

2024 Public Works Capital Program

March 22, 2024



Agenda

1. Introductions / Team Structure
2. Overview of Capital Planning
 1. Non-Development (SOG)
 2. Development (allocation)
 3. Funding Mechanisms
3. Review 2024 Capital Program
4. Project Timelines
5. Key Project Highlights
6. Break
7. Supply Chain Management (Procurement) Updates
8. General Feedback/Discussions
9. Q&A



What do we build?

Public Works

E&C

PC&E

Transportation

Water
Distribution
(Linear &
Vertical)

Wastewater
Collection
(Linear &
Vertical)

Waste
Management

Water
Treatment

Wastewater
Treatment

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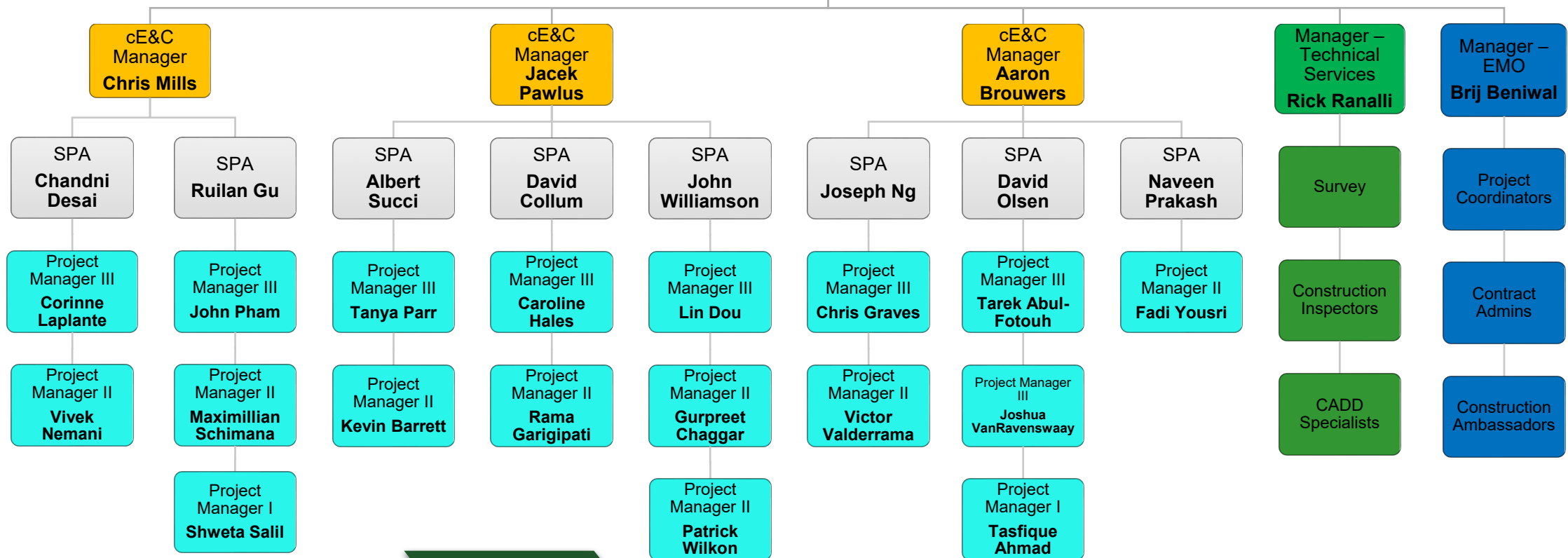
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Q&A

