PL ¾x120	71'-0 PL ¾x120
GIRDER D	64'-0 PL ⅞x120	126'-0 PL ¾x120	50'-0 PL ¾x120	55'-0 PL ⅞x120	66'-0 PL ⅞x120	130'-0 PL ¾x120	71'-0 PL ¾x120
GIRDER E	64'-0 PL ⅞x120	126'-0 PL ¾x120	50'-0 PL ¾x120	55'-0 PL ⅞x120	66'-0 PL ⅞x120	130'-0 PL ¾x120	71'-0 PL ¾x120

GIRDER ELEVATION

NOTES:

For field splice details see Sheet 73

For "Shear Connector Details" for 18" and 24" flange see Sheet 84

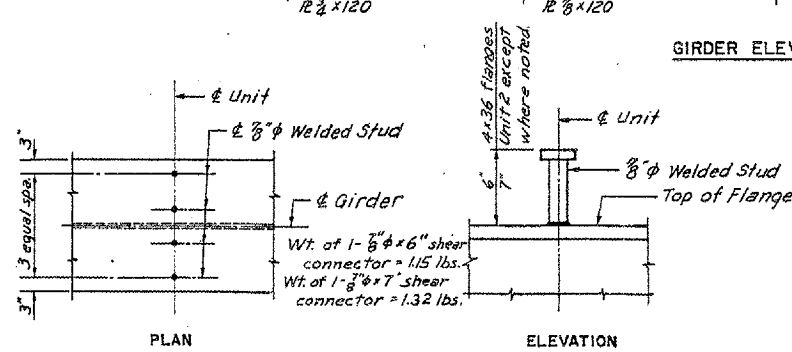
The weight of the shear connectors are included in the Structural Steel Quantities.

There shall be no shear connector groups located at the ℄ of pier or at ℄ Brg. Exp. Joints and field splices.

RT denotes location of splices that require radiographic inspection.

For girder end details see Sheet 88.

(T) denotes tension flange plate.



SHEAR CONNECTOR DETAIL

Revised (7-26-83) Designation (T) for tension flange plate added to top flange plate over Pier 6 as marked by ⚠.

MISSISSIPPI RIVER BRIDGE
KEOKUK, IOWA-HAMILTON, ILLINOIS

STEEL ALTERNATE

DESIGN FOR 0° SKEW
3340' x 64' CONTINUOUS WELDED PLATE GIRDER BRIDGE

GIRDER ELEVATION-UNIT 2

STA. 80+40.00
RIVER MILE 363.9
LEE COUNTY, IOWA

PROJECT NO. BRF-19-1(3)--38-56
HANCOCK COUNTY, ILLINOIS

DESIGN SHEET 69 OF

6767-25-00

HOWARD NEEDLES TAMMEN & BERGENDOFF HNTB

MADE LCY DATE 6-82 | CHECKED DLM DATE 7-82

DESIGN NO. 282 LEE COUNTY FILE 26723 SHEET 75 OF 227

FOR INFORMATION ONLY