



Looking down Positive X (Longitudinal) Axis  
 Scale: 1 in = 15 feet (1:180)

| POLE SPECIFICATIONS                    |                |                   |                |                        |                  |                  |             |             |
|--|----------------|-------------------|----------------|------------------------|------------------|------------------|-------------|-------------|
| A 116.50 foot long pole with 12 flats. |                |                   |                |                        |                  |                  |             |             |
| Tip Dia. = 20.000 in.                  |                |                   |                | Base Dia. = 55.160 in. |                  |                  |             |             |
| TUBE SPECIFICATIONS                    |                |                   |                |                        |                  |                  |             |             |
| Tube Num.                              | Length (ft)    | Top Dia (in)      | Bot Dia (in)   | Thick (in)             | Lap (ft)         | Black Wt. (lb)   | Yield (ksi) |             |
| 1                                      | 20.50          | 20.00             | 26.25          | 0.1875                 | 0.00             | 965              | 65          |             |
| 2                                      | 51.00          | 26.50             | 42.06          | 0.3125                 | 5.25             | 5923             | 65          |             |
| 3                                      | 50.25          | 39.83             | 55.16          | 0.4375                 | 0.00             | 11319            | 65          |             |
| DAVIT ARM SPECIFICATIONS               |                |                   |                |                        |                  |                  |             |             |
| Arm Num.                               | From (ft)      | Top Azimuth (deg) | Arm Shape      | Length (ft)            | Base Dia (in)    | Tip Dia (in)     | Thick (in)  | Yield (ksi) |
| 1                                      | 22.00          | 0                 | 81             | 4.53                   | 6.00             | 6.00             | 0.1875      | 65          |
| 2                                      | 22.00          | 180               | 81             | 4.53                   | 6.00             | 6.00             | 0.1875      | 65          |
| 3                                      | 29.66          | 0                 | 81             | 9.57                   | 11.00            | 7.00             | 0.3125      | 65          |
| 4                                      | 29.66          | 180               | 81             | 9.57                   | 11.00            | 7.00             | 0.3125      | 65          |
| 5                                      | 42.16          | 0                 | 81             | 9.57                   | 11.00            | 7.00             | 0.3125      | 65          |
| 6                                      | 42.16          | 180               | 81             | 9.57                   | 11.00            | 7.00             | 0.3125      | 65          |
| 7                                      | 54.66          | 0                 | 81             | 9.57                   | 11.00            | 7.00             | 0.3125      | 65          |
| 8                                      | 54.66          | 180               | 81             | 9.57                   | 11.00            | 7.00             | 0.3125      | 65          |
| POLE GROUNDLINE REACTIONS BY LOAD CASE |                |                   |                |                        |                  |                  |             |             |
| Load Case                              | X Force (kips) | Y Force (kips)    | Z Force (kips) | X-X Mom (kip-ft)       | Y-Y Mom (kip-ft) | Z-Z Mom (kip-ft) |             |             |
| NESC HEAVY                             | 0.00           | 23.89             | -79.78         | 1935.6                 | 0.0              | 0.0              |             |             |
| NU HEAVY ICE                           | 0.00           | 4.59              | -82.58         | 371.8                  | 0.0              | 0.0              |             |             |
| ASCE ICE/W..                           | 0.00           | 18.91             | -70.18         | 1534.9                 | 0.0              | 0.0              |             |             |
| EX WIND                                | 0.00           | 52.31             | -43.12         | 4082.3                 | 0.0              | 0.0              |             |             |
| UNBALANCED..                           | -33.90         | 19.09             | -69.67         | 1543.8                 | -2754.4          | 0.9              |             |             |
| DEFLECTION                             | 0.00           | 1.52              | -38.82         | 119.5                  | 0.0              | 0.0              |             |             |
| CONSTRUCTION                           | -5.64          | 7.73              | -92.54         | 620.4                  | -453.4           | 0.1              |             |             |
| EIA                                    | 0.00           | 53.26             | -40.75         | 4177.4                 | 0.0              | 0.0              |             |             |
| BROKEN SW                              | -5.57          | 19.81             | -69.71         | 1600.3                 | -548.4           | -31.1            |             |             |
| BROKEN COND                            | -14.53         | 19.59             | -69.70         | 1586.4                 | -1133.8          | 157.9            |             |             |
| NESC HEAVY..                           | 0.00           | 15.11             | -60.06         | 1417.7                 | 0.0              | 0.0              |             |             |
| NU HEAVY I..                           | 0.00           | 2.30              | -58.80         | 439.9                  | 0.0              | 0.0              |             |             |
| ASCE ICE/W..                           | 0.00           | 11.74             | -51.56         | 1138.5                 | 0.0              | 0.0              |             |             |
| EX WIND 1 ..                           | 0.00           | 38.31             | -34.81         | 3040.3                 | 0.0              | 0.0              |             |             |
| EIA 1 SIDE                             | 0.00           | 39.26             | -32.44         | 3135.7                 | 0.0              | 0.0              |             |             |



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Customer:

Test Customer

Drawn By:

RPK

Checked By:

KPR

Job No.

J2010-187

Drawing No.

D-101