

UTAH LTAP STREET AND SIDEWALK SURVEY

PROVO CITY ENGINEERING

January 19, 2023



provo
PUBLIC WORKS
ENGINEERING

ROAD SURVEY

STRUCTURAL DISTRESS

FATIGUE CRACKING, POTHOLEs, RUTTING, BLEEDING, PATCHING



A - VERY GOOD



B - GOOD



C - FAIR



D - POOR



E - VERY POOR

MINIMAL TO NO DISTRESS

MINOR RUTTING, FATIGUE CRACKING, AND SINGLE LONGITUDINAL CRACKING

MODERATE RUTTING, FATIGUE CRACKING, AND SEVERAL INTERCONNECTED LONGITUDINAL CRACKING

SEVERE RUTTING, FATIGUE CRACKING (6-12 INCH SPACING), NO VERTICAL MOVEMENT IN ASPHALT

EXTREME RUTTING, FATIGUE CRACKING COVERING MOST OF THE ROADWAY, NO VERTICLE MOVEMENT IN ASPHALT

ENVIRONMENTAL DISTRESS

TRANSVERSE CRACKS, LONGITUDINAL CRACKS, MAP/BLOCK CRACKING, RAVELING



1 – VERY GOOD



2 – GOOD



3 – FAIR



4 – POOR



5 – VERY POOR

MINIMAL TO NO DISTRESS

FEW TRANSVERSE CRACKS
AND LONGITUDINAL
CRACKS NOT IN THE WHEEL
PATH.

CLOSELY SPACED
TRANSVERSE CRACKS, EARLY
MAP/BLOCK CRACKING

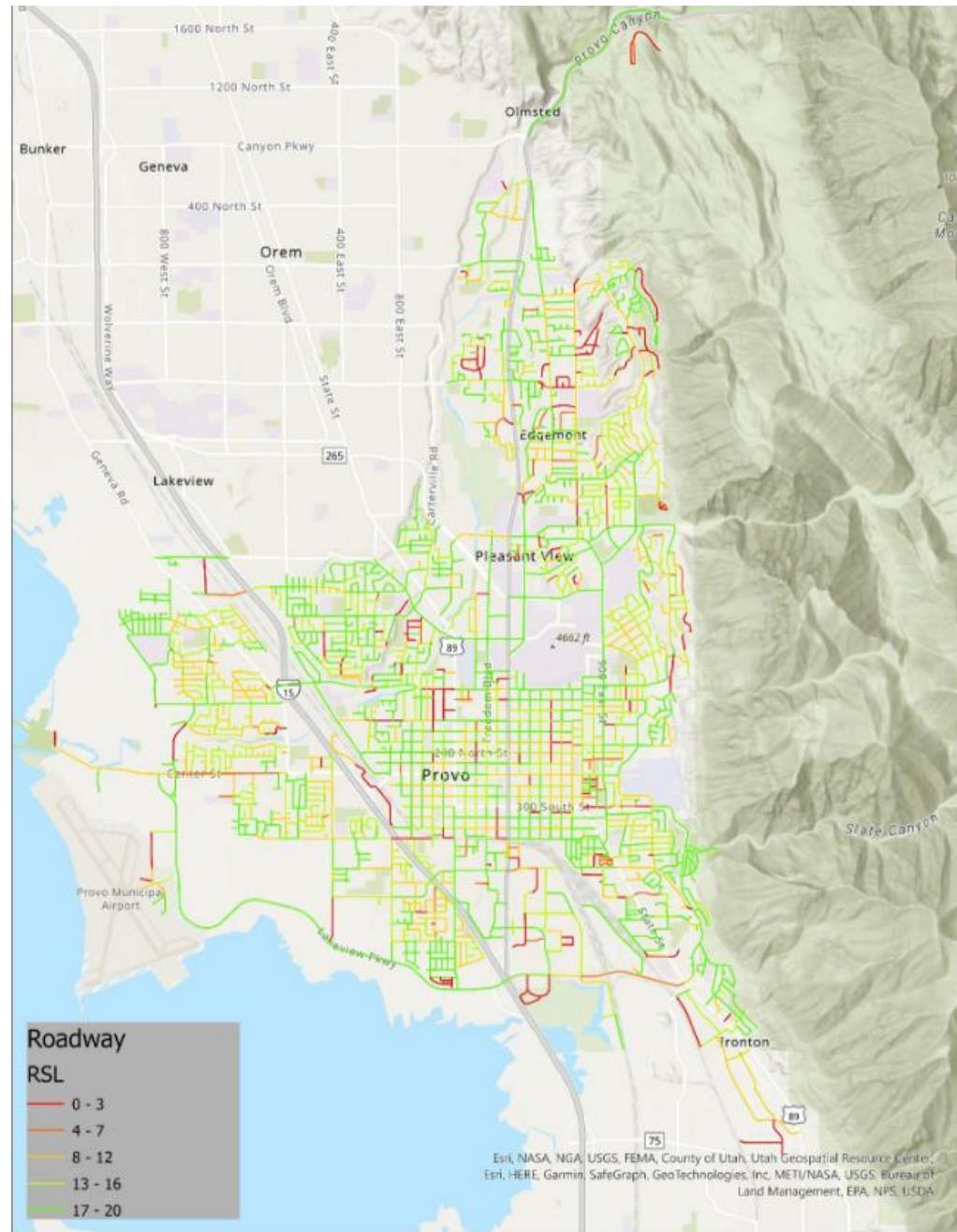
ADVANCED MAP/BLOCK
CRACKING, ABUNDANT
TRANSVERSE AND
LONGITUDINAL CRACKING

ADVANCED MAP/BLOCK
CRACKING, ABUNDANT
TRANSVERSE AND
LONGITUDINAL CRACKING
WITH SURFACE DEFORMATION

Table One
Conversion from Structural/Environmental Rating to Remaining Service Life

