

| WING | DIMENSIONS | | | | | BAR SPACINGS | | | | | | | | | | | | | | | | | NO. WEEP HOLES | | | | | |
|------|------------|--------|-------|--------|--------|--------------|--------|-----|--------|-----|-------|-----|-------|-----|-------|-----|--------|-----|--------|-------|--------|-----|----------------|-------|--------|-----|-------|----|
| | J | K | L | M | N | WV1 | | WV2 | | WV3 | | WV4 | | WH1 | | WH2 | | WF2 | | WF3 | | WF5 | | WF6 | | WF7 | | |
| | | | | | | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | BB | CC | DD | EE | | FF | GG | HH | JJ | KK |
| A | 1'-6" | 4'-0" | 1'-9" | 5'-0" | 4'-0" | 4 | 4'-0" | 3 | 3'-9" | -- | -- | -- | -- | 1 | 1'-3" | -- | -- | -- | 4 | 4'-0" | -- | -- | 3 | 3'-9" | -- | -- | -- | |
| B | 1'-6" | 4'-6" | 1'-9" | 6'-0" | 4'-0" | 5 | 5'-0" | 4 | 5'-0" | -- | -- | -- | -- | 1 | 0'-6" | 1 | 1'-3" | -- | 5 | 5'-0" | -- | -- | 4 | 5'-0" | -- | -- | -- | |
| C | 1'-6" | 5'-0" | 1'-9" | 7'-0" | 4'-0" | 6 | 6'-0" | 5 | 6'-3" | -- | -- | -- | -- | 1 | 1'-0" | 1 | 1'-3" | -- | 6 | 6'-0" | -- | -- | 5 | 6'-3" | -- | -- | -- | |
| D | 1'-6" | 5'-6" | 2'-3" | 7'-0" | 4'-0" | 6 | 6'-0" | 5 | 6'-3" | -- | -- | -- | -- | 2 | 1'-6" | 1 | 1'-3" | -- | 6 | 6'-0" | -- | -- | 5 | 6'-3" | -- | -- | -- | |
| E | 1'-6" | 6'-0" | 2'-3" | 8'-0" | 4'-6" | 7 | 7'-0" | 6 | 7'-6" | -- | -- | -- | -- | 1 | 0'-9" | 2 | 2'-6" | -- | 7 | 7'-0" | -- | -- | 6 | 7'-6" | -- | -- | -- | |
| F | 1'-6" | 6'-6" | 2'-3" | 9'-0" | 4'-6" | 8 | 8'-0" | 6 | 7'-6" | -- | -- | -- | -- | 1 | 1'-3" | 2 | 2'-6" | -- | 8 | 8'-0" | -- | -- | 6 | 7'-6" | -- | -- | -- | |
| G | 1'-6" | 7'-0" | 2'-9" | 9'-0" | 5'-6" | 8 | 8'-0" | 6 | 7'-6" | -- | -- | -- | -- | 2 | 1'-9" | 2 | 2'-6" | 1 | 0'-9" | 8 | 8'-0" | -- | -- | 6 | 7'-6" | -- | -- | |
| H | 1'-6" | 7'-6" | 2'-9" | 10'-0" | 5'-6" | 9 | 9'-0" | 7 | 8'-9" | -- | -- | -- | -- | 2 | 2'-3" | 2 | 2'-6" | 1 | 0'-9" | 9 | 9'-0" | -- | -- | 7 | 8'-9" | -- | -- | |
| I | 1'-6" | 8'-0" | 3'-0" | 11'-0" | 6'-0" | 10 | 10'-0" | 8 | 10'-0" | -- | -- | -- | -- | 2 | 1'-6" | 3 | 3'-9" | 2 | 1'-3" | 10 | 10'-0" | -- | -- | 8 | 10'-0" | -- | -- | |
