2019-2020 Public Lands Transportation Fellows Program







Presented by: Nate Begay and Jennifer Owen-White, Valle de Oro NWR











Webinar logistics

- Duration is 1:00 2:30 PM Eastern
- Webinar recorded and archived. For quality of recording, phone will be muted during presentation
- If listening on the phone, please mute your computer
- To maximize the presentation on your screen click the
 4 arrows in the top right of the presentation
- At the end there will be time for Q&A
- There is a handout pod at the bottom of the screen











Today's Presenters



Jennifer Owen-White
Refuge Manager
Valle de Oro National Wildlife Refuge (NWR)



Nate Begay
Public Lands Transportation Fellow (PLTF)
Valle de Oro National Wildlife Refuge
(NWR)











Goal of this Webinar

To document and archive the work completed by the PLTF at the Valle de Oro NWR from 2019-2020, including his lessons learned and tips and tricks for applying these to other USFWS units.











Audience for this Webinar

• Today:

 Educate unit, regional, and headquarters staff for public lands agencies on what a Fellow in the program can accomplish.

• Future:

 Intended as a training for future classes of PLTF and will be used at orientation.









Agenda

- Introduction by Refuge
 Manager
- Introduction by the Fellow
- 3. PLTF Projects
- 4. Lessons Learned for Future Fellows
- 5. General Suggestion
- 6. Q&A







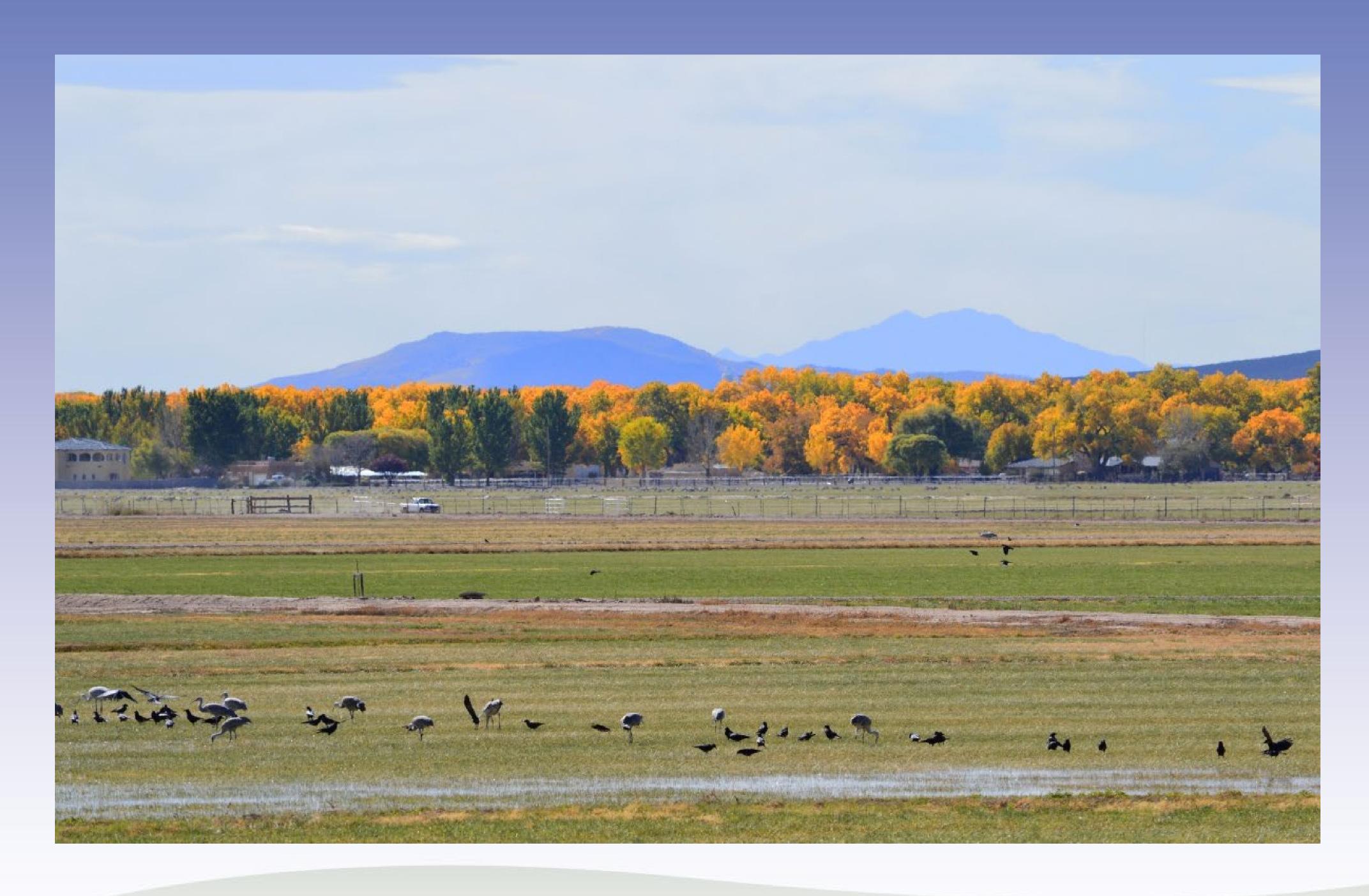








Land Acknowledgement













Safe Place Policy



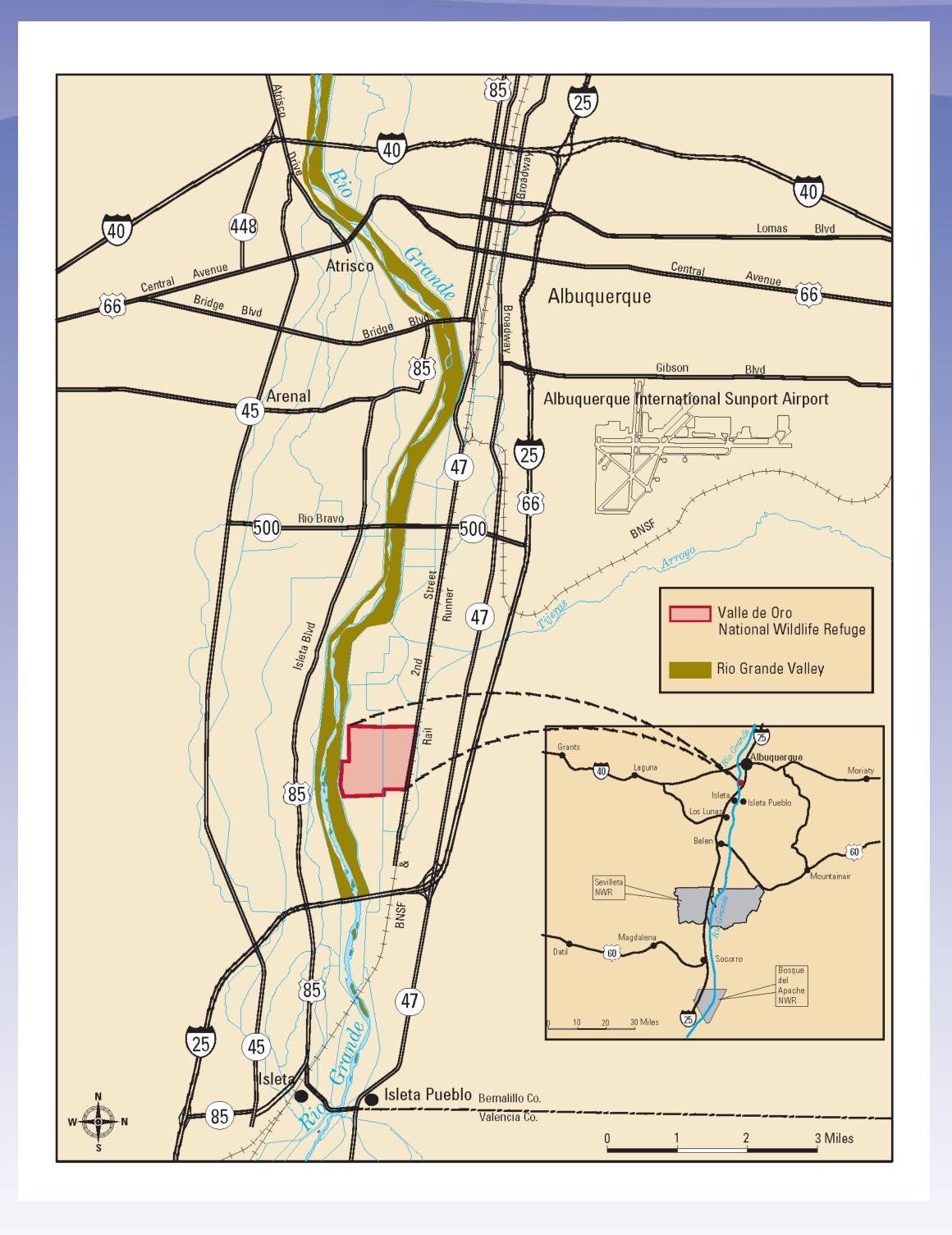
- At Valle de Oro NWR, we have a nondiscrimination and Zero Tolerance Policy- a Safe Place Policy- at the refuge, where our tagline is "Growing a safe and healthy environment for wildlife and people."
 - Valle de Oro National Wildlife Refuge strives to create and foster an inclusive experience for all visitors, volunteers, interns, partners, and employees. We wish for the refuge to be a safe and healthy environment for wildlife and people.





















