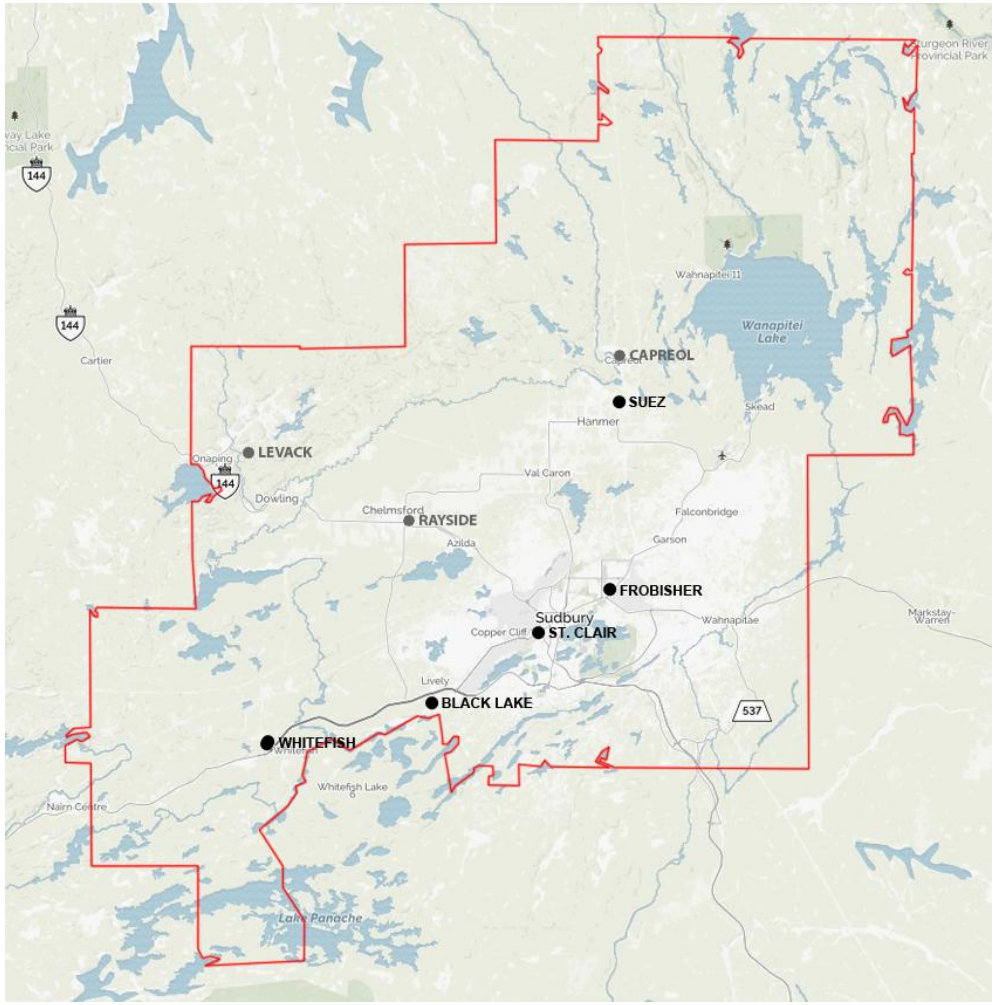


city of greater sudbury depot master plan

Sudbury Greater Grand | 3RDLINE.STUDIO | Stirling Rothesay CONSULTING, INC.

background

- This Depot Master Plan is the first detailed review of the depots since amalgamation.
- Builds on the 2015 Facility Rationalization Study.
- Master Plan focuses on renewing existing infrastructure and incorporating best practices.

scope

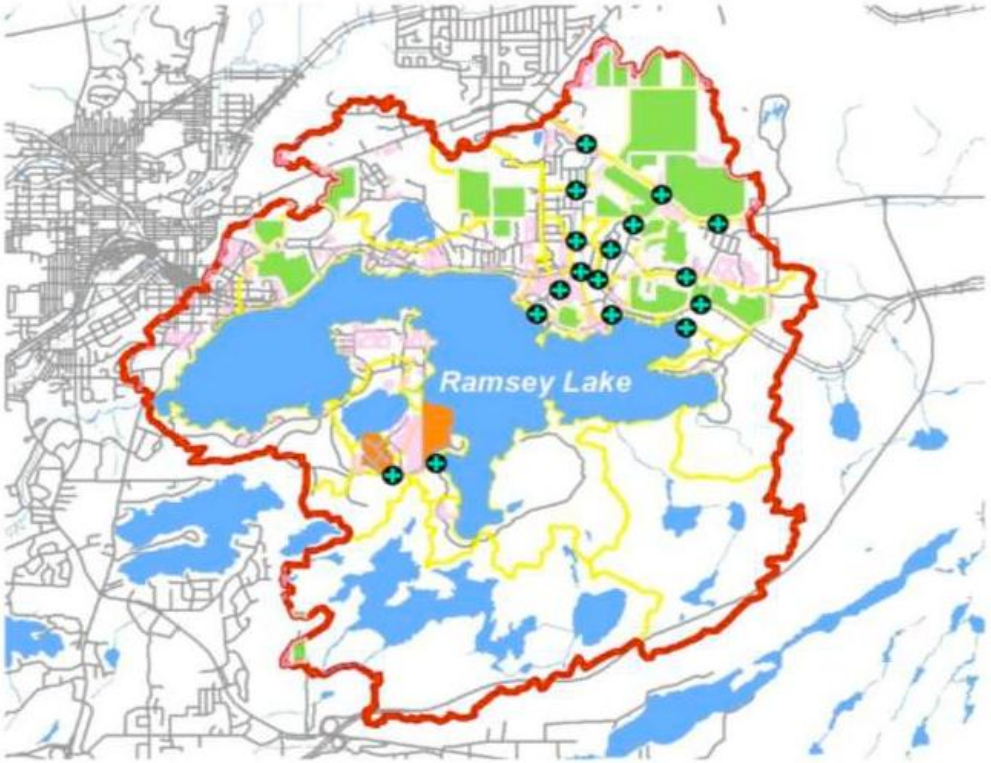
- Improves works environments for **450** staff.
- Renews **327,400 gsf of building** + **47 acres of site.**
- 3 phases; 1-**protect**, 2-**renew**, 3-**optimize**

outcome

renewed workplace (better tools) → *increased productivity* → **improved roads + infrastructure**

key concerns

- Our commitment to Provincial Source Water Protection.



city of greater sudbury depot master plan

Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.

key concerns

- Existing spaces do not support best practices.

city of greater sudbury depot master plan

Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.

key concerns

- Facilities are inadequately sized.

too few lockers

not enough showers

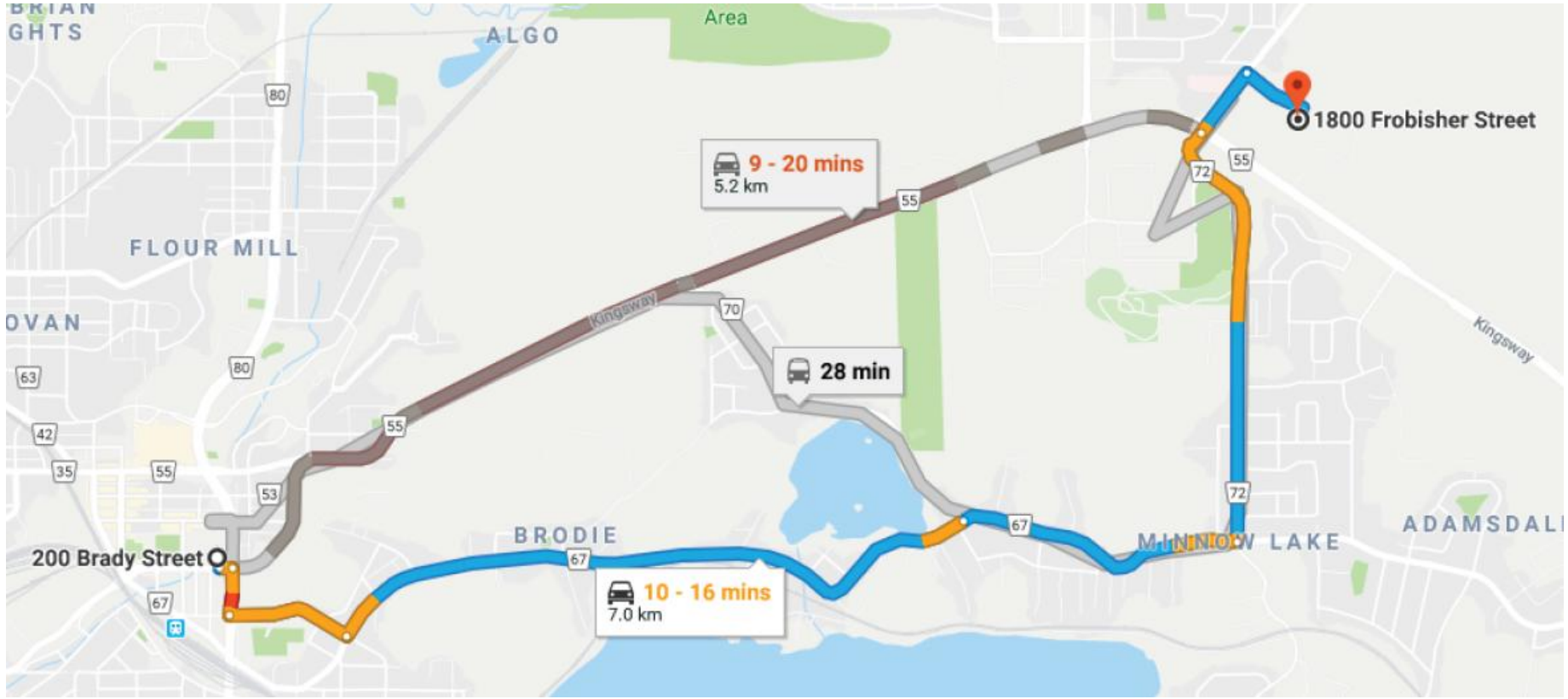
no headroom

city of greater sudbury depot master plan

Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.

key concerns

- Employees are located across the City.



city of greater sudbury depot master plan

key concerns

- Outdoor storage reduces productivity and shortens lifecycle of vehicles.
- Vehicular circulation routes are hazardous and not secure.

salt/sand domes

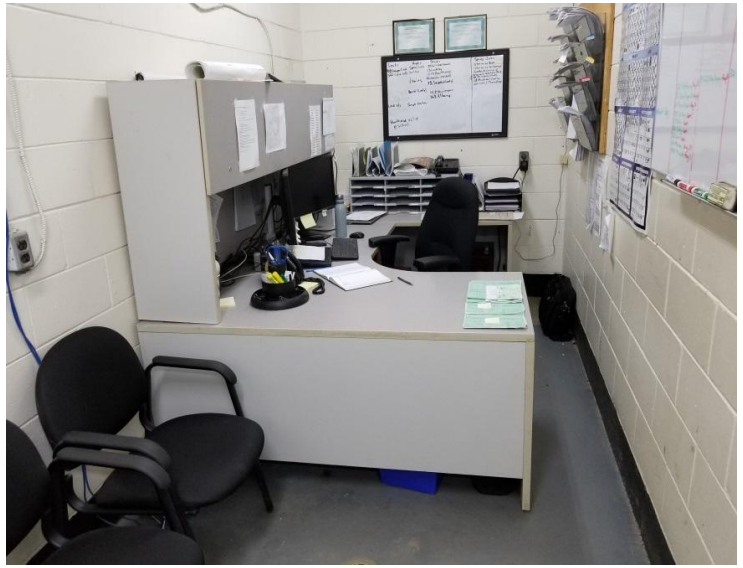
- Salt is currently stored indoors with sand and loading outside.
- Domes have reached the end of their life cycle.
- Proposing indoor storage and loading.

