ORGANICS PROCESSING FACILITY: PLANNING AND PREPARATION



October 7, 2026

OVERVIEW OF STEPS



NEEDS ANALYSIS



DATA COLLECTION



COMMUNICATION



PROCUREMENT



CONSTRUCTION



COMMISSIONING



OPERATING

NEEDS ANALYSIS

Desired change

Looking for an outcome

Local industry or practices can drive need for change

Community goals

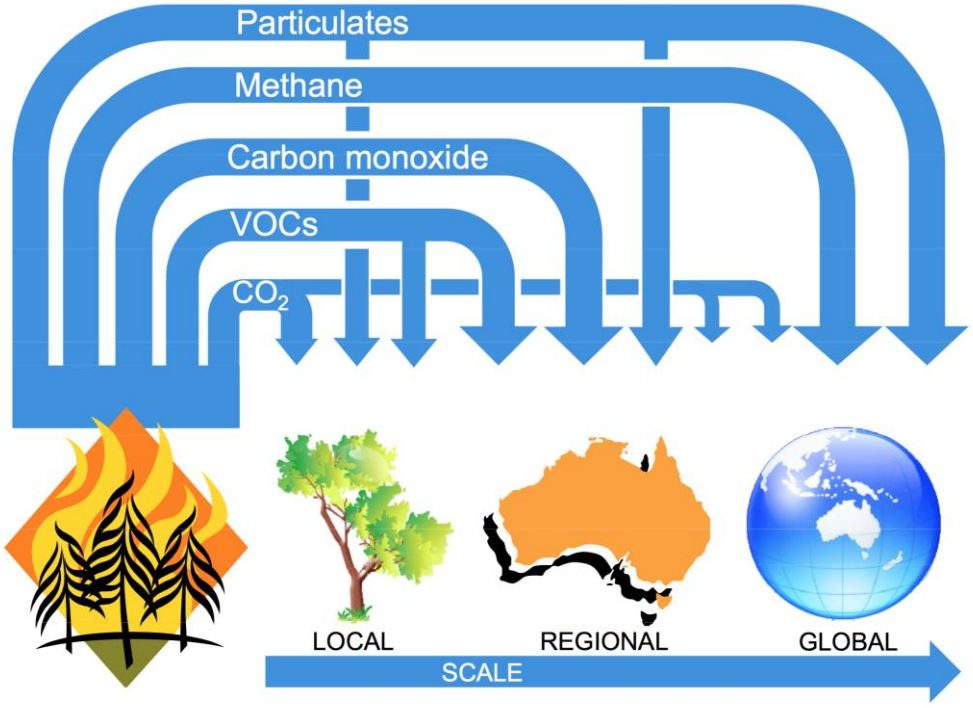
Collaborating with community groups and members; decisions are made that lay out a course of action

