

ORIGINAL

Adams Township, MI

Sketch No. _____

BALTIC MINING CO.

STAMP MILL

OFFICE OF SUPERINTENDENT

DRAWING ROOM SKETCH

REDRIDGE, MICH., *June 18,* 1912

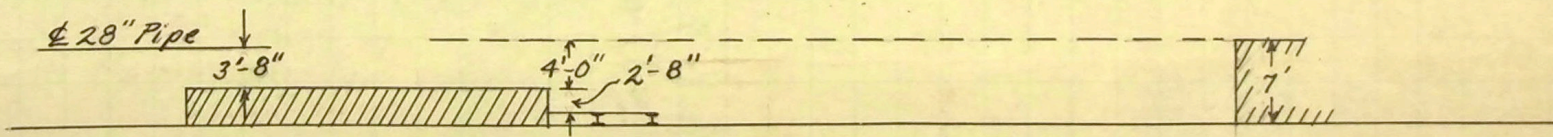
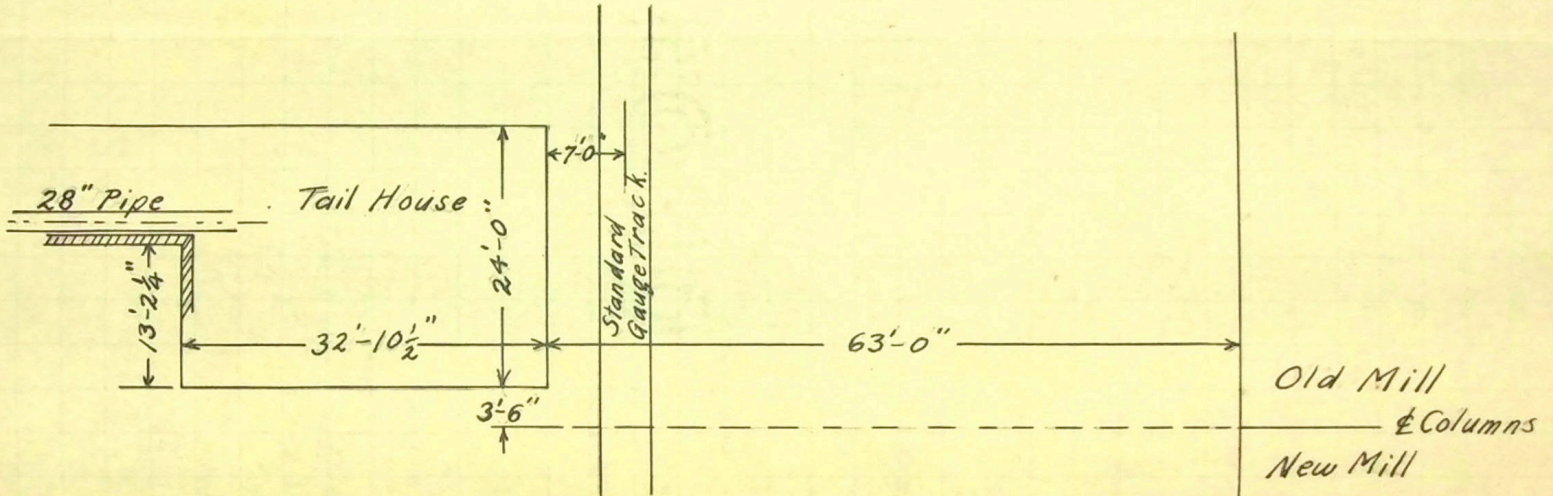
Draughtsman *A.H.S.*

