

WASHOE COUNTY REGIONAL ARCHERY FACILITY MASTER PLAN



JUNE 2021



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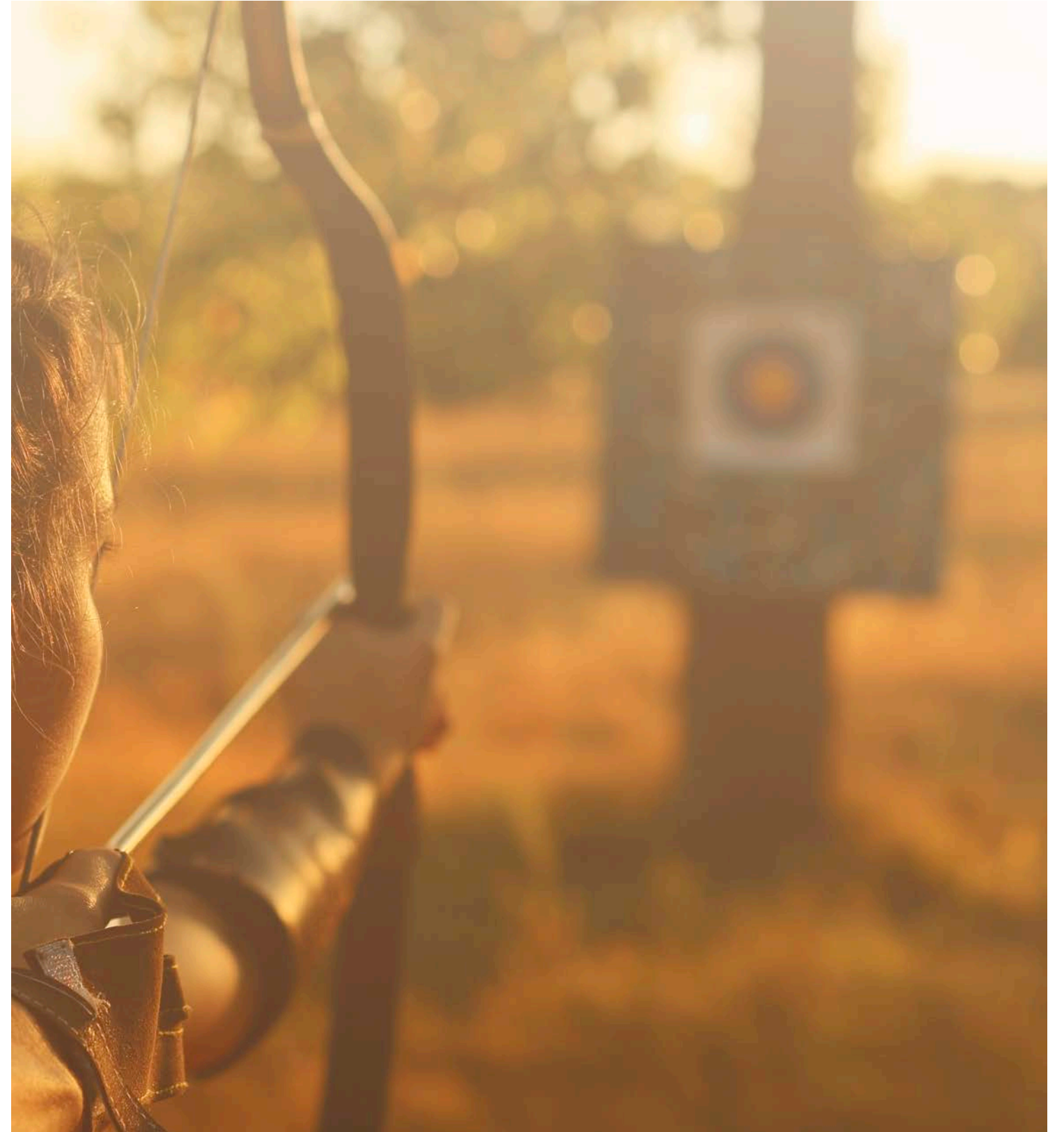
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INTRODUCTION

The TSK led Master Plan Team had the pleasure of working with the Washoe County Community Services Department, Nevada Department of Wildlife, Bureau of Land Management, and Washoe County Archery Community to plan for the future development and continued success of the Washoe County Regional Archery Facility. These stakeholder participants represented a broad range of interests in the facility and provided the planning team with a balanced perspective of the project's needs and goals. In addition to County and State staff, the stakeholders represented archery's diversity including the sport's two largest communities: field archery and Olympic style target archery.

Despite the challenges of 2020 and 2021, the Master Plan Team has conducted several stakeholder and agency meetings (planned and impromptu), two public meetings, on-site meetings and observations, and facility research. Through this process, we have come to a shared understanding and developed a general agreement about the path forward among the Regional Archery Facility stakeholders and arrived at a Master Plan that will serve the Northern Nevada archery community into the next decade. This document summarizes the outcomes of that effort.

The Regional Archery Facility Master Plan presented here is intended to serve as a guide for future development. While an order to the identified projects is proposed, the plan is intended to be adaptable to future funding opportunities and changes in use. The Master Plan also identifies which projects will require approval from the BLM or funding support from the Nevada Department of Wildlife to be realized. The proposed timeline accounts for the approval process and granting cycles as well as design and construction periods.



PARTICIPANTS

Master Planning Team

Stakeholders

WASHOE COUNTY

Colleen Wallace-Barnum : Park Operations Superintendent, Regional Parks and Open Space
Brian Harrower : District Manager, Regional Parks and Open Space
Sophia Kirschenman : Parks Planner, Regional Parks and Open Space
Bob Holland : Park Ranger, Regional Parks and Open Space

SILVER ARROW BOWMAN

Mike Bertero : President (2020-2021)
Kelly Dean : Past President

NEVADA DEPARTMENT OF WILDLIFE

Aaron Keller, : Outdoor Education Coordinator, Nevada Department of Wildlife
Dawn Andersen : Regional Hunter Education Coordinator, Nevada Department of Wildlife

THE ARCHERY COMMUNITY

Lystra Pitts : Wasting Arrows
Mike Whiting : Scheels

Master Planning Team

Project Team

TSK Architects

Pat Pusich : Principal
Kevin Kemner : Design Principal
Silvia Perez : Project Coordinator
Tim Rudloff : Architect

SPS+ Architects (Archery Planning)

Bob Pian : Architect, Archery Planning

Design Workshop

Steve Noll, Principal, Landscape Design + Planning

Odyssey Engineers

Frank Bidart : Principal, Civil Engineering

THE REGIONAL ARCHERY FACILITY

EXISTING CONDITIONS



EXISTING CONDITIONS

ABOUT

The Washoe County Regional Archery Facility is a public outdoor recreational archery range that serves the archery community of Northern Nevada and California. The facility is located on public land leased by Washoe County from the Bureau of Land Management under a Recreation and Public Purposes Lease. The current lease was renewed May 10, 2012 and will expire May 10, 2032. This lease is based on the 2006 Silver Arrow Archery Park Development and Improvement Plan, which was updated in 2012 when the lease was renewed. (see addendum)

The facility is operated by a local archery club, the Silver Arrow Bowman, under a use agreement with Washoe County. Archery amenities consist of a field archery course, set distance target course, broadhead target and capture pit, 3D target area, secure storage (conex), covered seating and single portable toilet.



WCRAF Entrance Monument Sign

GENERAL SITE DESCRIPTION

The Washoe County Regional Archery Facility (WCRAF) is located at 1255 Matterhorn Boulevard, Reno, Nevada. The 110 acre facility sits at the north end of Lemmon Valley, halfway between Swan Lake and Antelope Valley on the southwestern slope of Coyote Ridge. There is approximately 200' of rise across the site with an average elevation of 5500' above sea level. There are three distinct washes that follow the overall slope. Surface soils are generally fine grain sand to dusty with some exposed rock along the washes.

Located in the transition zone between the Great Basin and Sierra ecosystems, the WCRAF site contains a healthy mix of mature and young growth juniper and there is no evidence of recent wildfire activity. There have been recent wildfire fuel reduction efforts by Washoe County, and this helped maintain the overall quality of the site. Relatively free from invasive species such as cheat grass, the site is a good example of a mature native habitat.

The site does show signs of use and degradation of ground cover. There is significant trail braiding throughout the site from both foot traffic and all-terrain vehicles. As a result, normal annual ground cover and grasses are sparse. Given the type of ecosystem and the current drought, native vegetation is slow to recover accelerating the impact of site use. Use caused erosion is observable along the archery course and support trails.

FACILITIES AND ACCESS

The site is undeveloped with no permanent facilities located on site and no utilities (power and water) provided. Cellular phone/data coverage is good to excellent based upon the provider. The site is a good candidate for solar electric system support by battery distribution. There is adequate solar exposure to meet the projected master planned site needs through solar power.

The entrance to the WCRAF is located four tenths of a mile east of Matterhorn Boulevard. Access to the facility is via Silver Arrow Range Rd, a one and a half and two way graded unpaved road. Road conditions are generally favorable and during dry weather the site is accessible to all but the lowest clearance vehicles with two exceptions: the entrance point from Matterhorn and a wash crossing at the halfway point. The transition from pavement to dirt at the entrance is prone to potholing which makes it difficult for lower clearance vehicles traveling onto Matterhorn Boulevard. The wash crossing also erodes and ruts which making it difficult for lower clearance vehicles to enter the site. The road is not readily passable by passenger and two wheel drive vehicles during and often long after rain and winter storms. Improving access to the site should be considered as an essential improvement.



Entrance Road

The WCRAF perimeter is defined by a wire cattle fence and vehicle gate. The fence serves two purposes: the prevention of cattle from entering the facility, and guiding hikers away from wandering into an active target range. The vehicle gate separates two parking areas. A lower parking area that is accessible at all times and an upper parking area that is accessible only during archery facility events and weekends. Two "vee" livestock excluder gates permit foot access from the lower parking area to the facility when the vehicle gate is closed. The parking areas are unimproved and poorly defined. There is evidence of vehicle encroachment in the surrounding landscape.



Lower Parking Area and Gate

EXISTING CONDITIONS



stand locations can be varied to refresh the course. Currently, there is no signage defining the 3D course and the archer relies on construction tape “flags” tied to juniper trees for way finding. The 3D Target course is the least well-defined of the archery facility’s amenities and would benefit from added organizational structure to promote safety and healthier landscape.

Archery range activities are supported by a number of small structures. These include:

Gazebos & Shade Structures – There are three shade structures located within the WCRAF. Two small metal shade structures for seating and gathering at the eastern end of the upper parking area. Each of these structure provides approximately 400 square feet of shelter. The larger of the two (16’ x 24’) is centrally located in a small gathering area and is the most usable. The smaller structure (12’ x 30’) is located at the edge of the gathering area abutting



Park signage and wayfinding is minimal, with a Washoe County parks entrance sign near the vehicle gate and at the entrance points to the shooting courses. In general, the site requires familiarity of the facility to understand course layout and intended use. The entrance points to the set distance and field archery courses (links course) are marked, however, the trail from signage to the first shooting stand is ill-defined. Once on the course, target to target way finding is defined by a series of permanent “arrowhead” markers intended to guide the user along set paths. Trail braiding is present throughout the field course and to the novice user course navigation can be challenging. It was observed that the majority of weekday archers do not follow the set course, but choose specific targets for practice. This pick and choose use of the facility is a significant contributor to the trail braiding as well as a safety concern.

The 3D target course uses life-like targets for a realistic archery experience. There is no set course layout and target and shooting



Shade Structures

a row of junipers. The ground beneath this structure noticeably slopes and is difficult to access. The third structure is positioned near the upper end of the field course. This is a wood structure with a bare ground floor. The ground noticeably slopes, however, this does not appear to impact its intended use as a tournament support structure.

Storage Structures – There are three storage structures located within the WCRAF. Two 40’ Conex units positioned to create a central equipment and storage yard and a 10’x16’ storage shed. Additional site storage is open to view and loosely organized. The location and visibility of the storage units and site storage detracts from the visual quality of the site.



Storage Facilities

Restroom Facilities – There are no permanent restroom facilities on site. There is a single “port-a-potty” located adjacent to the Conex units. For tournaments, additional facilities are brought to the site. The nearest publicly accessible restroom is approximately five miles at the corner of Limber Pine and Lemmon Drive.



Current Restroom Facilities

ACCESSIBILITY

The WCRAF does not meet ADA requirements for access, however, as an undeveloped facility there is no requirement to do so at this time. Any future developments will require that the facility provide appropriate ADA access.

OBSERVED USE PATTERNS

During the course of the planning effort, the team has had the opportunity to observe the use of the site. We have made the following conclusions:

General Use – The site receives regular use throughout the week. Five weekday observations were made and on each occasion multiple users were seen using the facility. The majority of these were settling on one or two targets to practice specific shooting conditions. Observed weekday use ranged from 1 vehicle to 6 vehicles. Weekend use was significantly higher with Silver Arrow Bowman reporting tournament attendance ranging as high as 140 participants to regular weekend use averaging 40 users at any given time.

EXISTING CONDITIONS

Weather Impacted Use – Site use is affected by seasonal weather conditions. Most notably, winter conditions (snow and snow melt) which affect the ability to access or walk the site have the greatest impact. Other than the most extreme weather events, daily wind conditions do not affect usage. The site was not observed during periods of precipitation.

SITE QUALITIES

The natural qualities of the site are highly prized by the archery community who appreciate the “being in the field” quality of the WCRF. Any future development should take care to maintain that quality. The site does provide significant views of Lemmon Valley, Stead, Swan Lake and the Sierras. Planning for future public facilities should take advantage of these vistas as an added site experience.



Upper Parking Area



Entrance to Gathering Area



Small Storage Unit with Scoreboard



View from Field Course to Lemmon Valley.



Course Map at Entry to Field Course, Note Archer on Course and Trail Braiding

EXISTING CONDITIONS



Field Course Shooting Station and Typical Amenities



Mid-Course Gazebo - Most Often Used as a Refreshment Station



Typical Signage



Field Course Shooting Station and Typical Amenities



Field Course Shooting Station and Typical Amenities



Field Course Shooting Station and Typical Amenities

EXISTING CONDITIONS



The Course is Efficient in Layout, Here Along the Northern Leg



Typical Trail Braiding Around Field Course



Typical Trail Braiding Around Field Course



Target Distance Marker

EXISTING CONDITIONS



View of Practice (Set Distance) Course From Top of Course, Note Trail Braiding in Foreground



Practice Course Targets with Erosion in Foreground



Practice Course Shooting Station and Path

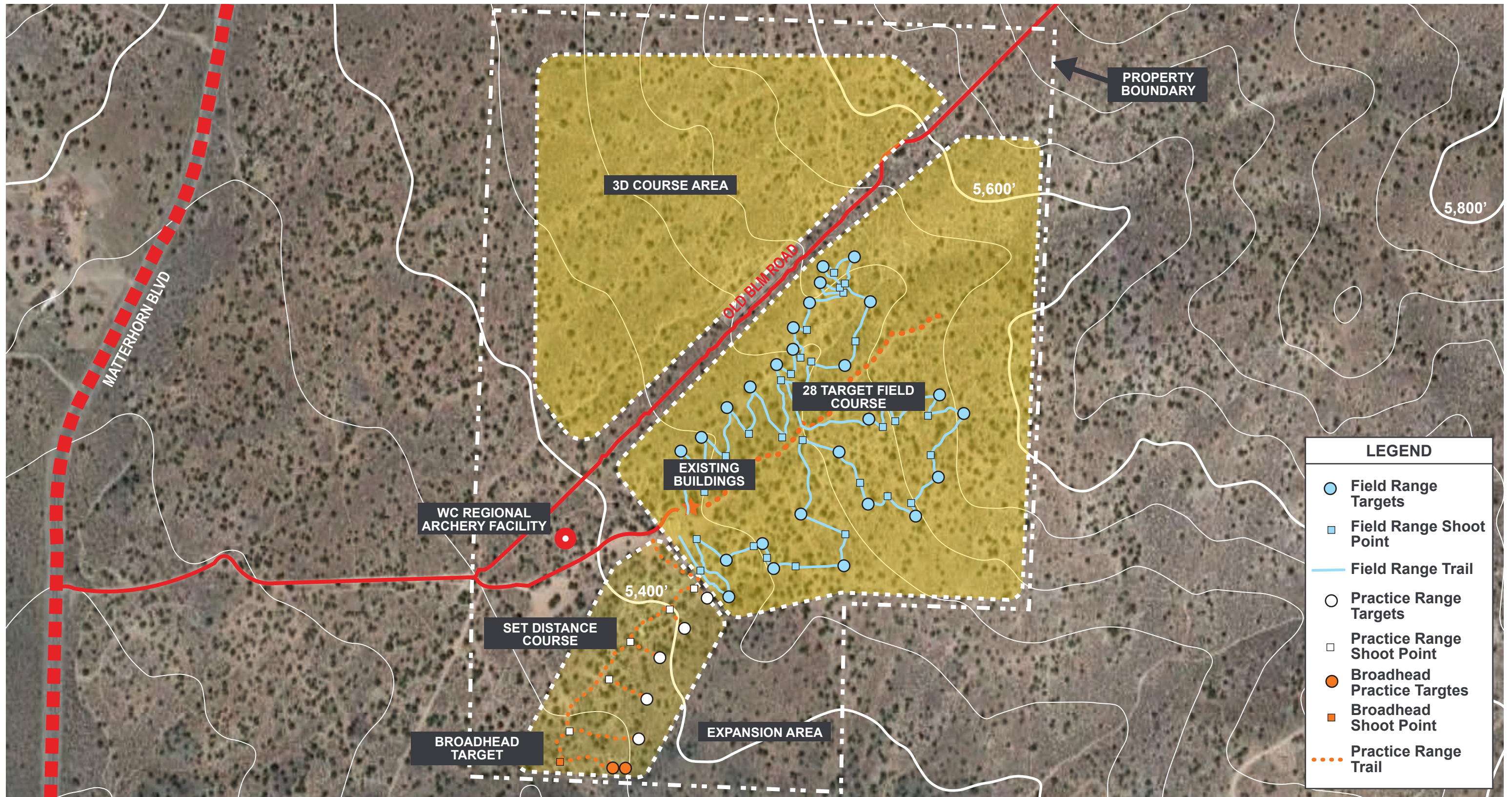


Typical Practice Course Target



View of Practice Course Shooting Stand and Target

EXISTING FACILITY PLAN



2012 IMPROVEMENT PLAN

2006 IMPROVEMENT PLAN OVERVIEW

The 2006 Silver Arrow Archery Park Development and Improvement Plan served as the basis for the initial lease agreement between the Bureau of Land Management and Washoe County. That document outlined a five year plan that included the current Field and 3D courses as well as indoor facilities for target archery and education. To date, the first two years of the five year plan have been achieved.

The 2006 plan was updated at the time of the BLM lease renewal in 2012. The five year plan, originally outlined in 2006 was incorporated in the 2012 update and is largely unchanged. The 2021 Master Plan adopts many of the goals of the 2012 plan and organizes them in a fifteen year timeline that will be more attainable. The 2012 plan is included in this document for reference. The 2021 Master Plan refines the previous goals as well as introduces new goals that are consistent with the proposed use of the facility.



2012 WCRAF IMPROVEMENT PLAN

Form 2740-1
(February 2010)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
**APPLICATION FOR LAND FOR
RECREATION OR PUBLIC PURPOSES**
(Act of June 14, 1926, as amended; 43 U.S.C. 869; 869-4)

FORM APPROVED
OMB NO. 1004-0012
Expires: January 31, 2013

Date 02/10/2012	Serial Number (BLM use only)
Home phone (include area code) n/a	

1a. Applicant's name Washoe County	b. Address (include zip code) P.O. Box 11130, Reno, NV 89520	Business phone (include area code) 775-823-6513
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2. Give legal description of lands applied for (include metes and bounds description, if necessary)

SUBDIVISION	SECTION	TOWNSHIP	RANGE	MERIDIAN
11, N1/2NW1/4NW1/4	2, SW1/4NE1/4SW1/4	T21N	R19E	Mt. Diablo Meridian
	2, S1/2NW1/4SW1/4	T21N	R19E	Mt. Diablo Meridian
	2, SW1/4SW1/4	T21N	R19E	Mt. Diablo Meridian
	2, W1/2SE1/4SW1/4	T21N	R19E	Mt. Diablo Meridian

County of **Washoe** State of **Nevada** Containing (acres) **110**

3a. This application is for: Lease Purchase (If lease, indicate year **2012**)

b. Proposed use is Public Recreation Other Public Purposes

4. Describe the proposed use of the land. The description must specifically identify an established or definitely proposed project. Attach a detailed plan and schedule for development, a management plan which includes a description of how any revenues will be used, and any known environmental or cultural concerns specific to the land.

Washoe County, through its Department of Regional Parks and Open Space, is seeking a 10-year lease renewal of 110-acres of BLM property for use as a public archery range, commonly known as the Washoe County Regional Archery Facility [hereinafter, RAF] (see map Exhibit A). Washoe County's existing lease is scheduled to expire May 10, 2012, and it is the desire of the Department and project partners to continue operation for public use due to its popularity and recreational benefits to the community.