Targets can be set internally, through regulation or good old peer pressure

Service provider

A business sets up to solve a problem that no one knew existed

Build it and they will come



DATA COLLECTION



Waste generation at the household level

Surveying residents re: garbage collection

Continued measurement of recycled materials and reporting statistics

Home energy assessments

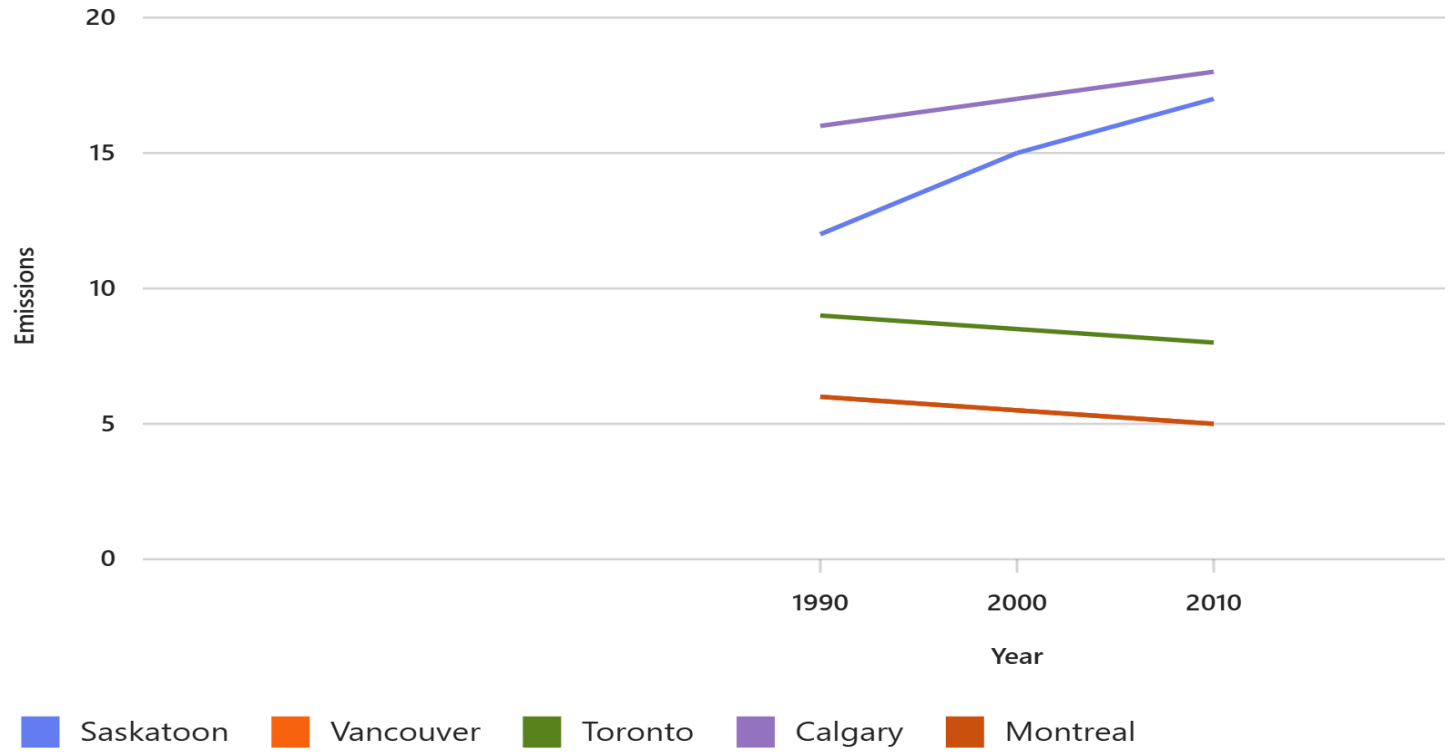
Measuring to meet Kyoto targets

May have backfired slightly

Impacts of HHW, energy consumption, agricultural practices

COMMUNICATION

- Lay out the problem(s) faced by the community
- Show what work is being done to determine solutions
- Illustrate the role of all the stakeholders
- Incentivize change
- Compare across Canadian cities



LONG STORY- VERY SHORT



- 2000 the City asks SWRC to help divert yard waste with additional funding and a site
- Growth was ‘organic’ from 10’s of tonnes to hundreds of tonnes estimated
- Set up first processing yard in 2006 with bucket turned windrows
- Continued measuring impact, even with very rough estimates
- Soon became too much to handle as a ‘side project’ of the landfill
- Managing turned windrows
- >800,000 vehicle visits in 20 years
- Peaked at about 20,000 t estimated in one season and 60,000 visits

~~OVERVIEW~~ REVIEW OF STEPS

NEEDS ANALYSIS

DATA COLLECTION

COMMUNICATION

PROCUREMENT

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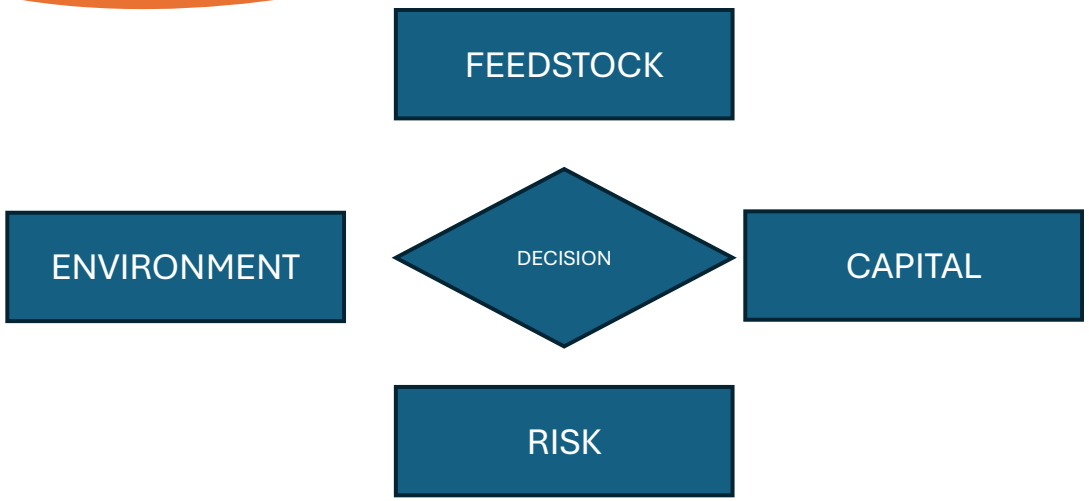
COMMISSIONING





