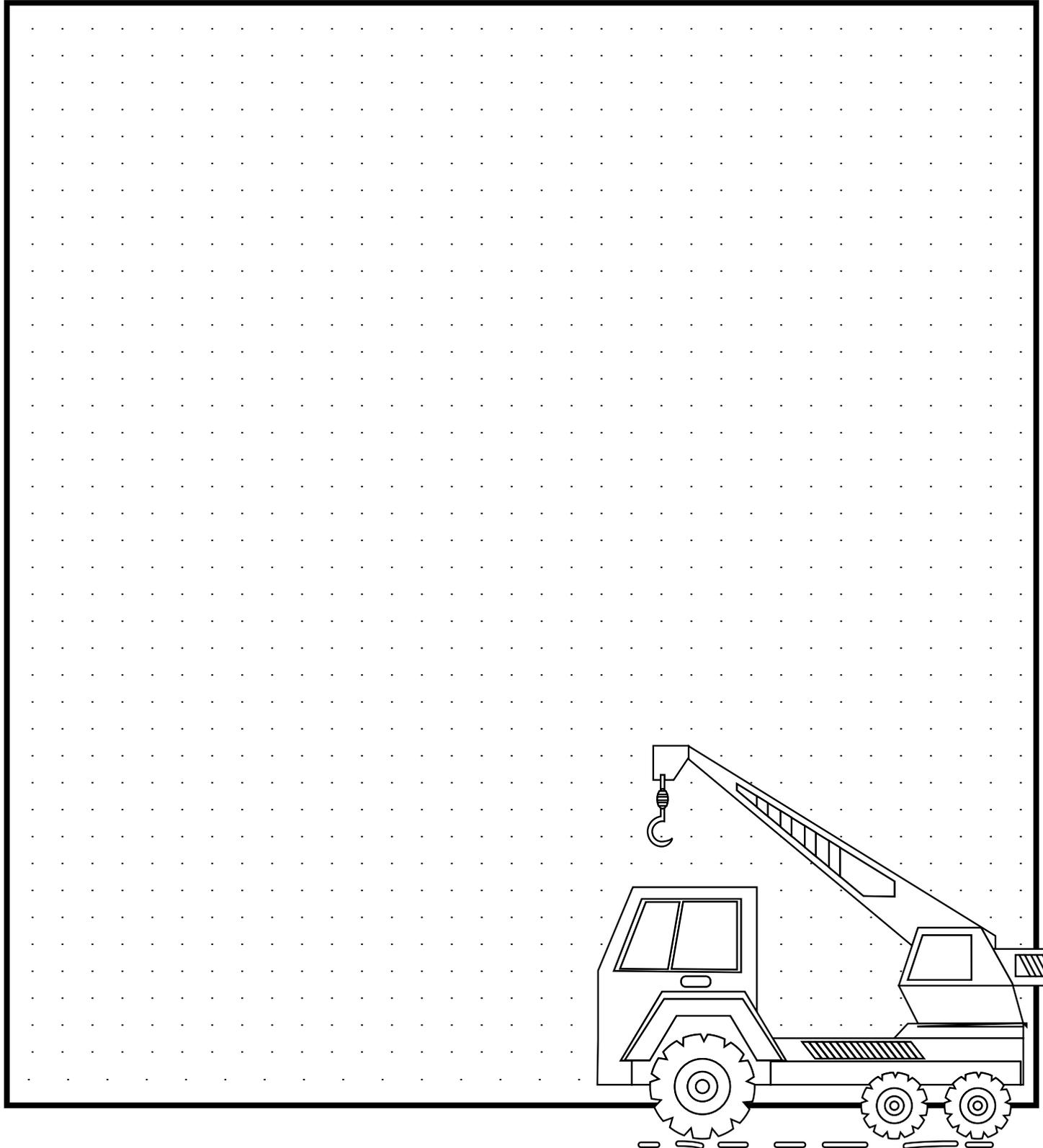


Design a New Construction Tool

Here at the Washington State Department of Transportation we're always looking for new and more efficient ways to get the job done.

Using recycled materials and other items you have around your house can you design a new tool and tell us how it works?





We use Variable Messaging Signs (VMS) to alert drivers to changing road conditions, lane closures and other safety issues. But the signs will only hold 51 characters – 17 per line – and that includes spaces.

