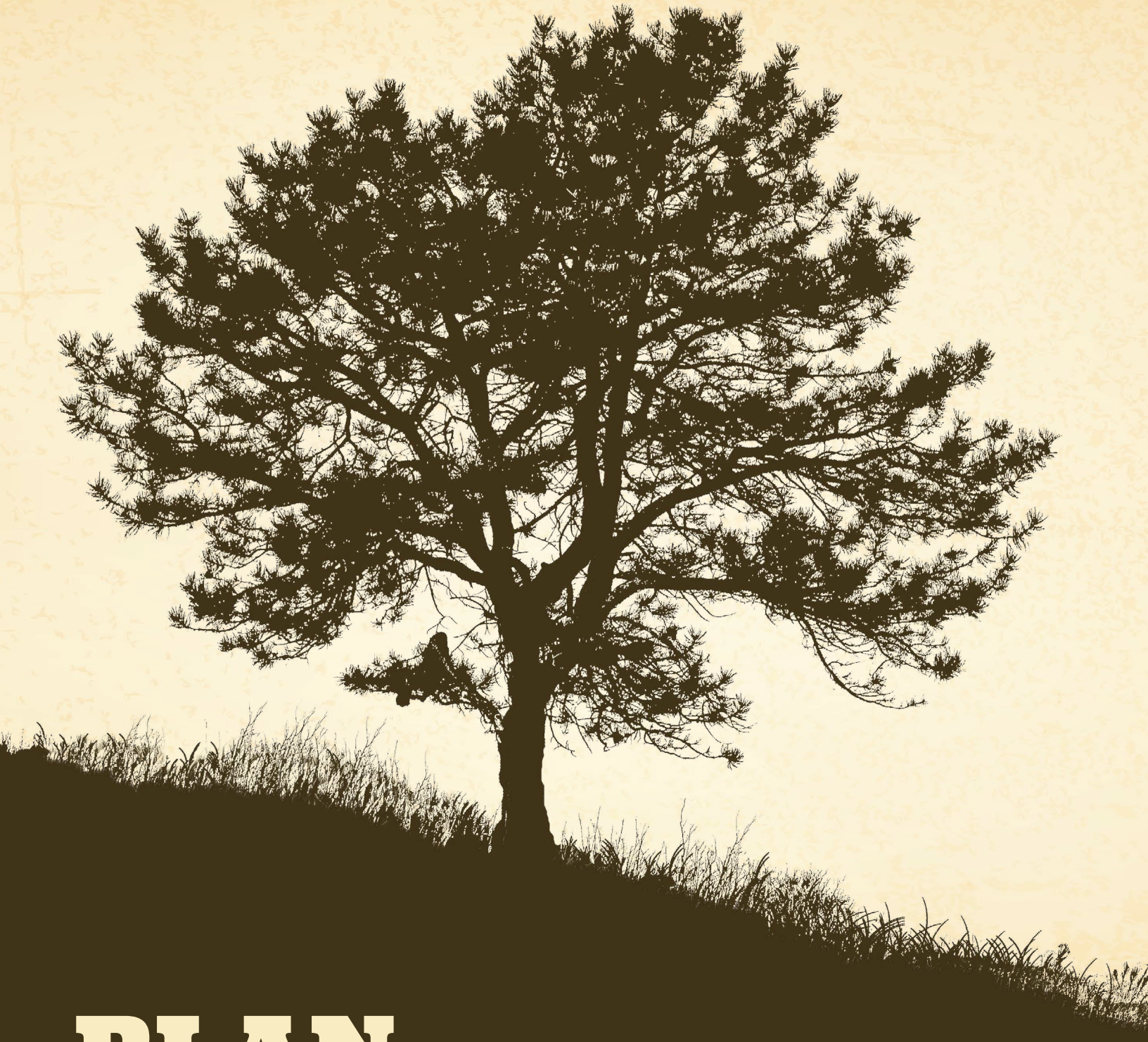
Version 3

City of Boulder Open Space and Mountain Parks

# North Trail Study Area Plan



# PLAN

June 2016

# Thank you to our community

Open Space and Mountain Parks would like to give our sincere appreciation and thanks to the many community members who contributed their time and efforts in the development and completion of the North Trail Study Area Plan.

# Acknowledgements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*Background photo: Wonderland Lake. Unless otherwise noted, all photos are courtesy of OSMP.*

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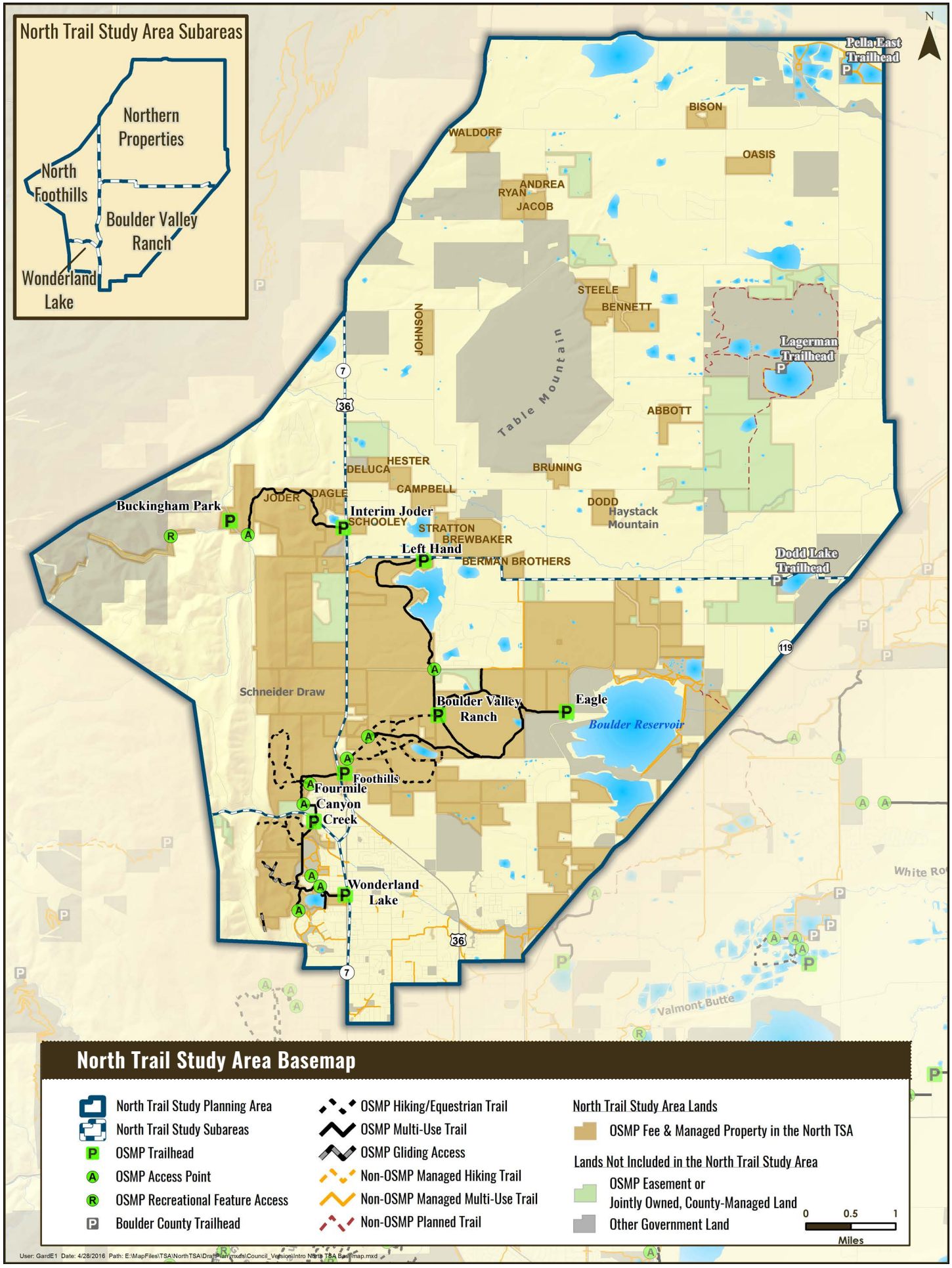
*Fossil of a smooth oyster shell, found in a marine sedimentary rock layer in the North TSA. © Gary Stevens*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# Purpose and Goals

*A community-driven plan for the city's northern open space system*

## Purpose

The overall purpose of the North Trail Study Area (TSA) Plan is to provide management direction, and describe strategies and actions that will improve visitor experiences and increase the physical and environmental sustainability of trails, trailheads and visitor infrastructure in the North TSA while conserving natural, cultural and agricultural resources. The North TSA Plan will articulate the community's long-term vision and identify on-the-ground management actions directed at achieving that vision.

*A view of OSMP public land from the Hogback Ridge Trail.*

## Description of the North Trail Study Area

The North TSA has diverse landscapes, including ponderosa pine topped hogback ridges, open grasslands, springs, creeks and small lakes. In many places, farming and ranching activities overlay these features. The TSA also includes cultural resources that tell the stories of Boulder's early inhabitants and settlers as well as its mining and agricultural past.

The rise of the Southern Rocky Mountain's foothills from the flatlands of the Central Great Plains is a continental scale environmental transition that sets the stage for high biological diversity and allows for a variety of recreational opportunities. The North TSA contains some popular and frequently visited areas such as Wonderland Lake, the Foothills Trail corridor, Boulder Valley Ranch and some more remote and less-frequented locations such as the Lefthand and Hogback Ridge trails.

The North TSA receives approximately one-fifth of the visitation to OSMP. It shares boundaries with city and county neighborhoods and is a recreation destination for many people who live nearby as well those traveling from elsewhere in the city, county and beyond.

### North Trail Study Area Plan Goal

*The North Trail Study Area Plan seeks to improve visitor experiences and increase the sustainability of trails and trailheads while conserving the area's natural, cultural and agricultural resources.*

*The Interim Joder Trail north of Boulder.*

# The North Trail Study Area (TSA) Planning Process

*OSMP held nine public meetings to solicit feedback on the North TSA Plan.*

The process for developing the North TSA Plan had four phases. The first phase was focused on collecting and compiling information about the TSA. The primary deliverable for the first phase was the North TSA Inventory and Assessment Report. The information in this report helped guide the development of plan scenarios.

The second phase identified the interests in the North TSA and its future management, as well as any specific issues that needed to be addressed in the plan. This phase resulted in a list of 10 interests and a set of desired actions that further informed the development of plan scenarios.

During the third phase, based on community and Open Space Board of Trustees (OSBT) feedback, OSMP staff developed scenarios designed to achieve planning objectives and community interests. Community and board assessment of and feedback on scenarios resulted in revisions to the scenarios. The OSBT selected which scenario should be used as a basis for the draft plan. In fairness to the process, it should be acknowledged that three OSBT members voted for the scenario while two voted against it. The main point of contention was whether a north-south connector trail should be constructed through the North Foothills HCA.

The fourth and final phase included the review of the draft plan by the community, the OSBT and recommendation and acceptance of the plan by the Boulder City Council.

## Phase 1 | Inventory and Assessment

**Purpose:** Share knowledge about recreational, natural, cultural and agricultural resources. This phase led to the Inventory and Assessment Report.

**Key Inputs:**

- Community knowledge of visitor experiences, resources, what is functioning well in the North TSA and what needs improvement.
- Staff-prepared information on recreational, natural, cultural and agricultural resources.

## Phase 2 | Interests and Issues

**Purpose:** Share knowledge about desired outcomes and topics that will guide the development and assessment of alternative scenarios and recommendations for the draft plan. This phase led to a North TSA interests and issues report documenting desired actions in scenario development.

**Key Inputs:**

- Community interests about desired plan outcomes and why the outcomes are wanted.
- Discussion of issues that could pose a challenge in the North TSA.
- Community dialogue about what can be implemented in the North TSA and why.

## Phase 3 | Draft Plan Development

**Purpose:** Assess alternative scenarios and integrate recommendations into a draft plan.

**Key Inputs:**

- Draft alternative scenarios developed by staff to achieve and balance identified interests and objectives.
- Community and OSBT feedback on draft scenarios to inform refined scenarios and recommendations.

## Phase 4 | Plan Acceptance

**Purpose:** Review draft plan and approve final plan.

**Key Inputs:**

- Community review.
- OSBT review, approval and recommendations to City Council.
- City Council review and acceptance.

*OSMP held two workshops to learn about community interests for the North TSA. The department also held two workshops to learn about current conditions in the area.*

## Community Participation in the North TSA Planning Process

Since the City of Boulder kicked off the public process for the North TSA Plan in April of 2015, Open Space and Mountain Parks and the Open Space Board of Trustees have:

- Invited the public to two workshops to learn what the community knows about and considers to be important resources in the North TSA and to solicit feedback on plan sideboards.
- Conducted two public meetings to learn about the community interests in the North TSA.
- Hosted two informational panels where experts informed the community about visitor and natural resource management strategies that have been implemented in other areas.
- Held two workshops to unveil and refine preliminary plan scenarios.
- Hosted a workshop to unveil and continue to revise refined plan scenarios.
- Provided community members an opportunity to offer online comment about plan sideboards, their interests for the North TSA and feedback on the preliminary and refined scenarios.
- Coordinated with Growing Up Boulder to include Boulder-area youth in North TSA planning.
- Solicited community feedback at local businesses, at OSMP trails and at trailheads.
- Reached out to the Latino community to provide information and seek input about the plan.

**9**

**Community workshops held to solicit public input on the plan.**

**965**

**Comments received from community members through Inspire Boulder, email and social media posts.**

**73**

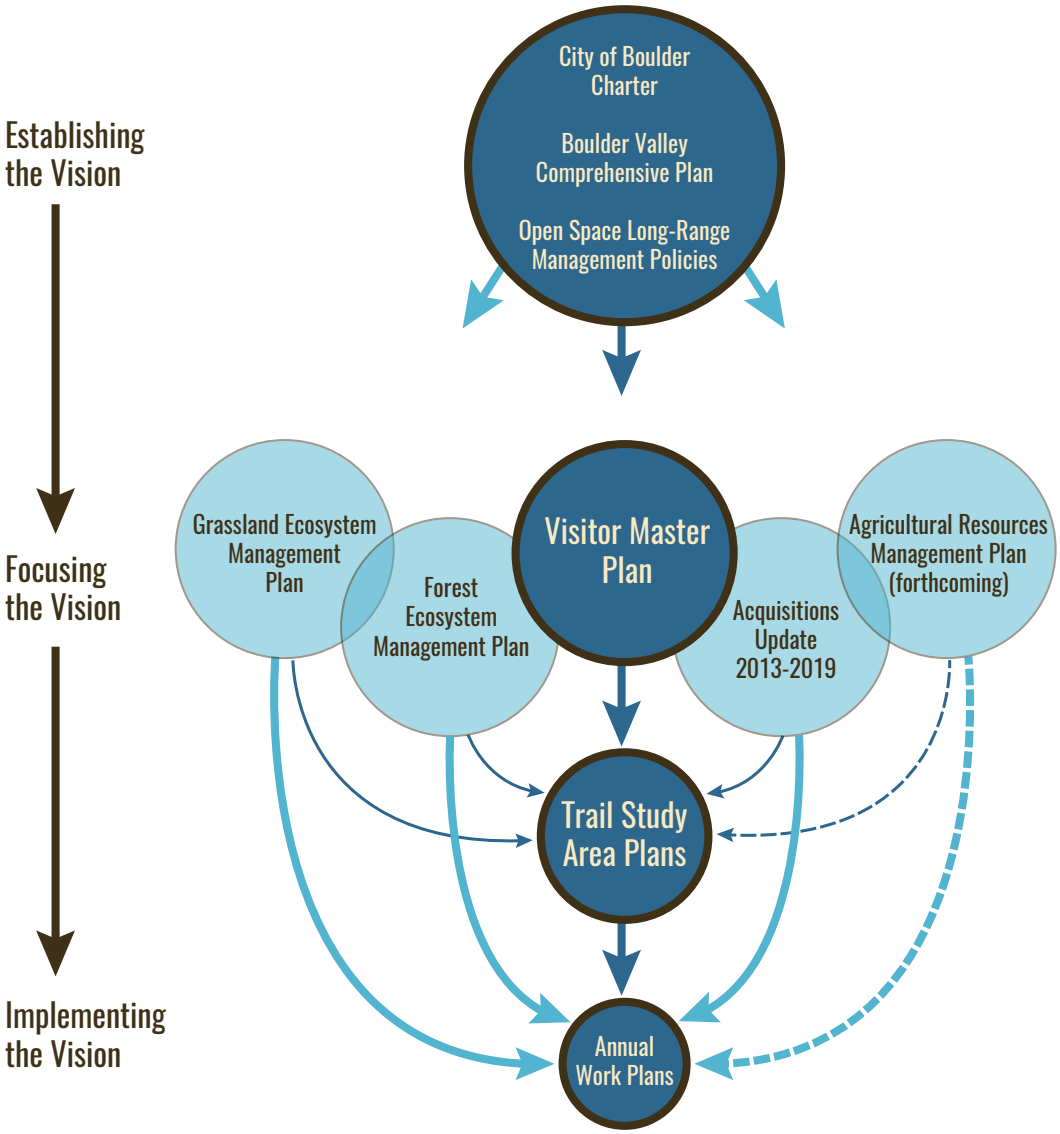
**Boulder area youths participated in North TSA youth engagement efforts.**

# Existing Planning and Policy Guidance

The North TSA Plan is affected and influenced by other OSMP departmental master, area, resource and program management plans. Other shared community visions that must be considered and, as appropriate, integrated into recommendations in the North TSA Plan include City of Boulder master plans and the Boulder Valley Comprehensive Plan.

OSMP staff has been consulting with partner agencies and relevant plans affecting the North TSA to determine how to best integrate and coordinate management objectives. The OSMP Visitor Master Plan (VMP) developed a framework to deliver visitor services and manage visitor facilities in a manner consistent with the conservation of natural, cultural and agricultural resources.

TSA plans provide a means for area-specific implementation of the strategies and policies contained in the VMP. TSA plans also integrate the goals and objectives relevant to visitor access and infrastructure management from OSMP resource plans. These include the Grassland Ecosystem Management Plan, Forest Ecosystem Management Plan and the forthcoming Agricultural Resource Management Plan.



# Existing Conditions in the North TSA

*The North TSA is home to diverse recreational, natural, agricultural and cultural resources*

## Recreation Resources

Recreational opportunities occur throughout the North TSA and include a wide range of activities—such as hiking, bike riding, running, horseback riding, dog walking, hang gliding/paragliding, fishing, picnicking and nature study. Most visitors to OSMP, and likely to the North TSA, report a high quality of experience and enjoy the natural setting for passive recreation.

A goal for the North TSA Plan is to maintain the factors that are currently contributing to a high quality visitor experience and take additional actions to improve the quality of visitors' experiences. The OSMP VMP established an area-based framework for implementing management strategies, policies and priorities for visitor infrastructure improvements and service delivery.

## Trails and Entry Points

The North TSA contains a 19-mile designated trail system that provides opportunities for visitor activities and connectivity to the Wonderland Lake, North Foothills and Boulder Valley Ranch areas. Several of the designated trails have stretches where the trail location or design can be improved to increase the physical sustainability and reduce impacts on ecological resources. There are also approximately 35 miles of undesignated trails which may not be physically or environmentally sustainable. Some undesignated trails provide access to destinations not served by designated trails, while others parallel designated trails or provide an alternate route to a destination already served by a designated trail.

*The Foothills Trail near Wonderland Lake.*

A focus for the North TSA Plan will be making the existing trail system more sustainable and reducing the network of undesignated trails, thereby lessening resource impacts. The VMP identified several specific improvements in what is now the North TSA, including trail and trailhead improvements, priority new trail connections and critical road crossings. These improvements were evaluated in the North TSA to improve visitor experience, infrastructure sustainability, safety and resource protection.

A trail or visitor facility is considered sustainable when principles of ecology and economics have been incorporated into the design in an effort to achieve ecological and biological integrity, a quality visitor experience and persistent performance with a minimum of maintenance and upkeep.

**8** *Trailheads*

**19+** *Miles of designated trails*

**35+** *Miles of undesignated trails*

*Bell's twinpod, a rare native plant species, growing in a shale outcropping.*
*© Bill May*

## Natural Resources

Many of the ecosystems west of U.S. Highway 36 in the North TSA are generally healthy and function naturally. Areas to the east of U.S. 36 have historically been altered to a greater degree for agricultural production, but still contain important wildlife habitat and native plant populations. The North TSA provides habitat and refuge to several sensitive species such as Bell's twinpod, bobolink, Northern Harrier, ottoe skipper, arogos skipper and the prairie rattlesnake.

Some of these rare or uncommon species can be threatened by visitor activities. A focus of the North TSA Plan is to maintain or increase the level of natural resource protection and restoration so OSMP can continue to achieve the community's natural resource conservation goals. The Grassland Ecosystem Management Plan and the Forest Ecosystem Management Plan provide information on natural resource conservation priorities and objectives that have been considered in the development of the North TSA Plan.

## Agricultural Resources

Historically, agricultural lands in the North TSA have included beef production, dairy farms, sheep ranching, along with poultry operations, horse boarding, dry land grain production, irrigated forage, irrigated grain harvesting and vegetable production. Today, typical agriculture in the TSA includes cattle grazing and hay production. In response to growing community interest in local foods production, there is now a diversified organic farm in the TSA as well.

OSMP leases properties to local farmers and ranchers who run agricultural operations. In the North TSA, more than 3,000 acres of land are part of OSMP agricultural leases. The Grassland Ecosystem Management Plan and an Agricultural Resources Management Plan—which is in development — provide information on agricultural resources, policies and goals.

**3,000** *Acres leased for agriculture in the North TSA*

*Hay bales. Photo courtesy Bob Crifasi.*

*The historic stone Old Kiln along Fourmile Canyon Creek before the 2013 floods. Photo courtesy Sue Hirschfeld.*

### Cultural Resources

The North TSA contains important paleontological, archaeological and historic resources. There are cultural features and sites that are important to indigenous people, sites and structures indicative of Euro-American settlement, agriculture, transportation and mining. Some well-known North TSA historic sites include the Old Lime Kiln and north-south grade built for the failed Lefthand and Middle Park Railroad west of U.S. 36.

The wide variety of paleontological, archaeological and historic resources creates a fascinating backdrop for people who enjoy the lands of the North TSA. Some of these cultural resources require a higher level of protection, in order to ensure their long-term sustainability.

### The North TSA After the 2013 Flood

The September 2013 flood brought unprecedented rainfall to the region and caused severe flooding and extensive damage to the Boulder Valley including OSMP trails, trailheads, irrigation facilities and fences. The flood also caused ecological changes to areas inundated with water and debris. Landscapes and visitor infrastructure near streams and drainages were significantly impacted and in some locations irreversibly altered.

After the flood, the Boulder community actively engaged in recovery efforts to repair and restore OSMP resources. These efforts promptly restored nearly all visitor access. In most areas, visitor access was restored after rapid action was taken to mitigate hazards and implement temporary repairs. Longer-term and lasting repairs of OSMP trails and trailheads has proceeded at a slower, yet steady pace as funding, staffing, contracting resources and environmental conditions allow. The number of sites and extensive amount of work necessary means that repair and restoration work will continue into the future.

## Resilience and Sustainability

The lands and resources of the North TSA like the Boulder community as a whole, face stresses like climate change, floods, drought, economic disruption and fire. Innovative and inclusive approaches are necessary for the future of the North TSA to be resilient and respond effectively to these challenges. This plan encompasses actions designed to allow the North TSA to better endure these challenges, and not only bounce back but also "bounce forward," preserving and improving the quality of life within our community.

As part of the city's efforts toward improving resilience, one of the major objectives of the North TSA Plan is to increase the physical and environmental sustainability of trails, trailheads and visitor infrastructure while conserving and restoring the valuable natural, agricultural and cultural resources within this area. Sustainable trails have negligible erosion, minimal braiding, and limited seasonal muddiness and will not require rerouting or major maintenance over long periods of time. Sustainable trails, trailheads and infrastructure support the current and anticipated uses and are designed to keep people on trail with minimal impacts to the adjoining natural systems.  Implementing the North TSA Plan fosters a step in the direction of a more resilient future.

# North TSA Interests for Plan Outcomes

Community members and stakeholders provided valuable feedback about their interests in the North TSA to OSMP staff and the OSBT through community workshops, online, in person through trailhead or local store-front outreach, email, social media submissions and through special youth engagement opportunities. Interests explain "why" someone wants or needs something rather than "what" they want. Interests enable diverse needs to be better met through more win-win actions. Through the various engagement efforts, the following community interests were identified.

*Improved Visitor Experience*

*Conservation of Resources Natural, Agricultural, Cultural*

*Improved Access and Accessibility*

*Honoring Community Values and Commitments*

*Increased Education and Understanding*

*Improved Connectivity*

*Balance of Recreation and Resource Conservation*

*Increased Safety*

*Decreased Visitor Conflict*

*Effective Planning Process and Plan Implementation*

The 10 identified North TSA Plan interests are consistent with the goal of the North TSA Plan, and provided guidance and direction for staff in the development of the plan. The goal of the plan is to balance all of the community interests.

# Post-Acquisition Property Planning and Management Area Designations

Newly acquired properties need to be integrated into the OSMP system and determinations made about how best to manage the properties' resources and visitor access. This is accomplished by assessing the natural, cultural and agricultural resources of the property, compatibility with visitor-access opportunities and any constraints that need to be addressed. The assessment then allows determinations on how the property can best contribute to the conservation of resources and the delivery of community services as guided by the policies and strategies of the VMP, Grassland Ecosystem Management Plan and Forest Ecology Management Plan, as well as other community adopted plans.

The VMP established the policy that plans would be developed for newly acquired properties. The process would include an assessment of the property and recommendations for public access, and any appropriate infrastructure and services necessary for managing access. Newly acquired property would remain closed to the public until the relevant planning had been completed and on-the-ground actions had been implemented. Planning also would recommend the VMP management area designations if that step had not been taken previously.

The OSMP Acquisition Update 2013-2019 included the option of using a more system-wide framework for integrating new properties into the OSMP system by including them in a broader planning process such as TSA plans. The North TSA includes properties that fit into various stages of assessment, planning and management area designation.

*A view of the Joder and West Beech properties north of Boulder.*

### Property Planning

*The North TSA Plan includes three general types of property-specific recommendations:*

- *Visitor-access recommendations for recent acquisitions currently closed to public access;*
- *Management-area designations for properties without designations.*
- *A property complex (Joder and Cox properties) with a management area designation that will be reviewed.*

*The North TSA Plan includes recommendations for these properties to guide and manage visitor access.*

*View south from the North Foothills Subarea. © Gary Stevens.*

# North TSA Plan Recommendations

## North TSA-Wide

## MAP 1: North TSA-Wide - Management Area Designations

**ACTIONS T1 to T9**

**Provide management area designations for properties without designations to guide management actions.**

*Interests Met: 4**

- *Retain the Joder and Cox property designation (**T1**) as a Habitat Conservation Area (HCA) and implement as part of the North Foothills HCA.*
- *Designate Dagle II (**T2**), Stratton (**T5**), Lappin (**T6**), IBM open space easement (**T7**), Hart-Jones Exchange (**T8**) and Palo Park (**T9**) properties as Natural Areas.*
- *Limit public access to on trail travel on IBM open space easement property.*
- *Designate Dakota Ridge Village (**T3**) property as a Passive Recreation Area.*
- *Designate Berman Brothers (**T4**) property as an Agricultural Area.*

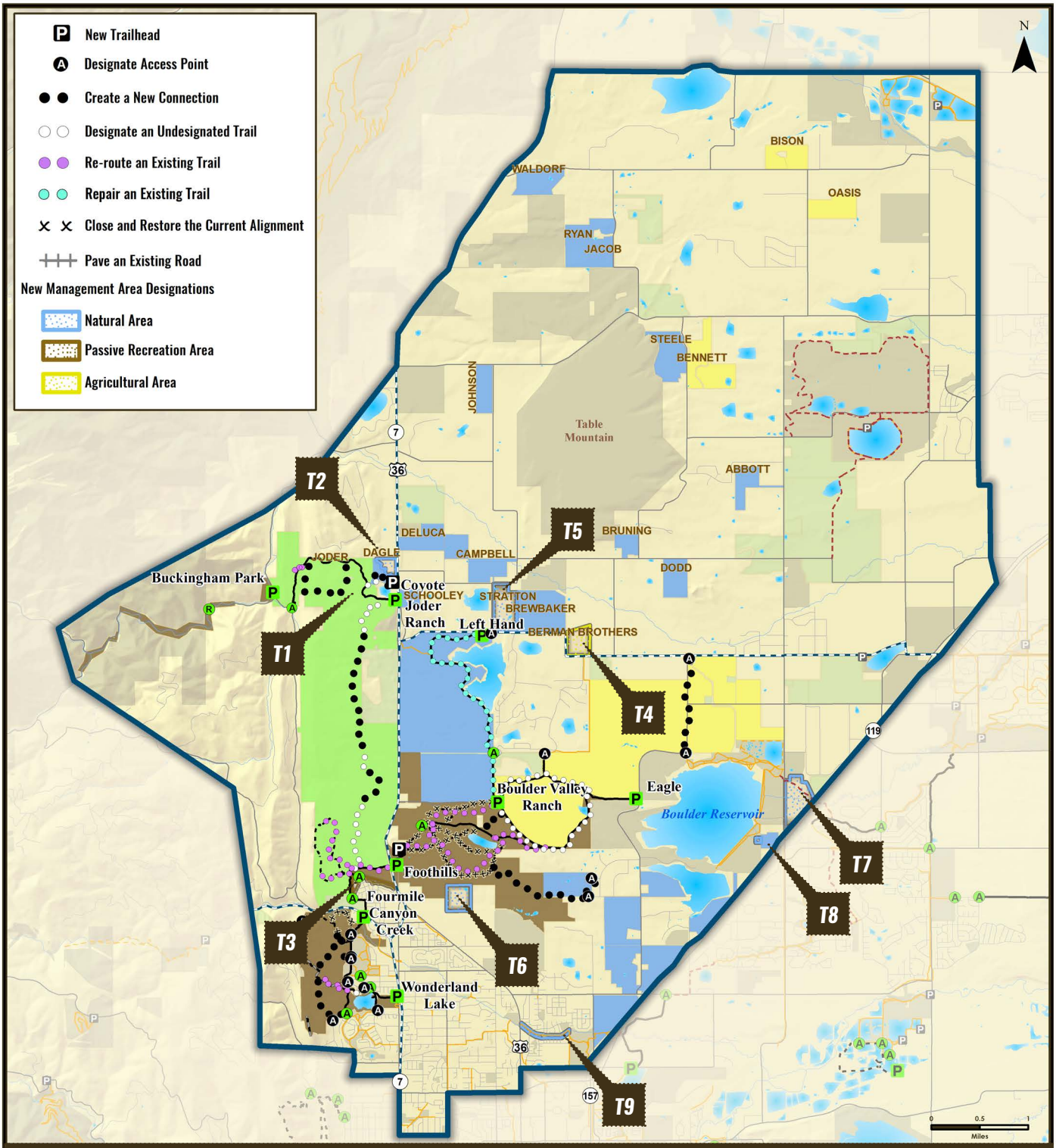
### Primary Goal

- *Implement VMP direction to provide management area designations for properties without designations to guide management actions.*

### Driving Factors/Benefits

- *Joder: includes sensitive habitat and resources that are a consistent extension of habitats and species in North Foothills HCA.*
- *Dagle II: natural area designation is consistent with adjacent Wright and Dagle I management designations.*
- *Dakota Ridge: adjacent to North Foothills Trail and adjoining passive recreation management area.*
- *Berman Brothers: this property has been designated as an agricultural land of statewide importance-suitable for hay production or grazing.*
- *Stratton: protect important resources and create healthy habitats for native amphibians, native fish, and, potentially, Preble's meadow jumping mouse.*
- *Lappin: protect important plant and aquatic species as well as shale barrens habitat.*
- *IBM: support creation of the IBM connector trail.*
- *Hart-Jones Exchange: protect riparian areas and rare plant community habitat.*
- *Palo Park: protect riparian area of Fourmile Canyon Creek.*

*See Appendix D for a list of interests met by each action.




## MAP 1: North TSA-Wide - Management Area Designations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail
- Non-OSMP Planned Trail
- Agricultural Area
- Habitat Conservation Area
- Natural Area
- Passive Recreation Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

Trail changes are depicted conceptually. Actual trail alignments will differ.