Checked _____

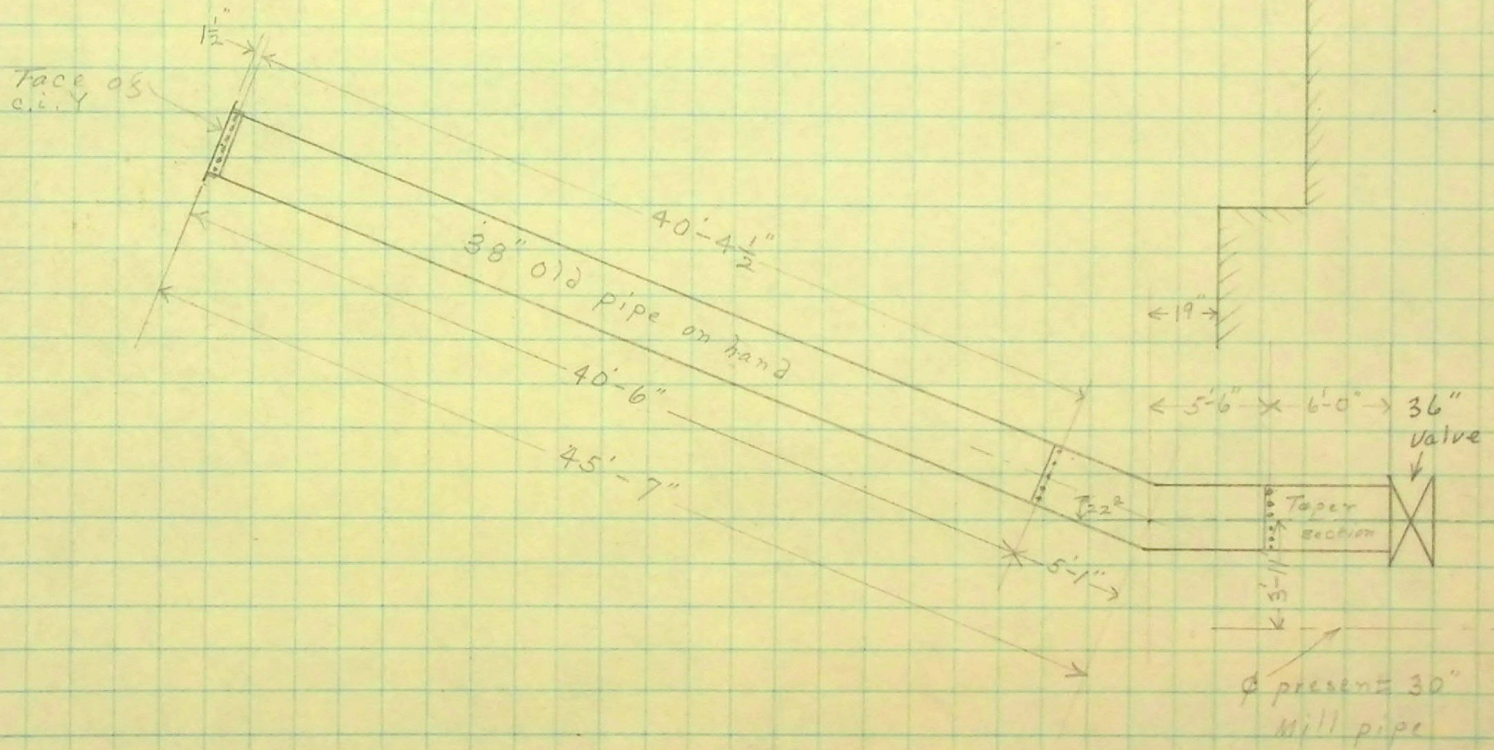
Req. No. _____

F.P. 1628

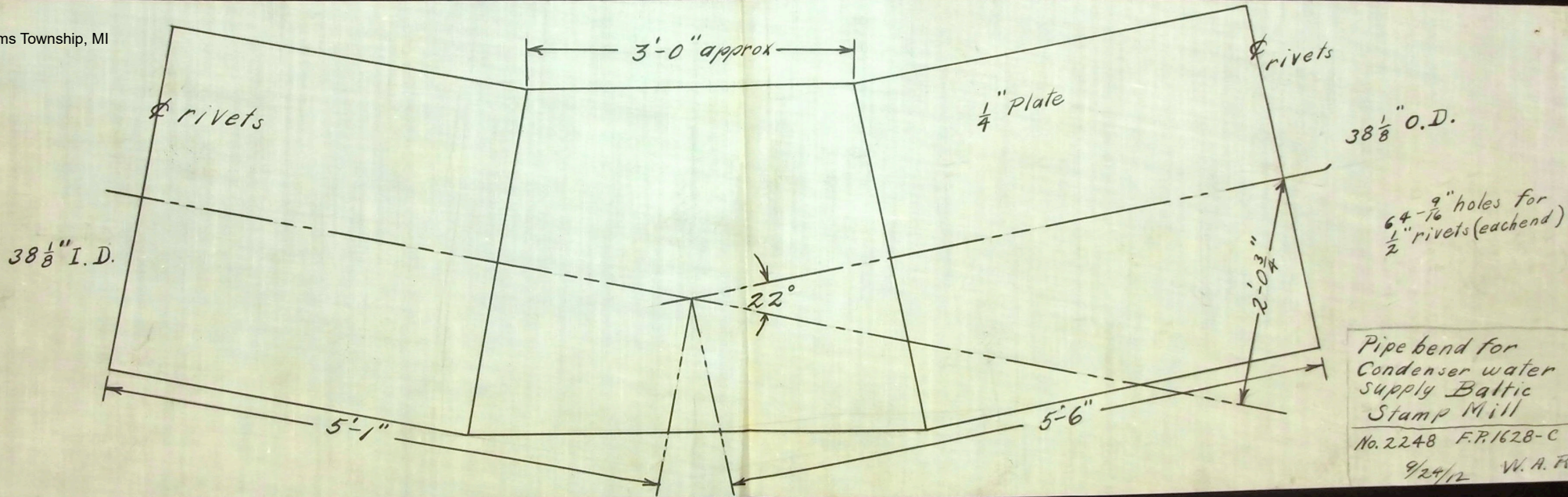
Measurements at Tail House Baltic Mill.