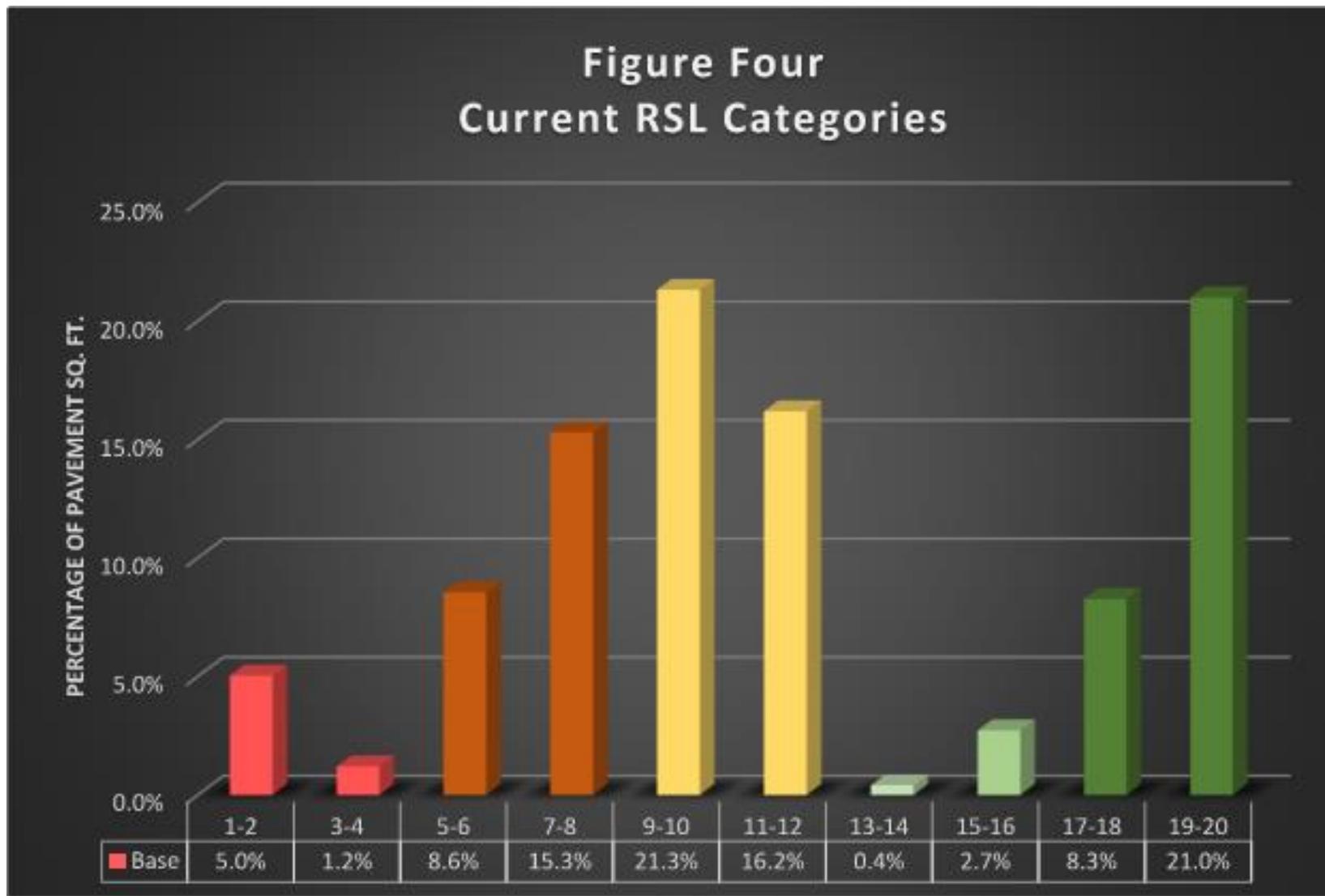
Structural and Environmental Rating				Remaining Service Life
			A1	20
			A1	19
			A2	18
		B1	A2	17
		B1	A3	16
		B2	A3	15
		B2	A3	14
	C1	B2	A3	13
	C1	B2	A4	12
	C2	B3	A4	11
	C2	B3	A4	10
	D1	C3	B4	A5
	D1	C3	B4	A5
	D2	C4	B4	A5
	D2	C4	B5	
	D3	C4	B5	
E1	D3	C5		
E2	D4	C5		
E3	D4	C5		2
E4	D5			1
E5	D5			0

- THIS TABLE IS USED TO CONVERT FROM STRUCTURAL AND ENVIRONMENTAL RATING TO REMAINING SERVICE LIFE (RSL)
- AVERAGE RSL VALUES ARE USED FOR ROAD CLASSIFICATIONS

