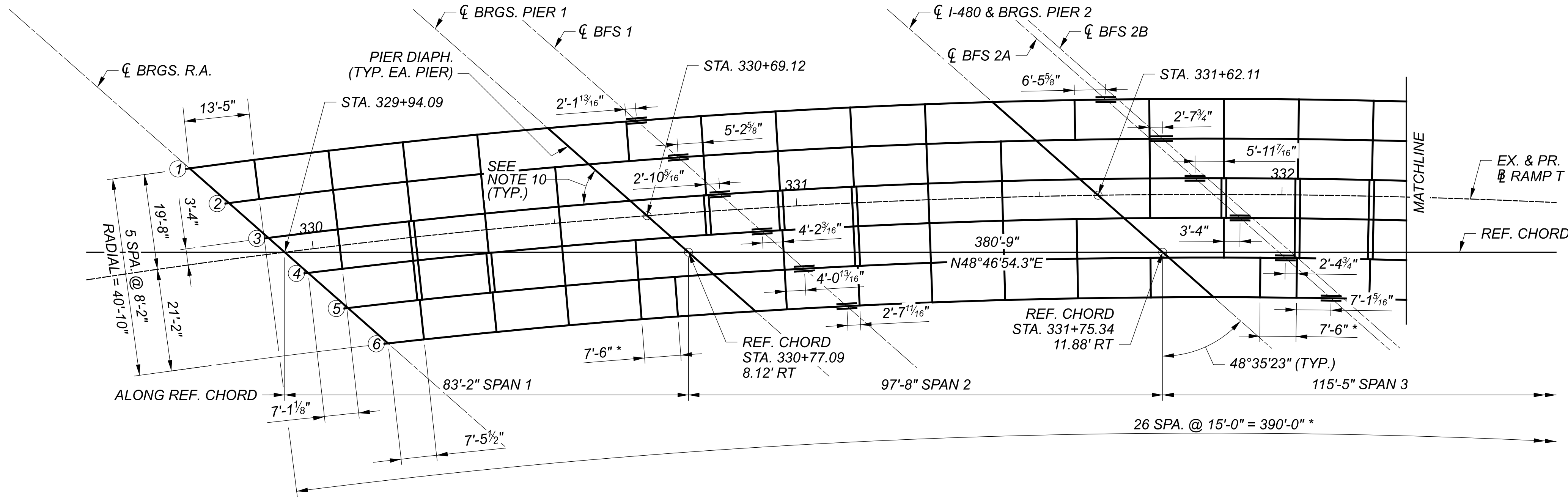




FRAMING PLAN

CURVE DATA:

P.I. = STA 334+72.59
 $\Delta = 60^{\circ}00'56''$ RT
 $D_c = 03^{\circ}45'00''$
 $R = 1,527.89'$
 $T = 882.40'$
 $L = 1600.42'$
 $E = 236.5'$

NOTES:

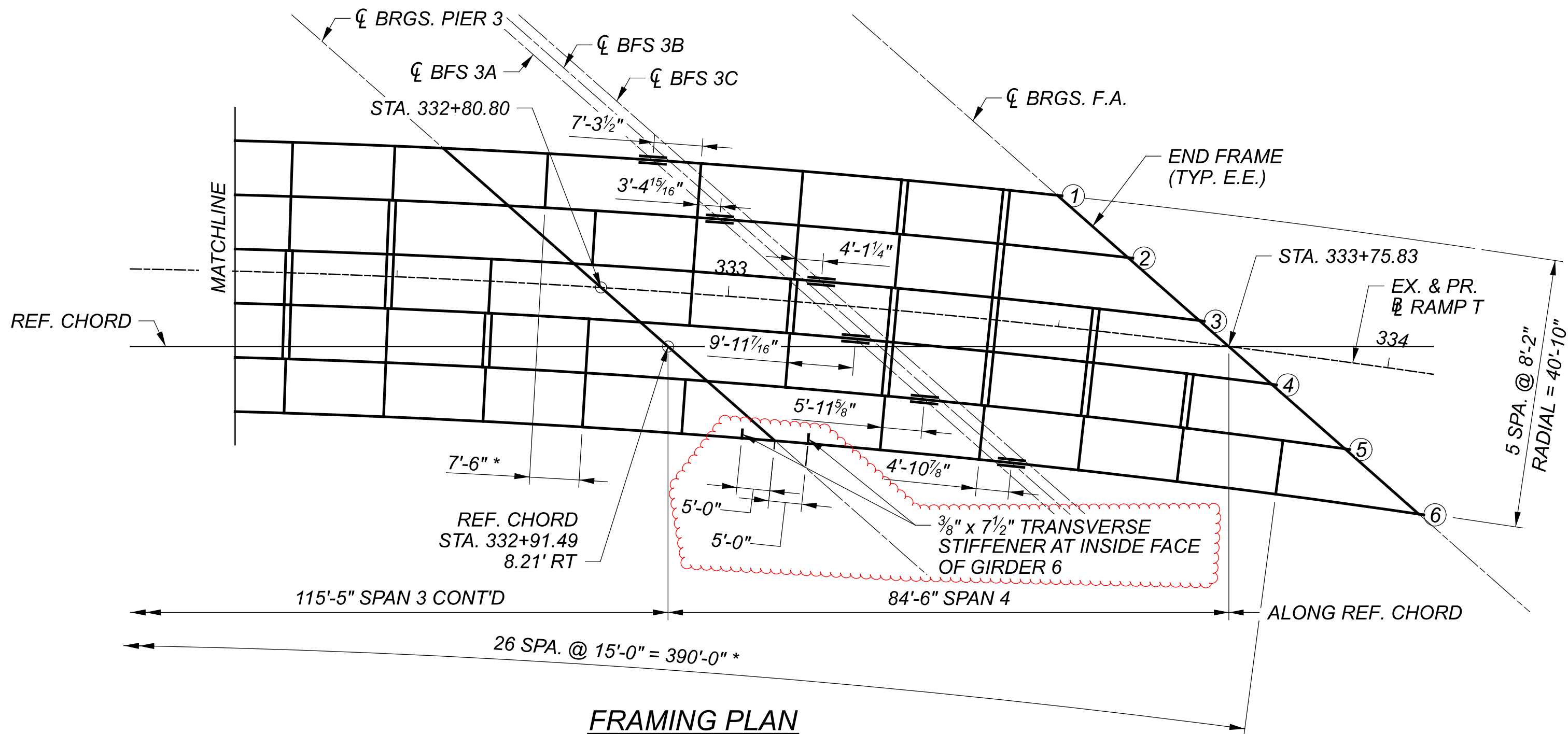
- ALL DIMENSIONS SHOWN ARE HORIZONTAL.
- GIRDER SPACING ARE MEASURED, AND CROSS-FRAMES ARE PLACED, RADIAL TO THE RAMP $\frac{1}{2}$.
- * MEASURED ALONG STRINGER 6