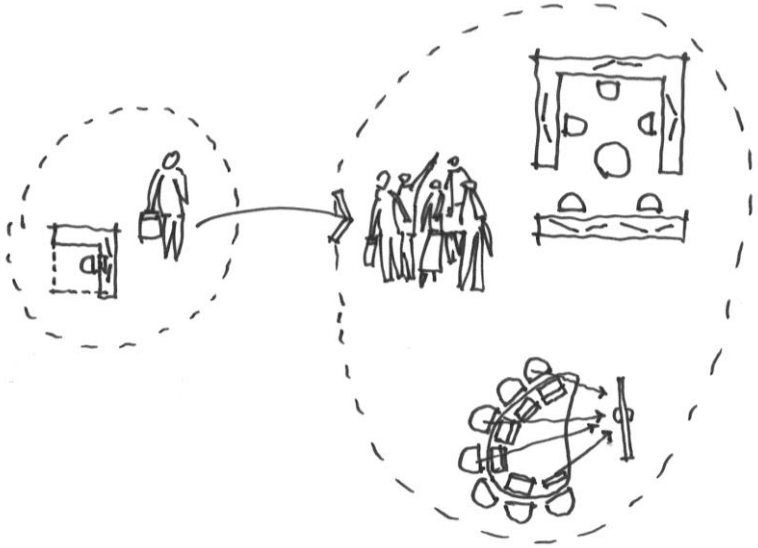
city of greater sudbury depot master plan

Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.

office and admin spaces

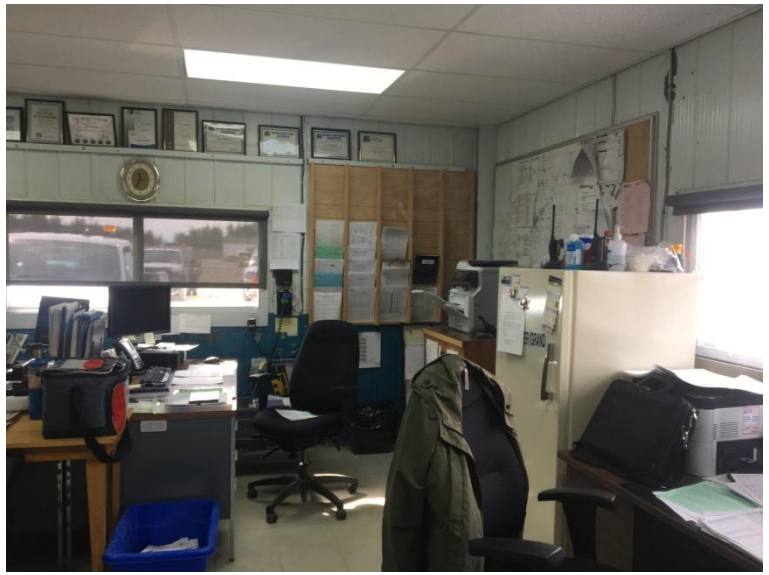
- Staff located across City.
- Focusing on collaboration through culture and governance, workplace design, and technology.
- Benefits include time-saving, productivity, quality of work, innovation, employee engagement, and reduced turnover.

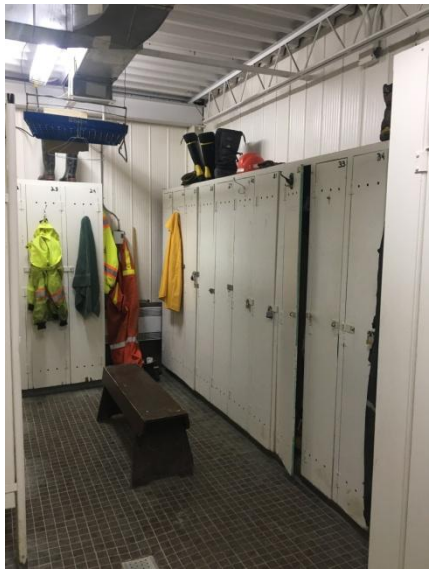


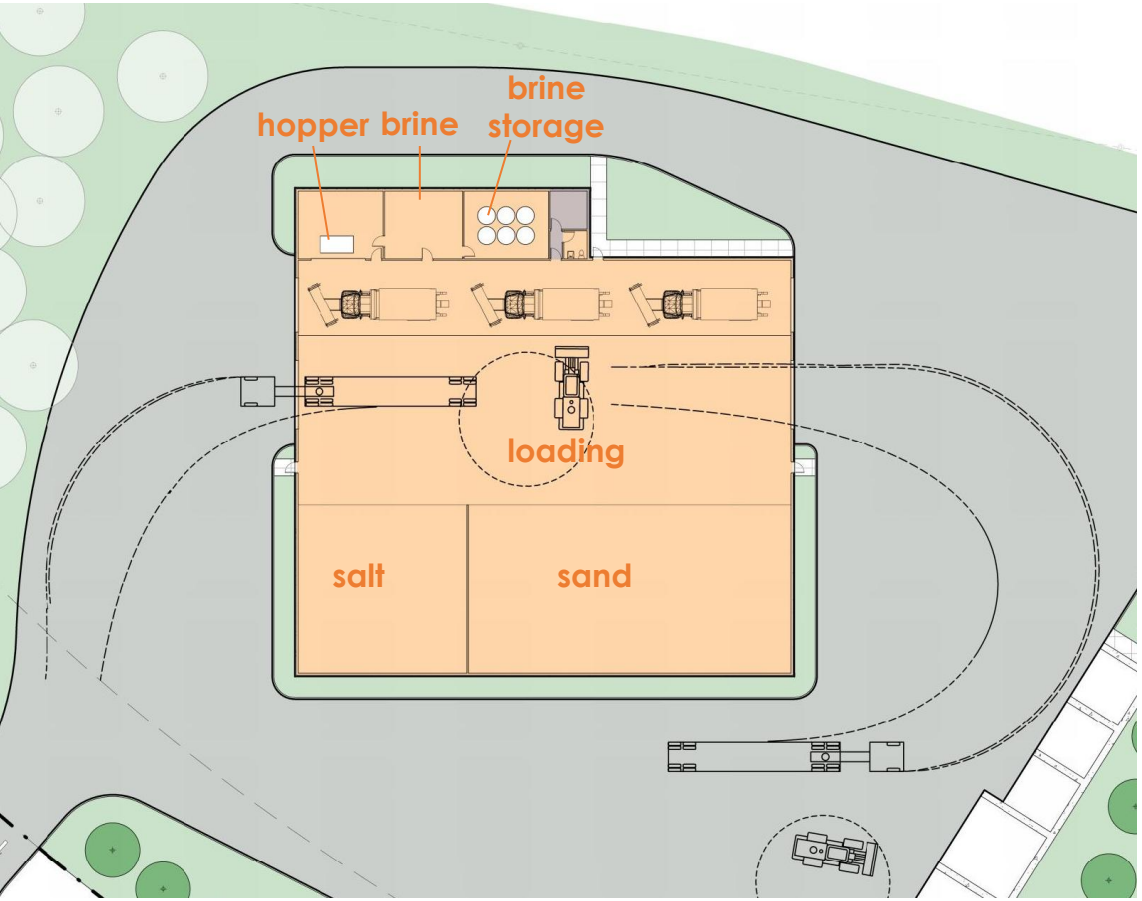


depots

- Current facilities are inadequately sized.
- Aged facilities are at the end of their life cycle.
- Proposed work reduces office space and increases the shop amenities area.







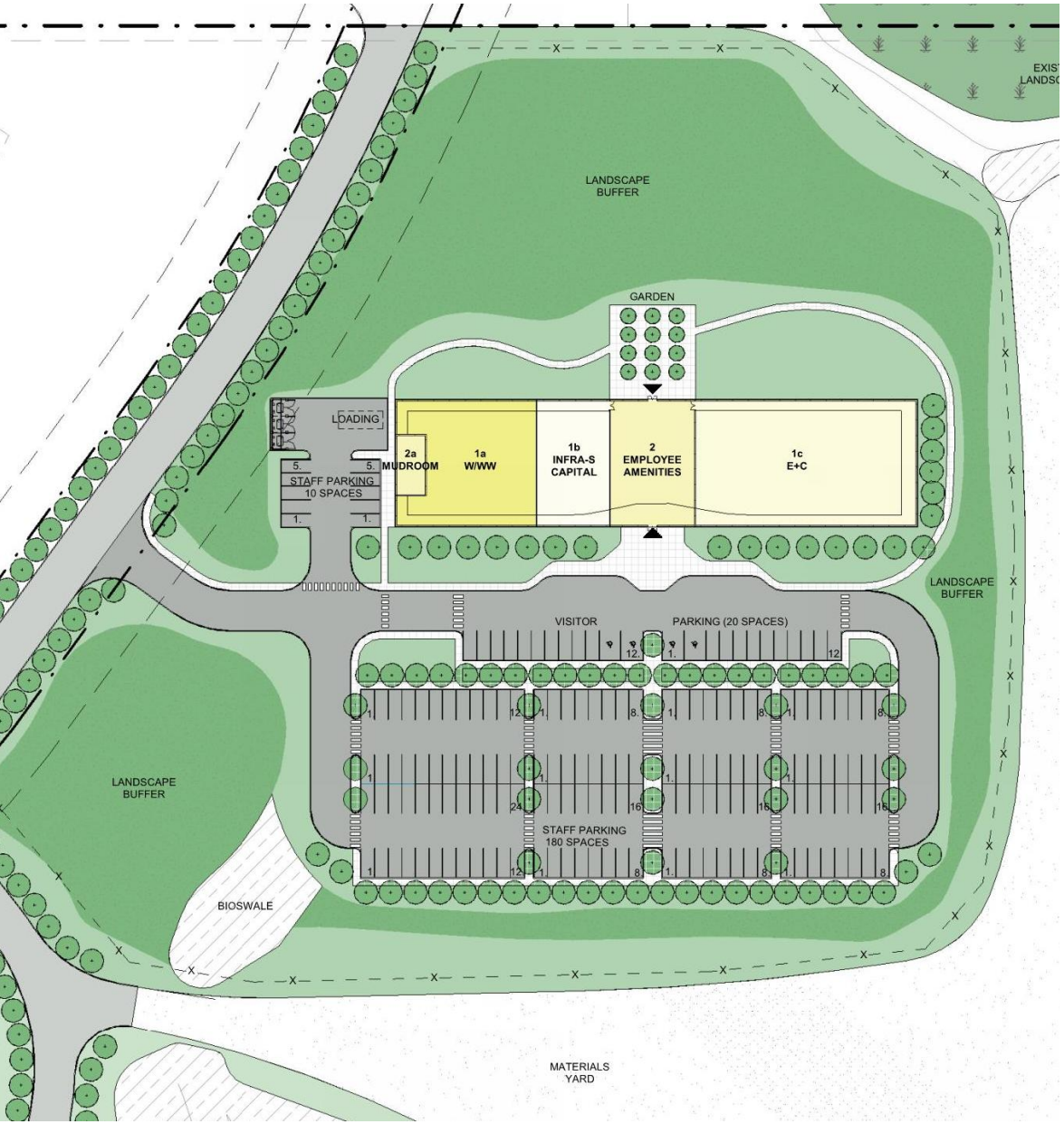
industry best practices for depot design

