

DILKON HEALTH CENTER AND STAFF QUARTERS



DES Project Managers

TVCPA Project Managers

Location

Area Office

Tribe(s) Served

Design Start

Const. Start

Grand Opening

Size

Procurement Method

TVCPA Contract Type: Dilkon Medical Center

TVCPA Contract Type: Dilkon Staff Quarters

Dilkon Staff Quarters Design-Builder

LEED Certification

**Services Programmed for New
Facility:**

CAPT Paul Gagliano, PE / Bruce Kemmet, PE

VanDerrit Poyer (WIHCC) and Ray Bedoni

(WIHCC)

Dilkon AZ

Navajo Area

Navajo Nation: Winslow Indian Health Care
Corporation (WIHCC)

June 2017

November 13, 2018

August 4, 2023

154,000 square feet + 109 Staff Quarters Units

Public Law 93-638 Title V Construction Project
Agreement (TVCPA)

Design-Bid-Build (TVCPA \$130,654,412)

Design-Build (TVCPA \$59,073,138)

JSRA Architects-Greenberg Construction

LEED v4 Gold

Community Health, Diabetes, Mental Health,
NN, Audiology, Dental, Emergency, Eye Care,
Primary Care, Specialty Care, Diagnostic
Imaging, Laboratory, Pharmacy, Rehabilitation
Services, Behavioral Health, Environmental
Health, Health Education, Public Health, and
Wellness Centers.

IHS Dilkon Medical Center: Sustainability Profile

Building owner: Indian Health Service

Location: Dilkon, Arizona

Climate zone: 5B-Dry (Desert/Xeric Shrubland)

Project size: 144,456 square feet

Elevation: 5,885 feet above sea level

Completion date: December 31, 2021



Energy Savings: Estimated to save \$122,710 per year for a percent savings of 35.7% when compared to the ASHRAE 90.1-2013 baseline standard.



Water Savings: Primarily through the use of low flow fixtures with automatic controls, potable water consumption is reduced by more than 39.3% over the 30% LEED baseline threshold.



Innovation: The designed solar photovoltaic (PV) arrays consists of 628W PV panels (949) on the roofs generating 13.2% of the buildings annual electrical load. In terms of reducing greenhouse gases (CO2 emissions) this is equivalent to 53.6 homes' electricity use for one whole year (EPA)!



Sustainable Sites: The designed plant palette is indigenous to the immediate area of the Navajo Nation to promote a healthy and diverse bio-habitat that also provides refuge and foraging for native birds and pollinators. This supports the success and vigor of flowering plants, making ecosystems stronger, more resilient, and enhancing the environment for human populations.



East Elevation—Main Entrance

LEED® Facts	
Dilkon Health Center Dilkon, AZ	
LEED v4 BD+C Healthcare Certification Awarded Month/Year	
Gold	64*
Innovation & Design	6 / 6
Location & Transportation	1 / 9
Sustainable Sites	8 / 9
Water Efficiency	7 / 11
Energy & Atmosphere	24 / 35
Materials & Resources	8 / 19
Indoor Environmental Quality	5 / 16
Regional Priority	4 / 4
* Out of a possible 110 points	



Main Entrance with Covered Car Drop Off

Design Project

"as designed"

1,446
(Metric Tons CO2e)
"green house gases"



Median Property**

"other properties"

3,176
(Metric Tons CO2e)
"green house gases"

78
(Site EUI kBtu/ft2)
"energy consumption at the site"



177
(Site EUI kBtu/ft2)
"other properties energy consumption at their site"

188
(Source EUI kBtu/ft2)
"energy consumption at power plant"



413
(Source EUI kBtu/ft2)
"energy consumption at power plant"

100 Score
"overall design out of 100"

Statement of Energy Design Intent



50 Score
"typical design out of 100"

Statement of Energy Design Intent

** Measure of how well property is performing relative to similar properties in the U.S.

Healing Gardens

A healing garden is provided along the east and north portions of the building. The spaces promote social gathering experiences while others can be more intimate and contemplative within a protected safe environment. Native vegetation including shade trees enhance the space and helps provide a stress free environment in a natural setting.

