

RETICLE RED TUTORIAL

Map Maker

**Turn any city into a layered laser map
from real OpenStreetMap data on our own map, at true size.**

Recorded on the live site (v3.76) · Seattle waterfront · SVG, DXF, LightBurn

reticle-red.com/map-maker

PART 1 OF 3

Find and preview

Search with suggestions, the map styles, size, framing, layers and a free preview

RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview

reticle-red.com/map-maker

RETICLE
RED

Create

Prep

Make

Learn

Q

MY WORK

77 CR

COMMAND CENTER · CREATE · MAP MAKER

MAP MAKER

05M

City & Topo Map Generator for Laser Engraving
Engrave a map of any city, coastline or mountain range — streets, contours and depth

ACTION COST

PREVIEW FREE

EXPORT 2 CR

BALANCE

77 CR

RUN POLICY

EXIT

GUIDE

SHOWCASE

LOCATE

SPLIT

EDITOR

Address, city, landmark...

Q

New York City

Manhattan

Paris

London

Tokyo

Venice

San Francisco

Surprise me

PREVIEW MAP — FREE

5 FREE PREVIEWS DAILY · FIRST EXPORT 2 CR

Layers

Roads

Frame

Label

Marks

Relief

Stack

COLOR PRESETS

Dark Laser

Natural Wood

Blueprint

Minimal

FEATURE LAYERS

Ocean & Coast

DARK

LIGHT

STREET

CAPTURE AREA

New York

World Trade Center

Places from GeoNames · OpenStreetMap contributors · Map data

Jobs

ABOUT THIS TOOL

Capabilities, questions operators ask, and related guides for this workspace.

STEP 1 OF 6

Search

Type a city, an address or a landmark.
Suggestions appear as you type.

CLOSE-UP

Address, city, landmark...

Q

New York City

RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview

The screenshot shows the Reticle Red Map Maker interface. At the top, the URL is `reticle-red.com/map-maker`. The header includes the Reticle Red logo, navigation links (Create, Prep, Make, Learn), a search bar, and a 'MY WORK' section. The main content area features a 'MAP MAKER' section with a description: 'City & Topo Map Generator for Laser Engraving. Engrave a map of any city, coastline or mountain range — streets, contours and depth.' It also displays an 'ACTION COST' of 'PREVIEW FREE' and 'EXPORT 2 CR', along with a 'BALANCE' of '77 CR'. A 'RUN POLICY' button is visible. Below this, there's a search bar with 'Seattle, Washington' entered, and a list of suggested locations: Seattle, Washington, Manhattan, Paris, London, Tokyo, Venice, San Francisco, and 'Surprise me'. A large orange button reads 'PREVIEW MAP - FREE' with '5 FREE PREVIEWS DAILY - FIRST EXPORT 2 CR'. The 'Layers' section includes 'Roads', 'Frame', 'Label', 'Marks', 'Relief', and 'Stock'. The 'COLOR PRESETS' section has 'Dark Laser', 'Natural Wood', 'Blueprint', and 'Minimal'. The 'FEATURE LAYERS' section has 'Ocean & Coast' checked. A 'CLOSE-UP' window shows three map styles: 'DARK' (selected), 'LIGHT', and 'STREET'. The main map area shows a street map of Seattle with a 'CAPTURE AREA' highlighted. A 'Jobs' button is visible in the bottom right corner. At the bottom, there's a link to 'ABOUT THIS TOOL'.

STEP 1 OF 6

Dark · Light · Street

Three looks, all from our own map.

Only for framing: the burn uses map data.

CLOSE-UP

DARK LIGHT STREET

RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview

The screenshot shows the Reticle Red Map Maker interface. At the top, the URL is `reticle-red.com/map-maker`. The header includes the Reticle Red logo, navigation links (Create, Prep, Make, Learn), a search bar, and a 'MY WORK' section. The main content area features a 'MAP MAKER' title, a description, and a '05M' badge. A 'CAPTURE AREA' is highlighted on a map of Seattle, Washington. The left sidebar contains a search bar, location suggestions, and a 'PREVIEW MAP - FREE' button. The bottom left shows a 'PHYSICAL OUTPUT SIZE' menu with options like 100 x 100 mm, 150 x 150 mm, 200 x 200 mm, 300 x 300 mm, 150 x 225 mm Portrait, 200 x 300 mm Portrait, 225 x 150 mm Landscape, and 300 x 200 mm Landscape. The bottom right shows a 'CLOSE-UP' inset of the physical output size options.

