

| 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'-6" | 7'-0" | 4'-0" | 6 | 6'-0" | 5 | 6'-3" | -- | ---- | -- | ---- | -- | ---- | 1 | 1'-3" | -- | ---- | 6 | 6'-0" | -- | ---- | 5 | 6'-3" | -- | ---- | -- |
| B | 1'-6" | 4'-6" | 1'-6" | 8'-0" | 4'-0" | 7 | 7'-0" | 6 | 7'-6" | -- | ---- | -- | ---- | 1 | 0'-6" | 1 | 1'-3" | -- | ---- | 7 | 7'-0" | -- | ---- | 6 | 7'-6" | -- | ---- | -- |
| C | 1'-6" | 5'-0" | 1'-9" | 9'-0" | 4'-0" | 8 | 8'-0" | 6 | 7'-6" | -- | ---- | -- | ---- | 1 | 1'-0" | 1 | 1'-3" | -- | ---- | 8 | 8'-0" | -- | ---- | 6 | 7'-6" | -- | ---- | -- |
| D | 1'-6" | 5'-6" | 1'-9" | 10'-0" | 4'-0" | 9 | 9'-0" | 7 | 8'-9" | -- | ---- | -- | ---- | -- | ---- | 2 | 2'-6" | -- | ---- | 9 | 9'-0" | -- | ---- | 7 | 8'-9" | -- | ---- | -- |
| E | 1'-6" | 6'-0" | 2'-0" | 11'-0" | 4'-0" | 10 | 10'-0" | 8 | 10'-0" | -- | ---- | -- | ---- | 1 | 0'-9" | 2 | 2'-6" | -- | ---- | 10 | 10'-0" | -- | ---- | 8 | 10'-0" | -- | ---- | -- |
| F | 1'-6" | 6'-6" | 2'-0" | 12'-0" | 4'-0" | 11 | 11'-0" | 9 | 11'-3" | -- | ---- | -- | ---- | 1 | 1'-3" | 2 | 2'-6" | -- | ---- | 11 | 11'-0" | -- | ---- | 9 | 11'-3" | -- | ---- | -- |
| G | 1'-6" | 7'-0" | 2'-3" | 13'-0" | 4'-6" | 12 | 12'-0" | 10 | 12'-6" | -- | ---- | -- | ---- | 2 | 1'-9" | 2 | 2'-6" | -- | ---- | 12 | 12'-0" | -- | ---- | 10 | 12'-6" | -- | ---- | -- |
| H | 1'-6" | 7'-6" | 2'-3" | 14'-0" | 5'-0" | 13 | 13'-0" | 10 | 12'-6" | -- | ---- | -- | ---- | 1 | 1'-0" | 3 | 3'-9" | -- | ---- | 13 | 13'-0" | -- | ---- | 10 | 12'-6" | -- | ---- | -- |
| I | 1'-6" | 8'-0" | 2'-6" | 15'-0" | 5'-0" | 14 | 14'-0" | 11 | 13'-9" | -- | ---- | -- | ---- | 2 | 1'-6" | 3 | 3'-9" | -- | ---- | 14 | 14'-0" | -- | ---- | 11 | 13'-9" | -- | ---- | -- |
| J | 1'-6" | 8'-6" | 2'-6" | 16'-0" | 5'-6" | 15 | 15'-0" | 12 | 15'-0" | -- | ---- | -- | ---- | 2 | 2'-0" | 3 | 3'-9" | 1 | 0'-9" | 15 | 15'-0" | -- | ---- | 12 | 15'-0" | -- | ---- | -- |
| K | 1'-6" | 9'-0" | 2'-9" | 17'-0" | 6'-0" | 16 | 16'-0" | 13 | 16'-3" | -- | ---- | -- | ---- | 1 | 1'-3" | 4 | 5'-0" | 2 | 1'-3" | 16 | 16'-0" | -- | ---- | 13 | 16'-3" | -- | ---- | -- |
