toronto south detention center

MORRISON HERSHFIELD

16 May 2012





design and planning:

zeidler

Alan Munn Senior Partner of Zeidler Partnership Architects

designing for LEED / Sustainability:

Susan Kapetanovic-Marr

Sustainability specialist - buildings, technology and energy division of Morrison Hershfield





consortium and DBFM (Design Build Finance Maintain): Michael Sullivan

Director, Equity Services of EllisDon Corporation

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construction and design build issues:



Director, Special Projects of EllisDon Corporation





toronto south detention center project co team



Integrated Team Solutions

EllisDon Corporation EllisDon Inc. Fengate Capital Johnson Controls Zeidler Partnership Architects Stephenson Engineering Smith and Andersen Crossey Engineering Ltd. Strybos Barron King Ltd. Morrison Hershfield Municipal Infrastructure Group AECOM Vipond Nadine International

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awards for the toronto south detention center

The AIA Academy of Architecture for Justice Justice Facilities Review 2012 Award of Excellence - Merit

- 1. project descriptive data
- 2. narrative of project program
- 3. greatest challenges
- 4. notable features
- 5. thought leadership category
- 6. descriptive data
- 7. supplementary data
 - LEED

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- special demands new technologies or materials
- new or experimental programming
- new or experimental design
- special circumstances
- top three design features
- specific features



design and planning:

Alan Munn Senior Partner of Zeidler Partnership Architects





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aging toronto corrections facilities to be replaced by TSDC

Mimico Correctional Center



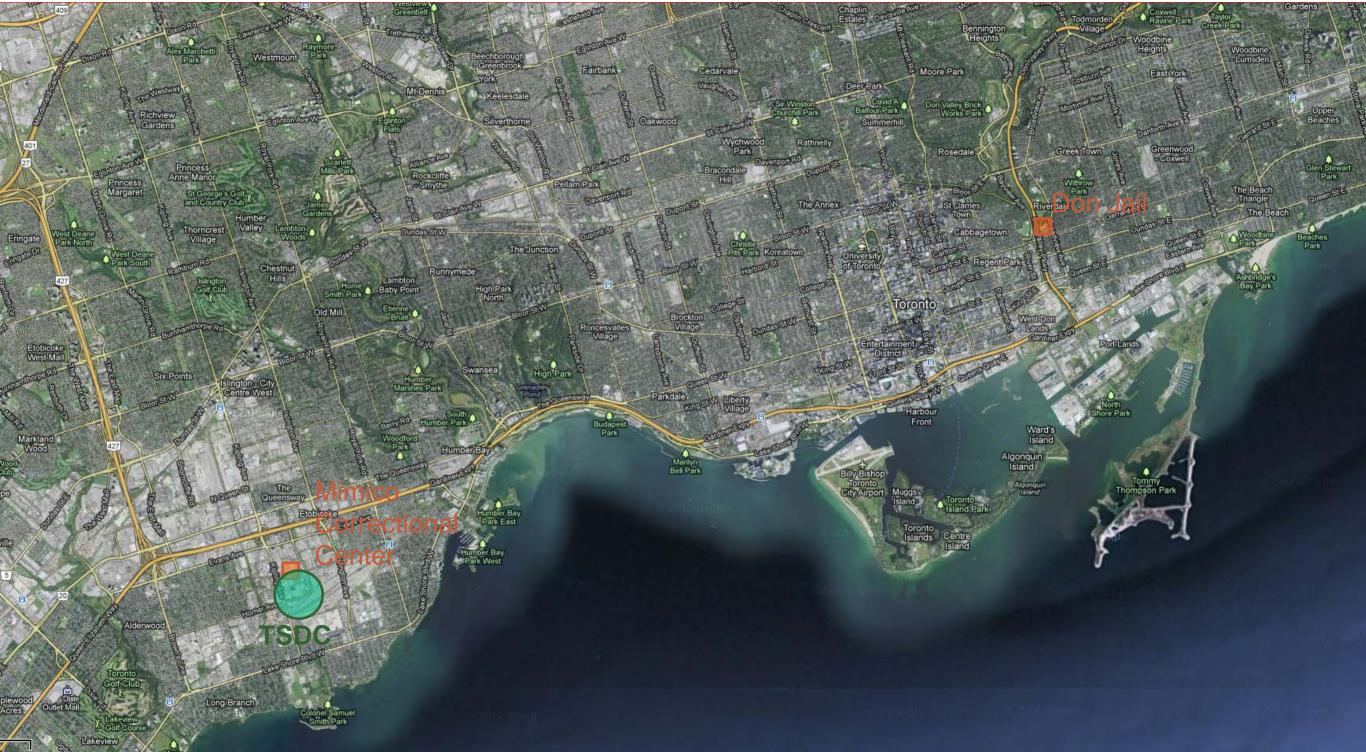


Don Jail





location of facilities in toronto





site previous to construction



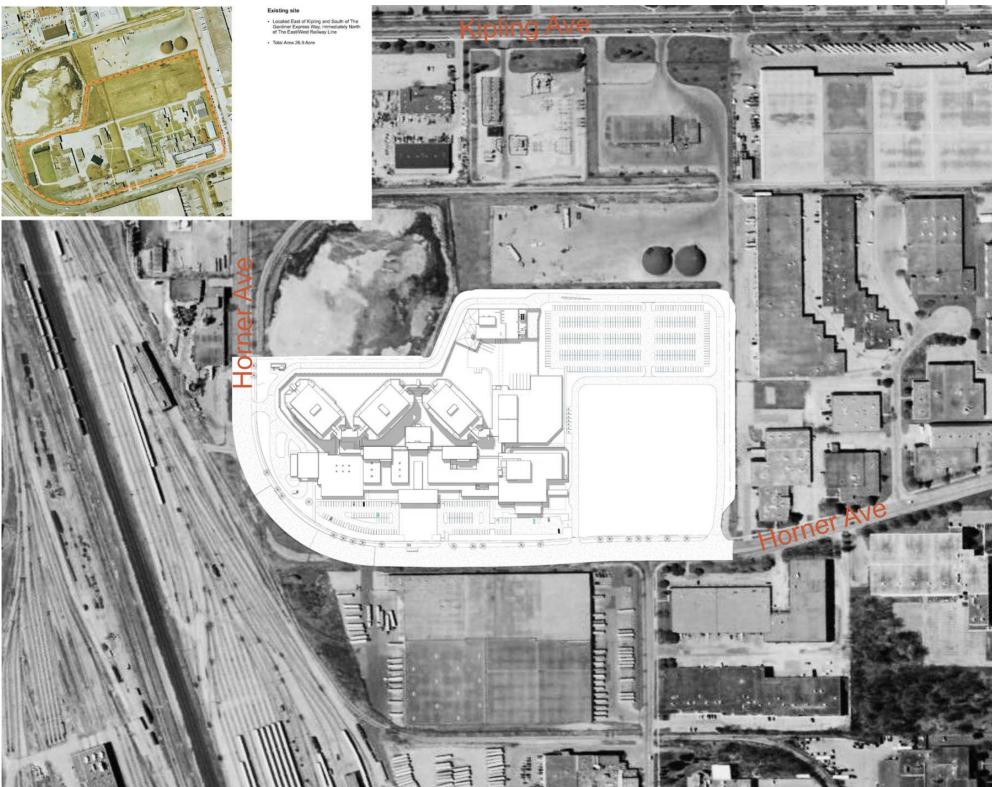


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Integrated Team Solutions

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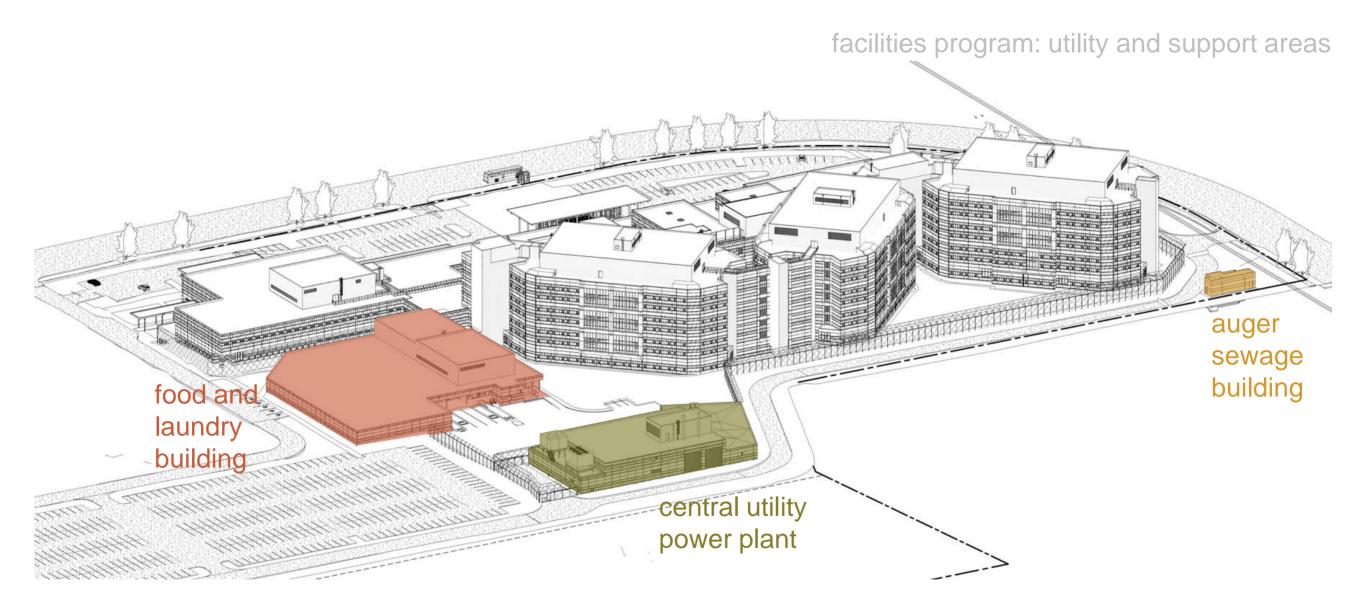
site plan





