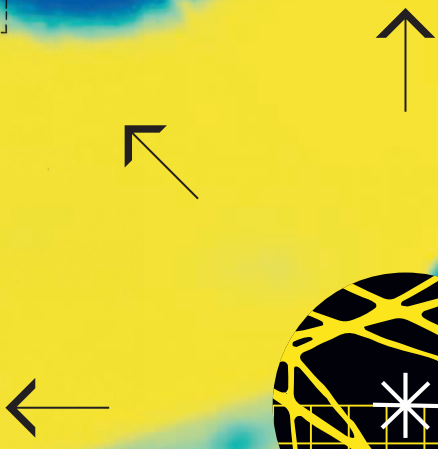
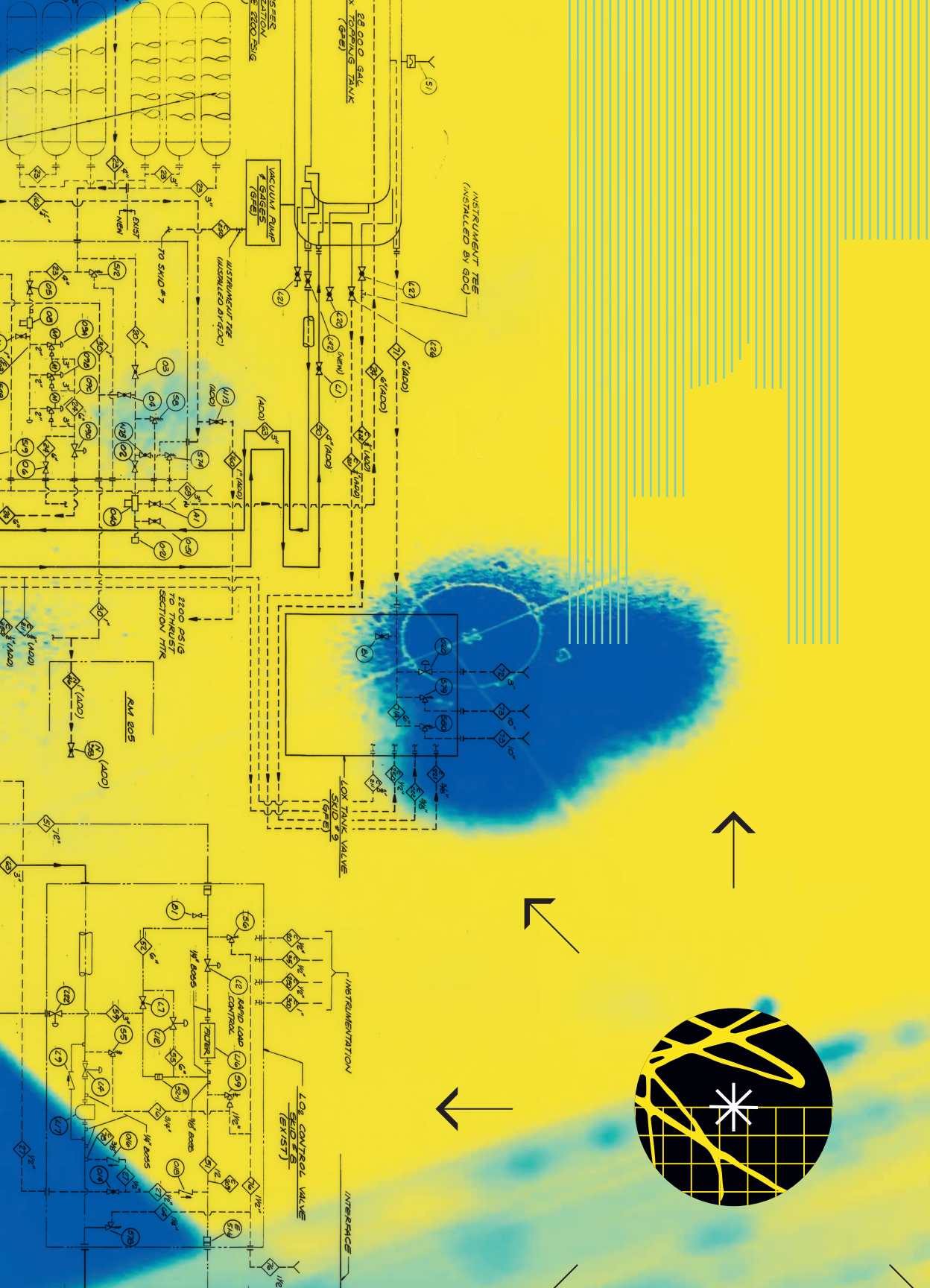




The Beginning of Anything

Engineering at Alberta





Let's Start at the Beginning— Where Anything Is Possible.