Currently, Washoe County subleases the operations and maintenance of the RAF to Silver Arrow Bowmen [hereinafter, SAB], a local private non-profit 501c3 organization. Attached (Exhibit B) is a current copy of their sublease agreement with terms. Washoe County is in contract negotiations with SAB and anticipates continued operations and maintenance of the RAF for a lease term concurrent with the County lease renewal.

Attached as Exhibit C is a four year development plan as proposed by the SAB. While the SAB has not been able to accomplish all of their goals related to enhancements of the RAF due to limited financial resources, Washoe County did receive a \$4,902.54 grant from the Nevada Department of Wildlife Hunter Education Program to purchase fencing materials on their behalf. The project was needed for wildlife protection, property boundary clarification, to ensure safe operations and avoid outside interference. The project is complete and was identified in the previous development plan as submitted with the 2007 lease application. The Management Plan as proposed by the SAB is attached as Exhibit D. Development and revenue items are further addressed in the terms outlined in Exhibit B.

The RAF is consistent with Washoe County's Park District 2A Master Plan and Open Space and Natural Resource Management Plan. There are no known environmental or cultural concerns as outlined in BLM EA-NV-030-05-20 and FONSI N75639 (2912) (Exhibit E).

5. If applicant is State or Political subdivision thereof, cite your statutory or other authority to hold land for these purposes.
NRS 244.275. Purchase or lease of property for use of County; appraisal. (Exhibit F)
6. Attach a copy of your authority for filing this application and to perform all acts incident thereto.
7. If land described in this application has not been classified for recreation and/or public purposes pursuant to the Recreation and Public Purposes Act, consider this application as a petition for such classification.

(Continued on page 2)

8. Are all activities, facilities, services, financial aid, or other benefits as a result of your proposed development provided without regard to race, color, religion, national origin, sex, or age? Yes No (If "no," describe the situation or activity and your plans for achieving compliance.)

9. Are all activities, facilities, and services constructed or provided as a result of your proposed development accessible to and usable by persons with disabilities? Yes No (If "no," describe the situation or activity and the reasons for nonaccessibility).

Due to the undulating topography of the site, the entire 110-acres is not accessible; however, all public parking, restrooms and general use areas are accessible for users of all abilities. Any new permanent structures planned will be ADA compliant.

Applicant's Signature Date **02/10/2012**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representation as to any matter within its jurisdiction.

GENERAL INSTRUCTIONS

1. Type or print plainly in ink.
2. Submit application and related plans to the BLM District or Resource Area Office in which the land is located.
3. Study controlling regulations in 43 CFR 2740 (Sales) and 43 CFR 2912 (Leases).
4. If applicant is non-governmental association or corporation, attach a copy of your charter, articles of incorporation or other creating authority. If this information has been previously filed with any BLM office, refer to previous filing by date, place, and case serial number.
5. If applicant is non-governmental association or corporation, attach a copy of your authority to operate in the State where the lands applied for are located. If previously filed with any BLM office, refer to previous filing by date, place, and case serial number.

SPECIFIC INSTRUCTIONS (Items not listed are self-explanatory)

Item	Item
<p>2. If land is surveyed, give complete legal description. If land is unsurveyed, description should be by metes and bounds connected, if feasible, by course and distance with a corner of public land survey. If possible, approximate legal subdivisions of unsurveyed lands should be stated. Acreage applied for must not exceed that specified by regulations.</p> <p>3a. Generally, title to lands will not be granted upon initial approval of an application. In order to assure proper development or use plans, the general practice will be to issue a lease or lease with option to purchase after development is essentially completed. In any case, term of lease may not exceed 20 years for non-profit organizations or 25 years for governmental agencies, instrumentalities or political subdivisions.</p> <p>4. Leases and patents under this act are conditioned upon continuing public enjoyment of the purposes for which the land is classified. The plan of development, use, and maintenance must show, at a minimum:</p> <ol style="list-style-type: none"> a. A need for proposed development by citing population trends, shortage of facilities in area, etc. b. That the land will benefit an existing or definitely proposed public project authorized by proper authority. c. Type and general location of all proposed improvements, including public access (roads, trails, etc.). This showing may take the form of inventory lists, maps, plats, drawings, or 	<p>blueprints in any combination available and necessary to describe the finished project. Site designs should be provided for intensive use sites and general information about improvements existing or planned on lands within the overall project.</p> <p>d. An estimate of the construction costs, how the proposed project will be financed, including a list of financial sources, and an estimated timetable for actual construction of all improvements and facilities.</p> <p>e. A plan of management to include operating rules, proposed source and disposition of revenues arising from the proposed operation, personnel requirements, etc.</p> <p>f. A specific maintenance plan to include, for example, sewage and garbage disposal, road maintenance, upkeep and repair of grounds and physical facilities, etc.</p> <p>g. Applications for solid waste disposal sites must comply with guidelines established by the Environmental Protection Agency (40 CFR 258) and must include a detailed physical description of the site including a map, description of ground water situation, soil characteristics and management plan.</p> <p>6. This may consist of a copy of a delegation of authority, resolution or other evidence of authority from the governing board of the applicant's organization, copy of the by-laws of the organization, or the like.</p>

(Continued page 3)

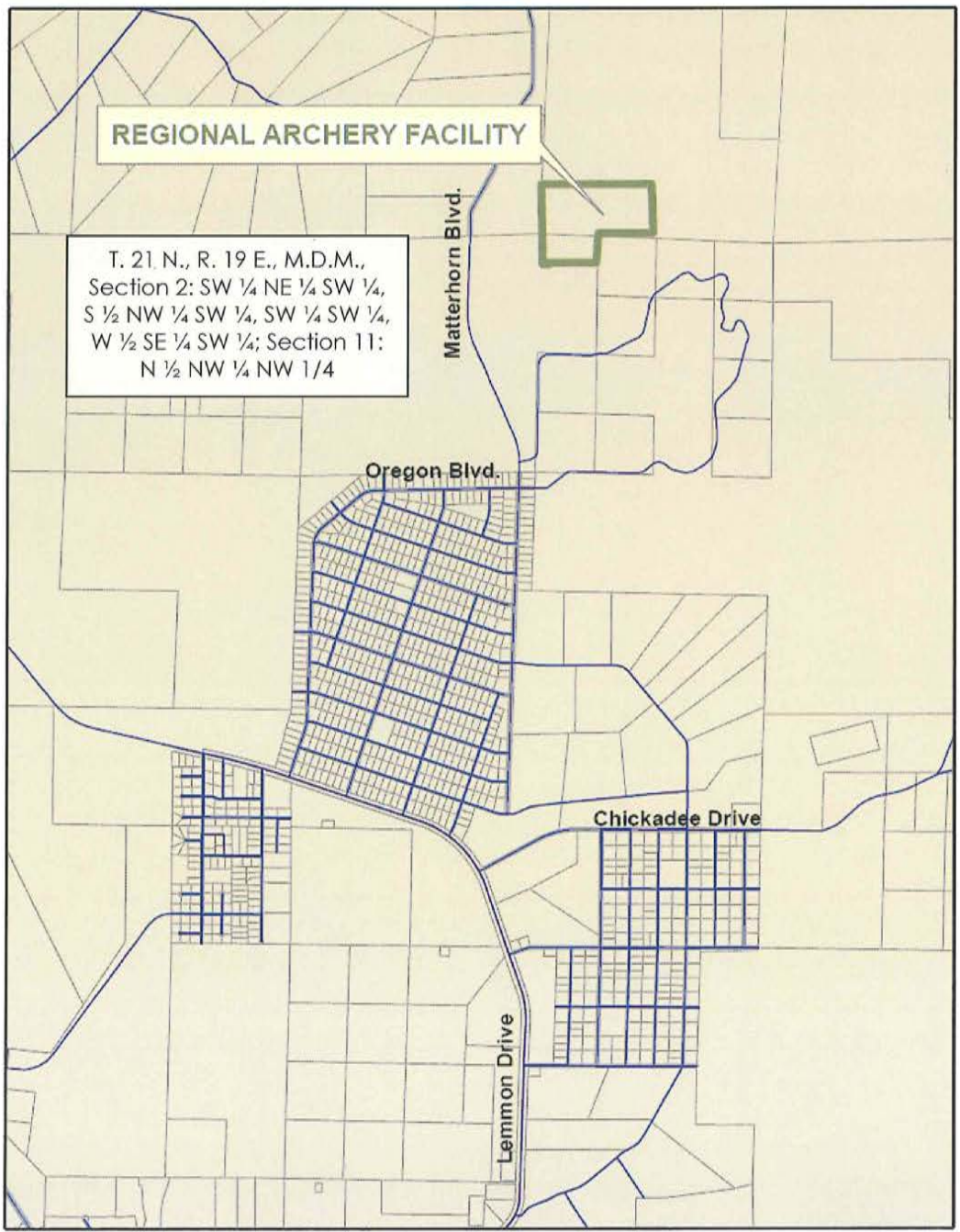
(Form 2740-1, page 2)

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application for a Land Use Authorization.
 AUTHORITY: 43 U.S.C. 869 et seq.; 43 CFR Part 2740
 PRINCIPAL PURPOSE: The information is to be used to process your application.
 ROUTINE USES: (1) The adjudication of the applicant's request for a Land Use Authorization. (2) Documentation for public information. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in use of public lands or resources. (4) (5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.
 EFFECT OF NOT PROVIDING INFORMATION: Disclosure of the information is mandatory for processing of the application. If all the information is not provided, the application may be rejected.

The Paperwork Reduction Act of 1995 requires us to inform you that:
 BLM collects this information to process your request for Federal lands under the provisions of June 14, 1926 (43 U.S.C. 869 as amended), Recreation and Public Purposes Act.
 Information will be used to illustrate whether the applicant meets requirements of regulations found in 43 CFR Subpart 2740. Response to this request is mandatory, see regulations found in 43 CFR Subpart 2741.4.
 BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 40 hours per response, including the time for reviewing instructions, gathering, and maintaining data and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to the U.S. Department of the Interior, Bureau of Land Management (1004-0012), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.



N
 REGIONAL ARCHERY FACILITY
 Vicinity Map
 EXHIBIT "A"



2012 WCRAF IMPROVEMENT PLAN

EXHIBIT C 5 year Development Plan

Year One

COMPLETED

1. Develop four, fourteen target loops on the upper 90 acres. Loops will be designed to work within the natural landscape with the primary disruption of the landscape begin target placements and marked trails leading from one target zone to the next. Each zone is figured in with a 30 degree safety zone factor to meet the National Field Archery guidelines. The targets will be figured at different distances, shooting lengths, with a built in overshoot safety factor. (Value or 336 straw bales to be compressed into 56 targets - \$1,344.00)

Year Two

1. Finish target loops and trails.
2. Set upper and lower pre-fabricated 8'x20' skid buildings used for range maintenance. (Range buildings are estimated at \$21,000.00. Volunteer labor)

Year Three

NOT BEGUN

1. Improve parking area.
2. Start on field archery range on the lower 20-acres. This will be an open target area with a single firing line for Field Archery applications and for educational uses.

Year Four

1. Start construction, lower 20-acres on 80'x120' indoor archery range with a training and classroom area. (Cost is unknown; however, anticipated grants from the Nevada Department of Wildlife Pittman-Robertson Hunter Education Grants is the anticipated funding source).
2. Construct hunter safety trails, lower 20 acres, for hunter safety education.
3. Complete field archery range.

Year Five

1. Complete construction of indoor range.
2. Complete hunter safety trails.

EXHIBIT D Management Plan (please also refer to terms in Exhibit B)

The range will be open to the public on a daily basis. The range will be a Washoe County Park facility and subleased to Silver Arrow Bowmen, acting as steward for maintenance and operations of the facility.

FEES:

Silver Arrow Bowmen collects tournament and league fees, with approval of the County and BLM, to cover costs associated with maintenance, operations and development of the range including special events. Fees will be used for target repair and replacement, general range maintenance, road grading, archery equipment and special events. Tournaments will include seasonal archery leagues as well as regional and possibly national archery competitions.

Agreement Terms are outlined in Exhibit B and describe roles and responsibilities of the County and Silver Arrow Bowmen, as sub lessee.

USER SURVEY



PUBLIC SURVEY

Following a public meeting held in February 2021, the Master Plan Team conducted an online public survey to gather additional data to inform the master plan process. A dedicated website was created to conduct the survey (see URL below) and between March 1, 2021 and April 30, 2021 there were 31 respondents.

Based on their responses, the survey consisted of a diverse range of individuals with broad interests in the sport of archery. While the majority of respondents identified as an archer there was not the same unanimity in the type of archery that respondents identified with.

The large majority of respondents are familiar with the WCRAF, however, more than 1/3 of the participants do not use the facility. That percentage rose to nearly 1/2 later in the survey when asked about use patterns for the WCRAF.

Of those who do use the facility, responses matched on site observations. 50% of those who use the facility do so during the week with a slight bias towards morning use. On site observations have indicated that the facility is regularly used throughout the week.

Response demographics show that 2/3 of the respondents were male and nearly 3/4 were between the age of 41-65. This indicates an older sport and the Stakeholders saw this as justification for the master planning of future education capacity for the WCRAF.

Lastly, when asked what improvements respondents would most like to see, there was a slight majority responding in favor of the creation of an ada accessible outdoor olympic and paralympic style target course closely followed by trail improvements.

In general, the survey results paralleled the goals of the project Stakeholders and can be seen as validating the outcomes of the master plan effort including the large growth potential to expand facility use.

[HTTPS://WWW.WASHOECOUNTYARCHERY.COM](https://www.washoecountyarchery.com)



USER SURVEY RESULTS

USER SURVEY RAW RESPONSES

Submitted On	1 Are you familiar with Washoe County Regional Archery Facility do you	following to describe your interest in this project	from the following to describe your interest in this project	how close you live to the	6 Do you currently	7 Please indicate	8 Please indicate	Plan would you Build a new Olympic Competition Archery Range	10a If you currently	10b If you currently	10c If you currently
03/02/2021 1:16:59	Yes	I use the 3D Target Range, I use the Set Distance Range, I don't use the Facility	I live close to the Archery Center	I live within 20 miles	Yes	Male	40 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/02/2021 14:29:55	Yes	I don't use the Facility I use the 3D Target Range, I use the Set Distance Range, I use the Broadhead Range	I live close to the Archery Center	I live within 20 miles	Yes	Male	40 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/04/2021 8:40:59	Yes	I use the 3D Target Range, I use the Set Distance Range, I use the Broadhead Range	I saw the meeting announcement and was interested in the project	I live within 10 miles	Yes	Male	41 - 65	Monthly	On weekends		In the afternoon
03/04/2021 16:39:30	Yes	I don't use the Facility	I am an archer	I live within 3 miles	No	Female	Over 65	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/04/2021 17:55:09	Yes	I use the Set Distance Range I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live within 10 miles	Yes	Male	26 - 40	Monthly	On weekends		In the afternoon
03/04/2021 17:58:03	Yes	I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live more than 20 miles	Yes	Male	26 - 40	Monthly	On weekdays		In the afternoon
03/04/2021 18:00:50	Yes	I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live within 10 miles	Yes	Male	41 - 65	Monthly	On weekdays		In the afternoon
03/04/2021 18:02:41	Yes	I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, and 3D target	I am an archer	I live within 10 miles	Yes	Female	26 - 40	Monthly	On weekends		In the afternoon
03/04/2021 18:04:06	Yes	I use the 3D Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live within 10 miles	Yes	Female	41 - 65	Monthly	On weekdays		In the afternoon
03/04/2021 18:11:52	No	I don't use the Facility I use the Field Target Range, I use the Set Distance Range, I use the Broadhead Range	I am interested in the sport of archery	I live within 20 miles	Yes	Male	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
03/04/2021 18:36:13	Yes	I use the 3D Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live within 20 miles	Yes	Male	41 - 65	Monthly	On weekdays		In the morning
03/05/2021 14:55:26	Yes	I use the Set Distance Range	I am an archer	I live within 20 miles	Yes	Male	41 - 65	Monthly	On weekdays		In the morning
03/06/2021 9:04:31	No	I don't use the Facility	I am interested in the sport of archery	I live within 20 miles	Yes	Female	26 - 40	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/06/2021 9:14:19	Yes	I use the Field Target Range, I use the Set Distance Range	I am an archer	I live within 10 miles	Yes	Male	41 - 65	Monthly	On weekends		In the afternoon
03/06/2021 10:38:44	Yes	I use the Field Target Range, I use the Set Distance Range	I am an archer	I live more than 20 miles	Yes	Male	41 - 65	Monthly	On weekends		In the afternoon
03/06/2021 17:02:20	Yes	I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range	I am an archer	I live within 20 miles	Yes	Male	41 - 65	Weekly	On weekdays		In the morning
03/06/2021 17:50:34	No	I don't use the Facility	I am an archer	I live within 20 miles	Yes	Male	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/07/2021 15:19:22	Yes	I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, I use the Broadhead Range	I live close to the Archery Center	I live within 20 miles	Yes	Male	41 - 65	Weekly	On weekdays		In the morning
03/08/2021 8:50:00	Yes	I use the 3D Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live within 10 miles	Yes	Male	41 - 65	Monthly	On weekdays		In the morning
03/17/2021 19:17:15	No	I don't use the Facility I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live more than 20 miles	No	Female	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
03/17/2021 19:21:05	No	I use the 3D Target Range, I use the Set Distance Range, I use the Broadhead Range	I am an archer	I live more than 20 miles	No	Female	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
03/20/2021 11:18:39	No	I don't use the Facility	I am an archer	I live more than 20 miles	Yes	Female	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/21/2021 13:29:52	Yes	I use the Set Distance Range	I am an archer	I live within 10 miles	Yes	Female	26 - 40	Weekly	On weekends		In the afternoon
03/21/2021 16:15:02	Yes	I use the Field Target Range, I use the Set Distance Range	I live close to the Archery Center	I live within 10 miles	Yes	Female	41 - 65	Weekly	On weekends		In the afternoon
03/21/2021 19:54:55	Yes	I don't use the Facility	I live close to the Archery Center	I live within 10 miles	Yes	Male	26 - 40	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/22/2021 0:01:52	No	I don't use the Facility	I saw the meeting announcement and was interested in the project	I live within 20 miles	Yes	Male	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the afternoon
03/22/2021 17:58:23	No	I don't use the Facility	I am interested in the sport of archery	I live within 10 miles	Yes	Male	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
03/25/2021 13:03:12	No	I don't use the Facility	I am an archer	I live within 20 miles	Yes	Female	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
03/26/2021 8:27:21	Yes	I use the Field Target Range, I use the Set Distance Range, I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range	I am an archer	I live within 20 miles	Yes	Male	Over 65	Weekly	On weekdays		In the morning
03/31/2021 5:29:03	Yes	I use the 3D Target Range, I use the Field Target Range, I use the Set Distance Range	I am an archer	I live within 20 miles	Yes	Male	41 - 65	Monthly	On weekends		In the morning
04/04/2021 11:25:58	No	I use the Field Target Range	I am interested in the sport of archery	I live within 10 miles	Yes	Male	Over 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
04/26/2021 11:59:05	Yes	I don't use the Facility	I saw the meeting announcement and was interested in the project	I live within 3 miles	Yes	Male	Over 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning
05/01/2021 13:41:36	No	I don't use the Facility	I am interested in the sport of archery	I live within 10 miles	No	Male	41 - 65	Monthly	I don't use the Arc	I don't use the Arc	In the morning

Q1: ARE YOU FAMILIAR WITH THE WASHOE COUNTY REGIONAL ARCHERY FACILITY?

• YES:	21	(68%)
• NO:	10	(32%)

Q7: WHAT IS YOUR GENDER?

• MALE:	21	(68%)
• FEMALE:	10	(32%)

Q2: WHAT ASPECTS OF THE REGIONAL ARCHERY FACILITY DO YOU USE?

• FIELD ARCHERY ONLY:	1	(3%)
• 3D TARGETS ONLY:	0	(0%)
• SET DISTANCE ONLY:	3	(10%)
• SET DIST. + FIELD:	4	(13%)
• FIELD + 3D:	11	(35%)
• 3D + SET DISTANCE:	1	(3%)
• DOES NOT USE	11	(35%)

Q8: PLEASE INDICATE YOUR AGE RANGE:

• 26 - 40:	6	(19%)
• 41 - 65:	22	(70%)
• >65:	3	(10%)

Q9: WHICH ASPECT OF THE MASTER PLAN WOULD YOU MOST LIKE TO SEE HAPPEN?