- full containment of sand/salt storage and loading.
- indoor loading and storage.
- left hand turn protocol.
- rationalized salt/sand volumes.

salt/sand facility

city of greater sudbury depot master plan

Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.



administration offices

industry best practices for depot design

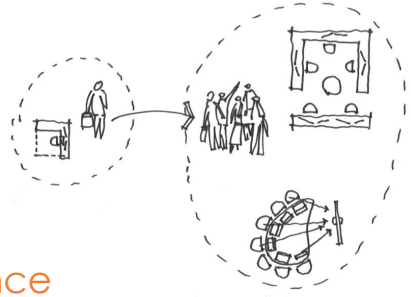
- Bring together four (4) departments.
- Create collaborative work spaces.
- Make spaces flexible, quiet and daylit.
- Use sustainable strategies.
- Share common spaces.
- Link interiors to landscape.

city of greater sudbury depot master plan

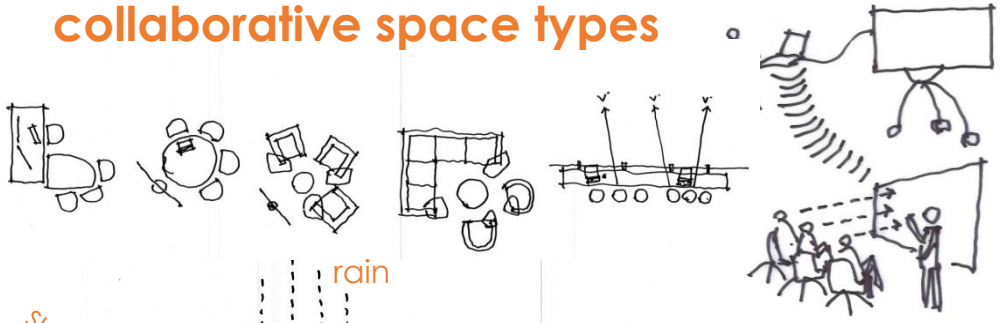
Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.

sustainable elements

- daylighting
- passive solar orientation
- high performance building envelop
- water reuse
- material use review
- net zero energy

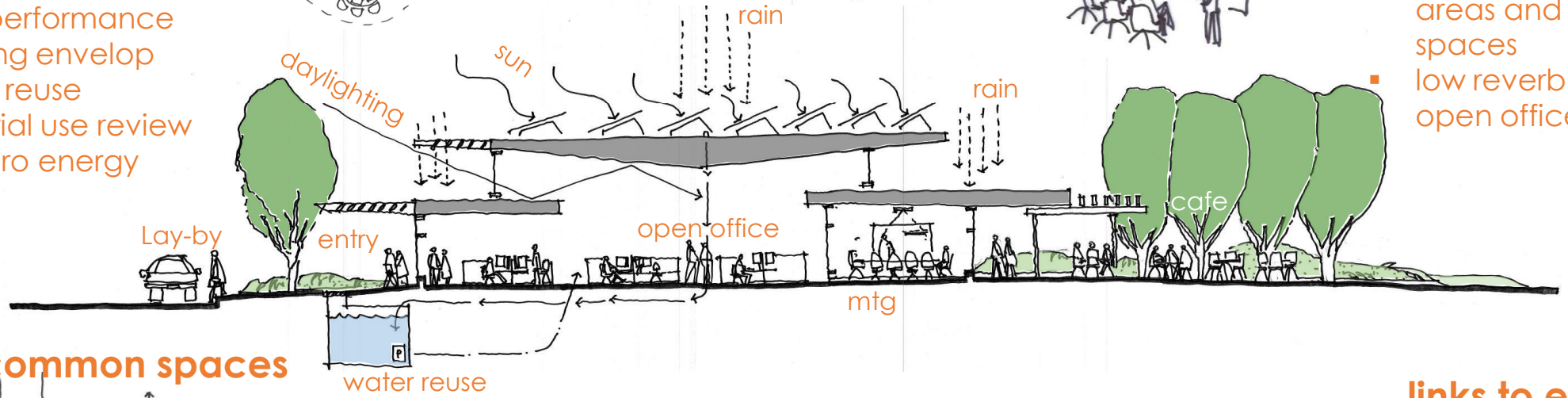


collaborative space types

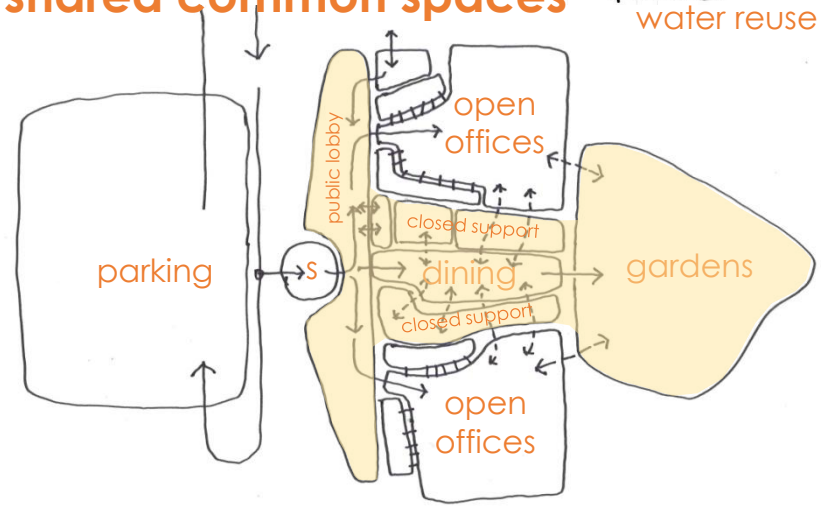


superior acoustics

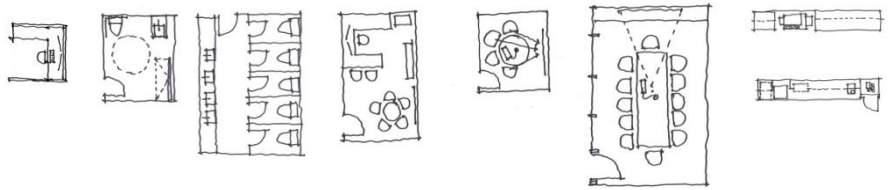
- low transmission between common space / open works areas and support spaces
- low reverb time in open office areas



shared common spaces



collaborative support space types



links to exterior landscape elements

administration offices

city of greater sudbury depot master plan

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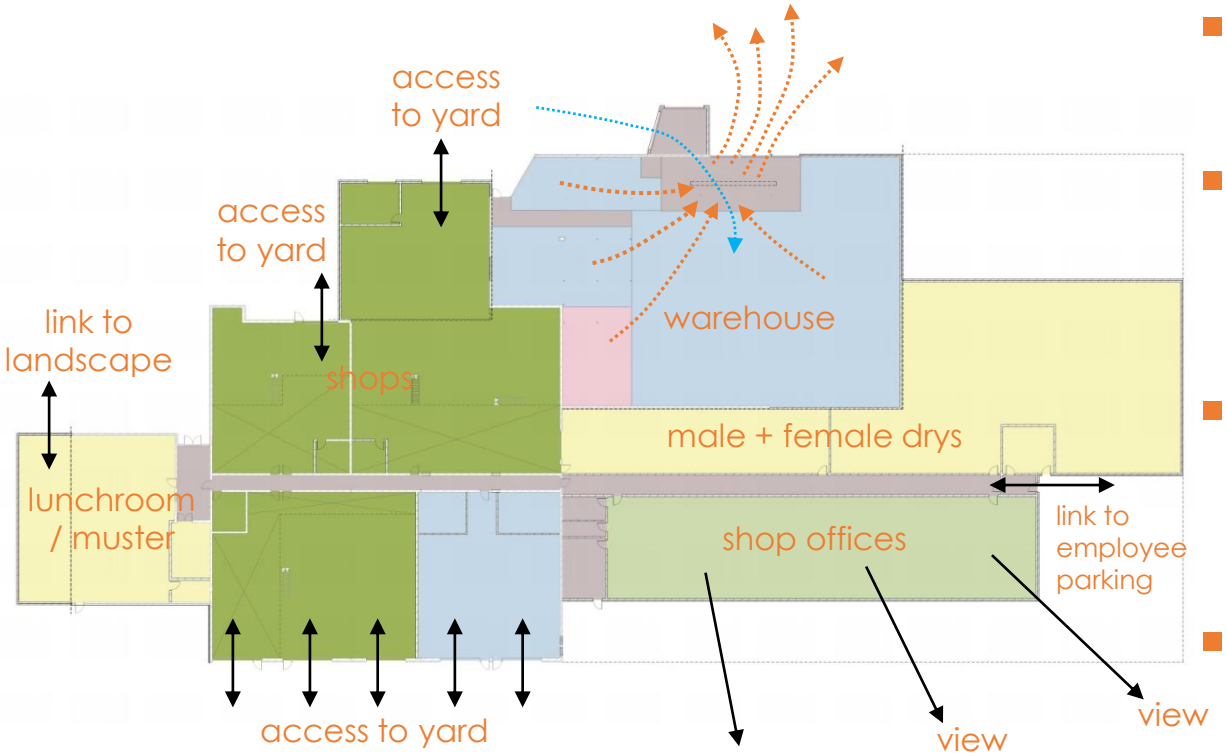
industry best practices for depot design



- Create efficient warehouse spaces.
- Create drys / changerooms to support clean / dirty wear strategies.
- Develop flexible lunchroom / muster / training facilities.
- Develop purpose made shops.
- Consolidate employ amenities, shops and admin support spaces.

