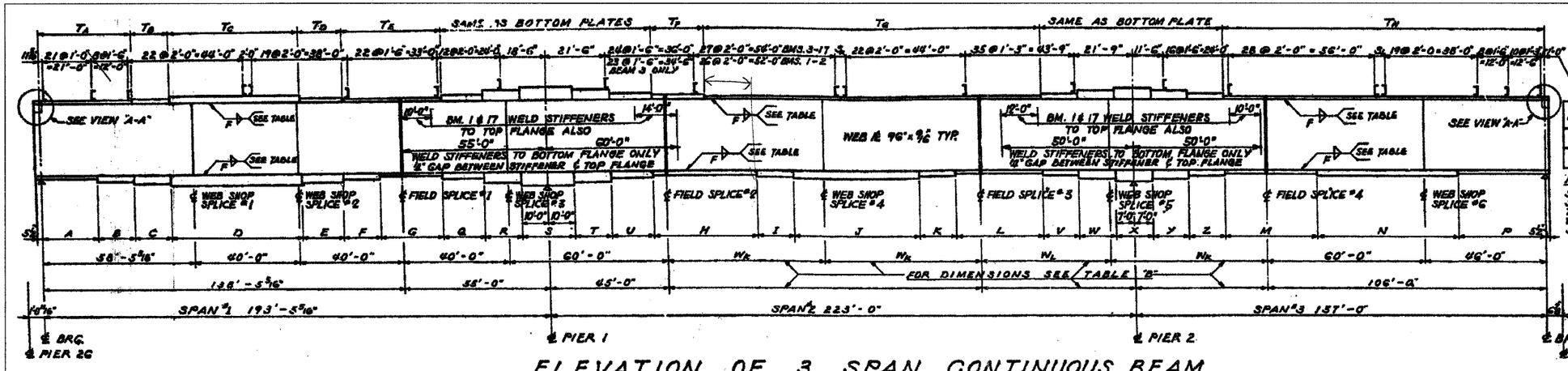
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-008F	COOK	93	89
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

62919



ELEVATION OF 3 SPAN CONTINUOUS BEAM

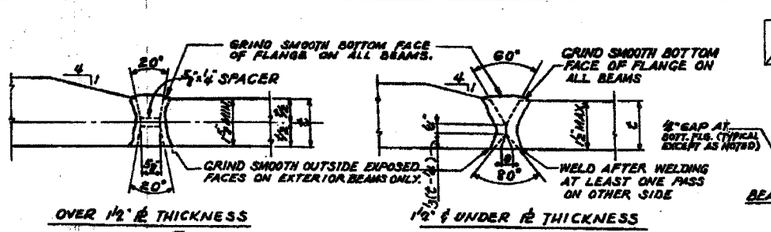
SHEAR CONNECTOR SPACING

ITEM	BEAMS 1	2	3	4	5-17
S_1	1'-1 7/8"	1'-4 7/16"	1'-11 3/16"	1'-2 1/2"	2'-0"
S_2	1'-2"	1'-6 7/16"	1'-6 7/16"	1'-9 7/16"	2'-0"

NOTES:
SHEAR CONNECTORS AT FIELD SPLICES CAN BE ADJUSTED TO AVOID INTERFERENCE WITH WASHERS ON HIGH STRENGTH BOLTS.

