

GENERAL NOTES: UNLESS OTHERWISE SPECIFIED

1. BUILD CAMEL (SUB SEPARATOR) PER DEPT OF NAVY
NAVAL FACILITIES ENGINEERING COMMAND STANDARD
SPECIFICATION C49, ATTACK SUBMARINE CAMEL.

THIS DRAWING HAS BEEN GENERATED AND IS
MAINTAINED BY A CAD SYSTEM. CHANGES
SHALL ONLY BE INCORPORATED AS DIRECTED
BY THE COGNIZANT DESIGN ACTIVITY.

2			ACCESS COVER		43
2			BUOYANCY TANK		42
AR			PLUG, DRAIN PIPE, #1.0	STEEL	41
AR			ANODE, CORROSIVE PREVENTIVE	ZINC	40
352			BOLT, HEX HD, 9/16-12UNC x 2.5	STEEL, ASTM A307, GR A, GALVANIZED	39
352			NUT, HEAVY HEX HD, 9/16-12UNC-2B	STEEL, ASTM A563, GR A, GALVANIZED	38
352			WASHER, LOCK 9/16 ID	STEEL, ASTM F844, GALVANIZED	37
704			WASHER, FLAT 9/16 ID	STEEL, ASTM F844, GALVANIZED	36
48			BOLT, HEX HD, 1/2-13UNC x 2.0	STEEL, ASTM A307, GR A, GALVANIZED	35
48			NUT, HEAVY HEX HD, 1/2-13UNC-2B	STEEL, ASTM A563, GR A, GALVANIZED	34
48			WASHER, LOCK 1/2 ID	STEEL, ASTM F844, GALVANIZED	33
96			WASHER, FLAT 1/2 ID	STEEL, ASTM F844, GALVANIZED	32
168			BOLT, HEX HD, 1-BUNC x 2.5	STEEL, ASTM A307, GR A, GALVANIZED	31
168			NUT, HEAVY HEX HD, 1-BUNC-2B	STEEL, ASTM A563, GR A, GALVANIZED	30
168			WASHER, LOCK 1.0 ID	STEEL, ASTM F844, GALVANIZED	29
336			WASHER, FLAT 1.0 ID	STEEL, ASTM F844, GALVANIZED	28
4		200x3000	ARCH FENDER	TRELEX MORSE	27
12		200x1500	ARCH FENDER	TRELEX MORSE	26
14		200x1000	ARCH FENDER	TRELEX MORSE	25
-1	CAGE	PART OR	DESCRIPTION OR NOMENCLATURE	MATERIAL/SPEC/REF DESG	FIND
QTY REQD	CODE	IDENTIFYING NUMBER			NO.
PARTS LIST CONTD					

4			MID PIER GUARD		24
4			END PIER GUARD ATTACHMENT		23
2			END PIER GUARD		22
40		1.5 UHMWPE	PIER GUARD, 1.48 THK		21
48		1.5 UHMWPE	PIER GUARD, 1.45 THK		20
AR			PLATE, .25 DIAMOND	EXISTING MATL	19
1			DECK FRAME, PLATE, .25 THK	AL 5052-H32	18
AR			TUBE, 8x8x.25 x 110.25 LG	STEEL	17
AR			PLATE, .375 THK	STEEL A36/A36M	16
AR			PLATE, .375 THK	STEEL A36/A36M	15
AR			PLATE, .375 THK	STEEL A36/A36M	14
AR			PLATE, .50 THK	STEEL A36/A36M	13
AR			PLATE, .50 THK	STEEL A36/A36M	12
AR			PLATE, .50 THK	STEEL A36/A36M	11
AR			PLATE, .375 THK	STEEL A36/A36M	10
AR			PLATE, .375 THK	STEEL A36/A36M	9
2			PLATE, .50 THK x #12.375	STEEL A36/A36M	8
AR			ANGLE, 3 x 5 x .50	STEEL A36/A36M	7
AR			PLATE, .50 THK	STEEL A36/A36M	6
18			PLATE, .375 THK x #12.375	STEEL A36/A36M	5
AR			PLATE, .375 THK	STEEL A36/A36M	4
AR			PIPE, 4" SCHD 40	STEEL A53, TYPE E OR S, GRADE B	3
AR			PIPE, 10" SCHD 40	STEEL A53, TYPE E OR S, GRADE B	2
AR			PIPE, 12" SCHD 40	STEEL A53, TYPE E OR S, GRADE B	1
-1	CAGE	PART OR	DESCRIPTION OR NOMENCLATURE	MATERIAL/SPEC/REF DESG	FIND
QTY REQD	CODE	IDENTIFYING NUMBER			NO.
PARTS LIST					

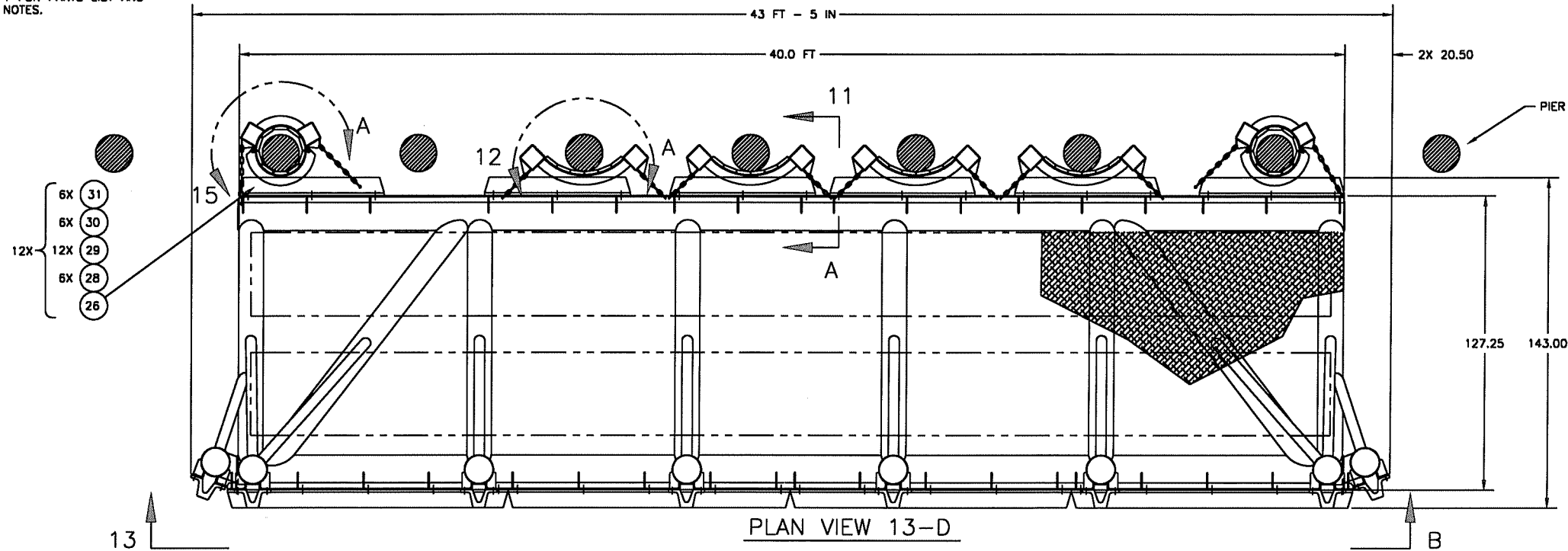
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Other requests shall be referred to Commander,
NCCOSC, RDT&E Division, San Diego CA 92152-5000

0928-7
DOLPHIN
Folder DNR 5

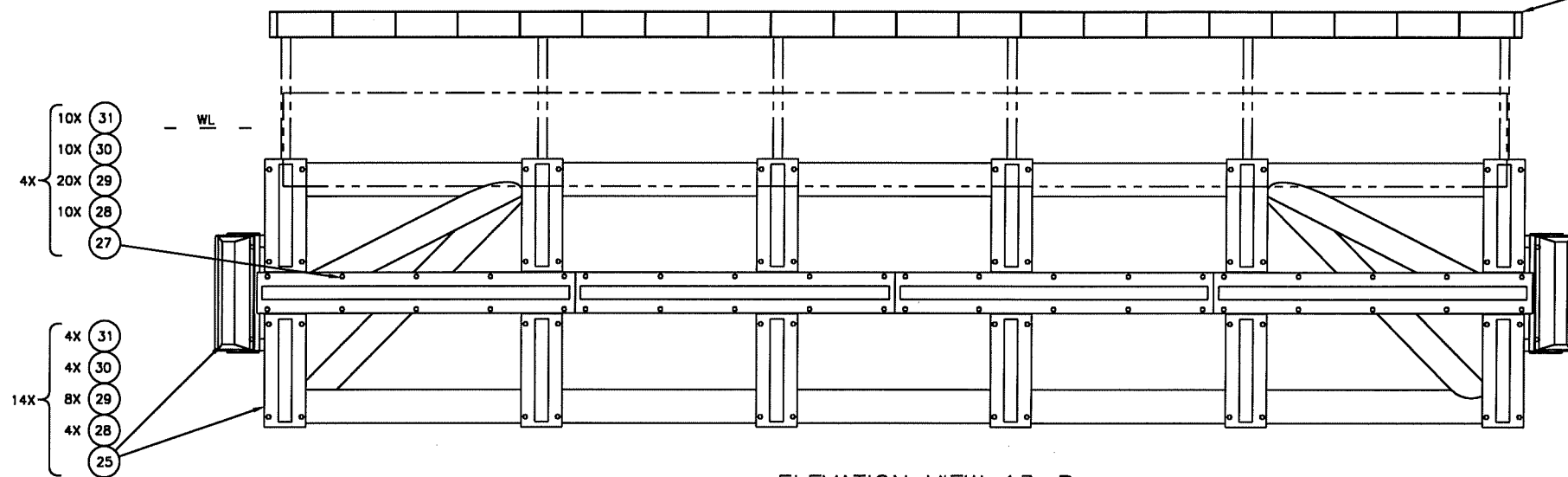
X X REVISION		REVISION	STATUS OF	REVISION	DATE	INTERPRET DRAWING IN ACCORDANCE WITH HIL-STD-100		NAVAL COMMAND, CONTROL AND OCEAN SURVEILLANCE CENTER RESEARCH, DEVELOPMENT, TEST AND EVALUATION DIVISION SAN DIEGO, CA 92152-5000	
2 1 SHEET						DO NOT SCALE THIS DRAWING UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES BREAK ALL EDGES .12 MAX. REMOVE ALL BURRS TOLERANCES ARE: UNDER 6 FT ±1/16" OVER 6 FT ±1/8" ANGLES ±1° FILLETS .25 MAX. SURFACE ROUGHNESS RELEASED DATE		APPROVED CHECKED PREPARED BRAZIS 94/1/25	
USS DOLPHIN		NEXT ASSY		USED ON		PROJECT NUMBER XXXXX COGNIZANT CODE XXX		SIZE F 60755 0114325	
APPLICATION		APPROVED FOR BY DIRECTION		SCALE 1/2"=1'-0"		DRAWING NUMBER 114353-1 94/1/25-15:15		SHEET 1 OF 12	

NOTES:
1. SEE SHT 1 FOR PARTS LIST AND GENERAL NOTES.

