

# PROJECT\_MALDEN

**\_BUILDING BRIDGES\_**

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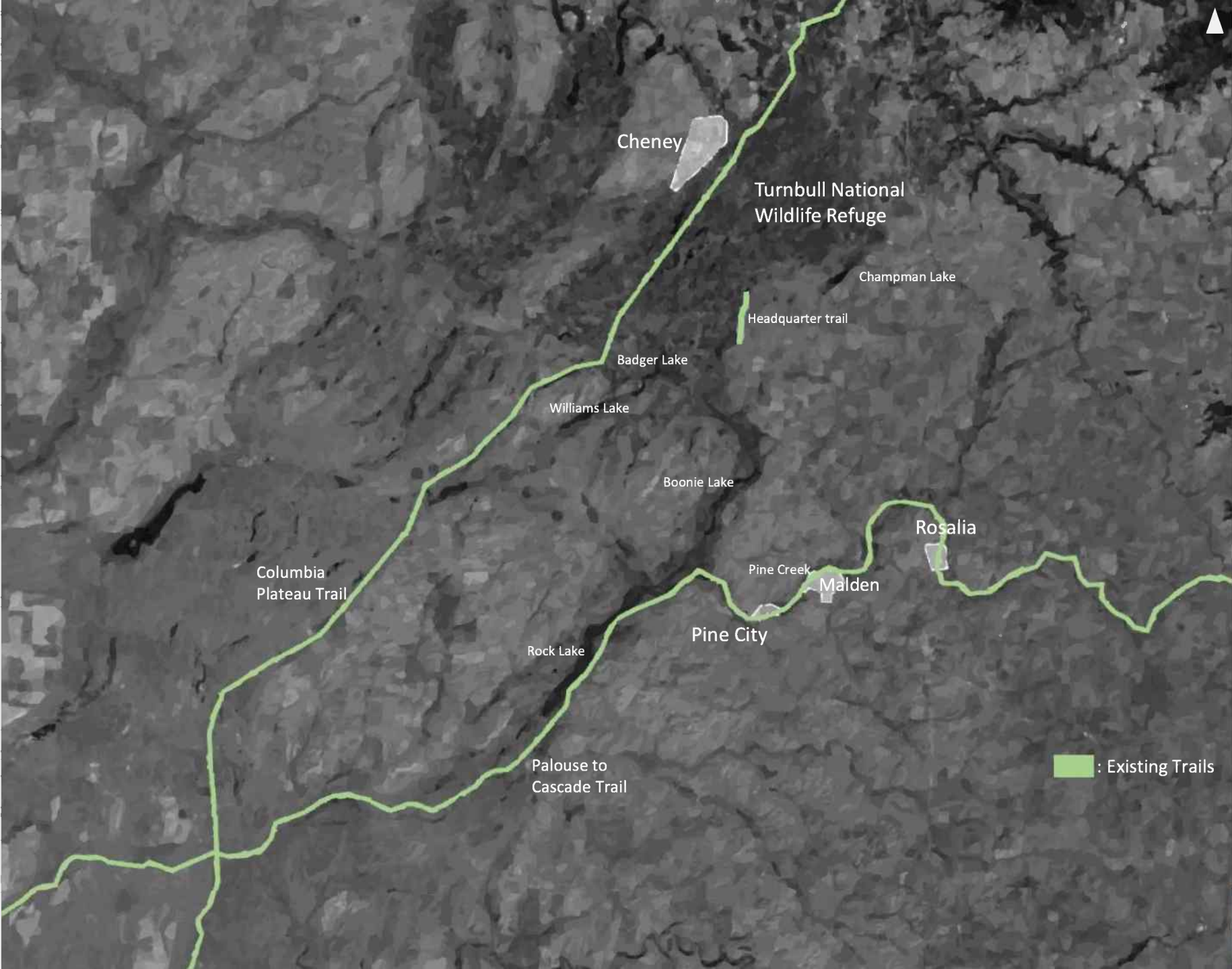
**School of Design and  
Construction**



## PROJECT STATEMENT

**This project will revitalize Malden by the city becoming a hub for a new trail system, the new trail system will enable visitors to experience the several type of landscapes in the region, with protection and restoration of possible ecologies and habitats in the area.**