| L | 1'-6" | 9'-6" | 2'-9" | 18'-0" | 6'-0" | 12 | 12'-0" | 14 | 17'-6" | 6 | 4'-6" | -- | ---- | 2 | 1'-9" | 4 | 5'-0" | 2 | 1'-3" | 17 | 17'-0" | -- | ---- | 14 | 17'-6" | -- | ---- | -- |
| M | 1'-6" | 10'-0" | 3'-0" | 19'-0" | 6'-6" | 13 | 13'-0" | 14 | 17'-6" | 6 | 4'-6" | -- | ---- | 2 | 2'-3" | 4 | 5'-0" | 2 | 1'-9" | 13 | 13'-0" | 6 | 4'-6" | 14 | 17'-6" | -- | ---- | -- |
| N | 1'-6" | 10'-6" | 3'-6" | 19'-0" | 6'-6" | 10 | 10'-0" | 14 | 17'-6" | 6 | 4'-6" | 4 | 2'-0" | 3 | 2'-9" | 4 | 5'-0" | 2 | 1'-9" | 13 | 13'-0" | 6 | 4'-6" | 14 | 17'-6" | -- | ---- | -- |
| O | 1'-6" | 11'-0" | 3'-6" | 20'-0" | 7'-0" | 11 | 11'-0" | 15 | 18'-9" | 6 | 4'-6" | 4 | 2'-0" | 2 | 2'-0" | 5 | 6'-3" | 3 | 2'-3" | 14 | 14'-0" | 6 | 4'-6" | 15 | 18'-9" | -- | ---- | 1 |
| P | 1'-6" | 11'-6" | 3'-9" | 21'-0" | 7'-6" | 8 | 8'-0" | 16 | 20'-0" | 9 | 6'-9" | 8 | 4'-0" | 2 | 2'-6" | 5 | 6'-3" | 3 | 2'-9" | 9 | 9'-0" | 5 | 3'-9" | 16 | 20'-0" | 12 | 6'-0" | 1 |
| Q | 1'-6" | 12'-0" | 3'-9" | 22'-0" | 7'-6" | 9 | 9'-0" | 17 | 21'-3" | 9 | 6'-9" | 8 | 4'-0" | 3 | 3'-0" | 5 | 6'-3" | 3 | 2'-9" | 10 | 10'-0" | 5 | 3'-9" | 17 | 21'-3" | 12 | 6'-0" | 1 |
| R | 1'-6" | 12'-6" | 4'-0" | 23'-0" | 8'-0" | 10 | 10'-0" | 18 | 22'-6" | 9 | 6'-9" | 8 | 4'-0" | 3 | 3'-6" | 5 | 6'-3" | 4 | 3'-3" | 11 | 11'-0" | 5 | 3'-9" | 18 | 22'-6" | 12 | 6'-0" | 1 |
| S | 1'-6" | 13'-0" | 4'-0" | 24'-0" | 8'-6" | 11 | 11'-0" | 18 | 22'-6" | 9 | 6'-9" | 8 | 4'-0" | 3 | 2'-9" | 6 | 7'-6" | 4 | 3'-9" | 12 | 12'-0" | 5 | 3'-9" | 18 | 22'-6" | 12 | 6'-0" | 1 |
| T | 1'-6" | 13'-6" | 4'-3" | 25'-0" | 8'-6" | 12 | 12'-0" | 19 | 23'-9" | 9 | 6'-9" | 8 | 4'-0" | 3 | 3'-3" | 6 | 7'-6" | 4 | 3'-9" | 9 | 9'-0" | 7 | 5'-3" | 19 | 23'-9" | 17 | 8'-6" | 2 |
| U | 1'-6" | 14'-0" | 4'-3" | 26'-0" | 9'-0" | 12 | 12'-0" | 20 | 25'-0" | 9 | 6'-9" | 10 | 5'-0" | 3 | 3'-9" | 6 | 7'-6" | 5 | 4'-3" | 11 | 11'-0" | 11 | 8'-3" | 20 | 25'-0" | 9 | 4'-6" | 2 |