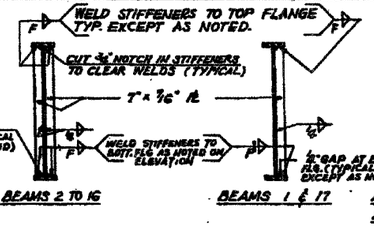
TABLE FOR 3 SPAN CONTINUOUS BEAMS

BEAM NUMBER		BOTTOM FLANGE PLATES															TOP AND BOTTOM FLANGE PLATES											TOP FLANGE PLATES					TABLE "B"			BEAM NUMBER	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	T_A	T_B	T_C	T_D	T_E	T_F	T_G	T_H	F_{1-3} F_{4-17}	W_K	W_L		
1, 9, 17	SIZE	16"x 1 1/16"	16"x 1 1/2"	16"x 2 1/8"	16"x 2 1/2"	16"x 2 1/8"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 1/2"			16"x 1 1/2"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 1/2"	16"x 1 5/16"	22"x 1 1/2"	22"x 3"	22"x 4"	22"x 3"	22"x 1 1/2"	22"x 1 1/2"	22"x 2 1/2"	22"x 2 1/2"	22"x 3"	22"x 2 1/2"	22"x 1 1/2"	16"x 1 1/2"	16"x 1"	—	—	—	—	—	—	—	SIZE	1, 9, 17
1	LENGTH	17'-5 5/16"	19'-0"	14'-0"	46'-0"	16'-0"	16'-0"	23'-0"	47'-0"			56'-0"	19'-0"	28'-1 1/2"	28'-2"	63'-0"	19'-0"	14'-0"	20'-0"	14'-0"	16'-0"	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	16'-0"	17'-5 5/16"	19'-0"	76'-0"	39'-0"	20'-0"	125'-1 5/8"	119'-2"	118'-0"	57'-0"	58'-0"	59'-0"	LENGTH	1
9, 17	LENGTH	"	"	"	"	"	"	"	48'-0"			"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	126'-0"	120'-0"	120'-0"	58'-0"	59'-0"	60'-0"	LENGTH	9, 17
7, 8, 10, 15, 16	SIZE	16"x 1 5/16"	16"x 1 1/2"	16"x 2"	16"x 2 1/2"	16"x 2"	16"x 1 1/2"	16"x 1 5/16"	16"x 1"	16"x 1 5/16"	16"x 1 1/2"	16"x 1 1/2"	16"x 1 1/2"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 5/16"	22"x 1 1/2"	22"x 2 1/2"	22"x 3 1/2"	22"x 2 1/2"	22"x 2"	22"x 1 1/2"	22"x 1 1/2"	22"x 2"	22"x 2"	22"x 2 1/2"	22"x 2"	22"x 1 1/2"	16"x 1 1/2"	16"x 1"	16"x 1 5/16"	16"x 1"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 5/16"	—	—	—	SIZE	7, 8, 10, 15, 16
	LENGTH	19'-5 5/16"	14'-0"	14'-0"	53'-0"	14'-0"	14'-0"	21'-0"	38'-0"	14'-0"	53'-0"	18'-0"	29'-0"	30'-0"	62'-0"	38'-0"	18'-0"	14'-0"	20'-0"	14'-0"	16'-0"	16'-0"	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	16'-0"	35'-5 5/16"	69'-0"	34'-0"	45'-0"	20'-0"	128'-0"	122'-0"	120'-0"	58'-0"	57'-0"	59'-0"	LENGTH	7, 8, 10, 15, 16
6, 11, 12, 13, 14	SIZE	16"x 1 5/16"	16"x 1 5/8"	16"x 1 5/8"	16"x 2 1/2"	16"x 1 5/8"	16"x 1 5/8"	16"x 1 5/16"	16"x 1"	16"x 1 5/16"	16"x 1 5/8"	16"x 1 5/8"	16"x 1 5/8"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 5/16"	22"x 1 5/8"	22"x 2 1/2"	22"x 3"	22"x 2 1/2"	22"x 1 5/8"	22"x 1"	22"x 1 1/2"	22"x 2 1/2"	22"x 2"	22"x 2 1/2"	22"x 1 5/8"	16"x 1 5/8"	16"x 1"	16"x 1 5/16"	16"x 1"	16"x 1 5/16"	16"x 1 5/8"	16"x 1 5/8"	—	—	—	SIZE	6, 11, 12, 13, 14
	LENGTH	21'-5 5/16"	16'-0"	16'-0"	50'-0"	16'-0"	16'-0"	24'-0"	39'-0"	16'-0"	48'-0"	14'-0"	33'-0"	35'-0"	58'-0"	33'-0"	16'-0"	14'-0"	20'-0"	14'-0"	16'-0"	16'-0"	14'-0"	14'-0"	14'-0"	14'-0"	16'-0"	35'-5 5/16"	69'-0"	34'-0"	50'-0"	16'-0"	38'-0"	20'-0"	128'-0"	122'-0"	120'-0"	58'-0"	57'-0"	59'-0"	LENGTH	6, 11, 12, 13, 14
2, 3, 4, 5	SIZE	16"x 1 5/16"	16"x 1 1/2"	16"x 1 5/8"	16"x 1 1/2"	16"x 1 1/2"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 1/2"	16"x 1 5/8"	16"x 1 5/8"	16"x 1 5/8"	16"x 1 5/16"	16"x 1 5/16"	16"x 1 5/16"	22"x 1 5/8"	22"x 2"	22"x 2 1/2"	22"x 2"	22"x 1 5/8"	22"x 1 1/2"	22"x 2"	22"x 2 1/2"	22"x 2"	22"x 1 5/8"		16"x 1 5/16"	16"x 1"	—	16"x 1 5/16"	—	16"x 1 5/16"	—	—	—	—	SIZE	2, 3, 4, 5
2	LENGTH	25'-5 5/16"	20'-0"	62'-0"	18'-0"	30'-0"	61'-3"	14'-0"	38'-0"	18'-0"	34'-6 1/2"	29'-9 1/2"	62'-0"	30'-0"	14'-0"	14'-0"	20'-0"	14'-0"	16'-0"	14'-0"	14'-0"	14'-0"	14'-0"	14'-0"	49'-5 5/16"	48'-0"	58'-0"	145'-9 1/16"	121'-6 1/2"	118'-6"	57'-3 1/2"	58'-6 1/2"	59'-3"	48'-6 1/2"	LENGTH	2
3	LENGTH	"	"	"	"	"	61'-6"	"	"	"	34'-11 1/2"	29'-6 1/2"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	146'-5 5/16"	121'-6 1/2"	118'-11 1/2"	57'-6 1/2"	58'-6 1/2"	59'-5 1/2"	48'-7"	LENGTH	3
4	LENGTH	"	"	"	"	"	61'-9"	"	"	"	35'-5 1/2"	29'-9 1/2"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	147'-2 1/16"	121'-6 1/2"	119'-5 1/2"	57'-9"	58'-7 1/2"	59'-8 1/2"	48'-9 1/2"	LENGTH	4
5	LENGTH	"	"	"	"	"	62'-0"	"	"	"	36'-0"	30'-0"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	148'-0"	122'-0"	120'-0"	58'-0"	58'-0"	59'-0"	48'-0"	LENGTH	5