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## MAP 2: North TSA-Wide - Recommendations

### Actions T10 to T15

**Collaborate with partner agencies to create regional connections.**

*Interests Met: 3**

*As opportunities arise, collaborate with partner agencies to create the following regional trail connections in a way that minimizes natural resource impacts.*

- *(**T10**) North TSA to Boulder County Parks and Open Space's Heil Valley Ranch. The North TSA Plan does not preclude future public planning processes to assess a regional connector trail connection to Heil Ranch on the Buckingham property.*
- *(**T11**) North TSA to Boulder County Parks and Open Space's Lagerman/Imel/AHI/Open Space Complex.*
- *(**T12**) A Boulder-to-Lyons trail connection including the efforts of the Rocky Mountain Greenway Project.*
- *(**T13**) IBM Connector Underpass and Trail (construction pending).*
- *(**T14**) Fourmile Canyon Creek Trail underpass to Cottonwood Trail (construction pending).*
- *(**T15**) Eagle Trail to the planned Boulder Reservoir Trail.*

### Primary Goal

- *Enhance regional trail connectivity.*

### Driving Factors/Benefits

- *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*
- *Coordination and collaboration among OSMP and partner agencies to accomplish regional connections.*
- *Specific to the Eagle Trail to Boulder Reservoir Trail connection: keep trail close to 51st and 55th streets in existing transportation corridors as much as is feasible.*

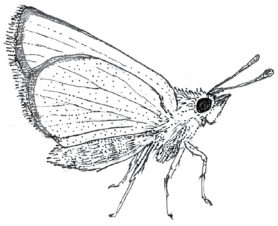
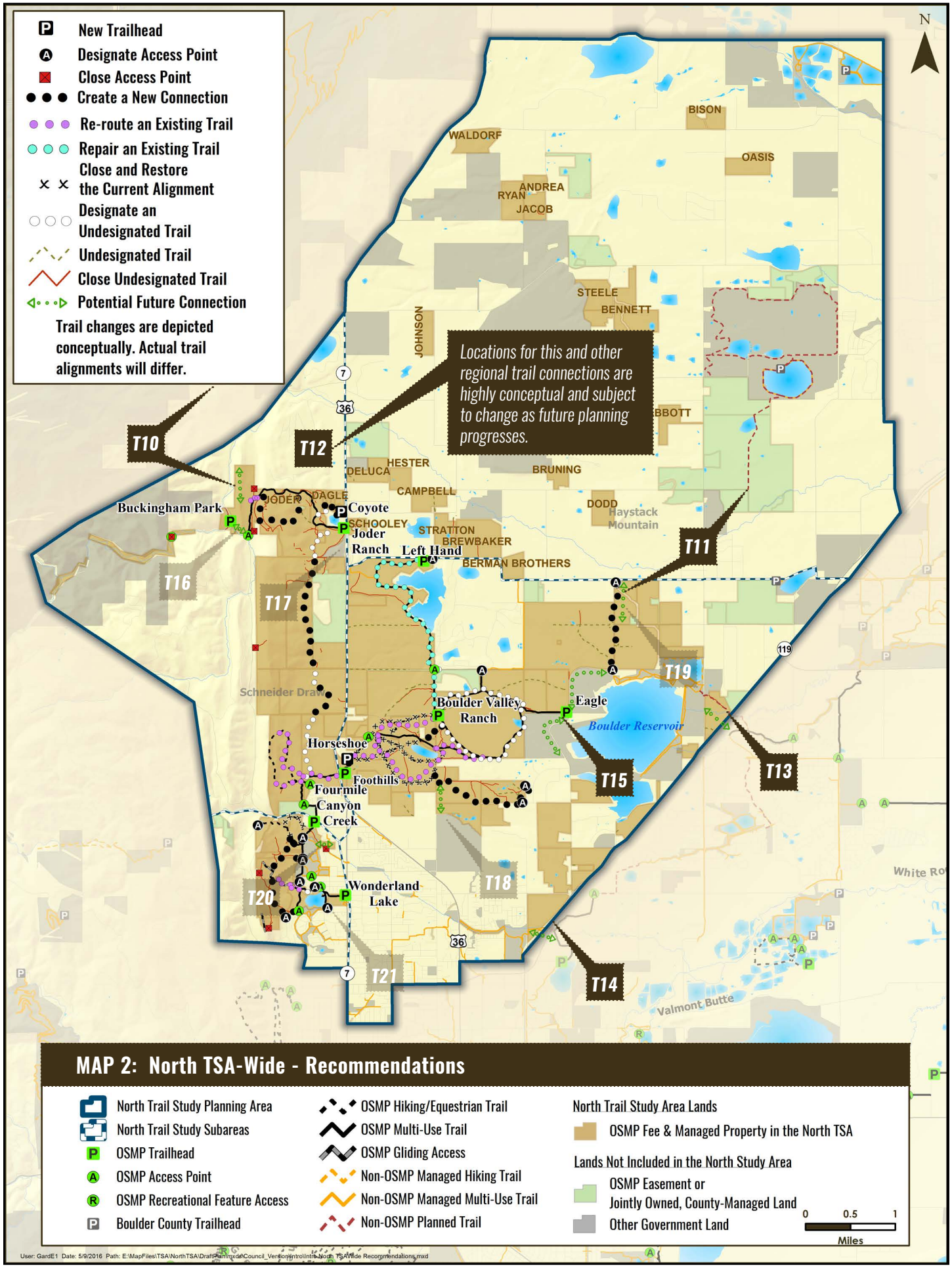


*Illustration of a globally rare arogos skipper by OSMP staff Dave Sutherland, prepared for a forthcoming interpretive sign at Joder Ranch.*

*See Appendix D for a list of interests met by each action.


New Trailhead
Designate Access Point
Close Access Point
Create a New Connection
Re-route an Existing Trail
Repair an Existing Trail
Close and Restore the Current Alignment
Designate an Undesignated Trail
Undesignated Trail
Close Undesignated Trail
Potential Future Connection
Trail changes are depicted conceptually. Actual trail alignments will differ.
Locations for this and other regional trail connections are highly conceptual and subject to change as future planning progresses.
N
T10
T11
T12
T13
T14
T15
T16
T17
T18
T19
T20
T21
BISON
WALDORF
OASIS
ANDREA
RYAN
JACOB
STEELE
BENNETT
JOHNSON
BBOTT
HESTER
DELUCA
BRUNING
CAMPBELL
DODD
Haystack Mountain
Buckingham Park
JODER
DAGLE
Coyote
SCHOOLEY
Joder Ranch
STRATTON
BREWBAKER
Left Hand
BERMAN BROTHERS
Schneider Draw
Boulder Valley Ranch
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## MAP 2: North TSA-Wide - Recommendations, continued

### Actions T16 to T20

**Collaborate with partner agencies to create local trail connections.**

*Interests Met: 3**

- *As opportunities arise, collaborate with partner agencies to create the following local trail connections in a way that minimizes natural resource impacts.*
- *(**T16**) Joder Trail to Buckingham Park via Olde Stage Road (in progress).*
- *(**T17**) Joder Ranch and Boulder County's Six-Mile Fold. Boulder County will conduct its own public planning process to determine access and management of visitors on Six-Mile Fold. OSMP will coordinate with the county's planning efforts to determine if and where trails could be located in this area.*
- *(**T18**) City of Boulder's Area III park site to the North TSA.*
- *(**T19**) Boulder Reservoir to Niwot Road.*
- *(**T20**) Fourmile Canyon Creek Greenway path to Foothills Community Park.*

#### Primary Goal

- *Enhance local trail connectivity.*

#### Driving Factors/Benefits

- *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*
- *Increase coordination and consistency among OSMP and partner agencies.*
- *Specific to Joder Ranch and Boulder County's Six-Mile Fold connection: Provide additional interpretive opportunities.*
- *Specific to Area III park site connection: (1) Work with partner agencies on a north-south trail connection from northern Boulder neighborhoods to North TSA; and (2) Increase accessibility for neighbors to the North TSA.*
- *Specific to Fourmile Canyon Creek Greenway path to Foothills Community Park connection: Connection accepted by City Council in the Greenways Master Plan.*

### Action T21 Designate undesignated access points that connect with new or existing designated trails.

*Interests Met: 4**

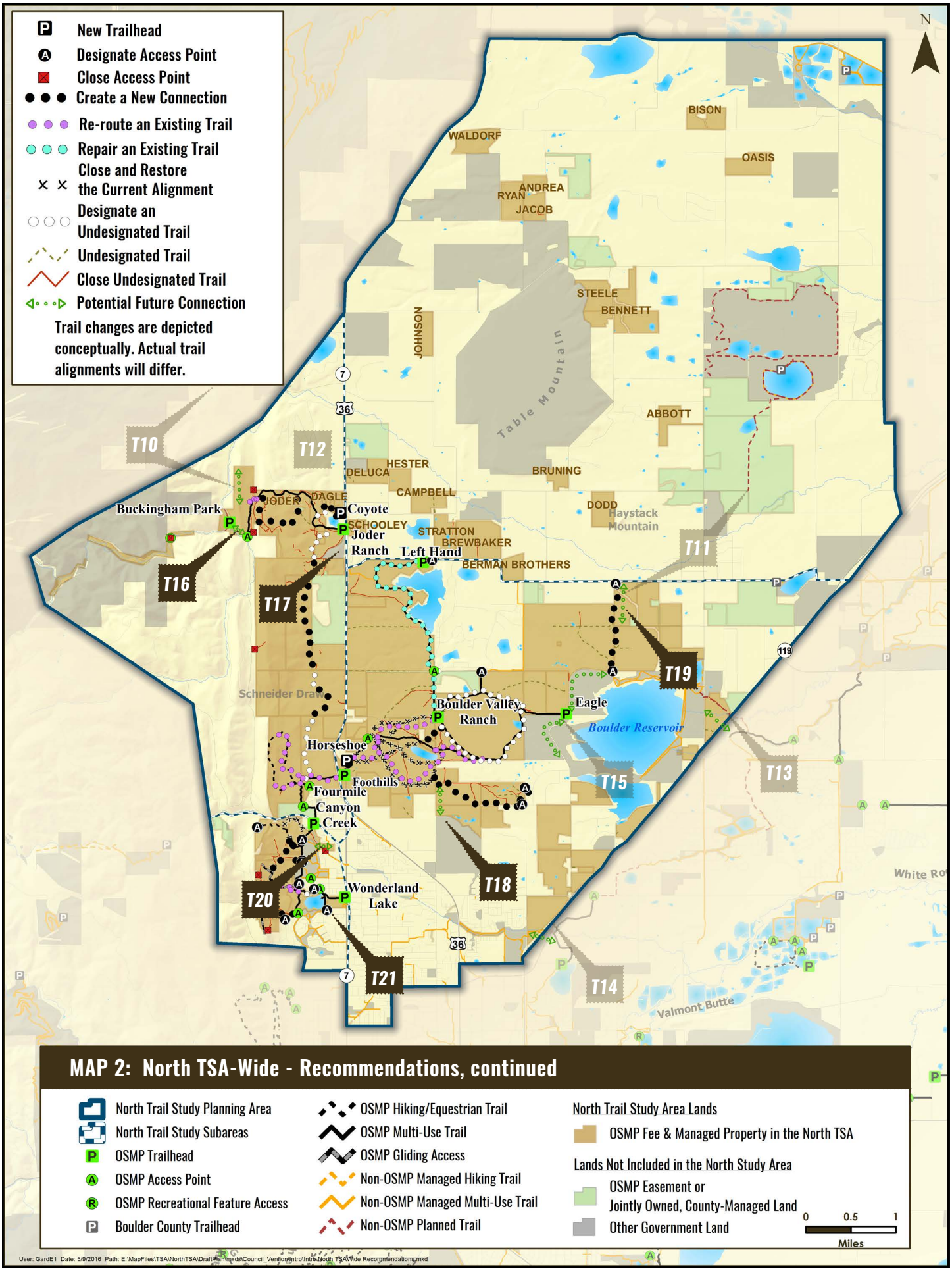
#### Primary Goal

- *Provide managed public access to designated trails to encourage visitors to use designated trails.*

#### Driving Factors/Benefits

- *Establish clearly identified designated trail access points.*
- *Identify infrastructure and maintenance standards for access points.*
- *Improve connectivity between North TSA and publicly accessible areas.*
- *Minimize impacts to natural resources as connections are improved.*

*See Appendix D for a list of interests met by each action.


New Trailhead
Designate Access Point
Close Access Point
Create a New Connection
Re-route an Existing Trail
Repair an Existing Trail
Close and Restore the Current Alignment
Designate an Undesignated Trail
Undesignated Trail
Close Undesignated Trail
Potential Future Connection
Trail changes are depicted conceptually. Actual trail alignments will differ.
N
BISON
WALDORF
OASIS
ANDREA
RYAN
JACOB
STEELE
BENNETT
JOHNSON
Table Mountain
ABBOTT
T10
T12
HESTER
DELUCA
BRUNING
CAMPBELL
DAGLE
JODER
Buckingham Park
Coyote
SCHOOLEY
Joder Ranch
STRATTON
BREWBAKER
Left Hand
BERMAN BROTHERS
DODD
Haystack Mountain
T11
T16
T17
T19
Schneider Draw
Boulder Valley Ranch
Eagle
Boulder Reservoir
Horseshoe
Foothills
Fourmile Canyon Creek
T15
T13
T18
T20
Wonderland Lake
T21
T14
Valmont Butte
White Ro
7
36
119
MAP 2: North TSA-Wide - Recommendations, continued
North Trail Study Planning Area
North Trail Study Subareas
OSMP Trailhead
OSMP Access Point
OSMP Recreational Feature Access
Boulder County Trailhead
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
OSMP Gliding Access
Non-OSMP Managed Hiking Trail
Non-OSMP Managed Multi-Use Trail
Non-OSMP Planned Trail
North Trail Study Area Lands
OSMP Fee & Managed Property in the North TSA
Lands Not Included in the North Study Area
OSMP Easement or Jointly Owned, County-Managed Land
Other Government Land
0 0.5 1
Miles
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## ADDITIONAL ACTIONS: North TSA-Wide - Recommendations

### Action T22 Bring all trails up to standards.

*Interests Met: 4**

» *Conduct maintenance activities to bring trails up to OSMP sustainable trail guidelines.***

#### Primary Goal

» *Increase trail sustainability to protect the OSMP trail system over the long term while providing a quality visitor experience.*

#### Driving Factors/Benefits

» *A sustainable trail is physically, ecologically and economically sustainable over time.*

» *Ensure trails maintain their character over time and encourage on-trail use.*

» *Use ecological best management practices as work is planned and implemented to minimize erosion and locate trails in a manner that minimizes impacts to surrounding natural and cultural resources.*

» *Upgrade trails so they will require minimal maintenance and financial resources over the long term.*

### Action T23 Bring all trailheads and access points up to standards.

*Interests Met: 4**

» *Update, replace and install infrastructure to bring existing trailheads and access points up to OSMP standards.***

#### Primary Goal

» *Install appropriate and functioning infrastructure at each trailhead and access point to provide a safe, consistent and quality visitor experience.*

#### Driving Factors/Benefits

» *Provide visitors with safe, well-maintained and functioning infrastructure (e.g., easy to understand signs, toilets, safe parking access, etc.)*

» *Upgrade infrastructure so that it is less difficult and costly to maintain over time.*

### Action T24 Remove unnecessary fencing and use wildlife friendly fencing.

*Interests Met: 3**

» *Remove fencing that is no longer serving a function and when modifying or installing fencing in implementation of the North TSA, ensure fencing is wildlife friendly.*

#### Primary Goal

» *Remove fences no longer serving a purpose and replace barbed-wire fences with less harmful barriers.*

#### Driving Factors/Benefits

» *Remove fences to improve visitor experience and resource conservation.*

» *Enhance wildlife corridors while balancing livestock control measures.*

» *Install new fences with wildlife friendly design.*

**See Appendix D for a list of interests met by each action.*

*** OSMP trail and trailhead standards available in the North TSA Inventory and Assessment Report. For current information about OSMP standards, visit osmp.org.*

### Primary Goal

» *Create larger areas of unfragmented habitat by closing, revegetating or restoring undesignated trails that have not been designated through the North TSA process.*

### Driving Factors/Benefits

» *Eliminate undesignated trails that are redundant and unmanaged trail connections.*

» *Improve conservation of rare plant communities and other sensitive resources.*

» *Offset resource impacts of providing new trail connections.*

***IMPORTANT NOTE*: The North TSA Plan recommendations will result in some undesignated trails being integrated into the designated trail system and other undesignated trails being closed and vegetation restored. A few undesignated trails are used for authorized vehicle access and will be retained for this purpose.**

| North TSA Plan Recommendations for Undesignated Trails | Miles |
|---|---|
| Integrate into OSMP Trail System | 4.7 |
| Close and Restore Vegetation | 22.7 |
| Retain for Authorized Vehicle Access | 7.9 |
| Total | 35.3 |

**Action T25 Allow natural revegetation or restore all undesignated trails not integrated into designated trail connections.**

*Interests Met: 4**

» *Assess and prevent the introduction and spread of priority invasive plants along new trail connections and decommissioned or undesignated trail sections under restoration.*

### Primary Goal

» *Conserve and restore high-quality native plant communities and rare plant communities.*

### Driving Factors/Benefits

» *Share information about the resource impacts associated with the spread of invasive plants and ways visitors can help prevent or minimize this issue.*

» *The North Foothills HCA is an area of high importance for this action.*

**Action T26 Assess and prevent the introduction and spread of priority invasive plants.**

*Interests Met: 2**

### Primary Goal

» *Share information with visitors about the ecology, natural features, habitats, plants and animals in various locations throughout the North TSA, including North Foothills HCA, Boulder Valley Ranch and Wonderland Lake.*

### Driving Factors/Benefits

» *Increase public awareness and understanding of interesting or unique natural resources.*

» *Improve compliance with regulations through programs directed at resource protection.*

**Action T27 Create interpretive information and messages about unique, rare and sensitive resources.**

*Interests Met: 2**

**See Appendix D for a list of interests met by each action.*

Background photo: Joder property.

# North TSA Plan Recommendations

## North Foothills

## MAP 3: North Foothills - Management Area Designations

### ACTION NF1 Retain the Joder property as a Habitat Conservation Area (HCA).

*Interests Met: 4**

» *Retain the management area designation and include as part of the North Foothills HCA.*

**Primary Goal**

» *Honor the OSBT's request to thoroughly evaluate the Joder property management area designation and implement the VMP direction to establish management area designations for undesignated properties to guide management actions.*

**Driving Factors/Benefits**

» *Joder includes sensitive habitat and resources that are a consistent extension of habitats and species in the North Foothills HCA including rare plants and plant communities, highly suitable habitat for North TSA focal species such as globally-imperiled grassland-dependent butterflies, lazuli bunting, lark sparrow and prairie rattlesnake.*

» *Ensures trail development and visitor access are considered in the context of important and sensitive natural resources.*

### ACTION NF2 Designate Dagle II property as a Natural Area.

*Interests Met: 2**

**Primary Goal**

» *Implement VMP direction to provide management area designations for undesignated properties.*

**Driving Factors/Benefits**

» *Consistent with adjacent Wright and Dagle I management area designations.*

### ACTION NF3 Designate Dakota Ridge Village property as a Passive Recreation Area.

*Interests Met: 2**

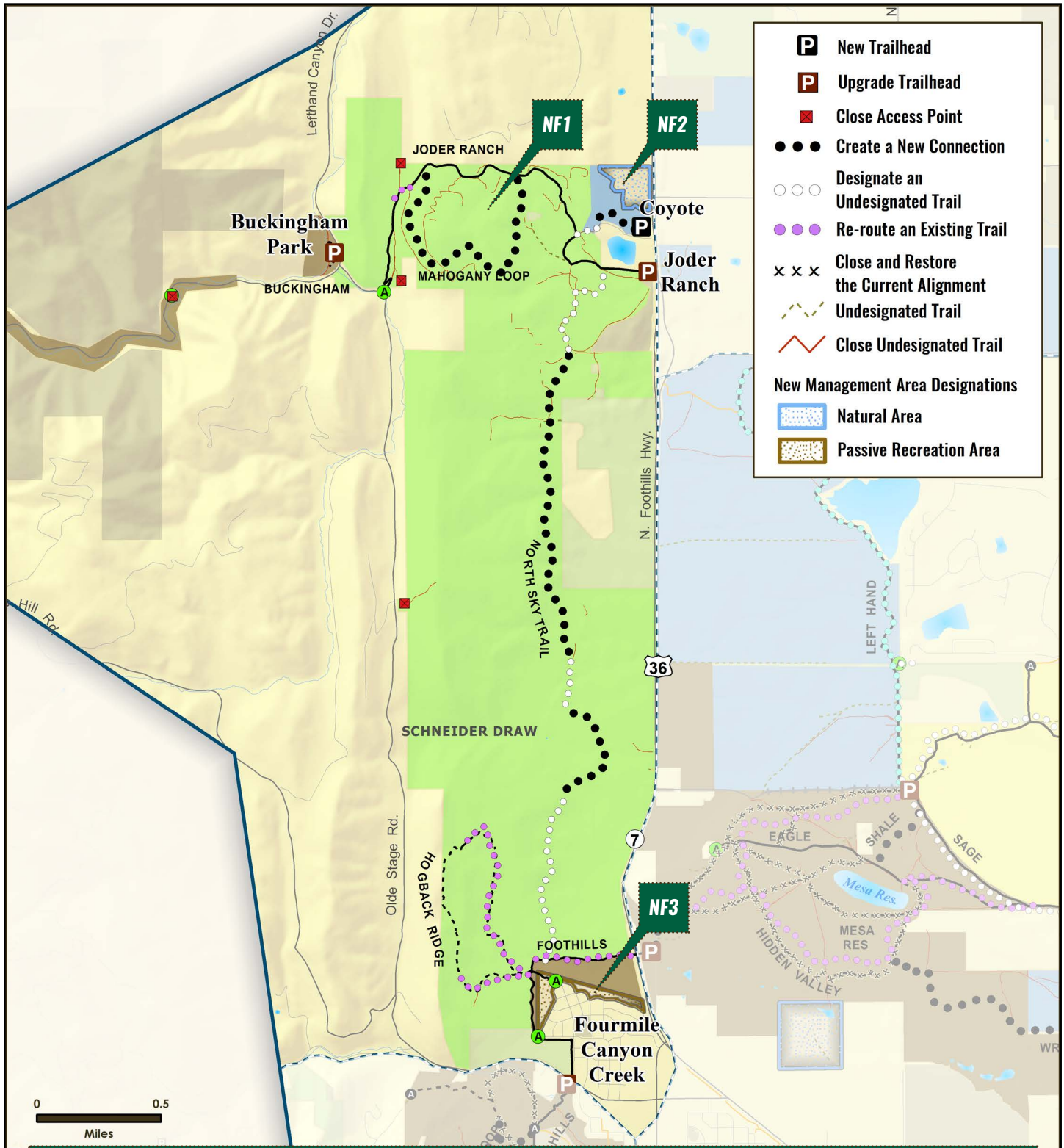
**Primary Goal**

» *Implement VMP direction to provide management area designation for undesignated properties.*

**Driving Factors/Benefits**

» *Consistent with adjacent Passive Recreation Area designation around Foothills Trail.*

*See Appendix D for a list of interests met by each action.




## MAP 3: North Foothills - Management Area Designations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Access Point
- OSMP Fee & Managed Property
- OSMP Easement or Jointly Owned, County-Managed Land
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Non-OSMP Managed Multi-Use Trail

Trail changes are depicted conceptually. Actual trail alignments will differ.

- Agricultural Area
- Habitat Conservation Area
- Natural Area
- Passive Recreation Area
- Other Government Land

N

## MAP 4: North Foothills - Subarea-Wide Recommendations

**ACTION NF4 Collaborate to create a trail connection from North TSA to Boulder County Parks and Open Space's Heil Valley Ranch.**

*Interests Met: 3**

- *As opportunities arise, collaborate with partner agencies to create regional trail connections in a way that minimizes natural resource impacts.*
- *The North TSA Plan does not preclude future public planning processes to assess a regional trail connection to Heil Ranch on the Buckingham property.*

### Primary Goal

- *Enhance regional connectivity.*

### Driving Factors/Benefits

- *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*
- *Increase coordination among OSMP and partner agencies.*

**ACTION NF5 Collaborate to create a connection from Joder Ranch Trail to Buckingham Park via Olde Stage Road (in progress).**

*Interests Met: 3**

- *As opportunities arise, collaborate with partner agencies to create local trail connections in a way that minimizes natural resource impacts.*

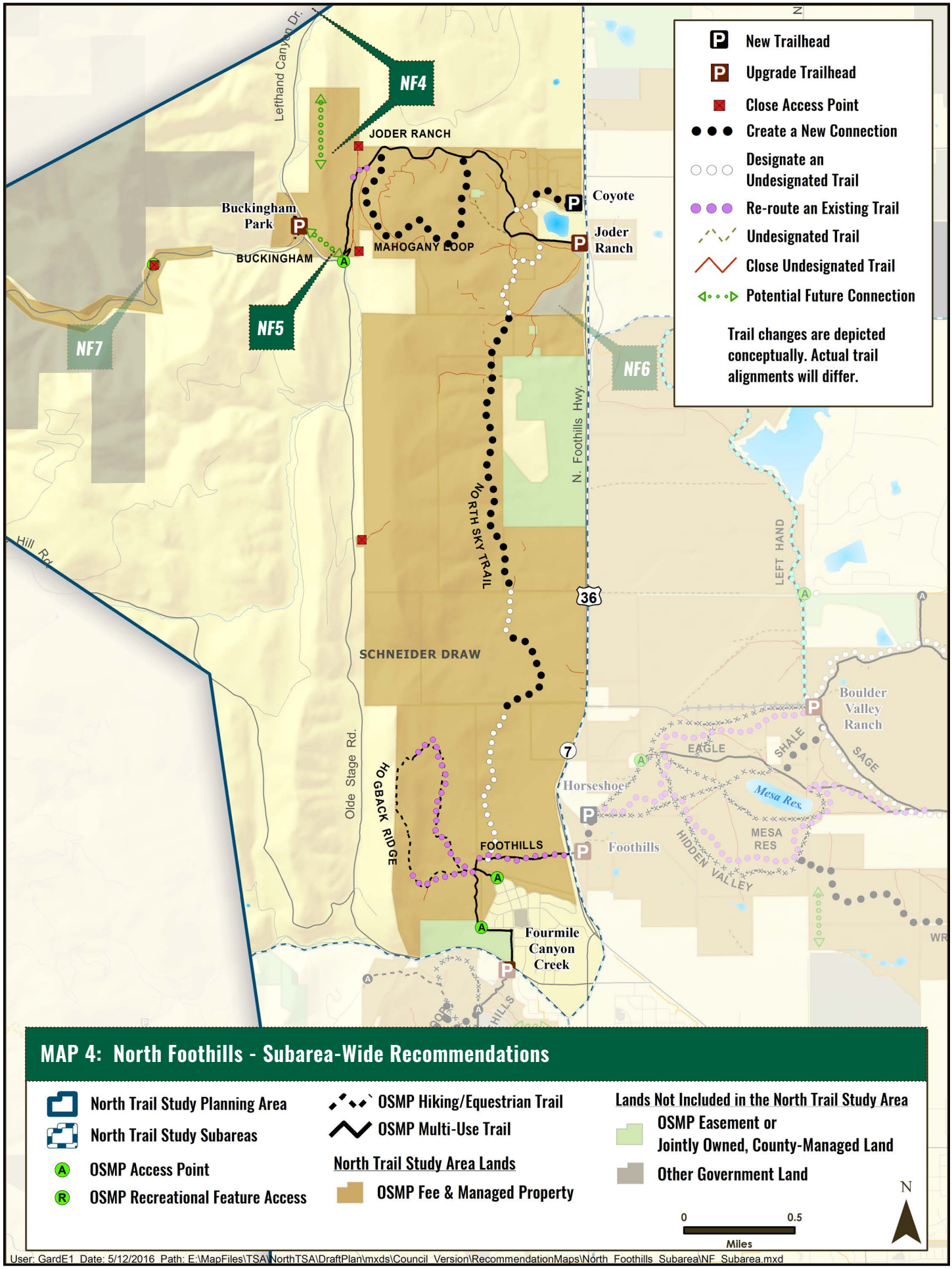
### Primary Goal

- *Enhance local trail connectivity.*

### Driving Factors/Benefits

- *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*
- *Increase coordination among OSMP and partner agencies.*

*See Appendix D for a list of interests met by each action.


New Trailhead
Upgrade Trailhead
Close Access Point
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Undesignated Trail
Close Undesignated Trail
Potential Future Connection
Trail changes are depicted conceptually. Actual trail alignments will differ.
NF4
NF5
NF6
NF7
JODER RANCH
Buckingham Park
BUCKINGHAM
MAHOGANY LOOP
Coyote
Joder Ranch
Lefthand Canyon Dr.
N. Foothills Hwy.
NORTH SKY TRAIL
SCHNEIDER DRAW
Olde Stage Rd.
HOGBACK RIDGE
FOOTHILLS
Fourmile Canyon Creek
LEFT HAND
Boulder Valley Ranch
EAGLE
SHALE
SAGE
Horseshoe
Mesa Res.
Foothills
MESA RES
HIDDEN VALLEY
36
7
MAP 4: North Foothills - Subarea-Wide Recommendations
North Trail Study Planning Area
North Trail Study Subareas
OSMP Access Point
OSMP Recreational Feature Access
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
North Trail Study Area Lands
OSMP Fee & Managed Property
Lands Not Included in the North Trail Study Area
OSMP Easement or Jointly Owned, County-Managed Land
Other Government Land
0
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Miles
N
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## MAP 4: North Foothills - Subarea-Wide Recommendations, continued

### ACTION NF6 Collaborate to create a connection between Joder Ranch and Boulder County's Six-Mile Fold property.

*Interests Met: 3**

- *As opportunities arise, collaborate with partner agencies to create local trail connections in a way that minimizes natural resource impacts.*
- *Boulder County will conduct its own public planning process to determine access and management of visitors onto Six-Mile Fold. OSMP will coordinate with the county's planning efforts to determine if and where trails could be located to provide access to this area and minimize natural resource impacts.*

#### Primary Goal

- *Enhance local trail connectivity to provide designated access from the Joder Ranch Trail and Trailhead to the Six-Mile Fold area.*

#### Driving Factors/Benefits

- *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*
- *Increase coordination among OSMP and partner agencies.*
- *Enhance interpretive and education access and opportunities.*
- *Protect geological and natural resources.*

### ACTION NF7 Close Cottonwood Recreation Area.

*Interests Met: 2**

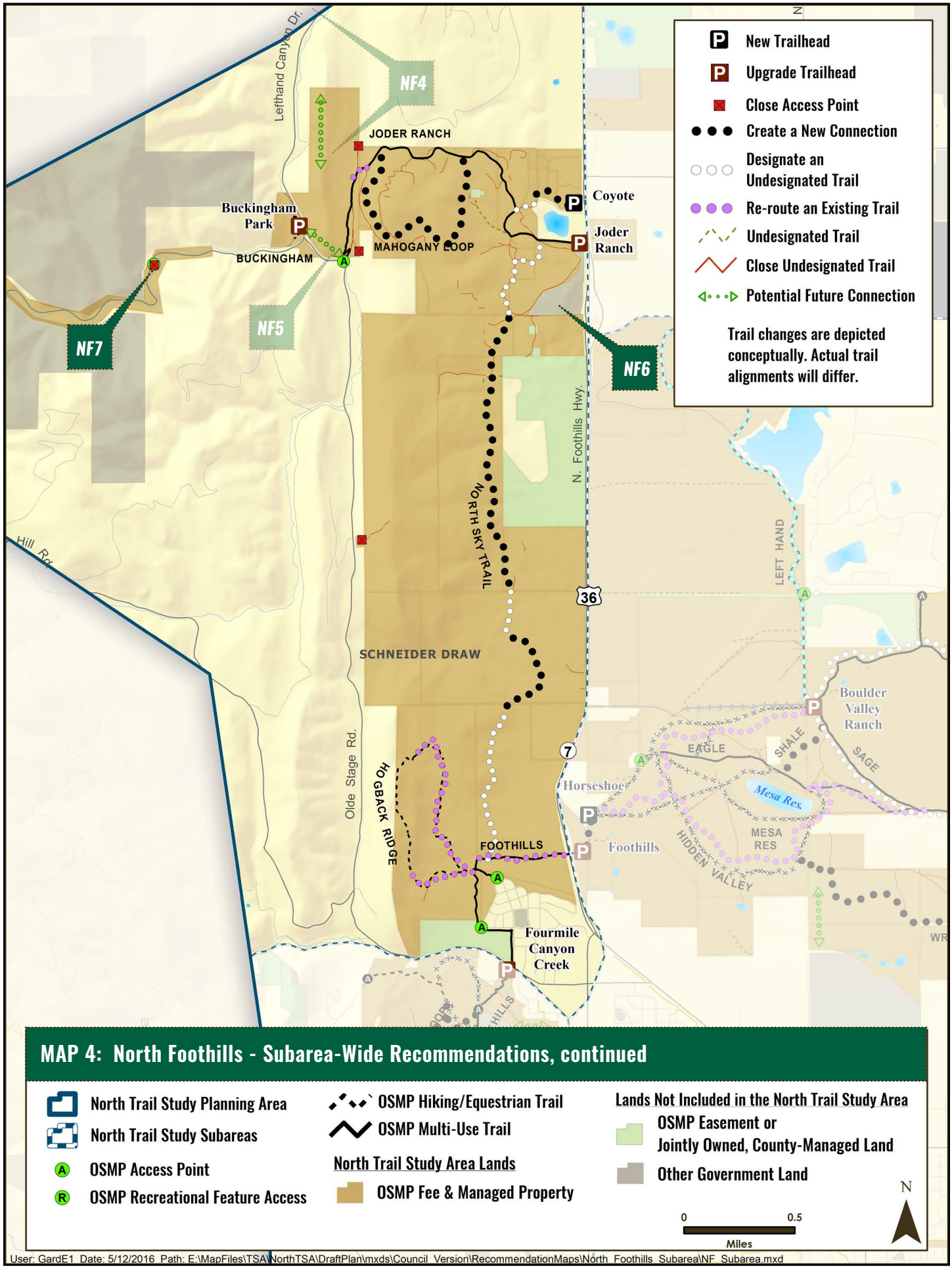
#### Primary Goal

- *Support Lefthand Creek wetland and riparian restoration efforts after 2013 flood.*

#### Driving Factors/Benefits

- *The site was significantly altered after the 2013 flood and recreation amenities destroyed.*
- *Area is no longer suitable as a recreation access area.*

*See Appendix D for a list of interests met by each action.