OPERATING

DATA COLLECTION



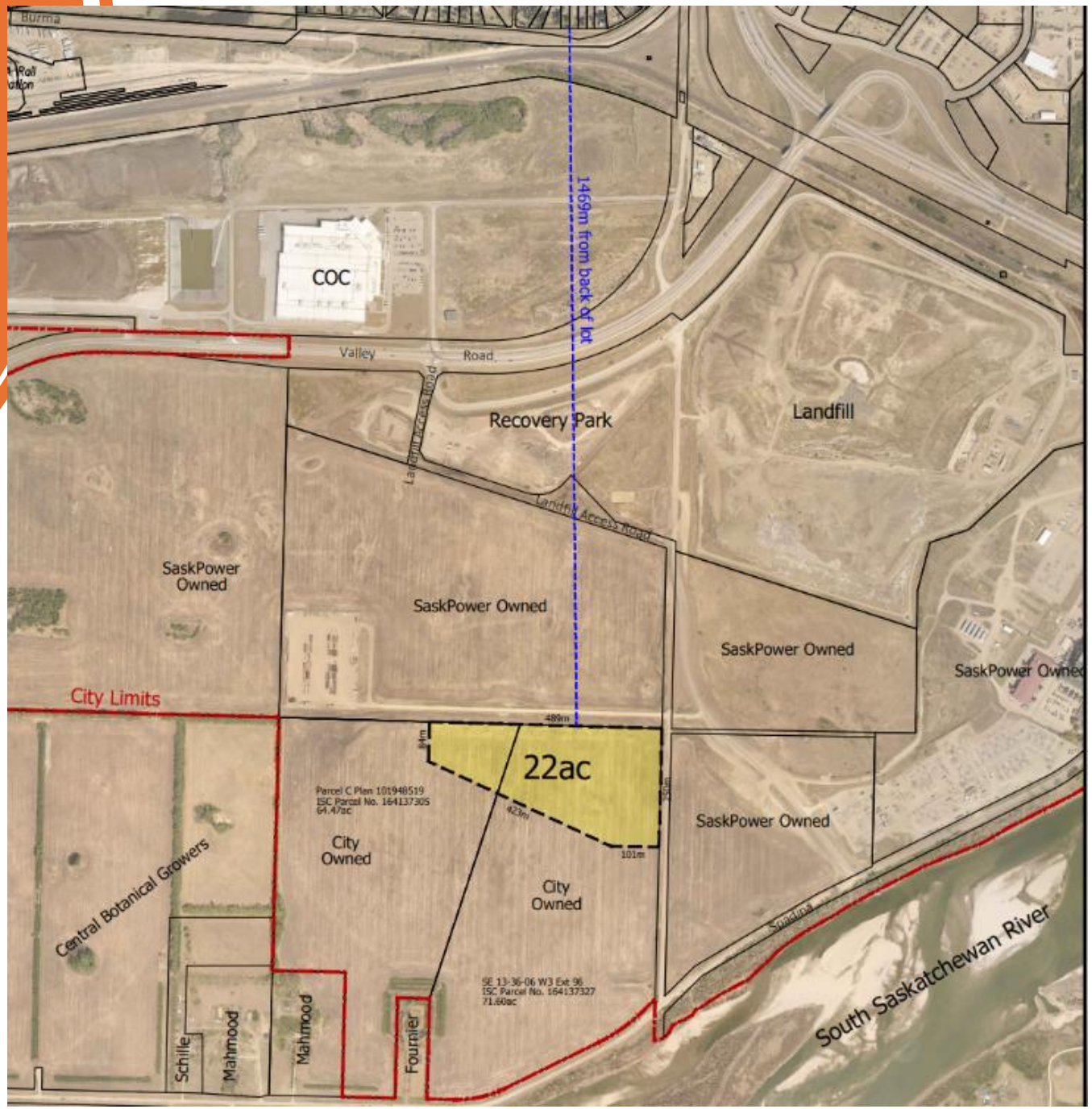
- Feedstock
  - Quantity
  - Quality
  - Future sources
- Siting
  - Options
  - Regulatory requirements
  - Environmental protection
  - Location meeting needs
- Funding mechanisms
  - Capital availability
  - Grants
  - Operating
  - Revenue potential
- Processing methodology depends on
  - Feedstock
  - Environmental protection
  - Capital available
  - Acceptable risk (ROI, odour, community approval)