reticle-red.com/map-maker

RETICLE RED

Create Prep Make Learn

COMMAND CENTER · CREATE · MAP MAKER

MAP MAKER 05M

City & Topo Map Generator for Laser Engraving
Engrave a map of any city, coastline or mountain range — streets, contours and depth

ACTION COST
PREVIEW FREE
EXPORT 2 CR

BALANCE 77 CR

RUN POLICY EXIT GUIDE SHOWCASE LOCATE SPLIT EDITOR

Seattle, Washington

Seattle, Washington

Manhattan Paris London Tokyo Venice

San Francisco Surprise me

PREVIEW MAP - FREE
5 FREE PREVIEWS DAILY · FIRST EXPORT 2 CR

Layers Roads Frame Label Marks Relief Stack

PHYSICAL OUTPUT SIZE

100 x 100 mm 150 x 150 mm

200 x 200 mm 300 x 300 mm

150 x 225 mm Portrait 200 x 300 mm Portrait

225 x 150 mm Landscape 300 x 200 mm Landscape

DARK LIGHT STREET

Jobs

ABOUT THIS TOOL · Capabilities, questions operators ask, and related guides for this workspace.

STEP 2 OF 6

Physical Output Size

300 × 200 mm Landscape, in real mm.

Custom sizes too: 20–1500 mm, or inches.

CLOSE-UP

The close-up shows the 'PHYSICAL OUTPUT SIZE' menu with the following options:

100 x 100 mm	150 x 150 mm
200 x 200 mm	300 x 300 mm
150 x 225 mm Portrait	200 x 300 mm Portrait
225 x 150 mm Landscape	300 x 200 mm Landscape

RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview

The screenshot shows the Reticle Red Map Maker web application. The interface is dark-themed. At the top, the URL 'reticle-red.com/map-maker' is visible. The header includes the 'RETICLE RED' logo, navigation links like 'Create', 'Prep', 'Make', and 'Learn', a search bar, and a 'MY WORK' section. Below the header, the 'MAP MAKER' section is highlighted, with a subtitle 'City & Topo Map Generator for Laser Engraving'. A 'PREVIEW FREE' button is prominent, along with a balance of '77 CR'. The main map area displays a satellite view of Seattle, Washington, with a red rectangular 'CAPTURE AREA' overlaid on the city grid. On the left sidebar, there's a search bar with 'Seattle, Washington' entered, and a list of suggested locations including Manhattan, Paris, London, Tokyo, Venice, and San Francisco. Below this, a 'PREVIEW MAP - FREE' button is shown, indicating '5 FREE PREVIEWS DAILY - FIRST EXPORT 2 CR'. The sidebar also features a 'Layers' section with options like 'Roads', 'Frame', 'Label', 'Marks', 'Relief', and 'Stack'. A 'CUSTOM SIZE' section allows setting dimensions (300 x 200 mm) and a 'CARTOGRAPHIC DECOR' section with a 'Compass Rose' toggle. At the bottom, a 'DARK' button is visible, and a footer link points to 'ABOUT THIS TOOL'.

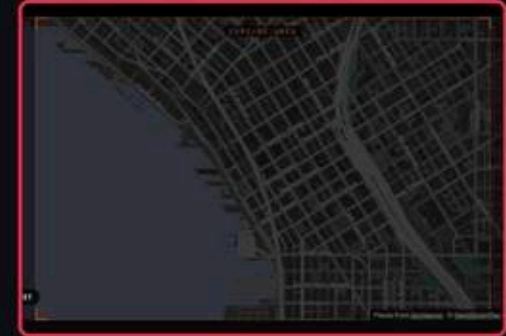
STEP 3 OF 6

Frame the scene

Drag and zoom the map.