centralized drys/warehouse/shops

city of greater sudbury depot master plan

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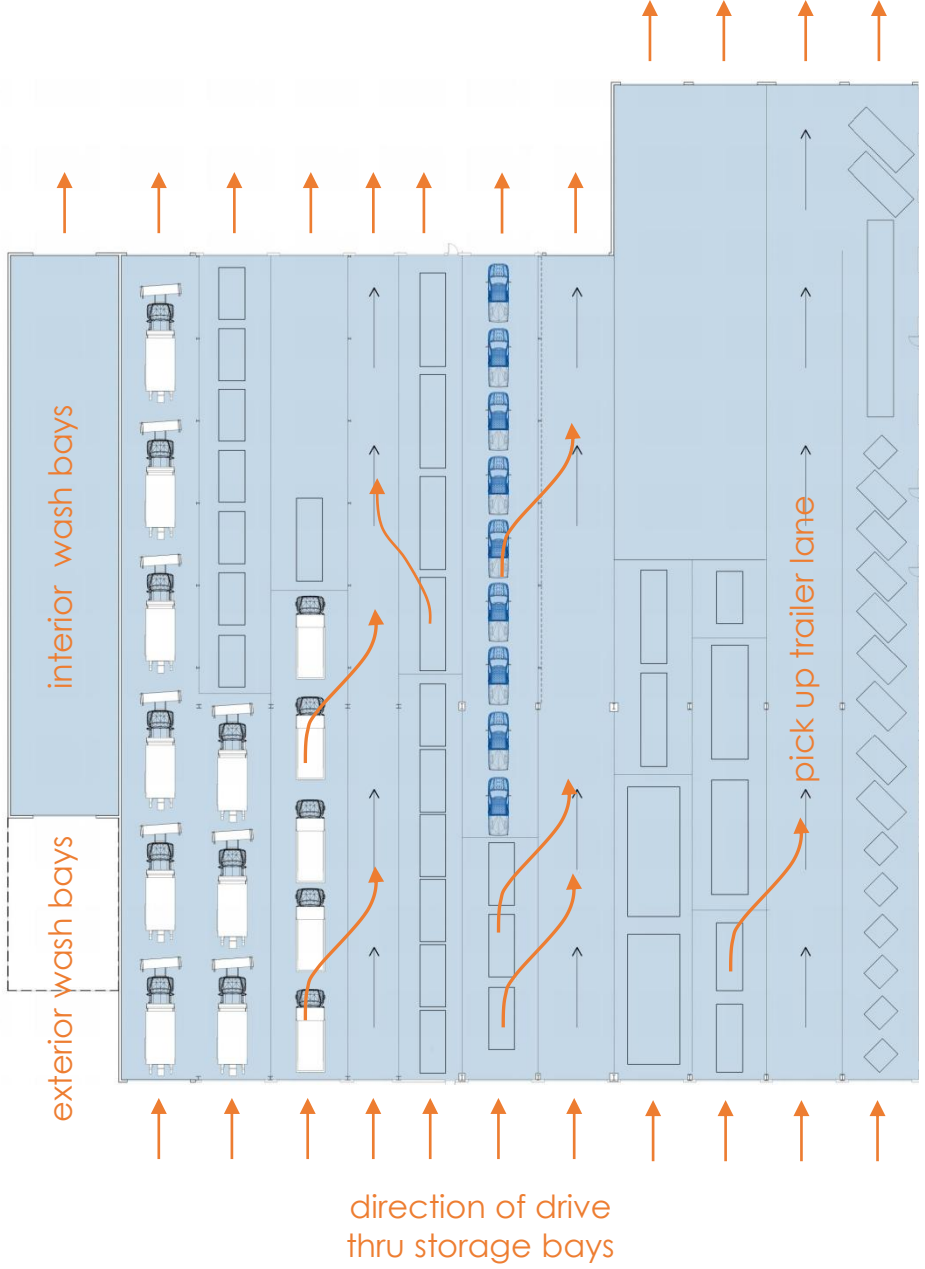
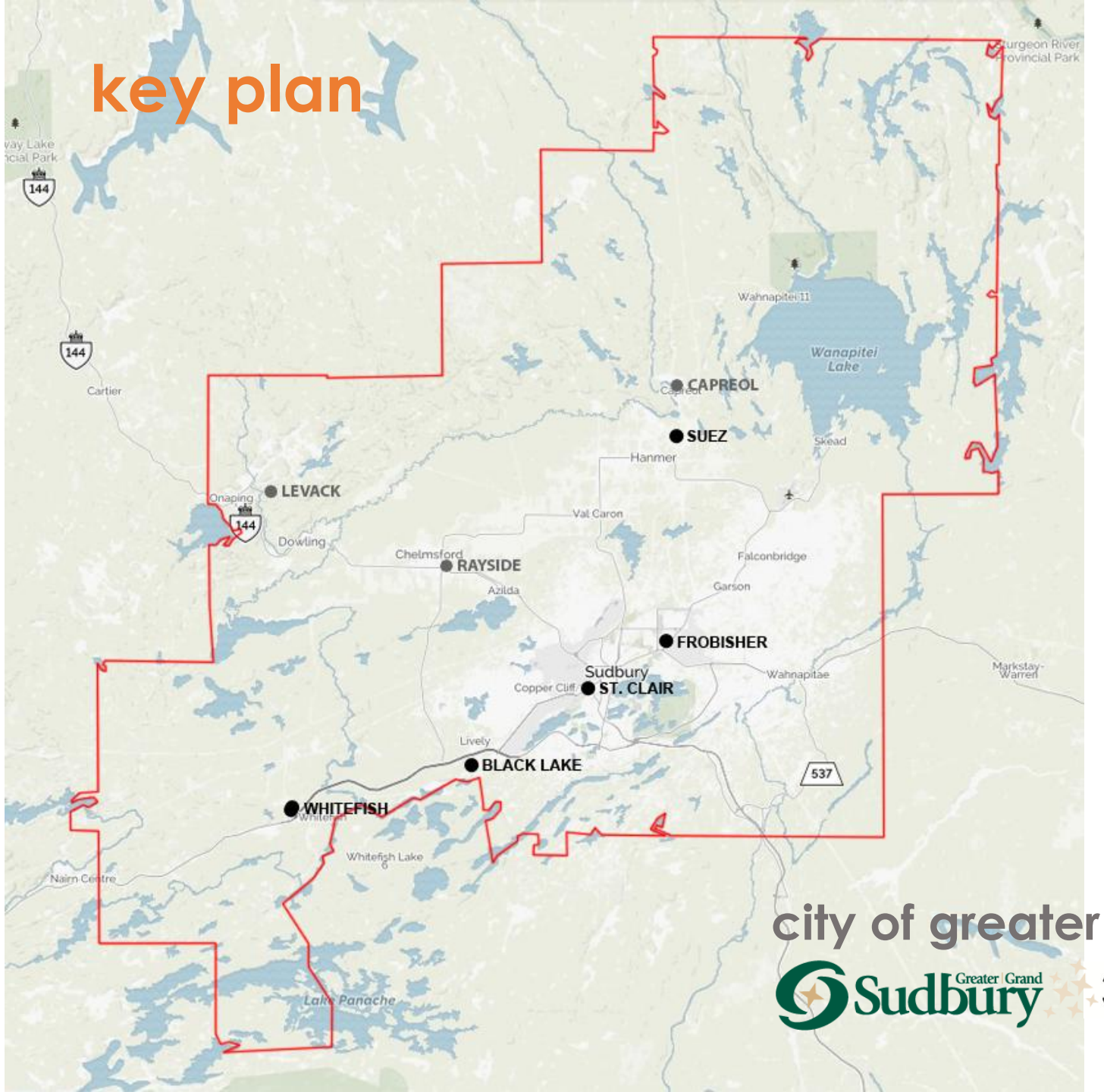


vehicle storage

industry best practices for depot design

- Use washbays / vehicle storage bays to extend vehicle life cycles.
- Develop distinct and secure traffic routes on all sites.
- Create efficient drive-thru storage for vehicles.
- Use drive thru lanes to permit flexible access to trailers / vehicle types.

