RE: Environmental Screening Results Memorandum

The proposed Valencia Road, Mountain Eagle Drive to Mark Road widening project is a two-phase project. The western phase extends from approximately 0.5 mile west of Mountain Eagle Drive to Wade Road and would be prepared to completion of a Design Concept Report (15% design level). No construction date is currently scheduled for this phase. The eastern phase extends from Wade Road to Mark Road, and construction is currently planned for spring of 2013. The project is funded by the Regional Transportation Authority, Pima County, and federal funds.

The environmental screening documents were prepared by Catherine Bolm of HDR Engineering, Inc., and address both phases of the project; however, resources identified within the project area are presented by the phase in which they are located. As part of the environmental screening process, a site visit was conducted on 1/7/2011 by Catherine Bolm, to determine existing conditions. Additional sources used in the preparation of the environmental screening documents include the following:

- Project scope of work dated 11/26/2010
- Project components were provided by Bob Brittain of HDR Engineering, Inc.
- U.S. Fish and Wildlife Service list of species for Pima County dated 12/13/2010
- Arizona Native Plant Act (A.R.S. §309-1 et. al) list of protected plants
- Arizona Archaeological Site and Survey Database (AZSITE) accessed 1/27/2011
- Mark Brodbeck of HDR Engineering, Inc. conducted a site visit of cultural resources on 3/7/2011
- Pima County online list of Priority Cultural Resources accessed 3/9/2011
• Roger Anyon of the Pima County Office of Cultural Resources and Historic Preservation verified the findings of the Pima County online list of Priority Cultural Resources on 3/9/2011

• Quinn Castro of the Pima County Department of Transportation provided average daily traffic volumes for existing conditions and projected conditions for the year 2030 on 3/9/2011

A draft Preliminary Initial Site Assessment dated March 2011 was prepared by HDR Engineering, Inc. in conjunction with the preparation of the environmental screening documents. The findings presented in the assessment indicated no hazardous materials concerns, although an operating service station is adjacent to the eastern phase project limits. This station features underground storage; however, it is located on Pascua Yaqui Tribal trust land and is not included in the Arizona Department of Environmental Quality or EDR databases. The Tribe will be contacted for their records data on the station and whether any hazardous wastes or substances in the past have been generated, treated, stored, released, discarded or disposed of on site, or whether any such wastes are not accumulated on site. No test borings have been performed to date.

Approximately 17 washes and drainages cross the project area. Of the washes, four potentially jurisdictional washes were identified within the western phase of the project, and four potentially jurisdictional washes were identified within the eastern phase of the project. Both phases of the proposed project would affect jurisdictional waters of the United States (U.S.). A preliminary jurisdictional delineation will be prepared for the eastern phase of the project and submitted to the U.S. Army Corps of Engineers for approval. The level of 404 permitting will be determined at a later date.

Nine washes within the project area feature Pima County protected Regulated Riparian Habitat, as designated by the Pima County Board of Supervisors. The Regulated Riparian Habitat in five of the washes is designated Important Riparian Area under the Conservation Land System. Construction of the eastern phase would impact Xeroriparian B habitat and Important Riparian Areas with underlying classification of Hydro/mesoriparian or mesoriparian H and Xeroriparian B. Impacts to these areas would require coordination with the Pima County Regional Flood Control District to obtain a Regional Flood Control Permit. Mitigation for impacts to Regulated Riparian Habitat will include on-site mitigation included in the landscape plans and off-site mitigation in the form of in-lieufee.

The project area is located within the known range of the federally endangered Pima pineapple cactus (Coryphantha scheeri var. robustispina), and provides suitable habitat for the federally recognized species of concern Western burrowing owl (Athene cunicularia hypugaea). Plant species protected under the Arizona Native Plant Act (A.R.S. §309-1 et. al) occur within the project area. Impacts to these species will be evaluated in a Biological Evaluation prepared for the eastern phase of the project, which will include coordination with the U.S. Fish and Wildlife Service (USFWS) and Arizona Game and Fish Department to determine species-specific concerns and appropriate mitigation measures. The project area is within the area covered by the Pima County Multi-species Conservation Plan (MSCP) currently under USFWS review for a Section 10 permit. The Biological Evaluation prepared for this project will address Pima County MSCP species.