What safety message would you want to write? Or if your message won't fit on the VMS, can you draw a poster to share your message?

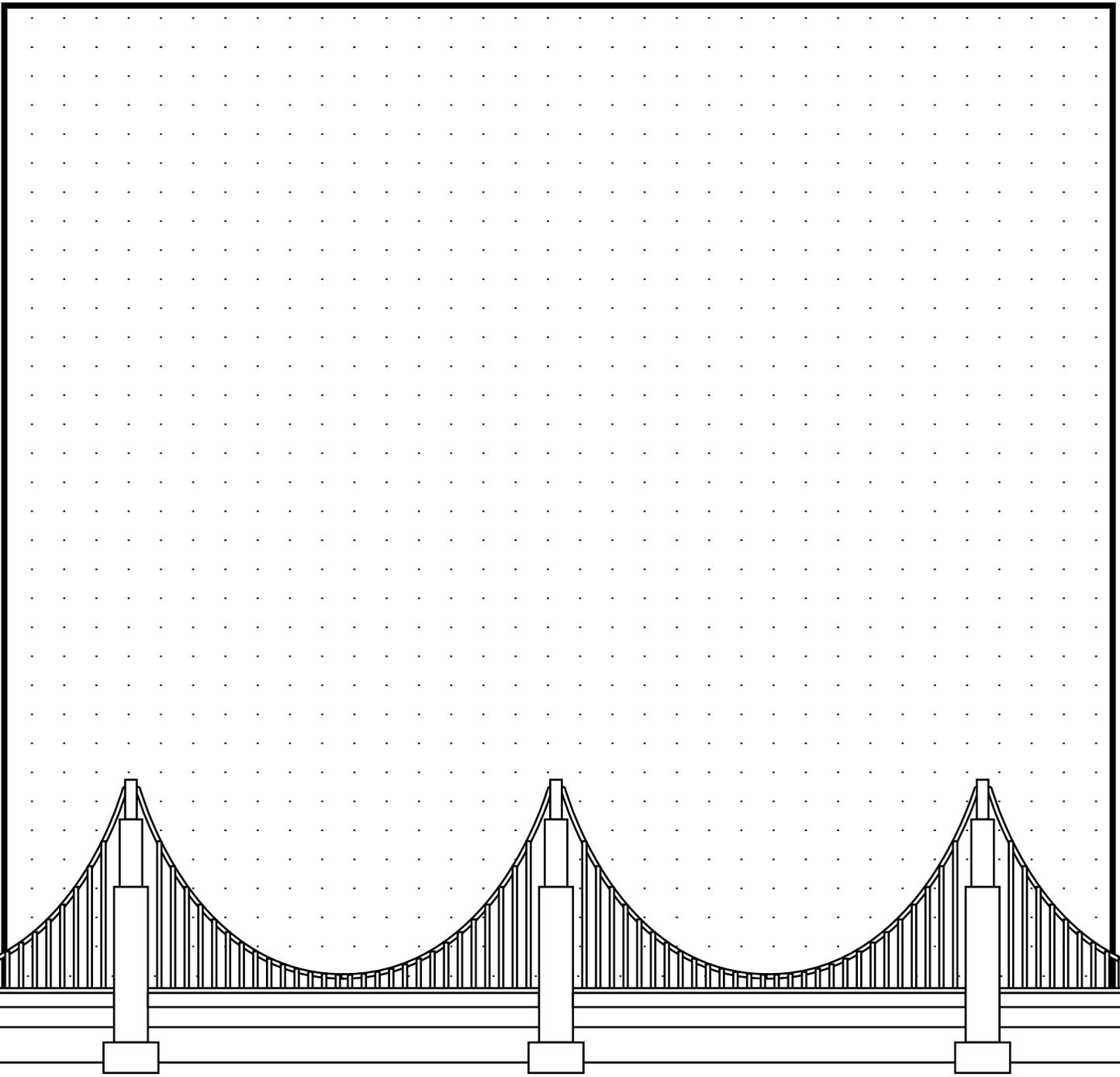
Engineer a Bridge

Engineers have a lot of different things to consider when crafting a bridge, how much weight will it need to carry? How will wind and other environmental factors effect it?

