| EW-2SPC DIMENSIONS   |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
|--|--|---|------------------|-------------------------------------|--|--|------------------|------------------------|--|----------|---|--|
| EW-25PC  |  | 1½:1 SLOPE 2:1 SLOPE  |                  |                                     |  |  |                  |                        | l .  | NOTES:   |   |  |
|  | ID   | Ħ   | W                | L 30°                               | L 45°  | L 30°  | L 45°            | a                      | l p  | 1.       | CONCRETE TO BE 4000 PSI MINIMUM COMPRESSIVE   |  |
|  | 42"  | 5'-6"   | 8'-0"            | 6'-71/2"                            | 8'-0"  | 8'-8"  | 10'-6"           | 0'-41/2"               | 0'-31/2"   |          | STRENGTH.   |  |
|  | 48"  | 6'-0"   | 8'-10''          | 7'-6"                               | 9'-21/2"   | 9'-9¾"   | 12'-0''          | 0'-5"                  | 0'-4"  | 2.       | REINFORCING STEEL IN ACCORDANCE WITH ASTM A-615 (REINFORCING BARS).   |  |
|  | 54"  | 6'-6"   | 9'-8"            | 8'-41/2"                            | 10'-3''  | 10'-111/2"   | 13'-6"           | 0'-5¾''                | 0'-41/2"   | ٦        | PIPE OPENINGS IN PRECAST DRAINAGE UNITS SHALL   |  |
|  | 60"  | 7'-0"   | 10'-6"           | 9'-3"                               | 11'-31/2"  | 12'-1/4"   | 14'-10'/4"       | 0'-6 /4"               | 0'-5"  | <u> </u> | NOT EXCEED 4 INCHES AT ANY GIVEN POINT BETWEEN THE PIPE AND THE PRECAST UNIT.                               |  |
|  | 66"<br>72"   | 7'-7"<br>8'-2"  | 11'-6"<br>12'-4" | 10'-1 /4"                           | 12'-4 <sup>1</sup> / <sub>2</sub> "<br>13'-5 <sup>1</sup> / <sub>2</sub> " | 13'-3 <sup>1</sup> / <sub>2</sub> "<br>14'-5 <sup>1</sup> / <sub>2</sub> " | 16'-4"<br>17'-8" | 0'-7"                  | 0'-51/2"   | ١.       |   |  |
|  | 78"  | 8'-81/2"  | 13'-0"           | 11'-10"                             | 14'-6"   | 15'-7"   | 19'-0"           | 0'-7"                  | 0'-61/2"   | 4.       | DIMENSIONS SHOWN ARE MINIMUM. ACTUAL MEASUREMENTS MAY VARY WITH MANUFACTURER'S TOLERANCES.                  |  |
|  | 84"  | 9'-3"   | 13'-10"          | 12'-81/2"                           | 15'-6"   | 16'-9''  | 20'-6"           | 0'-7"                  | 0'-7"  | 5.       | IN NO CASE SHALL TOP OF ENDWALL PROTRUDE ABOVE  |  |
|  | 90''   | 9'-11"  | 14'-10"          | 13'-7"                              | 16'-7 <sup>l</sup> /2''  | 17'-11"  | 21'-11''         | 0'-7''                 | 0'-71/2"   |          | FILL SLOPE, DITCH SLOPE, OR SHOULDER.   |  |
|  | 96"  | 10'-7"  | 15'-10''         | 14'-5 <sup> </sup> / <sub>4</sub> " | 17'-8 <sup>l</sup> /4"   | 19'-1"   | 23'-4"           | 0'-7''                 | 0'-8''   | 6.       | HEADWALL TO BE BEVELED IN ALL AREAS EXCEPT WHERE A CONFLICT WITH INVERT OR WINGWALL OCCUR.                  |  |
| 7. BEVEL EDGE AS REQUIRED ON THE HEADWALL INLET END OF THE CULVERT (WHERE THE FLO  |  |   |                  |                                     |  |  |                  |                        |  |          | BEVEL EDGE AS REQUIRED ON THE HEADWALL AT THE INLET END OF THE CULVERT (WHERE THE FLOW ENTERS THE CULVERT). |  |
| 30° OR SIDE, MAX. SPACING 30".  CONCRETE INSERTS & 8. HEADWALL SIDE, MAX. SPACING 30".  BE EITHE   |  |   |                  |                                     |  |  |                  |                        | HEADWALL AT THE OUTLET END OF THE CULVERT MAY BE EITHER SQUARE EDGE OR BEVEL EDGE. |          |   |  |
|  | 1/   |   | 45°              | , //w                               | ORTAR 7  |  |                  |                        |  | 9.       | ¾" CHAMFER MAY BE PROVIDED ON ALL EDGES AT MANUFACTURER'S OPTION.   |  |
| SHAPE TO BE BEVELED WITH MORTAR  |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| PLAN VIEW  45°  FACE OF HEADWALL  OF THE ADWALL  OF |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| GROUT WINGS AND ENDWALL TO BASE SECTION  CONCRETE INSERTS  A 74" LAG BOLTS   |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| #4 BARS 12" C-C E.W., E.F.   |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| Ξ.Ψ., Σ.; .  |  |   |                  |                                     |  |  |                  | -#4 BARS<br>E.W., E.F. | 6" C-C   | BI       | FACE OF HEADWALL HAPE TO E BEVELED ITH MORTAR  Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q                          |  |
| BASE J   |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| SEE DETAIL B  #4 BARS 6" C-C  ELEVATION VIEW  SEE DETAIL B  #4 BARS 6" C-C   |  |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| _  | PRECAST ENDWALL FOR PIPE CULVERTS  SPECIFICATION REFERENCE REFERENCE |   |                  |                                     |  |  |                  |                        |  |          |   |  |
| ROAD AND BRID  | GE STAN  | AOU OCU ODOULAD DIDEC WITH 700 AND 450 CVEW   |                  |                                     |  |  |                  |                        |  |          |   |  |
| SHEET 1 OF 1<br>101.10   | REVISIO  | REVISION DATE  42" - 96" CIRCULAR PIPES WITH 30° AND 45° SKEW  VIRGINIA DEPARTMENT OF TRANSPORTATION  105 302 |                  |                                     |  |  |                  |                        |  |          |   |  |
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