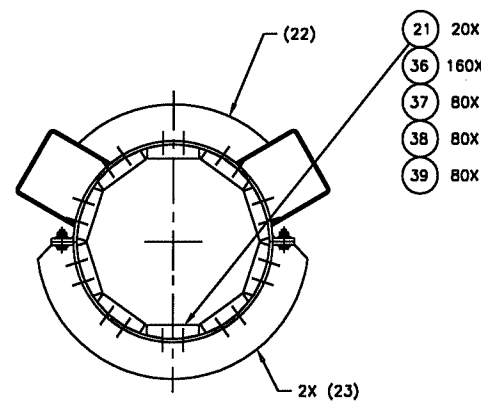
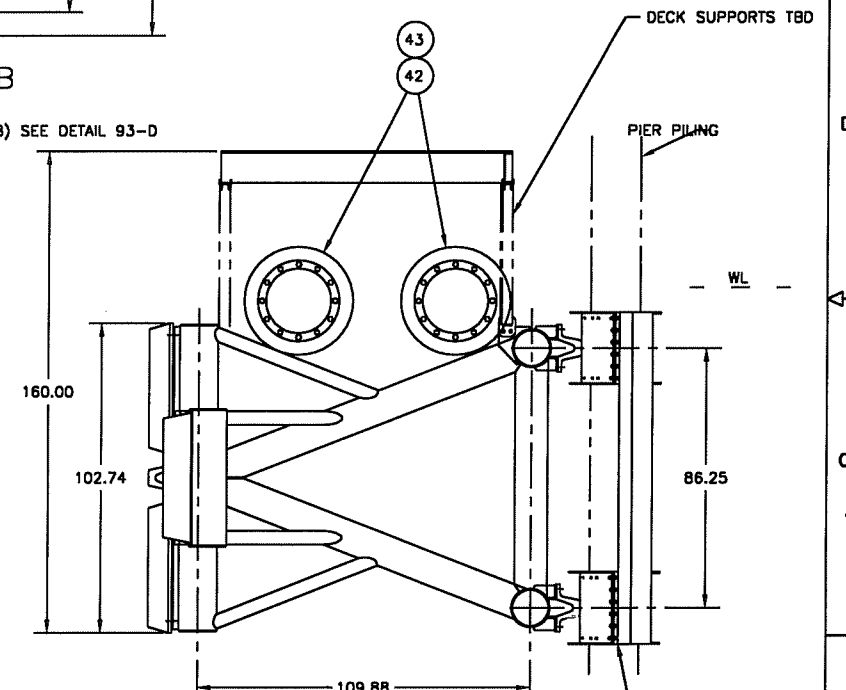
REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APPROVED