Future of Valle de Oro NWR Goals and Visions















Introduction

Name: Nate Begay

Primary Refuge: Valle de Oro NWR

Start Date: September 3, 2019

Place of Birth: Gallup, NM

Educational Background: M.C.R.P. and

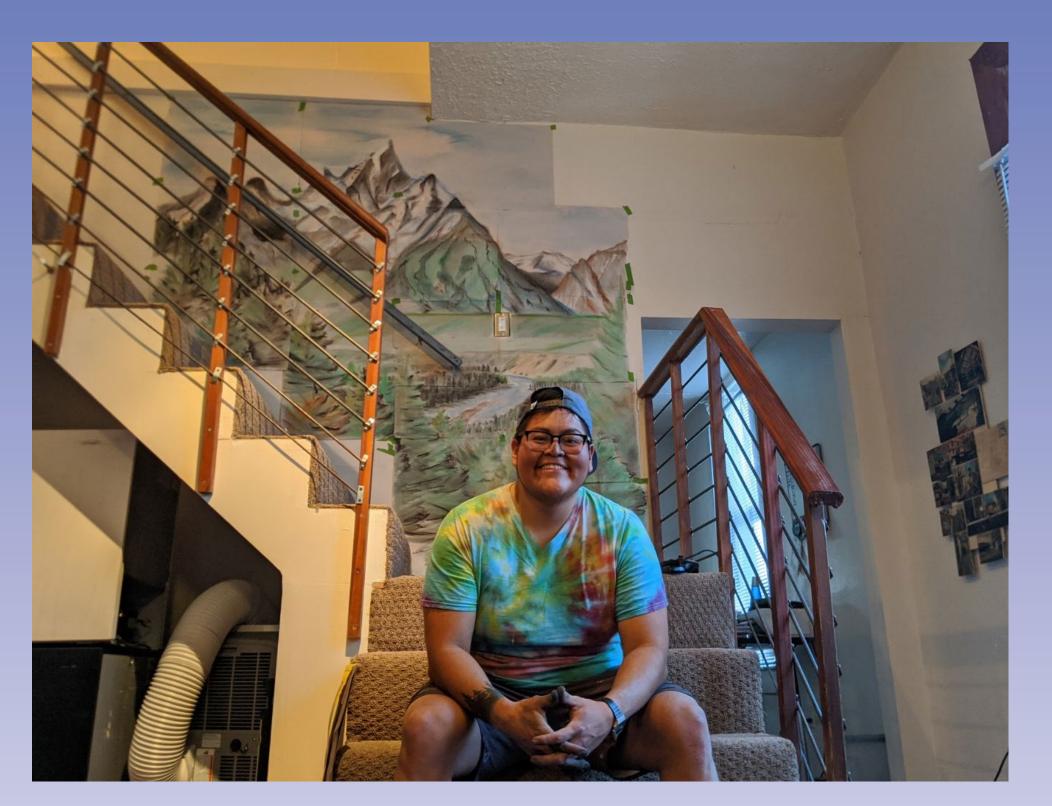
B.A. in Environmental Planning and

Design, University of New Mexico

Academic Focus:

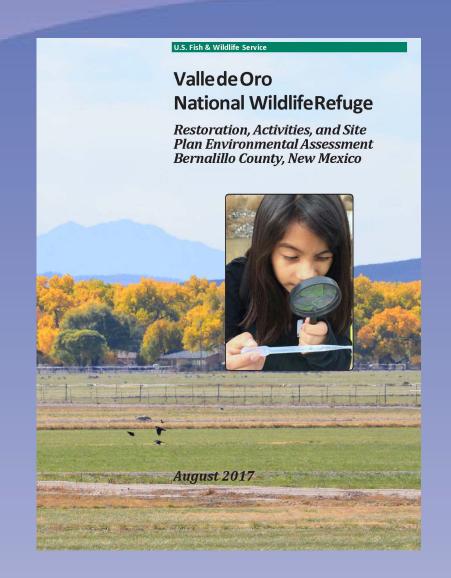
Physical planning and design, historic preservation, cultural planning and community development

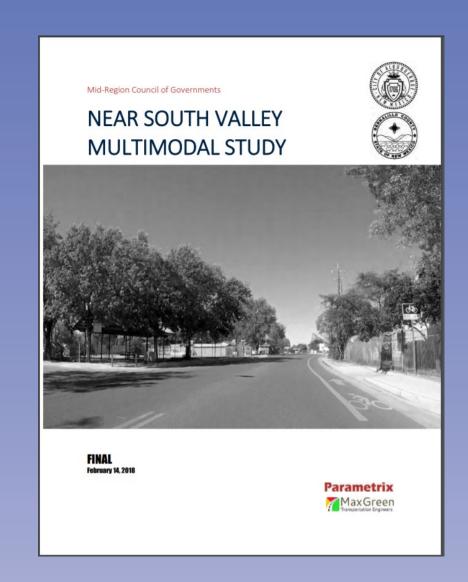
Fun Fact: Nate's favorite past times are drawing murals and napping outside

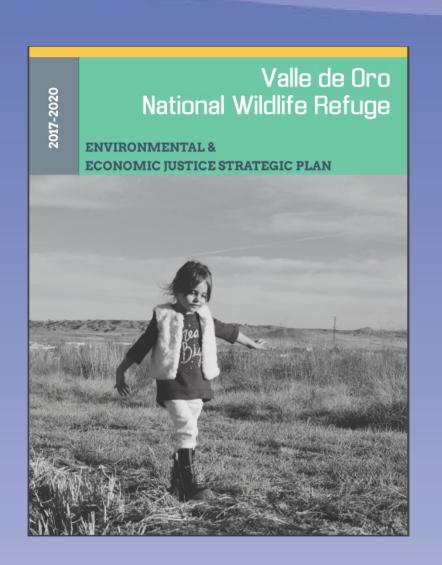




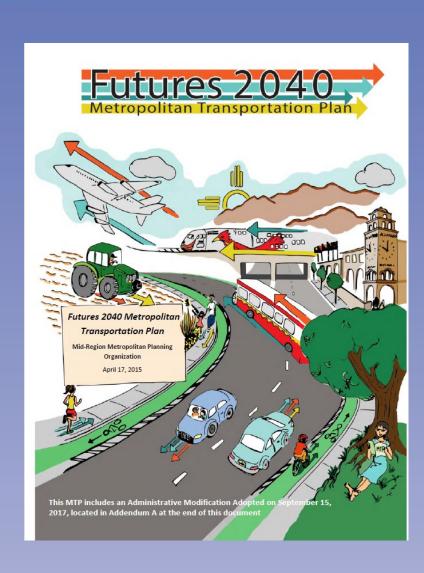
Valle de Oro NWR- Context and landscape

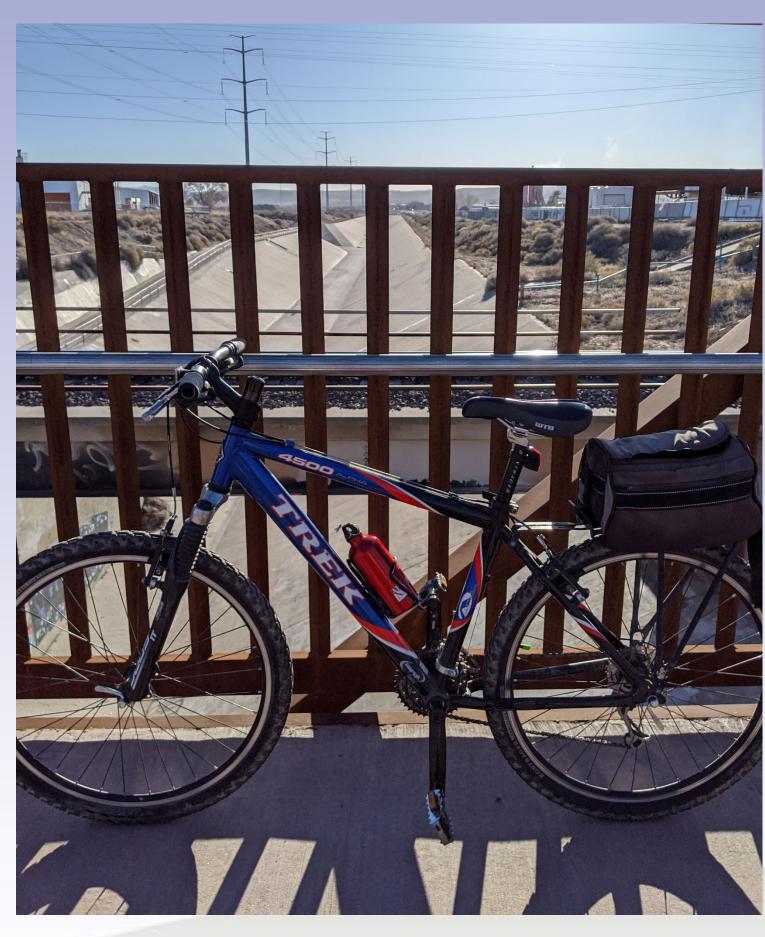
























Fellow's Projects

- Bus Service
- Shuttle Service
- Rail Runner Express Connection
- Trail Network Design
- Outdoor Classroom
- Refuge Access Plan
- FLAP I landscaping Improvements

- FLAP II 2nd street improvements
- Electric Vehicle public Charging
 Station
- Signage and Wayfinding
- Refuge map
- Bike Share
- Quiet Crossing
- Art and Design Projects



