

FOR TUBE CENTRES  
SEE DRG. MN 11570 & MH 4660 B

D 3'-8 3/8"

E 4'-0 3/8"

ELEMENTS (R & L HAND)				DIMENSION "Z"
A1, B1	D1	J1		1'-3"
A2, B2	D2	J2		1'-2 1/2"
A3, B3	E1	J3		1'-2"
A4, B4	E2	J4		1'-1 1/2"
A5 - C	H	J5		1'-1"
A6, B5	E3	J6		1'-0 1/2"
A7, B6	E4	J7		1'-0"
A8, B7	E5	J7		11"
G.F.	J8-J10			11"
	J9			10 1/2"

B 2'-9 3/8"

A 1'-6 1/8"

FOR DETAILS OF SUPPORTS  
SEE DRG. NO. MH 4660 B

D & E INLETS 3'-0 7/8"

B INLET 1'-9 7/8"

A INLET 1'-9 7/8"

D & E OUTLETS 1'-0 1/2"

D OUTLET 1'-9 3/4"

E OUTLET 2'-1 1/2"

ELEMENTS A1-B1-D1 = 8'-8 3/4" STRAIGHT  
" A2-B2-D2 = 8'-8 1/4" "  
" A3-B3-E1 = 8'-7 3/4" "  
" A4-B4-E2 = 8'-7 1/4" "  
" A5 = 8'-6 1/2" "  
" A6-B5-E3 = 8'-6" "  
" A7-B6-E4 = 8'-5 1/2" "  
" A8-B7-E5 = 8'-5" "

RADIUS OF BENDS ON INLETS & OUTLETS (EXCEPT J & N INLETS) = 2'-2"  
" " BRIDGE BENDS & SETS = 1'-8"  
" " U. BENDS (FLAT) = 1'-8"  
" " " (SLOPING) = 1'-6"  
NOTE: RADIUS OF BEND ON J & N INLETS  
MUST NOT EXCEED 1'-8"

#### NOTES

1. ALL BRIDGE BENDS & SETS MUST BE MADE AS NEAR AS POSSIBLE TO DRAWING.
  2. IT MUST BE ASCERTAINED THAT BRIDGE BENDS WILL GIVE THE CLEARANCE REQUIRED.
  3. ALL ELEMENT COLLARS MUST BE CLEARLY STAMPED WITH LETTER, HAND & NUMBER.
  4. ALSO A METAL TAG MUST BE ATTACHED TO EACH ELEMENT TO BEAR IDENTIFICATION.
- THE ABOVE NOTES ALSO APPLY TO DRG. NO. M.B. 11610.
5. NOTE CAREFULLY THE POSITION OF INLET & OUTLET ON EACH ELEMENT.