CROSS-FRAMES:

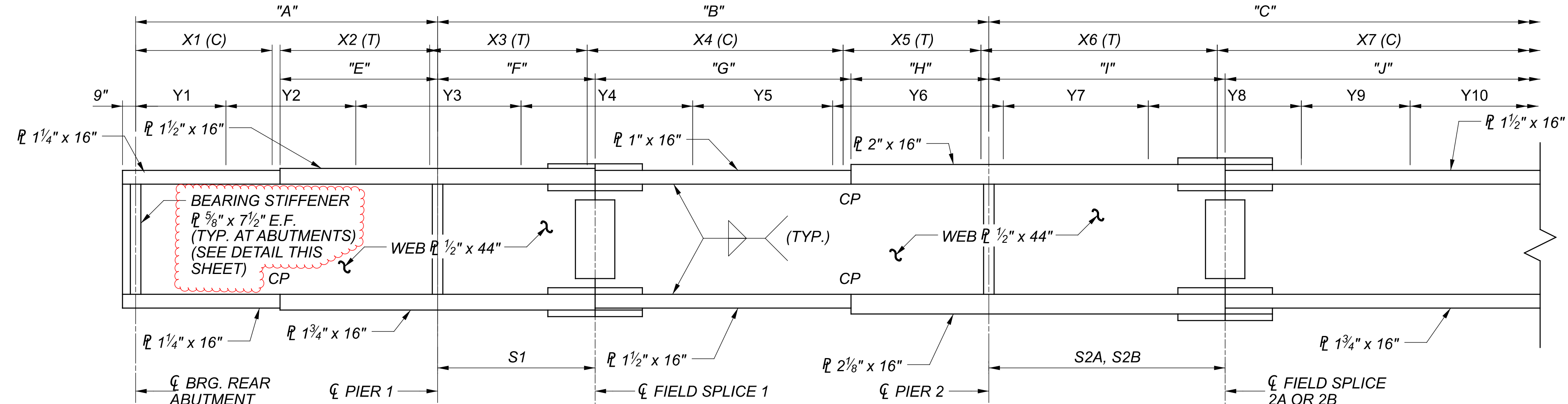
- FOR TYPE 1 AND TYPE 2 CROSS-FRAMES, SEE SHEET 36/51.
- TYPES "A" & "C" CROSS-FRAMES ARE CONFIGURED AS PER SCD GSD-1-19.
- TYPE "B" CROSS-FRAMES PER GSD-1-19 SHALL NOT BE USED.
- CENTERLINES OF BOLTED FIELD SPLICES ARE PARALLEL TO ALL SUBSTRUCTURE UNITS.
- FOR ERECTION PLANS, SEE SHEET 13/51 AND 14/51.
- FOR TRANSVERSE SECTION, SEE SHEET 31/51.
- FOR GIRDER ELEVATION TABLES AND DETAILS, SEE SHEET 33/51.
- FOR CAMBER TABLES, SEE SHEET 34/51.
- FOR SPLICE DETAILS, SEE SHEET 35/51.
- SEE ABUTMENT AND PIER SHEETS FOR GIRDER ANGLE.