## MAP 4: North Foothills - Subarea-Wide Recommendations, continued

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Access Point
- OSMP Recreational Feature Access
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail

**North Trail Study Area Lands**

- OSMP Fee & Managed Property

**Lands Not Included in the North Trail Study Area**

- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

0 0.5 Miles

N

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## MAP 5: North Foothills - Joder Focus Area

### ACTION NF8 Realign western section of the Interim Joder Trail near the Buckingham property. (Joder Ranch Trail)

*Interests Met: 4**

**Primary Goal**

» *Improve trail conditions to improve physical sustainability and visitor experience.*

**Driving Factors/Benefits**

» *Re-route steep, unsustainable portion of trail at west end of carriage road that connects to Buckingham property to improve sustainability and reduce the trail grade.*

» *Conserve butterfly habitats and minimize the impact of the trail re-route on butterfly highly suitable habitat.*

### ACTION NF9 Construct one loop trail on the northwest section of the Joder property. (Mahogany Loop)

*Interests Met: 4**

**Primary Goal**

» *Increase recreation and visitor experience opportunities.*

**Driving Factors/Benefits**

» *Provide new visitor opportunity while limiting the extent of trail in areas of highest resource sensitivity and avoiding trails crossing through the large drainage on the property.*

» *Manage visitor activities to minimize visitor conflict on the loop trail.*

» *Allow restoration of historic undesignated trails to increase habitat quality in HCA.*

### ACTION NF10 Construct a new trailhead for passenger vehicle parking on the Dagle/Wright properties. (Coyote Trailhead)

*Interests Met: 4**

**Primary Goal**

» *Provide additional passenger vehicle parking for Joder Ranch that does not require visitors to cross U.S. 36.*

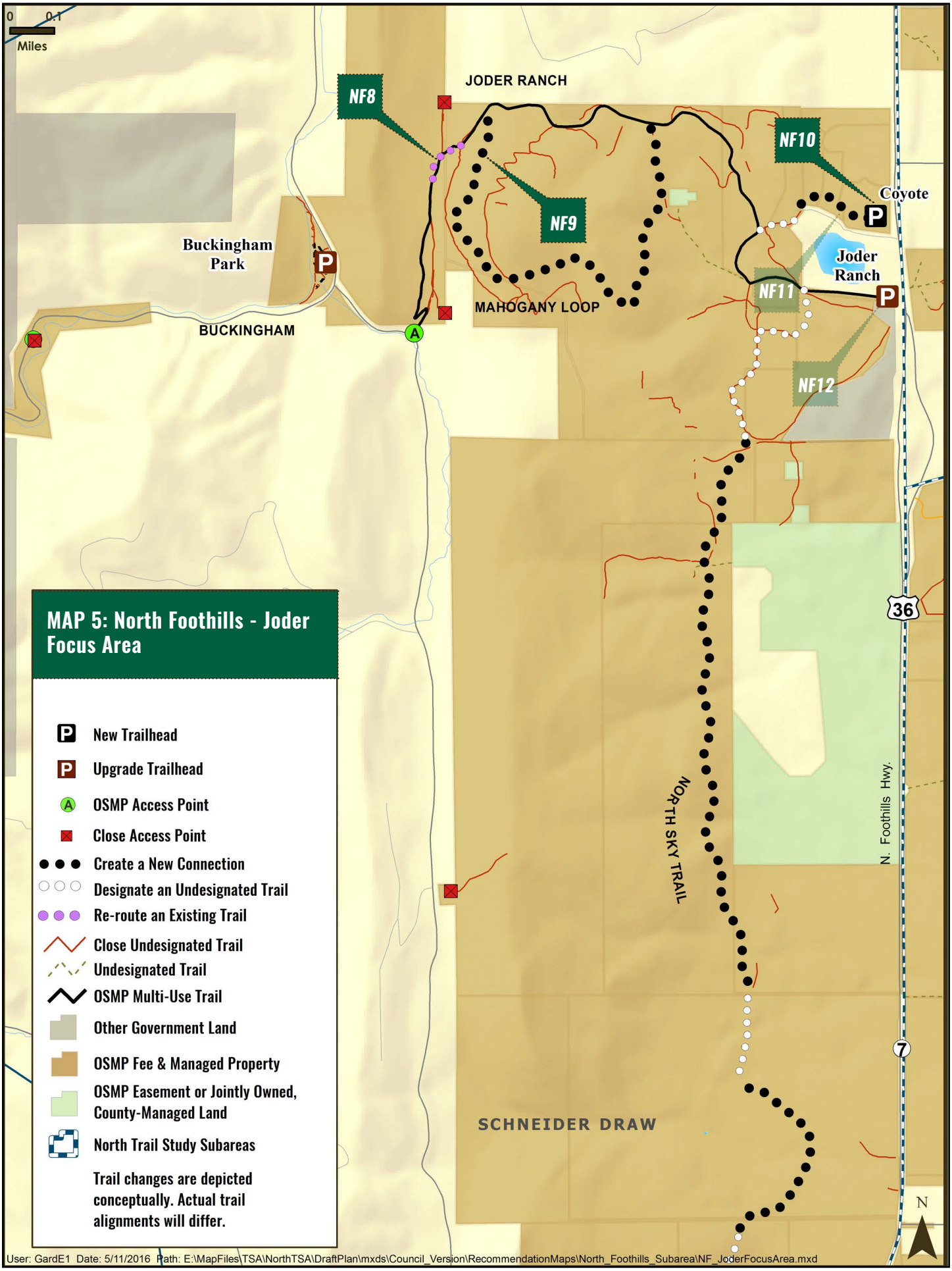
**Driving Factors/Benefits**

» *Provide parking for pedestrians and cyclists.*

» *Construct parking lot that has suitable terrain, drainage and soil quality.*

» *Access road off of U.S. 36 may provide suitable sitelines for obtaining Colorado Department of Transportation (CDOT) access permits.*

*See Appendix D for a list of interests met by each action.


0
0.1
Miles
JODER RANCH
NF8
NF9
NF10
NF11
NF12
Coyote
Joder Ranch
Buckingham Park
BUCKINGHAM
MAHOGANY LOOP
NORTH SKY TRAIL
N. Foothills Hwy.
SCHNEIDER DRAW
36
7
N
MAP 5: North Foothills - Joder Focus Area
New Trailhead
Upgrade Trailhead
OSMP Access Point
Close Access Point
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Close Undesignated Trail
Undesignated Trail
OSMP Multi-Use Trail
Other Government Land
OSMP Fee & Managed Property
OSMP Easement or Jointly Owned, County-Managed Land
North Trail Study Subareas
Trail changes are depicted conceptually. Actual trail alignments will differ.
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## MAP 5: North Foothills - Joder Focus Area, continued

**ACTION NF11 Construct a connector trail from the new trailhead (Coyote Trailhead) on the Dagle property to the Joder Ranch Trail.**

*Interests Met: 5**

### Primary Goal

» *Provide connection from the new parking area to the Joder Ranch Trail.*

### Driving Factors/Benefits

» *Create trail connectivity with trailhead.*

» *Minimize visitor conflict along the access road to lessees on the Dagle and Wright properties.*

**ACTION NF12 Retain Interim Joder Trailhead. (Joder Ranch Trailhead)**

*Interests Met: 4**

### Primary Goal

» *Provide horse trailer and large-vehicle parking for the Joder trail system. Retain a limited number of passenger vehicle parking spots.*

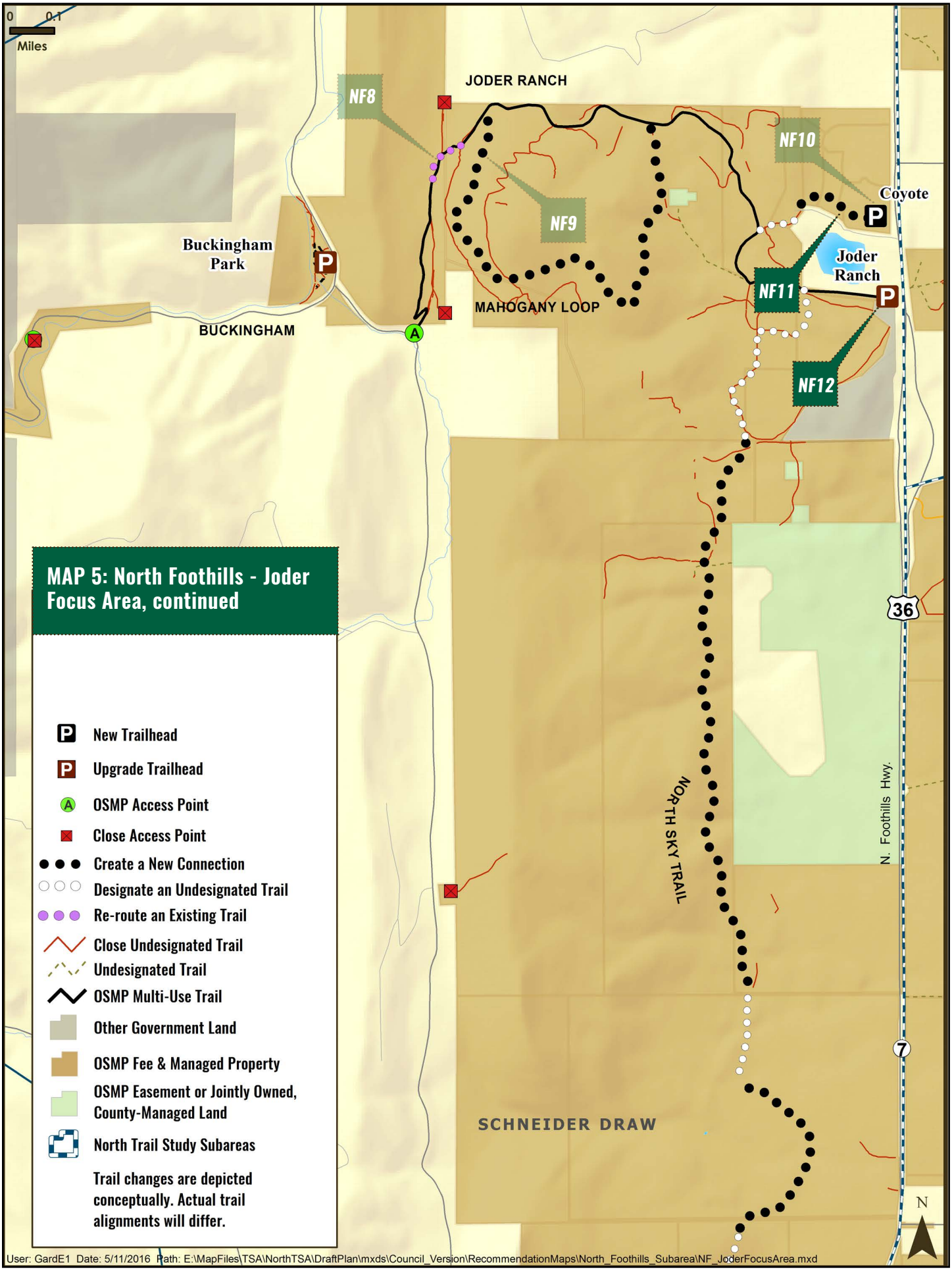
### Driving Factors/Benefits

» *Provide access for equestrians and school groups to the Joder property and Boulder County's Six-Mile Fold property.*

» *Increase safety by preventing the need for equestrians/school groups to cross U.S. 36 to access Joder property.*

*Barn on Joder property.*

*See Appendix D for a list of interests met by each action.


0
0.1
Miles
JODER RANCH
NF8
NF9
NF10
NF11
NF12
Coyote
Joder Ranch
Buckingham Park
BUCKINGHAM
MAHOGANY LOOP
NORTH SKY TRAIL
N. Foothills Hwy.
SCHNEIDER DRAW
36
7
N
MAP 5: North Foothills - Joder Focus Area, continued
New Trailhead
Upgrade Trailhead
OSMP Access Point
Close Access Point
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Close Undesignated Trail
Undesignated Trail
OSMP Multi-Use Trail
Other Government Land
OSMP Fee & Managed Property
OSMP Easement or Jointly Owned, County-Managed Land
North Trail Study Subareas
Trail changes are depicted conceptually. Actual trail alignments will differ.
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## MAP 6: North Foothills - Hogback and North Sky Focus Area

**ACTION NF13 Construct a north-south connector trail from Foothills Trail to the Joder Ranch Trail west of U.S. 36. (North Sky Trail)**

*Interests Met: 4**

- *Minimize the footprint of the North Sky Trail and find an alignment that minimizes natural resource impacts.*
- *Construct a trail from the southern section of the Railroad Grade, west of Foothills Business Park, connecting to the Joder Ranch Trail.*
- *Use best efforts to locate connector trail through the conservation easement.*

### Primary Goal

- *Increase connectivity among North TSA properties while minimizing natural resource impacts to every extent possible.*

### Driving Factors/Benefits

- *Use existing infrastructure and trails including parts of the Railroad Grade and abandoned roads and bridges.*
- *Minimize resource disturbance as much as feasible where creation of new trail tread is necessary.*
- *The conservation easement includes lower quality habitat than the area west of the conservation easement, and would allow for less impactful drainage crossings.*
- *Use steep terrain adjacent to Railroad Grade to encourage visitors to stay on the trail.*
- *Create interpretive opportunities around new trail alignment and the natural resources of the North Foothills HCA.*
- *Locate the trail east of the Railroad Grade to cross through Schneider Draw at a location that minimizes impacts to the high quality riparian area.*
- *Design drainage crossings to minimize wetland impacts and associated required mitigation.*
- *In a few locations where a pedestrian/equestrian-designed trail, rather than bike-accessible trail, can reduce resource impacts, consider designing these sections with the option that cyclists may need to dismount their bikes.*

**ACTION NF14 Include the North Sky Trail in the muddy closure program.**

*Interests Met: 3**

### Primary Goal

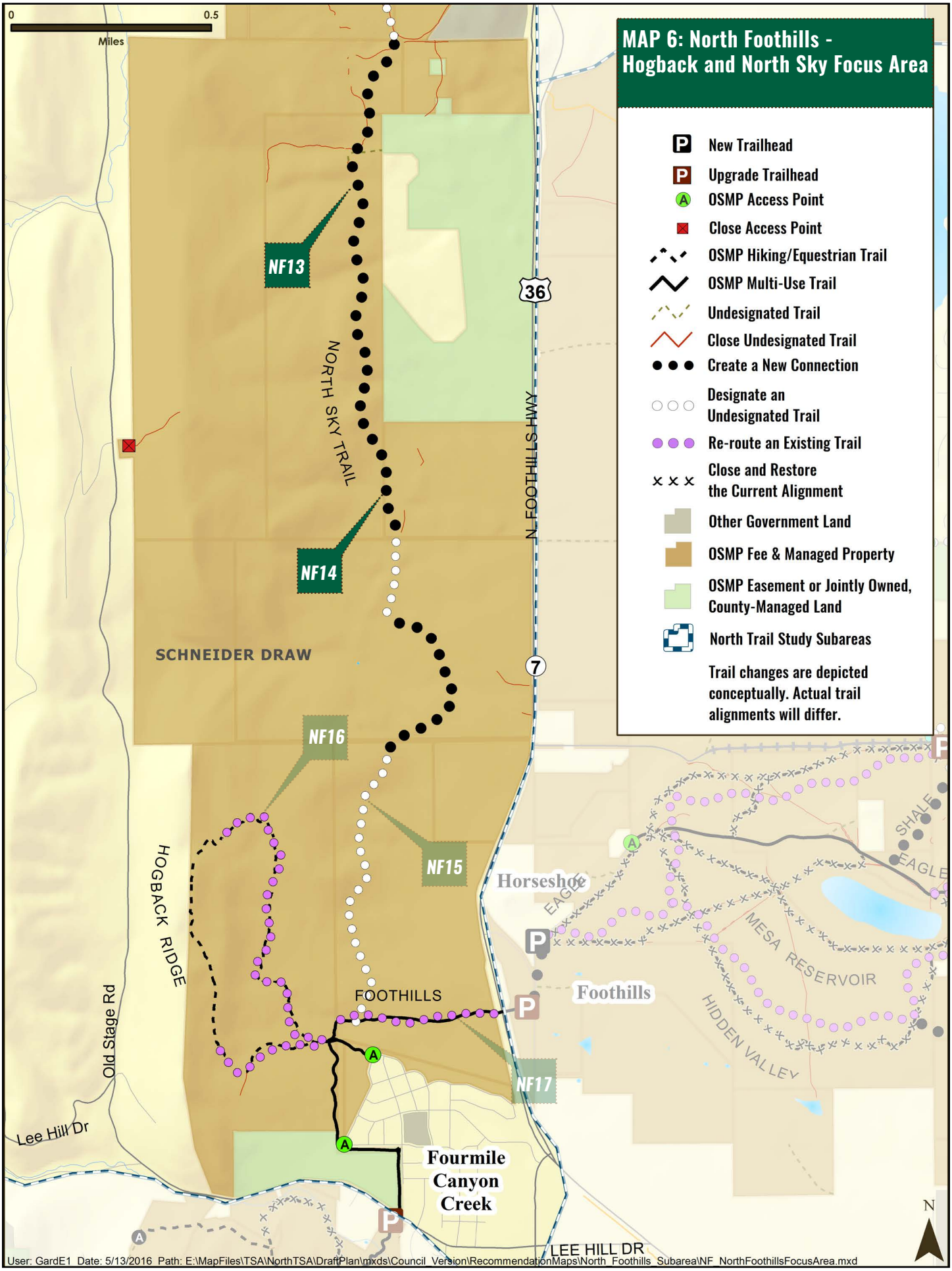
- *Improve trail sustainability and reduce trail maintenance and repair costs.*

### Driving Factors/Benefits

- *Reduce trail braiding and natural resource impacts.*
- *Improve trail conditions and sustainability.*

*Schneider Draw*

*See Appendix D for a list of interests met by each action.


MAP 6: North Foothills - Hogback and North Sky Focus Area
New Trailhead
Upgrade Trailhead
OSMP Access Point
Close Access Point
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
Undesignated Trail
Close Undesignated Trail
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Close and Restore the Current Alignment
Other Government Land
OSMP Fee & Managed Property
OSMP Easement or Jointly Owned, County-Managed Land
North Trail Study Subareas
Trail changes are depicted conceptually. Actual trail alignments will differ.
0
0.5
Miles
NF13
NF14
NF15
NF16
NF17
NORTH SKY TRAIL
N. FOOTHILLS HWY
36
7
SCHNEIDER DRAW
HOGBACK RIDGE
Old Stage Rd
Lee Hill Dr
FOOTHILLS
Horseshoe
EAGLE
SHALE
MESA RESERVOIR
Foothills
HIDDEN VALLEY
Fourmile Canyon Creek
LEE HILL DR
N
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## MAP 6: North Foothills - Hogback and North Sky Focus Area, continued

### Action NF15 Post educational signs about the North Foothills HCA.

*Interests Met: 4**

- *Include information about the area's important natural resources as well as safety concerns such as rattlesnakes.*

#### Primary Goal

- *Educate visitors about the important natural resources and safety concerns of the HCA.*

#### Driving Factors/Benefits

- *Reduce impacts of new recreation opportunities on natural resources.*
- *Increase visitor awareness of special natural resources and HCAs.*
- *Increase safety of visitors.*
- *Increase compliance with regulations intended to protect the habitats of the HCA.*

### Action NF16 Re-route Hogback Trail.

*Interests Met: 5**

#### Primary Goal

- *Construct a more sustainable trail.*

#### Driving Factors/Benefits

- *Improve trail quality and sustainability, thereby encouraging visitors to stay on trail, as well as minimize trail braiding and the creation of social trails.*
- *During re-route, minimize impacts to highly suitable habitat for North TSA focal species including bluestem dependent butterflies, lark sparrow and prairie rattlesnakes.*
- *Avoid rare and sensitive plant communities, rare plant habitat and wetlands in re-route planning.*
- *Repair trail damaged by 2013 flood.*

### Action NF17 Re-route Foothills Trail where it connects to Hogback Trail and eastward to U.S. 36.

*Interests Met: 5**

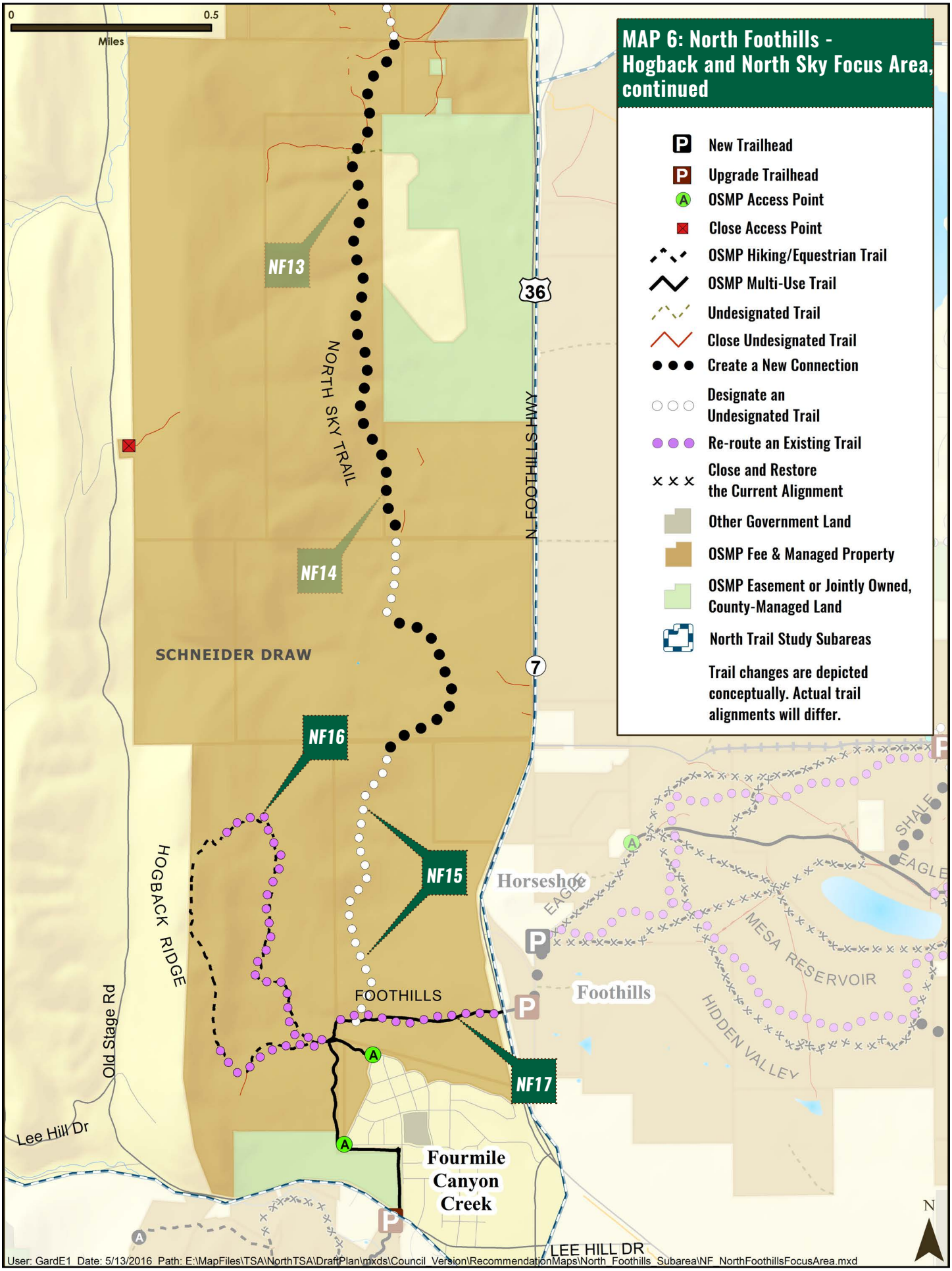
#### Primary Goal

- *Construct a more sustainable trail.*

#### Driving Factors/Benefits

- *Improve trail quality and sustainability, thereby encouraging visitors to stay on trail as well as minimize trail braiding and the creation of social trails.*
- *During re-route, minimize impacts to highly suitable habitat for North TSA focal species including bluestem dependent butterflies, lark sparrow and prairie rattlesnakes.*
- *Repair trail damaged by 2013 flood.*
- *Avoid rare plant habitat in planning and constructing re-route.*

*See Appendix D for a list of interests met by each action.


MAP 6: North Foothills - Hogback and North Sky Focus Area, continued
New Trailhead
Upgrade Trailhead
OSMP Access Point
Close Access Point
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
Undesignated Trail
Close Undesignated Trail
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Close and Restore the Current Alignment
Other Government Land
OSMP Fee & Managed Property
OSMP Easement or Jointly Owned, County-Managed Land
North Trail Study Subareas
Trail changes are depicted conceptually. Actual trail alignments will differ.
0
0.5
Miles
NF13
NF14
NF15
NF16
NF17
NORTH SKY TRAIL
N. FOOTHILLS HWY
36
7
SCHNEIDER DRAW
HOGBACK RIDGE
Old Stage Rd
Lee Hill Dr
FOOTHILLS
Horseshoe
EAGLE
SHALE
MESA RESERVOIR
Foothills
HIDDEN VALLEY
Fourmile Canyon Creek
LEE HILL DR
N
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## *MAP 7: North Foothills - North Foothills Habitat Conservation Area (HCA) Off-Trail Permit Recommendations*

**ACTION NF18 Do not allow off-trail permits for the area inside the Joder loop trail for two years following the trail's construction. (Mahogany Loop)**

*Interests Met: 2**

### Primary Goal

» *Reduce impacts of new recreational opportunities on natural resources.*

### Driving Factors/Benefits

» *Provide best chance of successfully restoring undesignated trails within the loop and improve habitat conditions.*

» *Provide an opportunity for the restoration and revegetation of existing undesignated trails.*

» *Decrease the potential for creation of new undesignated trails.*

» *Minimize impacts on natural resources while providing new trail access.*

**ACTION NF19 Do not allow off-trail permits within the North Foothills HCA.**

*Interests Met: 2**

» *Off-trail permits not allowed in the North Foothills HCA except for areas west and north of Joder Ranch Trail and inside the Mahogany Loop.*

### Primary Goal

» *Reduce impacts of new recreation opportunities on natural resources outside of trail corridor.*

### Driving Factors/Benefits

» *Minimize impacts on natural resources while providing new trail access.*

» *Decrease the potential for creation of new undesignated trails.*

» *Decrease habitat fragmentation and increase protection of sensitive natural resources outside of the trail corridor. The new trail provides access to view and enjoy the HCA.*

**ACTION NF20 After City Council approval of the North TSA Plan, staff will return to the OSBT with monitoring recommendations for the North Foothills HCA, the North Sky Trail and the Joder property.**

### Primary Goal

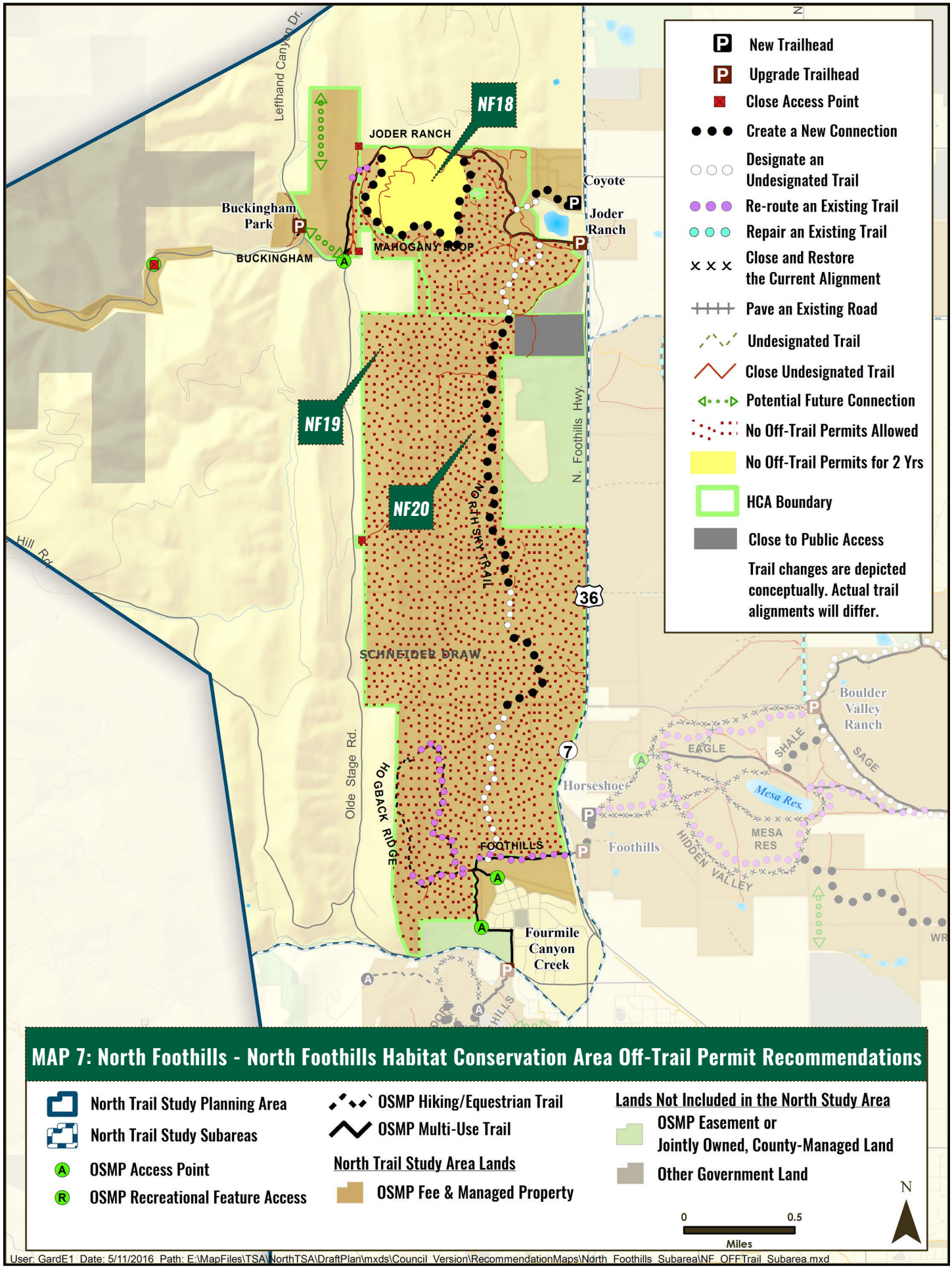
» *Have staff endeavor to develop and bring back to the OSBT an ecological monitoring program for the North Sky Trail and the Joder property in light of the important ecological qualities of these properties.*

### Driving Factors/Benefits

» *Action added by OSBT during approval of the draft plan.*

*Prairie rattlesnake, a focal species in the North Trail Study Area. © Greg Joder*

*See Appendix D for a list of interests met by each action.