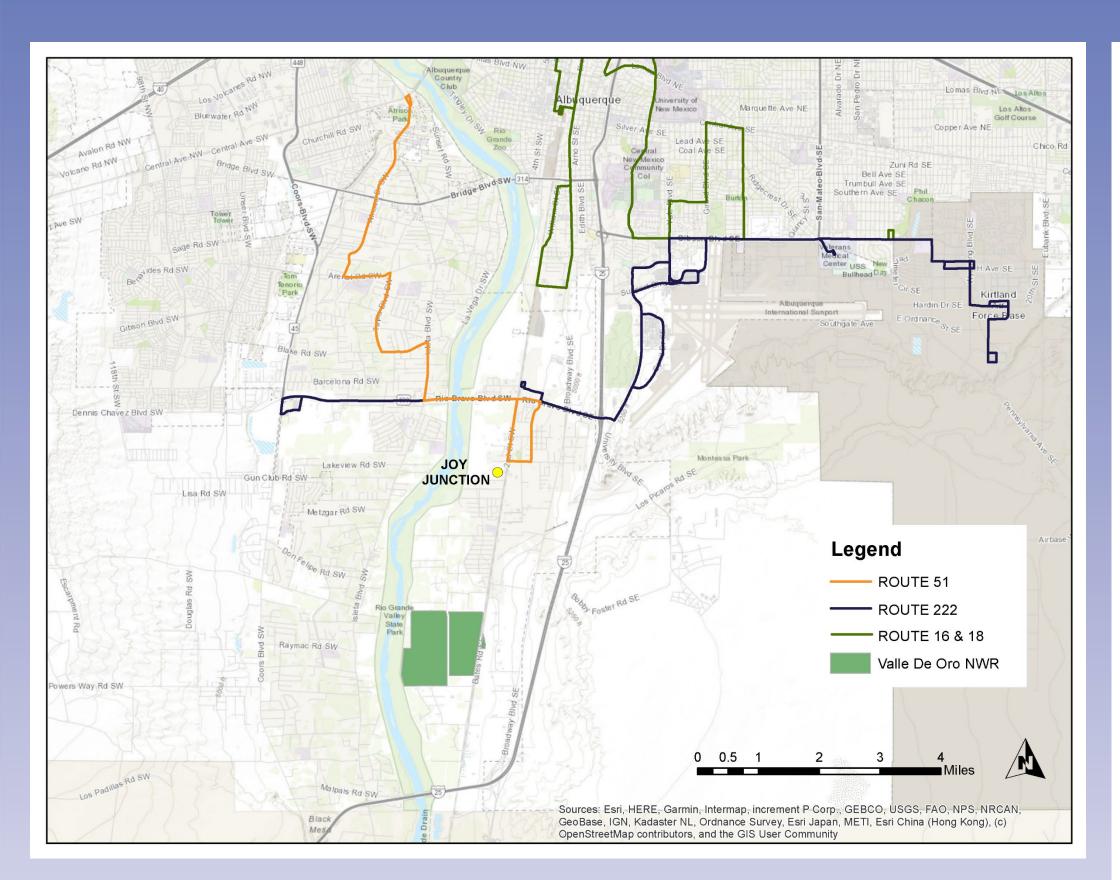






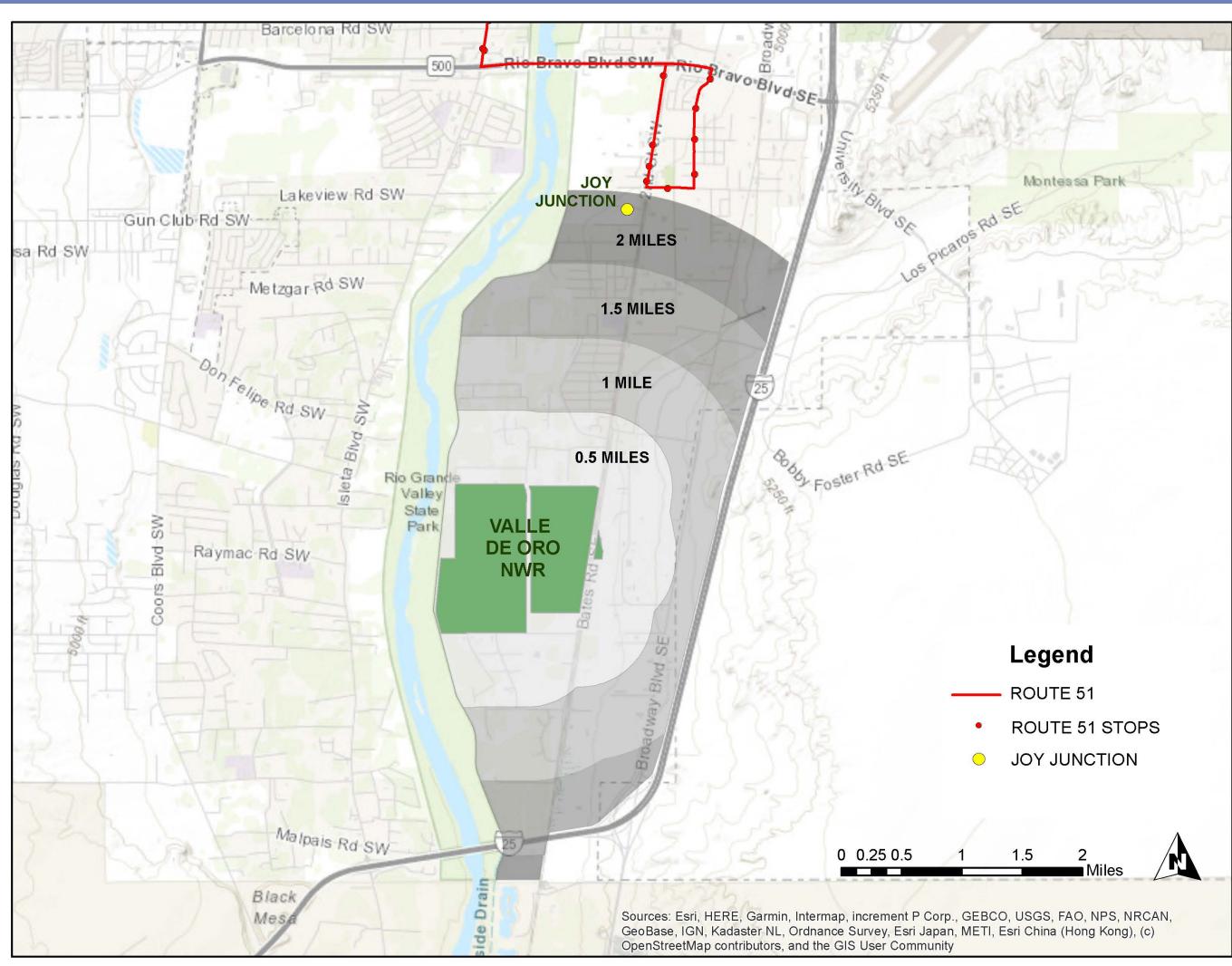


Bus Service



Needs:

- Funding for bus vehicle
- Funding for operations and maintenance
- Bus shelters and signage



Route	Length	Annual	Service	Total	Total	Average Boarding Hours (2015)				
		Miles		Service	Annual	AM	Mid-	PM	Evening	
		Driven		Hours	Ridership		Day			
51	3.6 mi.	67,886	Weekday, Saturday	4,094	189,572	19.4	20.7	22.2	-	











Bus Service

Solution

- Advocate for Capital Outlay funding from the state
- Partner with ABQ Ride and Bernalillo
 County for O&M
- Partner with community organizations
- Capital Outlay
 - State funds for capital improvements
 - Work with State Representative and County representatives
- Outcomes and Next Steps

PROVIDING BUS ACCESS TO VALLE DE ORO NATIONAL WILDLIFE REFUGE



OBJECTIVE: PROVIDE BUS SERVICE TO VALLE DE ORO NWR, JOY JUNCTION HOMELESS SHELTER, AND THE MOUNTAIN VIEW COMMUNITY BY ASSISTING ABQ RIDE ACQUIRE AT BUS FOR THEIR FLEET.

CURRENTLY, ROUTE 51 IS THE CLOSEST BUS ROUTE TO VALLE DE ORO, STOPPING 2.5 MILES NORTH OF THE REFUGE. WITH THE FUTURE VISITOR CENTER, THE REFUGE CAN FUNCTION AS A BUS TURN-AROUND, ALLOWING BUSES TO TRAVEL FURTHER SOUTH. IN ADDITION, JOY JUNCTION HOMELESS SHELTER LOCATED NORTH OF THE REFUGE DOES NOT HAVE SUFFICIENT BUS SERVICE. THEIR STOP IS LOCATED 1,000 FT NORTH OF THEIR ENTRANCE WITH NO CONSISTENT SIDEWALK TO SERVE THE AREA.

PROJECT OUTCOMES:

- EXTEND ROUTE 51 DOWN 2ND STREET
- IMPROVE EQUITABLE ACCESS FOR THE REFUGE AND SURROUNDING COMMUNITIES
 IMPROVE SERVICE TO JOY JUNCTION
- PROVIDE ACCESS TO OUTDOOR
- RECREATIONAL OPPORTUNITIES
 DEEPEN CONNECTION OF URBAN POPULATIONS TO GREEN SPACE

INITIAL CAPITAL COSTS

\$665,000

COMPRESSED
NATURAL GAS BUS

STATE CAPITAL

(Assumes 4% annual price escalation since last purchase in 2015 at \$540,000 per CNG bus plus ~5% contingency.)

FUNDING SOURCES FOR BUS

\$300,000

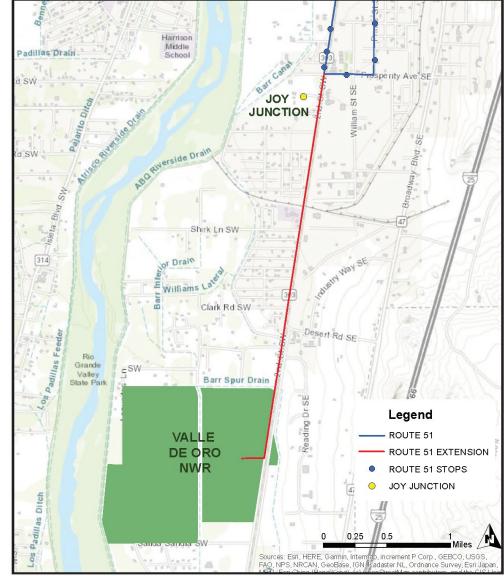
\$365,000

\$665,000

OUTLAY (REQUESTED AMOUNT)

FUTURE GRANT
SOURCES
(LOW OR NO EMISSIONS PROGRAM
OR OTHER FUNDING SOURCES)

TOTAL BUS COST



EXISTING ROUTE 51 (IN BLUE) AND PROPOSED EXTENDED ROUTE (IN RED) TO VALLE DE ORO.