PLAN VIEW 13-D

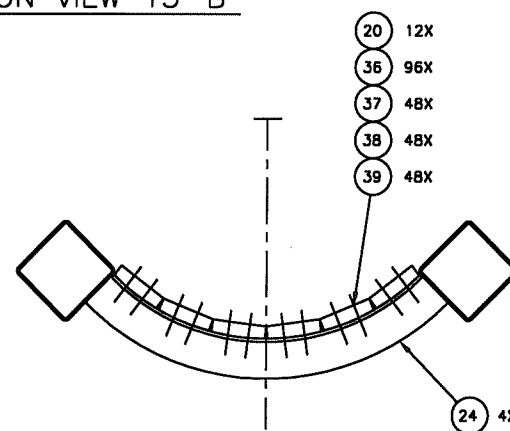


ELEVATION VIEW 13-B



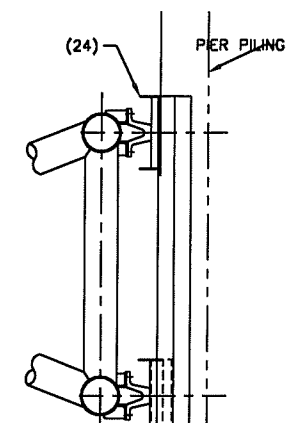
PLAN VIEW 15-A

SCALE: 1 1/2"=1'-0"
2 PLACES

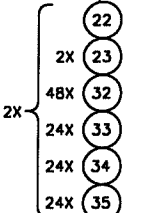


PLAN VIEW 12-A

SCALE: 1 1/2"=1'-0"
4 PLACES



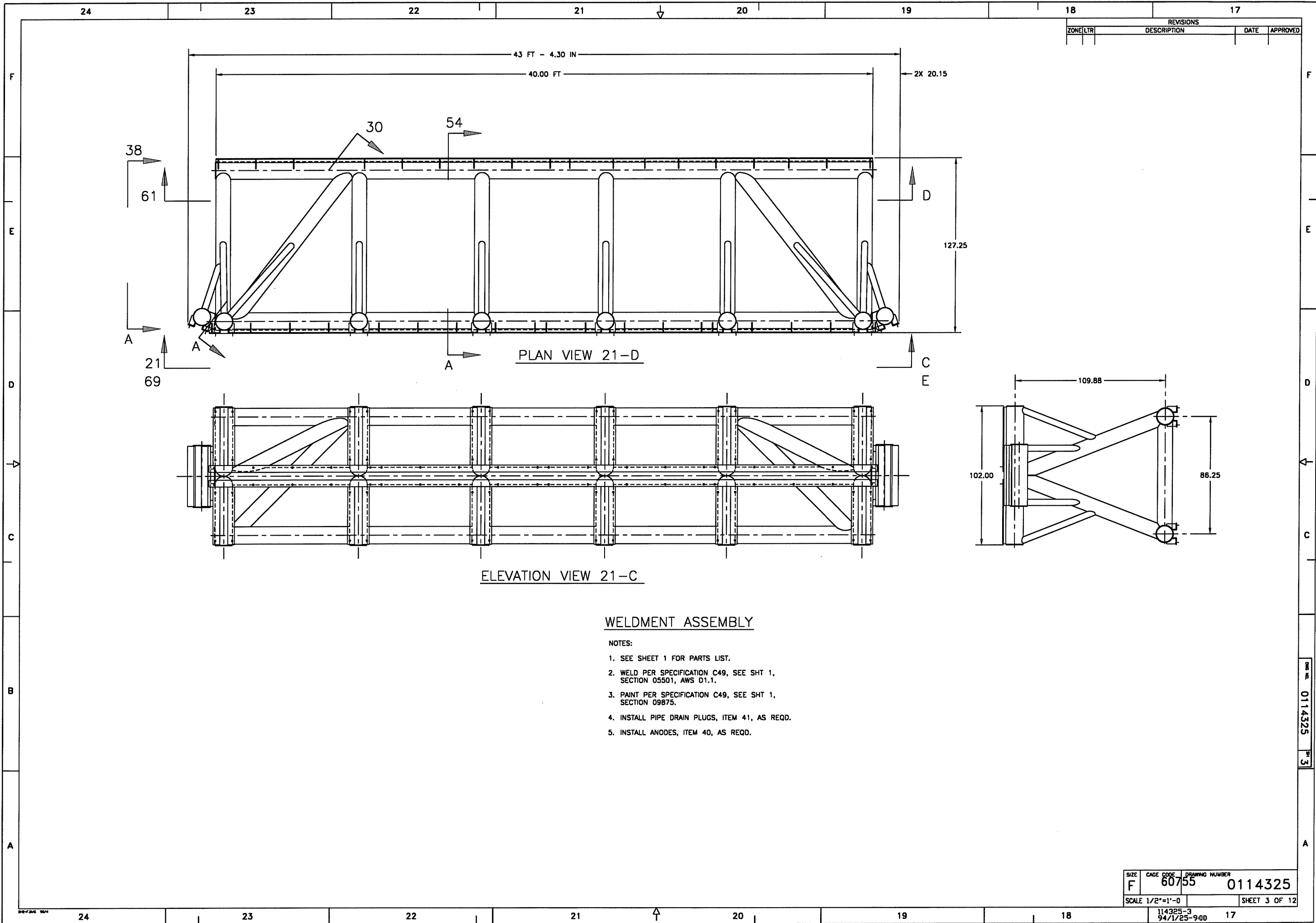
VIEW 11-A

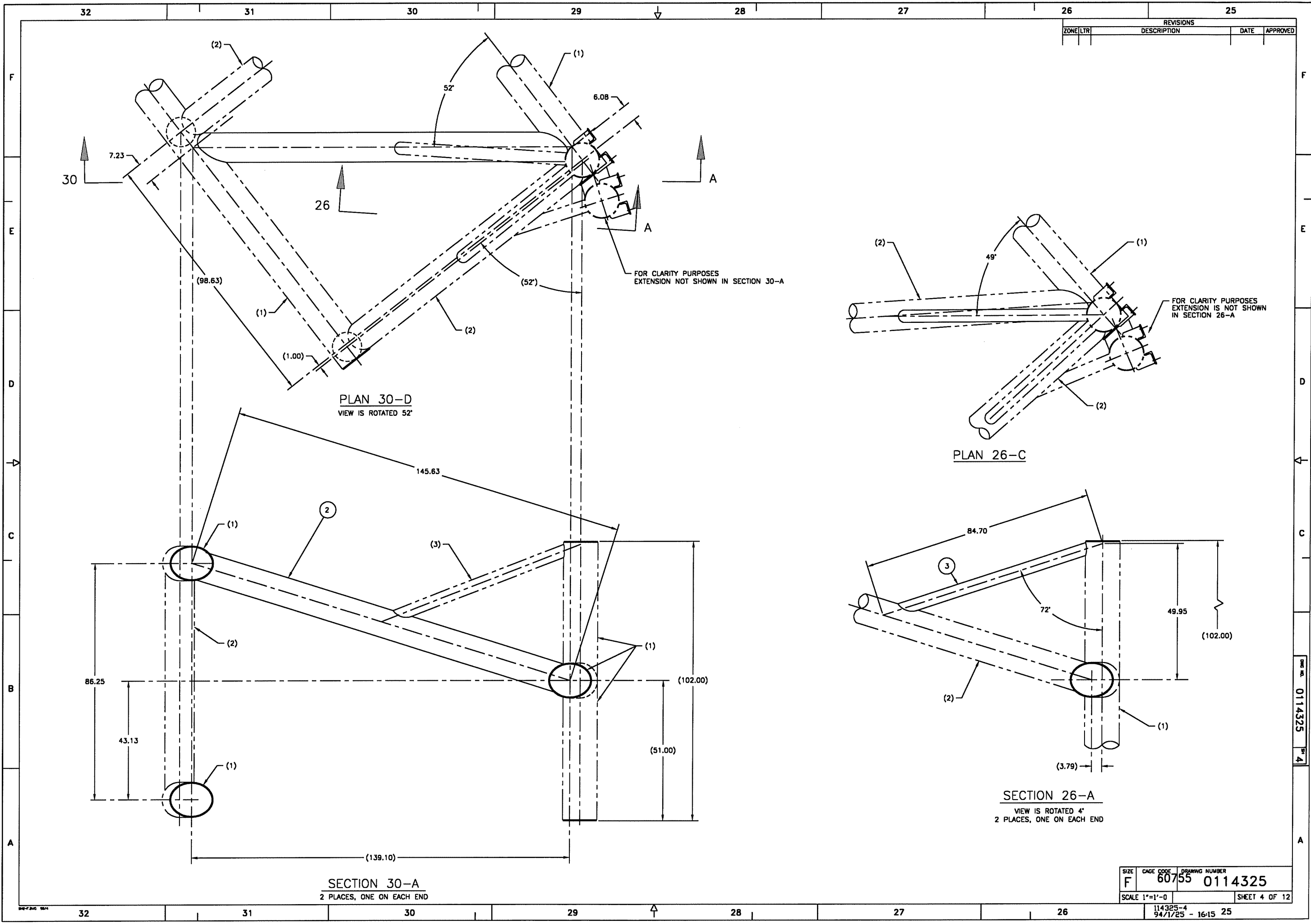


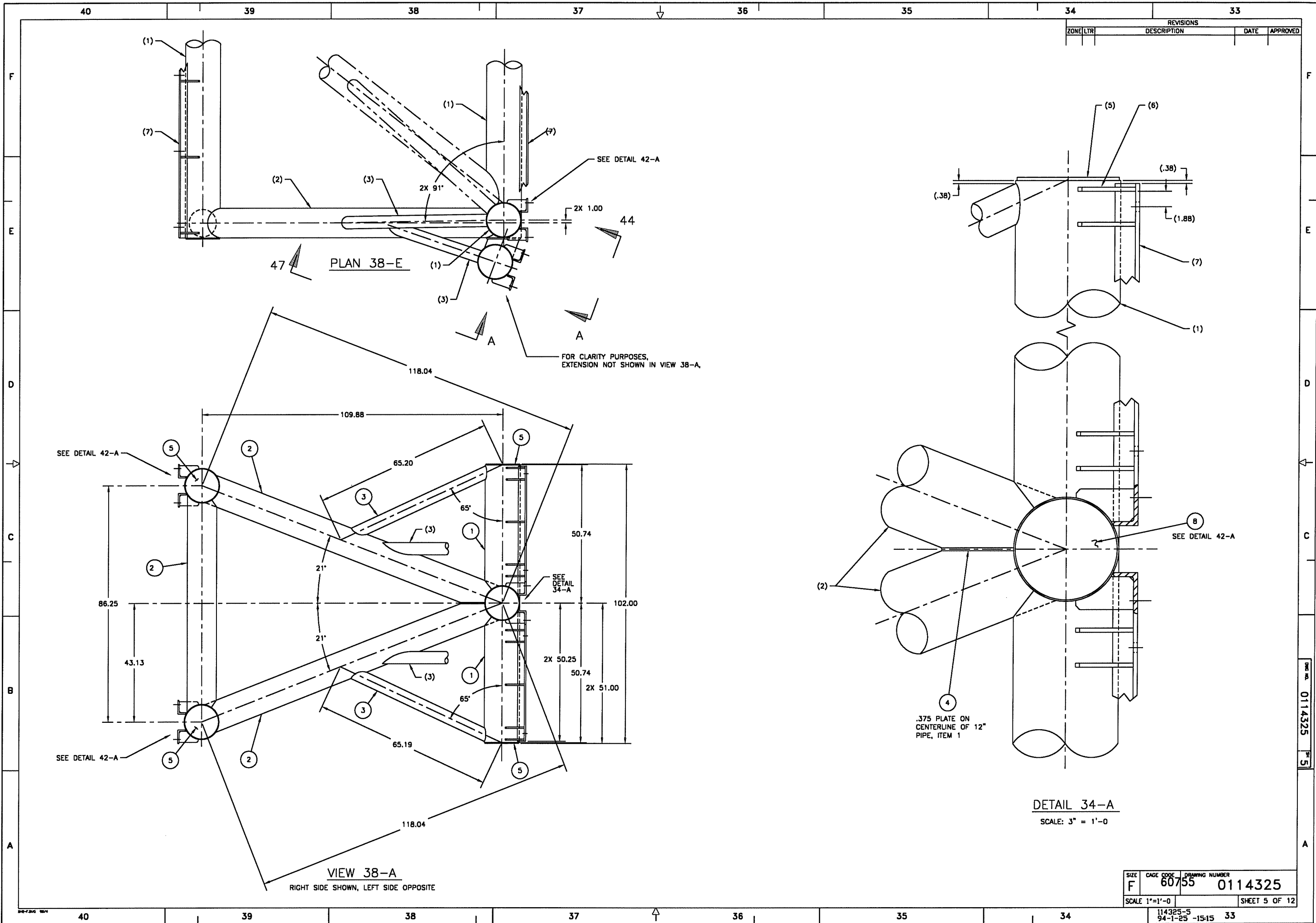
SIZE	CAGE CODE	DRAWING NUMBER
F	60755	0114325
SCALE	1/2"=1'-0"	SHEET 2 OF 12

114325-2
94/1/25-900

0114325
2







REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APPROVED

SIZE	CAGE CODE	DRAWING NUMBER
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SCALE 1"=1'-0"		SHEET 5 OF 12

114325-5
94-1-25 -15-15 33

48

47

46

45

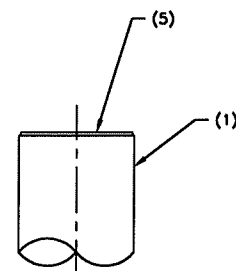
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43

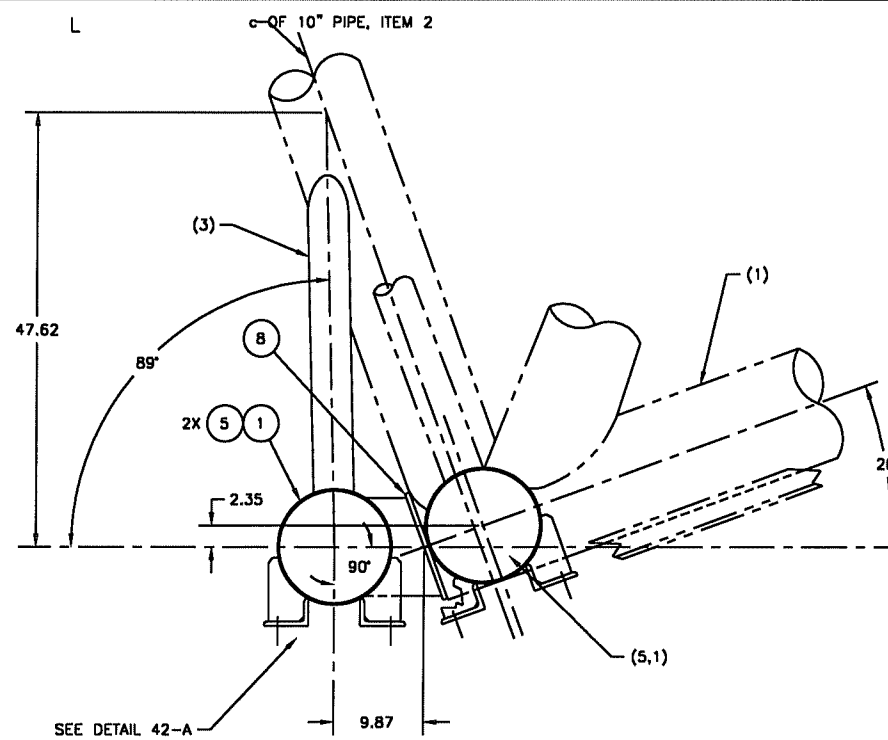
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41