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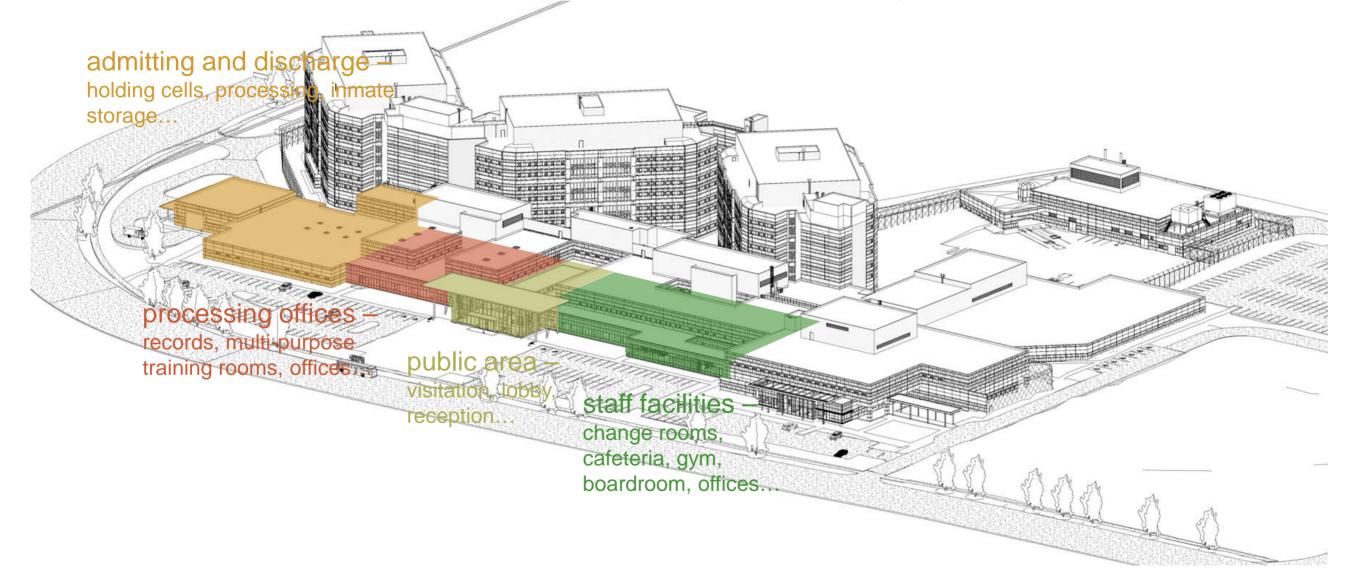




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facilities program: administration area (level one)

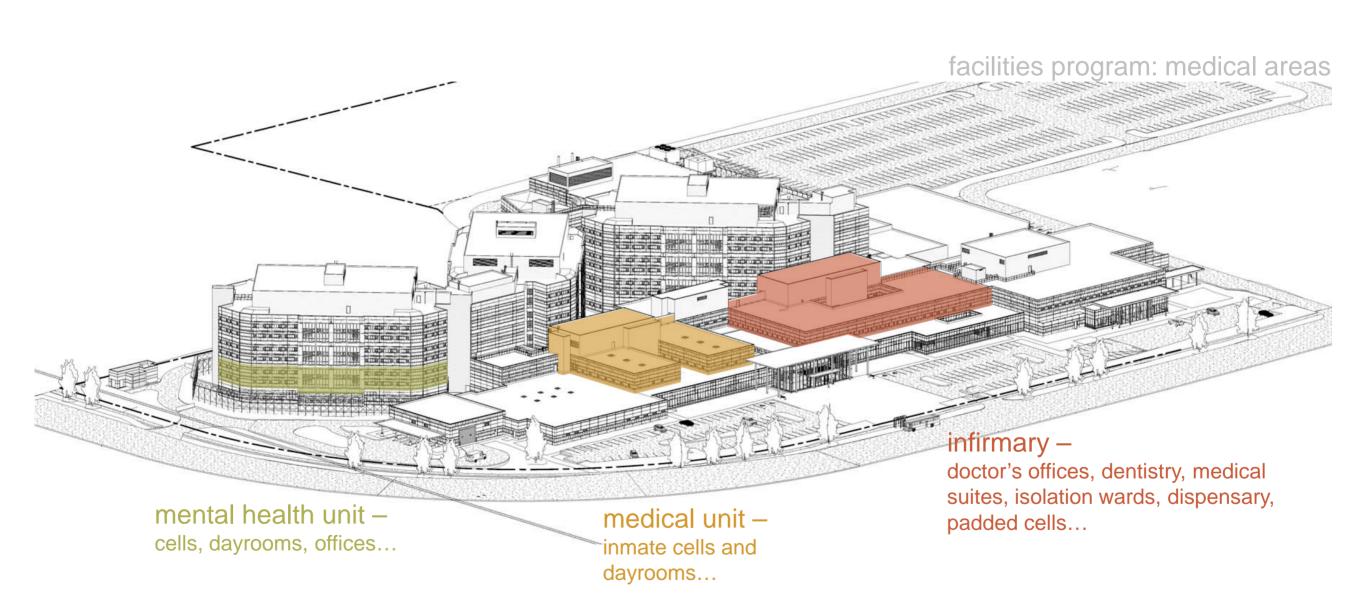


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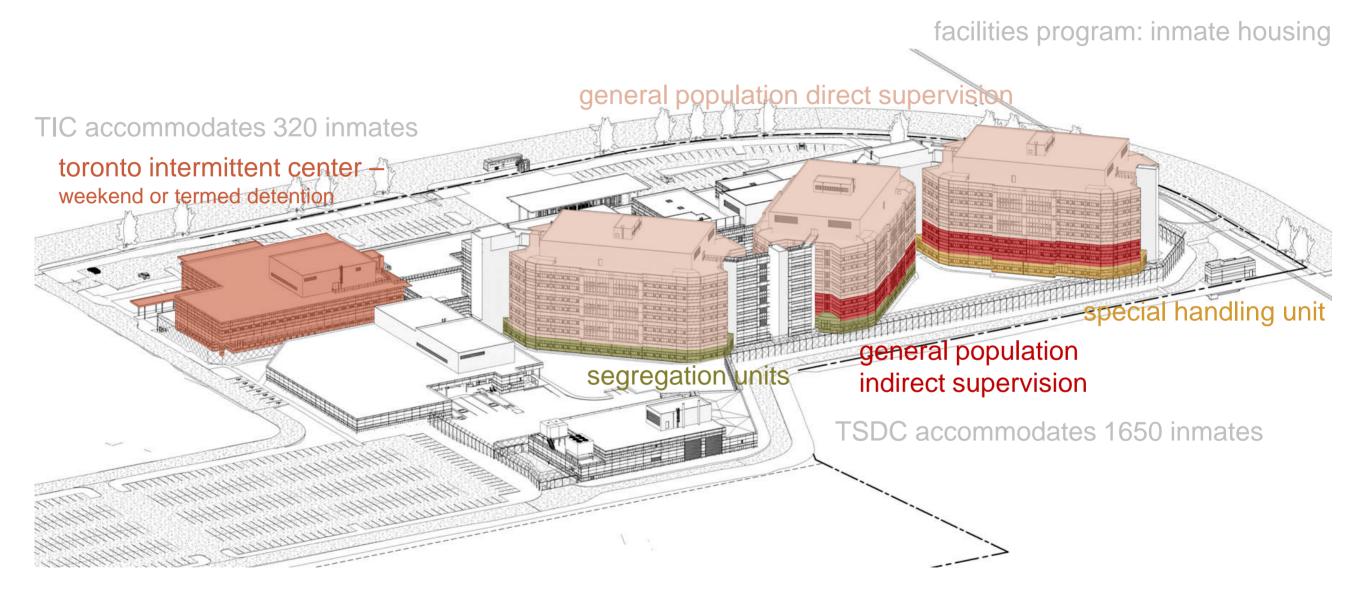