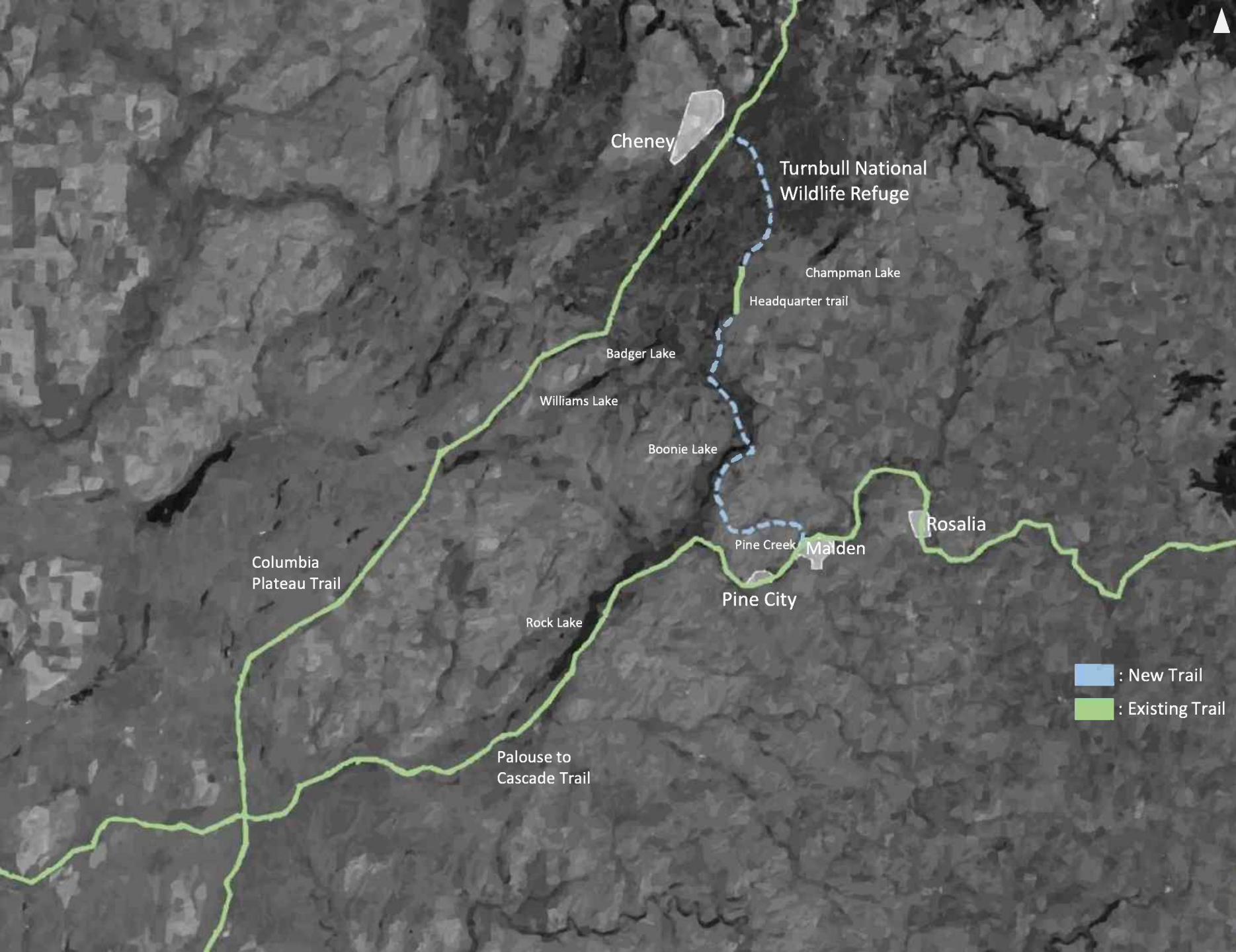
Pine City -  
Malden RD  
13000



## OVERVIEW MAP

**Malden's' location is in the tracks of Palouse to Cascade trail making it perfect location for a midpoint or a communal area for trail users.**





