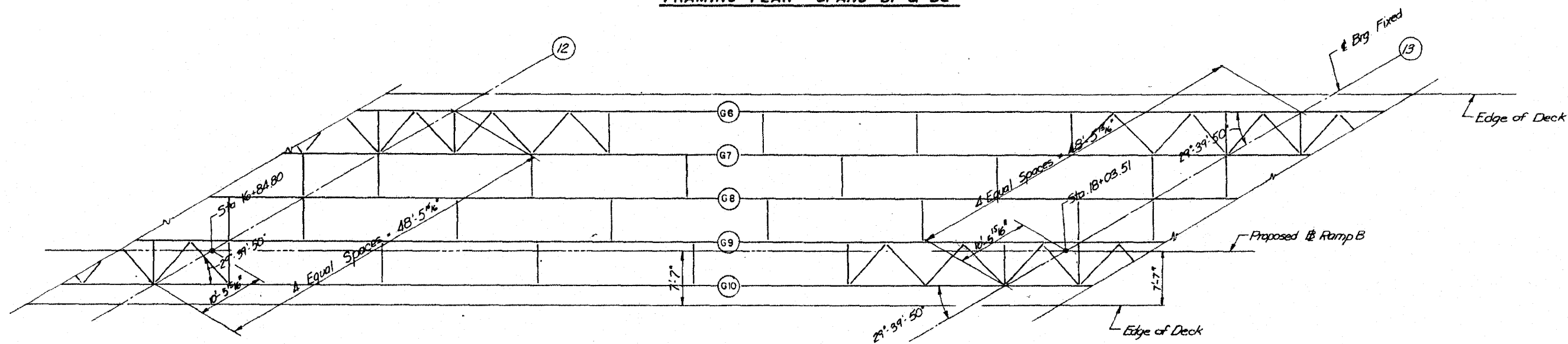
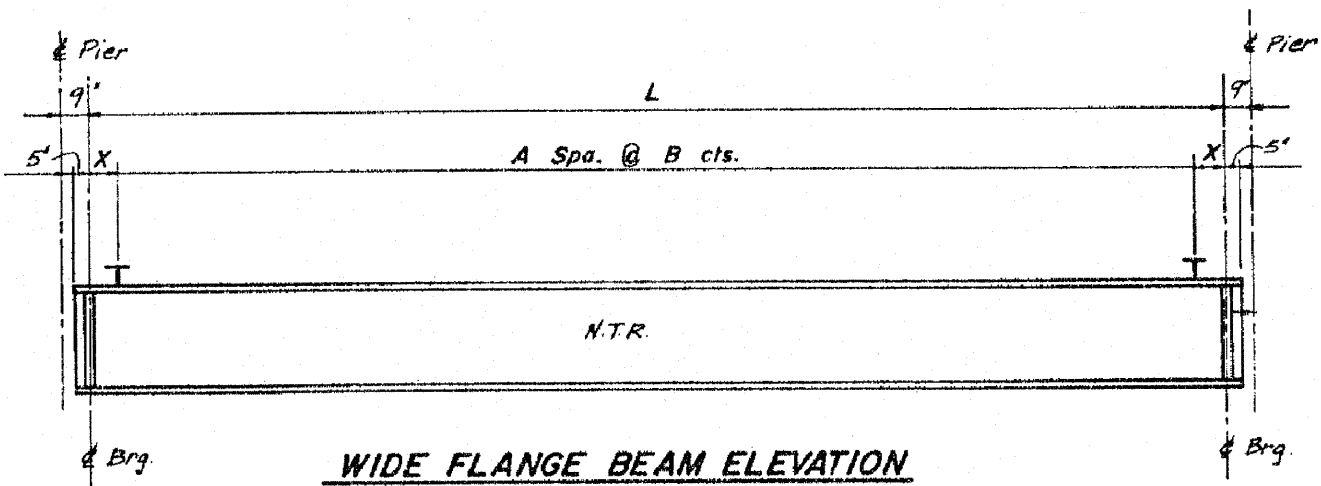


FRAMING PLAN - SPANS B1 & B2



FRAMING PLAN - SPAN B3

FILE NAME =	USER NAME = rgeil	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS B1 TO B3 - LOCATION 6 STRUCTURE NO. 016-1140		F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 103
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - JMH	REVISED -		SCALE: NTS	SHEET NO. 3 OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 60N01 ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -								



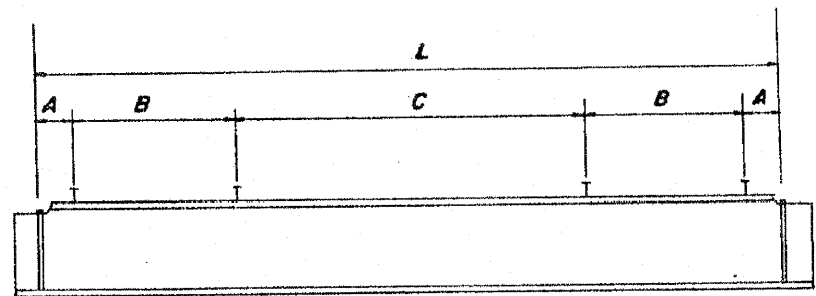
WIDE FLANGE BEAM ELEVATION

WIDE FLANGE BEAMS

SPAN	BEAM	BEAM SIZE	L (E BRG. TO E BRG.)
B1	GB-1	W36x280	88'-0 5/8"
B1	GB-2	W36x150	56'-7"

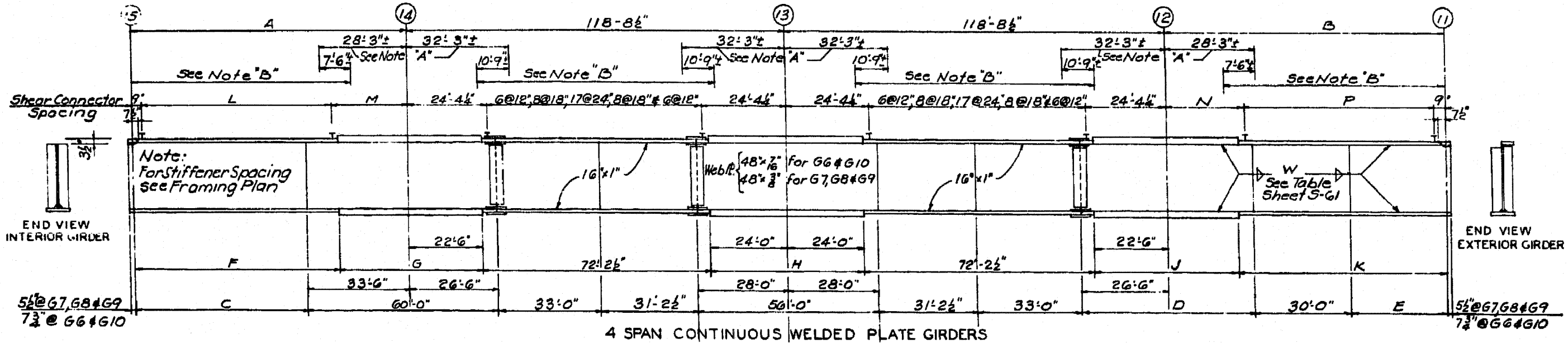
GIRDER SCHEDULE (WF ONLY)

MARK	SECTION	COVER PLATES	
		SIZE	LENGTH
G2	36WF230	15"x8"	54'-6"
G3	36WF170	11"x4"	54'-0"
G4	36WF135	11"x4"	51'-6"
G5	36WF150	11"x2"	38'-0"
G11	36WF150	11"x2"	40'-0"
G12	36WF150	11"x9/16"	47'-6"
G13	36WF170	11"x11/16"	53'-0"
G14	36WF182	11"x1"	58'-6"
G15	36WF260	15"x16"	59'-6"
G16	36WF170	11"x2"	45'-6"
G17, G18 & G19	36WF160	11"x9/16"	49'-0"
G20	36WF170	11"x8"	52'-6"
G21	36WF170	11"x2"	43'-0"
G22	36WF150	11"x9/16"	48'-0"
G23	36WF160	11"x9/16"	49'-0"
G24	36WF160	11"x9/16"	49'-0"
G25	36WF170	11"x1"	52'-6"



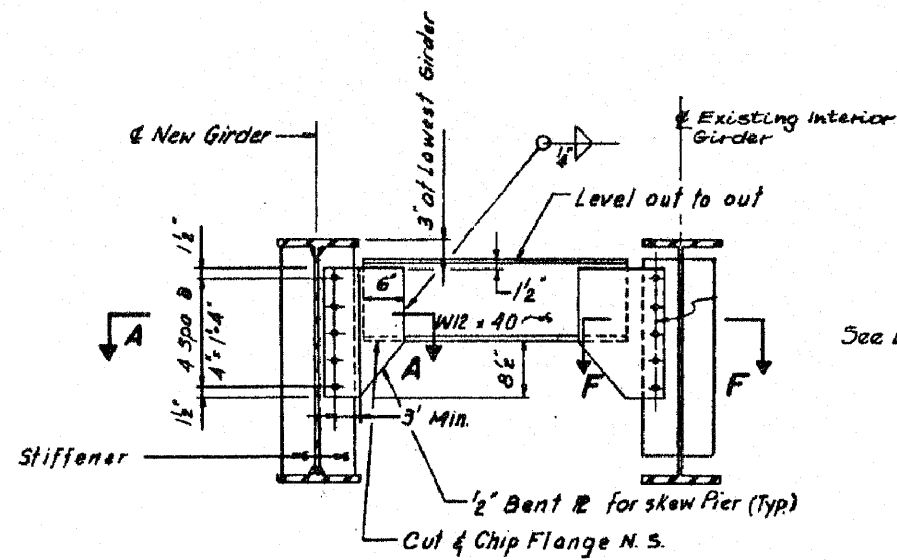
EXISTING GIRDERS - SIMPLE SPANS

SPAN	GIRDER	L	SPAN	GIRDER	L
	G2	74'-10"	B1	G16	68'-2 1/2"
	G3	71'-0"		G17	68'-9 1/2"
	G4	67'-2"		G18	69'-3 1/2"
	G5	59'-11 1/2"		G19	69'-10 3/8"
				G20	70'-4 1/2"
	G11	61'-2 1/4"		G21	66'-7 1/2"
B6	G12	67'-2 1/4"	B8	G22	67'-7 1/2"
	G13	75'-2 1/4"		G23	68'-7 1/2"
	G14	79'-2 1/4"		G24	69'-7 1/2"
	G15	85'-2 1/4"		G25	70'-7 1/2"

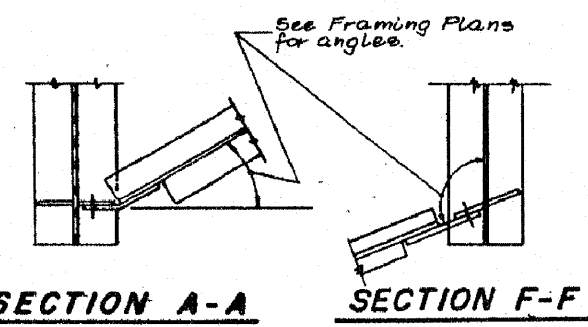


4 SPAN CONTINUOUS WELDED PLATE GIRDERS

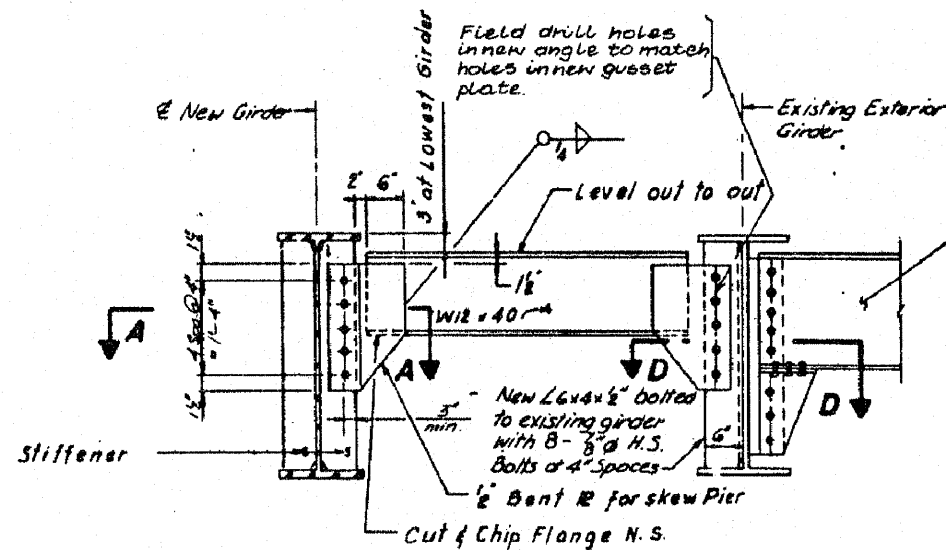
GIRDER NO	TABLE FOR 4 SPAN CONTINUOUS WELDED PLATE GIRDERS															
	A	B	C	D	E	(TOP)	(BOTTOM)	(TOP & BOTT)	(TOP & BOTT)	(TOP & BOTT)	(TOP)	(BOTTOM)	(FROM LINE 15)	M	N	(FROM LINE 11)
G 6	79'-3 1/2"	97'-4 3/8"	45'-9 1/2"	52'-0"	41'-10 1/2"	16"x1 1/2"x63'-3 1/2"	16"x1 1/2"x63'-3 1/2"	16"x1 1/2"x38'-6"	16"x2"x48'-0"	16"x2"x42'-6"	16"x1 1/2"x77'-4 1/2"	16"x1 1/2"x77'-4 1/2"	7@12", 6@18", 14@24", 6@18", 4@12"	20'-0 1/2"	24'-7 1/2"	9@12", 6@18", 19@24", 6@18", 4@12"
G 7	83'-9 1/2"	92'-10 3/8"	50'-3 1/2"	49'-6"	39'-10 3/8"	16"x1 1/2"x66'-9 1/2"	16"x1 1/2"x66'-9 1/2"	16"x1 1/2"x39'-6"	16"x1 1/2"x48'-0"	16"x1 1/2"x41'-6"	16"x1 1/2"x73'-10 1/2"	16"x1 1/2"x73'-10 1/2"	7@12", 6@18", 16@24", 6@18", 4@12"	21'-0 1/2"	24'-1 1/2"	9@12", 6@18", 17@24", 6@18", 4@12"
G 8	88'-3 1/2"	88'-3 1/2"	54'-9 1/2"	48'-6"	36'-3 1/2"	16"x1 1/2"x70'-3 1/2"	16"x1 1/2"x70'-3 1/2"	16"x1 1/2"x40'-6"	16"x1 1/2"x48'-0"	16"x1 1/2"x40'-6"	16"x1 1/2"x70'-3 1/2"	16"x1 1/2"x70'-3 1/2"	8@12", 6@18", 17@24", 6@18", 4@12"	21'-6 1/2"	21'-6 1/2"	8@12", 6@18", 17@24", 6@18", 4@12"
G 9	92'-10 1/2"	83'-9 1/2"	59'-4 3/8"	47'-6"	32'-9 1/2"	16"x1 1/2"x73'-10 1/2"	16"x1 1/2"x73'-10 1/2"	16"x1 1/2"x41'-6"	16"x1 1/2"x48'-0"	16"x1 1/2"x39'-6"	16"x1 1/2"x70'-3 1/2"	16"x1 1/2"x70'-3 1/2"	7@12", 6@18", 17@24", 6@18", 4@12"	21'-0 1/2"	21'-0 1/2"	7@12", 6@18", 16@24", 6@18", 5@12"
G 10	97'-4 3/8"	79'-3 1/2"	63'-10 3/8"	46'-6"	29'-3 1/2"	16"x1 1/2"x77'-4 1/2"	16"x1 1/2"x77'-4 1/2"	16"x2"x42'-6"	16"x2"x48'-0"	16"x1 1/2"x38'-6"	16"x1 1/2"x63'-3 1/2"	16"x1 1/2"x63'-3 1/2"	9@12", 6@18", 19@24", 6@18", 4@12"	24'-7 1/2"	20'-6 1/2"	7@12", 6@18", 14@24", 6@18", 15@12"



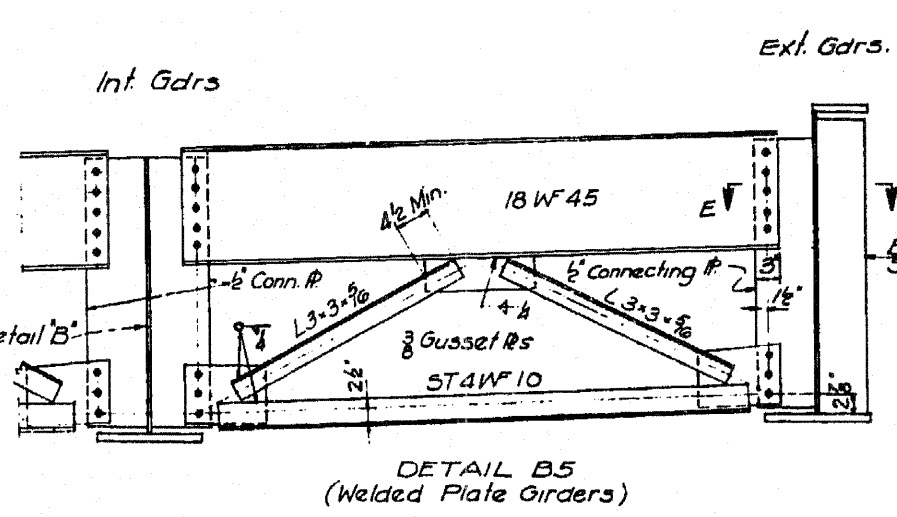
D-1
END DIAPHRAGM



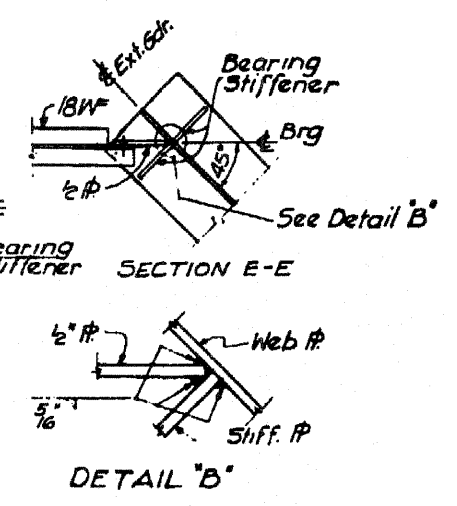
SECTION A-A **SECTION F-F**



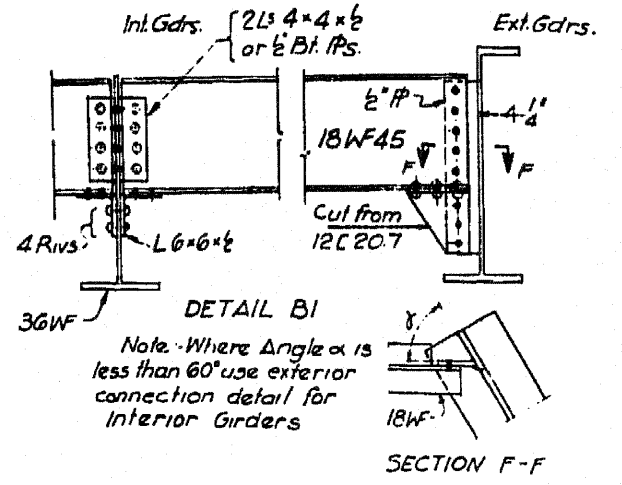
D-2
END DIAPHRAGM



DETAIL B5
(Welded Plate Girders)

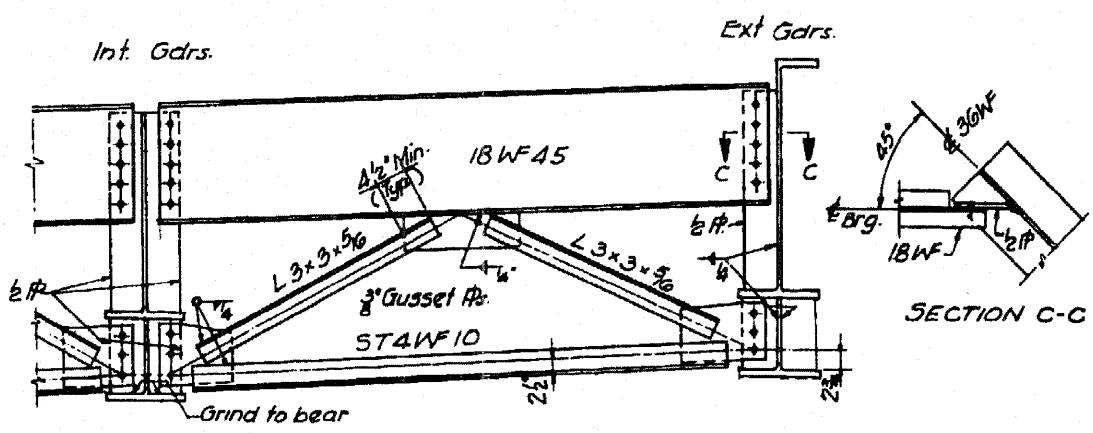


SECTION E-E
DETAIL B'

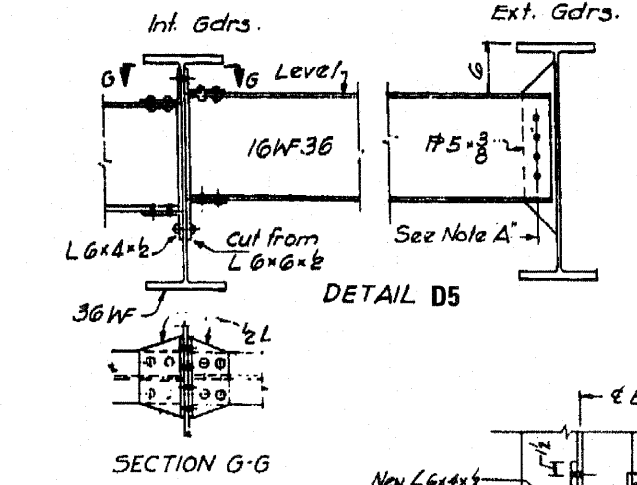


DETAIL B1

SECTION F-F

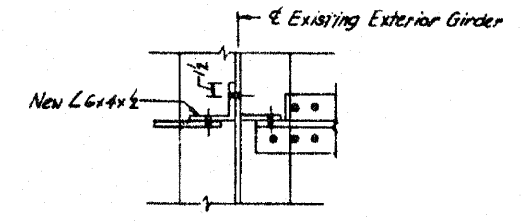


DETAIL B4

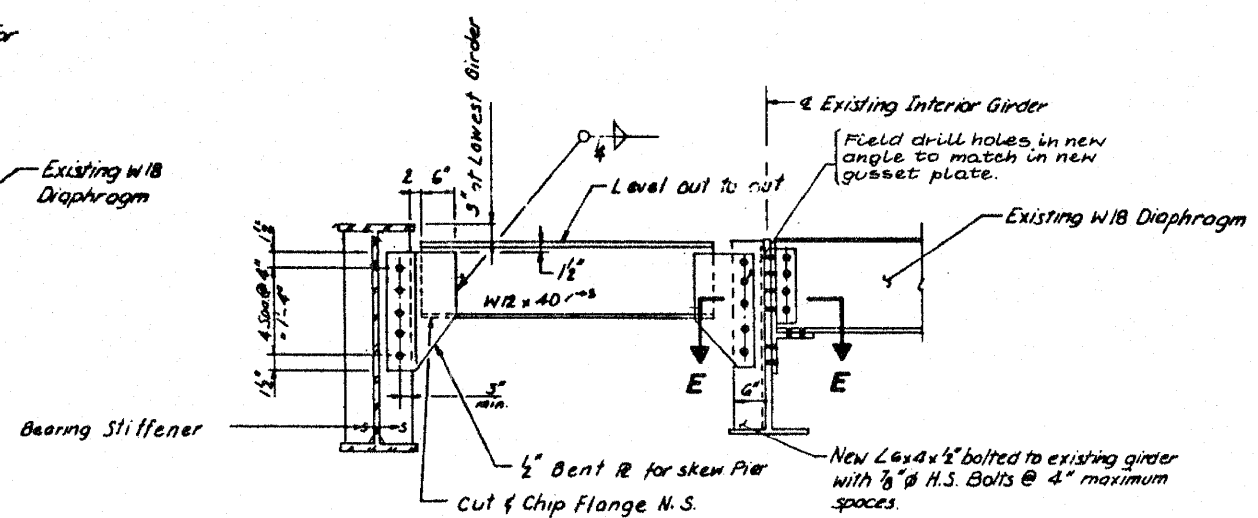


DETAIL D5

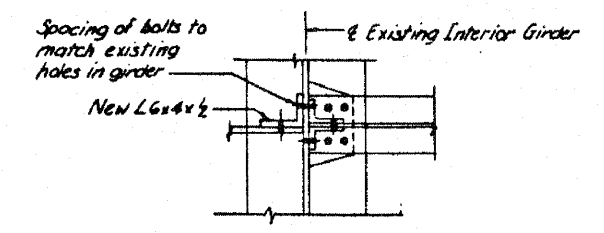
SECTION G-G



SECTION D-D



D-4
END DIAPHRAGM



SECTION E-E

FILE NAME =	USER NAME = rgo11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM & CROSS FRAME DETAILS - LOCATION 6 STRUCTURE NO. 016-1140	F.A.I. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 1:2000 / 1" =	DRAWN - AMR	REVISED -	94			2010-127-BP	COOK	160	106	
PLOT DATE = 3/29/2011	CHECKED - JMH	REVISED -	CONTRACT NO. 60N01							
DATE - MARCH, 2011	REVISOR -	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: NTS	SHEET NO. 6 OF 10 SHEETS	STA.	TO STA.			

TABLE OF DIMENSIONS - TYPE I ELASTOMERIC EXPANSION BEARINGS

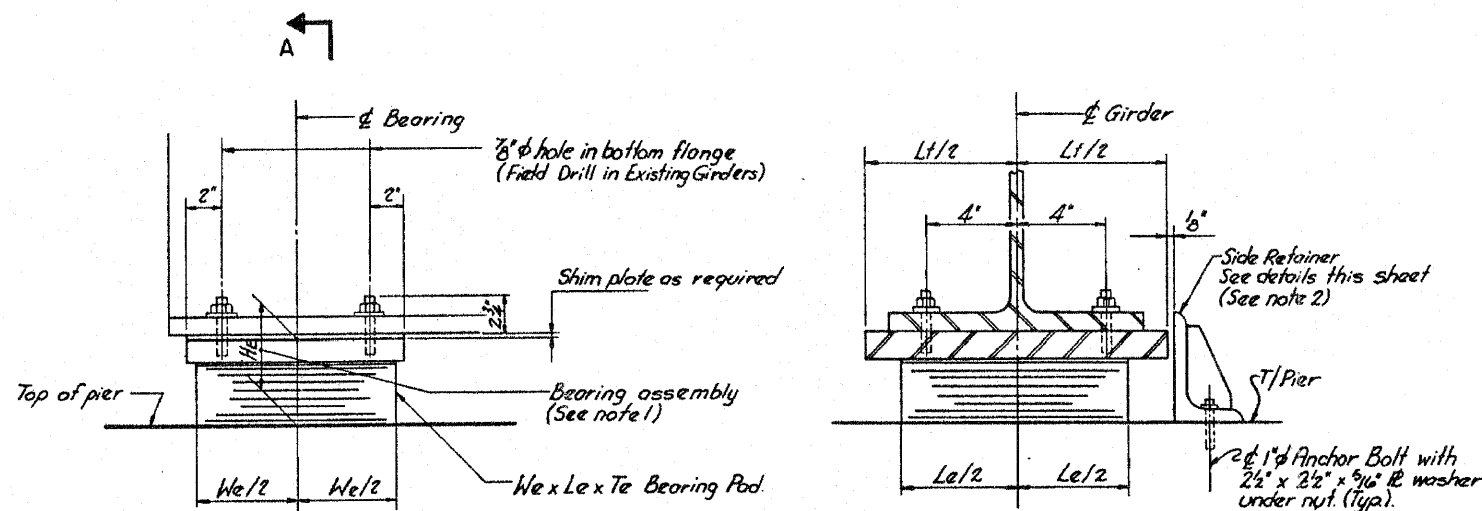
We	Le	Series	TP	Np	Ts	Ns	Te
7	12	c	3/8	5	3/32	4	2 1/4
11	16	b	1/2	5	1/8	4	3
11	16	d	1/2	7	1/8	6	4 1/4
9	12	a	3/8	5	3/32	4	2 1/4
9	12	b	3/8	7	3/32	6	3 3/16
10	14	c	7/16	5	1/8	4	2 11/16
10	14	b	7/16	6	1/8	5	3 1/4
10	14	d	7/16	8	1/8	7	4 3/8

Tp - denotes thickness of each elastomeric layer.
 Np - denotes number of elastomeric layers.
 Ts - denotes thickness of each steel plate.
 Ns - denotes number of steel plates.

TYPE I ELASTOMERIC EXPANSION BEARING SCHEDULE

STRUCTURE NO.	PIER LOCATION	GIRDER	We	Le	SERIES	TOP PLATE			Y	HE	NO. REQ'D	REMARKS	
						Tt	Wt	Lt					SLOPE %
016-1140	5(N)	GB1	9	12	b	1 1/2	10	17	3.0	6	4 11/16	1	N, E, ⊕
	16(N)	G16, G20	9	12	a	2	10	14	4.7	6	4 1/4	2	R, E
		G17-G19	9	12	a	2	10	14	4.7	6	4 1/4	3	R
016-1140	5(N)	GB2	9	12	b	1 1/2	10	14	3.0	6	4 11/16	1	N, E, ⊕

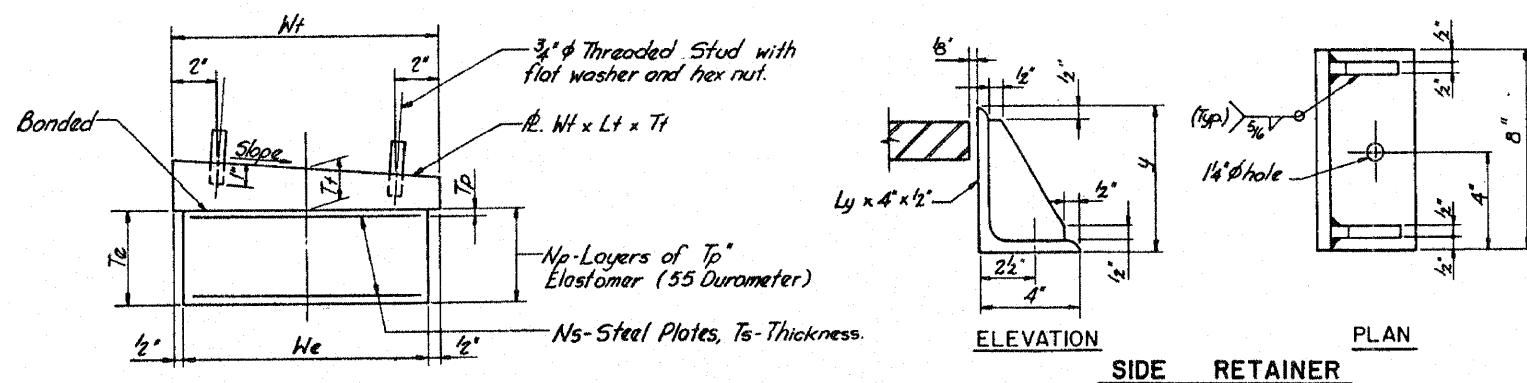
Remarks: N - New bearing for roadway widening.
 E - Exterior girder; side retainer required at inside face.
 R - Replacement bearing.
 ⊕ - Pier No 5 is from STRUCTURE No 016-1116.



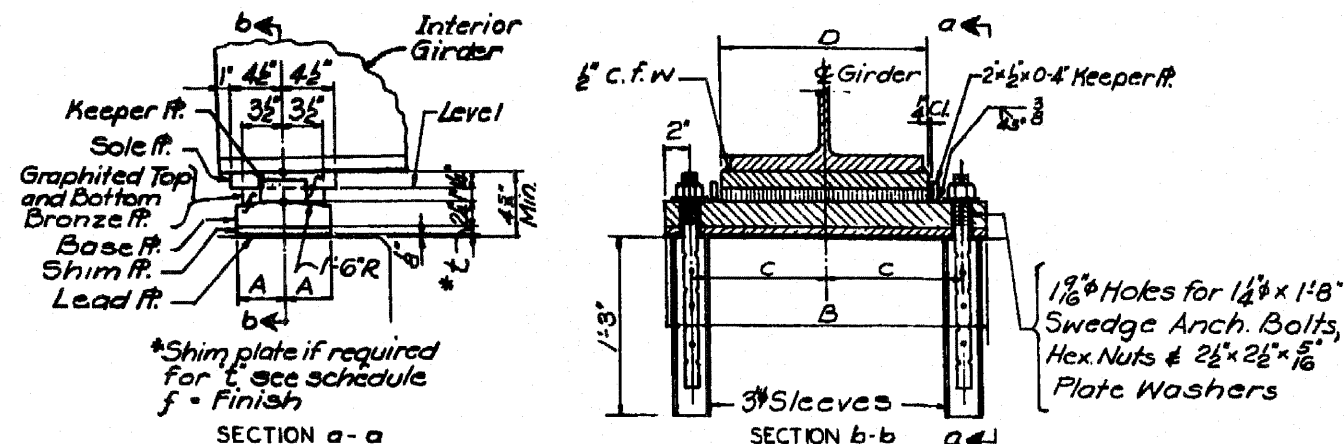
A

TYPICAL ELEVATION

TYPE I ELASTOMERIC EXPANSION BEARING



BEARING ASSEMBLY



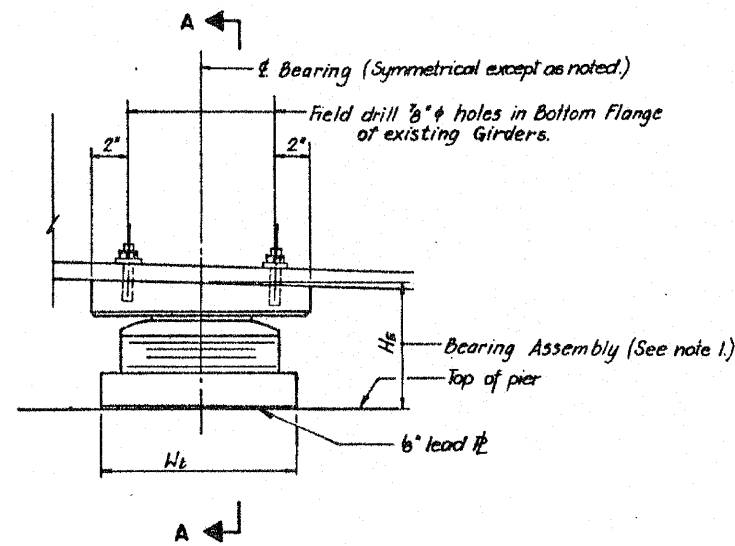
EXPANSION BEARING DETAILS
Scale 1/2\"/>

Notes:

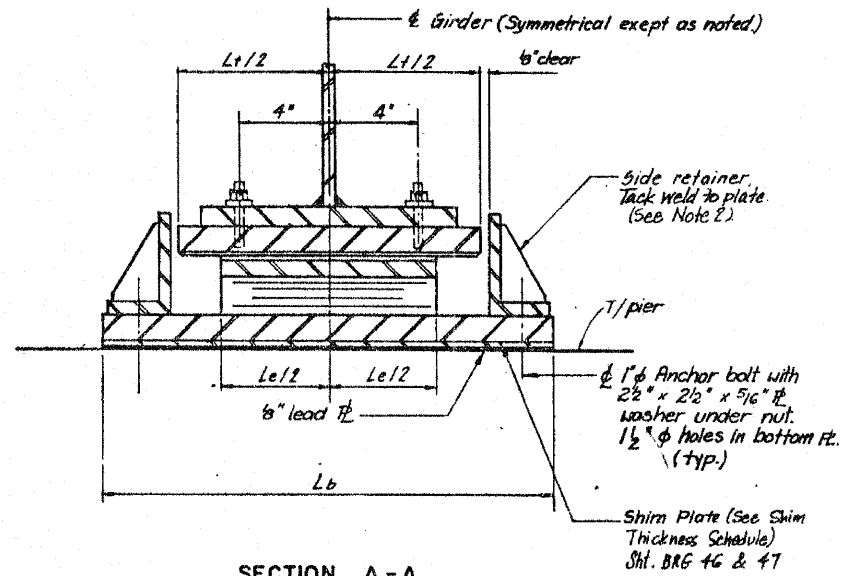
- Height of bearing assembly He, includes top plate and elastomeric pad and does not include shim plate.
- Provide side retainer of inside face of exterior girder.

MARK	DIMENSIONS				REMARKS
	A	B	C	D	
E1	4"	2'3"	11 1/2"	1'5 1/2"	Typical for 16" flange
E2	4"	1'10 1/2"	9 1/4"	1'1"	Typical for 12" flange

Note: Use typical bearings mark E1 and E2 unless otherwise noted.



TYPICAL ELEVATION



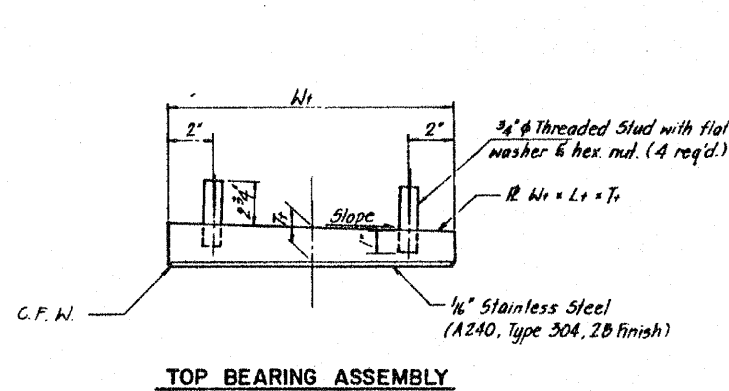
SECTION A-A

TYPE II ELASTOMERIC EXPANSION BEARING SCHEDULE

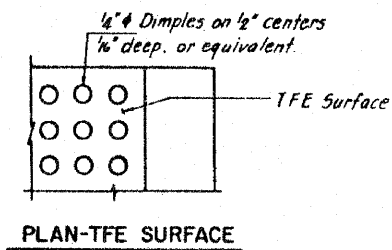
STRUCTURE NO.	PIER LOCATION	GIRDER	W _e	L _e	SERIES	TOP PLATE				BOTTOM PLATE			NO. REQ'D.	H _e	REMARKS
						T _t	W _t	L _t	SLOPE	T _b	W _b	L _b			
04-1140	11(N)	86-610	9	12	b	1/2	10 3/4	14	4.0	1	10	22 1/2	5	6 3/4	R

Remarks: R - Replacement Brg.

