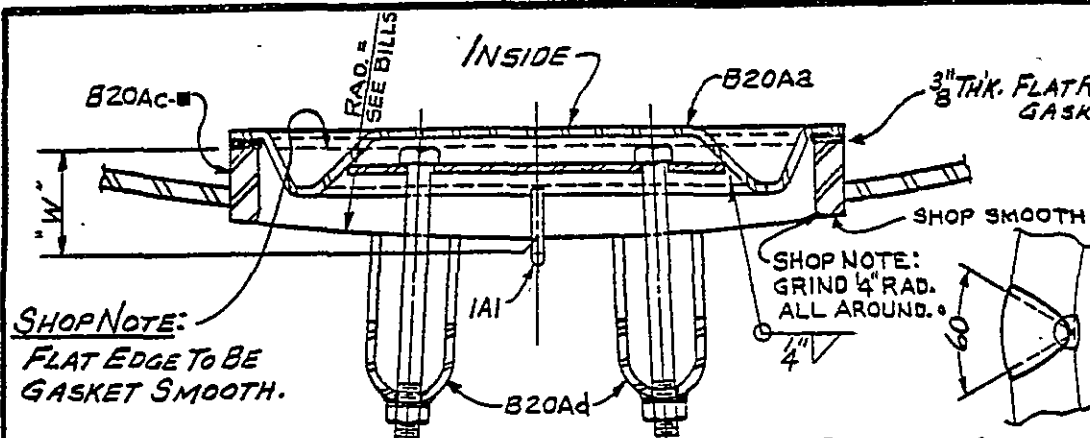
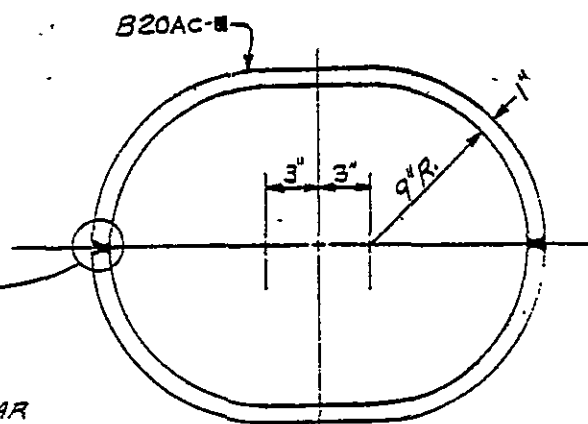
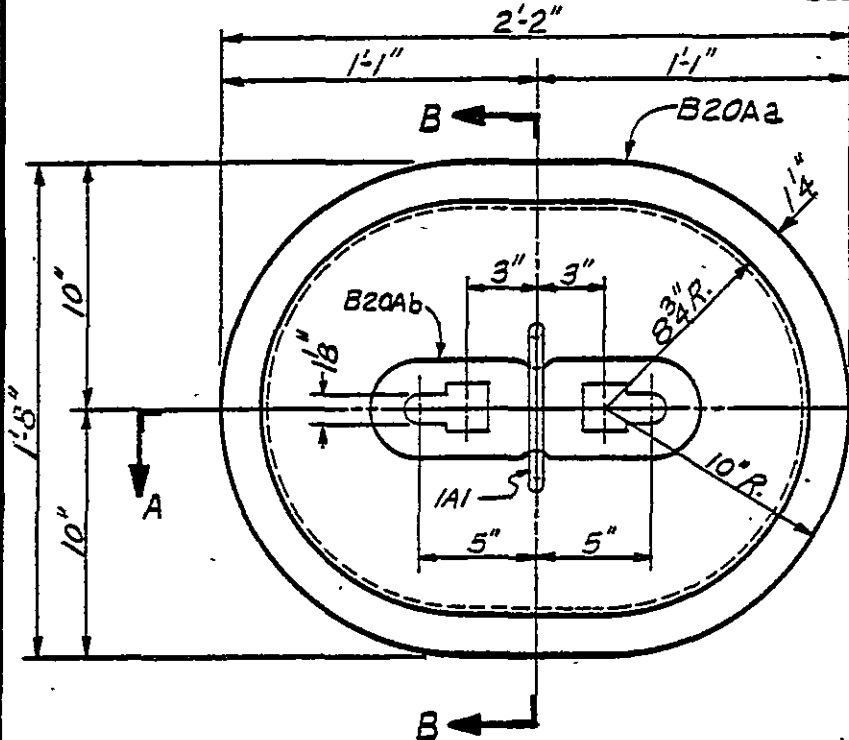