19/14 M SOLID DRAWN STEEL PIPES

TO PASS BOARD OF TRADE & LLOYD'S SURVEY

WORKING PRESSURE 210 LBS PER SQ. INCH

TEST

630

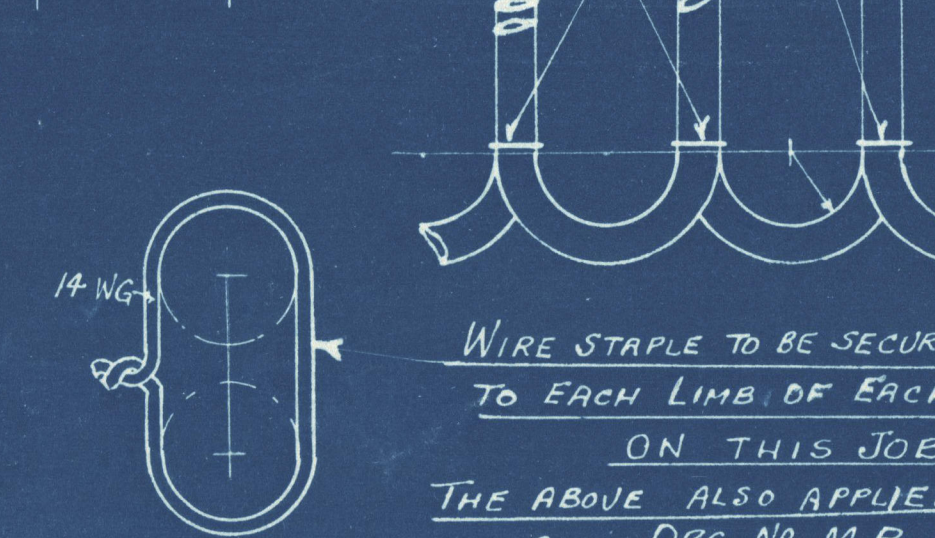