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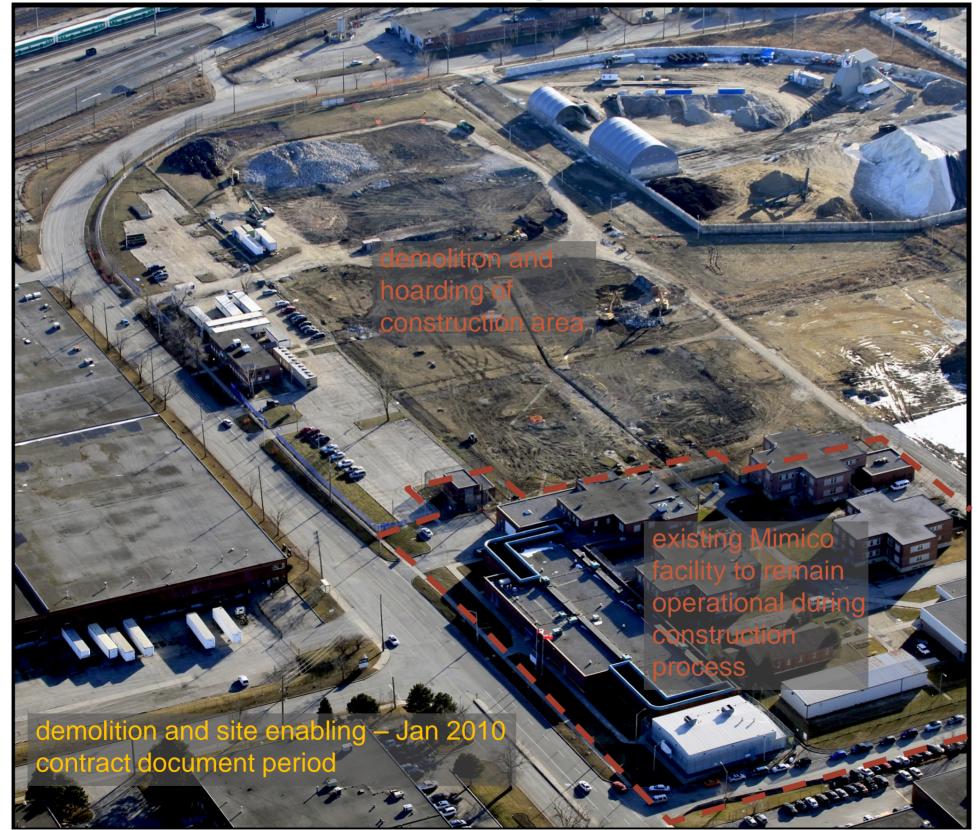
demanding RFP construction timeline schedule



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demanding RFP construction timeline schedule

toronto south de

demanding RFP construction timeline schedule







demanding RFP construction timeline schedule





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precast cell construction was chosen at an early stage to meet the demanding needs of the scheduled timeline





controlled factory manufacturing ensured timely delivery and quality of finish that would have been difficult to achieve in the field

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requirements in the RFP and precast cell construction produced three notable challenges in the design of the TSDC





design challenge one: uniformity of stacking precast cells versus complex programming of departments in the RFP



62'-4%" [19000 mm. 61'-11%s* [18873 mm.]

58'-6'X4" [17848 m

4"-3%" [15000 mm.

37-4% [12000 mm.] 38'-11%" [11874 mm.]

25'-2"%s" (8000 mm)

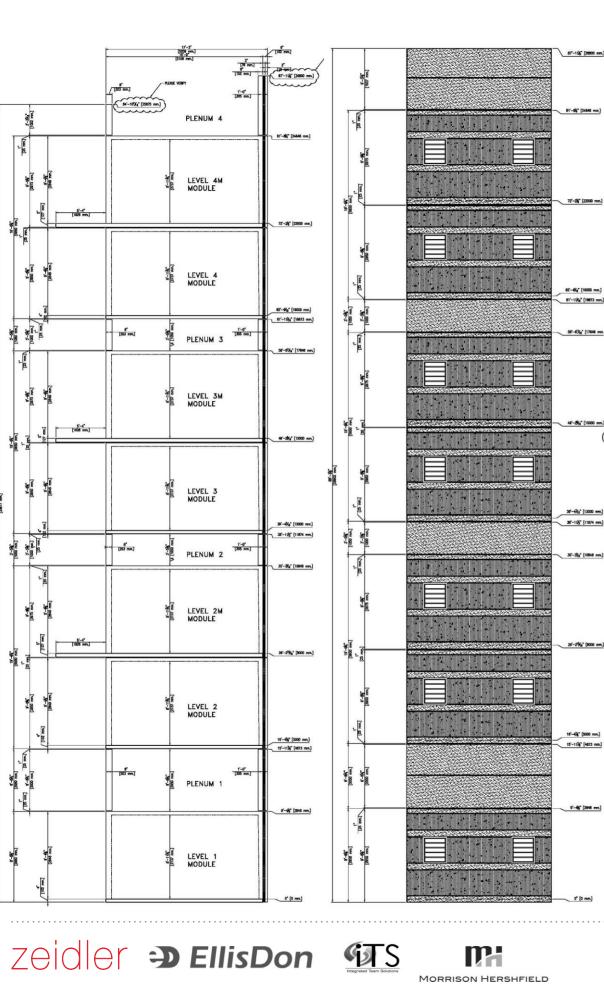
15-4% [5000 mm.]

15'-11%" [4873 mm

1-46" [2848 mm

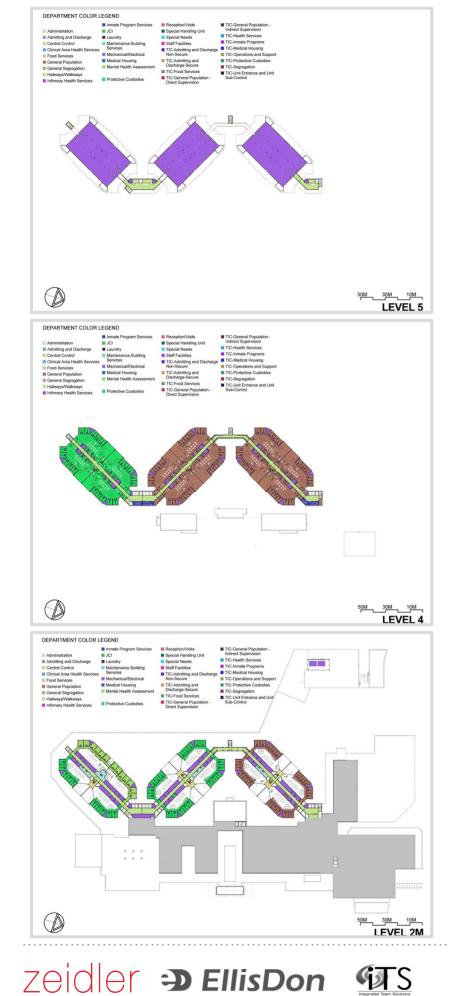
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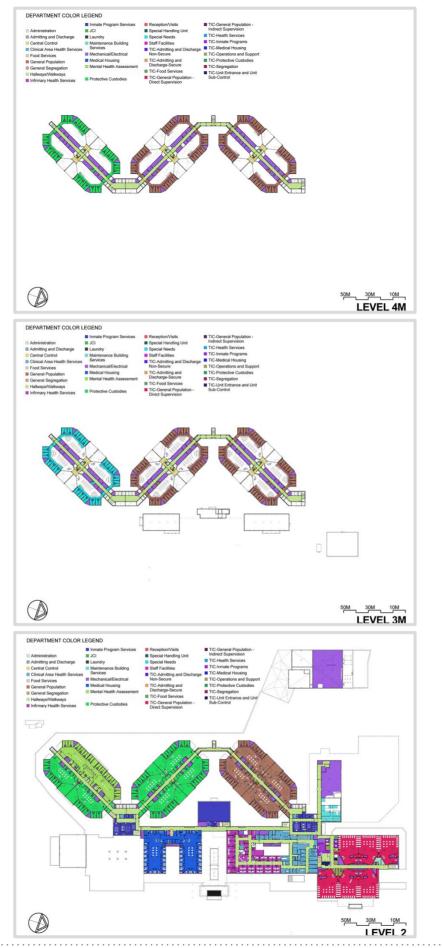




86'-2'Xa"