Organizational Chart - E&C

Director of Engineering & Construction
Marek Braczek

*SPA = Senior Project Advisor



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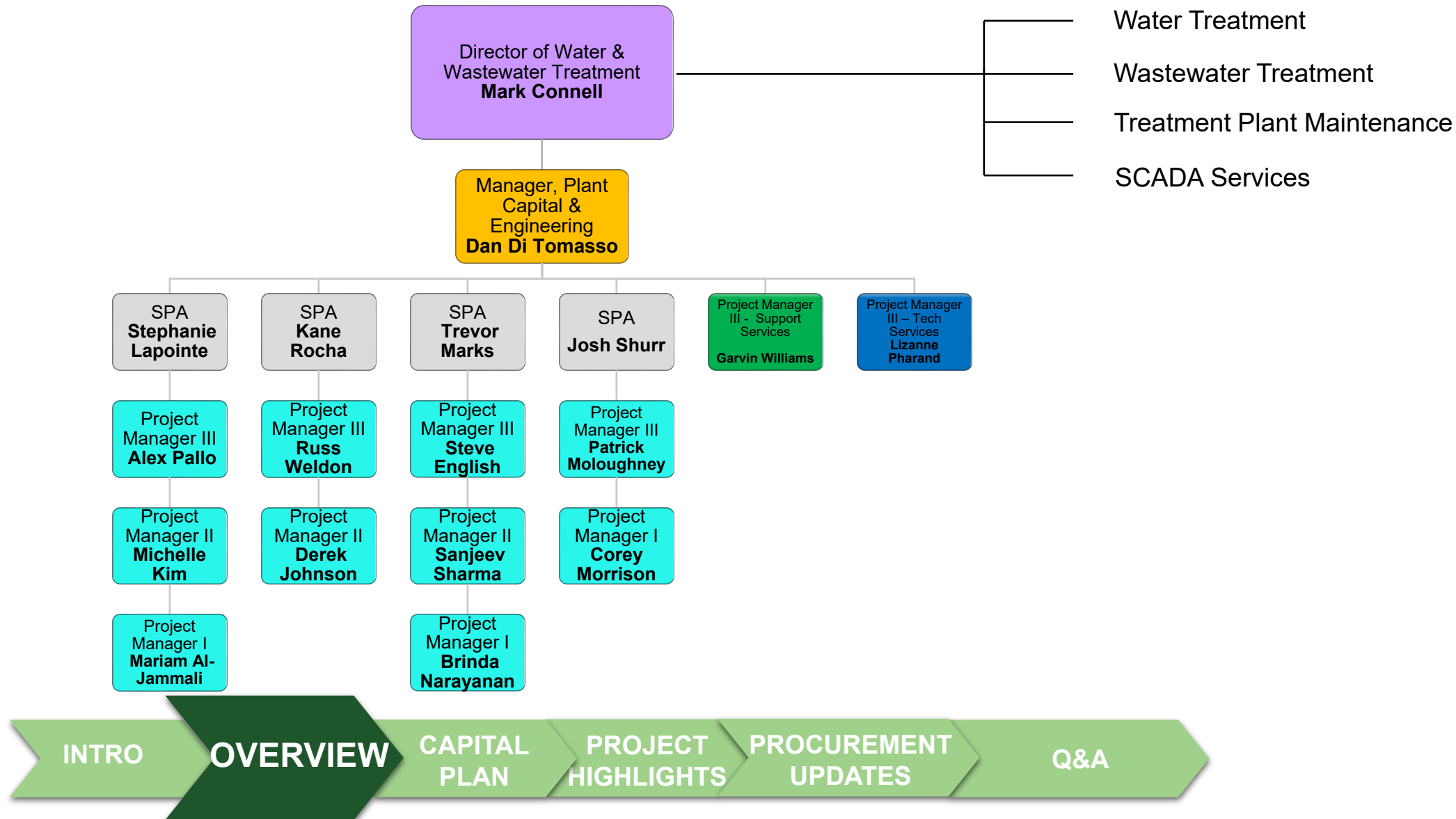
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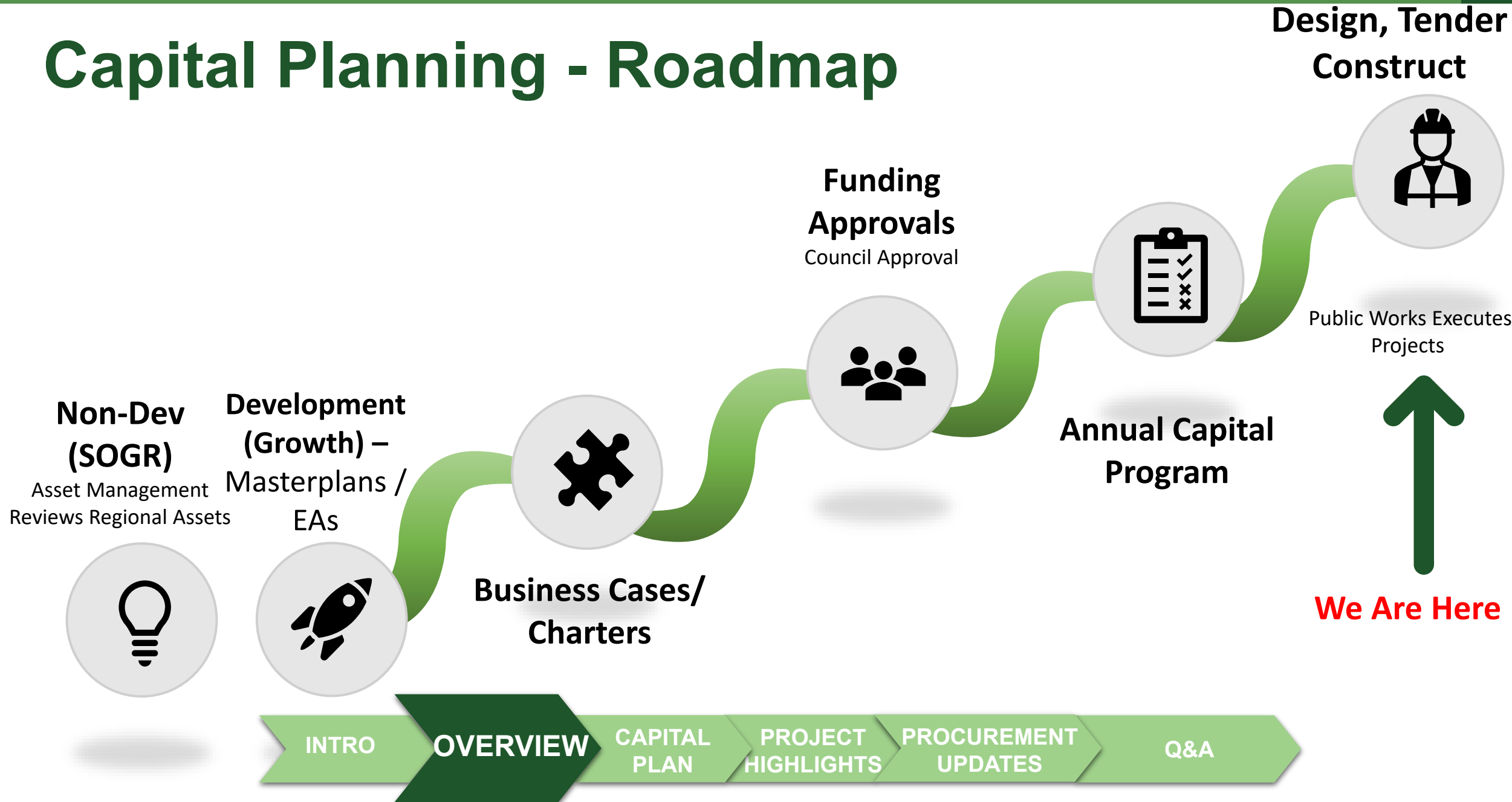
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Organizational Chart - PC&E