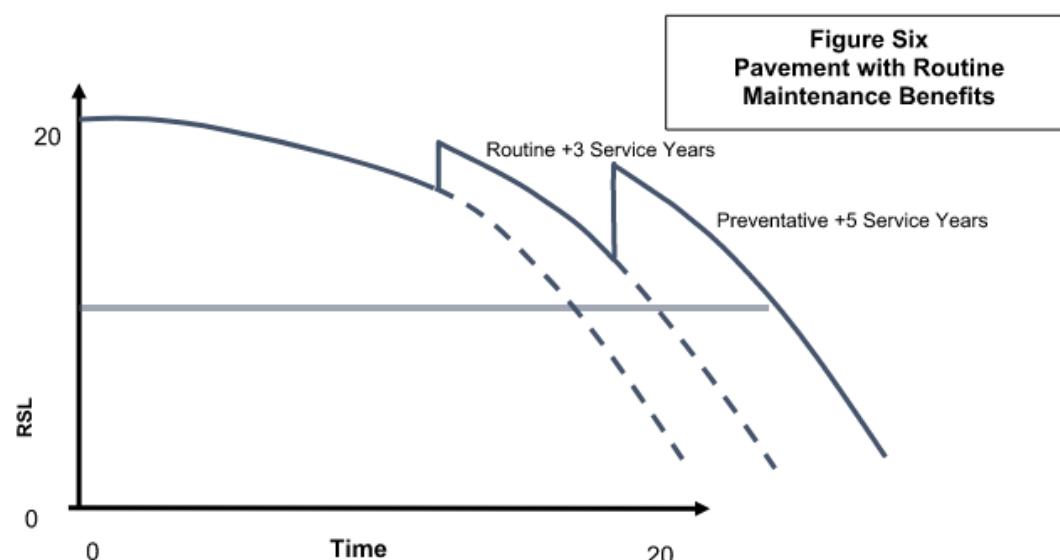


- Provo has 266 center-line miles.
- Provo Average RSL is 11.71

Figure Four
Current RSL Categories



PROVO CITY TYPICAL MAINTENACE



- ROUTINE – CRACK SEAL & SLURRY SEALS
- PREVENTATIVE – MICROSURFACING
- REHABILITATION – MILL & OVERLAY

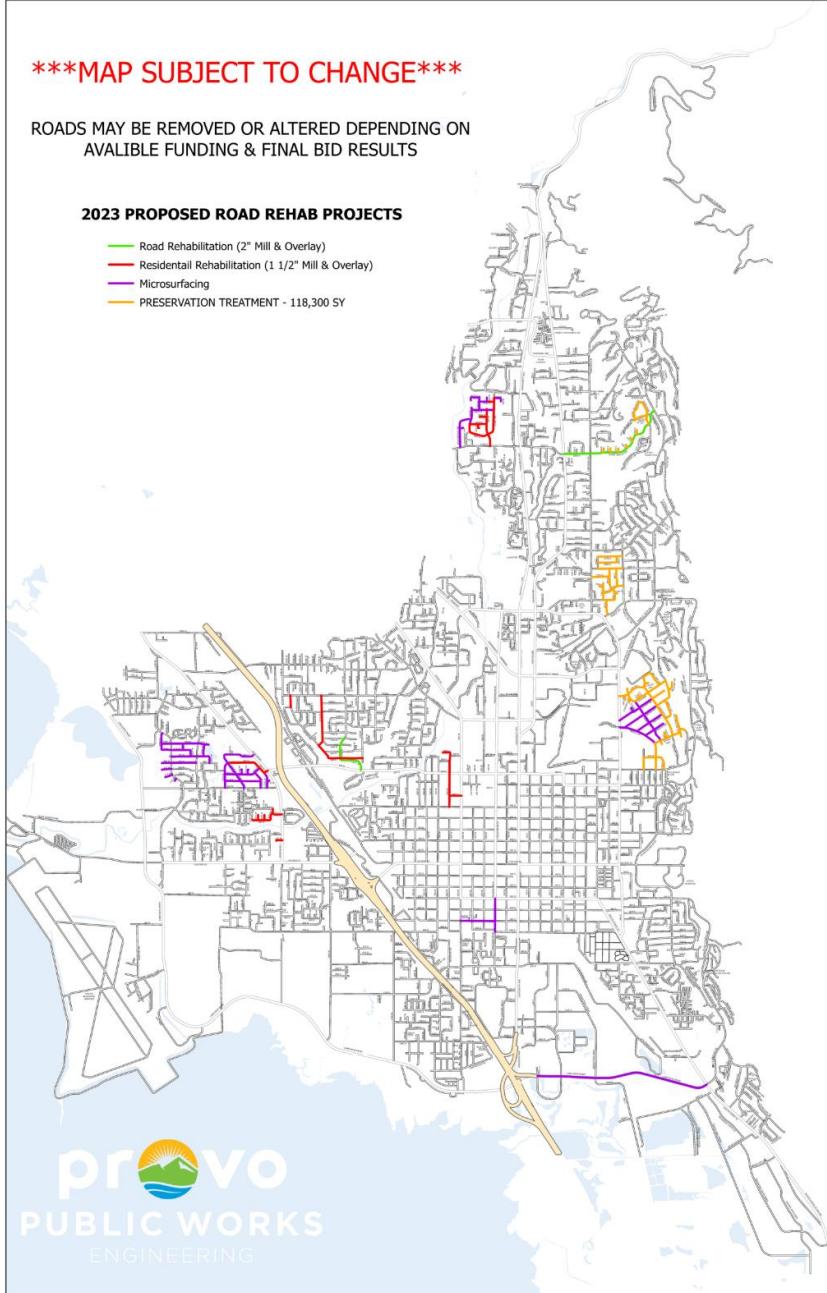
Table Two Maintenance Categories and Benefits				
Maintenance Category	Range of RSL - Maintenance Applicable	Average Budget (per sf of pavement)	Additional RSL Gain	Benefit/Cost Ratio
Routine	16-20 RSL	\$0.12	3	25
Preventative	11-15 RSL	\$0.35	5	20
Rehabilitation	7-10 RSL	\$2.00	8	4
Reconstruction	1-6 RSL	\$6.00	20	3.33