COMMUNICATION

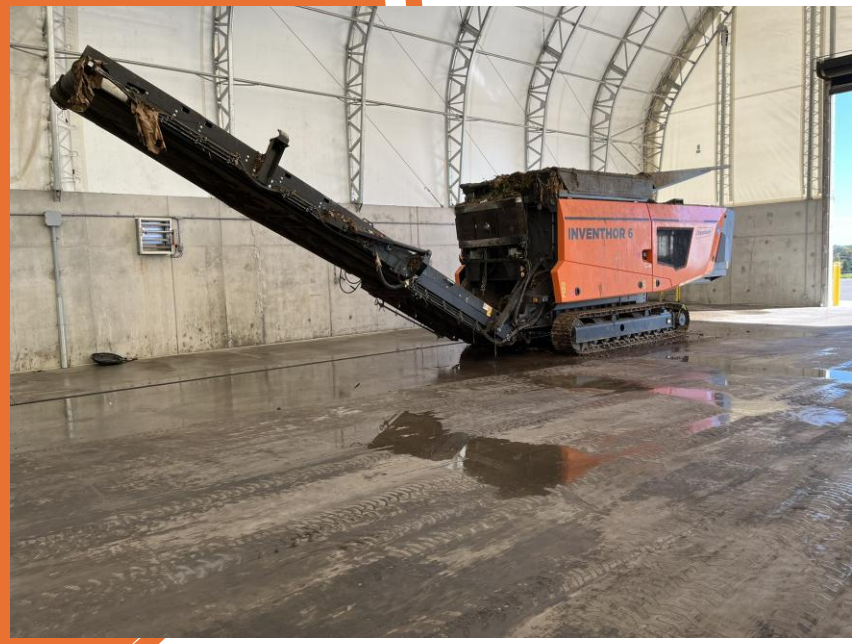


- Continuous flow of information to leadership, council and back to planning group
- Public engagement early in design and planning stages
  - Know where and who neighbours are now and into the future
- Design team and Project Manager working hand in glove
  - Identify goals and targets
  - Reporting and feedback
  - Reviewing every piece along the way
  - Look for outside reviewers to ensure consistency with working projects
- Involve all stakeholders at the earliest stages
- Be prepared for the tough questions that will come up
- Having a rapport with your regulators is critical to success
  - Learn who regulates you and what they regulate
  - There may be several with jurisdiction

SITING

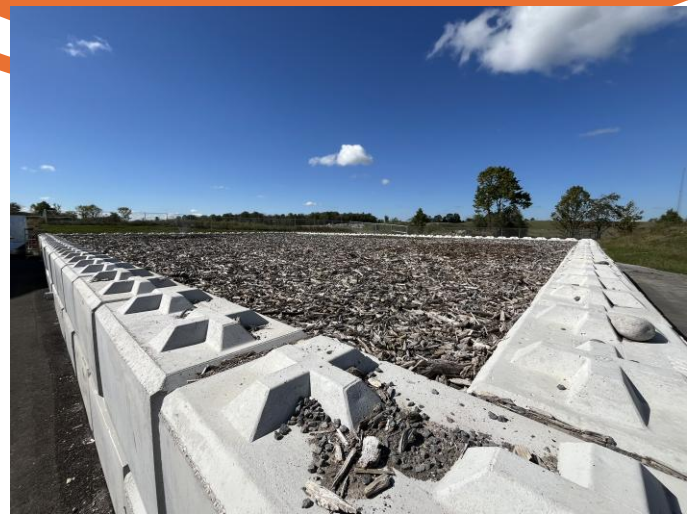

Burma
COC
1469m from back of lot
Valley
Road
Recovery Park
Landfill
Landfill Access Road
SaskPower Owned
SaskPower Owned
SaskPower Owned
SaskPower Owned
City Limits
22ac
Parcel C Plan 101948519
ISC Parcel No. 164137305
64.4/ac
City Owned
City Owned
SaskPower Owned
Central Botanical Growers
Schille
Mahmood
Mahmood
Fournier
SE 13-36-06 W3 Ext 96
ISC Parcel No. 164137327
71.60ac
South Saskatchewan River

