

BOX CULVERT SUPPLEMENT SHEET - WINGS AND END TREATMENTS

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Revision: 2/3/2020, Bridge Division

| Culvert Station and/or Creek Name | Description of Box Culvert No. Spans ~ Span X Height | Max Fill Height (ft) | Applicable Box Culvert Standard | Applicable Wingwall or End Treatment Standard | Skew Angle (0°, 15°, 30° or 45°) | Side Slope or Channel Slope (S:L:1) | T Culvert Top Slab Thickness (in) | U Culvert Wall Thickness (in) | C Estimated Curb Height (ft) | Hw Height of Wing (ft) | A Curb to End of Wingwall (ft) | B Offset of End of Wingwall (ft) | Lw Length of Longest Wingwall (ft) | Ltw Culvert Toewall Length (ft) | Atw Anchor Toewall Length (ft) | Riprap Apron (C.Y.) | Class "C" Conc. (Curb) (CY) | Class "C" Conc. (Wing) (CY) | Total Wingwall Area (SF) |
|--------------------------------------|--|----------------------|---------------------------------|---|----------------------------------|-------------------------------------|-----------------------------------|-------------------------------|------------------------------|------------------------|--------------------------------|----------------------------------|------------------------------------|---------------------------------|--------------------------------|---------------------|-----------------------------|-----------------------------|--------------------------|
| Culvert STA 233+00.00 SBFR (Rt) | 1 ~ 7' X 3' | 4' | SCC-7 | SETB-FW-0 | 0 | 3:1 | 8" | 7" | 1,000 | 4.417 | 12.250 | 7.073 | 14.145 | 8.167 | 21.145 | 0.0 | 0.3 | 6.1 | N/A |
| Culvert 1 STA 269+20.39 SBFR (Rt) | 3 ~ 10' X 10' | 10' | MC-10-10 | PW-1 | 0 | 4:1 | 9" | 8" | 2,750 | 13.500 | N/A | N/A | 54,000 | 32,667 | N/A | 0.0 | 3.3 | 103.5 | 1458 |
| Culvert 2 STA 288+45.69 SBFR (Rt) | 1 ~ 7' X 3' | 10' | SCC-7 | PW-1 | 15 | 4:1 | 8" | 7" | 1,000 | 4.667 | N/A | N/A | 19,325 | 8,455 | N/A | 0.0 | 0.3 | 12.8 | 180 |
| Culvert 3 STA 306+71.70 SBFR (Rt) | 3 ~ 10' X 10' | 10' | MC-10-10 | PW-1 | 0 | 4:1 | 9" | 8" | 1,250 | 12.000 | N/A | N/A | 48,000 | 32,667 | N/A | 0.0 | 1.5 | 81.5 | 1152 |
| Culvert 5 STA 352+36.30 SBFR (Rt) | 5 ~ 5' X 2' | 20' | MC-5-20 | PW-1 | 0 | 4:1 | 8" | 7" | 1,000 | 3.667 | N/A | N/A | 14,667 | 28,500 | N/A | 0.0 | 1.1 | 9.8 | 108 |
| Culvert STA 356+58.87 SBFR (Rt) | 1 ~ 3' X 2' | 6' | SCP-3 | SETB-CD | 0 | 4:1 | 4" | 4" | 3,917 | 6.000 | N/A | N/A | 22,667 | N/A | 4.167 | 0.0 | 0.5 | 5.2 | N/A |
| Culvert STA 362+55.47 SBFR (Rt) | 1 ~ 3' X 2' | 3' | SCP-3 | SETB-CD | 0 | 4:1 | 4" | 4" | 0,917 | 3.000 | N/A | N/A | 10,667 | N/A | 4.167 | 0.0 | 0.1 | 1.8 | N/A |
| Culvert STA 363+75.00 Drwy #7 (Both) | 1 ~ 4' X 2' | 3' | SCP-4 | SETB-PD | 0 | 6:1 | 5" | 5" | 0,833 | 3.000 | N/A | N/A | 16,500 | N/A | 5.167 | 0.0 | 0.2 | 6.2 | N/A |
| Culvert STA 368+55.98 SBFR (Rt) | 1 ~ 3' X 2' | 3' | SCP-3 | SETB-CD | 0 | 4:1 | 4" | 4" | 2,917 | 5.000 | N/A | N/A | 18,667 | N/A | 4.167 | 0.0 | 0.4 | 3.9 | N/A |



Handwritten signature and date: 09/25/20

*FOR CONTRACTOR'S INFORMATION.
ALL BCS NOTES APPLY.*