PBS has lot of great information on the different types of bridges, and the forces exerted on them. Make sure to check out the lessons and then try your hand at building a bridge.

Using popsicle sticks and glue, see if you can build a bridge that will span two feet and hold 10 pounds of weight.

Or try using marshmallows and toothpicks or dry spaghetti noodles to design a bridge that will span 6 inches and hold the weight of 20 pennies.



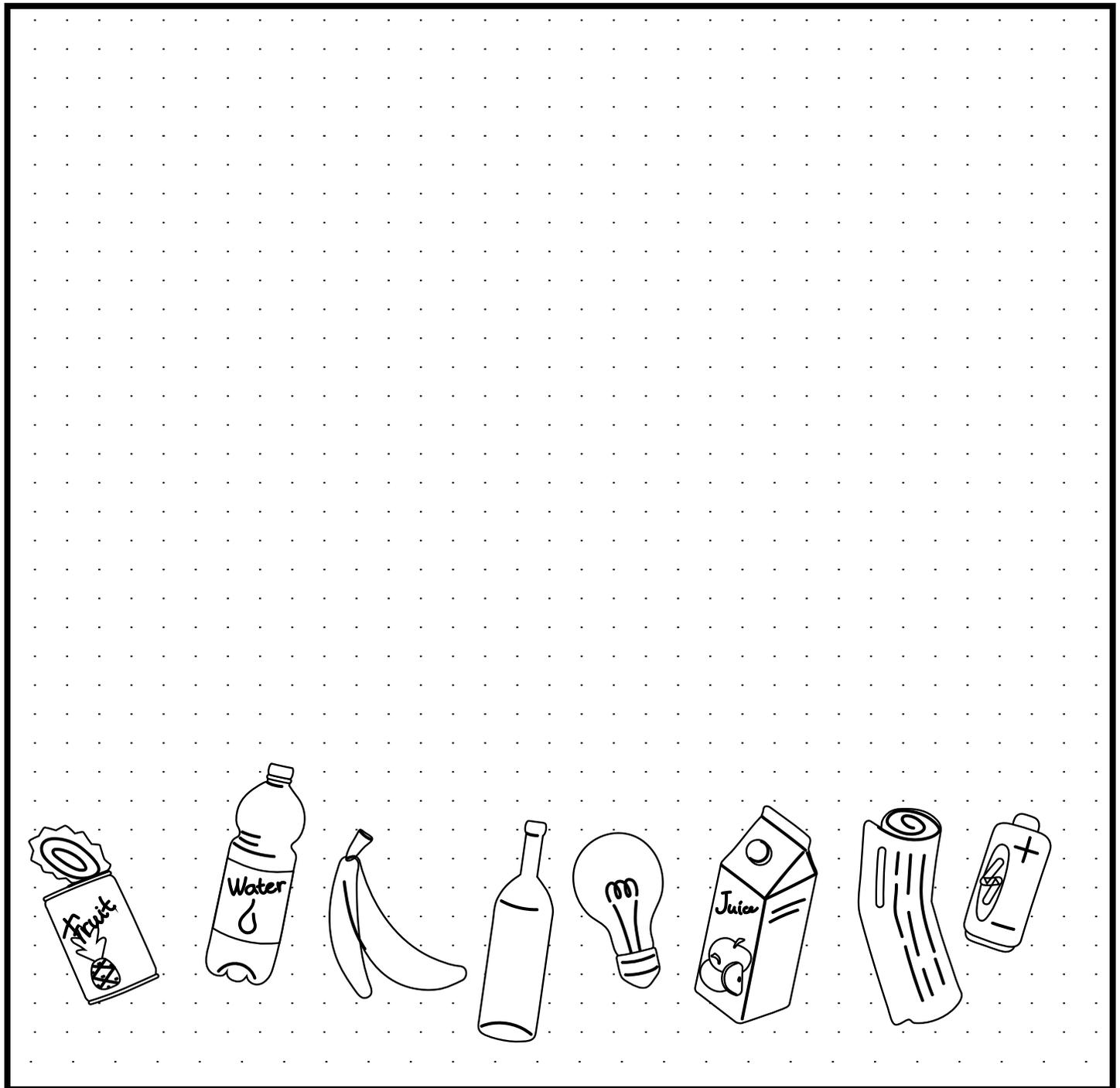
Roadside Litter

Our maintenance crews are always busy patching roadways, clearing debris, cleaning up graffiti, trimming grass and pulling weeds along the highway. **But this year has been tough due to the pandemic** because fewer people can work in the same space, and there's been less time to do the work.