| V | 1'-6" | 14'-6" | 4'-6" | 27'-0" | 9'-6" | 10 | 10'-0" | 21 | 26'-3" | 13 | 9'-9" | 10 | 5'-0" | 3 | 3'-0" | 7 | 8'-9" | 5 | 4'-9" | 11 | 11'-0" | 11 | 8'-3" | 21 | 26'-3" | 11 | 5'-6" | 2 |
| W | 1'-6" | 15'-0" | 4'-6" | 28'-0" | 10'-0" | 11 | 11'-0" | 22 | 27'-6" | 13 | 9'-9" | 10 | 5'-0" | 3 | 3'-6" | 7 | 8'-9" | 6 | 5'-3" | 11 | 11'-0" | 11 | 8'-3" | 22 | 27'-6" | 13 | 6'-6" | 2 |
| X | 1'-9" | 15'-6" | 4'-9" | 29'-0" | 11'-0" | 11 | 11'-0" | 22 | 27'-6" | 13 | 9'-9" | 12 | 6'-0" | 4 | 4'-0" | 7 | 8'-9" | 7 | 6'-3" | 9 | 9'-0" | 15 | 11'-3" | 22 | 27'-6" | 13 | 6'-6" | 2 |
| Y | 2'-0" | 16'-0" | 4'-9" | 30'-0" | 12'-0" | 10 | 10'-0" | 23 | 28'-9" | 17 | 12'-9" | 10 | 5'-0" | 3 | 3'-3" | 8 | 10'-0" | 8 | 7'-3" | 9 | 9'-0" | 15 | 11'-3" | 23 | 28'-9" | 15 | 7'-6" | 3 |
| Z | 2'-0" | 16'-6" | 5'-0" | 31'-0" | 12'-6" | 10 | 10'-0" | 24 | 30'-0" | 17 | 12'-9" | 12 | 6'-0" | 3 | 3'-9" | 8 | 10'-0" | 8 | 7'-9" | 9 | 9'-0" | 15 | 11'-3" | 24 | 30'-0" | 17 | 8'-6" | 3 |
| AA | 2'-0" | 17'-0" | 5'-0" | 32'-0" | 13'-0" | 11 | 11'-0" | 25 | 31'-3" | 17 | 12'-9" | 12 | 6'-0" | 4 | 4'-3" | 8 | 10'-0" | 9 | 8'-3" | 10 | 10'-0" | 15 | 11'-3" | 25 | 31'-3" | 17 | 8'-6" | 3 |
| BB | 2'-0" | 17'-6" | 5'-3" | 33'-0" | 14'-0" | 12 | 12'-0" | 26 | 32'-6" | 17 | 12'-9" | 12 | 6'-0" | 4 | 4'-9" | 8 | 10'-0" | 10 | 9'-3" | 11 | 11'-0" | 15 | 11'-3" | 26 | 32'-6" | 17 | 8'-6" | 3 |
| CC | 2'-0" | 18'-0" | 5'-3" | 34'-0" | 14'-6" | 13 | 13'-0" | 26 | 32'-6" | 17 | 12'-9" | 12 | 6'-0" | 4 | 4'-0" | 9 | 11'-3" | 10 | 9'-9" | 12 | 12'-0" | 15 | 11'-3" | 26 | 32'-6" | 17 | 8'-6" | 3 |
| DD | 2'-6" | 18'-6" | 5'-6" | 35'-0" | 15'-0" | 12 | 12'-0" | 27 | 33'-9" | 17 | 12'-9" | 16 | 8'-0" | 4 | 4'-6" | 9 | 11'-3" | 11 | 10'-3" | 10 | 10'-0" | 19 | 14'-3" | 27 | 33'-9" | 17 | 8'-6" | 4 |
| EE | 2'-6" | 19'-0" | 5'-6" | 36'-0" | 15'-6" | 12 | 12'-0" | 28 | 35'-0" | 17 | 12'-9" | 18 | 9'-0" | 4 | 5'-0" | 9 | 11'-3" | 11 | 10'-9" | 11 | 11'-0" | 19 | 14'-3" | 28 | 35'-0" | 17 | 8'-6" | 4 |

WING DETAILS
2:1 FILL SLOPE - TYPE I
 VIRGINIA DEPARTMENT OF TRANSPORTATION

STRUCTURE
 AND
 BRIDGE
 DIVISION