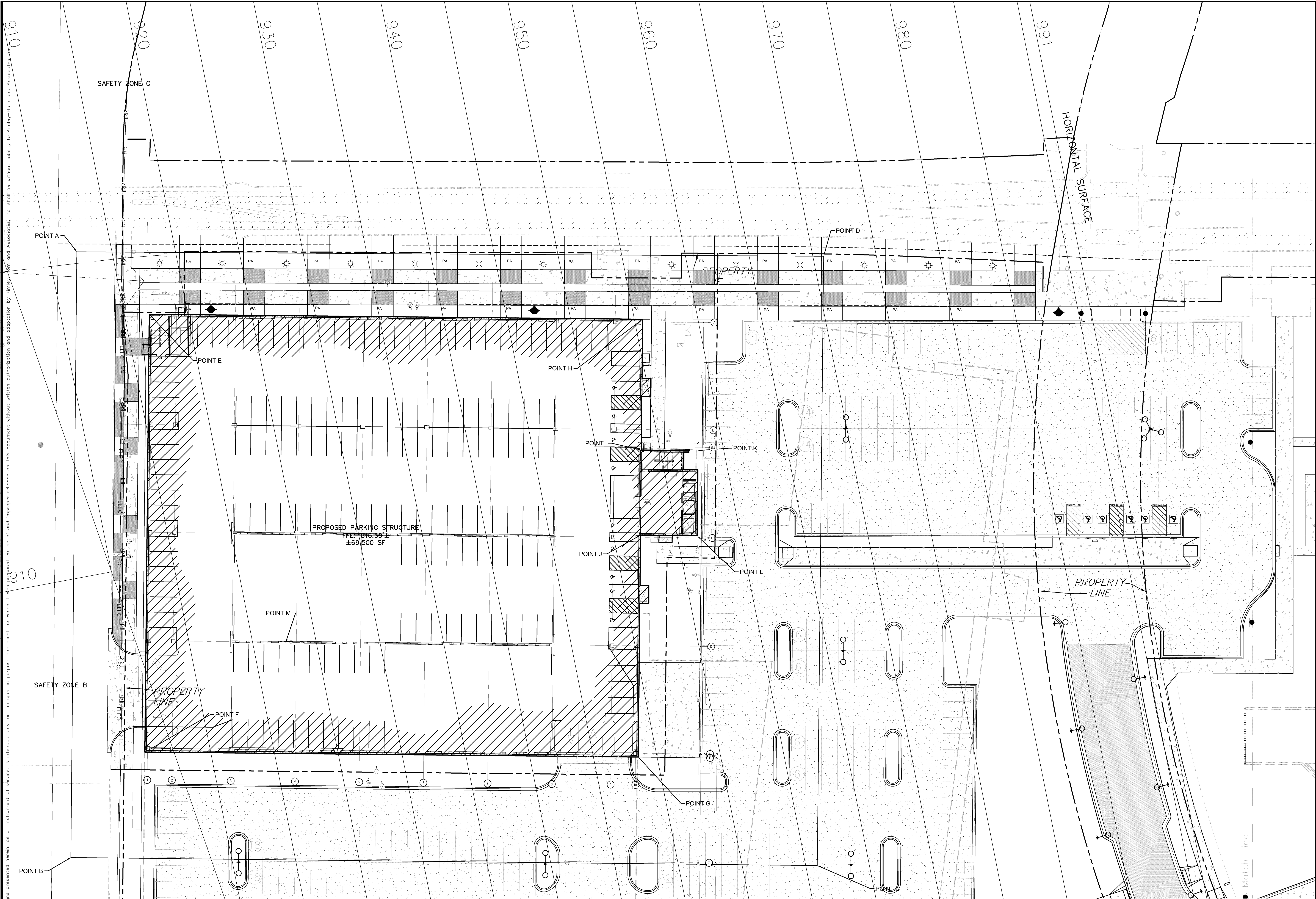
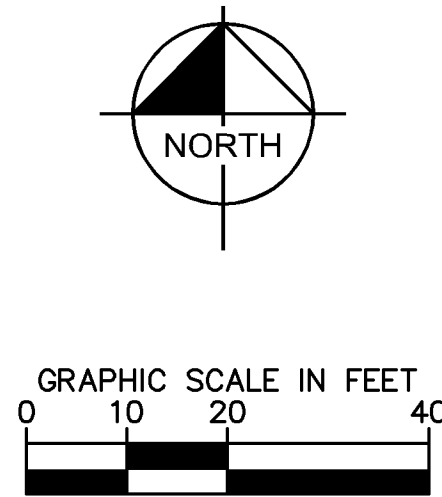