Capital Planning - Roadmap



Capital Planning – Funding Overview

- Two Types of Programs
 - Non-Development (SOG)
 - Typical projects: like for like replacements
 - Approved by Council annually (typically December)
 - Rate funded (Water/Wastewater), Levy/Tax (Road)
 - Development (allocation)
 - Typical projects: large, complex, greenfield/road widenings, treatment expansion etc.
 - Developers upfront the costs for the capital program “growth pays for growth”
 - Approved through Allocation programs (multi-year)
 - Current Allocation Program has been approved – 2023-2026 Projects



Capital Program Forecast: 2024-2031

Project Type	Planned Amount
Transportation	\$3,129,224,000
Water/Wastewater (Linear/Vertical)	\$2,101,857,000
Water/Wastewater Treatment	\$1,091,003,000
Waste Management	\$83,741,000
Total	\$6,405,825,000

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Capital Program RFPs – 2024-2026

Proposed Project Bundles	2024 Design	2025 Design*	2026 Design*
W/WW Non-Dev	3	8	6
W/WW Dev	4	10	4
Roads Non-Dev	5	7	9
Roads Dev	5	8	7
Waste Management	0	0	1
W/WW Treatment Non-Dev	12	7	4
W/WW Treatment Dev	1	1	-
Total	30	41	31

*estimated projections

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2024 Capital Program RFPs Quarterly Outlook

Proposed Project Bundles	Q1	Q2	Q3	Q4
# Of Anticipated RFP's	2	19	8	1
Approved Design Budget	\$0.75M	\$68.04M	\$12.19M	\$4.10M
Approved Construction Budget	\$2.05M	\$593.48M	\$52.71M	\$28.80M
Total	\$2.80M	\$661.52M	\$64.90M	\$32.90M

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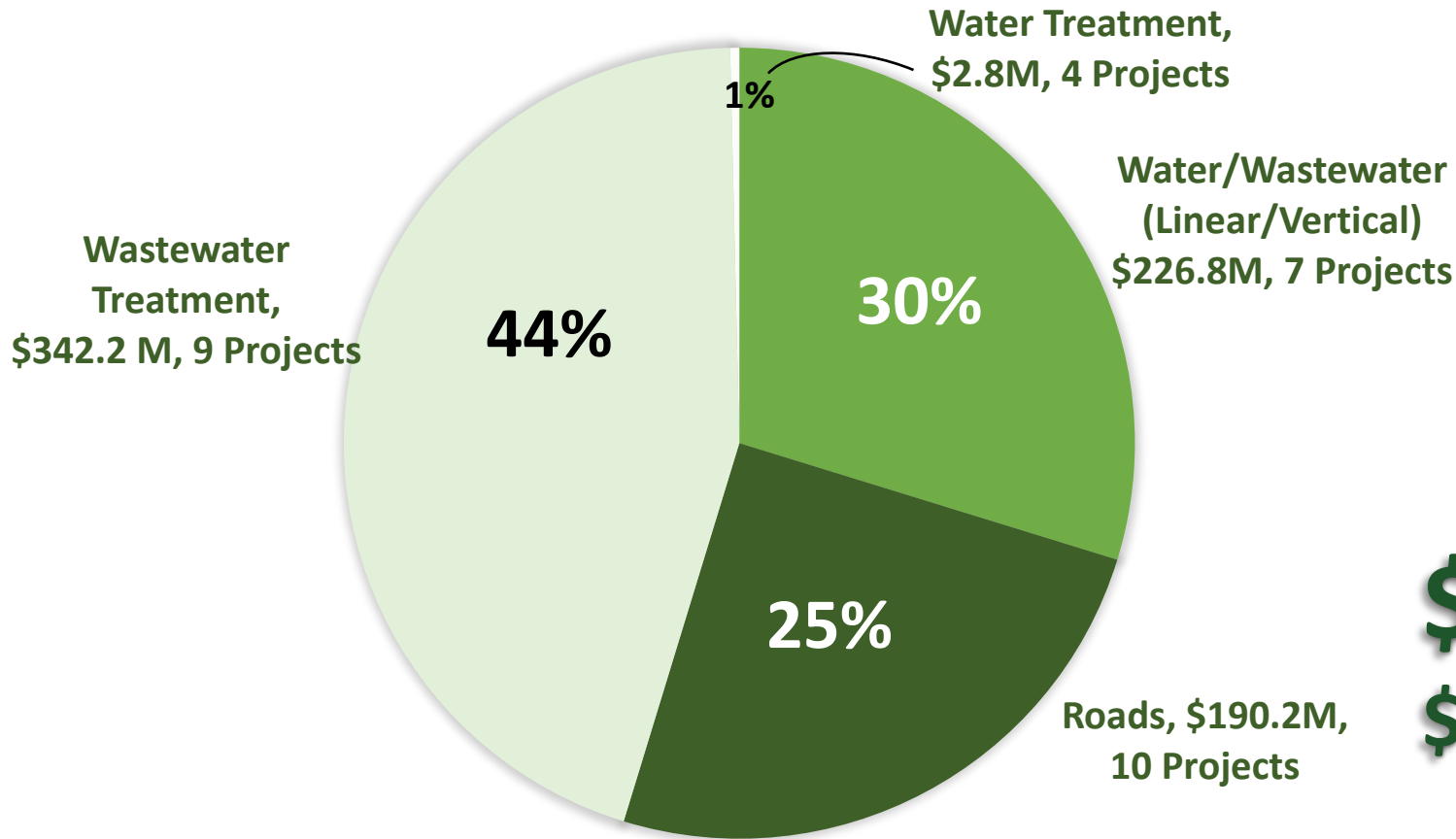
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2024 Capital Program - Review