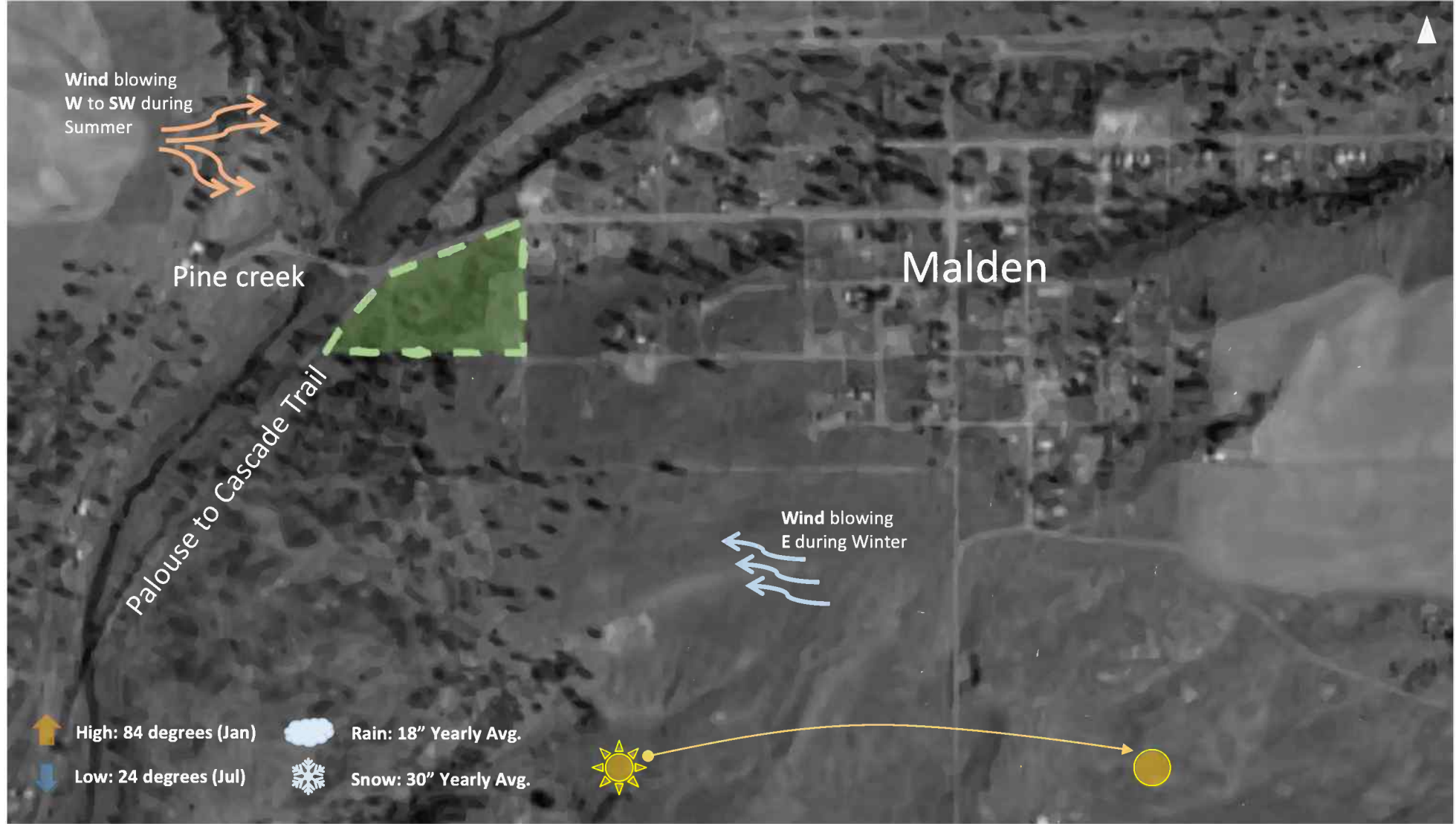
## NEW TRAIL MAP

**This new trail will be about 20 miles long reaching Cheney from Malden, then will run down Columbia Plateau Trail about 43 miles until it hit the cross section of Palouse to Cascade Trail that tracks back about 43 miles to Malden.**