K:\TWC\_DEV\MCGOUGH\BCS\DWG\PLAN SHEETS\HEALTH PARTNERS EXPANSION\C10.1 FAA.dwg November 27, 2016 - 8:19pm



| POINT | DESCRIPTION         | GEODETIC POSITION (NAD 83, MINNESOTA, SOUTH ZONE) |                | MINNESOTA SOUTH STATE PLANE COORDINATES |            | GROUND ELEVATION (feet) | OBJECT HEIGHT (feet) | CONSTRUCTION OBJECT ELEVATION (feet) | OFFSET FROM RUNWAY 35-17 CENTERLINE (feet) |
|-------|---------------------|---------------------------------------------------|----------------|-----------------------------------------|------------|-------------------------|----------------------|--------------------------------------|--------------------------------------------|
|       |                     | LATITUDE (ddmmss.ss)                              | LONGITUDE      | NORTHING                                | EASTING    |                         |                      |                                      |                                            |
| A     | Work Zone (Crane)   | N44° 51'22.77"                                    | W93° 13'47.33" | 1005731.91                              | 2824383.53 | 817.0                   | 113.0                | 930.0                                | 1090.84                                    |
| B     | Work Zone (Crane)   | N44° 51'19.42"                                    | W93° 13'47.39" | 1005392.46                              | 2824382.58 | 817.0                   | 113.0                | 930.0                                | 1024.53                                    |
| C     | Work Zone (Crane)   | N44° 51'19.37"                                    | W93° 13'41.58" | 1005391.30                              | 2824800.63 | 814.0                   | 158.0                | 972.0                                | 1433.74                                    |
| D     | Work Zone (Crane)   | N44° 51'22.72"                                    | W93° 13'41.52" | 1005730.74                              | 2824801.83 | 817.0                   | 169.0                | 986.0                                | 1500.08                                    |
| E     | Parking Ramp Corner | N44° 51'22.42"                                    | W93° 13'46.77" | 1005698.85                              | 2824424.23 | 816.5                   | 69.5                 | 886.0                                | 1121.53                                    |
| F     | Parking Ramp Corner | N44° 51'20.00"                                    | W93° 13'46.81" | 1005451.75                              | 2824423.66 | 816.5                   | 69.5                 | 886.0                                | 1074.17                                    |
| G     | Parking Ramp Corner | N44° 51'19.97"                                    | W93° 13'42.97" | 1005451.32                              | 2824700.28 | 816.5                   | 69.5                 | 886.0                                | 1347.23                                    |
| H     | Parking Ramp Corner | N44° 51'22.39"                                    | W93° 13'42.99" | 1005696.41                              | 2824700.85 | 816.5                   | 69.5                 | 886.0                                | 1370.77                                    |
| I     | Elevator Corner     | N44° 51'21.67"                                    | W93° 13'42.94" | 1005623.49                              | 2824700.82 | 816.5                   | 83.5                 | 900.0                                | 1379.96                                    |
| J     | Elevator Corner     | N44° 51'21.20"                                    | W93° 13'42.95" | 1005575.89                              | 2824700.55 | 816.5                   | 83.5                 | 900.0                                | 1394.59                                    |
| K     | Elevator Corner     | N44° 51'21.66"                                    | W93° 13'42.50" | 1005622.78                              | 2824732.52 | 816.5                   | 83.5                 | 900.0                                | 1410.09                                    |
| L     | Elevator Corner     | N44° 51'21.19"                                    | W93° 13'42.51" | 1005575.18                              | 2824732.25 | 816.5                   | 83.5                 | 900.0                                | 1400.94                                    |
| M     | Light Pole          | N44° 51'20.61"                                    | W93° 13'45.71" | 1005514.27                              | 2824502.31 | 816.5                   | 94.5                 | 911.0                                | 1163.80                                    |



BCS/HP PARKING  
RAMP AND 8170  
IMPROVEMENTS



B | W | B | R

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Consultants

Kimley»Horn

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Name: *Thomas J. Gend*  
Date: 10/28/2016 Reg. No. 21433

Issued For

|                |            |
|----------------|------------|
| Item           | Date       |
| CD PREPARE SET | 08/26/2016 |
| CD REVIEW SET  | 09/27/2016 |
| CD ISSUE       | 10/28/2016 |
| AD1            |            |