20 mm

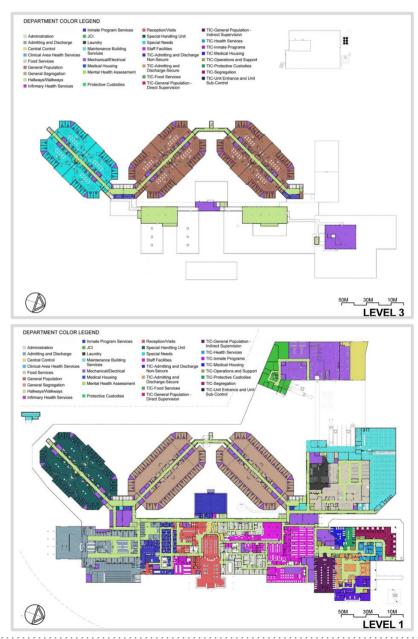




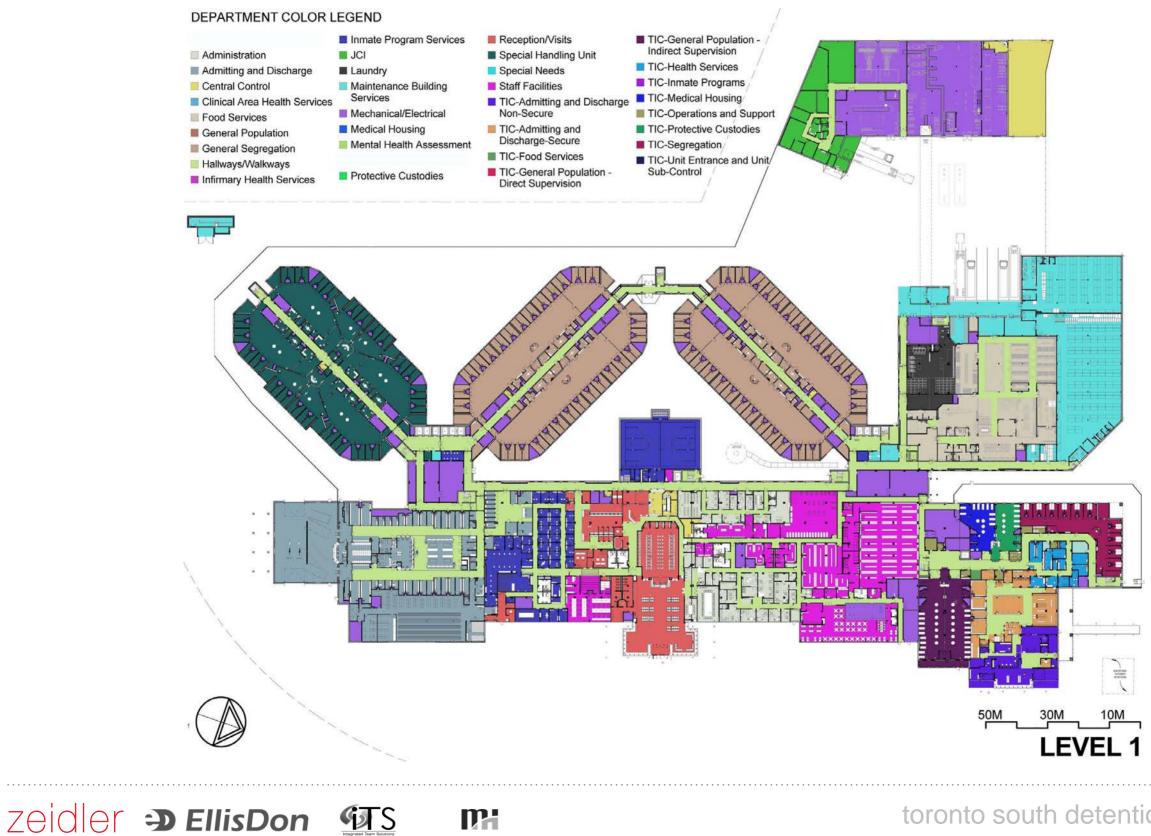
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design challenge one:

uniformity of stacking precast cells versus complex programming of departments in the RFP



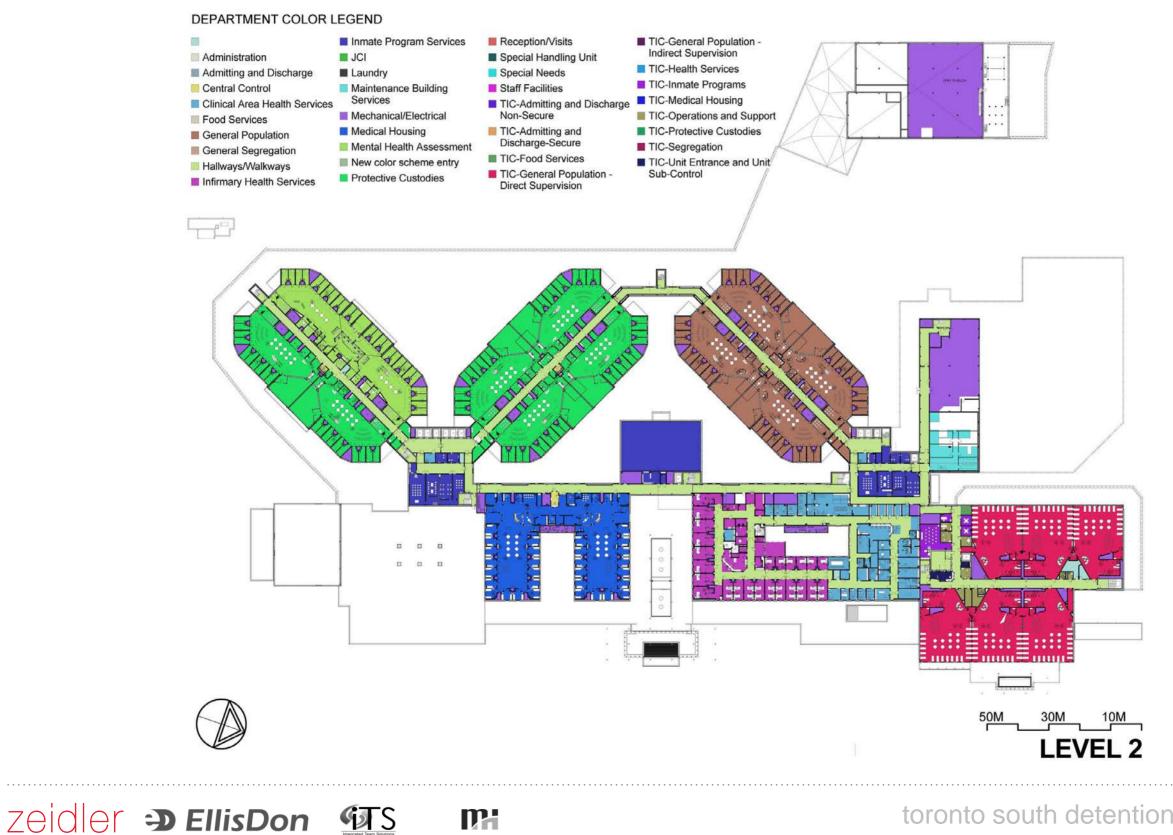
uniformity of stacking precast cells versus complex programming of departments in the RFP



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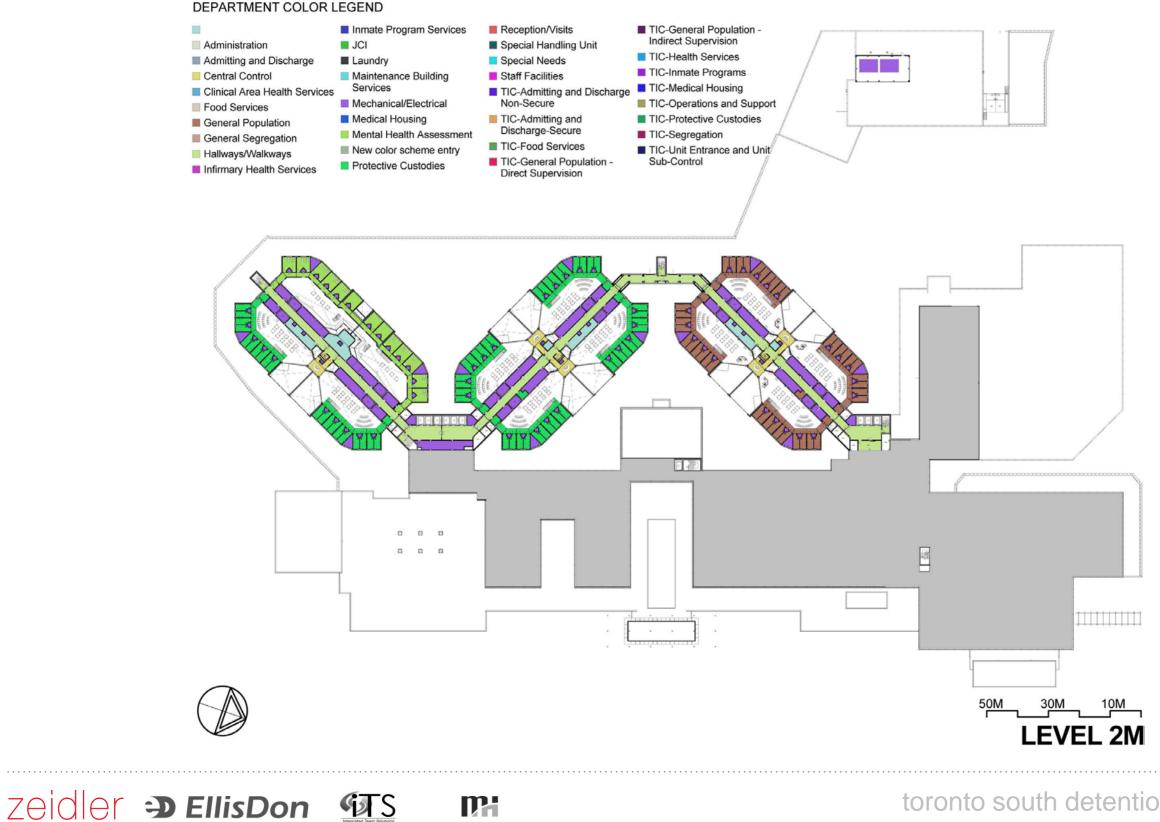
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uniformity of stacking precast cells versus complex programming of departments in the RFP



