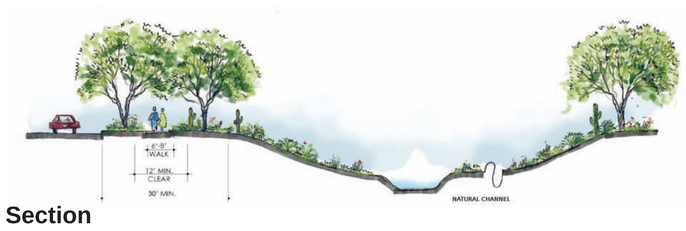
Compatible Flood Control Methods
Channels
Wittmann / McMicken Dam Area Drainage Master Plan

Non-Structural
Flood Protection Method

- Absence of structural improvements for flood protection
- Flood protection is provided through use of existing natural drainage features within the landscape
- Implemented through regulatory measures
  - Erosion Set Back Zones Implemented through regulatory measures
  - Zoning Regulations
  - Development Guides
- Could include roads for operations and maintenance administrative purposes
- Complements the character of any landscape setting

Plan View



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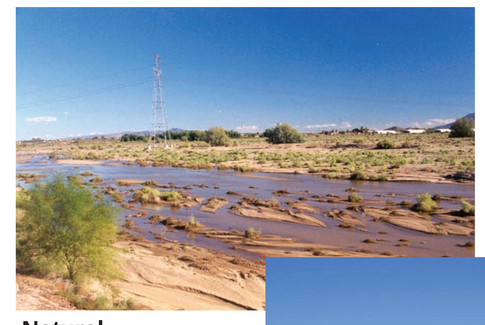
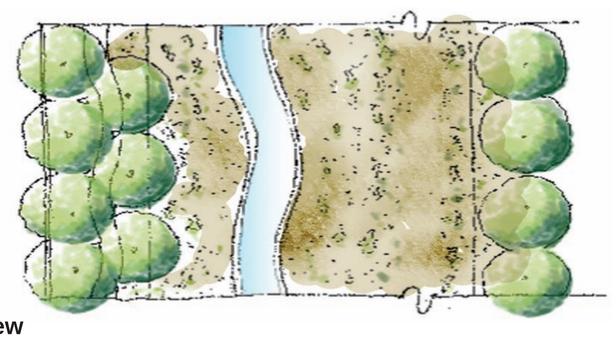


Natural

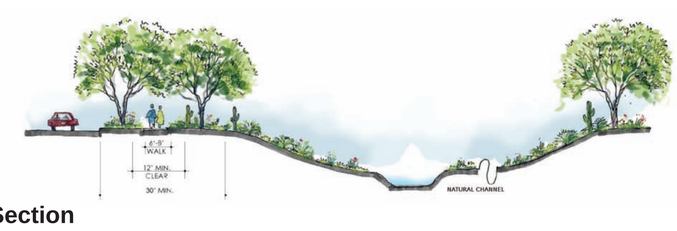
Natural

Soft Structural
Flood Protection Method

- Constructed of earthen materials
- Hard structural components are absent, buried or disguised to appear as natural features
- Can be designed to emulate the valued characteristics of a wide range of landscape settings
- Complementary to natural, pastoral, rural, suburban and urban landscape settings
- Potential for enhancing suburban and urban settings through introduction of positive variety of solutions