A preliminary records search identified two cultural resources are located in the project area—one is located in the western phase, and one is located in the eastern phase—and would be impacted by construction of the project. Neither site is included as a Pima County Priority Cultural Resource. A cultural report will be prepared for the eastern phase to identify impacts to the site located within the area of effect and to make project-specific recommendations.
The project area includes land under jurisdiction of the Bureau of Land Management, Arizona State Land Department and the Pascua Yaqui Tribe. The eastern phase would involve these jurisdictions; therefore, coordination with these agencies would be required to identify project-specific concerns.

The following project components will be determined at a later date:

- the project is not anticipating additional right-of-way to be acquired; however, drainage easements and temporary construction easements will be necessary and the amount is currently unknown.
- left and right turn lanes will be added at several intersections along the project corridor; however, the total number of new turn lanes will be determined once the traffic report has been completed.
- utility facilities are located in the project area; however it is currently unknown which utilities will relocate their facilities for the project and whether there would be a temporary disconnection of service.
- there is a possibility of utility upgrades in the vicinity; however, the project scope does not currently include utility upgrades.

A Design Concept Report will be prepared as a part of the technical documentation for this project.

Attachments:

- Environmental Screening Checklist, April 2011
- Environmental Screening Matrix, April 2011
INTRODUCTORY INFORMATION

Project Identification
- Project Name: Valencia Road, Mountain Eagle Drive to Mark Road
- Pima County Project Manager: Paul Bennett

Project Location and Limits
- Location of project within Pima County: Sections 8, 9, 16 and 17 of Township 15 South, Range 12 East of the Brown Mountain Quadrangle and Sections 9, 10, 11, 12, 13, 14, 15, 16 of Township 15 South, Range 12 East of the Cat Mountain Quadrangle
- Limits of project:
  - From end to end: approximately 0.5 mile west of Eagle Mountain Drive to approximately 0.4 mile west of Mark Road
  - From side to side: right-of-way varies from 150 feet to 200 feet wide

Funding Source
- Funding source anticipated for use in construction project?
  - County funding: Y__x__ N____
  - Federal funding: Y__x__ N____
  - Other: The project will be partially funded by the Regional Transportation Authority.
Source: project team

Primary Project Purpose
- Primary purpose of project:
  - Modernize roadway (e.g., resurface, restore, rehabilitate, reconstruct, add shoulders, or add auxiliary lanes): Y__x__ N____
  - Increase capacity: Y__x__ N____
  - Add bicycle lanes: Y__x__ N____ (lanes are on-street multi-use lanes)
  - Improve safety: Y__x__ N____
  - Other:
Source: project scope of work dated 11/26/2010
Existing Conditions within Project Limits

- Roadway specifications?
  - Right-of-way: 150–200 feet
  - Pavement width: varies
  - Number of through lanes in each direction: 1

- Number of turning lanes?
  - Dedicated right-turn lanes: __4__

  Valencia Road at:
  - **Mountain Eagle Drive to Wade Road (2)**
    - Reed Bunting Drive (northbound)
    - Bullfinch Drive (northbound)
  - **Wade Road to Mark Road (2)**
    - Camino Verde
    - middle and east entrances to Sol Casino

  - Dedicated left-turn lanes: __4__

  Valencia Road at:
  - **Mountain Eagle Drive to Wade Road (1)**
    - Vahalla Road
  - **Wade Road to Mark Road (3)**
    - Wade Road
    - Camino Verde
    - middle and east entrances to Sol Casino

Continuous left-turn along Valencia Road between the west entrance to Sol Casino and Mark Road.
• Existing intersections?