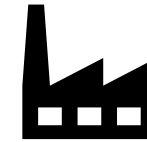
DESIGN & CONSTRUCTION BUDGETS



43 KM Wastewater mains

32 KM Watermains

24 KM Roads



7 Treatment Plants (Water & Wastewater)

\$ 762M Total Capital Program (D&C)
\$ 85M Design Only

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Review E&C 2024 Capital Program

Legend

ND = Non Development Projects
(Region funded)

Dev = Development Projects
(Developer funded)

RFP Count	PR#	Project Type	Project Description	Section Manager	2024 Tender Quarter
1	PR-3338C	RD ND	Appleby Line Erosion at Culvert Headwall North of Highway 407	Aaron Brouwers	Q1
2	PR-3131A/3145A	RD DEV	Steeles Widening and Realignment from Tremaine Road to Industrial Drive	Aaron Brouwers	Q2
3	PR- 3515	W/WWM DEV	WWM/WM to Lower Base Line Pumping Station (South Britannia 1)	Aaron Brouwers	Q2
4	PR-3516	W/WWM DEV	WM on Sixth Line, North and South of Britannia Road (North Britannia 1 Part 2)	Jacek Pawlus	Q2
5	PR-2888	RD DEV	Holgate Crescent and James Snow Parkway Intersection Improvement	Jacek Pawlus	Q2
6	PR-2889	RD DEV/ND	Temporary Signals at Regional Road 25 and Henderson Road	Jacek Pawlus	Q2
7	PR-2889	RD DEV/ND	Regional Road 25 at No. 22 Side Road New Signals	Chris Mills	Q2
7	PR-2889	RD DEV/ND	Turning Lane additions at the Intersection of Regional Road 25 & No. 17 Side Road	Chris Mills	Q2
8	PR-3342H	RD ND	2026 Road Resurfacing Program	Aaron Brouwers	Q2
9	PR3380C	RD ND	Bridges and Culverts Program	Rick Ranalli	Q2
10	PR-3252/2662B	RD ND	Noisewalls & Retaining Walls Program	Chris Mills	Q2
11	PR- TBC	W/WWM DEV	WWM on Oak Street and Childs Drive	Jacek Pawlus	Q2
12	PR-3476	W/WWM ND	WM/WWM on Mainway/Upper Middle Road/Fairview Street SOGR Grid	Aaron Brouwers	Q2
13	PR-3451	W/WWM ND	WM & WWM at Various Locations in Southeast Oakville	Jacek Pawlus	Q2
14	PR-3477	W/WWM ND	WM on Sinclair Avenue and WM/WWM on Commerce Crescent	Aaron Brouwers	Q2
15	PR-3508	RD ND	Derry Road and Appleby Line Intersection Improvements	Jacek Pawlus	Q3
16	PR- TBC	W/WWM DEV	WM/WWM on Derry Road and Eighth Line (Trafalgar/Agerton 2)	Chris Mills	Q3
17	PR- 2921B	RD/W DEV & ND	Norval Bypass and No. 10 Side Road/Winston Churchill Boulevard Realignment	Jacek Pawlus	Q4

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Review PC&E 2024 Capital Program

Legend

ND = Non Development Projects
(Region funded)

Dev = Development Projects
(Developer funded)

RFP Count	PR#	Project Type	Project Description	Project Manager	2024 Tender Quarter
1	PR-3480	WWT ND	Replacement of Dry Well Boiler System and Ventilation for Wet Well (Main Street PS)	Dan Di Tomasso	Q1
2	PR-3496	WWT ND	Campbellville Well - PLC Upgrades	Dan Di Tomasso	Q2
3	PR-3369	WWT ND	MH WWTP - Third Line PS and Inlet PS and Inlet Building Refurbishment	Dan Di Tomasso	Q2
4	PR-3486	WWT ND	Burlington Skyway WWTP - Chemical Systems (Ferric & Sodium Hypochlorite)	Dan Di Tomasso	Q2
5	PR-3493	WWT ND	Acton WWTP - Assessment and Implementation of Short-Term Asset Needs	Dan Di Tomasso	Q2
6	PR-3492	WT ND	Water Treatment - Emergency Chlorine Shut-off Valve Upgrades	Dan Di Tomasso	Q2
7	PR-3519	WWT DEV	Mid-Halton WWTP Expansion	Dan Di Tomasso	Q2
8	PR-3495	WWT ND	Oakville Southwest WWTP - Grit Pumps (1-2)	Dan Di Tomasso	Q3
9	PR-3499	WWT ND	Oakville Southeast WWTP - Odour Control Improvements	Dan Di Tomasso	Q3
10	PR-3497	WT ND	Burlington WTP - Wastewater Outfall Cleaning	Dan Di Tomasso	Q3
11	PR-3498	WT ND	Georgetown WTP - Laboratory Renovations	Dan Di Tomasso	Q3
12	PR-3490	WWT ND	Biosolids Management Centre - Control Panels & Structured Cabling Upgrade	Dan Di Tomasso	Q3
13	PR-3488	WWT ND	Mid-Halton WWTP - Primary Digester (No. 2) Rehabilitation & Mixing Upgrades	Dan Di Tomasso	Q3