| J | 1'-6" | 8'-6" | 3'-0" | 12'-0" | 6'-6" | 11 | 11'-0" | 9 | 11'-3" | -- | -- | -- | -- | 2 | 2'-0" | 3 | 3'-9" | 2 | 1'-9" | 7 | 7'-0" | 4 | 3'-0" | 9 | 11'-3" | -- | -- | |
| K | 1'-6" | 9'-0" | 3'-6" | 13'-0" | 7'-0" | 8 | 8'-0" | 10 | 12'-6" | 4 | 3'-0" | -- | -- | 2 | 2'-6" | 3 | 3'-9" | 3 | 2'-3" | 8 | 8'-0" | 4 | 3'-0" | 10 | 12'-6" | -- | -- | |
| L | 1'-6" | 9'-6" | 3'-6" | 13'-0" | 7'-6" | 8 | 8'-0" | 10 | 12'-6" | 4 | 3'-0" | -- | -- | 3 | 3'-0" | 3 | 3'-9" | 3 | 2'-9" | 8 | 8'-0" | 4 | 3'-0" | 10 | 12'-6" | -- | -- | |
| M | 1'-6" | 10'-0" | 3'-6" | 14'-0" | 7'-6" | 9 | 9'-0" | 10 | 12'-6" | 4 | 3'-0" | -- | -- | 2 | 2'-3" | 4 | 5'-0" | 3 | 2'-9" | 8 | 8'-0" | 6 | 4'-6" | 10 | 12'-6" | -- | -- | |
| N | 1'-6" | 10'-6" | 4'-0" | 14'-0" | 8'-6" | 9 | 9'-0" | 10 | 12'-6" | 4 | 3'-0" | -- | -- | 3 | 2'-9" | 4 | 5'-0" | 4 | 3'-9" | 7 | 7'-0" | 7 | 5'-3" | 10 | 12'-6" | -- | -- | |
| O | 1'-6" | 11'-0" | 4'-0" | 15'-0" | 8'-6" | 9 | 9'-0" | 11 | 13'-9" | 6 | 4'-6" | -- | -- | 3 | 3'-3" | 4 | 5'-0" | 4 | 3'-9" | 7 | 7'-0" | 8 | 6'-0" | 11 | 13'-9" | -- | -- | |
| P | 1'-6" | 11'-6" | 4'-0" | 16'-0" | 9'-0" | 9 | 9'-0" | 12 | 15'-0" | 7 | 5'-3" | -- | -- | 2 | 2'-6" | 5 | 6'-3" | 5 | 4'-3" | 7 | 7'-0" | 10 | 7'-6" | 12 | 15'-0" | -- | -- | |
| Q | 1'-6" | 12'-0" | 4'-6" | 16'-0" | 9'-6" | 8 | 8'-0" | 12 | 15'-0" | 8 | 6'-0" | -- | -- | 3 | 3'-0" | 5 | 6'-3" | 5 | 4'-9" | 6 | 6'-0" | 6 | 4'-6" | 12 | 15'-0" | 6 | 3'-0" | |
| R | 1'-6" | 12'-6" | 4'-6" | 17'-0" | 10'-0" | 6 | 6'-0" | 13 | 16'-3" | 6 | 4'-6" | 8 | 4'-0" | 3 | 3'-6" | 5 | 6'-3" | 6 | 5'-3" | 6 | 6'-0" | 6 | 4'-6" | 13 | 16'-3" | 8 | 4'-0" | |
| S | 1'-6" | 13'-0" | 4'-6" | 18'-0" | 10'-0" | 7 | 7'-0" | 14 | 17'-6" | 6 | 4'-6" | 8 | 4'-0" | 4 | 4'-0" | 5 | 6'-3" | 6 | 5'-3" | 6 | 6'-0" | 7 | 5'-3" | 14 | 17'-6" | 8 | 4'-0" | |
| T | 2'-0" | 13'-6" | 4'-9" | 19'-0" | 11'-6" | 8 | 8'-0" | 14 | 17'-6" | 6 | 4'-6" | 8 | 4'-0" | 3 | 3'-3" | 6 | 7'-6" | 7 | 6'-9" | 7 | 7'-0" | 6 | 4'-6" | 14 | 17'-6" | 10 | 5'-0" | |
| U | 2'-0" | 14'-0" | 5'-3" | 19'-0" | 12'-0" | 6 | 6'-0" | 14 | 17'-6" | 7 | 5'-3" | 10 | 5'-0" | 3 | 3'-9" | 6 | 7'-6" | 8 | 7'-3" | 6 | 6'-0" | 6 | 4'-6" | 14 | 17'-6" | 12 | 6'-0" | |