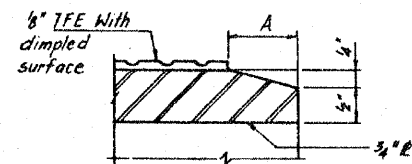
TYPE II TFE ELASTOMERIC EXPANSION BEARING



TOP BEARING ASSEMBLY



PLAN-TFE SURFACE

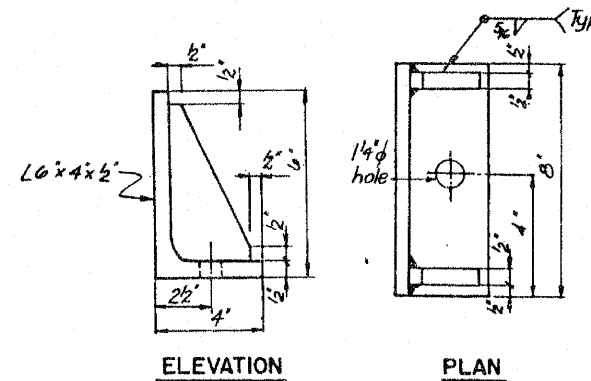


SECTION THRU TFE

Note: The $1/8$ " TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surface.

Bonding of $1/8$ " TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

W _e	6"	7"	9"	10"	11"	12"
A	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"



ELEVATION

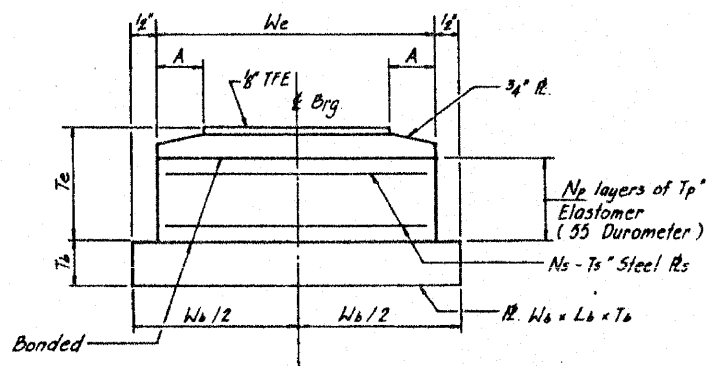
PLAN

SIDE RETAINER DETAILS

TABLE OF DIMENSIONS - TYPE II ELASTOMERIC EXPANSION BEARINGS

W _e	L _e	Series	T _p	N _p	T _s	N _s	T _e
9"	12"	b	3/8"	7"	3/32"	6	4 1/16"

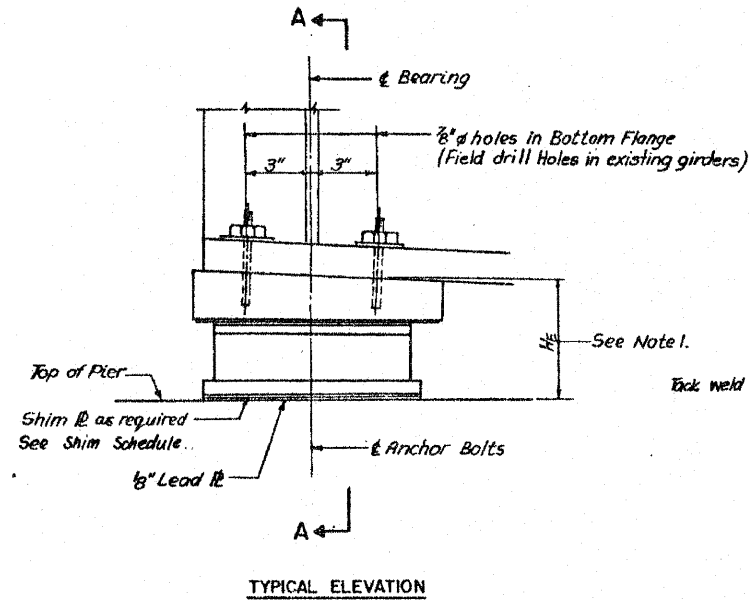
T_p - denotes thickness of each elastomeric layer
 N_p - denotes number of elastomeric layers
 T_s - denotes thickness of each steel plate
 N_s - denotes number of steel plates



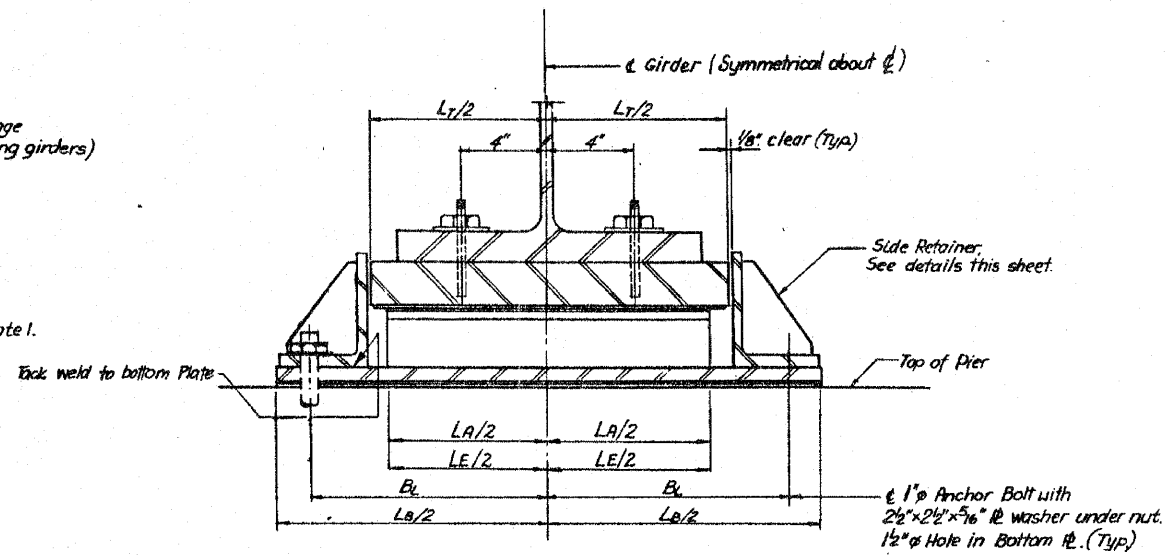
BOTTOM BEARING ASSEMBLY

NOTES:

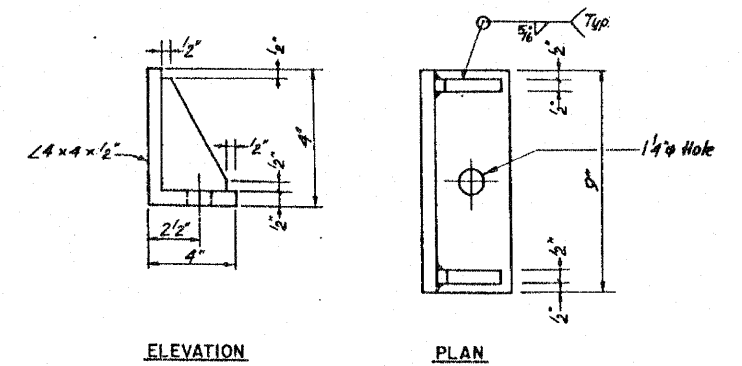
- Height of bearing assembly, H_e, includes top plate, elastomeric assy., bottom plate, and $1/8$ " lead plate. H_e does not include shim plate.
- Side Retainer details for bearings located on top of pier are shown on this sheet.
- See Shim thickness schedule for required shims.
- For Bearings without Bolster the Side Retainer shall be tack welded as shown after the girder and bearing assembly have been set into their final position.



TYPICAL ELEVATION



SECTION A-A

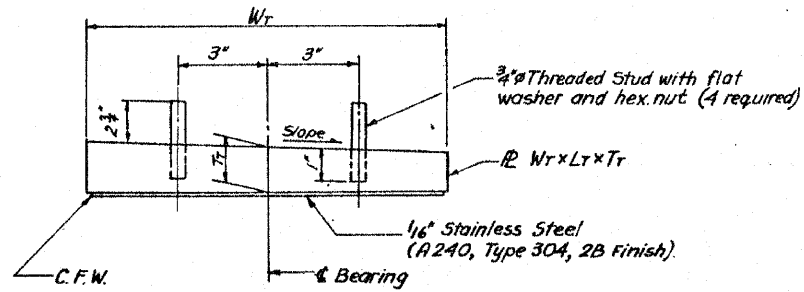


SIDE RETAINER DETAILS

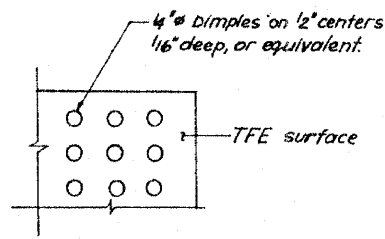
TYPE IV TFE ELASTOMERIC EXPANSION BEARING

TYPE IV ELASTOMERIC EXPANSION BEARING SCHEDULE

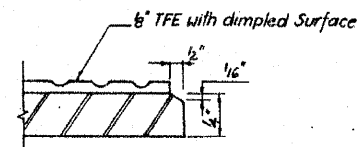
STRUCTURE NO.	PIER LOCATION	GIRDER NO.	NO. REQ'D	ELASTOMER				TOP PLATE				BOTTOM BEARING ASSEMBLY								REMARKS
				T _E	W _E	L _E	T _T	W _T	L _T	% SLOPE	T _A	W _A	L _A	T _B	W _B	L _B	L _{BL}			
016-1140	75(6)	46-610	5	1 3/4	9	12	1 1/2	11 1/4	16	4	9	12	7 1/2	10	24 1/2	10 5/8	1 1/4	R, G 1/16"		



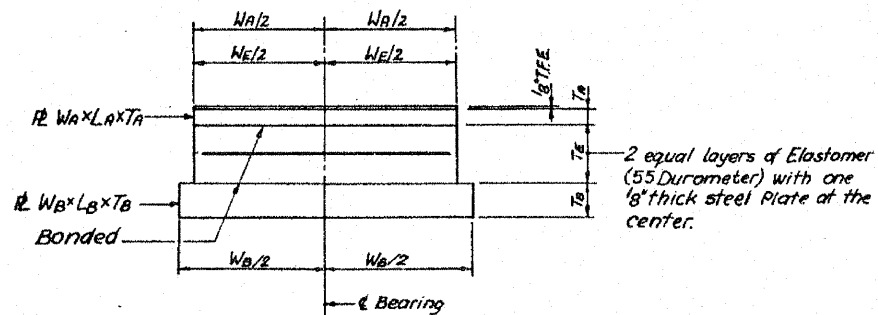
TOP BEARING ASSEMBLY



PLAN - TFE SURFACE



SECTION THRU TFE



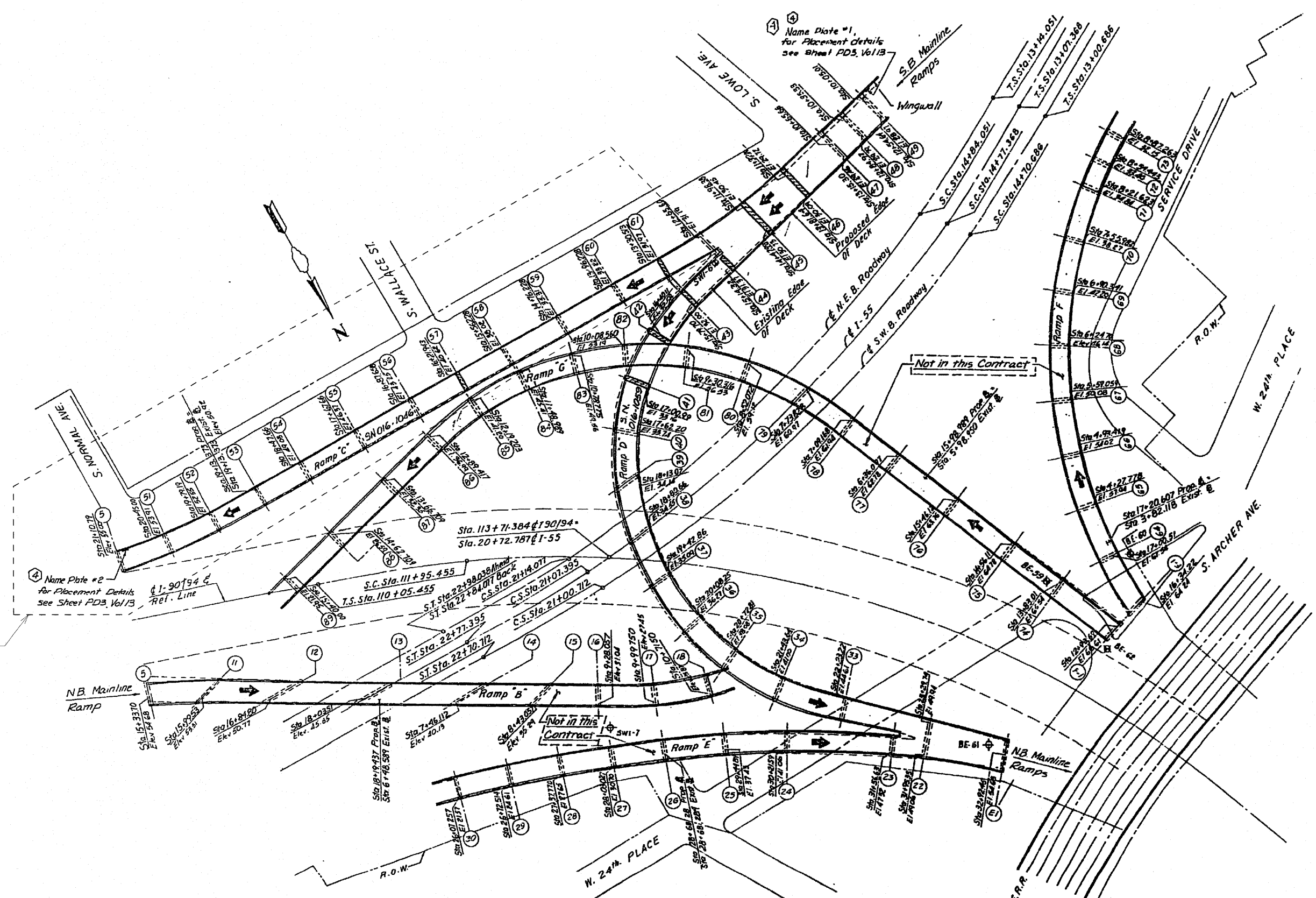
BOTTOM BEARING ASSEMBLY

Note:
 The 1/8" TFE sheet shall be bonded directly to the top Steel Plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surface.
 Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Remarks:
 R - Replacement Bearings.
 N - New Bearings for roadway widening.
 G - Grind concrete pier cap under bearing by amount shown.
 Ⓢ - Pier ⓈND is from STRUCTURE No. 016-1059

- Notes:**
- Height of Bearing Assembly, H_E, includes 1/8" lead Plate. (Does not include Shims if required)
 - For Bearings without Bolsters, the Side Retainer shall be tack welded as shown after the Girder and Bearing assembly have been set into their final position.

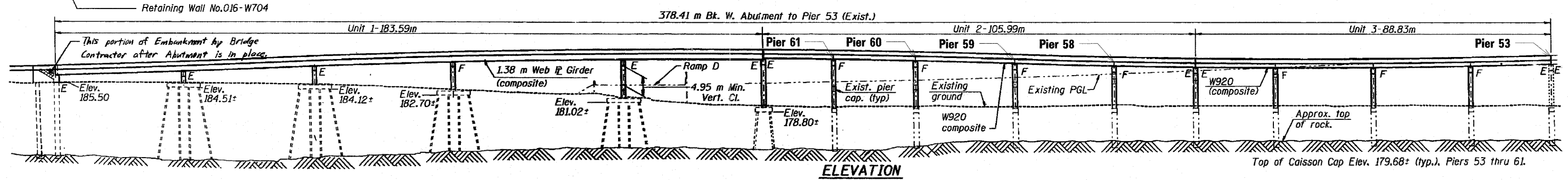
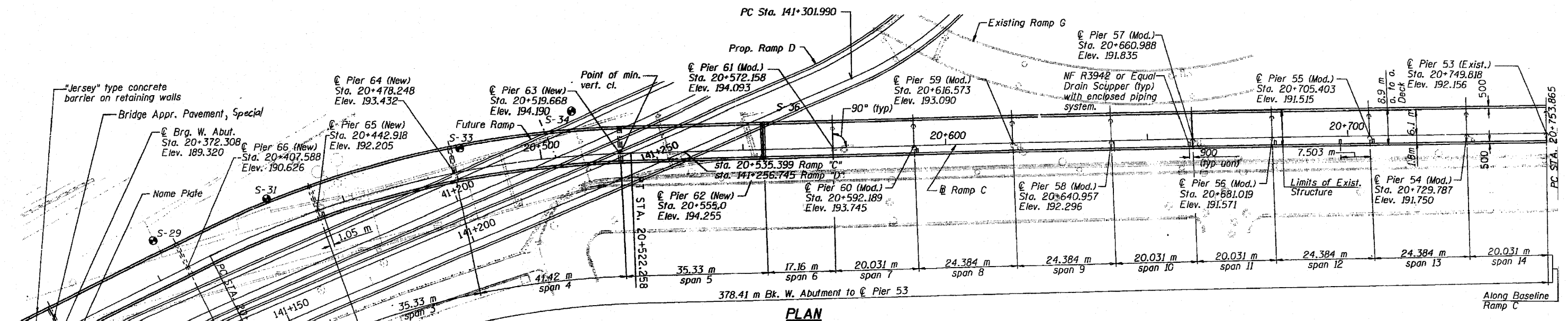
LOCATION 7



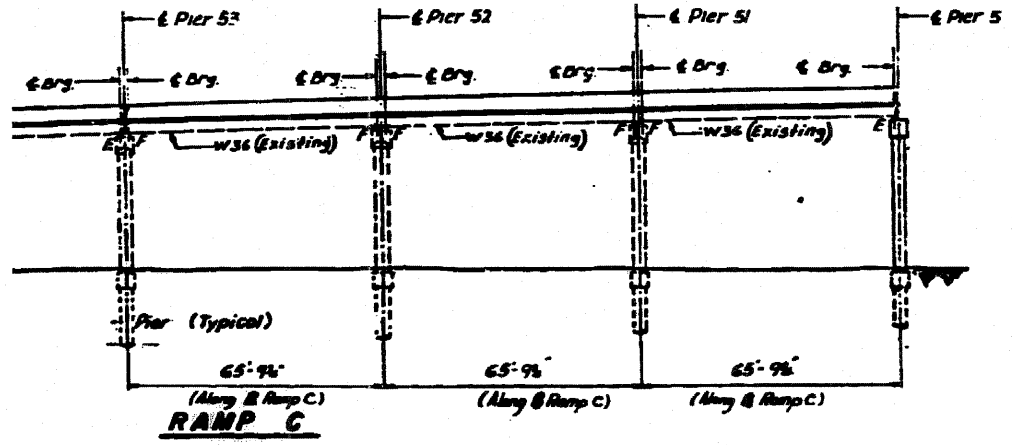
- LEGEND ②**
- ◆ Indicates Existing Soil Borings
 - New Pier Widening completed in Advance Work Contract
 - Indicates Pier Number
 - ▣ Pier Replacement or Widening

PLAN ②

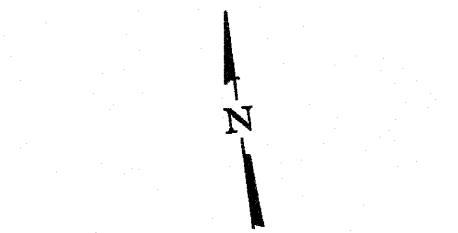
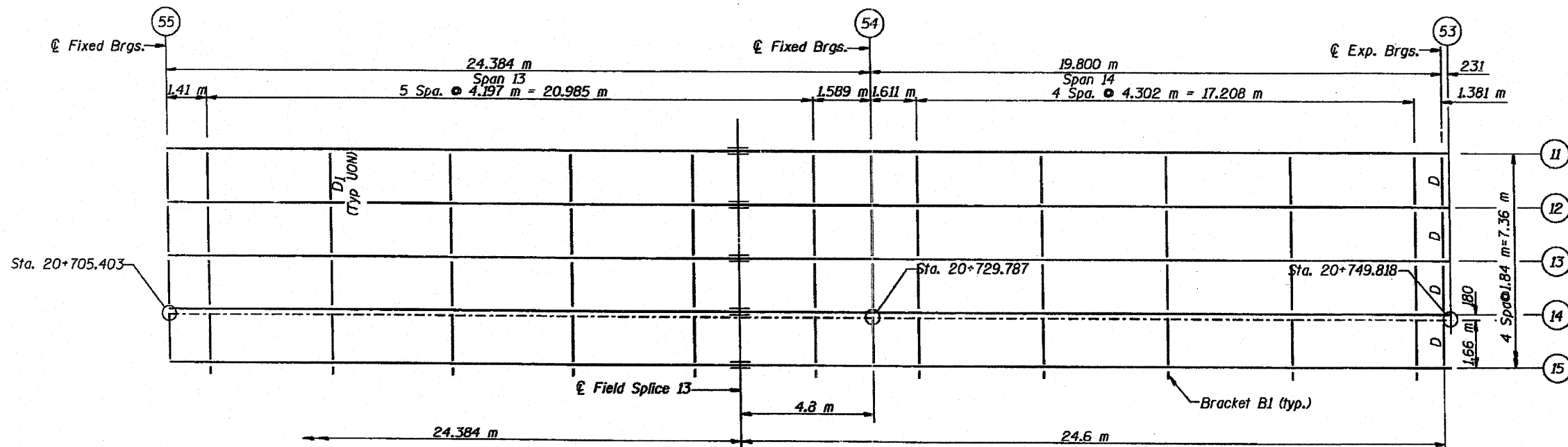
FILE NAME =	USER NAME = rgo11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN - LOCATION 7 STRUCTURE NO. 016-1046			F.A.I. RTE. = 94	SECTION = 2010-127-BP	COUNTY = COOK	TOTAL SHEETS = 160	SHEET NO. = 111
	PLOT SCALE = 1/8" = 1'-0"	DRAWN - AMR	REVISED -		SCALE: NTS	SHEET NO. 1 OF 7 SHEETS	STA. TO STA.	CONTRACT NO. 60N01				
PLOT DATE = 3/28/2011	CHECKED - JMH	DATE - MARCH, 2011	REVISED -	ILLINOIS FED. AID PROJECT								



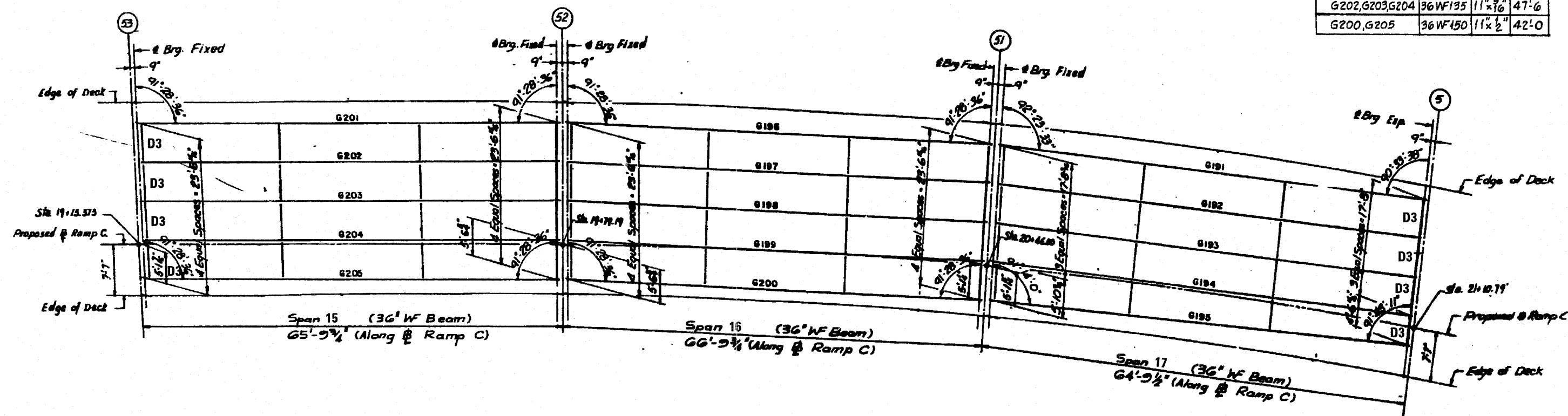
NOTES
All dimensions are in millimeters (mm) except as noted.

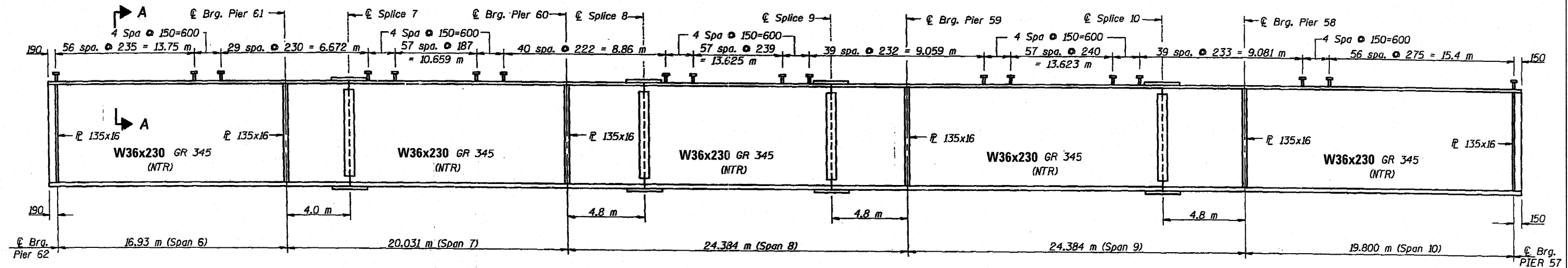


FILE NAME =	USER NAME = rga11	DESIGNED - AMR	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION - LOCATION 7 STRUCTURE NO. 016-1046			F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 112
	PLOT SCALE = 1:80000 1/4" IN.	DRAWN - AMR	REVISD -		SCALE: NTS	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	CONTRACT NO. 60N01				
	PLOT DATE = 3/28/2011	CHECKED - JMH	REVISD -		ILLINOIS FED. AID PROJECT							
		DATE - MARCH, 2011	REVISD -									

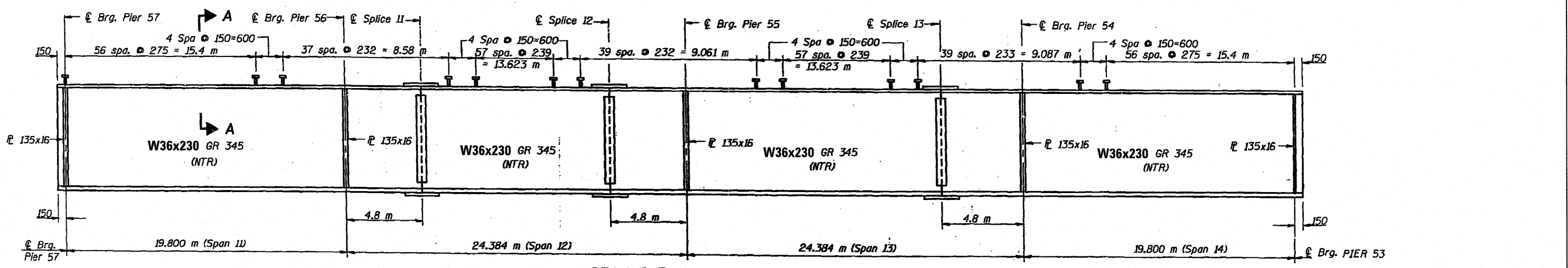


MARK	SECTION	COVER PLATES	
		SIZE	LENGTH
G191	36WF150	11" x 8"	47'-6"
G192, G193, G194	36WF135	11" x 16"	47'-0"
G195	36WF150	11" x 2"	43'-0"
G196, G201	36WF150	11" x 8"	45'-0"
G197, G198, G199	36WF135	11" x 16"	47'-6"
G202, G203, G204	36WF135	11" x 16"	47'-6"
G200, G205	36WF150	11" x 2"	42'-0"



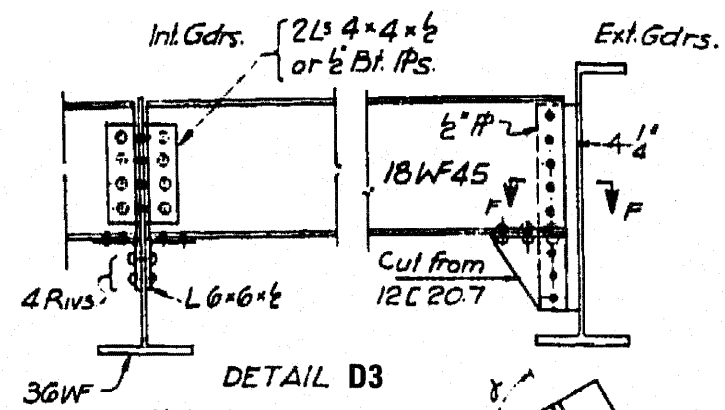


BEAM ELEVATION - UNIT 2



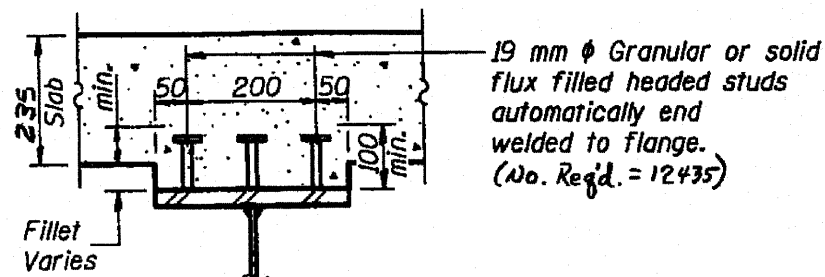
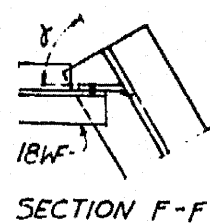
BEAM ELEVATION - UNIT 3

FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GIRDER ELEVATIONS - LOCATION 7 STRUCTURE NO. 016-1046			F.A.I. RTE. = 94	SECTION = 2010-127-BP	COUNTY = COOK	TOTAL SHEETS = 160	SHEET NO. = 115
	PLOT SCALE = 1/8" = 1' / IN.	DRAWN - AMR	REVISED -					CONTRACT NO. 60N01				
	PLOT DATE = 3/28/2011	CHECKED - JMH	REVISED -					ILLINOIS FED. AID PROJECT				
	DATE = MARCH, 2011	REVISED -		SCALE: NTS	SHEET NO. 5 OF 7 SHEETS	STA. TO STA.						

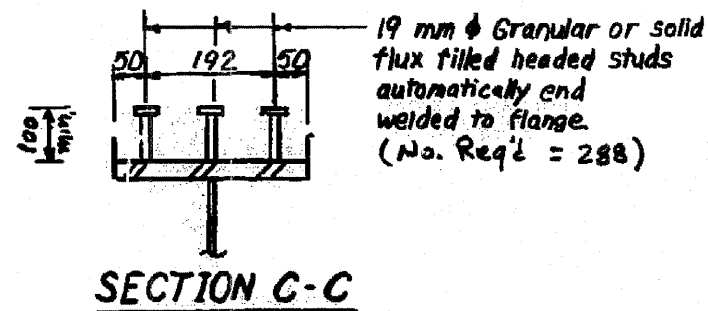


DETAIL D3

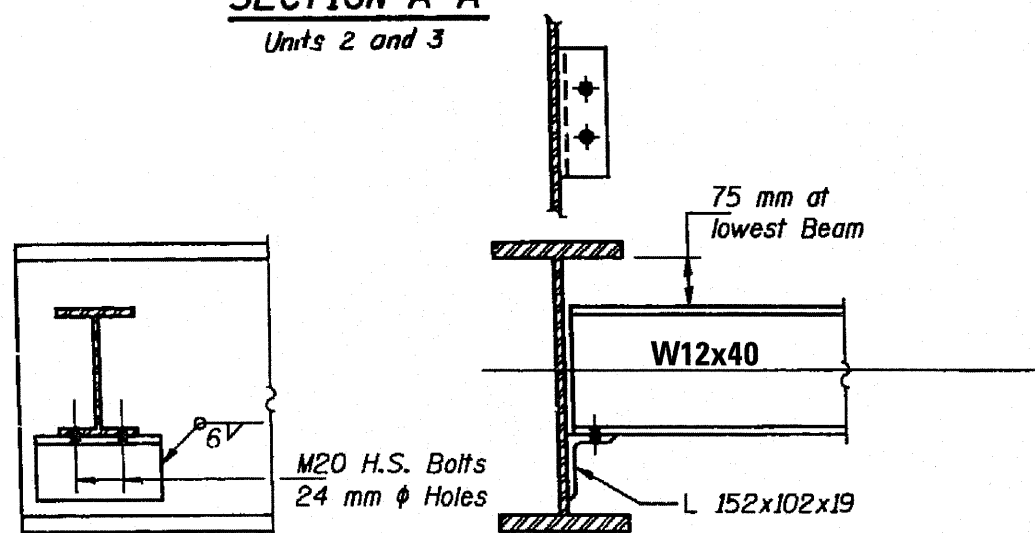
Note: Where Angle α is less than 60° use exterior connection detail for Interior Girders



SECTION A-A
Units 2 and 3



SECTION C-C

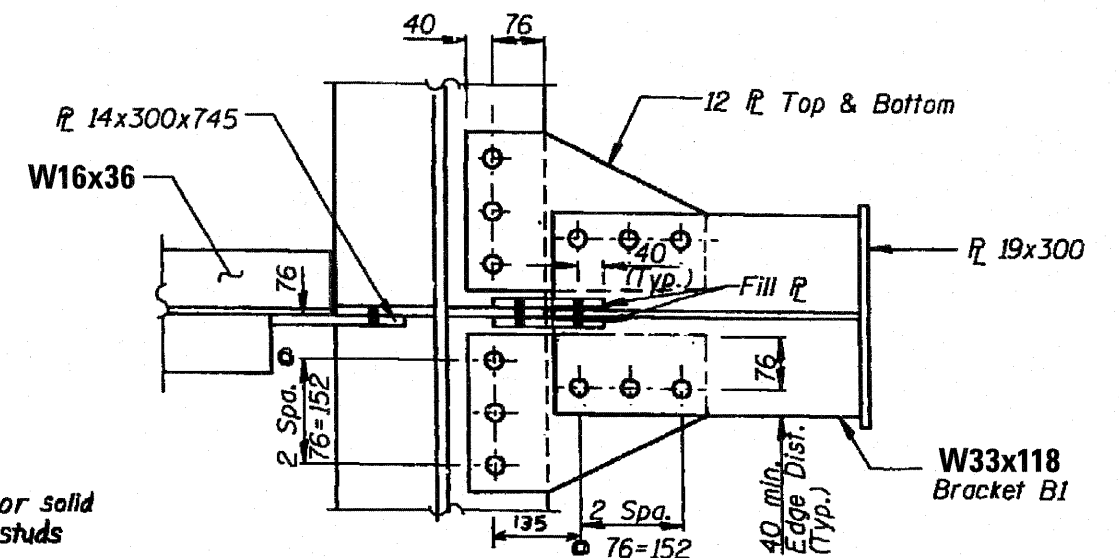


DIAPHRAGM D

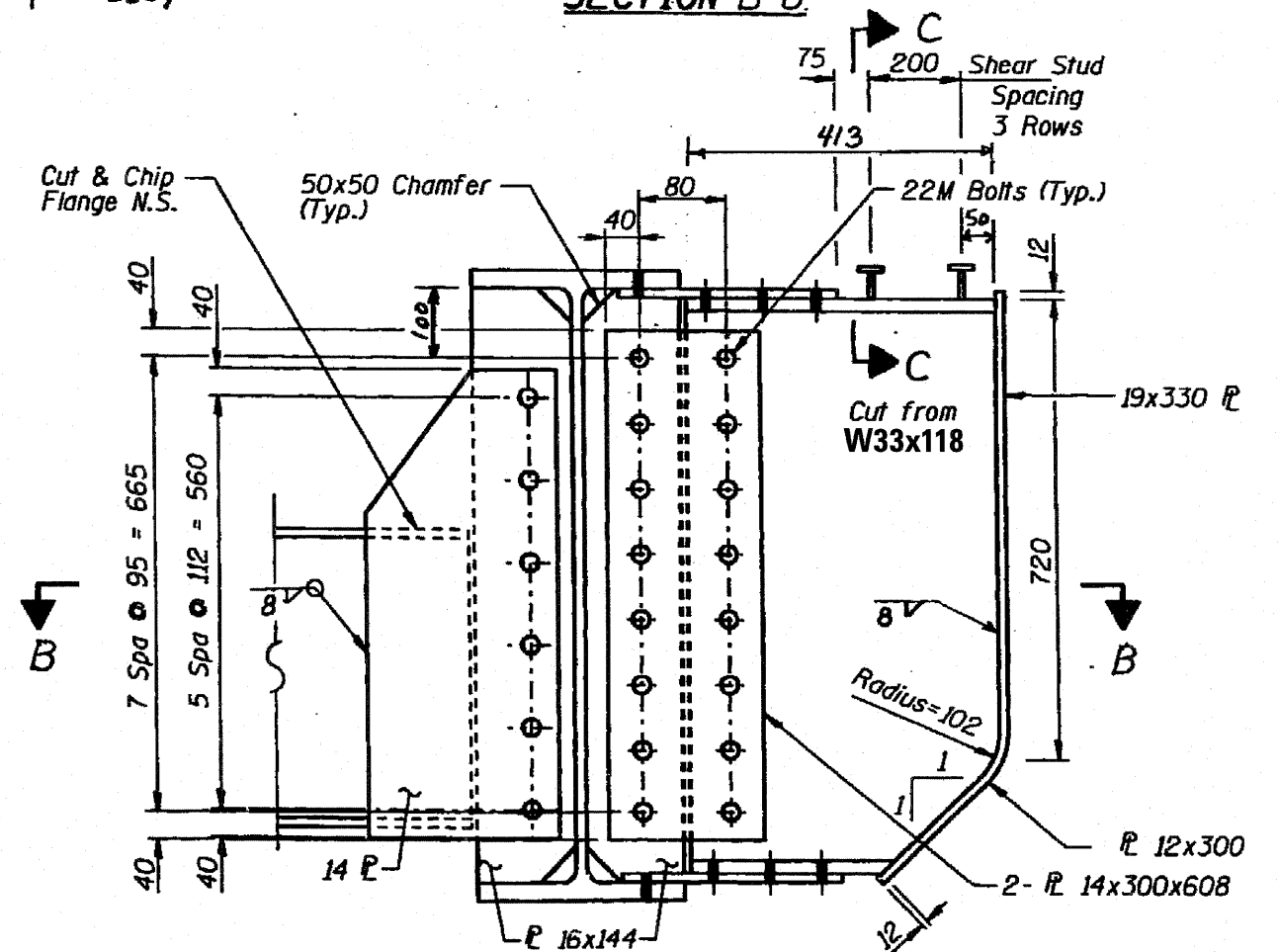
Units 2 and 3

Note: Two hardened washers shall be required over all oversize holes for diaphragms.
All dimensions are in millimeters (mm) except as noted.

