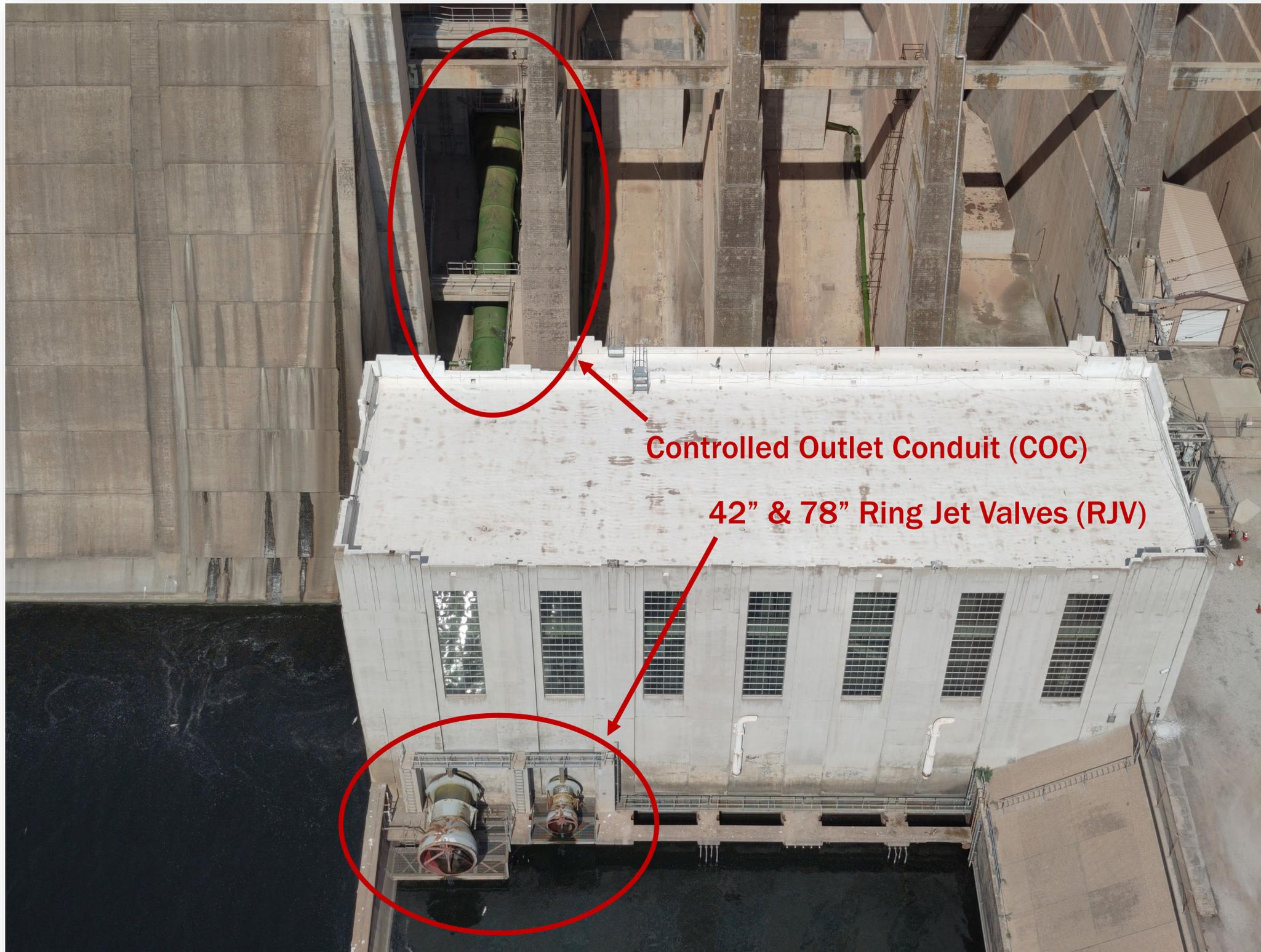




# ***Possum Kingdom COC Recoating and Repairs***

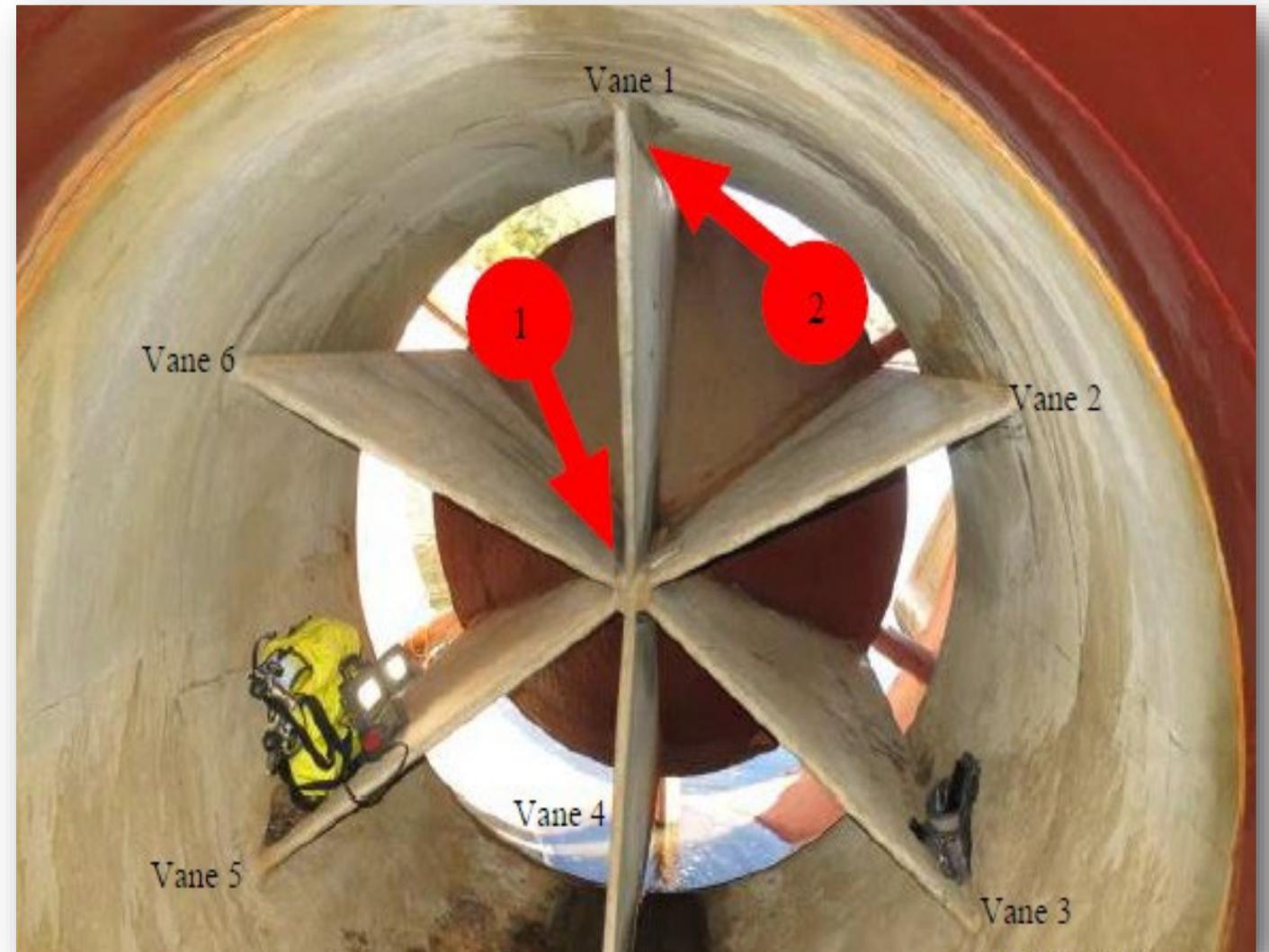
***Presented by  
Blake Kettler  
Chief Planning Officer***







# 78-inch & 42-inch Ring Jet Valves & Stiffening Vanes



Overview of Cracks 1 and 2



# Pipe Coating Corrosion



42" pipe-coating loss measuring 14" across



78" pipe-close-up of coating corrosion & pit corrosion on crown



96" pipe-cluster of coating blister at crown



144" pipe-headgate with corrosion staining on edges of stiffener plates



# ***Selected Engineer & Scope of Work Elements***

**Engineer: Simpson Gumpertz & Heger (SGH)**

## **Scope of Work:**

- **Assess the 78” RJV for weld repairs at internal stiffening vane connections**
- **Review existing coating specifications for the Conduit**
- **Review valve specifications for the RJV**
- **Prepare coating and spot-patching specs for all metal surfaces in the Conduit**
- **Develop repair and coating specs for the RJV (for construction bidding)**
- **Develop valve repair specs for the RJV (for construction bidding)**



# ***Scope of Work Cont.-Bidding, Administration & Construction Services***

## **Proposed Services by SGH (Pending BRA Authorization):**

- **Manage bidding and contract awards for coatings and valve repairs**
- **Provide construction contract administration for both repair contracts**
- **Deliver construction-phase engineering services, including RPR oversight, to ensure contractor compliance with design specifications**



# ***Engineering Tasks & Costs***

<b>Task</b>	<b>Cost</b>
<b>Task One: Initial Investigation</b>	<b>\$116,885</b>
<b>Task Two: Design of Repairs</b>	<b>\$129,681</b>
<b>Task Three: Bidding/Contract Award Services *</b>	<b>\$56,685</b>
<b>Task Four: Construction Contract Administration Services *</b>	<b>\$32,226</b>
<b>Task Five: Construction Phase Engineering Services *</b>	<b>\$87,226</b>
<b>Task Six: Resident Project Representative Services *</b>	<b>\$208,014</b>
<b>TOTAL NOT TO EXCEED FEE:</b>	<b>\$662,400</b>

\*Only performed if authorized by BRA



**“BE IT RESOLVED** that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a contract with Simpson Gumpertz & Heger to perform engineering services for the Possum Kingdom COC Recoating & Repairs Project in an amount not to exceed \$728,000 which includes a 10% contingency for unanticipated conditions.”



Brazos River Authority



**Brazos**

— ★ —  
**RIVER AUTHORITY**