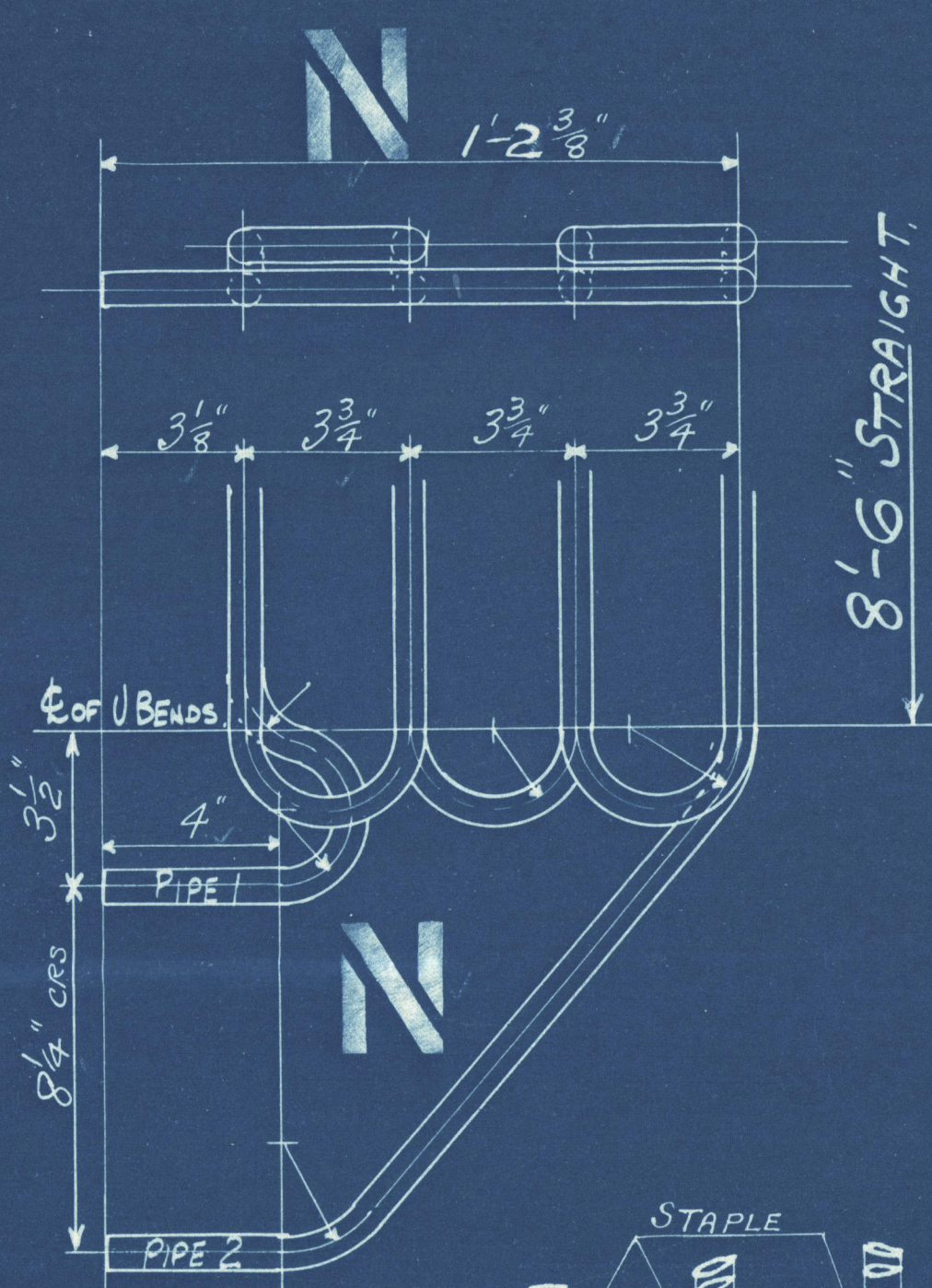
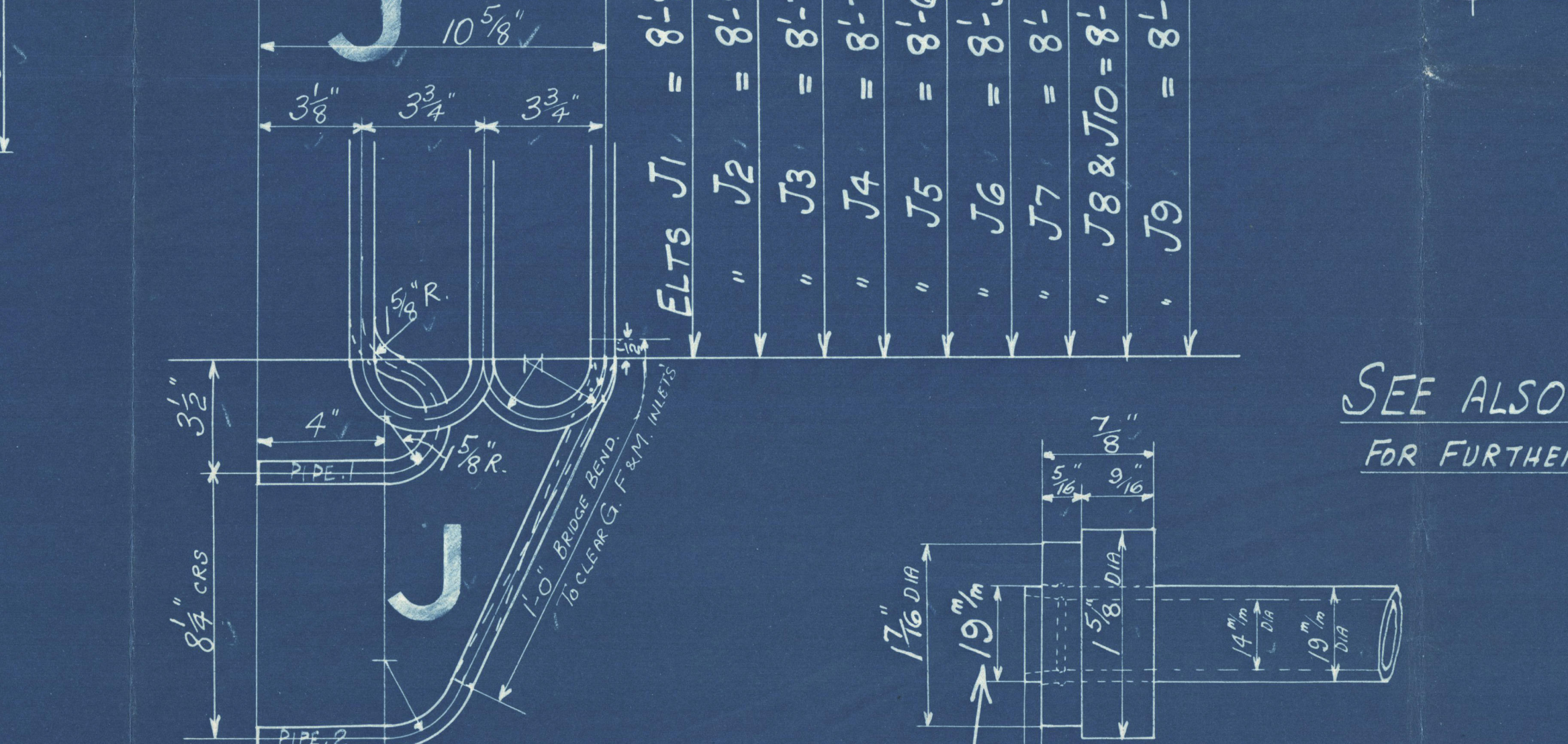
