



Draft Tier 1 Environmental Impact Statement and Preliminary Section 4(f) Evaluation

Section 3.3, Land Use and Section 6(f)

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1 **3.3 Land Use and Section 6(f)**

2 **3.3.1 Land Use and Special Designated Lands**

3 This section describes the existing and future (planned) land use, land use plans and policies,
4 and any special designated lands within the Interstate 11 (I-11) Corridor Study Area (Study
5 Area). The Study Area encompasses portions of the cities of Buckeye, Casa Grande, Eloy,
6 Goodyear, Maricopa, Nogales, Surprise, South Tucson, and Tucson; portions of the towns of
7 Gila Bend, Marana, Oro Valley, Sahuarita, and Wickenburg; and areas of unincorporated
8 Maricopa, Pima, Pinal, Santa Cruz, and Yavapai counties.

9 **3.3.1.1 Regulatory Setting**

10 Arizona state law requires that communities update their general or comprehensive plan every
11 10 years (Arizona Revised Statutes §9-461.05 for incorporated municipalities; Arizona Revised
12 Statutes §11-804 for counties). These plans establish a long-range blueprint, and goals and
13 policies to guide future growth and development, mapping a future envisioned 20 or more years
14 ahead. The Arizona Growing Smarter/Growing Smarter Plus state legislation outlines the
15 statutory requirements of general and comprehensive plan documents. These requirements are
16 based on population size and whether the jurisdiction is an incorporated municipality or county,
17 dictating a minimum series of elements. An element is a specific section of the plan that
18 discusses a particular planning topic, such as land use, transportation, housing, economic
19 development, energy, and public services. All plans must present existing and planned land
20 uses and transportation strategies as well as related regulations.

21 Each city and town regulates land planning within its municipal planning area, while counties are
22 responsible for planning in the unincorporated areas. While both lay out circulation plans for
23 their jurisdictions, metropolitan planning organizations lead multimodal transportation planning
24 throughout urbanized areas, in collaboration with their member agencies, which typically include
25 all cities, towns, counties, and Tribal governments within the planning area.

26 This land use section documents existing and planned land uses from available data and
27 information provided by local governments. No formal local land use approvals would occur as
28 the result of this Draft Tier 1 Environmental Impact Statement and Preliminary Section 4(f)
29 Evaluation (Draft Tier 1 EIS). The requirements for subsequent Tier 2 evaluations, including
30 compliance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act
31 of 1970, are described further in Section 3.3.1.6.

32 From a land management perspective, each agency has varying laws and regulations governing
33 use, management, land disposal, and protection of character and values. The potential direct
34 impact to these lands will be discussed as well as the potential acres of land conversion under
35 each of the Build Corridor Alternatives. However, until a specific alignment is selected in Tier 2
36 studies, these conversion impacts should be viewed as high-level estimates and do not reflect
37 detailed calculations. As required, the Arizona Department of Transportation (ADOT) will pursue
38 coordination and mitigation activities with individual agencies, such as development of
39 Memoranda of Understanding, programmatic agreements, and updates to resource
40 management plans, at the selection of a specific alignment in Tier 2 studies. See **Chapter 6**
41 (Recommended Alternative) for further discussion of mitigation strategies.



1 **3.3.1.2 Methodology**

2 The planning process for the Draft Tier 1 EIS documents land use considerations at a
3 programmatic level (qualitative) with respect to the impacts of an I-11 Corridor on existing and
4 future land uses within the three Build Corridor Alternatives as well as the No Build Alternative.
5 The Project Area for land use is the 2,000-foot-wide corridor for each Build Corridor Alternative.
6 The analysis acknowledges that direct land use impacts would be different for Corridor Options
7 that are co-located with existing corridors versus Corridor Options in undeveloped areas, but
8 these differences are not reflected in the overall acreage calculations for the Corridor Options.

9 The adopted general or comprehensive plans within each jurisdiction were used as sources of
10 information. Local plans and ordinances, along with private development plans, were consulted
11 to establish the affected environment, environmental consequences, and proposed mitigation
12 measures. Land use trends, goals, and objectives of relevant city, county, and regional plans
13 were reviewed to determine if construction of I-11 would be consistent with these jurisdictions'
14 applicable goals and policies; potential impacts to special land management designations also
15 were reviewed. Other sources of information include Maricopa Association of Governments
16 (MAG) and Pima Association of Governments (PAG) (their land use projections, various
17 websites, and conversations with agency staff). Geographic information system (GIS) software
18 was used to pinpoint land uses and land ownership in the Study Area and to measure the
19 acreage of various land uses. Field verification was undertaken as needed to understand
20 existing land uses.

21 It is important to acknowledge that land use planning is an ongoing activity. Therefore,
22 information related to all of these land use topics will be updated during Tier 2 studies to
23 maintain the most up-to-date information.

24 From a land management perspective, underlying land ownership patterns were analyzed for
25 their potential impacts to federally and state-managed lands, in addition to related legislation or
26 planning documents that might guide future development opportunities.

27 **3.3.1.3 Affected Environment**

28 The following sections provide summary-level findings. For the full land use inventory, see
29 **Appendix E3**, Land Use and Section 6(f) Technical Memorandum.

30 **Land Use Plans and Policy**

31 Land use elements vary among the Study Area jurisdictions' general and comprehensive plans.
32 Within the South Section, the Study Area encompasses portions of the planning areas of
33 Nogales, Sahuarita, South Tucson, Tucson, Marana, Eloy, Pima County, and Pinal County. In
34 the Central Section, the Study Area encompasses portions of the planning areas of Casa
35 Grande, Gila Bend, Goodyear, Buckeye, Pinal County, and Maricopa County. The North Section
36 includes portions of the planning areas of Buckeye, Wickenburg, Maricopa County, and Yavapai
37 County.

38 Typically, land use goals relate to economic growth that takes advantage of transportation
39 infrastructure while maintaining buffers between urban and rural land use and to development
40 that occurs in a manner that is sensitive to the natural environment. In general, the
41 transportation elements include goals related to improving circulation and reducing congestion,
42 enhancing public transit, and creating alternatives to automobile transportation for localized
43 travel. As a driver of growth, economic development initiatives respond to transportation

1 patterns, with other land uses planned in a compatible manner. For example, it is common for
2 Study Area jurisdictions to plan major employment centers along high-capacity roadways, as
3 industrial growth is anticipated near freeways, rail lines, and airports. Mixed-use development
4 often surrounds these areas, with lower densities of residential growth more distant from these
5 areas to avoid conflicts with noise and high volumes of traffic.

6 Many municipalities, including Pinal County, Casa Grande, Eloy, Goodyear, Buckeye, and
7 Wickenburg, already incorporate some version of I-11 in their general or comprehensive plans.,
8 These versions of I-11 often have multiple names, including the West Pinal Freeway (Options I1
9 and I2), Hassayampa Freeway (Options I1, I2, L, M, X), State Route (SR) 303L South Extension
10 (north-south portion of Option N), and SR 30 (east-west portion of Option N and Option R).

11 Other municipal plans are focused on expansion of existing highways such as I-19, I-10, I-8,
12 and SR 85 through their communities, (e.g., Nogales, Tucson, and Gila Bend). Several Study
13 Area jurisdictions incorporate and acknowledge ongoing study processes for other intersecting
14 high-capacity transportation corridors, such as the Sonoran Corridor and North-South Freeway.
15 ADOT is considering both in current Draft Tier 1 EIS efforts. In all these scenarios,
16 transportation-compatible land uses are planned in the vicinity of expected transportation
17 corridors, and such land uses will provide a built environment that is well suited for a new or
18 improved high-capacity transportation corridor. For more information on individual land use
19 plans and policies and their relationship with the Build Corridor Alternatives, see **Appendix E3**,
20 Land Use and Section 6(f) Technical Memorandum.

21 **Existing Land Use**

22 Most of the Study Area today consists of vacant or residential land, with large swaths of
23 recreation, open space, or agricultural land and clusters of commercial and industrial
24 development, generally along existing transportation corridors and at major transportation
25 junctions. The following narrative summarizes existing land use patterns, as shown on
26 **Figure 3.3-1** (Existing Land Use). Noted land use features are labeled for context. See
27 **Appendix E3**, Land Use, for tabular descriptions of land use compositions and acreage
28 breakdowns.

29 Please note that illustrated land uses reflect categorizations in municipal and county general
30 and comprehensive plans. They are not always reflective of underlying land management
31 patterns, which will be discussed further in the next section. Therefore, some areas that are
32 managed as open space or recreation areas may not be reflected as such on **Figure 3.3-1**
33 (Existing Land Use).

34 For the South and Central Sections, spatial data is unavailable for Pinal County (Options F, G,
35 H, and I); for the North Section, data is unavailable for Yavapai County (northern portions of
36 Options S, U, and X). Neither county maintains a database of existing land uses. For this
37 analysis, a field survey and review of aerial photography assisted in the narrative.

38 Land uses within the South Section are primarily categorized as existing residential or vacant,
39 with pockets of commercial development at traffic interchange locations and near major arterial
40 intersections. A large cluster of mining activities, including the Mission and Sierrita Mines, exists
41 south of the San Xavier District of the Tohono O’odham Nation. Two major Tucson water
42 recovery properties are located north of SR 86 (CAVSARP/SAVSARP). Other industrial clusters
43 are located near Pinal Airpark and between I-10 and the Union Pacific Railroad (UPRR) corridor
44 in Eloy. The Tucson metropolitan area, especially along the I-10 and I-19 routes, is heavily built
45 out, while the fringes of the urban environment are more sparsely populated, with clusters of

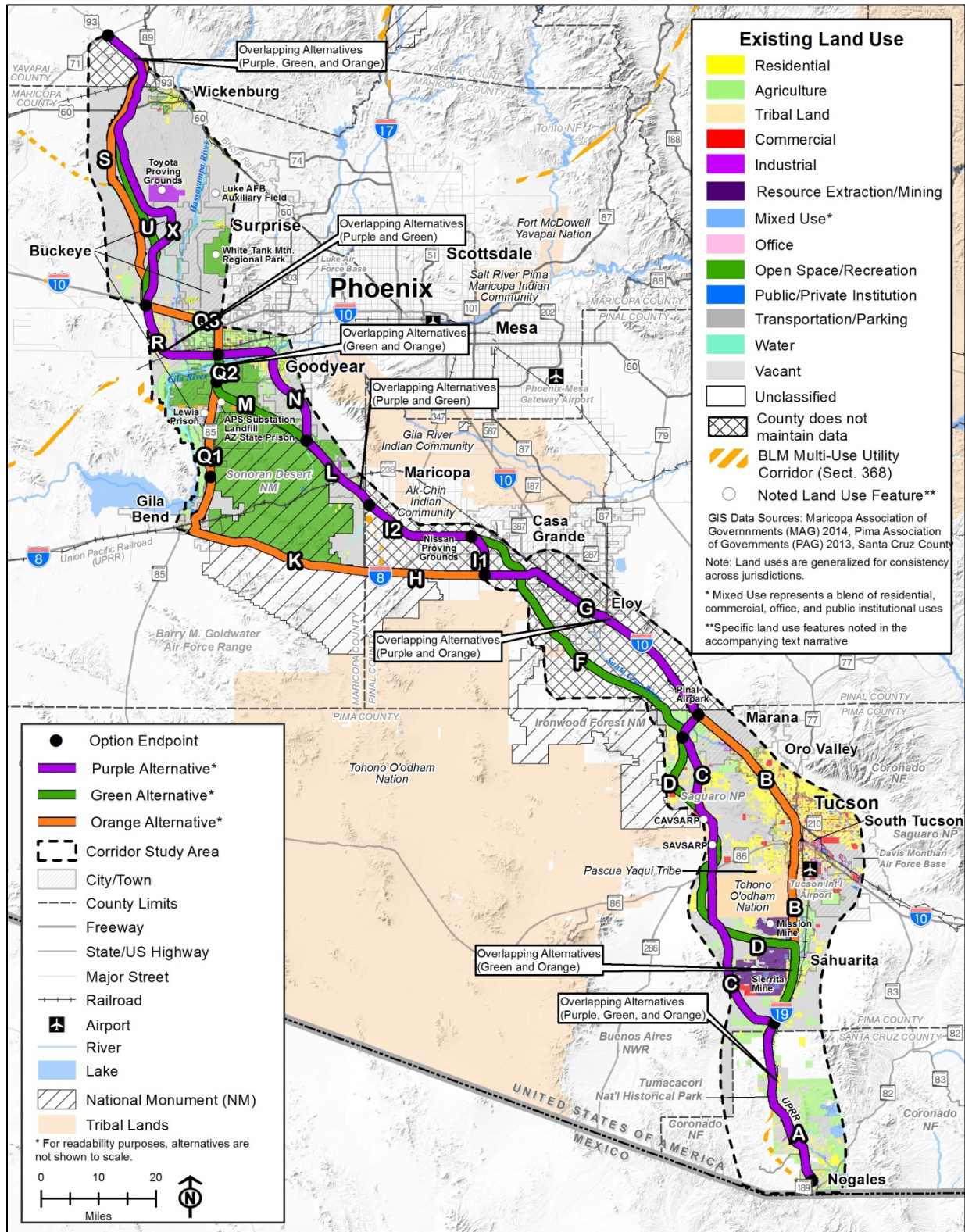


Figure 3.3-1 Existing Land Use



1 low-density residential housing, open space features, and vacant lands. Large clusters of open
2 space and recreation uses, which are not illustrated in this categorization, are present in the
3 South Section, namely Saguaro National Park (SNP), Tucson Mountain County Park,
4 Tumacacori National Historical Park, Tubac Presidio State Historic Park, Ironwood Forest
5 National Monument, and Picacho Peak State Park.

6 Land uses within the Central Section are primarily residential, recreation and open space, or
7 vacant, with pockets of commercial and industrial development along existing corridors. This
8 section's high degree of open space land uses is mostly due to the location of the Sonoran
9 Desert National Monument (SDNM), which comprises more than half of the geographic area,
10 several additional parks and recreation areas. Although not mapped, most of the Study Area in
11 Pinal County is vacant and residential in nature, with large swaths of agricultural land and small
12 clusters of commercial and industrial growth, including the Nissan Proving Grounds. Residential
13 development in the Maricopa County portion is primarily clustered near Gila Bend (I-8/SR 85),
14 Buckeye (SR 85/MC-85), and Goodyear (planned SR 303L South Extension).

15 Non-open-space areas of Maricopa County have a high amount of agricultural lands, mostly
16 located near the Gila River corridor. A cluster of existing industrial and public institutional uses is
17 located on SR 85 south of the Gila River (e.g., Arizona Public Service substation, prison
18 complexes, and a large landfill facility).

19 Several portions of the Corridor Options run within Bureau of Land Management (BLM)
20 multi-use utility corridors, which are defined corridor rights-of-way for transportation and energy
21 transmission facilities. These multi-use utility corridors represent BLM's preferred routing of
22 such facilities through their lands.

23 Lands within the North Section are primarily vacant, with some scattered low-density
24 development. Within Maricopa County, major land use features include the Toyota Proving
25 Grounds, White Tank Mountain Regional Park, agricultural and residential lands north of I-10,
26 along with a mix of uses that comprise the Town of Wickenburg. Luke Air Force Base holds a
27 small auxiliary field on the east side of the Hassayampa River. Yavapai County does not
28 maintain an existing land use file, but currently this land is mostly vacant State Trust land. Large
29 clusters of open space and recreation areas are located north of the Toyota Proving Grounds in
30 the center of the Study Area (Vulture Mountains Recreation Area [VMRA], Hassayampa River
31 Preserve), but they are not mapped.

32 **Planned Land Use**

33 Planned land uses in the Study Area reflect the 20-year future land use scenario envisioned in
34 municipal and county general and comprehensive plans. Future land uses are speculative and
35 development patterns can quickly change to respond to new opportunities and constraints, such
36 as a new transportation corridor, changing demographics, or the attraction of a major employer.
37 Additionally, planned land uses are the best vision of a comprehensive coordinated
38 development pattern. However, that does not guarantee that uses will be developed precisely
39 as planned or within the time period envisioned. Furthermore, new residential development in
40 any of the state's five Active Management Areas (including portions of Maricopa, Pinal, Pima,
41 Santa Cruz and Yavapai counties) must demonstrate a 100-year water supply under the
42 Arizona Department of Water Resources' Assured Water Supply Program. This approval
43 requires that new residential development meet five criteria (physical water availability,
44 continuous water availability, legal water availability, water quality, and financial capability to
45 construct water delivery/storage) and comes after the master-planning process (which is what is
46 typically embedded in general and comprehensive plans as "planned land uses"), but before the



1 recording of plats or selling of parcels. Therefore, the amount and density of proposed
2 residential development throughout the Study Area may not be reflective of the reality of water
3 availability.

4 The following narrative summarizes the land uses planned in current general and
5 comprehensive plans. However, several plans will be due for revision soon, and the current land
6 use scenario could vary in the future. Planned land uses are illustrated on **Figure 3.3-2**
7 (Planned Land Use). Noted land use features are labeled for context. See **Appendix E3**, Land
8 Use and Section 6(f) Technical Memorandum, for tabular descriptions of land use compositions
9 and acreage breakdowns. Section 3.3.1.4, Environmental Consequences, discusses the
10 implications for specific Build Corridor Alternatives in more detail.

11 Approximately half of the land within the South Section is planned for residential growth of
12 varying densities. The growth is generally concentrated within the jurisdictional boundaries of
13 Tucson, Marana, Nogales, Sahuarita, and other smaller communities. Industrial land use is the
14 second-largest category of land use, with most uses located around Tucson International
15 Airport, northwest of Tucson and adjacent to SNP, and south of the Tohono O’odham Nation.
16 Recreation and open space form the third-largest category of land use. The Tohono O’odham
17 Nation occupies approximately 10 percent of the Study Area in this section. In addition, public
18 and private institutional land uses are scattered throughout this area. Generally, land
19 immediately adjacent to existing interstate corridors is planned to be used for industrial,
20 commercial, and mixed-use development.

21 Planned land uses in the Central Section are largely dominated by recreation and open space
22 land uses, owing largely to the SDNM and the proposed Palo Verde Regional Park, the
23 Buckeye Hills Regional Park, and other active and passive open spaces scattered throughout
24 the section. Residential land uses form the second largest land use category in this section and
25 will continue to be generally concentrated within the communities of Buckeye, Casa Grande,
26 Goodyear, and Gila Bend. A variety of industrial, office, commercial, and mixed uses are
27 scattered throughout the Central Section.