IMPROVED BUS SERVICES FOR ROUTE 51

BUS SERVICES TO THE REFUGE IT WILL
INCREASE FREQUENCY FOR SERVICES
THROUGHOUT ROUTE 51 OVERALL

CURRENT

BUS ROUTE
CURRENTLY RUNS
WEEKDAYS AND
SATURDAYS
54 MIN. RUN TIME

BUS ROUTE
ADD 5.1 MI. TO
ROUTE AND 17 MIN.
RUNTIME
82 MIN. RUN TIME

ALTERED

WITH 1 BUS 65 MIN. HEADWAY WITH 2 BUSES
45 MIN. HEADWAY

PARTNERING ORGANIZATIONS













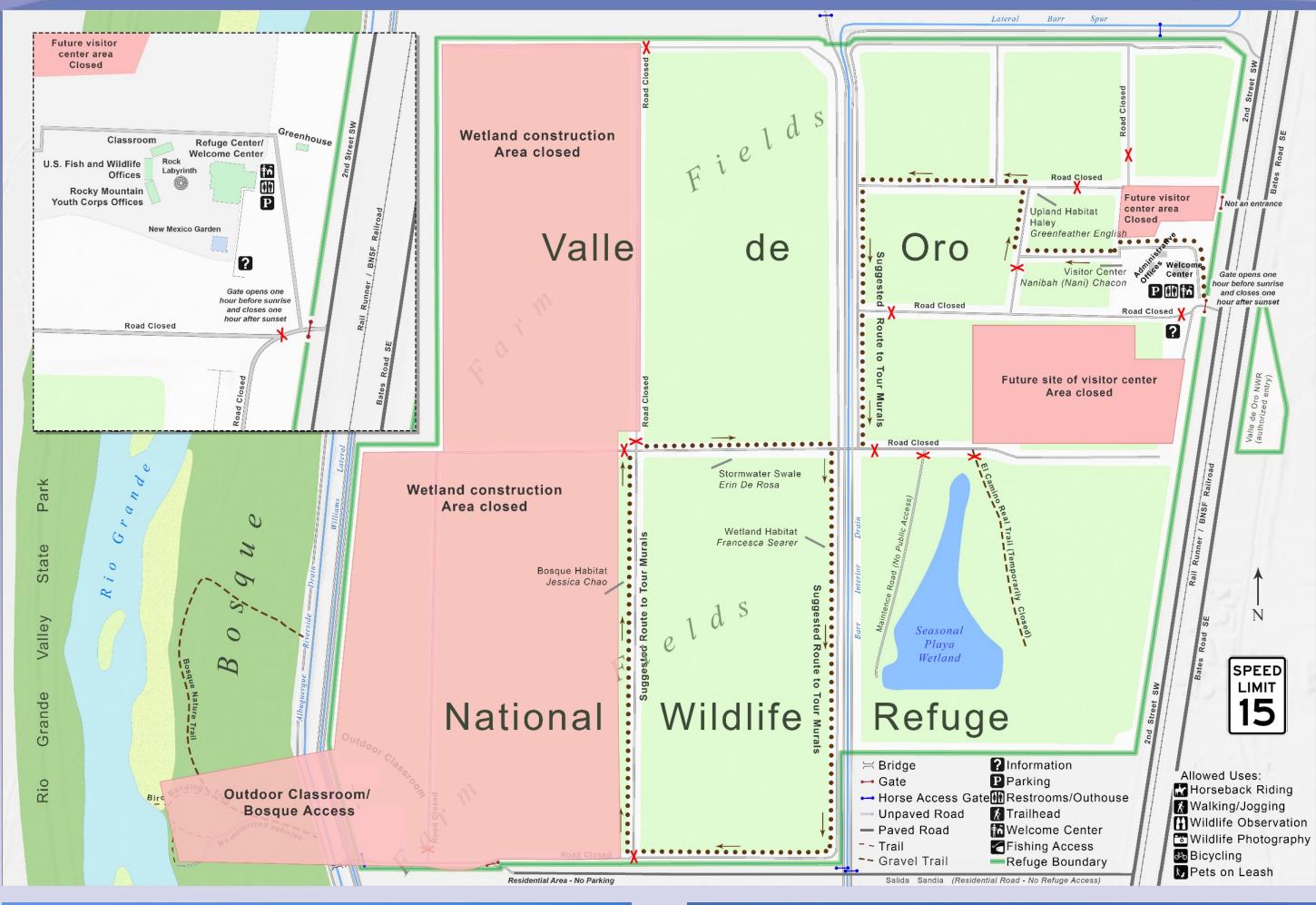


NATIONAL WILDLIFE REFUGE SYSTEM





Trail Network Design







- Currently, the trail network consists of farm roads
- Looking to convert trail network to align with
- Elements of Trail Design:
 - Trail alignment
 - Surfacing
 - Accessibility
 - Amenities
 - Signage and Wayfinding





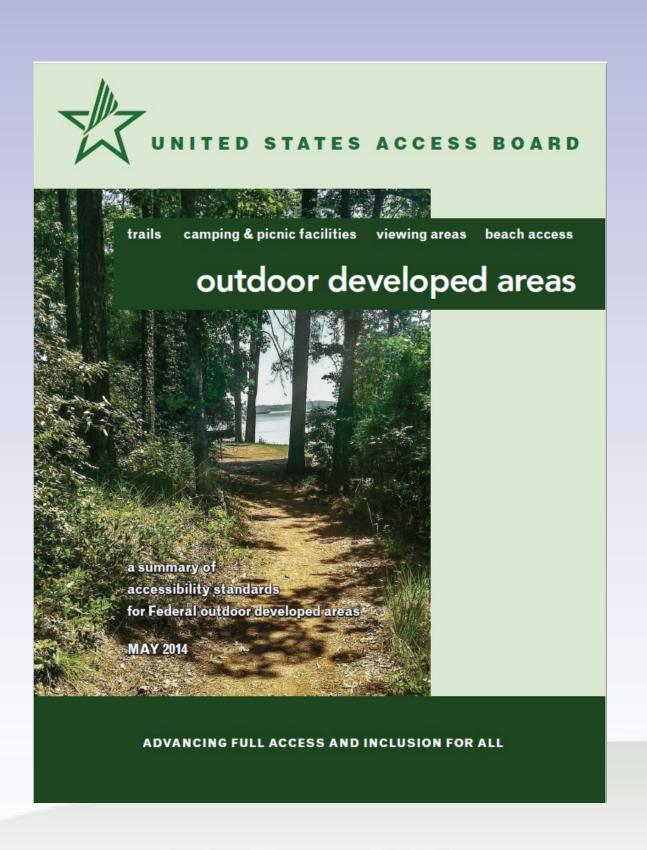






Trail Network Design

- Planning for the future of the trail network
 - Create a trail amenities plan
 - Create initial trail cost estimates
 - Create ABA standards
 checklist and example guide





Project	Туре	Details	Unit	Amount	Unit Price	Unit Price	Unit Price	Estimated	Estimated	Estimated
				Low			Average	Low Cost	High Cost	Average Cost
Trail Amenities	Small Shade Structures	24' x 24' shade structure construction cost (high with 20% continge	en Ea.	6	27,282.00	100,000.00	27,282.00	27,282.00	100,000.00	163,692.00
	Large Shade Structures	30' x 30' shade structures capable of accommodating 4 people (hig	gh Ea.	4	27,282.00	100,000.00	49,107.60	27,282.00	400,000.00	196,430.40
	Picnic tables	6 ft. Wood picnic table (low), 8 ft wood picnic table (high)	Ea.	4	293.00	386.00	339.50	1,172.00	1,544.00	1,358.00
	Benches	Park bench with back (low) Recycled plastic bench (high)	Ea.	12	250.53	735.00	1,765.06	3,006.36	8,820.00	21,180.72
	Bike Racks	Bike Racks, standard U Rack (low) and custom racks (high)	Ea.	2	72.88	4,110.89	751.58	145.76	8,221.78	1,503.16
	Bike Repair Stations	Deluxe Public Work Stand. Low unit price is standard station. High	U Ea.	1	915.00	1,750.00	1,332.50	915.00	1,750.00	1,332.50
	Dog Waste Stations	Dog waste station with bags and trashcan	Ea.	12	229.99	299.99	264.99	2,759.88	3,599.88	3,179.88
	Trashcans/Recycling Receptacle	Standard steel trashcan/recycling receptacle	Ea.	12	353.01	3,666.78	1,617.03	4,236.12	44,001.36	19,404.36
		1 1				I I				
		ESTIMATED TOTALS						66,799.12	567,937.02	408,081.02
		10% CONTINGENCY						73,479.03	624,730.72	448,889.12
		15% CONTINGENCY				l		76,818.99	653,127.57	469,293.17
						i L				
						l 				
Trail Estimates	Shared -use Path, paved	Construction costs based on 8 ft paved trail	Miles		64,710.00	4,288,520.00	261,000.00	452,970.00	30,019,640.00	1,827,000.00
Trail Estimates	Shared -use Path, unpaved	Construction cost based on 8 ft unpaved trail	Miles	10.00	32,603.02	455,823.84	134,067.79	326,030.20	4,558,238.40	1,340,677.90
Driveable Trails	Design and Engineering	Construction costs based on estimate from CF Padilla, 10ft road	Miles	7.00	92,730.00	92,730.00	92,730.00	649,110.00	649,110.00	649,110.00
Pedestrian Trails	Multi-use Trail-Unpaved	3 ft wide soft-surface trail	Miles	10	58,314.35	58,314.35	58,314.35	583,143.50	583,143.50	583,143.50
Trail-Additional Structures	Boardwalk	Wooden boardwalk, 8 ft wide	Miles	0	872,433.70	4,739,671.58	2,452,957.87	0.00	0.00	0.00
		ESTIMATED TOTALS						1,232,253.50	1,232,253.50	1,232,253.50
		10% CONTINGENCY						1,355,478.85	1,355,478.85	1,355,478.85
		15% CONTINGENCY		l I		1,417,091.53	1,417,091.53	1,417,091.53		
						l I				
] 				l I				
Trail Signage	Trailhead signage	Basic signage around communities	ea	12	148.04	592.15	387.18	1,776.48	7,105.80	4,646.16
	Interpretive Signage/waysides	3' x 2' fused polycarbonate signs mounted on frames.	Ea.	1	3,448.29	4,855.19	4,151.74	3,448.29	4,855.19	4,151.74
	Kiosks	Wood kiosk with bulletin board and overhang	Ea.	1	4,971.00	69,607.00	23,170.00	4,971.00	69,607.00	23,170.00
		1								
		ESTIMATED TOTALS						10,195.77	81,567.99	31,967.90
		10% CONTINGENCY						11,215.35	89,724.79	35,164.69
		15% CONTINGENCY						11,725.14	93,803.19	36,763.09