We live in a world where everyone tends to honour the results and focus on the successes. The spotlight always shines on the accomplishments, when all of the hard work is said and done.

Here, we take the time to honour the process and focus on the first steps. This is a place that uncovers the unknown. Where ideas take the stage and possibility runs the show. This is where you'll find more when you get lost. We train people to embrace curiosity, providing state-of-the-art facilities, award-winning faculty and support that enhances exploration.

→ Engineering sets the stage for anything.
And the beginning of anything begins here.





An Everlasting Legacy



Our reputation is built by the professors, students and alumni who have played instrumental roles in some of the most important engineering discoveries of our time.

SONAR DEVELOPMENT DURING WWI • LASER TREATMENT THAT PROMISES TO MANAGE A LEADING CAUSE OF BLINDNESS • EXTRACTING BITUMEN FROM OIL SANDS—PAVING THE WAY FOR THE GROWTH OF CANADA'S ENERGY INDUSTRY • CRYOPRESERVATION OF HUMAN TISSUE FOR TRANSPLANTS • FOOD PACKAGING THAT IDENTIFIES THE PRESENCE OF DANGEROUS PATHOGENS • HANDHELD DEVICE THAT DETECTS THE TYPE OF INFECTION IN A PATIENT IMMEDIATELY—ELIMINATING UNNECESSARY ANTIBIOTIC USE • LEADING THE PURSUIT TO ENABLE TRULY SUSTAINABLE FUSION ENERGY WITH LASERS

We continue to drive progress with purpose.
How will you continue the legacy?