key plan



city of greater sudbury depot master plan

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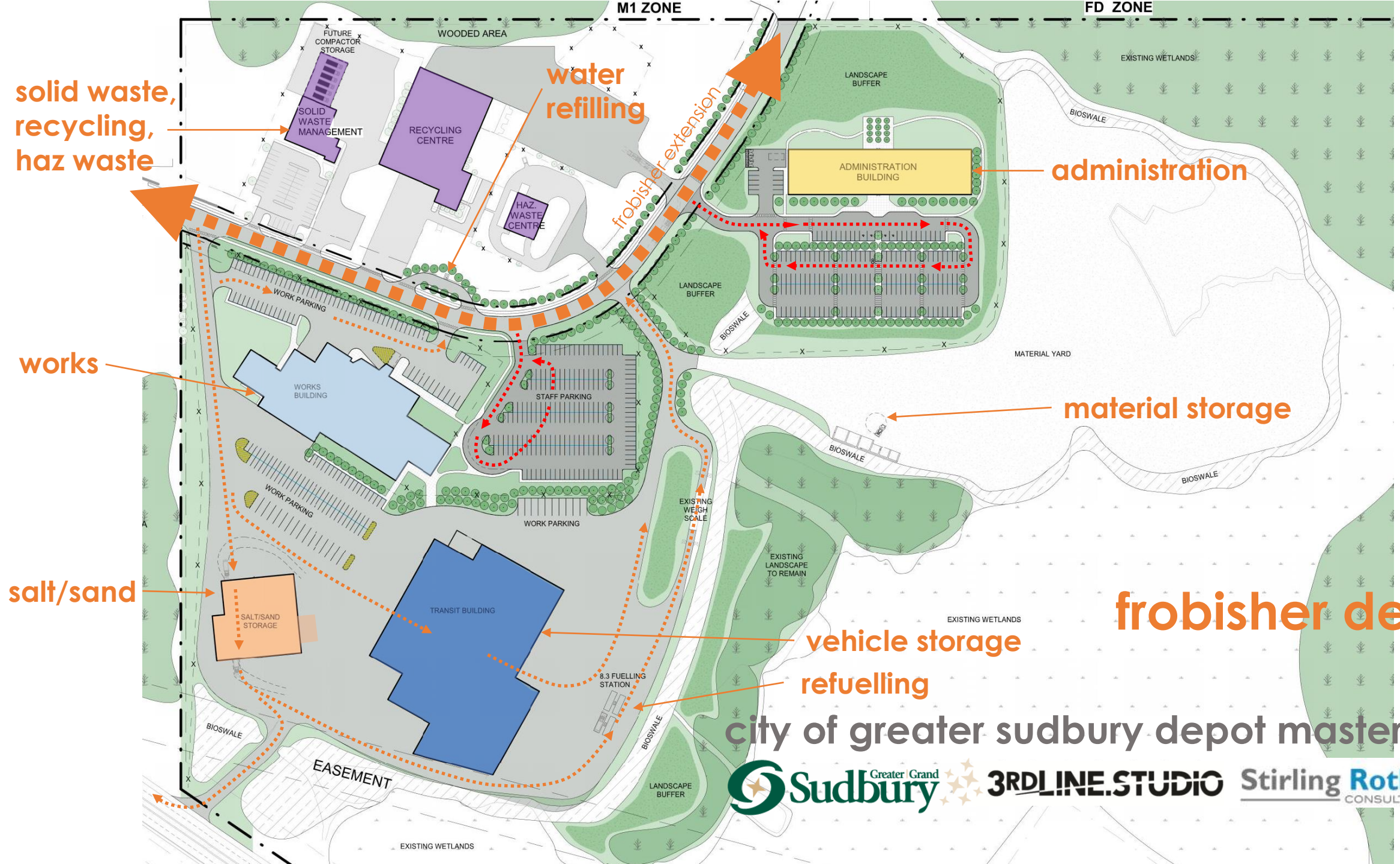
M1 ZONE
FD ZONE
WOODED AREA
FUTURE COMPACTOR STORAGE
SOLID WASTE MANAGEMENT
RECYCLING CENTRE
HAZ. WASTE CENTRE
water refilling
frobisher extension
solid waste, recycling, haz waste
LANDSCAPE BUFFER
ADMINISTRATION BUILDING
administration
EXISTING WETLANDS
BIOSWALE
MATERIAL YARD
material storage
WORK PARKING
WORKS BUILDING
works
STAFF PARKING
EXISTING WEIGH SCALE
EXISTING LANDSCAPE TO REMAIN
salt/sand
SALT/SAND STORAGE
TRANSIT BUILDING
vehicle storage
8.3 FUELLING STATION
refuelling
EASEMENT
frobisher depot
city of greater sudbury depot master plan
Sudbury
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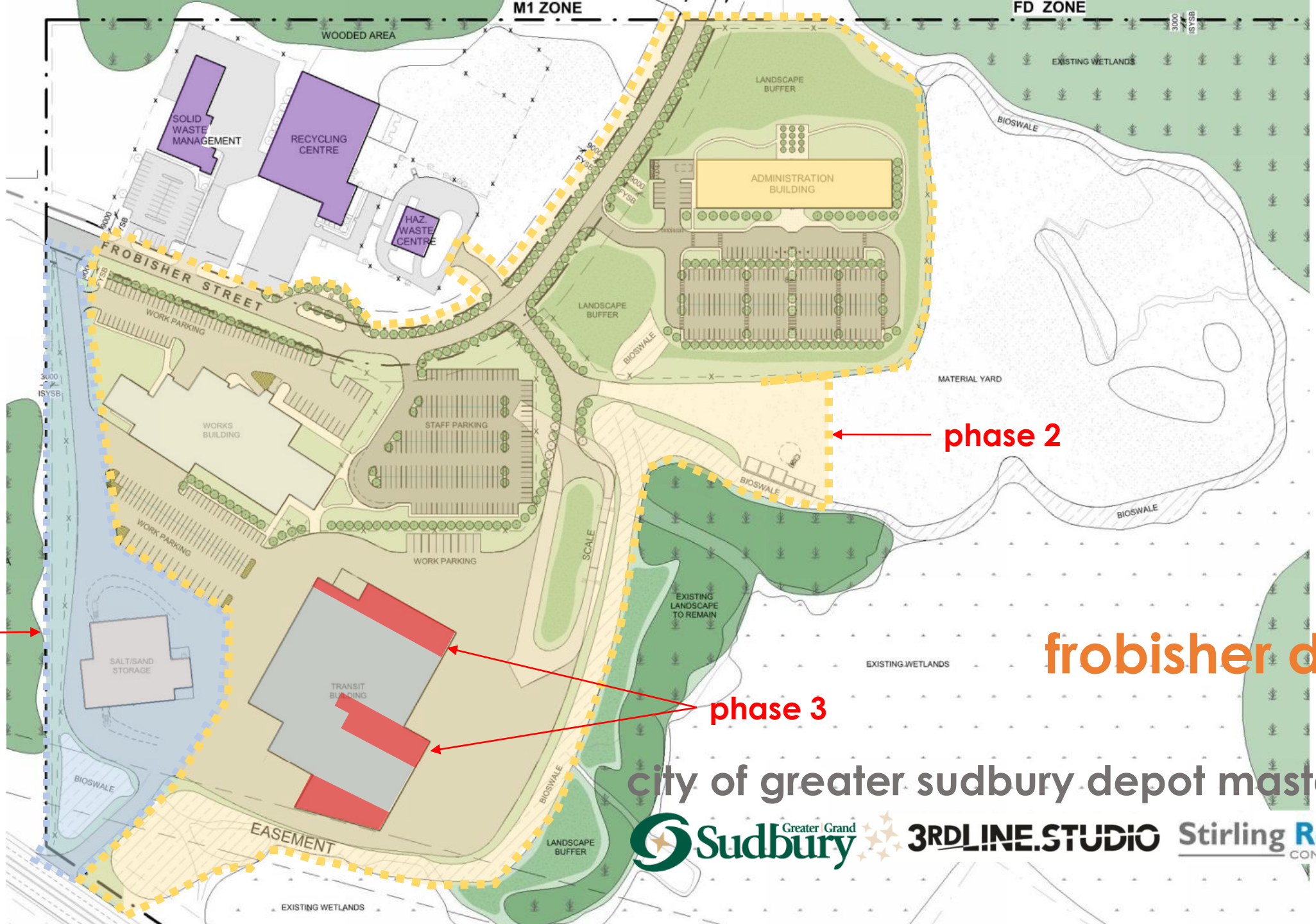

frobisher depot

city of greater sudbury depot master plan

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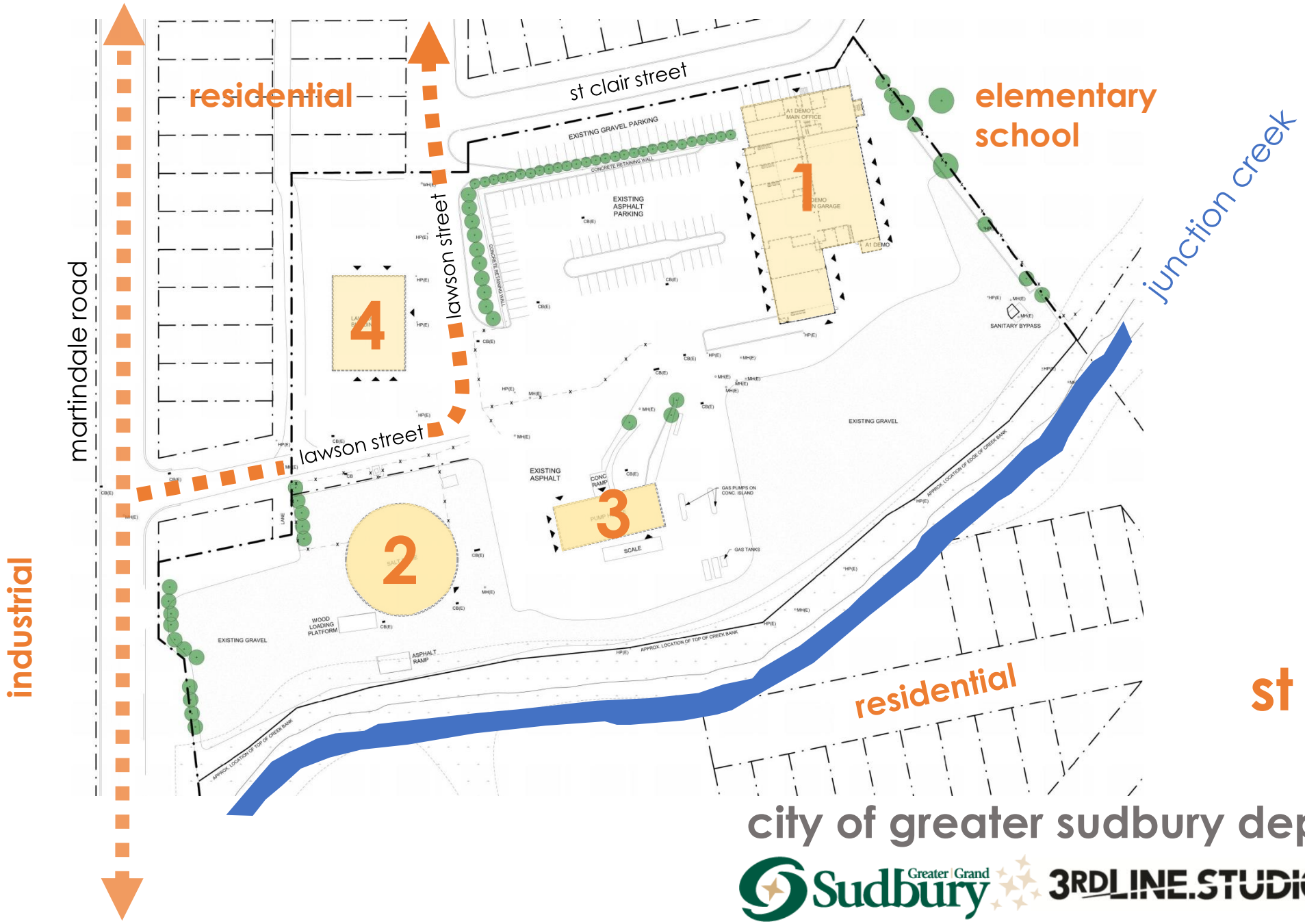