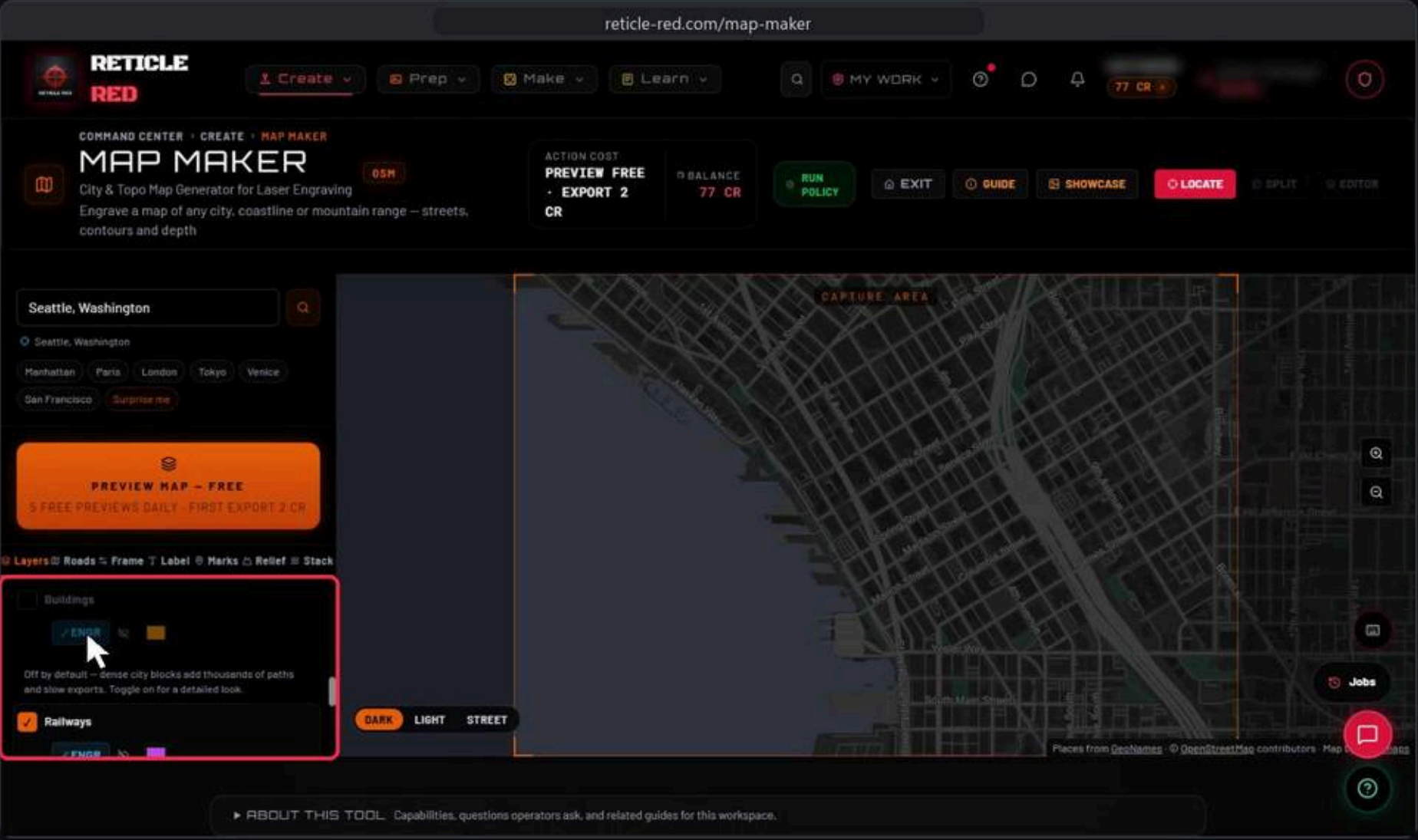
Highlighted: the area the preview captures.

CLOSE-UP



RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview



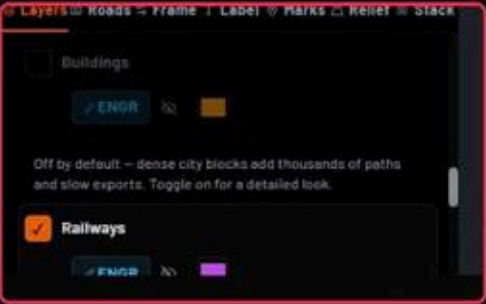
STEP 4 OF 6

Layers

Each feature: colour, weight, CUT or ENGR.