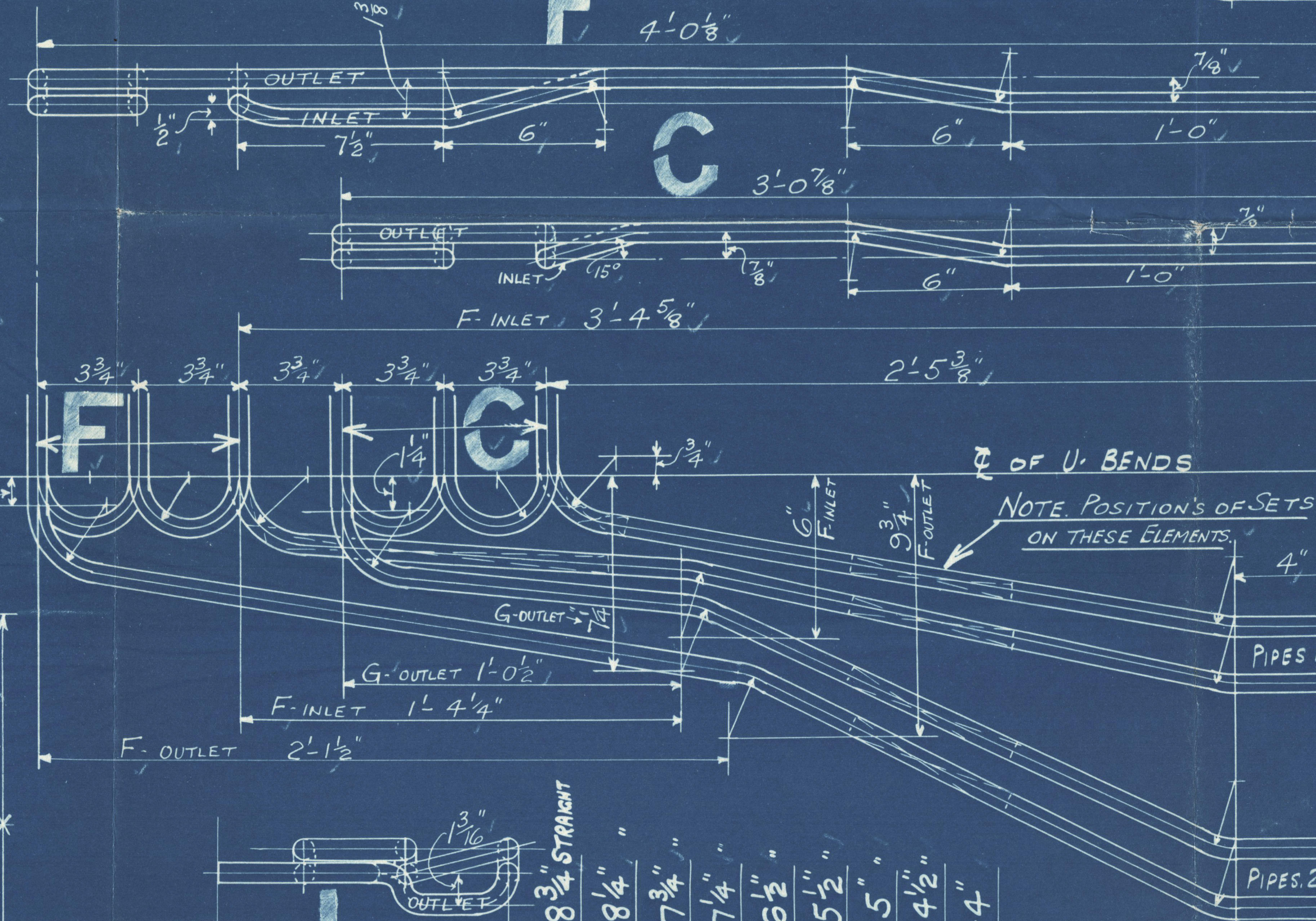
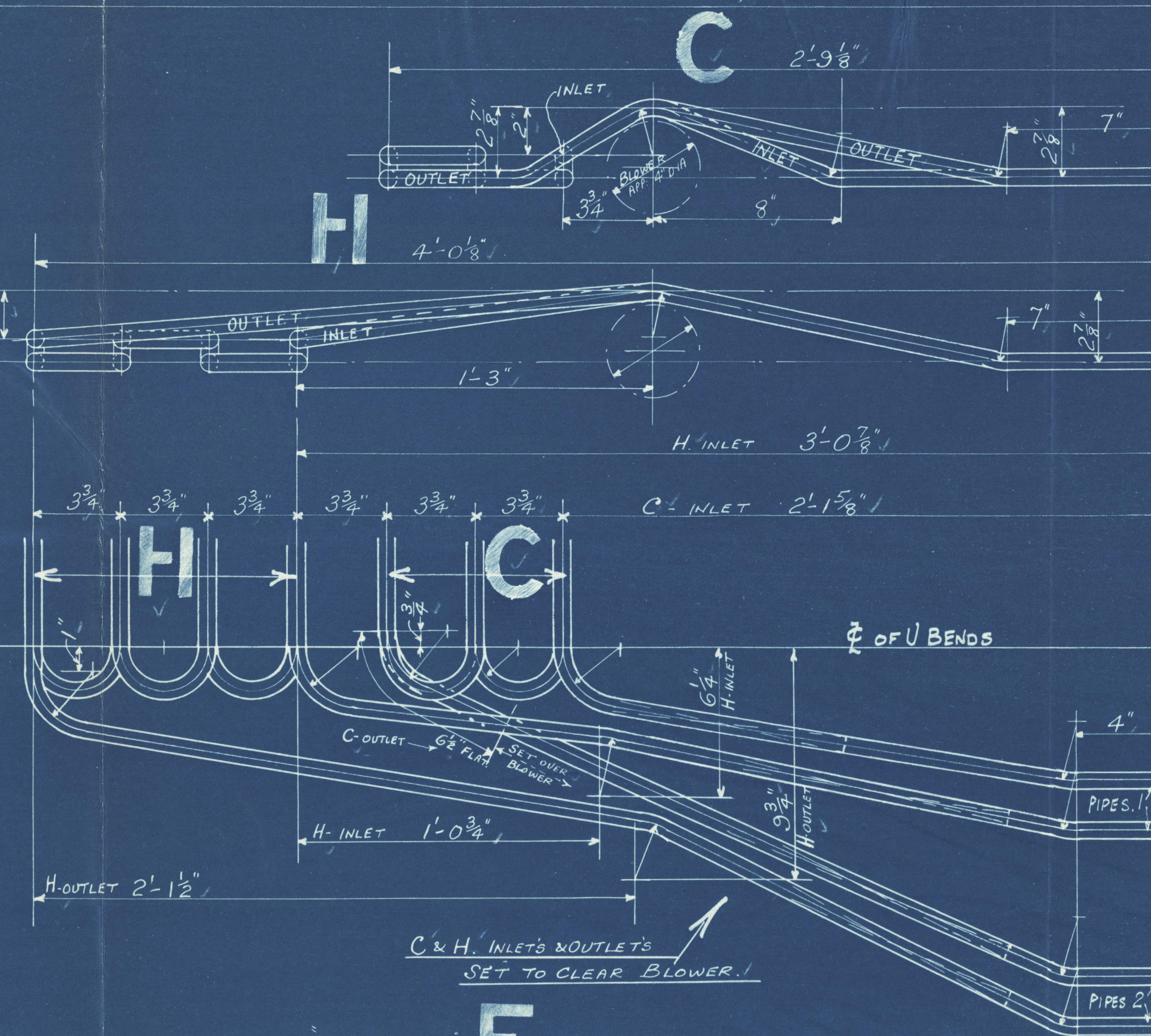
SCALE  
1/3" = 1 FOOT