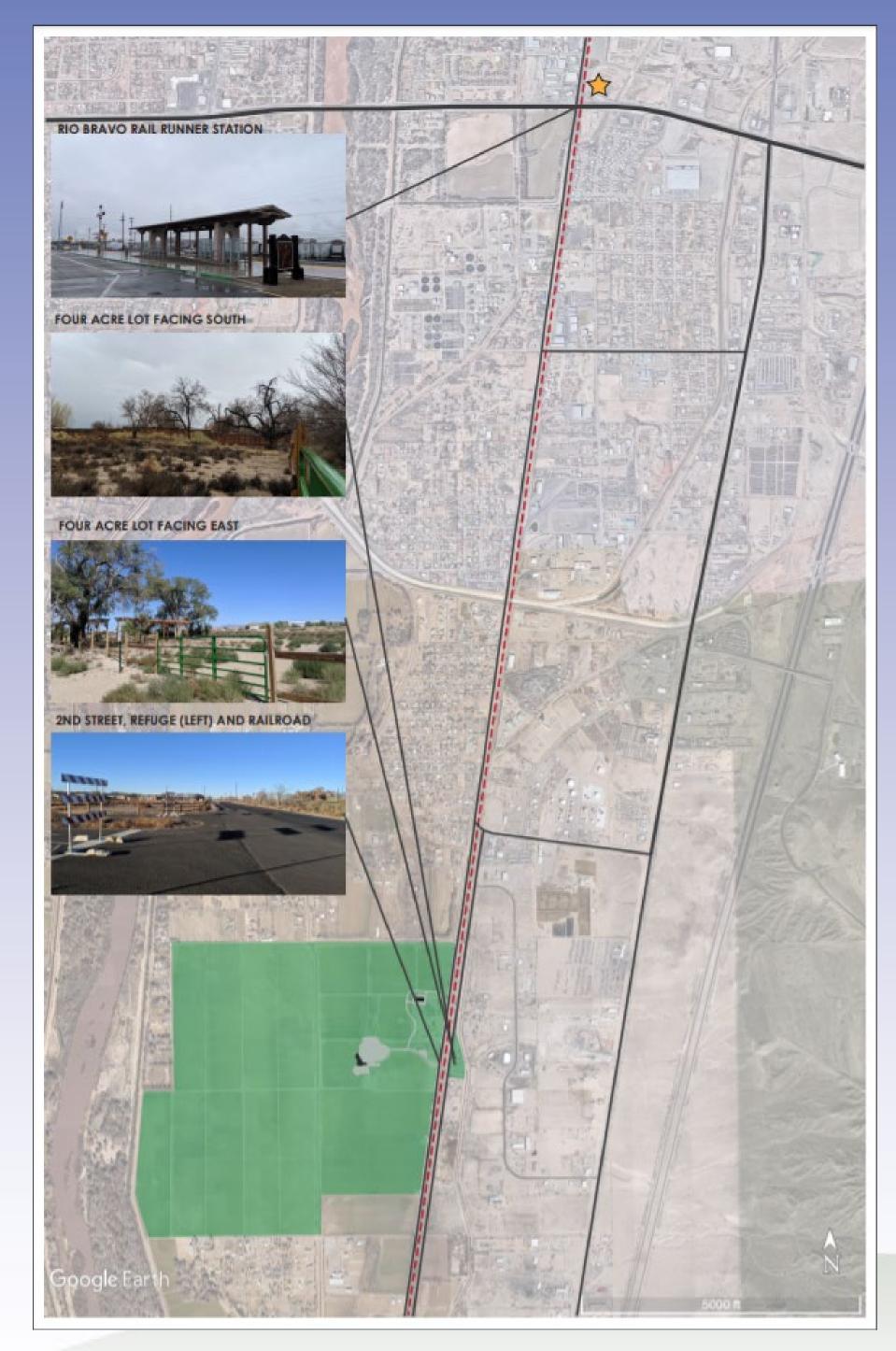








Rail Runner Express Connection and the University of New Mexico

















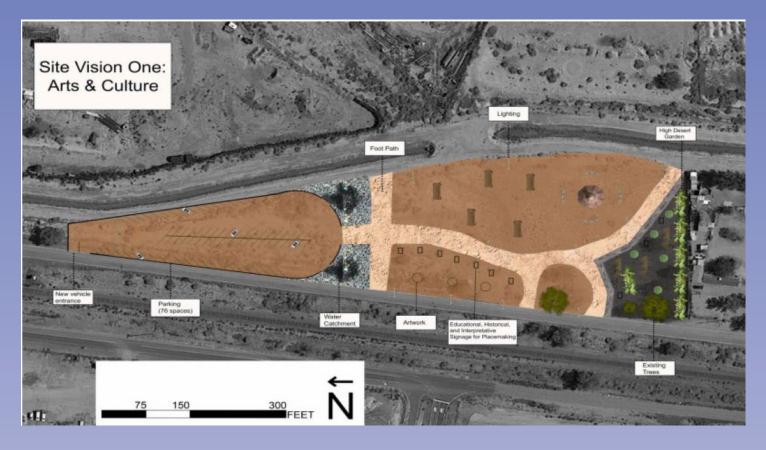


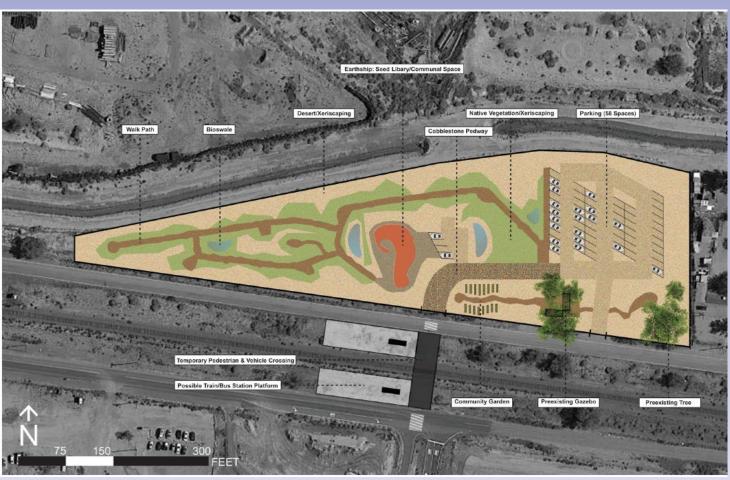
Rail Runner Express Connection and the University of New Mexico