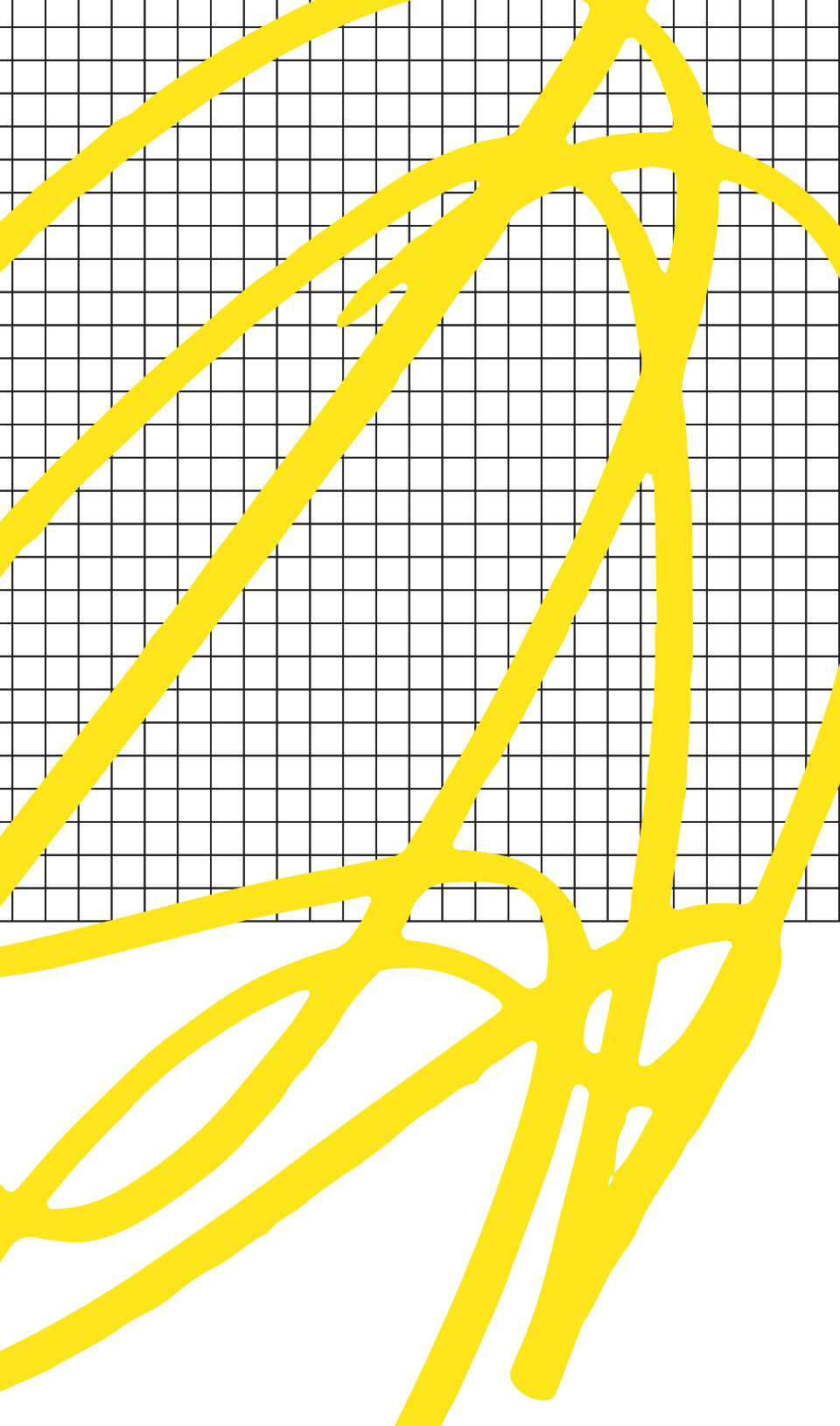
*Banded at the
Beginning*



Teamwork works when there is trust. Trust is developed over time. We give our students the time and collaborative environments to build something stronger than steel—they build an unbreakable bond.

First-year students are put into groups of 30 to form cohorts. They share lectures, labs and seminars together, creating a community.





***We Aren't Constrained
by Standards***



Public health experts say another global flu pandemic is imminent. In a best-case scenario, estimates indicate up to 360 million deaths worldwide.



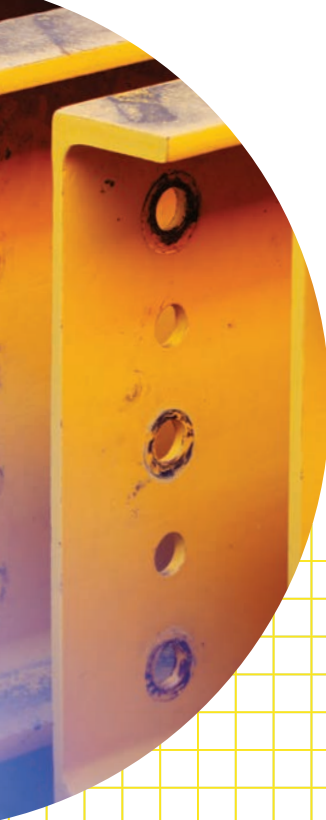
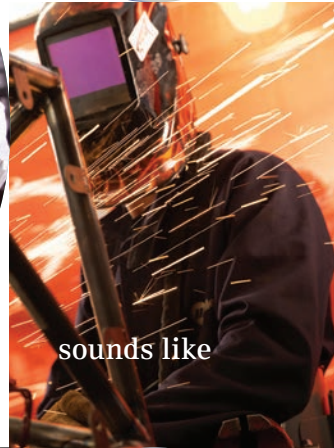
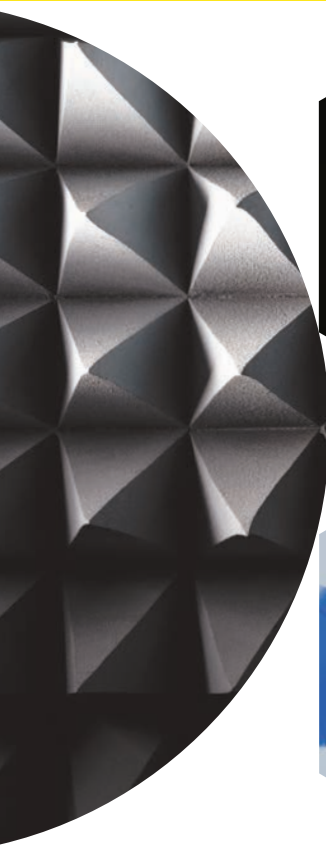
But we know anything is possible.

***Because We Set
New Ones Every Day***

We are redefining how vaccines are taken and transported, because needles are complicated and refrigeration is inaccessible.

And, because it's what the world needs now.

→ THIS IS WHAT ENGINEERING LOOKS LIKE,



It only seems logical



*Because No
One Else Has
Ever Done It.*



Engineering propels the world forward.

It awakens new ideas
and keeps us up at night.

WE DON'T
SIMPLY LOOK UP
AND OBSERVE
THE STARS—
WE FLOAT
BESIDE THEM.