• OLYMPIC COURSE:	9	(29%)
• IMPROVE PATHS:	7	(22%)
• ENTRANCE ROAD:	6	(19%)
• EDUCATION FACILITIES:	4	(13%)
• WAY FINDING:	4	(13%)

Q3: DESCRIBE YOUR INTEREST IN THIS PROJECT

• I LIVE CLOSE BY:	5	(16%)
• SAW ANNOUNCEMENT:	2	(6%)
• I AM AN ARCHER:	20	(67%)
• INTERESTED IN SPORT	4	(13%)

Q10: I USE THE EXISTING FACILITY:

• DON'T USE:	14	(45%)
• WEEKLY:	4	(13%)
• MONTHLY:	13	(42%)

Q4: DESCRIBE YOUR INTEREST IN ARCHERY

• INTEREST IN LEARNING:	7	(23%)
• HUNTER:	5	(16%)
• OLYMPIC ARCHERY:	6	(19%)
• 3D + FIELD:	13	(42%)

Q11: I USE THE EXISTING FACILITY:

• DON'T USE:	15	(48%)
• WEEKDAYS:	8	(26%)
• WEEKENDS:	7	(23%)

Q5: HOW CLOSE DO YOU LIVE TO THE REGIONAL ARCHERY FACILITY?

• <3 MILES:	1	(3%)
• <10 MILES:	12	(39%)
• <20 MILES:	13	(42%)
• >20 MILES	5	(16%)

Q12: I USE THE EXISTING FACILITY:

• AFTERNOON:	18	(58%)
• MORNING:	13	(42%)

Q6: DO YOU CURRENTLY USE WASHOE COUNTY RECREATIONAL FACILITIES OR PARKS

• YES:	28	(90%)
• NO:	3	(10%)

USER SURVEY

RESPONDENT COMMENTS

Would love to see the expansion of the facilities and continued promotion of the sport.

The addition of a bathroom would be wonderful

love this place. so glad it exists.

I would like to see additional interest in the field archery range. For instance platform stands, or ground blinds.

I only heard about the center recently when my mother saw a piece on the local news. I will go there as soon as possible.

There is a lot of people out there that would like to see this place expand. It would be great to have easier paths for people to get to targets. A flatter area for olympic style shooting. Definitely upgrade the traing facility and restrooms.

We are considering a move from Montana to Nevada. Thus the response, "do not currently use the ranges".

We plan to move from Montana & having a great place to shoot Olympic, 3D & field is important. We both hunt. I coach as well.

I did not even know the county had an archery center.

I've used it in the past. Before a car accident. Not currently using it. Target shooting and Olympic recurve are my fave.

I'm interested in archery lessons for my son take years old and me as well

My husband and I are beginning archers and didn't know about this facility until we saw it on the news. We went out to see the facility but it was not easy to understand how the stations were supposed to be used. And very little to no signage. I would love to see it improved so we can start using it.

I am new to archery. I have taken lesson at Wasting Arrows, But I would like to shoot outdoors. No I am not a hunter.

What about crossbows? Are they allowed on this facility if you have a approved target? I own a crossbow. but thinking about a bow purchase

SITE CONTEXT

CONTEXT OVERVIEW

The following section documents the Washoe County Regional Archery Facility in its context including:

Regional Archery Facilities: The WCRAF is unique in its location and environment. This aspect of the facility as well as its accessibility to central California archers results in a facility that regularly draws archers from over 100 miles away. The regional nature of the facility (as opposed to local) is one of the driving factors for enhanced amenities.

Site Location: Illustrates the location of nearby communities to the WCRAF.

Major Road Access: As can be seen in this study, the WCRAF is somewhat limited in its access to the people of Washoe County and Northern Nevada. While long term plans do exist that will make the facility more accessible to the community, there are limited opportunities to address this in the short term.

Federal Lands Plan: The WCRAF is located on federal land leased to Washoe County. As can be seen, the majority of land to the south, east and north is also federally held land. To the northwest, however, this land is privately held which may impact some improvement options.

Tribal Lands Plan: The WCRAF is not located on tribal lands and none are adjoining the facility.

Zoning/Land Use: The WCRAF is consistent with county zoning located in Rural and/or Open Space land use designations.

Fire Risk Plan: The WCRAF is located on federal land which the County does not designate for fire risk, however, the County does identify the surrounding lands as High Fire Risk and it should be assumed that the WCRAF would fall under a similar distinction.

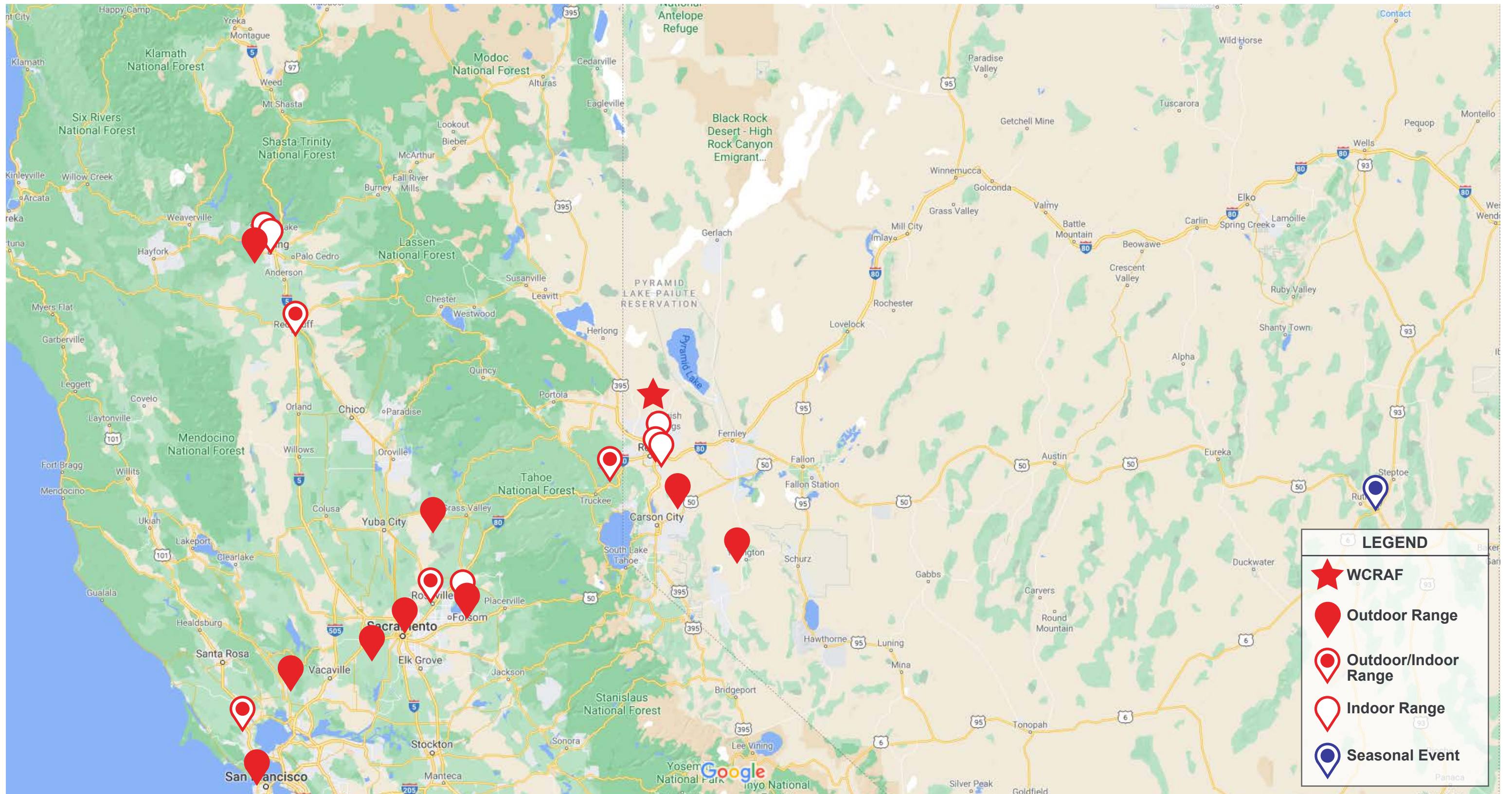
Related Services & Facilities: The WCRAF location is shown in relation to retail outlets and support facilities expected to be impacted by the success of the facility.

County Recreation Plan: The WCRAF shown in relationship to nearby County Parks and Open Space.

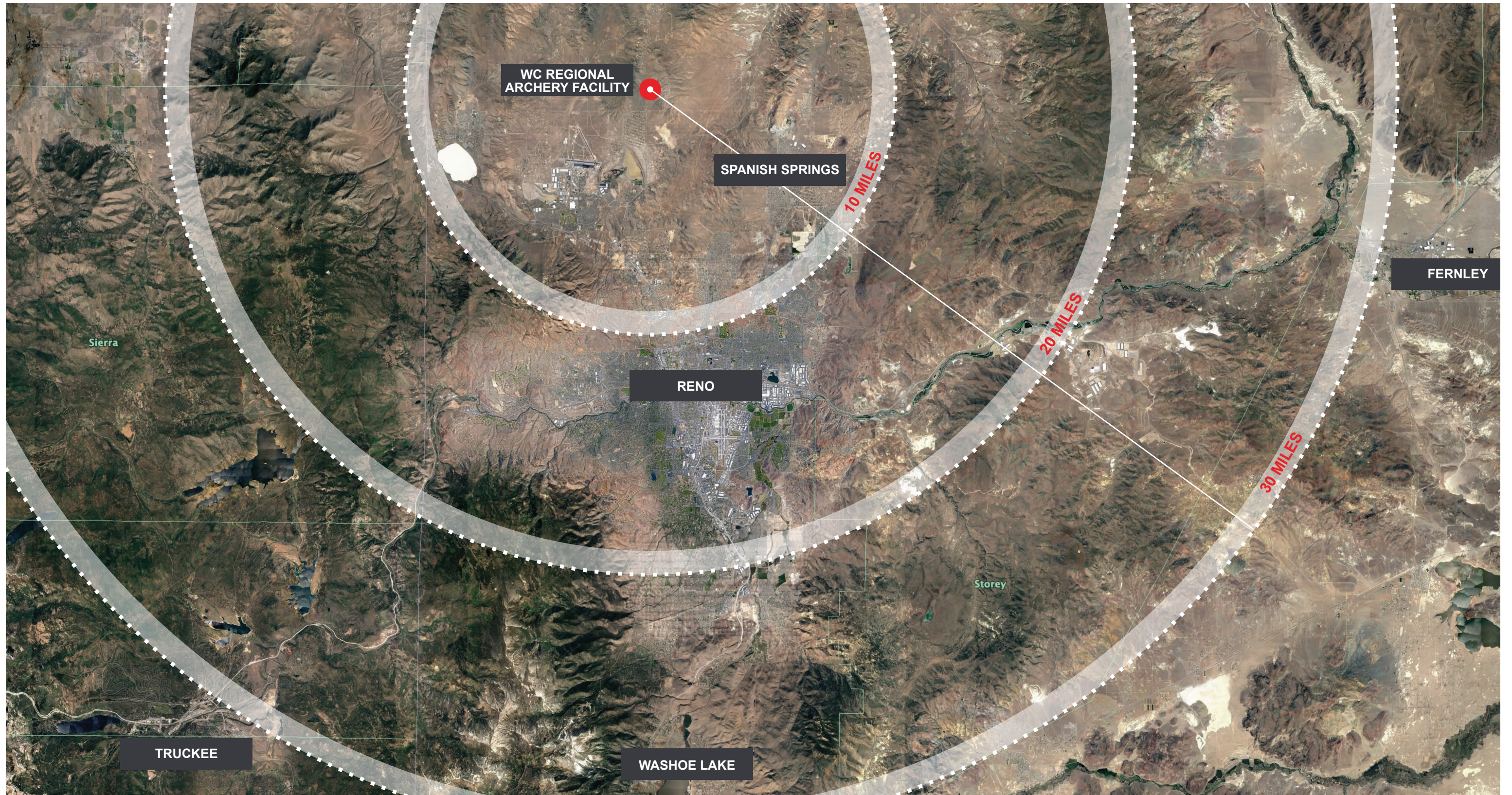
Climatic Site Analysis: As an outdoor sport, archery is affected by the local weather patterns. This analysis indicates annual wind patterns and solar orientation for the WCRAF.



REGIONAL ARCHERY FACILITIES MAP



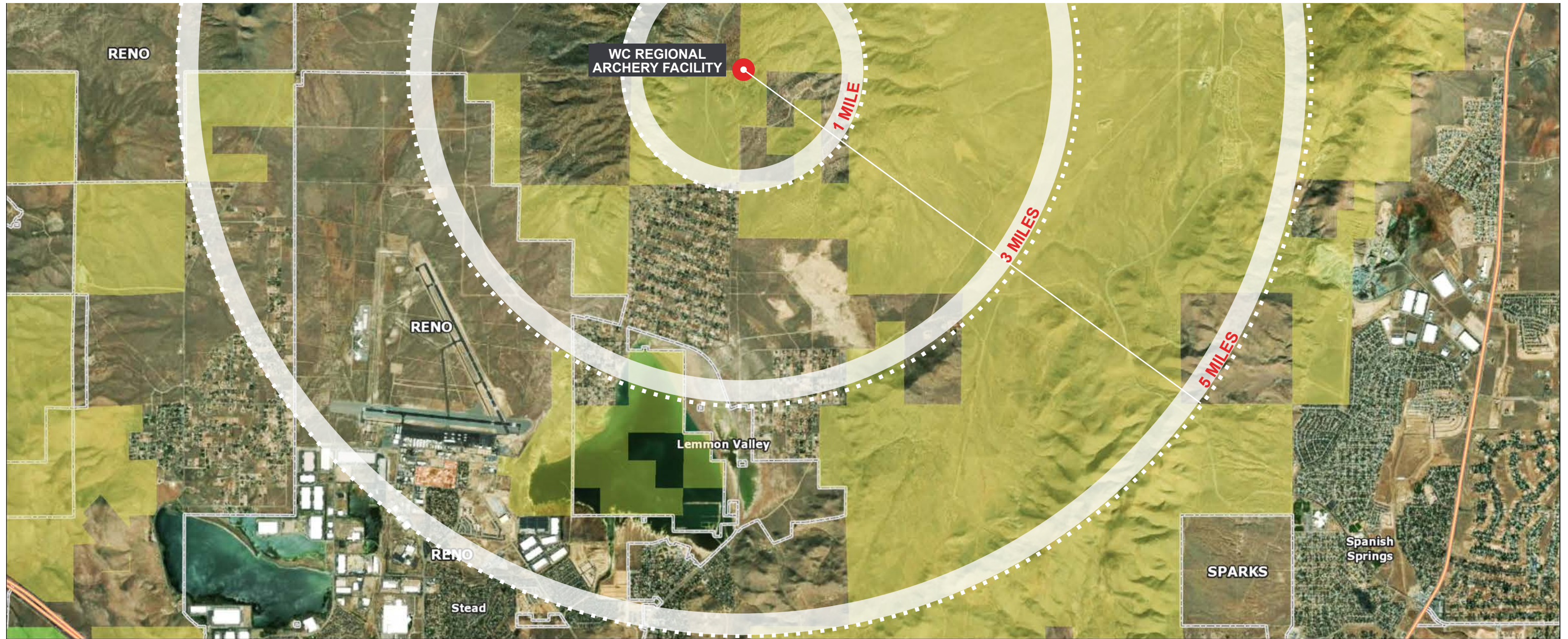
SITE LOCATION



MAJOR ROAD ACCESS



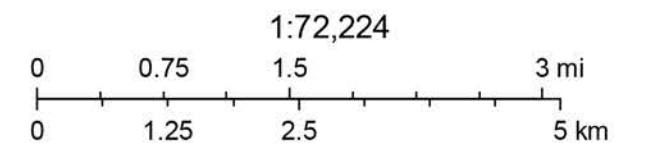
FEDERAL LANDS PLAN



February 16, 2021

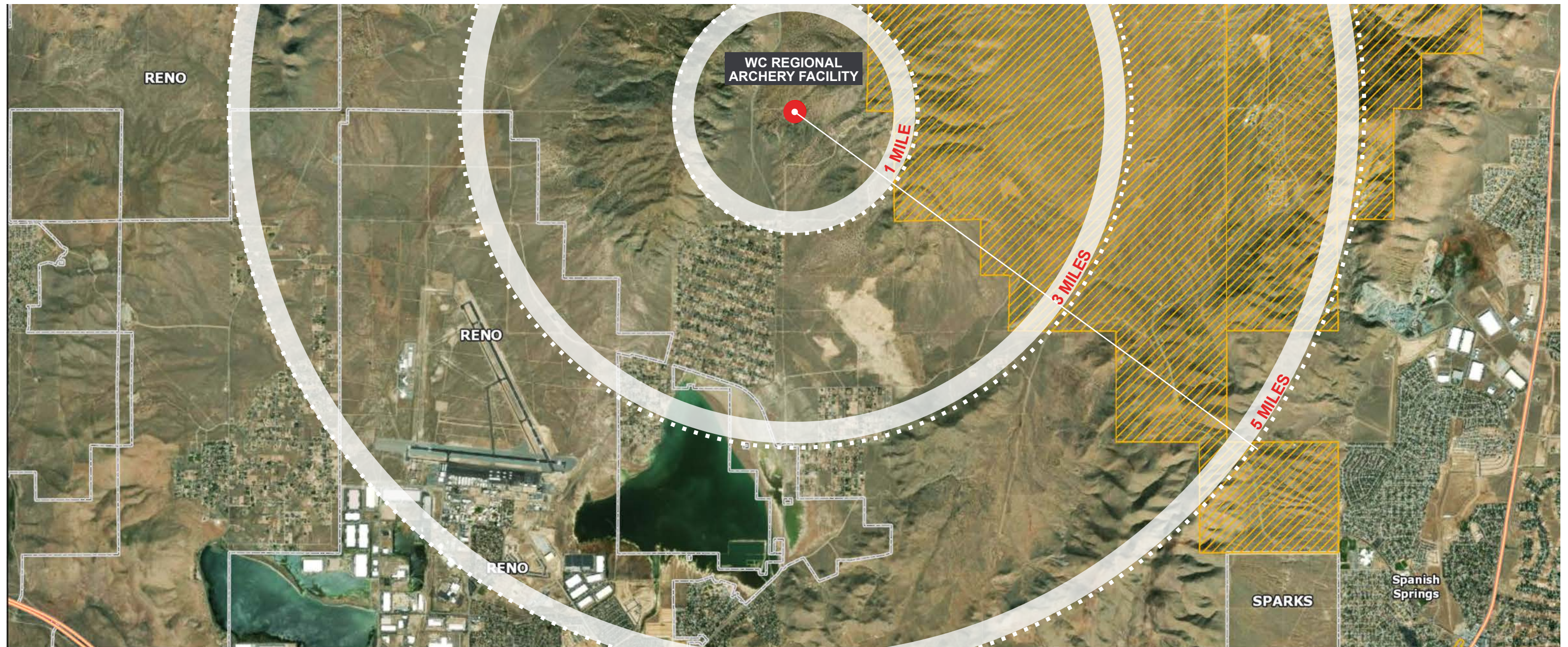
Federal Land

- | | | | | | |
|---|------------------------------|---|------------------------------|---|--------------|
|  | Bureau of Land Management |  | Fish and Wildlife Service |  | Parcel Notes |
|  | Bureau of Reclamation |  | Internal Revenue Service | | |
|  | Department of Defense |  | United States Forest Service | | |
|  | Department of Justice |  | United States Postal Service | | |
|  | Department of Labor/JOBCORPS |  | United States of America | | |
| | |  | Veterans Administration | | |





Washoe County
 Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Washoe County GIS

