DESIGN REVIEW BOARD HEARING

TEP POWER POLES ON SILVERBELL ROAD DRB-21-18 / C10-21-08

OCTOBER 1, 2021

PRESENTED BY:

KEVIN O'BRIEN - TEP ENVIRONMENTAL LAND USE PLANNER



AGENDA

- BACKGROUND INFORMATION WHY THIS PROJECT IS NEEDED
- SCENIC ROUTE INFORMATION CITY OF TUCSON UNIFIED DEVELOPMENT CODE (UDC)
- OVERVIEW OF THE PROJECT AREA AND SCOPE OF WORK PLANNED WORK
- DESIGN ELEMENTS MATERIALS AND LANDSCAPING PLAN



Tucson Electric Power (TEP) for City of Tucson Variance Process

BACKGROUND:

Tucson Electric Power (TEP) is planning to relocate overhead power lines and other equipment in support of a road-widening and transportation improvement project along North Silverbell Road.

The transportation project is being designed and constructed in three phases:

- Phase 1 Grant Road to Goret Road [Completed]
- Phase 2 Goret Road to El Camino del Cerro [In Design]
- Phase 3 El Camino del Cerro to Ina Road [Future]

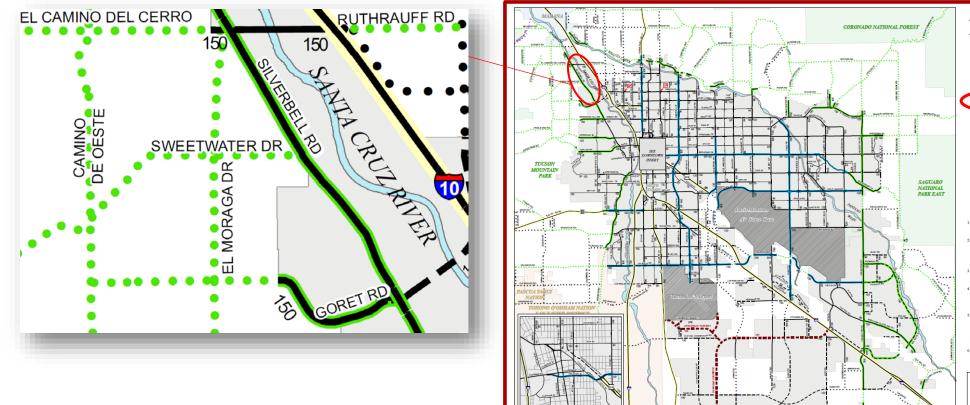
The current focus is Phase 2, where TEP needs to complete electric utility scope of work before the transportation project can proceed.

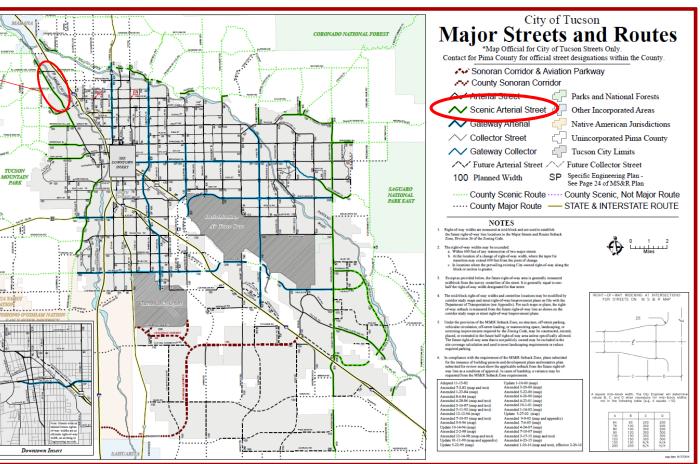




Tucson Electric Power (TEP) for City of Tucson Variance Process

SILVERBELL ROAD IS CLASSIFIED AS A SCENIC ARTERIAL STREET BY THE CITY OF TUCSON





Tucson Electric Power (TEP) for City of Tucson Variance Process

ASSOCIATED SECTIONS OF THE CITY OF TUCSON UNIFIED DEVELOPMENT CODE (UDC) PERTAINING TO THE SCENIC CORRIDOR ZONE ARE AS FOLLOWS:

UDC 5.3 SCENIC CORRIDOR ZONE

UDC 5.3.9 UTILITIES

5.3.9 (A) ALL NEW UTILITIES FOR DEVELOPMENT ON PRIVATE PROPERTY AND ON PUBLIC RIGHT-OF-WAY ALONG SCENIC ROUTES SHALL BE UNDERGROUND.