# MALDEN CIRCULATION HUB

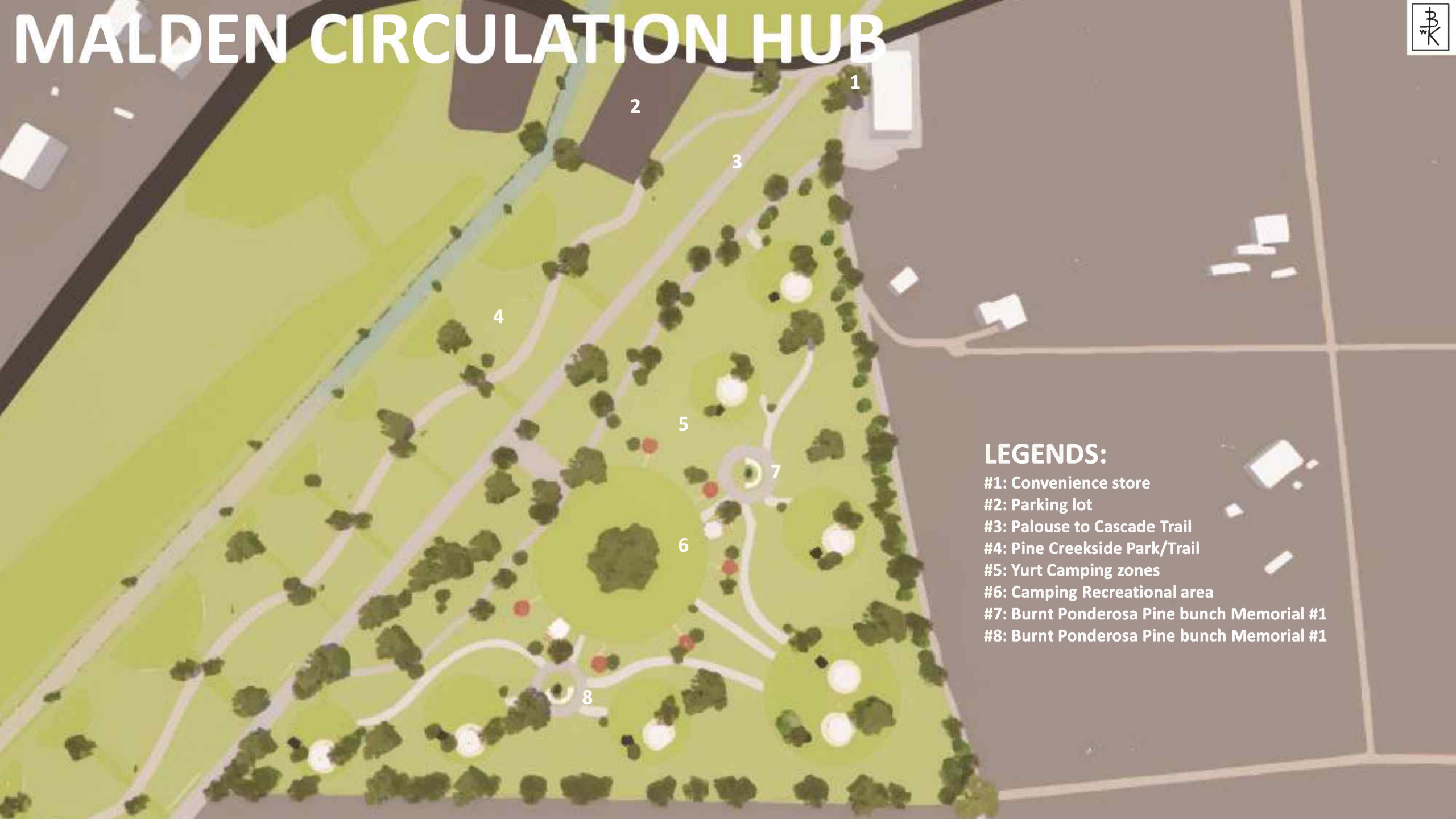


## SITE LOCATION

Located on the west side of Malden, right at the entrance of the town and the Cascade to Palouse trail, this location became logical to bring most foot traffics, and visitors.



# MALDEN CIRCULATION HUB



## LEGENDS:

- #1: Convenience store
- #2: Parking lot
- #3: Palouse to Cascade Trail
- #4: Pine Creekside Park/Trail
- #5: Yurt Camping zones
- #6: Camping Recreational area
- #7: Burnt Ponderosa Pine bunch Memorial #1
- #8: Burnt Ponderosa Pine bunch Memorial #1



**VIEW OF SINGLE-FAMILY YURT CAMP SITE, OFFERS PRIVATE LOT, TREES FOR SHADING AND BATHROOM FOR CONVENIENCE.**



**BUNCHES OF BURNT PONDEROSA PINE TREES STANDING AS MALDEN'S HISTORIC SITE AFTER THE TRAGIC BURN IN 2020.**




















**RESTORED VIEW OF PINE CREEK, TREES AND SHRUBS WERE PLANTED CLOSER TO WATER TO HELP WITH FILTRATION, AND HABITAT FOR ECOLOGY.**