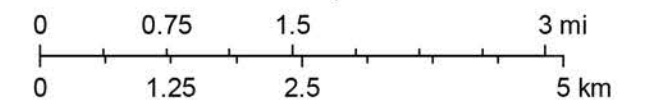
TRIBAL LANDS



March 2, 2021

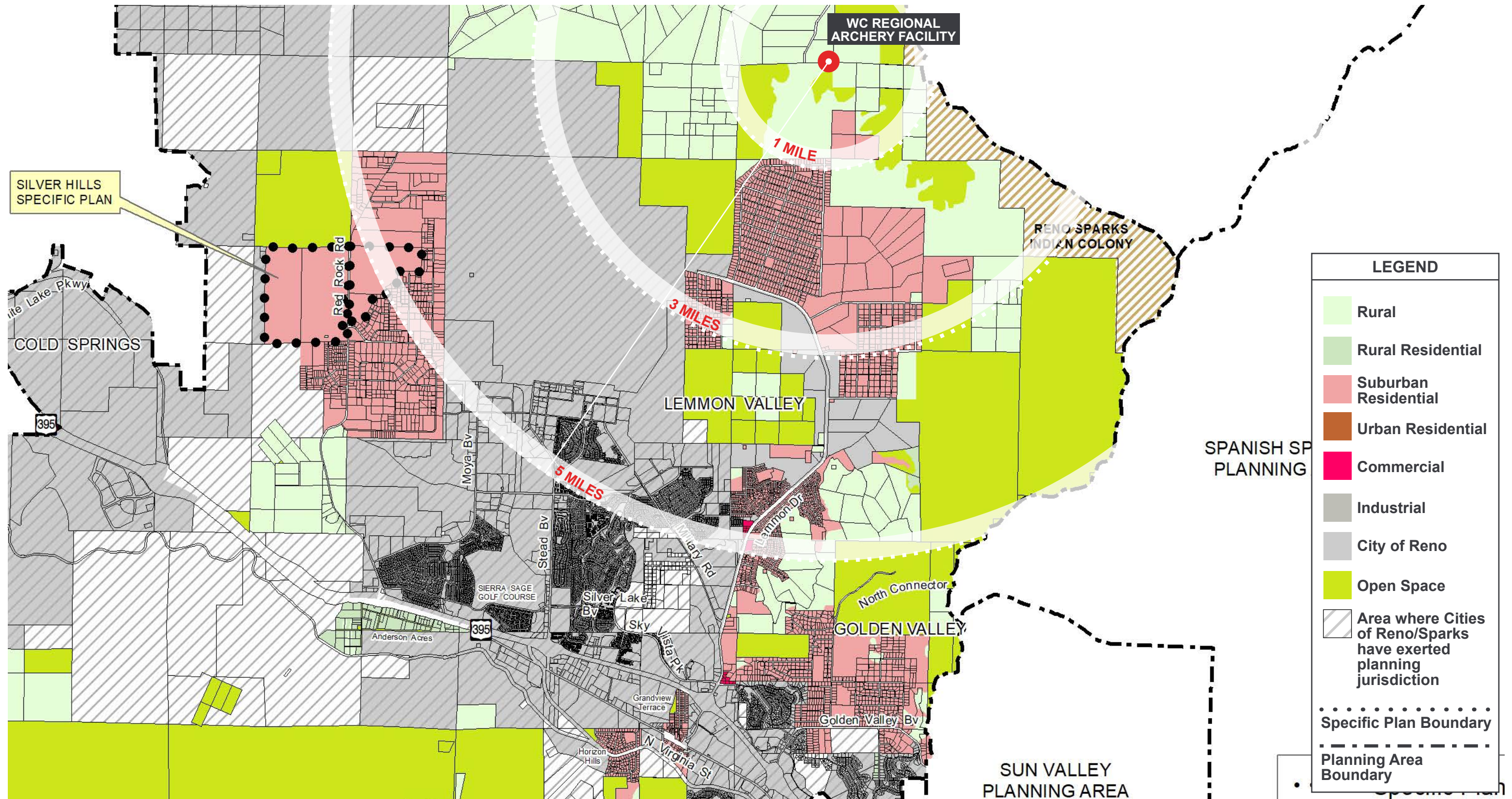
-  Tribal Lands
-  Parcel Notes

1:72,224

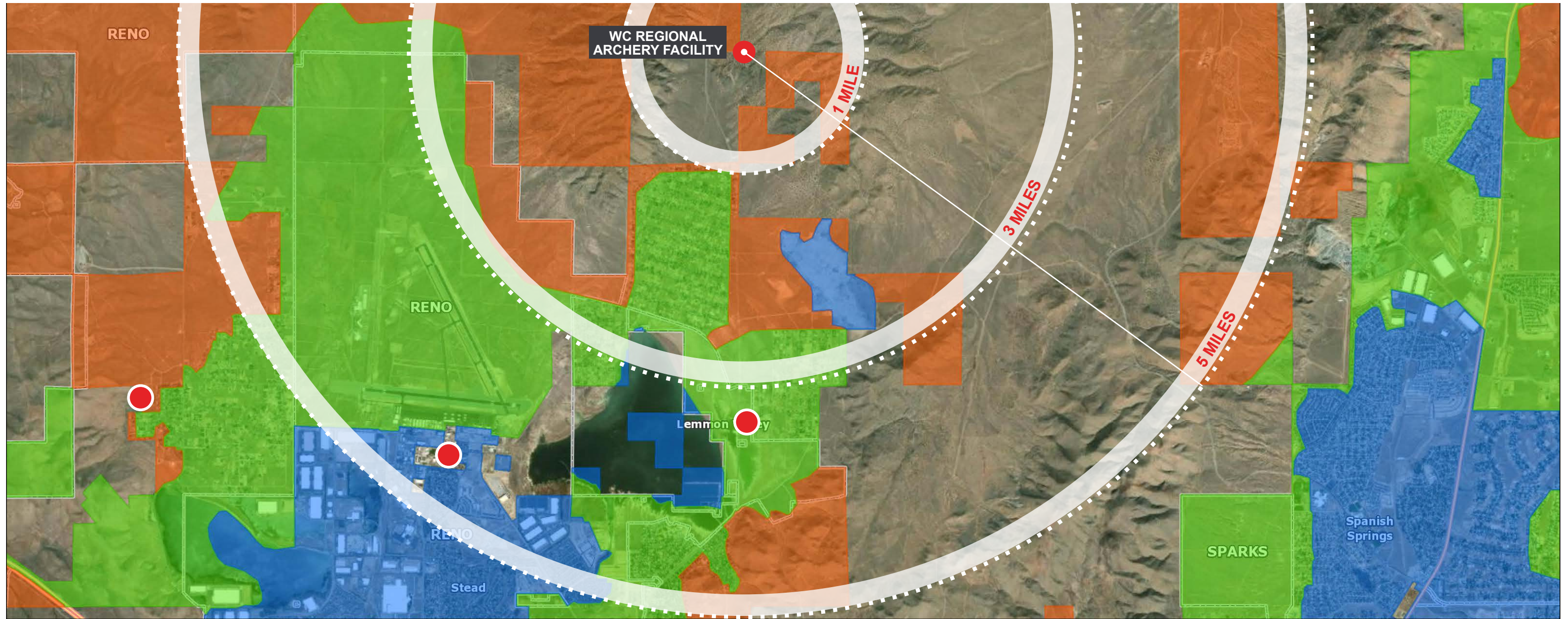


Washoe County
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Washoe County GIS

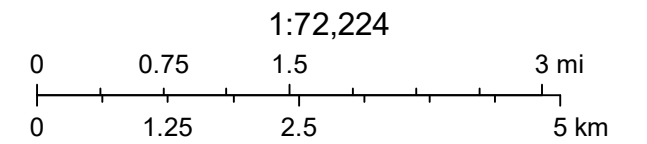
NORTH VALLEYS PLANNING AREA ZONING/ LAND USE



WASHOE COUNTY FIRE RISK PLAN

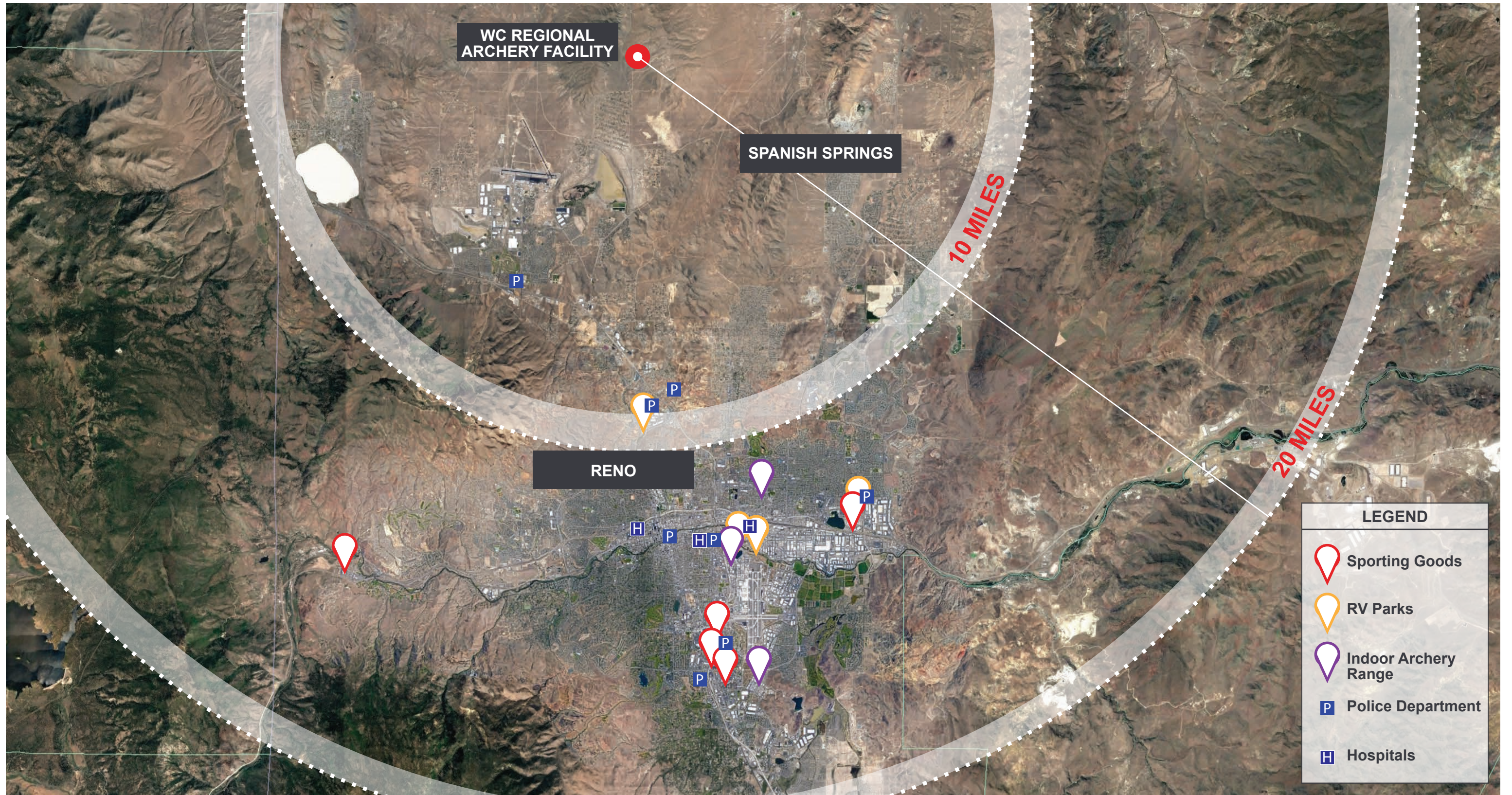


February 16, 2021

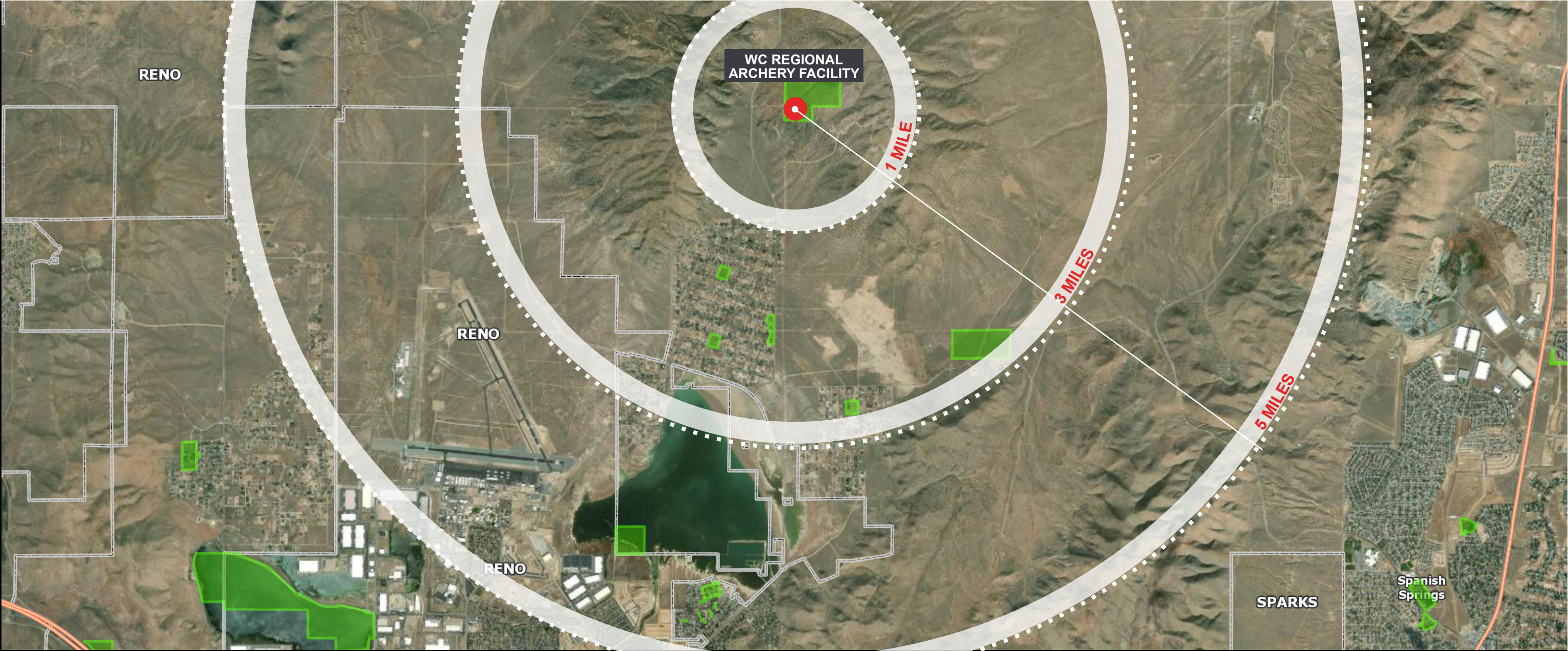


Washoe County
 Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Washoe County GIS

RELATED SERVICES & FACILITIES

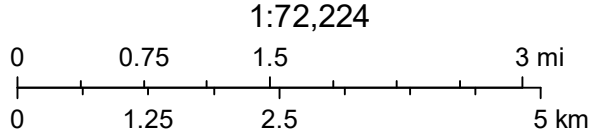


COUNTY RECREATIONAL PLAN



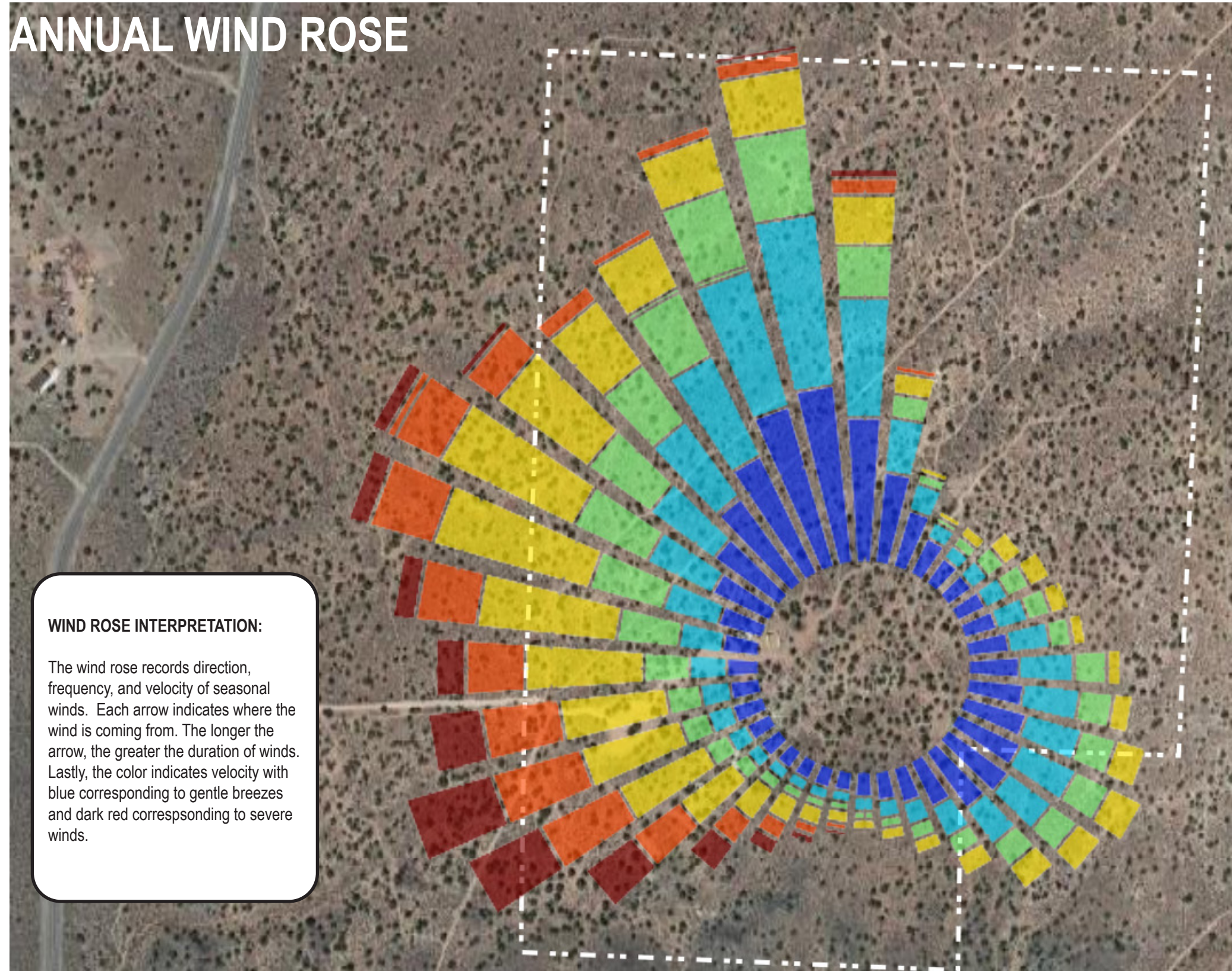
March 2, 2021

- Washoe Parks & Open Space
- Parcel Notes



Washoe County
 Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 Washoe County GIS

ANNUAL WIND ROSE

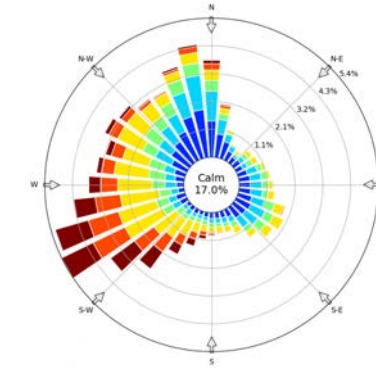


WIND ROSE INTERPRETATION:

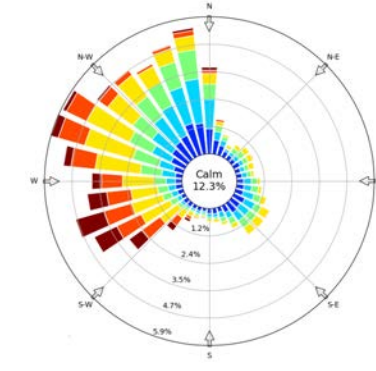
The wind rose records direction, frequency, and velocity of seasonal winds. Each arrow indicates where the wind is coming from. The longer the arrow, the greater the duration of winds. Lastly, the color indicates velocity with blue corresponding to gentle breezes and dark red corresponding to severe winds.