Buildings start off. Switch them on.

CLOSE-UP



RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview

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RETICLE RED

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MY WORK

77 CR

COMMAND CENTER · CREATE · MAP MAKER

MAP MAKER

05M

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ACTION COST

PREVIEW FREE

EXPORT 2 CR

BALANCE

77 CR

RUN POLICY

EXIT

GUIDE

SHOWCASE

LOCATE

SPLIT

EDITOR

Seattle, Washington

Q

Seattle, Washington

Manhattan

Paris

London

Tokyo

Venice

San Francisco

Surprise me

PREVIEW MAP — FREE

5 FREE PREVIEWS DAILY - FIRST EXPORT 2 CR

Layers

Roads

Frame

Label

Marks

Relief

Stack

Buildings

ENGR

WEIGHT

0.4

Railways

ENGR

DARK

LIGHT

STREET

CAPTURE AREA

Jobs

ABOUT THIS TOOL

Capabilities, questions operators ask, and related guides for this workspace.

STEP 5 OF 6

Preview Map — Free

Free, up to 5 previews a day.

Real OpenStreetMap paths for this frame.

CLOSE-UP

PREVIEW MAP — FREE

5 FREE PREVIEWS DAILY - FIRST EXPORT 2 CR

RETICLE RED · MAP MAKER TUTORIAL

Find and preview — Search with suggestions, the map styles, size, framing, layers and a free preview

reticle-red.com/map-maker

RETICLE RED

Create ▾

Prep ▾

Make ▾

Learn ▾

Q

MY WORK ▾

77 CR

COMMAND CENTER · CREATE · MAP MAKER

MAP MAKER

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OSM

ACTION COST

PREVIEW FREE

EXPORT 2 CR

BALANCE 77 CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

LOCATE

SPLIT

EDITOR

Seattle, Washington

Q

Seattle, Washington

REFRESH FREE PREVIEW

5 FREE PREVIEWS DAILY · FIRST EXPORT 2 CR

Exports cost 2 CR · Balance: 77 CR

WAYS

8752

ROADS

5975

WATER

9

BLDGS

2572

Layers Roads Frame Label Marks Relief Stack

Buildings 2572

ENGR

WEIGHT 8.4

Railways 49

SEATTLE, WASHINGTON

SEATTLE, WASHINGTON

50%

ADJUST MAP

REFRESH FREE

SAVE TO ARMORY

EXPORT SVG

DXF

TILES

EXPORT .LBRN2

MATERIAL / PNG

Jobs

?

ABOUT THIS TOOL

Capabilities, questions operators ask, and related guides for this workspace.

STEP 6 OF 6

The vector preview

Counts: WAYS · ROADS · WATER · BLDGS.

Wheel to zoom, drag to pan.

CLOSE-UP

Exports cost 2 CR · Balance: 77 CR			
WAYS	ROADS	WATER	BLDGS
8752	5975	9	2572

PART 2 OF 3

Style and refresh

Street names, the title, a free refresh and the material preview

RETICLE RED · MAP MAKER TUTORIAL

Style and refresh — Street names, the title, a free refresh and the material preview

The screenshot shows the Reticle Red Map Maker interface. At the top, the URL is `reticle-red.com/map-maker`. The header includes the Reticle Red logo, navigation links (Create, Prep, Make, Learn), a search bar, and a 'MY WORK' section. The main area features a 'COMMAND CENTER' with a 'MAP MAKER' section, a 'City & Topo Map Generator for Laser Engraving', and a '05M' badge. Below this is a 'REFRESH FREE PREVIEW' button and a table of exports: WAYS (8752), ROADS (5975), WATER (9), and BLOGS (2572). The 'Layers' section is active, showing 'Roads' selected. The 'Typography' settings for 'Street Names' are highlighted with a red box, showing a 'STREET NAMES' checkbox, an 'ENGR' button, and a description: 'Single-line vector names follow the clearest road segments. Coverage prefers major roads, then fills open space with local streets.' The bottom of the interface includes buttons for 'ADJUST MAP', 'REFRESH FREE', 'SAVE TO ARMORY', 'EXPORT SVG', 'DXF', 'TILES', 'EXPORT .LBRN2', and 'MATERIAL / PNG'.