EXAMPLES









EXAMPLES







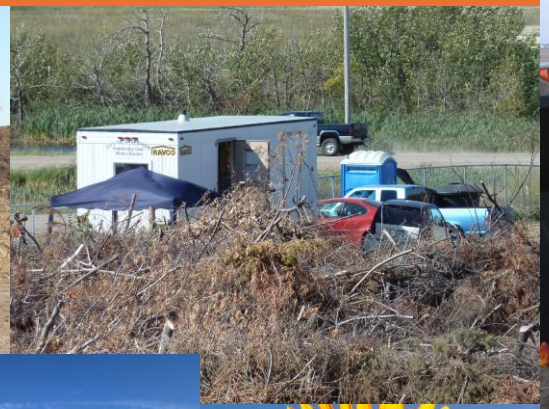


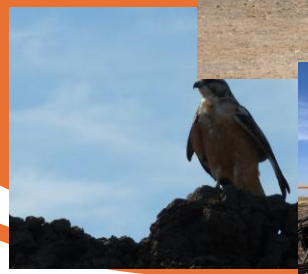
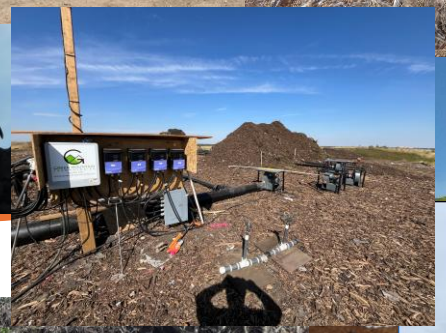
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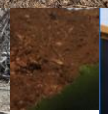