# MALDEN CIRCULATION HUB

## PLANTING LIST:

	FESCUE GRASS - <i>Fetusa</i>		NEEDLEGRASS - <i>Nassella</i>		SNOWBERRY - <i>Symphoricarpos</i>		PONDEROSA PINE - <i>Pinus ponderosa</i>		QUAKING ASPEN - <i>Populus tremuloides</i>
	RYEGRASS - <i>Lolium</i>		BLUE BUNCH WHEATGRASS - <i>Pseudoroegneria spicata</i>		PAMPAS GRASS - <i>Cortaderia #1</i>		WILLSHIRE BIRCH - <i>Betula populifolia</i>		SUGAR MAPLE - <i>Acer saccharum</i>
	LAVENDER - <i>Lavendula</i>		FOUNTAIN GRASS - <i>Pennisetum</i>		PAMPAS GRASS - <i>Cortaderia #2</i>		RIVER BIRCH - <i>Betula nigra</i>		DOUGLAS FIR - <i>Pseudotsuga menziesii</i>

**These 15 plants are common plants to Malden and the Eastern Washington region. Most of the shrub and grass plants were planted along the camping sites, trail and pine creek. Pine trees, Aspens, Maple and birch trees will replace most and all of the burnt trees that are standing still on the site.**



# MALDEN CIRCULATION HUB





# CONNECTOR BRIDGE





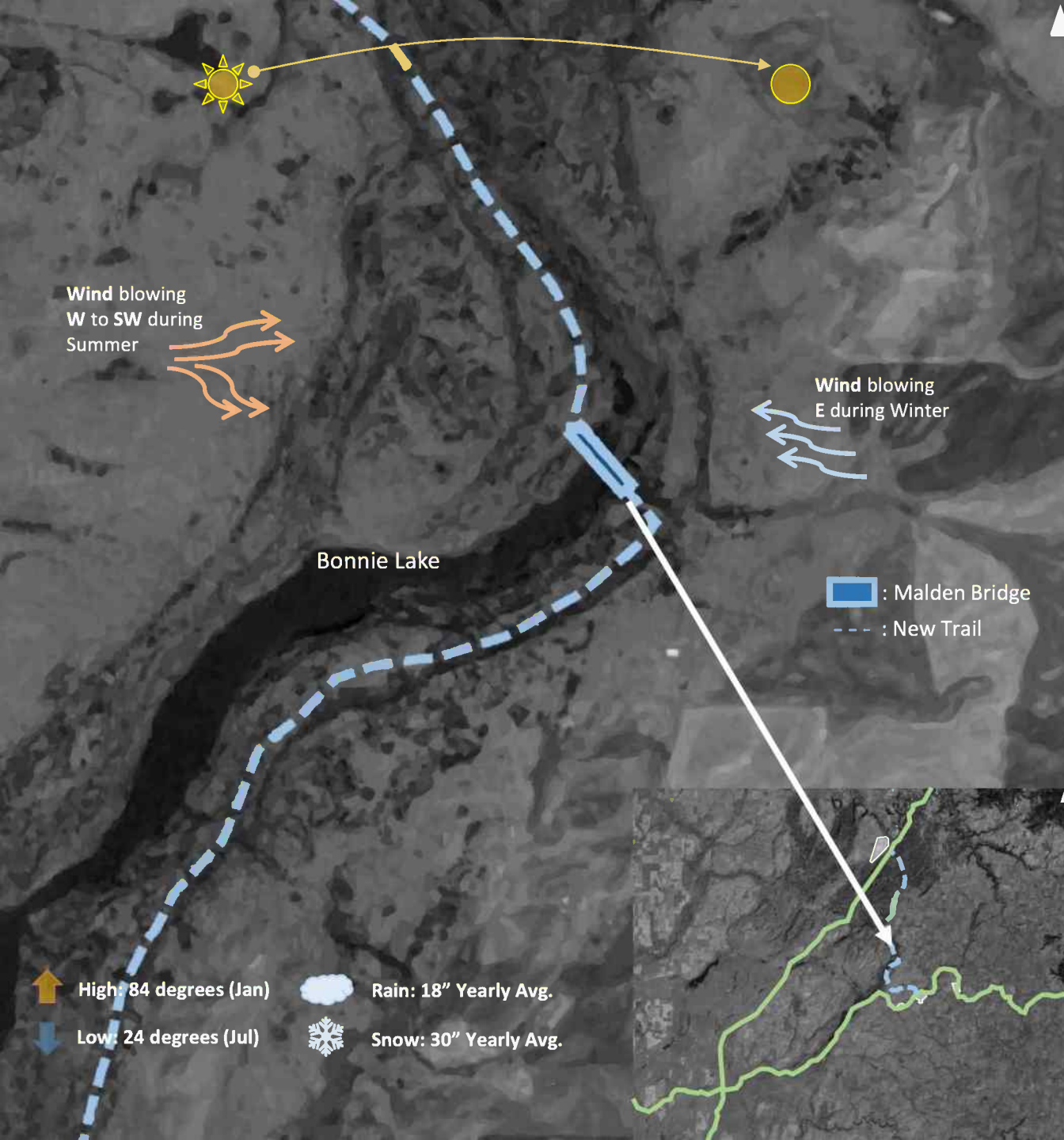
# CONNECTOR BRIDGE

(Bridge over Bonnie Lake)