Plan View



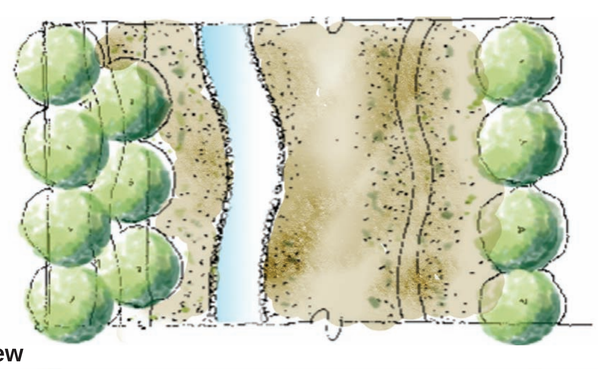
Section

Desert Enhanced

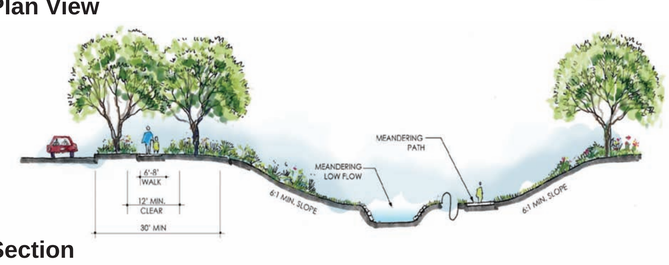
Desert Park / Oasis

Semi-Soft
Flood Protection Method

- Super Structure constructed predominantly of earthen materials
- Contains visibly hard structural components such as:
  - Grade Control Structures
  - Energy Dissipaters
  - Inlet & Outlet Structures
- Soft structural component can be designed to emulate the valued characteristics of a wide range of landscape settings
- Hard structural components can often be designed to remain subordinate to, and complement the valued character of the landscape setting
- Potential for enhancing suburban and urban settings through introduction of positive variety of solutions



Plan View



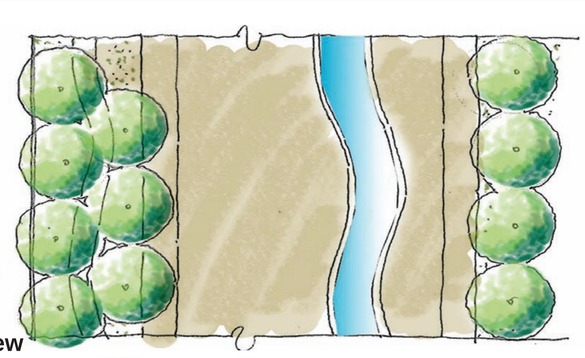
Section

Desert Oasis

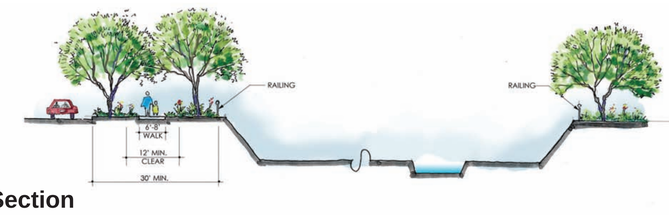
Desert Park

Hard Structural with Aesthetic Treatment
Flood Protection Method

- Predominantly large scale lined super structures and support components
- Includes aesthetic treatment such as:
  - Meandering or irregular overall built form
  - Warped and terraced side slopes
  - Meandering bottom areas with islands
  - Over-bank areas with attractive landscape berms
  - Use of color, materials, textural patterns urban art & other architectural embellishments
  - Landscape plantings and other surface treatments
- Can be designed to complement a wide range of urban and industrial potential for introducing negative deviations into natural, pastoral, rural and most suburban landscape settings

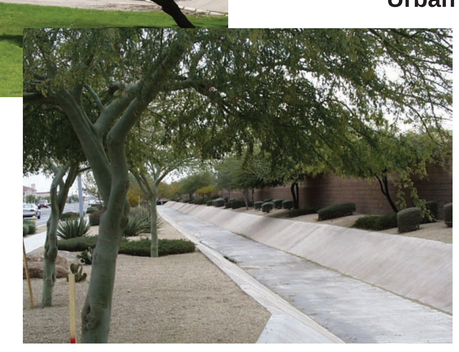


Plan View



Section

Desert Oasis



Urban

2801 West Durango Street, Phoenix, AZ 85009, (602) 506-1501

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Compatible Flood Control Methods
Basins
Wittmann / McMicken Dam Area Drainage Master Plan