5.3.9 (B) UPGRADES AND REINFORCEMENTS OF EXISTING OVERHEAD FACILITIES IS ALLOWED TO THE EXTENT THAT THE TOTAL NUMBER OF ELECTRICAL CIRCUITS OR COMMUNICATION CABLES IS NOT INCREASED.



Overview Slide 1 of 2 SCOPE of WORK: TEP Power Line Alignment

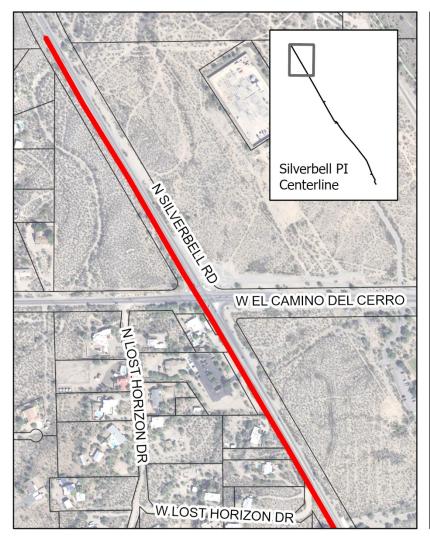
Project Power Lines

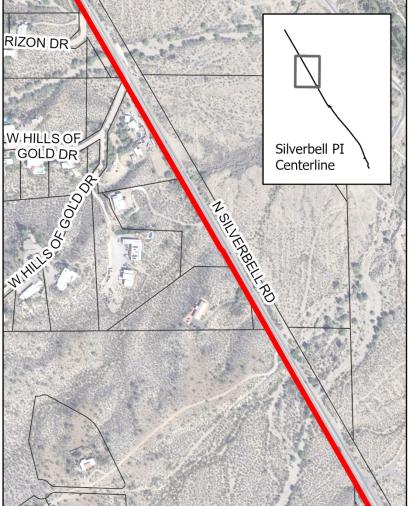
Existing Rebuild

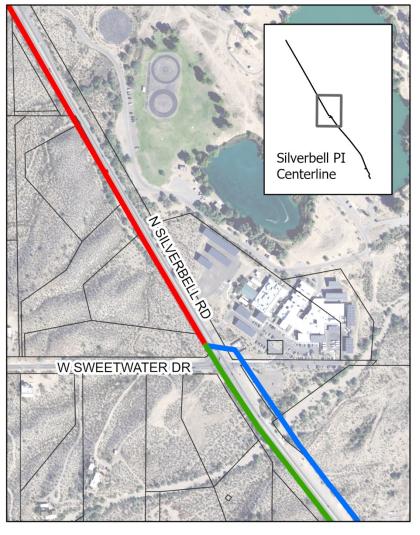


Existing Remove









Overview Slide 2 of 2 SCOPE of WORK: TEP Power Line Alignment

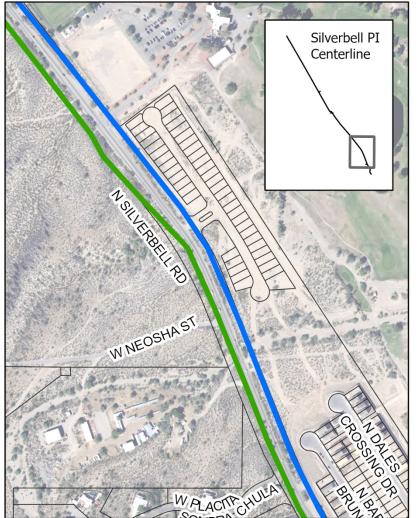
Project Power Lines

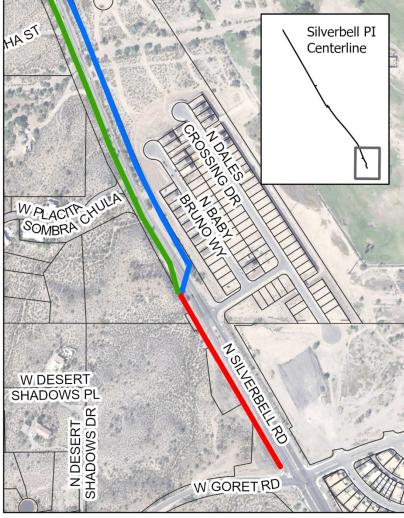