MAP SUBJECT TO CHANGE

ROADS MAY BE REMOVED OR ALTERED DEPENDING ON
AVAILABLE FUNDING & FINAL BID RESULTS

2023 PROPOSED ROAD REHAB PROJECTS

- Road Rehabilitation (2" Mill & Overlay)
- Residential Rehabilitation (1 1/2" Mill & Overlay)
- Microsurfacing
- PRESERVATION TREATMENT - 118,300 SY

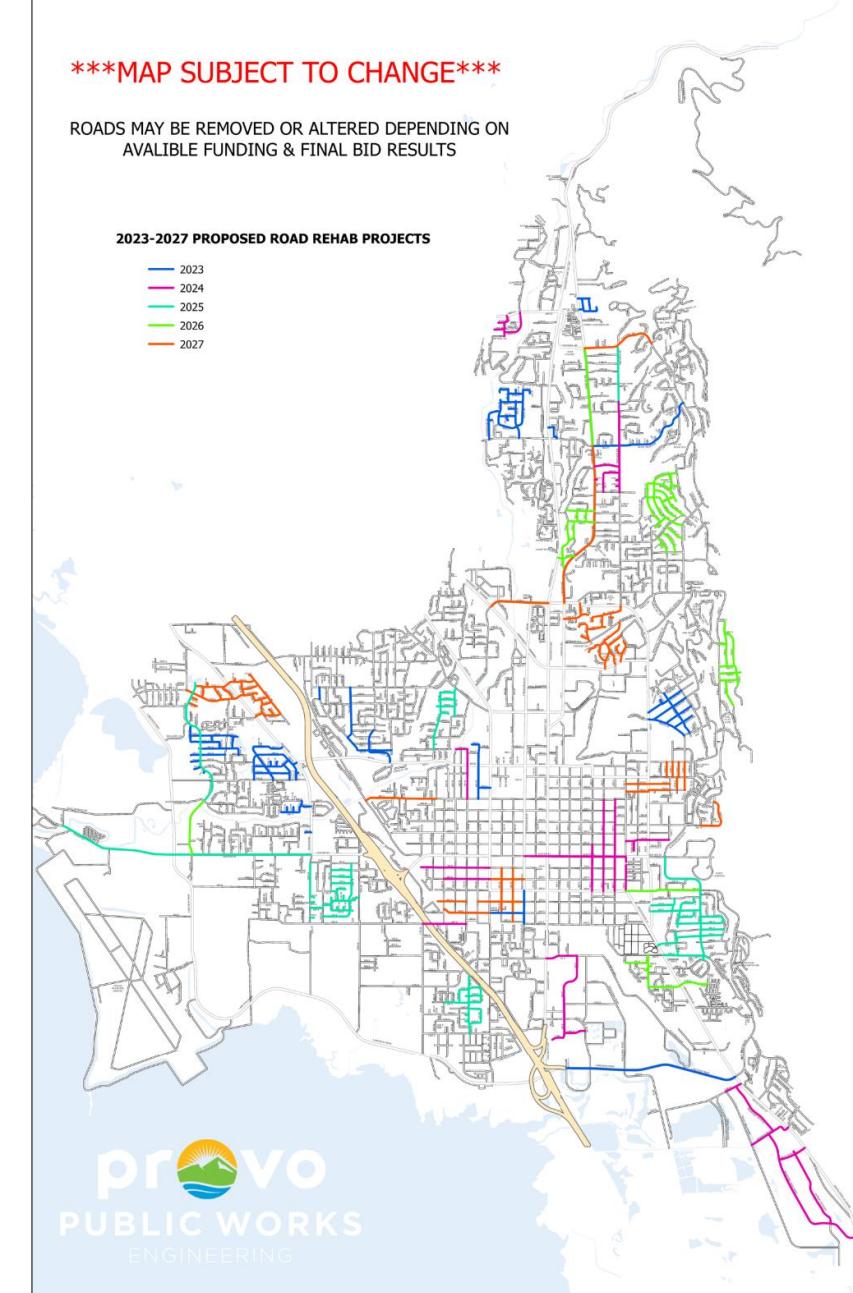


MAP SUBJECT TO CHANGE

ROADS MAY BE REMOVED OR ALTERED DEPENDING ON
