

# ERECTORS LOCATION LIST FOR HIGH STRENGTH BOLTS

| LINE | NO. BOLTS | CONNECTING    | GRIPS     | TOTAL GRIP | BOLT DIA. | BOLT LENGTH | LINE | NO. BOLTS | CONNECTING | GRIPS     | TOTAL GRIP | BOLT DIA. | BOLT LENGTH |
|------|-----------|---------------|-----------|------------|-----------|-------------|------|-----------|------------|-----------|------------|-----------|-------------|
| 1    | 26        | T3 To G1      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 76   | 6         | S5 To T1   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 2    | 8         | S1 To G1      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 77   | 48        | S16 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 3    | 8         | S3 To G1      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 78   | 24        | S15 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 4    | 4         | D31 To G1     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 79   | 12        | S14 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 5    | 4         | D32 To G1     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 80   | 6         | D13 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 6    | 8         | D32 To G1     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 81   | 3         | D6 To T1   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 7    | 26        | T4 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 82   | 3         | D7 To T1   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 8    | 26        | T2 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 83   | 6         | D3 To T1   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 9    | 8         | S1 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 84   | 12        | D7 To T1   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 10   | 8         | S2 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 85   | 1         | D10 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 11   | 3         | S5 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 86   | 18        | D11 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 12   | 8         | S4 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 87   | 6         | D12 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 13   | 8         | S5 To G2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 88   | 6         | D34 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 14   | 4         | D49 To G2     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 89   | 32        | S17 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 15   | 4         | D30 To G2     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 90   | 6         | D19 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 16   | 8         | D32 To G2     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 91   | 12        | D20 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 17   | 52        | T1 To G3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 92   | 6         | D21 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 18   | 8         | S2 To G3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 93   | 24        | S16 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 19   | 8         | S4 To G3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 94   | 6         | S14 To T1  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 20   | 8         | S5 To G3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 95   | 3         | S5 To T2   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 21   | 4         | D28 To G3     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 96   | 24        | S16 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 22   | 44        | T1 To G4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 97   | 12        | S15 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 23   | 8         | T1 To G4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 98   | 6         | S14 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 24   | 8         | R2-R4 To G4   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 99   | 12        | S10 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 25   | 8         | R2-R3 To G4   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 100  | 12        | S11 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 26   | 12        | S17 To G4     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 101  | 3         | D4 To T2   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 27   | 6         | D22 To G4     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 102  | 3         | D6 To T2   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 28   | 6         | D24 To G4     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 103  | 6         | D8 To T2   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 29   | 6         | R2 To G4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 104  | 6         | D1 To T2   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 30   | 6         | S19 To G4     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 105  | 9         | D11 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 31   | 16        | T3 To G5      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 106  | 3         | D15 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 32   | 10        | T3 To G5      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 107  | 3         | D24 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 33   | 8         | R1-R1 To G5   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 108  | 3         | D16 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 34   | 6         | R1 To G5      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 109  | 3         | D17 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 35   | 6         | S18-S18 To G5 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 110  | 12        | S16 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 36   | 6         | S18 To G5     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 111  | 3         | S14 To T2  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 37   | 6         | D25 To G5     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 112  | 12        | S10 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 38   | 6         | D27 To G5     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 113  | 24        | S11 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 39   | 10        | T2 To G6      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 114  | 24        | S12 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 40   | 16        | T2 To G6      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 115  | 6         | S13 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 41   | 10        | T4 To G6      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 116  | 3         | D18 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 42   | 16        | T4 To G6      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 117  | 3         | D16 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 43   | 16        | R1-R2 To G6   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 118  | 3         | D18 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 44   | 6         | R1 To G6      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 119  | 3         | D35 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 45   | 6         | R2 To G6      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 120  | 12        | S12 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 46   | 4         | S18-S19 To G6 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 121  | 3         | S13 To T3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 47   | 6         | S18 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 122  | 3         | S5 To T4   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 48   | 6         | S19 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 123  | 24        | S12 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 49   | 6         | D26 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 124  | 12        | S11 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 50   | 6         | D25 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 125  | 6         | S13 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 51   | 6         | D24 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 126  | 6         | S14 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 52   | 6         | D23 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 127  | 12        | S15 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 53   | 8         | S18 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 128  | 24        | S16 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 54   | 8         | S19 To G6     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 129  | 3         | D18 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 55   | 16        | S25-S25 To G7 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 130  | 3         | D25 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 56   | 8         | S23-S25 To G7 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 131  | 3         | D7 To T4   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 57   | 8         | S23-S24 To G7 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 132  | 6         | D9 To T4   | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 58   | 8         | S24-S25 To G7 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 133  | 6         | D10 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 59   | 8         | S25-S26 To G7 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 134  | 9         | D11 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 60   | 8         | S25 To G8     | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 135  | 3         | D34 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 61   | 48        | S6 To T1      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 136  | 3         | D13 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 62   | 40        | S3 To T1      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 137  | 3         | D14 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 63   | 30        | S3 To T1      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 138  | 12        | S12 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 64   | 24        | S6 To T2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 139  | 3         | S13 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 65   | 15        | S8 To T2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 140  | 12        | S15 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 66   | 24        | S7 To T2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 141  | 3         | S14 To T4  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 67   | 20        | S5 To T2      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 142  | 15        | S17 To S23 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 68   | 24        | S7 To T3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 143  | 16        | S17 To S24 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 69   | 40        | S7 To T3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 144  | 6         | D19 To S23 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 70   | 15        | S7 To T3      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 145  | 6         | D19 To S23 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 71   | 20        | S7 To T4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 146  | 6         | D20 To S24 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 72   | 15        | S7 To T4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 147  | 6         | D21 To S24 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 73   | 14        | S6 To T4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 148  | 6         | S21 To S26 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 74   | 20        | S3 To T4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 149  | 16        | D19 To S21 | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |
| 75   | 15        | S3 To T4      | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       | 150  | 4         | S26 To R3  | 1/2 x 3/4 | 1 1/2      | 1/2       | 2 1/2       |