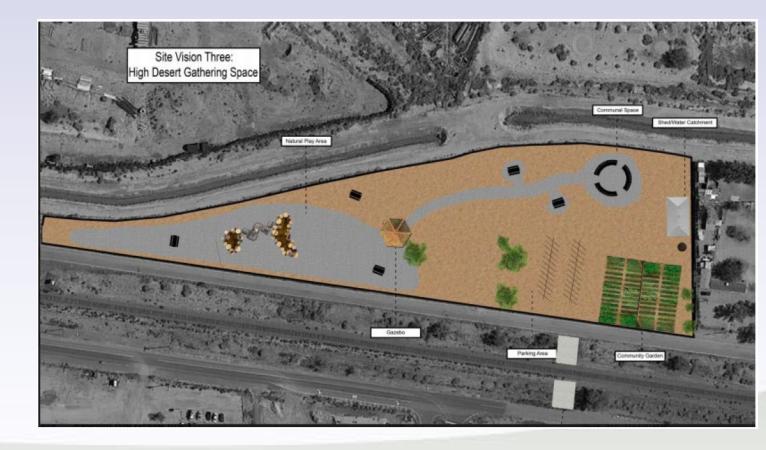














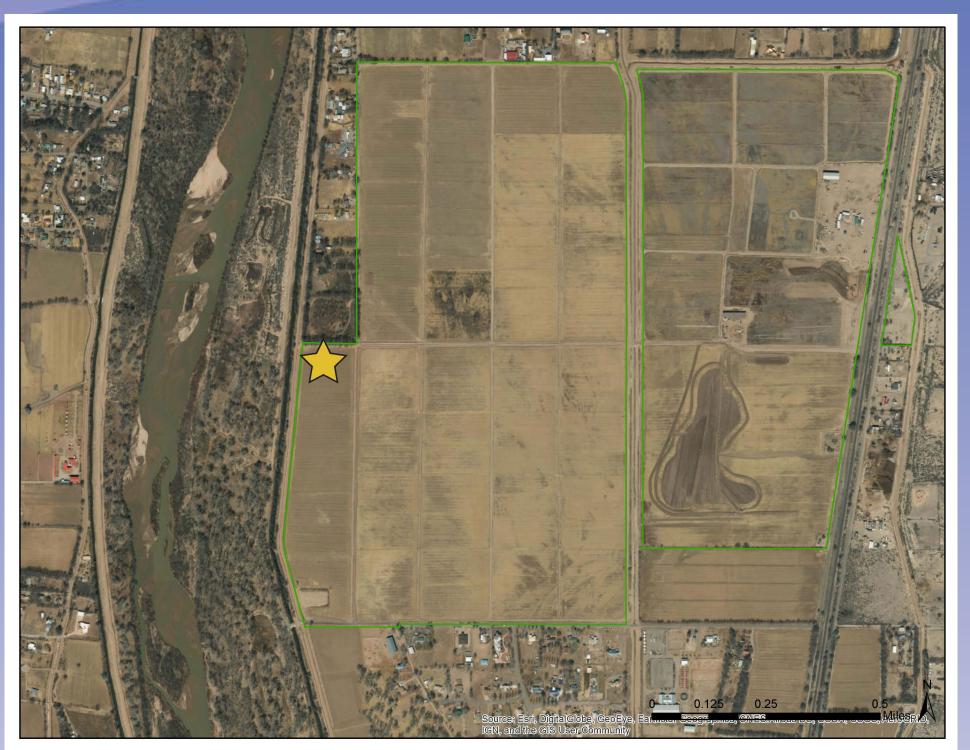




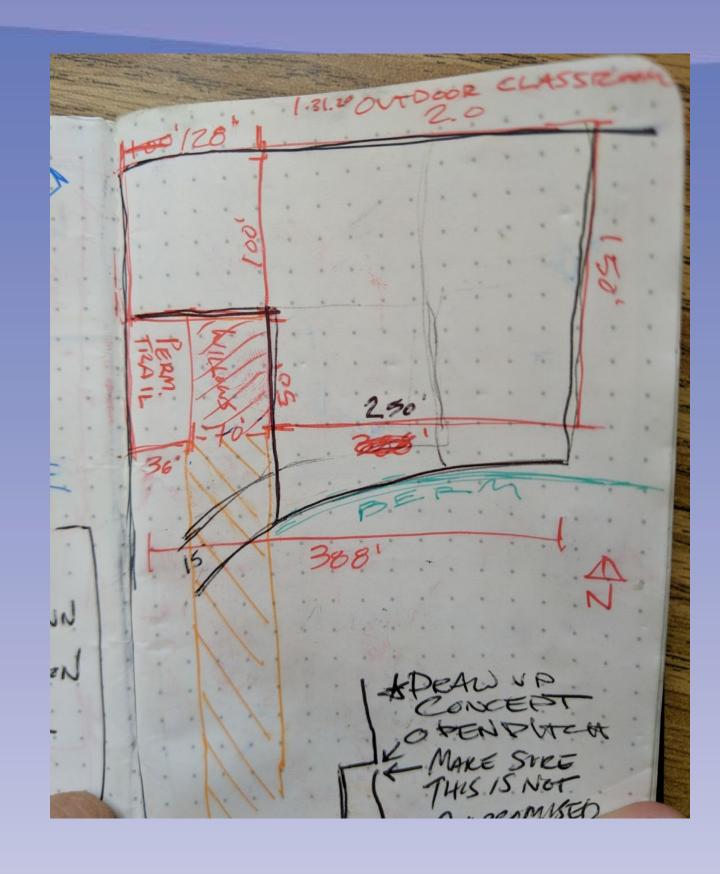


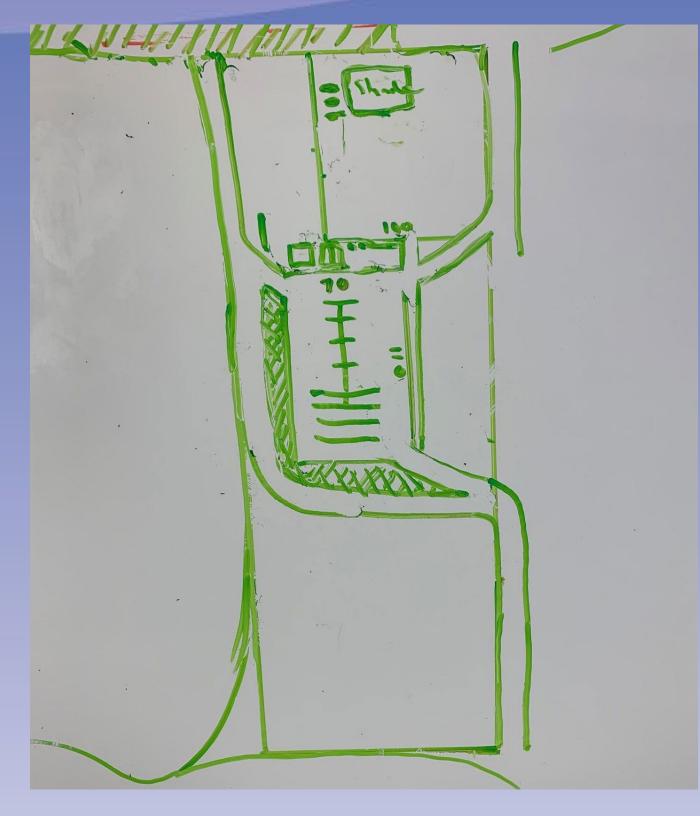


Outdoor Classroom









- Educational space at the west side of the refuge.
- Will also function as formal trailhead and entrance to/from the Bosque





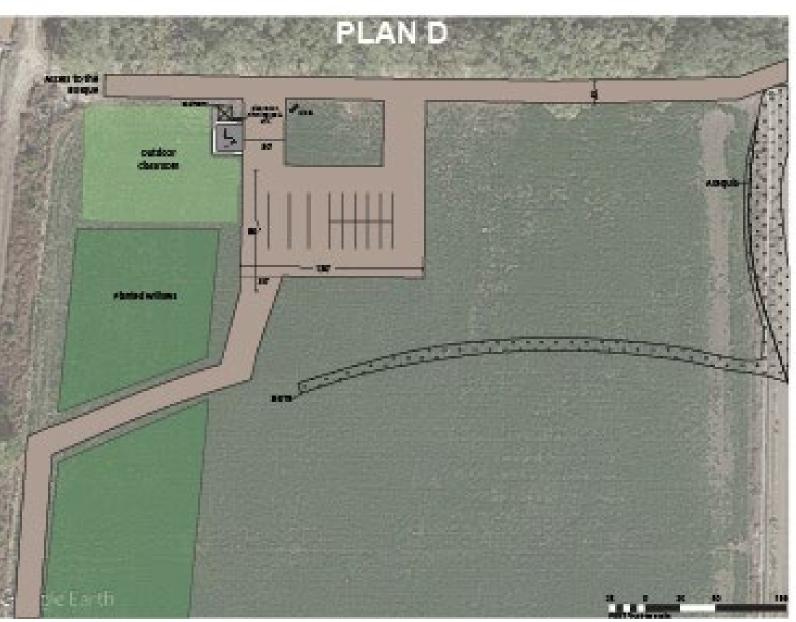












- Various iterations
 of design,
 focusing on
 parking lot
 alignment with
 perimeter trail
- Settle on Plan D
 which will provide
 sufficient parking
 and flow for
 school buses
 while minimizing
 space needed for
 parking