Baltic Stamp Mill
Condenser water supply
9-26-12 F.P. 1628-D

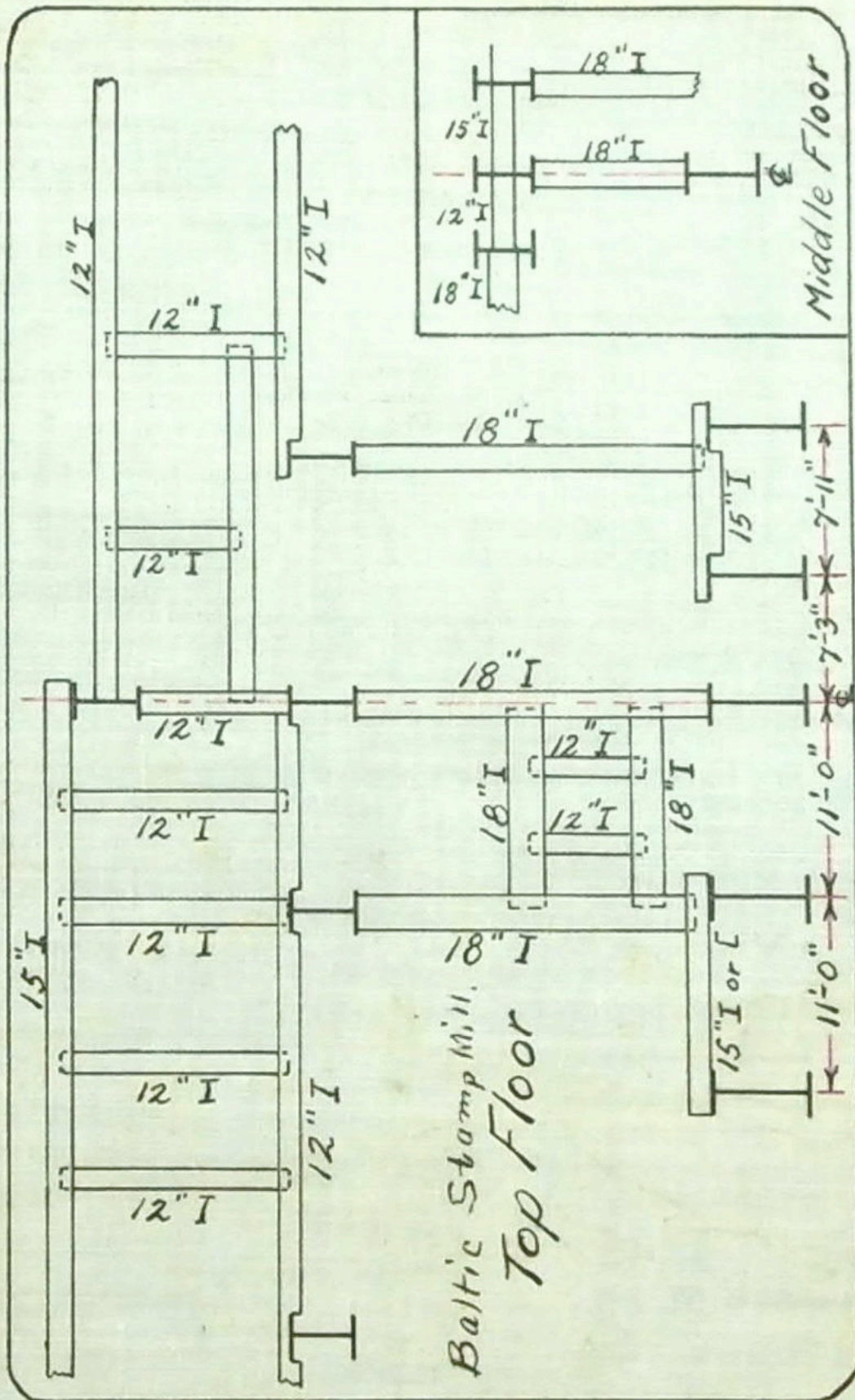


Adams Township, MI



Pipe bend for
Condenser water
Supply Baltic
Stamp Mill
No. 2248 F.P. 1628-C
9/24/12 W.A.P.

Adams Township, MI



No. 2221
No. 2222
F.P. 1628-B.

Flanged Valves (Crane)

| Standard | | Low Press. | | Ex. Heavy | |
|----------|-----------|------------|-----------|-----------|-----------|
| Size | Flg. Face | Size | Flg. Face | Size | Flg. Face |
| 1 1/2 | 6 1/2 | 10 1/2 | 12 1/2 | 11 3/8 | 32 3/8 |
| 2 | 7 1/2 | 11 3/8 | 14 1/2 | 13 3/8 | 36 3/8 |
| 2 1/2 | 7 7/8 | 12 3/8 | 16 | 14 | 41 |
| 3 | 8 1/4 | 14 3/8 | 18 1/4 | 14 3/8 | 44 3/8 |
| 3 1/2 | 8 1/2 | 15 3/8 | 20 1/2 | 15 3/8 | 48 3/8 |
| 4 | 9 1/8 | 16 3/8 | 22 1/8 | 16 3/8 | 52 3/8 |
| 4 1/2 | 9 1/2 | 17 3/8 | 24 1/2 | 17 3/8 | 56 3/8 |