Can you help our crews by cleaning up litter in your yard or helping to clean your home?

How would you help share the message to keep trash off the roadway?

Check out what other students did to help spread the word.



The form consists of a large rectangular area filled with a grid of small dots, intended for students to write their responses. At the bottom of this area, there is a row of eight simple line drawings representing common types of litter: a box of fruit, a plastic water bottle, a banana, a glass bottle, a lightbulb, a carton of juice, a roll of paper or fabric, and a battery.

Construction Equipment Scramble

We use lots of different rigs to build and maintain roadways, can you figure out which ones are below?

1. **CREAN** _____

2. **UKTCR** _____

3. **PAREV** _____

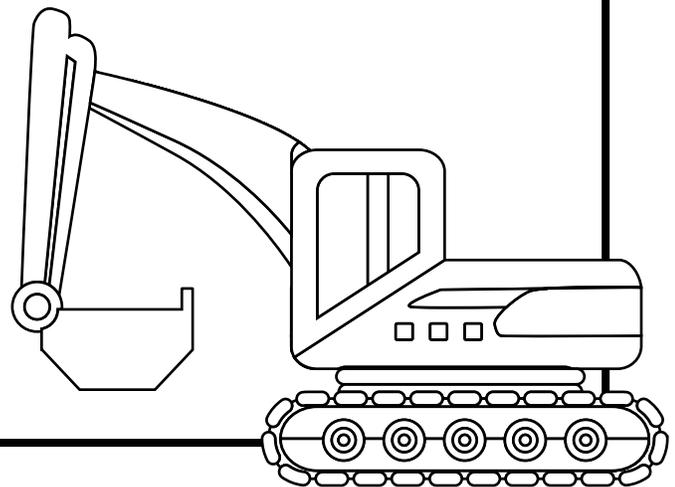
4. **DURZLOBEL** _____

5. **TCAOOMPRC** _____

6. **GRRDEA** _____

7. **TXVCAEORA** _____

8. **FRLKOFIT** _____





Transportation Word Search

Find and circle the transportation terms hidden in the puzzle

Words run horizontally, vertically, diagonally, and even backwards

E	U	S	U	H	J	N	A	W	T	W	A	O	I	F	N	R	F	M	V	N	T	Q	I	N	B	S	T	J	V
D	C	G	D	J	A	G	K	U	Z	O	G	Z	Z	N	O	B	B	Y	V	D	U	Z	B	G	G	Q	I	S	I
H	W	N	B	P	X	P	O	K	H	L	N	B	Z	A	T	R	R	Y	Q	X	N	L	E	L	A	I	J	S	A
G	V	T	A	J	A	B	R	I	L	P	I	H	D	Y	G	B	K	I	J	L	N	W	O	N	S	I	S	L	D
C	I	N	W	N	A	E	G	G	E	W	L	B	C	I	N	O	D	L	D	K	E	Y	Q	A	U	I	U	A	U
R	Z	B	Z	D	E	H	W	L	R	O	L	P	T	R	I	B	B	Q	I	G	L	H	P	P	O	B	X	B	C
J	N	E	N	N	W	T	C	J	L	N	O	M	Z	I	H	T	E	H	N	F	E	A	W	Y	V	O	J	E	T
J	K	U	I	A	L	Y	N	E	U	S	T	G	Y	Q	S	T	K	I	E	J	T	L	W	E	T	C	G	R	U
R	O	G	Y	U	C	X	B	I	E	E	N	O	C	Q	A	C	O	N	C	R	E	T	E	E	J	R	Q	S	L
R	N	X	I	I	A	S	P	H	A	L	T	E	X	C	W	A	R	C	H	I	T	E	C	T	D	N	U	K	T
E	R	E	B	A	R	C	N	O	E	M	N	S	L	V	U	R	V	I	C	K	N	K	K	D	X	I	V	C	X
U	R	L	K	G	P	C	K	O	S	A	S	U	W	O	Z	N	W	O	K	C	J	U	Q	V	G	A	S	K	K
J	D	D	O	R	A	C	V	K	R	J	R	B	P	B	A	H	M	B	G	X	G	G	S	S	J	R	S	I	D
O	B	S	W	D	N	C	S	C	V	X	V	E	M	S	E	P	E	D	Z	M	H	R	G	L	L	T	J	U	E
Y	R	V	F	T	L	F	G	E	Q	J	V	V	Y	W	A	R	B	J	J	G	P	O	S	L	K	G	O	L	A
N	R	S	O	I	A	C	T	T	V	U	S	A	B	C	T	J	P	U	A	F	I	M	F	N	F	E	U	U	N