  Number of signalized intersections: __1__

  Wade Road to Mark Road:
  • Valencia Road at Camino Verde

  Number of unsignalized intersections: __16__

  Valencia Road at:
  Mountain Eagle Drive to Wade Road (11)  Wade Road to Mark Road (5)
  • Reed Bunting Drive  • Wade Road
  • Via Diego de Riveria  • South Arrow
  • Bullfinch Drive  • Mardick Avenue
  • De Concini Drive  • Viviana Road
  • Mountain Eagle Drive  • Ignacio Baumea Road
  • Eagles Talon Parkway
  • Vahalla Road
  • Iberia Avenue
  • Victor Drive
  • Star Ridge Place
  • Star Diamond Place

• Existing parking (e.g., on-street)?  Y____ N__x__

• Existing bicycle lanes:  Y____ N__x__
  No designated bicycle route, however a westbound bike designated through- lane is on Valencia Road at the intersection with Camino Verde.

• Existing sidewalk:  Y__x__ N____
  • Northwest and southeast corners of Valencia Road intersection with Camino Verde.
  • Along the south side of Valencia Road, from the east entrance to Sol Casino to Mark Road.

• Existing transit stops:  Y__x__ N____
  Sol Casino has a Park&Ride lot.
  Transit stop on Valencia Road, west of Mark Road is outside of project limits.

• Other:

  Note: If no existing roadway, describe site conditions (e.g., undeveloped land, etc.)

**Project Components**

- Anticipated specifications of the project?

  *Amount of additional right-of-way to be acquired:*
  
  Under 1 acre __x__ 1-5 acres ____ 5-10 acres ____ Over 10 acres ____

  *Note:* No new right-of-way is anticipated; however temporary construction easements will be needed for driveway alignments and drainage easements will be needed for work within the non-jurisdictional and jurisdictional drainages and washes. The acreage of temporary construction easements and drainage easements needed for the project is unknown.

  *Change in the vertical or horizontal alignment:*  Y __x__ N ____

  *New alignment:*  Y ____ N __x__

  *Pavement width to be added:*  24-36 feet__

  *Number of through lanes to be added:*  __2__

  *Number of turn lanes to be added:*  __unknown__

  *Right-turn lanes:*  unknown (5 currently anticipated) ___

  *Left-turn lanes:*  unknown (5 currently anticipated) ___

  *Any associated parking (e.g., on-street):*  Y ____ N __x__

  *Bicycle lanes to be added:*  Y __x__ N ____ (lanes are on-street multi-use lanes)

  *Sidewalk to be added:*  Y __x__ N ____

  *Landscaping to be added:*  Y __x__ N ____

- Number of intersections to be signalized: __1__

- Other:


**Phasing**

- Is the project:

  *A portion or phase of a unified development plan?*  Y __x__ N ____

  *Included in the Pima Association of Governments 2040 Regional Transportation Plan, and the Southwest Infrastructure Development Plan.*

  *One of a series of projects that may result in a cumulative set of environmental impacts on an identifiable area?*  Y __x__ N ____

  Source: Pima Association of Governments 2040 Regional Transportation Plan and the Southwest Infrastructure Development Plan.
Traffic:

- Existing average daily traffic (ADT) in the project area?
  
  **Street:** Valencia Road from Mountain Eagle Drive to Wade Road  
  **ADT:** 8,582
  
  **Street:** Valencia Road from Wade Road to Mark Road  
  **ADT:** 12,388

- Projected ADT in the project area for the build year?
  
  **Street:** Valencia Road from Mountain Eagle Drive to Wade Road  
  **ADT:** 25,966
  
  **Street:** Valencia Road from Wade Road to Mark Road  
  **ADT:** 26,100

Source: personal communication with Quinn Castro of Pima County Department of Transportation on 3/9/2011

Land Uses

- Existing adjacent land uses? Check all that apply and circle primary uses.

  **Valencia Road from Mountain Eagle Drive to Wade Road:**
  
  Commercial (e.g., retail businesses, service businesses): Y___ N __x__
  
  Institutional (e.g., schools, hospitals, social services agencies): Y___ N __x__
  
  Residential (e.g., single family houses, apartments, townhouses): Y__x__ N ___
  
  Vacant lots: Y__x__ N ___
  
  Industrial (e.g., light industry, heavy industry): Y___ N __x__
  
  Recreational (e.g., parks, sports fields): Y___ N __x__

  **Valencia Road from Wade Road to Mark Road:**
  
  Commercial (e.g., retail businesses, service businesses): Y__x__ N ___
  
  Institutional (e.g., schools, hospitals, social services agencies): Y___ N __x__
  
  Residential (e.g., single family houses, apartments, townhouses): Y__x__ N ___
  
  Vacant lots: Y__x__ N ___
  
  Industrial (e.g., light industry, heavy industry): Y___ N __x__
  
  Recreational (e.g., parks, sports fields): Y___ N __x__

Property Ownership

- Existing land ownership:

  Valencia Road from Mountain Eagle Drive to Wade Road:
  
  Majority public: Y____ N __x__
  
  Majority private: Y__x__ N ___
  
  About evenly divided between public and private: Y___ N ____
  
  Other:

  Valencia Road from Wade Road to Mark Road:
  
  Majority public: Y____ N __x__
  
  Majority private: Y____ N __x__
  
  About evenly divided between public and private: Y__x__ N ___
  
  Other:

ENVIRONMENTAL CATEGORIES

Drainage

- Will any storm water drain from the project discharge into detention or retentions basins on site? Y___ N ____
  
  Source: personal communication with Bob Brittain of HDR Engineering, Inc. on 3/10/2011

Section 401/404

- Are any culverts likely to be installed, replaced, or extended? Y___ N ____
- Are there any bridges being upgraded, extended, or replaced? Y___ N ____
- Is there any bank protection required in the construction of this project? Y___ N ____
- Are there any wetlands within the project area? Y___ N ____
- Are there any riparian areas within the project vicinity? Y___ N ____

  Riparian areas are Pima County Regulated Riparian Habitat under Pima County Ordinance 2005 FC-2, Title 16 Chapter 16.30.

- Is it anticipated that there will be any discharge of dredged or fill material into “waters of the United States”? Y___ N ____
  

Floodplain

- Is the project area within a 100-year floodplain delineated on the Federal Emergency Management Agency Flood Insurance Rate Map? Y___ N ____ If “yes,” will the project substantially modify the topography of the floodplain either by placement or removal of materials within the floodplain? Y___ N ____ to be determined
  
Biological Resources

- Are there listed threatened, endangered, proposed, and/or candidate species likely to be found in the project vicinity?  Y__x__ N ____
- Are listed special status species likely to be found in the project vicinity?  Y__x___ N ____
- Are protected native plants likely to be found in the project vicinity?  Y__x__ N ____
- Are construction activities anticipated to remove/disturb any vegetation?  Y__x__ N ____
- Is the project within the Conservation Land System?  Y__x__ N ____

The project contains Important Riparian Area protected under the Pima County Ordinance 2005 FC-2, Title 16 Chapter 16.30 as Regulated Riparian Habitat.

- Is the project along a designated Scenic Route?  Y_____ N __x__

Note: The project area is within the area covered by the Pima County Multi-species Conservation Plan (MSCP) currently under USFWS review for a Section 10 permit. The Biological Evaluation prepared for this project will address Pima County MSCP species.


Air Quality

- Is the project in an: 
  - Attainment area?  Y__x__ N ____
  - Nonattainment area?  Y____ N __x__ If “yes,” what are the pollutants of concern?
  - Maintenance area?  Y__x__ N ____ If “yes,” what are the pollutants of concern? carbon monoxide (CO)

Source: Statewide Air Quality map at <http://www.azdot.gov/highways/EPG/EPG_common/PDF/Air/statewide_air_quality_map.pdf> accessed on 1/5/2011

Noise

- Are there sensitive noise receptors in the area?  Y__x__ N ____ If “yes,” identify type of noise receptors and briefly describe:
  - Residences:  __x__
    The Valencia Road from Mountain Eagle Drive to Wade Road segment features moderately dense residential neighborhoods. The Valencia Road from Wade Road to Mark Road segment features intermittent residential structures set at irregular distances from the Valencia Road edge of pavement.
  - Schools:  ____
  - Hospitals:  ____
  - Churches:  ____
Parks: ____

Other:

- When the project is completed and used as anticipated, is it likely to contribute to any exceedances of noise quality standards. Y____ N __x__


Utilities

- Will the construction include any utility involvement? Y__x__ N ____ If “yes,” what kind of work is anticipated?