28 Planned land uses in the North Section are primarily split between equal portions of recreational
29 lands and open spaces (VMRA, White Tank Mountain Regional Park) and residential land uses.
30 The Hassayampa River flows through the North Section, and together with various streams and
31 washes, it constitutes approximately 2 percent of the land. Smaller commercial and industrial
32 land uses are scattered throughout the section. Major large-scale master-planned communities
33 in Buckeye and Maricopa County are designated as mixed use and are planned to include both
34 residential and employment-generating land uses.

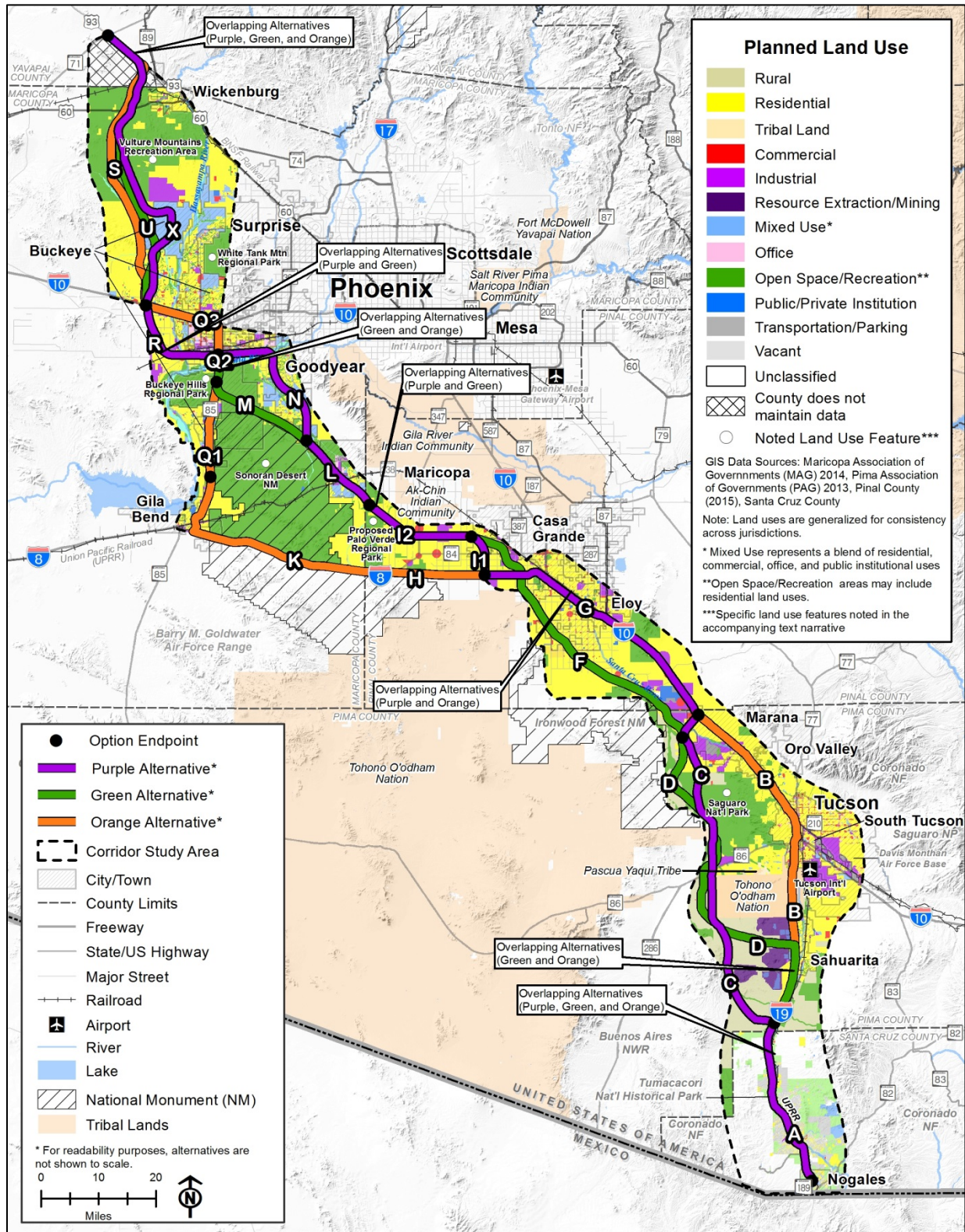


Figure 3.3-2 Planned Land Use



1 Master Planned Communities

2 The Study Area, specifically the Pinal County and Maricopa County portions, has been on the
3 fringe of expanding Phoenix metropolitan development for more than a decade. There were
4 more than 200 master-planned communities in various stages of planning, permitting, and
5 construction when the Great Recession hit and most development paused. Several large
6 communities are still planned and/or under development today, as shown on **Figure 3.3-4**
7 (Major Study Area Master-Planned Communities).

8 Six large-scale communities form the primary clusters of new anticipated growth (Rancho
9 Sahuarita in the South Section; Dreamport Villages, Amaranth, and Estrella in the Central
10 Section; and Belmont and Douglas Ranch in the North Section). Generally permitted as a
11 Planned Area Development, these master-planned communities tend to show up on general or
12 comprehensive plan maps as either all residential or all mixed-use. And while they are typically
13 predominantly residential with a mix of uses throughout, there is generally a thoughtful pattern
14 to their layout, based more on performance standards than zoning. Communities of these sizes
15 may take 25 to 30 or more years to build out, spanning multiple economic cycles and
16 responding in like, which the Planned Area Development allows for. A generalized map of these
17 community locations is illustrated on **Figure 3.3-4** (Major Study Area Master-Planned
18 Communities). Please note that locations are approximate and do not illustrate parcel
19 boundaries. See **Appendix E3**, Land Use and Section 6(f) Technical Memorandum, for more-
20 detailed descriptions of future development opportunities.

21 Land Management and Special Designated Lands

22 This section discusses major land management in the Study Area and special designated lands,
23 such as wildernesses, national monuments, areas of critical environmental concern (ACECs),
24 designated roadless areas, and other deeded properties. Only about half the Study Area is
25 private land, and differing land regulations apply to the use of the other lands for transportation
26 purposes. Some land managers, like the Arizona State Land Department (ASLD), may see a
27 new transportation corridor as a benefit and asset to their properties, providing access to
28 developable, non-sensitive lands. Others may feel a high-capacity roadway would have
29 negative impacts, such as increased traffic, noise, pollution, or wildlife connectivity and habitat
30 fragmentation.

31 For example, several designated wildernesses exist within the Study Area, managed by various
32 agencies but all subject to the Wilderness Act of 1964, which defines these areas as those with
33 a minimal human footprint, opportunities for unconfined recreation; and educational, scientific,
34 or historical value; and without enterprises or motorized travel within them. Ongoing
35 coordination is required with all agencies to understand the consequences of locating a potential
36 I-11 through or proximate to the properties under their jurisdiction.

1 The following narrative summarizes major land management patterns, as shown on
2 **Figure 3.3-5** (Land Management and Special Designated Lands). See **Appendix E3**, Land Use
3 and Section 6(f) Technical Memorandum, for tabular descriptions of land management
4 compositions and acreage breakdowns.

5 Slightly more than 50 percent of the South Section is private land and 25 percent is State Trust
6 lands. Smaller parcels of land are managed by BLM, the Bureau of Reclamation (Reclamation),
7 United States Forest Service (USFS), and National Park Service (NPS), and other parcels
8 belong to the military or are state parks and Tribal lands. Roadless areas and wilderness are
9 located within the USFS Coronado National Forest. These areas are generally on the edges of
10 the Study Area and do not encroach upon existing highways. The largest cluster of protected
11 lands is located west of metropolitan Tucson where SNP (NPS)/Saguaro Wilderness, Tucson
12 Mountain Park (Pima County Parks), and the Tucson Mitigation Corridor (TMC) (Reclamation)
13 sit adjacent to each other and near the Tohono O'odham Nation and Ironwood Forest National
14 Monument (BLM), which mostly sits outside the Study Area except for a small portion near
15 Marana.

16 Within the South Section, the Pima County Buffer Overlay Zone is a zoning overlay district
17 within 1-mile of the surrounding public preserves. The purpose of this overlay is to preserve and
18 protect the open space characteristics of lands that are in close proximity to public preserves,
19 while also permitting reasonable economic use of the land. This is intended as a transition zone
20 between the preserves and the more urban areas of the county. It does not discourage changes
21 in the underlying zoning, but seeks to minimize impacts to wildlife movement and the visual
22 aesthetics surrounding public preserves. Within the Study Area, this overlay zone applies to
23 national, state, and county parks; wildernesses; national forests; national monuments; wildlife
24 refuges; and other open space preservation areas (**Figure 3.3-5** [Land Management and
25 Special Designated Lands]).

26 Generally, land directly adjacent to existing interstate corridors is either privately or state-owned,
27 with the exception of the San Xavier District of the Tohono O'odham Nation, which spans about
28 an 8-mile section of I-19 between Tucson and Sahuarita, and Picacho Peak State Park, which
29 partially spans I-10 in its most northeastern corner.

30 Private land and BLM land are present in the Central Section. Most privately held land is located
31 near the incorporated municipal areas (Casa Grande, Gila Bend, Goodyear, and Buckeye),
32 while large pieces of contiguous BLM lands are present throughout most of the Maricopa
33 County portion, including the SDNM and various wildernesses. Parcels of State Trust land are
34 intermingled with the private land, along with small parcels of park and recreation areas west of
35 SR 85 (e.g., Buckeye Hills Regional Park). The Gila River Terraces and Lower Gila Historic
36 Trails ACEC is prevalent in linear blocks in the Study Area, spanning the Gila River on BLM
37 lands from edge-to-edge of the Study Area, following the west edge of the Study Area along the
38 river corridor down to Gila Bend. Several blocks of Arizona Game and Fish Department (AGFD)
39 deeded lands are managed as state wildlife areas throughout the ACEC.

40 In the North Section, land within the City of Buckeye and the Town of Wickenburg planning
41 areas is predominantly private land, State Trust land, and BLM land; some parcels of
42 Reclamation land are located along the Central Arizona Project (CAP) canal. VMRA is located
43 south of US 60 between Buckeye and Wickenburg, a 110-square-mile area owned by BLM and
44 managed in cooperation with Maricopa County. The Vulture Mountains ACEC is within the
45 VMRA. The Flood Control District of Maricopa County operates several flood-retardant

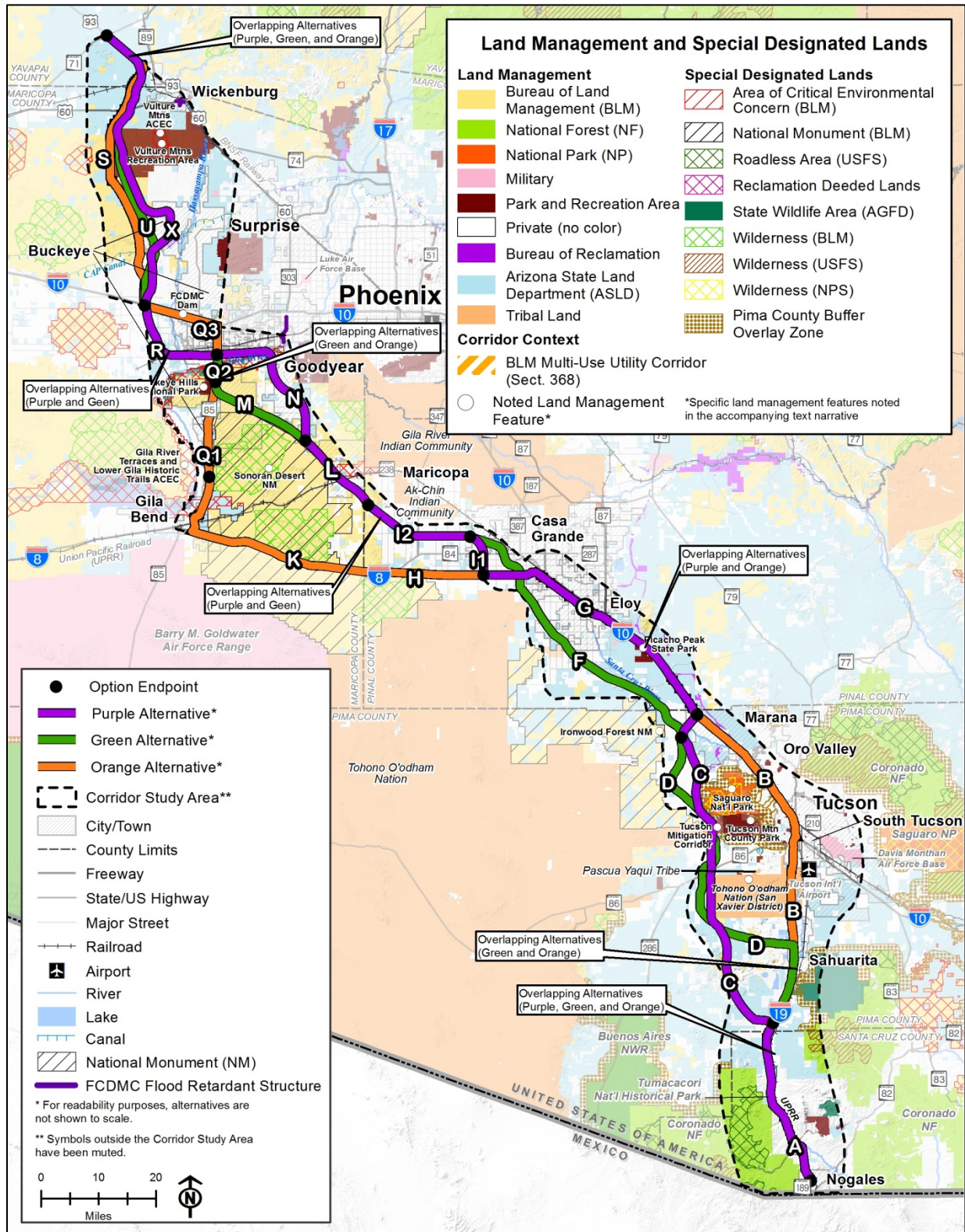


Figure 3.3-4 Land Management and Special Designated Lands



1 structures on the east side of the Study Area as well as an 8-mile dam to interrupt and redirect
2 overland stormwater flows on the north side of I-10.

3 **3.3.1.4 Environmental Consequences**

4 At the Tier 1 EIS level, environmental consequences are evaluated within a 2,000-foot-wide
5 Project Area for each Build Corridor Alternative. To accommodate a new transportation corridor,
6 portions of the alternative may need to be rezoned through the local development process,
7 which could alter adjacent planned land uses from what is envisioned today. A higher probability
8 exists for changes to planned land uses or displacement of existing uses where new corridor
9 development would occur, and new rights-of-way would need to be acquired. This would be the
10 case under any of the Build Corridor Alternatives, and would be better understood during Tier 2
11 studies, which would include detailed analysis of right-of-way (ROW) impacts.

12 The I-11 transportation corridor ultimately could be located anywhere within the 2,000-foot-wide
13 Project Area, and is expected to generally occupy approximately a 400-foot (or less, in the case
14 of existing transportation facilities or other design commitments) ROW footprint. The Build
15 Corridor Alternatives could make improvements within the existing and proposed rights-of-way,
16 which could result in changes to existing land uses in newly acquired lands. Within the
17 2,000-foot-wide Project Area, specific land uses or properties that could be affected, and the
18 extent to which they could be affected, cannot be adequately determined until Tier 2, when
19 detailed alignments are identified.

20 Indirect land use impacts of the Build Corridor Alternatives have the potential to extend beyond
21 the proposed ROW and might affect accessibility, community cohesion, economics, air quality,
22 biology, noise, cultural, and visual resources, among others. Other sections of this Draft Tier 1
23 EIS discuss these impacts related to land use; see Section 3.17 (Indirect and Cumulative
24 Effects).

25 Overall, the Build Corridor Alternatives are anticipated to benefit commercial, industrial, and
26 related land uses by improving the capacity of the transportation system and retaining or
27 granting new local access, especially to large regional facilities (e.g., shopping centers,
28 business parks, and industrial parks) located near access points. Proposed improvements
29 would reduce travel time and delay in urban areas, and shorten periods of congestion to make
30 travel times more predictable. These transportation benefits would increase the prosperity and
31 economic competitiveness of large employers and businesses while stimulating new economic
32 development – both on existing and new corridors. Additionally, the development of new
33 transportation junctions (i.e., intersection of I-11 with other high-capacity transportation
34 facilities), could spur focused, economically productive uses, such as major employment
35 centers, and meet the I-11 Purpose and Need.

36 This section will identify the key locations along each Build Corridor Alternative where major
37 land use impacts are likely to occur due to creation of new transportation junctions or new
38 development activity. This section also will identify planned land uses along the Build Corridor
39 Alternatives that could be avoided when determining the recommended I-11 route.

40 **Purple Alternative**

41 The Purple Alternative is composed of Options A, C, G, I, L, N, R, and X. This alternative is a
42 mix of existing and new corridor development.

1 Planned Land Use

2 Future land use designations were reviewed to quantify types of planned land uses within the
 3 Project Area that could be impacted (**Table 3.3-1** [Potential Planned Land Use Conversion
 4 Impacts – Purple Alternative]). Depending on the alignment location within the 2,000-foot-wide
 5 Project Area, which would be determined during Tier 2 environmental studies, consequences to
 6 planned land uses could vary. This analysis provides a qualitative assessment of which portions
 7 of the alternative are more likely to be impacted based on whether an Option provides the
 8 opportunity for co-location with an existing transportation facility; an assessment of areas within
 9 the Project Area that should be avoided, if possible; and a discussion of areas along the
 10 alternative that are more likely to benefit from I-11.

Table 3.3-1 Potential Planned Land Use Conversion Impacts (acres) – Purple Alternative

Planned Land Use	Corridor Option								Total	% Total
	A	C	G	I1/I2	L	N	R	X		
Residential	1,032	10,153 ⁽¹⁾	4,127	5,483	1,203	3,279	3,033	2,309	30,620	49
Agriculture	1,215	0	0	0	0	0	0	0	1,215	2
Tribal Lands	0	0	0	0	0	0	0	0	0	0
Commercial	483	212	1,938	262	39	166	269	363	3,732	6
Industrial	221	325	3,386	478	84	177	288	0	4,961	8
Mixed Use	298	22	0	0	912	1,546	520	2,668	5,966	9
Office	0	0	0	0	199	74	4	59	337	1
Recreation/Open Space	64	3,316 ⁽¹⁾	837	63	1,186	437	0	4,985	10,889	17
Public/Private Institutions	0	0	453	0	7	77	8	18	563	1
Transportation/Parking	0	11	207	0	15	144	123	86	586	1
Vacant ⁽²⁾	1,479	0	0	0	0	0	0	0	1,479	2
Unclassified ⁽²⁾	2,174	0	0	0	0	0	0	0	2,174	3
Waterbodies	0	0	0	0	3	305	34	55	397	1

(1) 9,722 acres residential and 3,479 acres recreation/open space if the CAP Design Option is selected.