Non-Structural
Flood Protection Method

- Absence of structural improvements for flood protection
- Flood protection is provided through use of existing natural drainage features within the landscape
- Implemented through regulatory measures
  - Erosion Set Back Zones Implemented through regulatory measures
  - Zoning Regulations
  - Development Guides
- Could include roads for operations and maintenance administrative purposes
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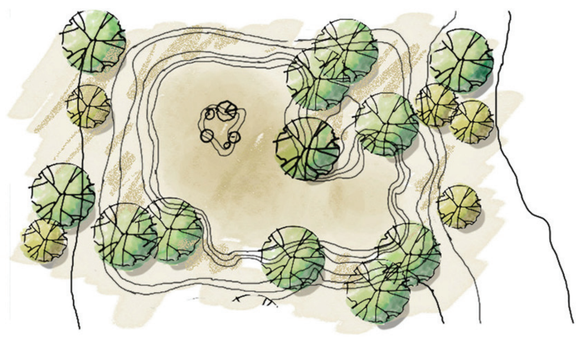
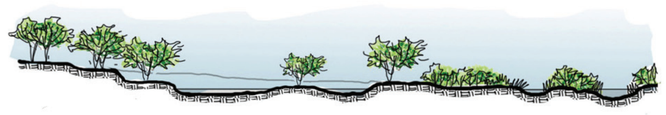


Plan View



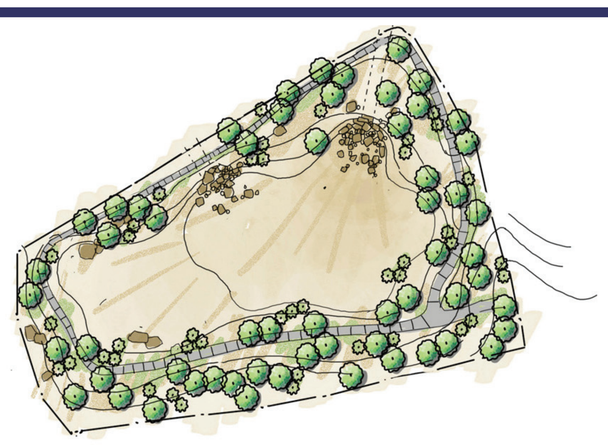
Section

Natural

Natural

Soft Structural
Flood Protection Method

- Constructed of earthen materials
- Hard structural components are absent, buried or disguised to appear as natural features
- Can be designed to emulate the valued characteristics of a wide range of landscape settings
- Complementary to natural, pastoral, rural, suburban and urban landscape settings
- Potential for enhancing suburban and urban settings through introduction of positive variety of solutions



Plan View

Section

Desert Oasis

Desert Park

Semi-Soft
Flood Protection Method

- Super Structure constructed predominantly of earthen materials
- Contains visibly hard structural components such as:
  - Grade Control Structures
  - Energy Dissipaters
  - Inlet & Outlet Structures
- Soft structural component can be designed to emulate the valued characteristics of a wide range of landscape settings
- Hard structural components can often be designed to remain subordinate to, and complement the valued character of the landscape setting
- Potential for enhancing suburban and urban settings through introduction of positive variety of solutions

Plan View

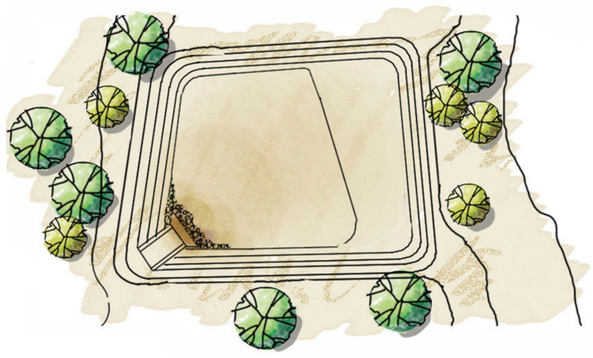
Section

Industrial

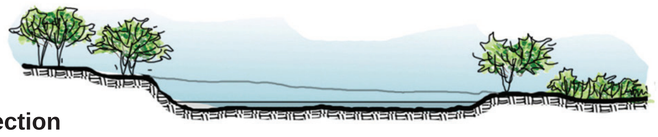
Desert Park

Hard Structural with Aesthetic Treatment
Flood Protection Method

- Predominantly large scale lined super structures and support components
- Includes aesthetic treatment such as:
  - Meandering or irregular overall built form
  - Warped and terraced side slopes
  - Meandering bottom areas with islands
  - Over-bank areas with attractive landscape berms
  - Use of color, materials, textural patterns urban art & other architectural embellishments
  - Landscape plantings and other surface treatments
- Can be designed to complement a wide range of urban and industrial potential for introducing negative deviations into natural, pastoral, rural and most suburban landscape settings