  Utility relocation:
  - 12” Tucson Water pipe located at Valencia Road from Wade Road to Mark Road
  - Southwest Gas facilities likely to be relocated
  - Qwest facilities likely to be relocated
  - Comcast facilities likely to be relocated
  - Tucson Electric Power poles to be relocated at Valencia Road from Wade Road to Mark Road

  Temporary disconnection of service: _unknown_

  Utility replacement: _unknown_

- Are there any scheduled plans for utility upgrades in the vicinity that are related to the project? Y_____ N __x__

Source: personal communication with Bob Brittan of HDR Engineering, Inc. on 3/10/2011

Hazardous Materials

- Is it likely that any hazardous wastes or hazardous substances in the past have been generated, treated, stored, released, discarded or disposed of on site or are any such wastes now accumulated on site? Y___x__ N ____ Don’t know ____

- Have any test borings been performed? Y____ N __x__ If “yes,” were any wastes discovered on the premises in the course of the test borings or excavation work for the project? Y____ N ____

Other: An active Chevron Station is located adjacent to the Wade Road to Mark Road segment of the project on Pasqua Yaqui Tribal Trust land. It was not listed in the EDR report or ADEQ reports; however, the site is anticipated to contain USTs, which may contain a hazardous material of concern. The tribe will be contacted for their records data on the station. Minimal ground disturbance is planned in the vicinity of the site; therefore, further investigation isn’t recommended. If additional acquisition is required in the vicinity of the Chevron Station, a site-specific Phase I report is recommended.

Source: Preliminary Initial Site Assessment dated March 2011.
Historic Preservation

- Are there any cultural resources (archaeological or historic) in the vicinity of the project area that are listed on or eligible for the National Register of Historic Places? Y _x__ N ____
- Are any of these sites considered “Priority Cultural Resources?” Y ____ N __x__
- If the answer is “yes,” to either or both the questions above, please list the resource(s)/site(s):

  **Valencia Road from Mountain Eagle Drive to Wade Road:**
  
  *AZ AA:16:458 (ASM)* – Recorded by SWCA, Inc. in 2002, this site contains both prehistoric and historic components. The prehistoric component consists of an artifact scatter. The historic component includes a house foundation, tank, well, and an associated artifact scatter. Additionally, a thermal feature, rock alignment, and deflated rock pile were recorded; it is unclear from the site card which component these features are affiliated with. The site was recommended eligible for National Register listing. A data recovery plan was prepared for the site for construction of the current residential development in the area, and was approved by the State Historic Preservation Office in a letter dated July 24, 2003; therefore, it is expected this site is no longer present.

  **Valencia Road from Wade Road to Mark Road:**
  
  *AZ AA:16:380 (ASM)* – This is a Hohokam artifact scatter with two loci and associated thermal features that was recorded by Archaeological Consulting Services, Ltd., in 1993. The National Register eligibility of this site has not been evaluated but based on the description, it may be eligible.

- Of those properties listed or eligible, are any located near enough to the project to be affected by the project location, construction, or anticipated future traffic? Y _x__ N ____
  
  If “yes,” please specify the properties and very briefly the anticipated effect.

  **Archaeological sites:**

  Portions of the two archaeological sites, *AZ AA:16:380 (ASM)* and *AZ AA:16:458 (ASM)* may be within the area of potential effects. If located within the area of potential effect, these sites would be directly affected by project construction. Widening of the road and the addition of bike lanes would likely result in an increase in pedestrian traffic, thereby potentially causing indirect adverse effects to site preservation.

- Are there any structures likely to be 50 years old or older within or adjacent to the project area? Y ____ N __x__ If “yes,” please list addresses below:

Source: records search of the Arizona Archaeological Site and Survey Database (AZSITE) on 1/27/2011 and records search of the Pima County online list of Priority Cultural Resources on 3/9/2011, site visit on 3/7/2011, and personal communication with Roger Anyon of the Pima County Office of Cultural Resources and Historic Preservation on 3/9/2011

**Visual Impact**

- Is the project likely to affect noticeably the views from adjacent properties? Y ____ N __x__
  
  If “yes,” briefly describe:

- Is the project likely to cause a noticeable change in the foreground, middle-ground, or background view from the road? Y _x__ N ____