| 5 | 10 1/8 | 19 3/8 | 26 1/8 | 19 3/8 | 61 3/8 |
| 6 | 10 1/2 | 20 3/8 | 28 1/2 | 20 3/8 | 65 3/8 |
| 7 | 11 1/8 | 23 3/8 | 30 1/8 | 21 3/8 | 68 3/8 |
| 8 | 11 1/2 | 26 3/8 | 32 1/2 | 22 3/8 | 74 3/8 |
| 9 | 12 1/8 | 28 3/8 | 34 1/8 | 23 3/8 | 78 3/8 |
| 10 | 13 1/8 | 30 3/8 | 36 1/8 | 24 3/8 | 81 3/8 |
| 12 | 14 3/8 | 34 3/8 | 42 3/8 | 27 3/8 | 94 3/8 |
| 14 | 15 3/8 | 39 3/8 | 48 3/8 | 30 3/8 | 111 3/8 |
| 15 | 15 1/2 | 41 3/8 | | | |
| 16 | 16 1/2 | 42 3/8 | | | |
| 18 | 17 1/2 | 48 3/8 | | | |
| 20 | 18 1/2 | 52 3/8 | | | |
| 22 | 19 1/2 | 55 3/8 | | | |
| 24 | 20 1/2 | 62 3/8 | | | |
| 26 | 23 1/2 | 65 3/8 | | | |
| 28 | 26 1/2 | 70 3/8 | | | |
| 30 | 30 1/2 | 75 3/8 | | | |
| 36 | 36 1/2 | 83 3/8 | | | |

No. 2212
F.P. 1628-A.

Pipe Flanges & Elbows, Crane.