*Design and Construction Assignments Only



General Project Timelines

Year 0

Year 1

Year 2

Year 3

Year 4

Year 5 +

Water/Wastewater SOGR (Non-Development)

Planning

Charter/RFP/Design Award

30% Design

60% Design

100% Design/Tender

Design

Substantial Performance

Construction

Road and Large Facility (Development)

Planning

Charter/RFP/Design Award

30% Design

60% Design

100% Design

Design

Permits

Land

Utilities

Tender

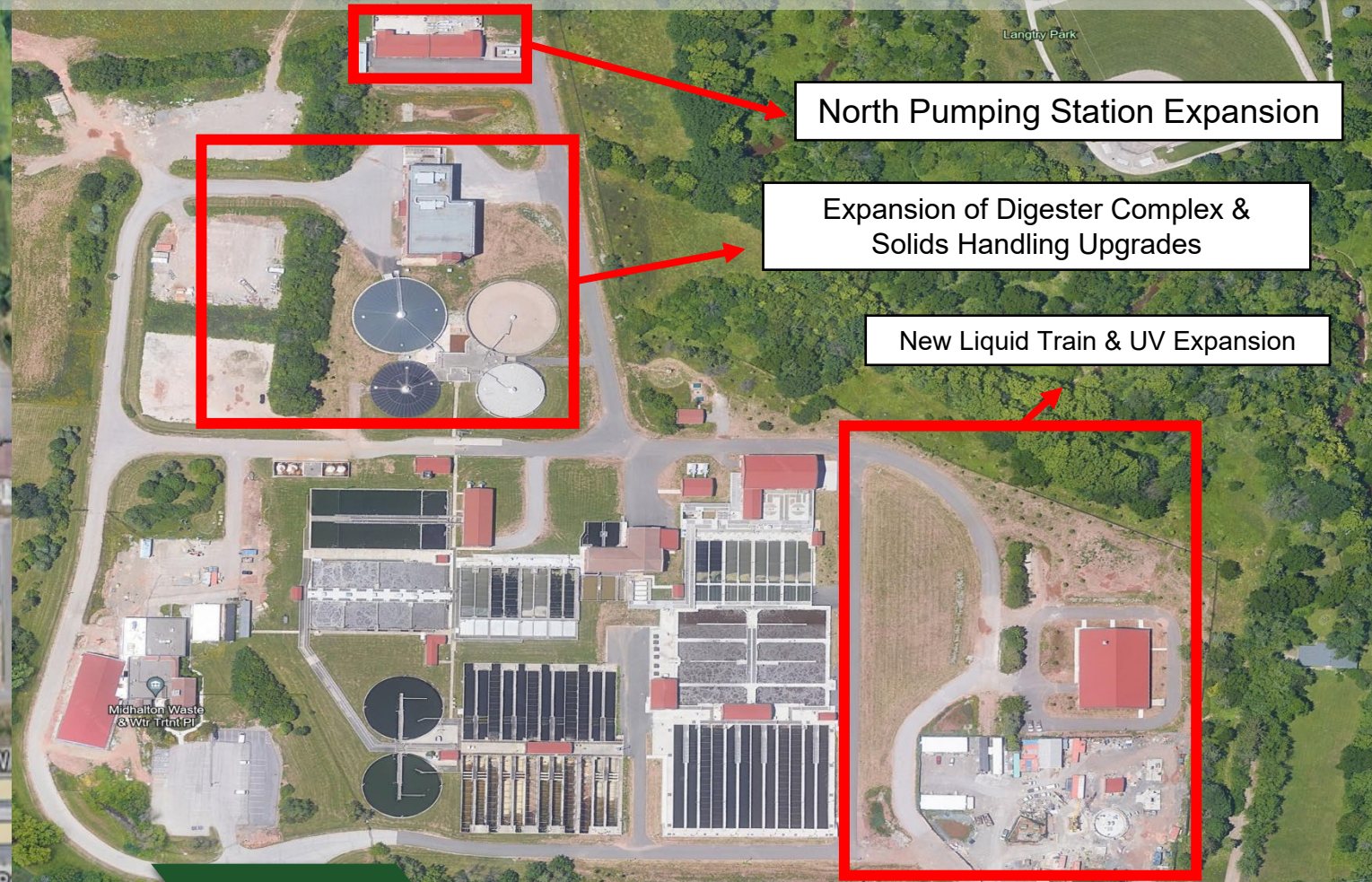
Substantial Performance

Construction

Project Highlights

Mid-Halton WWTP - Expansion

- PR-3519
- RFP Date: Q2 2024
- Description: Rated Capacity Expansion from 125 MLD to 175 MLD
- Key Items:
 - EA/Design/Construction bundled
- Budget:
 - Total - \$305M
 - Design - \$20M
 - Construction - \$285M



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Burloak WTP – Phase 2 Expansion