NOTE: NTR denotes Notch Toughness Requirements
All dimensions are in millimeters (mm) except as noted.



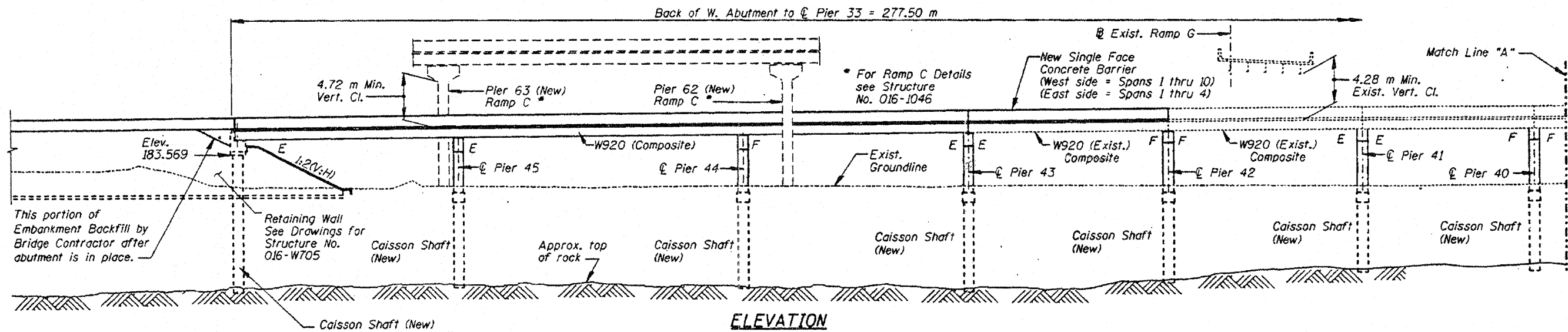
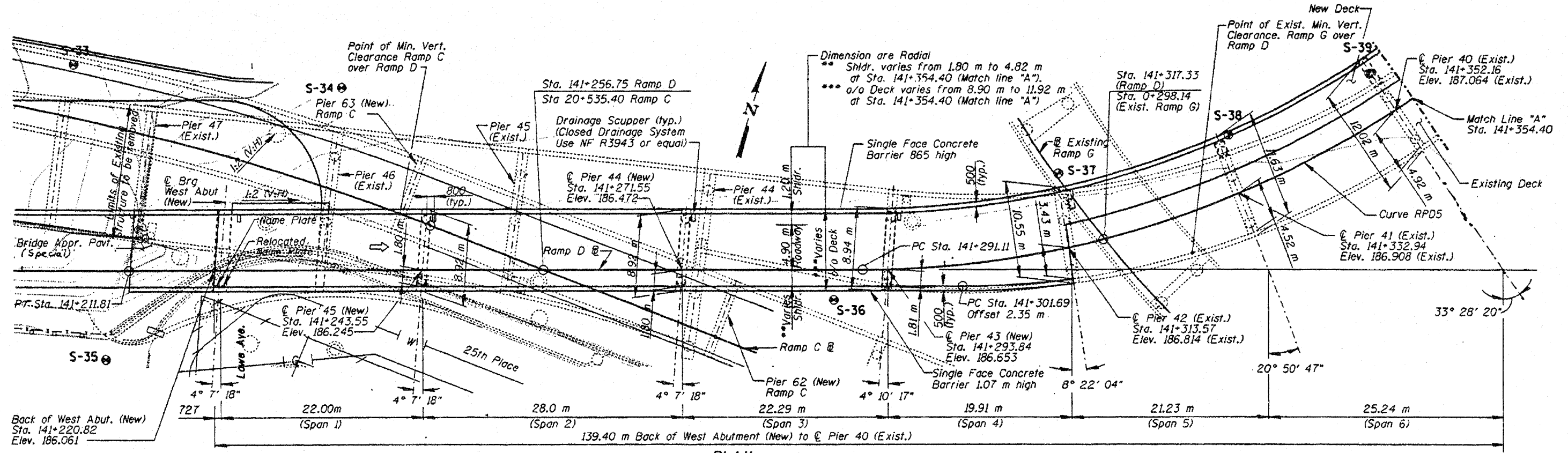
SECTION B-B



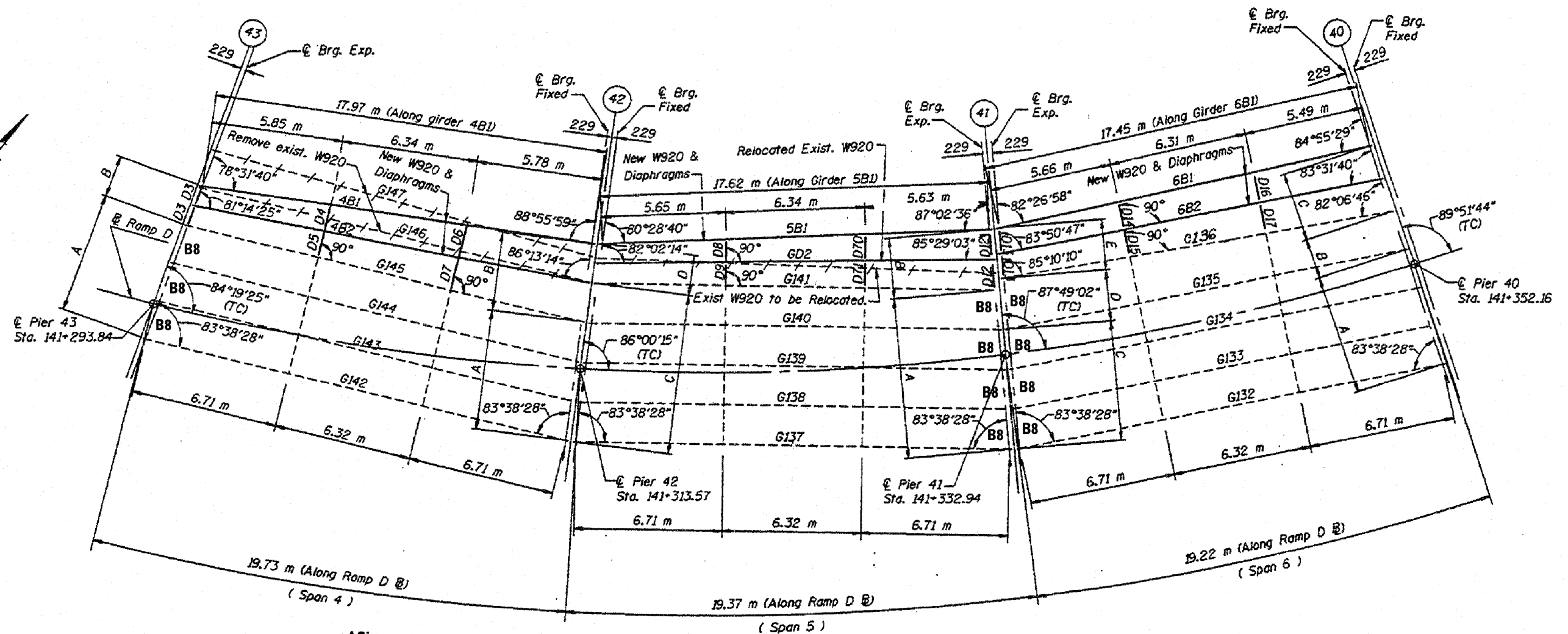
DIAPHRAGM D₁ & BRACKET B₁

FILE NAME	USER NAME = rgo11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS - LOCATION 7 STRUCTURE NO. 016-1046			F.A.I. RTE. = 94	SECTION = 2010-127-BP	COUNTY = COOK	TOTAL SHEETS = 160	SHEET NO. = 116
PLOT SCALE = 1/8" = 1'-0"		DRAWN - AMR	REVISED -		SCALE: NTS	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.	CONTRACT NO. 60N01			
CHECKED - JMH		DATE - MARCH, 2011	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 3/28/2011			REVISED -									

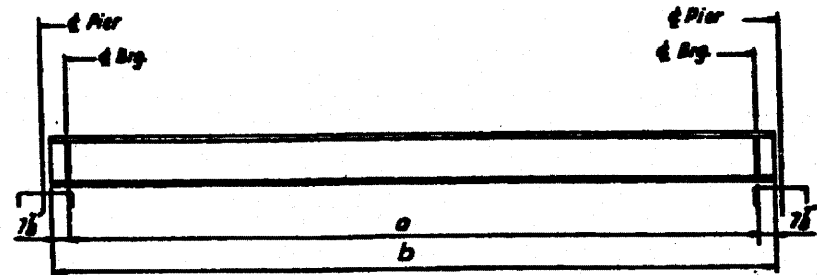
NOTE: Skew angle shown for Pier 39 (Exist.) to Pier 33 (Exist.) are measured from \odot Pier to a tangent to curve (TC) at \odot Pier stations along Ramp D \odot .



FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION - LOCATION 8 STRUCTURE NO. 016-1059		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8000' / IN.	DRAWN - AMR	REVISED -				94	2010-127-BP	COOK	160	118
	PLOT DATE = 3/28/2011	CHECKED - JMH	REVISED -				CONTRACT NO. 60N01				
		DATE - MARCH, 2011	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE: NTS	SHEET NO. 1 OF 9 SHEETS	STA.	TO STA.				



FRAMING PLAN SPANS 4, 5 & 6

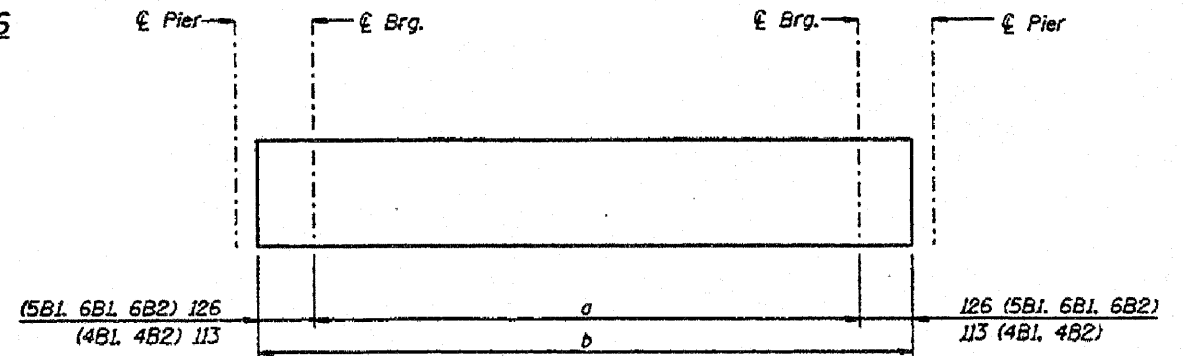


GIRDER ELEVATION
Girder GD2 36" WF Beam

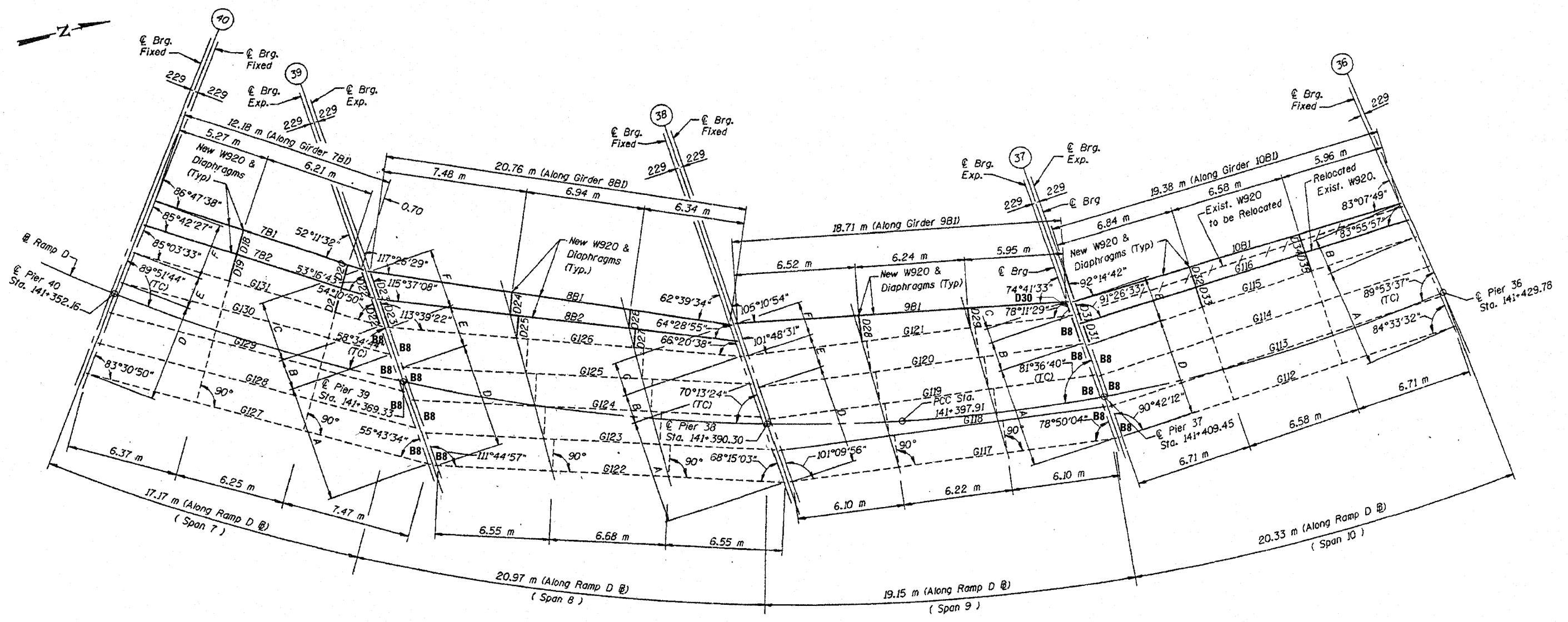
Dimension Table		
girder	a	b
GD2	58'-8"	89'-11"

BEAM SPACING ALONG THE € BEARING

	Pier 43	Pier 42	Pier 41	Pier 40
A	3 Spa. @ 1.85 m (-) = 5.56 m	3 Spa. @ 1.85 m (-) = 5.56 m	4 Spa. @ 1.85 m = 7.40 m	3 Spa. @ 1.85 m (-) = 5.56 m
B	2 Spa. @ 975 = 1.95 m	2 Spa. @ 1.82 m = 3.64 m	2 Spa. @ 1.40 m = 2.80 m	1.85 m
C	-	4 Spa. @ 1.85 m = 7.40 m	3 Spa. @ 1.85 m (-) = 5.56 m	2 Spa. @ 1.60 m = 3.20 m
D	-	2 Spd. @ 925 = 1.85 m	2.34 m	-
E	-	-	2 Spa. @ 1.17 m = 2.34 m	-



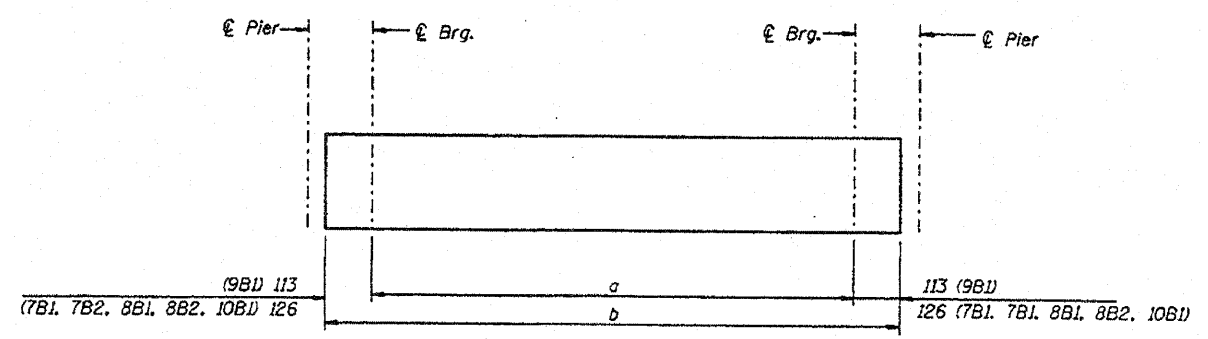
DIMENSION TABLE			
Span	Beam	a (m)	b (m)
4	4B1 4B2	17.97 18.22	18.20 18.45
5	5B1	17.62	17.87
6	6B1 6B2	17.45 17.75	17.70 18.00



FRAMING PLAN SPANS 7, 8, 9 & 10

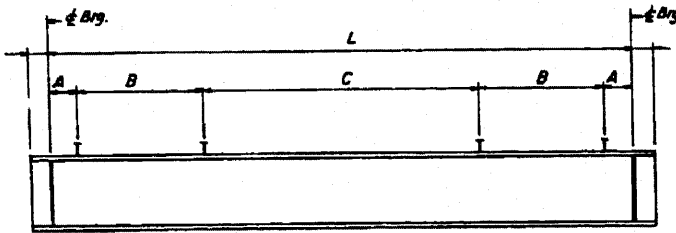
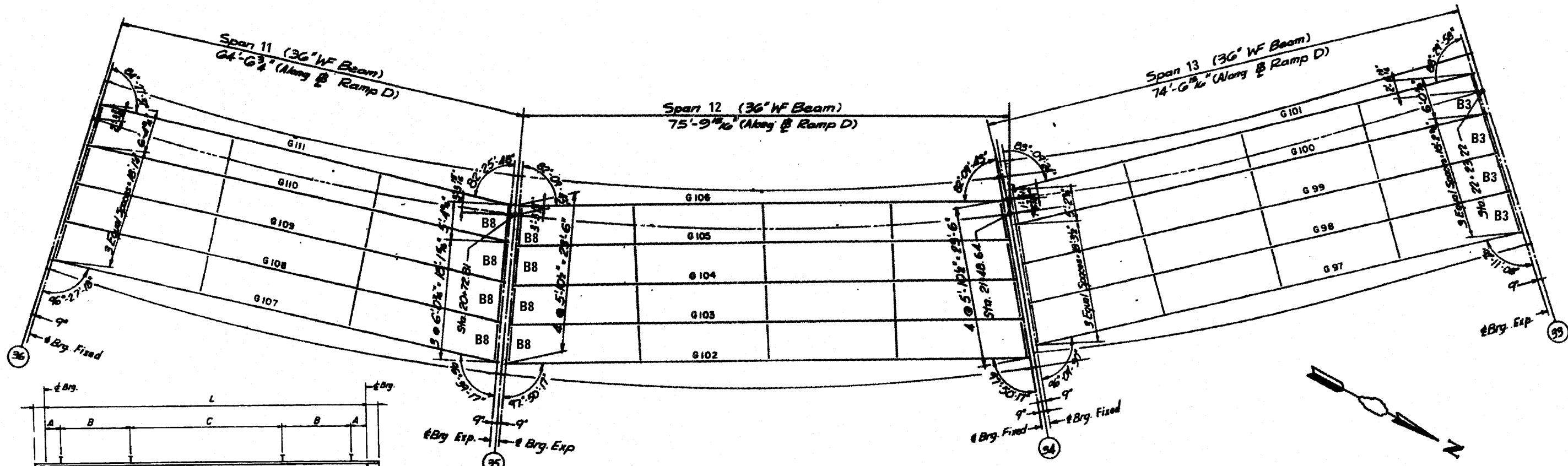
BEAM SPACING ALONG THE \hat{C} BEARING

	Pier 40	Pier 39	Pier 38	Pier 37	Pier 36
A	-	3 Spa. @ 2.22 m = 6.66 m	3 Spa. @ 2.00 m = 6.00 m	3 Spa. @ 1.91 m(±) = 5.74 m	3 Spa. @ 1.87 m = 5.61 m
B	-	1.74 m	1.67 m	1.70 m	2 Spa. @ 1.04 m = 2.08 m
C	-	2 Spa. @ 1.72 m = 3.44 m	2 Spa. @ 963 = 1.93 m	820	-
D	3 Spa. @ 1.85 m = 5.56 m	3 Spa. @ 2.00 m = 6.00 m	3 Spa. @ 1.91 m(±) = 5.74 m	3 Spa. @ 1.86 m = 5.58 m	-
E	1.84 m	2.39 m	1.93 m	2 Spa. @ 1.31 m = 2.62 m	-
F	2 Spa. @ 1.62 m = 3.24 m	2 Spa. @ 1.70 m = 3.40 m	1.95 m	-	-



DIMENSION TABLE

Span	Beam	a (m)	b (m)
7	7B1	12.18	12.43
	7B2	13.33	13.58
8	8B1	20.76	21.01
	8B2	20.43	20.68
9	9B1	18.71	18.94
	9B2	18.71	18.94
10	10B1	19.38	19.63
	10B2	19.38	19.63



BEAM ELEVATION - SPANS 4 THRU 13

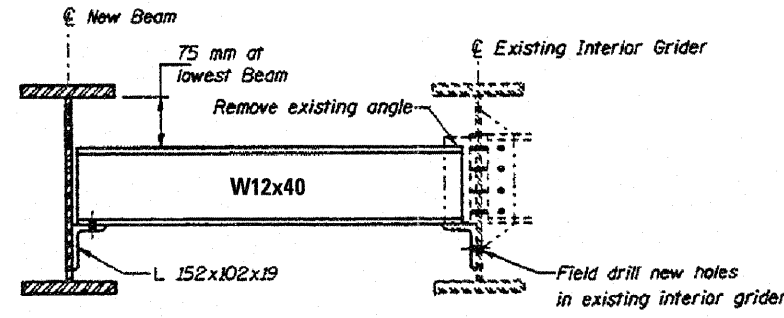
FRAMING PLAN SPANS 11, 12 & 13

SPAN	GIRDER	L	A	B	C
13	G-101	72'-8 1/2"	9"	19'-0"	46'-0 1/2"
	G-100	73'-5 1/2"	9"	27'-0"	36'-0 1/2"
	G-99	74'-4 1/2"	9"	25'-0"	40'-0 1/2"
	G-98	75'-2 1/2"	9"	25'-0"	41'-0 1/2"
	G-97	76'-1 1/2"	9"	16'-0 9"	65'-0 1/2"
12	G-106	73'-7 1/2"	9"	20'-0"	46'-0 1/2"
	G-105	75'-2 1/2"	9"	22'-0"	45'-0 1/2"
	G-104	76'-10 1/2"	9"	22'-0"	46'-0 1/2"
	G-103	78'-5 1/2"	9"	22'-0"	48'-0 1/2"
	G-102	80'-0 1/2"	9"	18'-0"	55'-0 1/2"
11	G-111	62'-5 1/2"	9"	18'-0"	37'-0 1/2"
	G-110	63'-9 1/2"	9"	24'-0"	31'-0 1/2"
	G-109	65'-2 1/2"	9"	24'-0"	32'-0 1/2"
	G-108	66'-6 1/2"	9"	25'-0"	32'-0 1/2"
	G-107	67'-11 1/2"	9"	20'-0 6"	47'-0 1/2"
10	G-116	63'-6 1/2"	9"	16'-0"	41'-0 1/2"
	G-115	64'-0 1/2"	9"	26'-0"	28'-0 1/2"
	G-114	64'-7 1/2"	9"	26'-0"	29'-0 1/2"
	G-113	65'-11 1/2"	9"	26'-0"	29'-0 1/2"
	G-112	65'-7 1/2"	9"	24'-0"	40'-0 1/2"
9	G-121	60'-6 1/2"	9"	18'-0"	35'-0 1/2"
	G-120	60'-4 1/2"	9"	24'-0"	27'-0 1/2"
	G-119	60'-4 1/2"	9"	24'-0"	27'-0 1/2"
8	G-129	56'-3 1/2"	9"	26'-0"	20'-0 1/2"
	G-128	61'-1 1/2"	9"	26'-0"	25'-0 1/2"
7	G-127	65'-10 1/2"	9"	28'-0 6"	27'-0 1/2"
	G-126	65'-10 1/2"	9"	20'-0"	38'-0 1/2"
	G-125	64'-11 1/2"	9"	25'-0"	38'-0 1/2"
	G-124	64'-11 1/2"	9"	25'-0"	38'-0 1/2"
	G-123	64'-11 1/2"	9"	25'-0"	38'-0 1/2"
6	G-131	47'-7 1/2"	9"	8'-0 9"	34'-0 1/2"
	G-130	51'-6 1/2"	9"	15'-0"	30'-0 1/2"
	G-129	56'-3 1/2"	9"	26'-0"	20'-0 1/2"
	G-128	61'-1 1/2"	9"	26'-0"	25'-0 1/2"
	G-127	65'-10 1/2"	9"	28'-0 6"	27'-0 1/2"
5	G-135	60'-8 1/2"	9"	26'-0"	25'-0 1/2"
	G-134	62'-0 1/2"	9"	26'-0"	26'-0 1/2"
	G-133	63'-4 1/2"	9"	26'-0"	27'-0 1/2"
	G-132	64'-8 1/2"	9"	26'-0 6"	37'-0 1/2"
	G-131	69'-4 1/2"	9"	14'-0 9"	37'-0 1/2"
4	G-145	60'-8 1/2"	9"	26'-0"	25'-0 1/2"
	G-144	63'-0 1/2"	9"	26'-0"	26'-0 1/2"
	G-143	63'-4 1/2"	9"	26'-0"	27'-0 1/2"
	G-142	64'-8 1/2"	9"	26'-0 6"	37'-0 1/2"
	G-141	69'-4 1/2"	9"	14'-0 9"	37'-0 1/2"

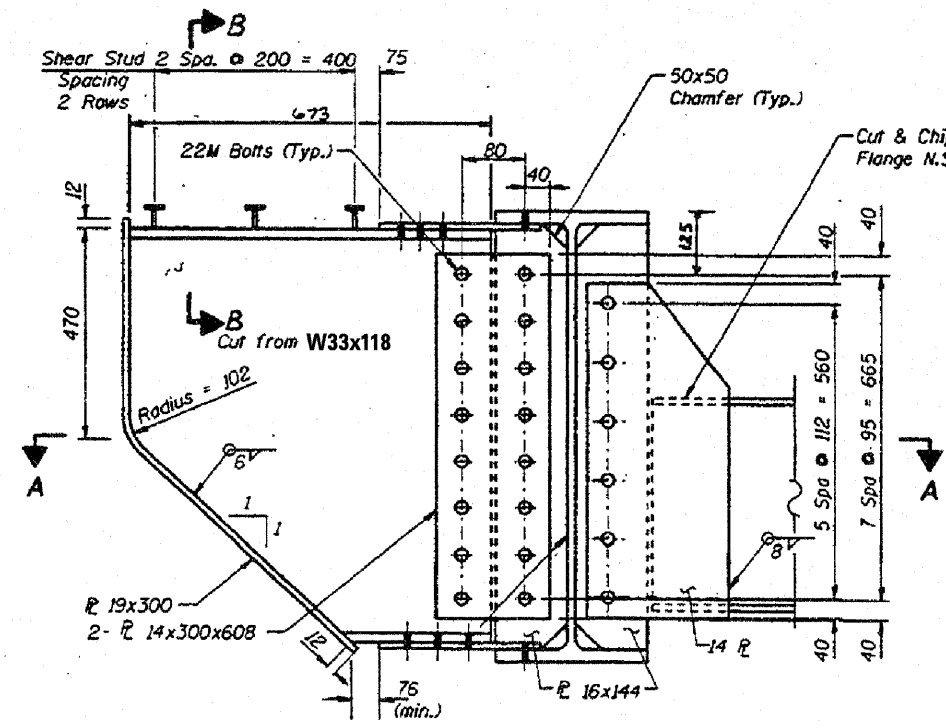
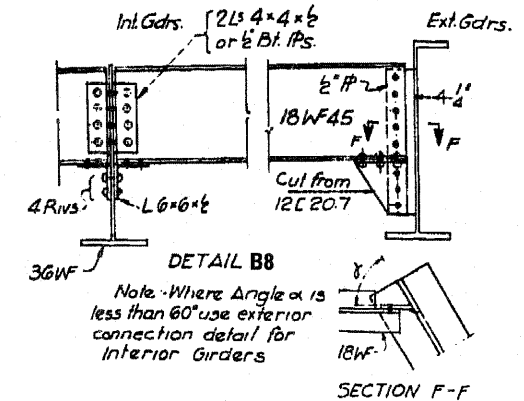
SPAN	GIRDER	L	A	B	C
8	G-126	65'-10 1/2"	9"	20'-0"	38'-0 1/2"
	G-125	64'-11 1/2"	9"	25'-0"	38'-0 1/2"
	G-124	64'-11 1/2"	9"	25'-0"	38'-0 1/2"
	G-123	64'-11 1/2"	9"	25'-0"	38'-0 1/2"
	G-122	64'-11 1/2"	9"	37'-0 6"	30'-0 1/2"
7	G-131	47'-7 1/2"	9"	8'-0 9"	34'-0 1/2"
	G-130	51'-6 1/2"	9"	15'-0"	30'-0 1/2"
	G-129	56'-3 1/2"	9"	26'-0"	20'-0 1/2"
	G-128	61'-1 1/2"	9"	26'-0"	25'-0 1/2"
	G-127	65'-10 1/2"	9"	28'-0 6"	27'-0 1/2"
6	G-135	60'-8 1/2"	9"	26'-0"	25'-0 1/2"
	G-134	62'-0 1/2"	9"	26'-0"	26'-0 1/2"
	G-133	63'-4 1/2"	9"	26'-0"	27'-0 1/2"
	G-132	64'-8 1/2"	9"	26'-0 6"	37'-0 1/2"
	G-131	69'-4 1/2"	9"	14'-0 9"	37'-0 1/2"
5	G-145	60'-8 1/2"	9"	26'-0"	25'-0 1/2"
	G-144	63'-0 1/2"	9"	26'-0"	26'-0 1/2"
	G-143	63'-4 1/2"	9"	26'-0"	27'-0 1/2"
	G-142	64'-8 1/2"	9"	26'-0 6"	37'-0 1/2"
	G-141	69'-4 1/2"	9"	14'-0 9"	37'-0 1/2"

GIRDER SCHEDULE

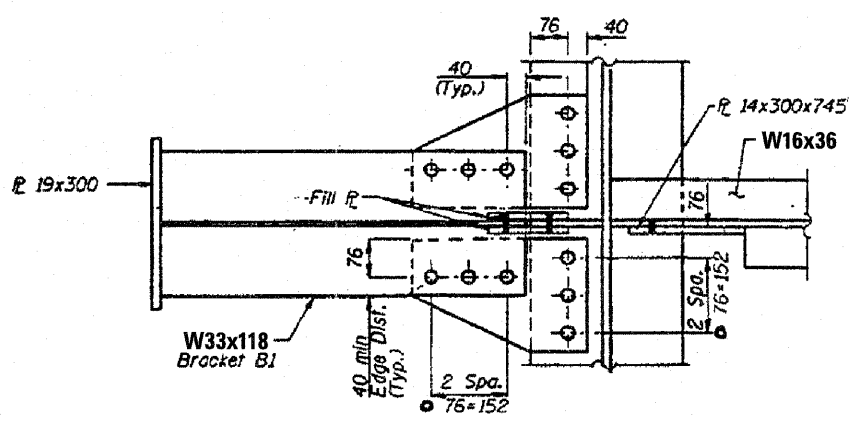
MARK	SECTION	COVER PLATES	
		SIZE	LENGTH
G97	36WF250	15" x 3/8"	53'-0"
G98, G99	36WF182	11" x 1 1/2"	52'-6"
G100	36WF182	11" x 2"	50'-0"
G101	36WF194	11" x 2 1/2"	51'-0"
G102	36WF245	15" x 1 1/4"	61'-6"
G103, G104, G105	36WF182	11" x 2"	55'-0"
G106	36WF194	11" x 2 1/2"	55'-0"
G107	36WF182	11" x 2 1/2"	49'-0"
G108	36WF195	11" x 3 1/2"	50'-0"
G109, G110	36WF195	11" x 3 1/2"	48'-6"
G111	36WF150	11" x 2"	45'-6"
G112	36WF150	11" x 2 1/2"	49'-0"
G113, G114, G115	36WF195	11" x 3 1/2"	48'-6"
G116	36WF150	11" x 2"	44'-0"
G117	36WF150	11" x 2"	40'-6"
G118, G119, G120	36WF135	11" x 1 1/2"	43'-0"
G121	36WF150	11" x 2"	40'-6"
G122	36WF150	11" x 1"	50'-0"
G123, G124, G125	36WF135	11" x 1 1/2"	48'-6"
G126	36WF150	11" x 2 1/2"	49'-0"
G127	36WF150	11" x 1"	50'-6"
G128, G129	36WF135	11" x 1 1/2"	42'-0"
G130	36WF195	—	—
G131	36WF150	—	—
G132, G137, G142	36WF150	11" x 2"	48'-6"
G133, G134, G138	36WF135	11" x 1 1/2"	46'-0"
G139, G143, G144	36WF195	11" x 2"	46'-0"
G135, G140, G145	36WF135	11" x 2"	42'-0"
G136, G141	36WF150	11" x 2"	37'-6"



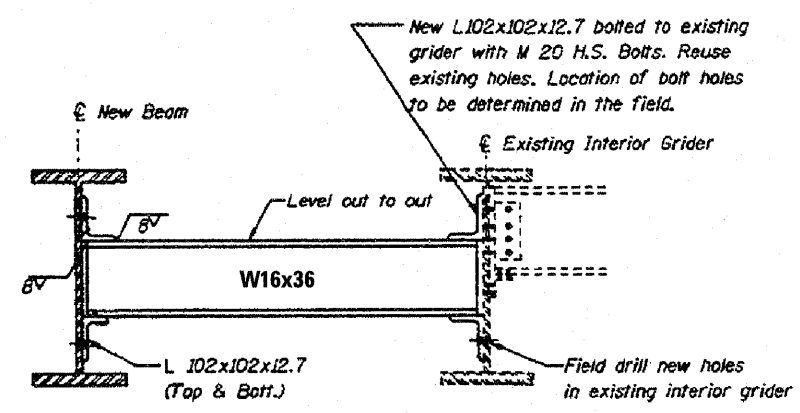
END DIAPHRAGM DETAIL
(Showing connection to existing beam)



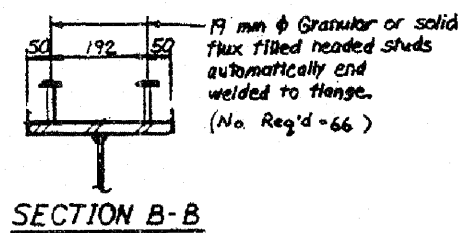
DIAPHRAGM D1 & BRACKET B1
B1 - 11 Required
D1 - 64 Required



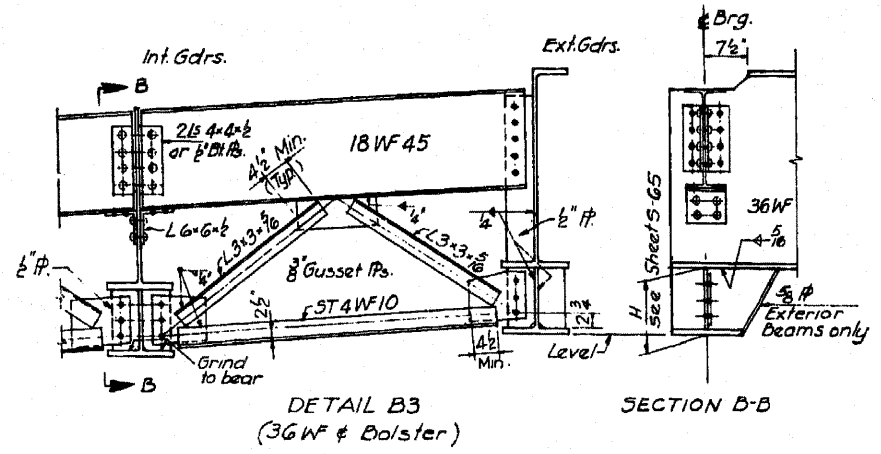
SECTION A-A



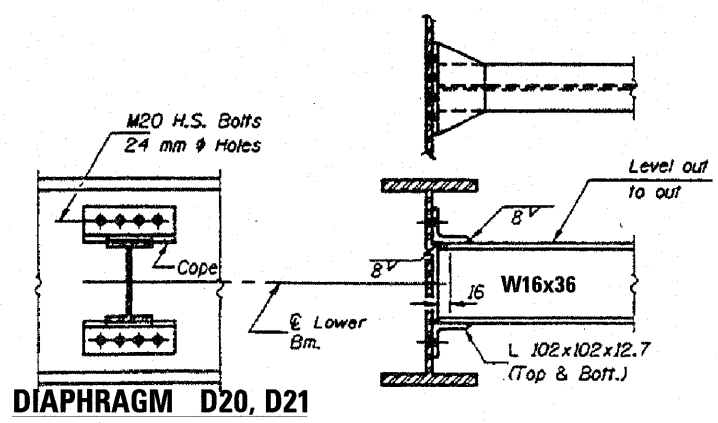
INTERIOR DIAPHRAGM DETAIL
(Showing connection to existing beam)



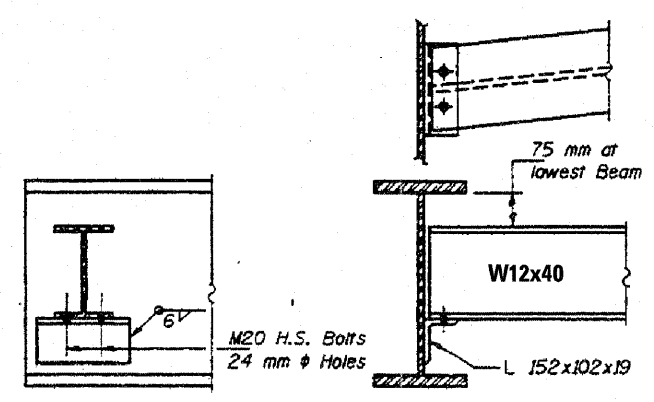
SECTION B-B



NOTES:
1. All dimensions are in millimeters (mm) except as noted.