Existing
Relocation

Existing Remove









1. North of El Camino del Cerro – looking Southwesterly on Silverbell Road

VISUAL SIMULATIONS





CURRENT

DESIGNED

2. North of Sweetwater Drive – looking generally South on Silverbell

VISUAL SIMULATIONS





CURRENT

DESIGNED

VISUAL SIMULATIONS





CURRENT

DESIGNED

4. Near Kippy Trail (north of Goret Road) – looking North on Silverbell

VISUAL SIMULATIONS





CURRENT

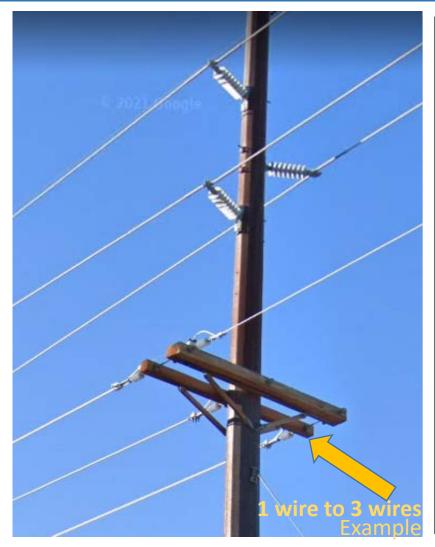
DESIGNED

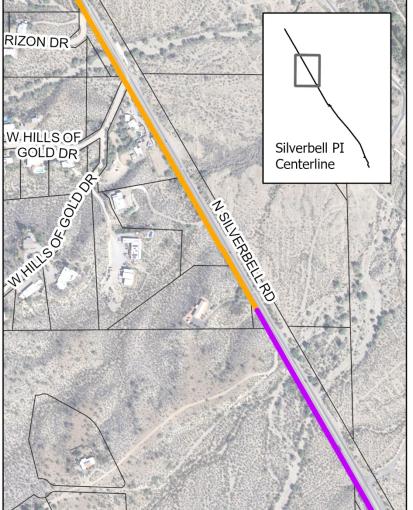
Project Scope of Work (Distribution) Overview Slide 1 of 2