- PR-2581B
- RFP Date:
 - Q1 2024 [EA Amendment]
 - 2025 [Design and Construction]
- Description: Rated Capacity Expansion from 55 MLD to 165 MLD
- Key Items:
 - Particulate Removal (Membranes)
 - Residuals Management
- Budget:
 - Total - \$194.7M
 - Design - \$16.4M
 - Construction - \$178.3M

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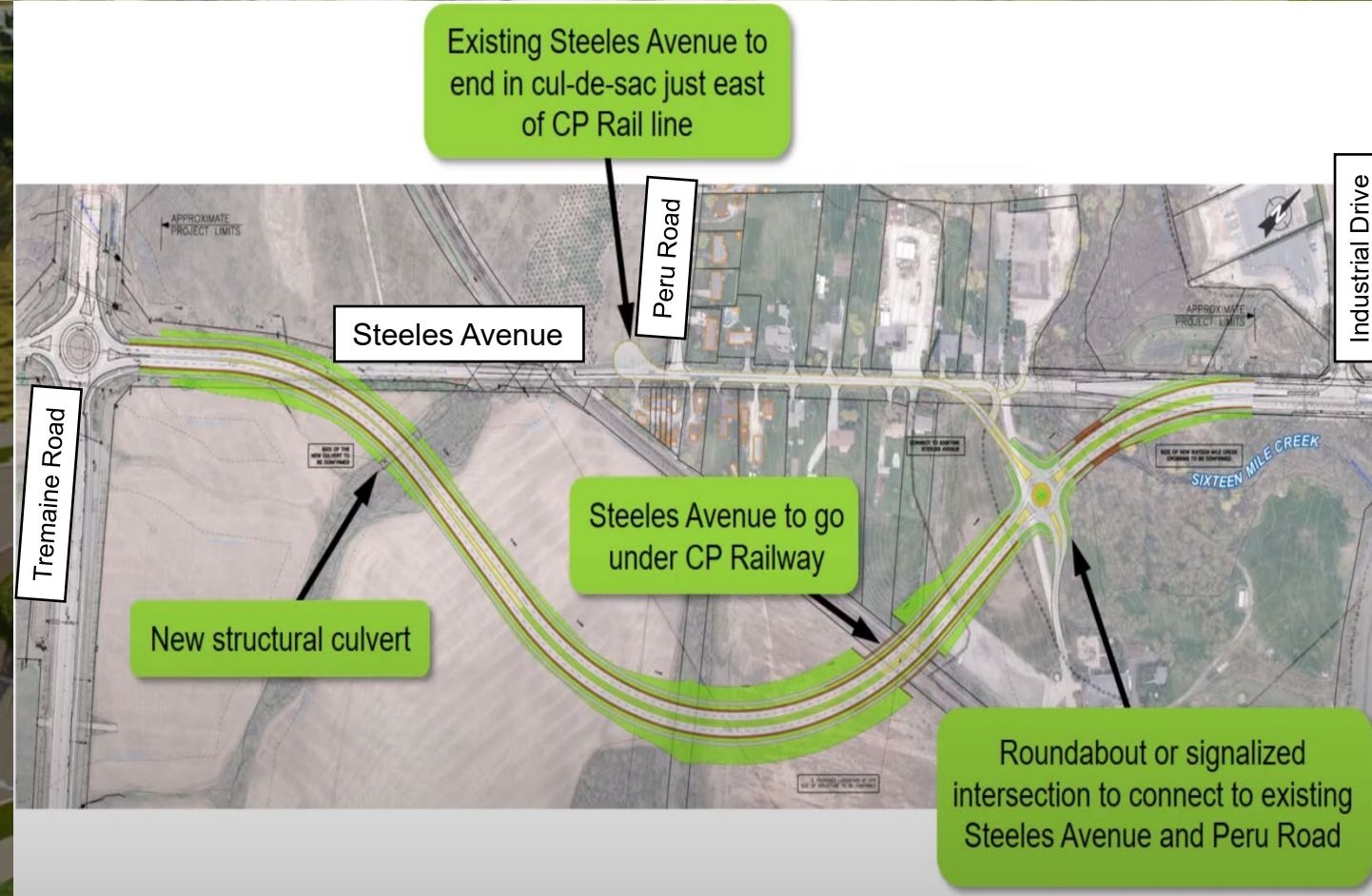
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Steeles Widening & Realignment

- PR-3131A/3145A
- RFP Date: Q2 2024
- Description: Steeles Widening From 2 to 4 Lanes & Realignment From Tremaine Rd to Industrial Dr
- Scope:
 - 2.5km of New Road, New Roundabout
 - CPR Grade Separation
 - Creek Crossing
- Budget:
 - Total - \$126.9M
 - Design - \$11.3M
 - Construction - \$115.61M



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Photo Rendering

Norval Bypass and WCB Realignment

- PR-2921B
- RFP Date: Q4 2024
- Description: Norval Bypass & WCB Roundabout/Realignment
- Scope:
 - 1.5km of New Road
 - New Roundabout
 - Active Transportation
- Budget:
 - Total - \$32.9M
 - Design - \$4.10M
 - Construction - \$28.8M



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WM/WWM to Lower Base Line PS

- PR-3515
- RFP Date: Q3 2024
- Description: Fourth Line/Fifth Line/Lower Base Line WM/WWM
Scope:
 - 12.3 km of 100-600mm DIA WM/WWM
- Budget:
 - Total - \$92.03M
 - Design - \$18.41M
 - Construction - \$73.62M