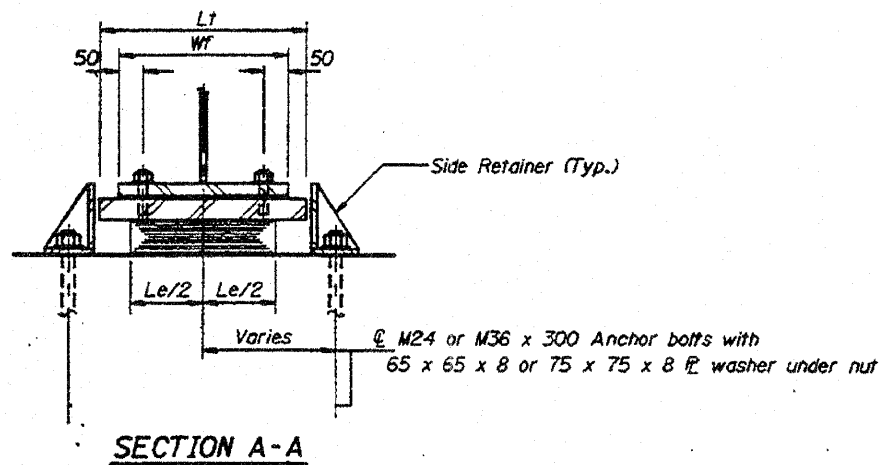
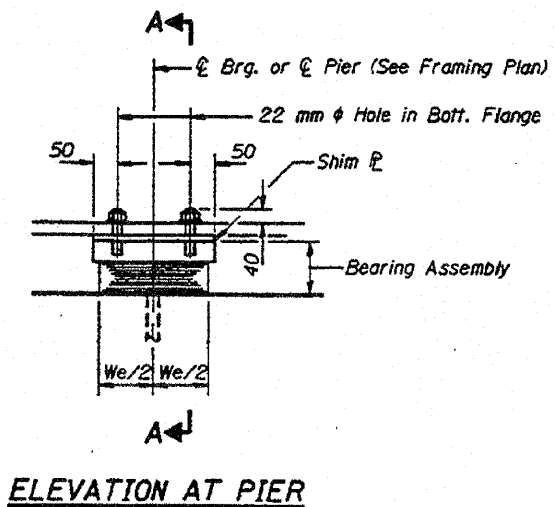


DIAPHRAGM D20, D21
1 Required for Each Diaphragm. No. Listed



DIAPHRAGM D2, D3, D12, D13, D22, D23, D30, D31
D2 - 8 Required
D3, D12, D13, D22, D23, D31 - 2 Required Each
D30 - 1 Required

FILE NAME =	USER NAME = rgal1	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM & CROSS FRAME DETAILS - LOCATION 8 STRUCTURE NO. 016-1059		F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 124	
PLOT SCALE = 1:20000 1/4 IN.	CHECKED - JMH	DATE - MARCH, 2011	REVISED -		SCALE: NTS	SHEET NO. 7 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60N01				
PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



- LEGEND**
- WF = Wide flange
 - We = Width of Elastomer Pad
 - Le = Length of Elastomer Pad
 - Tp = Thickness of Elastomer Layers
 - Np = Number of Elastomer Layers
 - Ts = Thickness of Steel Plate
 - Ns = Number of Steel Plate
 - ERT = Effective Rubber Thickness
 - Te = Thickness of Bearing Pad

- NOTES:**
1. All structural steel in bearing assemblies shall be AASHTO M270 grade 345 steel.
 2. All dimensions are in millimeters (mm) except as noted.

TYPE I ELASTOMERIC EXP. BRG.

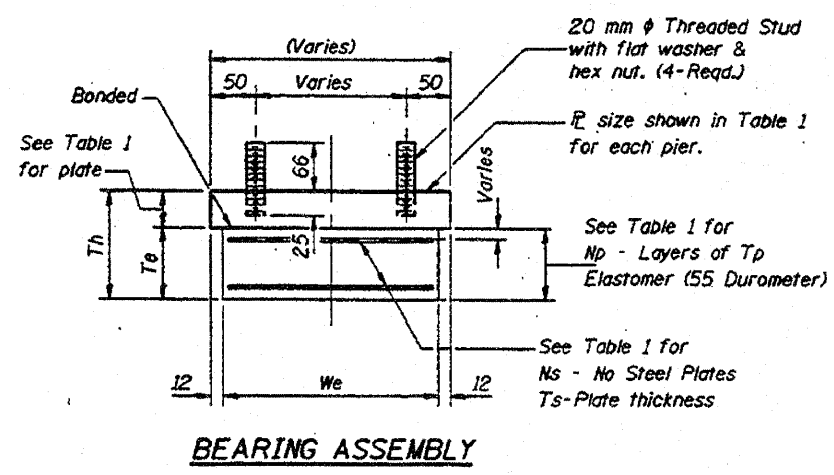
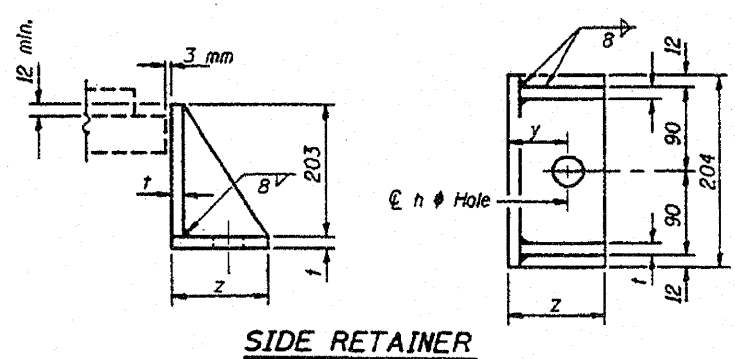


TABLE 1-TYPE I ELASTIC EXPANSION BEARING

Location	Bearing Type	BEARING PAD DIMENSIONS										Slope Max. %	Top Steel Plate Size	Anchor Bolt Type A307	Anchor Bolts Required
		We	WF	Le	Tp	Np	Ts	Ns	ERT	Te	Th				
Pier 45	306 b	306	305	458	14	4	5	3	56	71	121	2.20	50x330x508	M36	2
Pier 43-South	178 c	178	305	306	10	5	2.5	4	50	60	100	3.37	40x202x356	M24	2
Pier 43-North	152 b	152	304	254	8	5	2	4	40	48	88	3.16	40x176x354	M24	2
Pier 41-South	152 b	178	304	306	8	5	2	4	40	48	88	3.16	40x202x356	M24	2
Pier 41-North	178 b	178	304	306	10	4	2.5	3	40	48	88	2.7	40x202x356	M24	2
Pier 39-South	178 a	178	304	306	10	3	2.5	2	30	35	75	2.02	40x202x356	M24	2
Pier 39-North	178 b	178	304	306	10	4	2.5	3	40	48	88	2.7	40x202x356	M24	2
Pier 37-South	152 b	152	304	254	8	5	2	4	40	48	88	3.16	40x176x354	M24	2
Pier 37-North	178 b	178	304	306	10	4	2.5	3	40	48	88	2.7	40x202x356	M24	2

Note: Shim plates shall not be placed under Bearing Assembly.

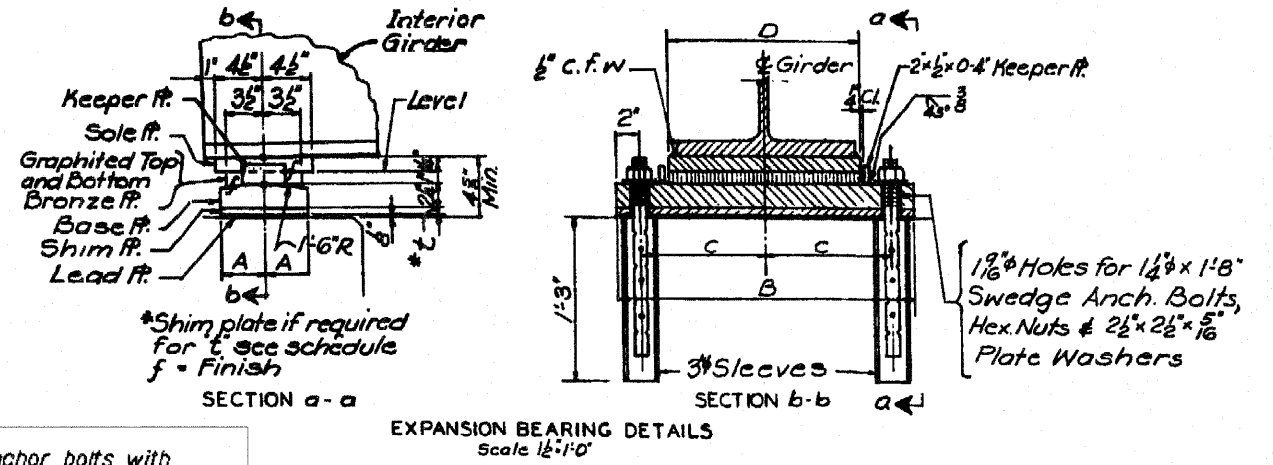
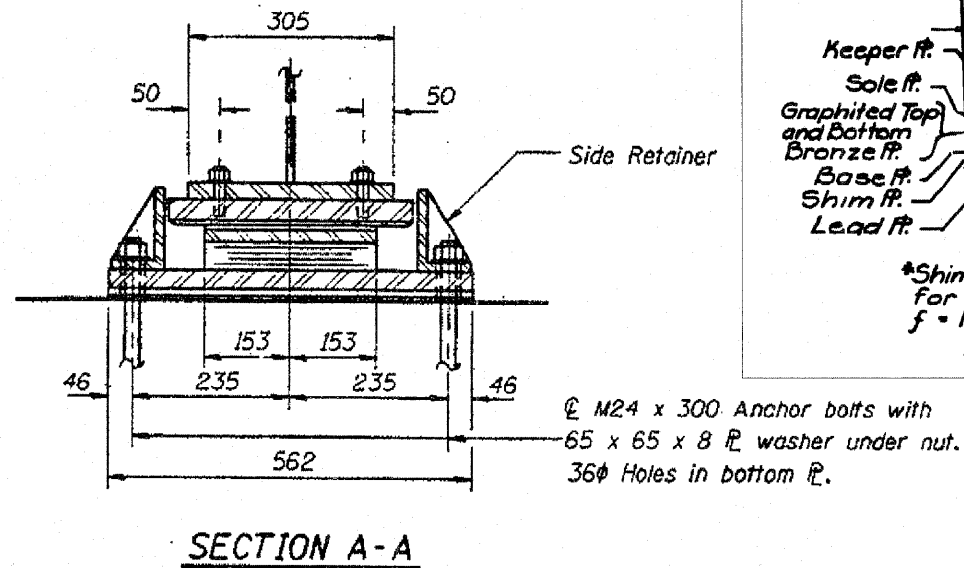
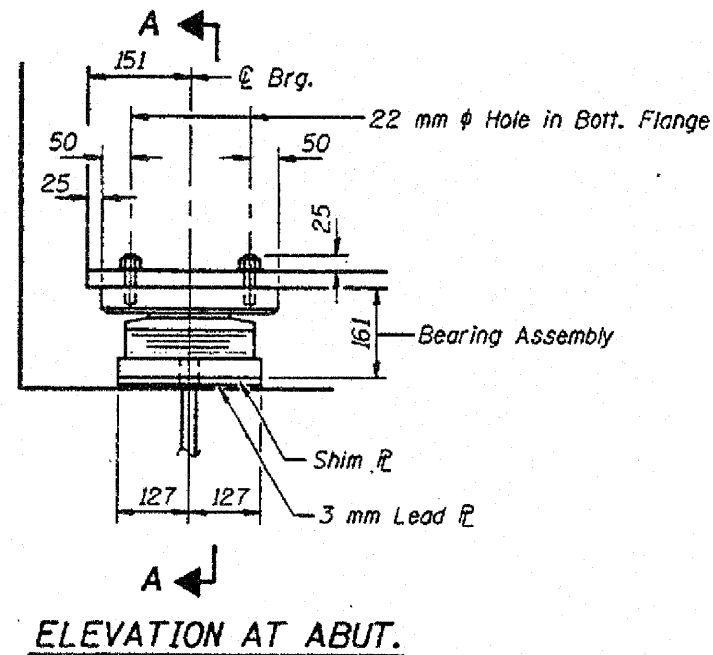


Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

Bolts φ (mm)	Y	Z	t	h
24	54	100	14	30
36	70	140	16	44

TABLE 2 - SHIM PLATES

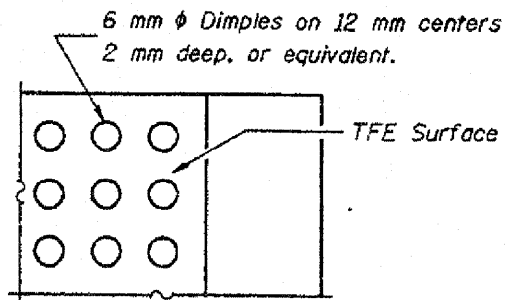
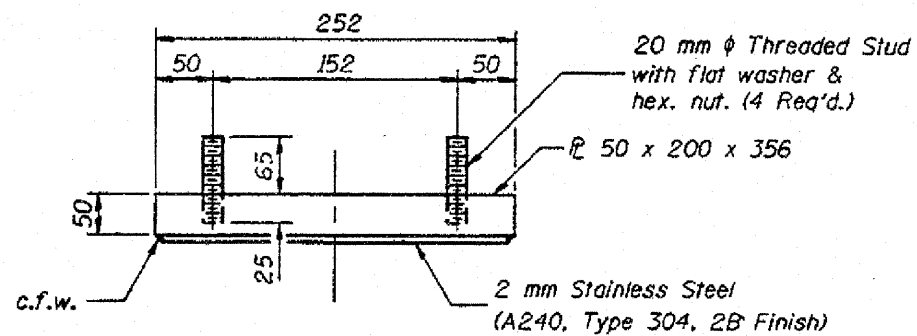
Location	Beam Designation	Shim Plate Size	Location	Beam Designation	Shim Plate Size
Pier 43-North	4B1	61x176x354	Pier 39-South	7B1	20x202x356
	4B2	35x176x354		Pier 39-North	7B2
	G145	68x176x354			
	G144	70x176x354			
	G143	73x176x354	Pier 37-South	9B1	21x176x354
G142	68x176x354	G121		126x176x354	
			Pier 37-North	G116	114x202x356
Pier 41-South	5B1	47x202x356			
	6D2	60x202x356			



EXPANSION BEARING SCHEDULE						
MARK	DIMENSIONS				REMARKS	
	A	B	C	D		
E1	4"	2'3"	11 1/2"	1'5 1/2"	Typical for 16" flange	
E2	4"	1'10"	9 1/2"	1'-1"	Typical for 12" flange	

Note: Use typical bearings mark E1 and E2 unless otherwise noted.

TYPE II TFE ELASTOMERIC EXP. BRG.

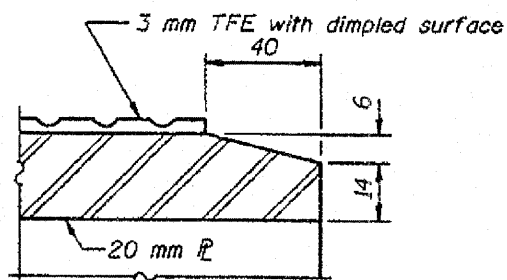
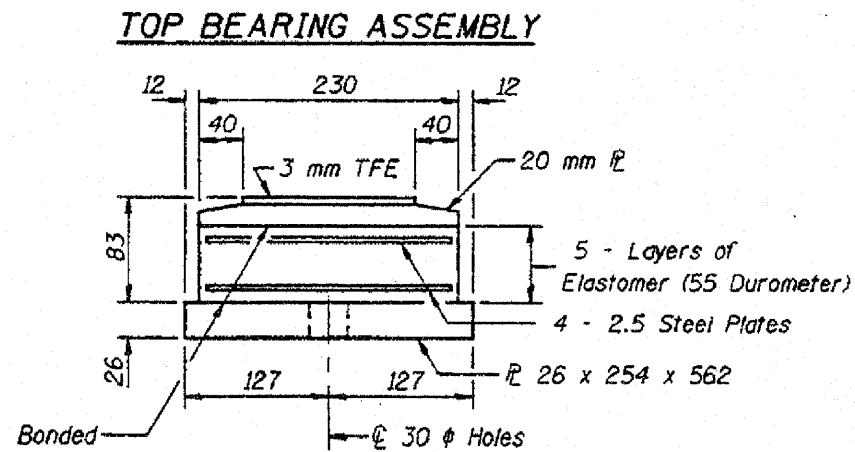


LEGEND

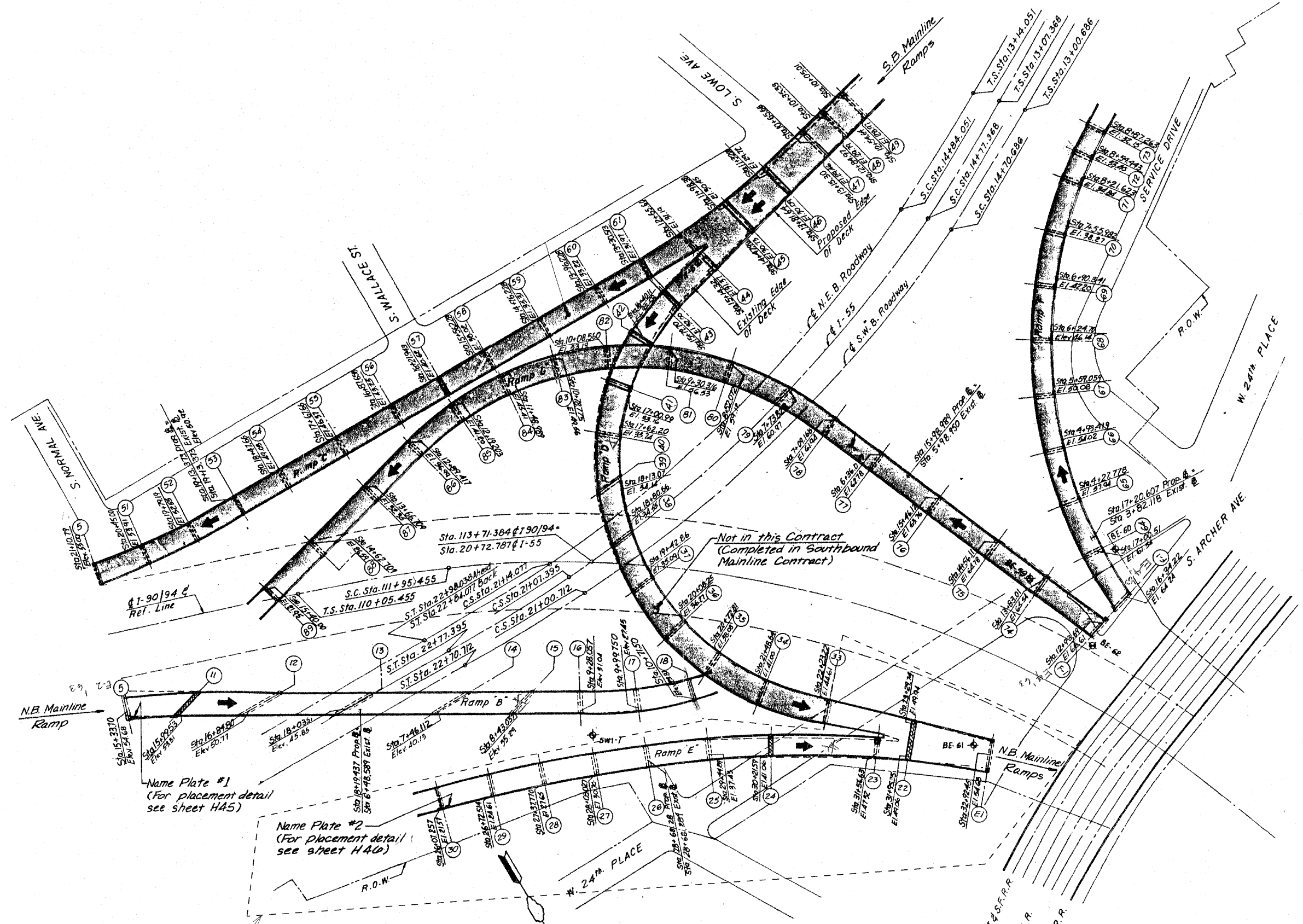
- Wf = Wide flange
- We = Width of Elastomer Pad
- Le = Length of Elastomer Pad
- Tp = Thickness of Elastomer Layers
- Np = Number of Elastomer Layers
- Ts = Thickness of Steel Plate
- Ns = Number of Steel Plate
- ERT = Effective Rubber Thickness
- Te = Thickness of Bearing Pad

NOTES:

1. All structural steel in bearing assemblies shall be AASHTO M270 grade 345 steel.
2. All dimensions are in millimeters (mm) except as noted.



TYPE II ELASTIC EXPANSION BEARING															
TABLE 2															
Location	Bearing Type	BEARING PAD DIMENSIOS										Steel Plate Size		Anchor Bolt Type A307	Anchor Bolts Required
		Wf	We	Le	Tp	Np	Ts	Ns	ERT	Te	Th	top	bottom		
West abutment	230 a	305	230	306	10	5	2.5	4	50	83	161	50x252x356	26x254x562	M24	2

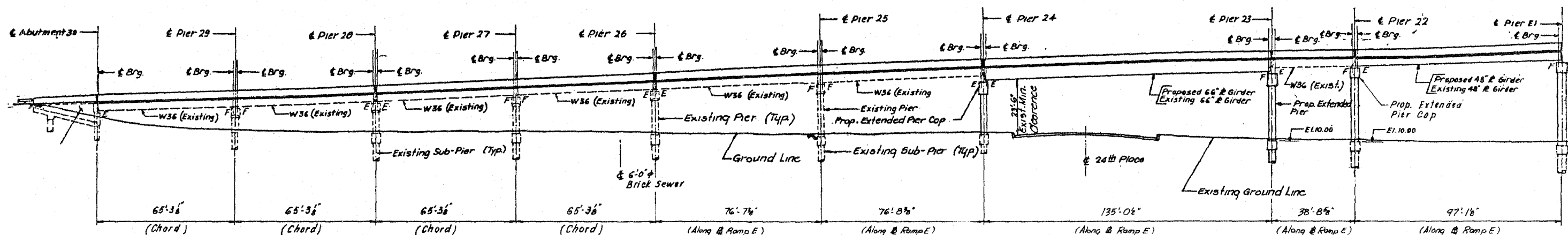


PLAN

LOCATION 9

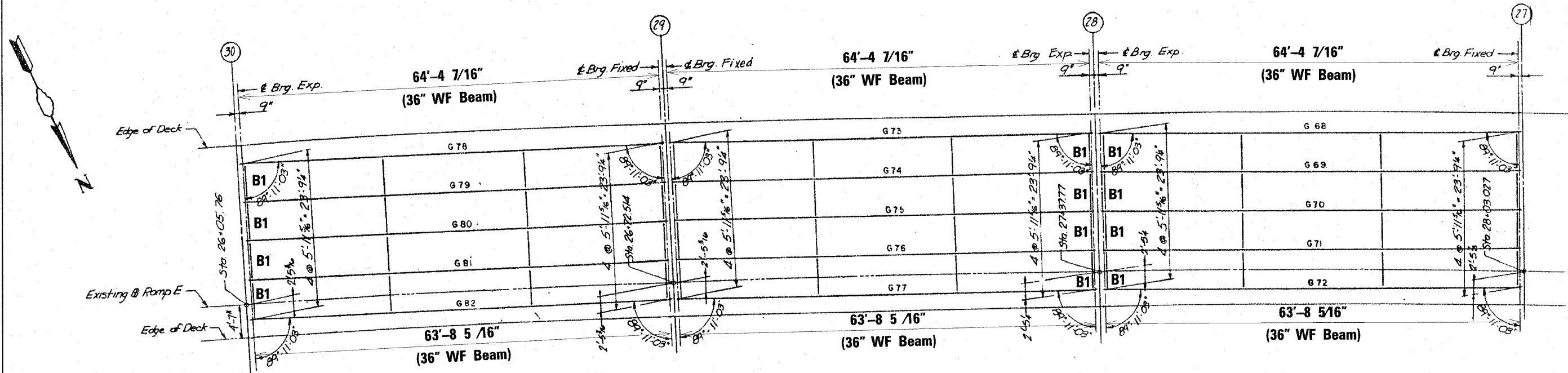
- LEGEND**
- ◆ Indicates Existing Soil Borings
 - ▭ New Pier Widening Completed in Previous Contracts
 - Indicates Pier Number
 - ▨ Pier Replacement or Widening

FILE NAME -	USER NAME = rgall	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN - LOCATION 9		F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 127
	PLOT SCALE = 1:2000 1/4" IN.	DRAWN - AMR	REVISED -		SCALE: NTS	SHEET NO. 1 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60N01		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 3/28/2011	CHECKED - JMH	REVISED -								
		DATE - MARCH, 2011	REVISED -								

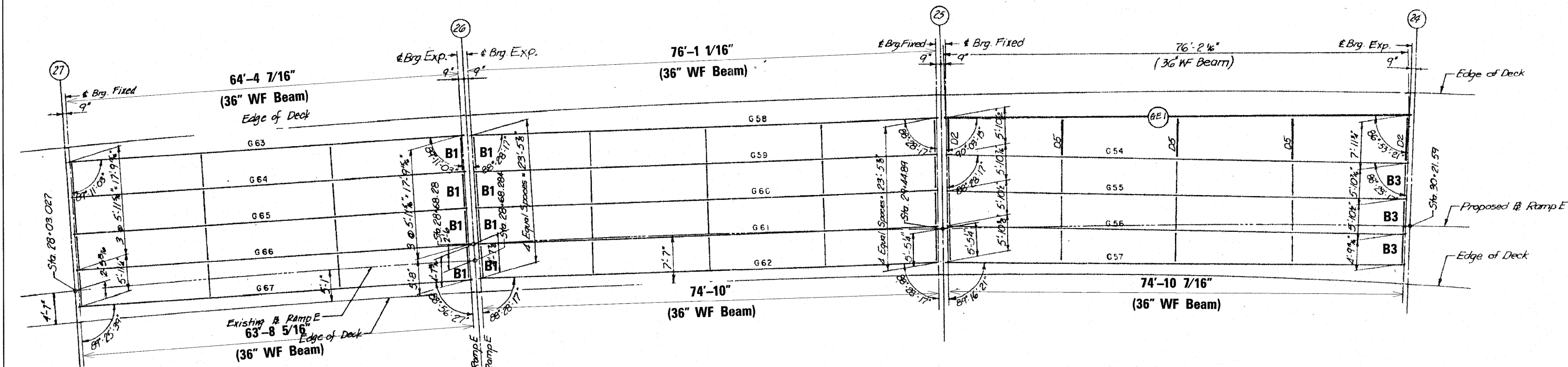


RAMP E

FILE NAME =	USER NAME = rgn11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL ELEVATION - LOCATION 9 STRUCTURE NO. 016-1047			F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 128
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - JMH	REVISED -					CONTRACT NO. 60N01				
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: NTS SHEET NO. 2 OF 9 SHEETS STA. TO STA.								

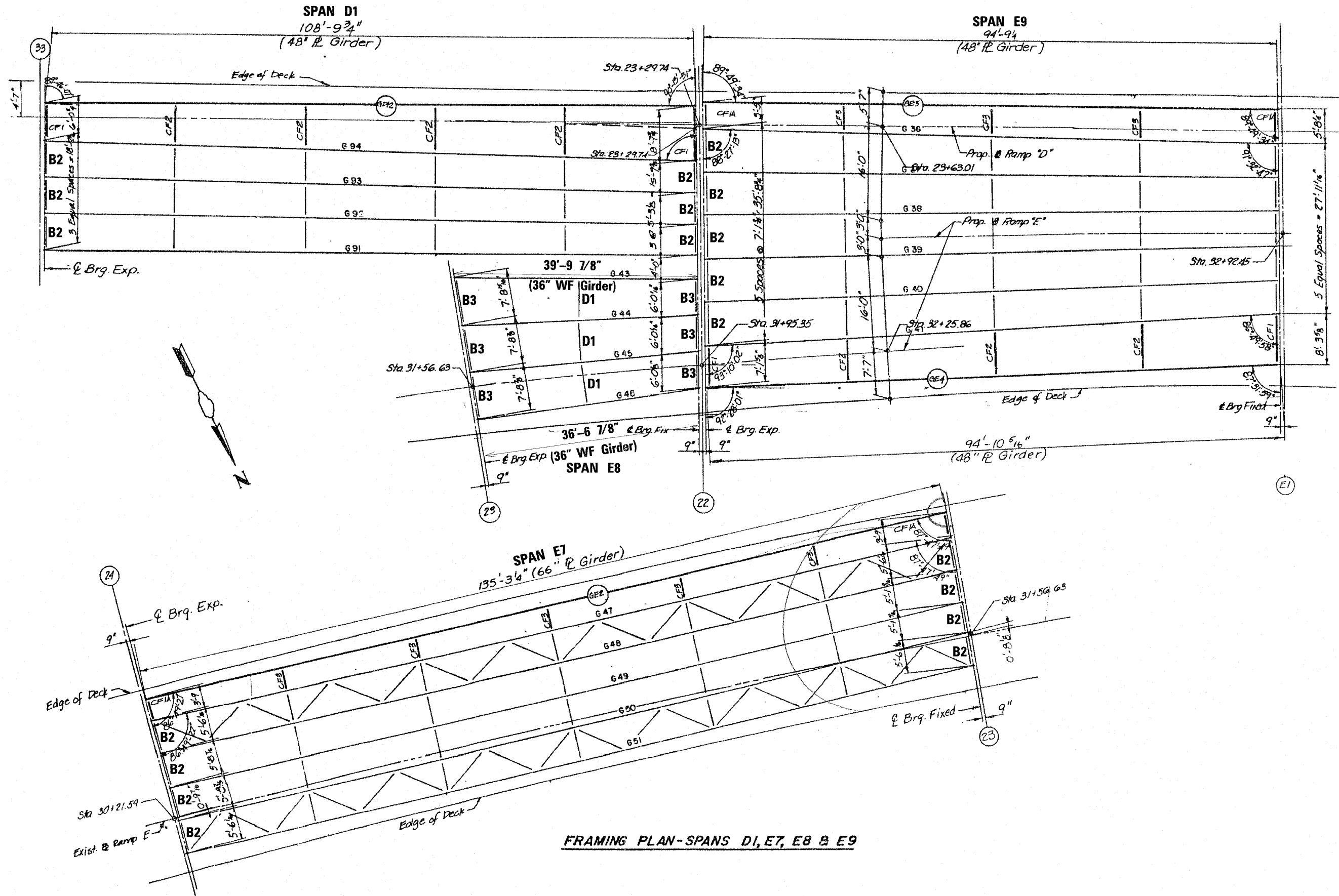


FRAMING PLAN - SPANS E1, E2 & E3



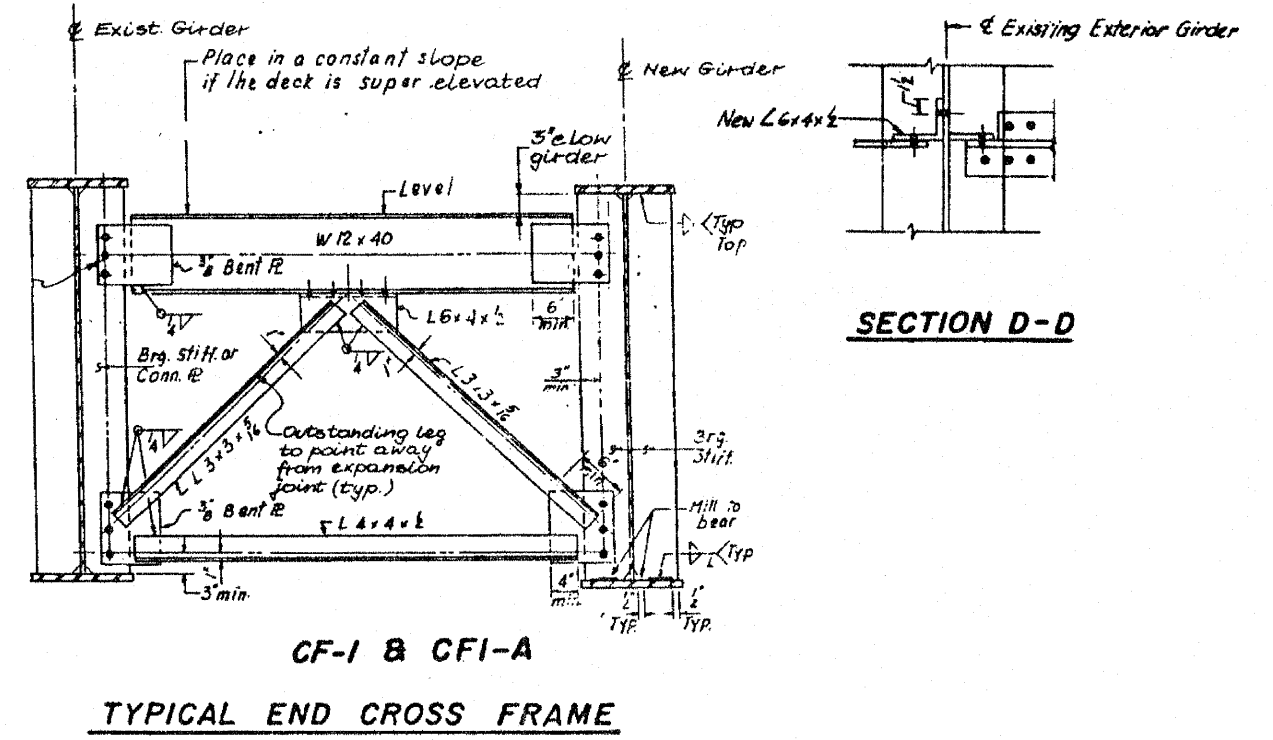
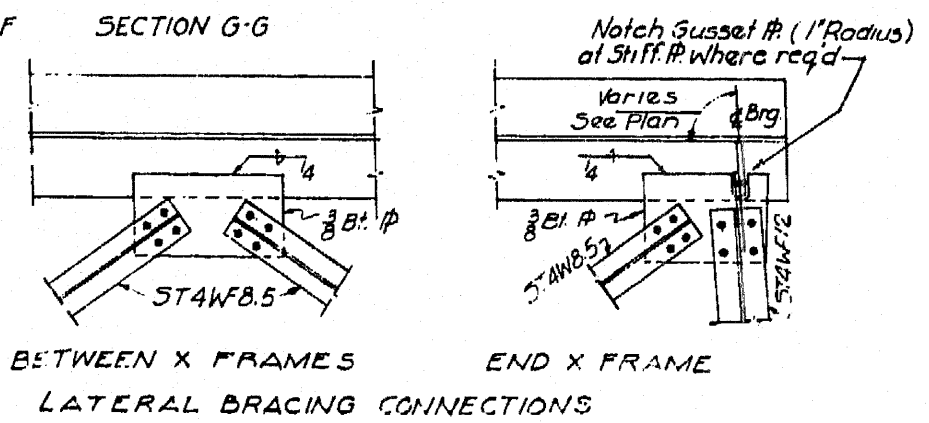
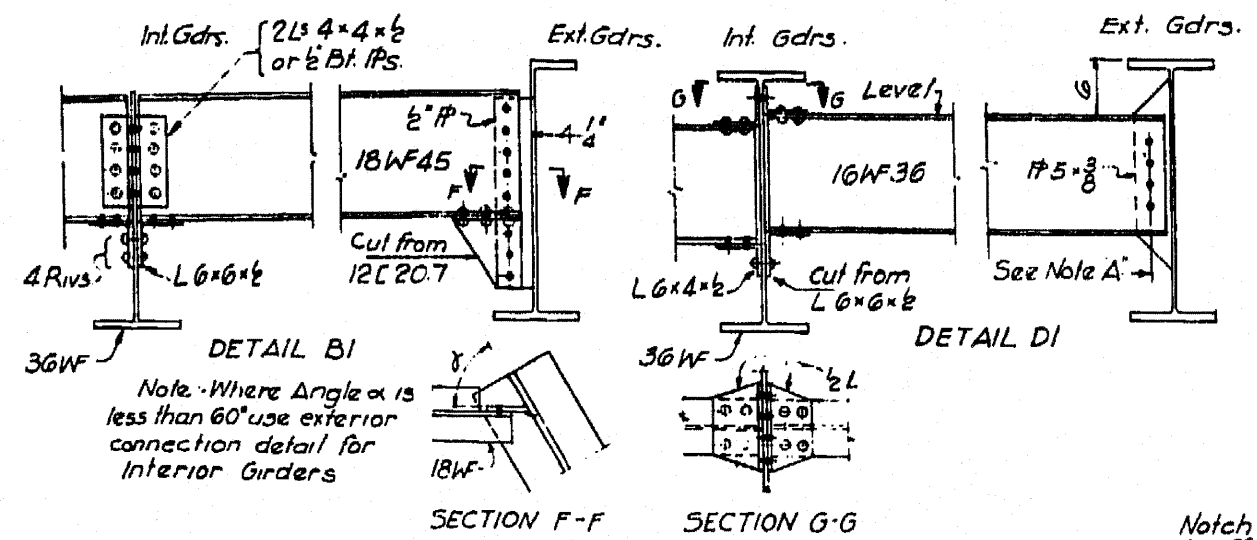
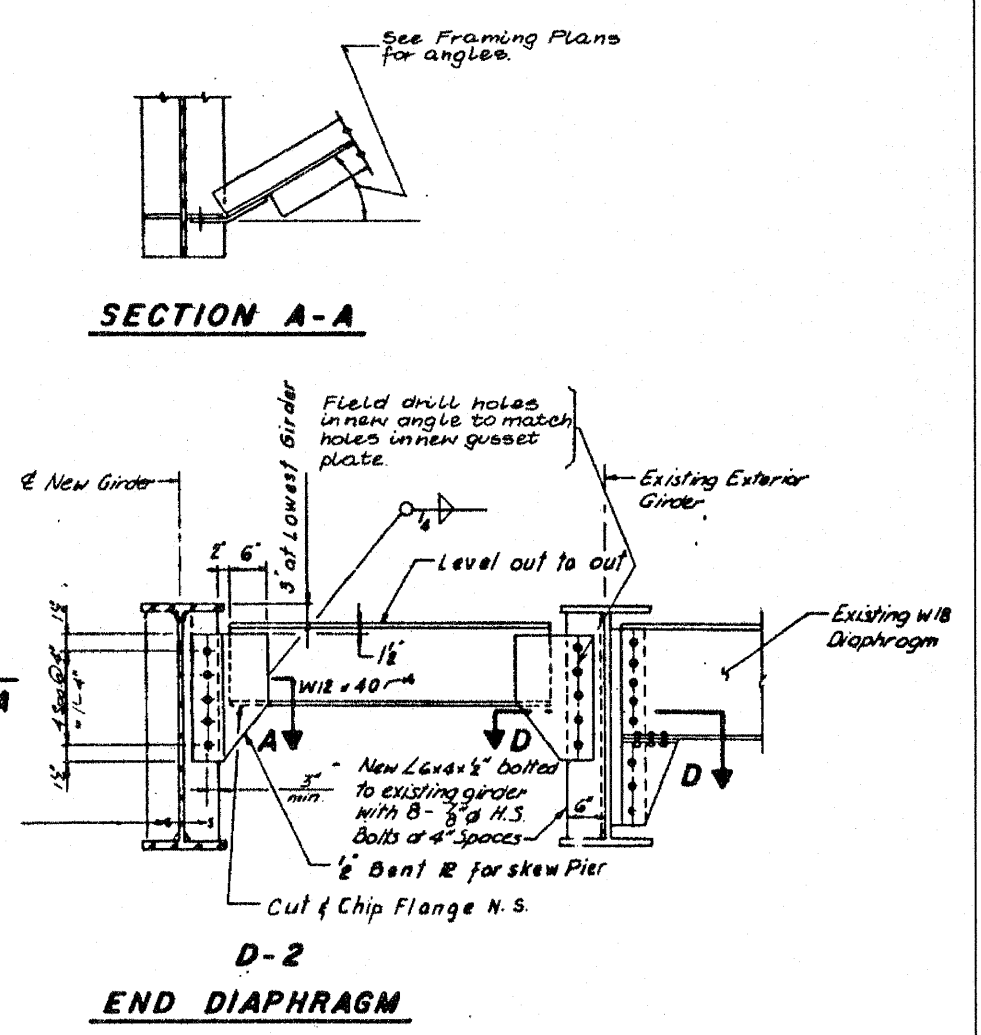
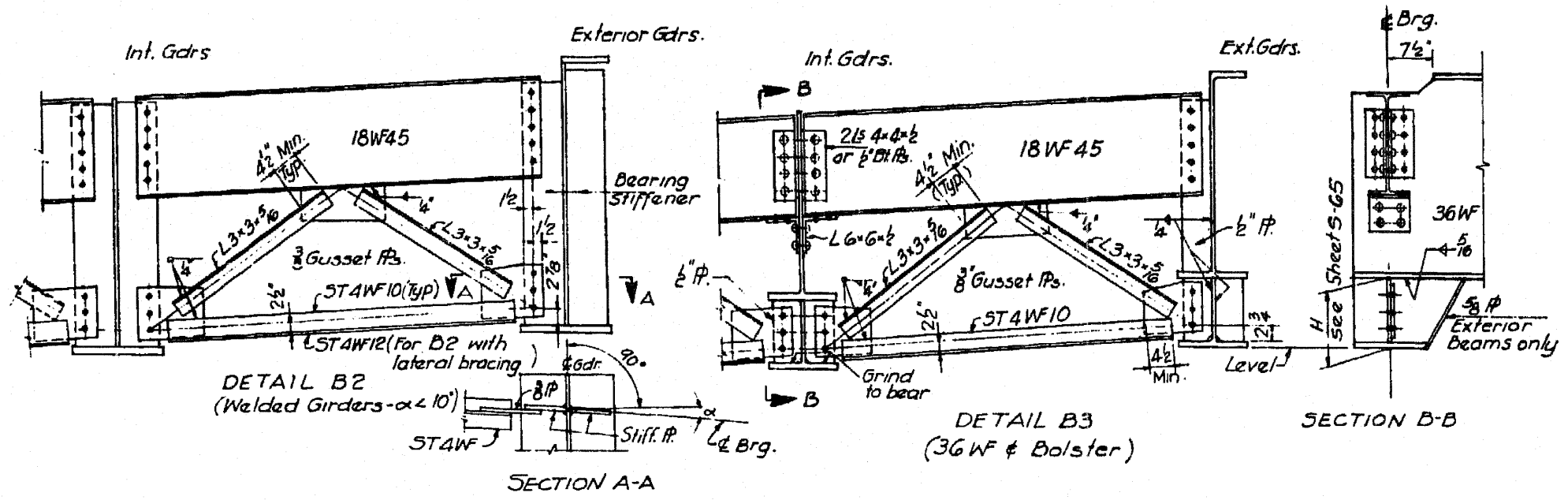
FRAMING PLAN - SPANS E4, E5 & E6

FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS E1 TO E6 - LOCATION 9		F.A.I. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8" = 1'-0"	DRAWN - AMR	REVISED -		94	2010-127-BP	COOK	160	129		
	PLOT DATE = 3/28/2011	CHECKED - JMH	REVISED -		STRUCTURE NO. 016-1047		CONTRACT NO. 60N01				
	DATE - MARCH, 2011	REVISED -		SCALE: NTS	SHEET NO. 3 OF 9 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

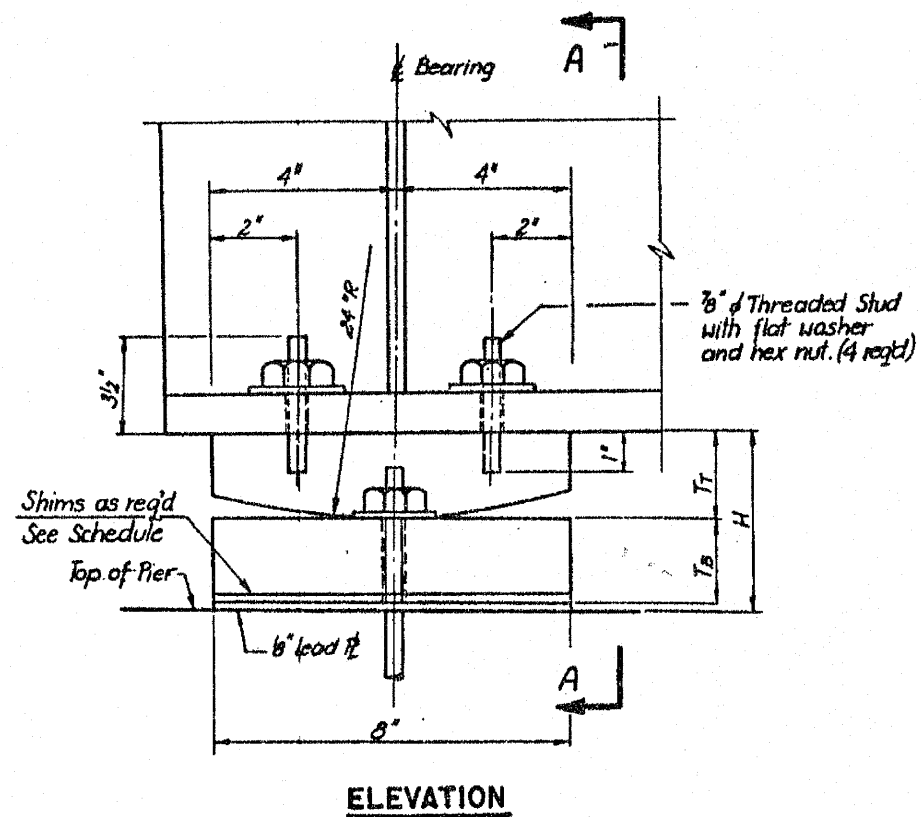


FRAMING PLAN- SPANS D1, E7, E8 & E9

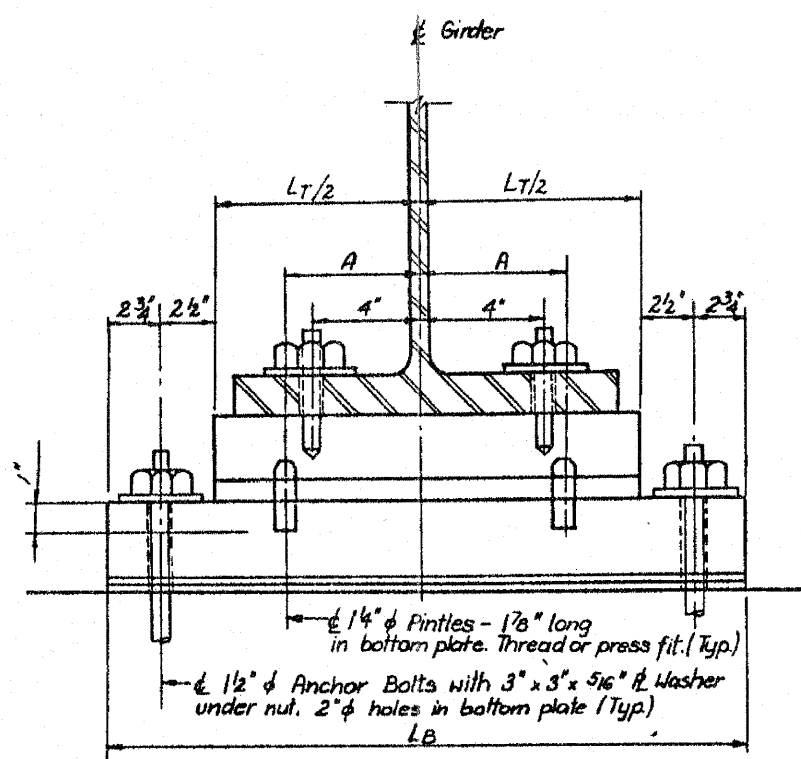
FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS D1 & E7 TO E9 - LOCATION 9 STRUCTURE NO. 016-1047	F.A.I. RTE. = 94	SECTION = 2010-127-BP	COUNTY = COOK	TOTAL SHEETS = 160	SHEET NO. = 130
	PLOT SCALE = 1/8" = 1'-0"	DRAWN - AMR	REVISED -			SCALE: NTS	SHEET NO. 4 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60N01	
PLOT DATE = 3/28/2011	CHECKED - JMH	DATE - MARCH, 2011	REVISED -	ILLINOIS FED. AID PROJECT						



FILE NAME =	USER NAME = rge1	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM & CROSS FRAME DETAILS - LOCATION 9 STRUCTURE NO. 016-1047	F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 132		
PLOT SCALE = 1/8" = 1'-0"	DRAWN - AMR	CHECKED - JMH	REVISED -			SCALE: NTS	SHEET NO. 6 OF 9 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -	REVISED -			CONTRACT NO. 60N01						



ELEVATION

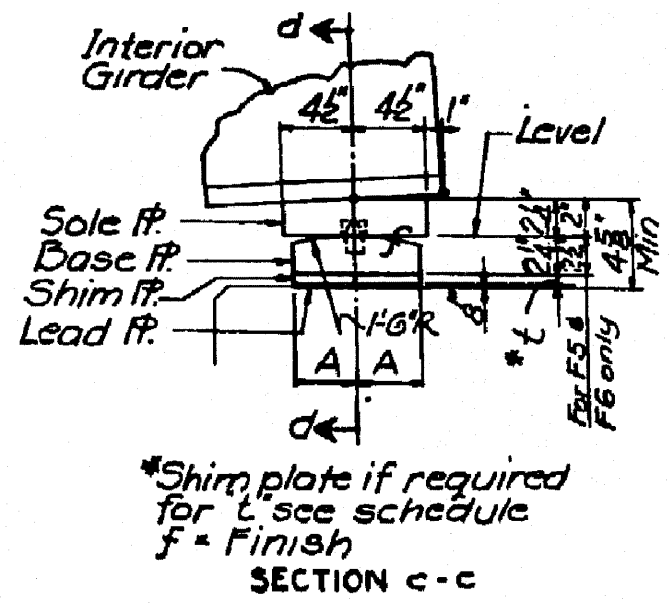


SECTION A-A

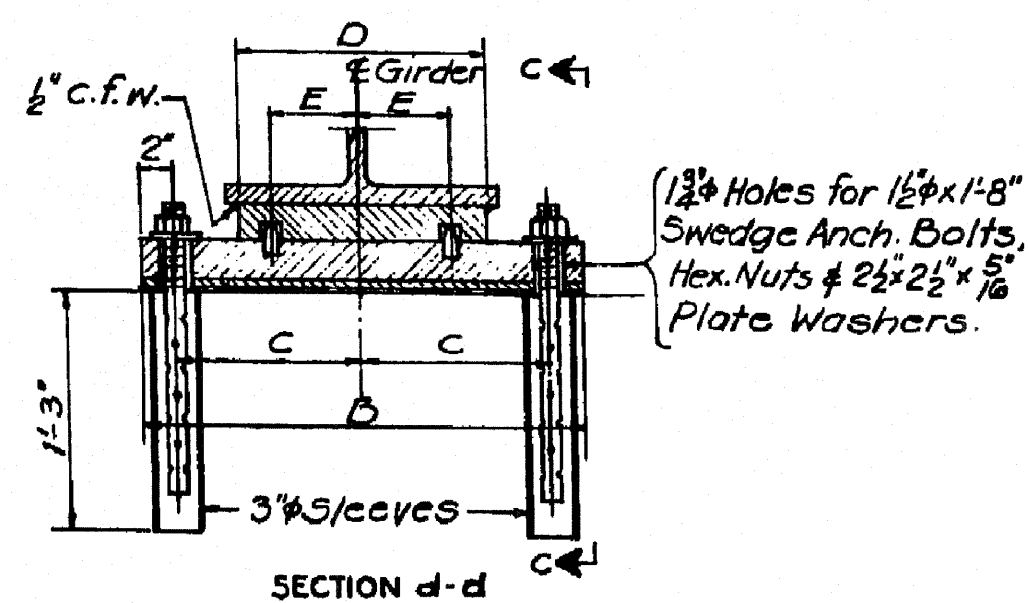
FIXED BEARING - TYPE F1

FIXED BEARING SCHEDULE

STRUCTURE NO.	PIER LOCATION	GIRDER NO.	B.I.G. TYPE	NO. REQD.	T _T "	L _T "	T _B "	L _B "	A"	H"
016-1047	23(S)	G47	F1	1	2 1/2	17	2	27 1/2	5	4 5/8
	22(S)	G51	F1	1	2 1/2	17	2	27 1/2	5	4 5/8



SECTION c-c

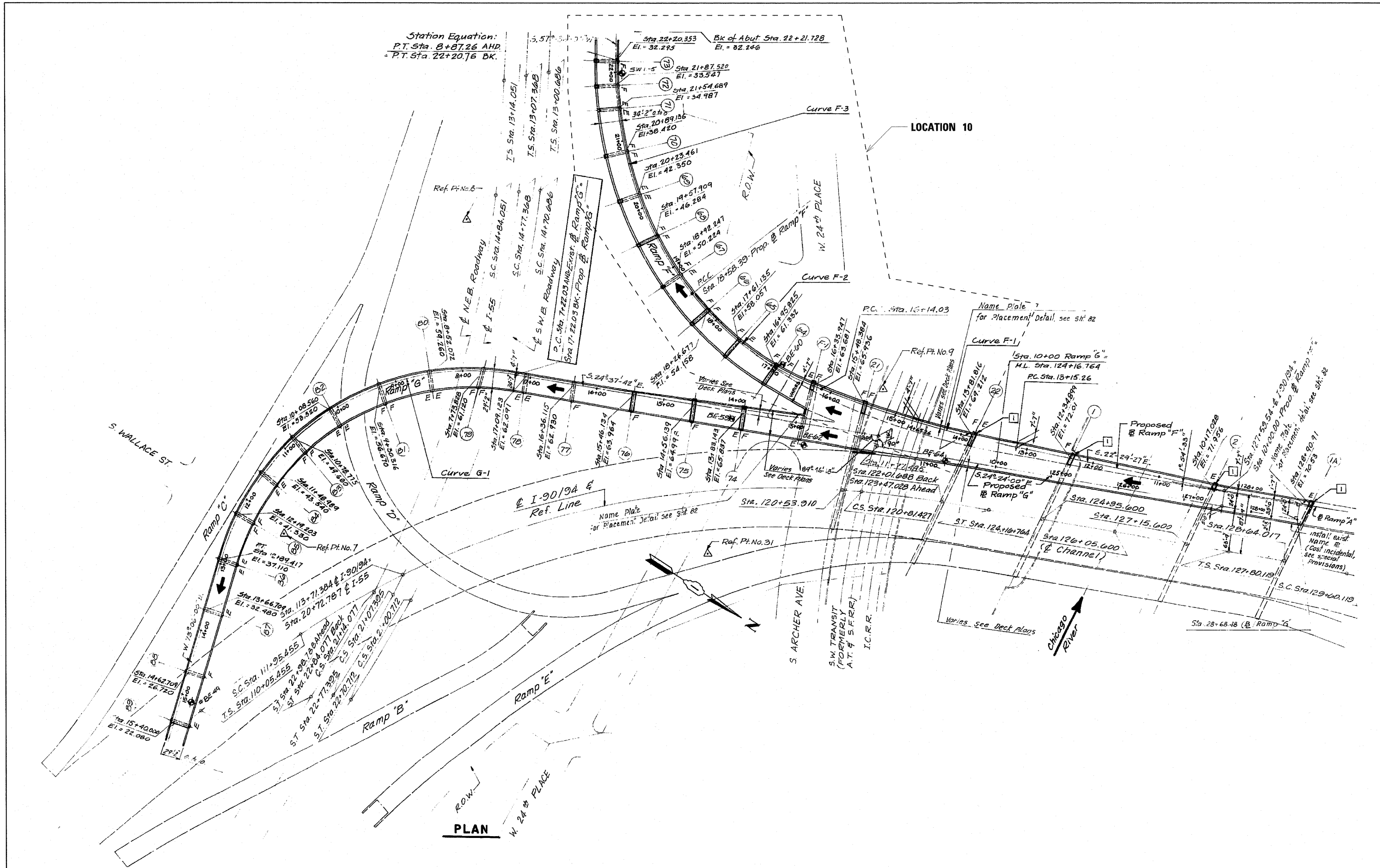


SECTION d-d

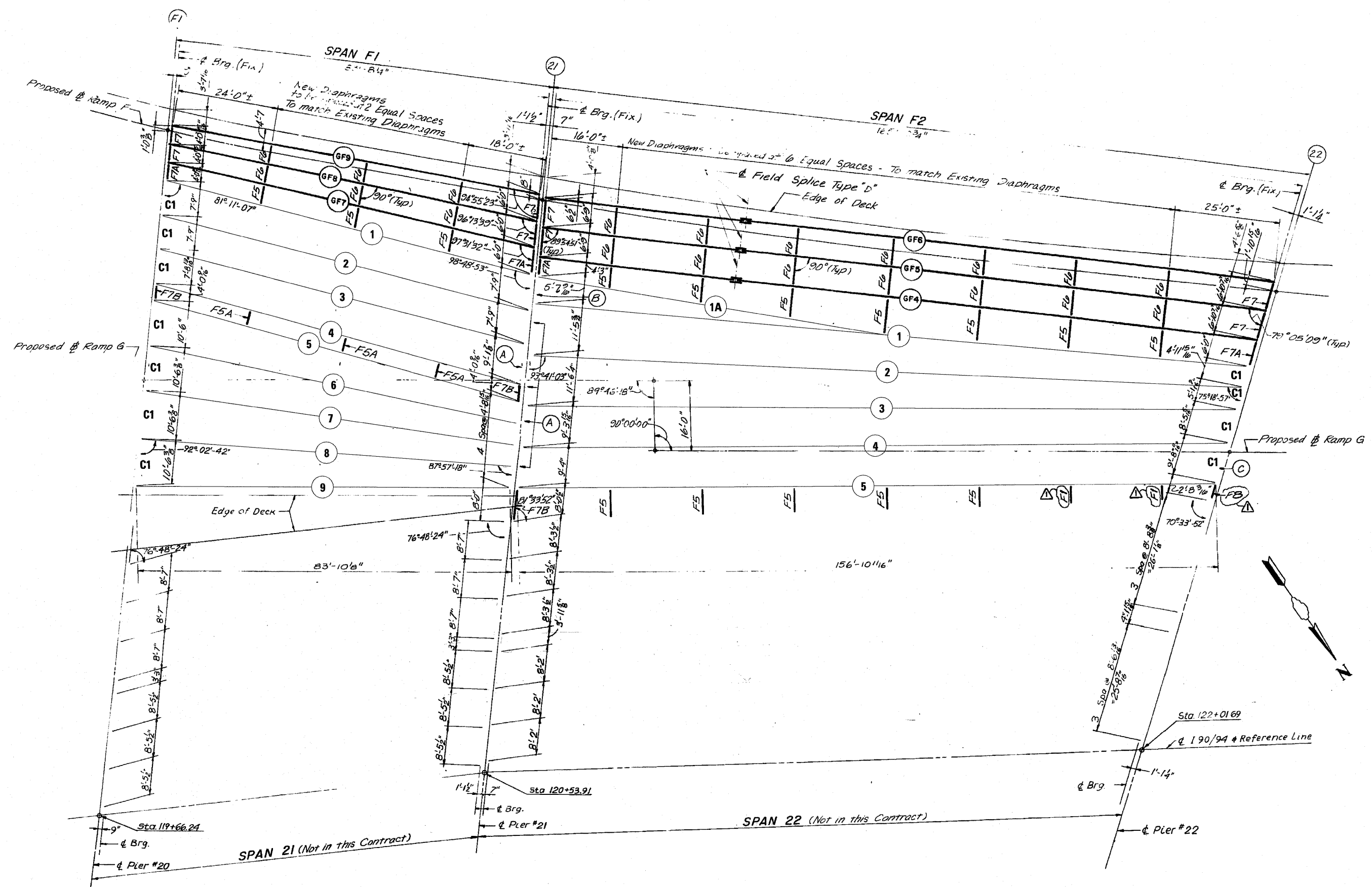
FIXED BEARING DETAILS

FIXED BEARING SCHEDULE

MARK	DIMENSIONS					REMARKS
	A	B	C	D	E	
F	4"	2'-3"	11 1/2"	1'-3"	5 1/2"	Typical for 16" flange
F2	4"	1'-10 1/2"	9 1/2"	11"	3 1/2"	Typical for 12" flange
F5	6"	2'-3"	11 1/2"	1'-3"	5 1/2"	Girder G47, Pier 23
F7	4 1/2"	2'-3"	11 1/2"	1'-3"	5 1/2"	Girder G51, Pier 23

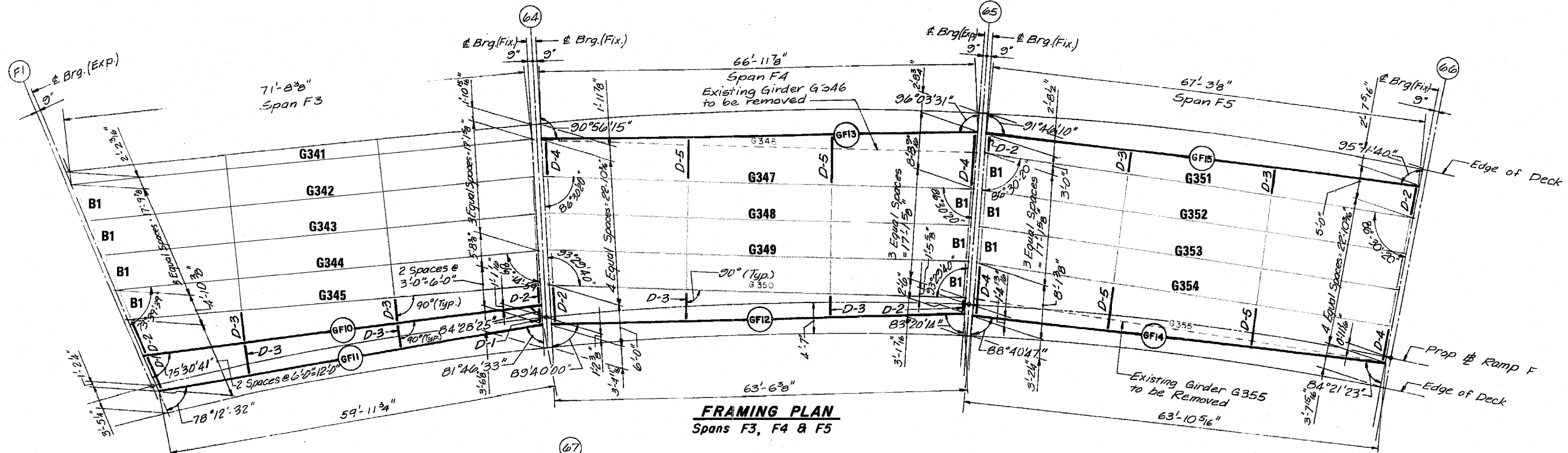


FILE NAME =	USER NAME = rgall	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN - LOCATION 10			F.A.I. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1.0000' / IN.	DRAWN - AMR	REVISED -		94	2010-127-BP	COOK	160	136			
PLOT DATE = 3/28/2011	CHECKED - JMH	REVISED -	REVISED -	SCALE: NTS	SHEET NO. 1 OF 12 SHEETS	STA.	TO STA.	CONTRACT NO. 60N01				
DATE - MARCH, 2011	REVISED -	REVISED -	REVISED -	ILLINOIS FED. AID PROJECT								

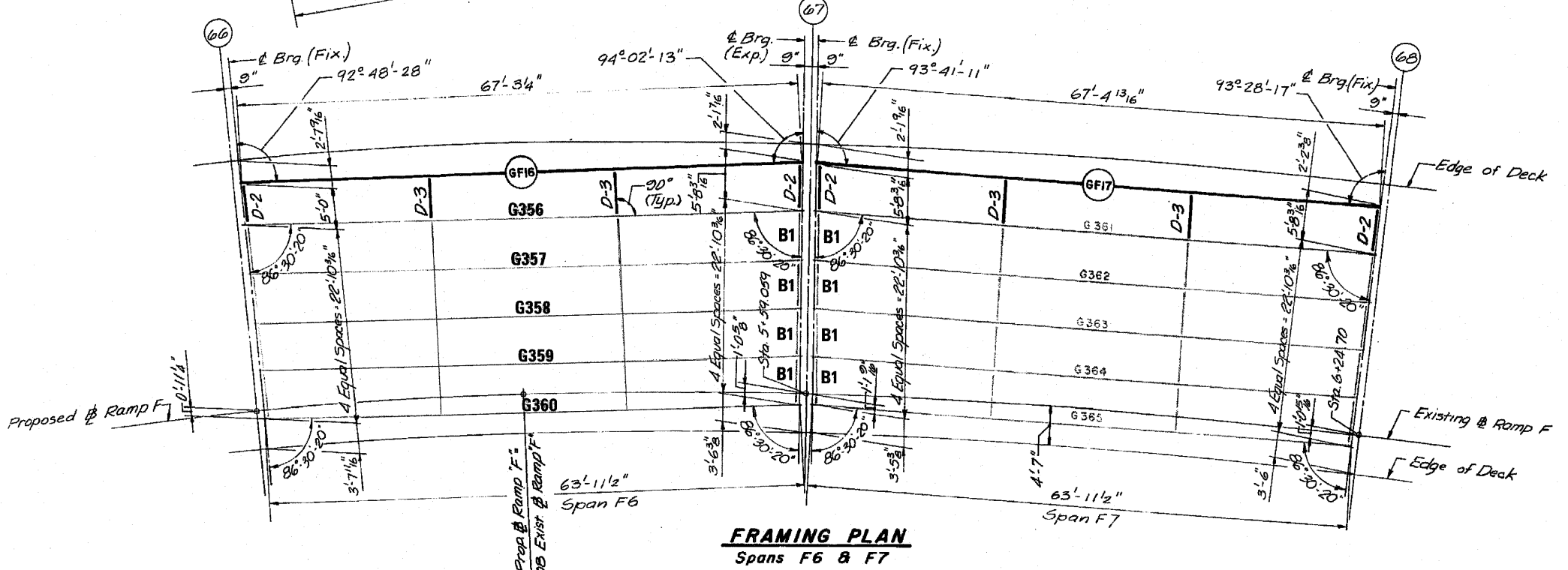


FRAMING PLAN
Spans F1 & F2

FILE NAME =	USER NAME = rgal1	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS F1 & F2 - LOCATION 10 STRUCTURE NO. 016-1062		F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 138
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - JMH	REVISED -		SCALE: NTS	SHEET NO. 3 OF 12 SHEETS	STA. TO STA.	CONTRACT NO. 60N01 ILLINOIS FED. AID PROJECT			
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -								

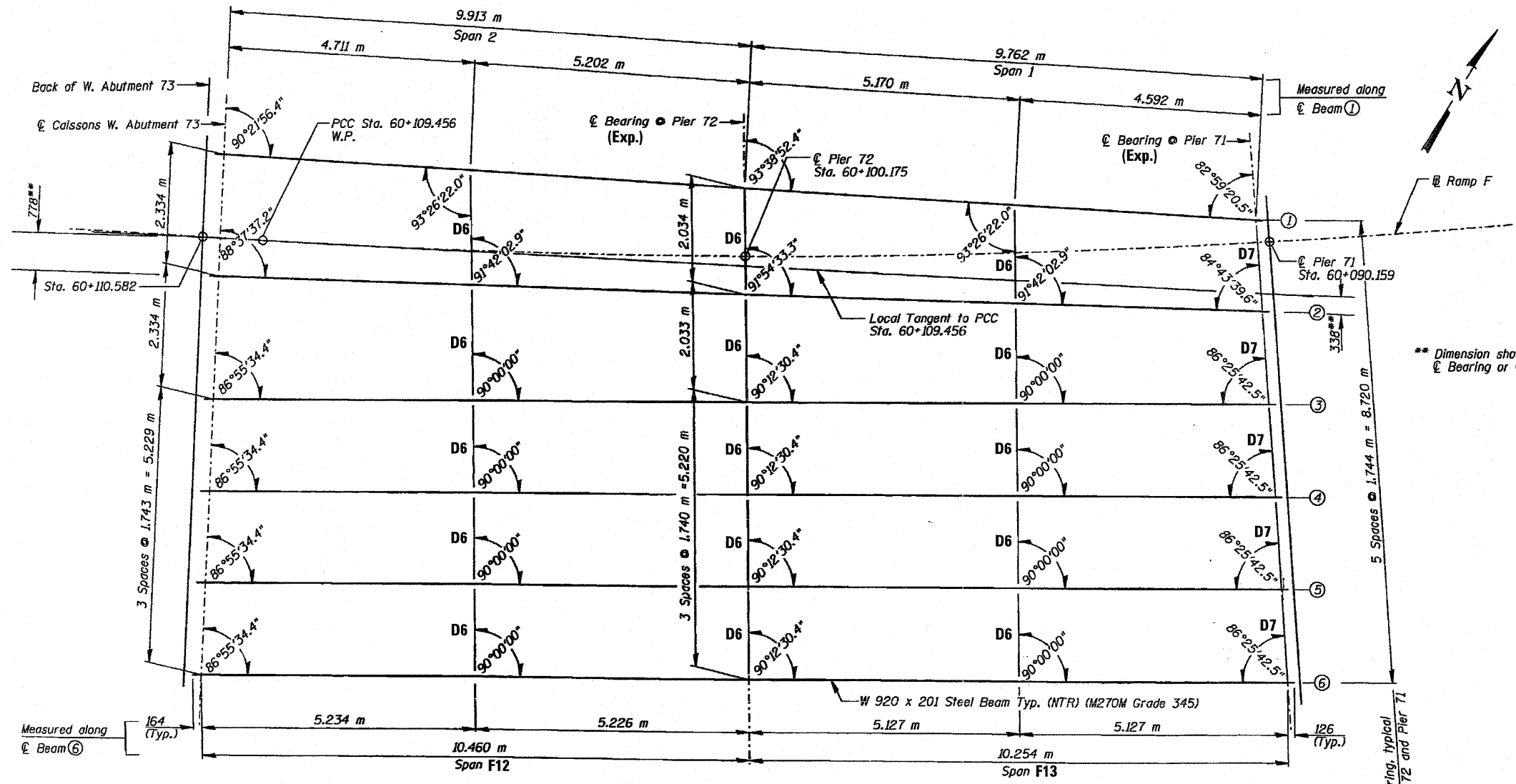


FRAMING PLAN
Spans F3, F4 & F5



FRAMING PLAN
Spans F6 & F7

FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS F3 TO F7 - LOCATION 10 STRUCTURE NO. 016-1062	F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 139
	PLOT SCALE = 1/8" = 1' IN.	CHECKED - JMH	REVISED -			SCALE: NTS	SHEET NO. 4 OF 12 SHEETS	STA. TO STA.	CONTRACT NO. 60N01	
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -							

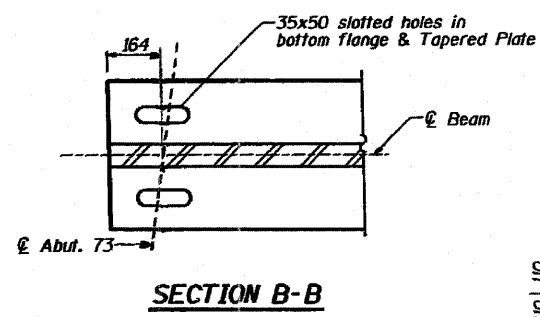
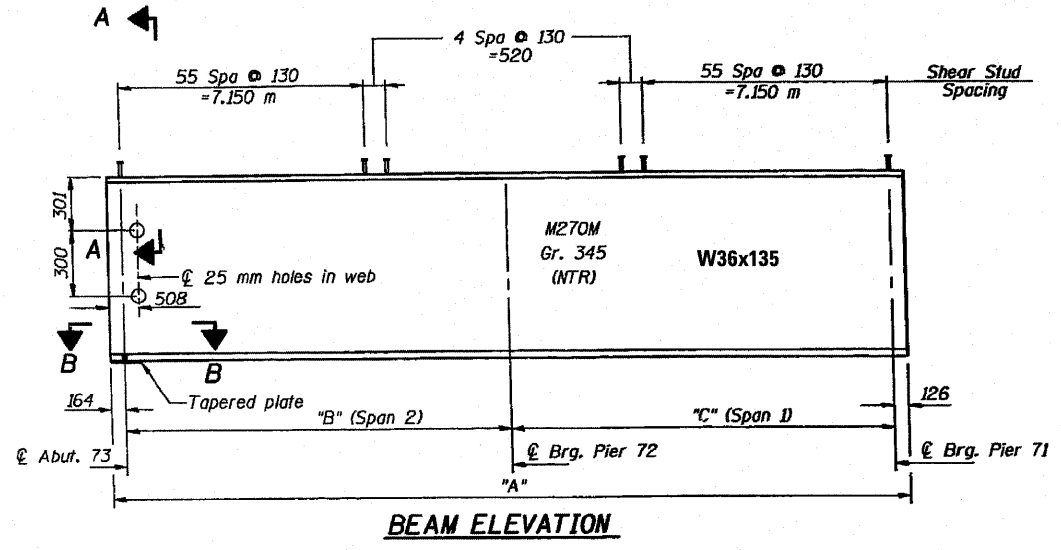


LEGEND

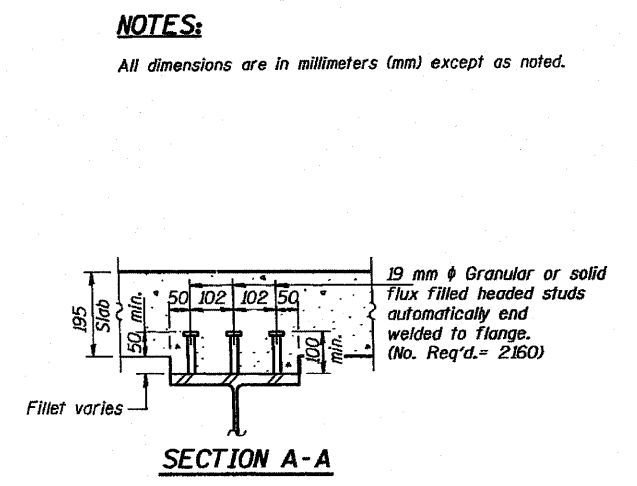
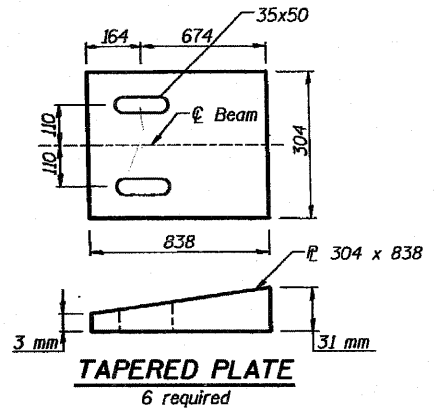
W.P. Denotes Work Point

ϕ Denotes Beam Number

NTR denotes Notch Toughness Requirements.

