

| ESTIMATED QUANTITIES (WITH CAST-IN-PLACE ABUTMENTS) | | | | | | | | | |
|---|------|-------------------------------|-------------------------|-------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|
| | SPAN | REINFORCED CONCRETE BOX BEAMS | | | PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS | | | | |
| | | 30'-0 | 40'-0 | 50'-0 | 30'-0 | 40'-0 | 50'-0 | 60'-0 | 70'-0 |
| UHPC JOINT FOR CONCRETE BOX BEAM | L.F. | 218 | 288 | 358 | 218 | 288 | 358 | 428 | 498 |
| STRUCTURAL CONCRETE * | C.Y. | 39.3 | 39.3 | 41.1 | 37.1 | 37.1 | 39.3 | 39.3 | 41.1 |
| EPOXY COATED REINFORCING STEEL * | LBS. | 6,231 | 6,231 | 6,365 | 6,051 | 6,051 | 6,231 | 6,252 | 6,309 |
| STRUCTURAL STEEL ** | LBS. | 1,726 | 2,222 | 3,112 | 1,478 | 1,900 | 2,718 | 3,215 | 4,442 |
| REINFORCED CONCRETE BOX BEAM | NO. | 8-27"x48"x30'-0 RCBB | 8-27"x48"x40'-0 RCBB | 8-33"x48"x50'-0 RCBB | - | - | - | - | - |
| PRETENSIONED PRESTRESSED CONCRETE BOX BEAM | NO. | - | - | - | 8-21"x48"x30'-0 PPCBB | 8-21"x48"x40'-0 PPCBB | 8-27"x48"x50'-0 PPCBB | 8-27"x48"x60'-0 PPCBB | 8-33"x48"x70'-0 PPCBB |
| NO. OF STEEL H-PILES (HP 10x57) FOR TWO ABUTMENTS | NO. | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 16 |

NOTES:
 * INCLUDES TWO ABUTMENT FOOTINGS AND TWO ABUTMENT BACKWALLS. SEE SHEET B30-15-16 FOR ADDITIONAL CONCRETE REQUIRED IN ABUTMENT FOOTINGS.
 ** INCLUDES FOUR RETAINER ANGLE ASSEMBLIES AND BRIDGE RAIL POSTS.

| ESTIMATED QUANTITIES (WITH PRECAST ABUTMENTS) | | | | | | | | | |
|---|------|-------------------------------|-------------------------|-------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|
| | SPAN | REINFORCED CONCRETE BOX BEAMS | | | PRETENSIONED PRESTRESSED CONCRETE BOX BEAMS | | | | |
| | | 30'-0 | 40'-0 | 50'-0 | 30'-0 | 40'-0 | 50'-0 | 60'-0 | 70'-0 |
| UHPC JOINT FOR CONCRETE BOX BEAM | L.F. | 218 | 288 | 358 | 218 | 288 | 358 | 428 | 498 |
| STRUCTURAL STEEL ** | LBS. | 1,726 | 2,222 | 3,112 | 1,478 | 1,900 | 2,718 | 3,215 | 4,442 |
| PRECAST ABUTMENT BACKWALL | NO. | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| PRECAST ABUTMENT FOOTING (CONCRETE WINGS) *** | NO. | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| REINFORCED CONCRETE BOX BEAM | NO. | 8-27"x48"x30'-0 RCBB | 8-27"x48"x40'-0 RCBB | 8-33"x48"x50'-0 RCBB | - | - | - | - | - |
| PRETENSIONED PRESTRESSED CONCRETE BOX BEAM | NO. | - | - | - | 8-21"x48"x30'-0 PPCBB | 8-21"x48"x40'-0 PPCBB | 8-27"x48"x50'-0 PPCBB | 8-27"x48"x60'-0 PPCBB | 8-33"x48"x70'-0 PPCBB |
| NO. OF STEEL H-PILES (HP 10x57) FOR TWO ABUTMENTS | NO. | 12 | 12 | 12 | 12 | 12 | 12 | 14 | 16 |

NOTES:
 ** INCLUDES FOUR RETAINER ANGLE ASSEMBLIES AND BRIDGE RAIL POSTS.
 *** INCLUDES HIGH EARLY STRENGTH SELF-CONSOLIDATING CONCRETE FOR CMP POCKETS. SEE SHEET B30-22-16 FOR VOLUME OF HIGH EARLY STRENGTH SELF-CONSOLIDATING CONCRETE REQUIRED FOR EACH BOX BEAM TYPE AND SPAN LENGTH.

NOTES:
 QUANTITIES SHOWN ONLY INCLUDE QUANTITIES COVERED BY THESE STANDARDS. OTHER QUANTITIES, AS REQUIRED, MAY ALSO NEED TO BE COMPUTED BY THE USER OF THESE STANDARDS SUCH AS UHPC JOINT WATER INTEGRITY TEST, EXCAVATION CLASS 20 OR 21, REMOVAL OF STRUCTURE, BRIDGE WING ARMORING, ETC.

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| LATEST REVISION DATE |  APPROVED BY BRIDGE ENGINEER |  STANDARD DESIGN - 30'-0 ROADWAY, SINGLE SPAN CONCRETE BOX BEAM BRIDGES | |
| | | DECEMBER, 2016 | |
| | | QUANTITY SUMMARIES CONCRETE WINGS 15° SKEW | B30-30-16 |