Neighborhood/Social Impact

- Is there likely to be any commercial or residential displacement due to the construction of this project?  Y____ N __x__

- Are there likely to be any temporary changes in:
  
  *Business access*: Y____ N __x__
  
  *Parking*: Y____ N __x__
  
  *Other*

- Are there likely to be any permanent changes in:
  
  *Traffic service*: Y__x__ N ____
  
  *Traffic circulation*: Y__x__ N ____
  
  *Parking*: Y____ N __x__
  
  *Other*

- Is the project likely to affect continuity in neighborhoods in the vicinity?  Y____ N __x__

LOCAL JURISDICTION/AGENCY COORDINATION

- Are there local jurisdictions and governmental agencies with whom coordination is anticipated or has begun? Y__x__ N ____ If “yes,” who are they?
  
  City of South Tucson ____
  City of Tucson ____
  Oro Valley ____
  Pascua Yaqui Tribe __x__
  Tohono O’odham Nation __x__
  Town of Marana ____
  Town of Sahuarita ____
  Arizona Department of Environmental Quality __x__
  Arizona Department of Transportation __x__
  Arizona Game and Fish Department __x__
  Arizona State Land Department __x__
  U.S. Army Corps of Engineers __x__
  U.S. Bureau of Land Management __x__
  U.S. Environmental Protection Agency __x__
  U.S. Federal Highway Administration __x__
  U.S. Fish and Wildlife Service __x__
  Other: Regional Transportation Authority

- Note any issues for coordination that have been identified to date: None

- Briefly describe coordination efforts planned or underway:
  
  Local jurisdictions and government agencies will be contacted through scoping letters. The project is receiving federal funding and will involve coordination with the Arizona Department of Transportation and the Federal Highway Administration.

Source: project scope of work dated 11/26/2010
PUBLIC INVOLVEMENT

- Has a Public Involvement Plan been developed for the project? Y____ N __x__
- Has a Citizen Advisory Committee been formed, or is one being formed? Y__x__ N ____
- Have any public meetings been scheduled? Y____ N __x__ If “yes,” have any meetings been held to date? Y__x__ N ____

Note: A Citizen Advisory Committee was formed several years ago during an initial effort on this project, and public meetings were held at that time. The project was halted in 2008. The Citizen Advisory Committee will reestablish in support of the project recommencing. No public meetings have been held since the project was halted.

- Has any information useful to project development been identified through any public interaction to date? Y____ N __x__ If “yes,” briefly describe:
- Is there any known controversy over this project to date? Y____ N __x__ If “yes,” briefly describe:

Source: project scope of work dated 11/26/2010

PERMITS

- Anticipated permits and/or approvals?
  404 Permit: __x__
  401 Certification: __x__
  Sole Source Aquifer: __x__

State Historic Preservation Officer (SHPO) clearance: __x__
Nonpoint Pollutant Discharge Elimination System (NPDES): ____

Other:
Arizona Pollutant Discharge Elimination System Permit (AZPDES)
Pima County Regional Flood Control District Floodplain Use Permit

Note: No project activities are anticipated on tribal land. If the project requires the use of tribal land, then an NPDES would be required and an AZPDES would no longer be used.

Completed by: _______________________________
(name and title)
Date: ______________________________________
### Valencia Road, Mountain Eagle Drive to Mark Road

#### Environmental Impact Screening Summary Impact Matrix

**April 2011**

**Project name:** Valencia Road  
**Project limits:** Mountain Eagle Drive to Mark Road

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<th>Potentially affected environmental categories</th>
<th>Water quality</th>
<th>100-year floodplain</th>
<th>Protected waterways</th>
<th>Visual quality/ viewsheds</th>
<th>Protected plants/ vegetation</th>
<th>Protected animals/ wildlife</th>
<th>Cultural resources/ (archaeological and historic)</th>
<th>Air quality</th>
<th>Noise</th>
<th>Hazardous materials</th>
<th>Land uses/ community character</th>
<th>Neighborhood continuity</th>
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**Notes:**  
0 = no involvement  
X = potential involvement, but no or minimal impact  
M = potential moderate impact  
H = potential high impact  
TBD = to be determined