+X
-X



Alberta's first satellite was willed into orbit May 26, 2017, by a group of undergrad students.

REQUIREMENT QB50-SYS-1.1.2.

AT THE GEOMETRIC CENTER

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DRAWING INTERPRETATION: TBD

DRAWING APPROVALS		DIMENSIONS ARE IN MM	
SIGNATURE	DATE	TOLERANCES UNLESS SPECIFIED:	
C. ROBSON	JULY 16, 2015	X = ± 0.5	XX = ± 0.3
C. ROBSON	2016/05/15	XXX = ± 0.05	ANGULAR: ± 0.5°
SURFACE FINISH		REMOVED SURFACE FINISH UNLESS NOTED	
Ra		SHARP EDGES: R2 MAX	
PROJECT: ESCALETA SATELLITE		MATERIAL: ALUMINUM	
MATERIAL:		HILLIUS: R.10 MAX	

SCALE: 1:2

DRAWING NUMBER: PX1-MC-000

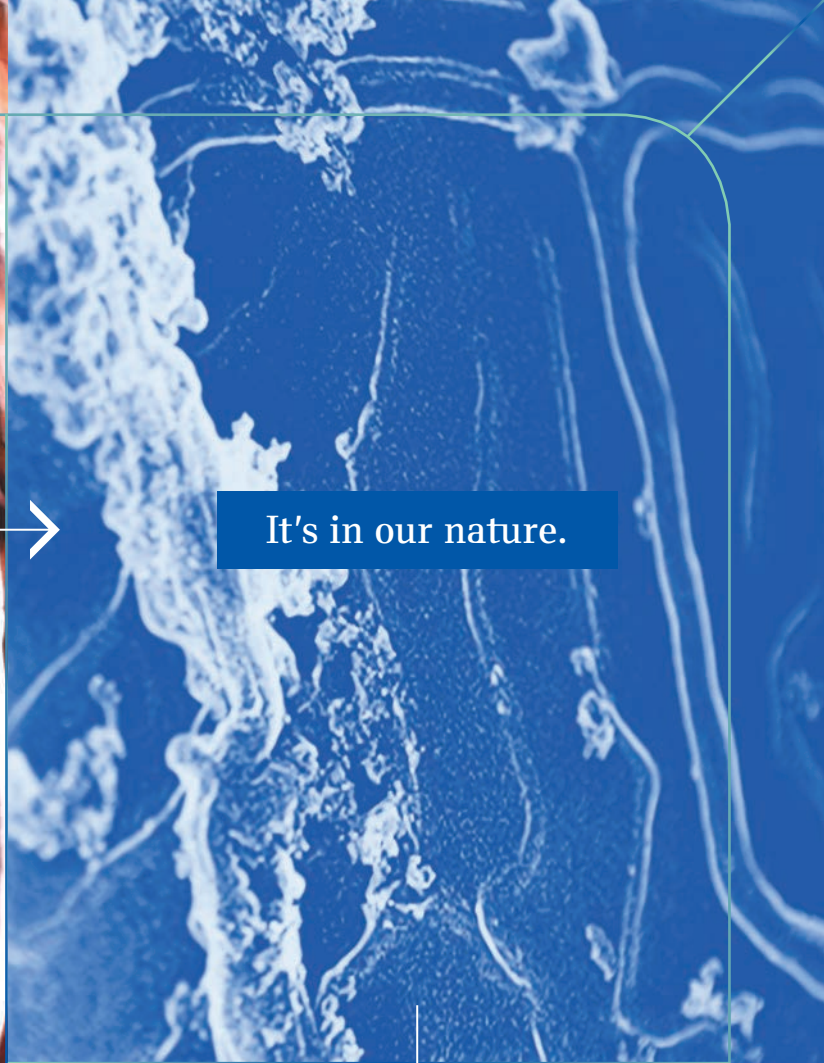
REV: --002

SHEET 1 OF 12

DISCOVERY



It's in our blood.