st clair depot

city of greater sudbury depot master plan

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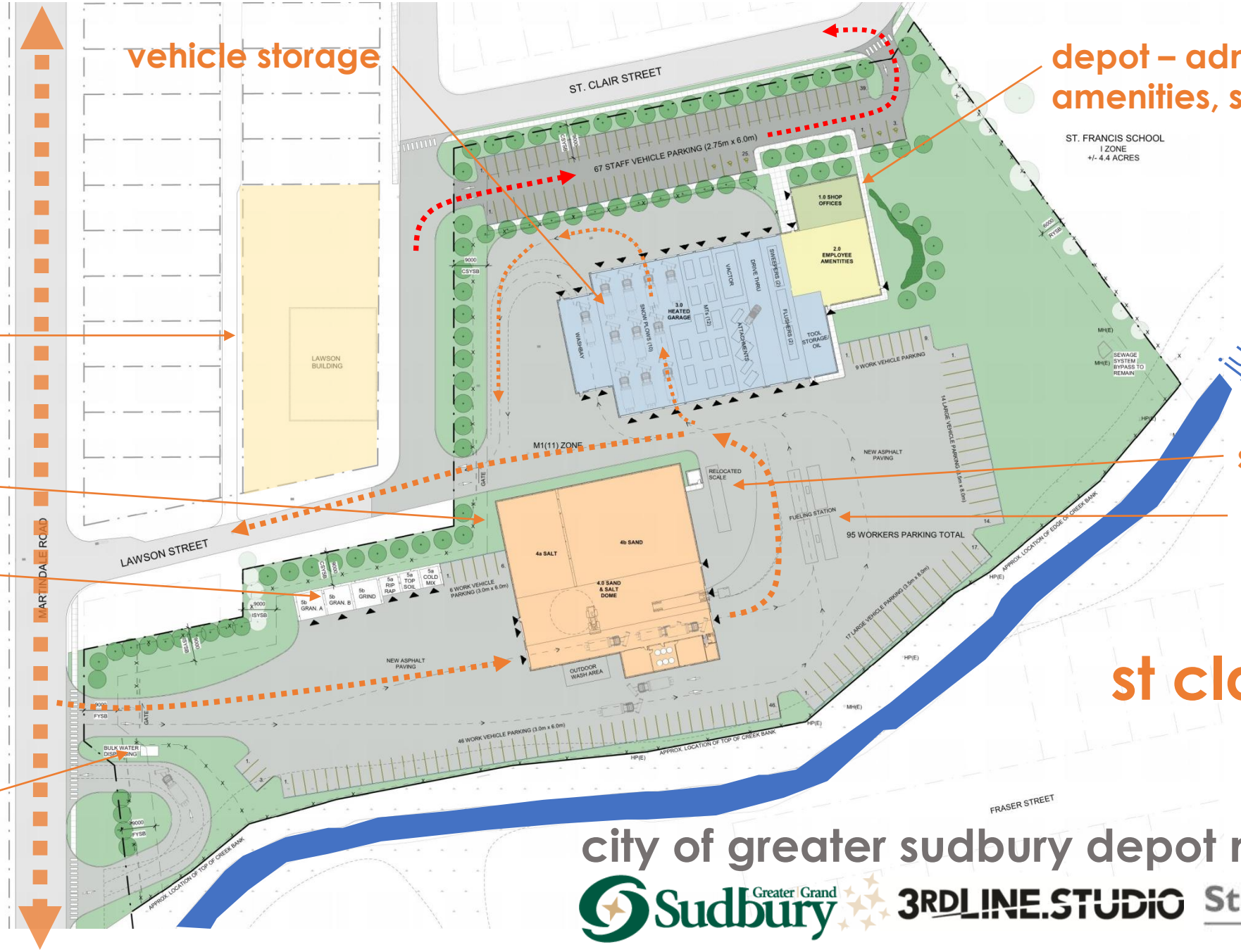

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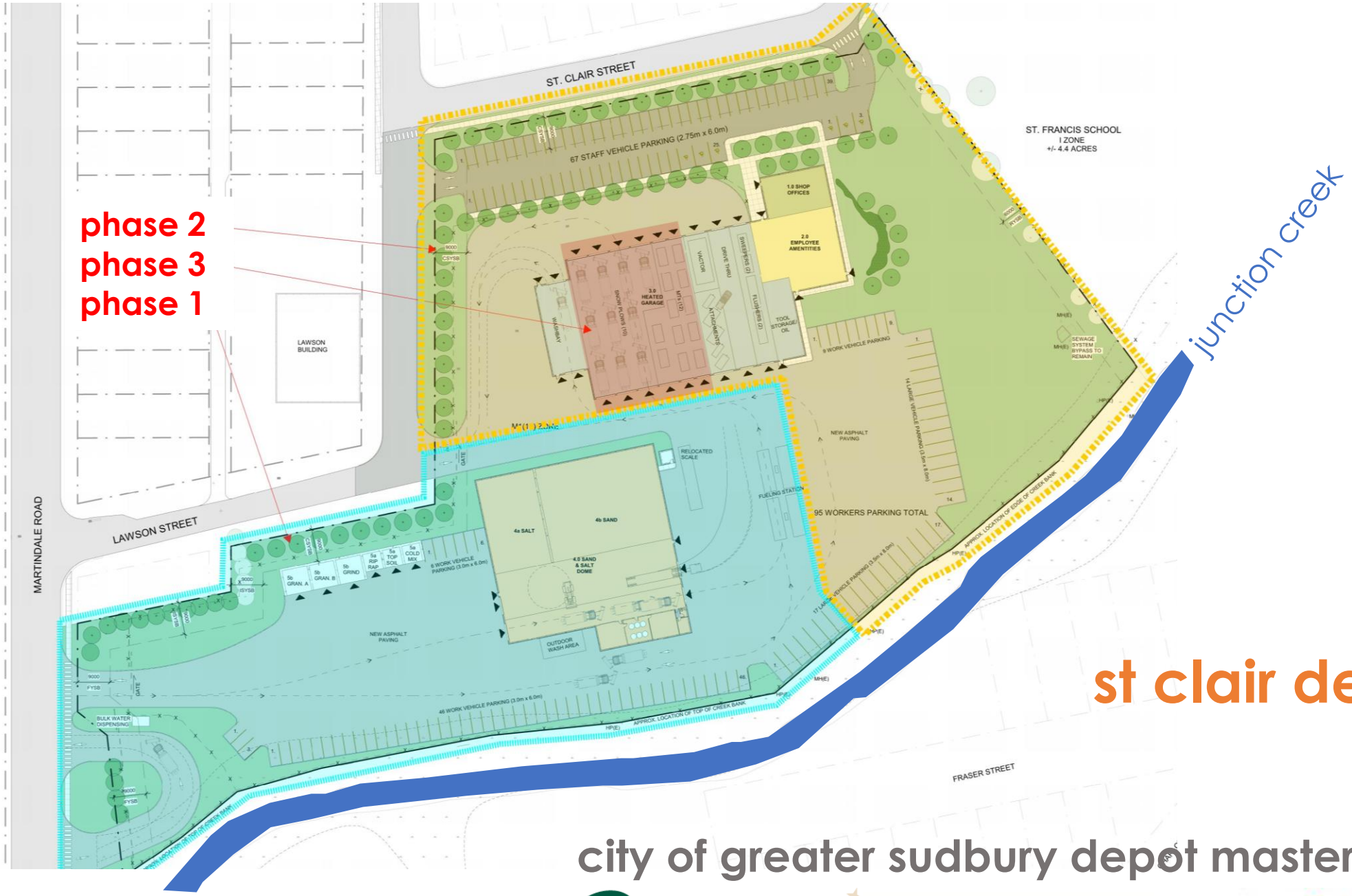

st clair depot

city of greater sudbury depot master plan

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vehicle storage

refuelling

water refill

salt/sand

material storage

depot – admin, employee amenities, shops

suez depot

city of greater sudbury depot master plan

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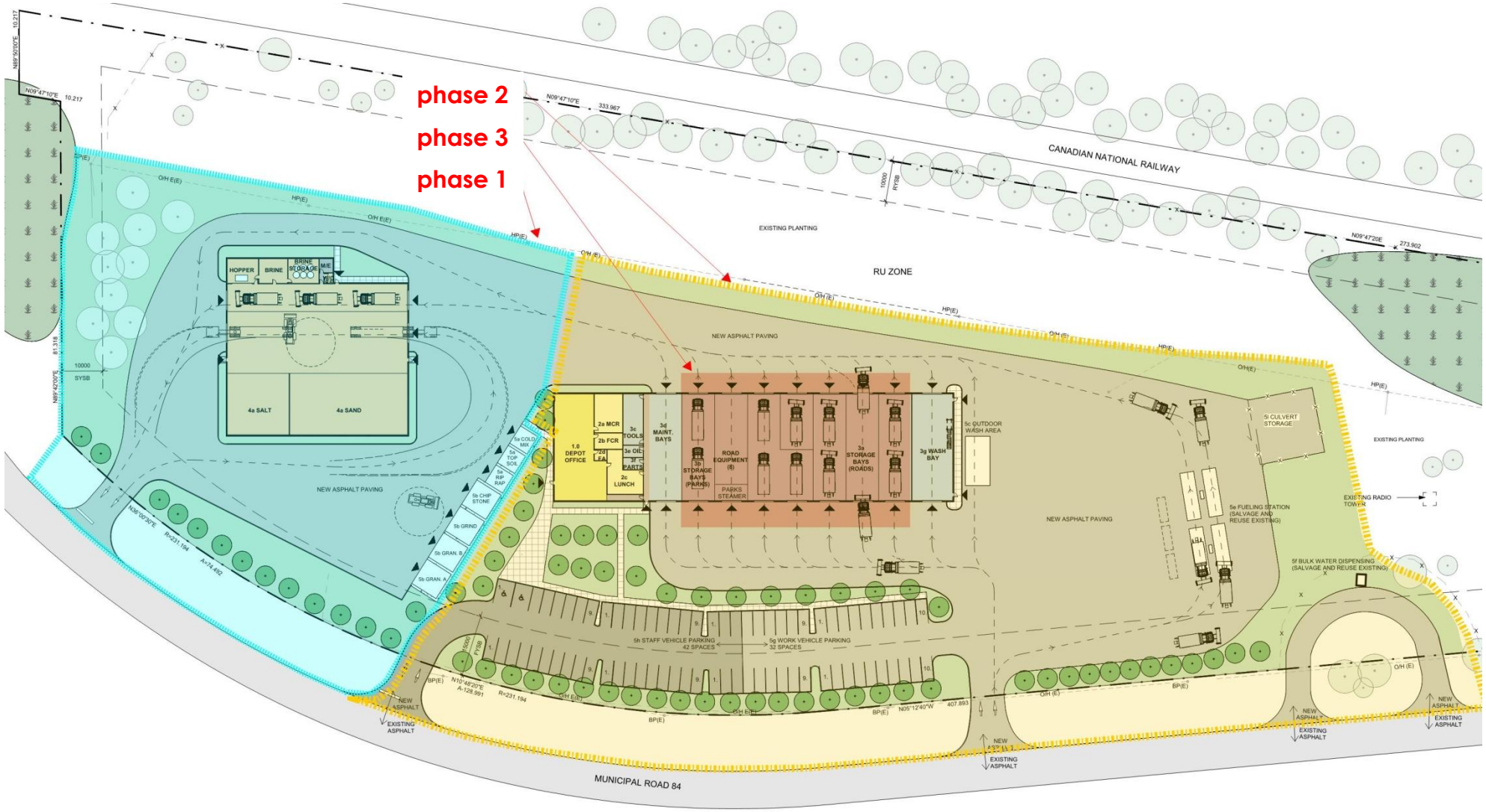