AVAILABLE FUNDING & FINAL BID RESULTS

2023-2027 PROPOSED ROAD REHAB PROJECTS

- 2023
- 2024
- 2025
- 2026
- 2027



SIDEWALK SURVEY

SIDEWALK DISTRESS



VERTICAL SEPARATION



MULTIPLE CRACKS



MISSING PANELS



HORIZONTAL SEPARATION



SAG



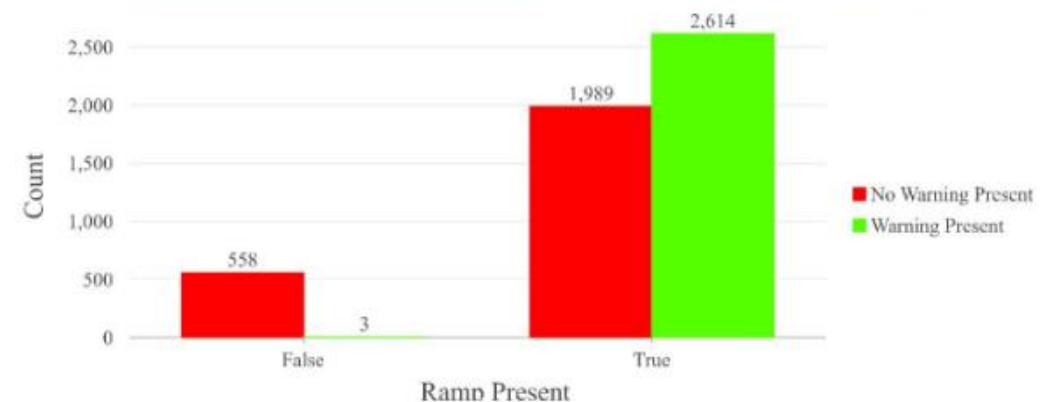
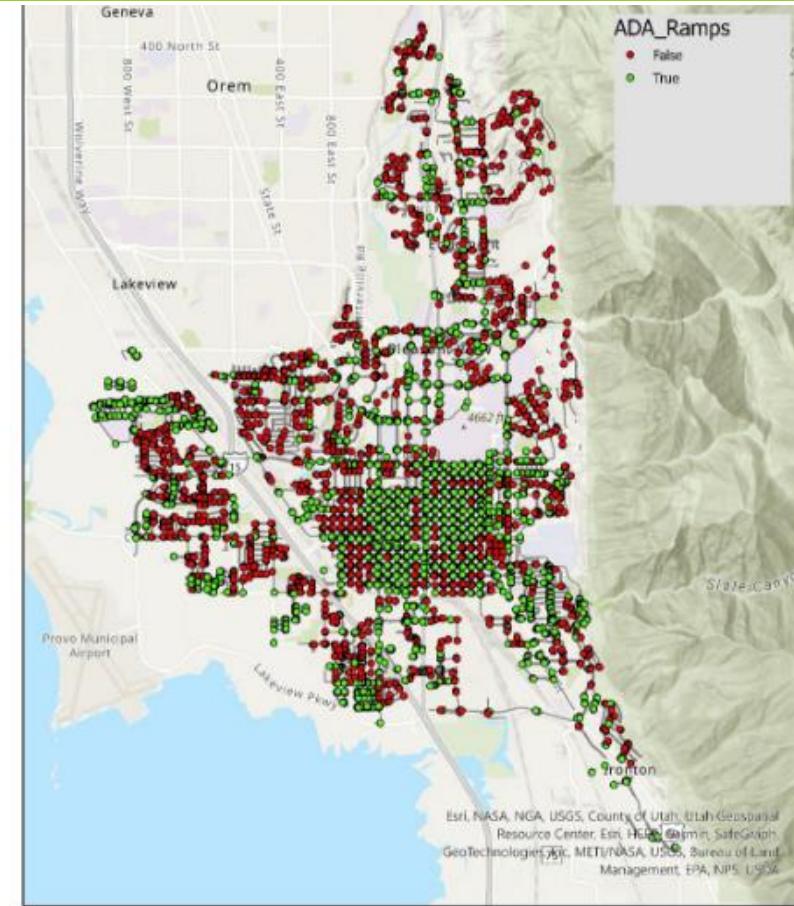
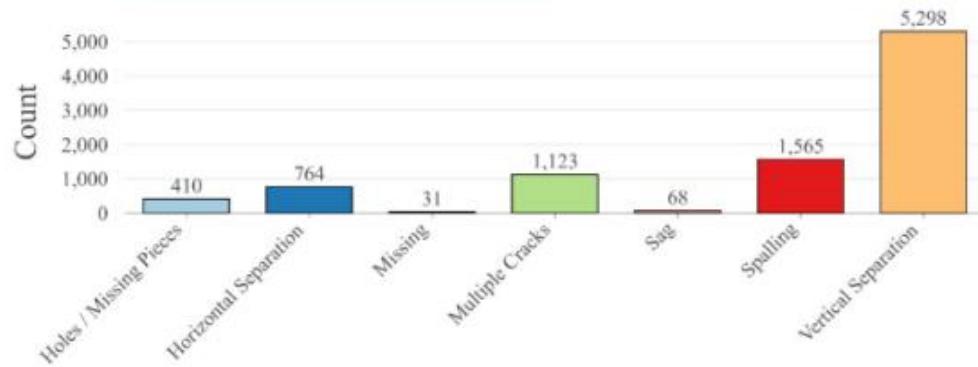
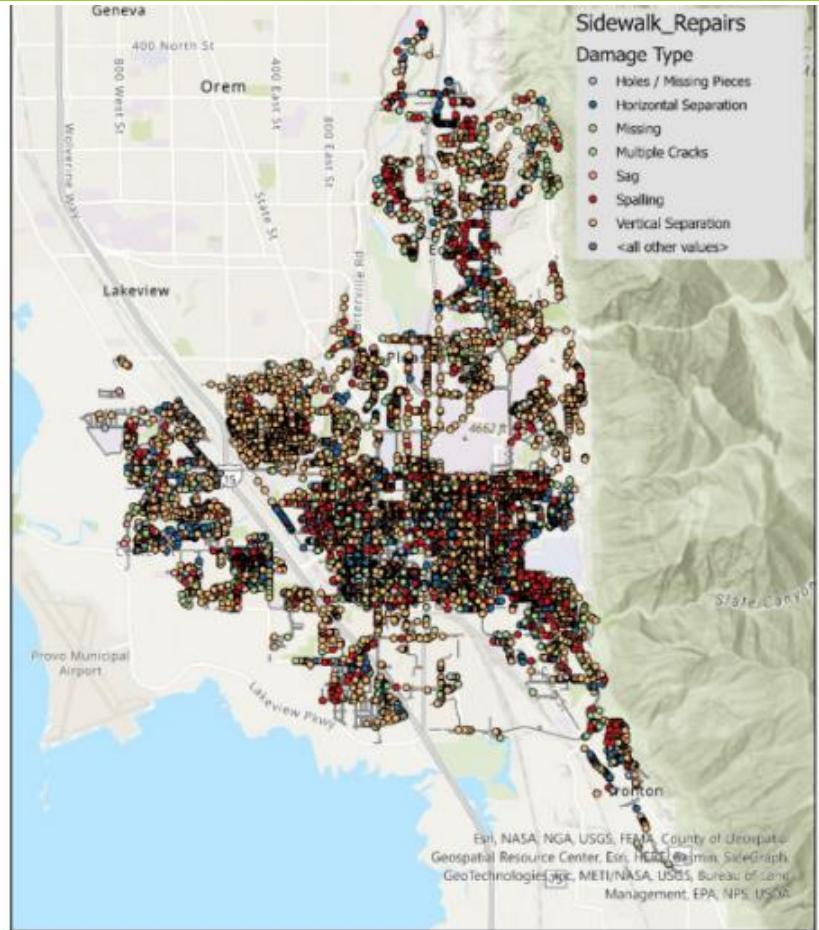
SPALLING