Plan View



Section

Desert Park

Urban

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Compatible Flood Control Methods
Dams
Wittmann / McMicken Dam Area Drainage Master Plan

Soft Structural
Flood Protection Method

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- Can be designed to emulate the valued characteristics of a wide range of landscape settings
- Complementary to natural, pastoral, rural, suburban and urban landscape settings
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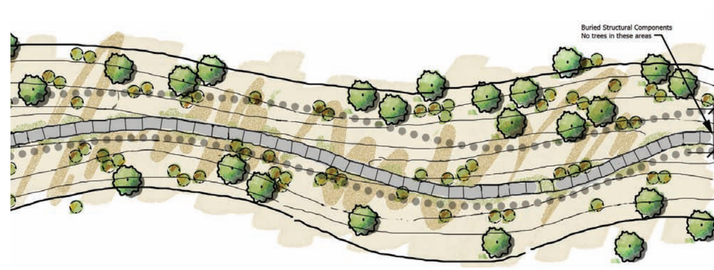
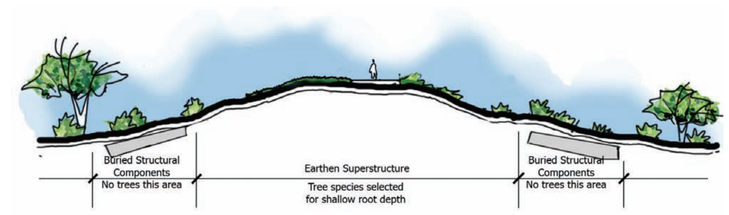


Plan View

Desert Oasis



Section

Natural

Semi-Soft
Flood Protection Method

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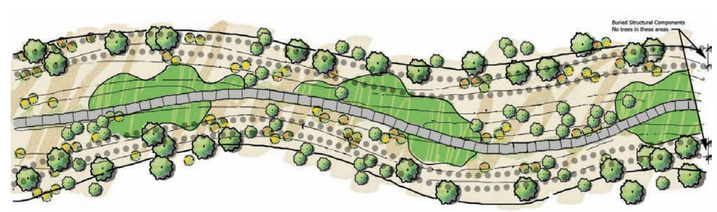
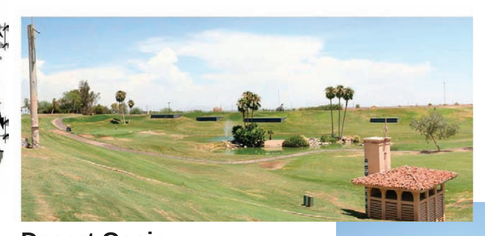
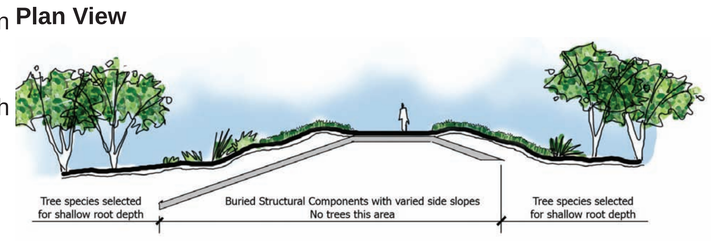


Plan View



Desert Oasis

Desert Oasis



Section

Hard Structural with Aesthetic Treatment
Flood Protection Method

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  - Meandering bottom areas with islands
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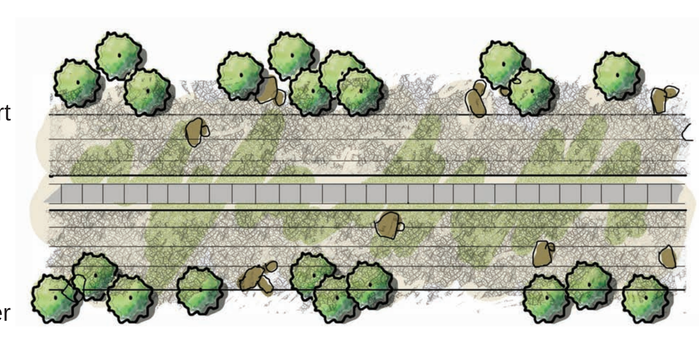
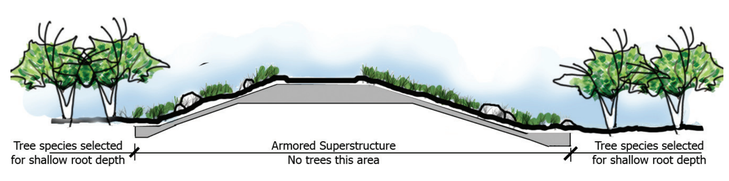