LEGEND

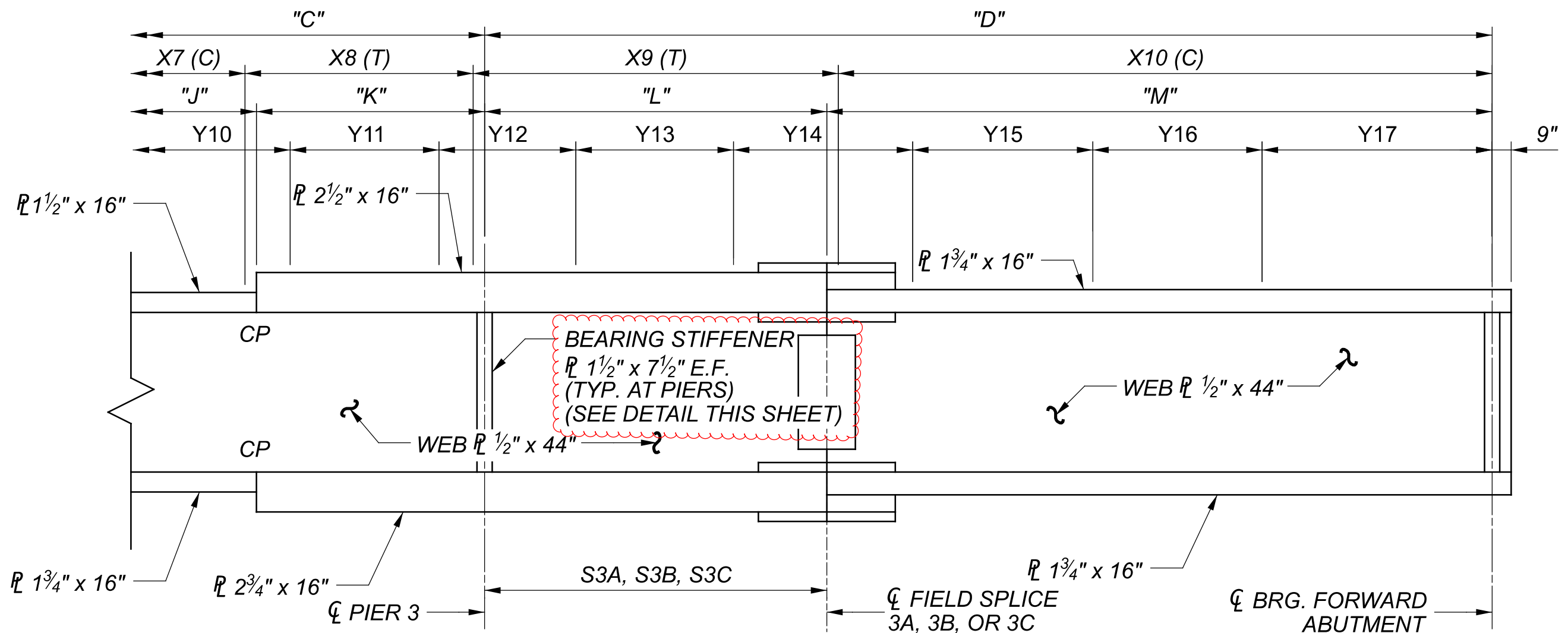
- - TYPE 1 CROSS-FRAME
===== - TYPE 2 CROSS-FRAME