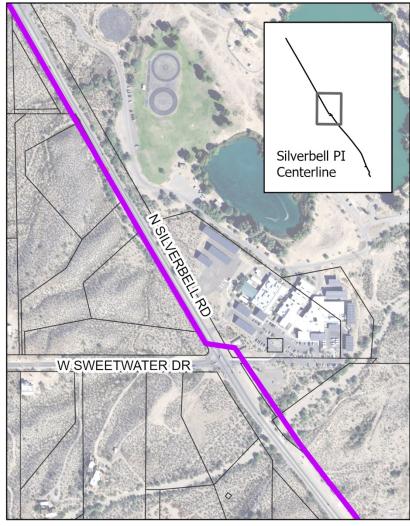
Distribution Power Lines
One wire to

Three Wires







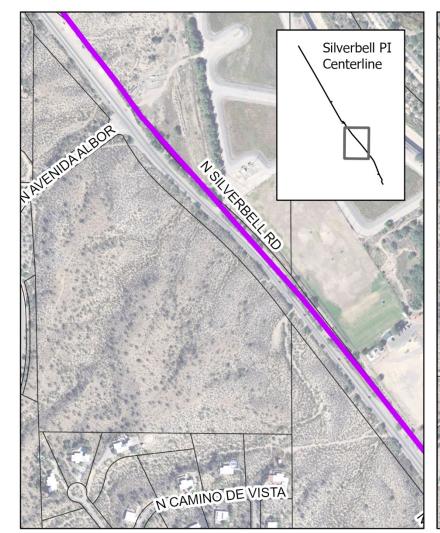


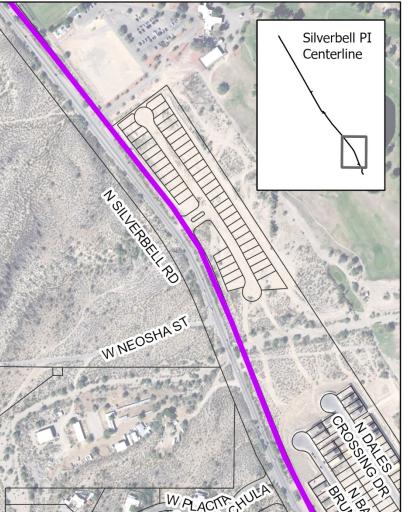
Project Scope of Work (Distribution) Overview Slide 2 of 2

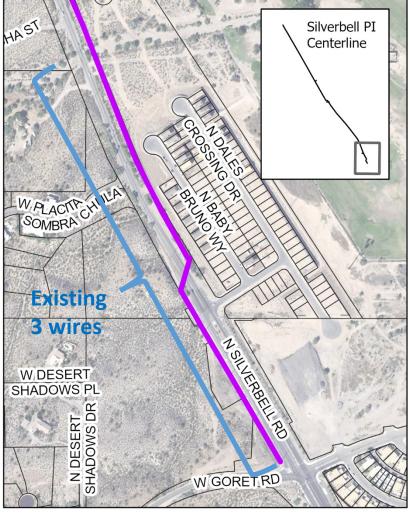
Distribution Power Lines
One wire to

Three Wires









Constraints to Undergrounding Electric Utilities along Silverbell Road

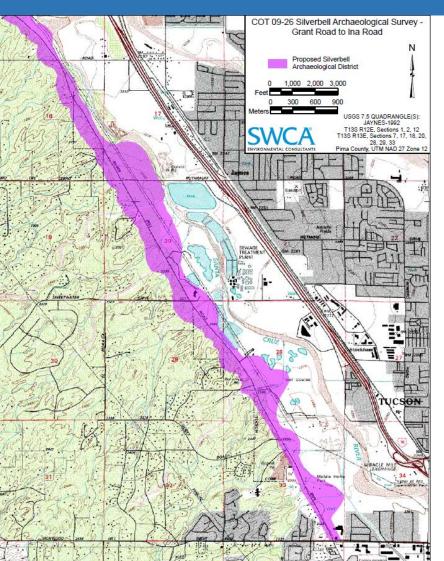
Physical circumstances limit technical feasibility of underground construction

1) SIGNIFICANT ARCHAEOLOGICAL RESOURCES

2) SANTA CRUZ RIVER FLOODPLAIN AND TRIBUTARY WASHES



Tucson Electric Power (TEP) for City of Tucson Variance Process



Silverbell Road is within an archaeologically rich area with a high density of sites, as evidenced by the Proposed Silverbell Archaeological District seen in purple. (State Historic Preservation Office, 2016)