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uniformity of stacking precast cells versus complex programming of departments in the RFP



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uniformity of stacking precast cells versus complex programming of departments in the RFP

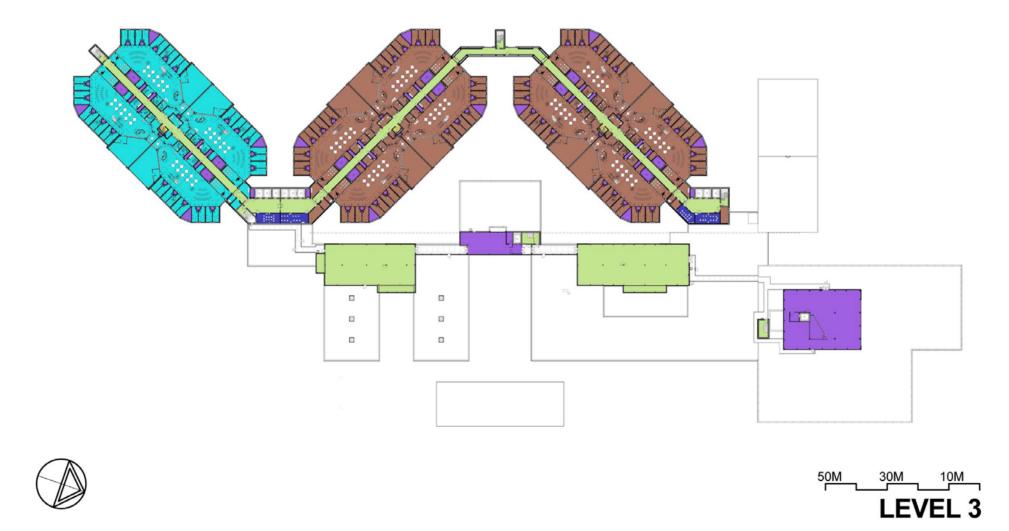
DEPARTMENT COLOR LEGEND

zeidler **⇒** EllisDon

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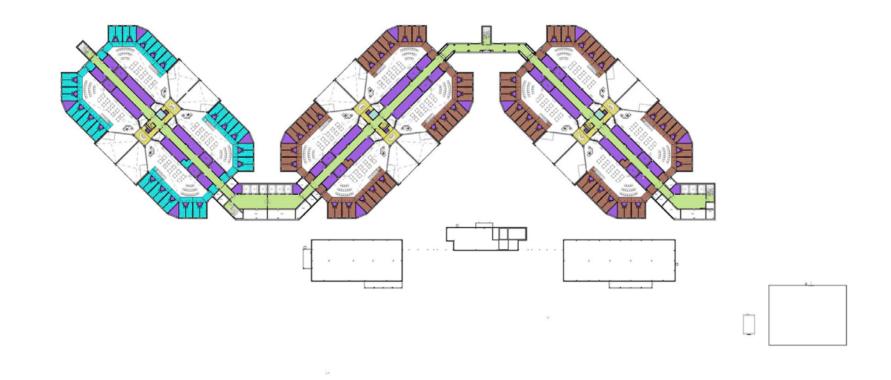
Administration JCI Special Handling Unit Indirect Supervision Admitting and Discharge Laundry Special Needs TIC-Health Services Central Control Maintenance Building Services Staff Facilities TIC-Inmate Programs Clinical Area Health Services Mechanical/Electrical Non-Secure TIC-Operations and Support General Population Medical Housing TIC-Admitting and Discharge-Secure TIC-Protective Custodies Hallways/Walkways New color scheme entry New color scheme entry TIC-General Population - TIC-Unit Entrance and Unit Sub-Control	
Hallways/Walkways	



uniformity of stacking precast cells versus complex programming of departments in the RFP

DEPARTMENT COLOR LEGEND

• • • • • • • • • • • • • • • • • • •	Inmate Program Services	Reception/Visits	TIC-General Population -
Administration	JCI	Special Handling Unit	Indirect Supervision
Admitting and Discharge	Laundry	Special Needs	TIC-Health Services
Central Control	Maintenance Building	Staff Facilities	TIC-Inmate Programs
Clinical Area Health Services	Services	TIC-Admitting and Discharge	TIC-Medical Housing
Food Services	Mechanical/Electrical	Non-Secure	TIC-Operations and Support
General Population	Medical Housing	TIC-Admitting and	TIC-Protective Custodies
General Segregation	Mental Health Assessment	Discharge-Secure	TIC-Segregation
Hallways/Walkways	New color scheme entry	TIC-Food Services	TIC-Unit Entrance and Unit
Infirmary Health Services	Protective Custodies	TIC-General Population - Direct Supervision	Sub-Control





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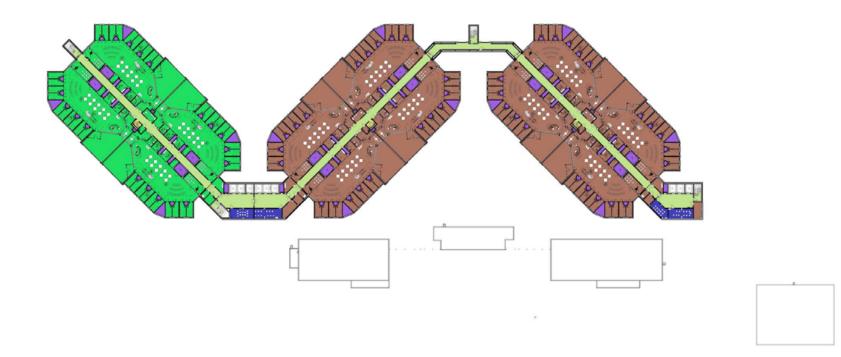
toronto south detention center

LEVEL 3M

uniformity of stacking precast cells versus complex programming of departments in the RFP

DEPARTMENT COLOR LEGEND

 Administration Admitting and Discharge Central Control Clinical Area Health Services Food Services General Population General Segregation Hallways/Walkways Infirmary Health Services 	 Inmate Program Services JCI Laundry Maintenance Building Services Mechanical/Electrical Medical Housing Mental Health Assessment New color scheme entry Protective Custodies 	 Reception/Visits Special Handling Unit Special Needs Staff Facilities TIC-Admitting and Discharge Non-Secure TIC-Admitting and Discharge-Secure TIC-Food Services TIC-General Population - Direct Supervision 	 TIC-General Population - Indirect Supervision TIC-Health Services TIC-Inmate Programs TIC-Medical Housing TIC-Operations and Support TIC-Protective Custodies TIC-Segregation TIC-Unit Entrance and Unit Sub-Control
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GITS

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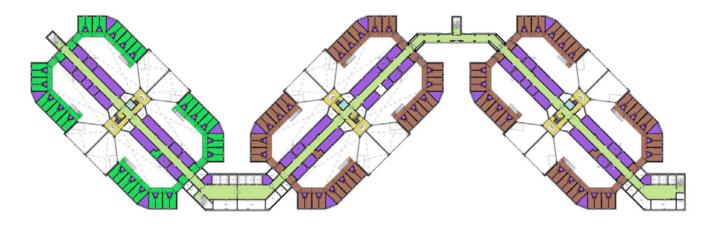
zeidler **DellisDon**



uniformity of stacking precast cells versus complex programming of departments in the RFP