FRAMING PLAN

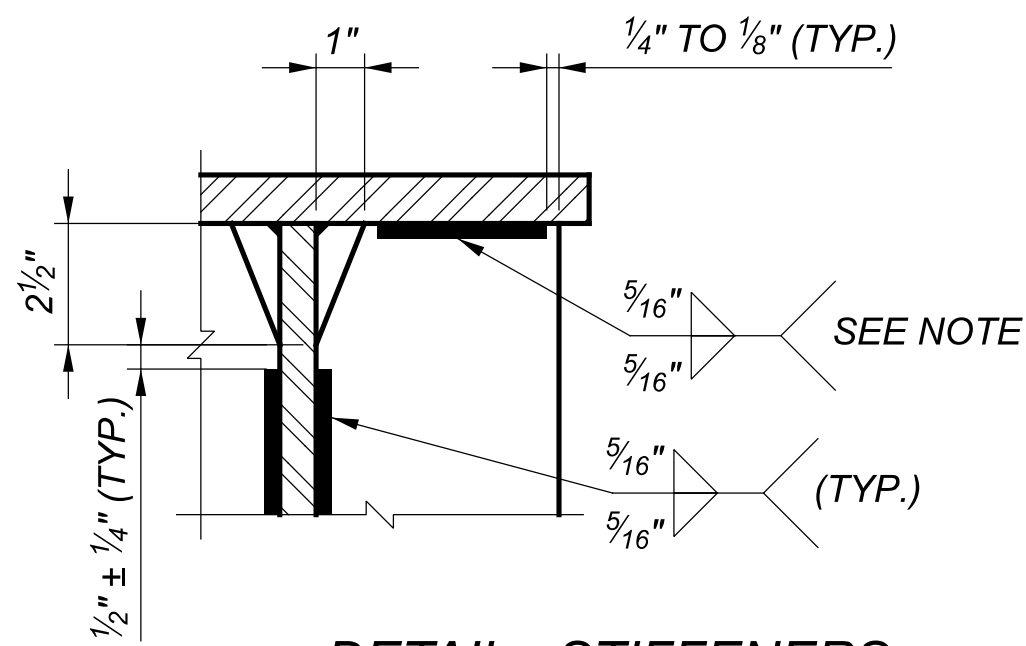


TYPICAL GIRDER ELEVATION



TYPICAL GIRDER ELEVATION

TABLE OF SHEAR STUD SPACING						
DIMENSION	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6
Y1	25 SPA. @ 15" = 30'-3"	81 SPA. @ 9" = 60'-9"	81 SPA. @ 9" = 60'-9"	75 SPA. @ 9" = 56'-3"	101 SPA. @ 8" = 67'-4"	10 SPA. @ 9" = 7'-6"
Y2	60 SPA. @ 12" = 60'-0"	40 SPA. @ 7" = 23'-4"	53 SPA. @ 7" = 30'-10"	61 SPA. @ 7" = 35'-7"	50 SPA. @ 6" = 25'-0"	53 SPA. @ 12" = 53'-0"
Y3	N/A	9 SPA. @ 9" = 6'-9"	N/A	N/A	N/A	48 SPA. @ 8" = 32'-0"
Y4	4'-8 ³ / ₈ "	4'-4 ⁷ / ₁₆ "	3'-8 ³ / ₄ "	4'-1 ³ / ₈ "	4'-0 ⁵ / ₁₆ "	4'-7 ⁵ / ₈ "
Y5	20 SPA. @ 15" = 25'-0"	83 SPA. @ 9" = 62'-3"	76 SPA. @ 9" = 57'-0"	75 SPA. @ 9" = 55'-9"	93 SPA. @ 8" = 62'-0"	60 SPA. @ 12" = 60'-0"
Y6	58 SPA. @ 12" = 58'-0"	46 SPA. @ 7" = 26'-10"	40 SPA. @ 7" = 23'-4"	39 SPA. @ 7" = 22'-9"	46 SPA. @ 6" = 23'-0"	47 SPA. @ 9" = 35'-3"
Y7	7 SPA. @ 15" = 8'-9"	8 SPA. @ 9" = 6'-0"	18 SPA. @ 9" = 13'-6"	21 SPA. @ 9" = 15'-9"	15 SPA. @ 8" = 10'-0"	N/A
Y8	5'-3 ¹ / ₁₆ "	5'-1 ¹ / ₈ "	4'-4 ¹ / ₁₆ "	4'-4 ³ / ₈ "	4'-2 ¹ / ₄ "	4'-4 ⁵ / ₁₆ "
Y9	53 SPA. @ 15" = 66'-3"	25 SPA. @ 9" = 18'-6"	13 SPA. @ 9" = 9'-9"	29 SPA. @ 9" = 21'-9"	15 SPA. @ 8" = 10'-0"	80 SPA. @ 12" = 80'-0"
Y10	49 SPA. @ 10" = 40'-10"	40 SPA. @ 7" = 23'-4"	70 SPA. @ 7" = 40'-10"	62 SPA. @ 7" = 36'-2"	41 SPA. @ 6" = 20'-6"	41 SPA. @ 9" = 30'-9"
Y11	10 SPA. @ 15" = 12'-6"	46 SPA. @ 9" = 34'-6"	40 SPA. @ 9" = 30'-0"	27 SPA. @ 9" = 20'-3"	77 SPA. @ 8" = 51'-4"	18 SPA. @ 12" = 18'-0"
Y12	N/A	31 SPA. @ 7" = 18'-1"	37 SPA. @ 7" = 21'-7"	33 SPA. @ 7" = 19'-3"	37 SPA. @ 6" = 18'-6"	N/A
Y13	N/A	32 SPA. @ 9" = 24'-0"	34 SPA. @ 9" = 25'-6"	35 SPA. @ 9" = 26'-3"	37 SPA. @ 8" = 24'-8"	N/A
Y14	5'-3 ¹ / ₁₆ "	4'-3 ¹ / ₁₆ "	4'-3 ⁹ / ₁₆ "	4'-1 ³ / ₄ "	3'-10 ¹ / ₁₆ "	3'-8 ¹ / ₈ "
Y15	34 SPA. @ 15" = 42'-6"	17 SPA. @ 9" = 12'-9"	44 SPA. @ 7" = 25'-8"	59 SPA. @ 7" = 34'-4"	47 SPA. @ 6" = 23'-6"	60 SPA. @ 12" = 60'-0"
Y16	16 SPA. @ 12" = 16'-0"	32 SPA. @ 7" = 18'-8"	40 SPA. @ 9" = 29'-5 ⁹ / ₁₆ "	36 SPA. @ 9" = 26'-8"	58 SPA. @ 8" = 38'-4 ⁵ / ₁₆ "	N/A
Y17	N/A	38 SPA. @ 9" = 28'-2 ¹ / ₂ "	N/A	N/A	N/A	N/A



DETAIL - STIFFENERS

NOTES:

- BEARING STIFFENERS SHALL HAVE THE BOTTOM EDGE MILLED TO BEAR. THE TOP EDGE SHALL BE A TIGHT FIT.