DWG. NO. TCB

DATE 4/10/57

ELTS H & C = 8'-6 1/2" STRAIGHT

ELTS F & G = 8'-4 1/2" STRAIGHT



WIRE STAPLE TO BE SECURED (ABOUT U-BEND) TO EACH LIMB OF EACH ELEMENT ON THIS JOB.

THE ABOVE ALSO APPLIES TO ELEMENTS - ON DRG. NO. M.B. 11610.

LENGTHS BEFORE BENDING OR FORGING		NO. OFF PER SET		REMARKS	ELEMENT
U BENDS	PIPE 1	PIPE 2			
18'-0 1/2"	9'-7"	10'-10 1/2"	2	1 R.H. & 1 L.H.	A1
17'-11 1/2"	9'-6 1/2"	10'-10"	2	1 " & 1 "	A2
17'-10 1/2"	9'-6"	10'-9 1/2"	2	1 " & 1 "	A3
17'-9 1/2"	9'-5 1/2"	10'-9"	2	1 " & 1 "	A4
17'-8 1/2"	9'-5"	10'-8 1/2"	2	1 " & 1 "	A5
17'-7 1/2"	9'-4 1/2"	10'-8"	2	1 " & 1 "	A6
17'-6 1/2"	9'-4"	10'-7 1/2"	2	1 " & 1 "	A7
17'-5 1/2"	9'-3 1/2"	10'-7"	2	1 " & 1 "	A8
18'-0 1/2"	10'-9"	11'-10 1/2"	2	1 " & 1 "	B1
17'-11 1/2"	10'-8 1/2"	11'-9 1/2"	2	1 " & 1 "	B2
17'-10 1/2"	10'-8"	11'-9"	2	1 " & 1 "	B3
17'-9 1/2"	10'-7 1/2"	11'-8 1/2"	2	1 " & 1 "	B4
17'-8 1/2"	10'-7"	11'-8"	2	1 " & 1 "	B5
17'-7 1/2"	10'-6 1/2"	11'-7 1/2"	2	1 " & 1 "	B6
17'-6 1/2"	10'-6"	11'-7"	2	1 " & 1 "	B7
17'-5 1/2"	10'-5 1/2"	11'-6 1/2"	2	1 " & 1 "	C
17'-4 1/2"	10'-5"	11'-6"	2	1 " & 1 "	C
18'-0 1/2"	12'-2 1/2"	12'-10 1/2"	2	1 " & 1 "	D1
17'-11 1/2"	12'-2"	12'-9 1/2"	2	1 " & 1 "	D2
17'-10 1/2"	12'-1 1/2"	13'-1 1/2"	2	1 " & 1 "	E1
17'-9 1/2"	12'-1"	13'-1"	2	1 " & 1 "	E2
17'-8 1/2"	12'-0"	13'-0"	2	1 " & 1 "	E3
17'-6 1/2"	11'-11 1/2"	12'-11 1/2"	2	1 " & 1 "	E4
17'-5 1/2"	11'-11"	12'-11"	2	1 " & 1 "	E5
17'-4 1/2"	12'-2"	12'-11 1/2"	2	1 " & 1 "	F
17'-4 1/2"	11'-1"	11'-11 1/2"	2	1 " & 1 "	G
17'-8 1/2"	12'-2"	13'-3"	2	1 " & 1 "	H
18'-0 1/2"	9'-7 1/2"	10'-5 1/2"	2	1 " & 1 "	J1
17'-11 1/2"	9'-7"	10'-5"	2	1 " & 1 "	J2
17'-10 1/2"	9'-6 1/2"	10'-4 1/2"	2	1 " & 1 "	J3
17'-9 1/2"	9'-6"	10'-4"	2	1 " & 1 "	J4
17'-8 1/2"	9'-5 1/2"	10'-3 1/2"	2	1 " & 1 "	J5
17'-6 1/2"	9'-5"	10'-3"	2	1 " & 1 "	J6
17'-5 1/2"	9'-4 1/2"	10'-2 1/2"	2	1 " & 1 "	J7
17'-4 1/2"	9'-4"	10'-2"	4	1 off Each R & L.H.	J8 & J10
17'-3 1/2"	9'-3 1/2"	10'-1 1/2"	2	1 R.H. & 1 L.H.	J9
17'-7 1/2"	9'-4 1/2"	10'-3"	2	1 " & 1 "	N

ALLOWANCE FOR FORGED RETURN END = 1/2" U BENDS ORDERED 1/2" LONGER (MIN.) THAN GIVEN LENGTHS  
PIPES 1 & 2 ORDERED TO SUIT ABOVE LENGTHS

SEE ALSO DRG. NO. M.B. 11610  
FOR FURTHER ELEMENTS ON THIS JOB

ORDER NOS	REF	CRD	DRAWING NOS
12128 M	12128 M	12128 M	M.B. 11600

THE SUPERHEATER CO. LTD.  
BUSH HOUSE, LONDON W.C.2

**TITLE: ELEMENTS**

DATE 11-10-57

S.S. EMPRESS OF CANADA

DETAIL OF COLLAR  
FULL SIZE

MUST NOT BE EXCEEDED

W166-0049





Lloyd's Register  
Foundation

W1 66 - 0049