New Trailhead
Upgrade Trailhead
Close Access Point
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Repair an Existing Trail
Close and Restore the Current Alignment
Pave an Existing Road
Undesignated Trail
Close Undesignated Trail
Potential Future Connection
No Off-Trail Permits Allowed
No Off-Trail Permits for 2 Yrs
HCA Boundary
Close to Public Access
Trail changes are depicted conceptually. Actual trail alignments will differ.
NF18
NF19
NF20
JODER RANCH
MAHOGANY LOOP
BUCKINGHAM
Buckingham Park
Coyote
Joder Ranch
Lefthand Canyon Dr.
N. Foothills Hwy.
NORTH SKY TRAIL
SCHNEIDER DRAW
HOGBACK RIDGE
Olde Stage Rd.
Hill Rd.
36
7
Boulder Valley Ranch
EAGLE
SHALE
SAGE
Horseshoe
Mesa Res.
MESA RES
HIDDEN VALLEY
Foothills
FOOTHILLS
Fourmile Canyon Creek
MAP 7: North Foothills - North Foothills Habitat Conservation Area Off-Trail Permit Recommendations
North Trail Study Planning Area
North Trail Study Subareas
OSMP Access Point
OSMP Recreational Feature Access
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
North Trail Study Area Lands
OSMP Fee & Managed Property
Lands Not Included in the North Study Area
OSMP Easement or Jointly Owned, County-Managed Land
Other Government Land
0
0.5
Miles
N
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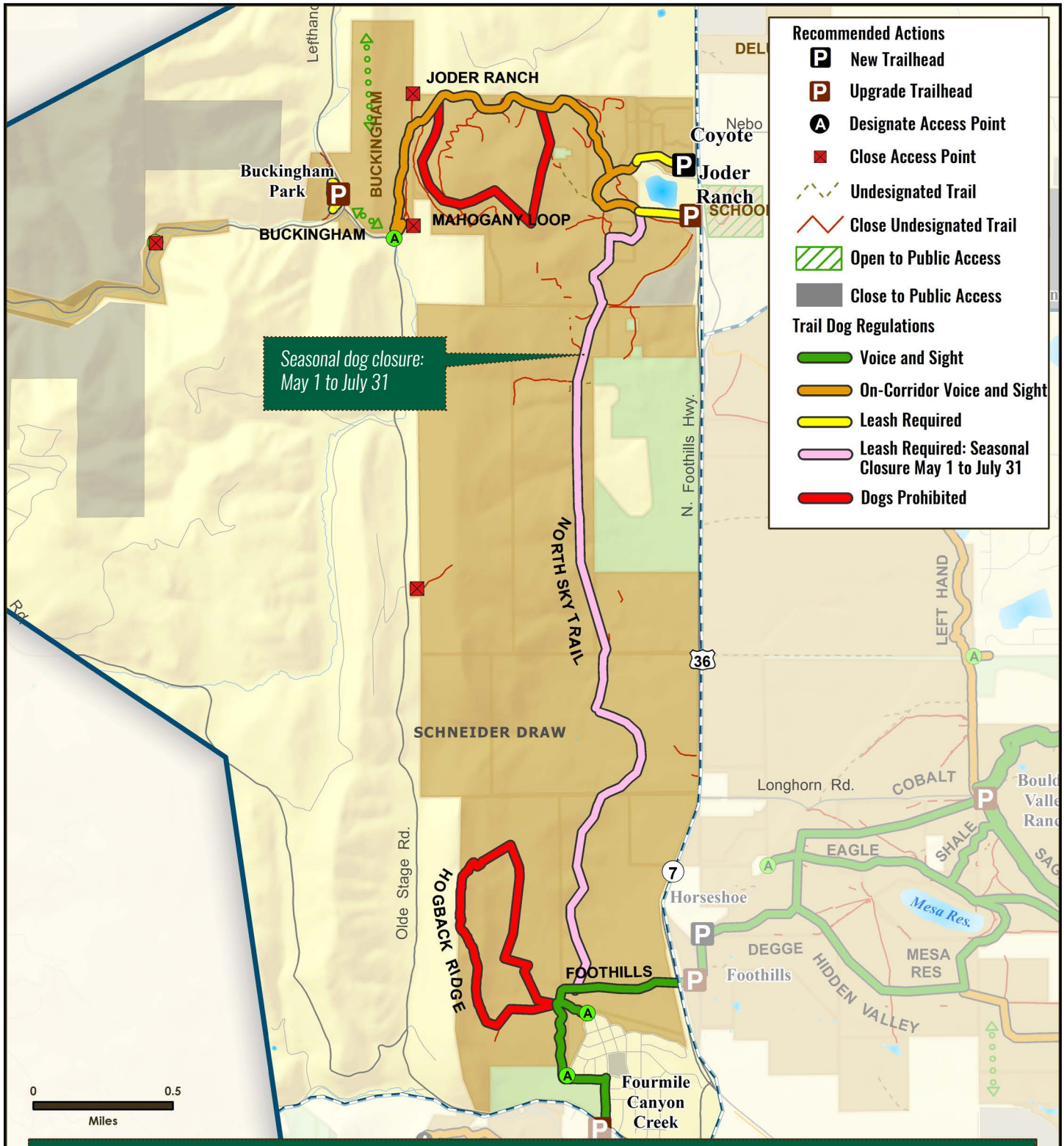
## MAP 8: North Foothills - Trail-Based Dog Regulations

| TRAIL NAME | DOG REGULATION |
|---|---|
| **New Trails** | |
| Joder Loop Trail (Mahogany Loop) | Dogs Prohibited |
| Connector Trail from Coyote Trailhead to Interim Joder Trail (Joder Ranch Trail) | On-Corridor Voice and Sight<br><br>Leash Required (Coyote Trailhead leash extent) |
| Joder connector trail (North Sky Trail) | Leash Required (August 1 - April 30)<br><br>Dogs Prohibited (May 1 - July 31) |
| **Existing and Re-routed Trails with New Dog Regulations** | |
| Trails serving the Buckingham Park picnic area | Leash Required |
| Interim Joder Trail (Joder Ranch Trail) | On-Corridor Voice and Sight<br><br>Leash Required (Joder Ranch Trailhead leash extent) |
| **Existing and Re-routed Trails with No Changes to Existing Dog Regulations** | |
| Hogback Trail with re-routed section | Dogs Prohibited |
| Foothills North Trail with re-routed section | Voice and Sight |

***There are no new recommended off-trail dog regulations in this subarea.***

© Michael Morton




## MAP 8: North Foothills - Trail-Based Dog Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- Potential Future Connections
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands

- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area

- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

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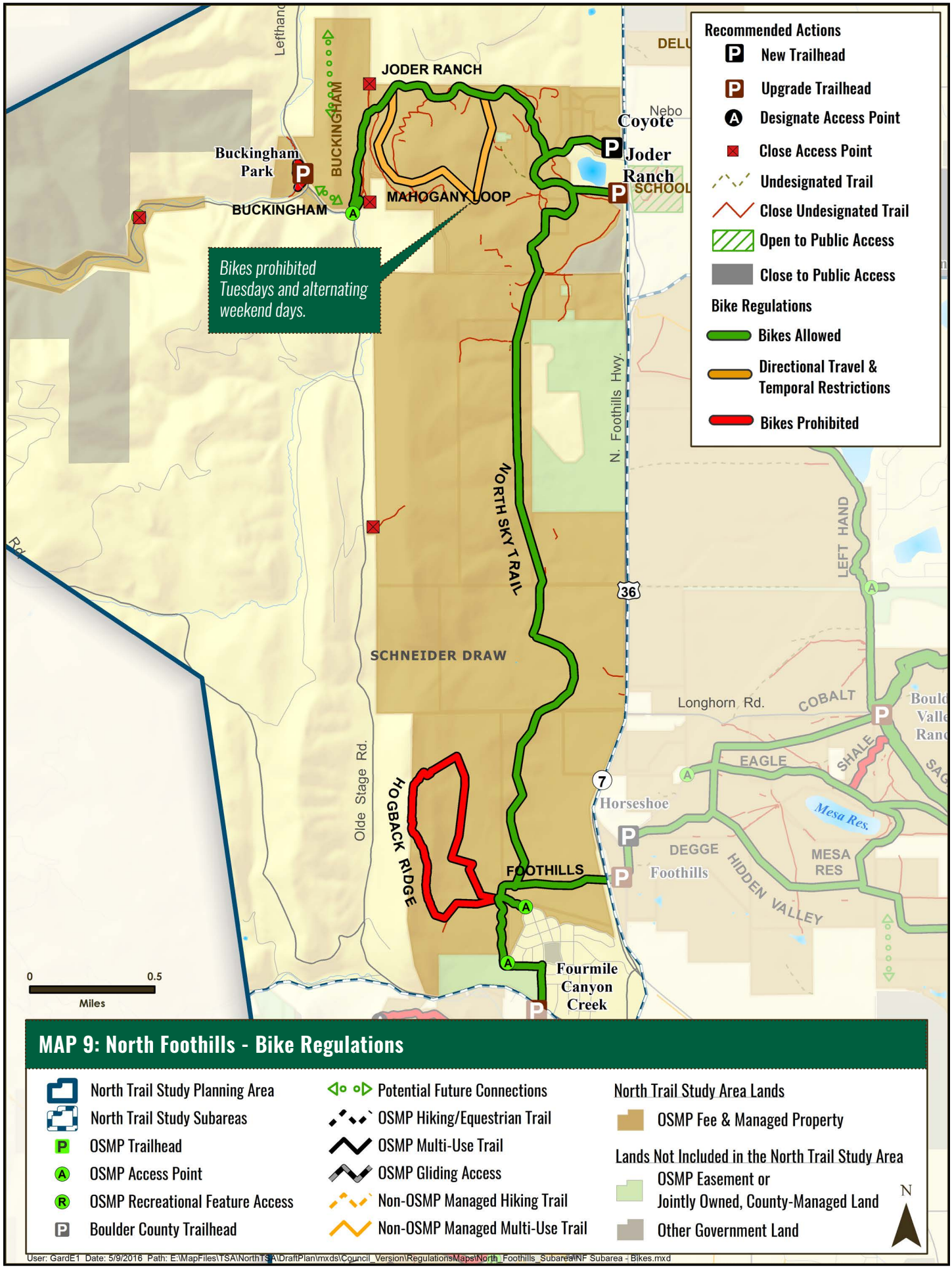
## MAP 9: North Foothills - Bike Regulations

| TRAIL NAME | BIKE REGULATION |
|---|---|
| **New Trails** | |
| Western Joder Loop Trail (Mahogany Loop) | Bikes allowed with directional and temporal restrictions. Bikes prohibited Tuesdays and alternating weekend days. Directional travel will alternate every two weeks. |
| Connector Trail from Coyote Trailhead to Interim Joder Trail (Joder Ranch Trail) | Bikes Allowed |
| Joder connector trail (North Sky Trail) | Bikes Allowed |
| **Existing and Re-routed Trails with No Changes to Existing Bike Regulations** | |
| Trails serving the Buckingham picnic area | Bikes Prohibited |
| Interim Joder Trail (Joder Ranch Trail) | Bikes Allowed |
| Hogback Trail with re-routed section | Bikes Prohibited |
| Foothills North Trail with re-routed section | Bikes Allowed |




## MAP 9: North Foothills - Bike Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- Potential Future Connections
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands

- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area

- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

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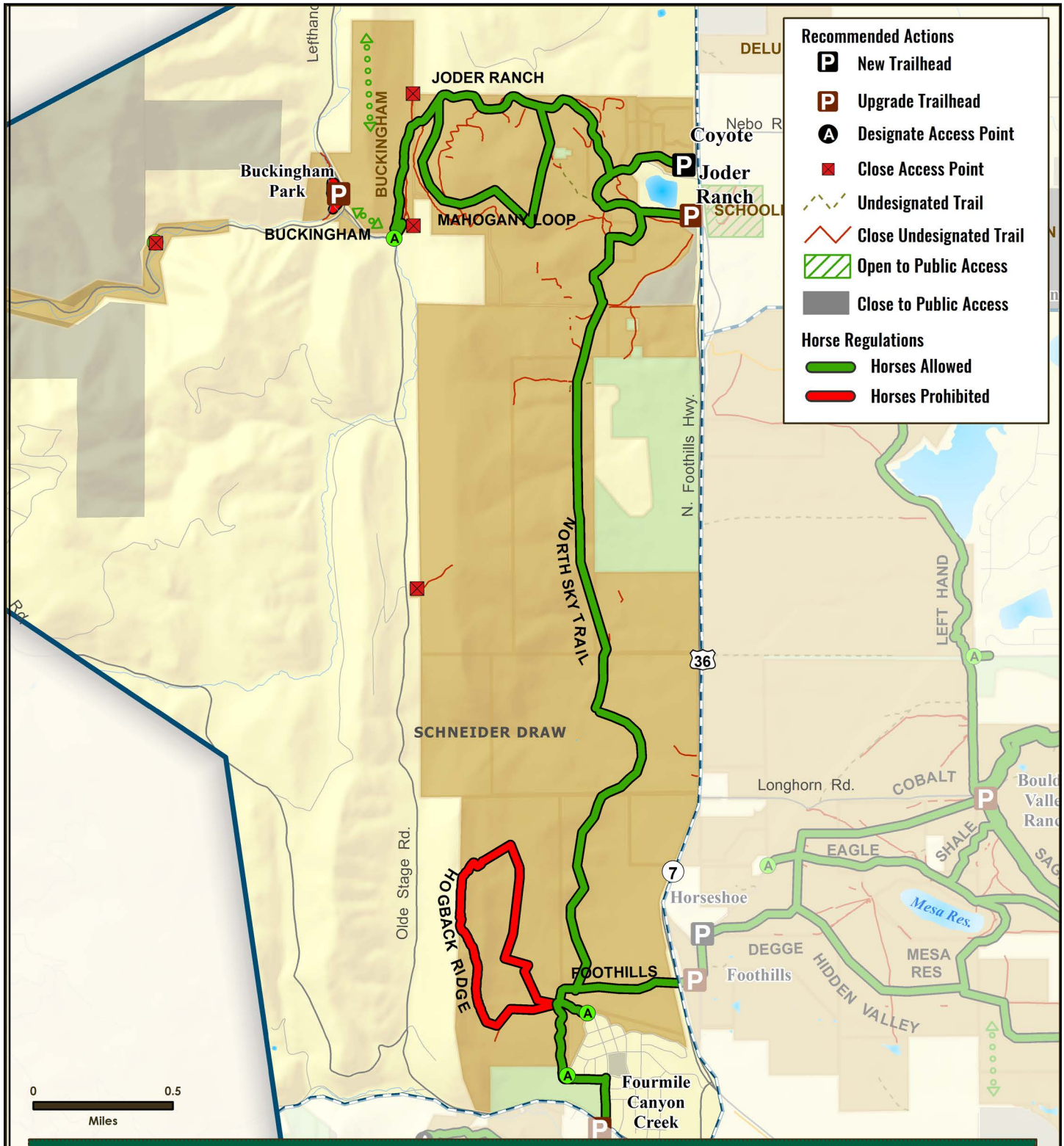
## MAP 10: North Foothills - Trail-Based Horse Regulations

| TRAIL NAME | HORSE REGULATION |
|---|---|
| **New Trails** | |
| *Western Joder Loop Trail (Mahogany Loop)* | *Horses Allowed* |
| *Connector Trail from Coyote Trailhead to Interim Joder Trail (Joder Ranch Trail)* | *Horses Allowed* |
| *Joder connector trail (North Sky Trail)* | *Horses Allowed* |
| **Existing and Re-routed Trails with New Horse Regulations** | |
| *Trails serving the Buckingham picnic area* | *Horses Prohibited* |
| *Hogback Trail with re-routed section* | *Horses Prohibited* |
| **Existing and Re-routed Trails with No Changes to Existing Horse Regulations** | |
| *Interim Joder Trail (Joder Ranch Trail)* | *Horses Allowed* |
| *Foothills North Trail with re-routed section* | *Horses Allowed* |

**New Off-Trail Horse Regulations**

*Horses prohibited off-trail in the North Foothills Habitat Conservation Area (exceptions listed below)*

- *Horses allowed off-trail on the Buckingham property and the Joder property west and north of the Joder Ranch Trail.*
- *Horses allowed off-trail inside the Joder Loop Trail (Mahogany Loop) following a two-year restriction of off-trail access to allow for the revegetation of undesignated trails.*




## MAP 10: North Foothills - Trail-Based Horse Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- Potential Future Connections
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

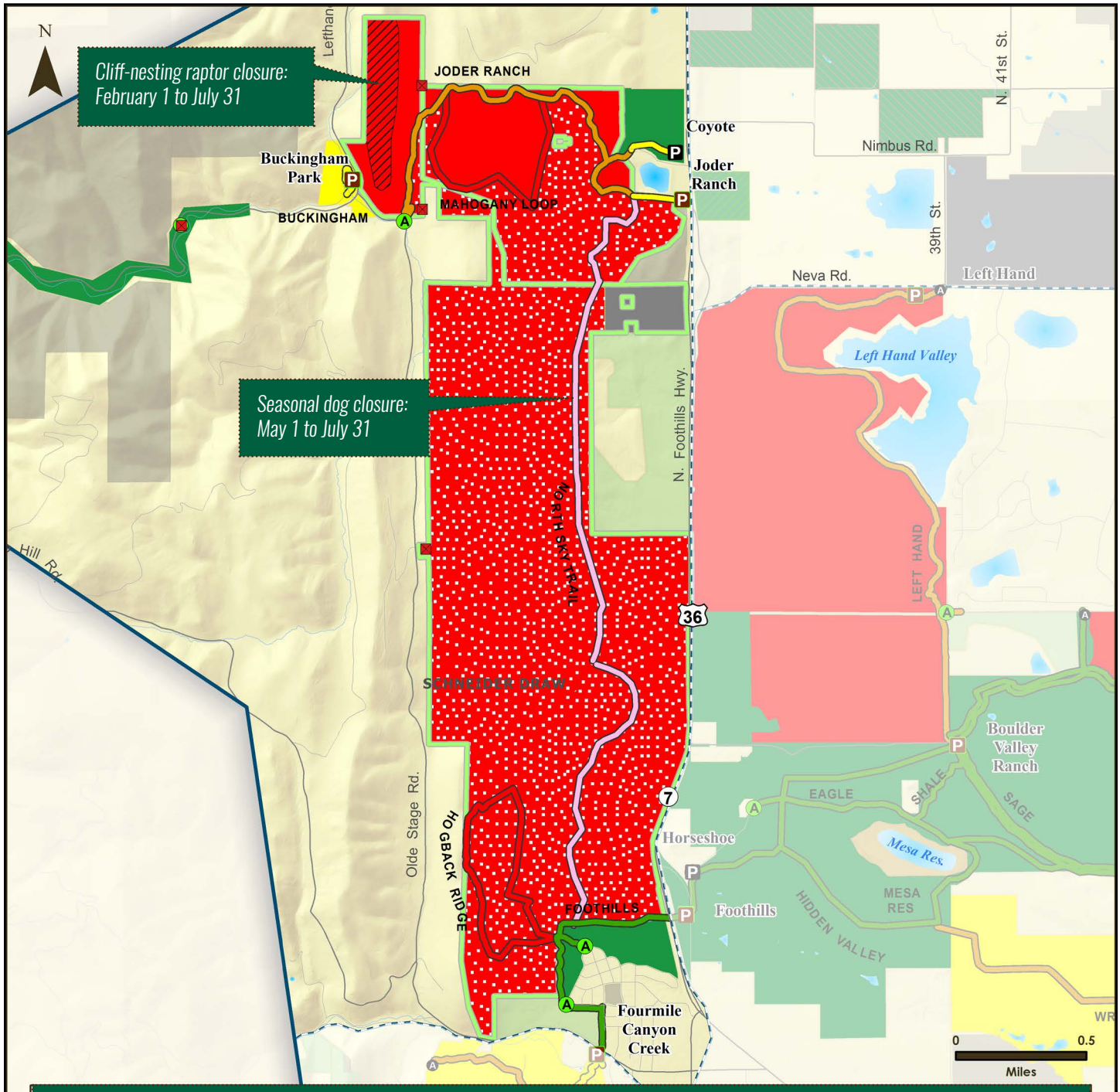
Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

User: GardE1 Date: 5/9/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RegulationsMaps\North_Foothills_SubareaNF Subarea - Horses.mxd

## MAP 11: North Foothills - Regulatory Settings

*Visitor access regulations pertain to the management of activities both on- and off-trail. The regulatory settings map includes on-trail and off-trail specific regulations where public access is restricted year-round, areas with seasonal wildlife closures and on-trail and off-trail dog regulations.*




## MAP 11: North Foothills - Regulatory Settings

- North Trail Study Planning Area
- North Trail Study Subareas
- HCA Boundary
- OSMP Trailhead
- OSMP Access Point

**Visitor Access Regulations**

- New Trailhead
- New Access Point
- Close Access Point

**Trail Dog Regulations**

- Voice and Sight
- On-Corridor Voice and Sight
- Leash Required
- Leash Required: Seasonal Closure May 1 - July 31
- Dogs Prohibited
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

**Dog Regulation Areas**

- Voice and Sight Control
- Leash Required
- Dogs Prohibited
- Open with Seasonal Closure (May 1-July 31)
- Seasonal Raptor Closure
- Closed to Off-Trail Public Access
- Closed to Public Access

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*Background photo: Lefthand Trailhead.*

# North TSA Plan Recommendations

## Boulder Valley Ranch

## MAP 12: Boulder Valley Ranch - Management Area Designations

» *Designate Lappin property (**B1**), IBM open space easement property (**B2**), Hart-Jones Exchange property (**B3**) and Palo Park property (**B4**) as Natural Areas. Limit public access to on-trail travel on IBM open space easement property.*

### Primary Goal

» *Implement VMP direction to provide management area designations for properties without designations to guide management actions.*

### Driving Factors/Benefits

*Lappin Property*

» *Conserve natural resources while allowing access for low-impact passive recreation.*

» *Maintain habitat effectiveness of Lappin Pond in supporting sensitive native fish species.*

» *Protect important plant and aquatic species.*

» *Increase protection of shale barrens habitat and pond.*

» *Conserve highly suitable habitat for North TSA focal wildlife species.*

*IBM open space easement property*

» *Support efforts of creating the IBM connector trail.*

» *Create management regulations to implement terms of the easement and respond to the property owner's interests.*

*Hart-Jones Exchange property*

» *Protect riparian areas.*

» *Protect habitat for rare plants.*

*Palo Park property*

» *Protect riparian areas of Fourmile Canyon Creek.*

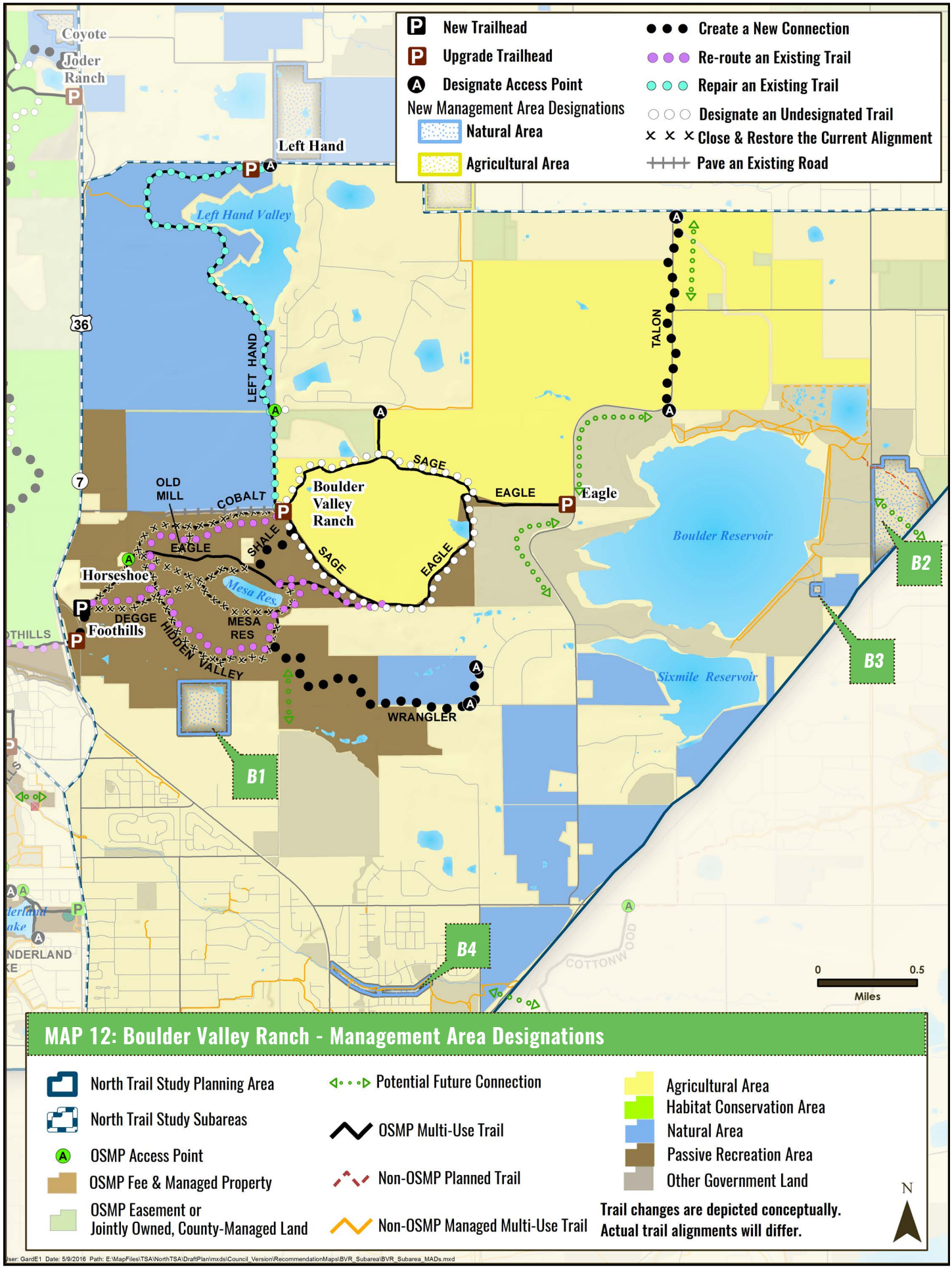
» *Property includes Greenway path.*

**ACTIONS B1 to B4**

**Provide management area designations for properties without designations to guide management actions.**

*Interests Met: 4**

**See Appendix D for a list of interests met by each action.*




## MAP 12: Boulder Valley Ranch - Management Area Designations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Access Point
- OSMP Fee & Managed Property
- OSMP Easement or Jointly Owned, County-Managed Land
- Potential Future Connection
- OSMP Multi-Use Trail
- Non-OSMP Planned Trail
- Non-OSMP Managed Multi-Use Trail
- Agricultural Area
- Habitat Conservation Area
- Natural Area
- Passive Recreation Area
- Other Government Land

Trail changes are depicted conceptually. Actual trail alignments will differ.

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## MAP 13 : Boulder Valley Ranch - Subarea-Wide Recommendations

**ACTIONS B5 to B9**
**Collaborate with partner agencies to create regional trail connections.**

*Interests Met: 5**

- *As opportunities arise, collaborate with partner agencies to create the following regional trail connections in a way that minimizes natural resource impacts.*
- *(**B5**) City of Boulder's Area III park site to the North TSA.*
- *(**B6**) A Boulder-to-Lyons trail connection including the efforts of the Rocky Mountain Greenway Project.*
- *(**B7**) IBM Connector Trail (construction pending).*
- *(**B8**) Fourmile Canyon Creek Trail underpass to Cottonwood Trail (construction pending).*
- *(**B9**) Eagle Trail to the planned Boulder Reservoir Trail.*

### Primary Goal

- *Enhance regional connectivity.*

### Driving Factors/Benefits

- *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*
- *Increase coordination/consistency among OSMP and partner agencies.*

*Specific to Area III park site (**B5**):*

- *Collaborate with other partner agencies to provide a north-south trail connection from northern Boulder neighborhoods to North TSA.*
- *Increase accessibility for neighbors to the North TSA.*

*Specific to Eagle Trail to Boulder Reservoir Trail connection (**B9**):*

- *Keep trail close to 51st and 55th streets and in existing transportation corridors as much as is feasible.*

**ACTION B10 Provide public access to portions of Lappin, Lousberg, Papini and B.L.I.P. properties while protecting sensitive natural resources.**

*Interests Met: 2**

- *Protect aquatic and wetland resources in and around ponds on these properties by prohibiting public access to the ponds.*

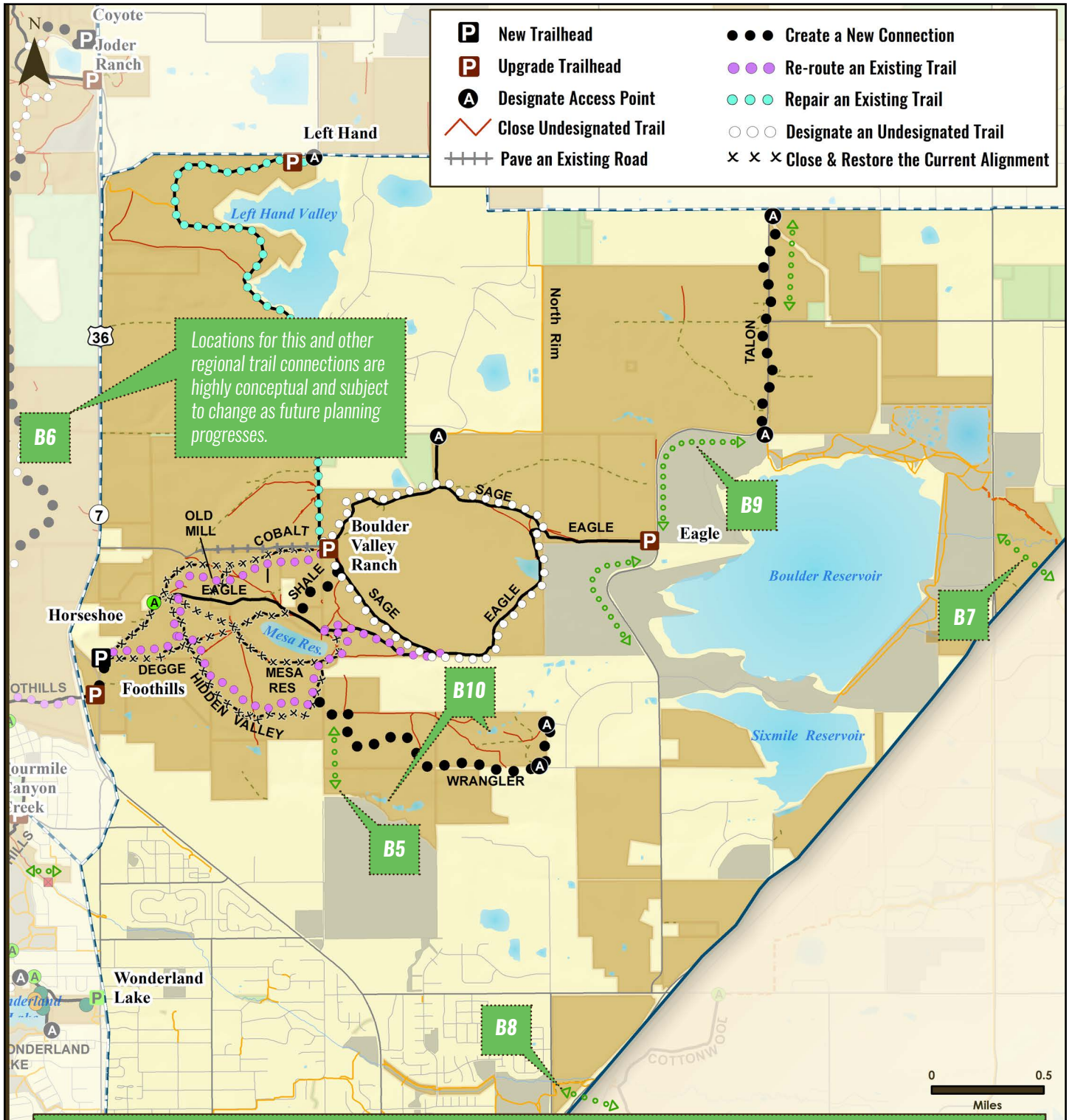
### Primary Goal

- *Establish areas where visitor access is not allowed for important aquatic sites.*

### Driving Factors/Benefits

- *Protect aquatic habitats that are being managed for species of concern, including native fish.*
- *Explain reasoning for restricting access to ponds by using signs with positive messaging about sensitive aquatic resources in order to promote compliance.*
- *Conserve highly suitable habitat for North TSA focal wildlife species.*

*See Appendix D for a list of interests met by each action.




## MAP 13: Boulder Valley Ranch - Subarea-Wide Recommendations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point

**Trail changes are depicted conceptually. Actual trail alignments will differ.**

- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Non-OSMP Planned Trail
- Non-OSMP Managed Multi-Use Trail
- Undesignated Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

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## MAP 14: Boulder Valley Ranch - East Beech and Lefthand Focus Area

### Action B11 Designate access point for where Lefthand Trail connects to Neva Road.

*Interests Met: 4**

**Primary Goal**

» *Designate an access point that is served by a designated trail.*

**Driving Factors/Benefits**

» *Provide trail connectivity directly to Neva Road.*

» *Increase safety.*

### Action B12 Bring Lefthand Trailhead up to standards.

*Interests Met: 4**

» *Include horse trailer parking at Lefthand Trailhead.*

**Primary Goal**

» *Include horse trailer parking in the existing trailhead space.*

**Driving Factors/Benefits**

» *Ensure consistent and basic facilities at all trailheads based on visitation numbers and facility standards.*

» *Replace infrastructure that is in need of repair.*

» *Improve sustainability and safety.*

### Action B13 Improve Lefthand Trail.

*Interests Met: 5**

**Primary Goal**

» *Improve the physical sustainability of the trail to better accommodate visitors and protect resources.*

**Driving Factors/Benefits**

» *Retain a north-south connection to Neva Road that improves trail sustainability and helps conserve and reduce impacts to sensitive natural resources.*

» *Conserve large habitat blocks.*

» *Conserve highly suitable habitat for North TSA focal wildlife species.*

### Action B14 Designate a connector trail from Lefthand Trail to the Lake Valley Estates neighborhood.

*Interests Met: 3**

**Primary Goal**

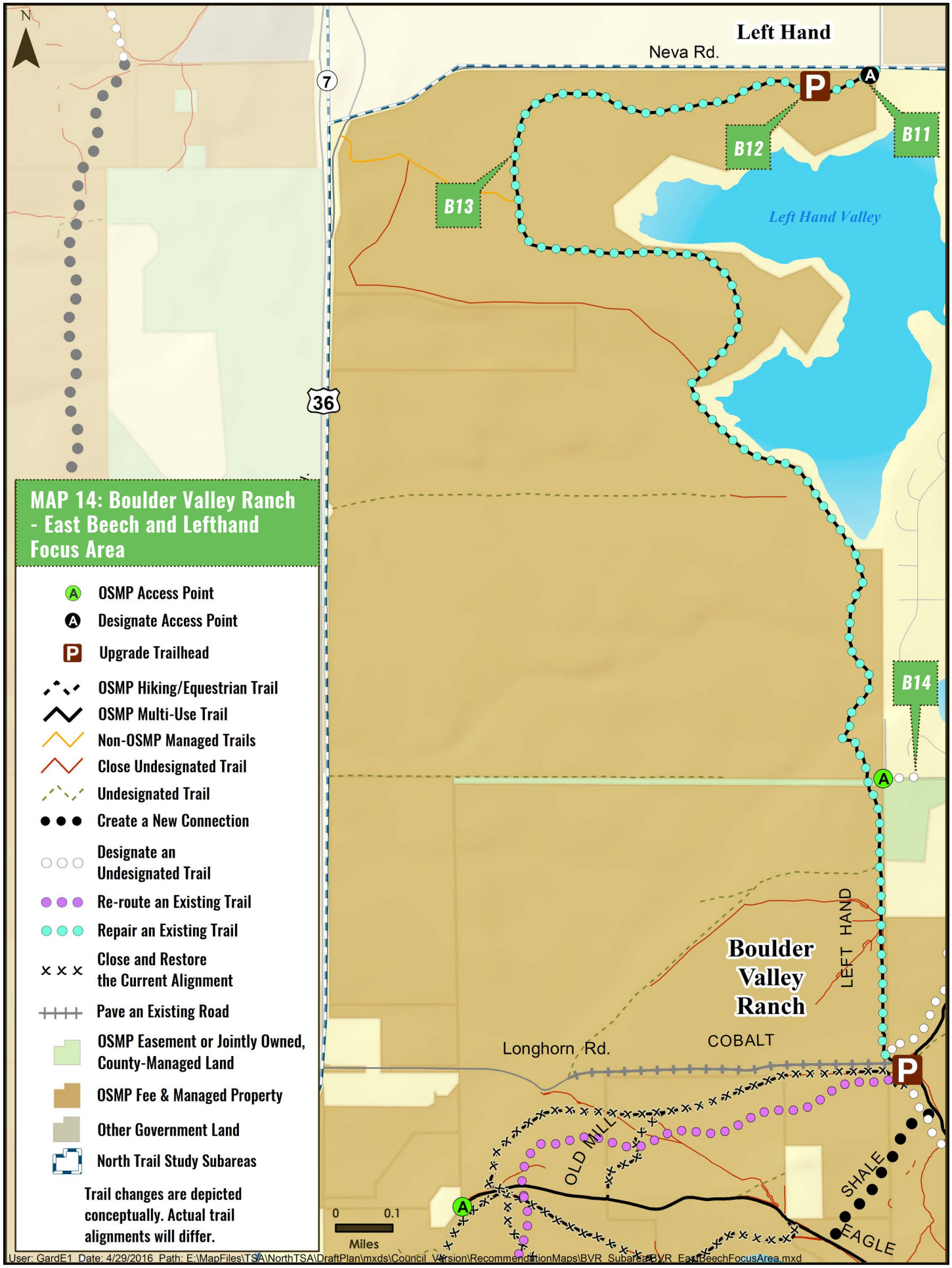
» *Designate and manage an existing undesignated trail that serves to connect a neighborhood to the North TSA.*

**Driving Factors/Benefits**

» *Improve access to North TSA trail system.*

» *Consolidate undesignated access points and trails.*

*See Appendix D for a list of interests met by each action.