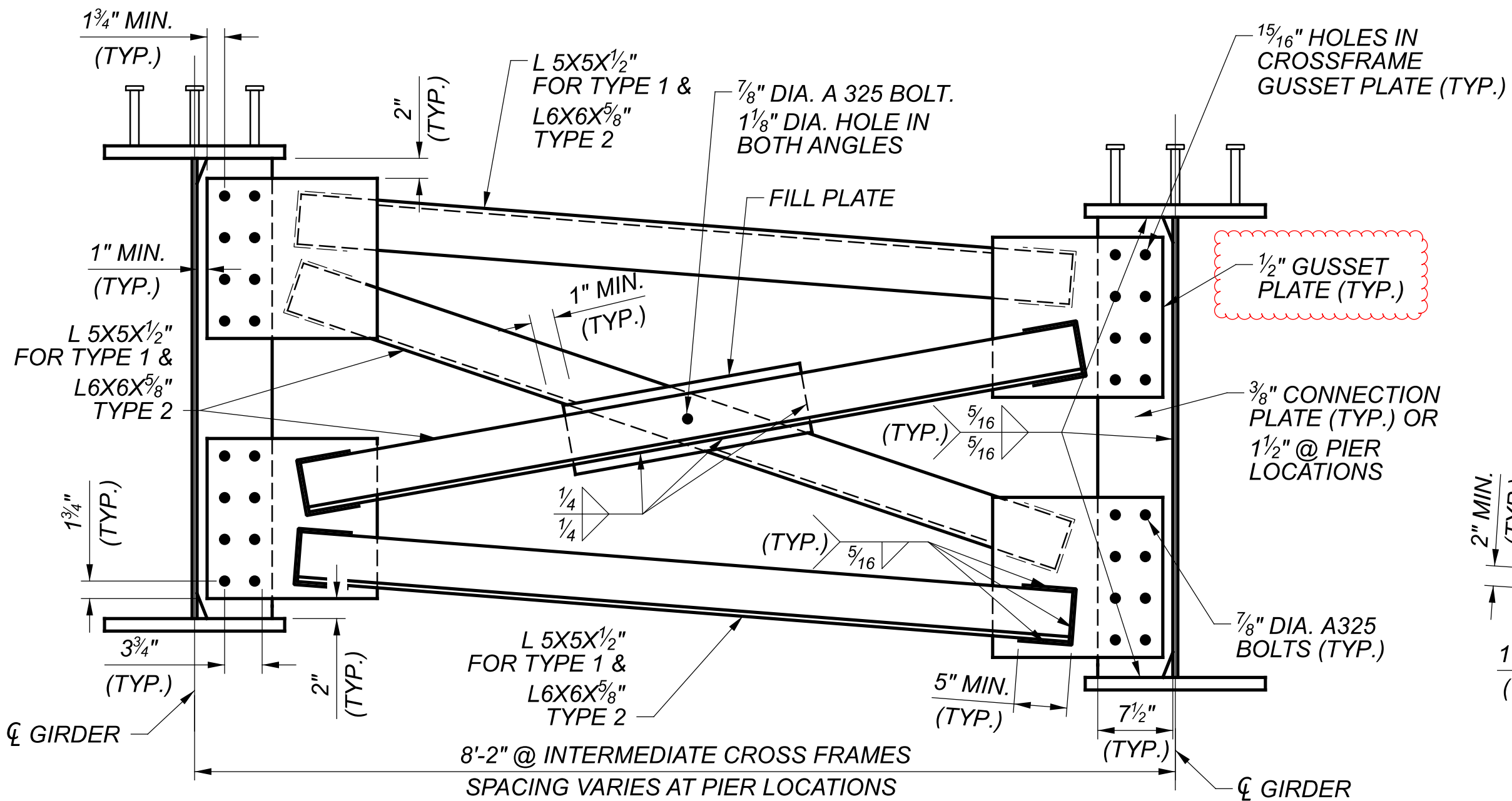
NOTES:

- ALL FLANGE AND WEB PLATES SHALL BE DESIGNED "CVN".
- WHERE A SHAPE OR PLATE IS DESIGNATED "CVN", FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01.
- FOR CAMBER AND DEFLECTIONS, SEE SHEET [34/51].
- FOR ADDITIONAL BOLTED FIELD SPLICE DETAILS AND STRUCTURAL STEEL NOTES, SEE SHEET [35/51].
- FOR BEARING DETAILS, SEE SHEET [37/51] AND [38/51].
- CP - INDICATES COMPLETE JOINT PENETRATION WELD.
- CS - INDICATES BUTT WELD SUBJECT TO COMPRESSIVE STRESSES ONLY.