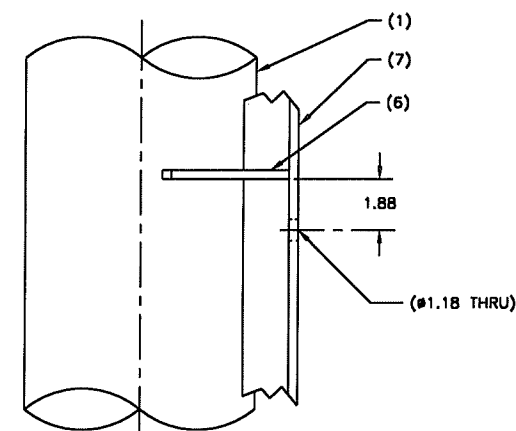
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ZONE/LTR	DESCRIPTION	DATE	APPROVED



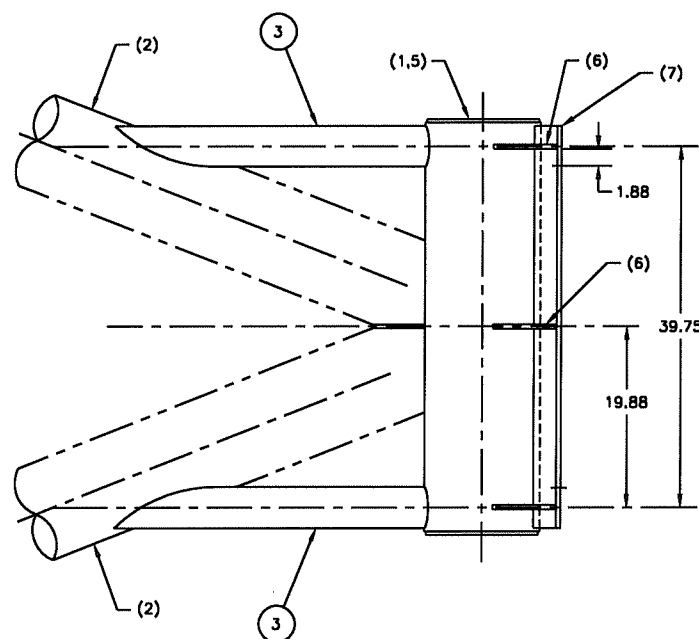
DETAIL 47-E
TYPICAL END CAP ARRANGEMENT



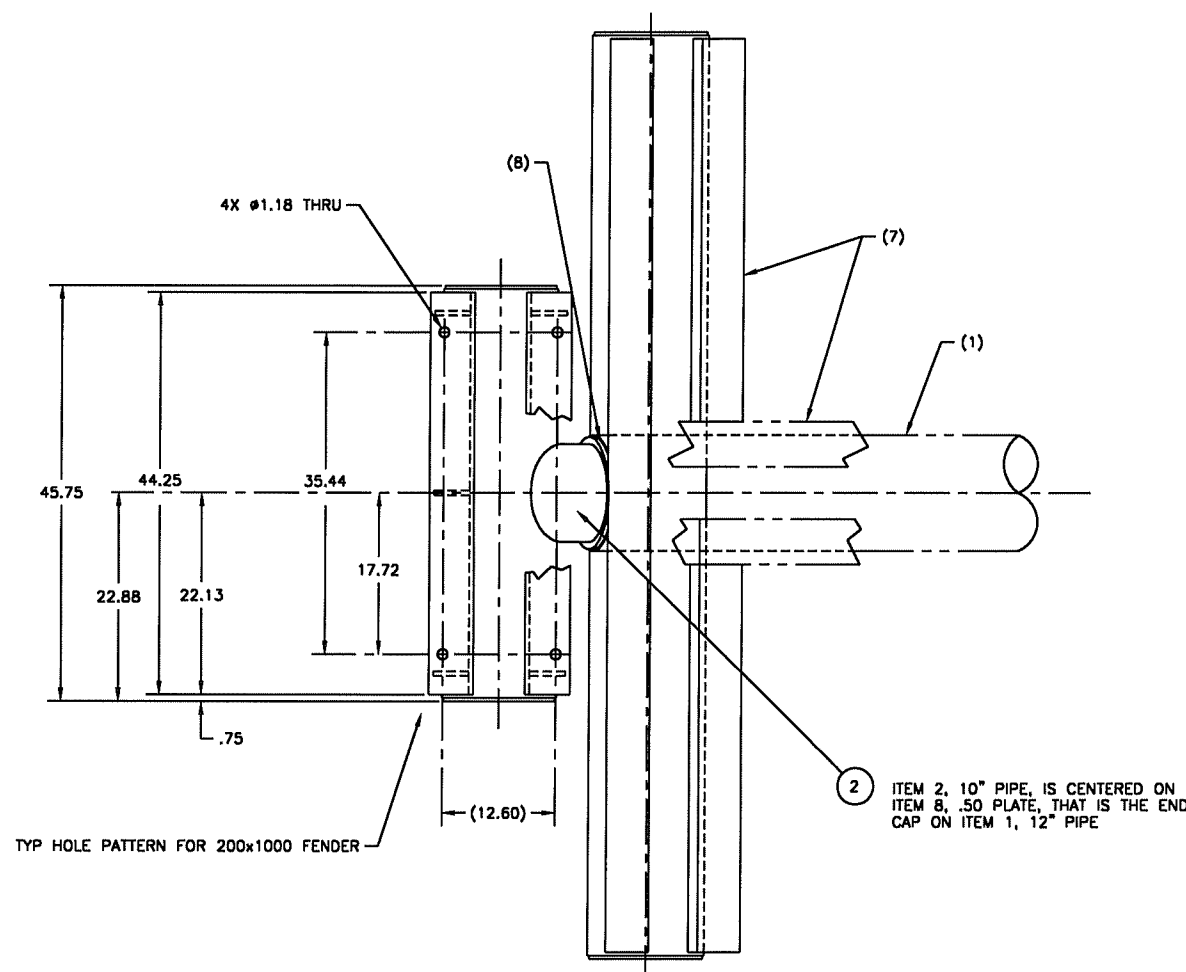
PLAN 44-E



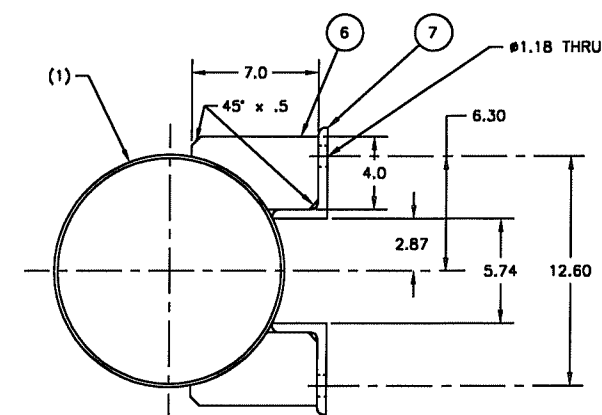
PLAN 42-C
SCALE: 3"=1'-0"
TYP PLAN VIEW OF DETAIL 42-A
TYP LOCATION OF GUSSET



VIEW 47-A
RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE



VIEW 44-A



DETAIL 42-A
SCALE: 3"=1'-0"