reticle-red.com/map-maker

RETICLE RED

Create Prep Make Learn

COMMAND CENTER · CREATE · MAP MAKER

MAP MAKER 05M

City & Topo Map Generator for Laser Engraving

Engrave a map of any city, coastline or mountain range — streets, contours and depth

ACTION COST
PREVIEW FREE
EXPORT 2 CR

BALANCE 77 CR

RUN POLICY EXIT START OVER GUIDE SHOWCASE LOCATE SPLIT EDITOR

Seattle, Washington

Seattle, Washington

REFRESH FREE PREVIEW

5 FREE PREVIEWS DAILY · FIRST EXPORT 2 CR

Exports cost 2 CR · Balance: 77 CR

WAYS	ROADS	WATER	BLOGS
8752	5975	9	2572

Layers Roads Frame Label Marks Relief Stack

TYPOGRAPHY

☐ Street Names

ENGR

Single-line vector names follow the clearest road segments. Coverage prefers major roads, then fills open space with local streets.

ADJUST MAP REFRESH FREE SAVE TO ARMORY EXPORT SVG DXF TILES

EXPORT .LBRN2 MATERIAL / PNG

ABOUT THIS TOOL Capabilities, questions operators ask, and related guides for this workspace.

STEP 1 OF 4

Roads

Four road classes, each its own layer.

Street Names: single-line vector names.

CLOSE-UP

The close-up shows the 'Typography' settings for 'Street Names'. It includes a 'STREET NAMES' checkbox, an 'ENGR' button, and a description: 'Single-line vector names follow the clearest road segments. Coverage prefers major roads, then fills open space with local streets.'