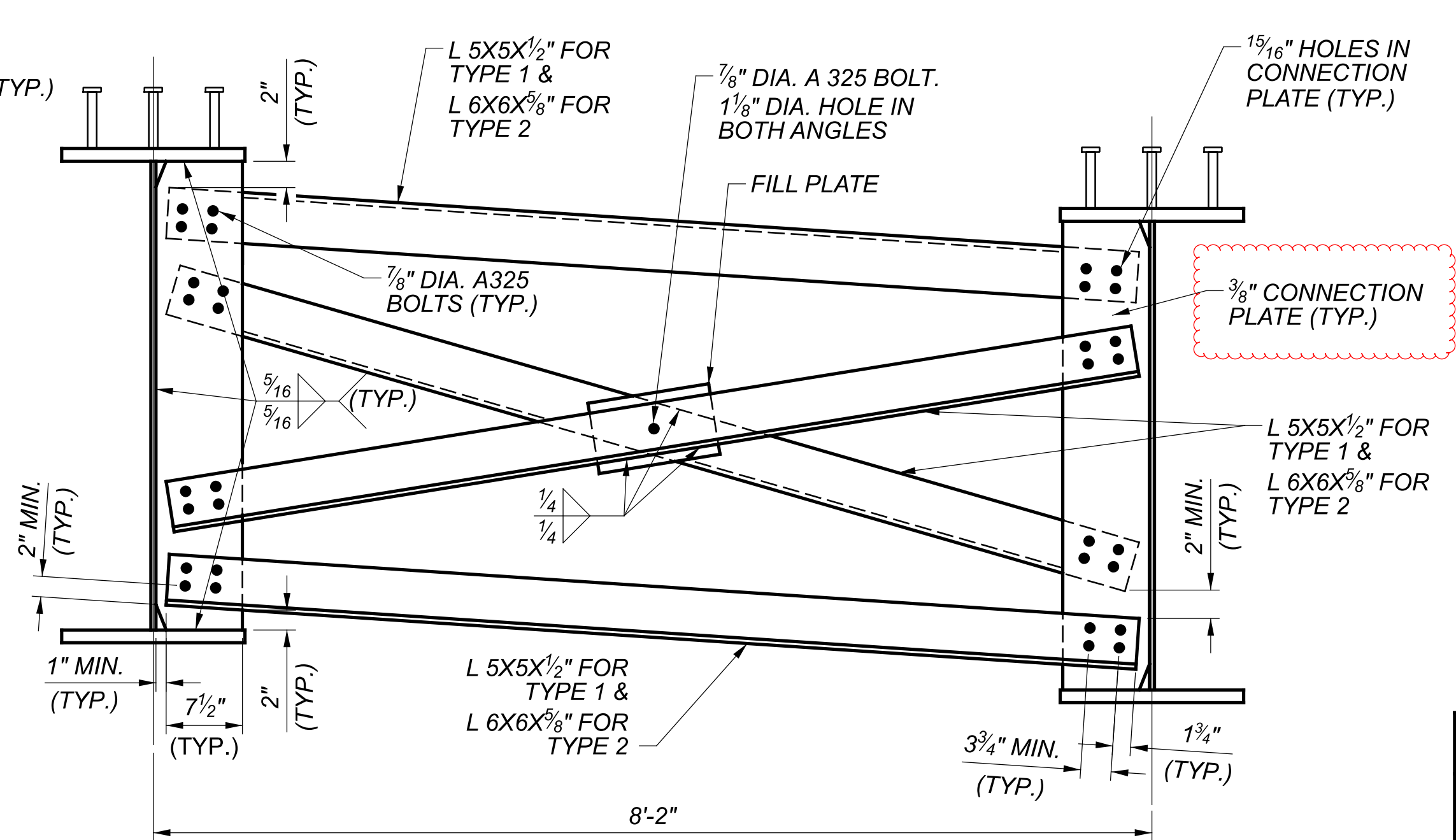
TABLE OF DIMENSIONS						
DIMENSION	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6
"A"	74'-2 ¹ / ₁₆ "	74'-6 ⁵ / ₈ "	74'-10 ⁵ / ₈ "	75'-2 ¹ / ₁₆ "	75'-7 ¹ / ₁₆ "	75'-11 ¹ / ₂ "
"B"	91'-9 ¹ / ₁₆ "	92'-3 ¹ / ₁₆ "	92'-9 ⁵ / ₁₆ "	93'-3 ³ / ₄ "	93'-10 ³ / ₈ "	94'-5 ¹ / ₄ "
"C"	116'-7 ³ / ₈ "	117'-5 ¹ / ₁₆ "	118'-3 ¹ / ₁₆ "	119'-2 ¹ / ₁₆ "	120'-2 ¹ / ₁₆ "	121'-1 ⁷ / ₈ "
"D"	92'-9 ¹ / ₁₆ "	93'-8 ⁹ / ₁₆ "	94'-7 ⁹ / ₁₆ "	95'-7 ¹ / ₄ "	96'-7 ¹ / ₁₆ "	97'-8 ¹ / ₁₆ "
"E"	18'-6 ³ / ₄ "	18'-7 ¹ / ₁₆ "	18'-8 ³ / ₄ "	18'-9 ¹ / ₁₆ "	18'-10 ³ / ₄ "	18'-11 ⁷ / ₈ "
"F"	18'-4 ¹ / ₂ "	18'-5 ⁵ / ₈ "	18'-6 ³ / ₄ "	18'-7 ⁵ / ₈ "	18'-9 ¹ / ₁₆ "	18'-11 ⁵ / ₁₆ "
"G"	55'-0 ³ / ₈ "	55'-4"	55'-7 ⁵ / ₈ "	55'-11 ⁵ / ₁₆ "	55'-1 ⁵ / ₁₆ "	56'-7 ⁵ / ₁₆ "
"H"	18'-4 ³ / ₁₆ "	18'-5 ¹ / ₁₆ "	18'-6 ¹ / ₁₆ "	18'-7 ¹ / ₁₆ "	20'-0"	18'-10 ⁵ / ₈ "
"I"	23'-4 ¹ / ₂ "	26'-0 ¹ / ₄ "	23'-8 ¹ / ₈ "	23'-9 ¹ / ₁₆ "	24'-0"	24'-2 ¹ / ₁₆ "
"J"	69'-1"	67'-1 ⁵ / ₁₆ "	70'-1 ¹ / ₁₆ "	70'-8 ¹ / ₁₆ "	71'-3 ⁵ / ₈ "	71'-11 ¹ / ₁₆ "
"K"	23'-8 ¹ / ₈ "	23'-10 ¹ / ₈ "	24'-1"	24'-3 ³ / ₁₆ "	24'-5 ¹ / ₁₆ "	24'-7 ¹ / ₄ "
"L"	31'-7 ¹ / ₁₆ "	31'-11 ¹ / ₄ "	31'-4 ⁵ / ₁₆ "	32'-6 ⁵ / ₁₆ "	32'-10 ¹ / ₁₆ "	35'-9 ¹ / ₄ "
"M"	61'-2"	61'-9 ⁵ / ₁₆ "	57'-3 ⁵ / ₁₆ "	63'-0 ¹ / ₁₆ "	63'-9 ³ / ₈ "	61'-10 ¹ / ₁₆ "