TYPICAL GUSSET PLATE & ANGLE ARRANGEMENT

SIZE	CAGE CODE	DRAWING NUMBER
F	60755	0114325
SCALE 1.5"=1'-0"	114325-6	94/1/25-1406

SHEET 6 OF 12

0114325 6

56

55

54

53

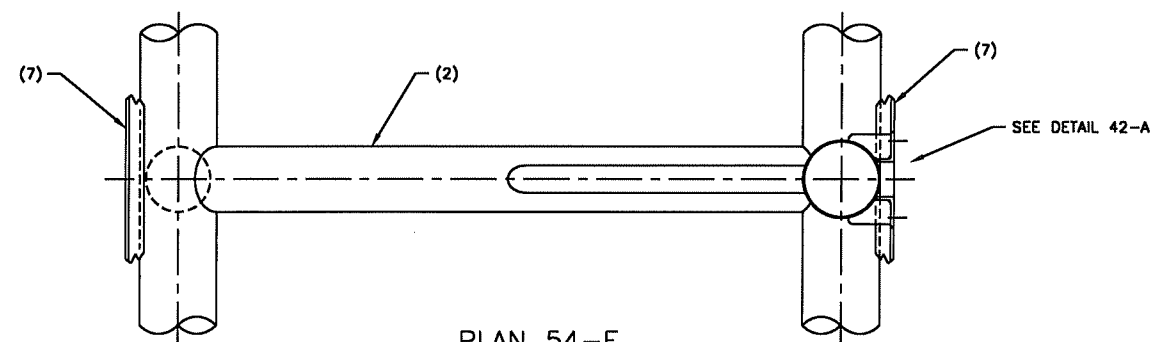
52

51

50

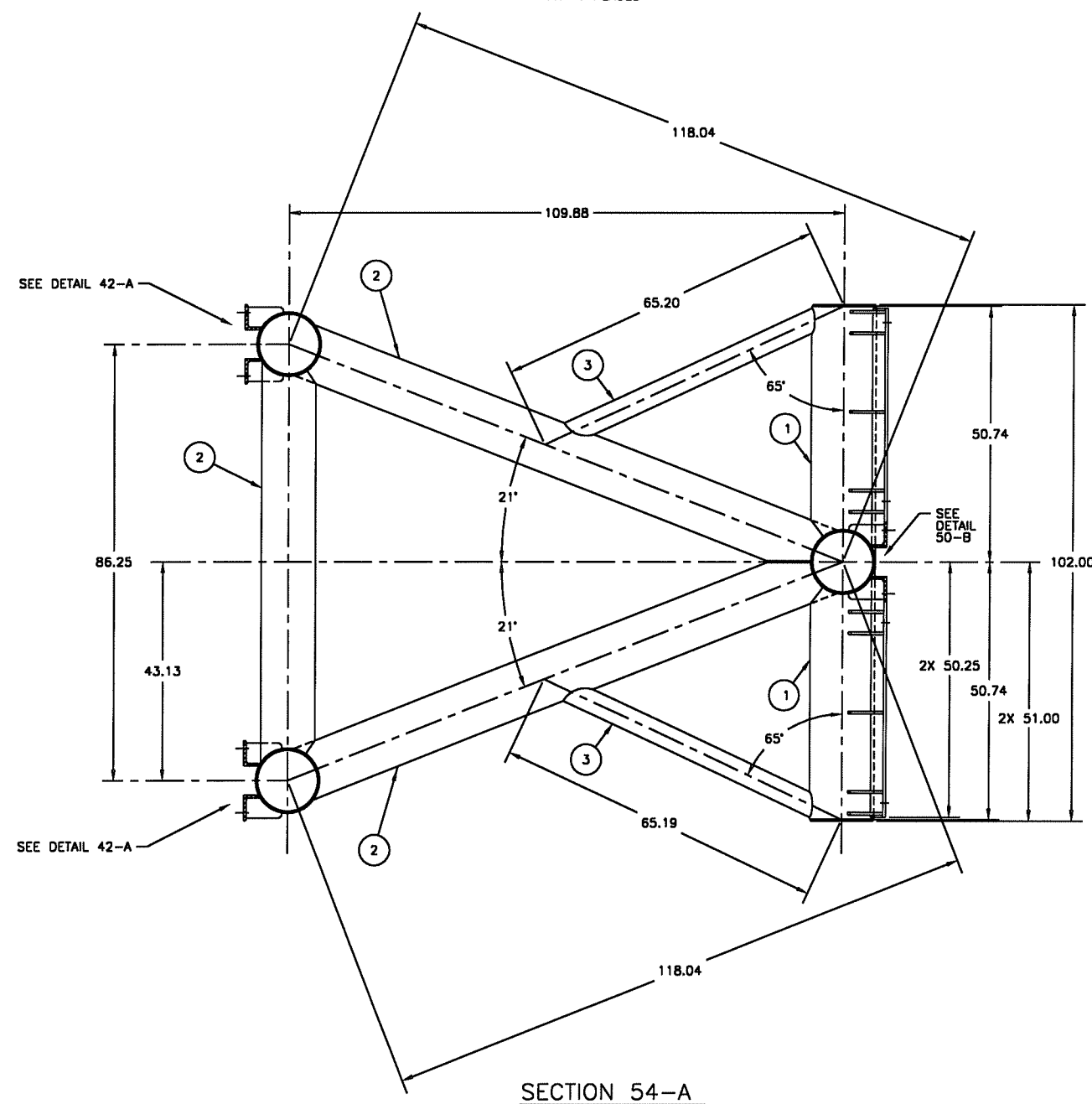
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REVISIONS			
ZONE	LTR	DESCRIPTION	DATE
			APPROVED

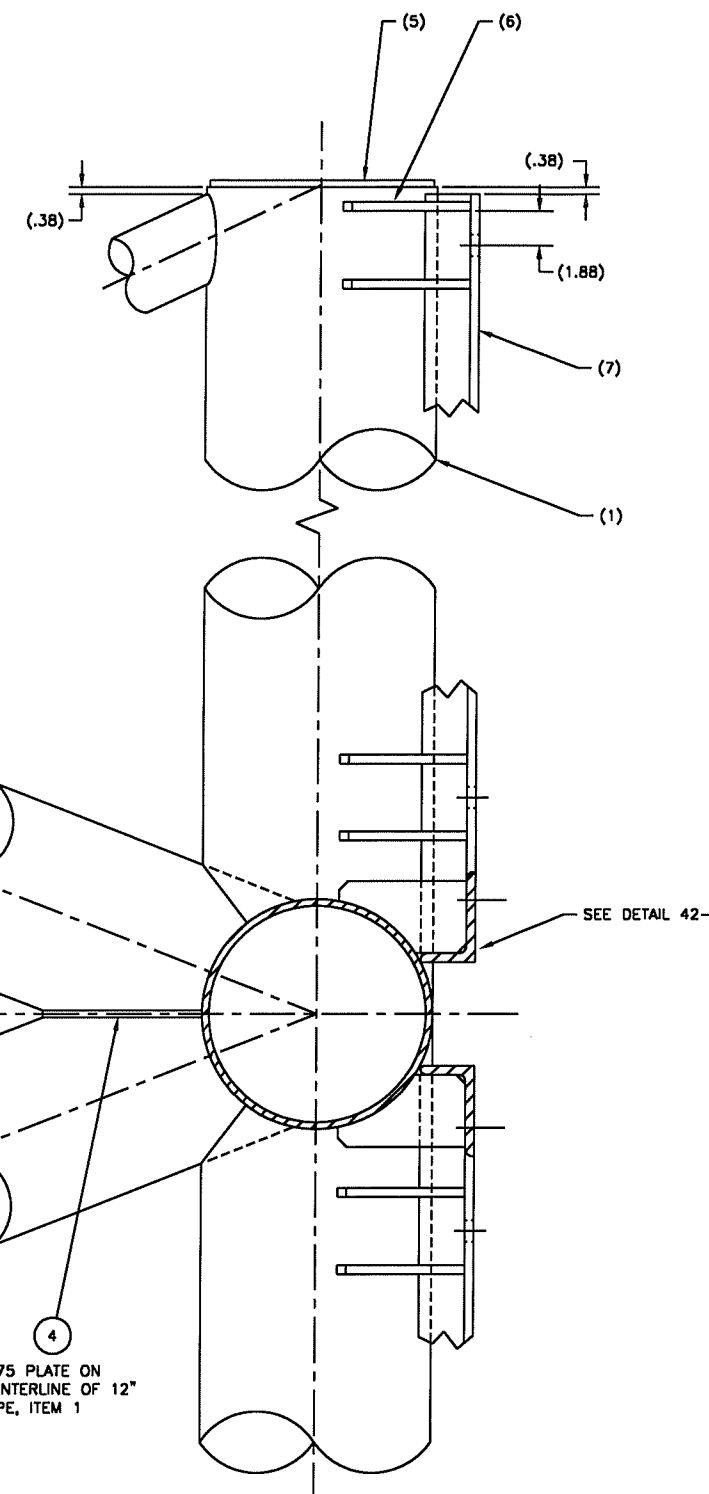


PLAN 54-E

TYP 4 PLACES



SECTION 54-A

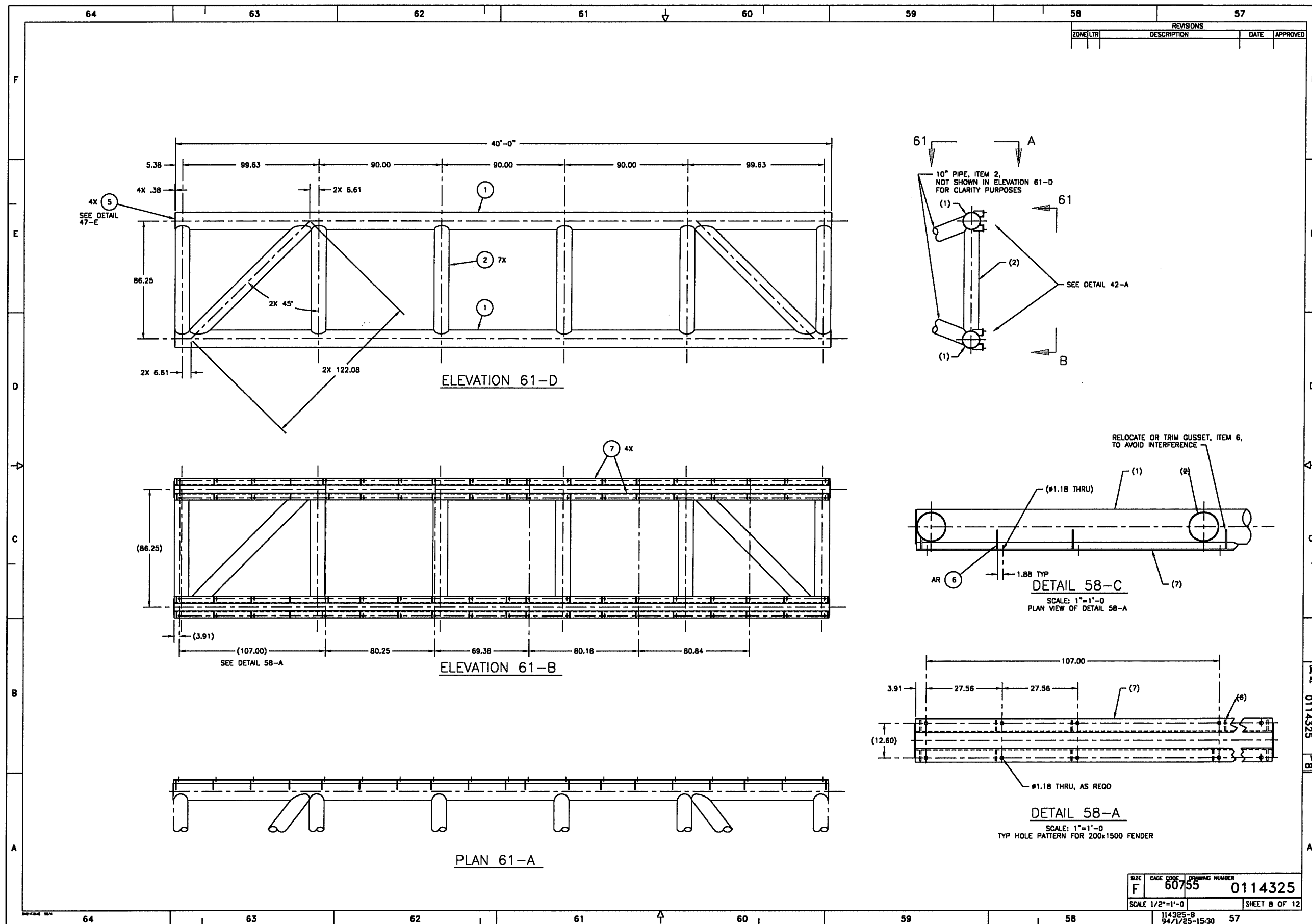
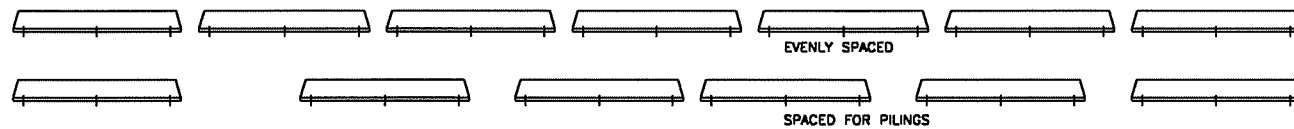