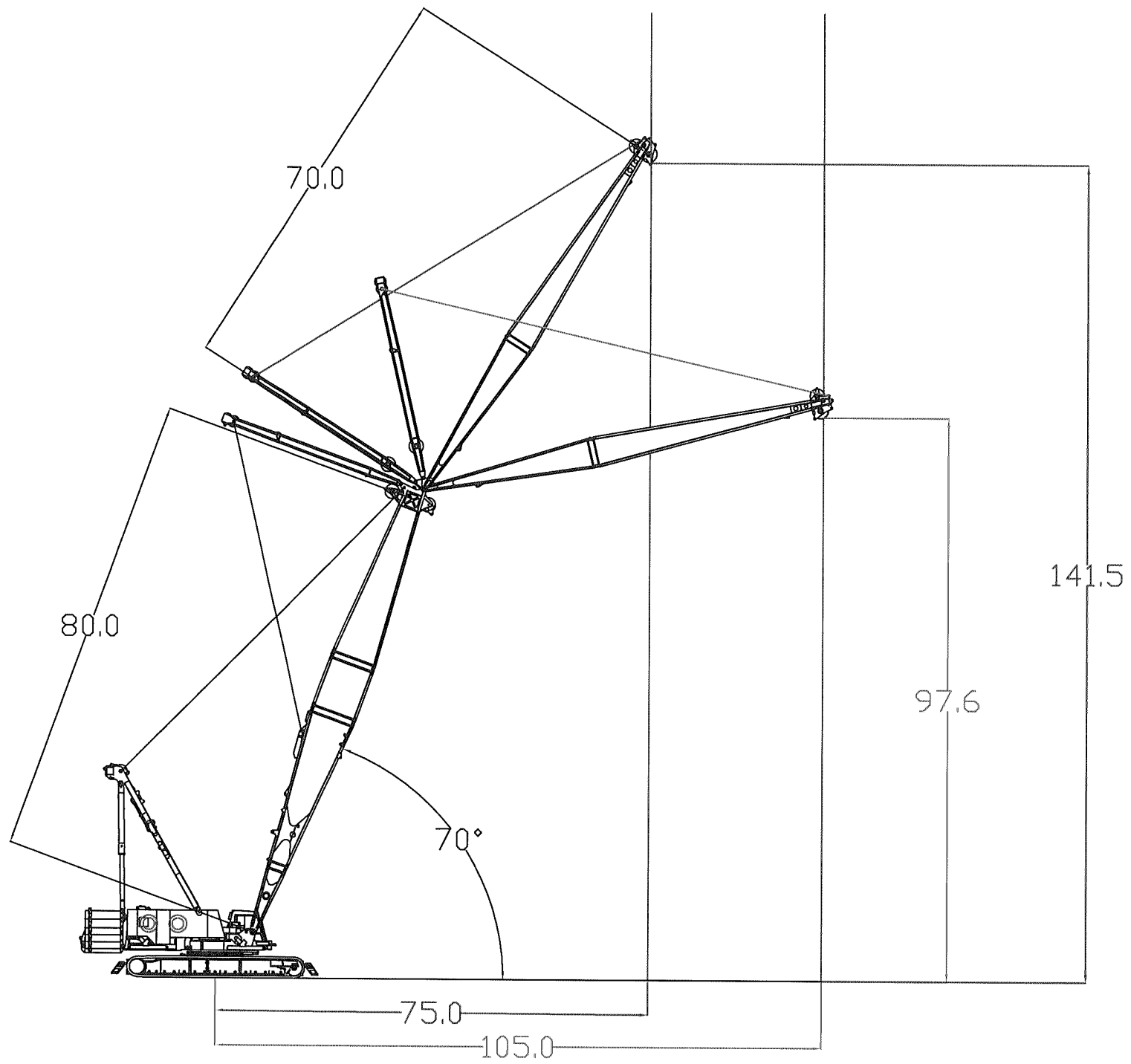
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The bar above is 1" long on a Full Size Sheet.  
Drawing Scales apply to Full Size Sheets.