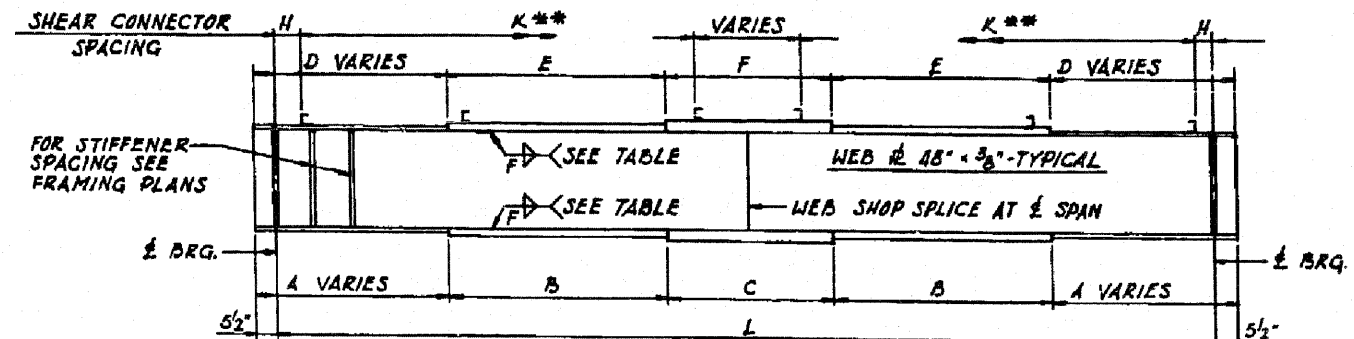


Location	"A" (m)	"B" (m)	"C" (m)
Beam 1	19.965	9.913	9.762
Beam 2	20.172	10.032	9.850
Beam 3	20.397	10.160	9.947
Beam 4	20.600	10.260	10.050
Beam 5	20.801	10.359	10.152
Beam 6	21.004	10.460	10.254

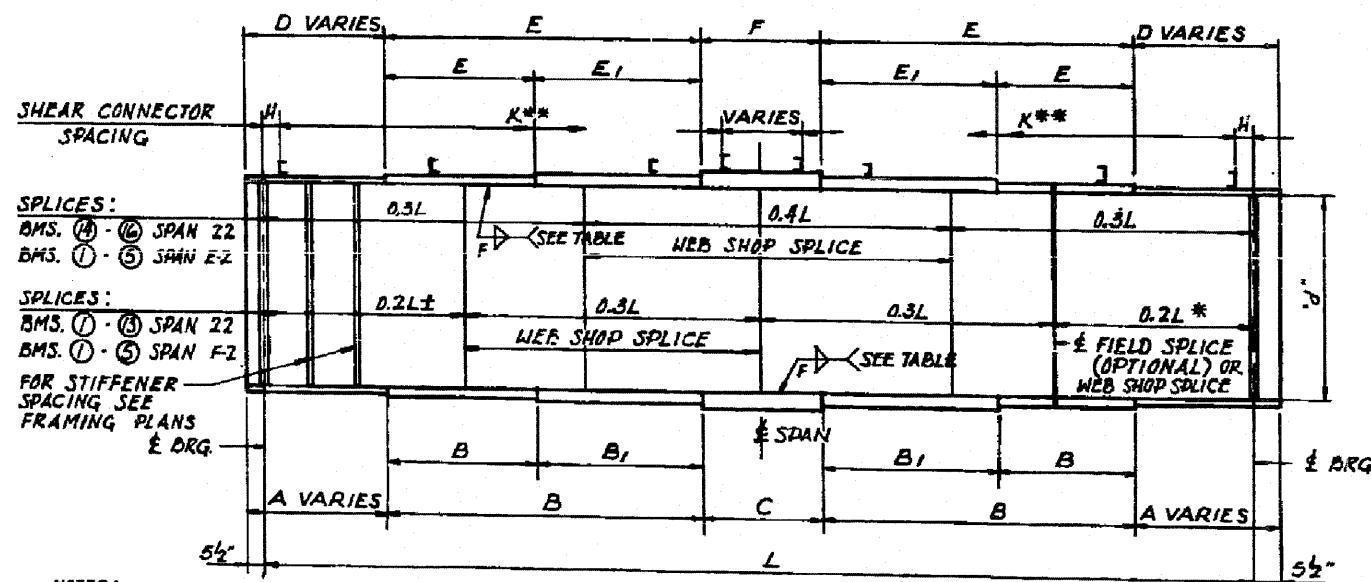


NOTES:

All dimensions are in millimeters (mm) except as noted.



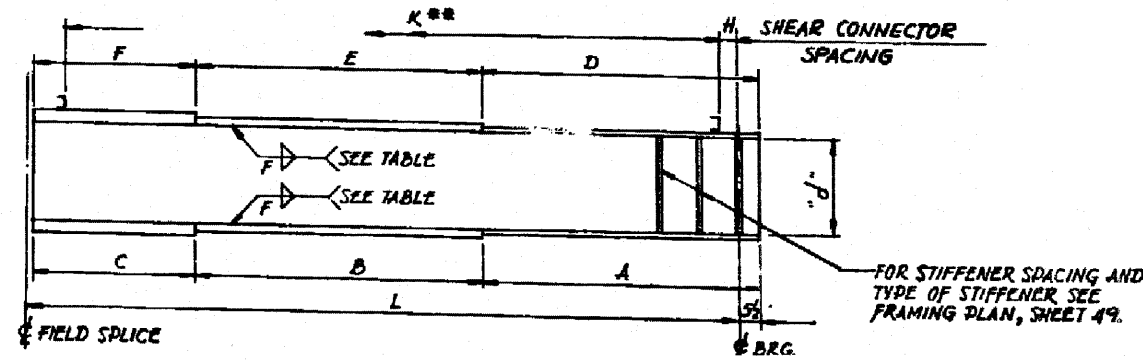
TYPICAL ELEVATION OF 48" WELDED PLATE BEAMS-SPAN F-1



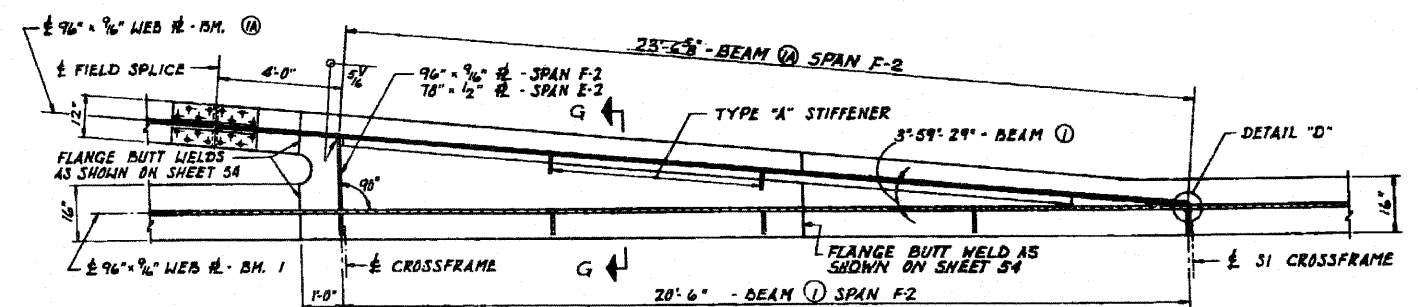
NOTES:
 0.2L - DIMENSION CAN BE ADJUSTED TO AVOID INTERFERENCE WITH INTERMEDIATE STIFFENERS AND LATERAL BRACING CONNECTIONS.

78" x 1/2" WEB # - SPAN E-2
 96" x 3/8" WEB # - SPANS Z2 AND F-2

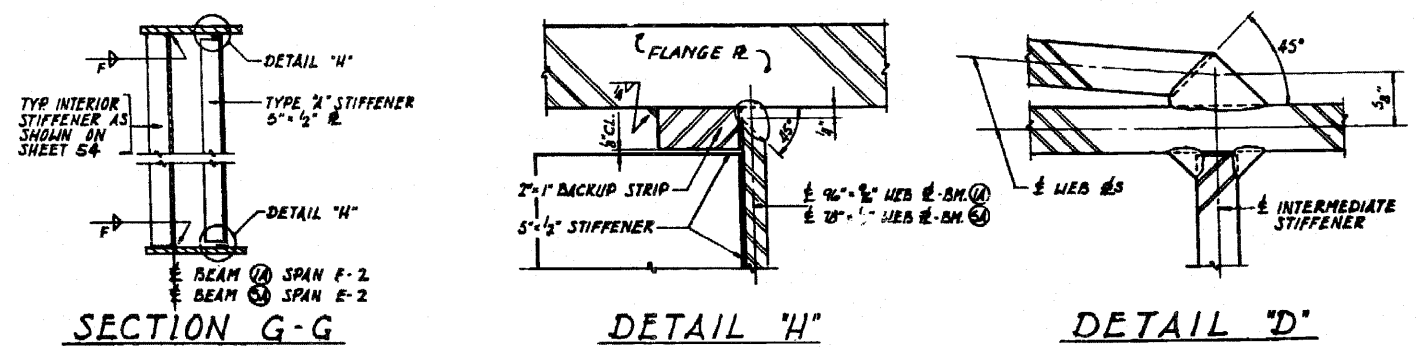
TYPICAL ELEVATION OF 96" WELDED PLATE BEAMS EXCEPT BEAM (A) SPAN F-2



TYPICAL ELEVATION OF 96" WELDED PLATE BEAM (A)

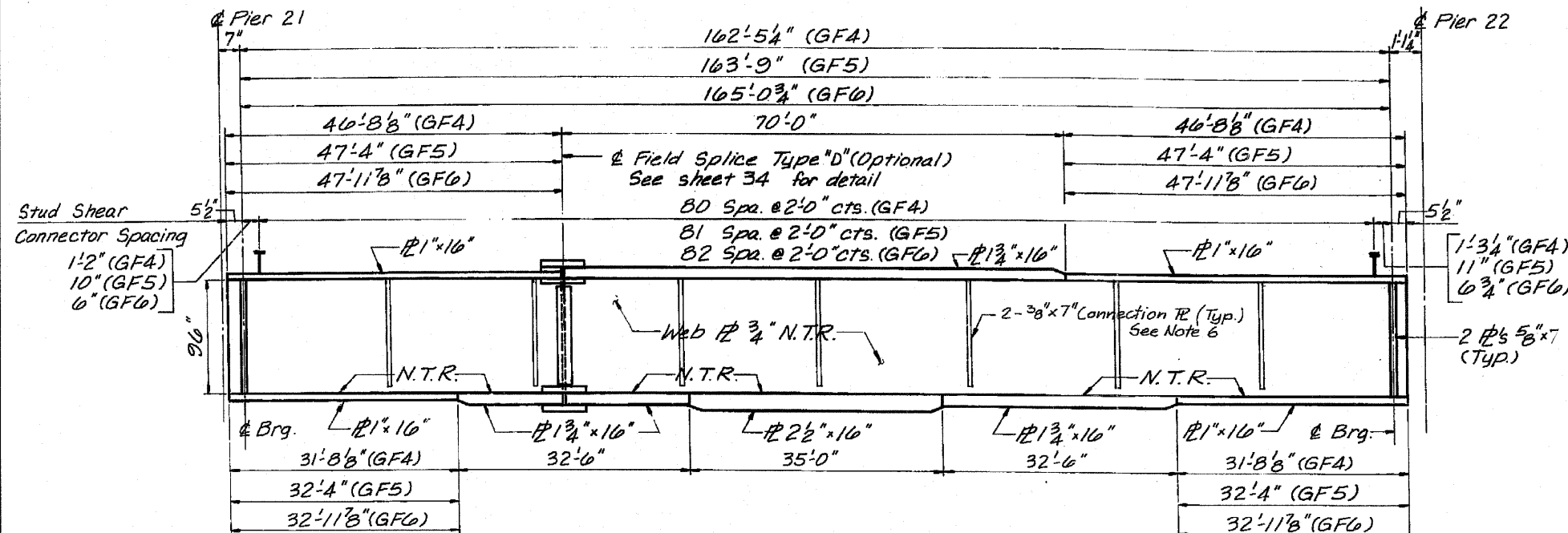


CONNECTION DETAIL OF BEAM (A) TO BEAM (1) SPAN F-2 - SHOWN



WELDED PLATE BEAM SCHEDULE

SPAN	BEAM	L	d	t	BOTTOM FLANGE PLATES			TOP FLANGE PLATES		
					A	B OR B, B1	C	D	E OR E, E1	F
F1	1	84'-4 1/16	48	3/8	16x1 1/2	16x1 3/4 x 14'-0"	16x2 x 27'-0"	16x3/4	---	16x1 1/8 x 45'-0"
	2	84'-4 1/16	48	3/8	16x1	---	16x1 7/8 x 56'-0"	16x3/4	---	16x7/8 x 19'-0"
	3	84'-4 1/16	48	3/8	16x1	---	16x1 7/8 x 56'-0"	16x3/4	---	16x7/8 x 19'-0"
	4	84'-7 1/16	48	3/8	16x1 1/4	---	16x2 x 53'-0"	16x3/4	---	16x1 x 38'-0"
	5	84'-7 1/16	48	3/8	16x1 1/4	16x2 1/4 x 18'-6"	16x2 1/2 x 19'-0"	16x3/4	---	16x1 5/8 x 56'-6"
	6	83'-9 7/8	48	3/8	16x1 1/2	16x2 1/4 x 17'-0"	16x2 1/2 x 17'-0"	16x3/4	---	16x1 1/2 x 55'-0"
	7	83'-5 5/8	48	3/8	16x1	---	16x1 5/8 x 52'-0"	---	---	16x3/4
	8	83'-5 5/8	48	3/8	16x1	---	16x1 5/8 x 52'-0"	---	---	16x3/4
	9	83'-10 3/8	48	3/8	16x1 1/2	16x1 3/4 x 14'-0"	16x2 x 27'-0"	16x3/4	---	16x1 1/8 x 45'-0"
F2	1A	55'-7 1/16	96	9/16	12x1	12x1 1/2 x 20'-0"	12x2 x 18'-0"	12x3/4	12x1 x 20'-0"	12x1 1/2 x 18'-0"
	***1	161'-4"	96	9/16	SEE SCHEMATIC PLAN	26x3 1/2 x 46'-4"	SEE SCHEMATIC PLAN	---	---	26x3 x 46'-4"
	2	160'-2 1/16	96	9/16	16x1	16x2 x 13'-6"	16x3 x 35'-0"	16x7/8	16x1 3/4 x 36'-0"	16x2 x 44'-0"
	3	160'-2 1/16	96	9/16	16x1	16x2 x 13'-6"	16x3 x 35'-0"	16x7/8	16x1 3/4 x 36'-0"	16x2 x 44'-0"
	4	158'-9 1/16	96	9/16	16x1	16x2 x 13'-6"	16x3 x 35'-0"	16x7/8	16x1 3/4 x 36'-0"	16x2 x 44'-0"
5	156'-10 1/16	96	9/16	16x1 1/2	16x2 1/2 x 22'-0"	16x3 1/2 x 29'-6"	16x1	16x2 x 37'-0"	16x2 1/4 x 46'-0"	



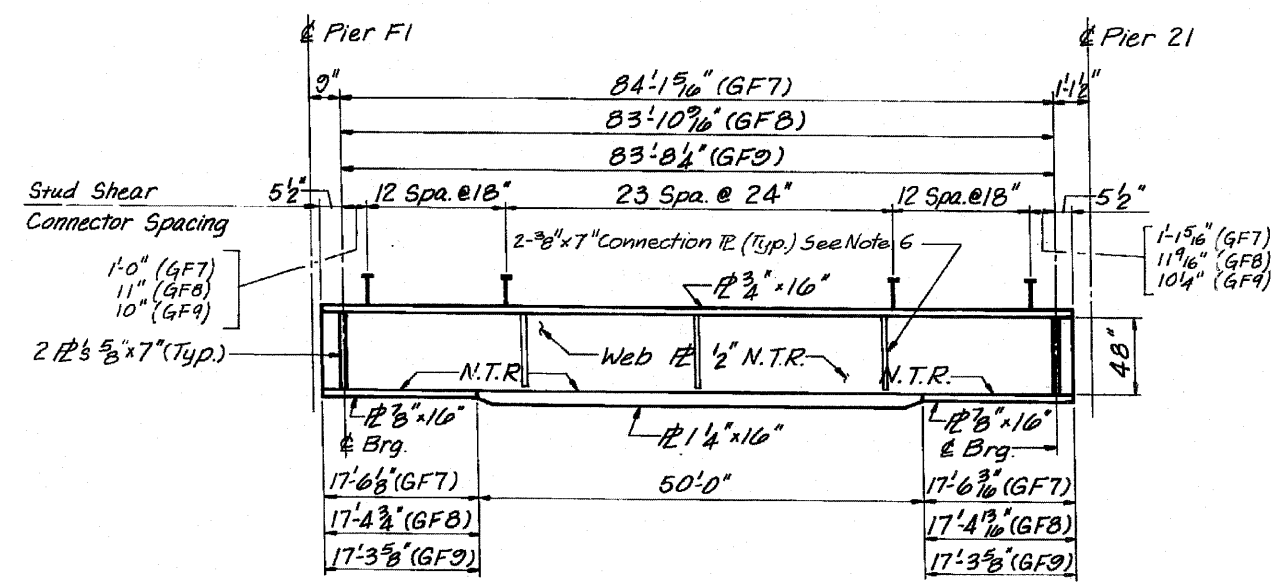
GIRDERS GF4 THRU GF6 ELEVATION - SPAN F2
(Looking West)

GIRDER SCHEDULE

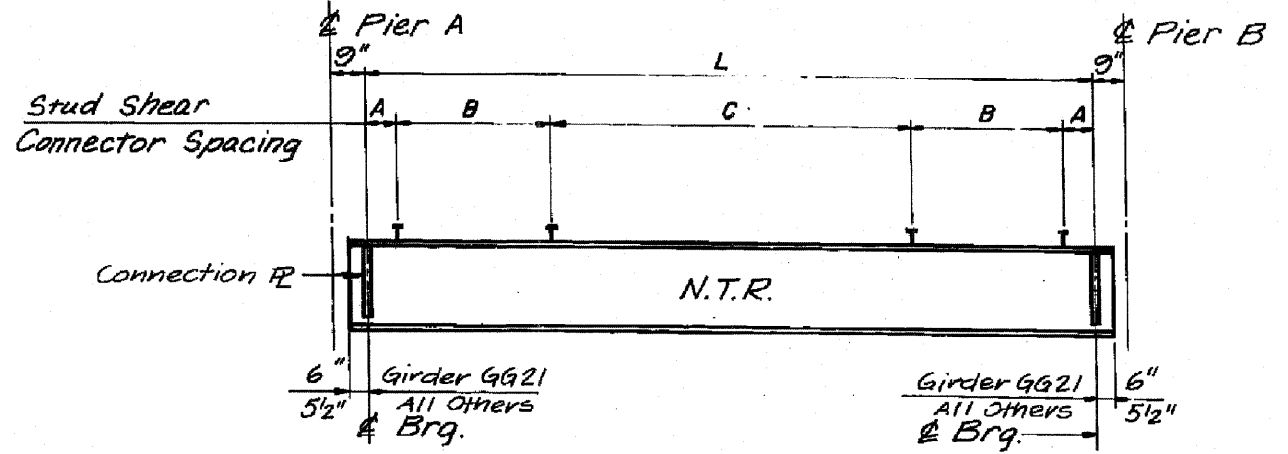
MARK	SECTION	COVER PLATES	
		SIZE	LENGTH
G341	36WF230	15"x8"	45'-6"
G342	36WF160	11"x2"	47'-6"
G343	36WF150	11"x2"	47'-6"
G344	36WF135	11"x9/16"	47'-6"
G345	36WF150	11"x2"	44'-6"
G351, G356, G361, G366, G371, G376	36WF160	11"x1 1/16"	48'-6"
G347, G352, G357, G362, G367, G372, G377	36WF135	11"x9/16"	47'-6"
G348, G353, G358, G363, G368, G373, G378	36WF135	11"x9/16"	47'-6"
G349, G354, G359, G364, G369, G374, G379	36WF135	11"x9/16"	47'-6"
G350, G360, G365, G370, G375, G380	36WF150	11"x2"	44'-6"

WIDE FLANGE BEAMS GF10 THRU GF20

SPAN	BEAM	BEAM SIZE	L (¢ BRG. TO ¢ BRG.)
F3	GF10	W36x150	61'-8 1/2"
F3	GF11	W36x150	59'-11 3/4"
F4	GF12	W36x135	63'-6 3/8"
F4	GF13	W36x134	66'-11 7/8"
F5	GF14	W36x182	63'-10 5/16"
F5	GF15	W36x150	67'-3 3/8"
F6	GF16	W36x170	67'-3 1/4"
F7	GF17	W36x170	67'-4 13/16"
F8	GF18	W36x170	67'-5 1/2"
F9	GF19	W36x170	67'-6"
F10	GF20	W36x170	67'-4 9/16"

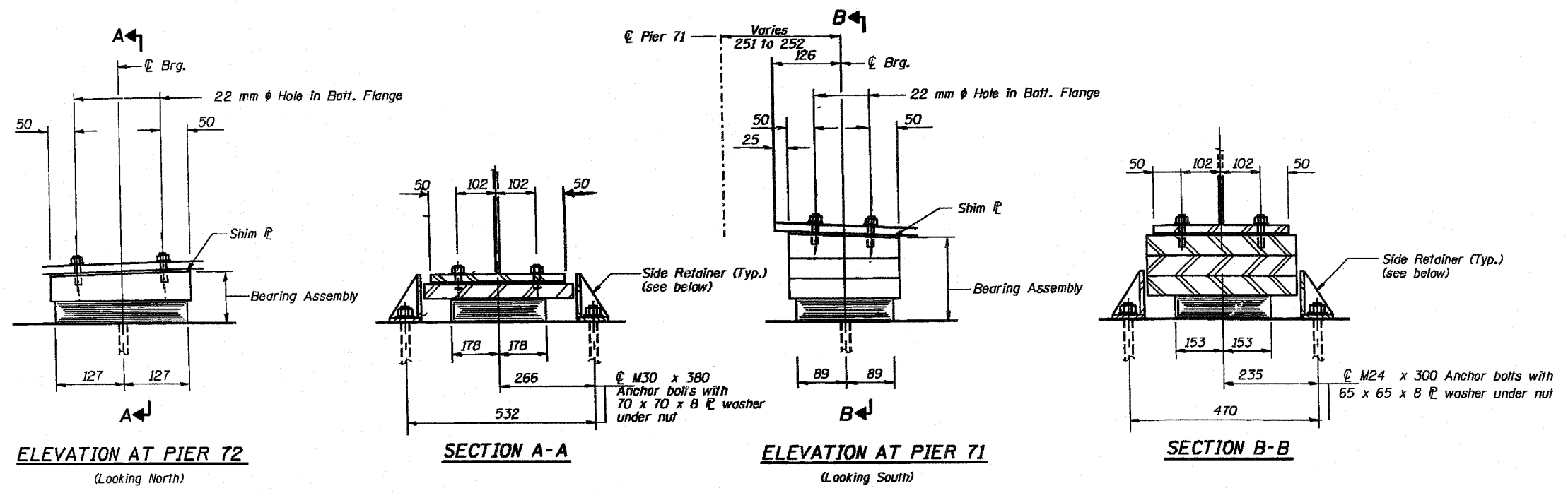


GIRDERS GF7 THRU GF9 ELEVATION - SPAN F1
(Looking West)



WIDE FLANGE BEAM ELEVATION

Girders GF10 thru GF20



ELEVATION AT PIER 72
(Looking North)

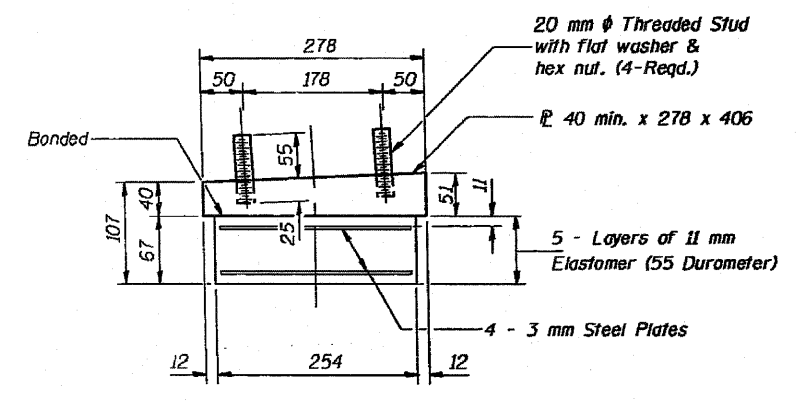
SECTION A-A

ELEVATION AT PIER 71
(Looking South)

SECTION B-B

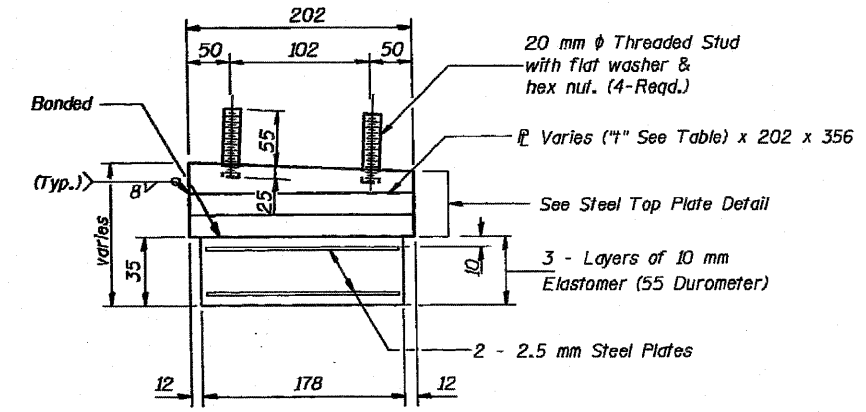
TYPE I ELASTOMERIC EXP. BRG.

TYPE I ELASTOMERIC EXP. BRG.



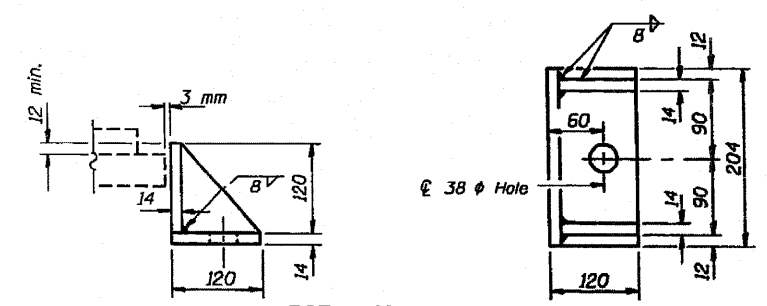
BEARING ASSEMBLY
(6 Required)

Note: Shim plates shall not be placed under Bearing Assembly.



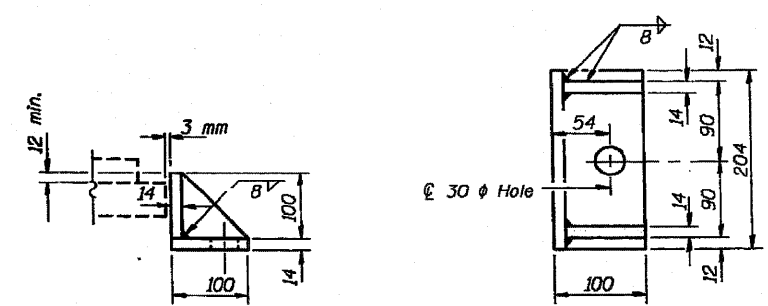
BEARING ASSEMBLY
(6 Required)

Notes: Shim plates shall not be placed under Bearing Assembly.



PIER 72 SIDE RETAINER

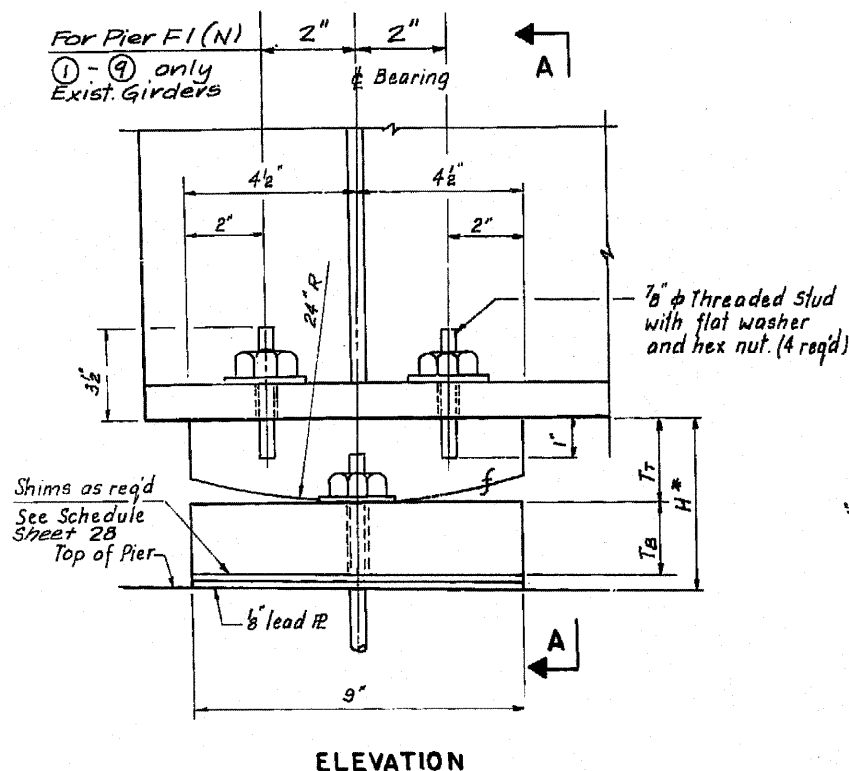
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Cost included with Furnishing Structural Steel.



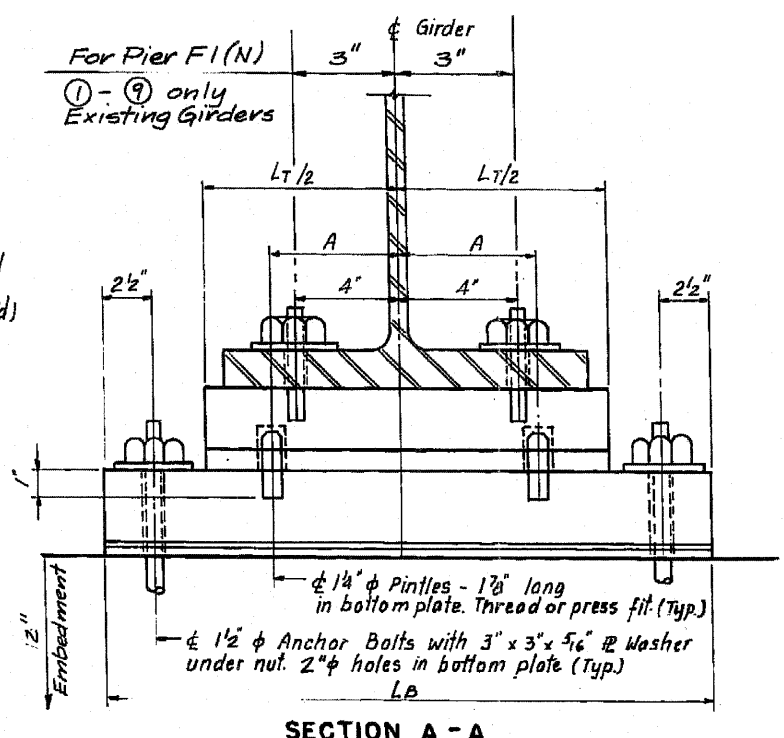
PIER 71 SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Cost included with Furnishing Structural Steel.

FILE NAME = USER NAME = rga11 PLOT SCALE = 1:2000 @ 1/4" IN. PLOT DATE = 3/28/2011	DESIGNED - AMR DRAWN - AMR CHECKED - JMH DATE - MARCH, 2011	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPE I ELASTOMERIC EXPANSION BEARING DETAILS - LOCATION 10 STRUCTURE NO. 016-1062			F.A.I. RTE. 94 SECTION 2010-127-BP COUNTY COOK TOTAL SHEETS 160 SHEET NO. 146 CONTRACT NO. 60N01 ILLINOIS FED. AID PROJECT
	SCALE: NTS SHEET NO. 11 OF 12 SHEETS STA. TO STA.						



ELEVATION



SECTION A-A

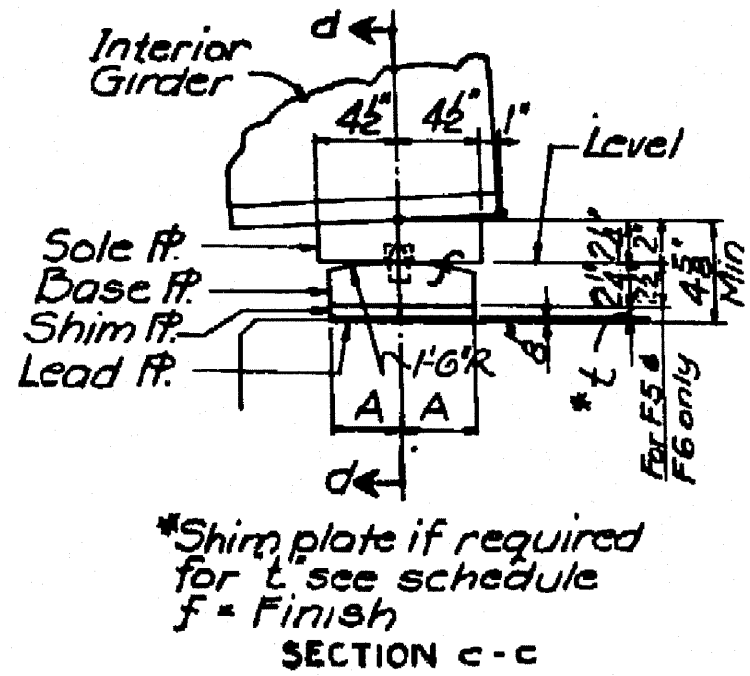
FIXED BEARING SCHEDULE - TYPE F1

STRUCTURE NO.	PIER LOCATION	GIRDER NO.	BRG TYPE	NO. REQ'D	T _T "	L _T "	T _B "	L _B "	A "	H "
016-1062	21(s)	GF7-GF9	F1	3	2 1/2	17	1 3/8	27	5	4
	F1(N)	① - ⑨	F1	9	2 1/2	17	1 3/8	27	5	4
	65(s)	GF14, GF15	F1	2	2 1/2	17	1 3/8	27	5	4
	67(s)	GF17	F1	1	2 1/2	17	1 3/8	27	5	4
	22(s)	GF4-GF6	F1	3	2 1/2	17	1 3/8	27	5	4

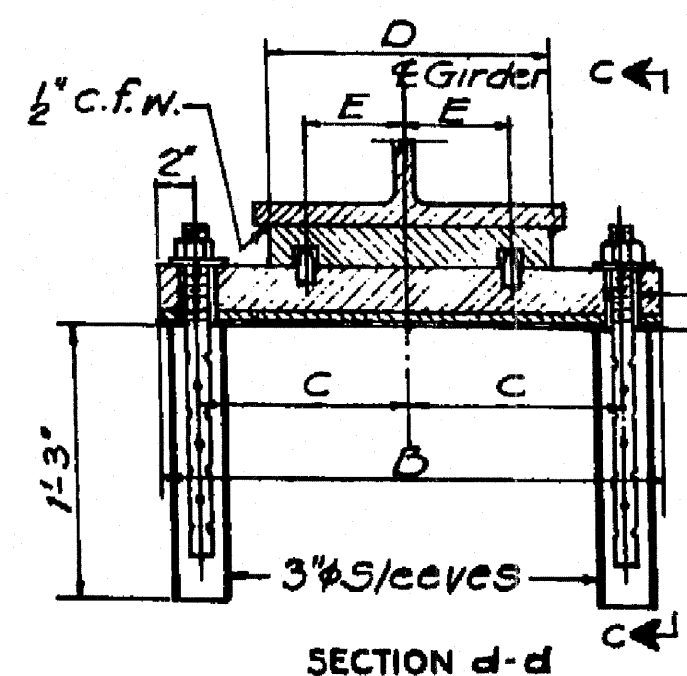
* H - height does not include Shim PL.

FIXED BEARING - TYPE F1

f = Surface finish shall have ANSI surface roughness value not exceeding 250.



SECTION c-c



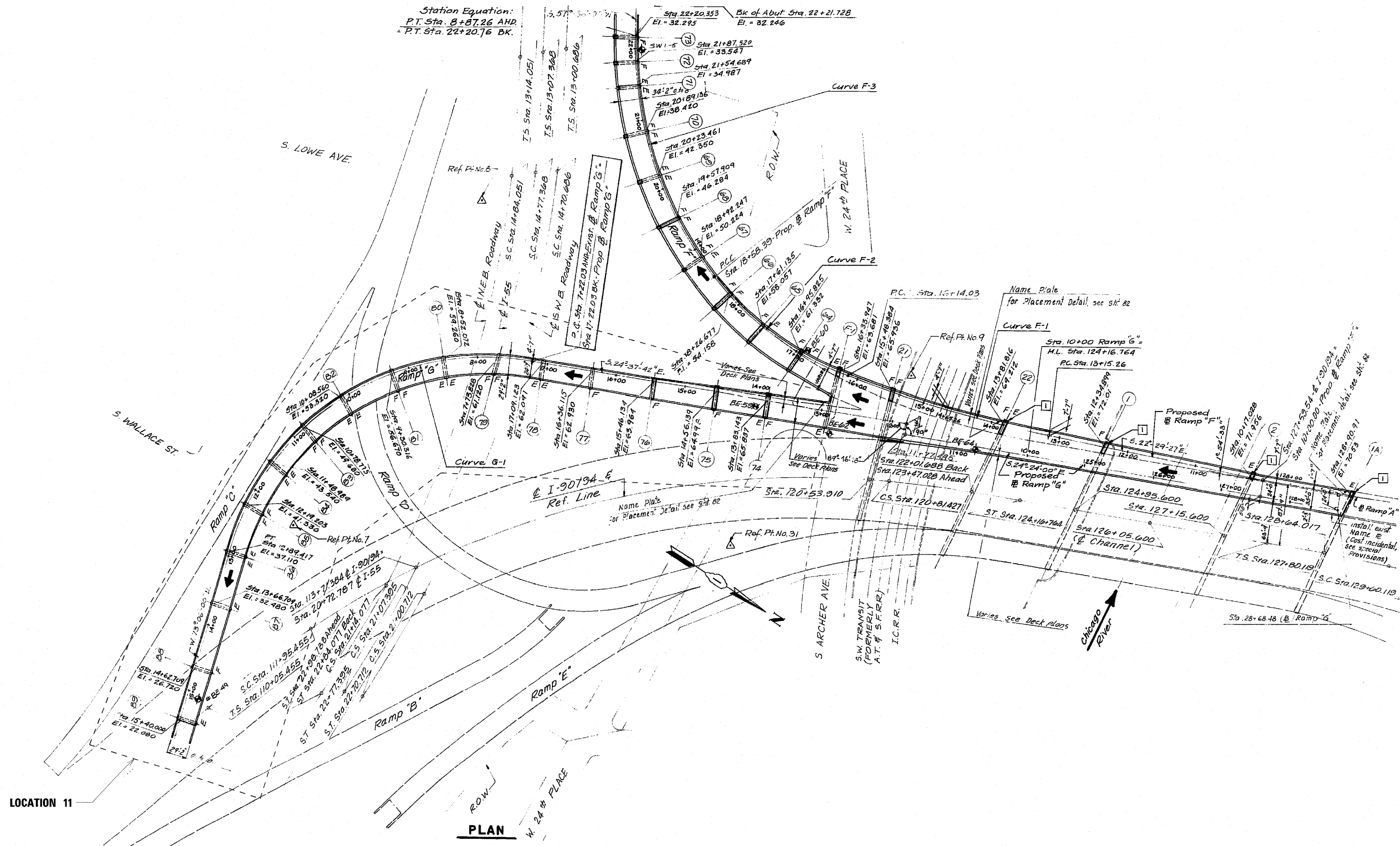
SECTION d-d

(1 1/2\"/>

FIXED BEARING SCHEDULE						
MARK	DIMENSIONS					REMARKS
	A	B	C	D	E	
F	4"	2'-3"	11 1/2"	1'-3"	5 1/2"	Typical for 16" Flange

FIXED BEARING DETAILS

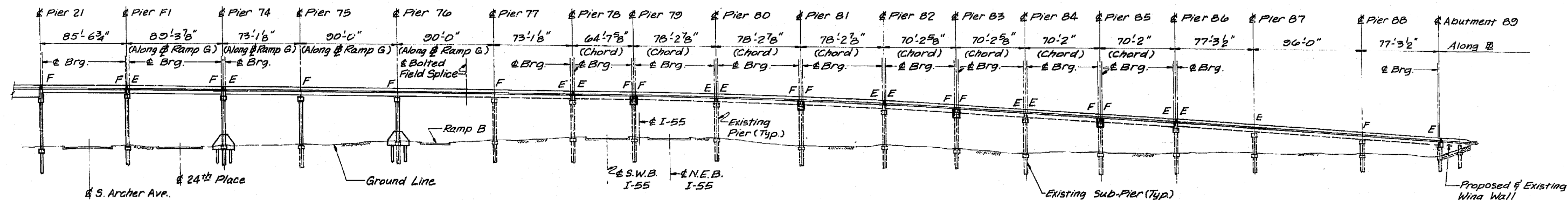
Station Equation:
 P.T. Sta. 8+87.26 AHD
 - P.T. Sta. 22+20.76 BK.