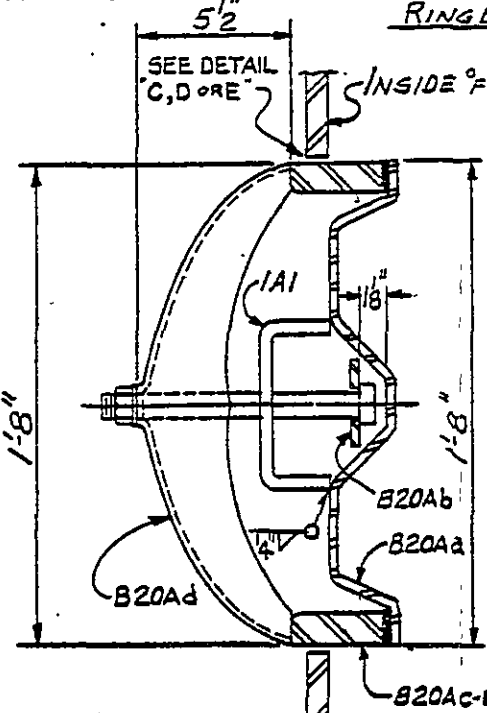
SECTION-A-A



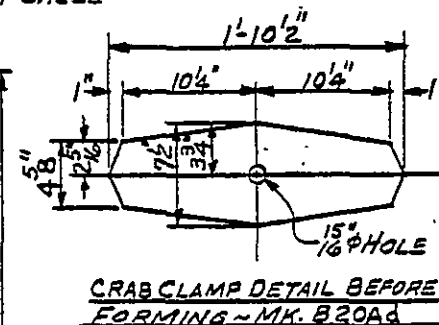
RING BAR DETAIL-MK. B20AC



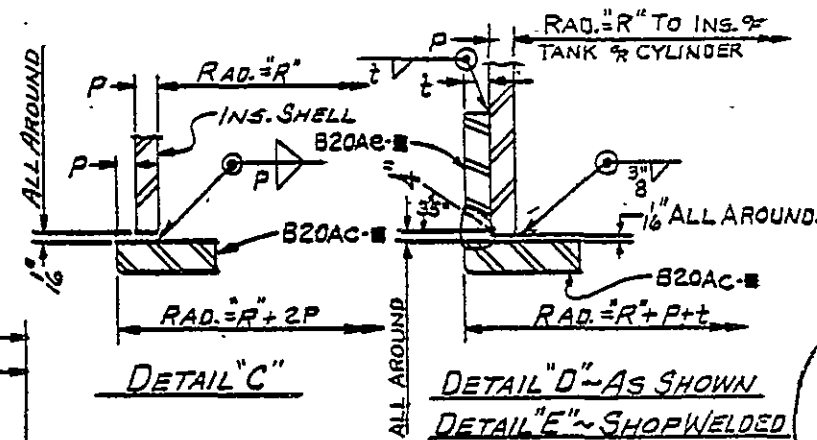
ELEVATION VIEW OF COVER



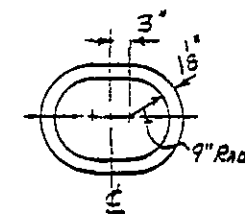
SECTION-B-B



CRAB CLAMP DETAIL BEFORE FORMING-MK. B20Ad



DETAIL C



DETAIL D-AS SHOWN  
DETAIL E-SHOP WELDED

B20f GASKET

FIELD NOTE  
1/4" HOLE IN REINF. PD  
TO BE LEFT OPEN AFTER  
TEST

BILL AS ASSY. OR  
SHPG. PC. AS REQ'D.

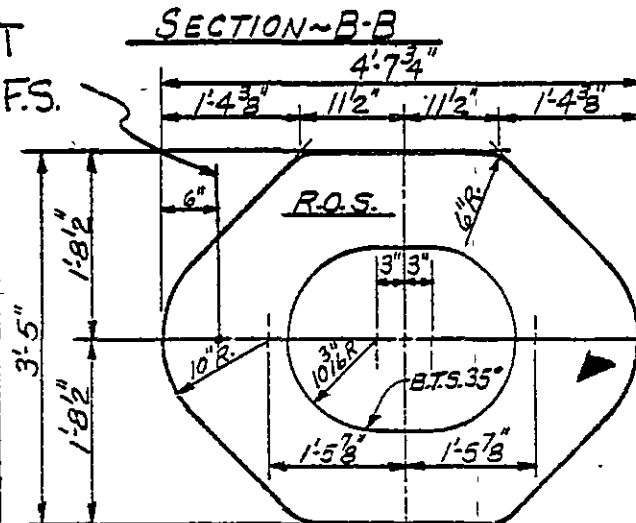
BILL ONE OR THE  
OTHER OR NONE AS REQ'D.

