


- To estimate approximate location of DRILL HOLE
- 1.- Determine how far back from the middle of the discharge you want to be back. This is the OFFSET dimension
  - 2.- use this formula to estimate the DRILL HOLE LOCATION

$$\text{DRILL HOLE LOCATION} = (\text{OFFSET} / \text{COSINE of ANGLE}) - 84''$$

Example:  
 36 degrees, 100" offset would mean the  
 DRILL HOLE LOCATION would be at approximately 39" (give or take a few inches)

COSINE OF COMMON ANGLES

|    |       |
|----|-------|
| 23 | 0.921 |
| 24 | 0.914 |
| 25 | 0.906 |
| 26 | 0.899 |
| 27 | 0.891 |
| 28 | 0.883 |
| 29 | 0.875 |
| 30 | 0.866 |
| 31 | 0.857 |
| 32 | 0.848 |
| 33 | 0.839 |
| 34 | 0.829 |
| 35 | 0.819 |
| 36 | 0.809 |
| 37 | 0.799 |
| 38 | 0.788 |
| 39 | 0.777 |
| 40 | 0.766 |

|                                                                                                                                                             |                             |             |                                                |           |                        |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|------------------------------------------------|-----------|------------------------|---------------------|
| <br><a href="http://www.meridianmfg.com">www.meridianmfg.com</a>       |                             |             | PROJECT/CUSTOMER NAME:                         |           |                        |                     |
|                                                                                                                                                             |                             |             | PART DESCRIPTION:<br>40FT FLOOR MOUNT CONVEYOR |           |                        |                     |
| <small>THIS DRAWING IS THE EXCLUSIVE PROPERTY OF MERIDIAN MFG INC. DUPLICATION BY ANY MEANS IS PROHIBITED WITHOUT PERMISSION FROM MERIDIAN MFG INC.</small> |                             |             | MATERIAL:<br>Steel, Mild                       |           | WEIGHT: 2315.64 lbmass |                     |
|                                                                                                                                                             |                             |             | FABRICATION: XXX                               |           |                        |                     |
| DRAWN BY:<br>SJP                                                                                                                                            | DRAWN BY DATE:<br>2/12/2016 | CHECKED BY: | PART/DRAWING NUMBER:<br>47339 - 36 deg         | REV:<br>A | SCALE:<br>1/80         | SHEET No:<br>1 OF 1 |