(2) Per direction from Santa Cruz County, the same land uses are illustrated for existing and planned scenarios.

NOTE: Planned land uses are likely to evolve and change, depending on market demand and community needs. Acreages listed for the Project Area are based on current general or comprehensive plans and may not reflect actual land uses in the future.

11 **Figure 3.3-6** (Planned Land Uses – Purple Alternative, South Section) displays planned land
 12 uses in the South Section; noted land use features are labeled for context.

13 New development is likely to occur at the new transportation junctions where Options A and C
 14 meet, just north of the Santa Cruz-Pima County line, as well as where I-11 would meet I-10
 15 north of Marana, where Options C and G intersect. Both locations may attract development from
 16 convenience commercial to freight/industrial uses in the vicinity of the system interchanges,
 17 which would be deviations from planned residential growth. Along Option C, the CAP Design
 18 Option would traverse a similar mix of planned residential and open space/recreation lands. The
 19 major difference is that the CAP Design Option would avoid impacting properties associated
 20 with the City of Tucson’s CAVSARP/SAVSARP facilities.

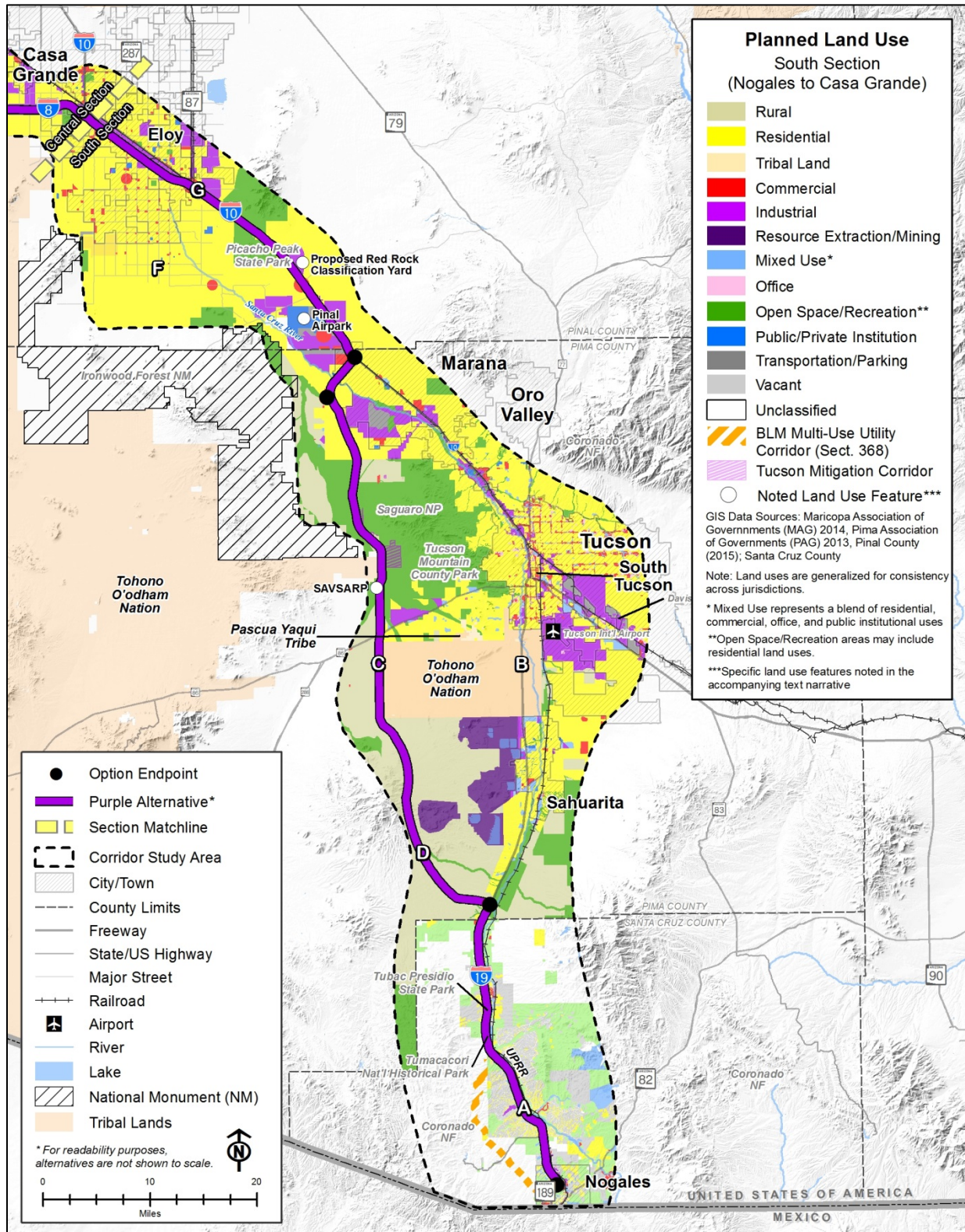


Figure 3.3-5 Planned Land Uses – Purple Alternative, South Section



1 The section of I-10 where Option G follows the existing I-10 from just north of the Pinal
2 County/Pima County line to the I-8 interchange is already six lanes wide, and no major land use
3 impacts are anticipated. Co-location of I-11 with I-10 could, however, increase the development
4 potential of properties in and near the Pinal Airpark and UPRR's proposed Red Rock
5 Classification Yard – both potentially major freight hubs that could take advantage of the
6 interstate's transcontinental route and parallel Class 1 rail facility. These two developments
7 would attract truck and other intermodal traffic.

8 Option G in the Central Section continues from I-10 to I-8, to approximately Montgomery Road.
9 Increased development is expected surrounding the I-8/I-10 system interchange. As
10 improvements to the interchange are already planned, minimal direct impacts to surrounding
11 land uses are expected with the addition of I-11. However, new growth can be expected in
12 Dreamport Villages, an entertainment and mixed-use village located west of I-10 where it spans
13 I-8. New growth of the existing Phoenix Mart along Casa Grande La Palma Highway (SR 287),
14 a distribution, warehousing, and business park attracting freight uses, also would be expected.
15 **Figure 3.3-6** (Planned Land Uses – Purple Alternative, Central Section) displays planned land
16 uses in the Central Section; noted land use features are labeled for context.

17 Today, Option I is almost entirely comprised of vacant and agricultural lands; however, it is
18 mostly planned as future residential development. This Option also is the route of the proposed
19 West Pinal Freeway (as documented in the *Pinal Regional Transportation Plan* and referenced
20 in Section 3.3.1.3, Land Use Plans and Policies). Depending on the status of future land
21 development and/or ROW set asides, residential impacts may or may not occur. Additionally,
22 Option I skirts the southern edge of the Nissan Proving Grounds. In western Pinal County,
23 Option I is expected to sit between two clusters of the proposed Palo Verde Regional Park.

24 Option L partially parallels the northeast edge of the SDNM and passes through large portions
25 of planned residential and recreational/open space uses, which would likely be bifurcated by
26 I-11. Planned uses near Mobile, which include smaller parcels of commercial, office, industrial,
27 and mixed uses, could be impacted. Previous master-planning endeavors incorporated ROW for
28 a new interstate-level facility through this community (Amaranth), so enhancement opportunities
29 could be coordinated with ongoing development plans.

30 A large part of Option N traverses planned residential land within Goodyear (Estrella Master
31 Planned Community, as shown on **Figure 3.3-7** (Planned Land Uses – Purple Alternative,
32 Central Section) and discussed in Section 3.3.1.3, Master Planned Communities. Mixed uses
33 also line the corridor, with clusters of commercial, industrial, and recreational/open space uses.
34 Option N was identified as a freeway corridor within the Goodyear General Plan as well as the
35 master plan for Estrella, and is unlikely to adversely impact planned land uses if it generally
36 follows the same alignment as identified in the Goodyear General Plan. In this area, Option N
37 would follow a potential Corridor Option under consideration for the proposed SR 303L South
38 Extension (Rainbow Valley Alignment). Option N turns west immediately north of the Gila River.
39 At this location, I-11 would connect with the future SR 30, which would create a major
40 transportation junction that is likely to attract commercial and industrial activities in the vicinity,
41 leading to potential changes to planned land uses, which are primarily residential.

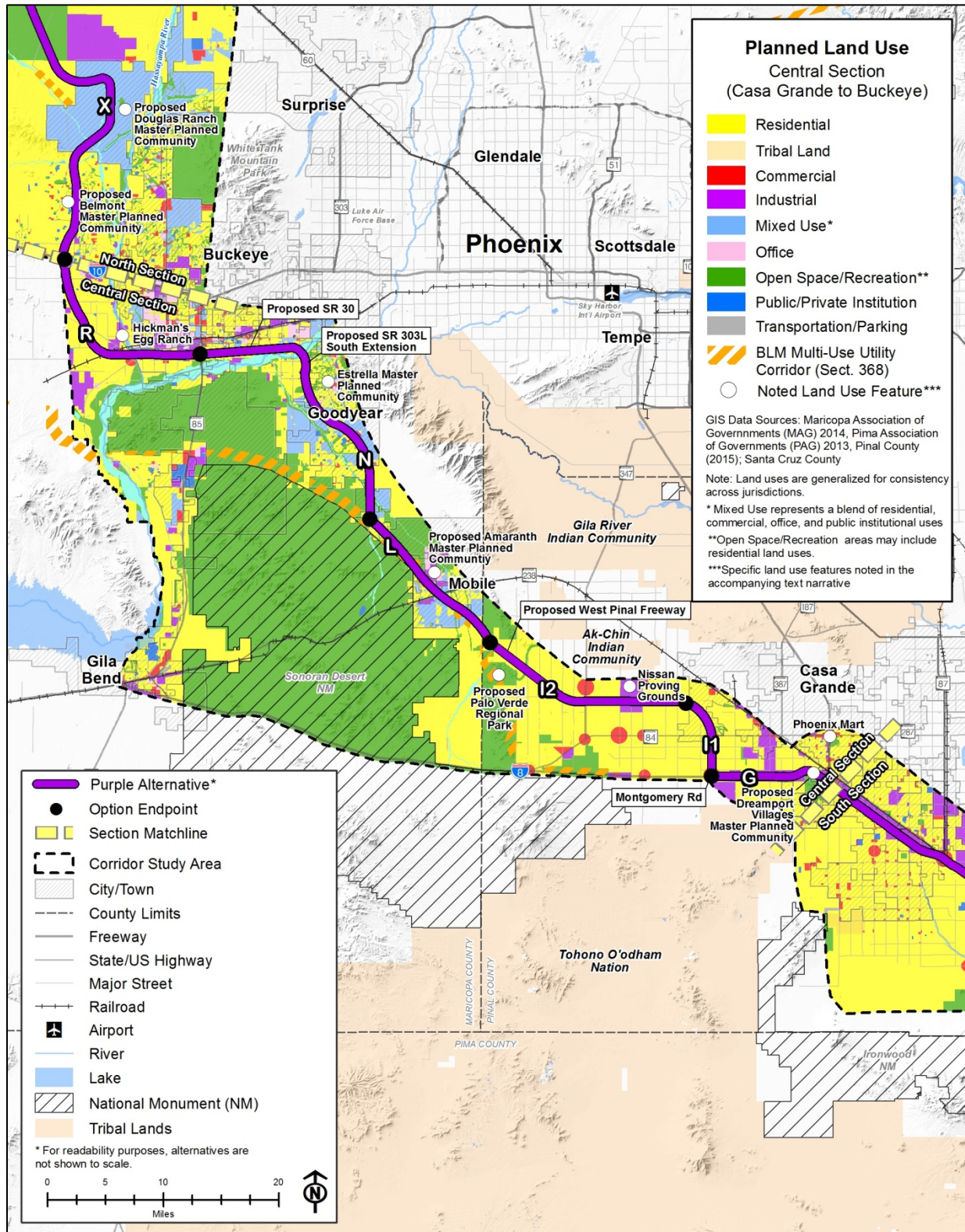


Figure 3.3-6 Planned Land Uses – Purple Alternative, Central Section



1 Option R consists of planned residential areas on the west side of Buckeye, along with a mix of
2 industrial, mixed-use, and office uses, mostly closer to its junction with SR 85 or I-10. These
3 uses generally include existing agricultural operations, including Hickman’s Egg Ranch, which is
4 located just north of the bend in Option R.

5 **Figure 3.3-8** (Planned Land Uses – Purple Alternative, North Section) displays planned land
6 uses in the North Section; noted land use features are labeled for context. This alternative
7 follows Option X, which loops through the Belmont and Douglas Ranch master-planned
8 communities and is consistent with the proposed Hassayampa Freeway corridor, which
9 originated in the *MAG I-10/Hassayampa Valley Regional Transportation Framework Study*. This
10 freeway corridor has been adopted in local circulation planning by the City of Buckeye and
11 Maricopa County. As drawn, this corridor is ultimately planned to link with a proposed east-west
12 freeway corridor north of and parallel to Bell Road (White Tanks Freeway). In this southern
13 portion of the North Section, most of the Project Area is designated as planned mixed use. If it
14 generally follows the same route as planned, minimal impacts are envisioned. Any deviations
15 from this route would be less compatible with transportation and land use planning in Buckeye
16 and Maricopa County. Closer to I-10, scattered areas of residential development exist today and
17 are planned to be expanded, which could result in potential property takes. To the north, this
18 alternative crosses the VMRA within a designated BLM multi-use utility corridor, paralleling an
19 existing electric transmission line. North of this area, planned land uses are generally open
20 space and recreation uses, with small pockets of residential development.

21 *End-to-End Considerations*

22 The Purple Alternative is not likely to cause major adverse effects to land uses along the
23 corridor, and in many respects, responds to them. In many sections, this alternative mirrors a
24 previously planned freeway facility, and therefore local planning efforts are already oriented
25 around such a future transportation facility. Through some developed areas (e.g., Casa Grande,
26 Mobile, Goodyear, and Buckeye), impacts may occur to the extent that I-11 would promote
27 different, non-residential uses in areas planned for rural residential. The determination of likely
28 impacts depends on the timing of I-11 construction versus the pace of future development in
29 local communities.

30 New transportation junctions created with existing highways (e.g., I-19 south of Sahuarita, I-10
31 north of Marana, I-8 west of I-10, SR 85 south of I-10, and I-10 west of SR 85) may create
32 opportunities for new development and growth along I-11.

33 Land Management and Special Designated Lands

34 Land management designations were reviewed to quantify land with special designations that
35 are located within the Project Area and therefore could be impacted and converted to a
36 transportation use (**Table 3.3-2** [Potential Land Management Conversion Impacts – Purple
37 Alternative]. **Figure 3.3-9** [Land Management and Special Designated Lands – Purple
38 Alternative]) displays Study Area land management patterns; noted features are labeled for
39 context.

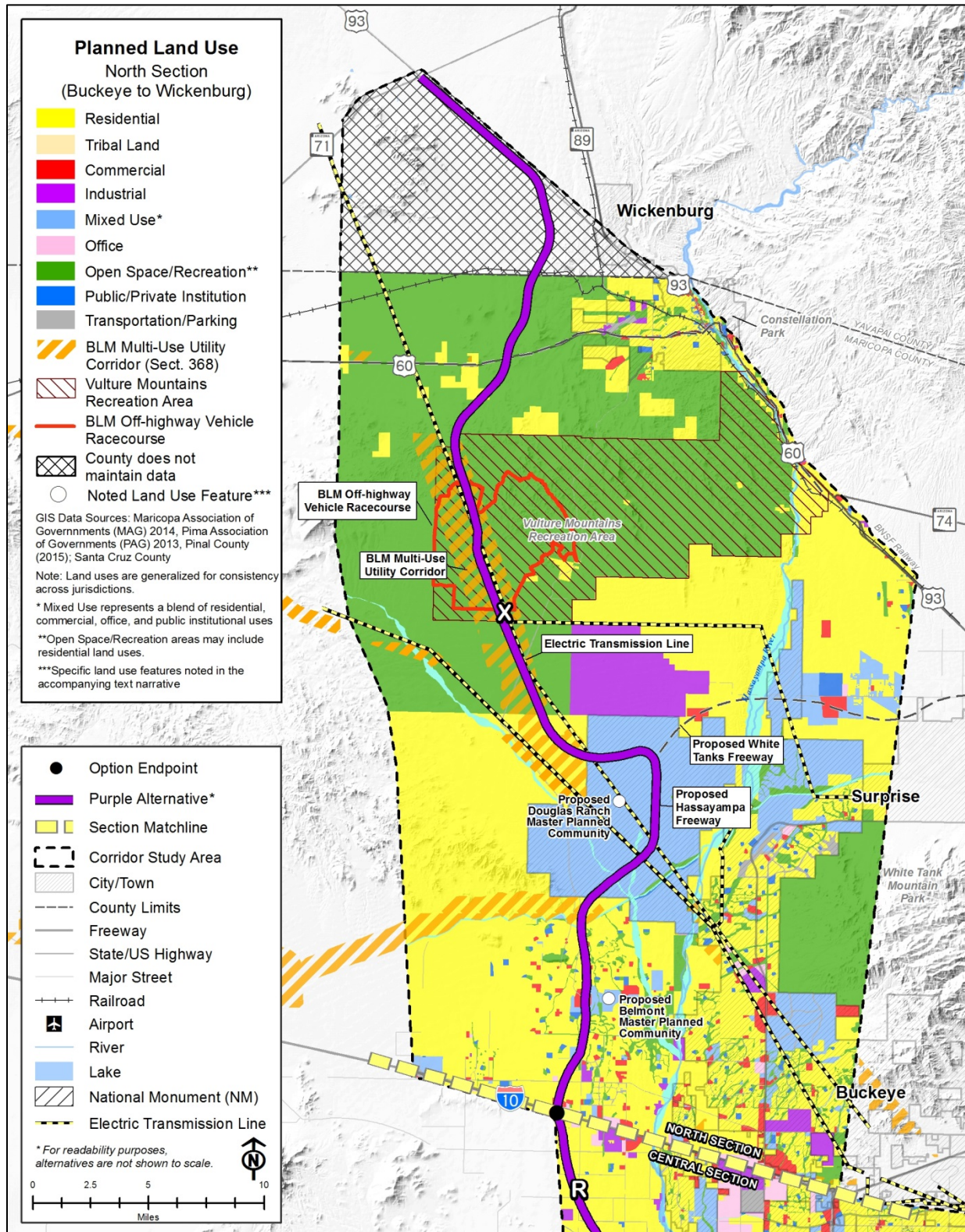


Figure 3.3-7 Planned Land Uses – Purple Alternative, North Section



Table 3.3-2 Potential Land Management Conversion Impacts (acres) – Purple Alternative

Land Management	Build Corridor Option								Total	% Total
	A	C	G	I1/I2	L	N	R	X		
BLM	0	528 ⁽¹⁾	0	0	1,387	198	67	3,741	5,921	9
National Forest	0	0	0	0	0	0	0	0	0	0
NPS	0	0	0	0	0	0	0	0	0	0
Military	0	0	0	0	0	0	0	0	0	0
Park and Recreation Area	0	0	202	0	0	0	0	1,913	2,115	3
Private Land	6,623	8,914 ⁽¹⁾	7,702	6,060	2,056	4,860	3,270	4,108	43,593	65
Reclamation	0	0	0	0	0	0	0	0	0	0
State Trust Land	331	4,659 ⁽¹⁾	3,026	224	203	1,147	899	5,377	15,866	23
Tribal Land	0	0	0	0	0	0	0	0	0	0
Area of Critical Environmental Concern (BLM)	0	0	0	0	610	243	0	0	853	
National Monument (BLM)	0	0	0	0	0	0	0	0	0	
Roadless Area (US Forest Service [USFS])	0	0	0	0	0	0	0	0	0	
Reclamation – Deeded Lands	0	453 ⁽¹⁾	0	0	0	0	0	0	453	
State Wildlife Area (AGFD)	0.5	0	0	0	0	42	0	0	43	
Wilderness (BLM)	0	0	0	0	0	0	0	0	0	
Wilderness (NPS)	0	0	0	0	0	0	0	0	0	
Wilderness (USFS)	0	0	0	0	0	0	0	0	0	

- (1) 8,773 acres private land and 4,530 State Trust land if the CAP Design Option is selected; no changes in total acreage impacts to BLM and Reclamation deeded lands (TMC) if the CAP Design Option is selected.
- (2) Percent totals are not included for Special Designated Lands, as these are overlays to the underlying ownership patterns and do not cover the entire Study Area.