| Standard | | | | | | Low Pressure | | | | | |
|-------------|-------------|-----------|-----------|-------------------------|----------------|--------------|-------------|-----------|-----------|-------------------------|----------------|
| Flange Size | Flange O.D. | Thickness | No. Bolts | Flange Dia. Bolt Circle | Flange Bolt C. | Flange Size | Flange O.D. | Thickness | No. Bolts | Flange Dia. Bolt Circle | Flange Bolt C. |
| 3 1/2 | 14 1/2 | 1 1/4 | 4 | 14 1/2 | 3 3/8 | 12 | 19 1/2 | 1 1/2 | 4 | 19 1/2 | 12 |
| 4 | 15 1/2 | 1 1/2 | 4 | 15 1/2 | 3 3/8 | 14 | 21 1/2 | 1 1/2 | 4 | 21 1/2 | 14 |
| 4 1/2 | 16 1/2 | 1 3/4 | 4 | 16 1/2 | 3 3/8 | 15 | 22 1/2 | 1 3/4 | 4 | 22 1/2 | 16 |
| 5 | 17 1/2 | 1 3/4 | 4 | 17 1/2 | 3 3/8 | 16 | 23 1/2 | 1 3/4 | 4 | 23 1/2 | 16 |
| 5 1/2 | 18 1/2 | 1 3/4 | 4 | 18 1/2 | 3 3/8 | 17 | 24 1/2 | 1 3/4 | 4 | 24 1/2 | 17 |
| 6 | 19 1/2 | 1 3/4 | 4 | 19 1/2 | 3 3/8 | 18 | 25 1/2 | 1 3/4 | 4 | 25 1/2 | 18 |
| 6 1/2 | 20 1/2 | 1 3/4 | 4 | 20 1/2 | 3 3/8 | 19 | 26 1/2 | 1 3/4 | 4 | 26 1/2 | 19 |
| 7 | 21 1/2 | 1 3/4 | 4 | 21 1/2 | 3 3/8 | 20 | 27 1/2 | 1 3/4 | 4 | 27 1/2 | 20 |
| 7 1/2 | 22 1/2 | 1 3/4 | 4 | 22 1/2 | 3 3/8 | 21 | 28 1/2 | 1 3/4 | 4 | 28 1/2 | 21 |
| 8 | 23 1/2 | 1 3/4 | 4 | 23 1/2 | 3 3/8 | 22 | 29 1/2 | 1 3/4 | 4 | 29 1/2 | 22 |
| 8 1/2 | 24 1/2 | 1 3/4 | 4 | 24 1/2 | 3 3/8 | 23 | 30 1/2 | 1 3/4 | 4 | 30 1/2 | 23 |
| 9 | 25 1/2 | 1 3/4 | 4 | 25 1/2 | 3 3/8 | 24 | 31 1/2 | 1 3/4 | 4 | 31 1/2 | 24 |
| 9 1/2 | 26 1/2 | 1 3/4 | 4 | 26 1/2 | 3 3/8 | 25 | 32 1/2 | 1 3/4 | 4 | 32 1/2 | 25 |
| 10 | 27 1/2 | 1 3/4 | 4 | 27 1/2 | 3 3/8 | 26 | 33 1/2 | 1 3/4 | 4 | 33 1/2 | 26 |
| 10 1/2 | 28 1/2 | 1 3/4 | 4 | 28 1/2 | 3 3/8 | 27 | 34 1/2 | 1 3/4 | 4 | 34 1/2 | 27 |
| 11 | 29 1/2 | 1 3/4 | 4 | 29 1/2 | 3 3/8 | 28 | 35 1/2 | 1 3/4 | 4 | 35 1/2 | 28 |
| 11 1/2 | 30 1/2 | 1 3/4 | 4 | 30 1/2 | 3 3/8 | 29 | 36 1/2 | 1 3/4 | 4 | 36 1/2 | 29 |
| 12 | 31 1/2 | 1 3/4 | 4 | 31 1/2 | 3 3/8 | 30 | 37 1/2 | 1 3/4 | 4 | 37 1/2 | 30 |
| 12 1/2 | 32 1/2 | 1 3/4 | 4 | 32 1/2 | 3 3/8 | 31 | 38 1/2 | 1 3/4 | 4 | 38 1/2 | 31 |