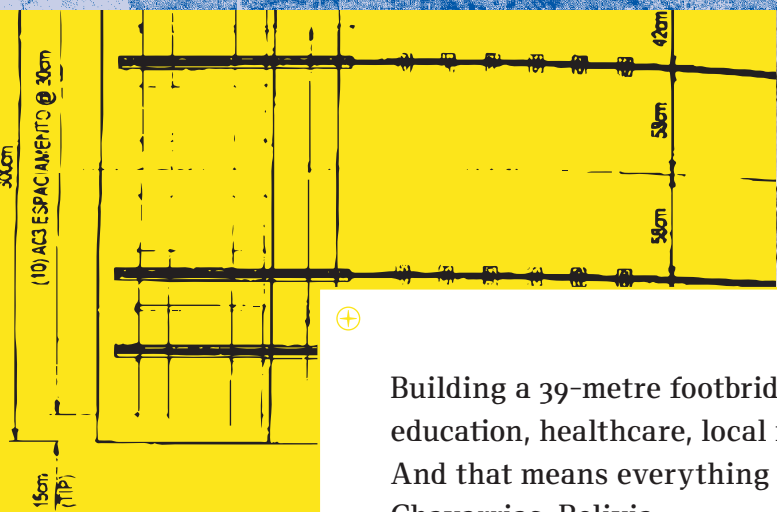
It's in our nature.



It's in our spirit.