N
Left Hand
Neva Rd.
7
36
B11
B12
B13
B14
Left Hand Valley
Boulder Valley Ranch
LEFT HAND
Longhorn Rd.
COBALT
OLD MILL
SHALE
EAGLE
0
0.1
Miles
MAP 14: Boulder Valley Ranch - East Beech and Lefthand Focus Area
OSMP Access Point
Designate Access Point
Upgrade Trailhead
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
Non-OSMP Managed Trails
Close Undesignated Trail
Undesignated Trail
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
Repair an Existing Trail
Close and Restore the Current Alignment
Pave an Existing Road
OSMP Easement or Jointly Owned, County-Managed Land
OSMP Fee & Managed Property
Other Government Land
North Trail Study Subareas
Trail changes are depicted conceptually. Actual trail alignments will differ.
User: GardE1 Date: 4/29/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\BVR_SubareaBVR_EastBeechFocusArea.mxd

## MAP 15: Boulder Valley Ranch - Eagle and Boulder Reservoir Focus Area

### Action B15 Create a connection via the Boulder Reservoir to Niwot Road. (Talon Trail)

*Interests Met: 7**

» *Create a regional trail connection in a way that minimizes natural resource impacts. Work with partner agencies to determine the most feasible trail alignment with a preference for an alignment along 55th Street.*

#### Primary Goal

» *Increase connections between North TSA and other regional destinations. Enhance local trail connectivity and the creation of safe road crossing and trail connections.*

#### Driving Factors/Benefits

» *Provide increased connectivity.*

» *Allow visitors a safe alternative to current connections along roadways.*

» *By siting a trail on road right of way; maintain habitat effectiveness for North TSA focal wildlife species like Northern Harrier and plains topminnow.*

» *Provide greater opportunities for visitors.*

» *Increase coordination/consistency among OSMP and partner agencies.*

### Action B16 Bring Eagle Trailhead up to standards.

*Interests Met: 5**

» *Include horse trailer parking at Eagle Trailhead.*

#### Primary Goal

» *Provide designated horse trailer parking.*

#### Driving Factors/Benefits

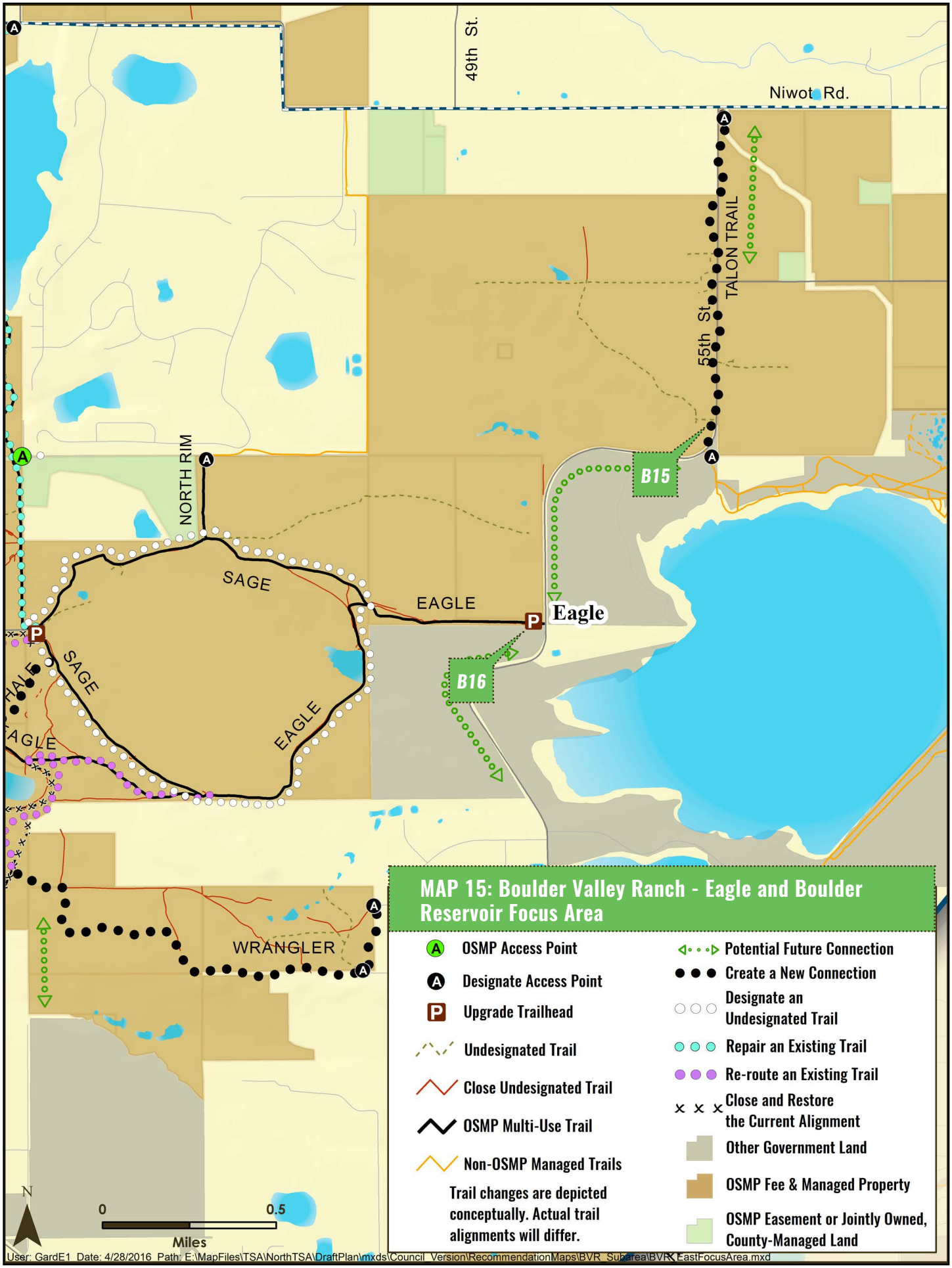
» *Reconfigure trailhead to improve safety.*

» *Ensure consistent and basic facilities at all trailheads based on visitation numbers and facility standards.*

» *Replace infrastructure that is in need of repair.*

*Eagle Trailhead, to be upgraded to include horse trailer parking.*

*See Appendix D for a list of interests met by each action.


49th St.
Niwot Rd.
TALON TRAIL
55th St
NORTH RIM
SAGE
EAGLE
Eagle
B15
B16
SAGE
EAGLE
WRANGLER
N
0
0.5
Miles
MAP 15: Boulder Valley Ranch - Eagle and Boulder Reservoir Focus Area
OSMP Access Point
Designate Access Point
Upgrade Trailhead
Undesignated Trail
Close Undesignated Trail
OSMP Multi-Use Trail
Non-OSMP Managed Trails
Trail changes are depicted conceptually. Actual trail alignments will differ.
Potential Future Connection
Create a New Connection
Designate an Undesignated Trail
Repair an Existing Trail
Re-route an Existing Trail
Close and Restore the Current Alignment
Other Government Land
OSMP Fee & Managed Property
OSMP Easement or Jointly Owned, County-Managed Land
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## MAP 16: Boulder Valley Ranch - Degge Focus Area

### Action B17 Bring Foothills Trailhead up to standards.

*Interests Met: 6**

#### Primary Goal

» *Improve parking configuration to allow cars to safely back out of parking spaces.*

#### Driving Factors/Benefits

» *Ensure consistent and basic facilities at all trailheads based on visitation numbers and facility standards.*

» *Replace infrastructure that is in need of repair.*

» *Reconfigure trailhead to improve safety.*

### Action B18 Add a new trailhead at the Degge Trail access point. (Horseshoe Trailhead)

*Interests Met: 2**

» *Provide additional parking capacity and horse trailer parking.*

#### Primary Goal

» *Add horse trailer parking and provide additional parking facilities at the Degge Trail access point.*

#### Driving Factors/Benefits

» *Provide a new trailhead in a location that would minimize impacts to resources.*

» *Improve capacity for horse trailer parking.*

### Action B19 Create a trail connection between Foothills and Degge trails, re-route Degge Trail.

*Interests Met: 5**

» *Provide a trail connection from Foothills Trail to re-routed west end of Degge Trail.*

#### Primary Goal

» *Improve visitor experience, trail connectivity and offer a safer way for visitors to connect from the Foothills Trail to the Boulder Valley Ranch/Mesa Reservoir area trails.*

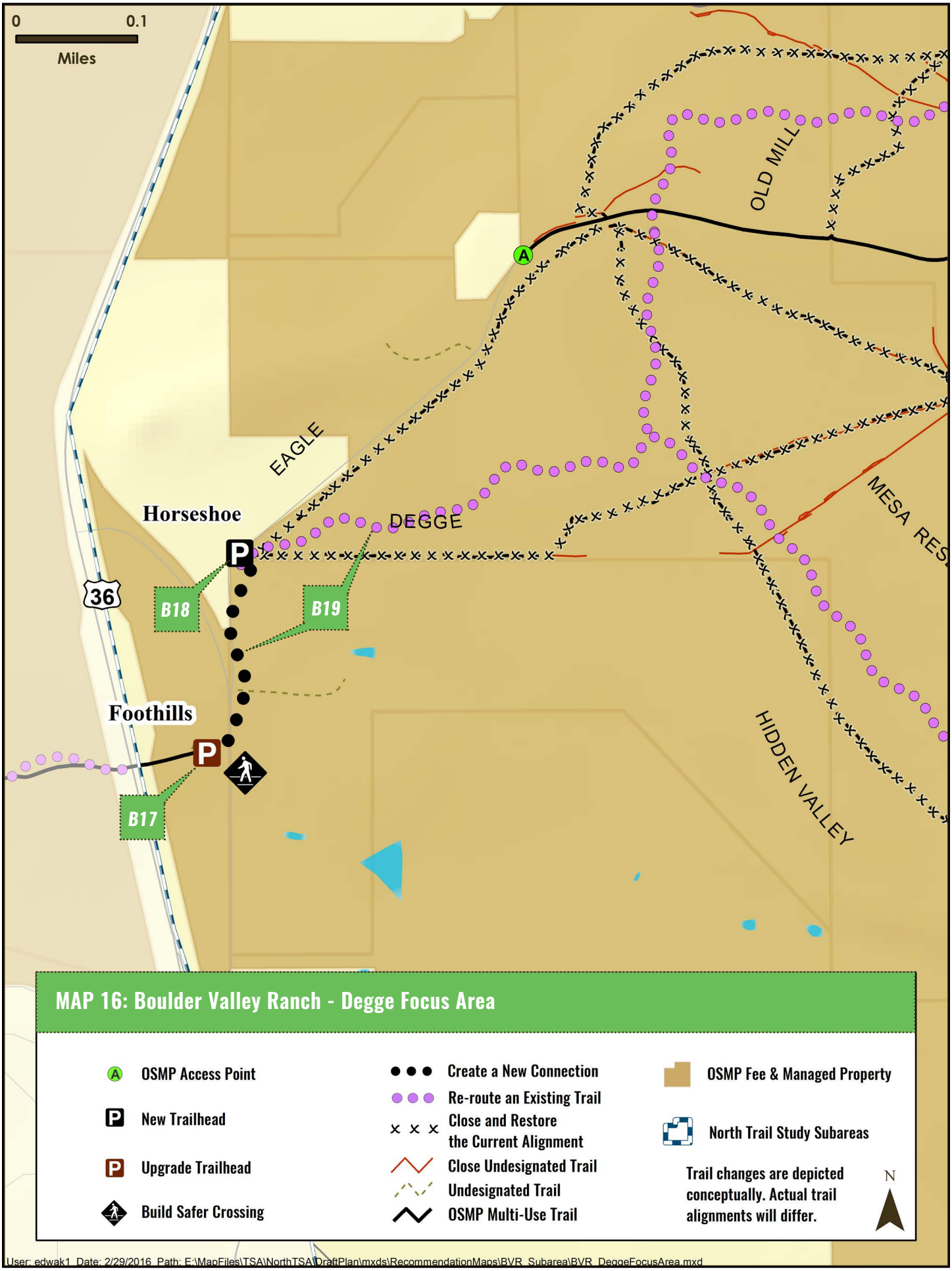
#### Driving Factors/Benefits

» *Improve trail connectivity and safety of access.*

» *Replace high-density, low-quality trails with fewer, high-quality, sustainable trails.*

*Foothills Trailhead, to be upgraded to improve parking circulation and safety.*

*See Appendix D for a list of interests met by each action.




## MAP 16: Boulder Valley Ranch - Degge Focus Area

- OSMP Access Point
- New Trailhead
- Upgrade Trailhead
- Build Safer Crossing
- Create a New Connection
- Re-route an Existing Trail
- Close and Restore the Current Alignment
- Close Undesignated Trail
- Undesignated Trail
- OSMP Multi-Use Trail
- OSMP Fee & Managed Property
- North Trail Study Subareas

Trail changes are depicted conceptually. Actual trail alignments will differ.

N

User: edwak1 Date: 2/29/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\RecommendationMaps\BVR_Subarea\BVR_DeggeFocusArea.mxd

## MAP 17: Boulder Valley Ranch - Mesa Reservoir Focus Area

### Action B20 Replace existing trails north of Mesa Reservoir with new trail connections.

*Interests Met: 5**

» *Replace Old Mill and Cobalt trails with a single new trail and replace western section of Eagle Trail and steep, downhill section of Eagle Trail with new re-routed connections.*

**Primary Goal**

» *Replace high-density, low-quality trails with fewer, high-quality, sustainable trails to improve visitor experience.*

**Driving Factors/Benefits**

» *Use terrain effectively to create a better visitor experience and improve biking access.*

» *Where possible, relocate trail sections that run through prairie dog colonies to maintain or improve prairie rattlesnake highly suitable habitat and manage public safety issues related to rattlesnakes.*

» *Follow current general trail alignments in reconstruction to retain quality and size of grassland habitats.*

### Action B21 Replace undesignated trails through sensitive resources with a single trail. (Shale Trail)

*Interests Met: 4**

» *Provide a sustainable connection with Sage Trailhead, by replacing undesignated trails through shale barrens and rare plant habitat with one new designated trail with educational signs for pedestrians and equestrians north of Mesa Reservoir.*

**Primary Goal**

» *Consolidate and replace unsustainable undesignated trails with a single designated trail to better protect shale barrens and rare plants, habitat and populations.*

**Driving Factors/Benefits**

» *Reduce the number and extent of undesignated trails.*

» *Provide an opportunity for the public to learn about the unique resources of the site.*

### Action B22 Provide nature-viewing access at Mesa Reservoir.

*Interests Met: 5**

**Primary Goal**

» *Create recreation opportunities specifically for visitors looking for a quiet experience.*

**Driving Factors/Benefits**

» *Provide access to view wetland resources.*

### Action B23 Replace existing trails with a new trail connection south of Mesa Reservoir.

*Interests Met: 5**

» *Replace southern sections of Mesa Reservoir Trail and the Hidden Valley Trail with a new single trail connection.*

**Primary Goal**

» *Replace high-density, low-quality trails with fewer, high-quality, sustainable trails to improve visitor experience.*

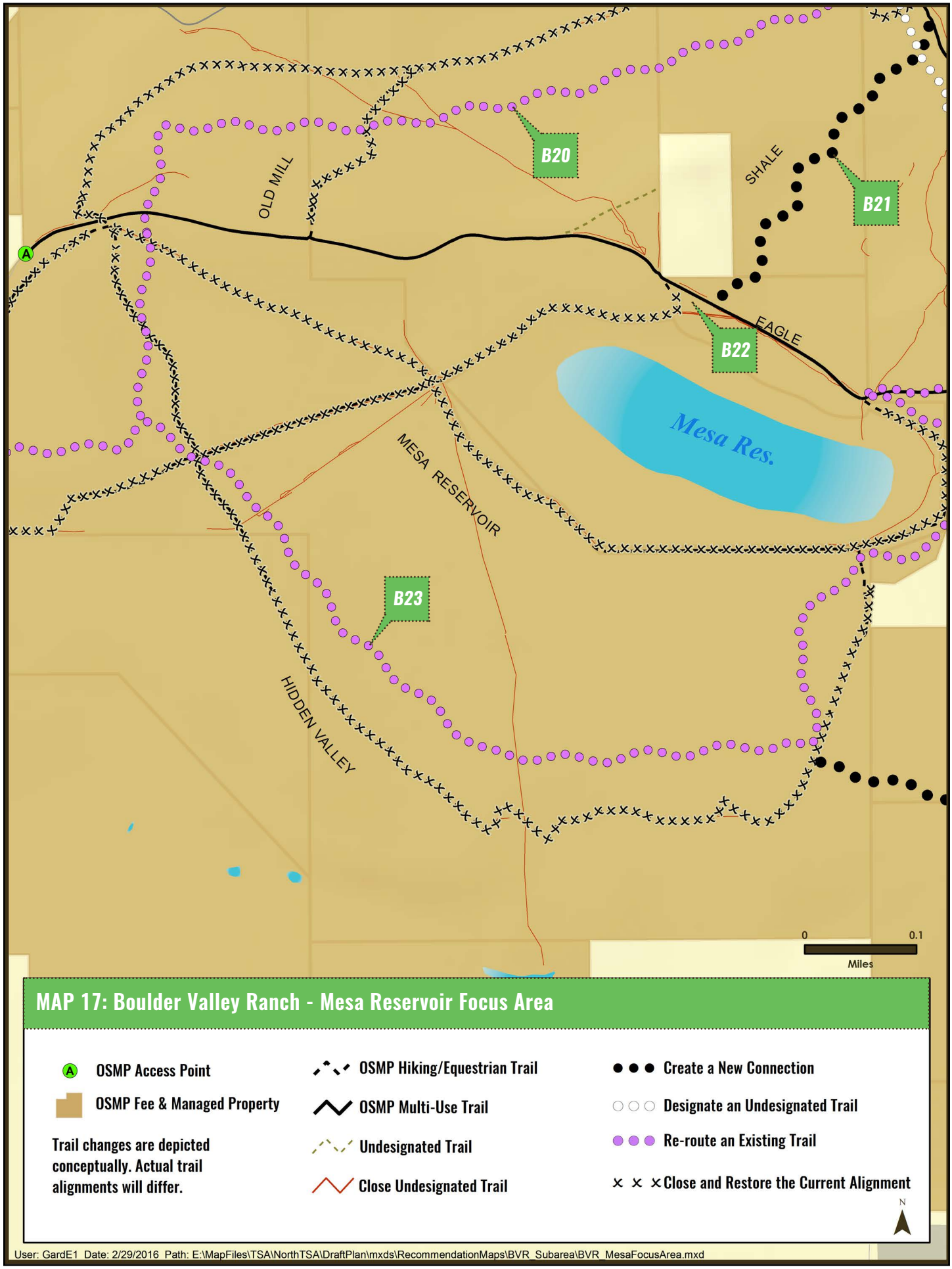
**Driving Factors/Benefits**

» *Use terrain effectively to create a better visitor experience and improve biking access.*

» *Follow current general trail alignments in reconstruction to retain quality and size of grassland habitats.*

» *Enhance education and interpretive offerings in the area.*

**See Appendix D for a list of interests met by each action.*




## MAP 17: Boulder Valley Ranch - Mesa Reservoir Focus Area

- A OSMP Access Point
- OSMP Fee & Managed Property

Trail changes are depicted conceptually. Actual trail alignments will differ.

- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Undesignated Trail
- Close Undesignated Trail
- Create a New Connection
- Designate an Undesignated Trail
- Re-route an Existing Trail
- Close and Restore the Current Alignment

User: GardE1 Date: 2/29/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\RecommendationMaps\BVR_Subarea\BVR_MesaFocusArea.mxd

## MAP 18: Boulder Valley Ranch - South Boulder Valley Ranch Focus Area

### Action B24 Pave Longhorn Road.

*Interests Met: 2**

» *Pave or resurface Longhorn Road with an alternative permeable surface material.*

**Primary Goal**

» *Provide a more sustainable and safer surface, to improve access to Sage Trailhead.*

**Driving Factors/Benefits**

» *Existing gravel roadway is difficult to maintain and in poor condition.*

» *Roadway surface is eroded and can't be effectively resurfaced with gravel.*

### Action B25 Bring Sage (BVR) Trailhead up to standards.

*Interests Met: 5**

» *Improve restroom facilities.*

**Primary Goal**

» *Provide better facilities to benefit visitors.*

**Driving Factors/Benefits**

» *Reconfigure trailhead to improve safety.*

» *Ensure consistent and basic facilities at all trailheads based on visitation numbers and facility standards.*

» *Replace infrastructure that is in need of repair.*

» *Update restrooms to bring them up to standards.*

### Action B26 Improve Americans with Disabilities Act (ADA) access on Eagle and Sage trails.

*Interests Met: 4**

**Primary Goal**

» *Retain and improve wheelchair access to the Eagle and Sage loop at BVR.*

**Driving Factors/Benefits**

» *These trails are suitable for providing improved ADA access due to the trail width and design.*

» *The grade and out-slope are appropriate, but some areas will need to be improved.*

### Action B27 Provide a parallel single track trail at BVR.

*Interests Met: 3**

» *Designate and slightly re-route in some locations one parallel single track tread adjacent to the Eagle and Sage loop at BVR.*

**Primary Goal**

» *Provide improved visitor experience and safety while reducing visitor conflict by providing a managed alternate trail tread adjacent to existing trail.*

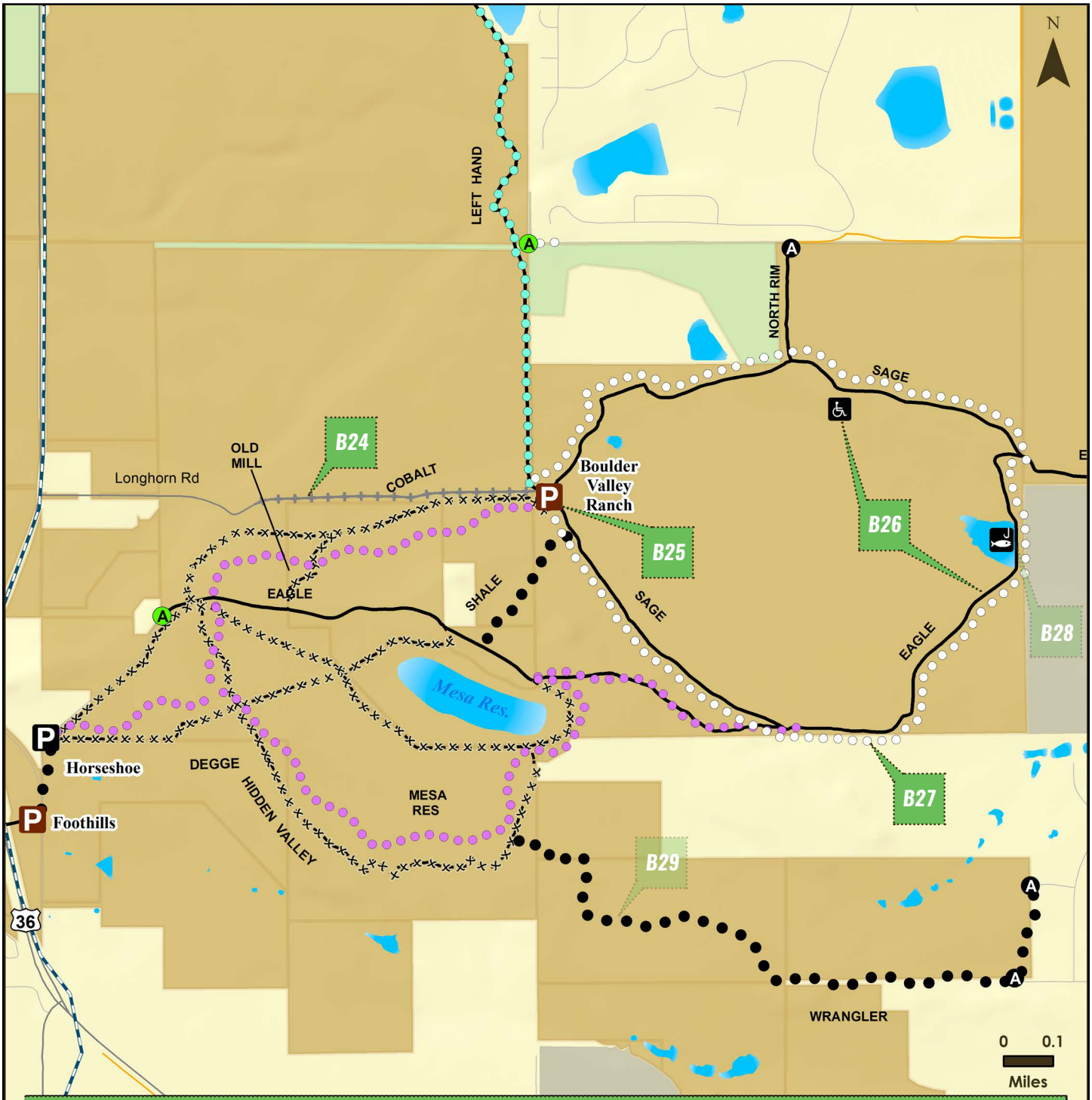
**Driving Factors/Benefits**

» *Improve visitor experience.*

» *Consolidate multiple undesignated trail treads into a single designated tread and improve trail sustainability, by re-routing some sections and conducting maintenance on the single track.*

» *Decrease visitor conflict.*

*See Appendix D for a list of interests met by each action.




## MAP 18: Boulder Valley Ranch - South Boulder Valley Ranch Focus Area

- OSMP Access Point
- New Trailhead
- Upgrade Trailhead
- Designate for Fishing
- Maintain ADA Standards
- Designate Access Point
- OSMP Fee & Managed Property
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Non-OSMP Managed Trails
- Undesignated Trail
- Close Undesignated Trail
- Pave an Existing Road
- OSMP Easement or Jointly Owned, County-Managed Land
- Create a New Connection
- Designate an Undesignated Trail
- Re-route an Existing Trail
- Repair an Existing Trail
- Close and Restore the Current Alignment
- Other Government Land

Trail changes are depicted conceptually. Actual trail alignments will differ.

User: GardE1 Date: 4/29/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\BVR_Subarea\BVR_SoutheastFocusArea.mxd

## MAP 18: Boulder Valley Ranch - South Boulder Valley Ranch Focus Area, continued

### *Action B28* Allow fishing access on eastern shore of BVR pond.

*Interests Met: 4**

#### Primary Goal

» *Formalize and designate area for water access to reduce impacts to wildlife, aquatic and other natural resources.*

#### Driving Factors/Benefits

» *Protect northern shore from resource degrading impacts of visitor activities.*

» *Retain current seasonal closure over part of the pond to protect sensitive wildlife.*

### *Action B29* Create a new trail connection on the south side of the Papini property. (Wrangler Trail)

*Interests Met: 6**

» *Provide a trail connection along the south side of the Papini property connecting Kelso Road to the Mesa Reservoir trail system.*

#### Primary Goal

» *Increase trail connectivity within the North TSA and between surrounding residential areas and reduce undesignated trails.*

#### Driving Factors/Benefits

» *Provide trail connections to reduce the extent and number of undesignated trails.*

» *Protect natural resources from impacts associated with undesignated trails and access points. Allow access within a fenced corridor on the Papini property to protect natural resources, including ponds which may become a native fish refuge.*

### *Action B30* Public access to BVR arena.

#### Primary Goal

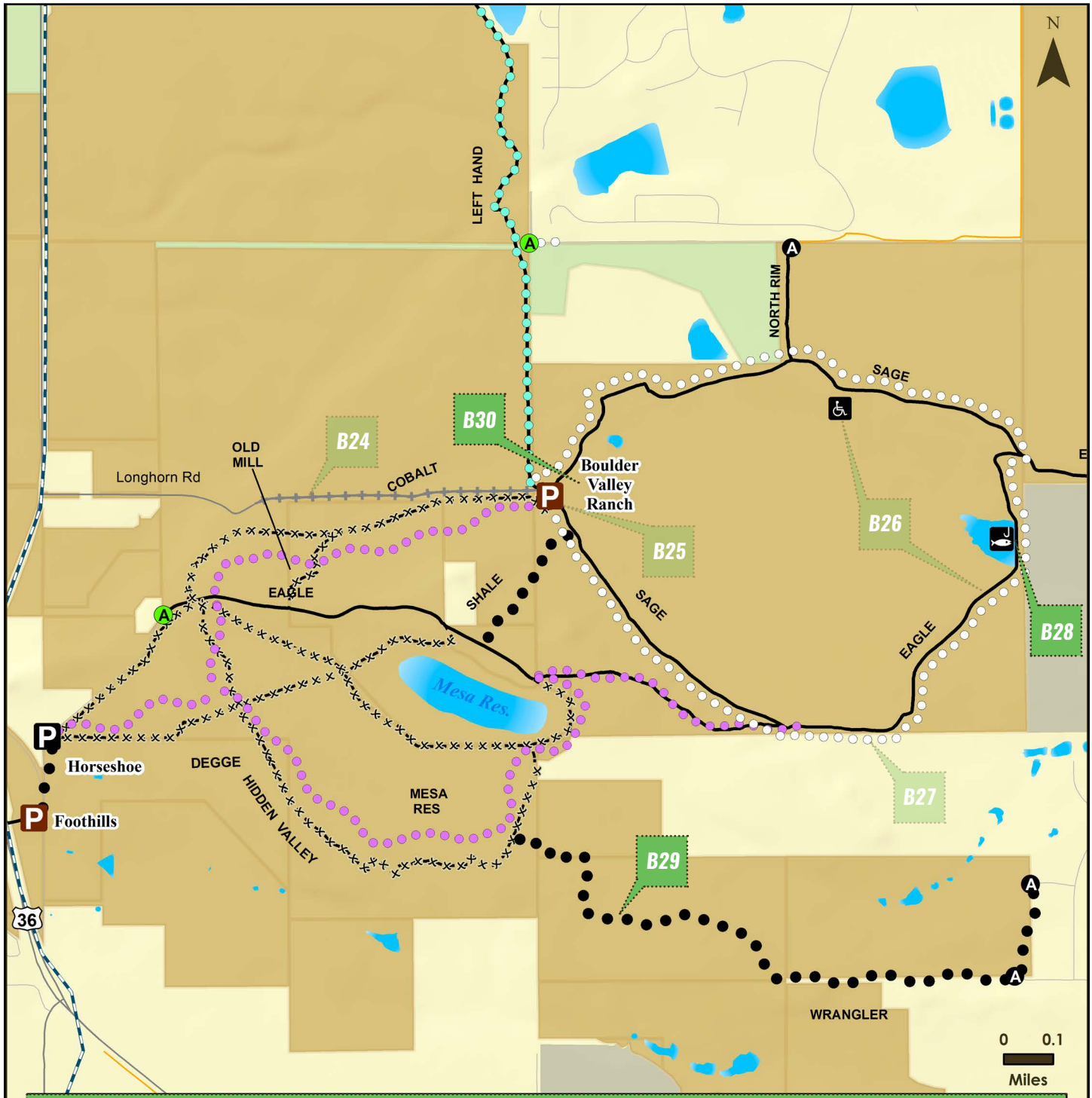
» *Continue to follow the terms of the lease regarding public access to the BVR equestrian arena and concurrently develop options for nearby horse trailer parking and/or seek to provide an equivalent and suitable corral option that will be determined in cooperation with stakeholders that will be vetted and approved in a future public process. Proactively address any conflict issues resulting from public access in future lease negotiations.*

#### Driving Factors/Benefits

» *Action added by OSBT during approval of the draft plan.*

*Mesa Reservoir. Photo courtesy Bob Crifasi.*

*See Appendix D for a list of interests met by each action.