Layers Roads Frame Label Marks Relief Stack

TYPOGRAPHY

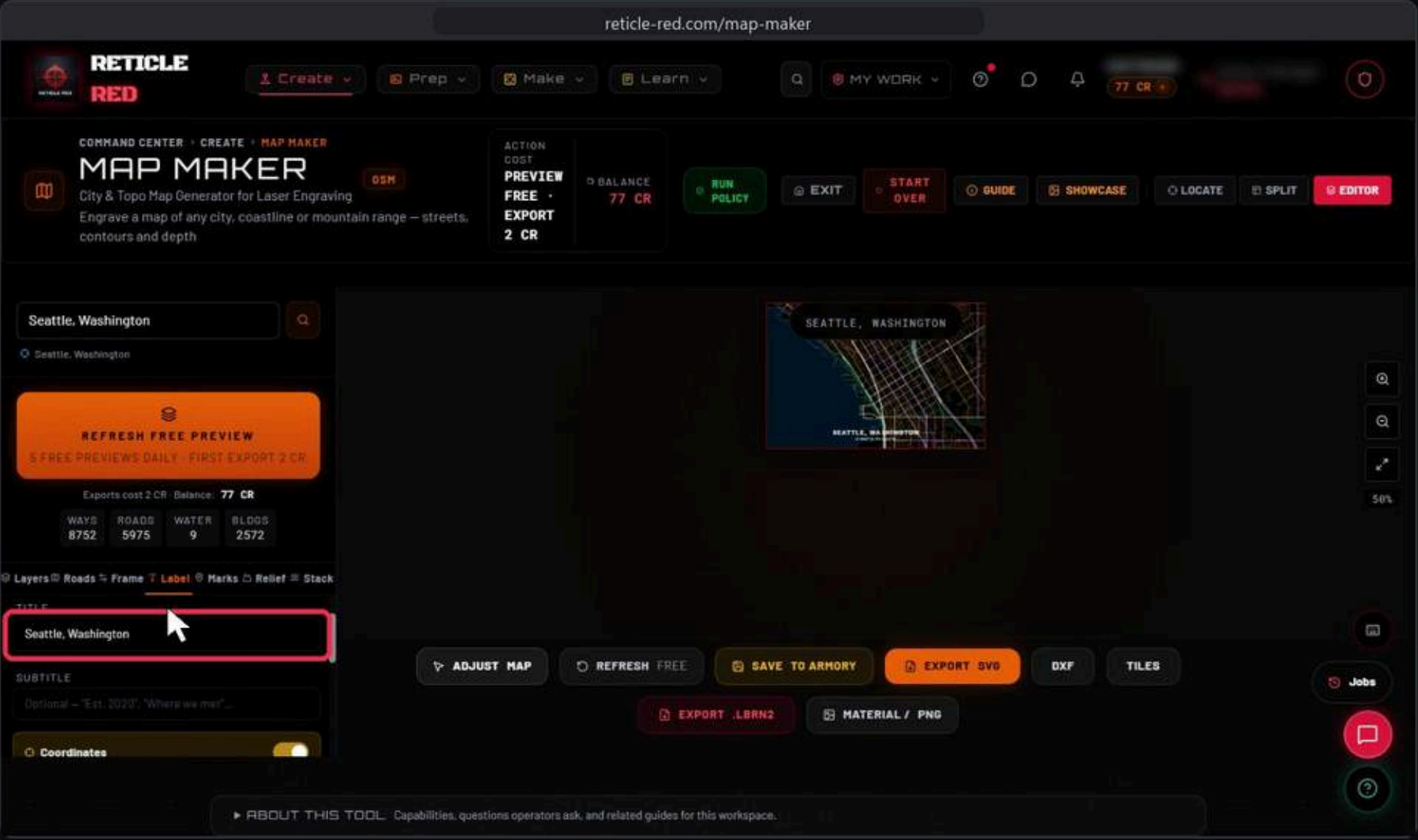
☐ Street Names

ENGR

Single-line vector names follow the clearest road segments. Coverage prefers major roads, then fills open space with local streets.

RETICLE RED · MAP MAKER TUTORIAL

Style and refresh — Street names, the title, a free refresh and the material preview



STEP 2 OF 4

Label

Title: Seattle. Coordinates engrave below.

Engraver: single-line font, pure paths.

CLOSE-UP



RETICLE RED · MAP MAKER TUTORIAL

Style and refresh — Street names, the title, a free refresh and the material preview

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reticle-red.com/map-maker

RETICLE RED

Create Prep Make Learn

COMMAND CENTER · CREATE · MAP MAKER

MAP MAKER OSM

City & Topo Map Generator for Laser Engraving
Engrave a map of any city, coastline or mountain range — streets, contours and depth

ACTION COST
PREVIEW FREE ·
EXPORT 2 CR

BALANCE 77 CR

RUN POLICY EXIT START OVER GUIDE SHOWCASE LOCATE SPLIT EDITOR

Seattle, Washington

Seattle, Washington

REFRESH FREE PREVIEW
5 FREE PREVIEWS DAILY · FIRST EXPORT 2 CR

Exports cost 2 CR · Balance: 77 CR

WAYS 8752 ROADS 5975 WATER 9 BLOBS 2572

Layers Roads Frame Label Marks Relief Stack

TYPEFACE

Modern Serif

Script Mono

Engraver ★

Single-line stroke font — exports as pure paths, renders

ADJUST MAP REFRESH FREE SAVE TO ARMORY EXPORT SVG DXF TILES

EXPORT .LBRN2 MATERIAL / PNG

ABOUT THIS TOOL · Capabilities, questions operators ask, and related guides for this workspace.

STEP 3 OF 4

ADJUST MAP → REFRESH

ADJUST MAP: back to the map to reframe.

Refresh Free Preview: new data, same styling.

CLOSE-UP

ADJUST MAP

RETICLE RED · MAP MAKER TUTORIAL

Style and refresh — Street names, the title, a free refresh and the material preview

reticle-red.com/map-maker

MATERIAL PREVIEW

See the burn on a real blank, then download a shareable PNG. Approximate — actual contrast depends on your power/speed.

Baltic Birch

Walnut

Slate

Studio Black



CLOSE

DOWNLOAD PNG

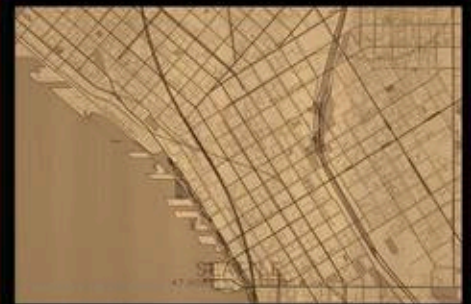
STEP 4 OF 4

Material / PNG

Baltic Birch · Walnut · Slate · Studio Black.