## OVERVIEW:

**Opportunity to give features in WA some attention and appreciation through this opportunity.**

**It offers scenic mid point of the new trail. Which can be Refreshing for the visitors.**



# CONNECTOR BRIDGE



www.ksa.com







**LOOKOUT SPOT THE SOUTH SIDE OF THE BRIDGE, SIX PICNIC TABLES, AND OPEN COMMONS AREA. – APPROACHING FROM MALDEN.**





**ENTRANCE TOWARDS NORTH SIDE OF THE BRIDGE, 30' WIDTH SUPPORTED WITH BRIDGE  
POLES AND FRAMES.**



**MID-POINT OF THE BRIDGE, GUARDED WITH FIRE-RESISTANT GLASS RAILING.**



**LOOKOUT SPOT #2 ON THE NORTH END OF THE BRIDGE, OFFERS EIGHT PICNIC TABLES.**



# TRAIL DESIGN CONCEPTS & MATERIALS

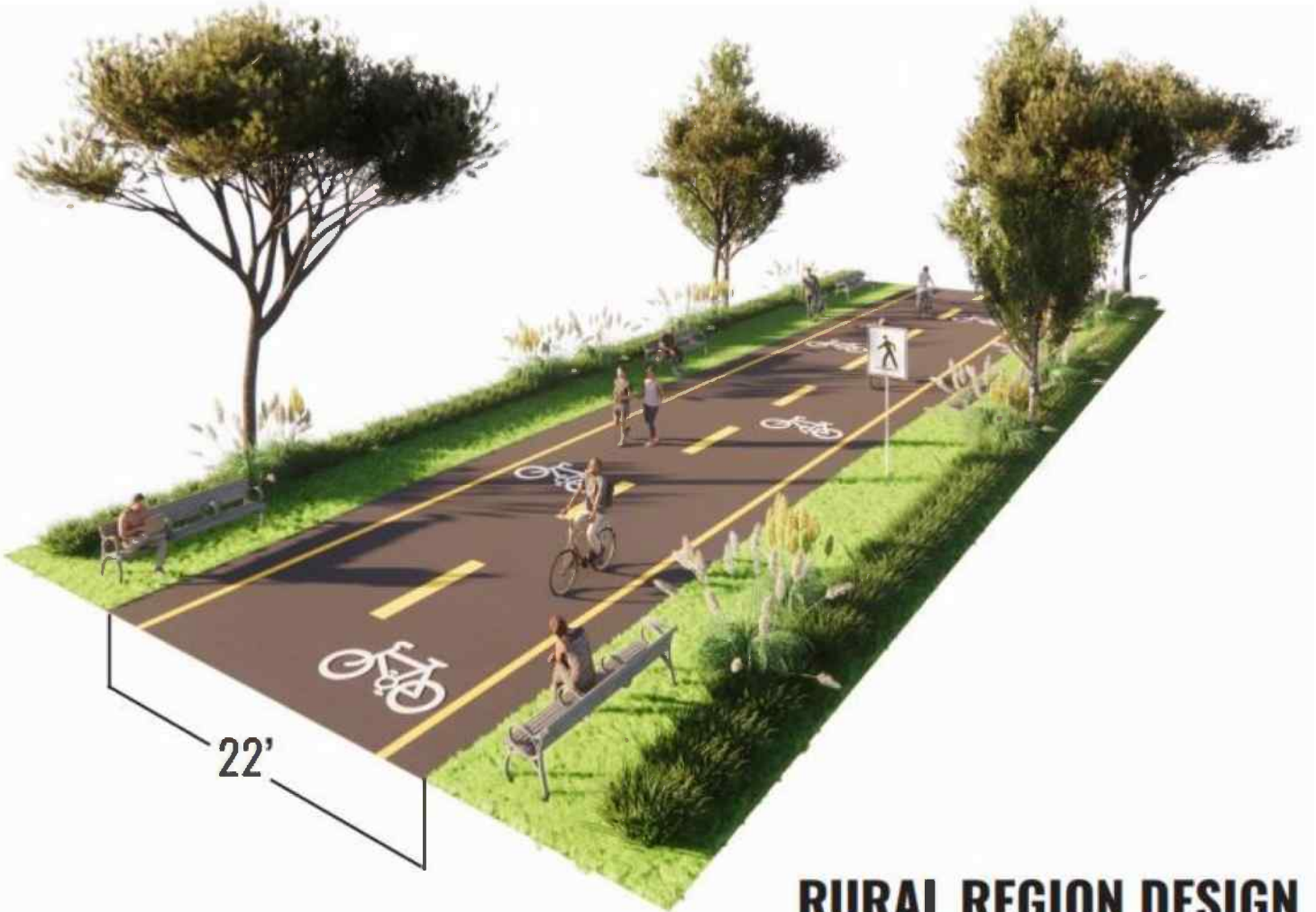