| SHPG. PC. | MARK  | ASSM. PC. | DESCRIPTION                                                  | LENGTH<br>FT. INCH. |
|-----------|-------|-----------|--------------------------------------------------------------|---------------------|
| 1         | B20A  |           | 18" x 24" MANHOLE                                            |                     |
|           | B20Aa | 1         | COVER R. SK. x 15.3" (1/8")<br>(M.F. R. 25" x 2'-7")         |                     |
|           | B20Ab | 1         | R. SK. x 10.2" (1/4") (M.F. R. 44" x 1'-3 1/2")              |                     |
|           | 1A1   | 1         | HANDLE - BAR 5/8" (BENT)                                     | 1 0                 |
|           | B20Ac | 2         | BAR SK. x 1" (SHOP TRIM.<br>RAD. = SEE BILLS)                | 2 11 3/2            |
|           |       |           | (M.F. BAR W. 3/8" x 3'-0 1/4")                               |                     |
|           | B20Ad | 2         | CRAB CLAMPS (F. R. 7 1/2" x 10 1/2" (1/4") x 1'-10 1/2")     |                     |
|           |       | 2         | BOLTS 1" (S. H. D. 5/8") W/ WASHER                           | SEE TABLE           |
|           |       | OR        | STUD BOLTS 1" (1" S. H. D. 5/8") W/ WASHER                   | SEE TABLE           |
|           | B20Ae | 1         | REINF. R. SK. x 7" (F. R. 45 1/4" x 3'-9 1/4")               |                     |
|           |       | 1         | 1/4" C.I. PIPE PLUG                                          |                     |
|           | B20f  |           | 3/8" THICK FLAT RUBBER GASKET<br>M.F. R. 20 1/4" x 2'-2 1/4" |                     |

MEANS SEE TABLE  
GENERAL NOTES

THIS MANHOLE TO BE LIMITED TO A 125 P.S.I.  
WORKING PRESSURE, OR ON TANKS WITH A  
HYDROSTATIC HEAD OF LESS THAN 290'-0".  
\* COVER & CLAMPS FABRICATED BY GREENVILLE ONLY.

| CYL. OR<br>SHELL DIA. | THICKNESS<br>"P" | BAR |         | REINF. R. |         | WELD<br>DET. OF BOLT | LENGTH<br>OF STUD |
|-----------------------|------------------|-----|---------|-----------|---------|----------------------|-------------------|
|                       |                  | W   | MARK    | t         | MARK    |                      |                   |
| 3'-0"                 | .25"             | 7"  | B20Ac-1 | 4"        | B20Ae-1 | "E"                  | 1'-1"             |
| 4'-0" THRU 8'-0"      | .25" TO .53"     | 5"  | B20Ac-2 | 3/8"      | B20Ae-2 | "E"                  | 0'-11"            |
| 6'-0" THRU 10'-0"     | .54" TO .91"     | 5"  | B20Ac-2 | 5/8"      | B20Ae-4 | "E"                  | 0'-11"            |
| 15'-0"<br>&<br>OVER   | 4" TO 40"        | 5"  | B20Ac-2 | —         | —       | "C"                  | 0'-11"            |
|                       | 41" TO .66"      | —   | —       | 4"        | B20Ae-1 | "D"                  | —                 |
|                       | .67" TO .92"     | —   | —       | 1/2"      | B20Ae-3 | "D"                  | —                 |
|                       | .93" TO 1.18"    | —   | —       | 3/4"      | B20Ae-5 | "D"                  | —                 |
|                       | 1.19" TO 1.45"   | —   | —       | 1"        | B20Ae-6 | "D"                  | —                 |
|                       | 1.46" TO 1.71"   | —   | —       | 1 1/4"    | B20Ae-7 | "D"                  | —                 |
|                       | 1.72" TO 1.97"   | —   | —       | 1 1/2"    | B20Ae-8 | "D"                  | —                 |
|                       | 1.98" TO 2.23"   | 5"  | B20Ac-2 | 3/4"      | B20Ae-7 | "D"                  | 0'-11"            |



REINFORCING R. DETAIL-MK. B20Ae

APPROVED

ALVORD, BURDICK & HOWSON

DATE JAN 21 1963

|                                                                                                                                                                                                                                                          |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| CHICAGO BRIDGE & IRON COMPANY<br>GREENVILLE, PA.                                                                                                                                                                                                         |              |
| 18 x 24 PRESSED STEEL MANHOLE                                                                                                                                                                                                                            |              |
| X = DAVIT PER DWG #9                                                                                                                                                                                                                                     |              |
| DRAWN BY JAC DATE 12-23-58                                                                                                                                                                                                                               | STANDARD NO. |
| CHECKED BY CAS DATE 1-19-59                                                                                                                                                                                                                              | B20A-X       |
| APPROD. BY AJB DATE 3-2-62                                                                                                                                                                                                                               |              |
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