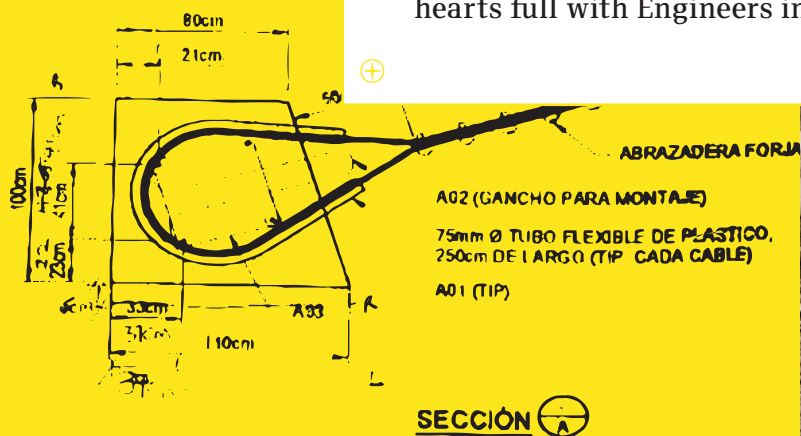


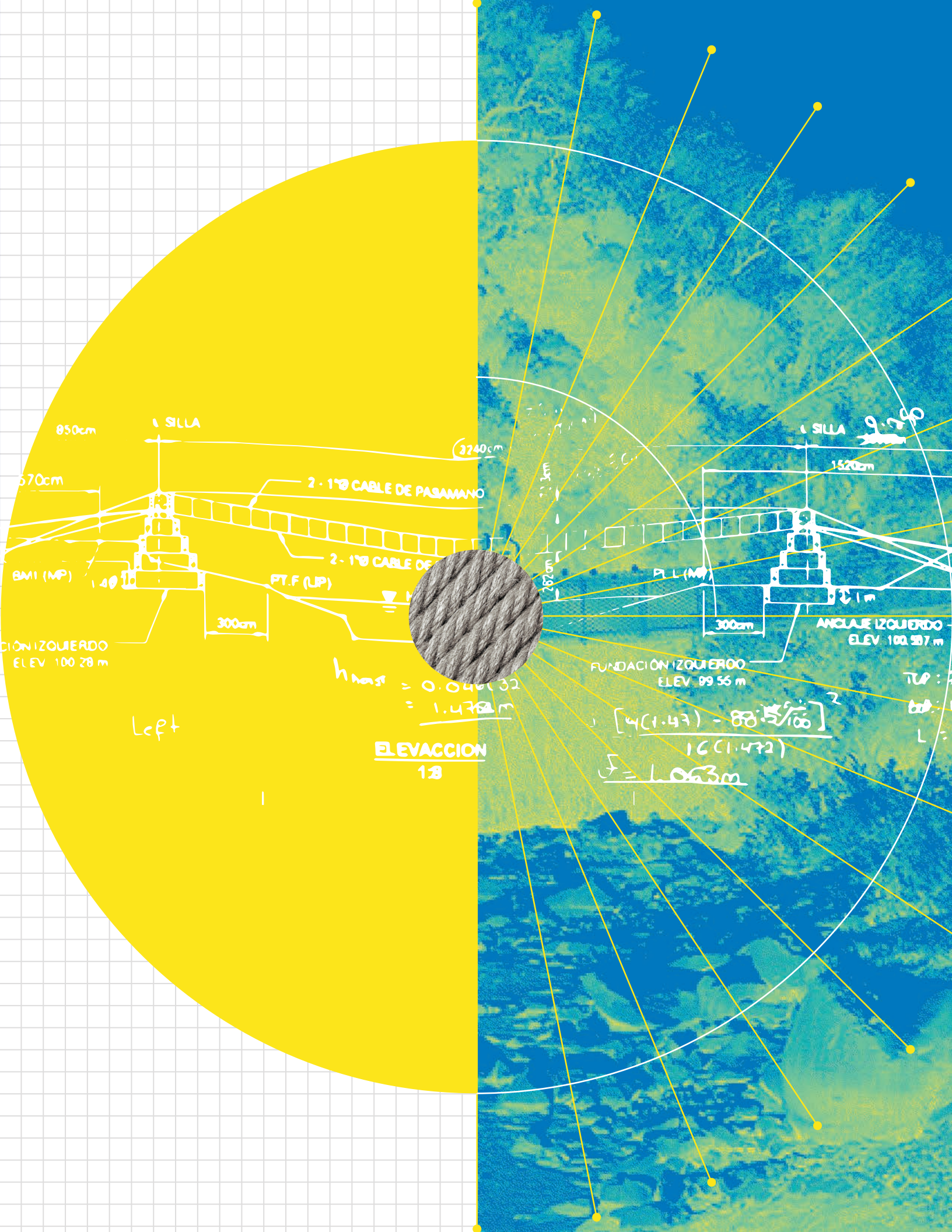
**We Change Lives
in Our Spare Time**



Building a 39-metre footbridge means access to education, healthcare, local markets and transportation. And that means everything to the people living in Chavarrias, Bolivia.

Undergrad students get their hands dirty and their hearts full with Engineers in Action.





850cm

1 SILLA

570cm

2 - 1 1/8 CABLE DE PASAMANO

2 - 1 1/8 CABLE DE

BMI (MP)

140

PT.F (LP)

300cm

FUNDACION IZQUIERDO
ELEV. 100.28 m

Left

$$h_{max} = 0.046(32) = 1.4752 \text{ m}$$

ELEVACION
1.8

2240cm

21.3m

282cm

PL (MP)

300cm

FUNDACION IZQUIERDO
ELEV. 99.56 m

$$L = \frac{[4(1.47) - 88 \cdot \frac{15}{100}]^2}{16(1.472)}$$

$$L = 1.063 \text{ m}$$

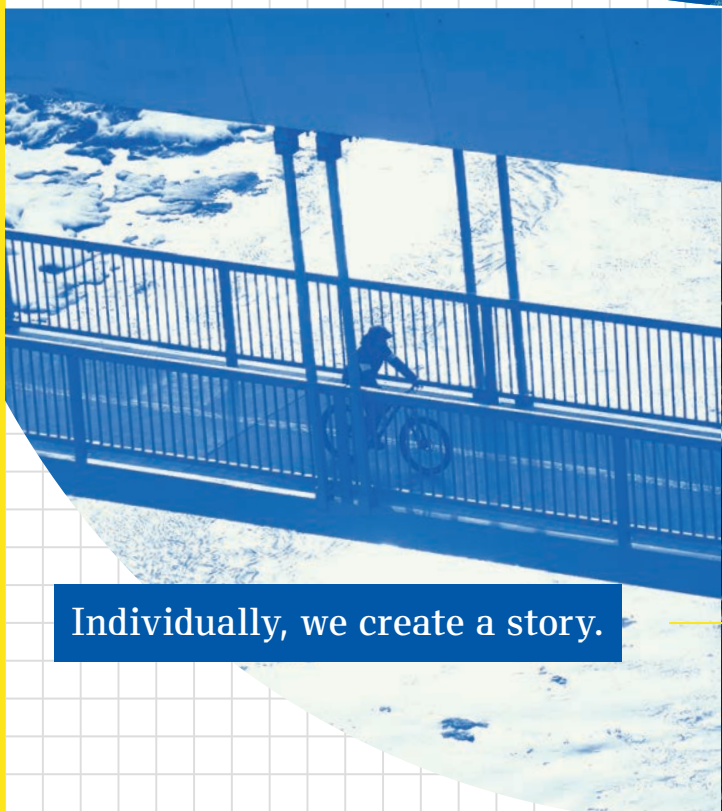
1 SILLA

1520cm

ANCLAJE IZQUIERDO
ELEV. 100.97 m

TUP:
tbl:
L:

Lifting the Whole People



Individually, we create a story.



Collectively, we create history.

Your Beginning Starts Here



EngineeringAtAlberta.ca

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Toll-free: 1-800-407-8354

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Curious Transluents, Clear, 43 gsm
Mohawk Via Satin, Pure White, 104 gsm