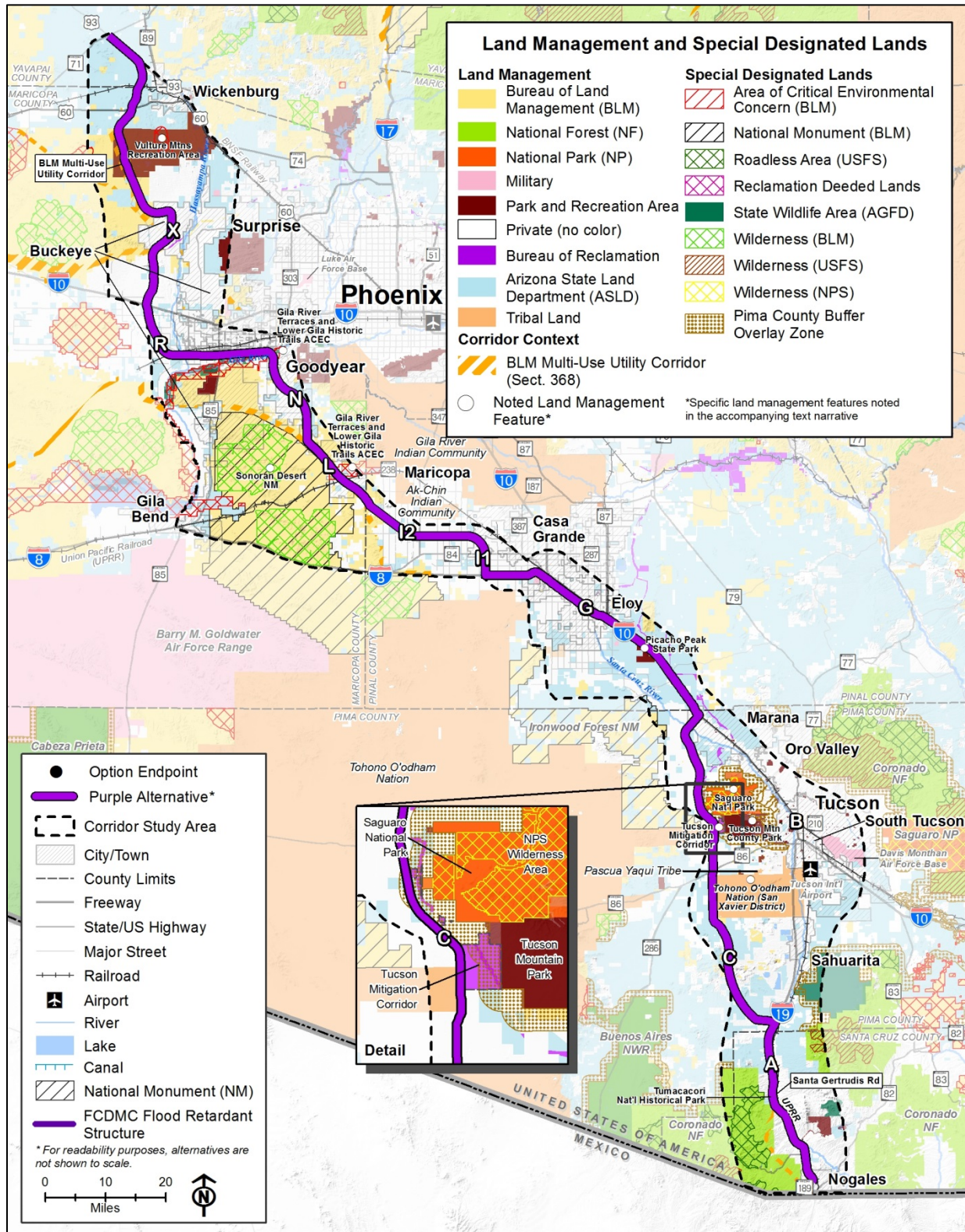


Figure 3.3-8 Land Management and Special Designated Lands – Purple Alternative



1 The Purple Alternative in the South Section is composed of Options A, C, and G. The majority of
2 the land along Option A consists of private land, with the exception of 331 acres of State Trust
3 land spanning the existing interstate in the vicinity of Santa Gertrudis Lane and Tumacacori
4 National Historical Park. A portion of Tumacacori National Historical Park is within the eastern
5 edge of the 2,000-foot-wide corridor.

6 Option C turns to the west of I-19 and I-10 in Pima County, and is a mix of private and State
7 Trust lands, with a few parcels of BLM land and a cluster of special designated uses. Option C
8 parallels the western edge of the Tohono O’odham Nation (San Xavier District), but no portion
9 of the corridor is on Tribal land.

10 Due to the various special designated uses located in close vicinity along Option C, limited
11 flexibility exists in terms of where I-11 could be located to avoid impacts to these lands (e.g., the
12 TMC, SNP, and Tucson Mountain Park). Option C would traverse the TMC, along its western
13 edge. The CAP Design Option also would traverse the TMC, paralleling the CAP canal.
14 Additionally, Option C is located within close proximity to the Ironwood Forest National
15 Monument, which is a Special Recreation Management Area. Selection of the Purple Alternative
16 could potentially adversely impact recreational users. Also, Option C could intersect
17 approximately 956 acres of the Pima County Buffer Overlay Zone.

18 Option G is a mix of State Trust land (more to the south) and private land (more to the north),
19 with Picacho Peak State Park crossing I-10 in the Study Area at its northeastern edge for
20 approximately 1.2 miles. Minimal impact to adjacent lands is expected, as both I-8 and I-10 are
21 existing interstate highways, with no widening expected outside the existing ROW.

22 Option I in the Central Section is almost entirely comprised of private land, with the exception of
23 a few parcels of State Trust lands. Private lands are likely to be most impacted by a new
24 transportation corridor, depending on the pace of future urban development.

25 Option L parallels the northeast edge of the SDNM and is a mix of private, BLM, and State Trust
26 lands. Short portions of Options L and N cross a portion of the Gila River Terraces and Lower
27 Gila Historic Trails ACEC. Option L consists of private land, while Option N traverses private
28 land and BLM lands in the area of the ACEC designation.

29 Option R is a mix of private land and State Trust lands, with small parcels of BLM land. Special
30 designations are not present in this area.

31 Option X in the North Section traverses BLM, State Trust, and private lands. It cuts through the
32 VMRA within a BLM multi-use utility corridor. This would create a direct impact on recreation
33 lands, but may be mitigated in coordination with BLM. North of the recreation area and closer to
34 Wickenburg, Option X is almost entirely on State Trust lands, where the development of I-11
35 may be considered a beneficial opportunity to generate value for trust beneficiaries.

36 *End-to-End Considerations*

37 The two primary areas with potential land conversion impacts on special designations along the
38 Purple Alternative are in the vicinity of the TMC (South Section) and VMRA (North Section).
39 Crossing these areas would be unavoidable under the Purple Alternative. These areas are
40 discussed further in **Chapter 4** (Preliminary Draft Section 4(f) Evaluation. Section 3.17 (Indirect
41 and Cumulative Effects) discusses direct and indirect impacts to the character of wilderness and
42 recreation areas.

1 The Gila River in the Central Section and related ACEC lands would be crossed by the corridor,
2 but related impacts may be avoided or minimized by locating the alignment away from sensitive
3 resources within the 2,000-foot-wide Project Area. The ACEC designation only applies to
4 BLM-managed lands. Impacts are most likely to occur on private and State Trust lands.

5 **Green Alternative**

6 The Green Alternative is composed of Options A, D, F, I, L, M, Q, R, and U. This alternative
7 consists primarily of new Corridor Options (i.e., it is not co-located with existing transportation
8 facilities).

9 **Planned Land Use**

10 Future land use designations were reviewed to quantify types of planned land uses within the
11 Project Area that could be impacted (**Table 3.3-3** [Potential Planned Land Use Conversion
12 Impacts – Green Alternative]). Depending on the alignment location within the 2,000-foot-wide
13 Project Area, which would be determined during Tier 2 environmental studies, consequences to
14 planned land uses could vary. This analysis provides a qualitative assessment of which portions
15 of the alternative are more likely to be impacted based on whether an Option provides the
16 opportunity to co-locate with an existing transportation facility; an assessment of areas within
17 the Project Area that should be avoided, if possible; and a discussion of areas along the
18 alternative that are more likely to benefit from I-11 construction.

Table 3.3-3 Potential Planned Land Use Conversion Impacts (acres) – Green Alternative

Planned Land Use	Corridor Option									Total	% Total
	A	D	F	I2	L	M	Q	R	U		
Residential	1,032	8,406 ⁽¹⁾	11,013	5,483	1,203	274	2,536	3,033	3,043	36,024	51
Agriculture	1,215	0	0	0	0	0	0	0	0	1,215	2
Tribal Lands	0	0	0	0	0	0	0	0	0	0	0
Commercial	483	0	102	262	39	0	1,739	269	167	3,061	4
Industrial	221	119	976	478	84	1	991	288	0	3,159	5
Mixed Use	298	0	0	0	912	13	471	520	958	3,171	5
Office	0	0	0	0	199	0	741	4	93	1,036	1
Recreation/Open Space	64	3,380 ⁽¹⁾	25	63	1,186	4,143	1,463	0	4,933	15,257	22
Public/Private Institutions	0	6	19	0	7	0	192	8	28	261	0
Transportation/Parking	0	0	2	0	15	35	2,614	123	79	2,869	4
Vacant ⁽²⁾	1,479	0	0	0	0	0	0	0	0	1,479	2
Unclassified ⁽²⁾	2,174	0	0	0	0	0	0	0	0	2,174	3
Waterbodies	0	0	0	0	3	14	266	34	86	402	1

(1) 8,136 acres residential and 3,303 acres recreation/open space if the CAP Design Option is selected.

(2) Per direction from Santa Cruz County, the same land uses are illustrated for existing and planned scenarios.

NOTE: Planned land uses are likely to evolve and change, depending on market demand and community needs. Acreages listed for the Project Area are based on current general or comprehensive plans and may not reflect actual land uses in the future.

1 **Figure 3.3-10** (Planned Land Uses – Green Alternative, South Section) displays planned land
2 uses in the South Section; noted land use features are labeled for context.

3 Options D and F generally are new corridors in Pima and Pinal counties. Option D turns west
4 from I-19 near Sahuarita, traveling west and north. Most of this area is currently vacant, with
5 scattered low-density residential development and several recreational areas and parklands.
6 Impacts to planned uses along Option D could include changes to planned residential and open
7 space clusters. Along Option D, the CAP Design Option would traverse a similar mix of planned
8 residential and open space/recreation lands. The major difference is that the CAP Design
9 Option would avoid impacting properties associated with the City of Tucson’s SAVSARP facility.
10 Additionally, Option D is located within close proximity to the Ironwood Forest National
11 Monument, which is a Special Recreation Management Area. Selection of this alternative could
12 potentially adversely impact recreational users.

13 Option F, continuing north from Option D in Pinal County, crossing I-8 at approximately Chuichu
14 Road and connecting to Option I2 at Barnes Road, also mostly traverses land that is vacant
15 today but that is planned for residential development in the future. Option F would travel directly
16 west of the Pinal Airpark activity center, providing access to this industrial development cluster.

17 **Figure 3.3-11** (Planned Land Uses – Green Alternative, Central Section) displays planned land
18 uses in the Central Section; noted land use features are labeled for context. Like the Purple
19 Alternative, the Green Alternative uses Options I2 and L through Pinal County and southeastern
20 Maricopa County. Today, Option I consists almost entirely of vacant and agricultural lands;
21 however, it is mostly planned as future residential development. Option I also is the route of the
22 proposed West Pinal Freeway corridor (as documented in the *Pinal Regional Transportation*
23 *Plan*, and referenced in Section 3.3.1.3, Land Use Plans and Policies). Depending on the status
24 of future land development and/or ROW set asides, residential impacts may or may not occur.
25 Additionally, Option I skirts the southern edge of the Nissan Proving Grounds. In western Pinal
26 County, Option I is expected to sit between two clusters of the proposed Palo Verde Regional
27 Park.

28 Option L partially parallels the northeast edge of the SDNM and passes through large portions
29 of planned residential and recreational/open space uses, which would likely be bifurcated by the
30 I-11. Planned uses near Mobile, which include smaller parcels of commercial, office, industrial,
31 and mixed uses, could be impacted. Previous master-planning endeavors have incorporated
32 ROW for a new interstate-level facility through this community (Amaranth), so enhancement
33 opportunities, if coordinated with ongoing development plans, remain.

34 Option M is a continuation of Option L, paralleling the SDNM on the north side. Options I2, L,
35 and M are consistent with the proposed Hassayampa Freeway corridor, which originated in the
36 *MAG I-10/Hassayampa Valley Transportation Framework Study*. Much of Option M runs
37 through planned recreational areas and open space, with minimal anticipated impact on
38 residential, mixed-use, and transportation-related land uses. Where Option M meets Option Q at
39 SR 85, it turns north to avoid impacts to an existing landfill, prison complex, power substation,
40 and planned solar facility.

41 The southern half of Option Q2 is a short section of SR 85 that connects Options M and R and
42 crosses the Gila River. New transportation junctions created with SR 85 may attract increased
43 commercial or industrial development, especially at the junction of Options Q2 and R near
44 MC-85, the UPRR Wellton Branch corridor, and a planned economic activity center in Buckeye,
45 surrounding the municipal airport.