FLANGE BUTT WELDS

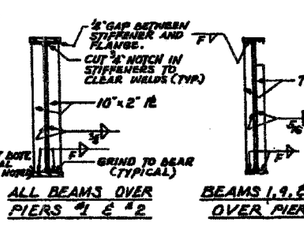
NOTES: ALL WELDS SHALL BE MADE BY THE SUBMERGED ARC WELDING METHOD.



INTERMEDIATE STIFFENERS

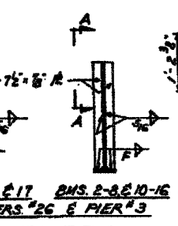
SCALE: 4" = 1'-0"

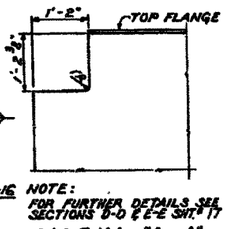
INTERMEDIATE STIFFENERS WITH CROSSFRAME CONNECTIONS ARE ON SKEW FOR BEAMS 1 TO 4 BETWEEN FIELD SPLICES #2 AND #4. FOR DETAILS SEE FRAMING PLANS AND SHEET #18



BEARING STIFFENERS

SCALE: 1" = 1'-0"

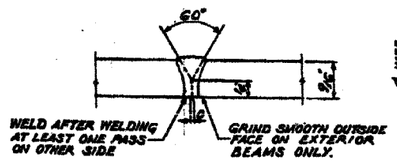




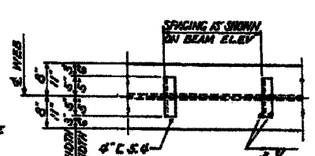
VIEW "A-A"

SCALE: ¾" = 1'-0"

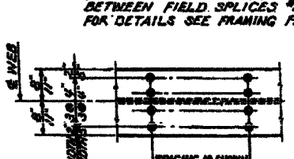
NOTES:
ALL LONGITUDINAL DIMENSIONS ARE HORIZONTAL AND TAKEN ALONG THE BOTTOM OF WEB PLATE.
FOR STIFFENER SPACING SEE FRAMING PLANS.
FOR CAMBER DIAGRAM SEE SHEET #16
FOR SPLICE DETAILS SEE SHEET #15
FOR CROSSFRAME DETAILS AND ADDITIONAL DETAILS SEE SHTS. # 17 & 18
ALL STIFFENERS TO CONFORM TO A.S.T.M. A 573 STEEL.



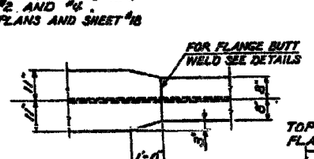
WEB BUTT WELD



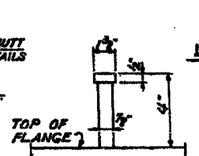
CHANNEL SHEAR



ALTERNATE STUD WELD



FLANGE



STUD DETAIL

WELD SIZE "F" TABLE

FLANGE & THICKNESS	WELD SIZE "F"
7/16 THRU 1½"	5/16"
1⅝ THRU 2⅛"	⅜"
2⅜ THRU 4"	½"

FOR INFORMATION ONLY

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

SOUTH ROUTE SUPERHIGHWAY
ELEVATED HIGHWAY
STEWART AVE. TO CANAL ST.
SECTION 3-2424.3-3H

Sheet 14 of 45

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
FABRICATION CONTRACT
NB DAN RYAN ELEVATED BRIDGE
REPAIR FROM 15TH TO 28TH STREETS
EXISTING PLAN INFORMATION SN 016-1116
SCALE: NTS — DRAWN BY: BDC
DATE: 5/23/2005 — CHECKED BY: BLU

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
134 EAST RANDOLPH STREET SUITE 2650 CHICAGO, ILLINOIS 60601
JOB NO. 668

5/23/2005 9:27:36 AM

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n:\660\cad\dot\dot10\pln\13a\sheets\660_13a_sp117.dgn