Plan View

Natural

Natural



Section

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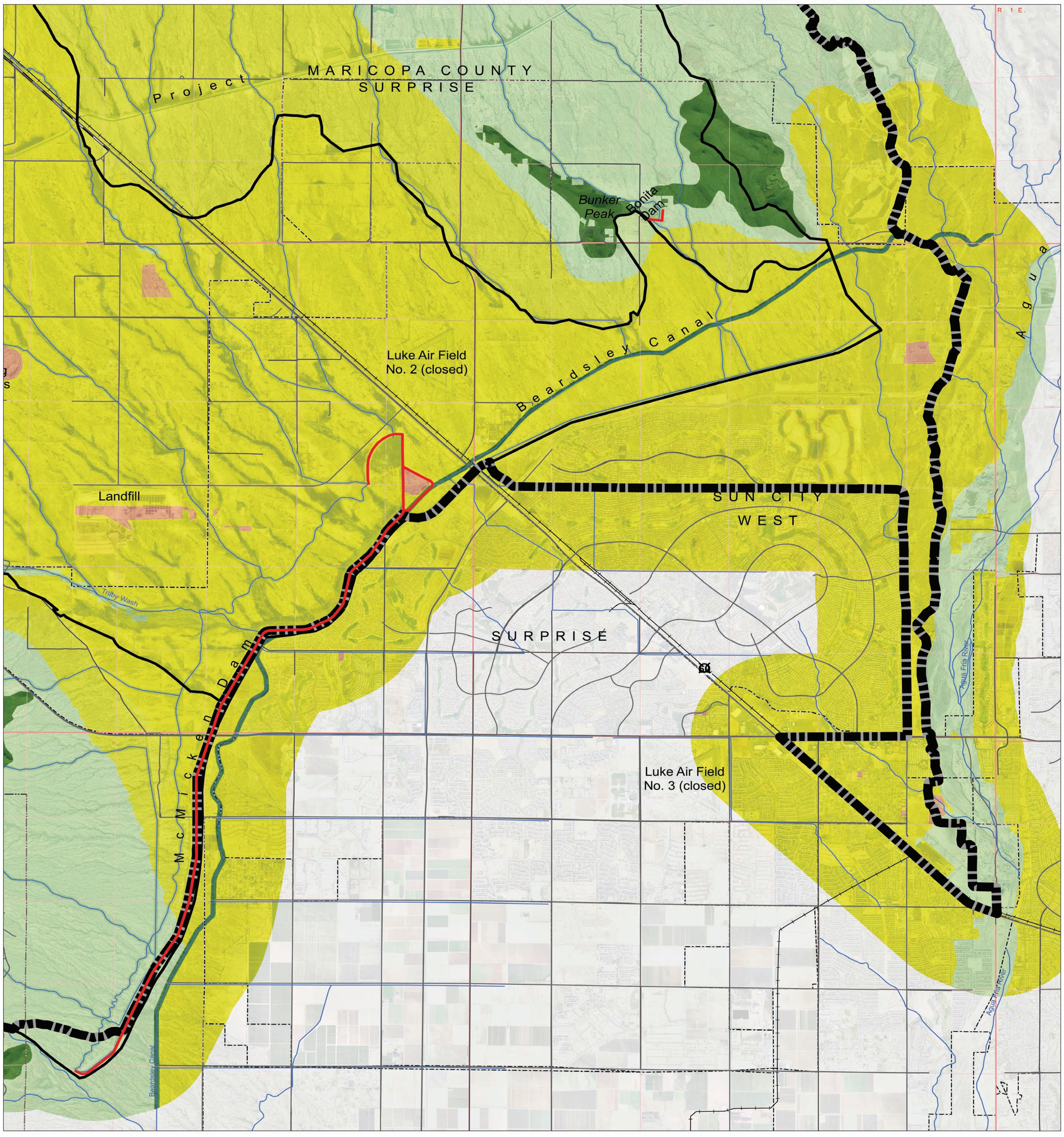
Existing Scenic Resource & Parks / Open Space Compatibility