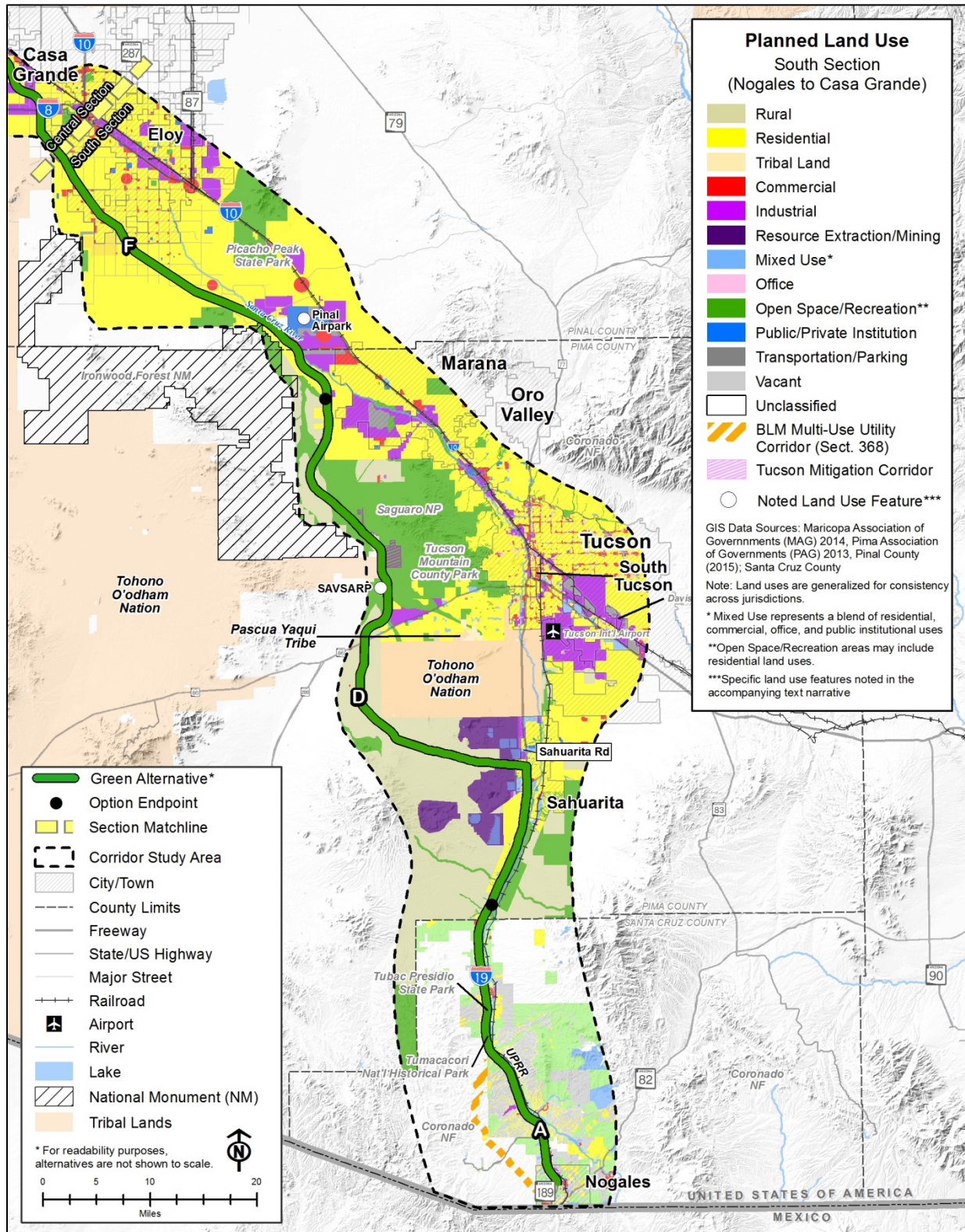


Figure 3.3-9 Planned Land Uses – Green Alternative, South Section

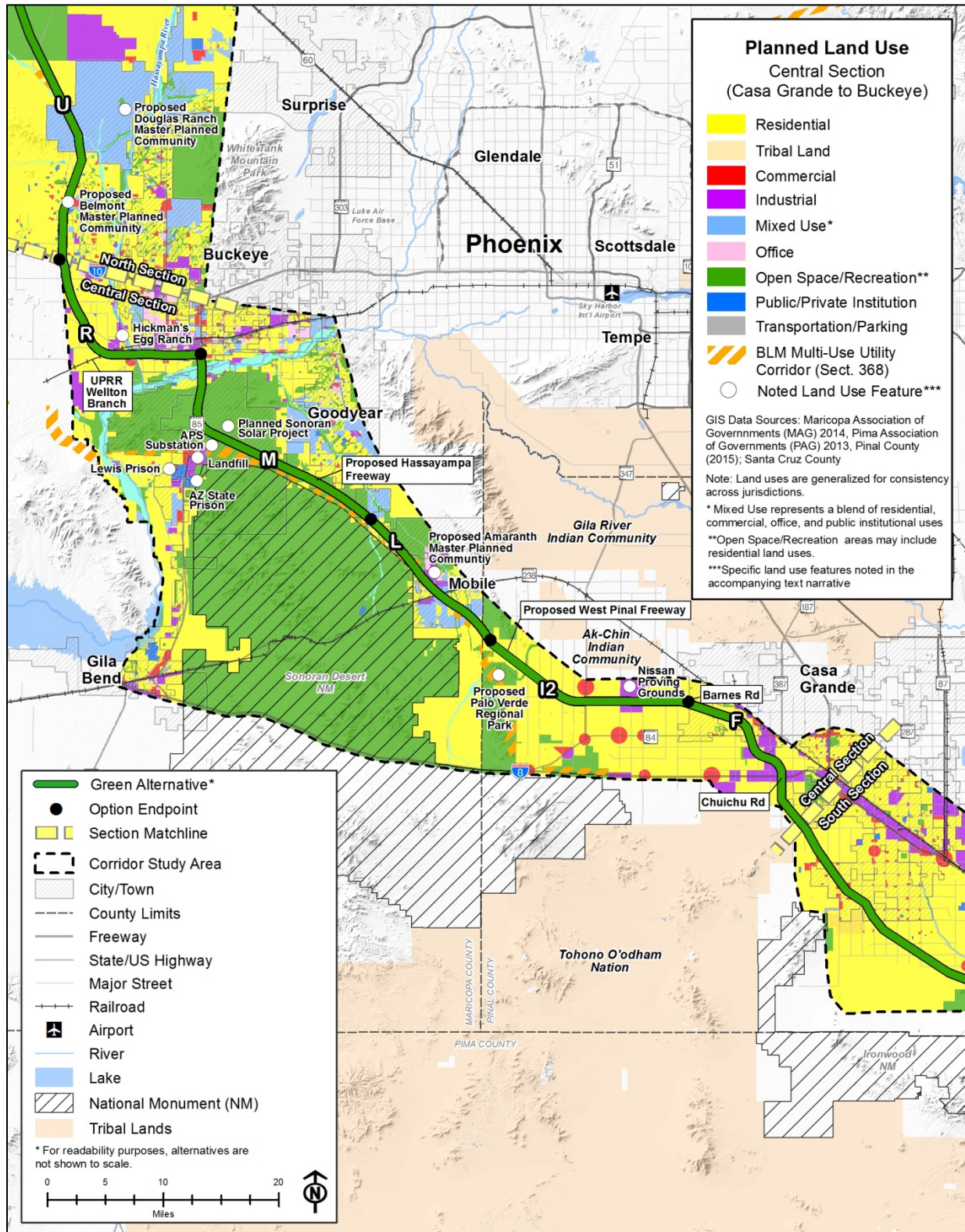


Figure 3.3-10 Planned Land Uses – Green Alternative, Central Section

1 Option R consists of planned residential areas on the west side of Buckeye, along with a mix of
 2 industrial, mixed-use, and office uses, mostly closer to its junction with SR 85 or I-10. These
 3 uses generally include existing agricultural operations, located just north of the bend in
 4 Option R.

5 Option U in the North Section is a continuation of Option R north of I-10. This Corridor Option
 6 crosses the VMRA on the western side of the BLM multi-use corridor. South of the recreation
 7 area, most of the land is vacant today, with scattered clusters of low-density development.
 8 Future plans are primarily for expanded residential development and clusters of mixed-use,
 9 commercial, and industrial development in the planned communities of Belmont and Douglas
 10 Ranch. This route does not follow any approved transportation corridor plans in either master-
 11 planned community. **Figure 3.3-12** (Planned Land Uses – Green Alternative, North Section)
 12 shows the planned land uses in the North Section; noted land use features are labeled for
 13 context.

14 North of the recreation area, Option U mostly traverses planned open space and recreation
 15 land. However, deviations in planned land uses may occur at its junctions with US 60, US 93,
 16 and the Arizona and California Railroad short line corridor, which could promote employment-
 17 generating land uses. Yavapai County does not maintain a plan for future land use in this area,
 18 but development patterns are expected to generally mirror Maricopa County’s, with planned
 19 open space and residential development and clusters of commercial development along US 93.

20 *End-to-End Considerations*

21 The Green Alternative consists almost entirely of new corridor development. Today, much of the
 22 land along the proposed Project Area is vacant or sparsely developed, with clusters of low-
 23 density residential and commercial development. New transportation junctions may create
 24 opportunities for new urban development and growth along the alternative. However, the most
 25 likely anticipated impacts would be on planned residential land uses.

26 Land Management and Special Designated Lands

27 Land management designations were reviewed to quantify land with special designations that
 28 are located within the Project Area and therefore could be impacted and converted to a
 29 transportation use (**Table 3.3-4** [Potential Land Management Conversion Impacts – Green
 30 Alternative]). **Figure 3.3-13** (Land Management and Special Designated Lands – Green
 31 Alternative) displays land management patterns corridor-wide; noted features are labeled for
 32 context.

33 The Green Alternative in the South Section consists of Options A, D, and F. The majority of land
 34 along Option A is private land, with the exception of 331 acres of State Trust land spanning the
 35 existing interstate in the vicinity of Santa Gertrudis Lane and Tumacacori National Historical
 36 Park. A portion of Tumacacori National Historical Park is within the eastern edge of the
 37 2,000-foot-wide Project Area.

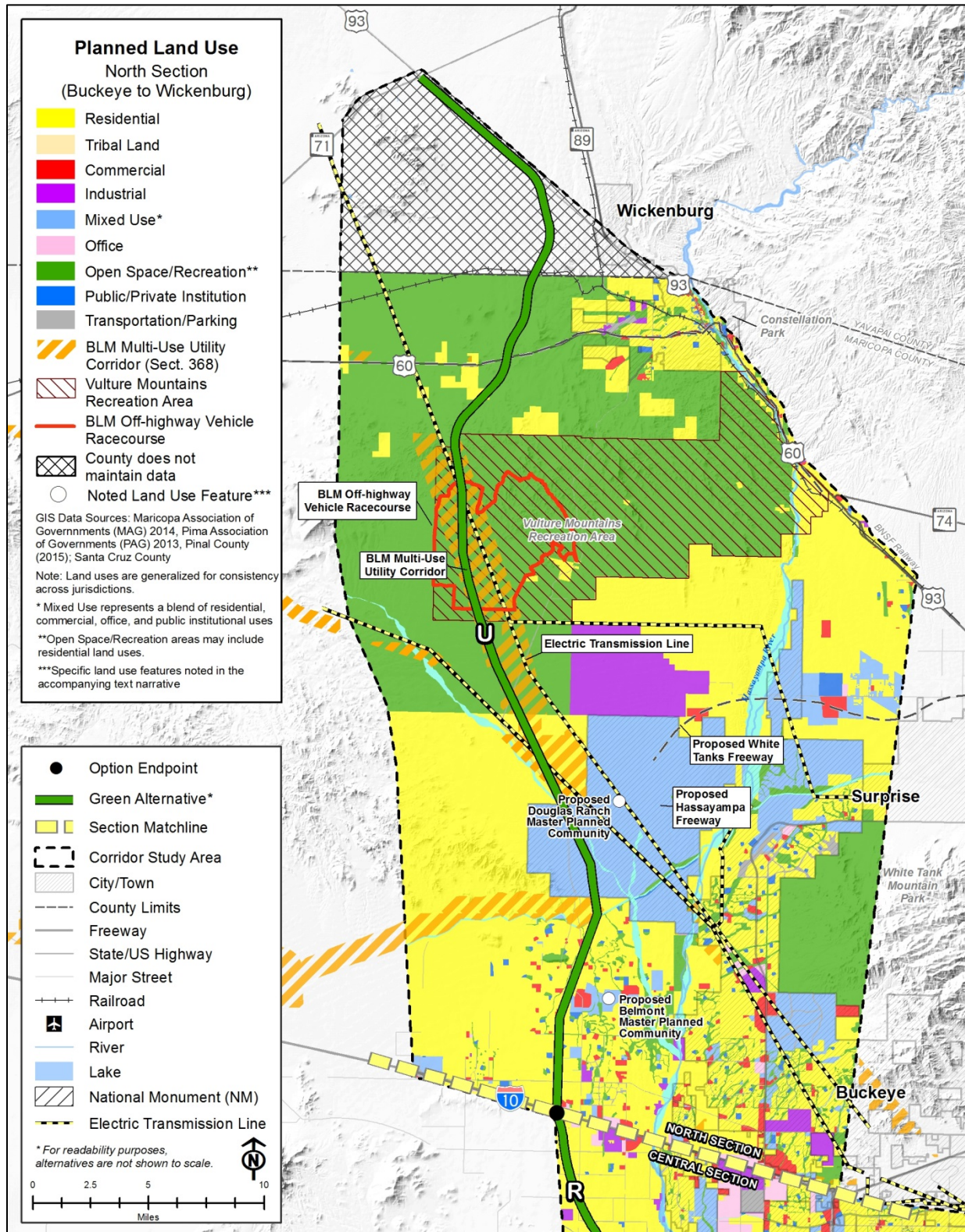


Figure 3.3-11 Planned Land Uses – Green Alternative, North Section



Table 3.3-4 Potential Land Management Conversion Impacts (acres) – Green Alternative

Land Management	Corridor Option									Total	% Total
	A	D	F	I2	L	M	Q	R	U		
BLM	0	600 ⁽¹⁾	0	0	1,387	4,109	1,366	67	3,830	11,359	15
National Forest	0	0	0	0	0	0	0	0	0	0	0
NPS	0	0	0	0	0	0	0	0	0	0	0
Military	0	0	0	0	0	0	0	0	0	0	0
Park and Recreation Area	0	0	0	0	0	83	375	0	1,856	2,314	3
Private Land	6,623	9,920 ⁽¹⁾	9,785	6,060	2,056	195	5,188	3,270	2,814	45,911	60
Reclamation	0	0	0	0	0	0	0	0	0	0	0
State Trust Land	331	5,007 ⁽¹⁾	2,546	224	203	92	2,106	899	5,427	16,835	22
Tribal Land	0	0	0	0	0	0	0	0	0	0	0
ACEC (BLM)	0	0	0	0	610	0	474	0	0	1,084	
National Monument (BLM)	0	0	0	0	0	0	0	0	0	0	
Roadless Area (USFS)	0	0	0	0	0	0	0	0	0	0	
Reclamation – Deeded Lands	0	452 ⁽¹⁾	0	0	0	0	0	0	0	452	
State Wildlife Area (AGFD)	0.5	0	0	0	0	0	278	0	0	279	
Wilderness (BLM)	0	0	0	0	0	0	0	0	0	0	
Wilderness (NPS)	0	0	0	0	0	0	0	0	0	0	
Wilderness (USFS)	0	0	0	0	0	0	0	0	0	0	

(1) 9,641 acres private land, 4,938 acres State Trust land, and 453 acres Reclamation deeded lands if the CAP Design Option is selected; no changes in total acreage impacts to BLM land if the CAP Design Option is selected.

(2) Percent totals are not included for Special Designated Lands, as these are overlays to the underlying ownership patterns and do not cover the entire Study Area.

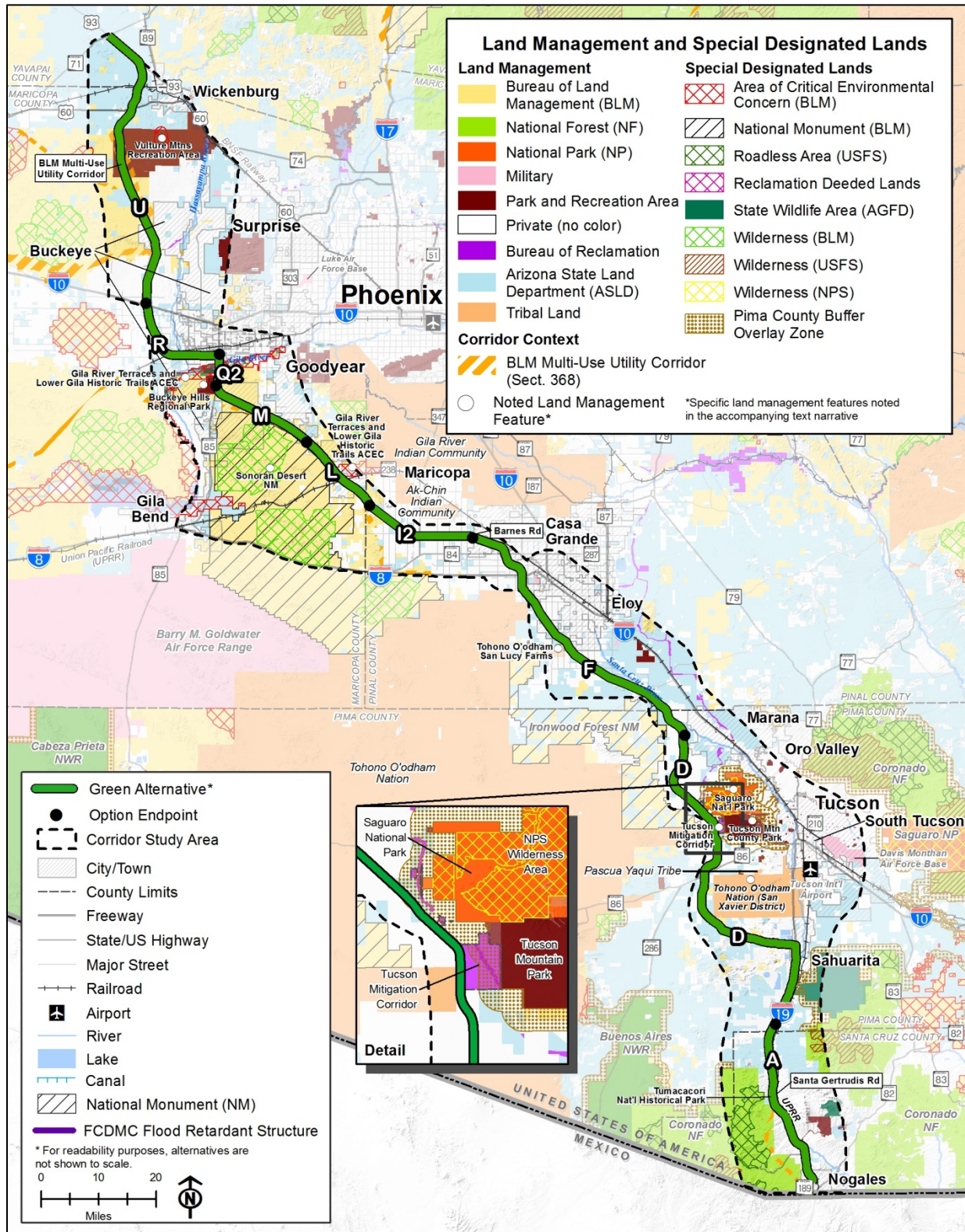


Figure 3.3-12 Land Management and Special Designated Lands – Green Alternative



1 Option D follows I-19 from near the Santa Cruz/Pima County line and diverts west from I-19
2 near El Toro Road in Sahuarita. Option D is a mix of private and State Trust lands, with a few
3 parcels of BLM land and a cluster of special designated uses. Due to the various special
4 designated uses located close to Option D, there is very limited flexibility in determining exactly
5 where I-11 could be located to avoid any adverse impacts to these lands (e.g., TMC, SNP, and
6 Tucson Mountain Park). The Project Area is proposed to traverse the TMC, coincident with its
7 western edge. The CAP Design Option also would traverse the TMC, paralleling the CAP canal.
8 North of this area, Option D is located close to the Ironwood Forest NM, but does not border or
9 cross it. Additionally, Option D could intersect approximately 723 acres of the Pima County
10 Buffer Overlay Zone.

11 Option F continues north from Option D in Pinal County, forming a new Corridor Option that
12 generally parallels I-10 to the south and west by about 8 miles. It mostly traverses private land,
13 but does traverse some larger blocks of State Trust land. Option F is located within close
14 proximity to the Ironwood Forest National Monument, which is a Special Recreation
15 Management Area. Selection of this Build Corridor Alternative could potentially adversely impact
16 recreational users.

17 Near Eloy, the Corridor Option is located close to, but does not cross, the Tohono O'odham
18 Nation San Lucy Farms, an agricultural operation. Option F crosses I-8 in the vicinity of Chuichu
19 Road, forming a new corridor through Casa Grande and connecting with Option I2 at Barnes
20 Road. Impacts to private lands and State Trust lands are expected.

21 Generally, the Project Area within the Central Section is a mix of BLM, State Trust, and private
22 lands. Private lands are likely to be most impacted by a new transportation corridor, depending
23 on the pace of future urban development.

24 The Option I2 Project Area consists almost entirely of private lands within Casa Grande.
25 Options L and M generally parallel the northeast edge of the SDNM, within the BLM multi-use
26 corridor, and pass through areas of BLM, State Trust, and private lands.