suez depot

city of greater sudbury depot master plan

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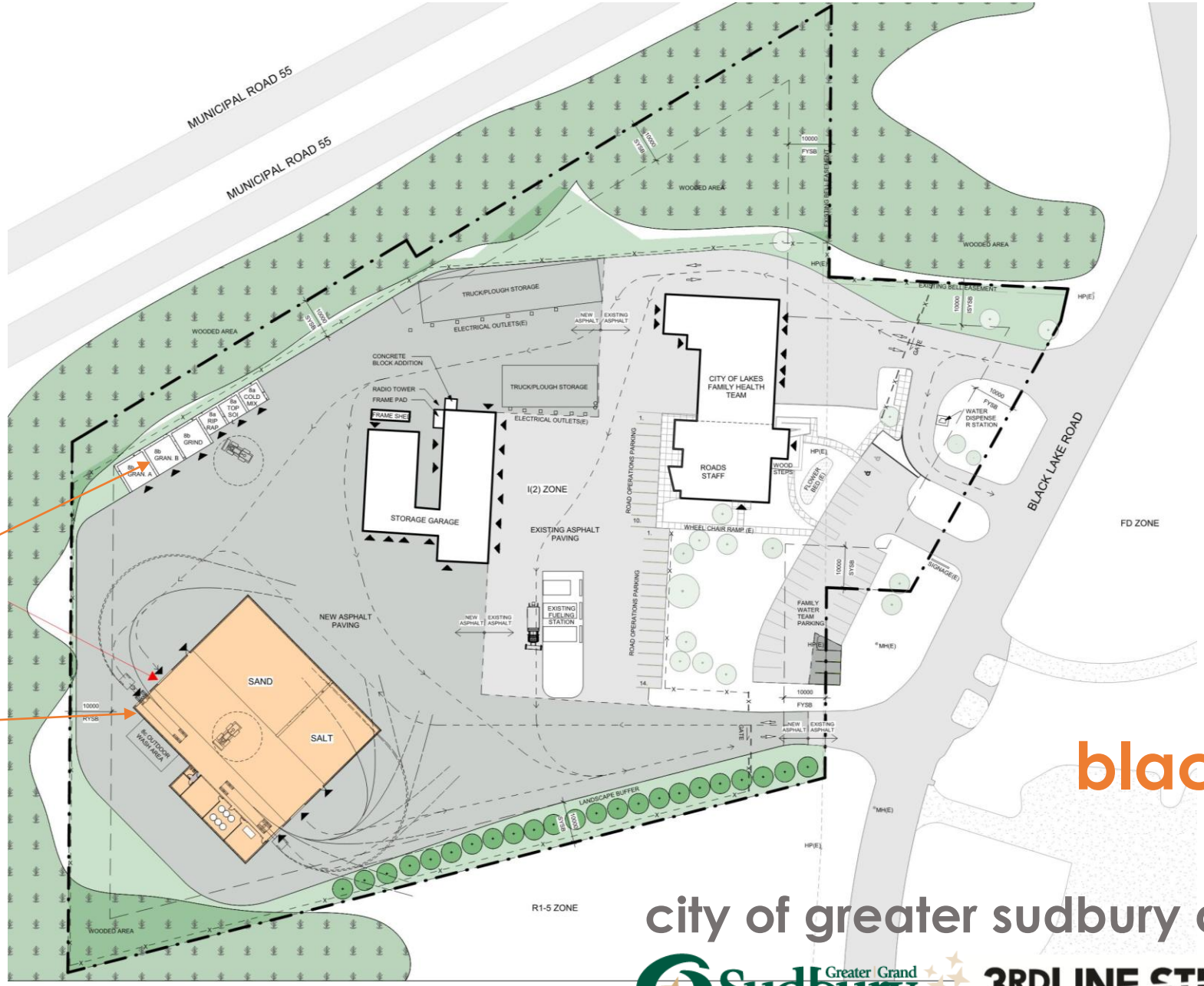

material storage

salt/sand

black lake depot

city of greater sudbury depot master plan

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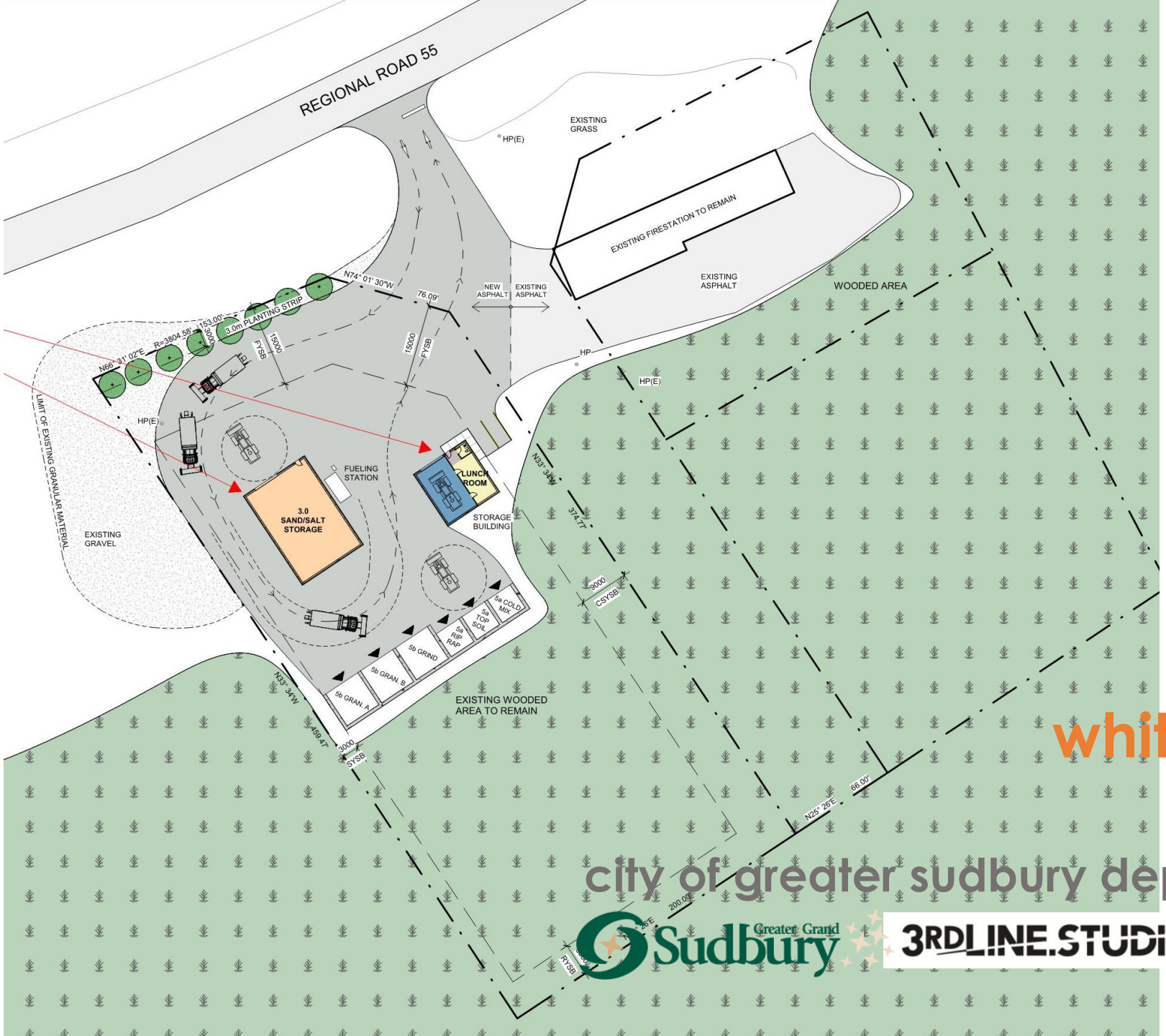
vehicle storage
salt/sand



whitefish depot

city of greater sudbury depot master plan

Greater Grand Sudbury

3RDLINE.STUDIO

Stirling Rothesay CONSULTING, INC.

next steps

- Detailed design for Phases 1 and 2.
- Cost estimates and implementation schedule will be updated.
- Prepare capital budget proposals for the capital prioritization process in 2020.

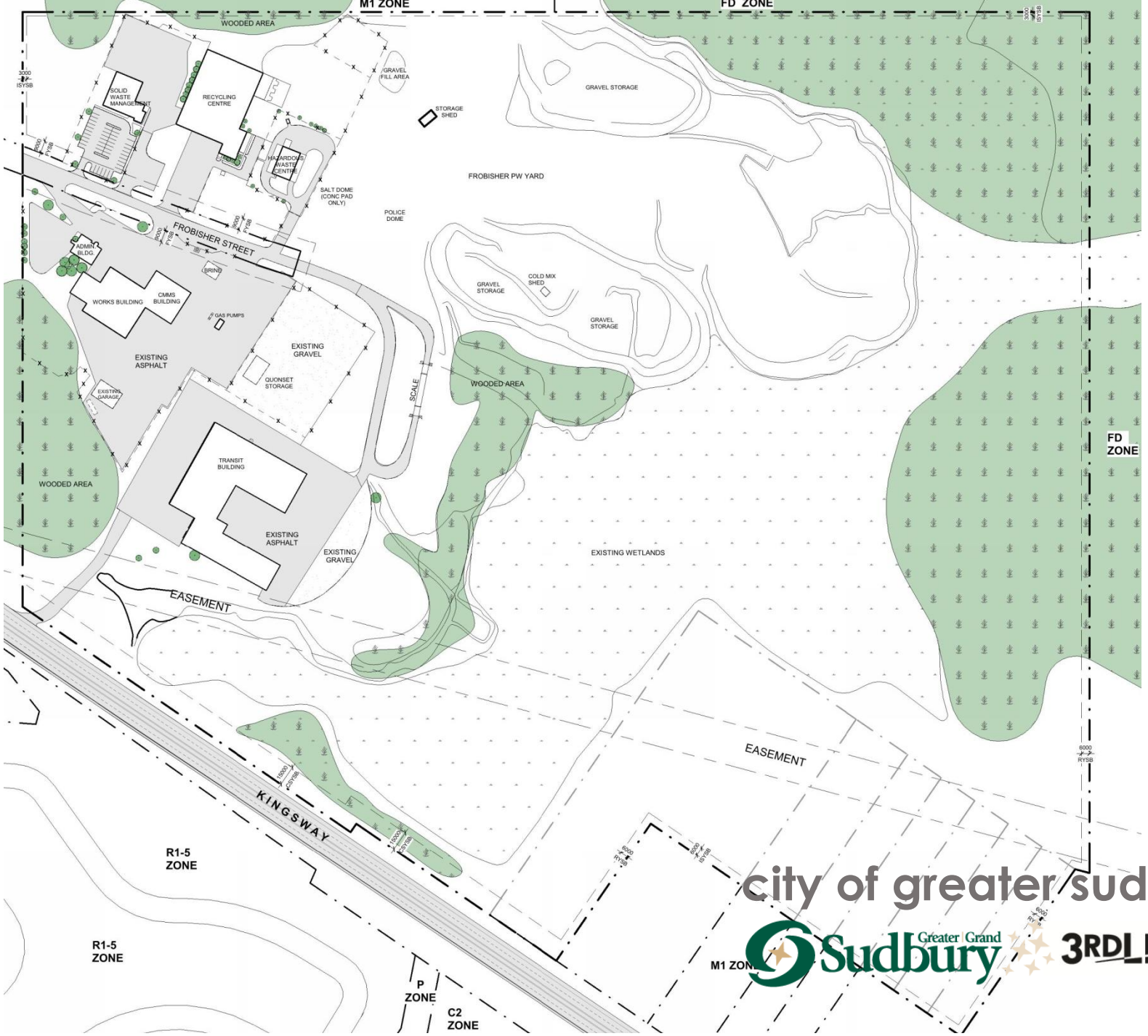
questions

city of greater sudbury depot master plan

Greater Grand Sudbury 3RDLINE.STUDIO Stirling Rothesay CONSULTING, INC.