DEPARTMENT COLOR LEGEND

 Administration Admitting and Discharge Central Control Clinical Area Health Services Food Services General Population General Segregation Hallways/Walkways Infirmary Health Services 	 Inmate Program Services JCI Laundry Maintenance Building Services Mechanical/Electrical Medical Housing Mental Health Assessment New color scheme entry Protective Custodies 	 Reception/Visits Special Handling Unit Special Needs Staff Facilities TIC-Admitting and Discharge Non-Secure TIC-Admitting and Discharge-Secure TIC-Food Services TIC-General Population - Direct Supervision 	 TIC-General Population - Indirect Supervision TIC-Health Services TIC-Inmate Programs TIC-Medical Housing TIC-Operations and Support TIC-Protective Custodies TIC-Segregation TIC-Unit Entrance and Unit Sub-Control
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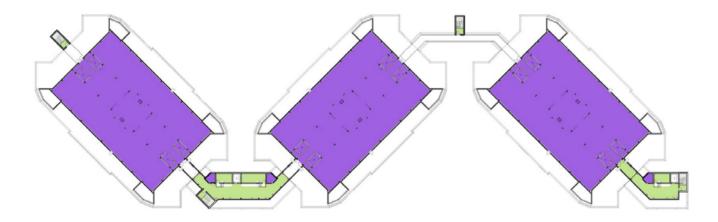
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uniformity of stacking precast cells versus complex programming of departments in the RFP

DEPARTMENT COLOR LEGEND

	Inmate Program Services	Reception/Visits	TIC-General Population -
Administration	JCI	Special Handling Unit	Indirect Supervision
Admitting and Discharge	Laundry	Special Needs	TIC-Health Services
Central Control	Maintenance Building	Staff Facilities	TIC-Inmate Programs
Clinical Area Health Services	Services	TIC-Admitting and Discharge	TIC-Medical Housing
Food Services	Mechanical/Electrical	Non-Secure	TIC-Operations and Support
General Population	Medical Housing	TIC-Admitting and	TIC-Protective Custodies
General Segregation	Mental Health Assessment	Discharge-Secure	TIC-Segregation
Hallways/Walkways	New color scheme entry	TIC-Food Services	TIC-Unit Entrance and Unit
Infirmary Health Services	Protective Custodies	TIC-General Population - Direct Operation	Sub-Control
		Direct Supervision	

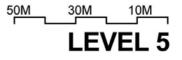




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RFP required that no ramps or sloped floors are to be in the TSDC for the ease of cart movement design challenge

two: conflicting height requirements between precast cells, RFP demands and mechanical



RFP required all ceiling heights of corridors and rooms in the facility to be 2.4m or higher

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RFP required all guard monitor posts in the facility to be no higher than 3.2m above finish floor to aid sight lines as well as no horizontally obstructed views to inmate common spaces

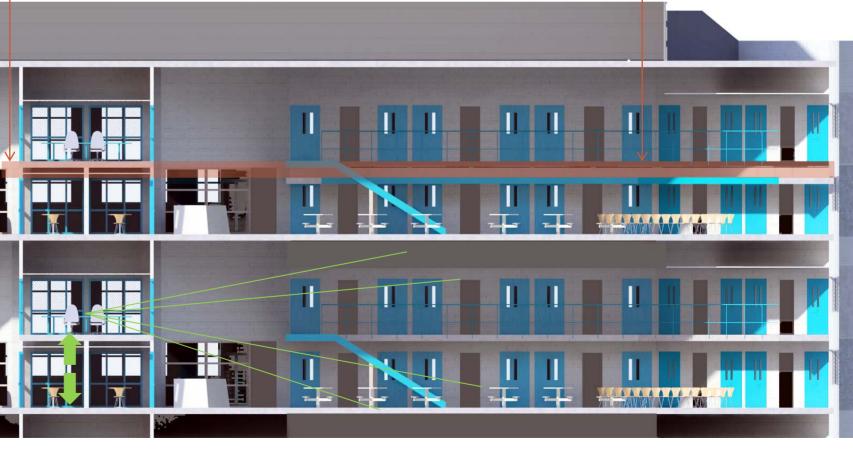
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height of precast cell limited to 3m due to transport requirements

> hence no interstitial space could be introduced– between mezzanine levels of precast cells to service mechanical utilities without raising control post levels, lowering ceiling heights or introducing ramps/raised floors



design challenge

two: conflicting height requirements between precast cells, RFP demands and mechanical

design challenge

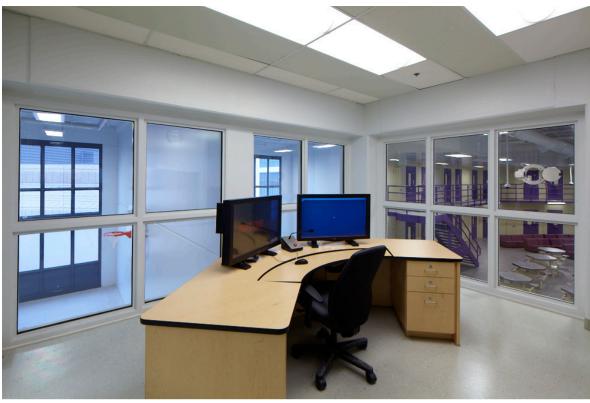
two: conflicting height requirements between precast cells, RFP demands and mechanical



guard station view of general population units: 3m above dayroom , horizontal obstruction free into four main common spaces from one position

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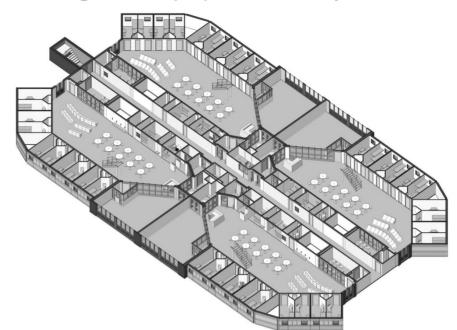
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general population unit control room

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general population dayroom unit images

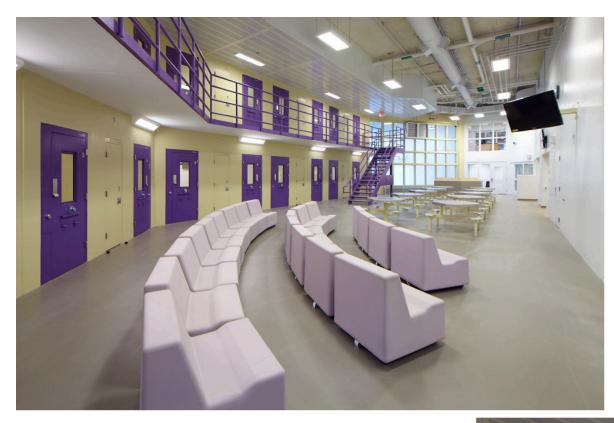




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general population dayroom unit images



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design challenge

two: conflicting height requirements between precast cells, RFP demands and mechanical



guard station view of special handling units: horizontal obstruction free into four dayrooms from one position

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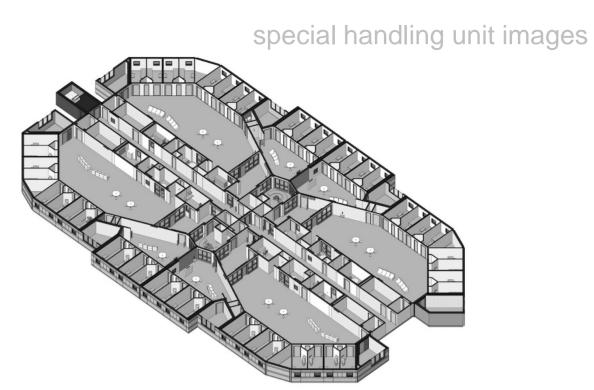


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special handling unit control room

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special handling unit images



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design challenge

two: conflicting height requirements between precast cells, RFP demands and mechanical



guard station view of segregation units:

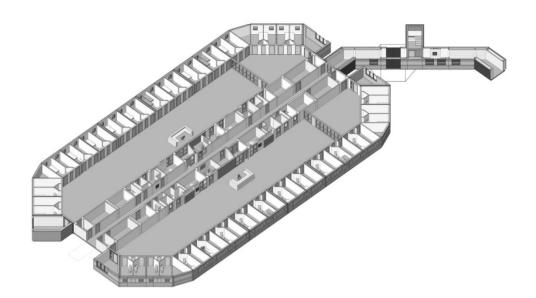
horizontal obstruction free at base of towers, column free, all loads transferred to perimeter