27 Similarly, most of the land along Option Q is private, State Trust, or BLM land. Near the junction
28 with Option M, the Buckeye Hills Regional Park is located directly adjacent to the west side of
29 SR 85 for 3 miles. To the north sits the Gila River Terraces and Lower Gila Historical Trails
30 ACEC as well as the Robbins Butte Wildlife Area, which is located within the I-11 Project Area
31 for 3 miles. These lands would be impacted if improvements are required outside the existing
32 SR 85 ROW.

33 Option R is a mix of private and State Trust lands, with small parcels of BLM land. Special
34 designations are not present in this area.

35 Option U in the North Section traverses BLM, State Trust, and private lands. It cuts through the
36 VMRA within a BLM multi-use utility corridor. This would create a direct impact on recreation
37 lands, but the impact may be mitigated in coordination with BLM. North of the recreation area
38 and closer to Wickenburg, Option U is almost entirely on State Trust lands, and thus corridor
39 development may be considered a beneficial opportunity to generate value for trust
40 beneficiaries.

41 *End-to-End Considerations*

42 The two primary areas with potential land conversion impacts on special designations along the
43 Green Alternative are in the vicinity of the TMC (South Section) and VMRA (North Section).

1 Crossing these areas would be unavoidable under the Green Alternative. These areas are
 2 discussed further in **Chapter 4** (Preliminary Draft Section 4(f) Evaluation). Direct and indirect
 3 impacts to the character of wilderness and recreation areas are discussed in Section 3.17
 4 (Indirect and Cumulative Effects).

5 The Gila River in the Central Section and related ACEC lands would be crossed by I-11, but
 6 related impacts may be minimized through mitigation for improvements that occur within or near
 7 the existing SR 85 ROW. The ACEC designation only applies to BLM-managed lands. Impacts
 8 are most likely to occur on private and State Trust lands.

9 **Orange Alternative**

10 The Orange Alternative is composed of Options A, B, G, H, K, Q, and S. This alternative
 11 consists mostly of existing interstate and highway corridors.

12 **Planned Land Use**

13 Future land use designations were reviewed to quantify types of planned land uses within the
 14 Project Area that could be impacted (**Table 3.3-5** (Potential Planned Land Use Conversion
 15 Impacts – Orange Alternative). Depending on the alignment location or definition of
 16 improvements to existing facilities within the 2,000-foot-wide Project Area, which would be
 17 determined during Tier 2 environmental studies, consequences to planned land uses could vary.
 18 This analysis provides a qualitative assessment of which portions of the alternative are more
 19 likely to be impacted based on whether an Option could be co-located with an existing
 20 transportation facility; an assessment of areas within the Project Area that should be avoided, if
 21 possible; and a discussion of areas along the alternative that are more likely to benefit from I-11
 22 construction.

Table 3.3-5 Potential Planned Land Use Conversion Impacts (acres) – Orange Alternative

Planned Land Use	Corridor Option							Total	% Total
	A	B	G	H	K	Q	S		
Residential	1,032	5,767	4,127	2,729	1,977	2,536	3,496	21,665	32
Agriculture	1,215	0	0	0	0	0	0	1,215	2
Tribal Lands	0	1,977	0	0	0	0	0	1,977	3
Commercial	483	809	1,938	947	730	1,739	198	6,845	10
Industrial	221	2,635	3,386	431	192	991	0	7,857	12
Mixed Use	298	647	0	0	0	471	552	1,969	3
Office	0	57	0	0	81	741	90	968	1
Recreation/Open Space	64	858	837	1,511	5,707	1,463	4,836	15,277	22
Public/Private Institutions	0	110	453	0	0	192	67	822	1
Transportation/Parking	0	1,333	207	0	1,304	2,614	26	5,484	8
Vacant ⁽¹⁾	1,479	0	0	0	0	0	0	1,479	2
Unclassified ⁽¹⁾	2,174	0	0	0	0	0	0	2,174	3
Waterbodies	0	0	0	0	45	266	109	420	1

(1) Per direction from Santa Cruz County, the same land uses are illustrated for existing and planned scenarios.

NOTE: Planned land uses are likely to evolve and change, depending on market demand and community needs. Acreages listed for the Project Area are based on current general or comprehensive plans and may not reflect actual land uses in the future.

1 **Figure 3.3-14** (Planned Land Uses – Orange Alternative, South Section) displays planned land
2 uses in the South Section; noted land use features are labeled for context. Options A, B, and G
3 in the South Section are all existing interstate highways (I-19 and I-10). Option A in the South
4 Section is a shared component of all three Build Corridor Alternatives.

5 Option B is composed of I-19 and I-10 in Pima County. I-19 passes through the San Xavier
6 District of the Tohono O’odham Nation. As documented in **Appendix I**, ADOT has a perpetual
7 transportation easement across the San Xavier District of the Tohono O’odham Nation for an
8 approximately 8-mile stretch of I-19 south of the I-19/I-10- system interchange.

9 Through central Tucson, Option B consists of a mix of planned land uses, including residential,
10 industrial, commercial, mixed-use, recreation/open space, public/private institutions, and
11 transportation/parking. A variety of scenarios for capacity improvements could occur on I-10 to
12 accommodate I-11 and forecasted traffic volumes (e.g., widening, elevated express lanes, or a
13 collector-distributor system). In most of these scenarios, the configuration of travel lanes,
14 auxiliary lanes, and frontage roads would be realigned, resulting in additional ROW needs of
15 varying widths. This area is densely developed today, and plans for future growth would
16 intensify existing land uses, increasing the land use impacts.

17 Where Option G follows the existing I-10 corridor from just north of the Pinal/Pima county line to
18 the I-8 interchange, this portion of I-10 is already six lanes wide. Co-location of I-11 with I-10
19 could increase the development potential of properties in and near the Pinal Airpark and
20 UPRR’s proposed Red Rock Classification Yard, which are both potential major freight hubs
21 that could take advantage of the interstate’s transcontinental route and parallel Class 1 rail
22 facility. These two developments would attract truck traffic and other intermodal traffic.

23 **Figure 3.3-15** (Planned Land Uses – Orange Alternative, Central Section) displays planned
24 land uses in the Central Section; noted land use features are labeled for context. Option H
25 follows I-8 to approximately the Pinal/Maricopa county line. Much of the adjacent land today is
26 vacant, but is planned for future residential development. Due to the available capacity,
27 improvements to I-8 are expected to occur within the existing ROW, avoiding or minimizing
28 impacts on adjacent uses within the Project Area.

29 The majority of Option K traverses the SDNM. Like Option H, improvements to I-8 are expected
30 to occur within the existing ROW, avoiding or minimizing impacts on adjacent uses within the
31 Project Area. A small portion of Option K would be constructed in Gila Bend to connect I-8 and
32 SR 85. This new portion may affect future residential and commercial uses; however, Gila
33 Bend’s General Plan reflects construction of this route.

34 Option Q (1, 2, 3) – SR 85 from Gila Bend to I-10, including a 12-mile portion of I-10 to
35 363rd Avenue, contains a mix of planned residential, commercial, recreational/open space, and
36 transportation-related land uses within the Project Area. Since the concept of this Option is to
37 co-locate with I-10, improvements would be expected near the existing facility, and land uses
38 have already developed that are consistent with a high-capacity roadway.

39 **Figure 3.3-16** (Planned Land Uses – Orange Alternative, North Section) displays planned land
40 uses in the North Section; noted land use features are labeled for context. Option S parallels the
41 western boundary of the VMRA. South of the recreation area, most of the land is vacant today,
42 with scattered clusters of low-density development.

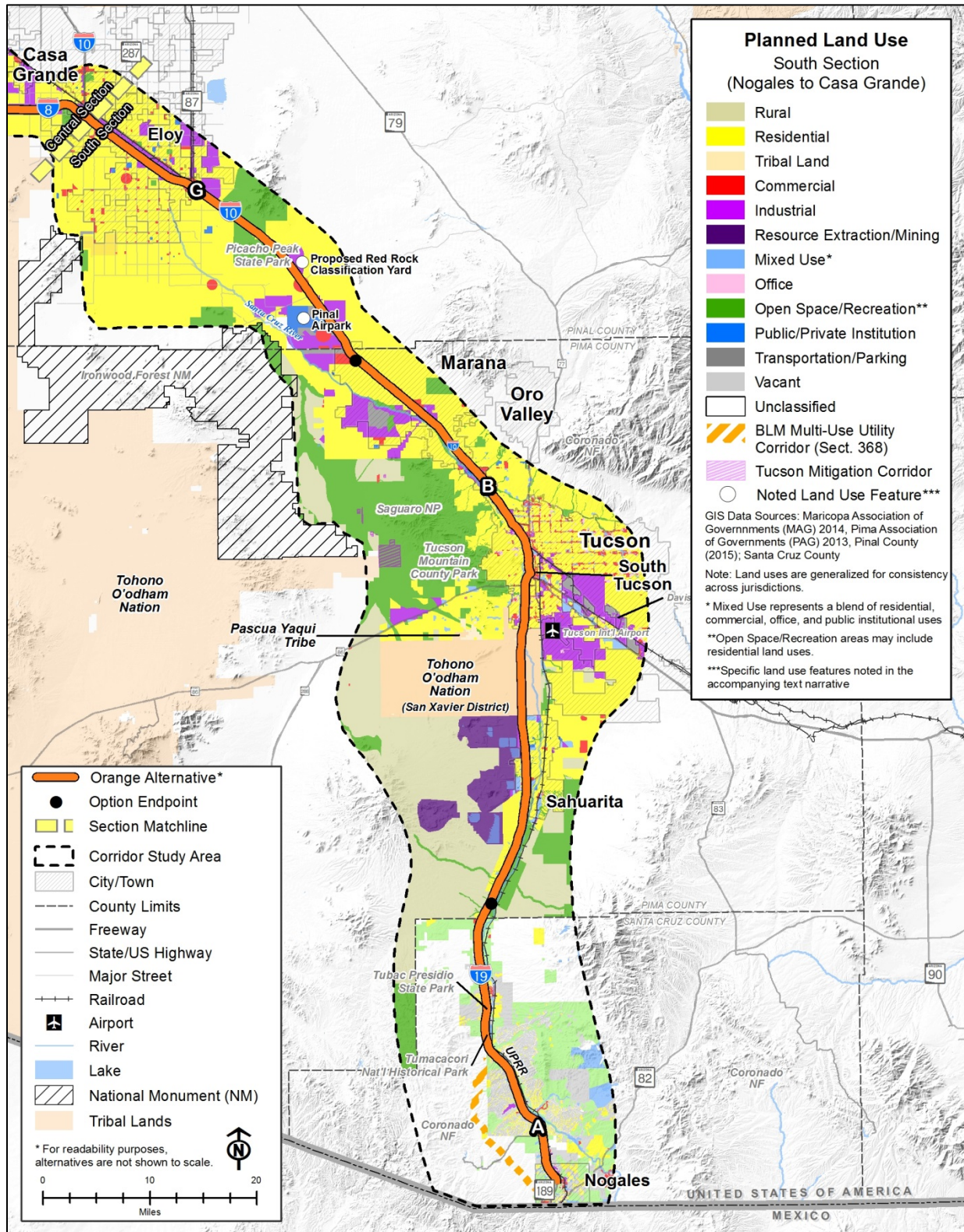


Figure 3.3-13 Planned Land Uses – Orange Alternative, South Section

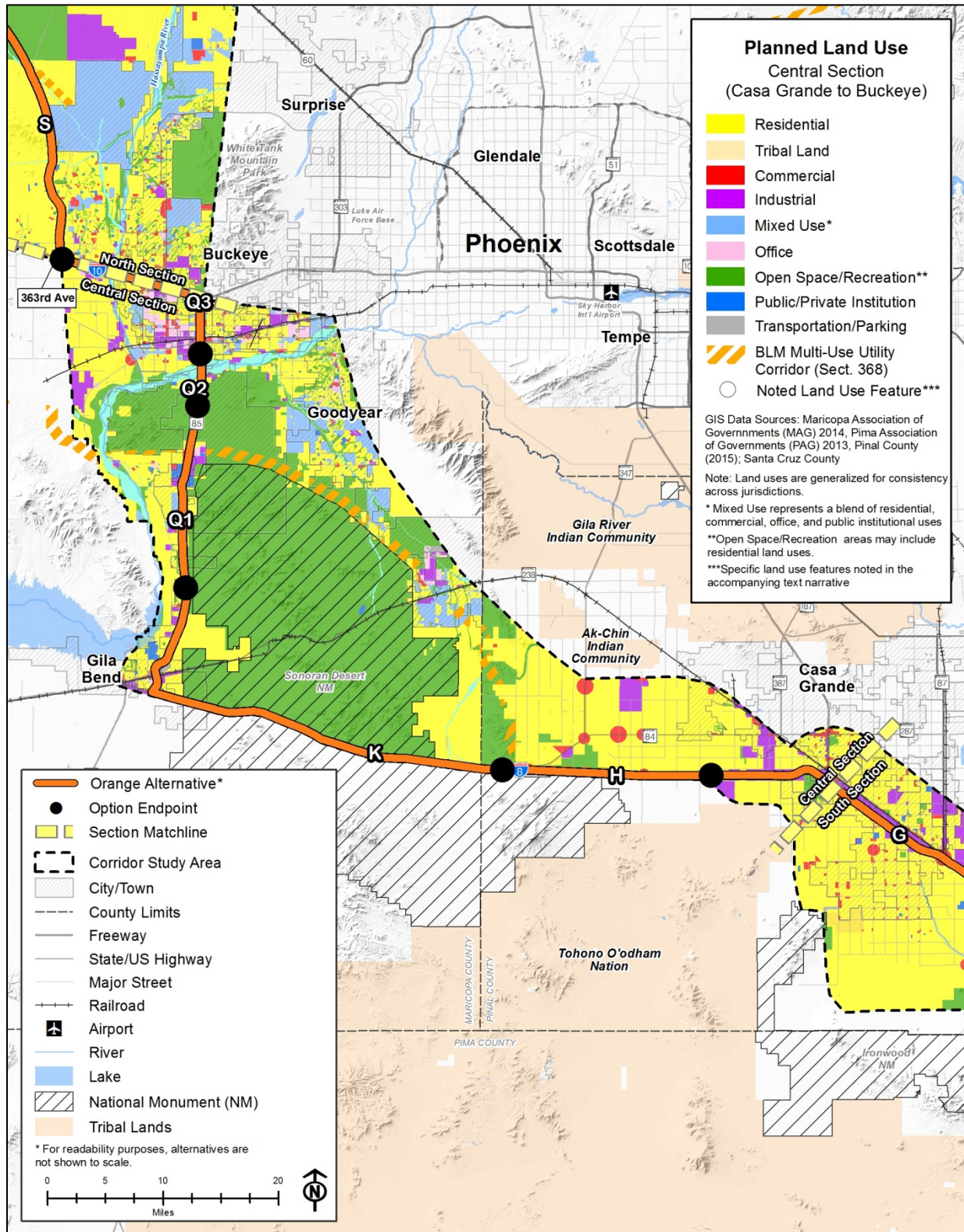


Figure 3.3-14 Planned Land Uses – Orange Alternative, Central Section

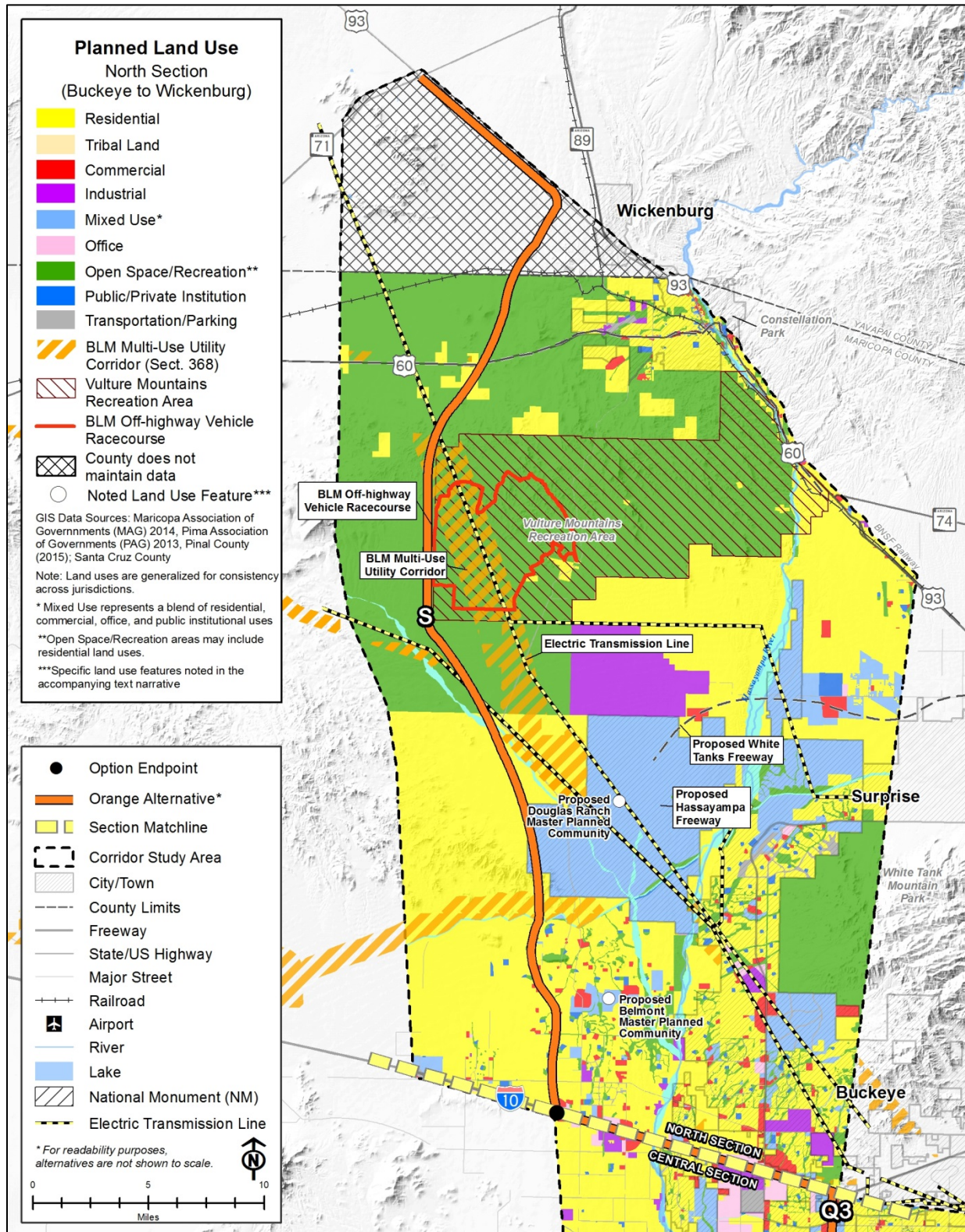


Figure 3.3-15 Planned Land Uses – Orange Alternative, North Section



1 Future plans in the vicinity of Option S are primarily for expanded residential development.
2 North of the recreation area, this Corridor Option mostly traverses planned open
3 space/recreation land, and slightly encroaches on the Vista Royale community. However,
4 impacts could be avoided or minimized by maintaining a more western alignment within the
5 Project Area during the Tier 2 detailed design.