| V | 2'-0" | 14'-6" | 5'-3" | 20'-0" | 12'-6" | 6 | 6'-0" | 15 | 18'-9" | 7 | 5'-3" | 12 | 6'-0" | 4 | 4'-3" | 6 | 7'-6" | 8 | 7'-9" | 7 | 7'-0" | 6 | 4'-6" | 15 | 18'-9" | 12 | 6'-0" | |
| W | 2'-0" | 15'-0" | 5'-3" | 21'-0" | 13'-6" | 7 | 7'-0" | 16 | 20'-0" | 7 | 5'-3" | 12 | 6'-0" | 4 | 4'-9" | 6 | 7'-6" | 9 | 8'-9" | 8 | 8'-0" | 6 | 4'-6" | 16 | 20'-0" | 12 | 6'-0" | |
| X | 2'-0" | 15'-6" | 5'-9" | 21'-0" | 15'-0" | 7 | 7'-0" | 16 | 20'-0" | 7 | 5'-3" | 12 | 6'-0" | 5 | 5'-3" | 6 | 7'-6" | 11 | 10'-3" | 8 | 8'-0" | 6 | 4'-6" | 16 | 20'-0" | 12 | 6'-0" | |
| Y | 2'-0" | 16'-0" | 5'-9" | 22'-0" | 15'-0" | 8 | 8'-0" | 17 | 21'-3" | 7 | 5'-3" | 12 | 6'-0" | 4 | 4'-6" | 7 | 8'-9" | 11 | 10'-3" | 8 | 8'-0" | 7 | 5'-3" | 17 | 21'-3" | 12 | 6'-0" | |
| Z | 2'-0" | 16'-6" | 5'-9" | 23'-0" | 15'-6" | 9 | 9'-0" | 18 | 22'-6" | 7 | 5'-3" | 12 | 6'-0" | 4 | 5'-0" | 7 | 8'-9" | 11 | 10'-9" | 8 | 8'-0" | 9 | 6'-9" | 18 | 22'-6" | 12 | 6'-0" | |
| AA | 2'-0" | 17'-0" | 5'-9" | 24'-0" | 15'-6" | 8 | 8'-0" | 18 | 22'-6" | 10 | 7'-6" | 12 | 6'-0" | 4 | 4'-3" | 8 | 10'-0" | 11 | 10'-9" | 9 | 9'-0" | 9 | 6'-9" | 18 | 22'-6" | 12 | 6'-0" | |
| BB | 2'-0" | 17'-6" | 6'-3" | 24'-0" | 16'-0" | 8 | 8'-0" | 18 | 22'-6" | 10 | 7'-6" | 12 | 6'-0" | 4 | 4'-9" | 8 | 10'-0" | 12 | 11'-3" | 8 | 8'-0" | 10 | 7'-6" | 18 | 22'-6" | 12 | 6'-0" | |
| CC | 2'-0" | 18'-0" | 6'-3" | 25'-0" | 16'-0" | 8 | 8'-0" | 19 | 23'-9" | 11 | 8'-3" | 12 | 6'-0" | 5 | 5'-3" | 8 | 10'-0" | 12 | 11'-3" | 8 | 8'-0" | 10 | 7'-6" | 19 | 23'-9" | 14 | 7'-0" | |
| DD | 2'-6" | 18'-6" | 6'-3" | 26'-0" | 16'-6" | 8 | 8'-0" | 20 | 25'-0" | 11 | 8'-3" | 14 | 7'-0" | 5 | 5'-9" | 8 | 10'-0" | 12 | 11'-9" | 9 | 9'-0" | 10 | 7'-6" | 20 | 25'-0" | 14 | 7'-0" | |
| EE | 2'-6" | 19'-0" | 6'-9" | 26'-0" | 17'-6" | 7 | 7'-0" | 20 | 25'-0" | 11 | 8'-3" | 16 | 8'-0" | 5 | 6'-3" | 8 | 10'-0" | 13 | 12'-9" | 8 | 8'-0" | 10 | 7'-6" | 20 | 25'-0" | 16 | 8'-0" | |



ROAD AND BRIDGE STANDARDS

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WING DETAILS

1 1/2: 1 FILL SLOPE - TYPE I

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