Ina Road TI CMAR
Project Overview

August 12, 2020

Dan Casmer, ADOT, Senior Resident Engineer
Kevin Thornton, Psomas, Project Manager
Ryan Cannon, Sundt Construction, Project Manager
Project Information

- Delivery Method – Construction Manager at Risk (CMAR)
- Contractor – Sundt/Kiewit, A Joint Venture
- Contract Amount – $124,248,793.59
- Contract Time – 230 Working Days (GMP 1)
  885 Working Days (GMP 2)
- Contract Time Started – 7/13/2016 (GMP 1)
  1/17/2017 (GMP 2)
- Contract Time Ended – 6/20/2019
Project Design Team

- Psomas (Prime Design Firm)
- Kimley-Horn
- POINT Engineers
- SCE Engineering
- Gannett Fleming
- Premier Engineering Corporation
- Wheat Design Group
Project Location
Project Improvements

Project improvements include:

- Ina Road overpass over I-10 and the Union Pacific Railroad
- I-10 widened to accommodate up to 4 lanes in each direction; will be striped for 3 lanes until further corridor widening is complete:
  - Ruthrauff TI – Under Construction
  - I-10, Ina to Ruthrauff – RFQ out
- Ina Road widened to two lanes in each direction with center median and sidewalks from I-10 to Silverbell Road
- Architectural treatments and landscaping
- Drainage improvements
Existing Conditions
Existing Conditions (Ina Rd WB)
Existing Conditions (Ina Rd EB)
Existing Conditions (Ina Rd EB)

Photo Credit: Peter Kresan - 1984
Why CMAR as Delivery Method?

- Unique Issues and Challenges
- Constructability Reviews during the Design Process (Cost Savings)
- Multiple Stakeholders on Project
  - UPRR
  - Town of Marana
  - Tucson Water
  - Pima County Regional Wastewater Reclamation Department.
  - Local Businesses
Unique Issues and Challenges

- Not all R.O.W. acquired prior to construction
- Archaeological survey not completed prior to construction
- Utilities relocated concurrently with construction
- Unsuitable/saturated material
- Effluent discharge into Santa Cruz River
Saturated Soils
Saturated Soils
Saturated Soils
Saturated Soils
- Straddle Bents at Santa Cruz River Bridge.
- Grade Control Structure.
- Elimination of Bridge at Ina Rd and Camino De Oeste.
Straddle Bents at Santa Cruz River Bridge
Grade Control Structure
Elimination of Bridge
Multiple Stakeholders

- Town of Marana
- UPRR
- Tucson Water
- Pima County Wastewater Reclamation Department
- Arizona Game and Fish
- Local Businesses
- Utility Providers
**Test Hole #** 306  
**Date of Excavation** 4/13/15  
**Project #** H8470 01D  
**Alignment** Ina CST CL  
**Location** Ina Rd eastbound shoulder, approximately 1000 ft east of Silverbell Rd.

**SITE BENCHMARK**  
- **BM =** NN 7 1990 Pima County  
- **ELEVATION =** 2221.177

**CROSS SECTION - NOT TO SCALE**  
- **Facing** East  
- **Surface Elevation** 2166.272  
- **Top Elevation** 2162.27  
- **Bottom Elevation** 2161.63

**RIBBON COLOR** Pink  
- **COORDINATES** Northing 487553.0646, Easting 956932.3031  
- **STATIONING** Station 210+50.82, Offset 50.2 RT  
- **PAVING THICKNESS** N/A  
- **PAVING TYPE** AB  
- **SOIL CONDITION** Dirt

**COMMENTS**  
Found 4-4” conduit, 2 top and 2 bottom, located 1 foot north of survey pin.

**PREPARED BY** Ryan Cannon  
**CHECKED BY**
Mexican Free-tailed Bat
Arizona Fish & Game (Bat Hotels)
Business Access (Ina Rd, East of I-10)
Business Access (Ina Rd, East of I-10)
Construction Phasing – Phase 1B (I-10 EB)
Construction Phasing – Phase 1B (I-10 EB)
Construction Phasing – Phase 1B (I-10 EB)
Construction Phasing – Phase 2 (I-10 WB)
Construction Phasing – Phase 3
Construction Phasing – Phase 3
Construction Phasing – Phase 3
Construction Phasing – Phase 1B (SCRB - EB)
Construction Phasing – Phase 1B (SCRB)
Construction Phasing – Phase 1B (SCRB)
Construction Phasing – Phase 2 (SCRB)
Construction Phasing – Phase 2 (SCRB)
Construction Phasing – Phase 2 (SCRB)
May 2019 (Ina Rd WB)
May 2019 (Ina Rd EB)
Aesthetics
Questions?

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