

City of Mesa  
Signal Butte WTP Expansion  
Design Review Board Resubmittal  
Mesa CIP No. CP0372

B&V Project 408115  
August 30, 2022

City of Mesa Development Services – Planning Division  
55 N Center Street  
P.O. Box 1466  
Mesa, AZ 85211-1466

SUBJECT: Design Review Resubmittal

To Whom It May Concern,

Attached please find the revised Figures for the Design Review resubmittal application for the Signal Butte Water Treatment Plant Expansion project. Please reference the initial submittal for this project submitted on June 20, 2022 for additional information

We appreciate your review of this submission for this important City project. Please contact me if you have any questions at [CarusoME@bv.com](mailto:CarusoME@bv.com) or 602-381-4407.

Very truly yours,  
BLACK & VEATCH



Mike Caruso, P.E.  
Project Manager  
Black & Veatch

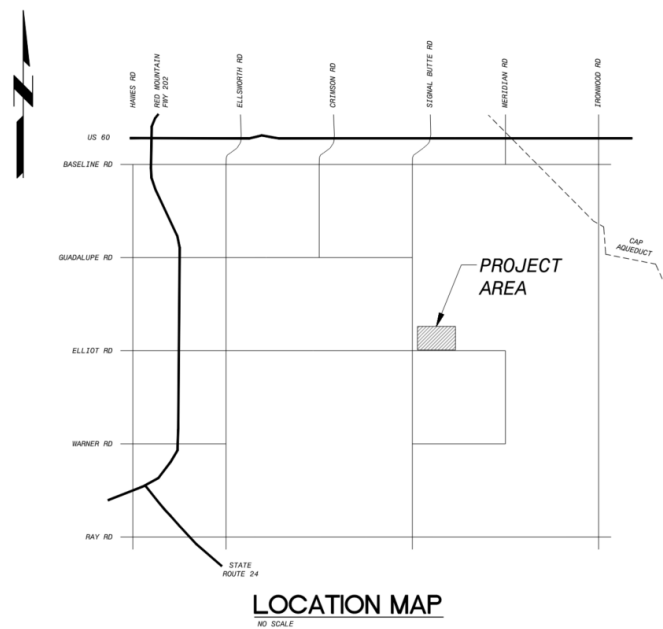
Enclosures:

- Project Narrative
- Vicinity Zoning Plan
- Overall Site Plan
- Preliminary Grading and Drainage Plans
- Preliminary Fire Department Vicinity Access Plan

- Exterior Elevations
- Building Elevation and Sections: color elevations, floor plans, roof plans, and 3D renderings
- Proposed New Building Drawings
- Photographs of Existing Site
- Photometric Study & Proposed Lighting Fixture Cut Sheet

### Project Narrative

The existing City of Mesa Signal Butte Water Treatment Plant (SBWTP) is a 24 million-gallon-per-day (mgd) facility located at 10950 E. Elliot Road (see Location Map below). As part of this project (City Project number CP0372), the SBWTP will be expanded to the planned ultimate nominal capacity of 48 mgd. The perimeter site landscaping will remain unchanged. The original grading and drainage plan was master planned for this expansion and is not anticipated to change.



All new facilities included for the Expansion Project are located within the existing perimeter block wall as shown in Figure 2. The one exception is a new overflow structure integral to the second finished water reservoir (SW corner of the site). The new overflow structure will match the existing reservoir overflow structure as shown in Figure 2. The site is located within a secure City facility that is not accessible to the public unless escorted by City Personnel. The new reservoir is mostly buried, projecting approximately 2 feet above grade.

The filter complex expansion height will match the existing structure with shade canopies and a footprint of 95 ft x 95 ft, sitting 28 ft above grade. A portion of the new Storage Building will be visible from Elliot Road as simulated in Figure 9. The new

Storage Building is proposed to be 18'-10" ft above grade as shown in Figure 2 with a 100 ft x 100 ft footprint.

A new landscaping plan for the Expansion project will not be necessary as the existing landscaping on site will not be modified for the expanded areas of the site. Similarly, a new signage plan will not be necessary as the existing signs on site will not be modified.