Wittmann / McMicken Dam Area Drainage Master Plan



EXISTING SCENIC RESOURCE COMPATIBILITY LEVELS

- Compatibility Class 1
- Compatibility Class 2
- Compatibility Class 3
- Compatibility Class 4

Compatibility Classes						
Compatibility Class 1	Non-Structural					
Compatibility Class 2	Non-Structural	Soft				
Compatibility Class 3	Non-Structural	Soft	Semi-Soft			
Compatibility Class 4	Non-Structural	Soft	Semi-Soft	Hard w/ Aesthetic Treatment		
Compatibility Class 5	Non-Structural	Soft	Semi-Soft	Hard w/ Aesthetic Treatment	Semi-Hard	
Compatibility Class 6	Non-Structural	Soft	Semi-Soft	Hard w/ Aesthetic Treatment	Semi-Hard	Hard
Incompatible						

REFERENCE FEATURES

- Township & Range
- Section
- Dam
- Streams
- Site Study Area
- County Boundary
- Municipal Boundary
- Highway
- Arterial Road
- Character Type Boundary
- Subtype Boundary

NTS
Not To Scale

NORTH

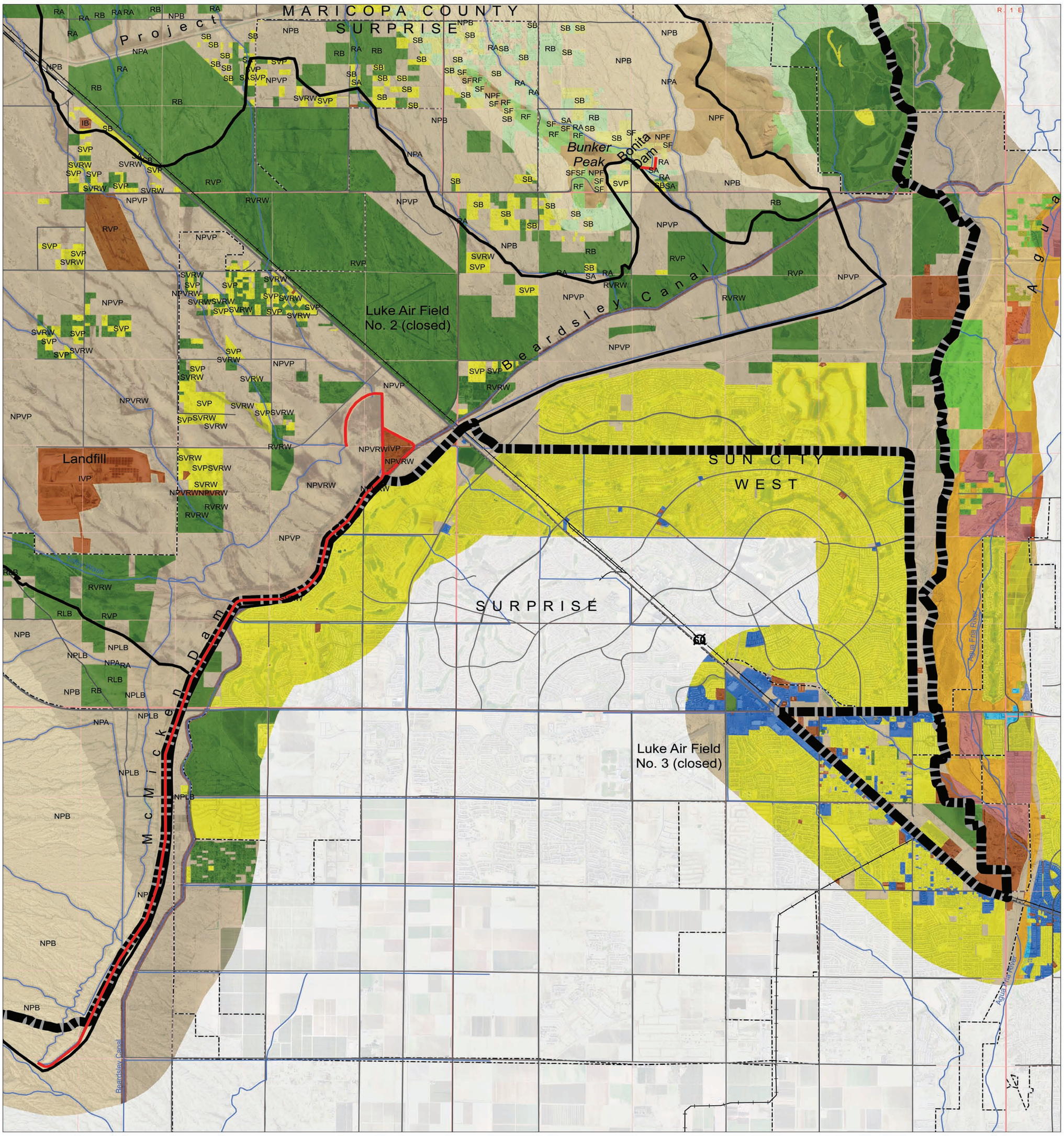
PREPARED BY:
Date: May 6, 2006

SOURCES:

This map was prepared as part of the overall assessment of the visual landscape character for the Wittmann ADMP for the Flood Control District of Maricopa County, under contract 2004C034 with EPG, Inc., Phoenix, Arizona. This map was prepared using Geographic Information Systems (GIS) software. GIS data supplied by the Flood Control District of Maricopa County, and field investigations conducted by EPG, Inc. For more information about this map, please contact the Flood Control District of Maricopa County/Landscape Architecture Branch at (602)506-1501 or write to us at 2801 W. Durango Street, Phoenix, AZ, 85009

Existing Landscape Character Units

