CITY OF BILOXI

**SPECIAL PROVISION NO. 907-605-1 CODE: (SP)**

**DATE: 06/27/2017**

**SECTION 605 - UNDERDRAINS**

Delete all of the subsections of Section 605 in their entirety and insert the following:

**605.01 - Description.** The work under this section shall consist of furnishing all materials and constructing perforated pipe underdrains in accordance with these specifications and in reasonably close conformity with the lines and grades indicated on the plans or established by the Engineer.

**605.02 - Materials.**

**605.02.1 – Perforated Corrugated PVC Drain Pipe.** Perforated Corrugated Polyvinyl Chloride (PVC) drain pipe shall be as specified in Section 907-603-1, “Culverts and Storm Drains”, except perforations shall be in accordance with the manufacturers standards for perforated pipe. Perforated pipe shall be produced by the same manufacturer and compatible with any non-perforated pipe that may adjoin the perforated pipe. Perforated pipe shall be manufactured as such. In no case shall non-perforated pipe be retrofitted to contain perforations. The perforation dimensions shall be in accordance with ASTM Designation F949. Minimum open area shall be as follows:

|  |  |
| --- | --- |
| Nominal Pipe  Diameter  (in.) | Perforated  Open Area  Per Foot of Pipe  (square inches) |
|  |  |
| 15 | 2.00 |
| 18 | 2.00 |
| 21 | 4.00 |
| 24 | 4.00 |
| 30 | 5.00 |
| 36 | 5.00 |

**605.02.2 - Geotextile Fabric.** Geotextile fabric shall be as specified in Section 907-603-1, “Culverts and Storm Drains”.

**605.02.3 – Bedding Material.** Bedding shall be “Size II Stabilizer Aggregate” in accordance with Section 907-304-1, “Granular Courses” or “Borrow Excavation” in accordance with Section 203, “Excavation and Embankment” as directed by the City Engineer or his authorized representative.

**605.02.4 – Filter Material.** Filter material shall be “Size II Stabilizer Aggregate” in accordance with Section 907-304-1, “Granular Courses”.

**605.03 - Construction Requirements.**

**605.03.1 – General.** Perforated pipe shall be installed, inspected, and tested in accordance with the detail(s) on the plans and in accordance with Section 907-603-1, “Culverts and Storm Drains”. Excavation for filter beds shall be made to the elevation and dimensions indicated on the plans. Filter materials shall be placed, thoroughly compacted, and shaped to the dimensions indicated on the plans. Unless otherwise specified, compaction shall be to the satisfaction of the Engineer or his authorized representative.

**605.04 - Method of Measurement.** Complete-in-place pipe underdrains, including all special sections and connections, will be measured from end to end by the linear foot along their center line. All appurtenances not listed as a separate pay item will not be measured for separate payment.

Excavation, backfill, compaction, and other related miscellaneous items will not be measured for separate payment. The cost thereof shall be included in the unit price bid for this item.

Aggregate for pipe bedding, if ordered by the City Engineer or his authorized representative, will be measured and paid for by volume in cubic yards in accordance with Section 907-304-1 or Section 203.

“Size II Stabilizer Aggregate” for filter material will be measured and paid for by volume in cubic yards in accordance with 907-304-1.

Geotextile fabric for wrapping of perforated pipe/filter bed for subsurface drainage will be paid for at the contract unit price per square yard. Required overlap of geotextile fabric will not be measured for additional payment. Geotextile fabric called out for other uses such as joint wrapping, hole covering, etc. shall not be measured for separate payment unless noted otherwise.

“Lamping” and making video of new storm drain lines shall not be measured for separate payment. The cost thereof shall be absorbed in the bid price per linear foot of new storm drain line.

**605.05 - Basis of Payment.** Underdrain items will be paid for at the contract unit prices for the respective items, which shall be full compensation for completing the work.

Payment will be made under:

907-605-A: \_\_\_\_” Perforated Corrugated PVC Drain Pipe - per linear foot

907-605-B: Geotextile Fabric for Subsurface Drainage - per square yard