Free to look; DOWNLOAD PNG is an export.

CLOSE-UP



PART 3 OF 3

Export the cut files

One 2-credit export unlocks SVG, DXF and LightBurn

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Export the cut files — One 2-credit export unlocks SVG, DXF and LightBurn

The screenshot shows the Reticle Red Map Maker web application. The interface is dark-themed with orange and green accents. At the top, the URL 'reticle-red.com/map-maker' is visible. The main header includes the Reticle Red logo, navigation links (Create, Prep, Make, Learn), a search bar, and a 'MY WORK' dropdown. Below the header, the 'MAP MAKER' section is active, displaying 'COMMAND CENTER · CREATE · MAP MAKER'. It includes a description: 'City & Topo Map Generator for Laser Engraving. Engrave a map of any city, coastline or mountain range — streets, contours and depth.' A 'OSM' button is also present. To the right, an 'ACTION COST' box shows 'PREVIEW FREE' and 'EXPORT 2 CR'. A 'BALANCE' of '77 CR' is displayed. A row of buttons includes 'RUN POLICY', 'EXIT', 'START OVER', 'GUIDE', 'SHOWCASE', 'LOCATE', 'SPLIT', and 'EDITOR'. The main map area shows a preview of 'SEATTLE, WASHINGTON'. On the left, there's a search bar with 'Seattle, Washington' entered, a 'REFRESH FREE PREVIEW' button, and a table of statistics: WAYS (8968), ROADS (6179), WATER (9), and BLOBS (2585). Below this, there are 'Layers' (Roads, Frame, Label, Marks, Relief, Stack) and 'COLOR PRESETS' (Dark Laser, Natural Wood, Blueprint, Minimal). At the bottom, there are buttons for 'ADJUST MAP', 'REFRESH FREE', 'SAVE TO ARMORY', 'EXPORT SVG' (highlighted with a red box), 'DXF', 'TILES', 'EXPORT .LBRN2', and 'MATERIAL / PNG'. A 'Jobs' button is also visible on the right side of the map area.

STEP 1 OF 3

EXPORT SVG

First export of this preview: 2 CR.