## MAP 18: Boulder Valley Ranch - South Boulder Valley Ranch Focus Area, continued

- OSMP Access Point
- New Trailhead
- Upgrade Trailhead
- Designate for Fishing
- Maintain ADA Standards
- Designate Access Point
- OSMP Fee & Managed Property
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Non-OSMP Managed Trails
- Undesignated Trail
- Close Undesignated Trail
- Pave an Existing Road
- OSMP Easement or Jointly Owned, County-Managed Land
- Create a New Connection
- Designate an Undesignated Trail
- Re-route an Existing Trail
- Repair an Existing Trail
- Close and Restore the Current Alignment
- Other Government Land

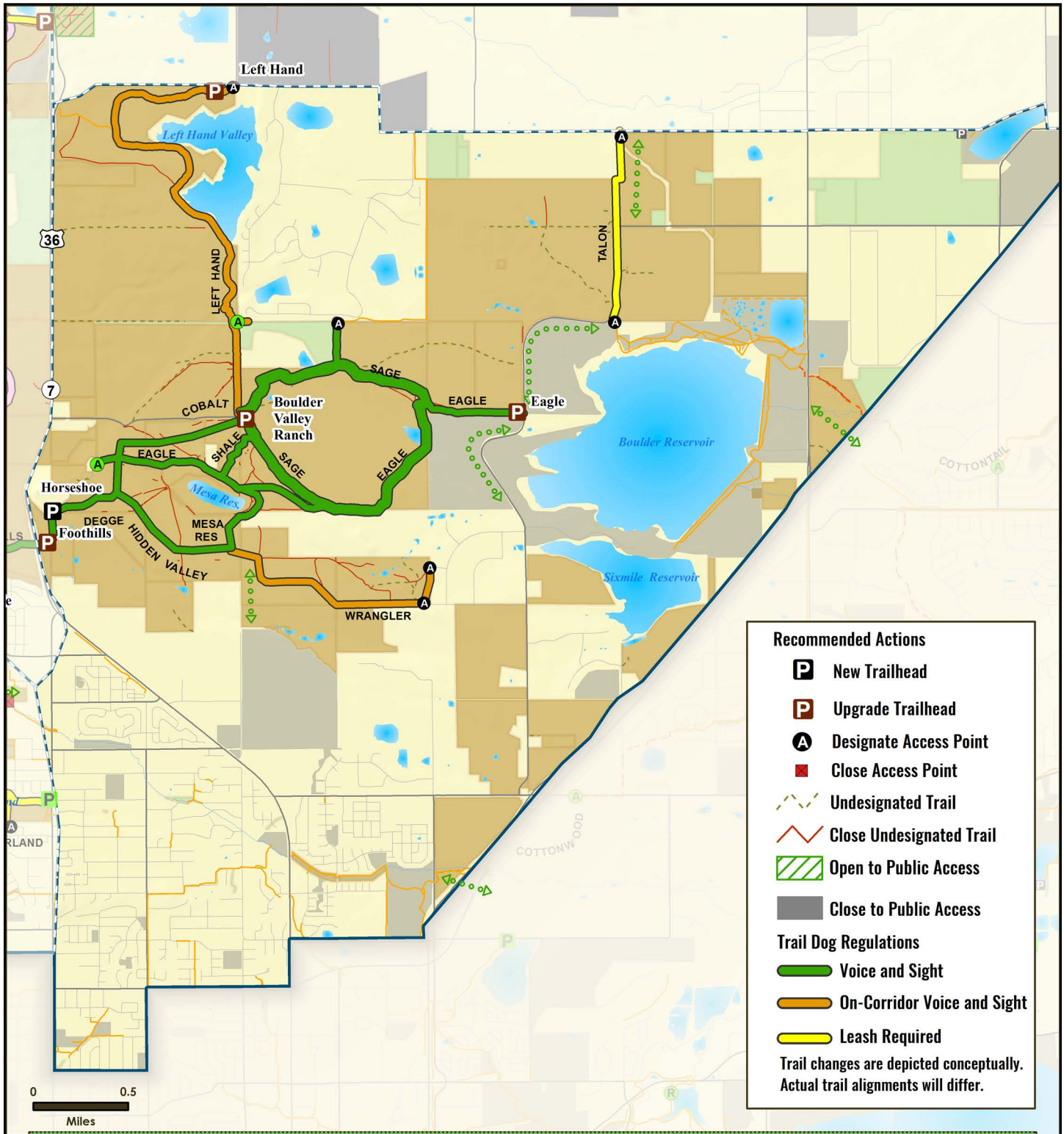
Trail changes are depicted conceptually. Actual trail alignments will differ.

User: GardE1 Date: 4/29/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\BVR_Subarea\BVR_SoutheastFocusArea.mxd

## MAP 19: Boulder Valley Ranch - Trail-Based Dog Regulations

| TRAIL NAME | DOG REGULATION |
|---|---|
| *New Trails* | |
| *Connector trail from Lefthand Trail to the Lake Valley Estates neighborhood* | *On-Corridor Voice and Sight* |
| *Designated single track around Eagle and Sage trails* | *Voice and Sight* |
| *Connector near 55th Street to Niwot Road (Talon Trail)* | *Leash Required* |
| *Papini connector trail (Wrangler Trail)* | *On-Corridor Voice and Sight* |
| *Interpretative trail to Mesa Reservoir (Shale Trail)* | *Voice and Sight* |
| *Connector from Foothills Trailhead to Horseshoe Trailhead* | *Voice and Sight* |
| *Existing and Re-routed Trails with New Dog Regulations* | |
| *Lefthand Trail* | *On-Corridor Voice and Sight* |
| *Existing and Re-routed Trails with No Changes to Existing Dog Regulations* | |
| *Eagle Trail* | *Voice and Sight* |
| *Sage Trail* | *Voice and Sight* |
| *North Rim Trail (OSMP section)* | *Voice and Sight* |
| *Re-routed Cobalt Trail / Old Mill Trail* | *Voice and Sight* |
| *Re-routed Hidden Valley Trail / Mesa Reservoir* | *Voice and Sight* |
| *Re-routed Degge Trail* | *Voice and Sight* |

| *New Off-Trail Dog Regulations* |
|---|
| *Dogs required to be on leash on the properties adjacent to the Papini connector trail (Wrangler Trail). On-Corridor Voice and Sight access allowed on the Wrangler Trail.* |




## MAP 19: Boulder Valley Ranch - Trail-Based Dog Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Non-OSMP Planned Trails
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands

- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area

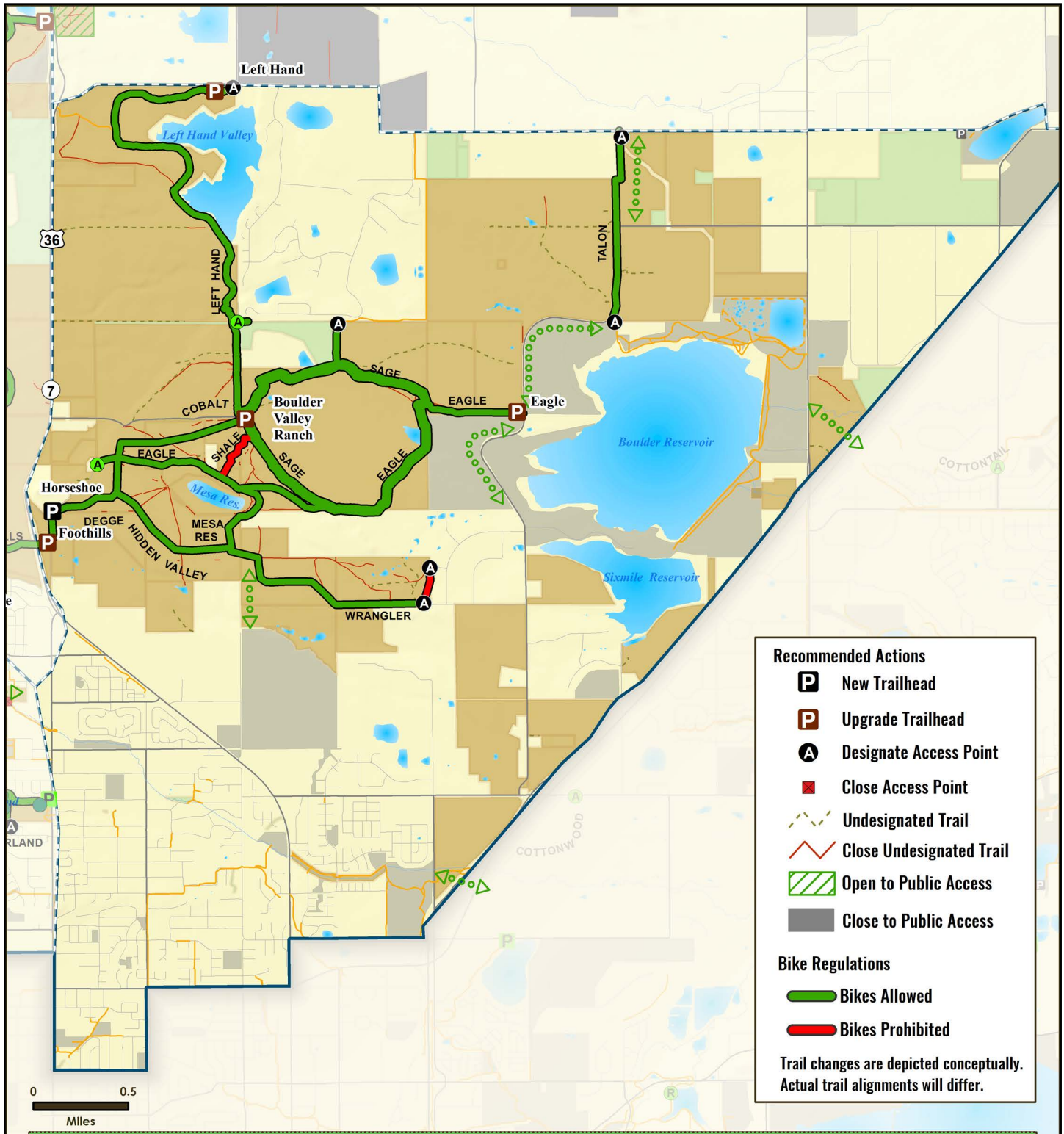
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

User: GardE1 Date: 5/9/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RegulationsMaps\BVR_Subarea\BVR Subarea - Dogs.mxd

## MAP 20: Boulder Valley Ranch - Bike Regulations

| TRAIL NAME | BIKE REGULATION |
|---|---|
| New Trails | |
| Connector trail from Lefthand Trail to the Lake Valley Estates neighborhood | Bikes Allowed |
| Designated single-track around Eagle and Sage trails | Bikes Allowed |
| Connector near 55th Street to Niwot Road (Talon Trail) | Bikes Allowed |
| Papini connector trail (Wrangler Trail) | Bikes Allowed, except for a neighborhood connection on the east. |
| Interpretive trail to Mesa Reservoir (Shale Trail) | Bikes Prohibited |
| Connector from Foothills Trailhead to new Horseshoe Trailhead | Bikes Allowed |
| Existing and Re-routed Trails with New Bike Regulations | |
| Re-routed Cobalt Trail / Old Mill Trail | Bikes Allowed |
| Re-routed Hidden Valley Trail / Mesa Reservoir | Bikes Allowed |
| Re-routed Degge Trail | Bikes Allowed |
| Existing and Re-routed Trails with No Changes to Existing Bike Regulations | |
| Lefthand Trail | Bikes Allowed |
| Eagle Trail | Bikes Allowed |
| Sage Trail | Bikes Allowed |
| North Rim Trail (OSMP section) | Bikes Allowed |




## MAP 20: Boulder Valley Ranch - Bike Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

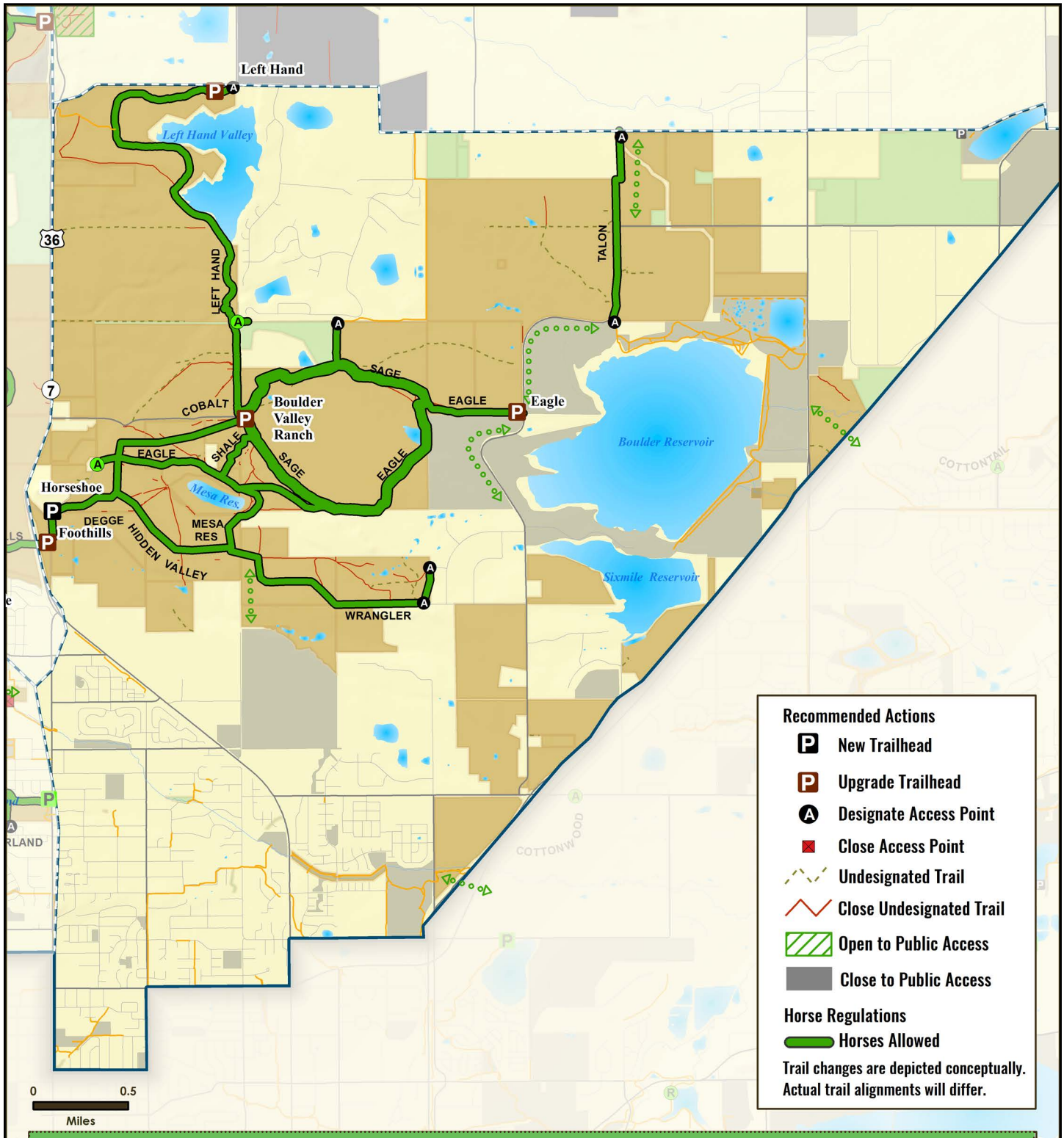
User: GardE1 Date: 5/9/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RegulationsMaps\BVR_Subarea\BVR Subarea - Bikes.mxd

## MAP 21: Boulder Valley Ranch - Trail-Based Horse Regulations

| TRAIL NAME | HORSE REGULATION |
|---|---|
| New Trails | |
| Connector trail from Lefthand Trail to the Lake Valley Estates neighborhood | Horses Allowed |
| Designated single-track around Eagle and Sage trails | Horses Allowed |
| Connector near 55th Street to Niwot Road (Talon Trail) | Horses Allowed |
| Papini connector trail (Wrangler Trail) | Horses Allowed |
| Interpretive trail to Mesa Reservoir (Shale Trail) | Horses Allowed |
| Connector from Foothills Trailhead to new Horseshoe Trailhead | Horses Allowed |
| Existing and Re-routed Trails with No Changes to Existing Horse Regulations | |
| Lefthand Trail | Horses Allowed |
| Eagle Trail | Horses Allowed |
| Sage Trail | Horses Allowed |
| North Rim Trail (OSMP section) | Horses Allowed |
| Re-routed Cobalt Trail/Old Mill Trail | Horses Allowed |
| Re-routed Hidden Valley Trail/Mesa Reservoir Trail | Horses Allowed |
| Re-routed Degge Trail | Horses Allowed |

***Horses are allowed off trail in this subarea.***

Lefthand Trailhead




## MAP 21: Boulder Valley Ranch - Trail-Based Horse Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- OSMP Recreational Feature Access
- Boulder County Trailhead
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands

- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area

- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

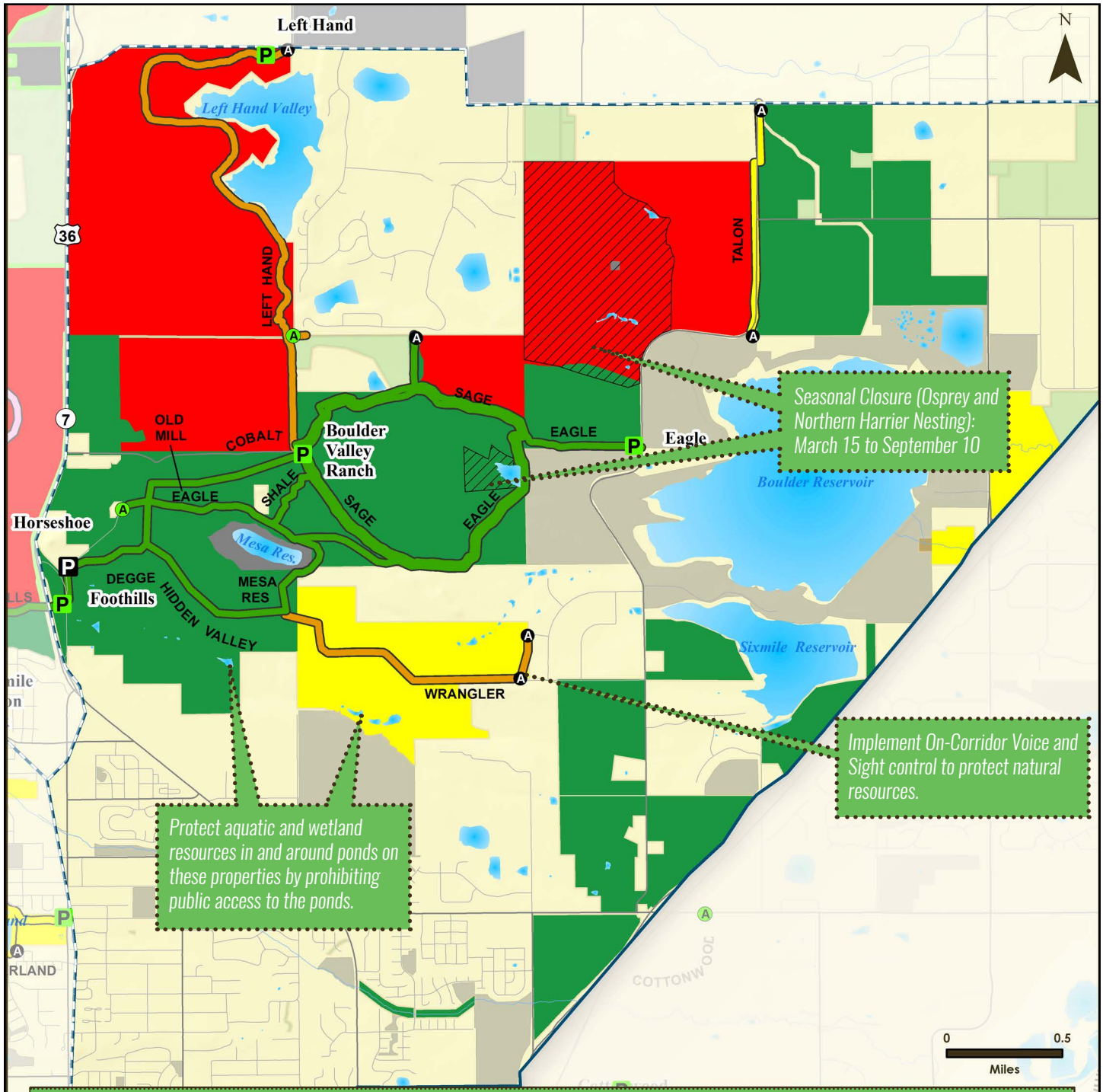
N

User: GardE1 Date: 5/9/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RegulationsMaps\BVR_Subarea\BVR Subarea - Horses.mxd

## MAP 22: Boulder Valley Ranch - Regulatory Settings

*Visitor access regulations pertain to the management of activities both on- and off-trail. The regulatory settings map includes on-trail and off-trail specific regulations where public access is restricted year-round, areas with seasonal wildlife closures and on-trail and off-trail dog regulations.*

*Prairie grasses in autumn backlit by golden sunset, fence and leafless trees at Boulder Valley Ranch. © Jack Sasson.*




## MAP 22: Boulder Valley Ranch - Regulatory Settings

North Trail Study Subareas

OSMP Trailhead

OSMP Access Point

Visitor Access Regulations

New Trailhead

New Access Point

Trail Dog Regulations

Voice and Sight

On-Corridor Voice and Sight

Leash Required

Dogs Prohibited

OSMP Easement or Jointly Owned, County-Managed Land

Other Government Land

Dog Regulation Areas

Voice and Sight Control

Leash Required

Dogs Prohibited

Closed to Public Access

Seasonal Wildlife Closure

Trail changes are depicted conceptually. Actual trail alignments will differ.

User: GardE1 Date: 5/13/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\BVR_Subarea\BVR_Subarea_RegSettings.mxd

*Background photo: Wonderland Lake.*

# North TSA Plan Recommendations

## Wonderland Lake

## MAP 23: Wonderland Lake - Subarea-Wide Recommendations

### Action W1 Collaborate with Parks and Recreation to support nature play experiences on their adjacent properties.

*Interests Met: 1**

» *Collaborate with City of Boulder Parks and Recreation Department to support designed nature play experiences on their property and support appropriate passive recreation aspects of this type of experience on adjacent OSMP land.*

**Primary Goal**

» *Support the creation of places designed for children on Parks and Recreation properties to gain a greater appreciation for, and awareness of, the natural environment.*

**Driving Factors/Benefits**

» *Promote daily contact with the natural environment and outdoor space consistent and suitable for OSMP lands.*

### Action W2 Assess vision for Foothills Nature Center.

*Interests Met: 2**

» *OSMP is assessing and preparing plans for the future vision of the Foothills Nature Center and associated trailhead.*

**Primary Goal**

» *A separate building and site assessment process will determine potential changes to the Foothills Nature Center and Trailhead.*

### Action W3 Construct a shade structure near Wonderland Lake Trailhead.

*Interests Met: 2**

**Primary Goal**

» *Provide a shaded area where education and other groups can gather when accessing the Wonderland Lake area.*

**Driving Factors/Benefits**

» *Provide shade for the safety and comfort of educational groups and other visitors.*

### Action W4 Improve safety at Broadway crossing.

*Interests Met: 3**

» *Support and encourage improvements to crossing between Sumac Avenue, RTD bus stop and the Foothills Nature Center.*

**Primary Goal**

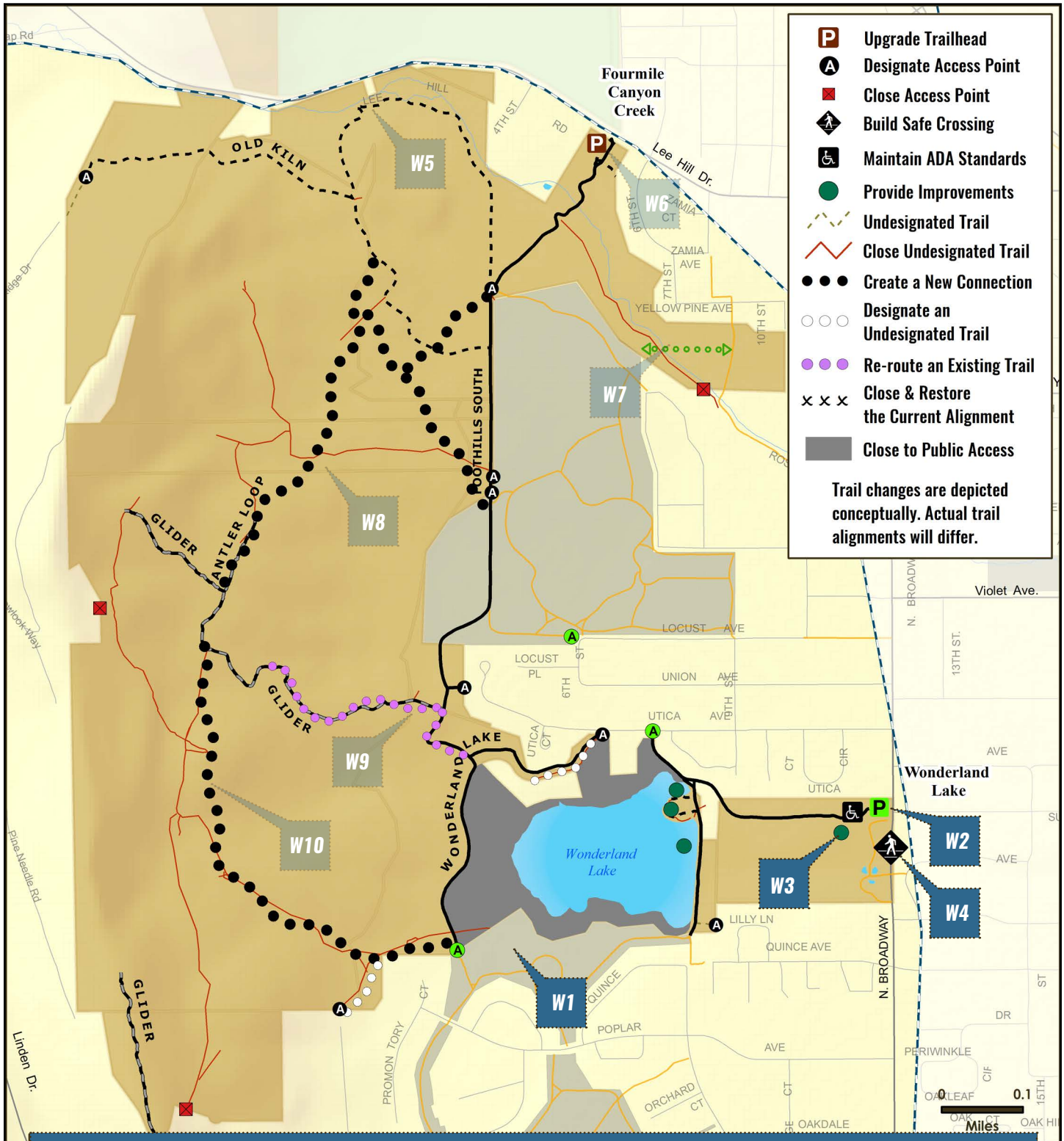
» *Encourage and support creating a safer and more visible way to cross Broadway for visitors accessing Foothills Nature Center and Wonderland Lake by bus.*

**Driving Factors/Benefits**

» *Improve accessibility of North TSA to visitors who rely upon public transit.*

*Note: There are no new management area designations in this subarea.*

**See Appendix D for a list of interests met by each action.*




## MAP 23: Wonderland Lake - Subarea-Wide Recommendations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point
- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

User: GardE1 Date: 5/11/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\Wonderland_Lake_Subarea\WonderlandLakeSubArea.mxd

## MAP 24: Wonderland Lake - Fourmile Canyon Creek Focus Area

### Action W5 Revegetate the flood-damaged northern loop section of Old Kiln Trail.

Interests Met: 2*

#### Primary Goal

» *Protect rare plants and unique geological features in this area.*

#### Driving Factors/Benefits

» *Rebuilding the trail is not feasible given the extensive damage from the 2013 flood.*

» *Restore/improve riparian habitat.*

### Action W6 Rename Four Mile Creek Trailhead as Fourmile Canyon Creek Trailhead.

Interests Met: 2*

#### Primary Goal

» *Align trailhead name with Fourmile Canyon Creek.*

### Action W7 Collaborate to create a connection from Fourmile Canyon Creek Greenway path to Foothills Community Park.

Interests Met: 3*

» *As opportunities arise, collaborate with partner agencies to create local trail connections in a way that minimizes natural resource impacts.*

#### Primary Goal

» *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*

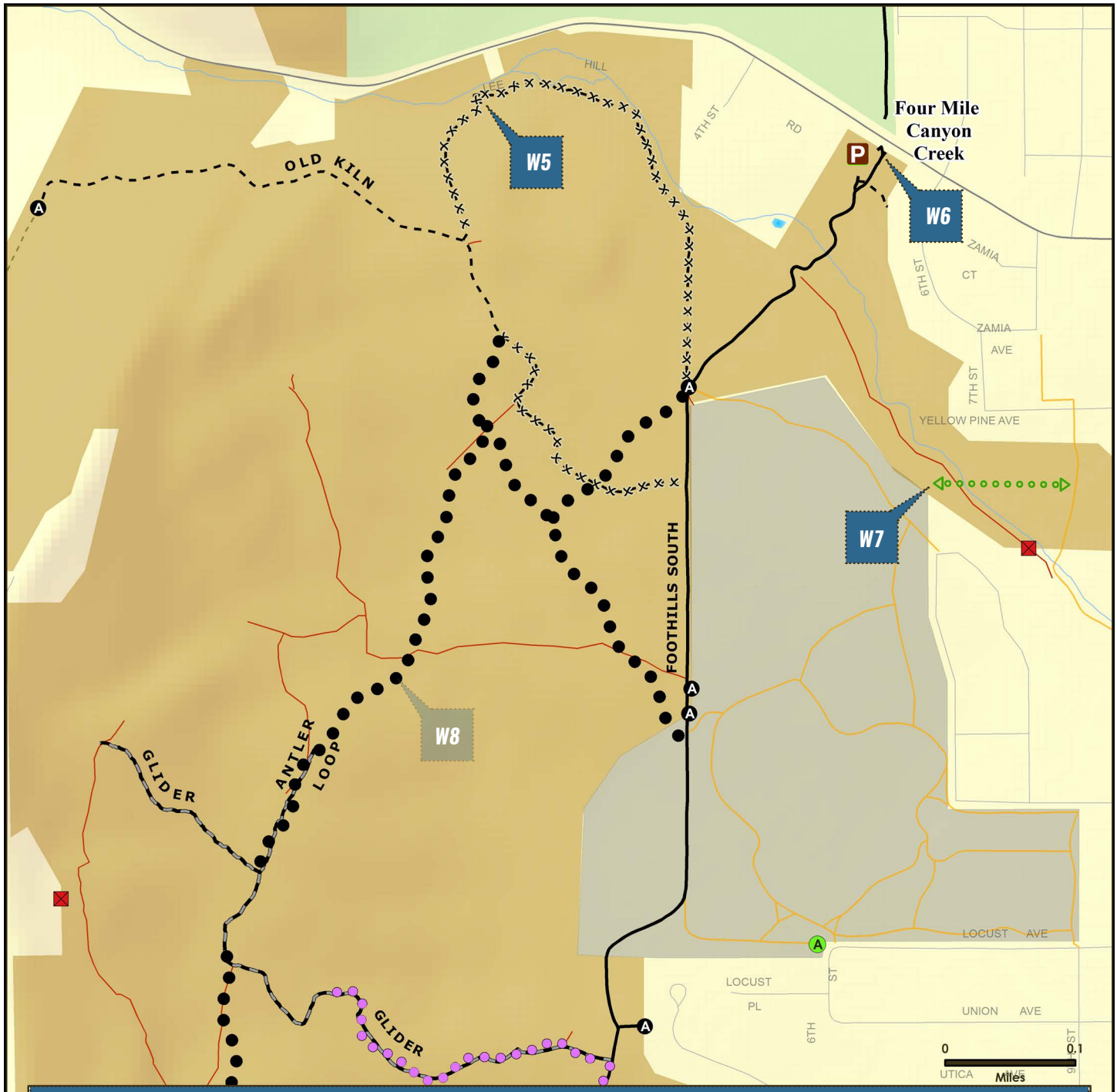
#### Driving Factors/Benefits

» *Increase coordination/consistency among OSMP and partner agencies to advance local trail connections that also conserve natural and agricultural resources.*

» *Connection accepted by City Council in the Greenways Master Plan.*

*Staff Steve Mertz by historical limestone kiln after flood of September 2013 washed out Fourmile Canyon Creek channel.*

*See Appendix D for a list of interests met by each action.




## MAP 24: Wonderland Lake - Fourmile Canyon Creek Focus Area

- Upgrade Trailhead
- Designate Access Point
- OSMP Access Point
- Close Access Point
- Create a New Connection
- Close and Restore the Current Alignment
- Re-route an Existing Trail
- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Trails
- Undesignated Trail
- Close Undesignated Trail
- OSMP Fee & Managed Property
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

Trail changes are depicted conceptually. Actual trail alignments will differ.