LOCATION 11

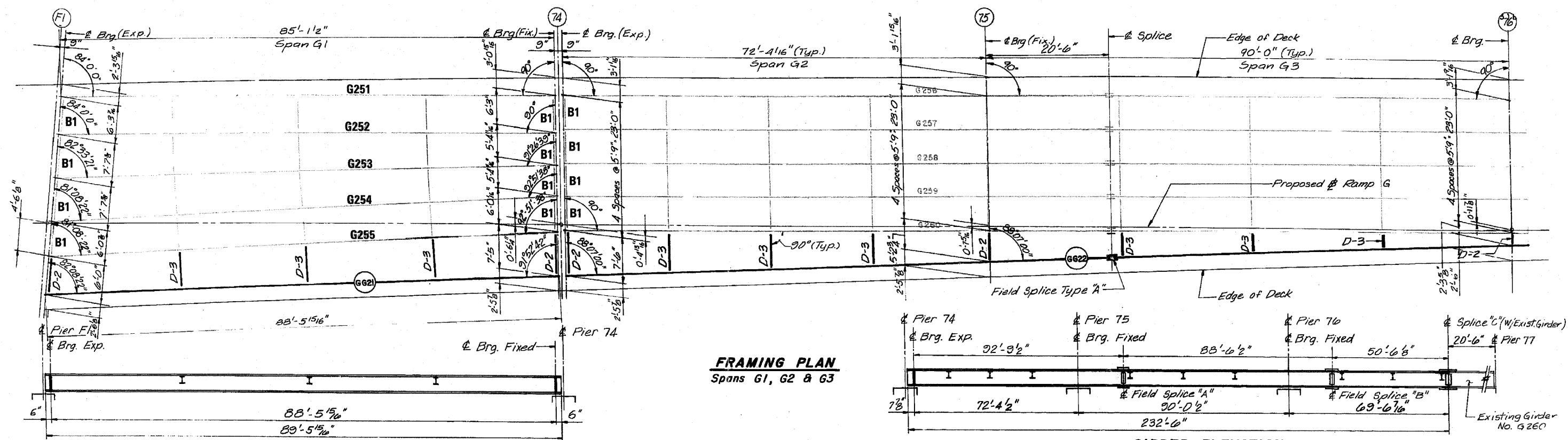
PLAN

FILE NO.	USER NAME = rga11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN - LOCATION 11		F.A.I. RTE. = 94	SECTION = 2010-127-BP	COUNTY = COOK	TOTAL SHEETS = 160	SHEET NO. = 148	
	PLOT SCALE = 1:2000' / 1"	CHECKED - JMH	REVISED -		SCALE: NTS	SHEET NO. 1 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60N01				
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -					ILLINOIS FED. AID PROJECT				



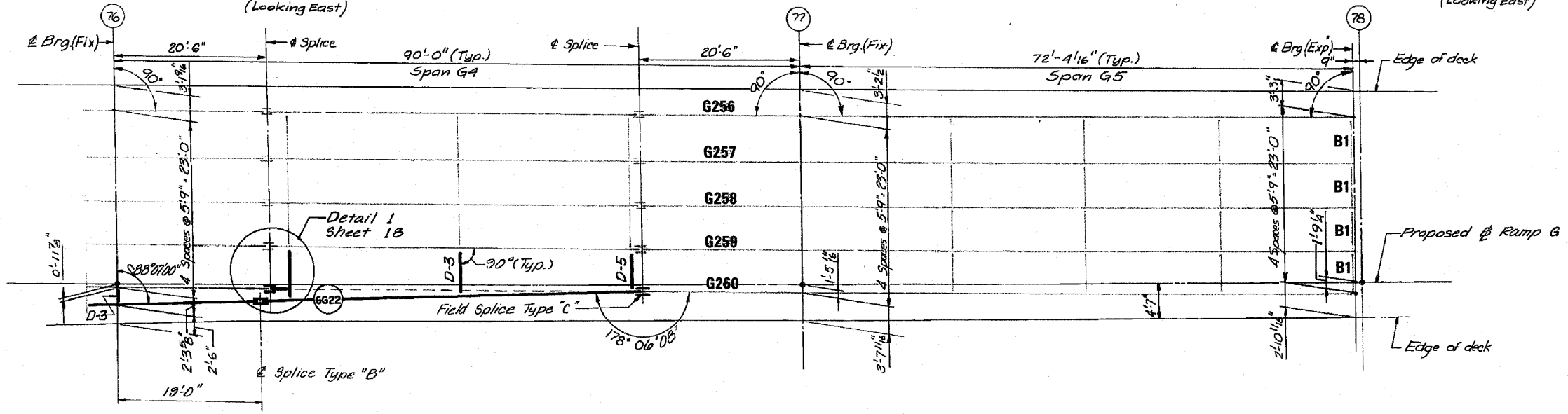
ELEVATION - RAMP G

FILE#	FILE NAME -	USER NAME - rgs11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL ELEVATION - LOCATION 11 STRUCTURE NO. 016-1050			F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 149
	PLOT SCALE = 1:8000 1/8" IN.	DRAWN - AMR	CHECKED - JMH	REVISED -		SCALE: NTS	SHEET NO. 2 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60N01				
	PLOT DATE = 3/28/2011	DATE - MARCH, 2011	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



GIRDER ELEVATION
Girder G621
(Looking East)

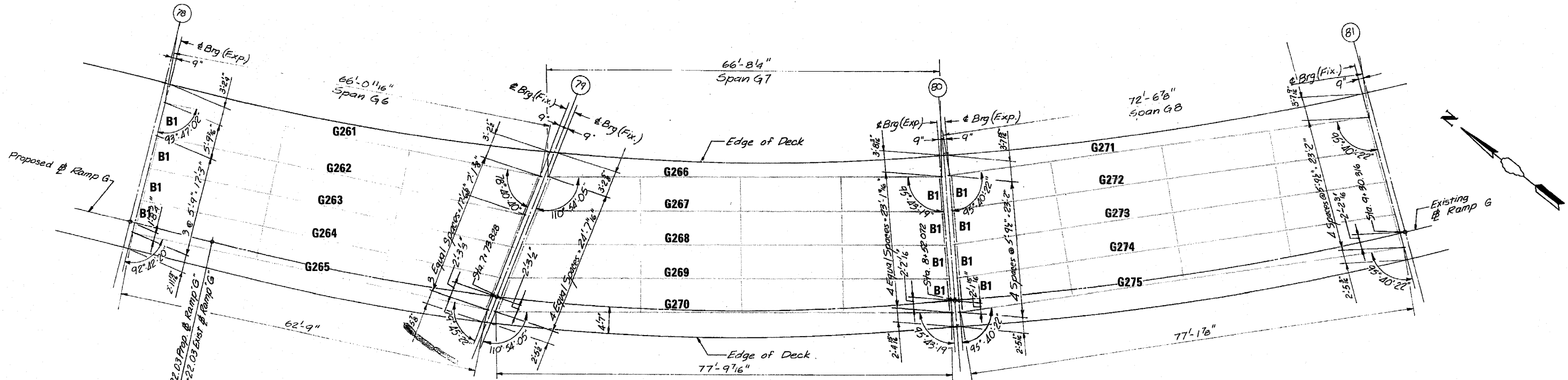
GIRDER ELEVATION
Girder G622
(Looking East)



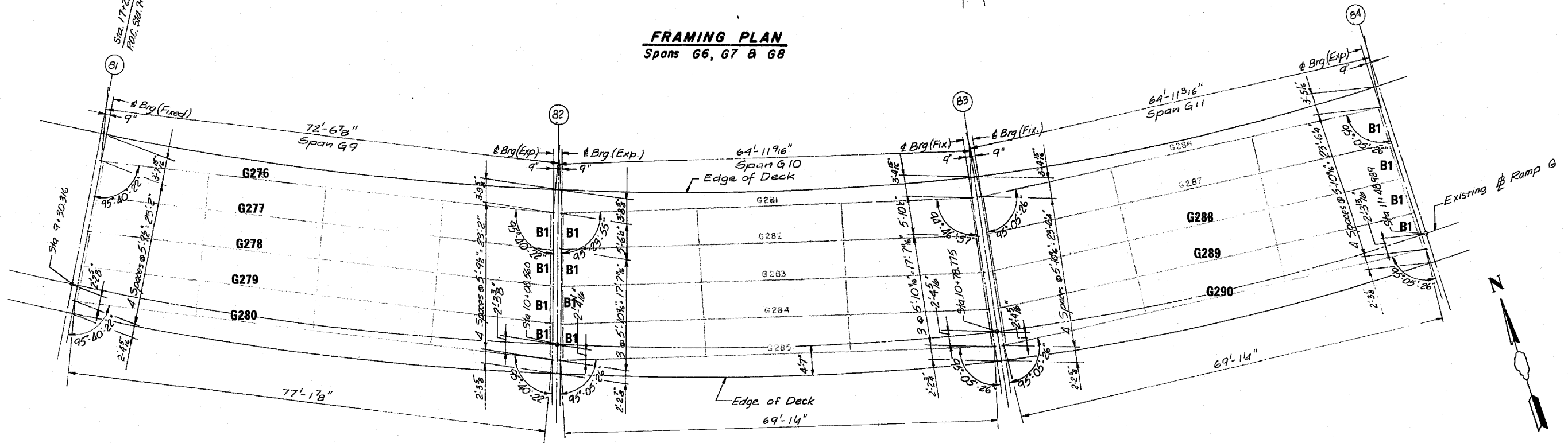
FRAMING PLAN
Spans G4 & G5



FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS G1 TO G5 - LOCATION 11		F.A.I. RTE. = 94	SECTION = 2010-127-BP	COUNTY = COOK	TOTAL SHEETS = 160	SHEET NO. = 150
	PLOT SCALE = 1/8\"/>										

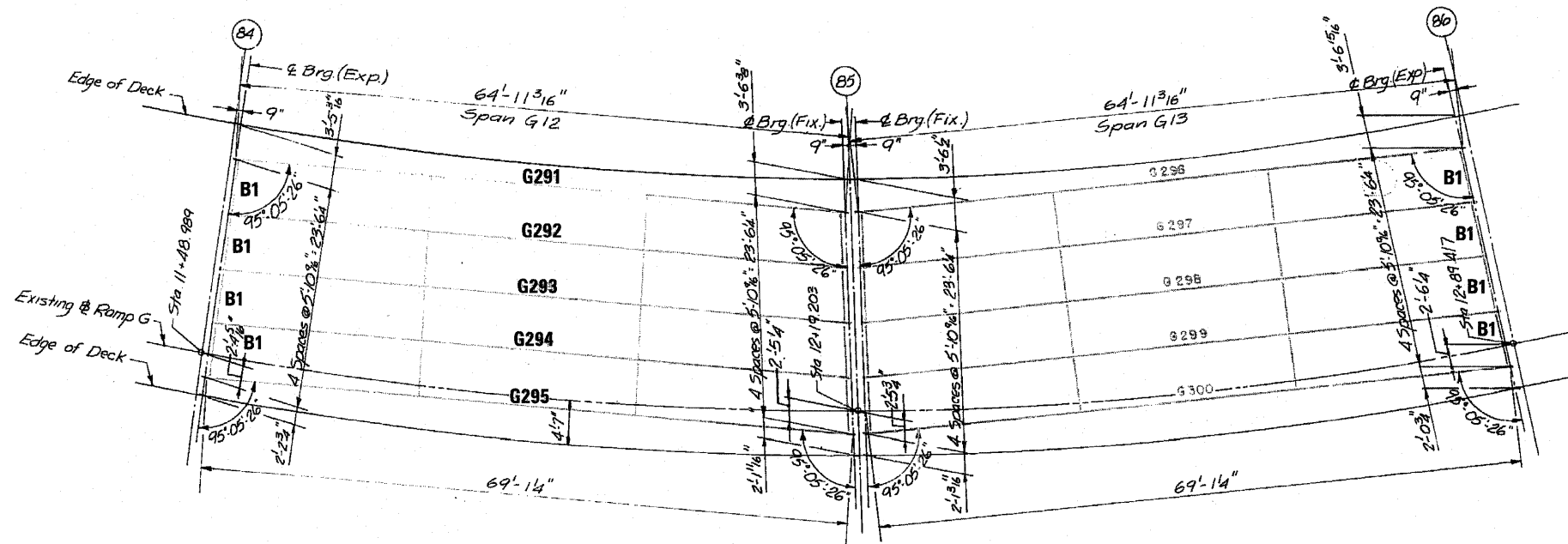


FRAMING PLAN
Spans G6, G7 & G8



FRAMING PLAN
Spans G9, G10 & G11

FILE NAME =	USER NAME = rgal	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN SPANS G6 TO G11 - LOCATION 11 STRUCTURE NO. 016-1050		F.A.I. RTE. 94	SECTION 2010-127-BP	COUNTY COOK	TOTAL SHEETS 160	SHEET NO. 151
	PLOT SCALE = 1:8000 / IN.	DRAWN - AMR	REVISED -		SCALE: NTS	SHEET NO. 4 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 60N01 ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/28/2011	CHECKED - JMH	DATE - MARCH, 2011	REVISED -								

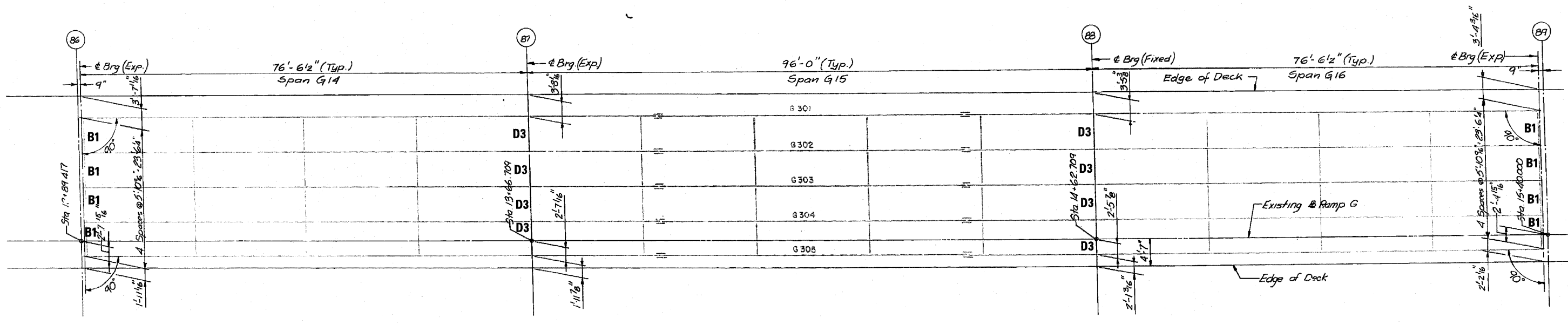


FRAMING PLAN
Spans G12 & G13

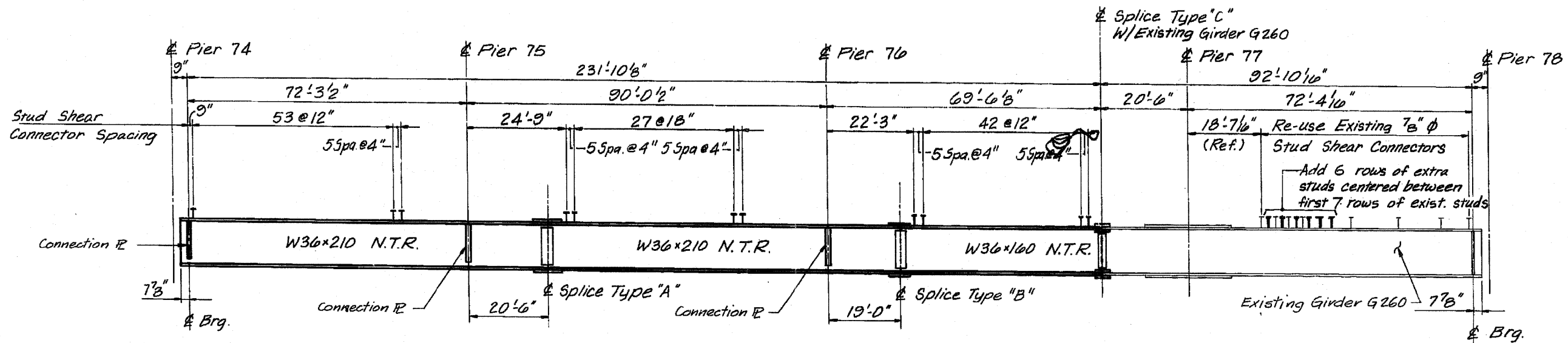
GIRDER SCHEDULE

MARK	SECTION	COVER PLATES	
		SIZE	LENGTH
G251	36WF260	15" x 13 1/2"	60'-0"
G252	36WF260	15" x 13 1/2"	59'-0"
G253	36WF260	15" x 13 1/2"	61'-0"
G254	36WF260	15" x 13 1/2"	62'-0"
G255	36WF280	15" x 13 1/2"	62'-0"
G261	36WF150	11" x 9 1/2"	48'-0"
G262	36WF135	11" x 9 1/2"	48'-6"
G263, G264	36WF135	11" x 9 1/2"	47'-0"
G265	36WF150	11" x 9 1/2"	46'-0"
G266	36WF160	11" x 9 1/2"	47'-0"
G267	36WF150	11" x 9 1/2"	50'-0"
G268	36WF170	11" x 9 1/2"	51'-0"
G269	36WF182	11" x 9 1/2"	52'-0"
G270	36WF230	15" x 13 1/2"	57'-0"
G271, G276	36WF182	11" x 9 1/2"	51'-0"
G272, G273, G277, G278	36WF182	11" x 9 1/2"	52'-0"
G274, G279	36WF182	11" x 9 1/2"	53'-0"
G275, G280	36WF230	15" x 13 1/2"	56'-0"
G281	36WF150	11" x 9 1/2"	45'-6"
G282	36WF135	11" x 9 1/2"	48'-0"
G283, G284	36WF135	11" x 9 1/2"	52'-0"
G285	36WF182	11" x 9 1/2"	50'-0"
G286, G291, G296	36WF150	11" x 9 1/2"	46'-0"
G287-288-292-293-297 & 298	36WF135	11" x 9 1/2"	50'-0"
G289, G294, G299	36WF135	11" x 9 1/2"	52'-0"
G290, G295, G300	36WF182	11" x 9 1/2"	49'-0"

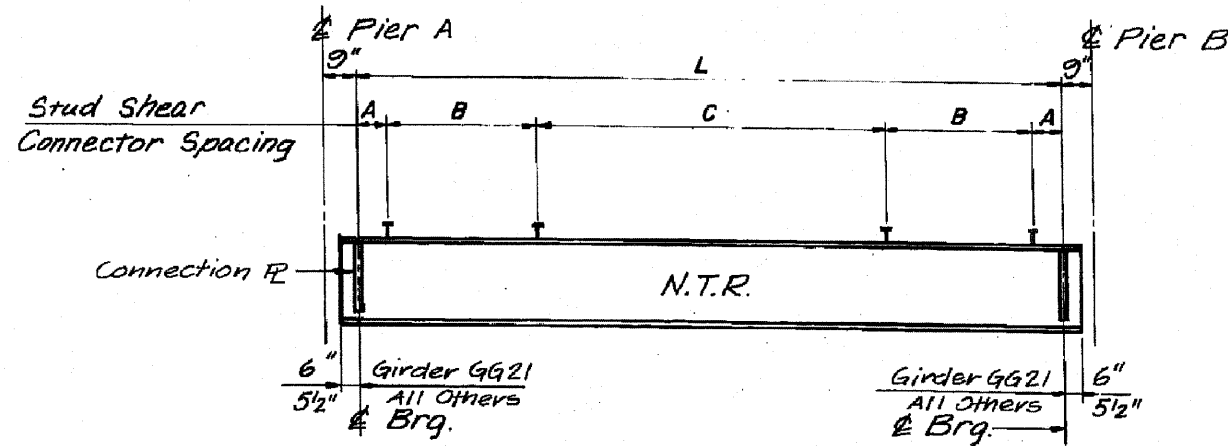
Note: Cover plates on bottom flanges only.



FRAMING PLAN
Spans G14, G15 & G16



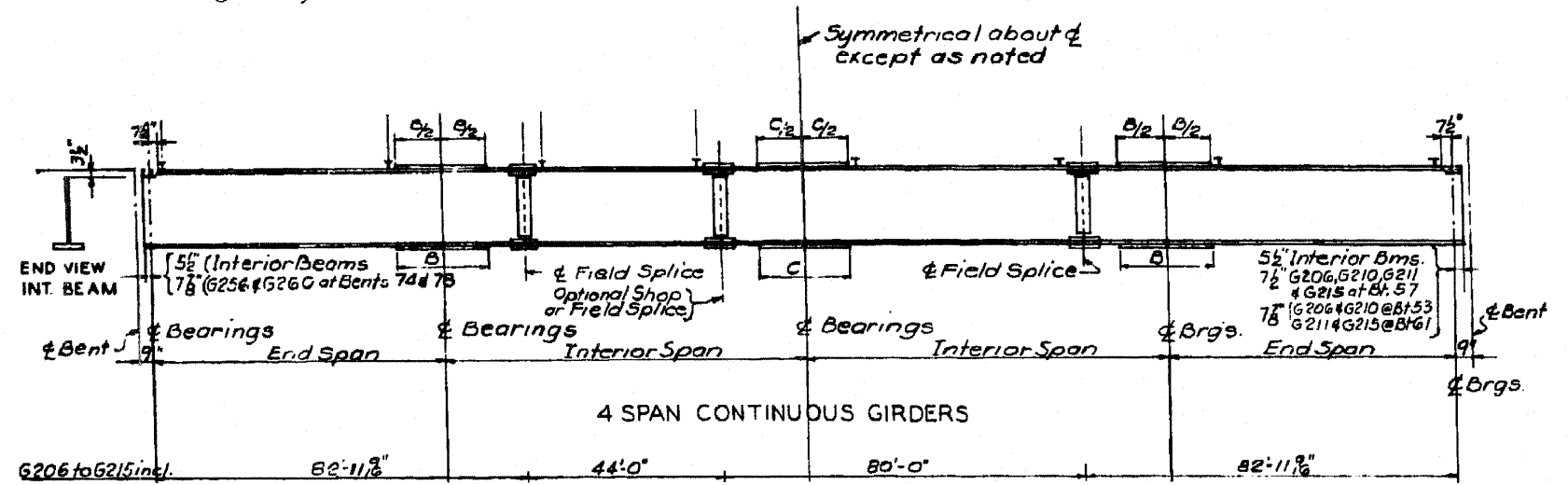
WIDE FLANGE BEAM GG22 ELEVATION - SPANS G2, G3 & G4
(Looking East)



WIDE FLANGE BEAM ELEVATION
GIRDER GG21

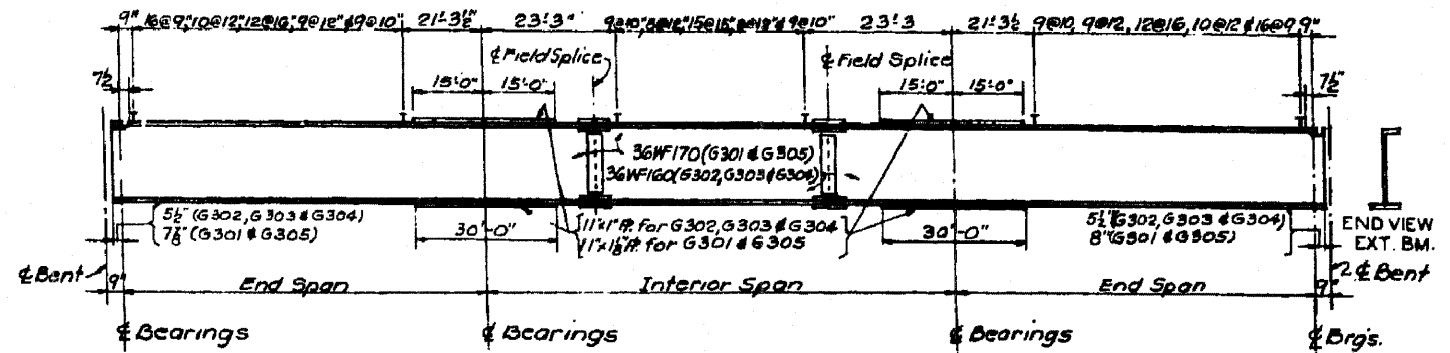
WIDE FLANGE BEAM GG21

SPAN	BEAM	BEAM SIZE	L TO BRG.
G1	GG21	W36x300	88'-5 15/16"

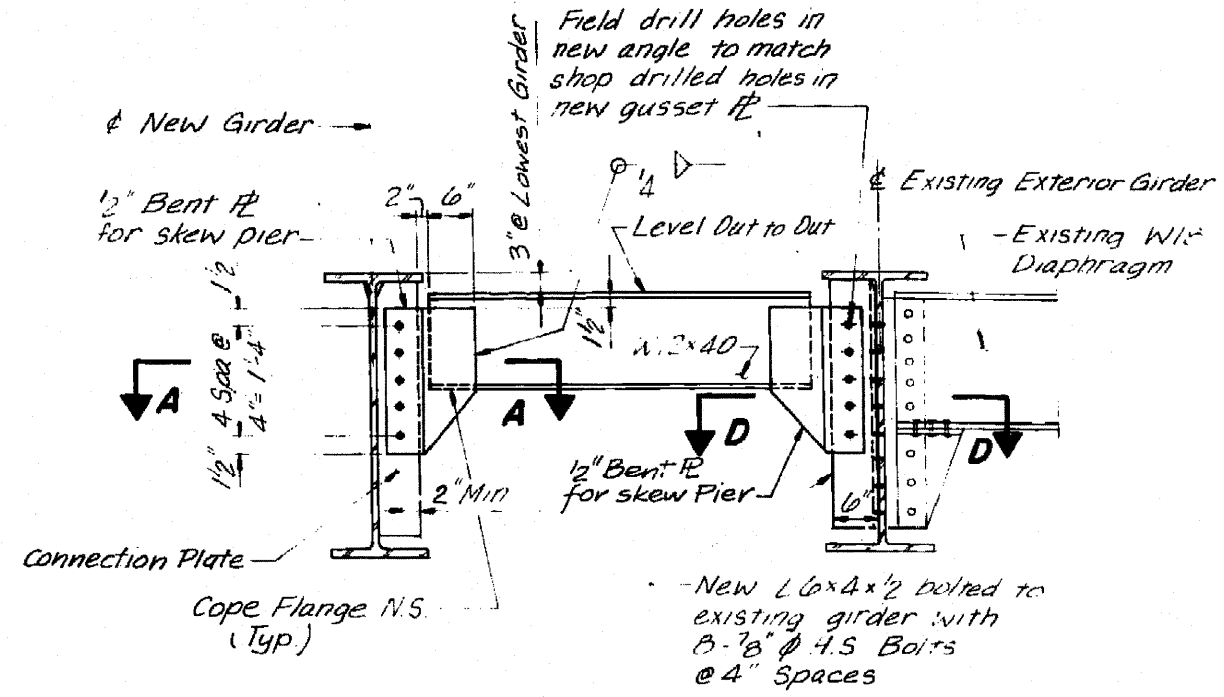


SCHEDULE OF 4 SPAN CONTINUOUS GIRDERS - WF BEAMS

GIRDER NUMBER	BEAM SIZE	COVER PLATE	
		B	C
G256 and G260	36WF160	11 1/2" x 22'-0"	11" x 1" x 24'-0"

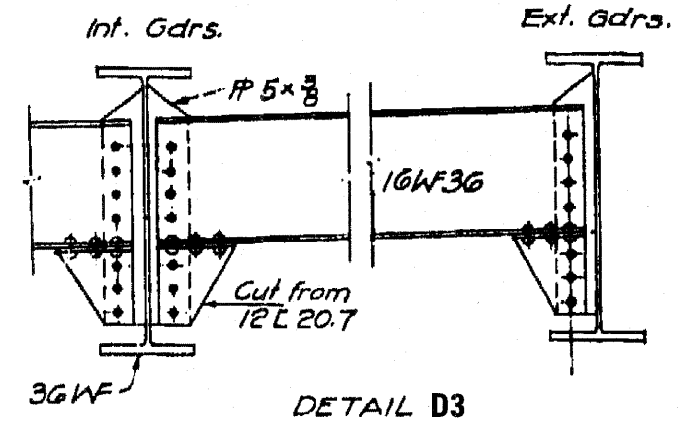


3 SPAN CONTINUOUS GIRDERS

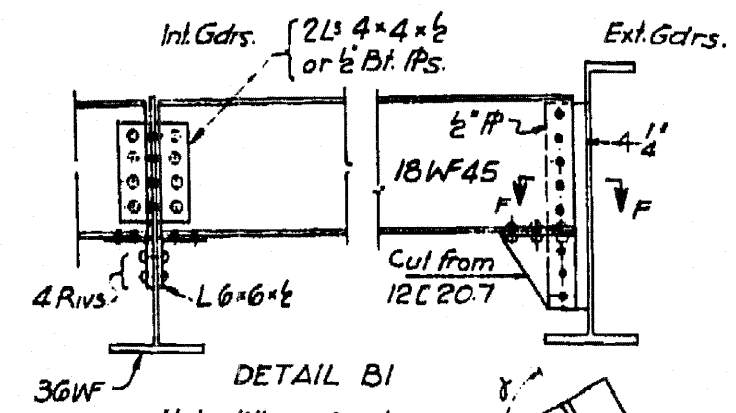


D-2
END DIAPHRAGM

- New L6x4x1/2 bolted to existing girder with 8-7/8" ϕ 4.5 Bolts @ 4" Spaces

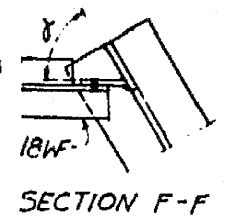


DETAIL D3



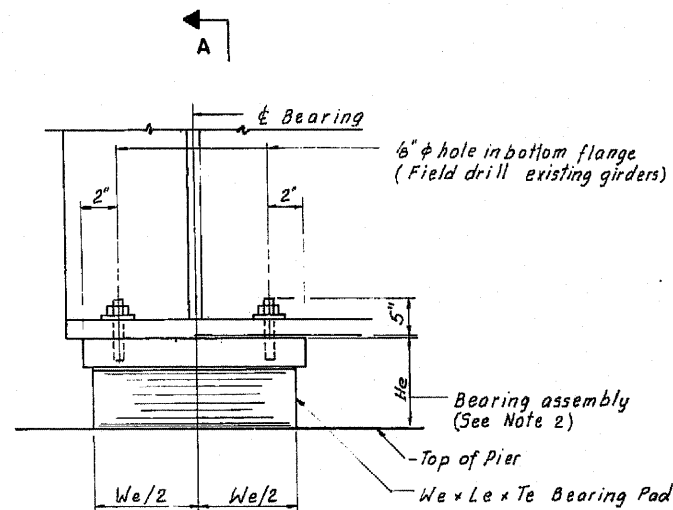
DETAIL B1

Note: Where Angle α is less than 60° use exterior connection detail for interior Girders

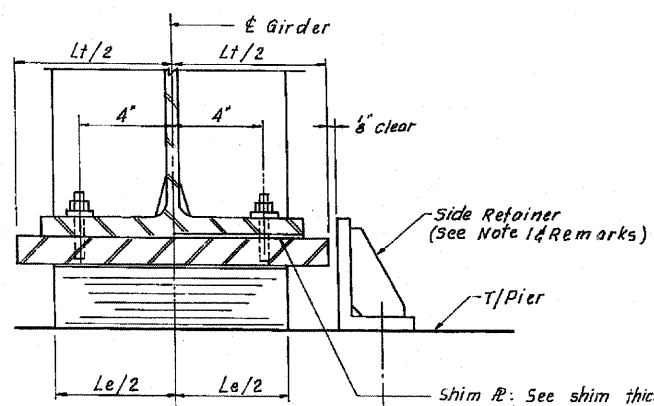


SECTION F-F

FILE NAME =	USER NAME = rga11	DESIGNED - AMR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIAPHRAGM DETAILS - LOCATION 11 STRUCTURE NO. 016-1050		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1/8" = 1' IN.	DRAWN - AMR	REVISED -		94	2010-127-BP	COOK	160	154		
PLOT DATE = 3/29/2011	DATE - MARCH, 2011	CHECKED - JMH	REVISED -	SCALE: NTS	SHEET NO. 7 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 60N01 ILLINOIS FED. AID PROJECT			

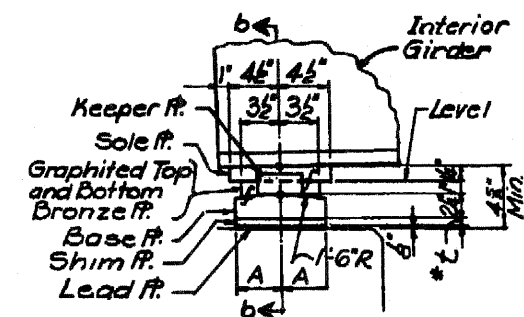


TYPICAL ELEVATION

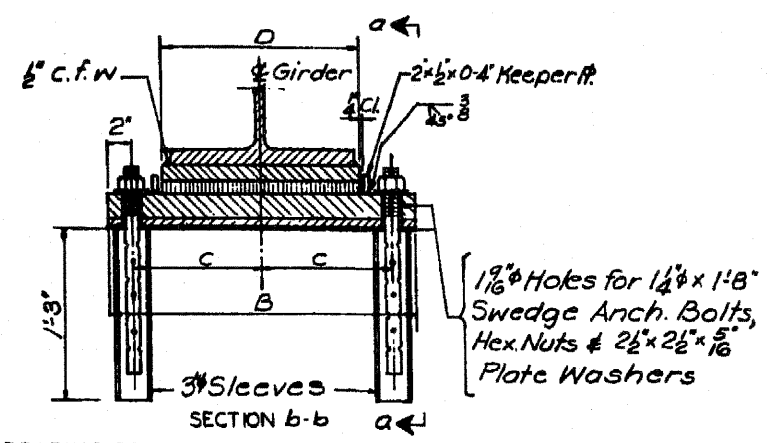


SECTION A-A

Shim R: See shim thickness schedule (Typical for Bearings, without Bolsters)
 & New 1" Anchor Bolt with 2 1/2" x 2 1/2" x 3/16" R washer under nut (Typical for Bearing located on top of Pier at exterior girders)
 & Existing 1 1/2" Anchor Bolt to be reused at Inside Face of Girders in Table A only. Supply new 2 1/4" x 2 1/4" x 5/16" R Washer and new Hex Nut for 1 1/2" Anchor Bolt at this location only



SECTION a-a



EXPANSION BEARING DETAILS
Scale 1/2"=1'-0"

MARK	DIMENSIONS				REMARKS
	A	B	C	D	
E1	4"	2'-3"	11 1/2"	1'-5 1/2"	Typical for 16" Flange
E2	4"	1'-10 1/8"	9 1/2"	1'-1"	Typical for 12" Flange
87	6"	1'-10 1/8"	9 1/2"	1'-1"	

Note: Use typical bearings mark E1 and E2 unless otherwise noted.

TYPE I ELASTOMERIC EXPANSION BEARING

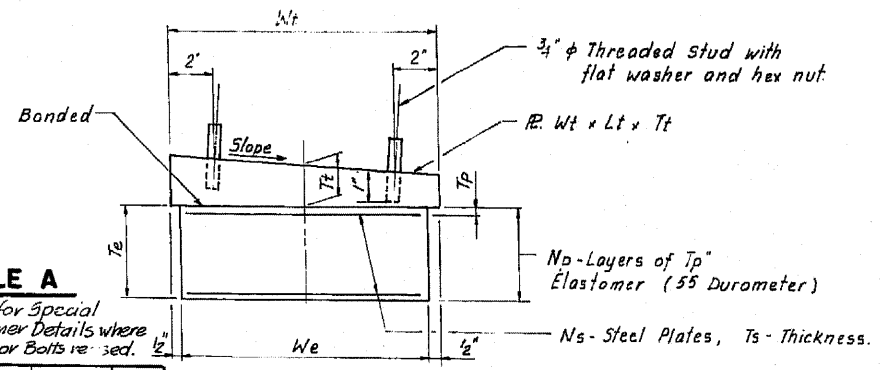
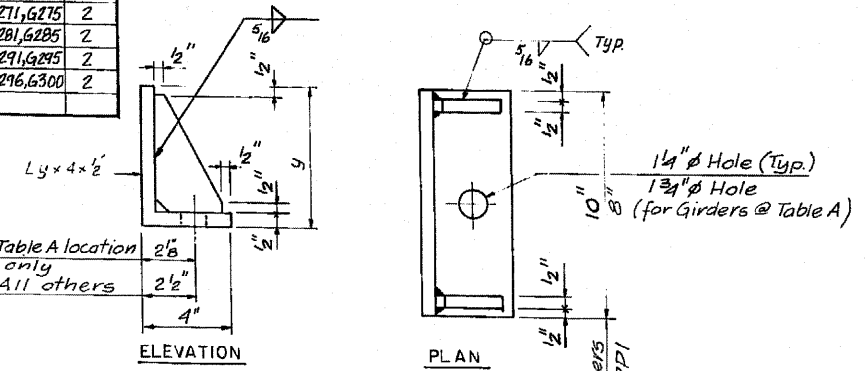


TABLE A

Location for Special Side Retainer Details where Exist. Anchor Bolts re-used.