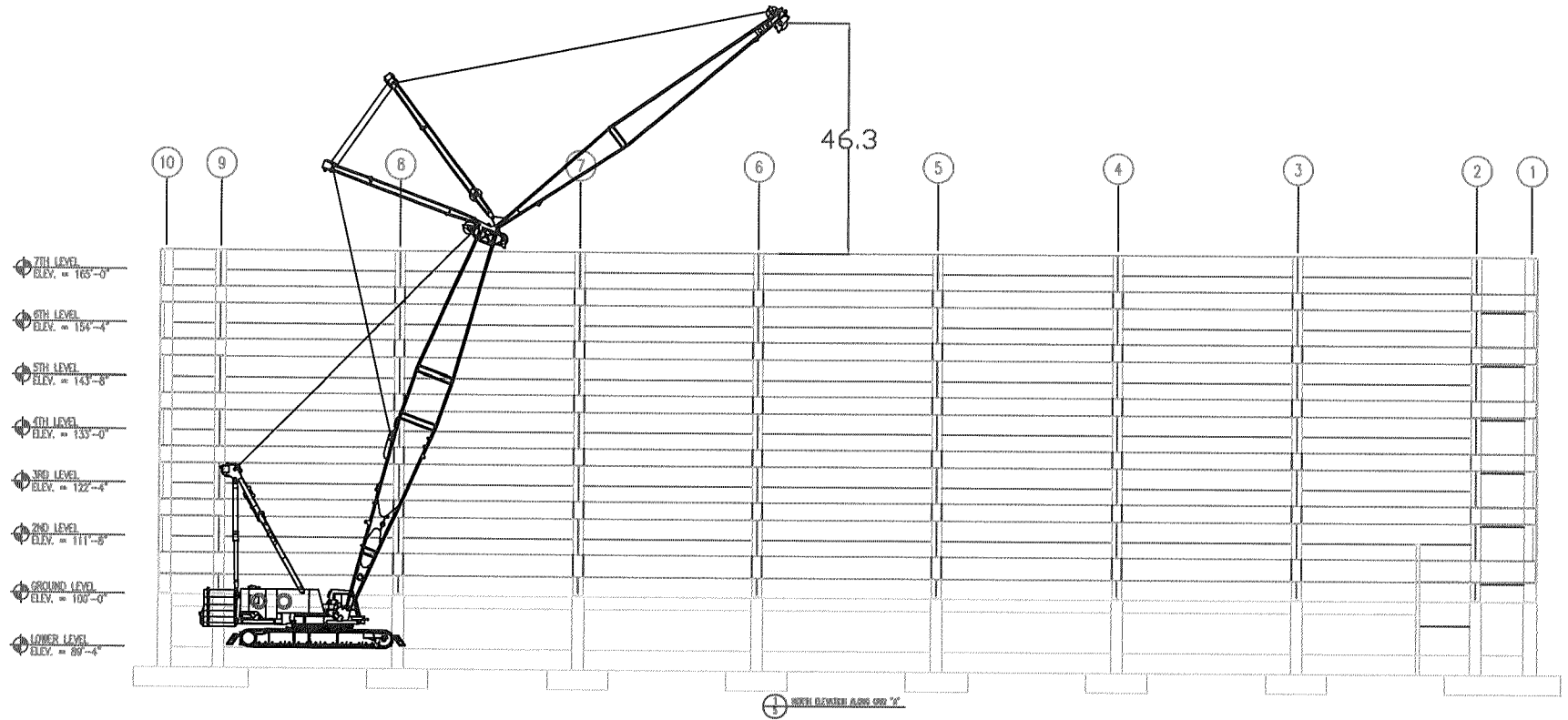
Comm. No. 3.2016178.00 Drawn NUL

Sheet Title  
FDP AIRPORT ZONING  
PERMIT PLAN

Sheet No.

2.200 - C10.1







# Liftcrane Luffing Jib Capacities

Luffing Jib No. 133 or No. 133A On Boom No. 44 With Heavy Lift Top  
249,200 Lb. Crane Counterweight  
120,000 Lb. Carbody Counterweight  
360 Degree Rating