CLIMATIC ANALYSIS

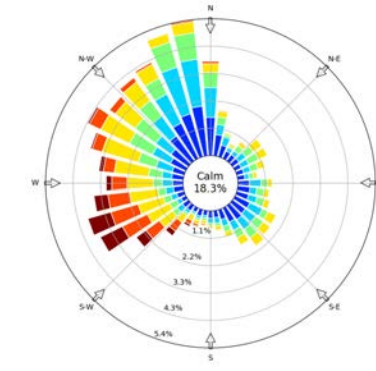
MARCH - WIND ROSE



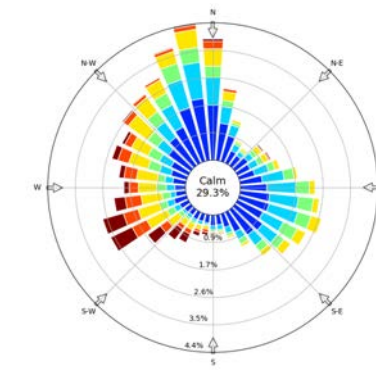
JUNE - WIND ROSE



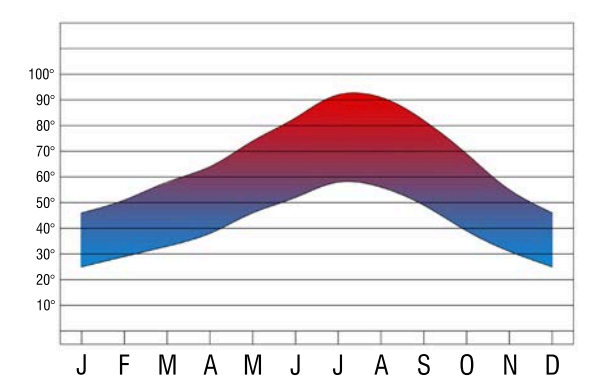
SEPTEMBER - WIND ROSE



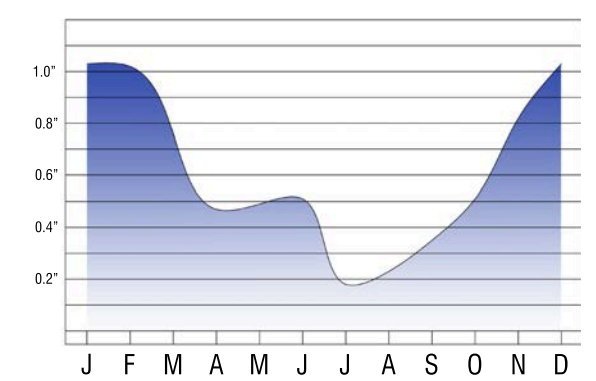
DECEMBER - WIND ROSE



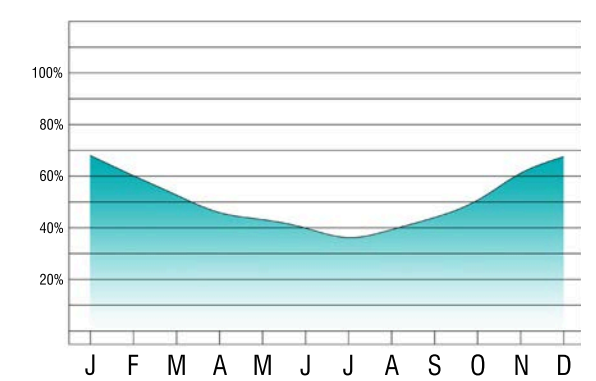
ANNUAL TEMPERATURE

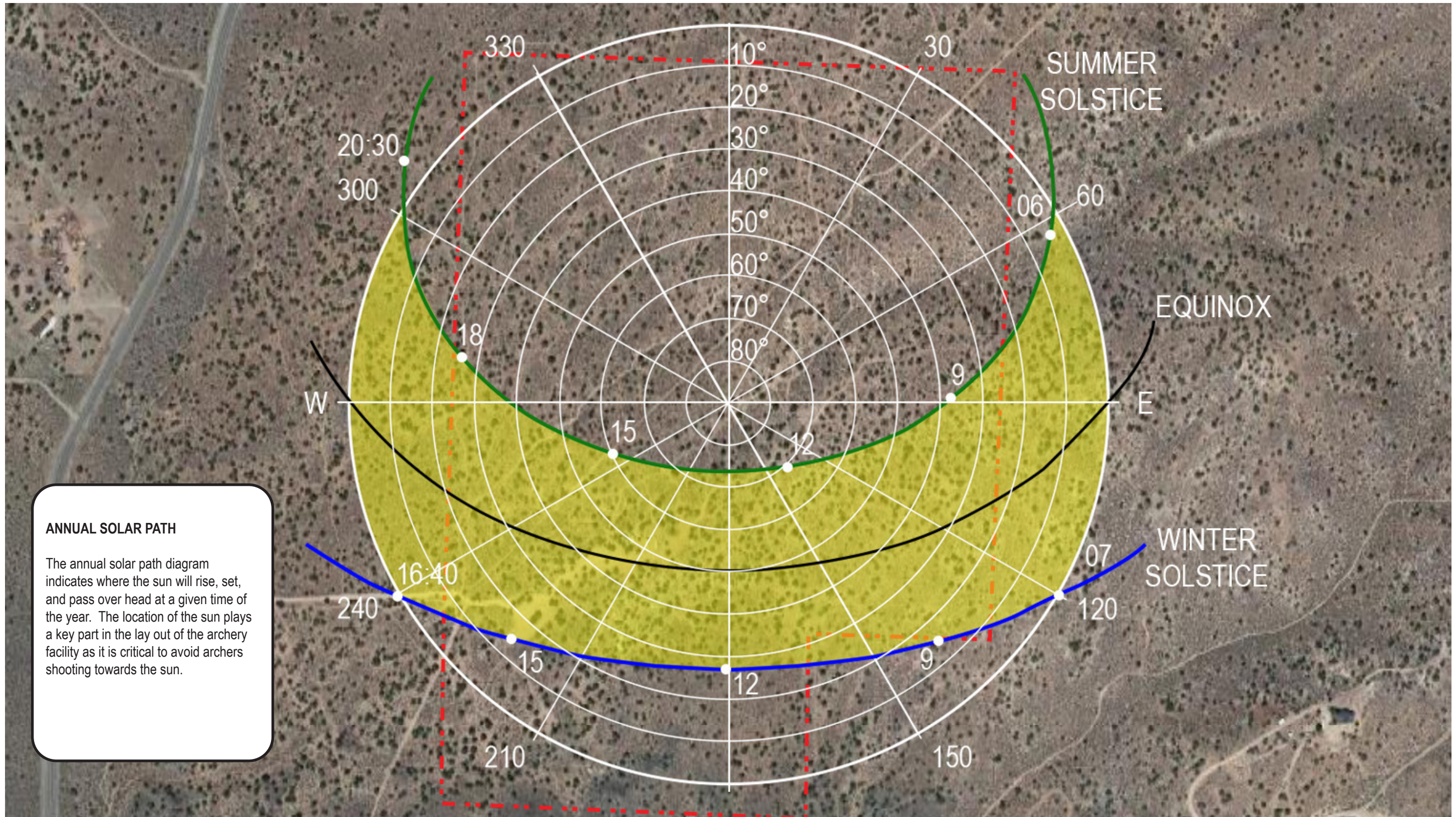


ANNUAL PRECIPITATION



ANNUAL HUMIDITY





THE REGIONAL ARCHERY FACILITY

IMPROVEMENT PLAN



RECOMMENDED IMPROVEMENTS



IMPROVEMENTS OVERVIEW

Working with County Staff, Project Stakeholders and the Nevada Department of Wildlife, the Master Plan Team identified four areas of future improvement for the Washoe County Regional Archery Facility. In broad terms these consisted of:

Access Improvement: Access to the WCRAF was identified as a critical improvement for the long term goals and success of the facility. These improvements included improved signage and way finding from US-395 to the WCRAF, improved on-site parking, and most significantly the reconstruction of the access road to permit year round access. Although nearly the entirety of the proposed access improvements would occur outside of the WCRAF boundary and the limits of this master plan they are included in this document for reference and in recognition of the impact these would have on the success of the WCRAF.

Existing Course Improvements (Priority 1): Washoe County Regional Archery Facility has been in existence in some form or another for over two decades. In that time it has built a reputation as a challenging and rewarding course, however, its current amenities and course condition have fallen behind its peer institutions. Reinvestment in the existing courses was seen as an essential aspect of the master plan and had unanimous support among the Master Planning Team and Stakeholders.

Permanent Facilities for Education Activities (Priority 2): Expanding the role of the WCRAF in archery education and hunter education was identified as an important opportunity for the facility to participate in the expansion of the sport and build ties with the Nevada Department of Wildlife. The construction of such facilities would open the WCRAF to novice/beginning archers as well as make the facility more accessible to all.

Develop Outdoor Target Archery On-site (Priority 3): Currently, the focus of the WCRAF is on Field and 3D Archery to the exclusion of other archery interests. Within the region there is significant demand for Outdoor Target (Olympic and Paralympic) Archery Facilities capable of supporting youth sports and tournaments. The master plan proposes the construction of facilities to support this aspect of the sport to build a larger and more cohesive archery community in the region.

The four proposed improvements are illustrated on the following pages.

Improving Accessibility: Improving access for all archers is a core goal of this master plan. It is the intention of the projects outlined under Access Improvement, Permanent Facilities for Education Activities, and Develop Outdoor Target Archery On-site to make the sport of archery in Washoe County archers regardless of physical condition and provide ADA accessibility.



ACCESS IMPROVEMENTS



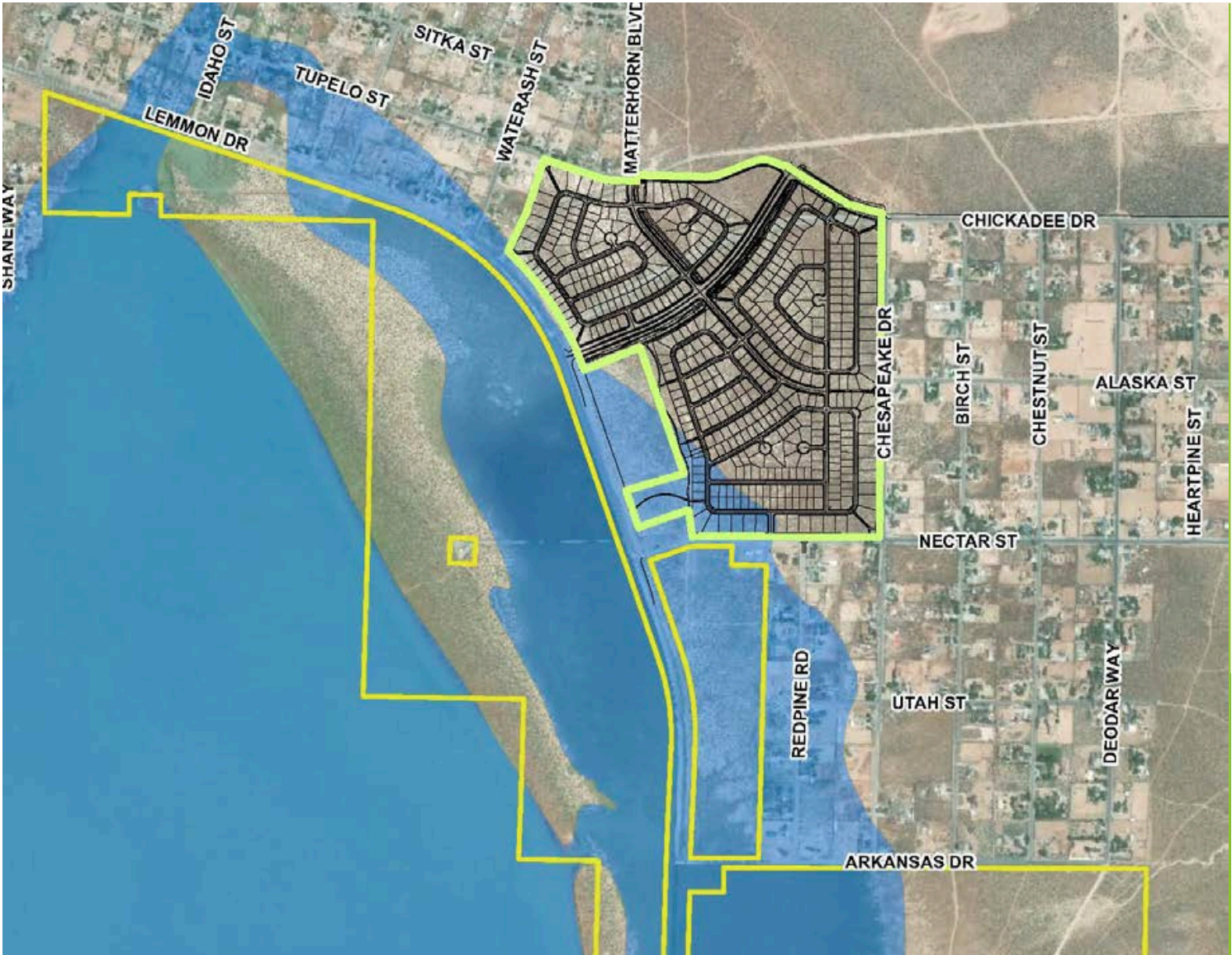
ACCESS IMPROVEMENTS

Currently, access to the Washoe County Regional Archery Facility requires passage through a Lemmon Valley residential development using neighborhood rather than arterial streets. In the course of developing this master plan, community residents express concern over the potential for increased traffic and the impact that this would have on their community. As can be seen in the diagram at left, there is no direct connection between Matterhorn Blvd. and Lemmon Dr. Traffic is required to take one of four small side streets to Waterash St. to then reach Lemmon Dr.

The preferred solution would be to connect Matterhorn directly to either Lemmon Dr. or Chickadee Dr. allowing traffic to bypass Waterash St. and the other residential streets entirely. (Note: Sand Pit is not recognized as an established road) That recommendation is outside of the scope of this master plan, however, it should be noted that the Prado Ranch Development currently in the approval process would resolve this issue as it includes connecting Matterhorn Blvd. to Lemmon Dr. via a new arterial road.