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Sixth Line WM

- PR-3516
- RFP Date: Q2 2024
- Description: WM on Sixth Line from South of Britannia Rd to Derry Road
- Scope:
 - 3.7 km of 400mm DIA WM
- Budget:
 - Total - \$12.1M
 - Design - \$2.42M
 - Construction - \$9.7M



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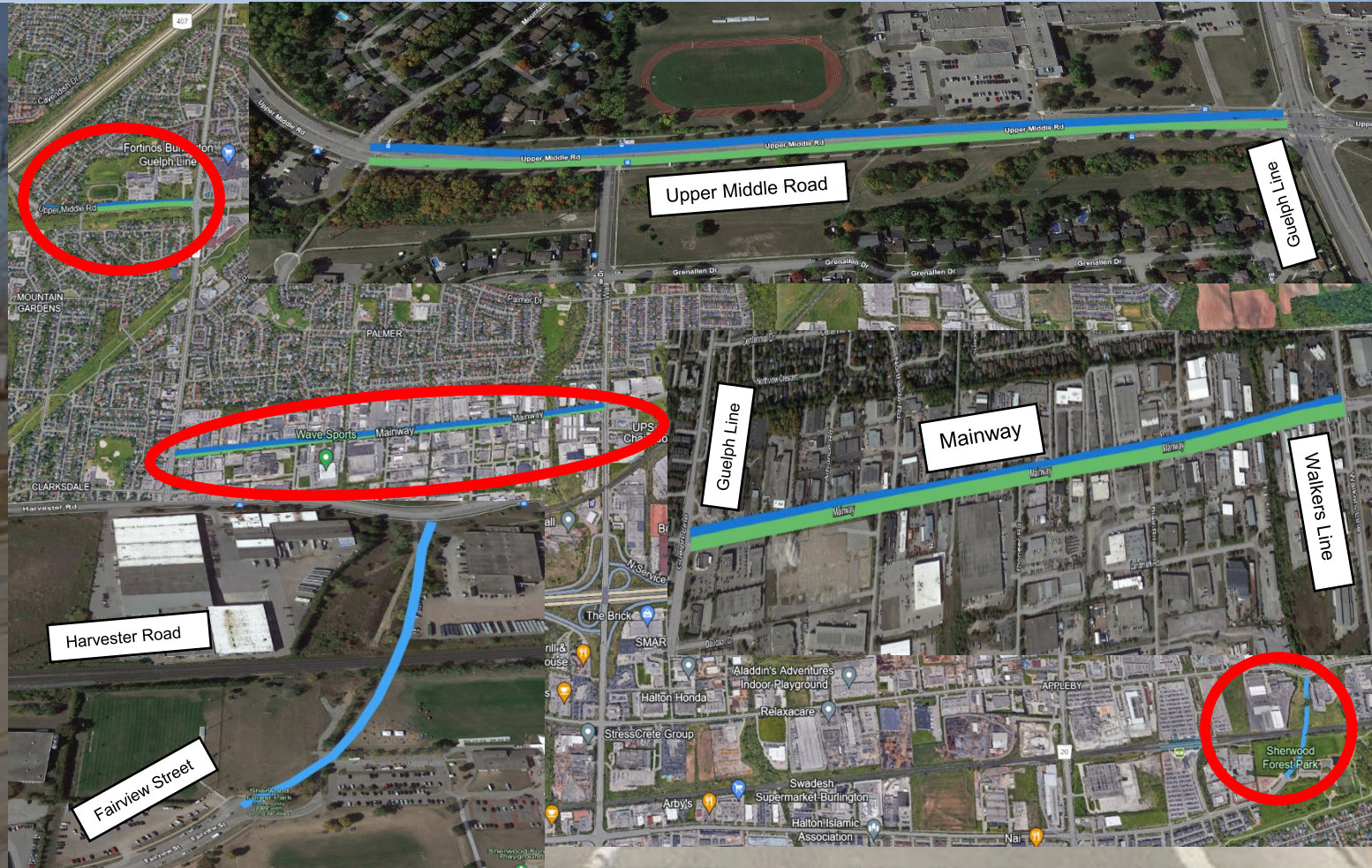
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Mainway/Upper Middle Road/Fairview WM/WWM

- PR-3476
- RFP Date: Q2 2024
- Description: WM/WWM on Mainway/Upper Middle Road/Fairview Street
- Key Items:
 - 5.8km of 250-600mm DIA WM/WWM
- Budget:
 - Total - \$33.57M
 - Design - \$4.83M
 - Construction - \$28.74M



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Southeast Oakville WM/WWM

- PR-3451
- RFP Date: Q2 2024
- Description: WM/WWM at various locations in SE Oakville
- Key Items:
 - 5.3 km of 150-400mm DIA WM/WWM
- Budget:
 - Total - \$28.28M
 - Design - \$3.31M
 - Construction - \$24.97M



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BREAK



Public Works Capital Projects List of 2024 Remaining RFPs

Legend	
W	Water (linear and vertical)
WW	Wastewater (linear and vertical)
R	Roads/Transportation
WT	Water Treatment
WWT	Wastewater Treatment