Designed And Tested  
With The Intent To Be In  
The Scope of ANSI B30.5

## 2250 SERIES 3

### 80 Ft. Boom, 70 Ft. Jib

| Jib<br>Oper.<br>Rad.<br>Feet | 88 Degree<br>Boom Angle |                               |                                   | 83 Degree<br>Boom Angle |                               |                                   | 80 Degree<br>Boom Angle |                               |                                   | 75 Degree<br>Boom Angle |                               |                                   | 70 Degree<br>Boom Angle |                               |                                   | 65 Degree<br>Boom Angle |                               |                                   | 60 Degree<br>Boom Angle |                               |                                   | Jib<br>Oper.<br>Rad.<br>Feet |
|------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|-------------------------|-------------------------------|-----------------------------------|------------------------------|
|                              | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds | Jib<br>Ang.<br>Deg.     | Jib<br>Point<br>Elev.<br>Feet | Luffing Jib<br>Capacity<br>Pounds |                              |
| 32                           | 73.3                    | 156.9                         | 210,000 *c                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 32                           |
| 34                           | 71.6                    | 156.2                         | 201,500 *c                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 34                           |
| 36                           | 69.9                    | 155.4                         | 192,000 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 36                           |
| 38                           | 68.1                    | 154.6                         | 183,300 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 38                           |
| 40                           | 66.3                    | 153.7                         | 175,300 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 40                           |
| 45                           | 61.7                    | 151.2                         | 156,100 *b                        | 68.2                    | 154.0                         | 182,700 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 45                           |
| 50                           | 56.9                    | 148.1                         | 134,400 *b                        | 63.7                    | 151.7                         | 164,200 *b                        | 67.6                    | 153.0                         | 178,900 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 50                           |
| 55                           | 51.8                    | 144.4                         | 117,700 *                         | 59.0                    | 148.8                         | 143,000 *b                        | 63.0                    | 150.6                         | 161,300 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 55                           |
| 60                           | 46.3                    | 139.9                         | 104,500 *                         | 54.0                    | 145.4                         | 124,400 *                         | 58.3                    | 147.6                         | 139,900 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 60                           |
| 65                           | 40.2                    | 134.4                         | 93,800 *                          | 48.7                    | 141.2                         | 109,900 *                         | 53.3                    | 144.1                         | 122,000 *                         | 60.2                    | 147.2                         | 148,500 *b                        |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 65                           |
| 70                           | 33.2                    | 127.4                         | 85,000 *                          | 42.9                    | 136.2                         | 98,200 *                          | 47.9                    | 139.8                         | 108,000 *                         | 55.3                    | 143.9                         | 128,600 *                         |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 70                           |
| 75                           | 24.4                    | 117.9                         | 77,500 *                          | 36.3                    | 129.9                         | 88,600 *                          | 42.0                    | 134.6                         | 96,700 *                          | 50.1                    | 140.0                         | 113,200 *                         | 57.1                    | 142.9                         | 129,700                           |                         |                               |                                   |                         |                               |                                   | 75                           |
| 80                           | 9.3                     | 100.1                         | 65,200 *                          | 28.5                    | 121.7                         | 80,600 *                          | 35.3                    | 128.1                         | 87,400 *                          | 44.4                    | 135.2                         | 100,900 *                         | 52.0                    | 139.2                         | 118,400 *                         |                         |                               |                                   |                         |                               |                                   | 80                           |
| 85                           |                         |                               |                                   | 17.5                    | 109.3                         | 73,800 *                          | 27.1                    | 119.5                         | 79,500 *                          | 38.0                    | 129.2                         | 90,900 *                          | 46.5                    | 134.7                         | 105,100 *                         |                         |                               |                                   |                         |                               |                                   | 85                           |
| 90                           |                         |                               |                                   |                         |                               |                                   | 15.2                    | 105.8                         | 72,800 *                          | 30.6                    | 121.6                         | 82,500 *                          | 40.4                    | 129.3                         | 94,300 *                          | 48.3                    | 133.4                         | 101,300                           |                         |                               |                                   | 90                           |
| 95                           |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 20.7                    | 110.7                         | 75,400 *                          | 33.5                    | 122.3                         | 85,400 *                          | 42.4                    | 128.3                         | 94,800                            |                         |                               |                                   | 95                           |
| 100                          |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 24.7                    | 113.0                         | 77,900 *                          | 35.8                    | 121.9                         | 88,100 *                          | 44.0                    | 126.3                         | 87,100                            | 100                          |
| 105                          |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 10.2                    | 96.0                          | 71,400 *                          | 27.8                    | 113.5                         | 80,200 *                          | 37.6                    | 120.3                         | 82,000                            | 105                          |
| 110                          |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 16.4                    | 100.5                         | 73,400 *                          | 30.1                    | 112.5                         | 77,400                            | 110                          |
| 115                          |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   |                         |                               |                                   | 20.0                    | 101.3                         | 73,200                            | 115                          |

NOTICE: This capacity chart is for reference use only and must not be used for a specific serial number crane. Serial numbered laminated capacity charts for a specific crane can be purchased from an authorized Manitowoc Distributor.