| 13 | 33 1/2 | 1 3/4 | 4 | 33 1/2 | 3 3/8 | 32 | 39 1/2 | 1 3/4 | 4 | 39 1/2 | 32 |
| 13 1/2 | 34 1/2 | 1 3/4 | 4 | 34 1/2 | 3 3/8 | 33 | 40 1/2 | 1 3/4 | 4 | 40 1/2 | 33 |
| 14 | 35 1/2 | 1 3/4 | 4 | 35 1/2 | 3 3/8 | 34 | 41 1/2 | 1 3/4 | 4 | 41 1/2 | 34 |
| 14 1/2 | 36 1/2 | 1 3/4 | 4 | 36 1/2 | 3 3/8 | 35 | 42 1/2 | 1 3/4 | 4 | 42 1/2 | 35 |
| 15 | 37 1/2 | 1 3/4 | 4 | 37 1/2 | 3 3/8 | 36 | 43 1/2 | 1 3/4 | 4 | 43 1/2 | 36 |
| 15 1/2 | 38 1/2 | 1 3/4 | 4 | 38 1/2 | 3 3/8 | 37 | 44 1/2 | 1 3/4 | 4 | 44 1/2 | 37 |
| 16 | 39 1/2 | 1 3/4 | 4 | 39 1/2 | 3 3/8 | 38 | 45 1/2 | 1 3/4 | 4 | 45 1/2 | 38 |
| 16 1/2 | 40 1/2 | 1 3/4 | 4 | 40 1/2 | 3 3/8 | 39 | 46 1/2 | 1 3/4 | 4 | 46 1/2 | 39 |
| 17 | 41 1/2 | 1 3/4 | 4 | 41 1/2 | 3 3/8 | 40 | 47 1/2 | 1 3/4 | 4 | 47 1/2 | 40 |
| 17 1/2 | 42 1/2 | 1 3/4 | 4 | 42 1/2 | 3 3/8 | 41 | 48 1/2 | 1 3/4 | 4 | 48 1/2 | 41 |
| 18 | 43 1/2 | 1 3/4 | 4 | 43 1/2 | 3 3/8 | 42 | 49 1/2 | 1 3/4 | 4 | 49 1/2 | 42 |
| 18 1/2 | 44 1/2 | 1 3/4 | 4 | 44 1/2 | 3 3/8 | 43 | 50 1/2 | 1 3/4 | 4 | 50 1/2 | 43 |
| 19 | 45 1/2 | 1 3/4 | 4 | 45 1/2 | 3 3/8 | 44 | 51 1/2 | 1 3/4 | 4 | 51 1/2 | 44 |
| 19 1/2 | 46 1/2 | 1 3/4 | 4 | 46 1/2 | 3 3/8 | 45 | 52 1/2 | 1 3/4 | 4 | 52 1/2 | 45 |
| 20 | 47 1/2 | 1 3/4 | 4 | 47 1/2 | 3 3/8 | 46 | 53 1/2 | 1 3/4 | 4 | 53 1/2 | 46 |
| 20 1/2 | 48 1/2 | 1 3/4 | 4 | 48 1/2 | 3 3/8 | 47 | 54 1/2 | 1 3/4 | 4 | 54 1/2 | 47 |
| 21 | 49 1/2 | 1 3/4 | 4 | 49 1/2 | 3 3/8 | 48 | 55 1/2 | 1 3/4 | 4 | 55 1/2 | 48 |
| 21 1/2 | 50 1/2 | 1 3/4 | 4 | 50 1/2 | 3 3/8 | 49 | 56 1/2 | 1 3/4 | 4 | 56 1/2 | 49 |
| 22 | 51 1/2 | 1 3/4 | 4 | 51 1/2 | 3 3/8 | 50 | 57 1/2 | 1 3/4 | 4 | 57 1/2 | 50 |
| 22 1/2 | 52 1/2 | 1 3/4 | 4 | 52 1/2 | 3 3/8 | 51 | 58 1/2 | 1 3/4 | 4 | 58 1/2 | 51 |
| 23 | 53 1/2 | 1 3/4 | 4 | 53 1/2 | 3 3/8 | 52 | 59 1/2 | 1 3/4 | 4 | 59 1/2 | 52 |
| 23 1/2 | 54 1/2 | 1 3/4 | 4 | 54 1/2 | 3 3/8 | 53 | 60 1/2 | 1 3/4 | 4 | 60 1/2 | 53 |
| 24 | 55 1/2 | 1 3/4 | 4 | 55 1/2 | 3 3/8 | 54 | 61 1/2 | 1 3/4 | 4 | 61 1/2 | 54 |
| 24 1/2 | 56 1/2 | 1 3/4 | 4 | 56 1/2 | 3 3/8 | 55 | 62 1/2 | 1 3/4 | 4 | 62 1/2 | 55 |