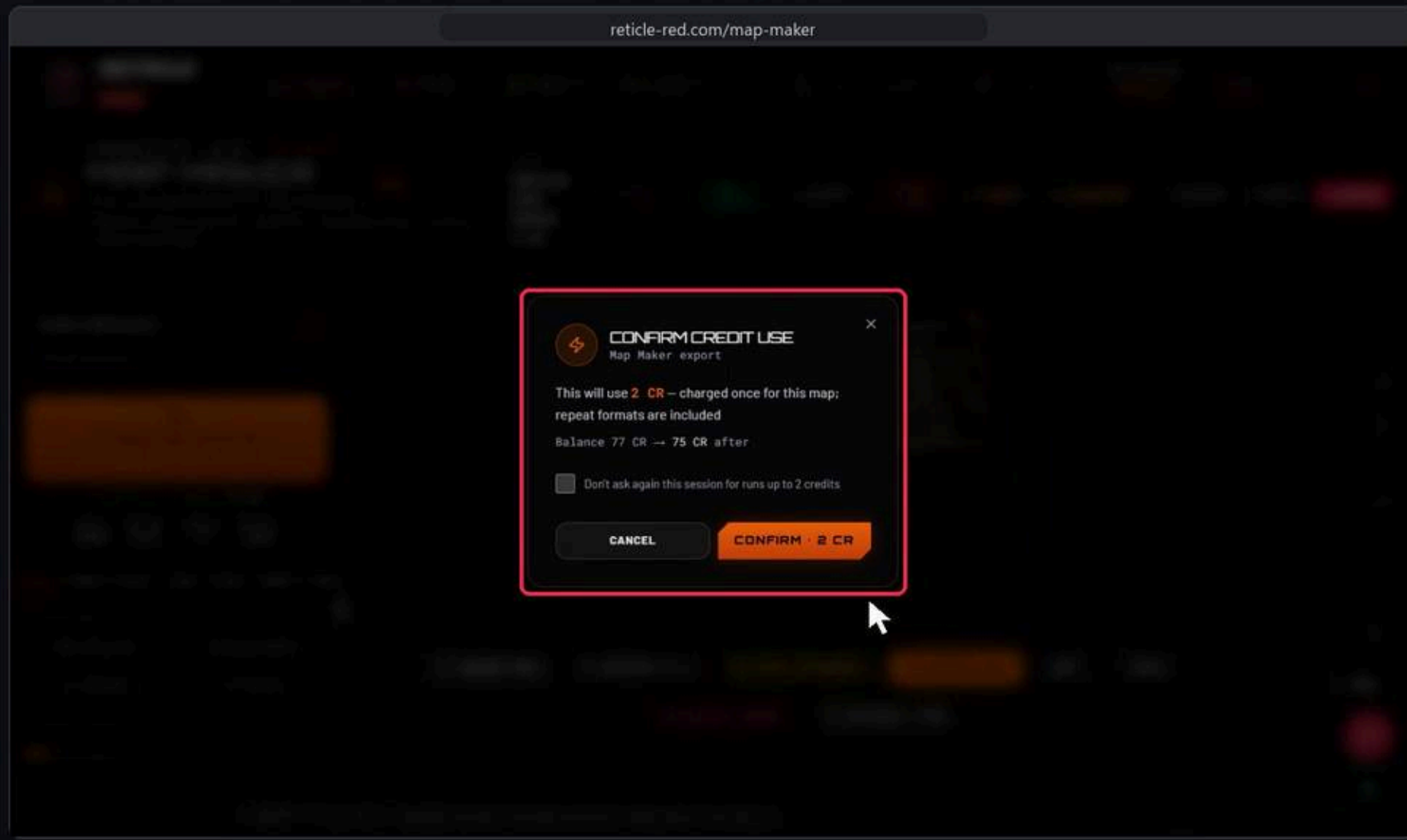
The cost shows before any charge.

CLOSE-UP

EXPORT SVG

RETICLE RED · MAP MAKER TUTORIAL

Export the cut files — One 2-credit export unlocks SVG, DXF and LightBurn



STEP 2 OF 3

Confirm · 2 CR

Balance 77 CR → 75 CR.

One charge unlocks every format.

CLOSE-UP



RETICLE RED · MAP MAKER TUTORIAL

Export the cut files — One 2-credit export unlocks SVG, DXF and LightBurn

The screenshot shows the Reticle Red Map Maker interface. The top navigation bar includes the Reticle Red logo, a 'Create' dropdown, and buttons for 'Prep', 'Make', and 'Learn'. A search bar and a 'MY WORK' dropdown are also present. The main header area displays 'COMMAND CENTER · CREATE · MAP MAKER' and 'MAP MAKER' with a description: 'City & Topo Map Generator for Laser Engraving'. It also shows 'Engrave a map of any city, coastline or mountain range — streets, contours and depth.' and a '0.5M' badge. A sidebar on the left shows 'Seattle, Washington' and a 'REFRESH FREE PREVIEW' button. The main map area shows a preview of Seattle, Washington. A bottom bar contains various buttons: 'ADJUST MAP', 'REFRESH FREE', 'SAVE TO ARMORY', 'EXPORT SVG', 'DXF', 'TILES', 'EXPORT .LBRN2', and 'MATERIAL / PNG'. A red box highlights the 'EXPORT SVG', 'EXPORT .LBRN2', and 'MATERIAL / PNG' buttons. A 'Jobs' button is also visible on the right side of the interface.

STEP 3 OF 3

DXF and .LBRN2

No second charge for this preview.

mm at true scale; one layer per feature.

CLOSE-UP



Your map, ready to burn

Create → Map Maker

Previews are free. The first export of a preview is 2 credits.

More tutorials: reticle-red.com/tutorials

Narration: AI voice (ElevenLabs). Screens: the real reticle-red.com. Map data © OpenStreetMap contributors. Places: GeoNames (CC BY).