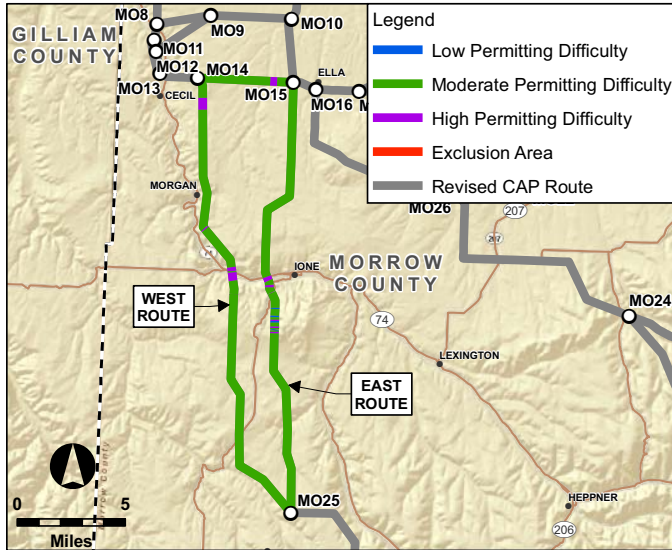
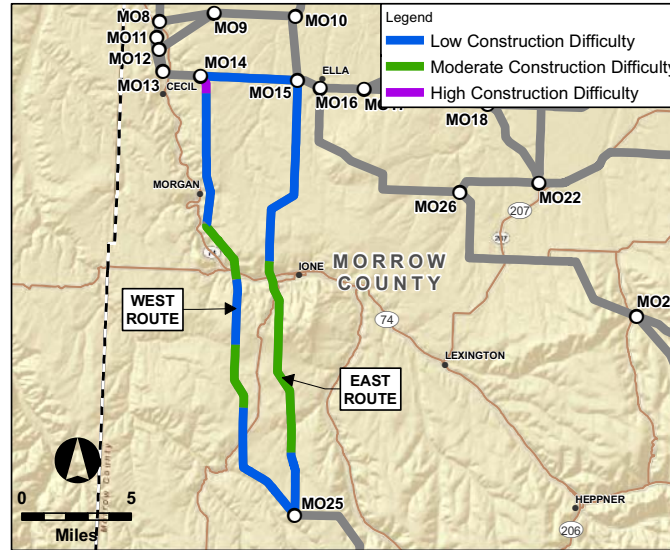