| 25 | 57 1/2 | 1 3/4 | 4 | 57 1/2 | 3 3/8 | 56 | 63 1/2 | 1 3/4 | 4 | 63 1/2 | 56 |
| 25 1/2 | 58 1/2 | 1 3/4 | 4 | 58 1/2 | 3 3/8 | 57 | 64 1/2 | 1 3/4 | 4 | 64 1/2 | 57 |
| 26 | 59 1/2 | 1 3/4 | 4 | 59 1/2 | 3 3/8 | 58 | 65 1/2 | 1 3/4 | 4 | 65 1/2 | 58 |
| 26 1/2 | 60 1/2 | 1 3/4 | 4 | 60 1/2 | 3 3/8 | 59 | 66 1/2 | 1 3/4 | 4 | 66 1/2 | 59 |
| 27 | 61 1/2 | 1 3/4 | 4 | 61 1/2 | 3 3/8 | 60 | 67 1/2 | 1 3/4 | 4 | 67 1/2 | 60 |
| 27 1/2 | 62 1/2 | 1 3/4 | 4 | 62 1/2 | 3 3/8 | 61 | 68 1/2 | 1 3/4 | 4 | 68 1/2 | 61 |
| 28 | 63 1/2 | 1 3/4 | 4 | 63 1/2 | 3 3/8 | 62 | 69 1/2 | 1 3/4 | 4 | 69 1/2 | 62 |
| 28 1/2 | 64 1/2 | 1 3/4 | 4 | 64 1/2 | 3 3/8 | 63 | 70 1/2 | 1 3/4 | 4 | 70 1/2 | 63 |
| 29 | 65 1/2 | 1 3/4 | 4 | 65 1/2 | 3 3/8 | 64 | 71 1/2 | 1 3/4 | 4 | 71 1/2 | 64 |
| 29 1/2 | 66 1/2 | 1 3/4 | 4 | 66 1/2 | 3 3/8 | 65 | 72 1/2 | 1 3/4 | 4 | 72 1/2 | 65 |
| 30 | 67 1/2 | 1 3/4 | 4 | 67 1/2 | 3 3/8 | 66 | 73 1/2 | 1 3/4 | 4 | 73 1/2 | 66 |
| 30 1/2 | 68 1/2 | 1 3/4 | 4 | 68 1/2 | 3 3/8 | 67 | 74 1/2 | 1 3/4 | 4 | 74 1/2 | 67 |
| 31 | 69 1/2 | 1 3/4 | 4 | 69 1/2 | 3 3/8 | 68 | 75 1/2 | 1 3/4 | 4 | 75 1/2 | 68 |
| 31 1/2 | 70 1/2 | 1 3/4 | 4 | 70 1/2 | 3 3/8 | 69 | 76 1/2 | 1 3/4 | 4 | 76 1/2 | 69 |
| 32 | 71 1/2 | 1 3/4 | 4 | 71 1/2 | 3 3/8 | 70 | 77 1/2 | 1 3/4 | 4 | 77 1/2 | 70 |
| 32 1/2 | 72 1/2 | 1 3/4 | 4 | 72 1/2 | 3 3/8 | 71 | 78 1/2 | 1 3/4 | 4 | 78 1/2 | 71 |
| 33 | 73 1/2 | 1 3/4 | 4 | 73 1/2 | 3 3/8 | 72 | 79 1/2 | 1 3/4 | 4 | 79 1/2 | 72 |
| 33 1/2 | 74 1/2 | 1 3/4 | 4 | 74 1/2 | 3 3/8 | 73 | 80 1/2 | 1 3/4 | 4 | 80 1/2 | 73 |
| 34 | 75 1/2 | 1 3/4 | 4 | 75 1/2 | 3 3/8 | 74 | 81 1/2 | 1 3/4 | 4 | 81 1/2 | 74 |
| 34 1/2 | 76 1/2 | 1 3/4 | 4 | 76 1/2 | 3 3/8 | 75 | 82 1/2 | 1 3/4 | 4 | 82 1/2 | 75 |
| 35 | 77 1/2 | 1 3/4 | 4 | 77 1/2 | 3 3/8 | 76 | 83 1/2 | 1 3/4 | 4 | 83 1/2 | 76 |
| 35 1/2 | 78 1/2 | 1 3/4 | 4 | 78 1/2 | 3 3/8 | 77 | 84 1/2 | 1 3/4 | 4 | 84 1/2 | 77 |
| 36 | 79 1/2 | 1 3/4 | 4 | 79 1/2 | 3 3/8 | 78 | 85 1/2 | 1 3/4 | 4 | 85 1/2 | 78 |
| 36 1/2 | 80 1/2 | 1 3/4 | 4 | 80 1/2 | 3 3/8 | 79 | 86 1/2 | 1 3/4 | 4 | 86 1/2 | 79 |