**1** : Turnbull National Wildlife Refuge Trail is currently made of paved asphalt unlike current trails. Meaning, during summer the trail is much hotter than gravel or compact soil, and much colder vice versa.

**2** : Sustainable material is recommended for any project for its carbon admission, but due to weather conditions in WA, Asphalt seem to be the only material that helps with the erosion, and stormwater drainage.

**3** : Material like rubber is available for smooth bike riding experiences. But it is not practical for extreme heat and cold.





**MATERIALS:**



**Gravel:** Used in present trails.



**Porous graded asphalt:** Used in new trail designs.



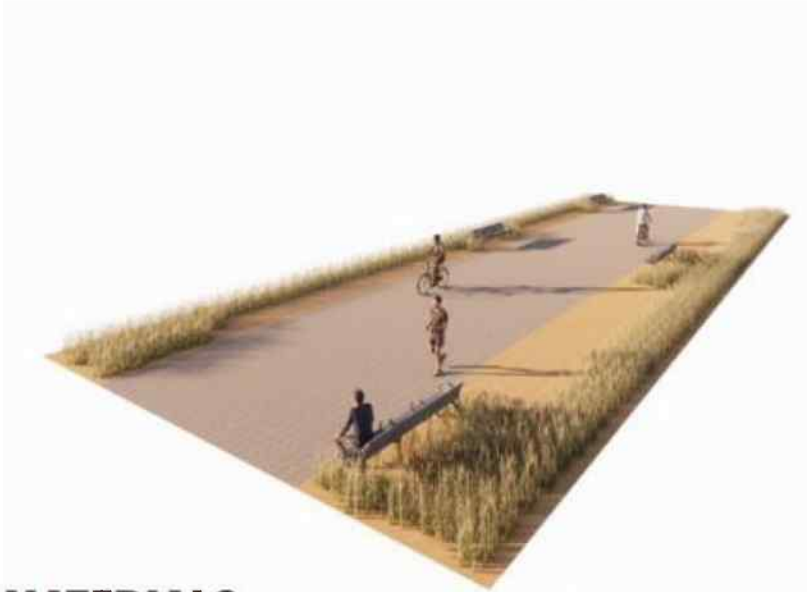
**Yellow reflective/Glowing paint:** Used in new trails for indication, and safety for the visitors.