MISSING PIECES/HOLES



MISSING ADA RAMP

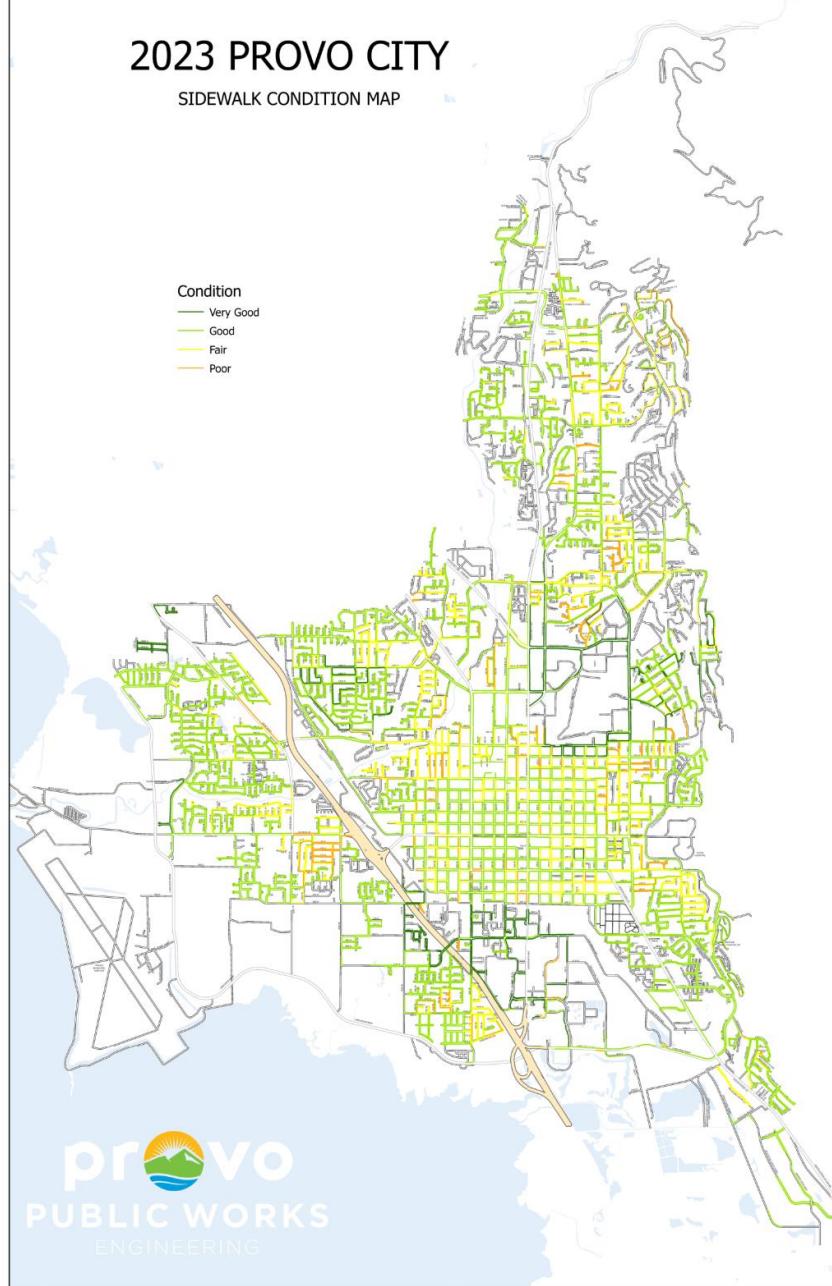


2023 PROVO CITY

SIDEWALK CONDITION MAP

Condition

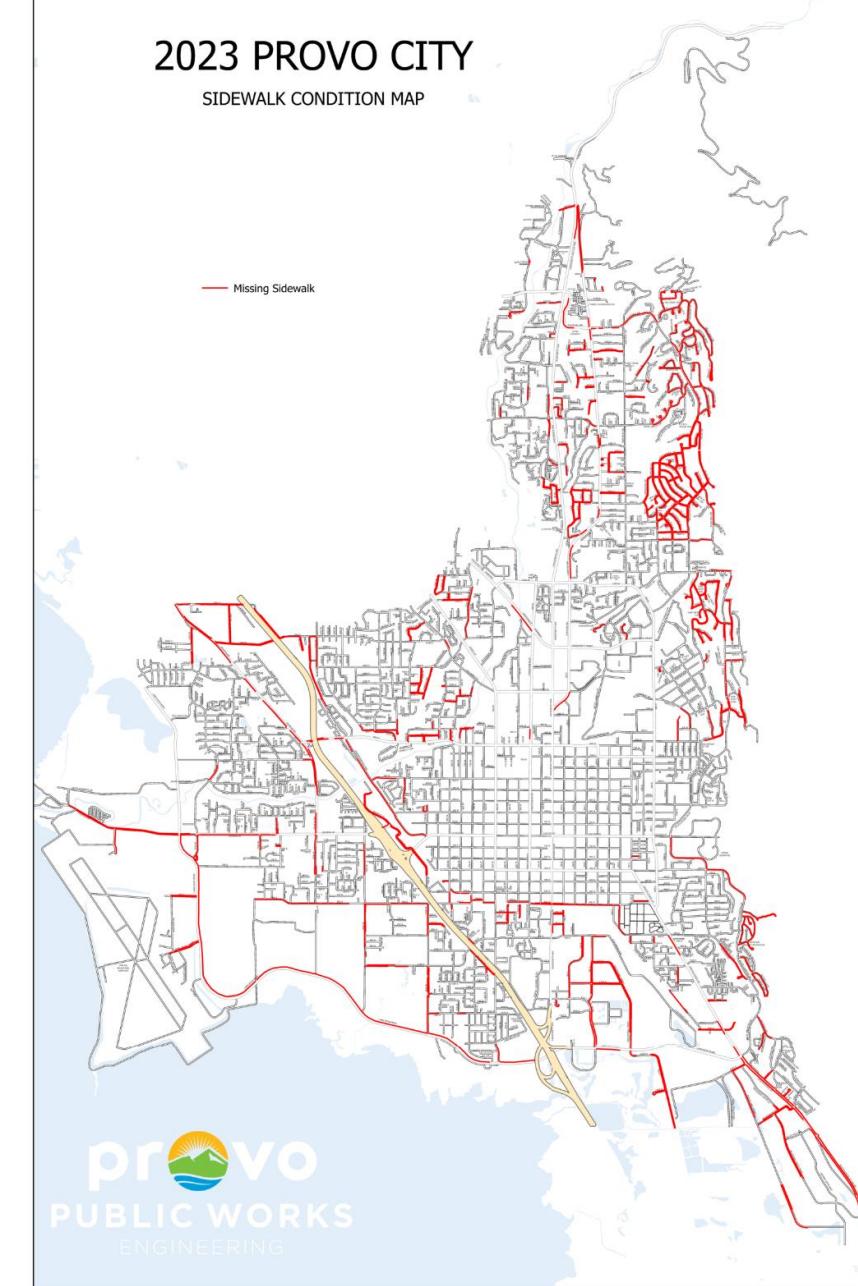
