**Reviewers: Use this BSP when pipe pile spacers are shown on bridge plan details and bridge length is less than or equal to 200 feet.**

PIPE PILE SPACERS 1/11/22

**1.0 Description.** In lieu of using pipe pile spacers, the contractor will have the option to use pile jackets. This job special provision contains general requirements for furnishing and placing pile jackets on piles.

**2.0 Material.** All material shall be in accordance with Division 1000, Material Details, and specifically as follows.

**2.1 Pile Jackets.**

**2.1.1** The pile jacket material shall meet or exceed the following physical requirements:

| **Pile Jackets** | | |
| --- | --- | --- |
| **Property** | **Specification** | **Requirement** |
| Specific Gravity | ASTM D 1505 | 0.906 g/cc |
| Tensile @ Yield | ASTM D 638 | 4,000 psi |
| Flexural Modulus | ASTM D 790 | 195,000 psi |
| Elongation @ Break | ASTM D 638 | > 500% |
| Heat Deflection Temperature @ 66 psi | ASTM D 648 | 190°F |
| Impact Strength,  Notched Izod @ 73°F | ASTM D 256 | No Break  ft-lb/in |
| Rockwell Hardness | ASTM D 785 | 75 R scale |

**3.0 Construction Requirements.**

**3.1** For pile jacket option, the contractor shall drive piles before construction of the mechanically stabilized earth (MSE) wall. Pile jackets shall be installed on each pile and placed in the zone between the bottom of the levelling pad and the bottom of beam cap. The pile jacket shall be installed and backfill and soil reinforcements shall be placed around the pile jacket per the pile jacket manufacturer’s installation requirements and recommendations. The contractor shall adequately support the piling to ensure that proper pile alignment is maintained during wall construction. The contractor's plan for bracing the pile shall be submitted to the engineer for review. The contractor shall avoid any damage to pile jacket during MSE wall construction. For damaged pile jacket sections, the contractor shall follow manufacturer’s recommendations for the proper methods of in-place repair.

**4.0 Method of Measurement.** The pipe pile spacer or pile jacket will be measured per each.

**5.0 Basis of Payment.** Payment for furnishing and installing pipe pile spacers or pile jackets complete in place including all equipment, labor, and any other incidental work necessary to complete this item will be considered completely covered by the contract unit price for Pipe Pile Spacers.