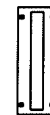
DETAIL 50-B

SCALE: 3" = 1'-0"

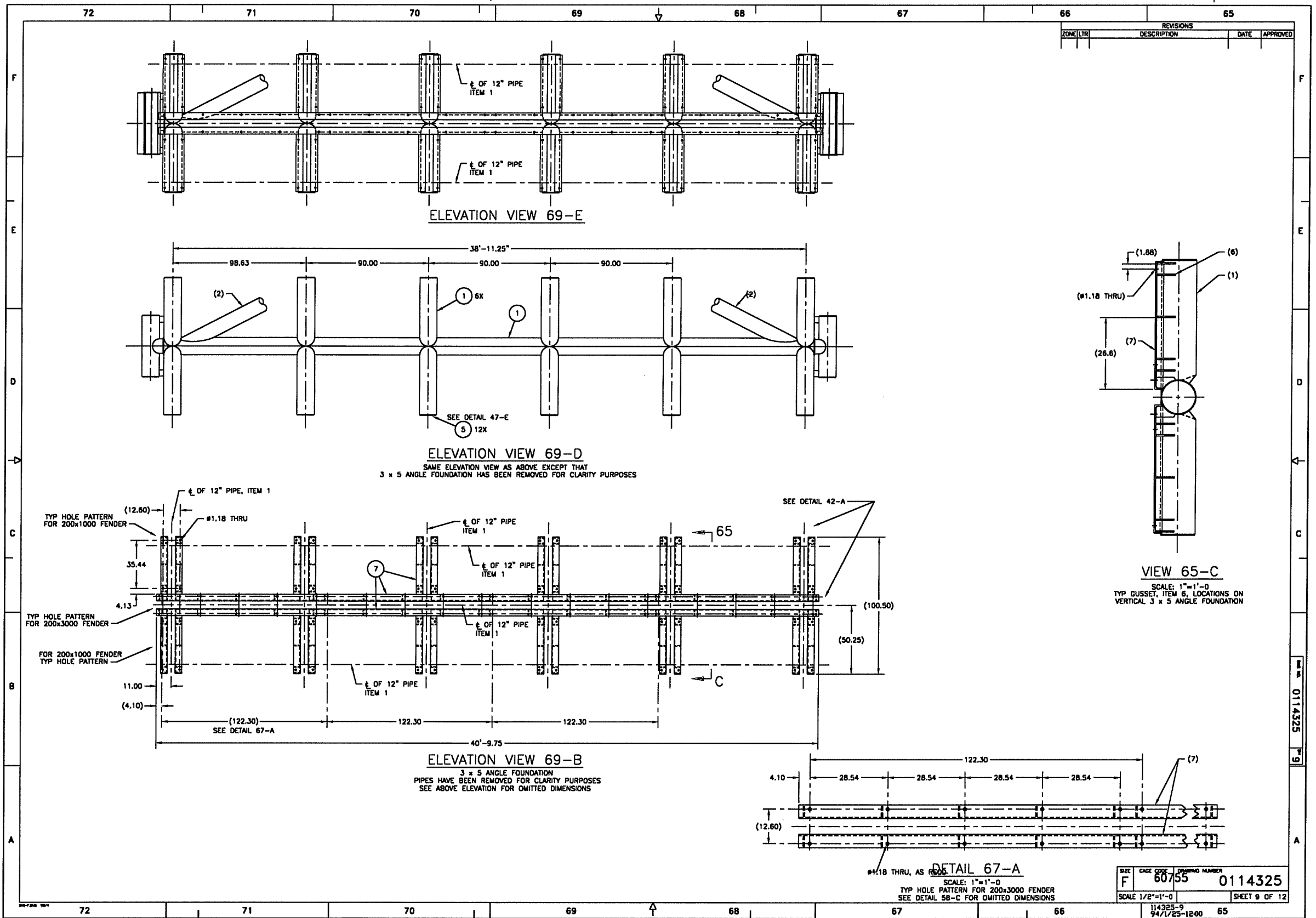
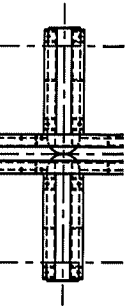
SIZE	CAGE CODE	DRAWING NUMBER
F	60755	0114325
SCALE 1"=1'-0"		SHEET 7 OF 12

114325-7
94-1-25 - 13-15 49

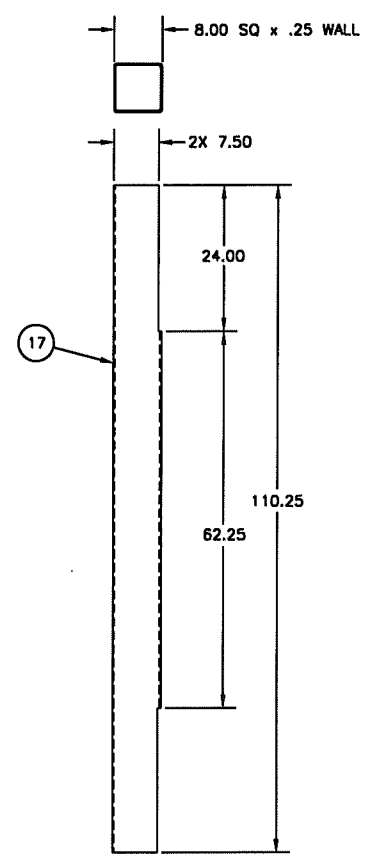




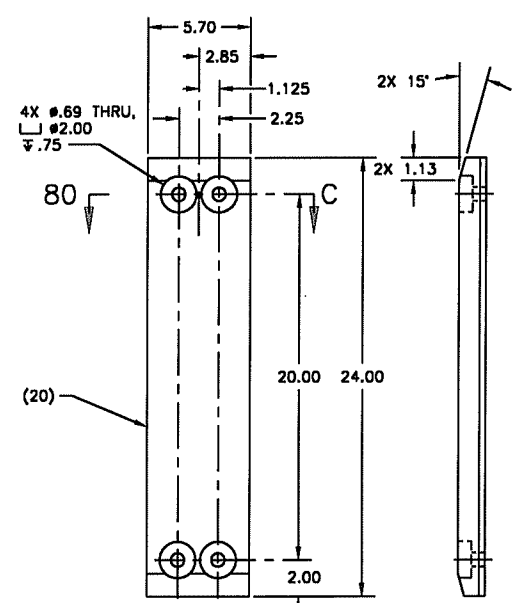
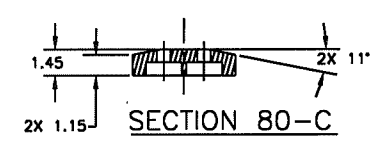
26.6000



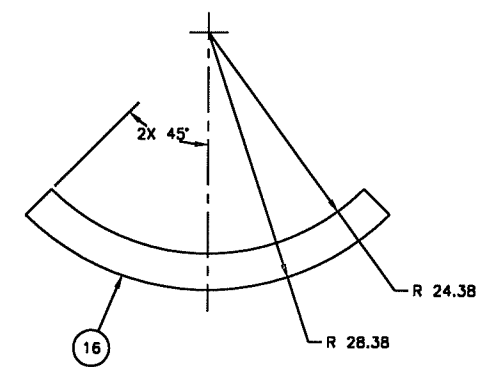
REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APPROVED



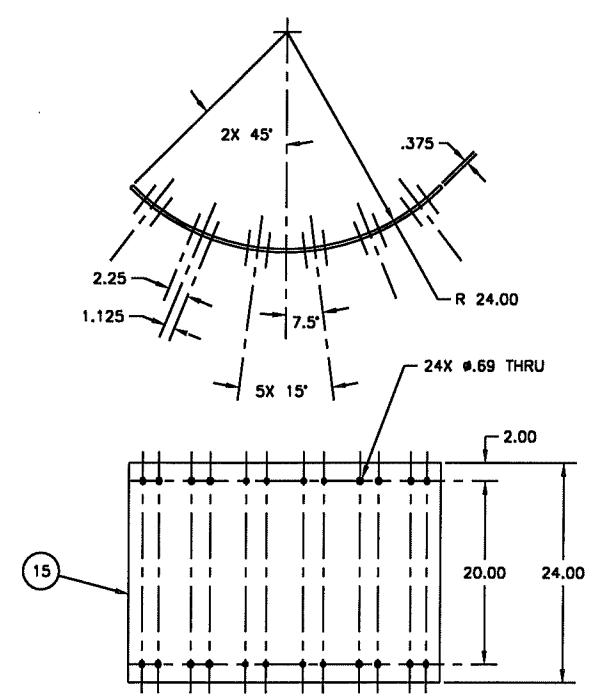
DETAIL 79-D
SCALE: 1"=1'-0"