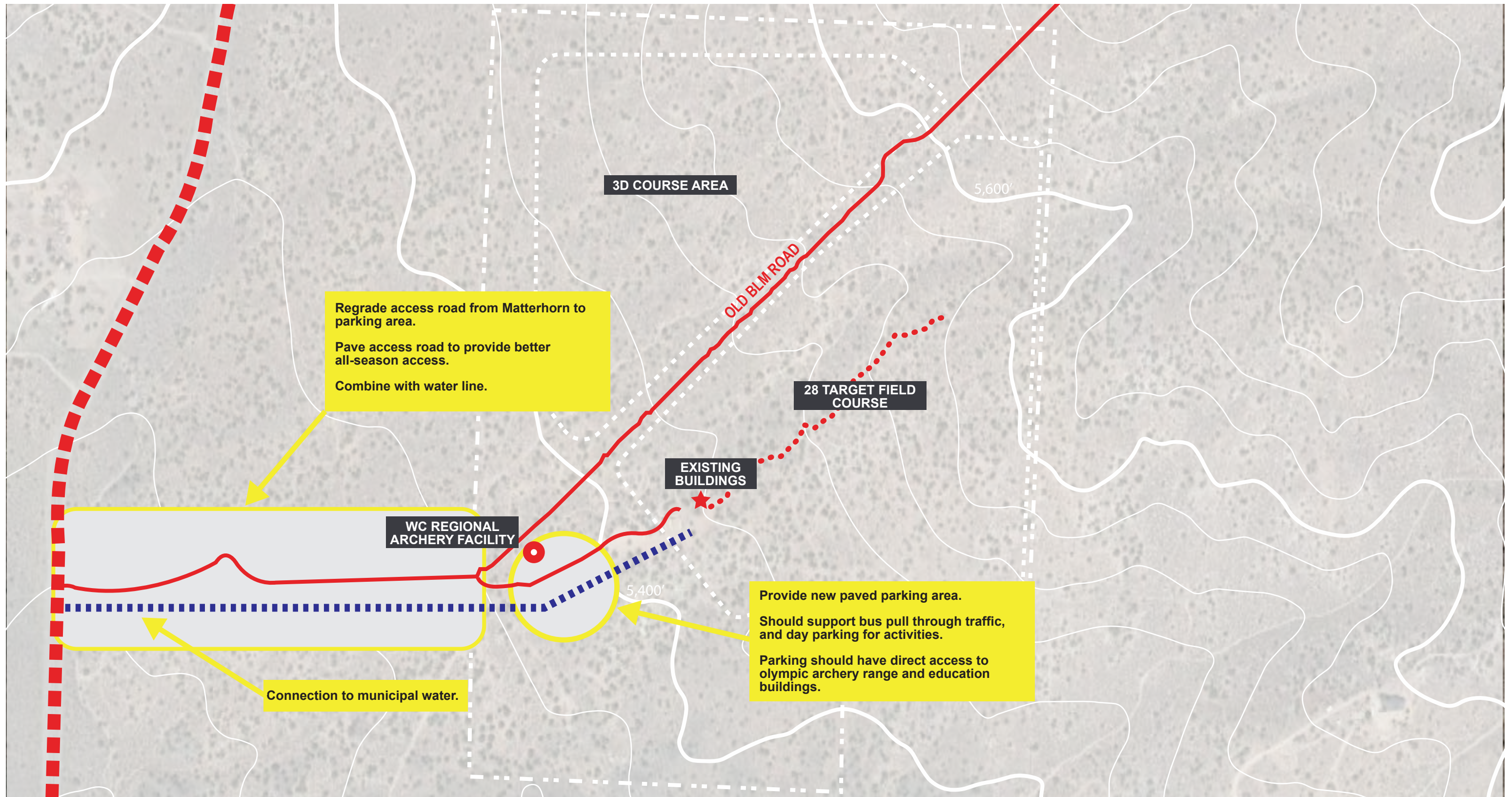


EXISTING TRAFFIC FLOW

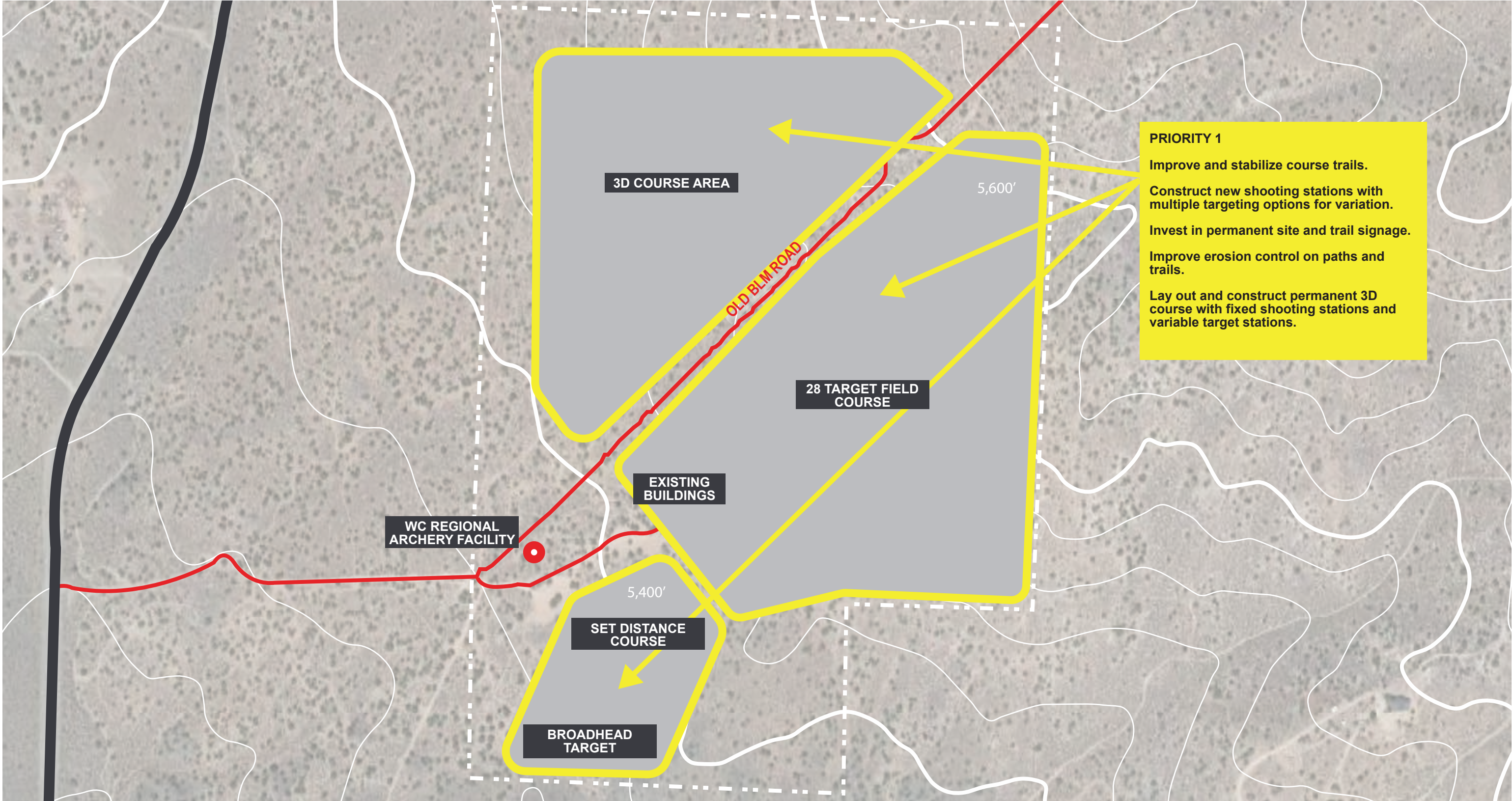


PROPOSED PRADO RANCH STREET PLAN

SITE ACCESS IMPROVEMENTS



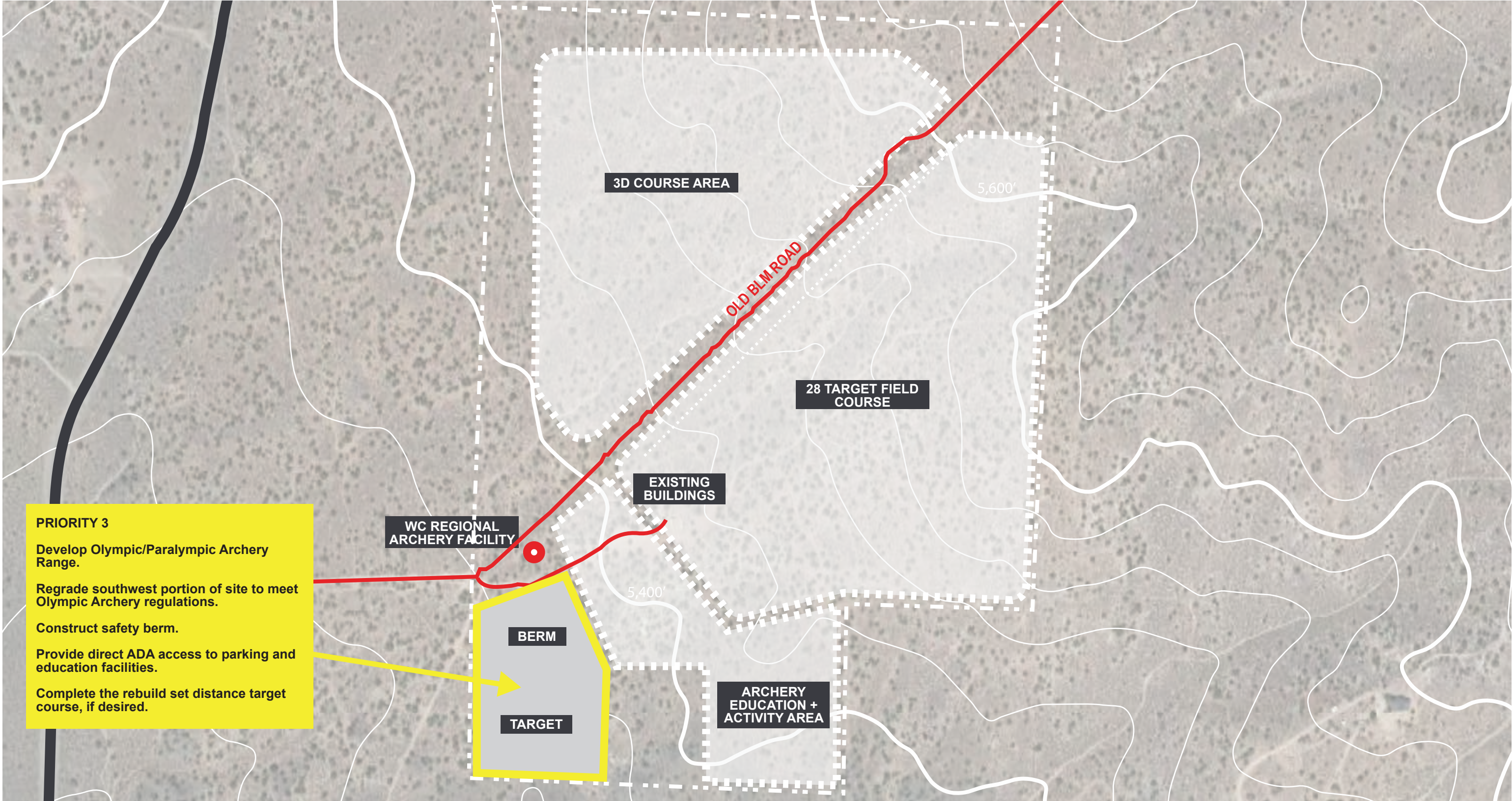
MASTER PLAN PRIORITY - 1



MASTER PLAN PRIORITY - 2



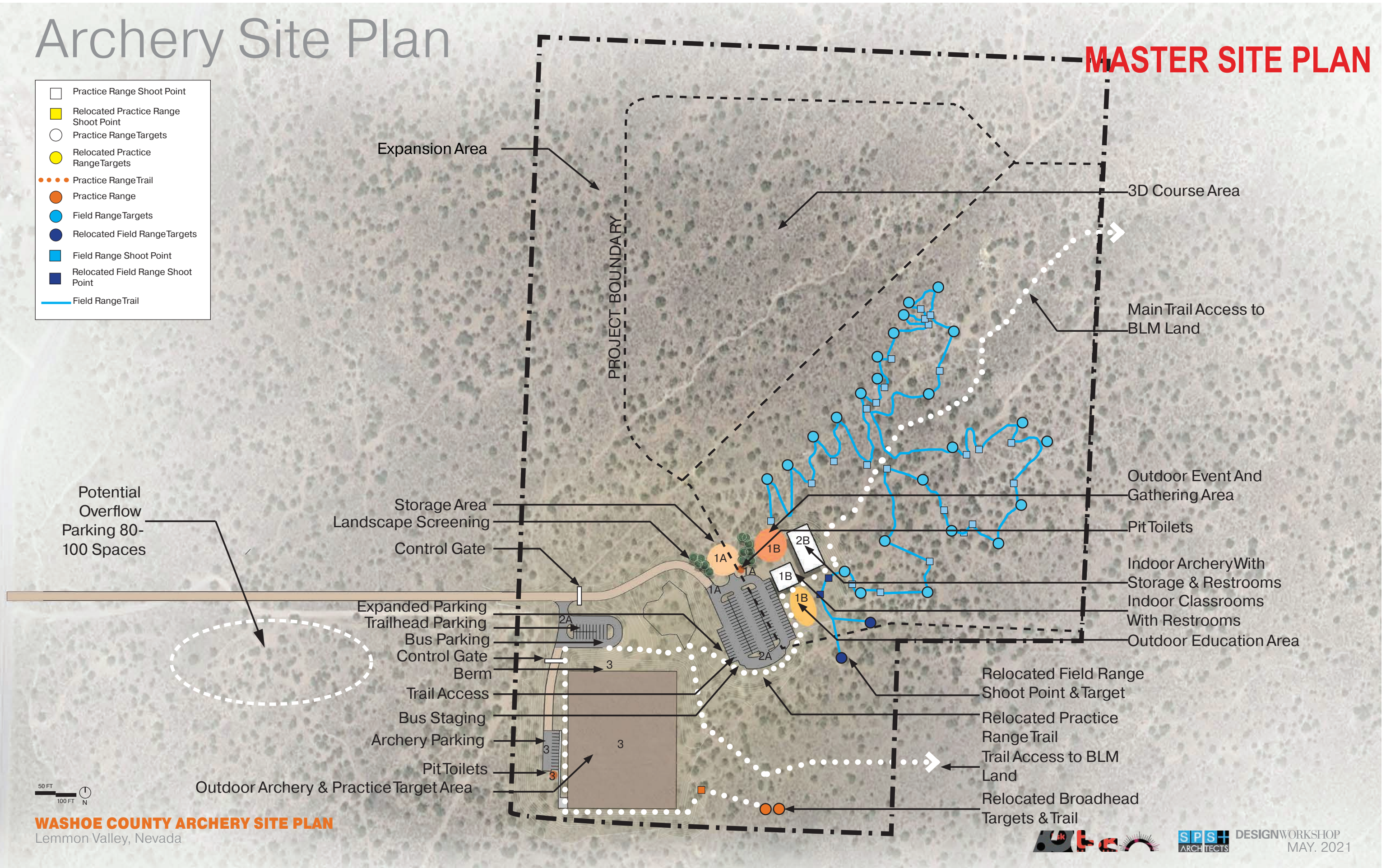
MASTER PLAN PRIORITY - 3



Archery Site Plan

MASTER SITE PLAN

- Practice Range Shoot Point
- Relocated Practice Range Shoot Point
- Practice Range Targets
- Relocated Practice Range Targets
- Practice Range Trail
- Practice Range
- Field Range Targets
- Relocated Field Range Targets
- Field Range Shoot Point
- Relocated Field Range Shoot Point
- Field Range Trail



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada

utec **SPS+ ARCHITECTS** DESIGNWORKSHOP
MAY. 2021

PHASE 1

IMPROVEMENTS

- Practice Range Shoot Point
- Relocated Practice Range Shoot Point
- Practice Range Targets
- Relocated Practice Range Targets
- Practice Range Trail
- Practice Range
- Field Range Targets
- Relocated Field Range Targets
- Field Range Shoot Point
- Relocated Field Range Shoot Point
- Field Range Trail

Expansion Area

PROJECT BOUNDARY

3D Course Area

Main Trail Access to BLM Land

Storage Area
Landscape Screening
Control Gate

Outdoor Event And Gathering Area
Pit Toilets
Indoor Classrooms With Restrooms
Outdoor Education Area

Parking For Indoor Classrooms
Bus Staging

Relocated Field Range Shoot Point & Target
Relocated Practice Range Trail
Relocated Practice Range Shoot Point & Target



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada



DESIGNWORKSHOP
MAY, 2021

PHASE 2

IMPROVEMENTS

- Practice Range Shoot Point
- Relocated Practice Range Shoot Point
- Practice Range Targets
- Relocated Practice Range Targets
- Practice Range Trail
- Practice Range
- Field Range Targets
- Relocated Field Range Targets
- Field Range Shoot Point
- Relocated Field Range Shoot Point
- Field Range Trail

Expansion Area

PROJECT BOUNDARY

3D Course Area

Main Trail Access to BLM Land

Indoor Archery With Storage & Restrooms

Expanded Parking

Trailhead Parking

Bus Parking

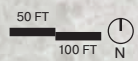
Trail Access

Bus Staging

Relocated Field Range Shoot Point & Target

Relocated Practice Range Trail

Relocated Practice Range Shoot Point & Target



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada

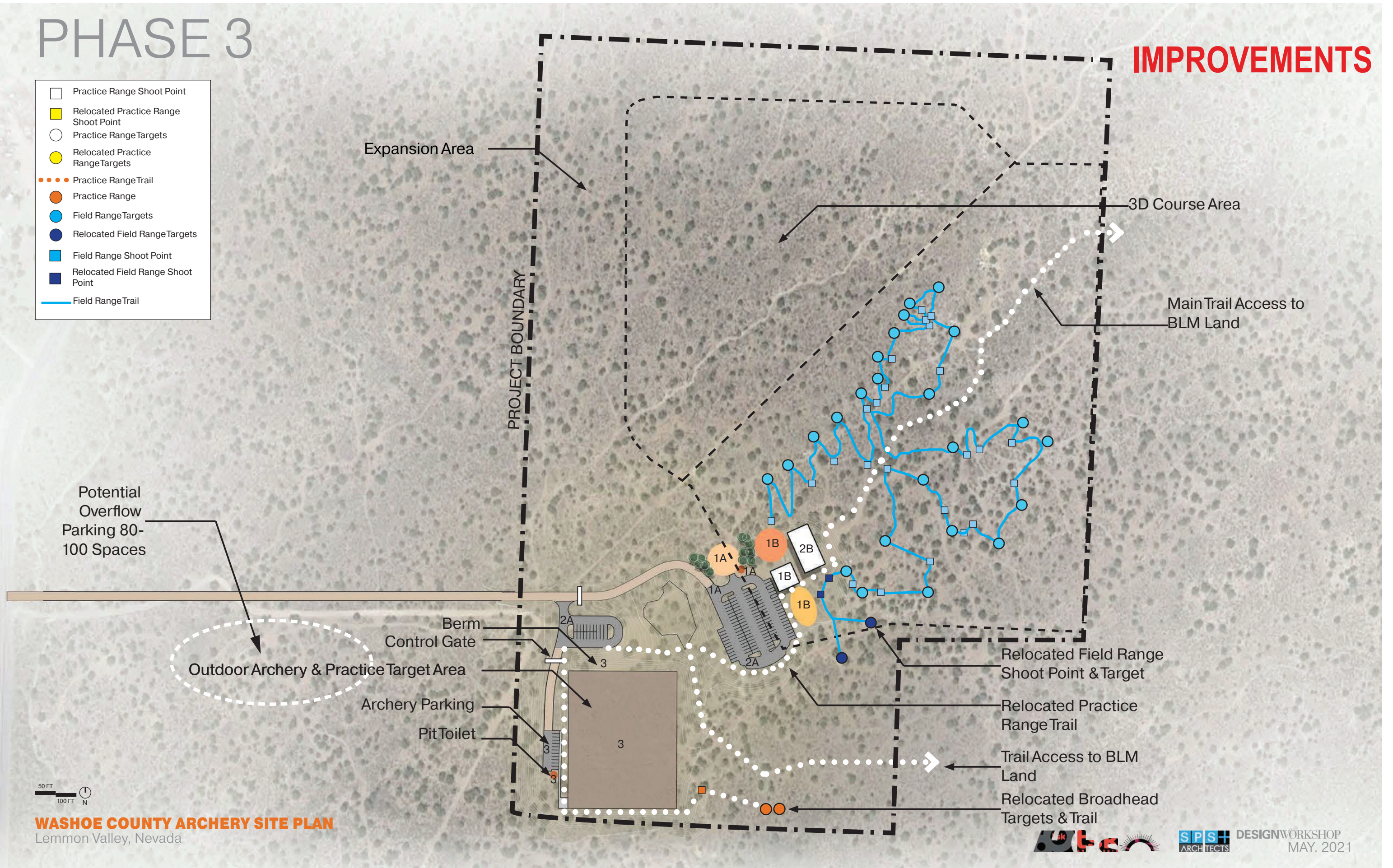


DESIGNWORKSHOP
MAY. 2021

PHASE 3

IMPROVEMENTS

- Practice Range Shoot Point
- Relocated Practice Range Shoot Point
- Practice Range Targets
- Relocated Practice Range Targets
- Practice Range Trail
- Practice Range
- Field Range Targets
- Relocated Field Range Targets
- Field Range Shoot Point
- Relocated Field Range Shoot Point
- Field Range Trail



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada



THE REGIONAL ARCHERY FACILITY

MASTER PLAN IMPLEMENTATION



IMPLEMENTATION

THIS MASTER PLAN PRESENTS TWO PATHWAYS FOR IMPLEMENTING THE IMPROVEMENTS OUTLINED IN THIS DOCUMENT.

Phasing Option #1 is based on the assumption that the proposed improvements are consistent with the use and recreational activities outlined in the 2012 Improvement Plan and BLM Lease. In this scenario, the improvement plan can be implemented without additional approval from the Bureau of Land Management or NEPA study.

Phasing Option #2 is based on the assumption that aspects of this improvement plan are not consistent with the 2012 Improvement Plan and will require NEPA study and revised R&PP lease agreement with the Bureau of Land Management.

The two implementation options are similar with the exception of the outdoor target archery course, Phase 3 in the Master Plan which has a later construction date in Phasing Option #2.

The two phasing options presented here illustrate the recommended order for individual master plan improvements. In most instances, the sequence of improvements is in order of importance as communicated by the stakeholder groups. Some improvements, such as the construction of a new parking area or structure, require longer funding cycles which are shown in the Phasing Option #1 & #2 timelines. Conversely, improvements which can be implemented over time such as enhancing the existing courses are shown with longer construction periods to illustrate the possibility that these could be an ongoing effort.

The scope of work associated for each improvement phase can be found in this section following the phasing timelines. Scopes of Work are general descriptions of the proposed improvement, the priority associated with that improvement, and a possible cost range for that improvement.

Infrastructure improvements discussed elsewhere in this document are not included in the scopes of work as they lie outside of the master plan boundary.

The Timeline Color Code indicates the type of work associated with the master plan improvements outlined in the phasing timeline and scope of work. The diagram to the right demonstrates how to interpret the phasing timelines. The length of each bar represents the period of time associated with that task.

PROJECT TIMELINE COLOR CODE

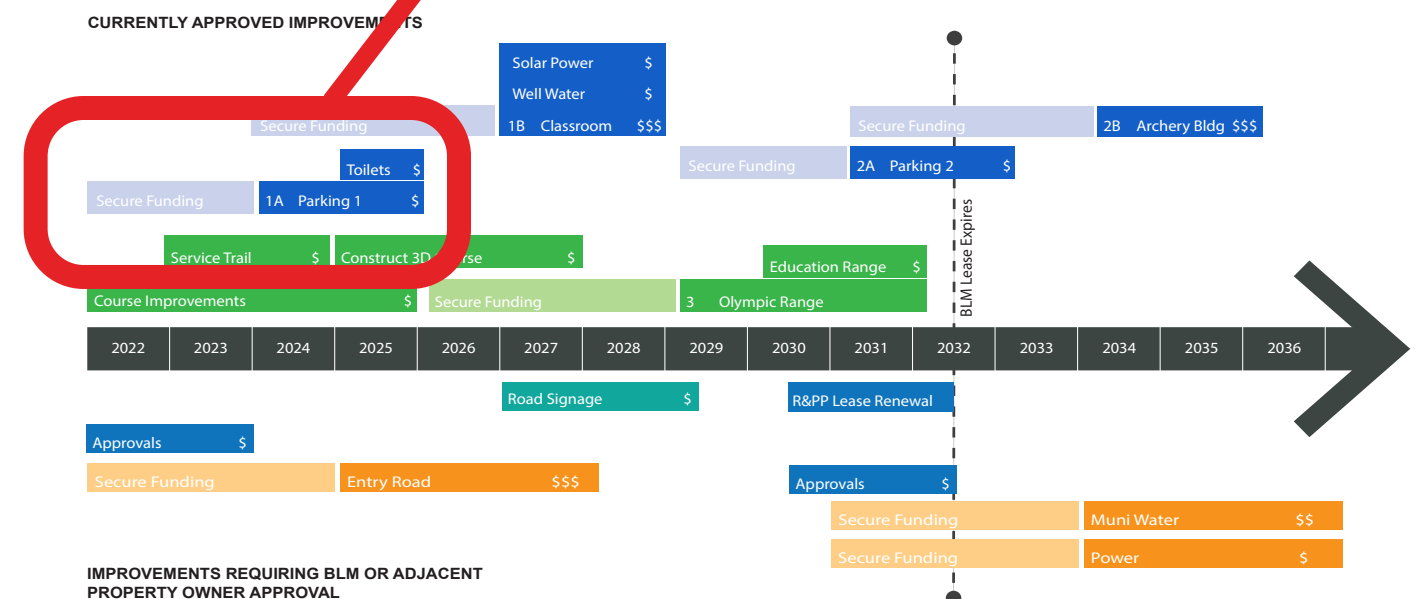
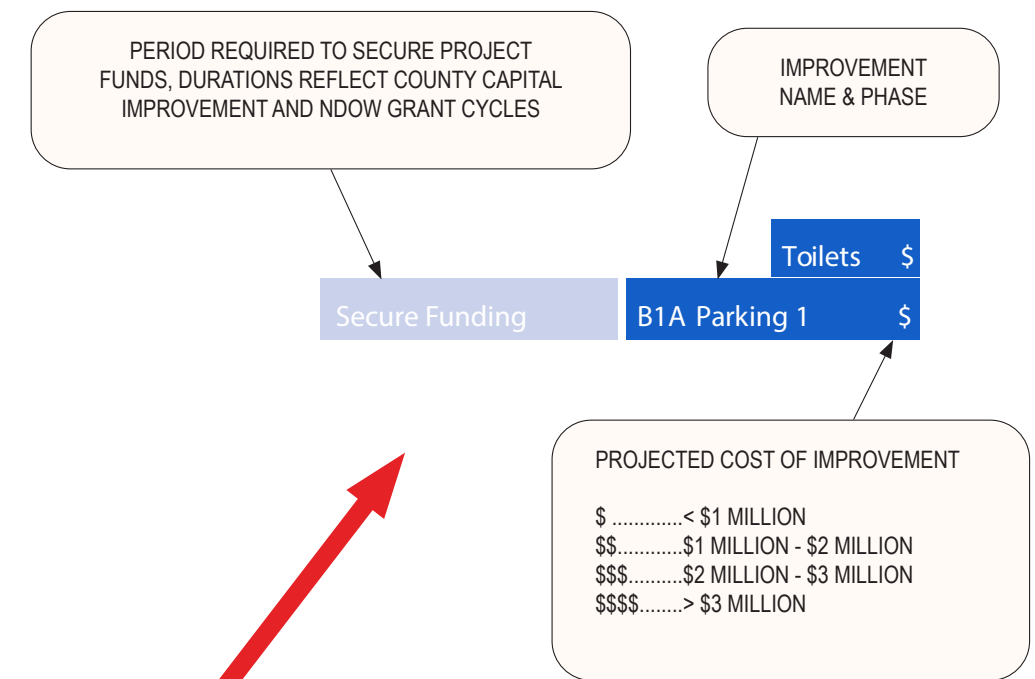
F = FIELDS IMPROVEMENTS SUCH AS TRAILS, SIGNAGE, SERVICE ROUTES