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segregation unit images









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segregation unit images







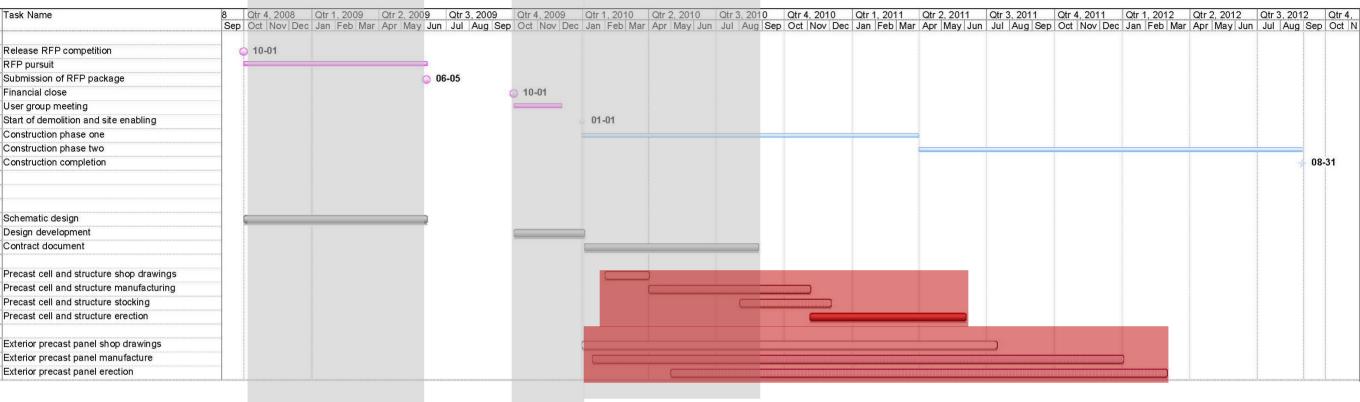
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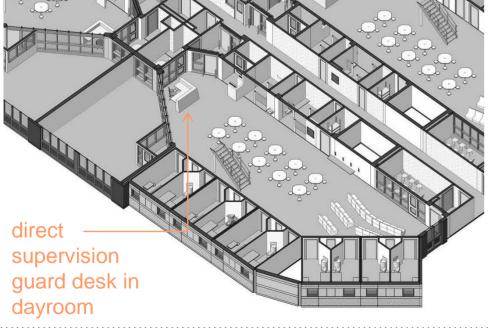
design challenge three:

early coordination of precast manufacturing

schematic design contract document design

____development





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overlap of precast coordination time required prior to the completion of working drawings

precast members are difficult to alter on site all mechanical and electrical requirements had to be coordinated prior to manufacture and completion of construction documents. general population dayrooms in the TSDC were designed to allow for interchange between direct and indirect supervision as required in the RFP

the design response to the requirements in the RFP and construction challenges produced **notable features** in this facility





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the choice to utilize precast for interior structure as well as exterior shell to accelerate construction timeline provided opportunities to enrich the exterior design with little added extra cost





traditional CMU cavity wall construction at the Central Ontario North Correctional Centre, Penetanguishene





the choice to utilize precast for interior structure as well as exterior shell to accelerate construction timeline provided opportunities to enrich the exterior design with little added extra cost





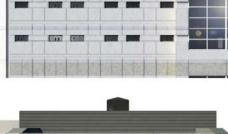








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the choice to utilize precast for interior structure as well as exterior shell to accelerate construction timeline provided opportunities to enrich the exterior design with little added extra cost



exterior precast provided an opportunity to change colours and manipulate tones with shadows and textures on the surfaces by altering form liners

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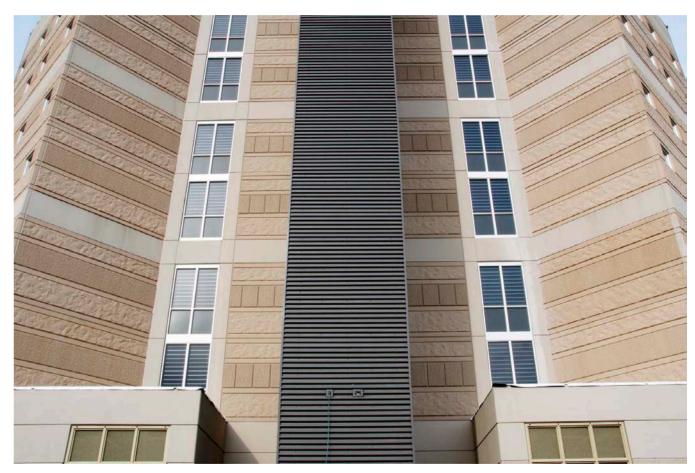








the choice to utilize precast for interior structure as well as exterior shell to accelerate construction timeline provided opportunities to enrich the exterior design with little added extra cost





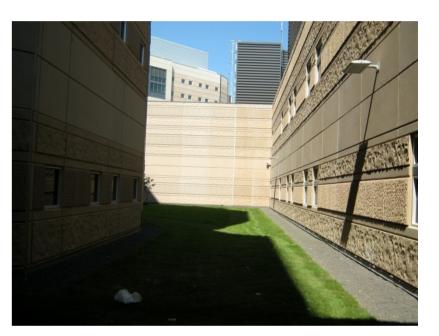


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the choice to utilize precast for interior structure as well as exterior shell to accelerate construction timeline provided opportunities to enrich the exterior design with little added extra cost







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notable feature two:

the RFP and precast limitations in "design challenge two" required a delicate balance in tower design

precast cells were designed and constructed to a maximum 3m high transport limit, resulting in a spacious 2.7m high inmate cell ceiling



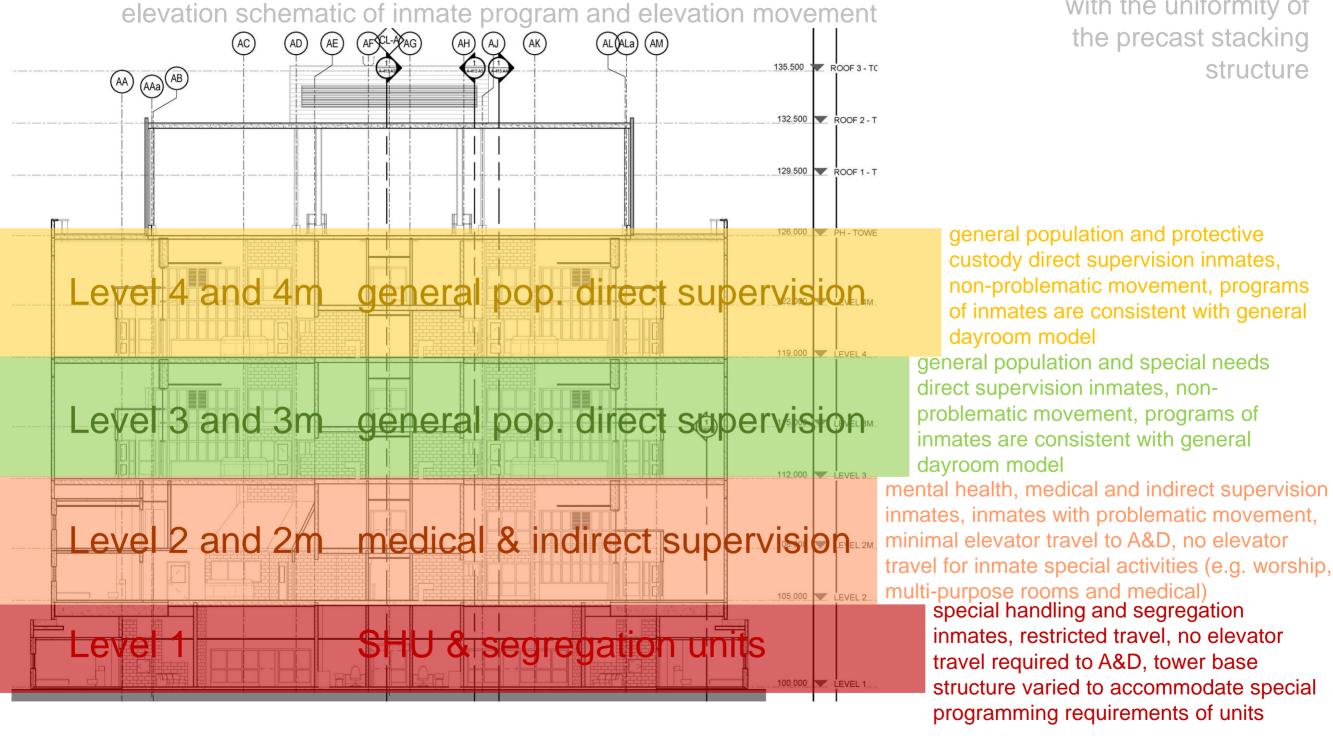




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complex inmate program and movement in the facility were integrated with the uniformity of the precast stacking structure