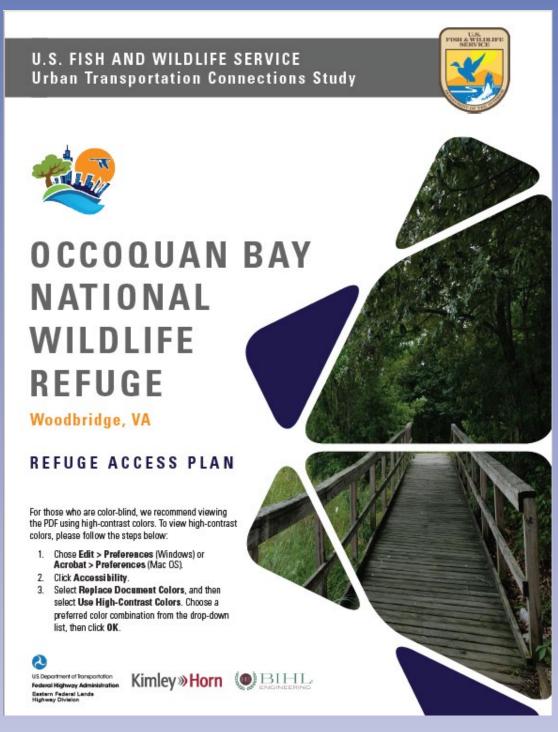








Refuge Access Plan







Valle de Oro National Wildlife Refuge Refuge Access Plan Prioritized Projects

Projects

Top Priority

Second Priority

Easy Wins

TR: Transit

RD: Roadway

BP: Bike/Pedestrian

OT: Other

Projects Not Mapped

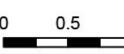
BP-1 OT-4

BP-2 OT-5 OT-6

OT-3 OT-7











OT: Other

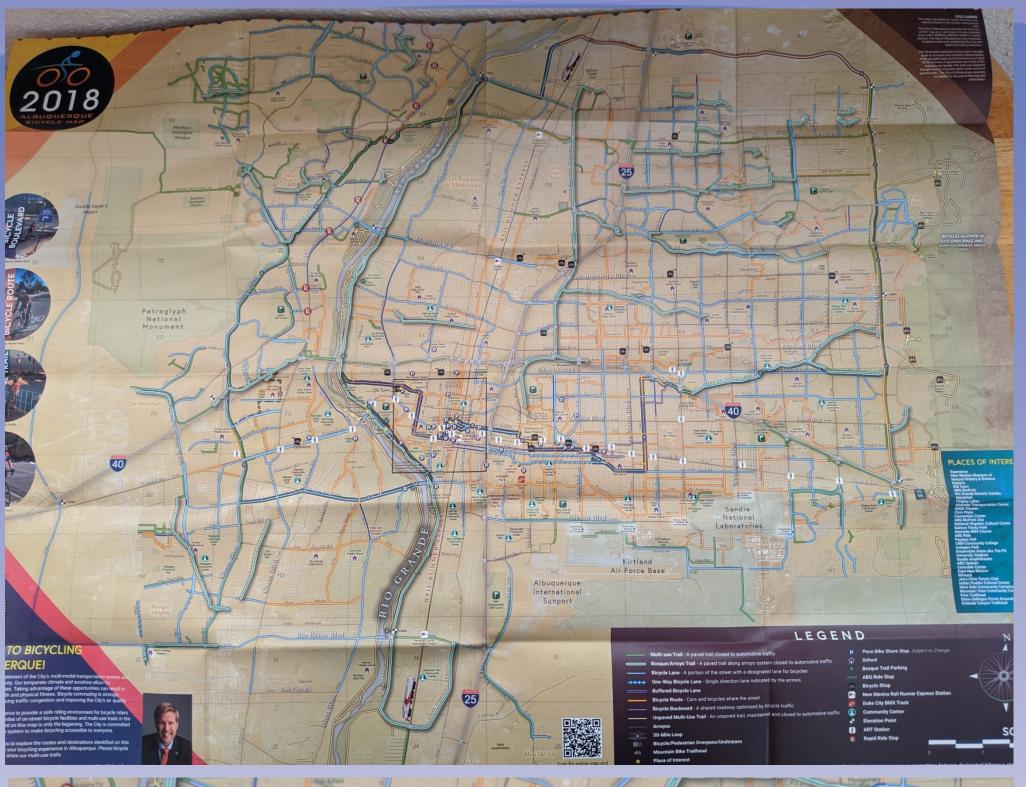


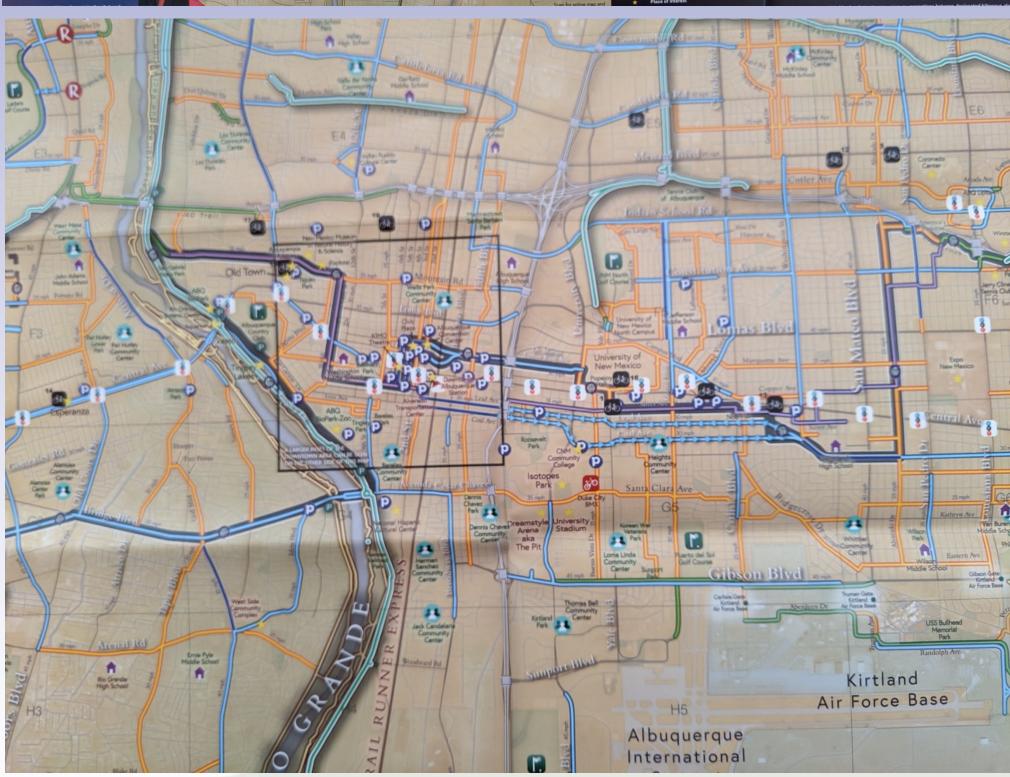


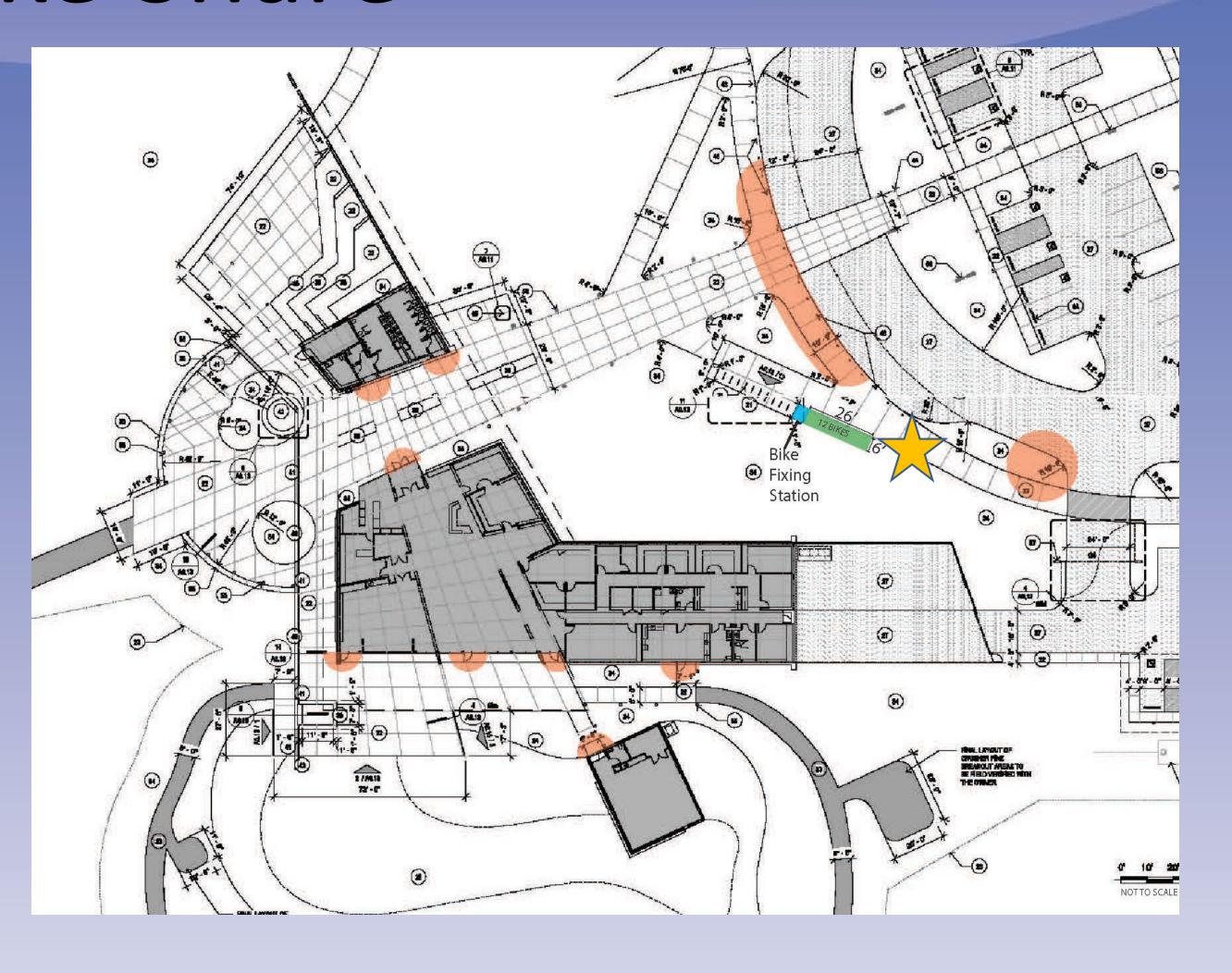




Bike Share





















Signs and Wayfinding

Previous Friends Roadway

Sponsorship sign



Current Friends Roadway
Sponsorship sign







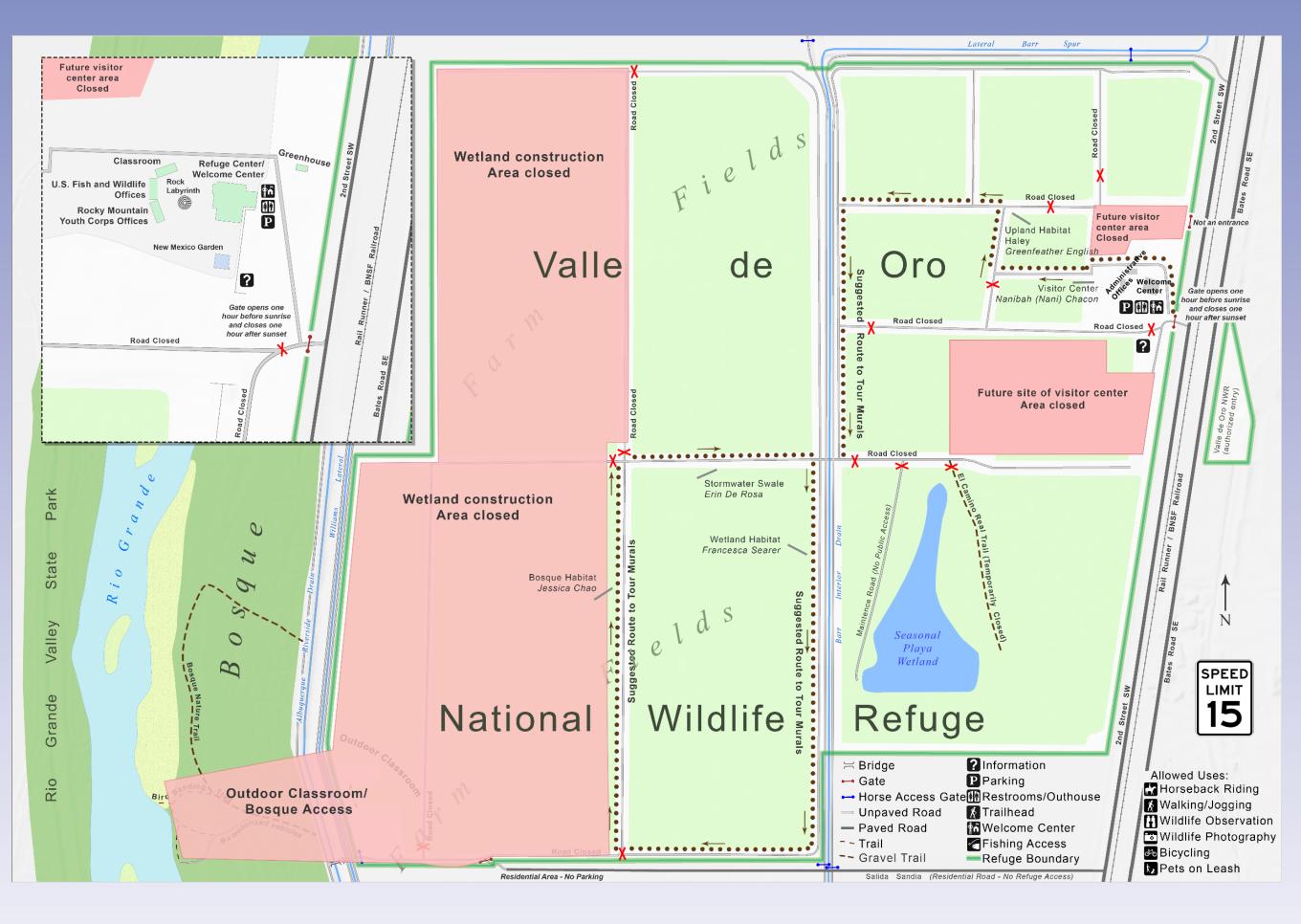


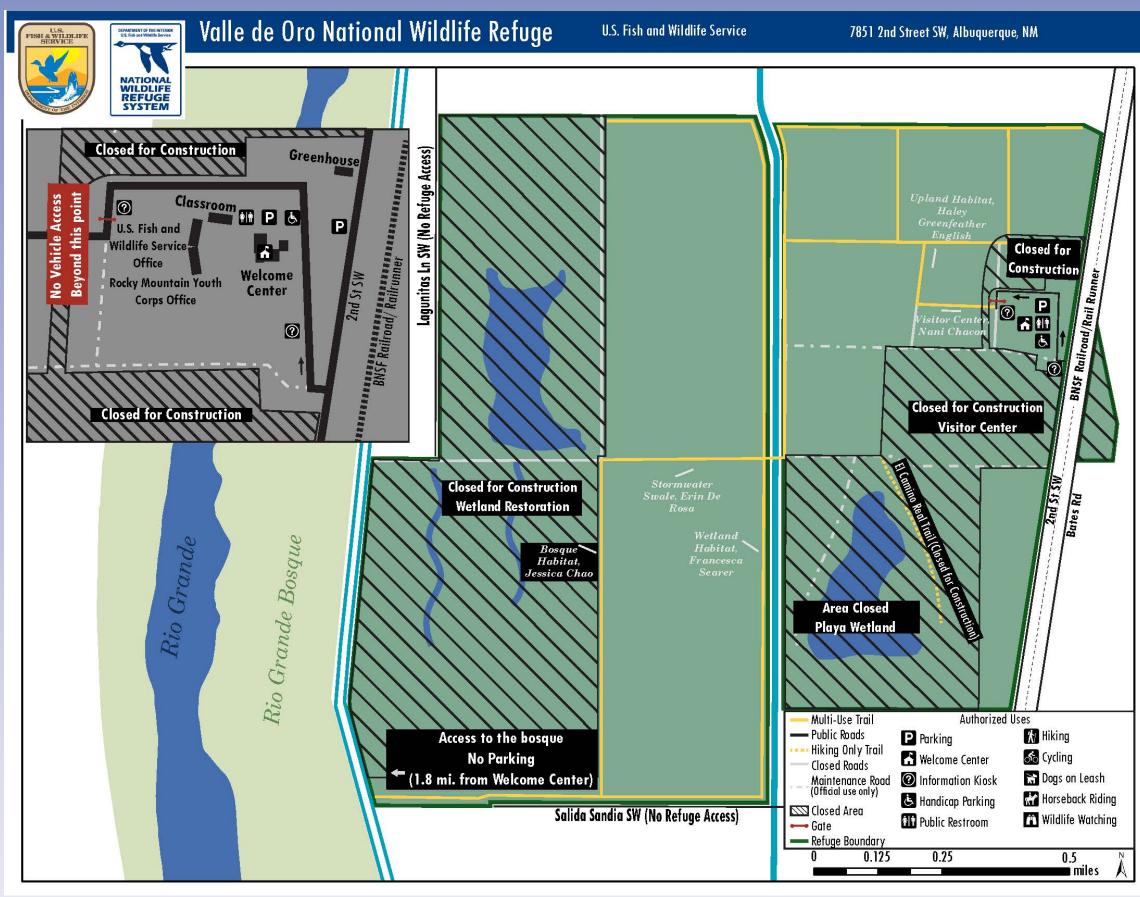


Refuge Map

Previous Refuge Sign

Current Refuge Sign









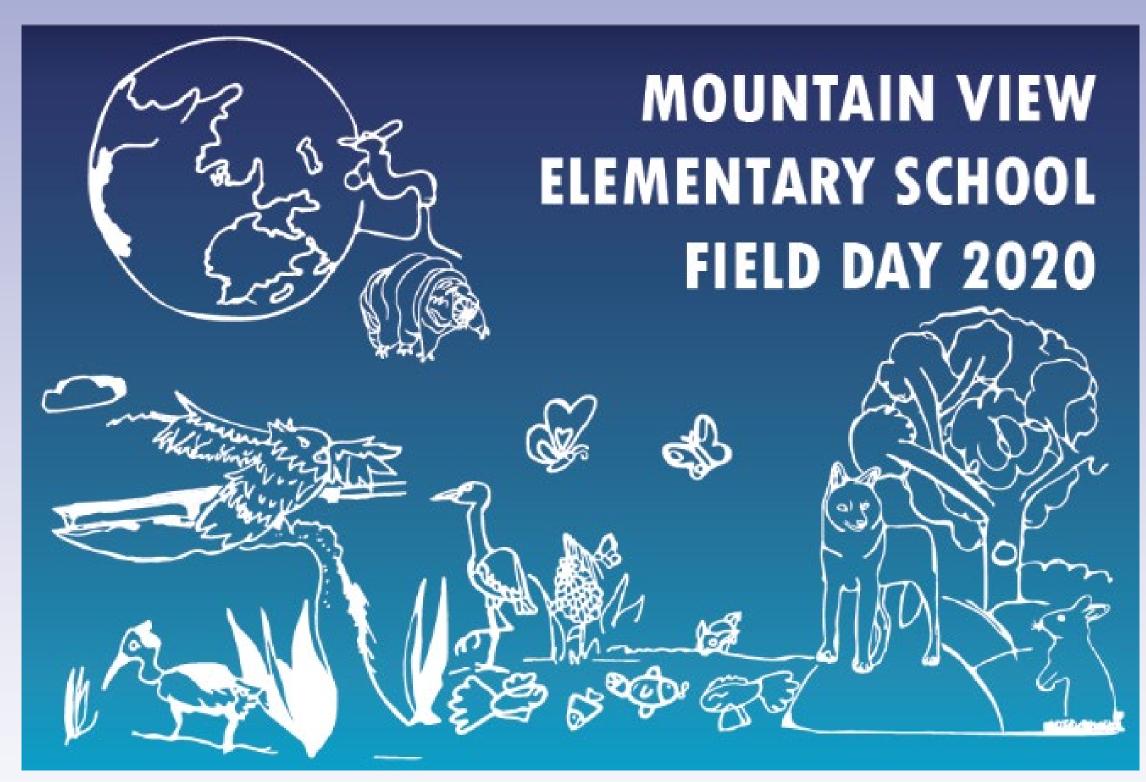


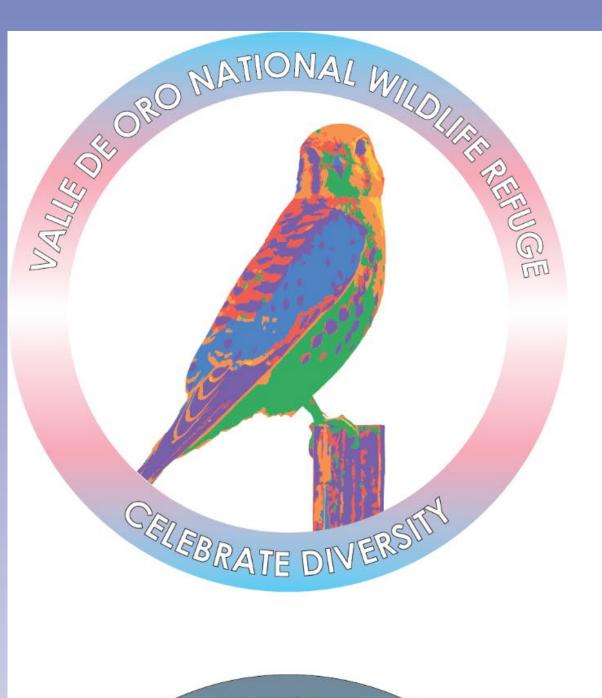




Art and Design























Lessons Learned

- Your partners are your greatest asset
- Play within your strengths but don't be afraid to do things you aren't as comfortable with
- Flexibility is key
 - There is more than one way to get things done
 - Some things are out of your control, do what you can

General Suggestions

- Reach out to partners new and old for help and inspiration
- Explore your surrounding area and see what makes it unique
- Take every opportunity to work alongside your fellow Refuge staff and get to know them