TABLE OF TENSION (T) & COMPRESSION (C) AREAS						
DIMENSION	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6
X1	51'-11 ¹ / ₂ "	52'-2 ¹ / ₄ "	52'-5 ¹ / ₁₆ "	52'-8"	52'-11"	53'-2 ¹ / ₁₆ "
X2	22'-3 ³ / ₁₆ "	22'-4 ³ / ₈ "	22'-5 ⁵ / ₁₆ "	22'-6 ¹ / ₁₆ "	22'-8 ¹ / ₁₆ "	22'-9 ¹ / ₁₆ "
X3	27'-6 ³ / ₈ "	27'-8 ¹ / ₈ "	27'-10 ¹ / ₁₆ "	27'-11 ¹ / ₁₆ "	28'-2"	28'-4"
X4	27'-6 ⁵ / ₁₆ "	27'-8 ¹ / ₈ "	27'-10"	27'-11 ¹ / ₁₆ "	28'-1 ¹ / ₁₆ "	28'-4"
X5	36'-8 ³ / ₈ "	36'-10 ¹ / ₁₆ "	37'-1 ⁵ / ₁₆ "	37'-3 ¹ / ₈ "	37'-6 ¹ / ₂ "	37'-9 ¹ / ₄ "
X6	23'-3 ¹ / ₈ "	23'-5 ¹ / ₁₆ "	23'-8"	23'-10 ¹ / ₈ "	24'-0 ¹ / ₁₆ "	24'-2 ¹ / ₁₆ "
X7	69'-11 ⁵ / ₈ "	70'-5 ¹ / ₁₆ "	70'-11 ¹ / ₁₆ "	71'-6 ¹ / ₁₆ "	72'-1 ¹ / ₄ "	72'-8 ¹ / ₁₆ "
X8	23'-3 ¹ / ₈ "	23'-5 ¹ / ₈ "	23'-8"	23'-10 ³ / ₁₆ "	24'-0 ³ / ₈ "	24'-2 ³ / ₄ "
X9	37'-1 ⁵ / ₈ "	37'-5 ¹ / ₈ "	37'-10 ¹ / ₈ "	38'-2 ¹ / ₈ "	38'-7 ¹ / ₈ "	39'-0 ¹ / ₈ "
X10	55'-8 ⁵ / ₁₆ "	56'-2 ¹ / ₁₆ "	56'-9 ³ / ₈ "	57'-4 ³ / ₈ "	57'-11 ³ / ₁₆ "	58'-7 ⁵ / ₁₆ "

TABLE OF FIELD SPLICE LOCATIONS						
SPLICE	GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6
S1	18'-4 ¹ / ₂ "	18'-5 ⁵ / ₈ "	18'-6 ³ / ₄ "	18'-7 ¹ / ₈ "	18'-9 ¹ / ₁₆ "	18'-10 ¹ / ₁₆ "
S2A	23'-4 ¹ / ₂ "	-	23'-8 ¹ / ₈ "	23'-9 ¹ / ₁₆ "	24'-0"	24'-2 ¹ / ₁₆ "
S2B	-	26'-0 ¹ / ₄ "	-	-	-	-
S3A	31'-7 ¹ / ₁₆ "	31'-11 ¹ / ₄ "	-	32'-6 ⁵ / ₁₆ "	32'-10 ¹ / ₁₆ "	-
S3B	-	-	-	-	-	35'-9 ³ / ₄ "
S3C	-	-	37'-4 ⁵ / ₁₆ "	-	-	-