J	C	R	P	Z	N	E	A	C	G	D	E	U	T	H	T	A	K	L	L	B	R	Y	Q	H	P	X	V	O	E
F	E	C	E	B	N	R	P	T	T	D	X	O	A	B	L	O	H	E	R	L	J	W	T	M	T	C	I	Q	X
K	W	P	R	F	P	E	N	R	E	V	R	P	L	D	E	B	X	K	W	U	D	I	O	J	S	A	S	G	A
S	E	Q	W	S	W	V	N	Y	W	H	H	N	L	P	O	M	R	D	L	L	C	O	V	Q	K	V	W	X	Q
Z	U	H	A	K	D	Y	F	L	D	Q	I	Z	F	U	G	J	Z	V	B	I	D	O	Z	S	B	A	W	V	Y
L	A	E	S	P	I	H	C	O	A	N	I	N	O	I	T	C	U	R	T	S	N	O	C	E	E	T	L	W	R
J	K	R	T	Z	G	E	C	K	S	A	H	D	X	I	B	V	X	H	H	B	R	T	Q	X	R	O	X	I	P
E	T	J	F	J	T	I	Z	Q	M	S	X	Q	V	L	W	R	B	Q	L	K	Q	B	G	L	P	R	E	C	A
L	L	C	M	F	F	U	Q	F	A	X	X	U	J	C	C	E	S	X	K	F	T	T	R	E	V	L	U	C	V
H	V	C	Q	V	K	N	I	L	V	U	E	F	T	V	B	Z	O	E	V	H	T	F	B	A	Z	W	L	B	E
I	Q	B	I	T	X	X	H	D	U	L	L	O	Y	C	M	Q	P	Y	U	H	W	L	P	I	P	Y	H	Y	R
I	P	C	N	H	S	E	F	Z	E	M	U	D	L	U	N	C	A	Q	J	N	F	X	J	M	V	Y	Y	Y	Z
D	K	K	F	V	E	O	V	T	A	P	S	D	A	O	N	B	O	L	I	H	Y	F	S	I	S	P	V	Q	E
R	E	D	A	R	G	V	G	W	R	V	J	S	X	B	F	U	C	H	E	F	B	C	Z	E	F	W	D	O	X

WORD BANK:

Washington
Construction
Bridge
Tunnel
Road
Viaduct
Highway

Culvert
Maintenance
Ferry
Architect
Chipseal
Vehicle
Tolling

Bus
Train
Bicycle
Sidewalk
Roundabout
Cone
Crane

Snowplow
Engineer
Concrete
Rebar
Asphalt
Sign
Bertha

Bulldozer
Forklift
Excavator
Truck
Paver
Compactor
Grader

What other words can you find?

Mad Libs

Riding the ferry

Here in Washington our roads aren't only on the ground, we also have a marine highway, that's the paths ferries take across _____.
location

The ferries can quickly transport you from Seattle to the Kitsap Peninsula or from _____ to the San Juan Islands. There are many _____ places you can visit by taking the ferry.
location adjective

You can drive or _____ onto the ferry. Sometimes ferries have galleys where you can buy _____.
verb noun

There is a viewing deck, where if you are lucky you may see animals like _____ and _____.
noun noun

Sometimes, there are even _____ parties on board. One time, Blitz from the Seahawks, rode the ferry with us and he _____ while we crossed the Puget Sound.
adjective verb, past tense

Taking a trip

On Sunday, my family _____ to _____. The trip was very _____ and we saw many _____.
verb, past tense place adjective plural nouns