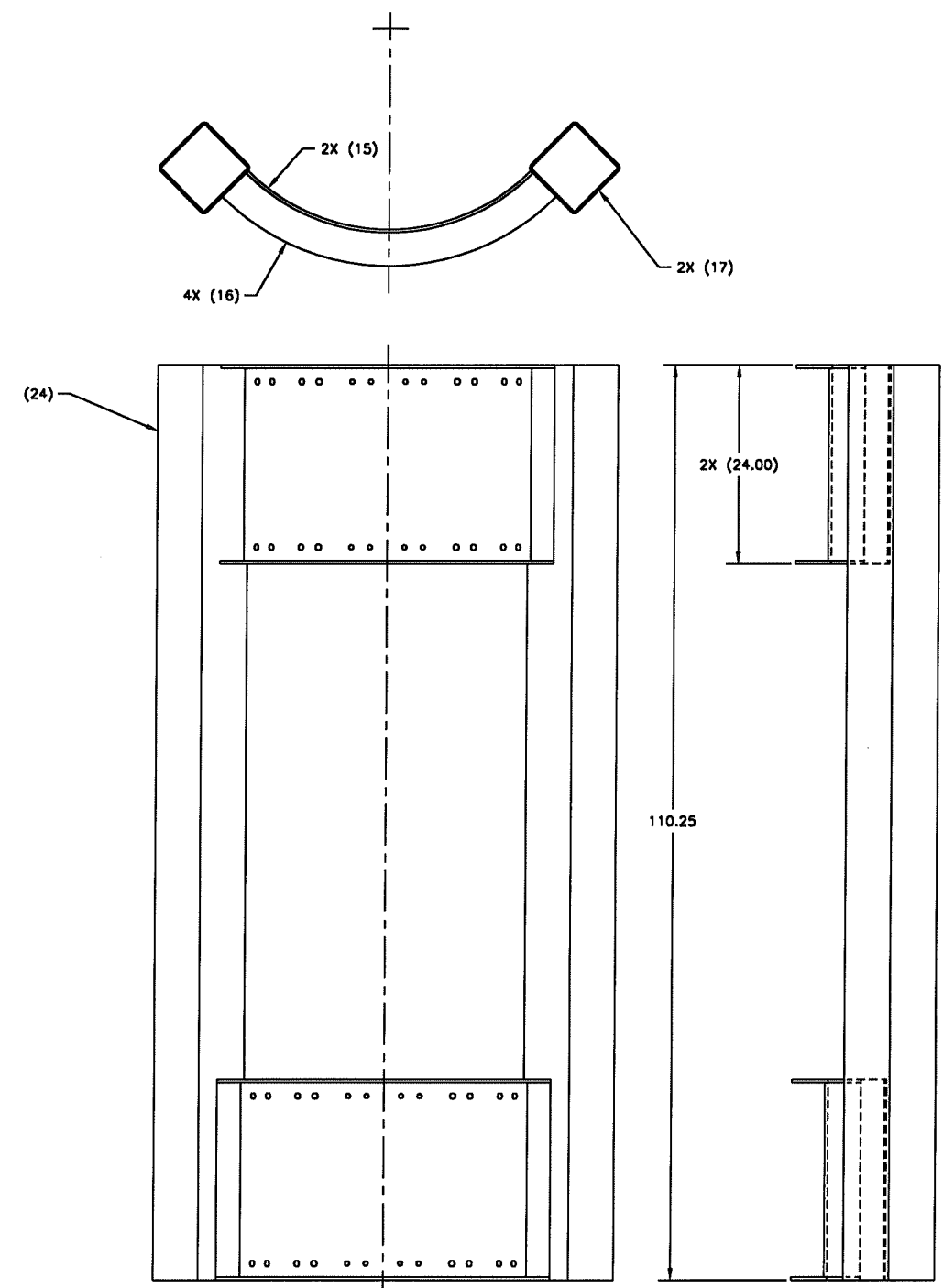
DETAIL 79-A
SCALE: 3" = 1'-0"
CUT FROM 1.5" UHMW-PE



DETAIL 77-D
.50 THK PLATE



DETAIL 77-D
.375 THK PLATE



MID PIER GUARD
WELDMENT ASSY 75-A

SIZE	CAGE CODE	DRAWING NUMBER
F	60755	0114325

SCALE 1.5"=1'-0"	SHEET 10 OF 12
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14325-10
94/1/25 -15:15 73

PLOT AT 1"=1'-0"

88

87

86

85

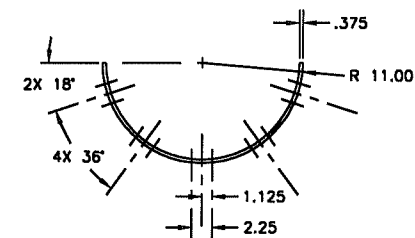
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83

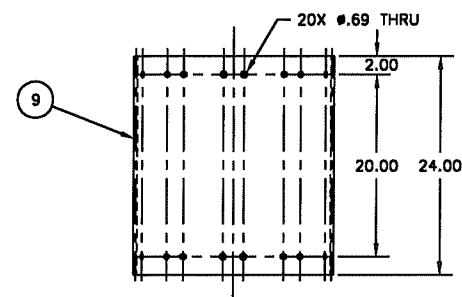
82

81

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE



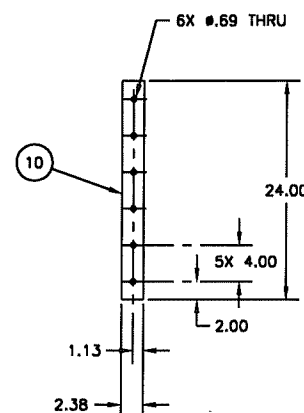
DETAIL 88-D



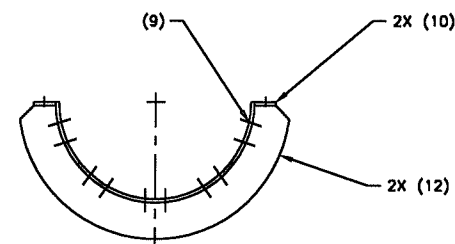
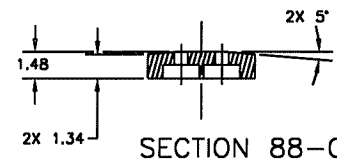
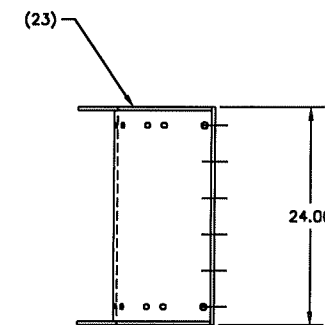
DETAIL 88-A

SCALE: 3" = 1'-0"

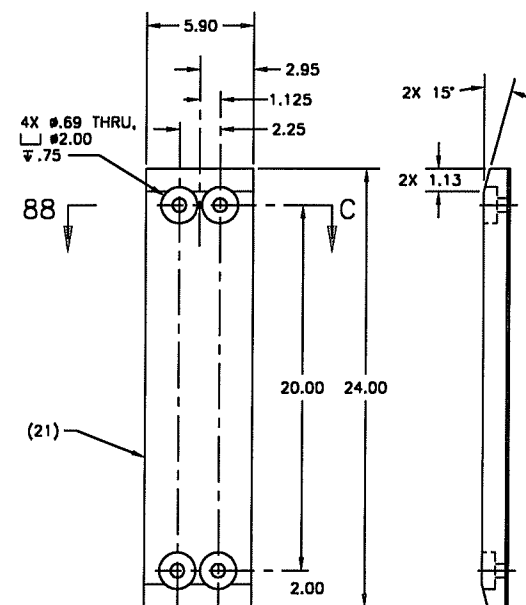
CUT FROM 1.5" UHMW-PE



DETAIL 86-D

(RIGHT SIDE SHOWN, LEFT SIDE OPPOSITE)
1 EA REQD PER WELDMENT ASSYEND PIER GUARD ATTACHMENT
WELDMENT ASSY 85-D

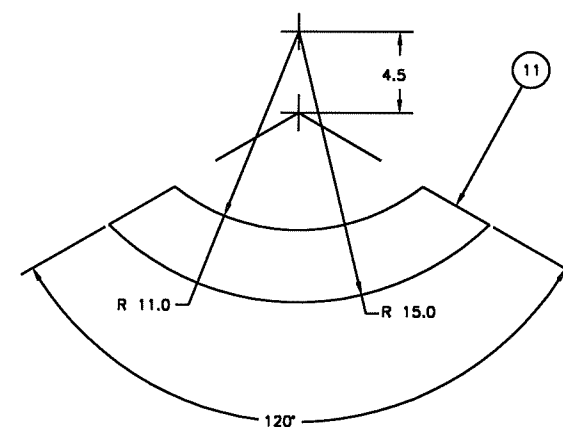
SECTION 88-C



DETAIL 88-A

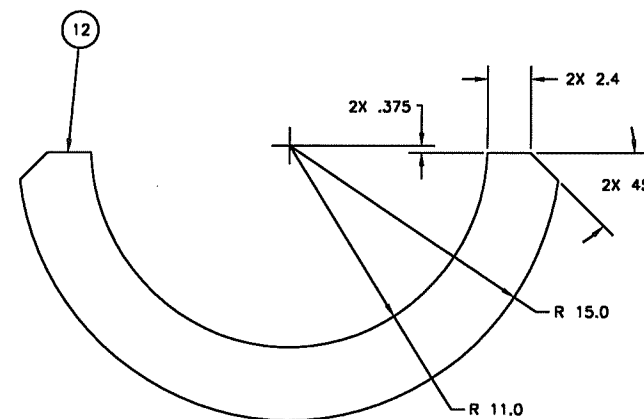
SCALE: 3" = 1'-0"

