

## LANDSCAPE CULVERT PERMIT APPLICATION

### **Agreement**

The following regulations shall be applicable to all persons wishing to construct and/or install landscape culverts within or upon any public drainage ditch located within the City of Diamondhead:

Prior to performing any work related to the public drainage, the property owner or designee shall file the appropriate application.

The installation of culverts shall be the responsibility of the property owner. All installations must be made in accordance with these regulations and upon completion, the property owner shall notify the City for a final inspection. Should the installation not meet the specifications, the City may:

Require the owner to remove and reset culverts/inlets to specifications approved by the City; or

Remove the culverts/inlets from the ditch and restore to uniform side slopes with permanent erosion protection.

When it has been determined by the City Manager or his representative that the installation of any culverts would be detrimental to the public drainage, it shall be unlawful for the City to issue a permit to the applicant. Notice of rejection and reasons for that rejection will be provided to the applicant.

If granted a permit to install a culvert, the property owner has the option to either self-install or have a private contractor install the culvert. However, procedures for completion and inspections shall be followed.

In the event an installed landscape culvert impedes the public drainage or requires repetitive maintenance by the City, the City reserves the right to remove the landscape culvert and restore the public drainage to an open ditch.

The permit fee includes the cost to complete the final inspection. Re-inspection fees will be required for each additional inspection.

### **Design Requirements**

Stormwater calculations shall be prepared based on the 25-year design event to determine the drainage area, resulting stormwater flow at the outlet of the landscape culvert, and size of the landscape culvert. A grading plan showing existing elevations, proposed pipe invert elevations, top elevations and spacing of proposed inlets. This shall be prepared and sealed by a licensed Mississippi engineer.

The property owner will be responsible for maintaining the functionality of the culvert. If the City must perform any work on the culvert to maintain functionality, the property owner will be responsible for all costs incurred.

If at any time the culvert(s) become damaged and prevent positive flow of stormwater, the City may remove and dispose of the culverts at the expense of the property owner, or the property owner may correct the problem at his own expense. Should the City remove the culverts due to damage or deterioration, the City will regrade the ditch within the public right-of-way to conform to a trapezoidal channel shape to promote positive drainage. It shall be the responsibility of the property owner to install and/or replace sod in the open ditch.

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### **Material Requirements**

Landscape culverts shall be one of the following materials:

- Reinforced Concrete Pipe ASTM C-76 Class III;
- <sup>1</sup>High Density Polyethylene (HDPE) conforming to the requirements of AASHTO M 294, Type S;
- <sup>1</sup>Poly Vinyl Chloride (PVC) conforming to the requirements of AASHTO Designation M 304.

<sup>1</sup>Pipes shall be installed with a minimum cover of 1'.

All joints shall be wrapped in accordance with the "Storm Drain Pipe Wrap" detail.

See detail sheets for concrete requirements.

The following items shall be furnished prior to scheduling the final inspection:

- Delivery tickets for batched concrete;
- Invoice/receipt showing the type of culvert material purchased;
- If used, Invoice/receipt showing the prepackaged concrete mix purchased.

### **Construction Requirements**

Within ninety (90) days after beginning work, all construction shall be completed.

Culvert joints may not be covered until inspected by the City.

Construction shall be performed in a manner to ensure positive surface drainage, effectiveness of backfill compaction, functionality of the culvert and quality of workmanship performed. If these items are deemed inadequate by the City, the work will be subject to rejection.