N

User: GardE1 Date: 5/11/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\Wonderland_Lake_Subarea\Wonderland_NorthFocusArea.mxd

**Action W8 Create Wonderland Lake backdrop loop trail connection by re-routing trails. (Antler Loop)**

*Interests Met: 4**

## MAP 25: Wonderland Lake - South Foothills Focus Area

» *Re-route existing designated and undesignated trails to provide more sustainable connections to the paragliding launch sites and visitors seeking a trail experience on the Wonderland hogback.*

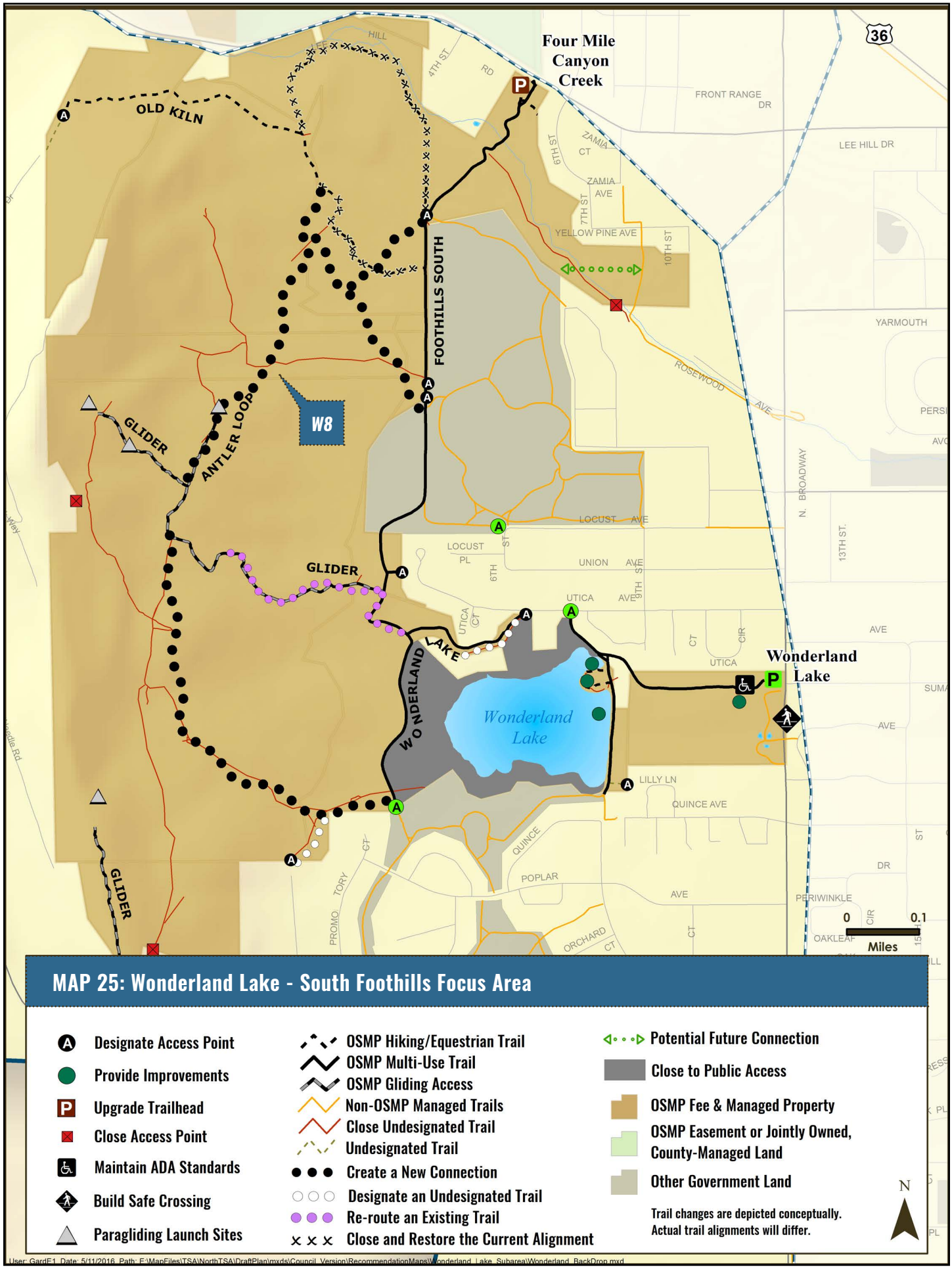
### Primary Goal

» *Provide new trail access to improve visitor experience, replace undesignated trails and reduce maintenance and management costs.*

### Driving Factors/Benefits

» *Avoid sensitive natural resources through the addition of sustainable trails, re-routing of unsustainable trails and closure of undesignated trails.*

*See Appendix D for a list of interests met by each action.




## MAP 25: Wonderland Lake - South Foothills Focus Area

- Designate Access Point
- Provide Improvements
- Upgrade Trailhead
- Close Access Point
- Maintain ADA Standards
- Build Safe Crossing
- Paragliding Launch Sites
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Trails
- Close Undesignated Trail
- Undesignated Trail
- Create a New Connection
- Designate an Undesignated Trail
- Re-route an Existing Trail
- Close and Restore the Current Alignment
- Potential Future Connection
- Close to Public Access
- OSMP Fee & Managed Property
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

Trail changes are depicted conceptually. Actual trail alignments will differ.

User: GardE1 Date: 5/11/2016 Path: F:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\Wonderland_Lake_Subarea\Wonderland_BackDrop.mxd

## MAP 26: Wonderland Lake - Wonderland Lake Backdrop Focus Area

### Action W9 Re-route portion of the Wonderland Lake Trail.

*Interests Met: 2**

» *Re-route the steep downhill section of trail just north of where it connects into Foothills South Trail.*

#### Primary Goal

» *Increase sustainability of this section of trail while minimizing impacts to rare plant communities including New Mexico feathergrass in this area.*

### Action W10 Create a second, smaller Wonderland Lake backdrop loop trail. (Glider Access Trail)

*Interests Met: 3**

» *Create a more sustainable trail connection to replace the existing glider access trail.*

#### Primary Goal

» *Increase recreation and loop trail opportunities for visitors.*

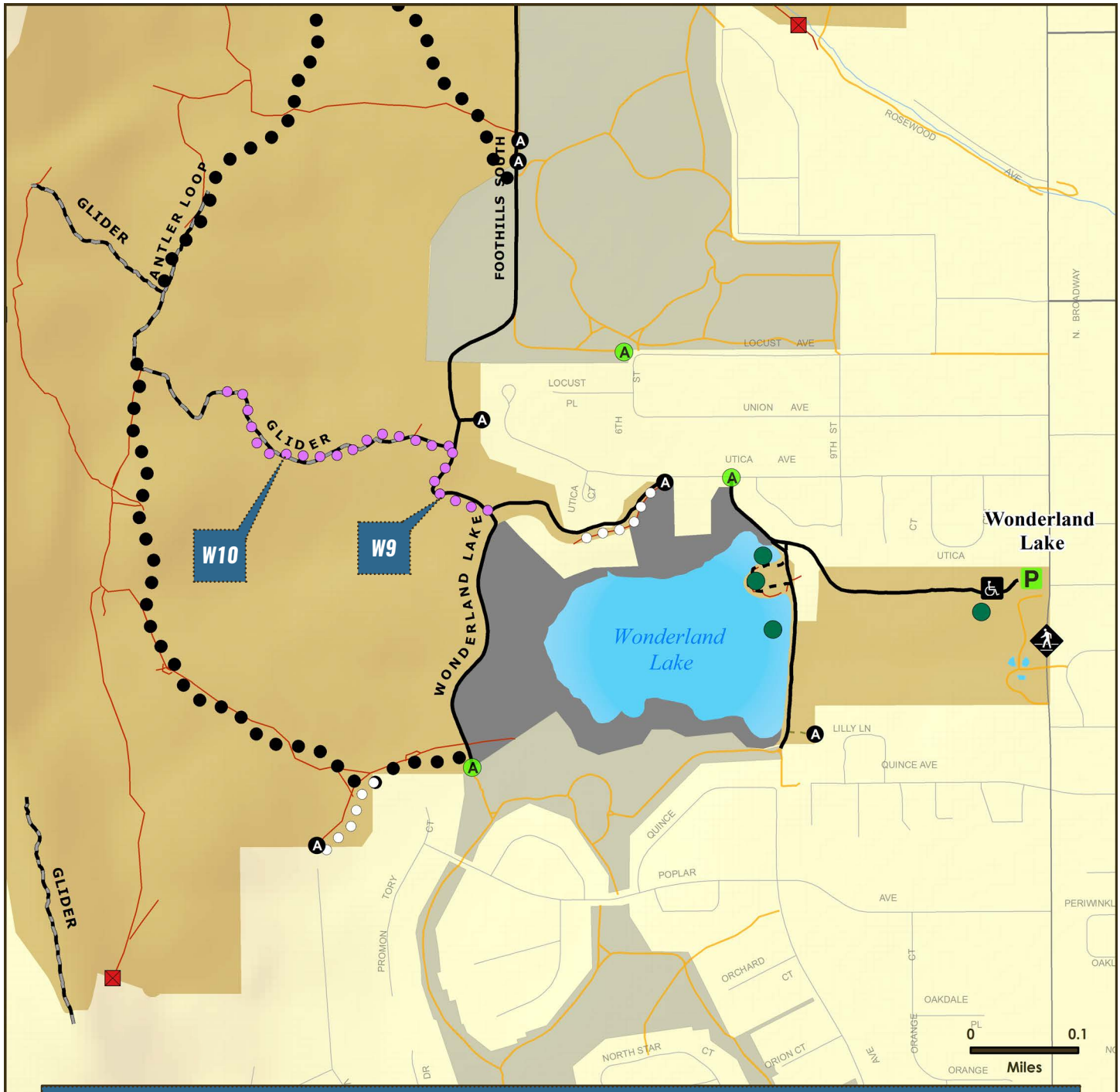
#### Driving Factors/Benefits

» *Increase connectivity among trails.*

» *Increase trail sustainability.*

*Blooming New Mexico feathergrass. © Bill May.*

*See Appendix D for a list of interests met by each action.




## MAP 26: Wonderland Lake - Wonderland Lake Backdrop Focus Area

- P — OSMP Trailhead
- A — OSMP Access Point
- Close Access Point
- A — Designate Access Point
- Build Safe Crossing
- Maintain ADA Standards
- Provide Improvements
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Close Undesignated Trail
- Undesignated Trail
- Non-OSMP Managed Trails
- Create a New Connection
- Designate an Undesignated Trail
- Re-route an Existing Trail
- Close to Public Access
- OSMP Fee & Managed Property
- Other Government Land

Trail changes are depicted conceptually. Actual trail alignments will differ.

User: edwak1 Date: 4/7/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\Wonderland_Lake_Subarea\Wonderland_SouthFocusArea.mxd

## MAP 27: Wonderland Lake - Wonderland Lake Focus Area

### Action W11 Improve Americans with Disabilities Act (ADA) access on Wonderland Lake Trail.

*Interests Met: 5**

**Primary Goal**

» *Provide more inclusive access to all types of visitors at Wonderland Lake Trail.*

**Driving Factors/Benefits**

» *This trail is suitable for improving ADA accessibility due to its grade, out-slope, trail width and lack of obstacles in the trail tread.*

### Action W12 Prohibit boats and belly boats on Wonderland Lake.

*Interests Met: 2**

**Primary Goal**

» *Provide greater protection of lake and wetland natural resources.*

**Driving Factors/Benefits**

» *Minimize disturbance to waterfowl and shorebirds.*

» *Designate fishing access off of the dam, peninsula and a pier where visitor impacts to wetland resources can be minimized.*

### Action W13 Prohibit ice skating on Wonderland Lake.

*Interests Met: 2**

**Primary Goal**

» *Creates consistent visitor access regulations and increases visitor safety.*

**Driving Factors/Benefits**

» *Consistent with restrictions to prohibit access on the lake in order to protect wetlands.*

### Action W14 Allow sledding on Wonderland Lake dam.

*Interests Met: 2**

**Primary Goal**

» *Provide sledding access in an area that does not damage natural resources or have safety concerns.*

**Driving Factors/Benefits**

» *Formalize an area where children/families can sled.*

### Action W15 Do not provide access to Wonderland Lake's south, west and north shores.

*Interests Met: 1**

**Primary Goal**

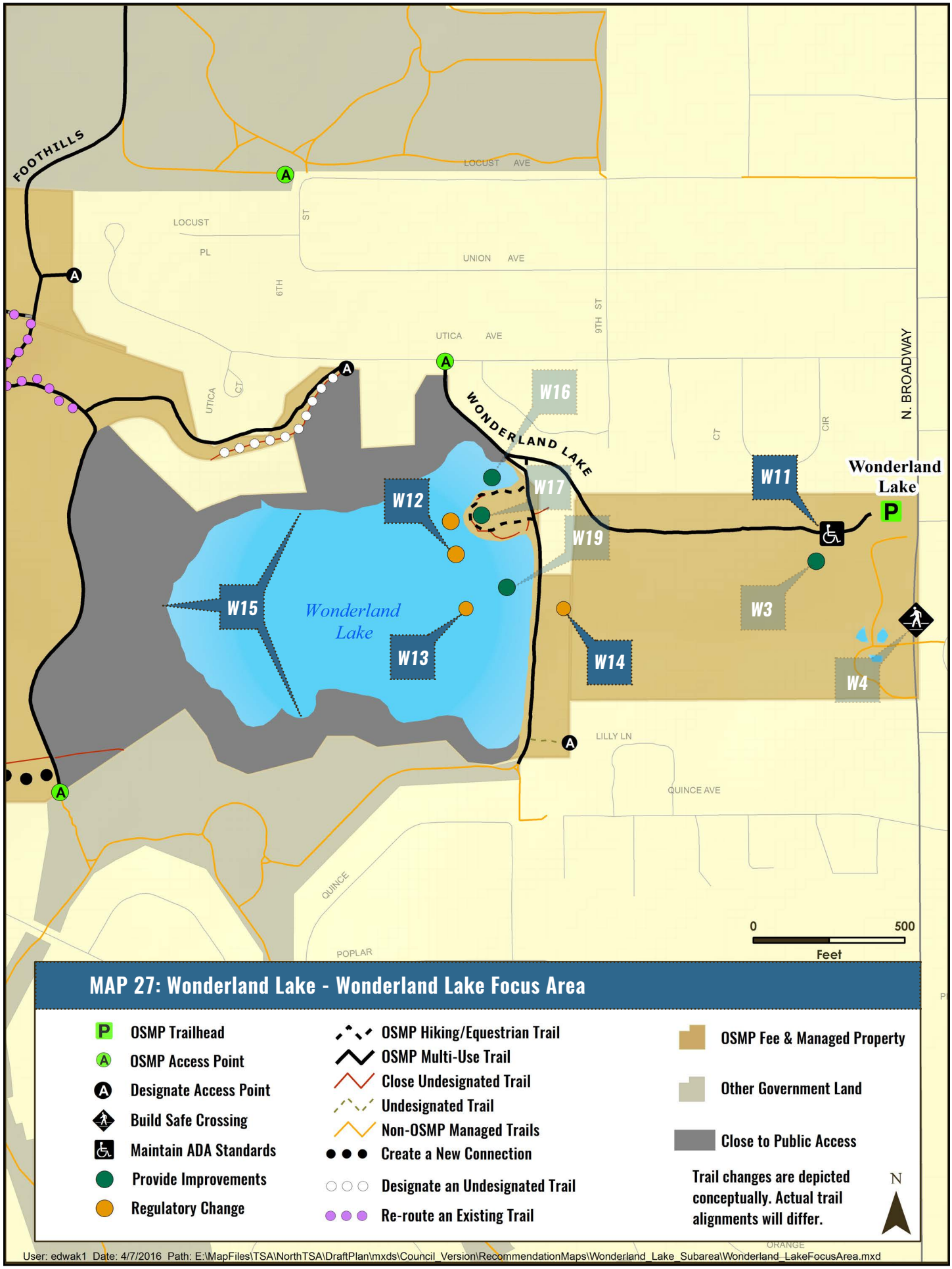
» *Protect sensitive wetland resources on the south, west and north shores of Wonderland Lake.*

**Driving Factors/Benefits**

» *Minimize disturbance to waterfowl, shorebirds and other wildlife.*

» *Areas of the east shore are accessible for water access, fishing access and interpretive opportunities.*

*See Appendix D for a list of interests met by each action.


FOOTHILLS
LOCUST AVE
LOCUST PL
ST
6TH
UNION AVE
9TH ST
UTICA AVE
UTICA CT
WONDERLAND LAKE
N. BROADWAY
CT
CIR
W16
W17
W11
W12
W19
W15
W3
W13
W14
W4
Wonderland Lake
Wonderland Lake
P
LILLY LN
QUINCE AVE
QUINCE
POPLAR
ORANGE
0
500
Feet
MAP 27: Wonderland Lake - Wonderland Lake Focus Area
OSMP Trailhead
OSMP Access Point
Designate Access Point
Build Safe Crossing
Maintain ADA Standards
Provide Improvements
Regulatory Change
OSMP Hiking/Equestrian Trail
OSMP Multi-Use Trail
Close Undesignated Trail
Undesignated Trail
Non-OSMP Managed Trails
Create a New Connection
Designate an Undesignated Trail
Re-route an Existing Trail
OSMP Fee & Managed Property
Other Government Land
Close to Public Access
Trail changes are depicted conceptually. Actual trail alignments will differ.
N
User: edwak1 Date: 4/7/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\Wonderland_Lake_Subarea\Wonderland_LakeFocusArea.mxd

## MAP 28: Wonderland Lake - Peninsula Focus Area

### Action W16 Provide access to the cattail marsh on north side of peninsula.

*Interests Met: 4**

#### Primary Goal

» *Increase opportunities for education and interpretive experiences, especially for families and youth.*

#### Driving Factors/Benefits

» *Provide out and back interpretive boardwalk access to the cattail marsh adjacent to peninsula where impacts can be minimized at this site and by protecting other wetland areas around the lake.*

### Action W17 Establish hardened pullout areas on the peninsula for educational programming and a hardened wading access.

*Interests Met: 4**

» *Provide increased beach access on the western edge of the peninsula.*

#### Primary Goal

» *Increase and define opportunities to access water to foster education and interpretive experiences.*

#### Driving Factors/Benefits

» *Mitigate conflicts among interpretive programs with children and families and other visitor activities.*

» *Concentrate access into defined areas on to the peninsula, protecting wetland vegetation in other areas on the peninsula and around the lake.*

### Action W18 Allow Wonderland Lake wading access from designated areas on the peninsula.

*Interests Met: 3**

#### Primary Goal

» *Provide a special water access opportunity for improved visitor experience and nature study for youth.*

#### Driving Factors/Benefits

» *Access to water for visitors would be limited to peninsula and occur in location where impacts to natural resources can be minimized.*

» *Increase consistency and compliance of regulations in this area.*

### Action W19 Create Wonderland Lake fishing pier.

*Interests Met: 6**

#### Primary Goal

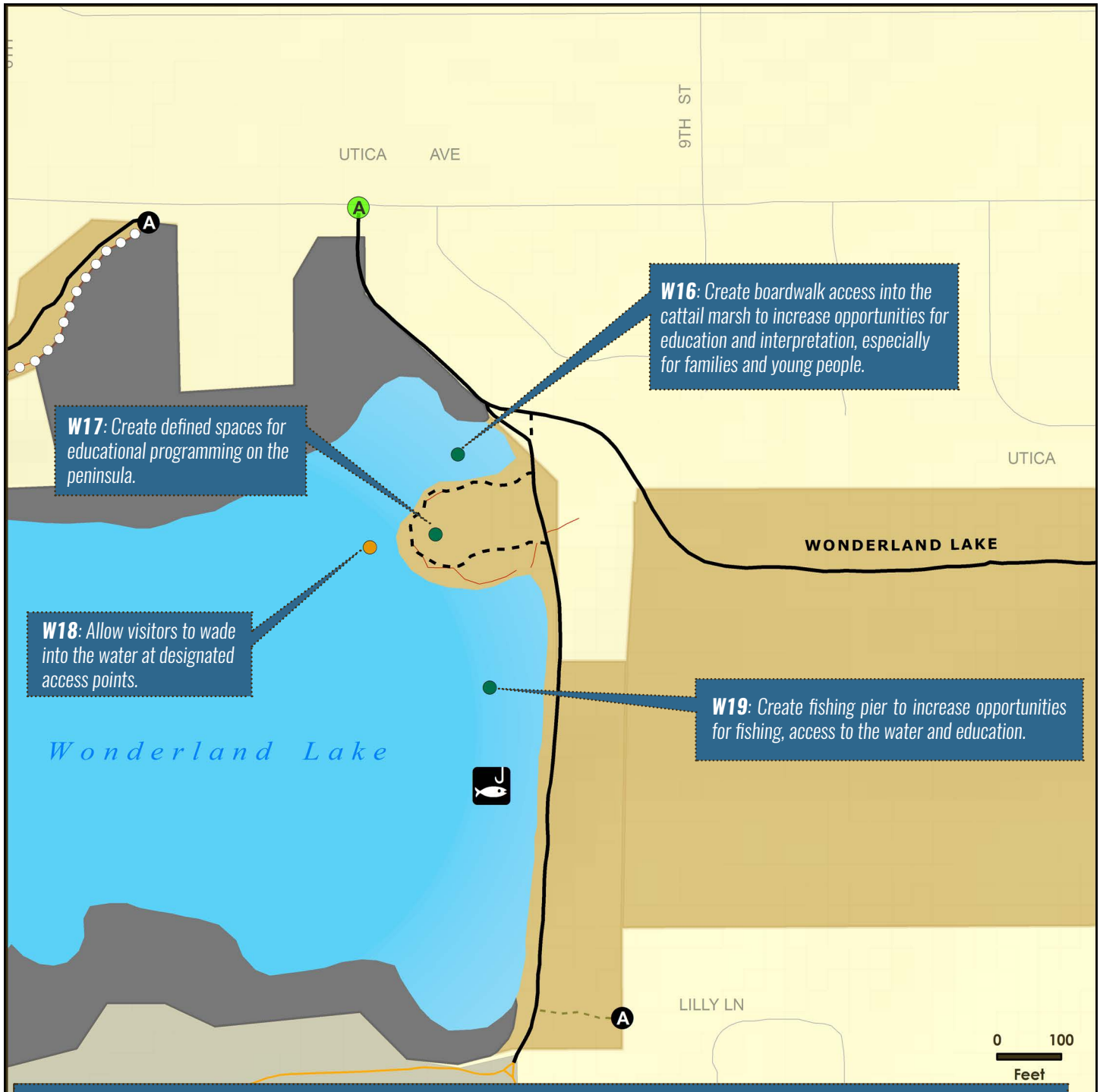
» *Increase opportunities to fish, access water and provide education and interpretive experiences.*

#### Driving Factors/Benefits

» *Provide fishing access alternative to enhance the safety for visitors traveling along the dam around those who are fishing.*

» *Concentrate fishing and lake access to protect wetland vegetation in other areas around the lake.*

*See Appendix D for a list of interests met by each action.




## MAP 28: Wonderland Lake - Peninsula Focus Area

- OSMP Access Point
- Designate Access Point
- Fishing Access
- Regulatory Change
- Provide Improvements
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- Close Undesignated Trail
- Undesignated Trail
- Non-OSMP Managed Trails
- Designate an Undesignated Trail
- OSMP Fee & Managed Property
- Other Government Land
- Close to Public Access

Trail changes are depicted conceptually. Actual trail alignments will differ.

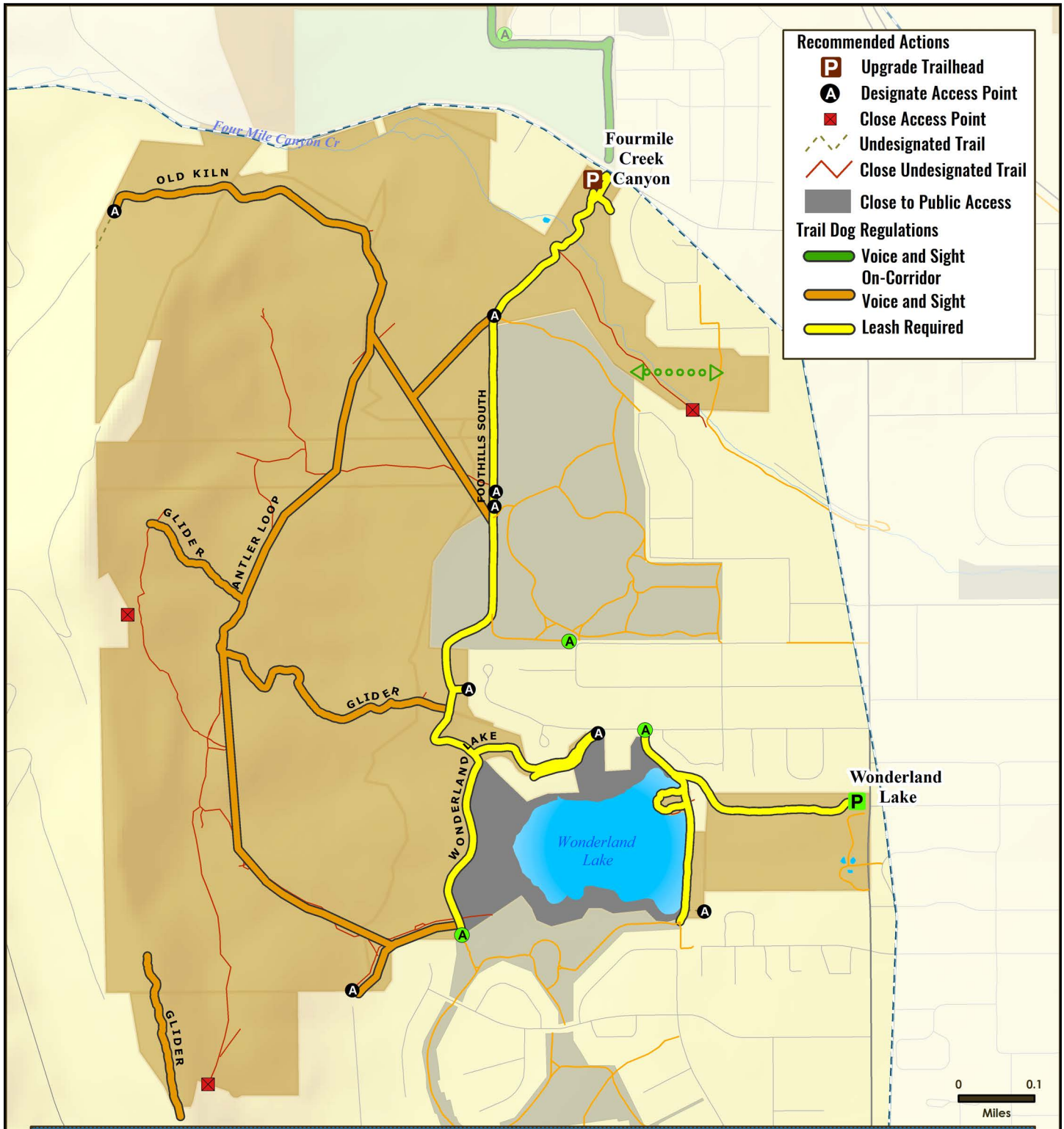
N

User: GardE1 Date: 2/25/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\RecommendationMaps\Wonderland_Subarea\Wonderland_PeninsulaFocusArea.mxd

## MAP 29: Wonderland Lake - Trail-Based Dog Regulations

| TRAIL NAME | DOG REGULATION |
|---|---|
| **New Trails** | |
| Wonderland Hill loop (Antler Loop) | On-Corridor Voice and Sight |
| **Existing and Re-routed Trails with New Dog Regulations** | |
| Old Kiln Trail | On-Corridor Voice and Sight |
| Re-routed Wonderland Hill glider access (Glider Access Trail) | On-Corridor Voice and Sight |
| Wonderland Hill south glider access off Pine Needle Road | On-Corridor Voice and Sight |
| **Existing and Re-routed Trails with No Changes to Existing Dog Regulations** | |
| Foothills South Trail | Leash Required |
| Wonderland Lake trails | Leash Required |
| Wonderland Lake peninsula trail | Leash Required |

***There are no new off-trail regulations in this subarea. Dogs are required to be on leash when off-trail in this subarea.***




## MAP 29: Wonderland Lake - Trail-Based Dog Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point

Trail changes are depicted conceptually. Actual trail alignments will differ.

- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

N

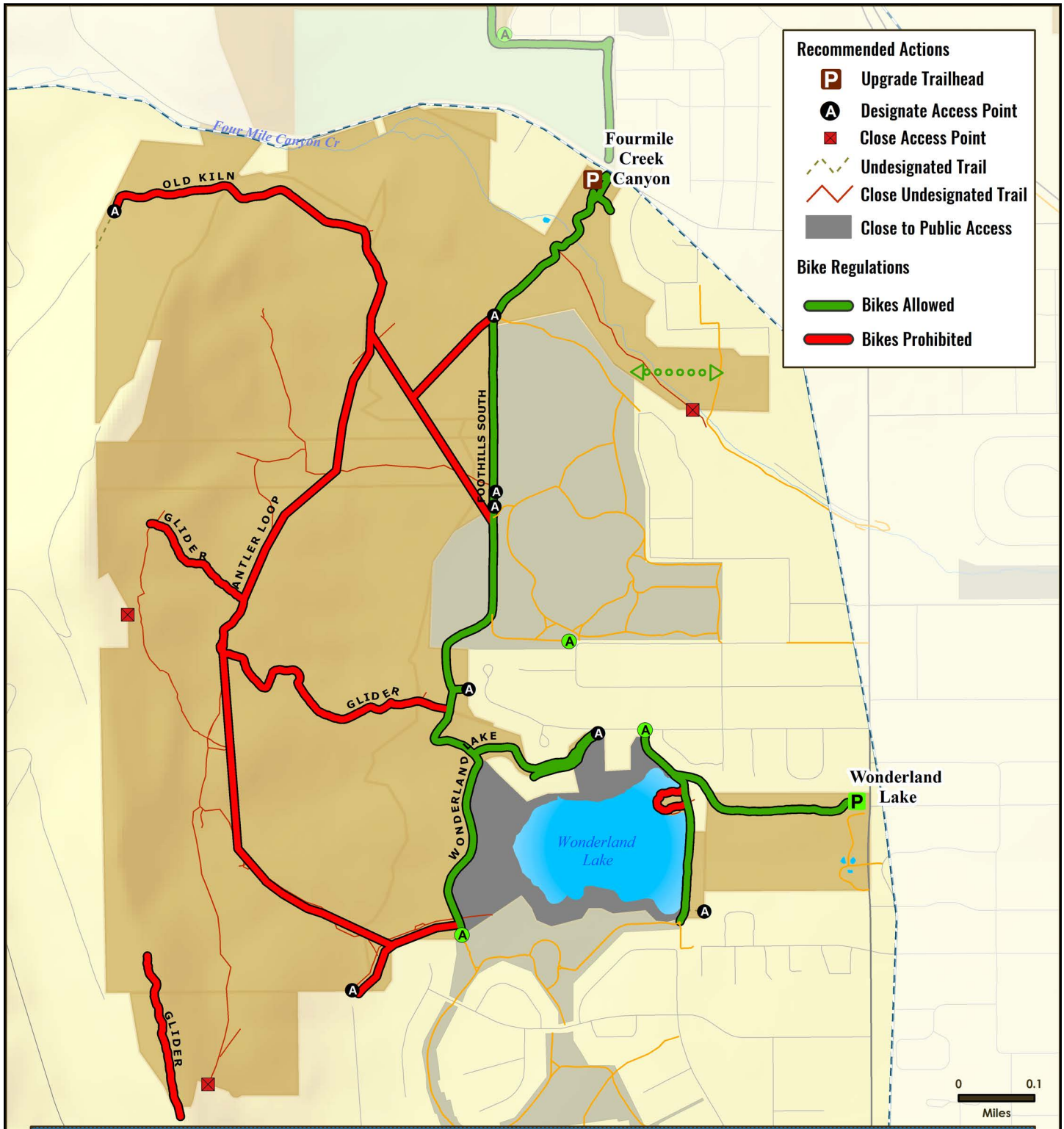
User: GardE1 Date: 5/11/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RegulationsMaps\Wonderland_Lake_Subarea\WonderlandLake_Subarea_Dogs.mxd

## MAP 30: Wonderland Lake - Bike Regulations

| TRAIL NAME | BIKE REGULATION |
|---|---|
| **New Trails** | |
| Wonderland Hill loop (Antler Loop) | Bikes Prohibited |
| **Existing and Re-routed Trails with No Changes to Existing Bike Regulations** | |
| Wonderland Lake trails | Bikes Allowed |
| Foothills South Trail | Bikes Allowed |
| Old Kiln Trail | Bikes Prohibited |
| Re-routed Wonderland Hill glider access (Glider Access Trail) | Bikes Prohibited |
| Wonderland Hill south glider access off Pine Needle Road | Bikes Prohibited |
| Wonderland Lake peninsula trail | Bikes Prohibited |

***There are no existing and re-routed trails with new bike regulations in this subarea.***

*Cyclists demonstrating the Fruita Lean, a practice that allows other visitors to pass while minimizing resource impacts.*




## MAP 30: Wonderland Lake - Bike Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point

Trail changes are depicted conceptually. Actual trail alignments will differ.

- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

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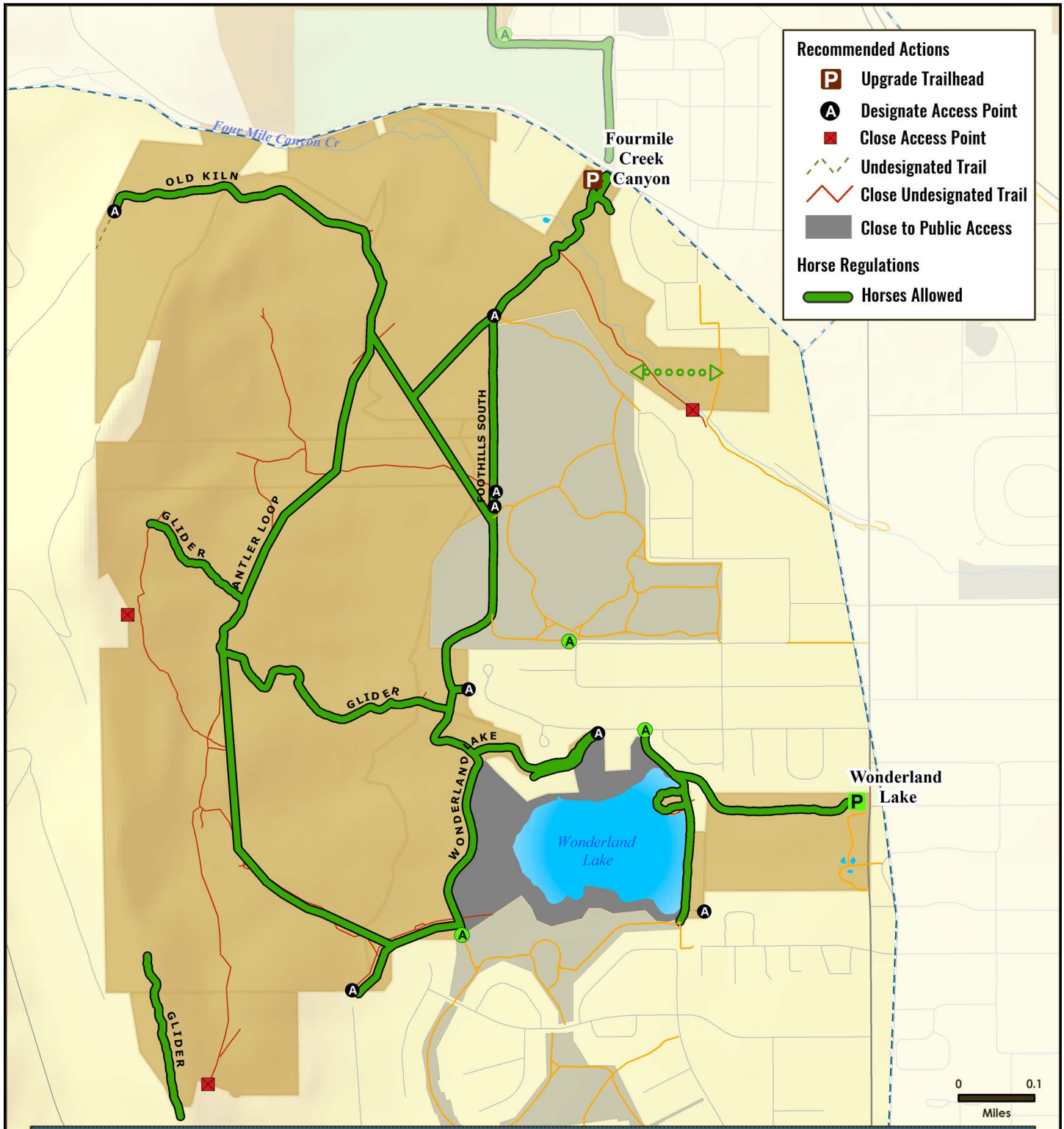
## MAP 31: Wonderland Lake - Trail-Based Horse Regulations

| TRAIL NAME | HORSE REGULATION |
|---|---|
| **New Trails** | |
| *Wonderland Hill loop (Antler Loop)* | *Horses Allowed* |
| **Existing and Re-routed Trails with No Changes to Existing Horse Regulations** | |
| *Foothills South Trail* | *Horses Allowed* |
| *Old Kiln Trail* | *Horses Allowed* |
| *Re-routed Wonderland Hill glider access (Glider Access Trail)* | *Horses Allowed* |
| *Wonderland Hill south glider access off Pine Needle Road* | *Horses Allowed* |
| *Wonderland Lake trails* | *Horses Allowed* |
| *Wonderland Lake peninsula trail* | *Horses Allowed* |

***Horses are allowed off-trail in this subarea.***




## MAP 31: Wonderland Lake - Trail-Based Horse Regulations

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point

**Trail changes are depicted conceptually. Actual trail alignments will differ.**

- Potential Future Connection
- OSMP Hiking/Equestrian Trail
- OSMP Multi-Use Trail
- OSMP Gliding Access
- Non-OSMP Managed Hiking Trail
- Non-OSMP Managed Multi-Use Trail

North Trail Study Area Lands
- OSMP Fee & Managed Property

Lands Not Included in the North Trail Study Area
- OSMP Easement or Jointly Owned, County-Managed Land
- Other Government Land

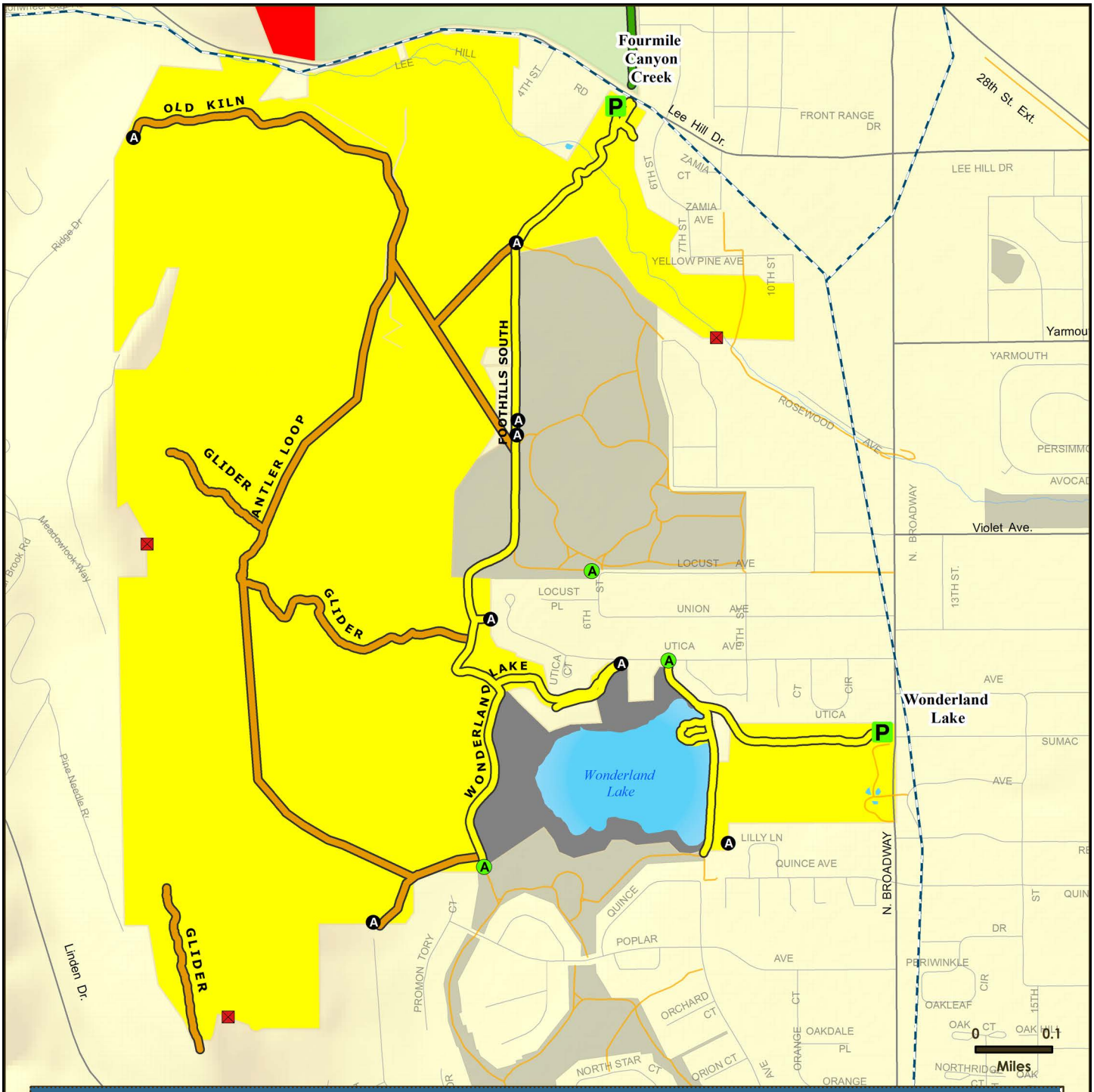
N

User: GardE1 Date: 5/11/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RegulationsMaps\Wonderland_Lake_Subarea\WonderlandLake_Subarea_Horses.mxd

## MAP 32: Wonderland Lake - Regulatory Settings

*Visitor access regulations pertain to the management of activities both on- and off-trail. The regulatory settings map includes on-trail and off-trail specific regulations where public access is restricted year-round, areas with seasonal wildlife closures and on-trail and off-trail dog regulations.*

*Dog walker and cyclists at Wonderland Lake.*




## MAP 32: Wonderland Lake - Regulatory Settings

- North Trail Study Planning Area
- North Trail Study Subareas
- OSMP Trailhead
- OSMP Access Point

**Visitor Access Regulations**

- New Access Point
- Close Access Point

**Trail Dog Regulations**

- Voice and Sight
- On-Corridor Voice and Sight
- Leash Required
- Dogs Prohibited

Trail changes are depicted conceptually. Actual trail alignments will differ.

**Dog Regulation Areas**

- Voice and Sight Control
- Leash Required
- Dogs Prohibited
- Closed to Public Access
- Other Government Land

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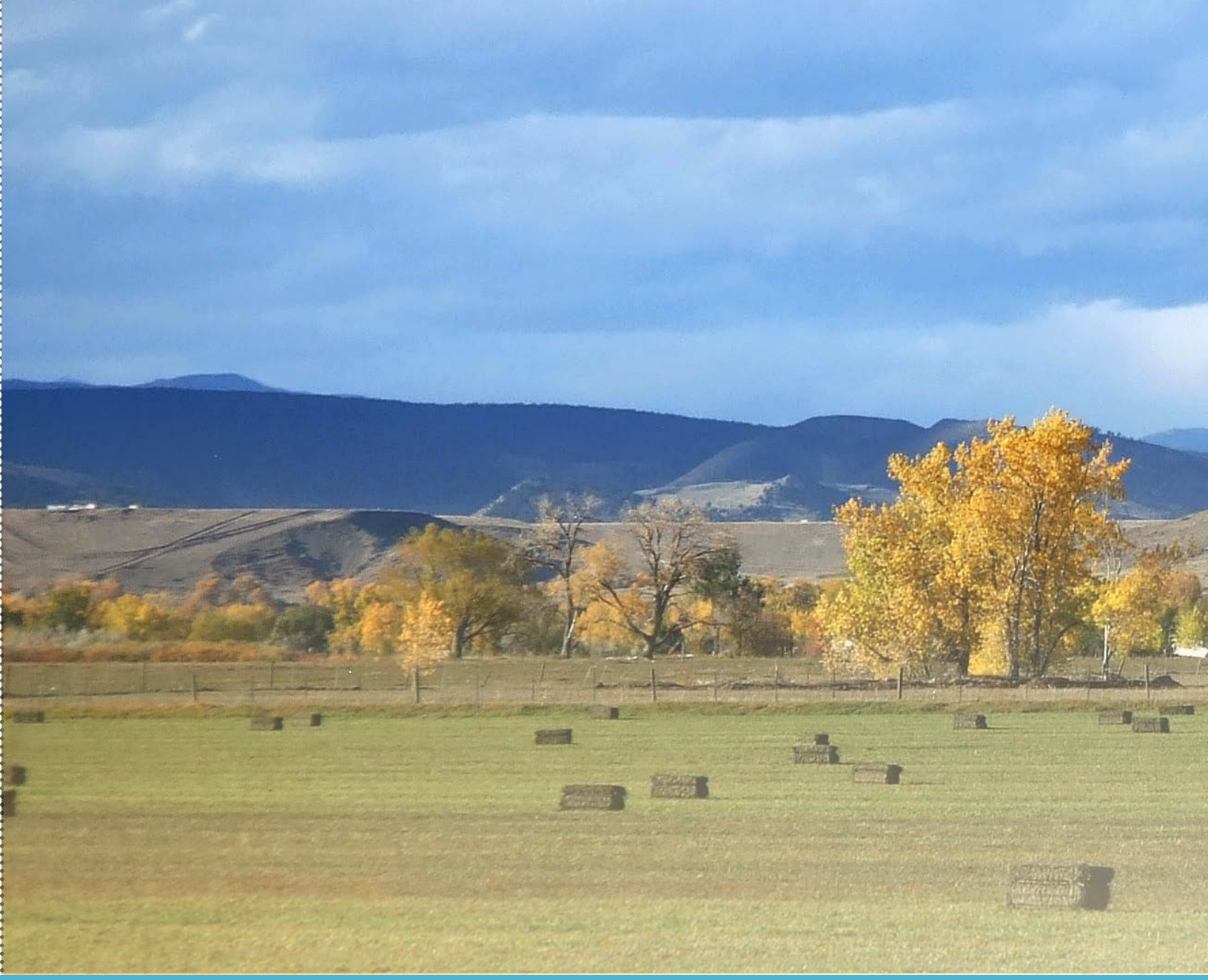


*Background photo: View towards Haystack Mountain across hayfields.*

# North TSA Plan Recommendations

## Northern Properties

## MAP 33: Northern Properties - Management Area Designations

### *Action NP1* Designate Berman Brothers as an Agricultural Area.

*Interests Met: 3**

#### Primary Goal

» *Implement VMP direction to provide management area designations for undesignated properties.*

#### Driving Factors/Benefits

» *Berman Brothers property has been designated as an agricultural land of statewide importance- suitable for hay or grazing with irrigation ditches.*

### *Action NP2* Designate Stratton property as a Natural Area.

*Interests Met: 4**

#### Primary Goal

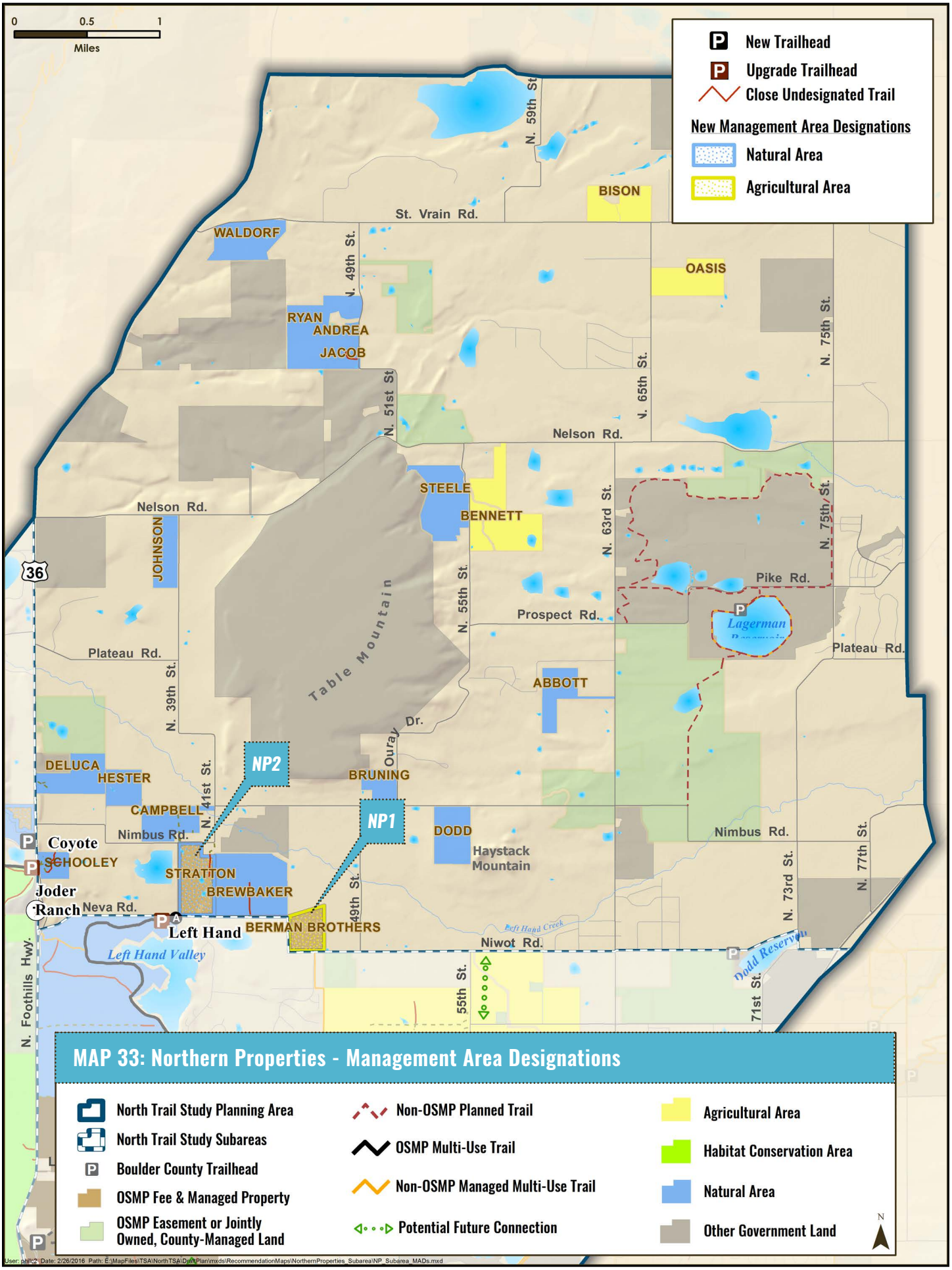
» *Implement VMP direction to provide management area designations for undesignated properties.*

#### Driving Factors/Benefits

» *Protect important natural resources throughout the property.*

» *Create healthy habitats for native amphibians, native fish and potentially Preble's meadow jumping mouse.*

*See Appendix D for a list of interests met by each action.


0
0.5
1
Miles
New Trailhead
Upgrade Trailhead
Close Undesignated Trail
New Management Area Designations
Natural Area
Agricultural Area
BISON
St. Vrain Rd.
WALDORF
OASIS
RYAN
ANDREA
JACOB
N. 59th St.
N. 49th St.
N. 65th St.
N. 75th St.
N. 51st St.
Nelson Rd.
STEELE
BENNETT
JOHNSON
36
Table Mountain
N. 63rd St.
N. 55th St.
Pike Rd.
Prospect Rd.
Lagerman
Plateau Rd.
ABBOTT
N. 39th St.
Ouray Dr.
DELUCA
HESTER
NP2
BRUNING
N. 41st St.
CAMPBELL
NP1
DODD
Nimbus Rd.
Haystack Mountain
Coyote
SCHOOLEY
STRATTON
BREWBAKER
Joder Ranch
Neva Rd.
Left Hand
BERMAN BROTHERS
49th St.
Left Hand Creek
Niwot Rd.
Left Hand Valley
N. Foothills Hwy.
N. 73rd St.
N. 77th St.
55th St.
71st St.
Dodd Reservoir
MAP 33: Northern Properties - Management Area Designations
North Trail Study Planning Area
North Trail Study Subareas
Boulder County Trailhead
OSMP Fee & Managed Property
OSMP Easement or Jointly Owned, County-Managed Land
Non-OSMP Planned Trail
OSMP Multi-Use Trail
Non-OSMP Managed Multi-Use Trail
Potential Future Connection
Agricultural Area
Habitat Conservation Area
Natural Area
Other Government Land
N

## MAP 34: Northern Properties - Subarea-Wide Recommendations

» *As opportunities arise, collaborate with partner agencies to create regional connections in a way that minimizes natural resource impacts.*

### Primary Goal

» *Enhance regional connectivity and the creation of safe road crossings and trail connections.*

### Driving Factors/Benefits

» *Provide greater opportunities for visitors and interconnectivity among adjacent trail systems.*

» *Coordination/collaboration among OSMP and partner agencies to accomplish regional connections.*

**ACTION NP3 Collaborate to create a connection between the North TSA to Boulder County Parks and Open Space's Lagerman/ Imel/AHI Open Space Complex.**

*Interests Met: 3**

### Primary Goal

» *Conserve natural and agricultural resources.*

### Driving Factors/Benefits

» *The OSBT supported maintaining the current closed to public access status of these Northern Properties.*

**ACTION NP4 Prohibit public access on Waldorf, Ryan, Andrea, Jacob, Bison, Oasis, Steele, Bennett, Stratton, Brewbaker, Berman Brothers, Dodd and Abbott properties.**

### Primary Goal

» *Allow access to properties while protecting bobolinks and their habitat.*

### Driving Factors/Benefits

» *The OSBT supported the current access status of the Northern Properties except that the Deluca, Hester and Campbell properties be closed May 1 - July 31 for protection of ground nesting bobolinks.*

**ACTION NP5 Allow public access on Deluca, Hester and Campbell properties with seasonal closure (May 1 - July 31) for ground nesting bobolinks.**

### Primary Goal

» *Allow access to properties where impacts to natural and agricultural resources are less of a concern.*

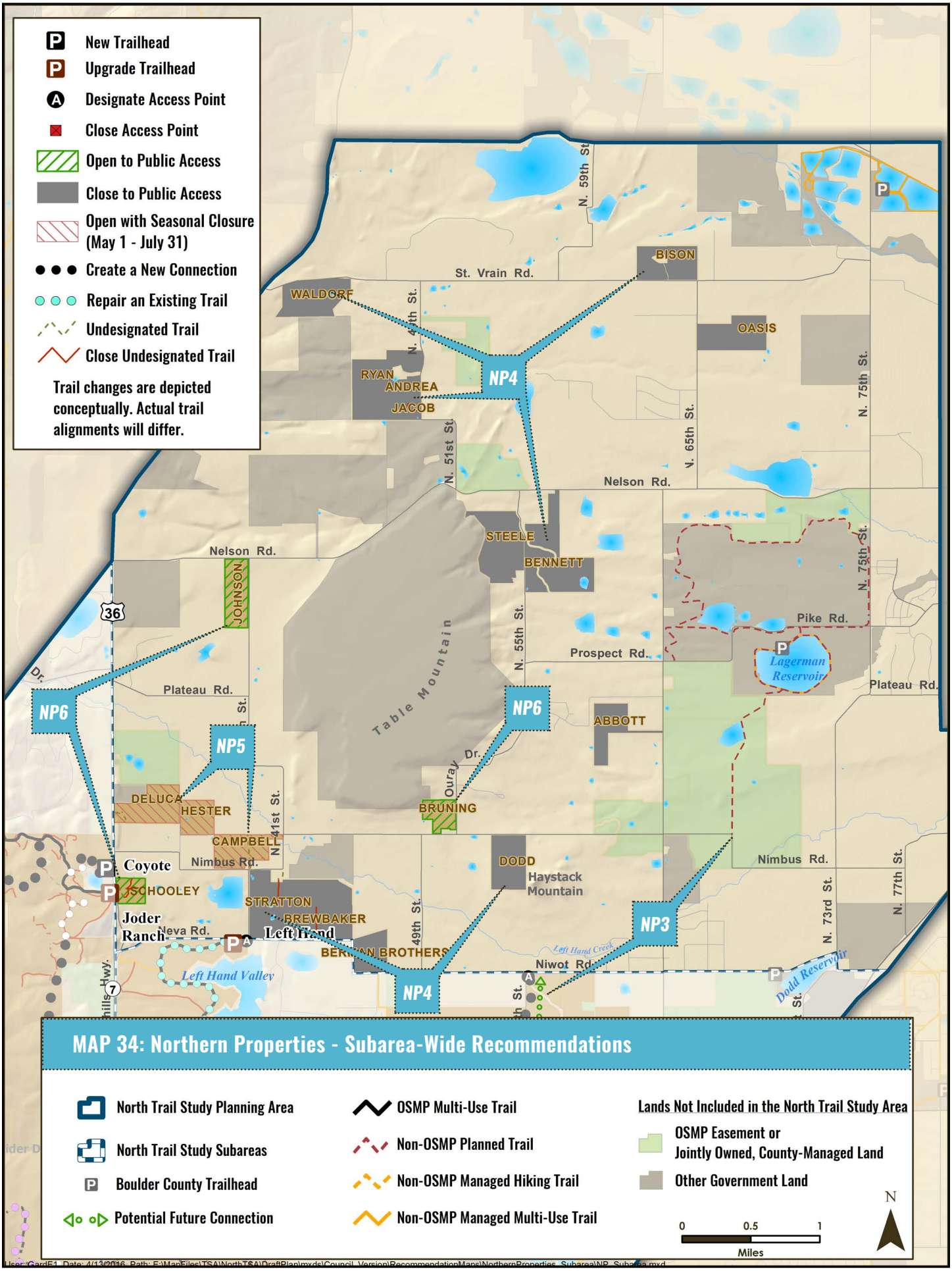
### Driving Factors/Benefits

» *The OSBT supported maintaining the current open to public access status of these Northern Properties.*

**ACTION NP6 Allow public access on Johnson, Bruning and Schooley properties.**

***IMPORTANT NOTE*: The development of undesignated trails will be discouraged in the management of northern properties open to public access. Generally, future trail development on both open and closed northern properties will be evaluated in the context of regional trail connectivity, OSMP resources and be evaluated through regional planning processes to link existing trail networks and conserve important resources.**

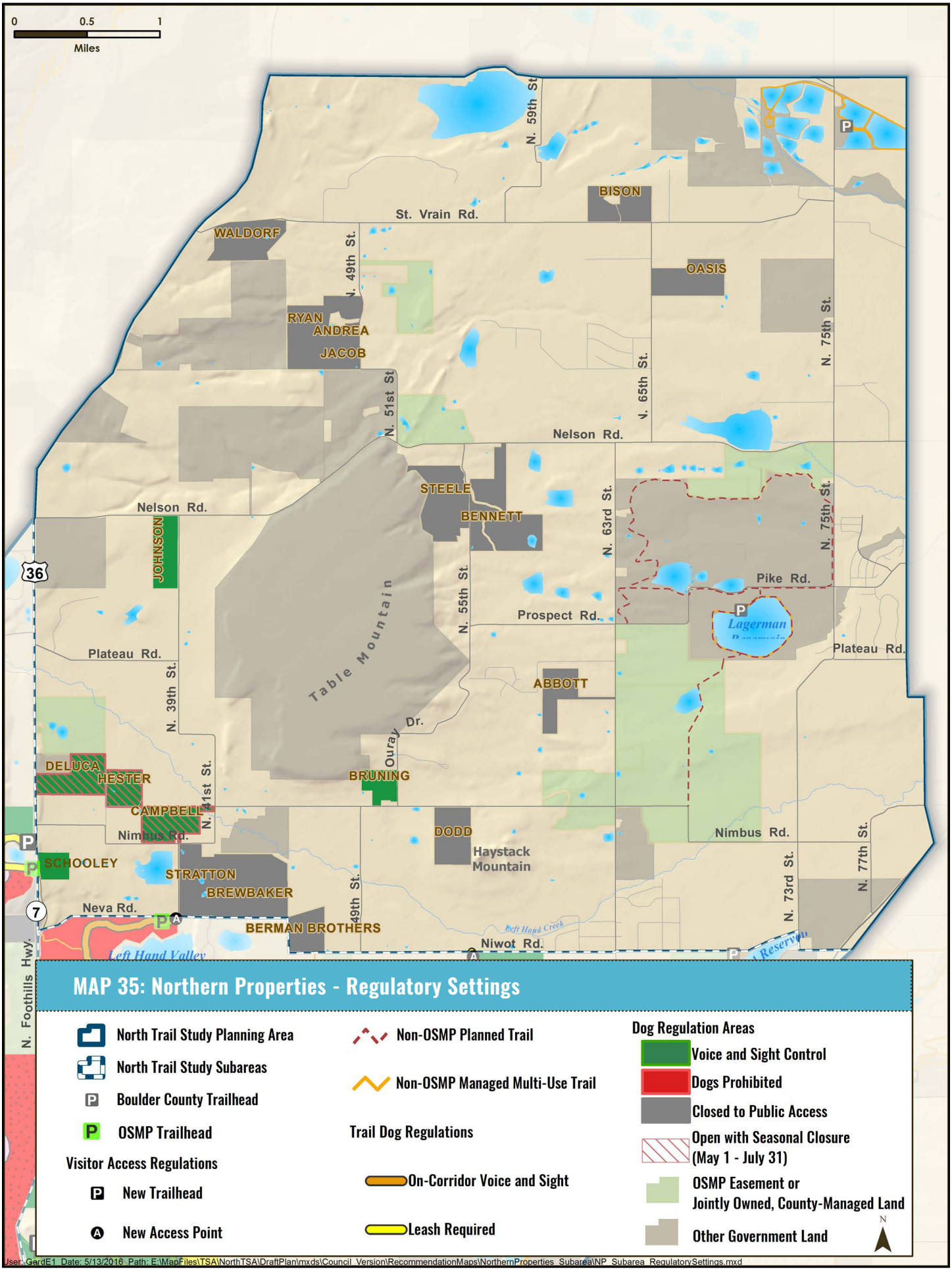
*See Appendix D for a list of interests met by each action.


New Trailhead
Upgrade Trailhead
Designate Access Point
Close Access Point
Open to Public Access
Close to Public Access
Open with Seasonal Closure (May 1 - July 31)
Create a New Connection
Repair an Existing Trail
Undesignated Trail
Close Undesignated Trail
Trail changes are depicted conceptually. Actual trail alignments will differ.
St. Vrain Rd.
BISON
WALDORF
OASIS
RYAN
ANDREA
JACOB
NP4
N. 59th St.
N. 47th St.
N. 51st St.
N. 65th St.
N. 75th St.
Nelson Rd.
STEELE
BENNETT
JOHNSON
36
Pike Rd.
Lagerman Reservoir
Prospect Rd.
Plateau Rd.
Table Mountain
NP6
NP5
ABBOTT
Ouray Dr.
BRUNING
DELUCA
HESTER
CAMPBELL
N. 41st St.
Nimbus Rd.
Coyote
SCHOOLEY
Joder Ranch
Neva Rd.
STRATTON
BREWBAKER
Left Hand
BERTRAND BROTHERS
Left Hand Valley
DODD
Haystack Mountain
49th St.
NP3
N. 73rd St.
N. 77th St.
Left Hand Creek
Niwot Rd.
Dodd Reservoir
MAP 34: Northern Properties - Subarea-Wide Recommendations
North Trail Study Planning Area
North Trail Study Subareas
Boulder County Trailhead
Potential Future Connection
OSMP Multi-Use Trail
Non-OSMP Planned Trail
Non-OSMP Managed Hiking Trail
Non-OSMP Managed Multi-Use Trail
Lands Not Included in the North Trail Study Area
OSMP Easement or Jointly Owned, County-Managed Land
Other Government Land
0
0.5
1
Miles
N

## MAP 35: Northern Properties - Regulatory Settings

*Visitor access regulations pertain to the management of activities both on- and off-trail. The regulatory settings map includes on-trail and off-trail specific regulations where public access is restricted year-round, areas with seasonal wildlife closures and on-trail and off-trail dog regulations.*

*A historic house on the Johnson property.*


0
0.5
1
Miles
St. Vrain Rd.
BISON
WALDORF
OASIS
RYAN
ANDREA
JACOB
N. 59th St.
N. 49th St.
N. 75th St.
N. 65th St.
N. 51st St
Nelson Rd.
STEELE
BENNETT
JOHNSON
36
N. 63rd St.
Pike Rd.
Prospect Rd.
Lagerman
Plateau Rd.
N. 55th St.
Table Mountain
ABBOTT
N. 39th St.
Ouray Dr.
DELUCA
HESTER
BRUNING
CAMPBELL
N. 41st St.
Nimbus Rd.
DODD
Haystack Mountain
SCHOOLEY
STRATTON
BREWBAKER
N. 73rd St.
N. 77th St.
Neva Rd.
7
BERMAN BROTHERS
49th St.
Left Hand Creek
Niwot Rd.
Left Hand Valley
N. Foothills Hwy.
MAP 35: Northern Properties - Regulatory Settings
North Trail Study Planning Area
North Trail Study Subareas
Boulder County Trailhead
OSMP Trailhead
Visitor Access Regulations
New Trailhead
New Access Point
Non-OSMP Planned Trail
Non-OSMP Managed Multi-Use Trail
Trail Dog Regulations
On-Corridor Voice and Sight
Leash Required
Dog Regulation Areas
Voice and Sight Control
Dogs Prohibited
Closed to Public Access
Open with Seasonal Closure (May 1 - July 31)
OSMP Easement or Jointly Owned, County-Managed Land
Other Government Land
N
User: GardE1 Date: 5/13/2016 Path: E:\MapFiles\TSA\NorthTSA\DraftPlan\mxds\Council_Version\RecommendationMaps\NorthernProperties_Subarea\NP_Subarea_RegulatorySettings.mxd

*Background photo: Female Northern Harrier flying low over a field. © Dan Baldwin.*

# North TSA Plan Appendices


APPENDIX A: TSA-Wide and Subarea Maps

APPENDIX B: Open Space Board of Trustees Meetings and Summary of Community Engagement

APPENDIX C: Existing Infrastructure and Recommended Improvements for Trailheads

APPENDIX D: Recommended Actions and Interests Table

APPENDIX E: Scheduling and Estimated Costs for North TSA Projects

APPENDIX F: Feedback Themes Not Included in the Plan

APPENDIX G: Glossary