CUT FROM 1.5" UHMW-PE



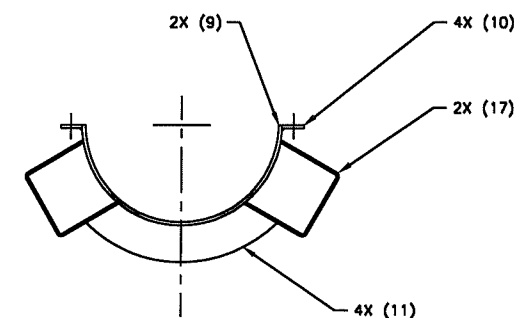
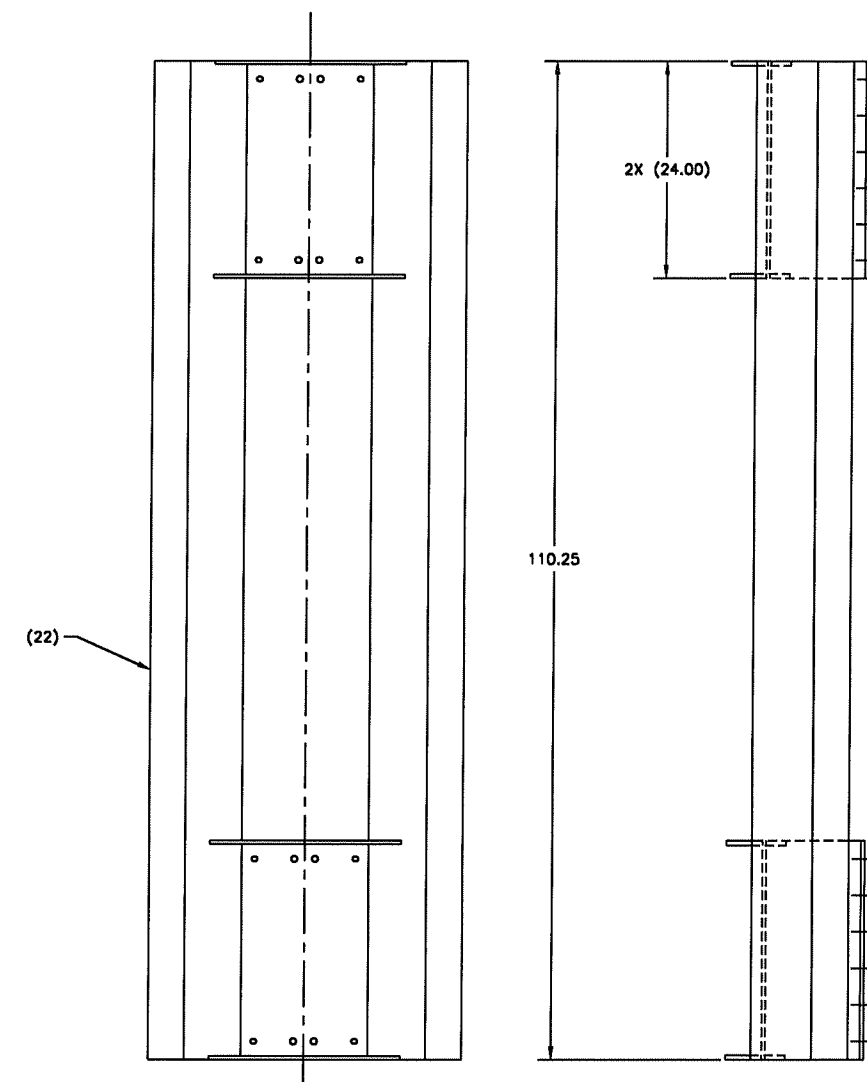
DETAIL 86-B

SCALE: 3" = 1'-0"



DETAIL 84-A

SCALE: 3" = 1'-0"

END PIER GUARD
WELDMENT ASSY 82-A

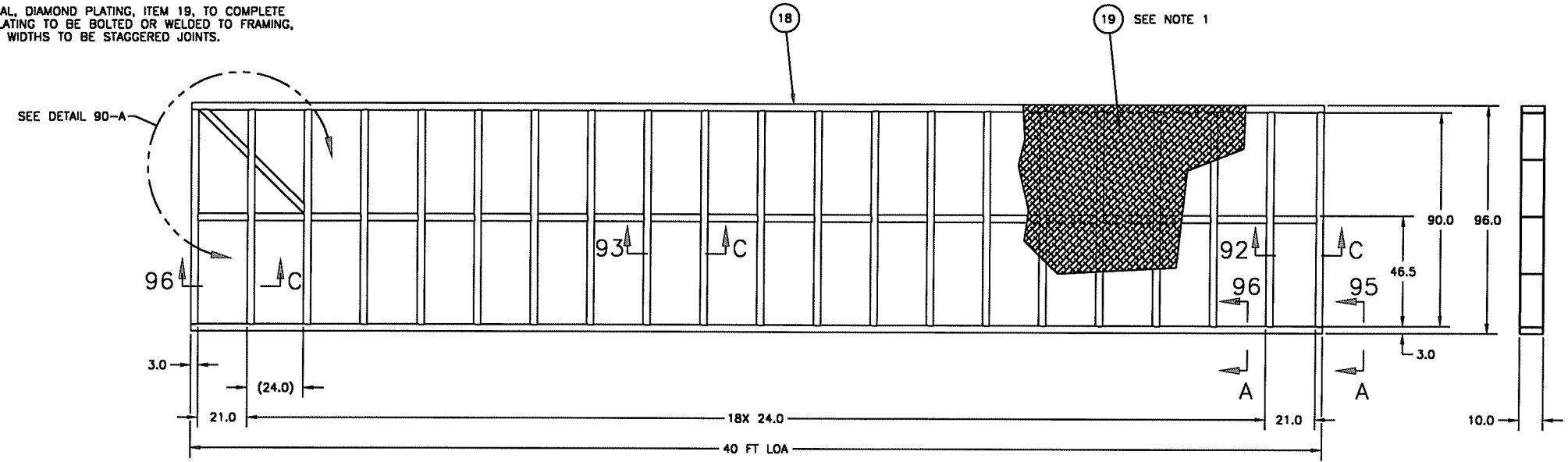
SIZE	CAGE CODE	DRAWING NUMBER
F	60755	0114325
SCALE 1.5"=1'-0"		SHEET 11 OF 12

14325-11
94/1/25 -15:15 81

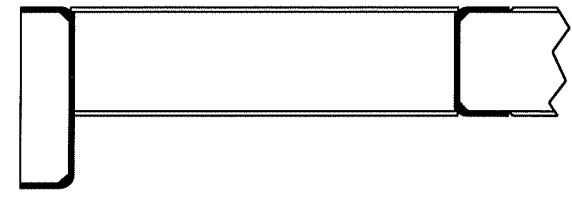
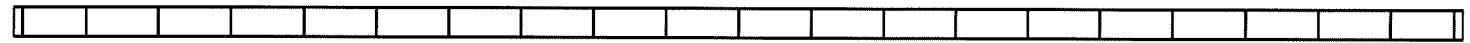
0114325 11

NOTES:
1. USE EXISTING MATERIAL, DIAMOND PLATING, ITEM 19, TO COMPLETE DECK ASSEMBLY. PLATING TO BE BOLTED OR WELDED TO FRAMING, ITEM 18, FOUR FOOT WIDTHS TO BE STAGGERED JOINTS.

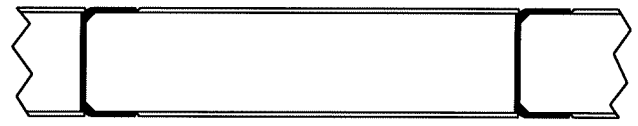
REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APPROVED



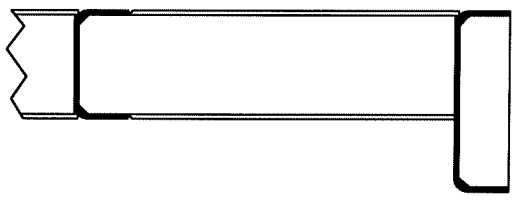
DECK FRAMING DETAIL 93-D
.25 THK PLATE



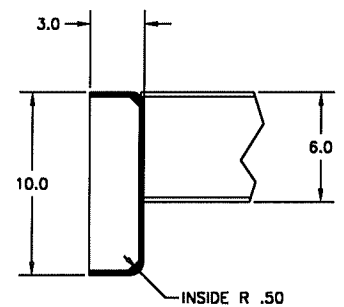
SECTION 96-C
SCALE: 3"=1'-0



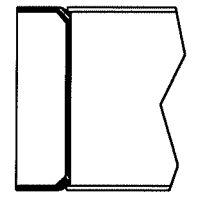
SECTION 93-C
SCALE: 3"=1'-0



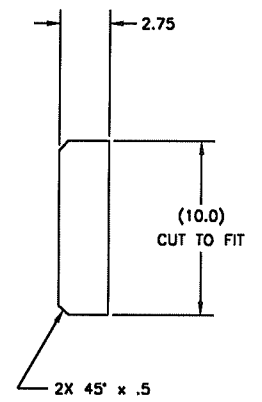
SECTION 92-C
SCALE: 3"=1'-0



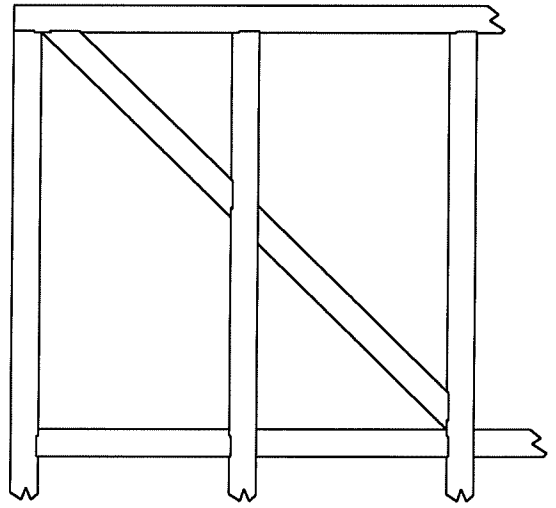
SECTION 96-A
SCALE: 3"=1'-0



DETAIL 95-A
SCALE: 3"=1'-0



DETAIL 93-A
SCALE: 3"=1'-0
TYP GUSSET DETAIL
.25 THK PLATE



DETAIL 90-A
SCALE: 1 1/2"=1'-0
TYP WELD JOINT DETAIL

SIZE	CAGE CODE	DRAWING NUMBER
F	60755	0114325
SCALE 1/2"=1'-0	14325-12	SHEET 12 OF 12

94/1/24-12-00 89