back up reference slides

city of greater sudbury depot master plan



frobisher depot

city of greater sudbury depot master plan

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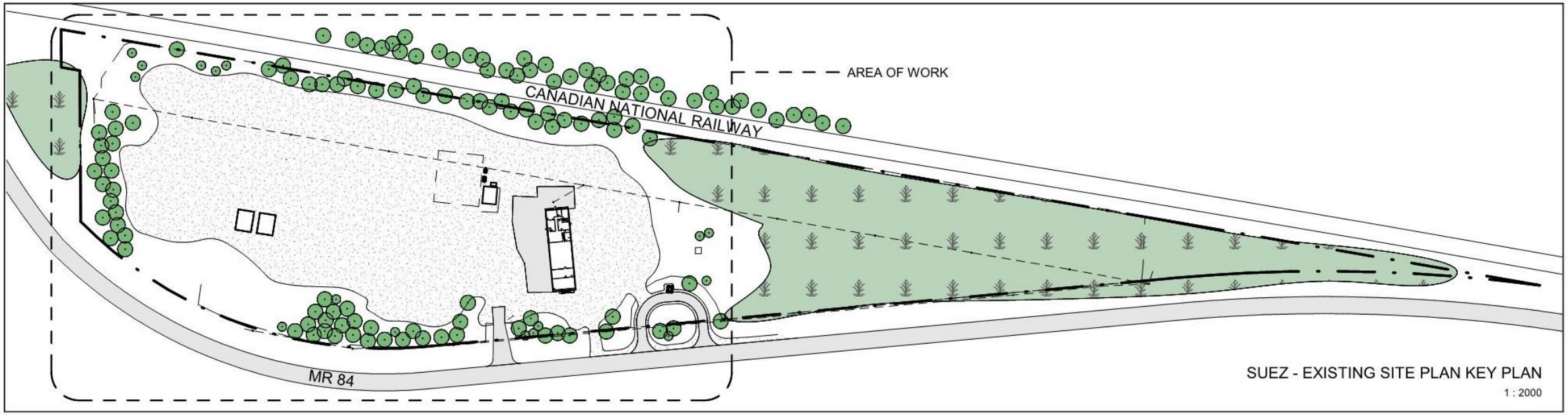

suez depot

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suez depot

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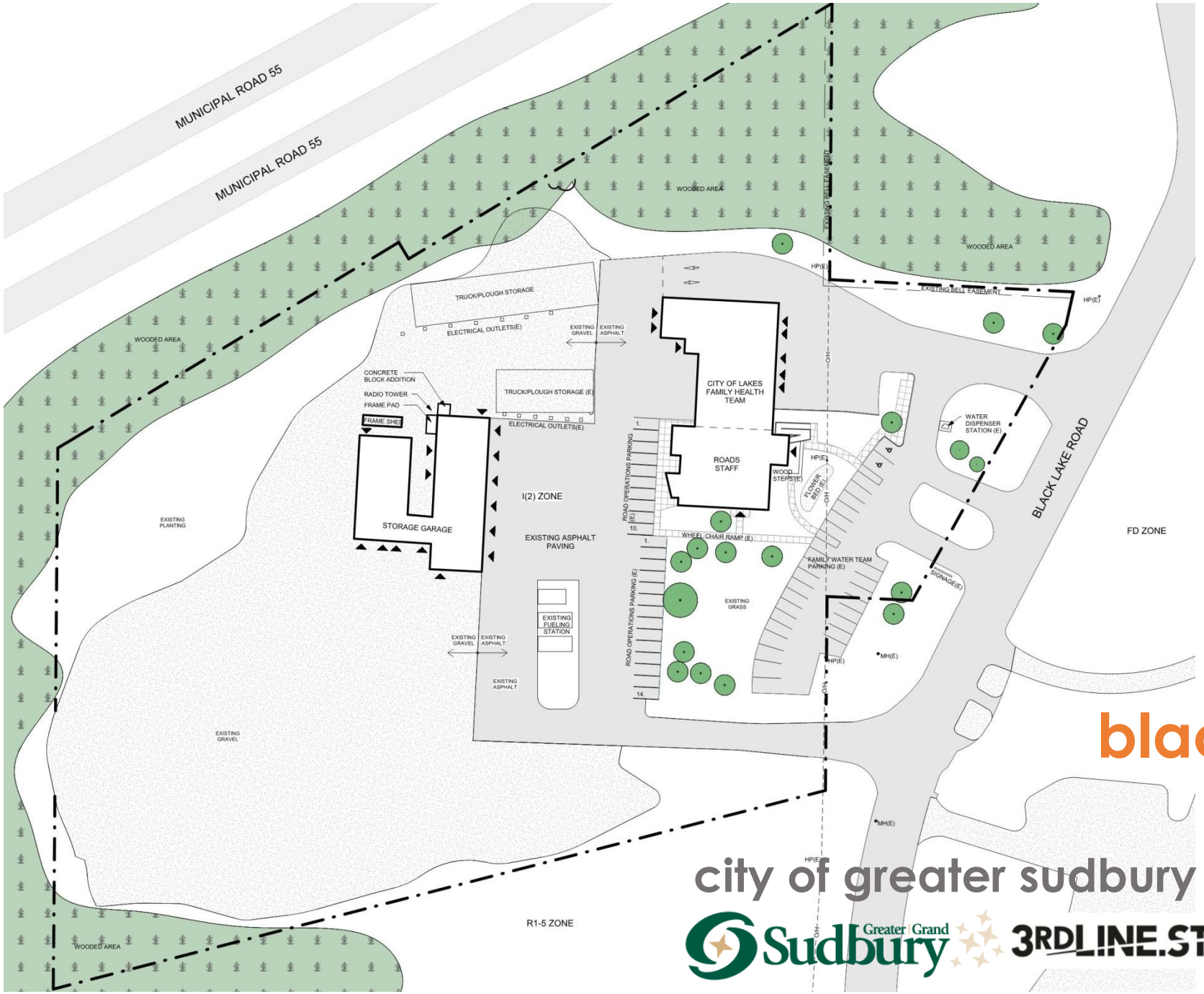

black lake depot

city of greater sudbury depot master plan

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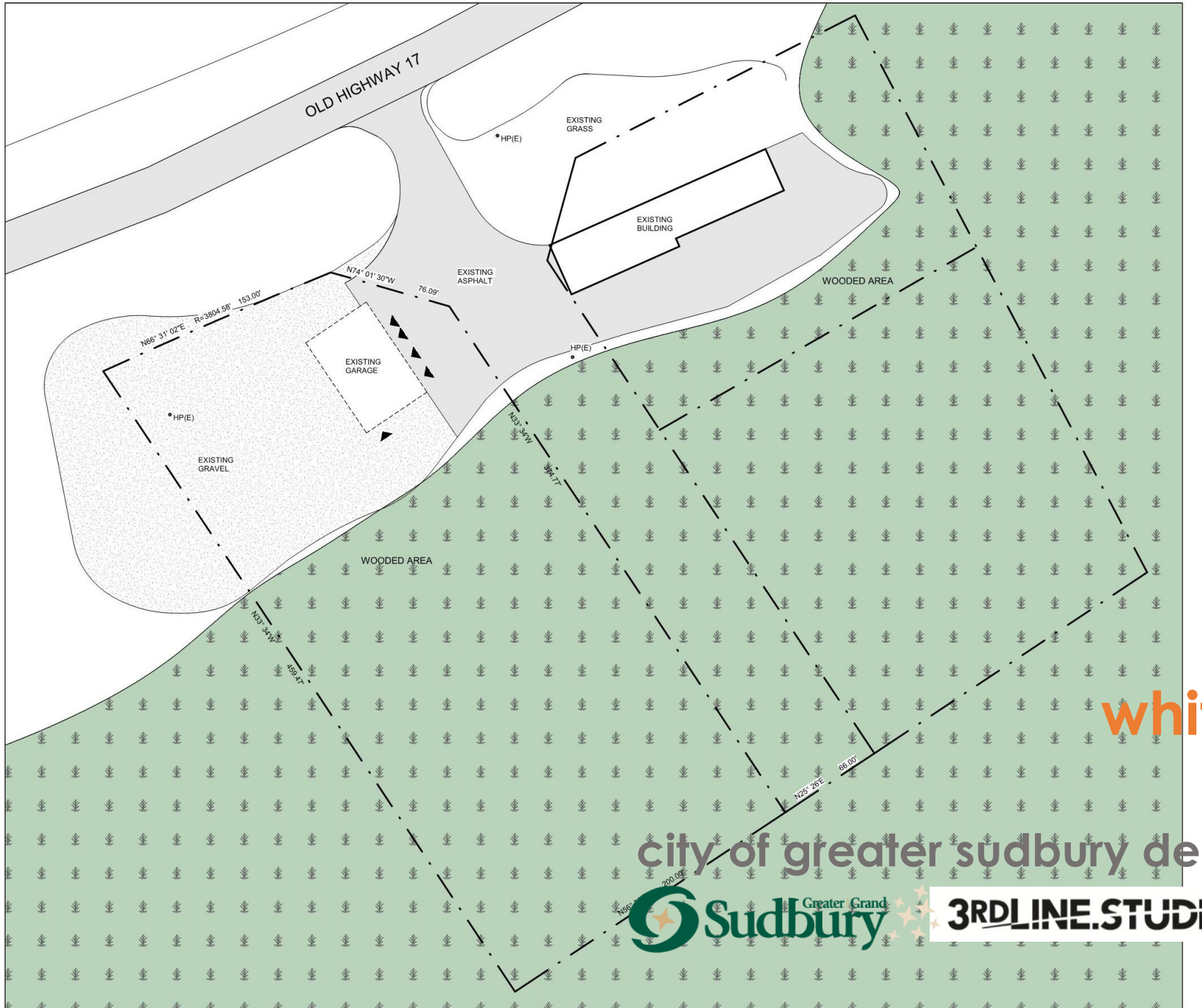

whitefish depot

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frobisher depot

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