## ERECTORS LOCATION LIST FOR MACHINE BOLTS

| LINE | NO. BOLTS | CONNECTING | GRIPS     | TOTAL GRIP | BOLT DIA. | BOLT LENGTH |
|------|-----------|------------|-----------|------------|-----------|-------------|
| 1    | 2         | S20 To C1  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |
| 2    | 4         | S21 To C2  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |
| 3    | 4         | S22 To C3  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |
| 4    | 8         | PNI To R5  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |
| 5    | 4         | PNI To R5  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |
| 6    | 4         | PNI To R6  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |
| 7    | 8         | PNI To R7  | 1/2 x 1/2 | 1          | 1/2       | 2 1/2       |

## REQUIRED LIST FOR HIGH STRENGTH BOLTS

| LINE | NO. BOLTS TO FURNISH | NO. BOLTS TO PLACE | SIZE | DIA. | TYPE | HEAD | LENGTH | NOTES |
|------|----------------------|--------------------|------|------|------|------|--------|-------|
| 1    | 20                   | 15                 | 5/8  | 1/2  | HEX  | HEX  | 12     |       |
| 2    | 1680                 | 1631               | 49   |      |      |      |        |       |
| 3    | 445                  | 430                | 5    |      |      |      |        |       |
| 4    | 155                  | 118                | 7    |      |      |      |        |       |
| 5    | 25                   | 20                 | 5    |      |      |      |        |       |
| 6    |                      |                    |      |      |      |      |        |       |
| 7    |                      |                    |      |      |      |      |        |       |
| 8    |                      |                    |      |      |      |      |        |       |
| 9    |                      |                    |      |      |      |      |        |       |
| 10   |                      |                    |      |      |      |      |        |       |

## REQUIRED LIST FOR MACHINE BOLTS

| LINE | NO. BOLTS TO FURNISH | NO. BOLTS TO PLACE                         | SIZE | DIA. | TYPE | HEAD | LENGTH | NOTES |
|------|----------------------|--------------------------------------------|------|------|------|------|--------|-------|
| 1    | 15                   | 10                                         | 5/8  | 1/2  | HEX  | HEX  | 12     |       |
| 2    | 30                   | 24                                         | 6    | 1/2  | HEX  | HEX  | 12     |       |
| 3    |                      |                                            |      |      |      |      |        |       |
| 4    |                      |                                            |      |      |      |      |        |       |
| 5    | 15                   | WASHERS FOR 2" BOLTS (2" x 4" x 1/8" HOLE) |      |      |      |      |        |       |

SEE SKETCH BELOW  
FURNISH 2" CARBURIZED FLAT  
WASHER PER BOLT

## INDEX TO SHEET 17 MARKS

| GENERAL MARK | SECTION | NAME OF MEMBER | SHEET LETTER | GENERAL MARK | SECTION | NAME OF MEMBER | SHEET LETTER |
|--------------|---------|----------------|--------------|--------------|---------|----------------|--------------|
| 1            | 1       | 1              | 1            | 1            | 1       | 1              | 1            |
| 2            | 2       | 2              | 2            | 2            | 2       | 2              | 2            |
| 3            | 3       | 3              | 3            | 3            | 3       | 3              | 3            |
| 4            | 4       | 4              | 4            | 4            | 4       | 4              | 4            |
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