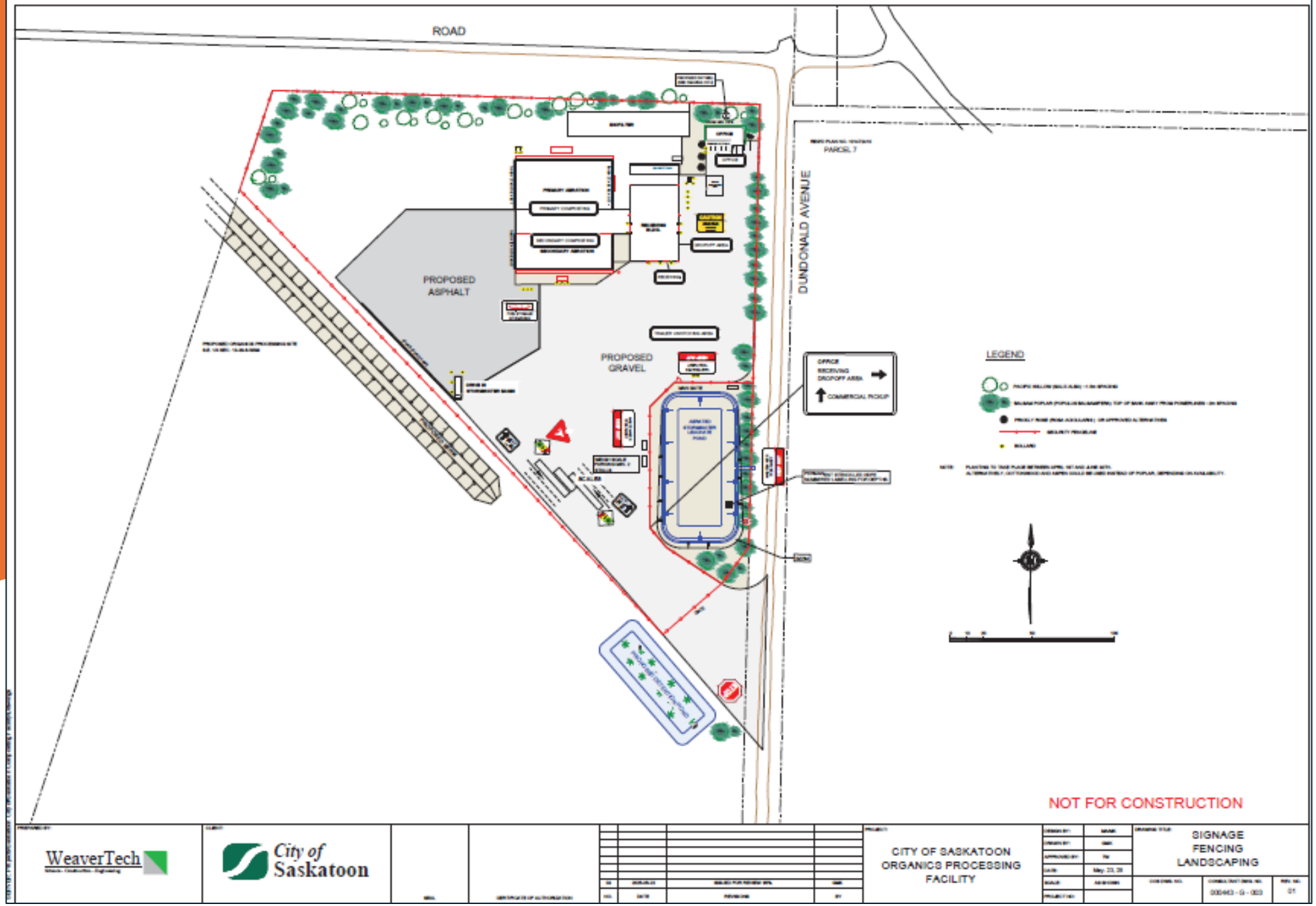





PROCUREMENT

- Every component or facet of your project will need procurement, and your workgroup will have its own way to do things.
  - Consultant/Advisor
  - Designers
  - Procurement Team
  - Technology vendor
  - Equipment
  - Building
  - Utilities
  - Constructor and Trades
  - QA/QC
  - Operations Labour and all the accoutrements

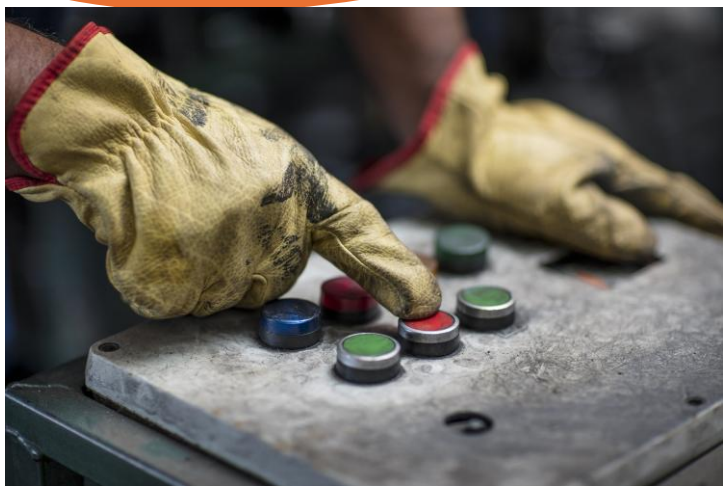
DESIGN


ROAD
DUNDONALD AVENUE
PARCEL 7
PROPOSED ASPHALT
PROPOSED GRAVEL
OFFICE
RECEIVING
DROPOFF AREA
COMMERCIAL PICKUP
LEGEND
NOT FOR CONSTRUCTION
WeaverTech
City of Saskatoon
CITY OF SASKATOON
ORGANICS PROCESSING
FACILITY
SIGNAGE
FENCING
LANDSCAPING

CONSTRUCTION

- Roles and responsibilities
  - Permitting for construction
  - Utility installation and crossings
  - Safety standards
  - Who is acting as ‘Prime’ contractor
    - This is important to flesh out
    - Like the immortals in *Highlander,* there can be only one
  - There may be several contracts or just one for construction through commissioning
    - There are endless models
    - Careful with Jack of All Trades contractors
  - Oversight should include provisions for quality assurance and quality control
  - Bonus for on time and meeting budget or withholding payment for missing targets
  - Basis for payment can follow successful completion of key stages or through a progress payment process

COMMISSIONING



- At this point, the project is built
- Needs to be turned on and thoroughly tested
  - Test limits of equipment and make sure everything fits
  - Check that heavy equipment can get to where it will be needed
  - Check all surface drainage and buried utilities
  - Ensure all safeguards are appropriate for each task
  - Give it the time needed to ensure
- Finalize operations manual, emergency response manual, training manual,
- Who will learn everything about the site operation? One person? A team?
- Will the thing do what you built it to do?

OPERATION

- Develop a routine for all personnel
- Every operation has minor adjustments such as recipes, the weather, worker illness
- The plant should function for many years of service life but really the work has just begun
- Scheduled maintenance and inspections
- Reporting
- Marketing
- Testing
- All things that a good operation can look forward to…

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