- Very Good
- Good
- Fair
- Poor



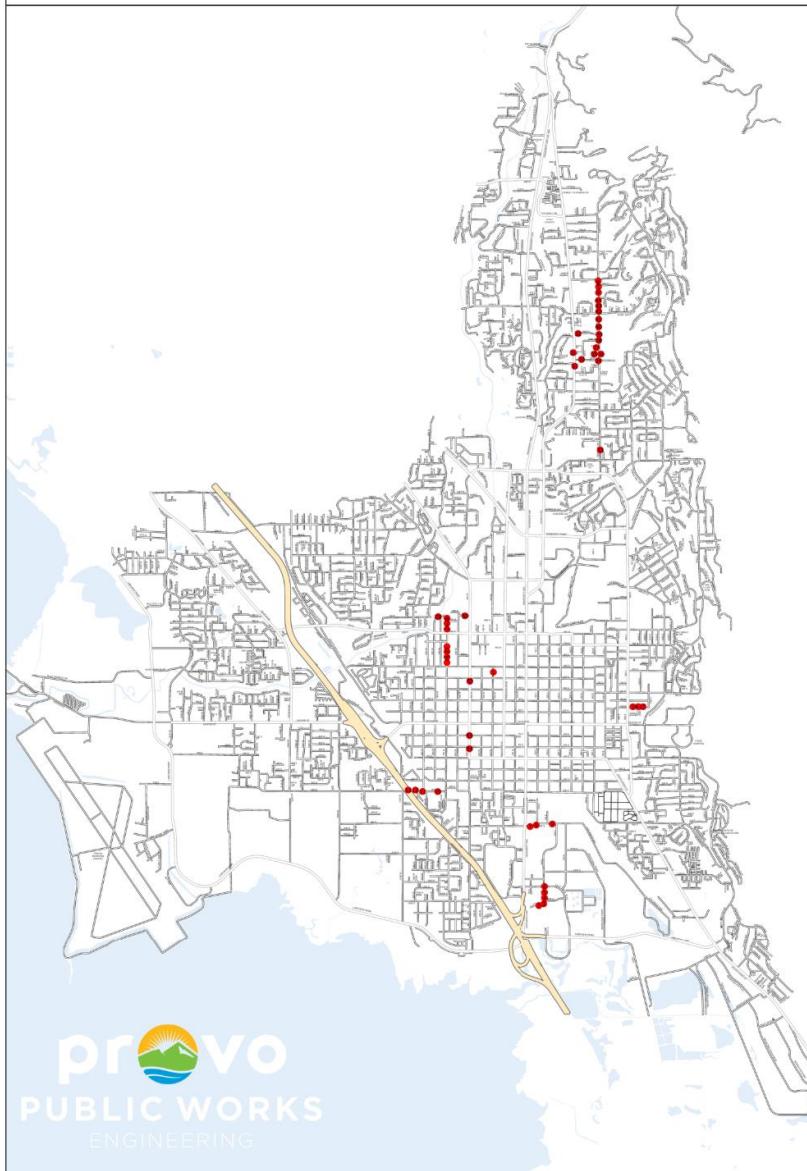
2023 PROVO CITY

SIDEWALK CONDITION MAP

Missing Sidewalk