B = BUILT SUCH AS GRADING AND STRUCTURES

W = WAY FINDING SUCH AS HIGHWAY SIGNAGE AND ENTRY SIGNS

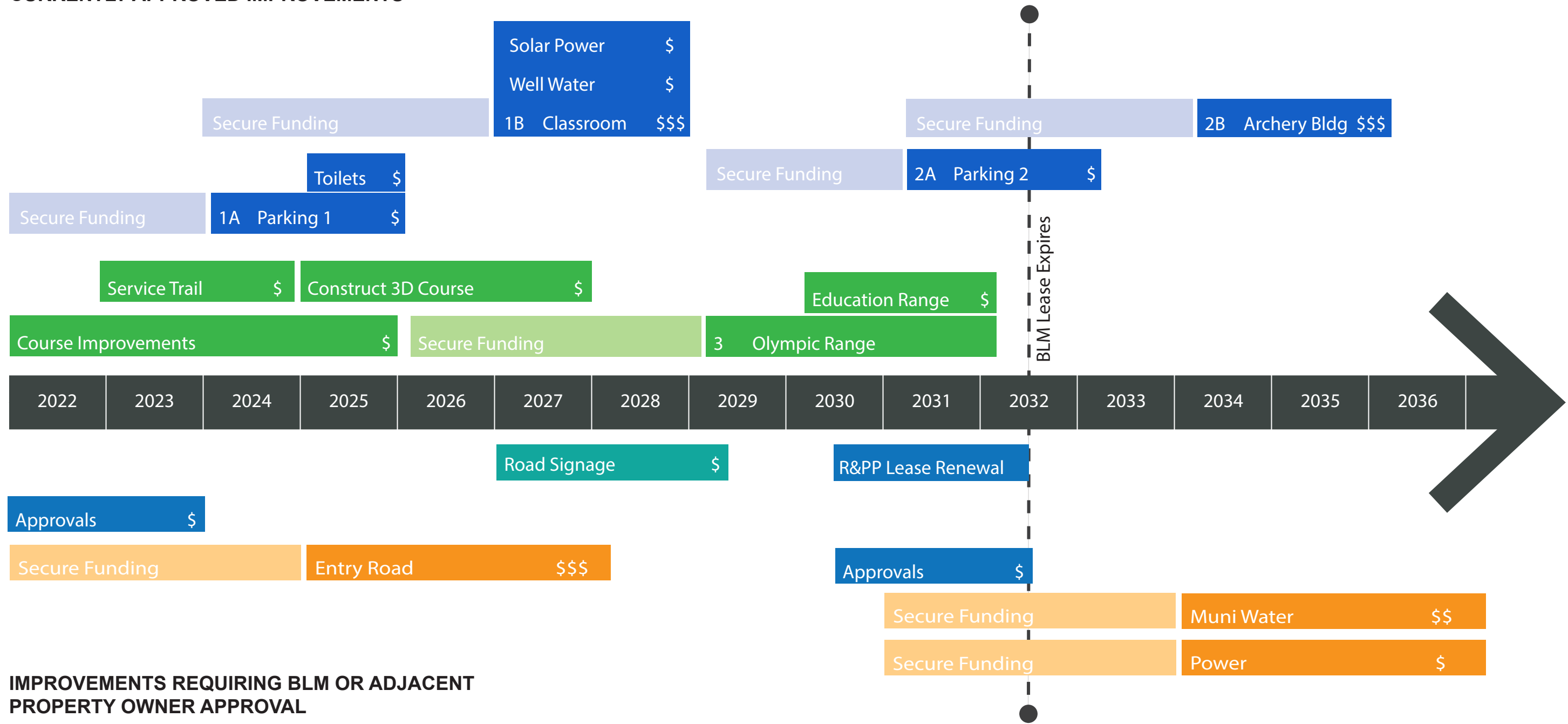
INF = INFRASTRUCTURE SUCH AS WATER LINES AND PAVED ROADS

PROJECT TIMELINE KEY



PHASING OPTION #1

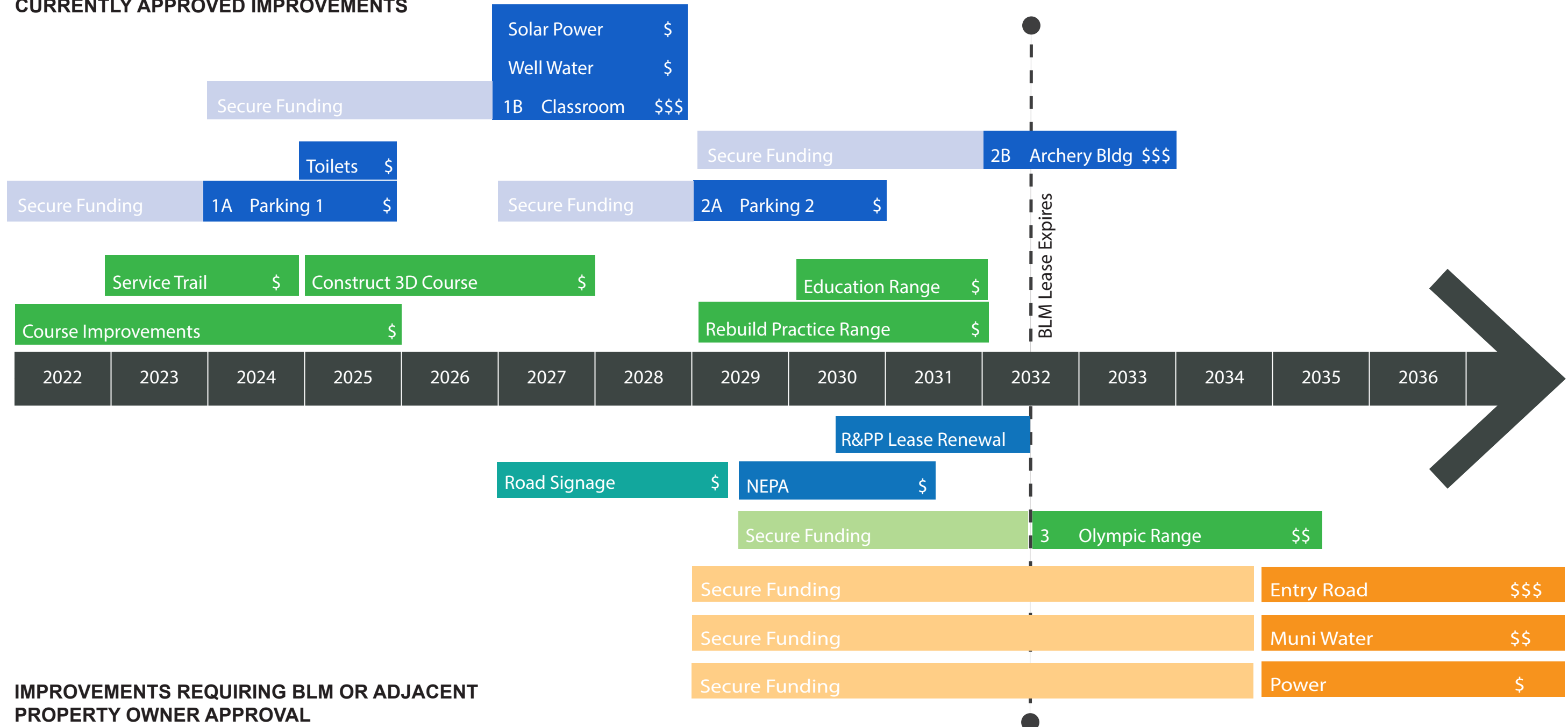
CURRENTLY APPROVED IMPROVEMENTS



IMPROVEMENTS REQUIRING BLM OR ADJACENT PROPERTY OWNER APPROVAL

PHASING OPTION #2












CURRENTLY APPROVED IMPROVEMENTS

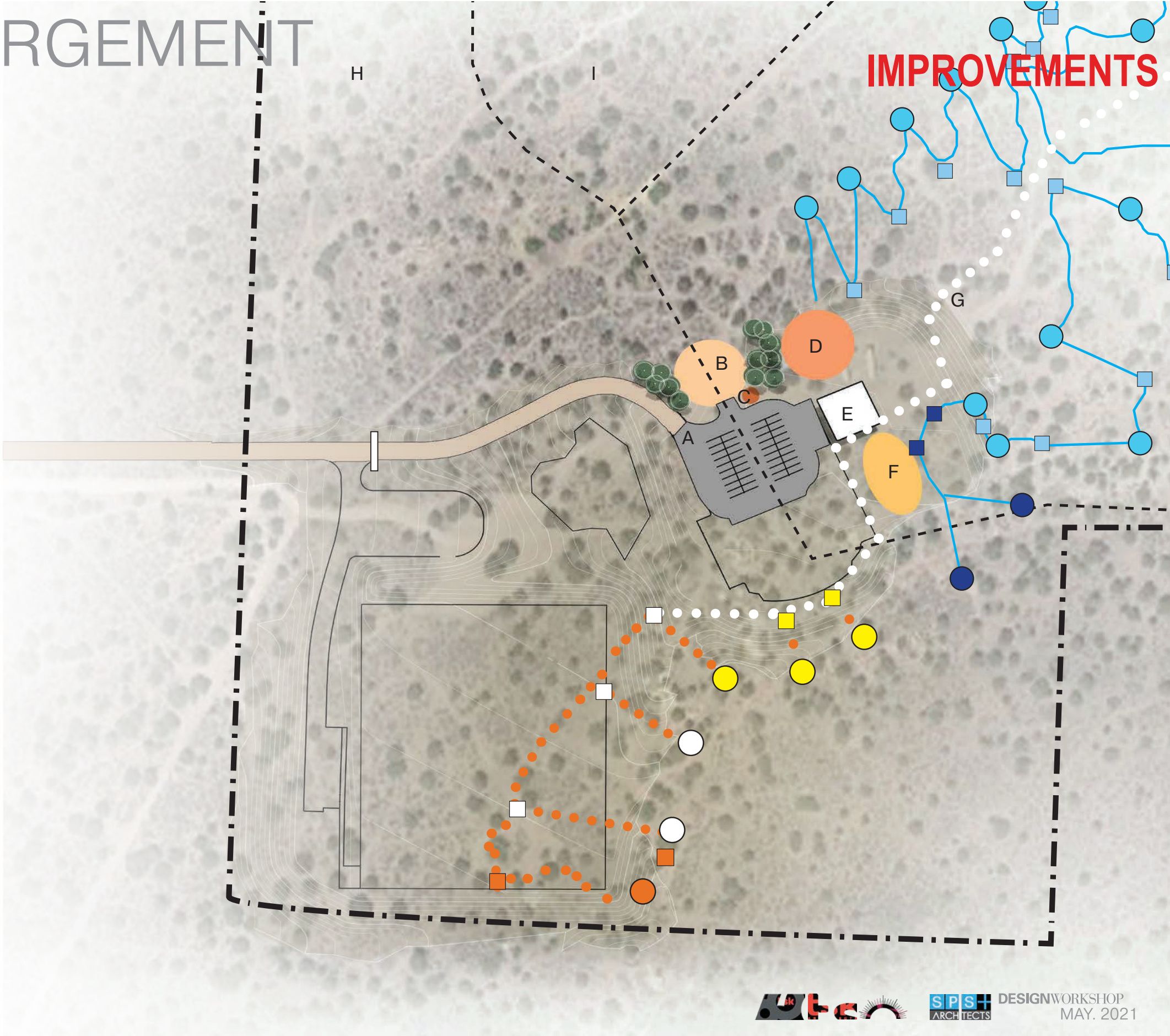


IMPROVEMENTS REQUIRING BLM OR ADJACENT PROPERTY OWNER APPROVAL

PHASE 1 ENLARGEMENT

- A: Parking for Indoor Classrooms (Phase 1A)
- B: Storage Area (Phase 1A)
- C: Pit Toilets (Phase 1A)
- D: Outdoor Event/Gathering Area (Phase 1B)
- E: Indoor Classrooms w/ Restrooms (Phase 1B)
- F: Outdoor Education Area (Phase 1B)
- G: Main Trail Access to BLM Land
- H: Expansion Area
- I: 3D Course Area

	Practice Range Shoot Point
	Relocated Practice Range Shoot Point
	Practice Range Targets
	Relocated Practice Range Targets
	Practice Range Trail
	Practice Range
	Field Range Targets
	Relocated Field Range Targets
	Field Range Shoot Point
	Relocated Field Range Shoot Point
	Field Range Trail



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada



ASTER PLAN

PHASE 1 SCOPE

IMPROVEMENTS

PHASE 1 PROJECTS

COURSE IMPROVEMENTS (PRIORITY 1) PROJECTED COST <\$1 MILLION
 General improvements to the field and practice (set distance) course including: wayfinding, erosion control and trail stabilization improvements, and shooting station amenities such as seating, bow stands, and ground surfacing. Efforts to maintain or restore habitat should be given priority.

SERVICE TRAIL CONSTRUCTION (PRIORITY 1) PROJECTED COST <\$1 MILLION
 Construct or improve access service trail for OHV access to targets. Mitigate trail erosion and stabilize erosive slopes.

CONSTRUCT 3D COURSE (PRIORITY 1) PROJECTED COST <\$1 MILLION

- Layout and Construct 3D Course with:
 - Set Shooting Stations with Multiple Target Points.
- Coordinated Layout with Service Trail Construction.
- Install Permanent Wayfinding and Walking Path Consistent with Field Course.
- Install Fixed Target Stand Bases.

PARKING PHASE 1 (PRIORITY 2) PROJECTED COST <\$1 MILLION

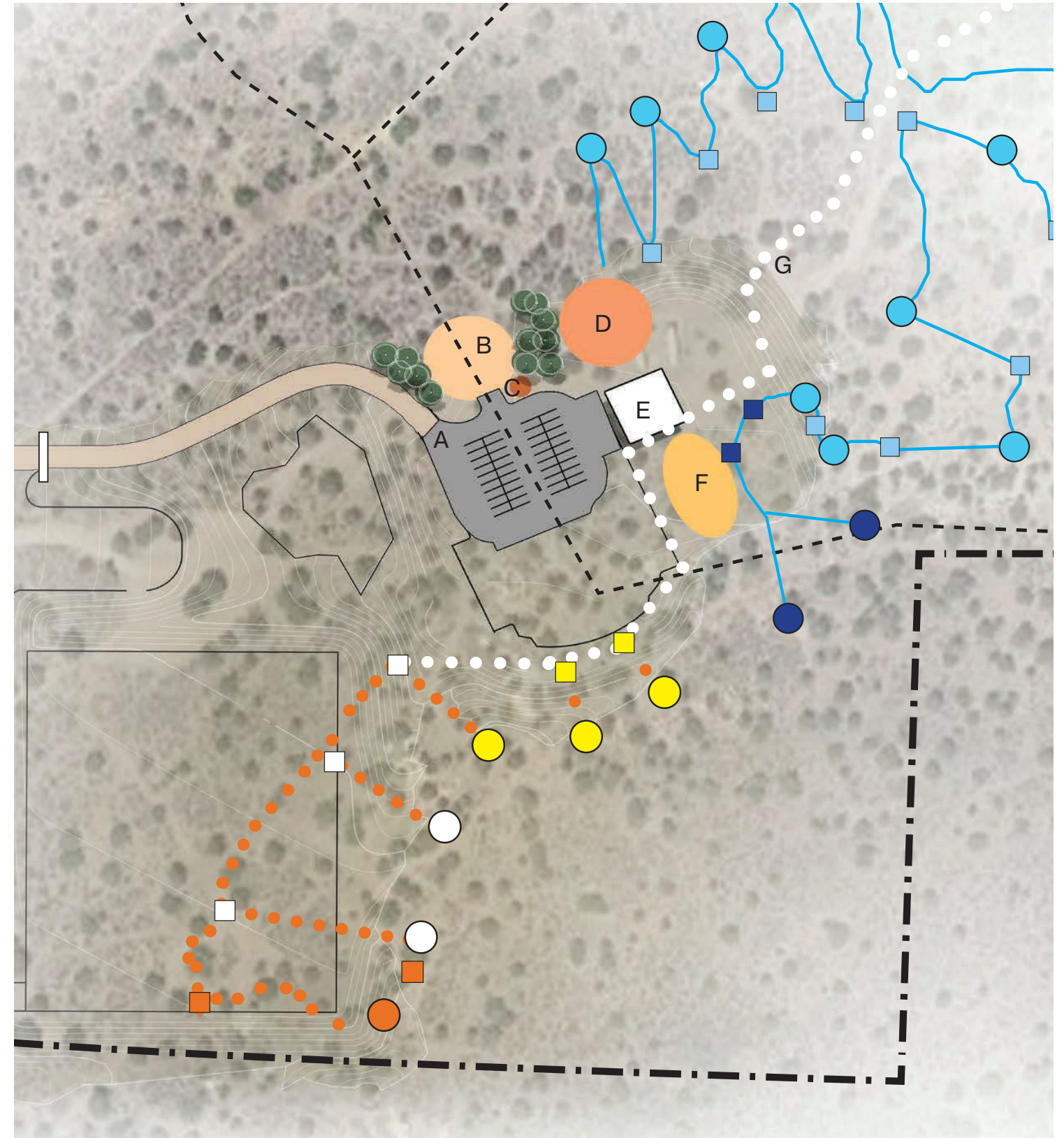
- Grade and construct ADA Accessible Parking Area (A),
- New Site Storage Yard and Screening (B),
- Install Two Unit ADA Compliant Pit Toilet per Washoe County Standards (C),
- Outdoor Group Area/Amphitheater (D),
- Relocate Impacted Targets of Field Archery Course.

EDUCATION BUILDING PHASE 1 (PRIORITY 2) PROJECTED COST \$2 MILLION - \$3 MILLION

- Construct 3,000 SF Education Classroom Building (E) including:
 - Well or Connection to Municipal Water,
 - Solar Array or Connection to NV Energy,
- Outdoor Archery Education Center (F).

NOTES:

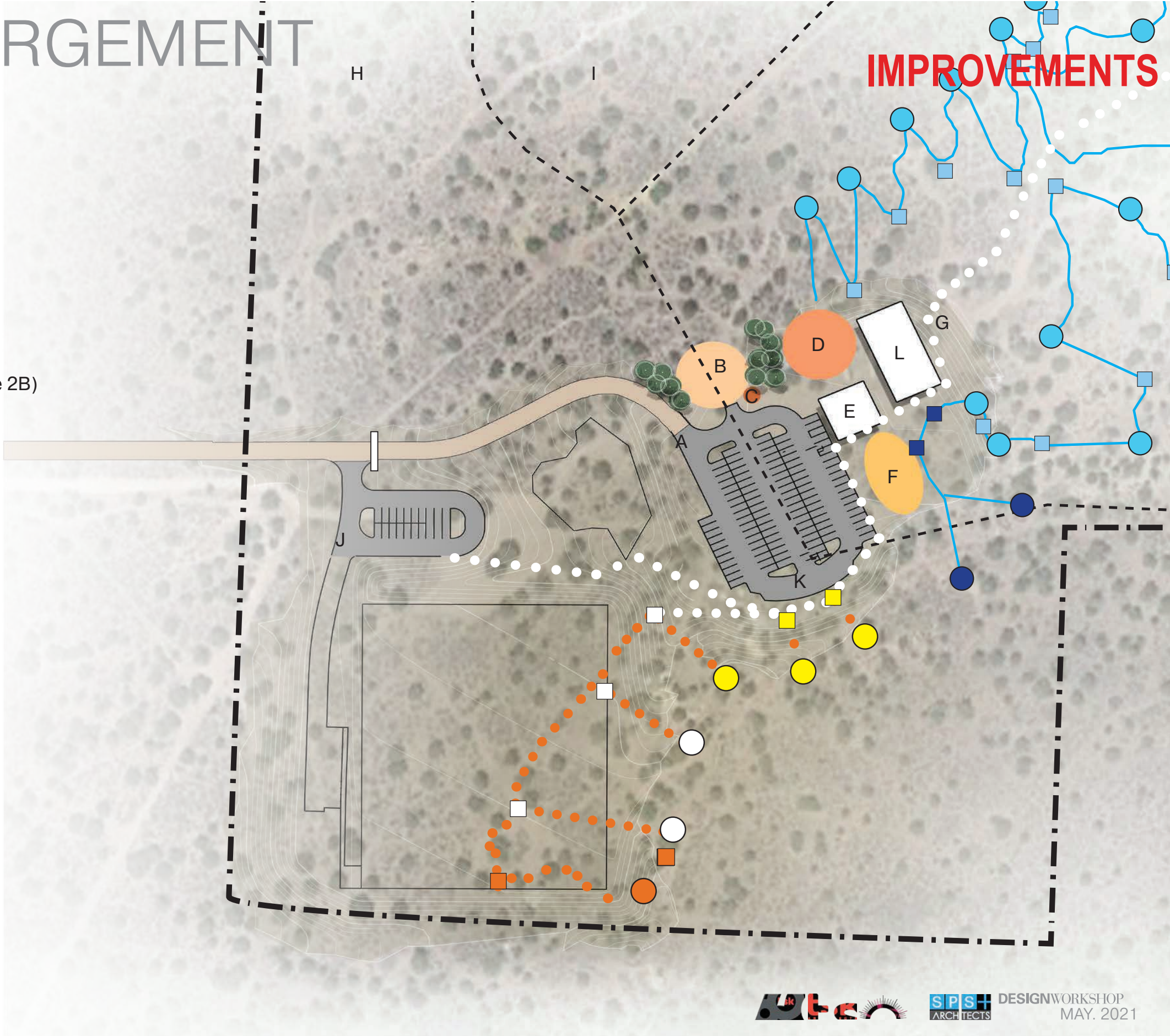
- 1) The construction of the Education Building Parking (A) will possibly impact the set distance target course shooting station locations. If so, the relocation and reconstruction of these stations may be considered part of this project phase.
- 2) The Education Classroom Building should be integrated into the outdoor classroom and gathering spaces and integrated into the overall archery education plan for the WCRAF.
- 3) Phase 1 Projects are all intended to meet ADA accessibility design guidelines and further the goal of making the sport more accessible to all archers.