# NORTH PAT - MORGAN - IONE

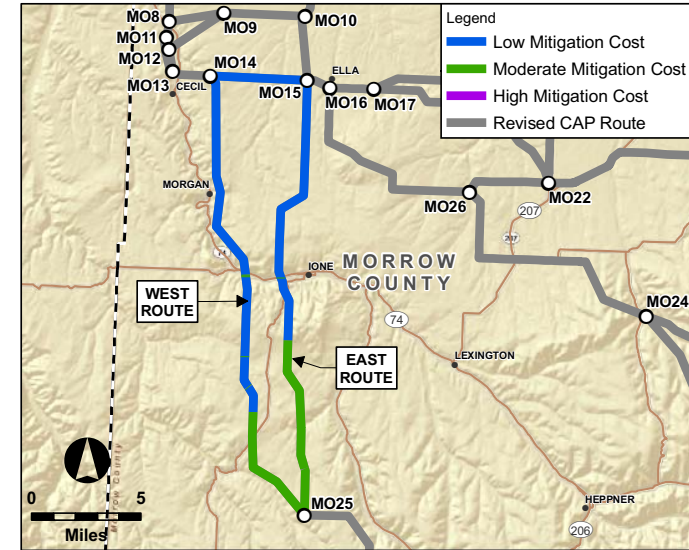
## PERMITTING DIFFICULTY



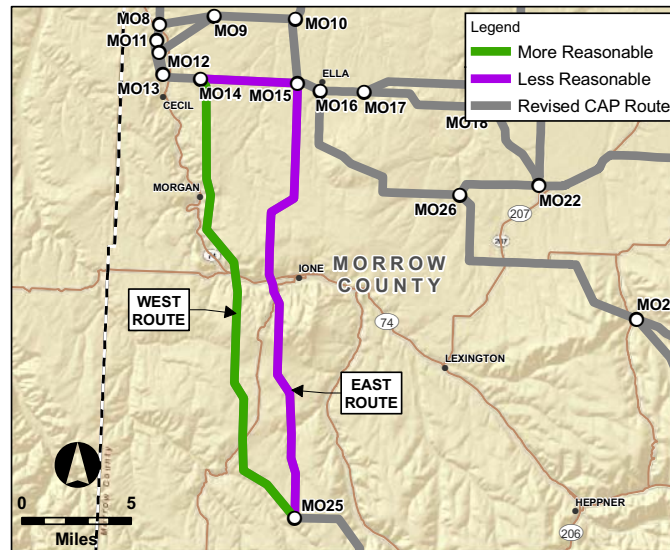
## CONSTRUCTION DIFFICULTY



## MITIGATION COST



## SUMMARY



- 2 ROUTES WERE CONSIDERED:  
EAST ROUTE (MO14-MO15-MO25) AND  
WEST ROUTE (MO14-MO25)

- THE WEST ROUTE IS THE MORE  
REASONABLE ROUTE

- THE WEST ROUTE IS MORE REASONABLE  
THAN THE EAST ROUTE BECAUSE IT:

- 3.3 miles shorter/100 fewer acres of ROW
- Crosses less Deer Winter Range, less High Erosion Hazard land, less EFU land, less Prime Farmland Soils, and less of the 1200ft Historic Trail Buffer Zone

### MORGAN-IONE MILEAGE SUMMARY

	WEST ROUTE (MO14-MO25)	EAST ROUTE (MO14-MO15-MO25)
	LENGTH IN MILES	
<b>PERMITTING DIFFICULTY</b>		
LOW	0.0	0.2
MODERATE	20.7	24.1
HIGH	1.2	0.9
EXCLUSION	0.0	0.0
<b>CONSTRUCTION DIFFICULTY</b>		
LOW	15.0	16.2
MODERATE	6.0	9.0
HIGH	0.9	0.0
<b>MITIGATION COST</b>		
LOW	16.0	17.0
MODERATE	5.9	8.2
HIGH	0.0	0.0

**MORGAN - IONE DATA TABLE**

Resource Group	Regulatory Criteria Description	Permitting Difficulty	Community Criteria*	WEST ROUTE (MO14-MO25)	EAST ROUTE (MO14-MO15-MO25)
				LENGTH IN MILES	
TOTAL LENGTH				21.9	25.2
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod	0.5	0.7
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High	0.5	0.3
3	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	0.5
4	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	2.2	6.2
5	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	5.8
6	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	5.5	5.2
7	Land Use	Cropland/Irrigated Agriculture	Avoidance High	0.2	0.2
8	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	21.9	25.2
9	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	9.2	13.9
10	Ownership	Private	Avoidance Low	CC	21.9
11	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	19.2	22.7
12	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	0.5	0.3
13	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	2.3	2.2
14	Geological Resources	Within 500ft of Fault Line	Avoidance Low	0.2	0.2
15	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	19.5
16	Slope	Slope 0-15%	Opportunity	17.3	21.1
17	Slope	Slope 15-25%	Avoidance Low	3.1	2.5
18	Slope	Slope 25-35%	Avoidance Mod	1.2	1.3
19	Slope	Slope >35%	Avoidance High	0.3	0.3
20	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low	21.6	25.0
21	Water and Wetlands	Floodplain: Zone A	Avoidance Mod	0.3	0.2
22	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.1
23	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft of site location)	Avoidance High	-	0.2
24	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low	0.1	1.6
25	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1

\* Rows designated with "CC" indicate Community Criteria. These are the criteria the Project Advisory Teams wanted considered in the analysis.