Asset Type	Anticipated RFP Date	Project Number	Short Project Description	City/Town	E&C or PC&E Section Manager	Total Approved Design & Construction Budget (\$M)
R	Q1	PR-3338C	Appleby Line Erosion at Culvert Headwall North of Highway 407	Burlington	Aaron Brouwers	\$ 0.80
WWT	Q1	PR-3480	Replacement of Dry Well Boiler System and Ventilation for Wet Well (Main St PS)	Halton Hills	Dan Di Tomasso	\$ 2.00
W / WW	Q2	PR-3476	WM/WWM on Mainway/Upper Middle Road/Fairview Street SOGR Grid	Burlington	Aaron Brouwers	\$ 33.57
W / WW	Q2	PR-3451	WM/WWM at Various Locations in Southeast Oakville	Oakville	Jacek Pawlus	\$ 28.28
W / WW	Q2	PR-3477	WM on Sinclair Avenue and WM/WWM on Commerce Crescent	Halton Hills	Aaron Brouwers	\$ 11.38
W / WW	Q2	PR- 3515	WWM/WM to Lower Base Line Pumping Station (South Britannia 1)	Milton	Jacek Pawlus	\$ 92.03
W	Q2	PR-3516	WM on Sixth Line, North and South of Britannia (North Britannia 1 Part 2)	Milton	Jacek Pawlus	\$ 12.12
WW	Q2	PR-3513	WWM on Oak Street and Childs Drive	Milton	Jacek Pawlus	\$ 2.53
R	Q2	PR-3131A/3145A	Steeles Widening and Realignment from Tremaine Road to Industrial Drive	Milton	Aaron Brouwers	\$ 126.90
R	Q2	PR-2889	Temporary Signals at Regional Road 25 and Henderson Road	Milton	Jacek Pawlus	\$ 0.78
R	Q2	PR-2889	Regional Road 25 at No. 22 Side Road New Signals Turning Lane Additions at the Intersection of Regional Road 25 & No. 17 Side road	Halton Hills	Chris Mills	\$ 2.70
R	Q2	PR-3342H	2026 Road Resurfacing program	Region Wide	Aaron Brouwers	\$ 14.05
R	Q2	PR-2888	Holgate Crescent and James Snow Parkway Intersection Improvement	Milton	Jacek Pawlus	\$ 0.60
R	Q2	PR3380E	Bridges and Culverts Program	Region Wide	Rick Ranalli	\$ 3.74
R	Q2	PR-3252/2662B	Noisewalls & Retaining Walls Program	Region Wide	Chris Mills	\$ 3.74
WWT	Q2	PR-3493	Acton WWTP - Assessment and Implementation of Short-Term Asset Needs	Halton Hills	Dan Di Tomasso	\$ 6.17
WWT	Q2	PR-3486	Burlington Skyway WWTP - Chemical Systems (Ferric & Sodium Hypochlorite)	Burlington	Dan Di Tomasso	\$ 1.66
WWT	Q2	PR-3369	Mid-Halton WWTP - Third Line PS and Inlet PS and Inlet Building Refurbishment	Oakville	Dan Di Tomasso	\$ 14.68
WWT	Q2	PR-3519	Mid-Halton WWTP Expansion	Oakville	Dan Di Tomasso	\$ 305.00
WT	Q2	PR-3492	Water Treatment - Emergency Chlorine Shut-off Valve Upgrades	Region Wide	Dan Di Tomasso	\$ 0.87
WT	Q2	PR-3496	Campbellville Well - PLC Upgrades	Milton	Dan Di Tomasso	\$ 0.72
W / WW	Q3	PR-TBC	WM/WWM on Derry Road and Eighth Line (Trafalgar/Agerton 2)	Milton	Chris Mills	\$ 46.90
R	Q3	PR-3508	Derry Road and Appleby Line Intersection Improvements	Burlington	Jacek Pawlus	\$ 4.00
WWT	Q3	PR-3490	Biosolids Management Centre - Control Panels and Structured Cabling Upgrade	Oakville	Dan Di Tomasso	\$ 3.18
WWT	Q3	PR-3488	Mid-Halton WWTP - Primary Digester (No. 2) Rehabilitation and Mixing Upgrades	Oakville	Dan Di Tomasso	\$ 5.79
WWT	Q3	PR-3495	Oakville Southwest WWTP - Grit Pumps (1-2)	Oakville	Dan Di Tomasso	\$ 0.97
WWT	Q3	PR-3499	Oakville Southeast WWTP - Odour Control Improvements (Design Only)	Oakville	Dan Di Tomasso	\$ 2.80
WT	Q3	PR-3497	Burlington WTP - Wastewater Outfall Cleaning	Burlington	Dan Di Tomasso	\$ 0.75
WT	Q3	PR-3498	Georgetown WTP - Laboratory Renovations	Halton Hills	Dan Di Tomasso	\$ 0.50
R / W	Q4	PR-2921B	Norval Bypass and No. 10 Side Road/Winston Churchill Boulevard Realignment	Halton Hills	Jacek Pawlus	\$ 32.90

Supply Chain Management - General Updates

Vendor Performance Management (VPM)

- Promote good and consistent performance of vendors
- Communicate what is important to the Region when doing business with us
- Establish a process to address concerns with vendor performance, including suspension for unacceptable performance
- Guidelines for fair, transparent and objective assessment of vendor performance
 - Phase 1: Currently Live for contractors
 - Phase 2: Consultants (timing TBD)



Supply Chain Management - General Updates

New Procurement By-Law

- Policy approach
- Efficiencies in processes

RFP Framework

- Changes in RFP Scoring Split
 - Greater emphasis on qualifications by changing the RFP Scoring Split for Qualitative/Cost Criteria (from 70/30 to 80/20)
- Support Development of Junior Staff (Under Development)
 - Points awarded for development of Junior Staff to support growth and development



Questions?

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