6 Deviations in planned land uses may occur at the Option's junctions with US 60, US 93, and the
7 Arizona and California Railroad short line corridor, which could encourage employment-
8 generating land uses. Yavapai County does not maintain a plan for future land use in this area,
9 but development patterns are expected to generally mirror Maricopa County's, with planned
10 open space and residential development, and clusters of commercial development expected
11 along US 93.

12 *End-to-End Considerations*

13 The Orange Alternative follows existing interstate or state highway corridors in the South and
14 Central Sections. Where the Orange Alternative is to co-locate with existing roadway corridors,
15 improvements would be expected near the existing facility and where land uses have already
16 been developed consistent with a high-capacity roadway. Option B through central Tucson has
17 the potential to cause land use impacts if additional ROW is required in this densely built area.
18 In the North Section, Option S follows a new route between I-10 and US 93 and could impact
19 the pattern of planned land uses, both in master-planned communities as previously discussed
20 and in rural residential subdivisions.

21 Land Management and Special Designated Lands

22 Land management designations were reviewed to quantify lands with special designations that
23 are located within the Project Area and therefore could be impacted and converted to a
24 transportation use (**Table 3.3-6** [Potential Land Management Conversion Impacts – Orange
25 Alternative]). **Figure 3.3-17** (Land Management and Special Designated Lands – Orange
26 Alternative) illustrates land management patterns corridor-wide; noted features are labeled for
27 context.

28 The Orange Alternative includes Options A, B, and G in the South Section. The majority of land
29 along Option A consists of private land, with the exception of 331 acres of State Trust land
30 spanning the existing interstate in the proximity of Santa Gertrudis Lane and Tumacacori
31 National Historical Park.

32 Option B consists mostly of private land and State Trust land, with the exception of an
33 approximate 8-mile easement on the San Xavier District of the Tohono O'odham Nation along
34 I-19.

35 Option G is a mix of State Trust land (more to the south) and private land (more to the north),
36 and Picacho Peak State Park is within the Project Area at its northeastern edge for
37 approximately 1.2 miles. Given the available capacity on both I-8 and I-10, it is expected that
38 additional impacts could be avoided or minimized.

Table 3.3-6 Potential Land Management Conversion Impacts (acres) – Orange Alternative

Land Management	Build Corridor Option							Total	% Total
	A	B	G	H	K	Q	S		
BLM	0	0	0	1,805	6,042	1,366	3,837	13,050	19
National Forest	0	0	0	0	0	0	0	0	0
NPS	0	0	0	0	0	0	0	0	0
Military	0	0	0	0	0	0	0	0	0
Park and Recreation Area	0	0	202	0	0	375	0	577	1
Private Land	6,623	11,892	7,702	2,220	1,786	5,188	2,382	37,793	56
Reclamation	0	0	0	0	0	0	0	0	0
State Trust Land	331	336	3,026	358	2,207	2,106	6,007	14,371	21
Tribal Land	0	1,977	0	0	0	0	0	1,977	3
ACEC (BLM)	0	0	0	0	507	474	0	981	
National Monument (BLM)	0	0	0	0	6,133 ⁽²⁾	0	0	6,133	
Roadless Area (USFS)	0	0	0	0	0	0	0	0	
Reclamation – Deeded Lands	0	0	0	0	0	0	0	0	
State Wildlife Area (AGFD)	0.5	0	0	0	0	278	0	279	
Wilderness (BLM)	0	0	0	0	456	0	0	456	
Wilderness (NPS)	0	0	0	0	0	0	0	0	
Wilderness (USFS)	0	0	0	0	0	0	0	0	

- (1) Percent totals are not included for Special Designated Lands, as these are overlays to the underlying ownership patterns and do not cover the entire Study Area.
- (2) This acreage reflects what is present within the 2,000-foot-wide Project Area. However, assumptions on travel demand and typical sections were made as part of the analysis, and I-8 is not anticipated to be widened; therefore direct impacts on the SDNM are expected to be avoided or minimized. This is an inventory of the entire 2,000-foot-wide Project Area and does not reflect the actual amount of land that would be taken if Option K were to be selected.

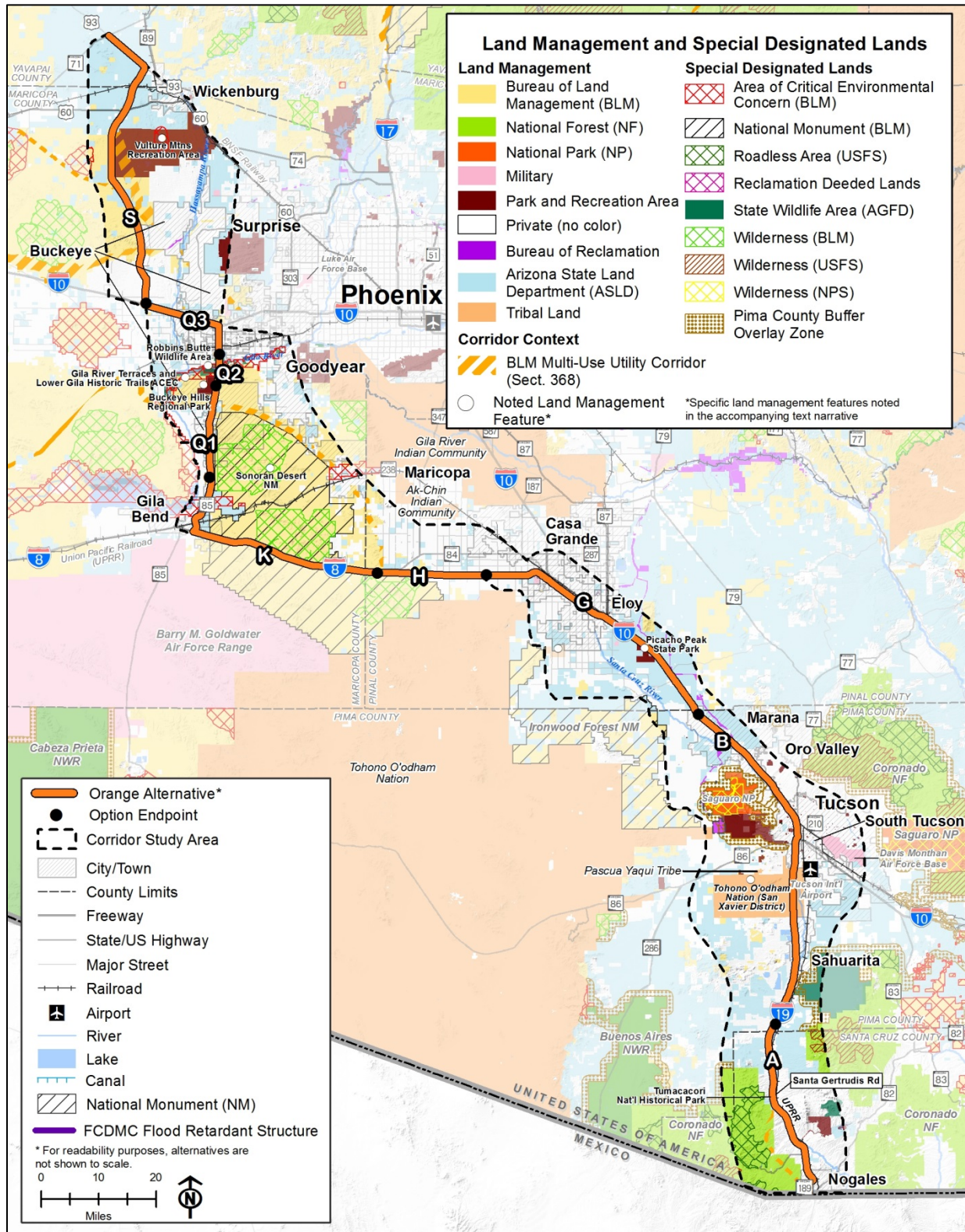


Figure 3.3-16 Land Management and Special Designated Lands – Orange Alternative



1 Options H, K, and Q in the Central Section involve existing routes, where planned
2 improvements could occur largely within the existing rights-of-way. A new connection between
3 I-8 and SR 85, planned east of Gila Bend, would require a new ROW. This connection traverses
4 parcels of private land and State Trust land.

5 Option Q (1, 2, 3), SR 85, mostly consists of private, State Trust, or BLM land. The Buckeye
6 Hills Regional Park is located directly adjacent to the west side of SR 85 for 3 miles. To the
7 north sits the Gila River Terraces and Lower Gila Historical Trails ACEC as well as the Robbins
8 Butte Wildlife Area, which is located within the Project Area for 3 miles. Since this Option is to
9 co-locate with SR 85, improvements would be expected in proximity to the existing facility, and
10 additional impacts could be avoided or minimized.

11 Option S in the North Section traverses BLM, State Trust, and private lands. Since it skirts the
12 western boundary of the VMRA, direct impacts to the park property are not expected. North of
13 the recreation area and closer to Wickenburg, the corridor is almost entirely on State Trust
14 lands, where I-11 development may be considered a beneficial opportunity to generate value for
15 trust beneficiaries.

16 *End-to-End Considerations*

17 The Orange Alternative generally follows existing interstate or state highway corridors in the
18 South and Central Sections. The co-located portions of the Build Corridor Alternative would
19 decrease the potential for additional impacts, to the extent ROW needs can be minimized.

20 The Gila River in the Central Section and related ACEC lands would be crossed by the
21 alternative, but related impacts may be minimized through mitigation for improvements that
22 occur within or near the existing SR 85 ROW. The ACEC designation only applies to BLM-
23 managed lands. Impacts are most likely to occur on private and State Trust lands. See
24 Section 3.17 (Indirect and Cumulative Effects) for a discussion of the direct and indirect impacts
25 to the character of wilderness and recreation areas.

26 **No Build Alternative**

27 The No Build Alternative would include the programmed improvements to the regional
28 transportation system that are in ADOT's federally approved 2018-2022 State Transportation
29 Improvement Program. The No Build Alternative would be unresponsive to forecasted
30 population and employment growth in the long term, which could lead to increased congestion
31 on the highway system, increased travel times, and reduced efficiency in the movement of
32 people and goods.

33 Additionally, the No Build Alternative would not reflect the long-term land use plans in long-
34 range planning documents (general and comprehensive plans) that are oriented around
35 proposed new highway corridors, such as the West Pinal Freeway, Hassayampa Freeway,
36 SR 303L extension, and SR 30 extension (as discussed in Section 3.3.1.3, Land Use Plans and
37 Policies). The No Build Alternative is not consistent with Study Area land use plans.

38 **Planned Land Use**

39 The No Build Alternative could inhibit planned future development areas by not providing access
40 to the regional transportation system. Several Study Area master-planned communities include
41 proposed freeway corridors in their long-term land use plans, for which land uses are organized
42 around, but many of these are not reflected in the No Build Alternative (e.g., Hassayampa



1 Freeway, West Pinal Freeway, SR 303L Extension, SR 30). Planned land uses, especially in
2 emerging economic activity centers, could be adversely affected by traffic congestion and travel
3 delays.

4 Land Management and Special Designated Lands

5 The No Build Alternative would generally not directly impact land managers in the Study Area,
6 as improvements are proposed to existing transportation facilities within or near current ROW
7 boundaries.

8 **3.3.2 Section 6(f)**

9 **3.3.2.1 Regulatory Setting**

10 Section 6(f) of the Land and Water Conservation Fund Act (LWCFA) of 1965 (16 United States
11 Code §§ 4601-4 to 4601-11, et seq.), administered by the Interagency Committee for Outdoor
12 Recreation and the Department of the Interior's NPS, provides funding for acquiring property
13 and developing public recreational facilities, and protects against the loss of that property to
14 other uses. The LWCFA states, "No property acquired or developed with assistance under this
15 section shall, without the approval of the Secretary (of the Department of the Interior), be
16 converted to other than public outdoor recreation uses" (16 United States Code § 4601-8(f) (3)).
17 Section 6(f) applies when a project proposes to convert property where Land and Water
18 Conservation Grant Funds have been used to redevelop all or a portion of the property
19 (36 Code of Federal Regulations § 59 et seq.). When property is converted, mitigation is
20 required in the form of replacement property of at least equal recreation value.

21 **3.3.2.2 Methodology**

22 The evaluation of potential effects on properties protected by Section 6(f) began with identifying
23 whether and where such properties are found within the Study Area. Tools used in making this
24 determination included the LWCFA list of sites, found at: [waso-lwcf.nrc.nps.gov/public/
25 index.cfm](http://waso-lwcf.nrc.nps.gov/public/index.cfm) and projects.invw.org/data/lwcf/grants-az.html. The list of sites includes entries with
26 park names as well as more generalized entries for property acquisitions. At this Tier 1 level,
27 entries with park names were reviewed. During Tier 2 project level analysis, ADOT will
28 coordinate with recipients of LWCFA monies regarding the more generalized entries to
29 determine where the monies were applied and if I-11 has the potential to impact those protected
30 properties.

31 The identified Section 6(f) properties were mapped using GIS software. The potential for each
32 Build Corridor Alternative to impact Section 6(f) properties was preliminarily assessed by
33 overlaying each Build Corridor Alternative on the Section 6(f) property layer, identifying where
34 overlaps potentially could occur and calculating the overlaps to quantify the potential impact
35 areas. Detailed analysis of co-located Corridor Options as well as Corridor Options that are not
36 co-located is deferred to Tier 2.

37 **3.3.2.3 Affected Environment**

38 Twenty-two properties identified in the listing of Section 6(f)-encumbered properties are within
39 the Study Area; they are listed in **Table 3.3-8** (Section 6(f) Properties) and shown in
40 **Figure 3.3-17** (Section 6(f) Properties).

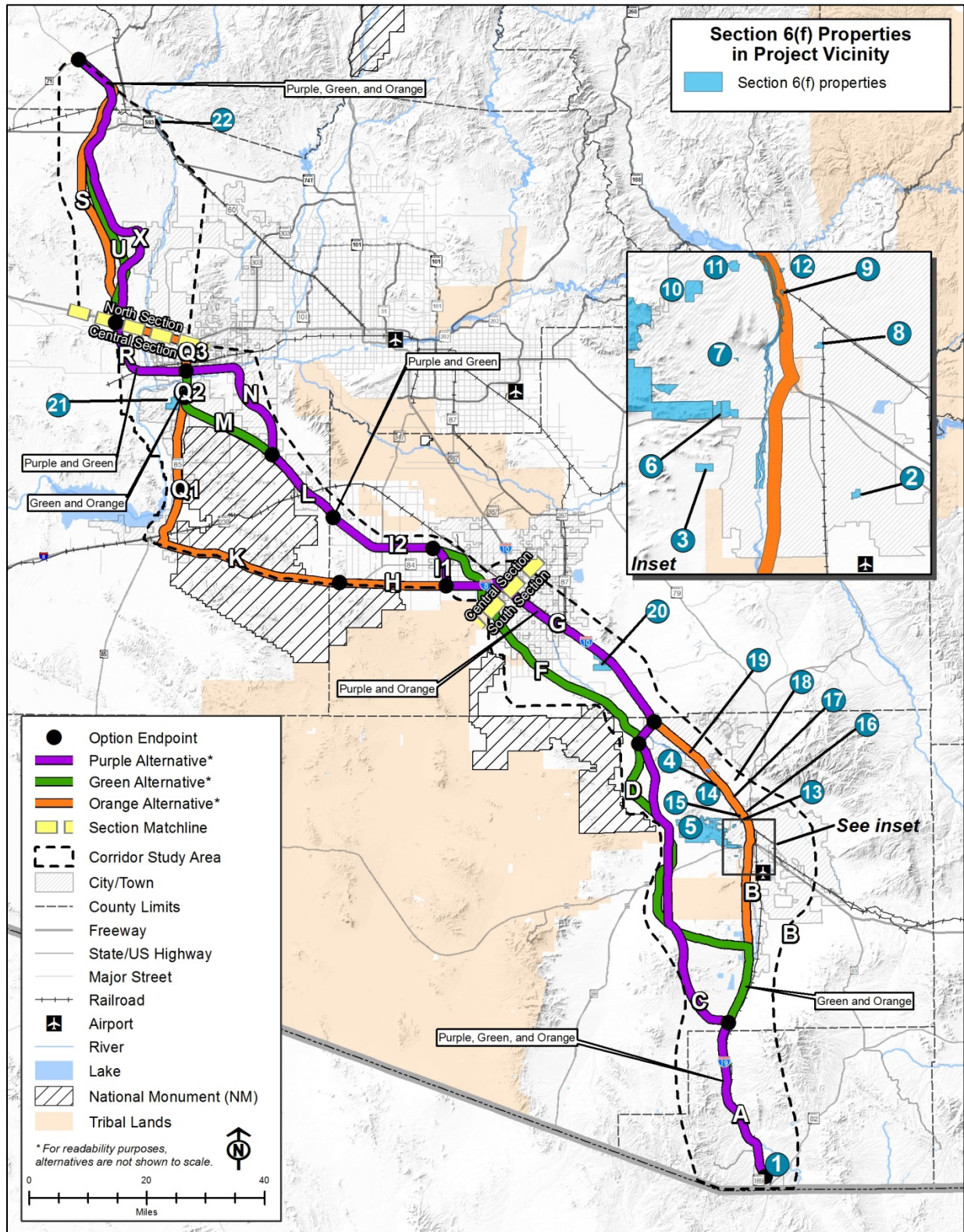


Figure 3.3-17 Section 6(f) Properties

Table 3.3-7 Section 6(f) Properties

1	Nogales Recreation Center	The City of Nogales Parks and Recreation Department owns and manages the Recreation Center at 1500 North Hohokam Drive, east of I-19 near the intersection of I-19 and East Calle Sonora/Mariposa Road. The Recreation Center, which was developed for active recreational activities, includes a community pool, tennis and basketball courts, lighted soccer fields, and on-site parking. It is adjacent to the ball fields of nearby Fleischer Park. The City obtained LWCFA monies in the 1960s, 1970s, and 1980s, and applied them to developing and maintaining the recreational facilities in the city, including the Recreation Center.
2	CSM Martin “Gunny” Barreras Memorial	The City of Tucson and Sunnyside Unified School District own and maintain this park, which features publicly accessible ball fields adjacent to the Sunnyside School. The City obtained LWCFA monies in 1976 for development of the park.
3	Winston Reynolds Manzanita District Park	Owned and maintained by Pima County, this is a 67-acre park with a publicly accessible community center and pool. Pima County obtained LWCFA monies in 1970 and 1978 for development of the park.
4	Santa Cruz River Park	The City of Tucson developed this park to provide trails and a disc golf course on the west bank of the Santa Cruz River north of El Rio Street. The City obtained LWCFA monies between 1975 and 1979 specifically to acquire the land and develop the park.
5	Tucson Mountain Park	Managed by Pima County, this park provides preserved land as well as passive and active recreational opportunities. Facilities include camping and picnicking areas, more than 62 miles of trails, shooting ranges, and an overlook. Pima County obtained LWCFA monies in 1979 to acquire land to expand the park.
6	John F. Kennedy Park	The City of Tucson developed this park to provide active recreation facilities, including a pool, ball fields, and play equipment. The park includes Kennedy Lake, an AGFD Community Fishing Program Water. The City obtained LWCFA monies in 1970 to develop the park.
7	Vista Del Pueblo Park	The City of Tucson developed Vista Del Pueblo Park as a neighborhood park with play equipment and passive recreation areas. The City obtained LWCFA monies in 1970 to develop the park.
8	Santa Rita Park	The City of Tucson owns and maintains this park, which features publicly accessible ball fields and a skate park. The City obtained LWCFA monies in 1984 for development of the park.
9	Oury Park	The City of Tucson developed Oury Park to provide active recreation facilities, including a pool, ballfields, and a recreation center. The City obtained LWCFA monies in 1971 to acquire land for the park.
10	Greasewood Park	The City of Tucson owns and maintains Greasewood Park, a 152-acre park that preserves the natural features of the property and is publicly accessible for orienteering. The City obtained LWCFA monies in 1984 for development of the park.
11	Joachim Murrieta Park	The City of Tucson owns and maintains this park, which features publicly-accessible ballfields. The City obtained LWCFA monies in 1971 for land acquisition, and again in 1972 and 1983 for development of the park.