| 37 | 81 1/2 | 1 3/4 | 4 | 81 1/2 | 3 3/8 | 80 | 87 1/2 | 1 3/4 | 4 | 87 1/2 | 80 |
| 37 1/2 | 82 1/2 | 1 3/4 | 4 | 82 1/2 | 3 3/8 | 81 | 88 1/2 | 1 3/4 | 4 | 88 1/2 | 81 |
| 38 | 83 1/2 | 1 3/4 | 4 | 83 1/2 | 3 3/8 | 82 | 89 1/2 | 1 3/4 | 4 | 89 1/2 | 82 |
| 38 1/2 | 84 1/2 | 1 3/4 | 4 | 84 1/2 | 3 3/8 | 83 | 90 1/2 | 1 3/4 | 4 | 90 1/2 | 83 |
| 39 | 85 1/2 | 1 3/4 | 4 | 85 1/2 | 3 3/8 | 84 | 91 1/2 | 1 3/4 | 4 | 91 1/2 | 84 |
| 39 1/2 | 86 1/2 | 1 3/4 | 4 | 86 1/2 | 3 3/8 | 85 | 92 1/2 | 1 3/4 | 4 | 92 1/2 | 85 |
| 40 | 87 1/2 | 1 3/4 | 4 | 87 1/2 | 3 3/8 | 86 | 93 1/2 | 1 3/4 | 4 | 93 1/2 | 86 |
| 40 1/2 | 88 1/2 | 1 3/4 | 4 | 88 1/2 | 3 3/8 | 87 | 94 1/2 | 1 3/4 | 4 | 94 1/2 | 87 |
| 41 | 89 1/2 | 1 3/4 | 4 | 89 1/2 | 3 3/8 | 88 | 95 1/2 | 1 3/4 | 4 | 95 1/2 | 88 |
| 41 1/2 | 90 1/2 | 1 3/4 | 4 | 90 1/2 | 3 3/8 | 89 | 96 1/2 | 1 3/4 | 4 | 96 1/2 | 89 |
| 42 | 91 1/2 | 1 3/4 | 4 | 91 1/2 | 3 3/8 | 90 | 97 1/2 | 1 3/4 | 4 | 97 1/2 | 90 |
| 42 1/2 | 92 1/2 | 1 3/4 | 4 | 92 1/2 | 3 3/8 | 91 | 98 1/2 | 1 3/4 | 4 | 98 1/2 | 91 |
| 43 | 93 1/2 | 1 3/4 | 4 | 93 1/2 | 3 3/8 | 92 | 99 1/2 | 1 3/4 | 4 | 99 1/2 | 92 |
| 43 1/2 | 94 1/2 | 1 3/4 | 4 | 94 1/2 | 3 3/8 | 93 | 100 1/2 | 1 3/4 | 4 | 100 1/2 | 93 |
| 44 | 95 1/2 | 1 3/4 | 4 | 95 1/2 | 3 3/8 | 94 | 101 1/2 | 1 3/4 | 4 | 101 1/2 | 94 |
| 44 1/2 | 96 1/2 | 1 3/4 | 4 | 96 1/2 | 3 3/8 | 95 | 102 1/2 | 1 3/4 | 4 | 102 1/2 | 95 |
| 45 | 97 1/2 | 1 3/4 | 4 | 97 1/2 | 3 3/8 | 96 | 103 1/2 | 1 3/4 | 4 | 103 1/2 | 96 |
| 45 1/2 | 98 1/2 | 1 3/4 | 4 | 98 1/2 | 3 3/8 | 97 | 104 1/2 | 1 3/4 | 4 | 104 1/2 | 97 |
| 46 | 99 1/2 | 1 3/4 | 4 | 99 1/2 | 3 3/8 | 98 | 105 1/2 | 1 3/4 | 4 | 105 1/2 | 98 |
| 46 1/2 | 100 1/2 | 1 3/4 | 4 | 100 1/2 | 3 3/8 | 99 | | | | | |
| 47 | 101 1/2 | 1 3/4 | 4 | 101 1/2 | 3 3/8 | 100 | | | | | |
| 47 1/2 | 102 1/2 | 1 3/4 | 4 | 102 1/2 | 3 3/8 | 101 | | | | | |
| 48 | 103 1/2 | 1 3/4 | 4 | 103 1/2 | 3 3/8 | 102 | | | | | |
| 48 1/2 | 104 1/2 | 1 3/4 | 4 | 104 1/2 | 3 3/8 | 103 | | | | | |
| 49 | 105 1/2 | 1 3/4 | 4 | 105 1/2 | 3 3/8 | 104 | | | | | |
| 49 1/2 | 106 1/2 | 1 3/4 | 4 | 106 1/2 | 3 3/8 | 105 | | | | | |