



Building Envelope Consulting
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October 6, 2021

Julie Bastin
 Milwaukee County
 633 West Wisconsin Avenue, Suite 1000
 Milwaukee, WI 53203

**RE: Cost proposal for Combining Concrete Dome's Structure Mesh Inspection project
 With Dome's Glazing Study Task 2 Project (Glazing Mockup)
 Mitchell Park Horticultural Conservatory
 ZS Proposal Number: 218346**

Dear Julie,

To save on overall costs and project efficiencies, Milwaukee County requested a proposal from ZS to combine concrete dome mesh inspection repair project with the currently under contract with ZS glazing study project. The glazing study Task 1 was completed. Task 2 of the Glazing study involves building a mock-up of the proposed solution identified in Task 1 as detailed in ZS' report dated December 6, 2019.

The Concrete Dome's Structure Mesh Inspection project includes hands-on evaluation of the existing protective mesh and observable concrete frame and interior glazing surfaces. The scope includes necessary engineering and contractor access services to inspect all three domes from the interior. In the event that mesh and/or concrete framing repairs are required as a result of the inspection finding, such repairs will be performed under cost allowances as detailed below for each Dome.

The Glazing Study Task 2 project involves building a mock up at a select location at one of the domes that will involve dismantling the existing aluminum framing of the glazing and replacing it with new framing and glazing units as detailed in ZS' report dated December 6, 2019.

The proposed cost summary to perform both projects as a combined project is detailed below:

Item 1. Desert Dome Concrete Structure and Mesh Inspection project:

1.1 ZS Engineering Inspection Services (Inspection and Report)	
AE III = \$140/hr x 120 Hours =	\$16,800
Principal = \$190/hr x 24 Hours =	\$4,560
1.2 Subcontractor Access Assistance by MRI (See attached proposal)	\$56,720
1.3 Owner Allowance (To be used for additional Engineering and Repairs to Concrete/Mesh)	\$25,000

Item 1 (Desert Dome) subTotal: \$103,080

Item 2. Tropical Dome Concrete Structure and Mesh Inspection project:

2.1 ZS Engineering Inspection Services (Inspection and Report)	
AE III = \$140/hr x 120 Hours =	\$16,800
Principal = \$190/hr x 24 Hours =	\$4,560
2.2 Subcontractor Access Assistance by MRI (See attached proposal)	\$37,830
2.3 Owner Allowance (To be used for additional Engineering and Repairs to Concrete/Mesh)	\$25,000

Item 2. (Tropical Dome) subTotal: \$84,190

Item 3. Show Dome Concrete Structure and Mesh Inspection project:

3.1 ZS Engineering Inspection Services (Inspection and Report)	
AE III = \$140/hr x 120 Hours =	\$16,800
Principal = \$190/hr x 24 Hours =	\$4,560
3.2 Subcontractor Access Assistance by MRI (See attached proposal)	\$25,100
3.3 Owner Allowance (To be used for additional Engineering And Repairs to Concrete/Mesh)	\$25,000

Item 3. (Show Dome) subTotal: \$71,460

Item 4. Glazing Study Task 2 – Proposed Solution Mockup

4.1 ZS Contract Task 2 (Mockup) Cost Allowance Credit:	(\$50,000)
4.2 Total Estimated Mockup Construction Cost:	\$88,500
4.3 Additional Design Team Engineering Cost (Engineering, BIM Modeling, Survey, and Administration)	
AE III = \$140/hr x 90 Hours =	\$12,600
Principal = \$190/hr x 40 Hours =	\$7,600

Item 4. (Mockup) subTotal: \$58,700

Total Items 1 through 4 = \$317,430

Thank you for your consideration.

Very truly yours,

ZS LLC



Ziad M. Salameh, Ph.D., P.E.
Principal-In-Charge