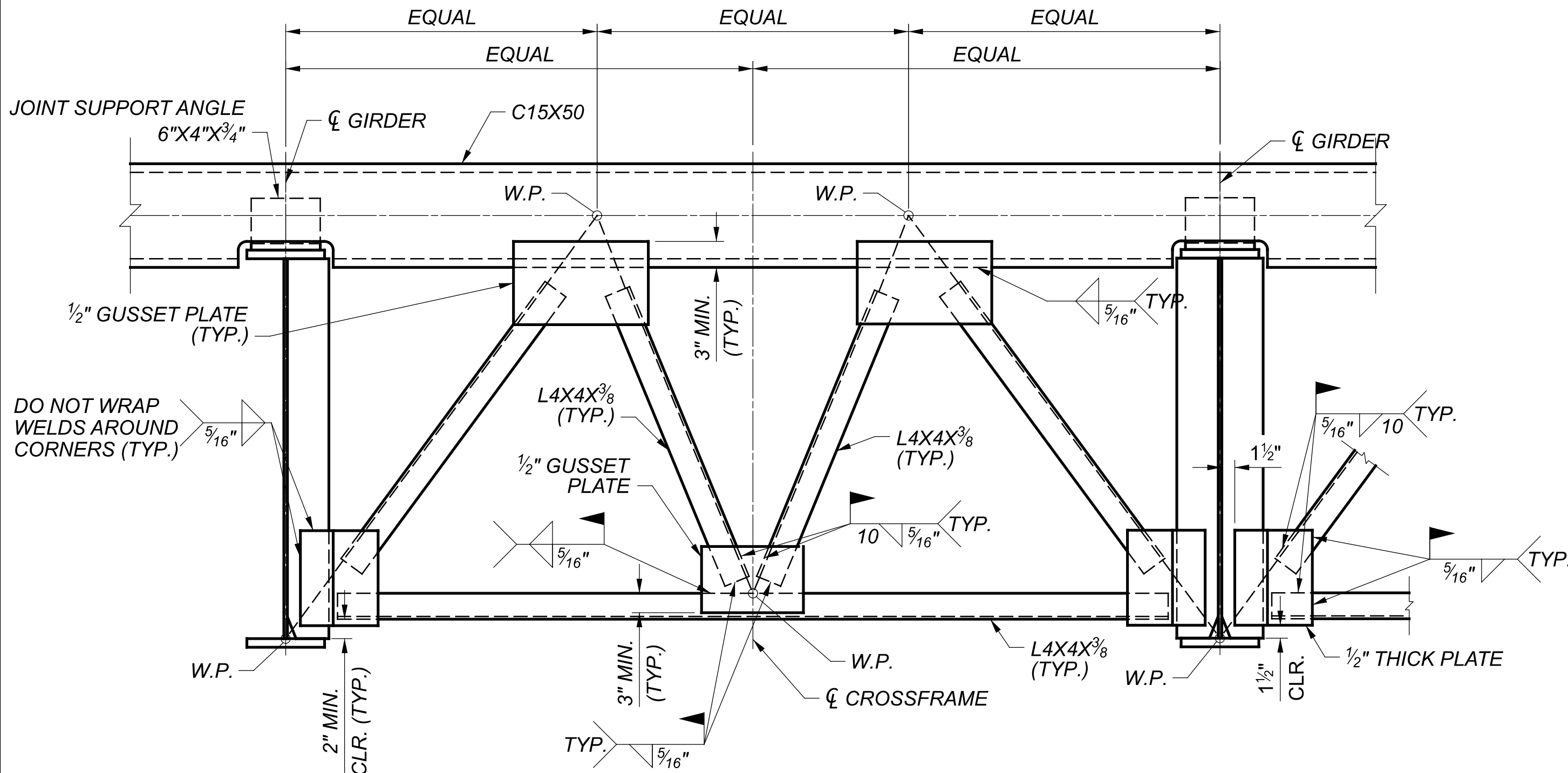


TYPE A PIER AND INTERMEDIATE CROSS FRAME DETAIL
(PIER CAP AND BEARING NOT SHOWN FOR CLARITY)



TYPE C INTERMEDIATE CROSS FRAME DETAIL

LOCATION	BEARING STIFFENER PLATE	
	WIDTH	THICKNESS
R.A.	7 1/2"	5/8"
P1	7 1/2"	1 1/2"
P2	7 1/2"	1 1/2"
P3	7 1/2"	1 1/2"
F.A.	7 1/2"	5/8"



DETAIL - PROPOSED ENDFRAME
(NOT TO SCALE)

STANDARD CONSTRUCTION DRAWINGS:

REFER TO THE FOLLOWING STANDARD CONSTRUCTION DRAWINGS FOR DETAILS NOT SHOWN:

GSD-1-19

SHEET REFERENCES:

- FOR FRAMING PLAN, SEE SHEET [\[32/51\]](#).
- FOR GIRDER ELEVATION AND TABLES AND BEARING STIFFENER DETAILS, SEE SHEET [\[33/51\]](#).
- FOR TRANSVERSE SECTION AND ADDITIONAL NOTES AND DETAILS, SEE SHEET [\[31/51\]](#).
- FOR STRUCTURAL STEEL NOTES, SEE SHEETS [\[33/51\]](#) AND [\[35/51\]](#).

NOTES:

- ALL CROSSFRAME MATERIAL SHALL BE A709 GRADE 50.
- HIGH STRENGTH BOLTS SHALL BE 7/8" DIAMETER A325 BOLTS, WITH THREADS EXCLUDED FROM THE SHEAR PLANE UNLESS OTHERWISE NOTED.
- ALL CROSSFRAME AND ENDFRAME MEMBERS, CONNECTION STIFFENERS AND GUSSET PLATES SHALL BE DESIGNATED AS CVN.