- Be honest and upfront with your project partnerships if things aren't going the direction you need them to
- Follow-up!
- Take the opportunity to pursue projects that you enjoy and have fun!











Thank you

Including, but not limited to:

- Jennifer Owen-White, Katie McVey, Ariel Elliott, Teresa Skiba,
 Hannah Redwood, Toby Valdez-, Joe Mackey, Melanie
- Aryn LaBrake and Dave Barber and the rest of The Friends of VdO
- Natalie Villwock-Witte, Jaime Sullivan and the rest of the WTI staff
- Planning staff and representatives of Bernalillo County, the City of Albuquerque, and Mid-Region Council of Governments
- Transportation Fellows Vince Ziols and Naomi Fireman
- Mountain View Community











Resources

- Webinar: Creating Equitable Transportation Access to Urban Wildlife Refuges
- United States Access Board: Outdoor Developed Areas
- Best Practices for Electric Vehicle Supply Equipment Installations in the National Parks









Directing your Questions via the Chat Pod

1. Chat pod is on left side of screen between attendees pod & closed caption pod

3. Answers will appear here unless addressed verbally



2. Type your question or comment here











Contact Information

If you have any questions related to this presentation, please contact:

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Or contact the PLTF Program Manager at:

(774) 571-3505 or jaime.sullivan2@montana.edu

https://westerntransportationinstitute.org/professional-development/public-lands-transportation-fellows/









