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|---|---------------------------------------|-----------------------------|--|
|  | Subject: <u>Girder Bracing Design</u> | | |
| | | | |
| | Comp by: <u>MLS</u> | Date: <u>09/13/18</u> | Sheet Number: <u> </u> of <u> </u> |
| | Check by: <u>PRS</u> | Job Number: <u>135-17-1</u> | |

Analysis Number: 1
Analysis Tag: 1

Design Load: -3.441864584 17.20874229 -1.531136049 7.655421672 -0.426608725 2.126344466

| | Member 1 | | Member 2 | | Member 3 | |
|--------------|---|---|---|---|---|---|
| | Design Compressive Strg of Brace., ΦP_n (kip) | Design Tensile Strg of Brace., ΦP_n (kip) | Design Compressive Strg of Brace., ΦP_n (kip) | Design Tensile Strg of Brace., ΦP_n (kip) | Design Compressive Strg of Brace., ΦP_n (kip) | Design Tensile Strg of Brace., ΦP_n (kip) |
| HDPB 5'-9' | 9.58 | 9.93 | 10.34 | 10.34 | 9.80 | 10.14 |
| HDPB 7'-11' | 9.58 | 9.93 | 10.34 | 10.34 | 9.80 | 10.14 |
| HDPB 10'-15' | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| HDPB 12'-20' | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| HDPB 15'-26' | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| HDPB 22'-35' | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| MB 5'-8' | 9.58 | 9.93 | 11.86 | 11.89 | 9.80 | 10.14 |
| MB 8'-14' | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

| | Number of Lines | | | | | | Number of Lines |
|--------------|-----------------|------|------|------|------|------|-----------------|
| HDPB 5'-9' | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 |
| HDPB 7'-11' | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 |
| HDPB 10'-15' | - | - | - | - | - | - | NG |
| HDPB 12'-20' | - | - | - | - | - | - | NG |
| HDPB 15'-26' | - | - | - | - | - | - | NG |
| HDPB 22'-35' | - | - | - | - | - | - | NG |
| MB 5'-8' | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 |
| MB 8'-14' | - | - | - | - | - | - | NG |

Stiffness: 9186853.933

TODO Stiffness Check