2023 PROVO CITY SIDEWALK REPLACEMENT

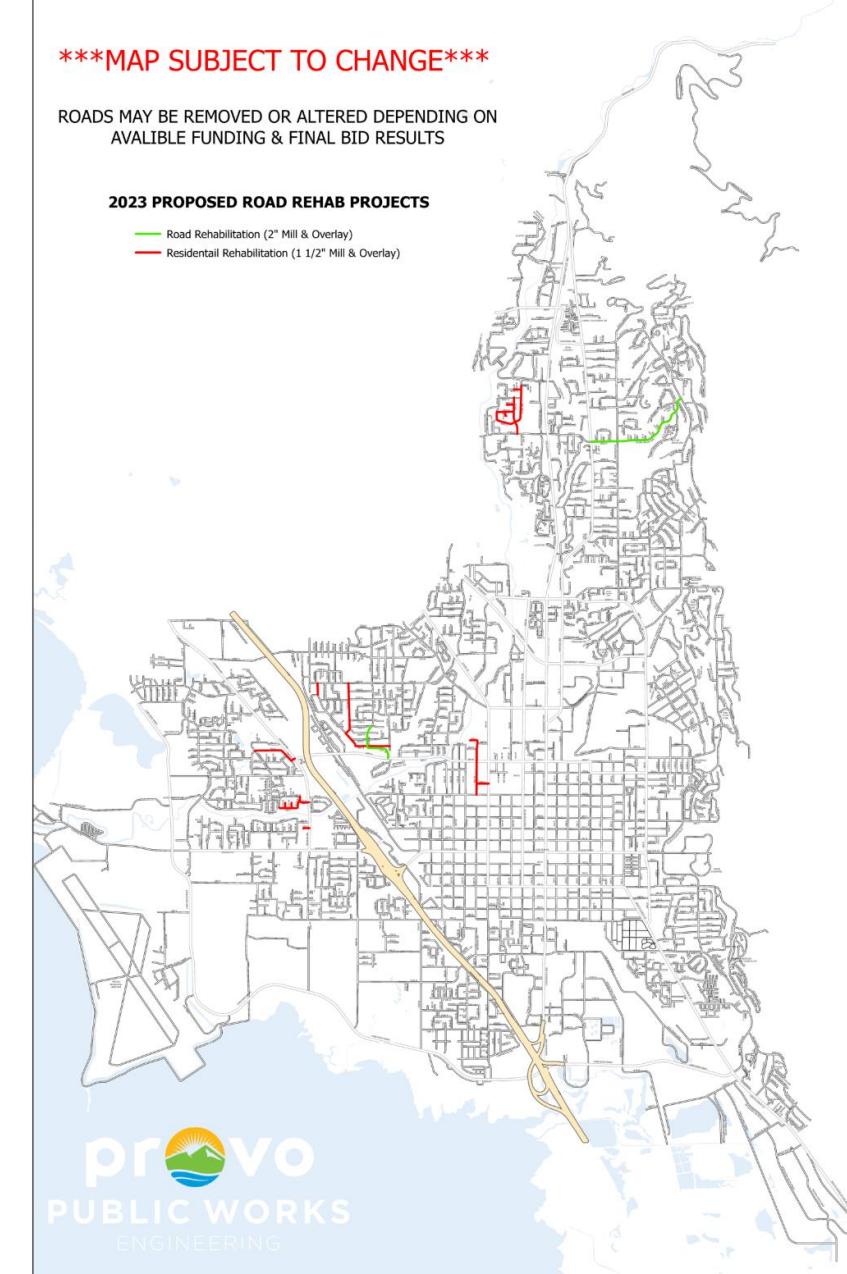


*****MAP SUBJECT TO CHANGE*****

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QUESTIONS??