PHASE 2 ENLARGEMENT

- A: Parking for Indoor Classrooms (Phase 1A)
- B: Storage Area (Phase 1A)
- C: Pit Toilets (Phase 1A)
- D: Outdoor Event/Gathering Area (Phase 1B)
- E: Indoor Classrooms w/ Restrooms (Phase 1B)
- F: Outdoor Education Area (Phase 1B)
- G: Main Trail Access to BLM Land
- H: Expansion Area
- I: 3D Course Area
- J: Trailhead Parking (Phase 2A)
- K: Expanded Parking (Phase 2A)
- L: Indoor Archery w/Storage and Restrooms (Phase 2B)

	Practice Range Shoot Point
	Relocated Practice Range Shoot Point
	Practice Range Targets
	Relocated Practice Range Targets
	Practice Range Trail
	Practice Range
	Field Range Targets
	Relocated Field Range Targets
	Field Range Shoot Point
	Relocated Field Range Shoot Point
	Field Range Trail



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada

PHASE 2 SCOPE

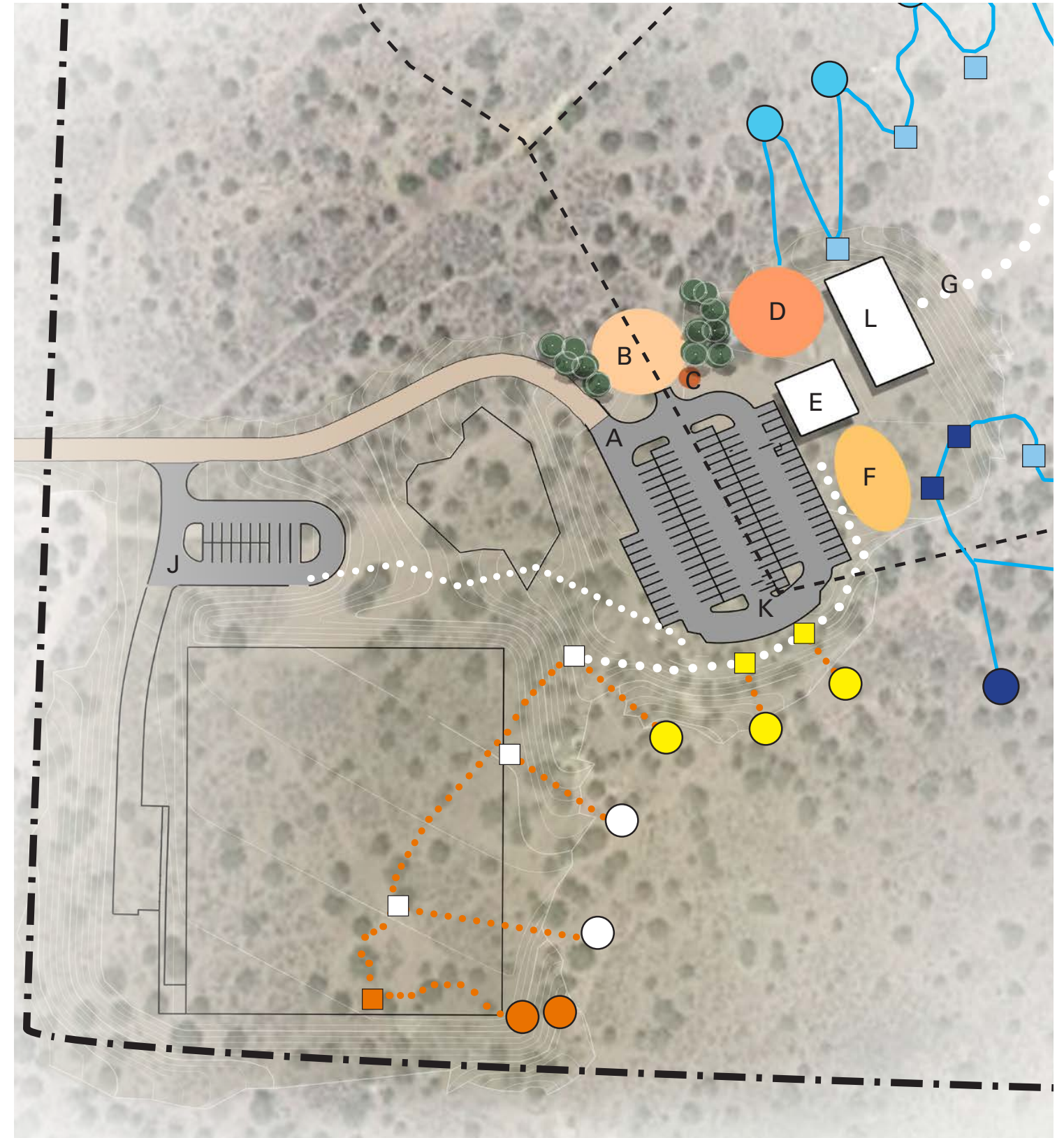
IMPROVEMENTS

PHASE 2 PROJECTS

<p>PARKING PHASE 2 (PRIORITY 2)</p> <ul style="list-style-type: none"> Grade and Construct Lower (Trailhead) Parking (J). Grade and Construct Expanded Parking Area Adjacent to Education Building (K). Construct 6,000 SF Indoor Archery Building (L) including: <ul style="list-style-type: none"> Indoor Toilets Expansion of Solar Array if Facility is Off-Grid 	<p>PROJECTED COST <\$1 MILLION</p>
<p>EDUCATION BUILDING PHASE 2 (PRIORITY 2)</p> <ul style="list-style-type: none"> Construct 6,000 SF Indoor Archery Range Building (L) including: <ul style="list-style-type: none"> Expansion of Solar Array if Off-Grid Power Additional Restrooms 	<p>PROJECTED COST \$2 MILLION - \$3 MILLION</p>
<p>EDUCATION RANGE (PRIORITY 2)</p> <p>Layout and Construct Archery Education Range</p>	<p>PROJECTED COST <\$1 MILLION</p>







NOTES:

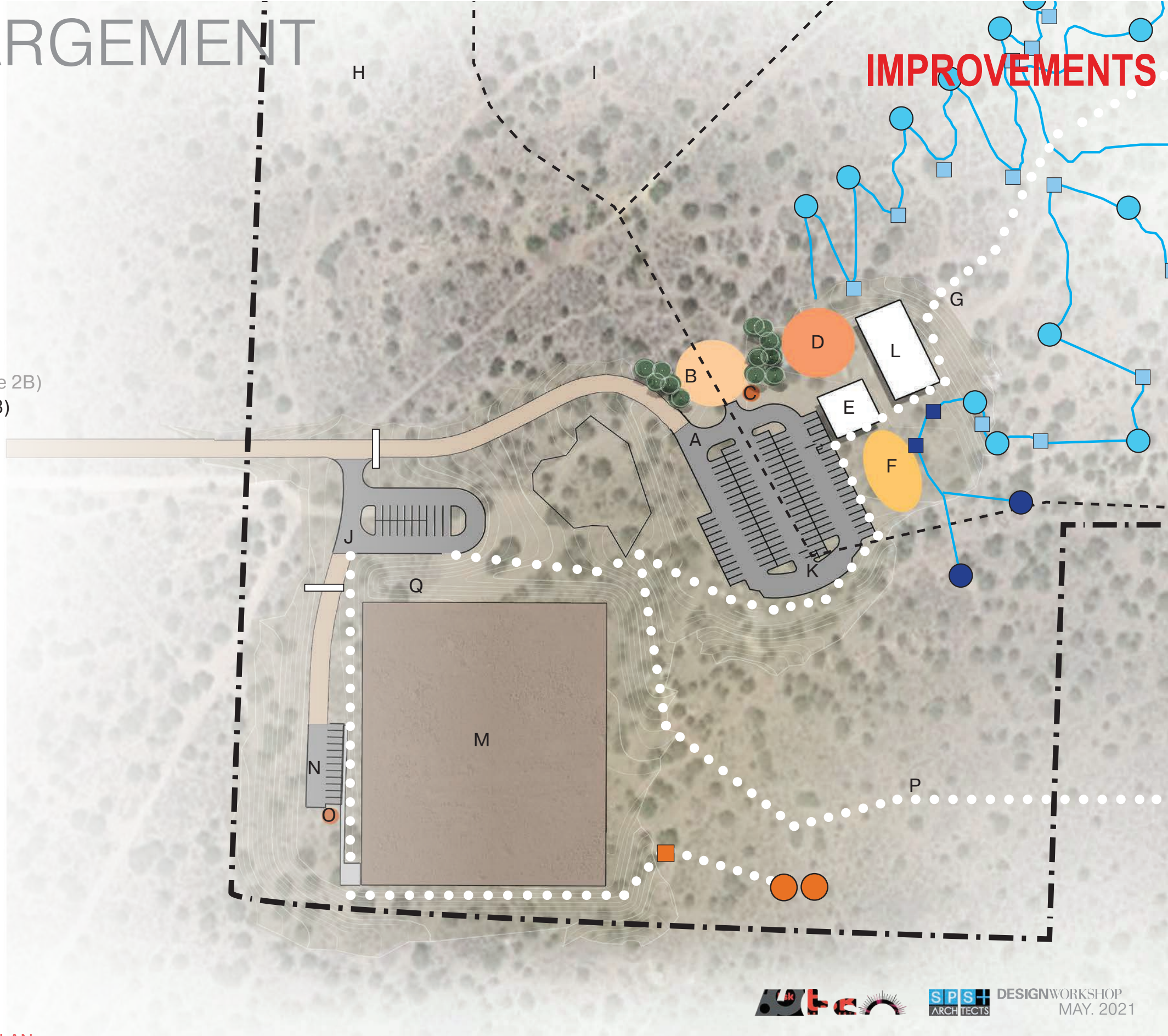
- 1) The expansion of the Education Building Parking (K) will impact the set distance target course shooting station locations. The relocation and reconstruction of these stations should be considered part of this project phase and an opportunity to provide accessibility to portions of the facility.
- 2) The Indoor Archery Range Building (L) is intended to provide year the opportunity for year round archery training and activities. The facility should be integrated into the overall archery education plan for the WCRAF.
- 3) Phase 2 Projects are all intended to meet ADA accessibility design guidelines and further the goal of making the sport more accessible to all archers.



PHASE 3 ENLARGEMENT

- A: Parking for Indoor Classrooms (Phase 1A)
- B: Storage Area (Phase 1A)
- C: Pit Toilets (Phase 1A)
- D: Outdoor Event/Gathering Area (Phase 1B)
- E: Indoor Classrooms w/ Restrooms (Phase 1B)
- F: Outdoor Education Area (Phase 1B)
- G: Main Trail Access to BLM Land
- H: Expansion Area
- I: 3D Course Area
- J: Trailhead Parking (Phase 2A)
- K: Expanded Parking (Phase 2A)
- L: Indoor Archery w/Storage and Restrooms (Phase 2B)
- M: Outdoor Archery & Practice Target Area (phase 3)
- N: Archery Parking (Phase 3)
- O: Pit Toilets (Phase 3)
- P: Trail Access to BLM Land (Phase 3)
- Q: Berm (Phase 3)

	Practice Range Shoot Point
	Relocated Practice Range Shoot Point
	Practice Range Targets
	Relocated Practice Range Targets
	Practice Range Trail
	Practice Range
	Field Range Targets
	Relocated Field Range Targets
	Field Range Shoot Point
	Relocated Field Range Shoot Point
	Field Range Trail



WASHOE COUNTY ARCHERY SITE PLAN
Lemmon Valley, Nevada



ASTER PLAN

PHASE 3 SCOPE

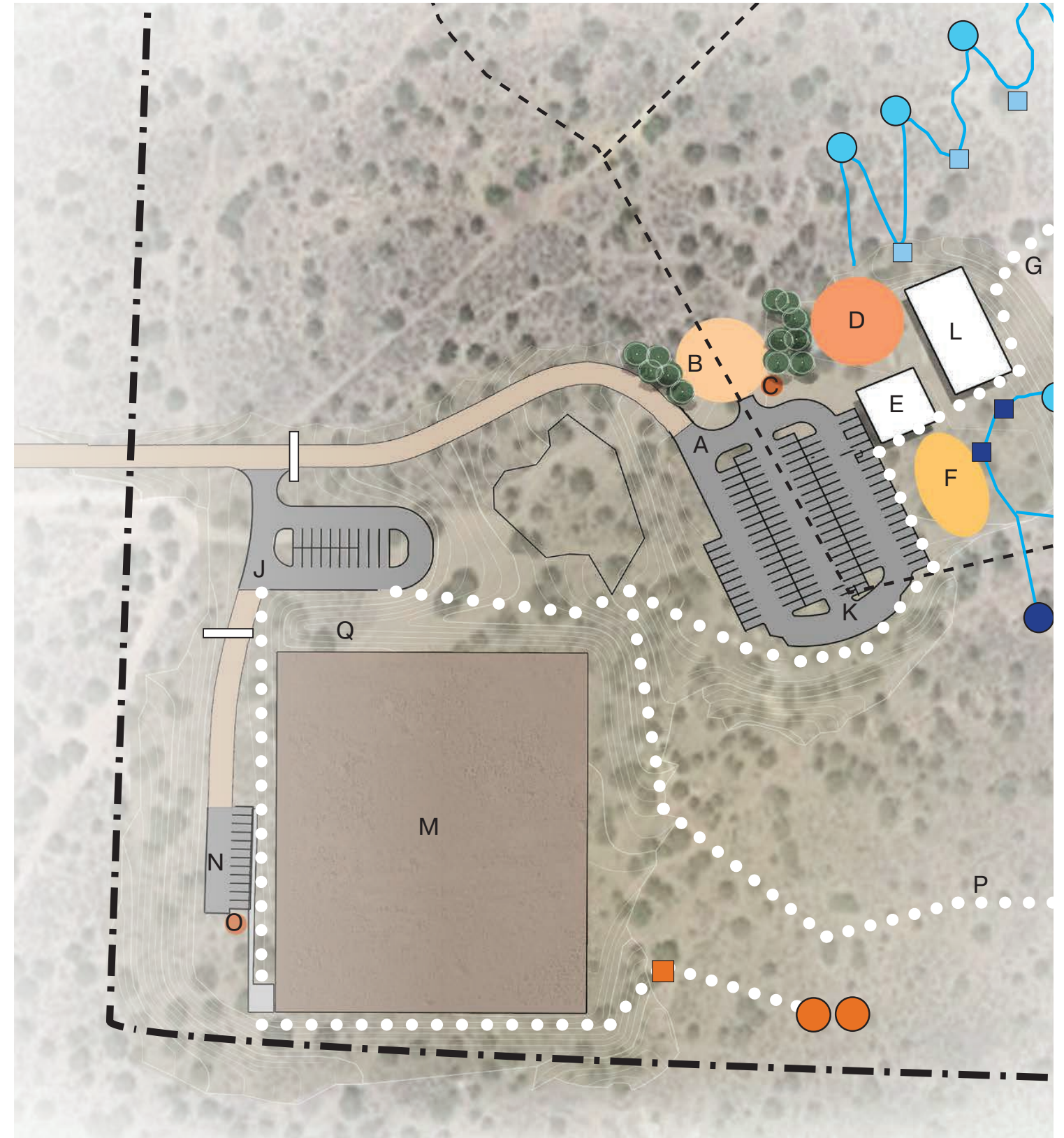
IMPROVEMENTS

PHASE 3 PROJECTS

<p>OUTDOOR TARGET ARCHERY COURSE (PRIORITY 3) Grade and Construct outdoor flat field target archery course (M). • Includes all berming necessary for safety and design standards. • Reconstruct Broadhead Arrow shooting target and pit.</p>	<p>PROJECTED COST <\$1 MILLION</p>
<p>PARKING PHASE 3 (PRIORITY 3) • Grade and Construct ADA Accessible Parking (N) to support Target Archery Course.</p>	<p>PROJECTED COST <\$1 MILLION</p>
<p>ACCESSIBLE TOILET (PRIORITY 2) • Grade and Install ADA Accessible Pit Toilet Adjacent to Target Archery Course.</p>	<p>PROJECTED COST <\$1 MILLION</p>

NOTES:

- 1) The location shown for the Outdoor Target Archery Course (M) is illustrative and intended to show the approximate location of the facility for the purposes of this master plan. The determination of the final location will be dependant upon site engineering to ensure that all soil disturbances remain within the boundary of the Washoe County Regional Archery Facility.
- 2) The construction of the Outdoor Target Archery Course (M) impact the existing set distance course targets and shooting stations. It is the intention of this phase to replace the set distance course with the flat target course. This will allow for greater numbers of practice target shooters to participate at any given time. It is recommended that the status of the set distance course be revisited when the flat target course is designed to determine if a new location for the set distance course is desired rather than being incorporated into the flat field course.
- 3) The Outdoor Target Archery Course (M) is intended to serve both Olympic and Paralympic Archery and must meet ADA accessibility standards. Providing access to this facility for all archers is a key strategy in the growth of the Washoe County Regional Archery Facility.



THE REGIONAL ARCHERY FACILITY

EXAMPLES



EXAMPLES



Usery Mountain Archery Park, AZ - An example of how trail management can be handled while maintaining natural qualities.



Usery Mountain Archery Park, AZ - Field targets are integrated into the landscape while maintaining trails to minimize degradation of the landscape.



Usery Mountain Archery Park, AZ - Trails require regular maintenance.



Weber County Archery Park, UT - An example of the interface between a structured path and wilder shooting setting.



Mahove Desert Preserve, CA - An example of best practices in desert and arid lands trails.

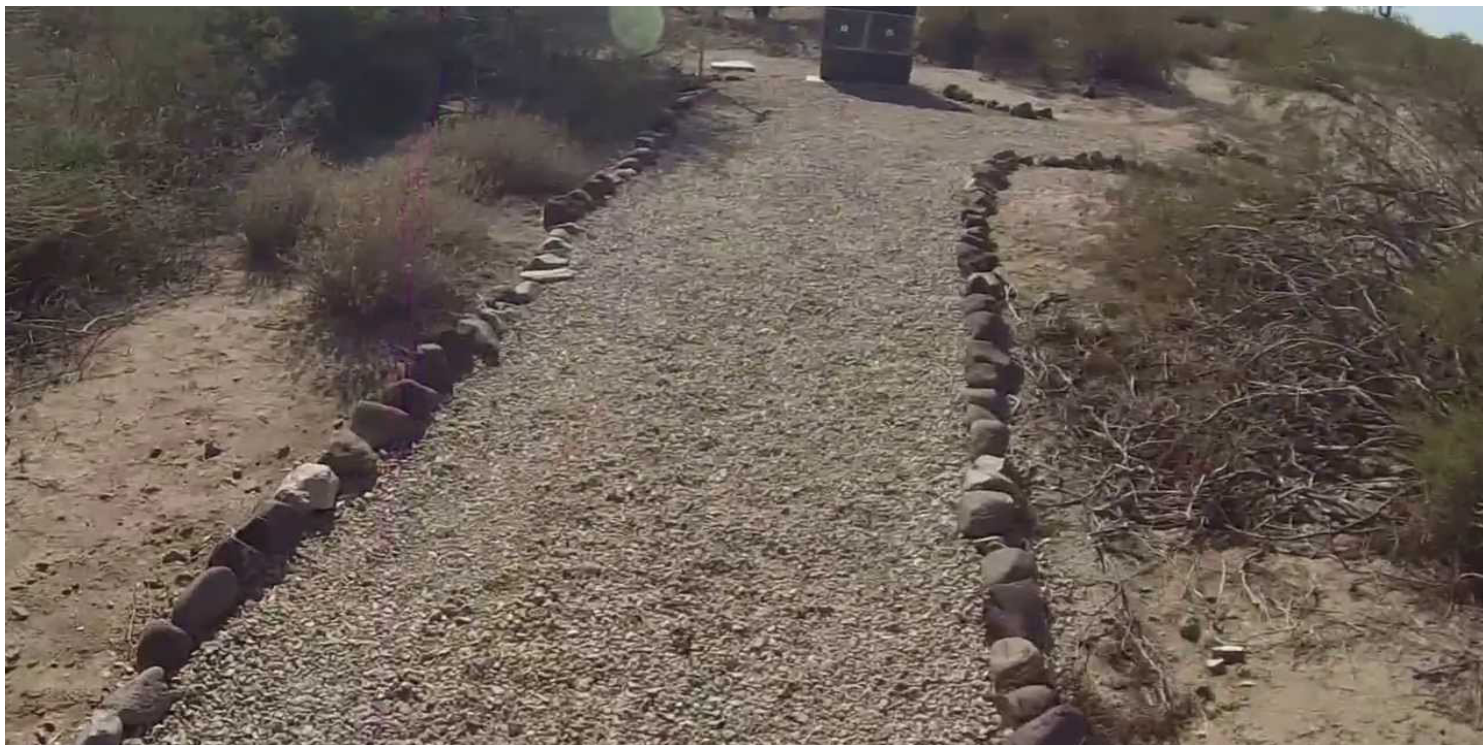
EXAMPLES



An example of how to use native rock and terrain to define trails.



Bear Creek Regional Park, CO - Field archery course trail



An example of how to use native rock to define trails.



Bear Creek Regional Park, CO - Target archery range.

EXAMPLES



Regional Park, CO - Example of facilities.



Regional Park, CO - Example of facilities.



Wilson Archery Range - Example of facilities.



Tualatin Hills - Example of facilities.



Regional Park, CO - Example of facilities.

WASHOE COUNTY REGIONAL ARCHERY FACILITY MASTER PLAN