While in _____ we rented _____ and visited the park and went along the trail and saw _____ it was _____. We ate some _____ for lunch and went shopping for _____.
place noun adjective adjective noun noun

There were all kinds of places to visit and things to do. Next time we're planning to travel to _____ by _____.
place method of travel

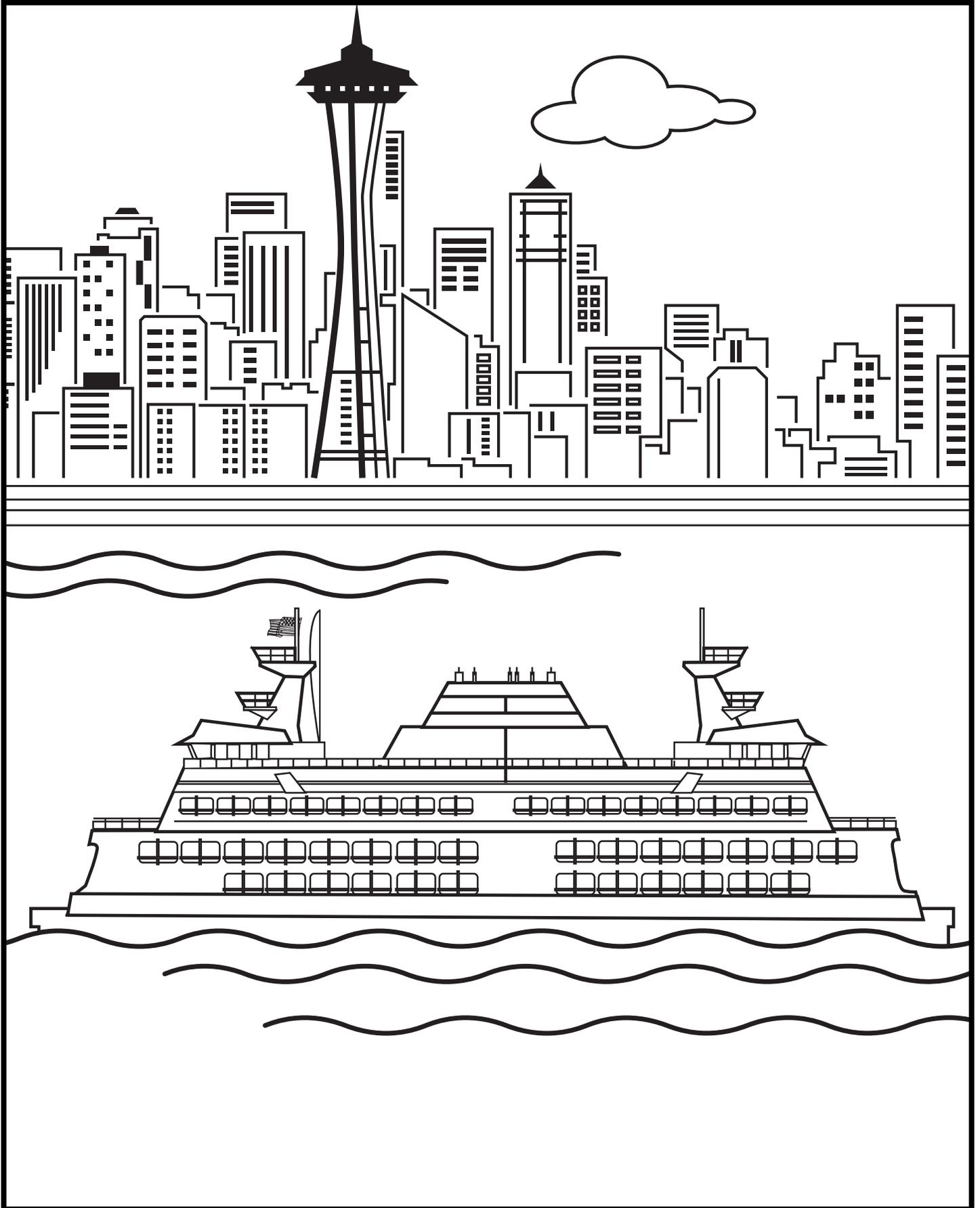
A day at the creek

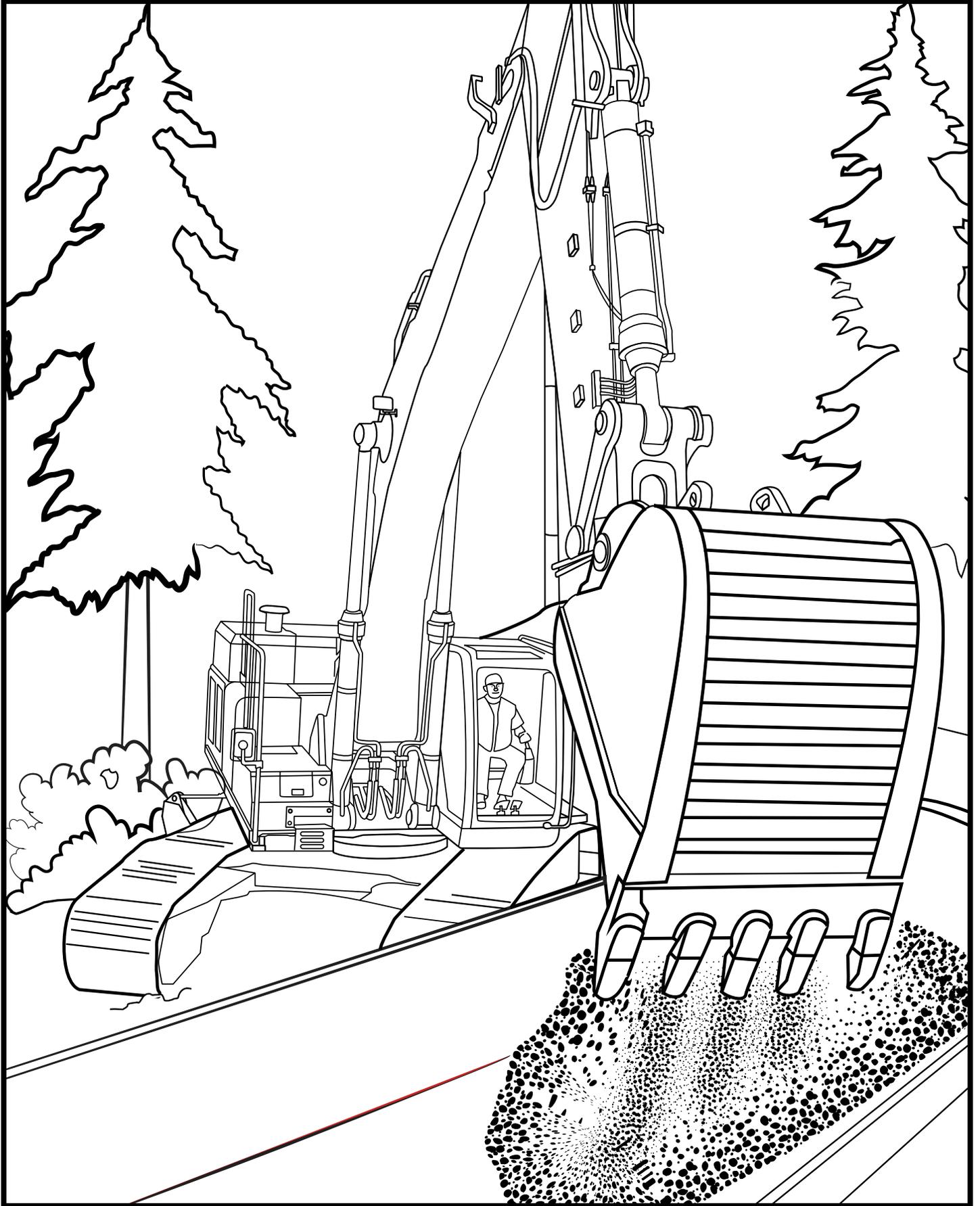
Today I visited Wildcat Creek and saw a construction crew working on a culvert to allow fish to more _____ swim through the creek.
adverb

The crews were removing the existing culvert and replacing it with a more natural environment. The new culvert has _____ rocks, _____ plants, and a more gentle slope so it's easier for fish to pass through it.
adjective adjective

Before work began people moved all kinds of creatures from the work area including _____, _____ and _____.
noun noun noun











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