

**United States Corps of Engineers (USACE) Galveston District Categorical Permission for work within Harris County following USACE Engineering Circular No. 1165-2-216**

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**Type of Project:** New outfall pipes or boxes and associated extreme event overflow structure (in conjunction with outfall pipe/box)

**Conditions:**

- Follow Harris County Flood Control District (HCFCD) Standard Details for the outfall (Concrete Channel: box and circular pipe Earthen Channel: circular pipe)
- Follow HCFCD Policy Criteria and Procedures Manual (PCPM) with respect to design criteria and no adverse impact criteria

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plan set contains Standard Details for outfalls into USACE channels
3. Drainage Report approved by HCFCD
4. HCFCD approval letter of the drainage report

I, \_\_\_\_\_, have met the aforementioned conditions for this categorical permission and have submitted the required deliverables.

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Harris County Flood Control District, Section 408 Coordinator Approval

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USACE, Section 408 Coordinator Approval

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**Type of Project:** New/Modified/Replacement Bridges (vehicular, bikeway/trail and utility)

**Conditions:**

- Follow Harris County Flood Control District (HCFCF) Standard Details for repairs in the USACE concrete channel
- No change in channel geometry
- Minimum bridge low chord is above the 100-year floodplain elevation
- Follow HCFCF Policy Criteria and Procedures Manual (PCPM) with respect to design criteria and no adverse impact criteria
- Geotechnical report for channel and bridge using USACE requirements. Geotechnical analysis must be completed on the following:
  - Retaining wall and abutment foundation analysis
    - Bearing, sliding, and overturning
  - Slope Stability analysis: Rapid drawdown under long and short term condition
    - \*Use three-stage method for the rapid drawdown slope stability analysis
  - Surcharge loads due to construction methods and routine operations
- Follow HCFCF PCPM for appropriate erosion protection

\* Per USACE suggestion

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plans
3. Drainage Report approved by HCFCF
4. HCFCF approval letter of the drainage report
5. Geotechnical Report approved by HCFCF
6. HCFCF approval letter of geotechnical report
7. Bridge Abutment and Pier Scour Report
8. Bridge Abutment and Pier Design

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**Type of Project:** Trail Projects

**Conditions:**

- Trail is only located between the top of bank and the HCFCO ROW line.
- Top of Bank is defined as last break in elevation of the channel prior to reaching natural ground of the surrounding area.
- No change in channel geometry
- Trail is locate at natural ground
- No amenities such as benches, landscaping or water fountains
- Follow HCFCO Policy Criteria and Procedures Manual (PCPM) with respect to maintenance access

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plans

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**Type of Project:** Utilities Attached to Bridges

**Conditions:**

- Utility is within the hydraulic shadow of the existing bridge beam or deck
- Utility less than 8" in diameter

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plans
3. Structural analysis signed and sealed by a Texas Professional Engineer (PE) stating additional loading does not impact the bridge

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**Type of Project:** Overhead Utilities

**Conditions:**

- No construction between the two top of banks
- Top of Bank is defined as last break in elevation of the channel prior to reaching natural ground of the surrounding area
- No Structures within the channel ROW
- Minimum 16-ft vertical clearance from the highest natural ground within the channel ROW
- Follow HCFCF Policy Criteria and Procedures Manual (PCPM) with respect to maintenance access

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plans

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**Type of Project:** Trees Plantings

**Conditions:**

- Only located between top of bank (15-ft from min) and channel ROW (overbank)
- Top of Bank is defined as last break in elevation of the channel prior to reaching natural ground of the surrounding area
- Depth of 100-year water surface elevation less than one foot above average natural ground
- Velocities in the less than 1 foot/second in the overbank
- Follow HCFCF Policy Criteria and Procedures Manual (PCPM) with respect to maintenance access

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plans with planting plan
3. Drainage memo or letter stating 100-year water surface elevation and velocity are within acceptable limits as stated above

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**Type of Project:** Underground Utilities

**Conditions:**

<b>Boring Method</b>	<b>Depth Below Channel Bottom Surface Requirement</b>	<b>Deliverables for Geotech Required</b>
<b>Bore and Jack</b>	<b>Greater than 20-ft</b>	<b>1 &amp; 2</b>
<b>Open excavation</b>	<b>Less than 10-ft</b>	<b>1 &amp; 2</b>
<b>Auger Boring</b>	<b>Greater than 20-ft</b>	<b>1 &amp; 2</b>

**Deliverables Required:**

1. Brief narrative describing the project and its impact on the ROW
2. Construction Plans
3. Geotechnical Report

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