STRUC. NO.	PIER NO.	GIRDER NO.	NO. REQ'D
016-1050	78(S)	G261, G265	2
	80(S)	G271, G275	2
	82(S)	G281, G285	2
	84(S)	G291, G295	2
	86(S)	G296, G300	2

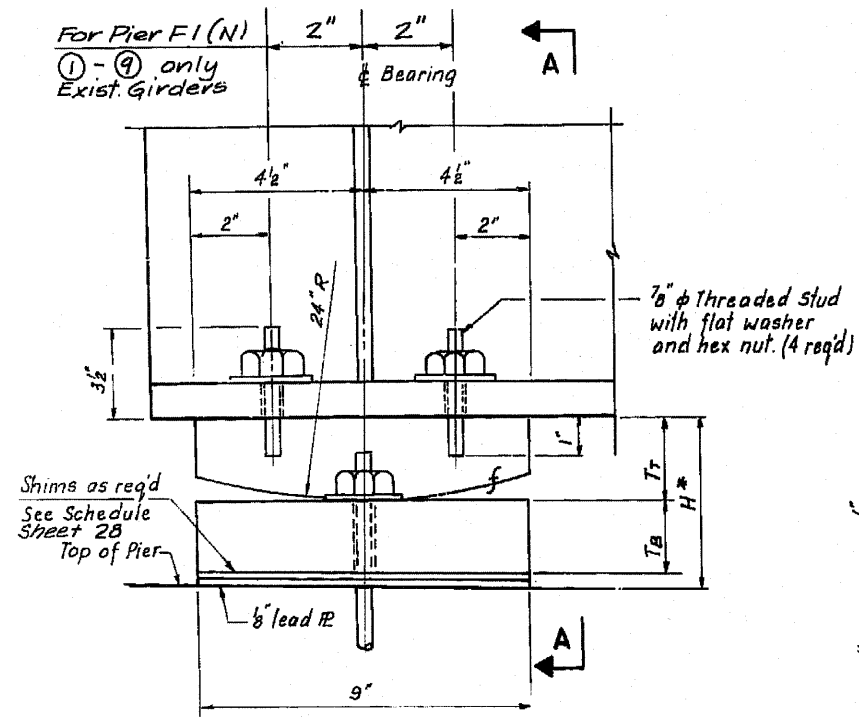
BEARING ASSEMBLY



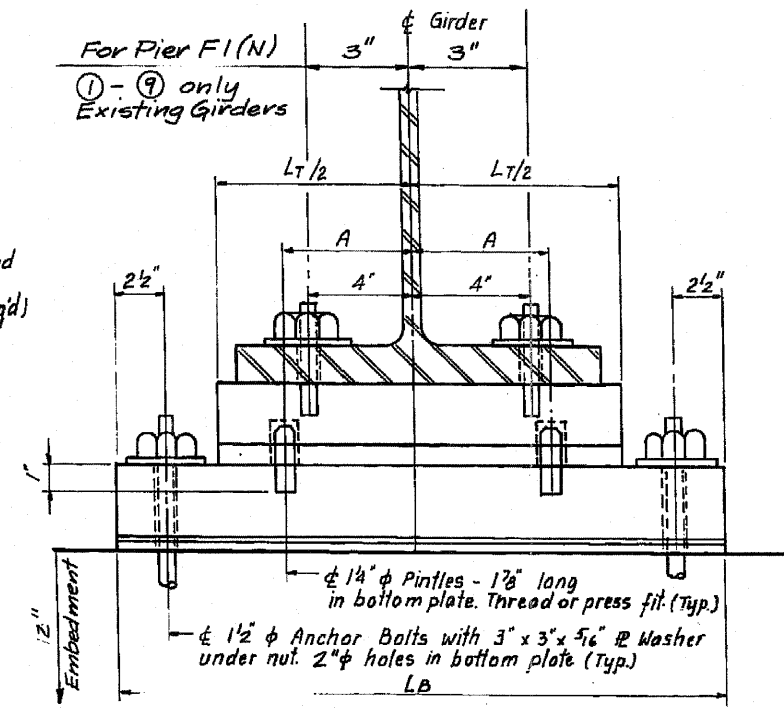
SIDE RETAINER DETAILS

TYPE I ELASTOMERIC EXPANSION BEARING SCHEDULE

STRUCTURE	PIER LOCATION	GIRDER NO.	We	Le	SERIES	TOP PLATE				y	He	NO. REQ'D
						Tt	Wt	Lt	SLOPE %			
016-1050	F1(S)	G221	10	14	a	2 3/8	11	16 3/8	1.25	6	4 13/16	1
	79(S)	G222	9	12	a	2 3/8	10	14	1.21	6	4 3/8	1
	78(S)	G261	9	12	a				2.65	6		1
	78(S)	G262	9	12	a				2.26	6		1
	78(S)	G263	9	12	a				2.04	6		1
	78(S)	G264	9	12	a				1.79	6		1
	78(S)	G265	9	12	a	2 3/8	10	14	1.43	6	4 5/8	1
	80(S)	G271-G274	9	12	a	2 3/8	10	14	3.48	6	4 5/8	4
	80(S)	G275	9	12	a	2 3/8	10	16 1/2	3.48	6	4 5/8	1
	82(S)	G281-G285	9	12	a	2 3/8	10	14	5.44	6	4 3/8	5
84(S)	G291-G295	9	12	a	2 3/8	10	14	6.32	6	4 5/8	5	
86(N)	G296-G300	9	12	a	2 3/8	10	14	6.06	6	4 5/8	5	



ELEVATION



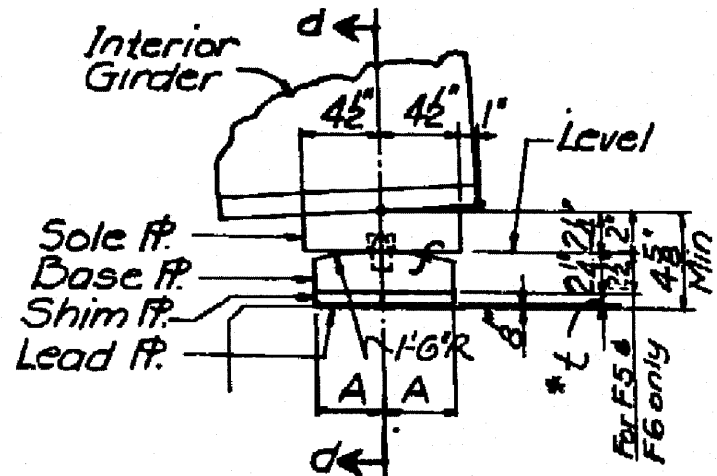
SECTION A-A

FIXED BEARING SCHEDULE - TYPE F1

STRUCTURE NO.	PIER LOCATION	GIRDER NO.	BRG TYPE	NO. REQ'D	T _T "	L _T "	T _B "	L _B "	A"	H"
016-1050	74(N)	GG 21	F1	1	2 1/2	17	2	27	4 1/2	4 5/8

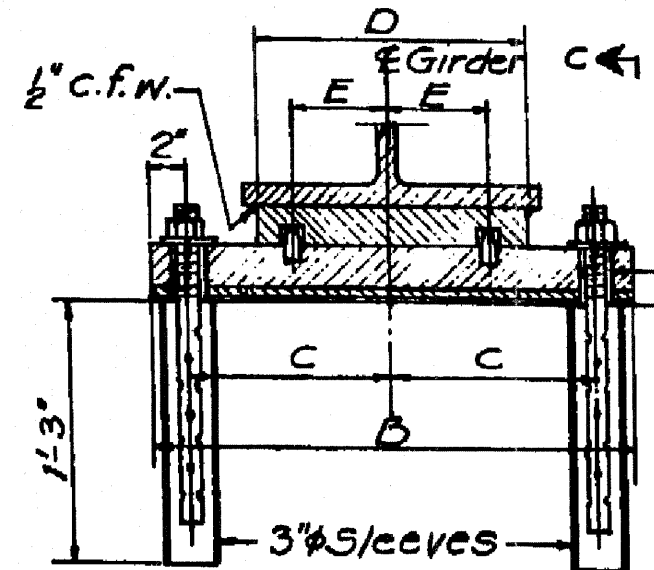
* H - height does not include Shim \overline{P} .

FIXED BEARING - TYPE F1
f = Surface finish shall have ANSI surface roughness value not exceeding 250.



* Shim plate if required for t see schedule
f = Finish

SECTION C-C

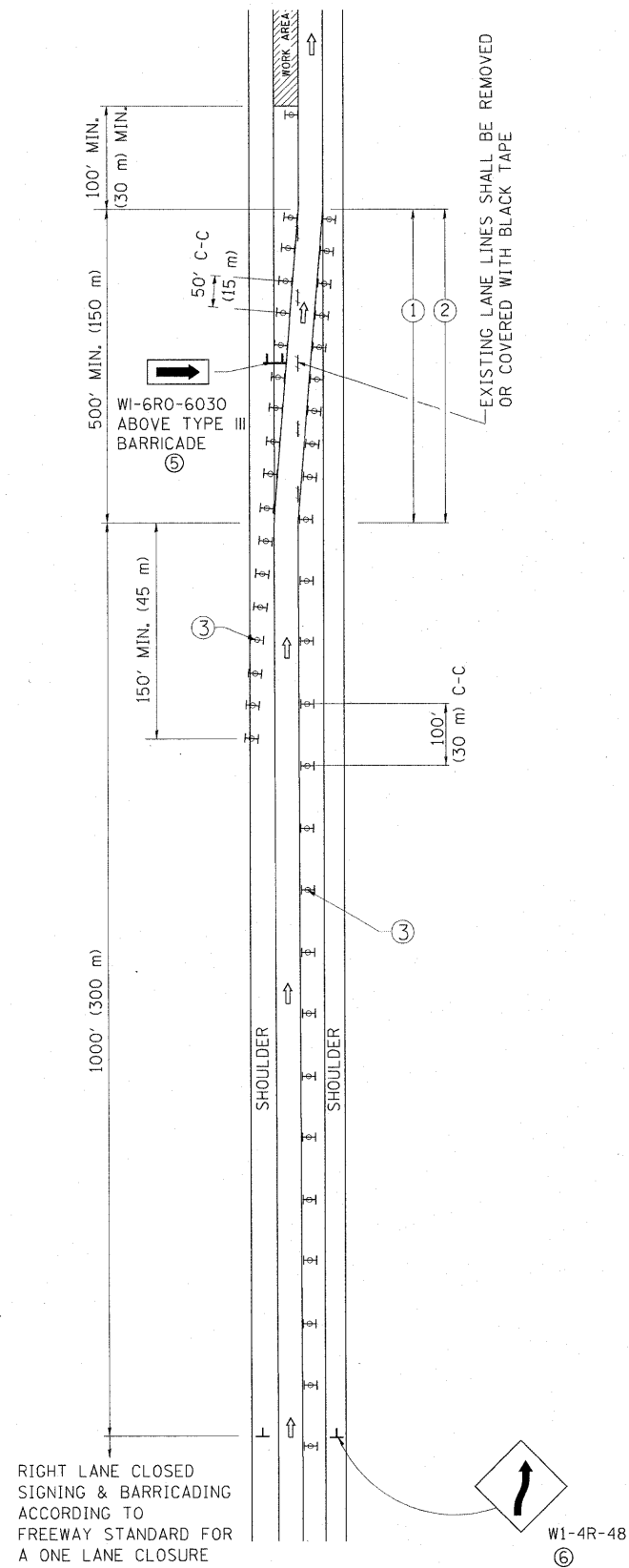


SECTION D-D

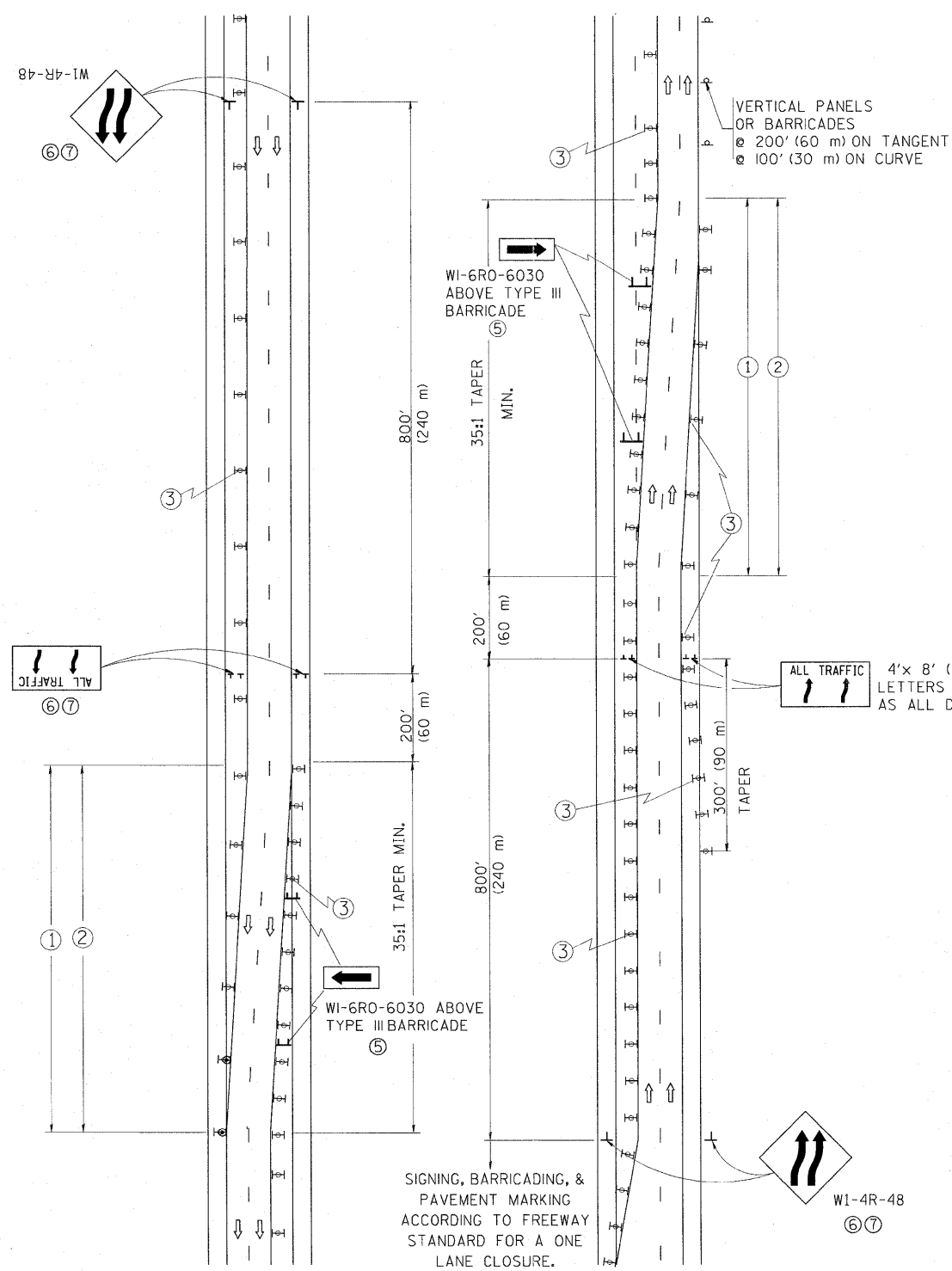
FIXED BEARING SCHEDULE						
MARK	DIMENSIONS					REMARKS
	A	B	C	D	E	
F	4"	2'-3"	1 1/2"	1'-3"	5 1/2"	Typical for 16" flange

FIXED BEARING DETAILS

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

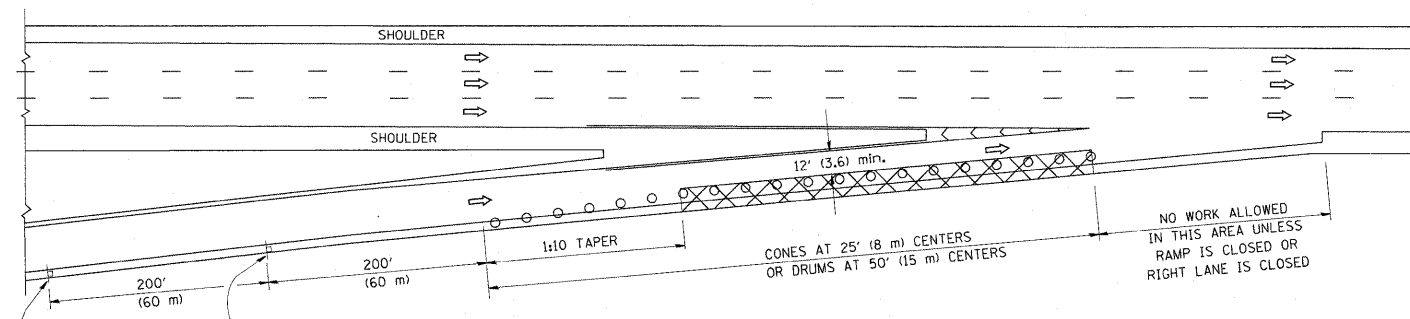
- ↑ DIRECTION OF TRAFFIC
 - ▨ WORK AREA
 - ┆ SIGN ON PORTABLE OR PERMANENT SUPPORT
 - ⊞ TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

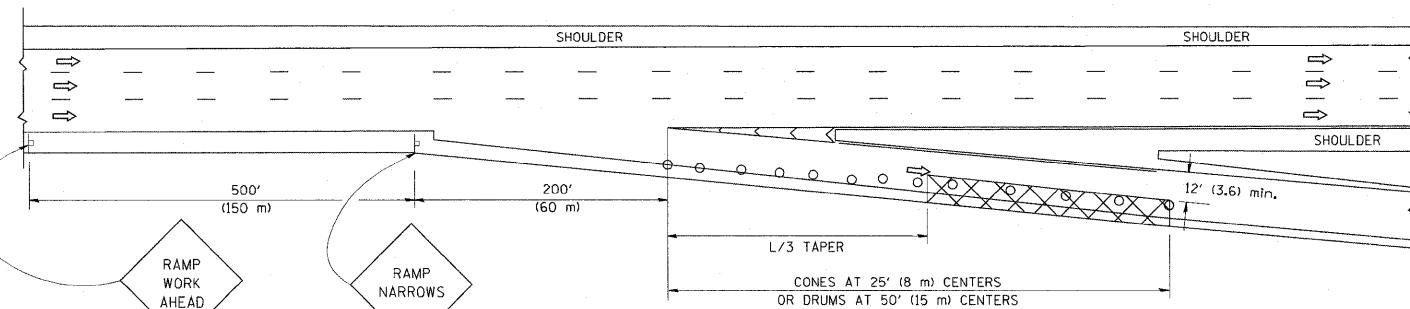
FILE NAME = W:\dststd\22x34\to89.dgn	USER NAME = lnyss	DESIGNED - DWS	REVISED - JAF 01-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - JAF 02-06		94	2010-127-BP	COOK	160	157			
		CHECKED -	REVISED - SPB 01-07		TC-09			CONTRACT NO. 60N01				
		DATE - 02-87	REVISED - SPB 12-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

PARTIAL RAMP CLOSURE DETAILS

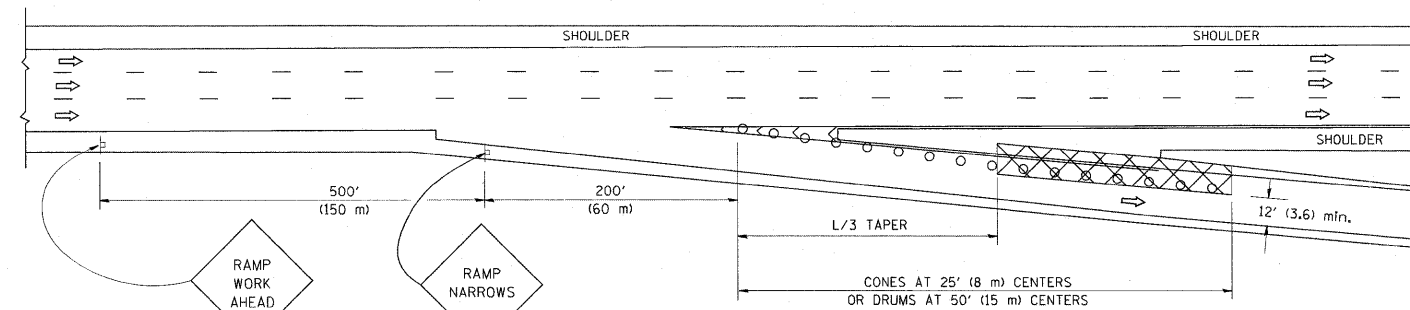
SHOULDER CLOSURE DETAILS



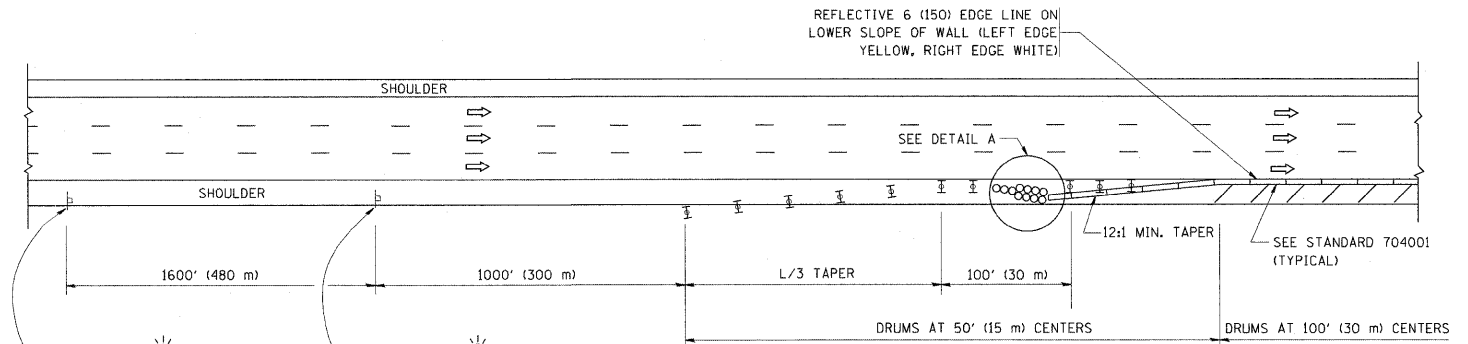
TYPICAL ENTRANCE RAMP



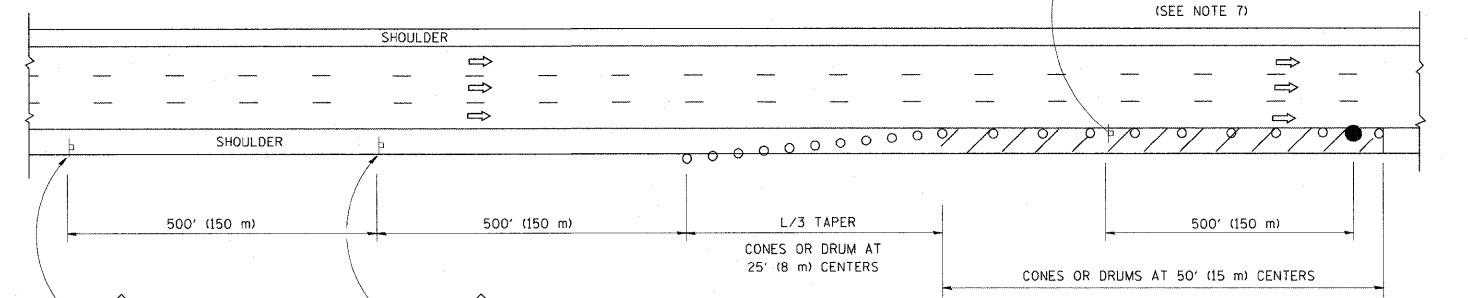
TYPICAL EXIT RAMP



TYPICAL EXIT RAMP



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

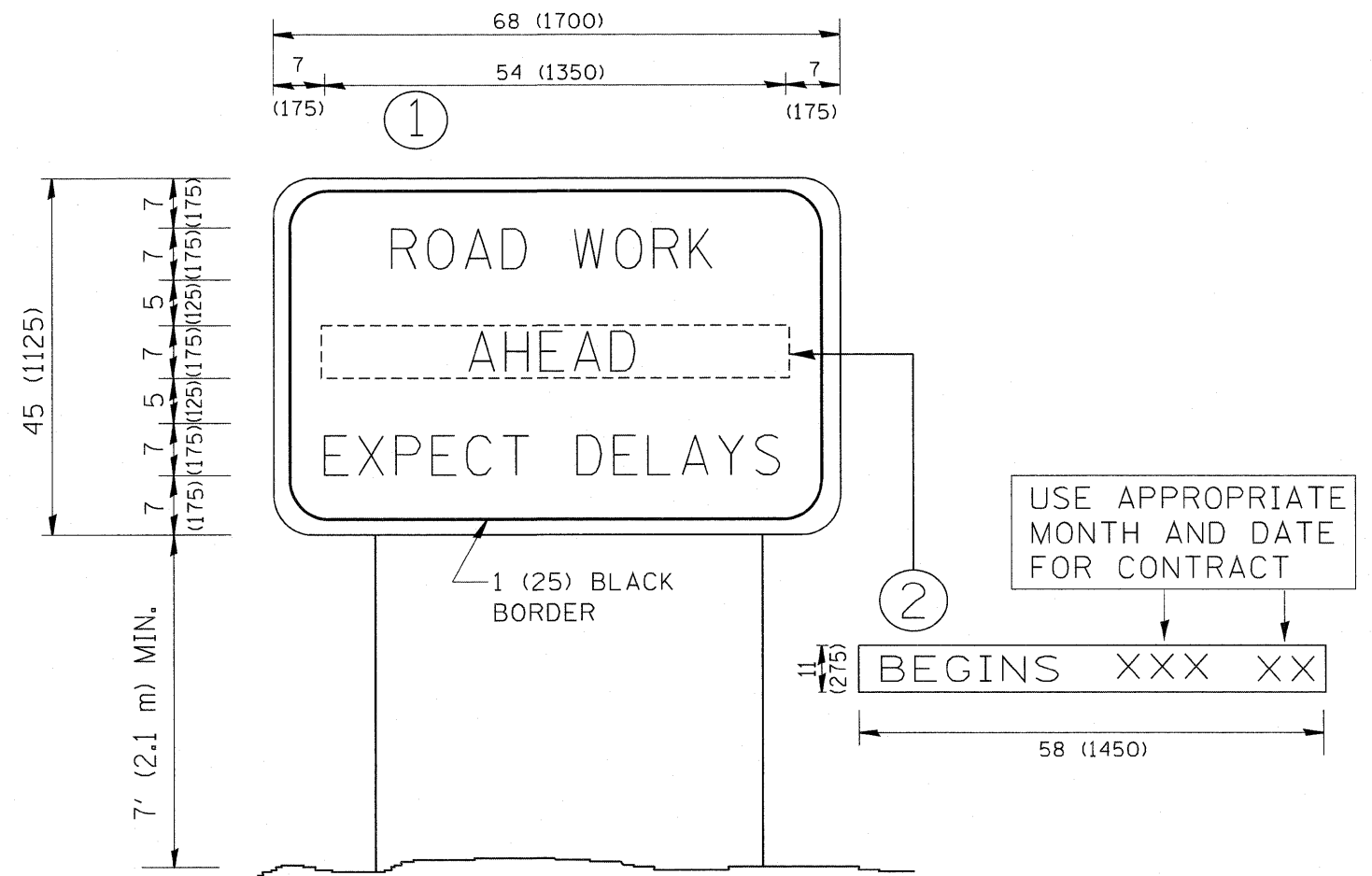
1. THE "L" DISTANCE EQUALS:
 SPEED LIMIT FORMULAS
 45 mph (80 km/h) METRIC ENGLISH
 OR GREATER: L=0.65(W)(S) L=(W)(S)
 W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dist\td\22x34\17.dgn	USER NAME = legso	DESIGNED -	REVISED - 04-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	94	2010-127-BP	COOK	160	158
		CHECKED -	REVISED - S.P.B. 01-07						TC-17		CONTRACT NO. 60N01		
		DATE - 11-96	REVISED - S.P.B. 12-09						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



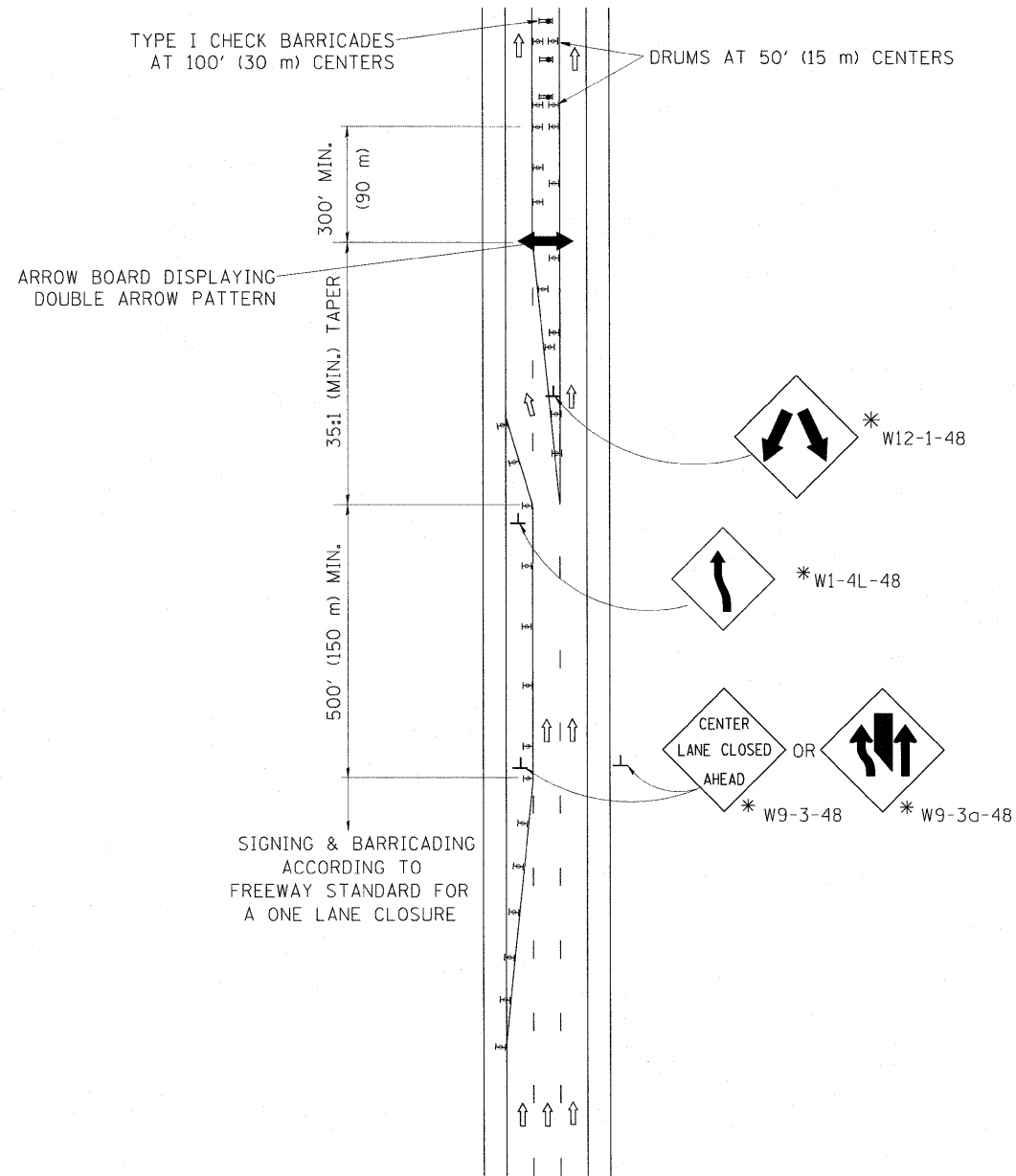
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

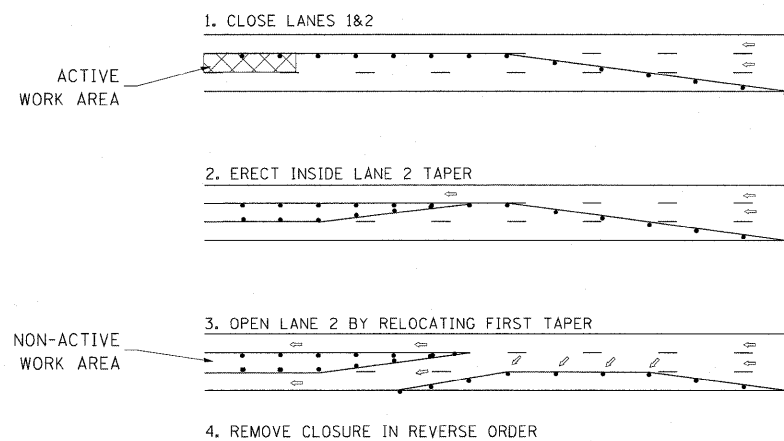
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		94	2010-127-BP	COOK	160	159			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		DATE -	REVISED - C. JUCIUS 01-31-07		TC-22		CONTRACT NO. 60N01					

CENTER LANE CLOSURE



INSTALLATION SEQUENCE

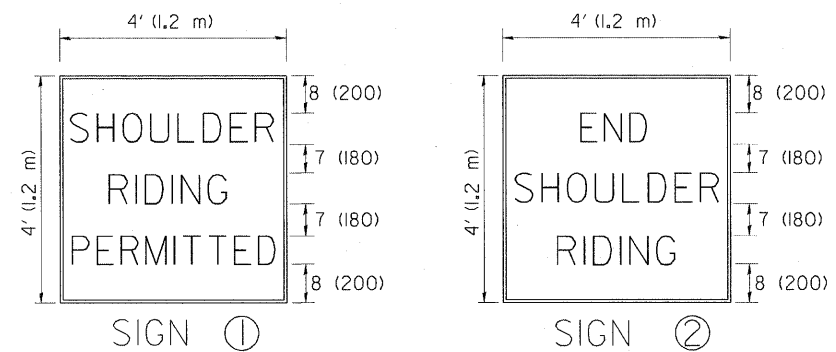
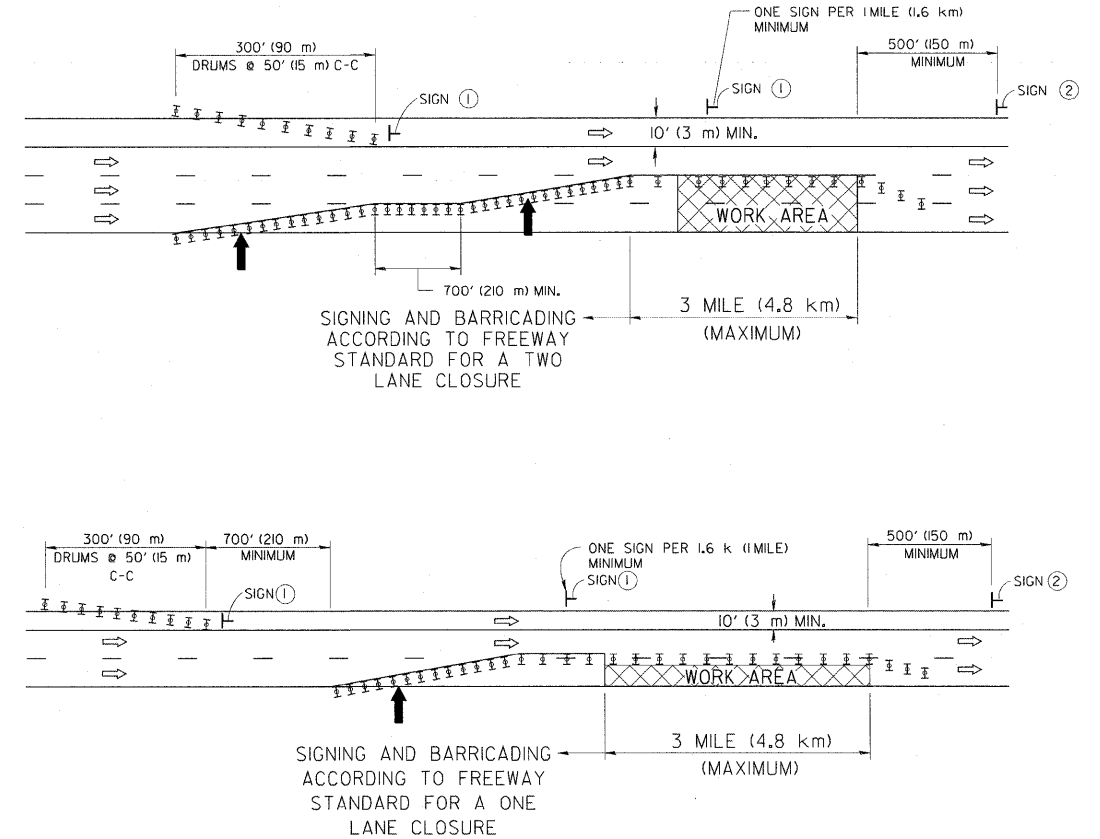


NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1(25) BORDER

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME = W:\dist\d22x34\c25.dgn	USER NAME = lsgoo	DESIGNED -	REVISED - J.A.F. 04-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - S.P.B. 01-07		94	2010-127-BP	COOK	160	160			
		CHECKED -	REVISED - S.P.B. 12-09		TC-25		CONTRACT NO. 60N01					
		DATE -	REVISED -		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							
		PLOT SCALE = 50.000 1/ IN.		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.						