Table 3.3-7 Section 6(f) Properties (Continued)

12	Francesco Elias Esquer Park	Owned and maintained by the City of Tucson, this park features a publicly-accessible playground and ramada. The City obtained LWCFA monies in 1972 for development of the park.
13	Manuel Valenzuela Alvarez Park	The City of Tucson owns and maintains this park, which features a publicly accessible playground. The City obtained LWCFA monies in 1971 for development of the park.
14	Juhan Park	The City of Tucson developed Juhan Park to provide ballfields. The City obtained LWCFA monies in 2008 to make improvements to the park.
15	Silverbell Golf Course	The City of Tucson developed Silverbell Golf Course to provide a publicly accessible golf facility. The City obtained LWCFA monies in 1976 to develop the property.
16	Jacobs Park	The City of Tucson owns and maintains Jacobs Park, which features publicly accessible ball fields, a pool, a picnic area, and a playground. The City obtained LWCFA monies in 1966 and 1970 for development of the park.
17	Flowing Wells Park	Pima County owns and maintains this 18-acre park, which features publicly accessible ball fields, a dog park, picnic areas, and playgrounds. Pima County obtained LWCFA monies in 1976 for development of the park.
18	Ann Day Community Park	Pima County owns and maintains Ann Day Community Park (formerly Northwest Park) in the City of Tucson, which features publicly accessible ball fields, a playground, a dog park, trails, and open space. Pima County obtained LWCFA monies in 1970 for development of the park.
19	Rillito Town Park	Pima County developed Rillito Town Park to provide ball courts and play equipment. The County obtained LWCFA monies in 1977 to develop the park.
20	Picacho Peak State Park	The 3,747 acres comprising Picacho State Park are located north of Tucson and adjacent to southbound I-10 at Exit 219 in Picacho. Opened in 1968 and managed by Arizona State Parks, the park includes the 1,500-foot Picacho Peak, which has been a landmark for travelers passing through the Pinal County area, including the DeAnza Expedition, the forty-niners, the Butterfield Overland Stage, and Union and Confederate troops during the Civil War. The land was acquired by the State of Arizona for a park because of its history, geology, and natural resources. Public use facilities in the park include camping areas, hiking trails, a visitor center, a playground, historical markers, and picnic areas. Arizona State Parks obtained LWCFA monies specifically for the park in 1967 and 1971. The department applied the 1967 funds to the development of the initial park facilities, and the 1971 funds to additional facility development and maintenance; no monies were applied to land purchase.
21	Buckeye Hills Regional Park	Maricopa County owns and manages Buckeye Hills Regional Park in the City of Buckeye. Consisting of approximately 4,747 acres, the public park is undeveloped and intended for the protection and enjoyment of the natural environment. The County obtained LWCFA monies in 1971.
22	Constellation Park	The Town of Wickenburg owns and manages this park, a publicly accessible recreational facility consisting of campgrounds, a rodeo ground, and a shooting range. Wickenburg acquired LWCFA monies in 1979 for development of these recreational uses of the park.



1 **3.3.2.4 Environmental Consequences**

2 **Purple Alternative**

3 *Picacho Peak State Park* – Option L would be aligned along I-10, resulting in approximately
4 173 acres of I-11 within and along the edge of Picacho Peak State Park in the South Section
5 (also see the Section 4(f) Evaluation of Picacho Peak State Park). The Tier 2 analysis would
6 need to evaluate the impacts to Section 6(f) resources associated with Picacho Peak State Park
7 because the exact location of I-11 is unknown at this time.

8 **Green Alternative**

9 No portion of a Section 6(f) property falls within the Green Alternative in the South Section.
10 Therefore, no portions of a Section 6(f) property would be converted to uses other than for
11 public outdoor recreation under this Build Corridor Alternative.

12 *Buckeye Hills Regional Park* – Option M would be aligned along SR 85, resulting in
13 approximately 184 acres of I-11 within and along the edge of Buckeye Hills Regional Park in the
14 Central Section (also see the Section 4(f) Evaluation of Buckeye Hills Regional Park). The
15 Tier 2 analysis would need to evaluate the impacts to Section 6(f) resources associated with
16 Buckeye Hills Regional Park because the exact location of the I-11 facilities is unknown at this
17 time

18 No portion of a Section 6(f) property falls within the Green Alternative in the North Section.
19 Therefore, no portions of a Section 6(f) property would be converted to uses other than for
20 public outdoor recreation under this Build Corridor Alternative.

21 **Orange Alternative**

22 *Santa Cruz River Park* – Approximately 131 acres of Santa Cruz River Park fall within Option B
23 in the South Section of the Orange Alternative. Santa Cruz River Park parallels I-10, with a
24 crossing in the Sahuarita area (also see Section 4(f) Evaluation). Impacts to Section 6(f)
25 resources associated with Santa Cruz River Park cannot be determined because the exact
26 location of the I-11 facilities is unknown at this time. The Tier 2 National Environmental Policy
27 Act (NEPA) process would evaluate specific effects.

28 *Oury Park* – Approximately 7 acres of the Oury Park fall within Option B in the South Section of
29 the Orange Alternative. Oury Park is entirely within the 2,000-foot-wide Project Area (also see
30 Section 4(f) Evaluation). Impacts to Section 6(f) resources associated with Oury Park cannot be
31 determined because the exact location of I-11 is unknown at this time. The Tier 2 NEPA process
32 will evaluate specific project effects.

33 *Francesco Elias Esquer Park* – Approximately 0.9 acre of the Francesco Elias Esquer Park falls
34 within Option B in the South Section of the Orange Alternative. The remaining 5.1 acres of
35 Francesco Elias Esquer Park are outside the 2,000-foot-wide Project Area (also see Section 4(f)
36 Evaluation). Impacts to Section 6(f) resources associated with Francesco Elias Esquer Park
37 cannot be determined because the exact location of I-11 is unknown at this time. The Tier 2
38 NEPA process will evaluate specific project effects.

39 *Rillito Town Park* – Approximately 2 acres of Rillito Town Park (Rillito Vista Park) fall within
40 Option B in the South Section of the Orange Alternative. The entirety of Rillito Town Park is



1 within the 2,000-foot-wide Project Area along I-10 (also see Section 4(f) Evaluation). Impacts to
2 Section 6(f) resources associated with Rillito Town Park cannot be determined because the
3 exact location of I-11 is unknown at this time. The Tier 2 NEPA process will evaluate specific
4 project effects.

5 *Picacho Peak State Park* – Option L would be aligned along I-10 in the South Section, resulting
6 in approximately 173 acres of the corridor within and along the edge of Picacho Peak State Park
7 (also see the Section 4(f) Evaluation of Picacho Peak State Park). Impacts to Section 6(f)
8 resources associated with Picacho Peak State Park cannot be determined because the exact
9 location of the I-11 facilities is unknown at this time. The Tier 2 NEPA process would need to
10 evaluate any impacts.

11 *Buckeye Hills Regional Park* – Approximately 114 acres of Buckeye Hills Regional Park fall
12 within Option Q2 in the Central Section under the Orange Alternative. Impacts to Section 6(f)
13 resources associated with Buckeye Hills Regional Park cannot be determined because the
14 exact location of I-11 is unknown at this time. The Tier 2 NEPA process will evaluate specific
15 project effects.

16 No portion of a Section 6(f) property falls within the Orange Alternative in the North Section.
17 Therefore, no portions of a Section 6(f) property would be converted to uses other than public
18 outdoor recreation under this Build Corridor Alternative.

19 **No Build Alternative**

20 The No Build Alternative would result in no change to an outdoor recreational use of a
21 Section 6(f) property.

22 **3.3.3 Summary**

23 All of the Build Corridor Alternatives would have land use impacts, including the potential to
24 encourage commercial and industrial development in locations near interchanges and to
25 increase development density in those areas. The actual effects and their magnitude cannot be
26 adequately determined at this time; they will largely depend on the timing of future construction
27 and other factors, such as the overall rate of urban development within the Study Area. Many
28 communities within the Study Area are planning for a high-capacity transportation facility that
29 follows one of the Build Corridor Alternatives. In these situations, anticipated land use effects
30 may be planned and compatible. In other situations, new development may be unplanned and
31 incompatible.

32 The Green and Orange Alternatives would have similar impacts on Section 6(f) resources
33 (*Buckeye Hills Regional Park*). The Purple Alternative would not affect Section 6(f) properties.

34 **Table 3.3-8** (Summary of Potential Impacts to Land Use and Section 6(f) Properties)
35 summarizes the key impact issues.

36 **3.3.4 Potential Mitigation Strategies**

37 Future construction of I-11 would result in physical impacts that could require mitigation. At this
38 stage in the development of I-11, potential mitigation measures can only be identified in general
39 terms, such as minimizing impacts to residential and sensitive environmental areas, until the
40 definition of a specific alignment is defined during Tier 2 studies. During Tier 2, if property



1 acquisition is necessary, the provisions of the Uniform Relocation Assistance and Real Property
2 Acquisition Policies Act of 1970, as amended, and the Civil Rights Act of 1964 would be
3 followed. Additionally, the specific alignment and locations of traffic interchanges would be
4 planned in coordination with local government entities and with public input to minimize the
5 potential for land use conflicts and to develop appropriate mitigation specific to each location.

6 If a Selected Alternative encroaches upon specially designated BLM lands, during Tier 2
7 studies, ADOT may need to pursue an amendment to the applicable Resource Management
8 Plans to grant ROW or otherwise permit construction of an interstate highway.

9 Understanding the potential for indirect and cumulative land use effects from I-11, ADOT would
10 be an active partner in a broader effort with Metropolitan Planning Organizations, local
11 jurisdictions, resource agencies, and private stakeholders to cooperatively plan development in
12 the I-11 Project Area. The effort would coordinate wildlife connectivity, local land use planning,
13 and context-sensitive design for I-11. The White Tanks Conservancy may be a model for this
14 type of effort, which also could include coordination with Pima County on the implementation of
15 the Sonoran Desert Conservation Plan.

16 If I-11 advances into Tier 2 design and NEPA analysis, ADOT would examine ways to avoid or
17 minimize impacts to Section 6(f) properties. Potential strategies ADOT could consider include,
18 but are not limited to, defining alignments that do not use park properties and incorporating
19 refinement details, such as using retaining walls to minimize the I-11 footprint.

20 As part of that effort, ADOT would continue coordinating with the agencies having jurisdiction
21 over the potentially affected properties. If land from one or more properties cannot be avoided,
22 Section 6(f) requires replacement of park land that is converted to a transportation use. The
23 land must be equal to or greater in value than the impacted land in terms of its ability to serve as
24 park land. To achieve this requirement, if park land cannot be avoided, ADOT's coordination
25 activities would assist in ADOT's identification of replacement land.

26 **3.3.5 Future Tier 2 Analysis**

27 Future Tier 2 projects would address specific effects to property, zoning regulations,
28 neighborhoods, or community facilities. The approach to determining acquisitions, easements,
29 and displacements, including ownership (public or private), would be determined as part of the
30 project-specific Tier 2 environmental study. Tier 2 projects also would address compliance with
31 the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970; this
32 compliance ensures that property owners (residential and business) receive fair market value
33 for their property and relocation benefits, and that displaced persons receive fair and equitable
34 treatment and do not suffer disproportionate injuries because of programs designed for overall
35 public benefit.

36 The Federal Highway Administration (FHWA) would complete a Final Section 6(f) Evaluation
37 during the future Tier 2 analysis. At that time, the FHWA would make the final determinations of
38 I-11 impacts on protected properties, assessing the ability of the Selected Alternative to avoid or
39 minimize impacts to protected properties and identifying specific mitigation measures to offset
40 the remaining impacts. During the Tier 2 analysis, coordination with agencies with jurisdiction
41 would focus on making final determinations of impact and identifying replacement land and
42 other specific mitigation measures, as warranted.

Table 3.3-8 Summary of Potential Impacts to Land Use and Section 6(f) Properties

Topics	No Build Alternative	Purple Alternative	Green Alternative	Orange Alternative
Major Resource Features		Land use effects are assessed qualitatively in the Draft Tier 1 EIS. Overall, the Build Corridor Alternatives would benefit commercial, industrial, and related land uses by improving the capacity of the interstate highway system, and retaining or granting new local access, especially to large regional facilities located near freeway interchanges.		
Most Common Planned Land Uses within Project Area Potentially Affected	No I-11 impacts identified; existing conditions and baseline trends would continue.	<ul style="list-style-type: none"> • Residential (51%) • Recreation/Open Space (13%) • Mixed Use (10%) • Industrial (8%) 	<ul style="list-style-type: none"> • Residential (51%) • Recreation/Open Space (22%) • Mixed Use (5%) • Industrial (5%) 	<ul style="list-style-type: none"> • Residential (31%) • Recreation/Open Space (22%) • Industrial (12%) • Commercial (10%)
Overall Land Use Considerations	Because it only accommodates near-term planned improvements, the No Build Alternative would be unresponsive to forecasted population and employment growth in the long term, which could lead to increased congestion on the highway system, increased travel times, and reduced efficiency in the movement of people and goods.	Not likely to cause major adverse effects to land uses along the corridor because I-11 is generally consistent with adopted plans. Some impacts in developed areas may occur due to right-of-way acquisition. New transportation junctions may create opportunities for new development and growth along I-11, depending on the timing of construction and pace of development.	Similar to the Purple Alternative.	Impacts to planned land uses are expected to be less than the other Build Corridor Alternatives, since I-11 would likely be co-located with an existing facility under the Orange Alternative, where land uses have developed consistent with a roadway. Added traffic may increase the attractiveness of the route and desire for new goods and services.

Table 3.3-8 Summary of Potential Impacts to Land Use and Section 6(f) Properties (Continued)

Indirect Effects	<p>Programmed transportation improvements plus projected population and employment growth could:</p> <ul style="list-style-type: none"> • Reduce the availability of land that could be used for future parks, recreational facilities, and open space. • Increased use of parks, recreational facilities, and open space due to an increased population. 	<p>Land development induced by I-11 could:</p> <ul style="list-style-type: none"> • Reduce the availability of land that could be used for future parks, recreational facilities and open space. Could increase the rate and geographic extent of this impact compared to the No Build Alternative. • Increased use of park, recreational facilities, and open space due to increased population. Could cause more pressure for open space protection if the Build Alternative results in induced growth in additional areas. 	<p>Similar to the Purple Alternative, except:</p> <ul style="list-style-type: none"> • The resources present within the Project Area have greater potential to be indirectly affected by induced changes to land use and traffic. 	<p>Similar to the Green Alternative, except:</p> <p>More resources are present within the Project Area and so could be indirectly affected by induced changes to land use and traffic. However, these resources are already located adjacent to a transportation facility in the South and Central Sections.</p>
Cumulative Effects	<p>Past, present, and reasonably foreseeable projects and planning could:</p> <ul style="list-style-type: none"> • Decrease the potential land available for recreation uses. • Increase the demand to provide parks, recreational facilities, and open spaces in growing urban/suburban areas. • Increase the demand to 	<p>Past, present, and reasonably foreseeable projects could:</p> <ul style="list-style-type: none"> • Reduce the amount of land available for future parks, recreational facilities, or open space compared to the No Build Alternative. 	<p>Similar to the Purple Alternative.</p>	<p>Similar to the Purple Alternative, except:</p> <ul style="list-style-type: none"> • Effects to specific parks, recreational facilities, or open space, but these are more likely to already be in the vicinity of an existing transportation use.



Table 3.3-8 Summary of Potential Impacts to Land Use and Section 6(f) Properties (Continued)

	provide protected land with recreational components in rural/undeveloped areas.			
Section 6(f) potential impacts	No I-11 impacts identified; No changes to outdoor recreational use of Section 6(f) properties.	No portion of a Section 6(f) property falls within the Purple Alternative.	Option M could result in a permanent loss of a portion of Buckeye Hills Regional Park. Because the exact location of the I-11 is unknown at this time, impacts to Section 6(f) resources associated with the Buckeye Hills Regional Park would need to be evaluated during Tier 2.	Option Q2 could result in a permanent loss of a portion of Buckeye Hills Regional Park. Because the exact location of the I-11 facility is unknown at this time, impacts to Section 6(f) resources associated with Buckeye Hills Regional Park would need to be evaluated during Tier 2.



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