Wittmann / McMicken Dam Area Drainage Master Plan



TONTO LANDSCAPE CHARACTER TYPES

Sonoran Arizona Uplands Subtype
- NPSAU Natural & Pastoral Sonoran Arizona Uplands
- RSAU Rural Sonoran Arizona Uplands
- SSAU Suburban Sonoran Arizona Uplands
- ISAU Industrial Sonoran Arizona Uplands
- NPAUA N&P Sonoran Arizona Uplands Arroyo
- RAUA Rural Sonoran Arizona Uplands Arroyo
- SAUA Suburban Sonoran Arizona Uplands Arroyo

Upper Tonto Subtype
- NPUT Natural & Pastoral Upper Tonto
- NPUTA Natural & Pastoral Upper Tonto Arroyo
- IUT Industrial Upper Tonto

SONORAN DESERT LANDSCAPE CHARACTER TYPES

Sonoran Valley Lands Subtype
- NPRW Natural & Pastoral Valley Rivers & Washes
- RVRW Rural Valley Rivers & Washes
- SVRW Suburban Valley Rivers & Washes
- IVRW Industrial Valley Rivers & Washes
- NPVP Natural & Pastoral Valley Plain
- RVP Rural Valley Plains
- SVP Suburban Valley Plains
- IVP Industrial Valley Plains

Sonoran Mountain Lands Subtype
- NPLB Natural & Pastoral Lower Bajada
- RLB Rural Lower Bajada
- NPB Natural & Pastoral Upper Bajada
- RB Rural Upper Bajada
- SB Suburban Upper Bajada
- IB Industrial Upper Bajada
- NPA Natural & Pastoral Arroyo
- RA Rural Arroyo
- SA Suburban Arroyo
- IA Industrial Arroyo
- NPF Natural & Pastoral Foothills
- RF Rural Foothills
- SF Suburban Foothills
- IF Industrial Foothills
- NPM Natural & Pastoral Mountains

REFERENCE FEATURES
- Township & Range
- Section
- Dam
- Streams
- Site Study Area
- County Boundary
- Municipal Boundary
- Highway
- Arterial Road
- Character Type Boundary
- Subtype Boundary

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