**White reflective/Glowing paint:** Used in new trails for indication, and safety for the bike riders.

**RURAL REGION DESIGN**





**MATERIALS:**



**Gravel:** Used in present trails.



**Dense graded asphalt:** Used in new trail designs.



**Yellow reflective/Glowing paint:** Used in new trails for indication, and safety for the visitors.



**White reflective/Glowing paint:** Used in new trails for indication, and safety for the bike riders.



**ARID REGION DESIGN**

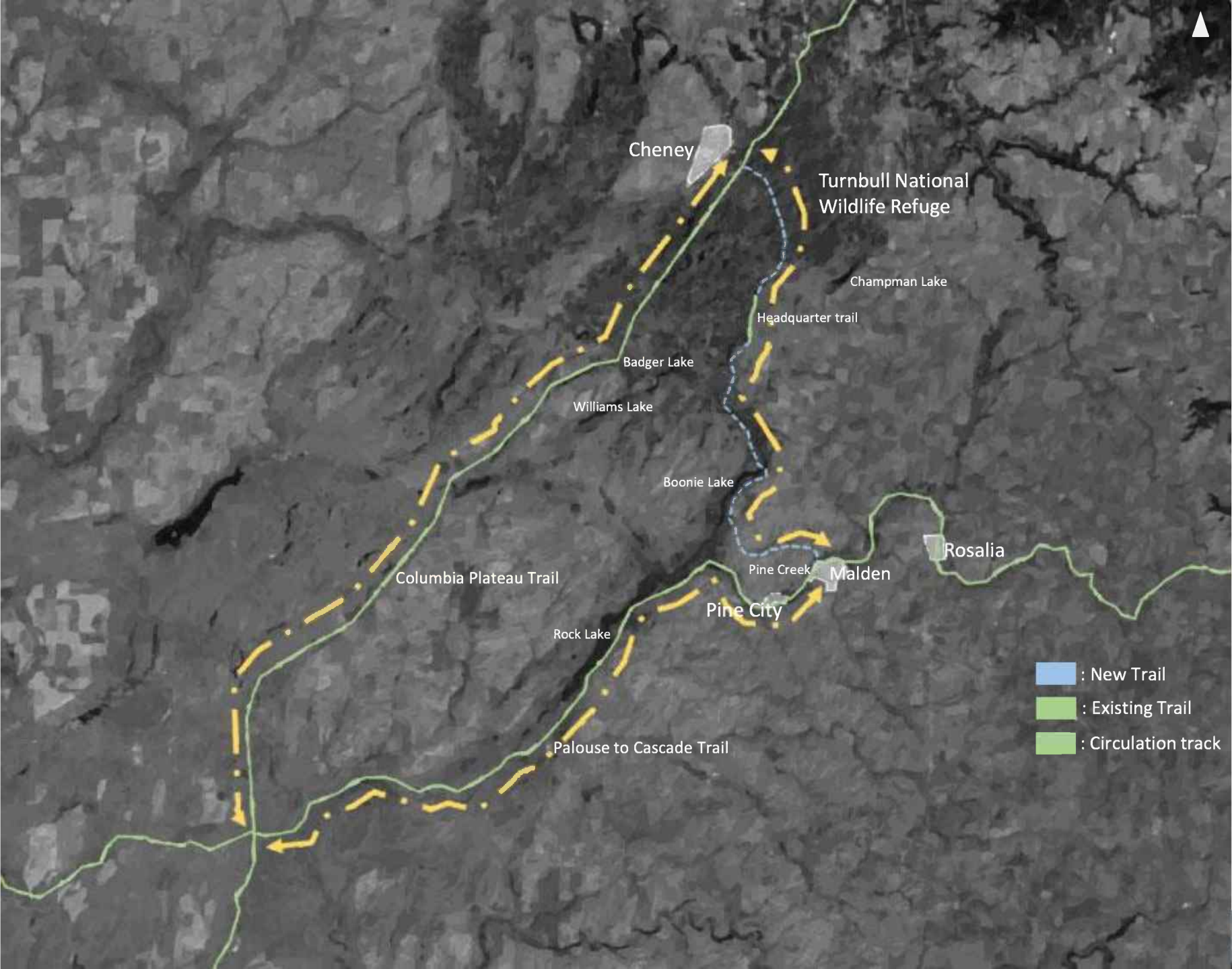






# CIRCULATION MAP

**Length of the new trail is about 20 miles (19.88 miles) long, reaching from the Malden circulation hub to Cheney, WA, then meets the Columbia Plateau trail which will run down south about 43 miles (43.35 miles) to a trail connection that connects to Palouse to Cascade trail that will also be about 43 miles (43.27 miles) back to Malden circulation hub, making a perfect loop for long trail bike riders, or visitors.**





**THANK YOU FOR YOUR TIME LISTENING.**

PineCity-  
Malden RD  
13000