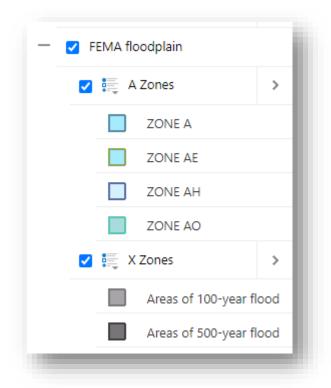
Cultural Resource Information

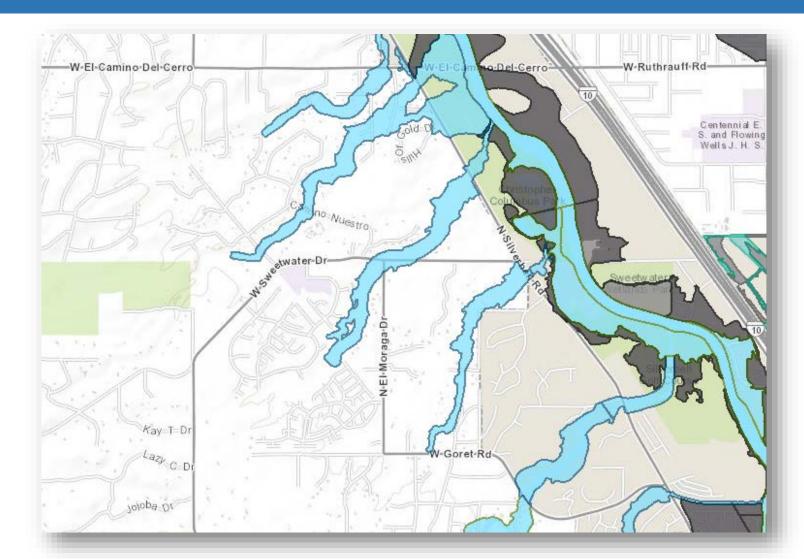
- The archaeological record shows continuous, important Early Agricultural period sites along Silverbell Road within the Santa Cruz River floodplain
- Artifacts and burials have a very high likelihood of presence, which poses risks to the resources and the project
- TEP and project stakeholders have designed an overhead utility along Silverbell Road to avoid unnecessary impacts to valuable archeological resources



Floodplain

FLOODPLAIN IN PROJECT AREA





EXISTING CONDITIONS

POLES ARE A MIX OF DIFFERENT MATERIAL TYPES (E.G., WOOD AND STEEL)

DIFFERENT POLES FROM DIFFERENT TIME PERIODS

VARYING CONFIGURATIONS OF EQUIPMENT







PROPOSED MATERIALS

WEATHERING STEEL POLE STRUCTURES

Material is consistent with material used in art installations along Tucson rights of way, for example







LANDSCAPING

TEP WORKING COLLABORATIVELY WITH CITY OF TUCSON PER LANDSCAPING PLAN

WE HAVE THE DATA AND PLANS FROM CITY OF TUCSON/MCGANN & ASSOC., AND HAVE RESOURCES ENGAGED

McGann & Associates Inc. Landscape Architects and Planners

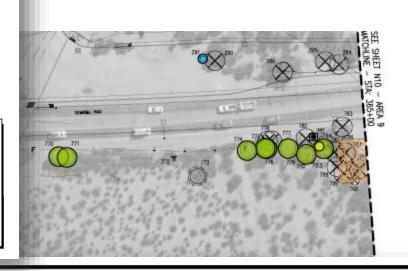
6814 North Oracle Road, Suite 210 Tucson, Arizona 85704 Telephone: (520) 297-9540 Fax: (520) 297-9545

Civil Engineers

EPS GROUP 8710 N. THORNYDALE ROAD STE 140 TUCSON, AZ 85742

CITY OF TUCSON DEPARTMENT OF TRANSPORTATION / ENGINEERING DIVISION

SILVERBELL ROAD - PHASE 2
EL CAMINO DEL CERRO TO GORET ROAD
IMPROVEMENT PLANS
NATIVE PLANT PRESERVATION PLAN



CONSTRUCTION AND PLANTED WITHIN THE PROJECT LIMIT AT THE END OF CONSTRUCTION. SEE LANDSCAPE PLANS FOR FINAL LOCATIONS.

PLANT	PRESERVE IN PLACE	TRANSPLANT ON-SITE	PEMOVE PROM SITE
TREE			\otimes
SHRUB	0	0	8
CACTUS	*		
	TREE 770	TREE 292	
	771	SHRUB	
	775	291	

DEPARTMENT OF TRANSPORTATION/ENGINEERING





SILVERBELL ROAD
EL CAMINO DEL CERRO TO GORET ROAD
N11 NATIVE PLANT PRESERVATION PLAN – AREA 10

CLOSING

TEP WORKING WITH THE CITY OF TUCSON FOR SUCCESS OF THE SILVERBELL ROAD PROJECT

- TEP and the City have worked collaboratively to develop an integrated project plan
- Planned work will greatly improve the safety, functionality, and aesthetics of Silverbell Road
- Electric utility infrastructure is integrated with transportation design for a more cohesive, consistent, and modernized Silverbell Road corridor