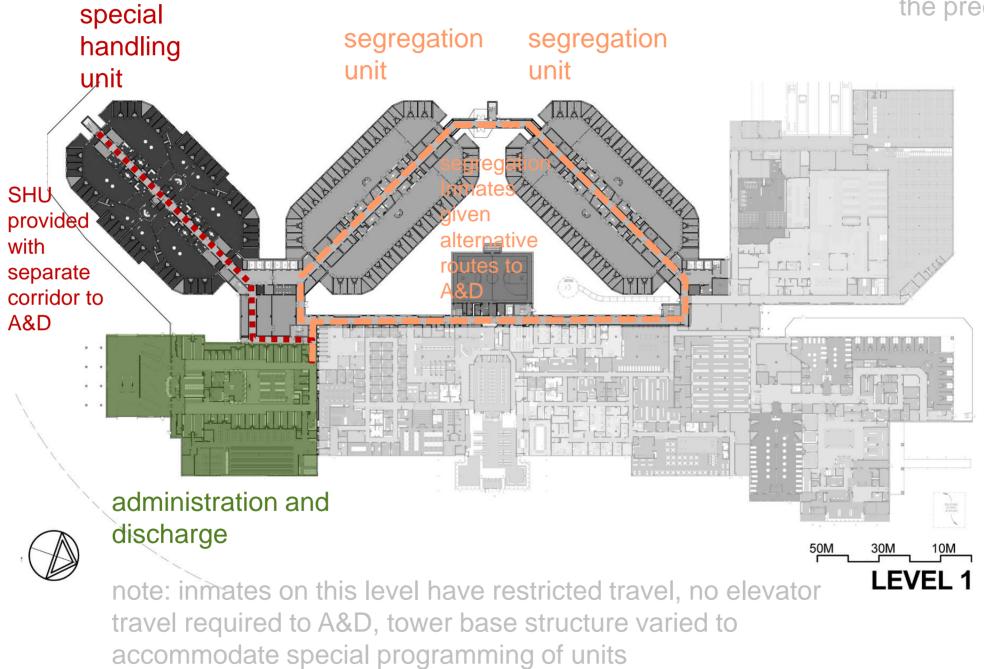


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complex inmate program and movement in the facility were integrated with the uniformity of the precast stacking structure

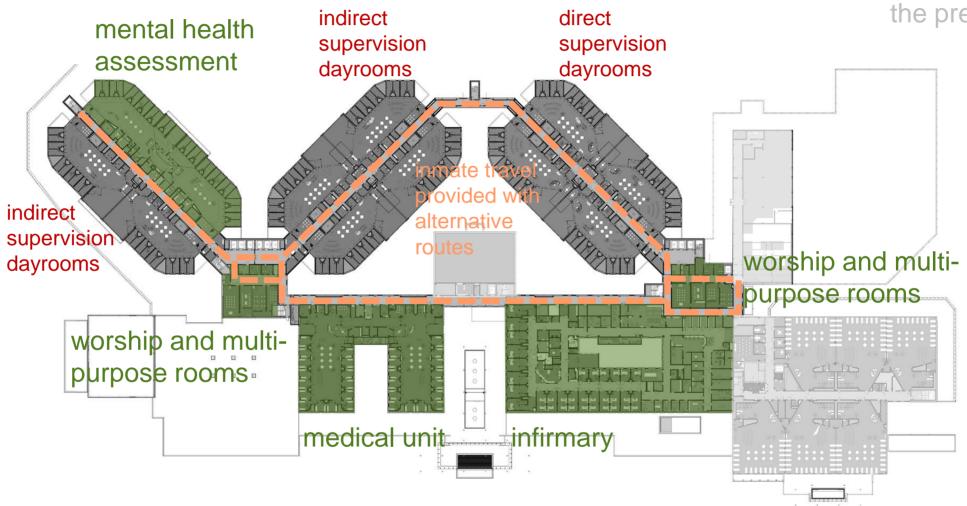


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complex inmate program and movement in the facility were integrated with the uniformity of the precast stacking structure



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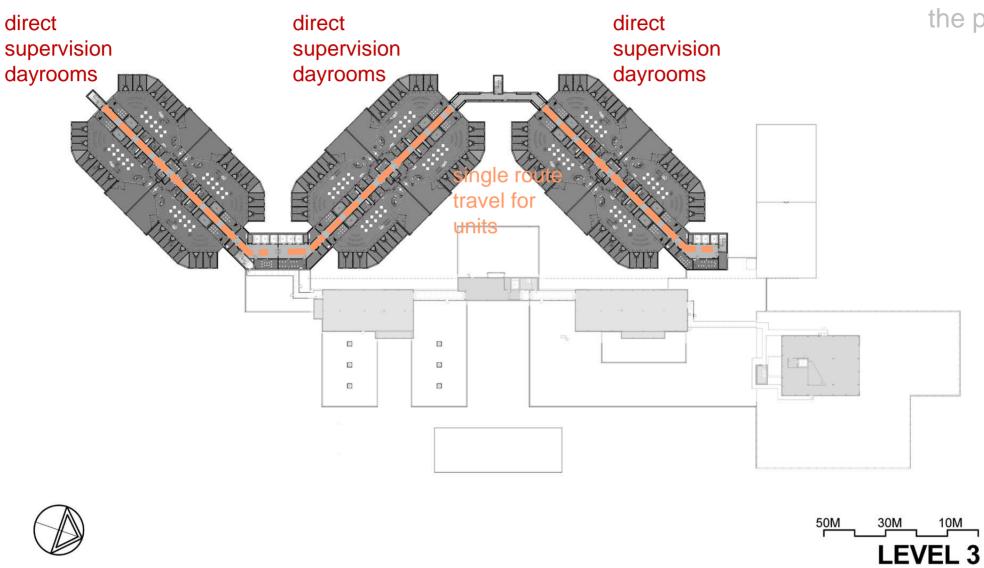
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note: problematic movement of inmates on this level, no elevator travel required to inmate special activities area such as classrooms, worship centers or medical, elevator travel for inmates in these units are the shortest to A&D



complex inmate program and movement in the facility were integrated with the uniformity of the precast stacking structure



note: levels 3 and 4 have consistent programming

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mental health unit images







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infirmary unit images





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speed and efficiency of precast construction



TORONTO SOUTH DETENTION CENTRE JULY 27, 2011



TORONTO SOUTH DETENTION CENTRE April 30, 2011





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in a period of seven months, with a small crew of approximately six men, three eight-storey towers were erected out of precast



TORONTO SOUTH DETENTION CENTRE vember 1, 2010

TORONTO SOUTH DETENTION CENTRE January 30, 2011



speed and efficiency of precast construction



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TORONTO SOUTH DETENTION CENTRE November 1, 2010

speed and efficiency of precast construction



TORONTO SOUTH DETENTION CENTRE January 30, 2011



notable feature four: speed and efficiency of precast construction



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TORONTO SOUTH DETENTION CENTRE April 30, 2011



speed and efficiency of precast construction

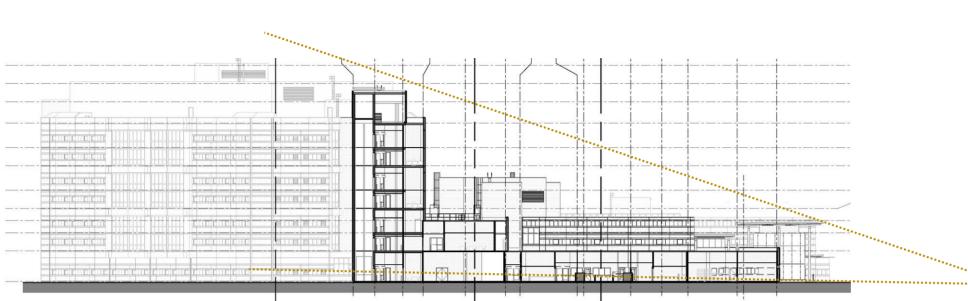


TORONTO SOUTH DETENTION CENTRE JULY 27, 2011



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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

building mass reduced in appearance by stepping back the building at street frontage

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use of non-traditional materials for detention facilities

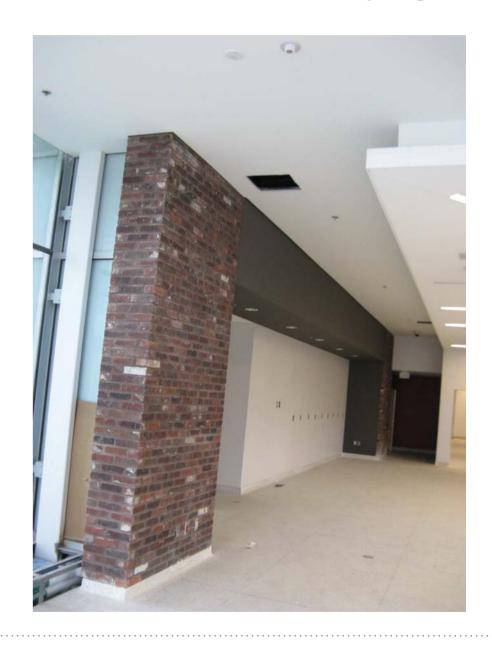
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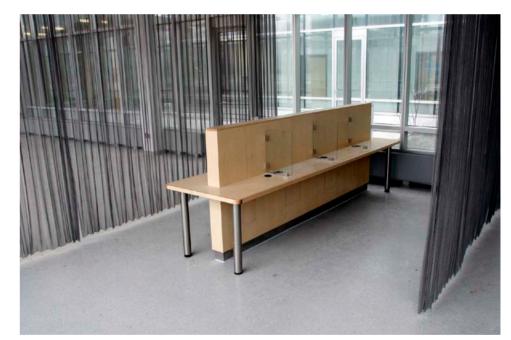
notable feature five:

MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma



MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma





use of non-traditional materials for detention facilities



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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma



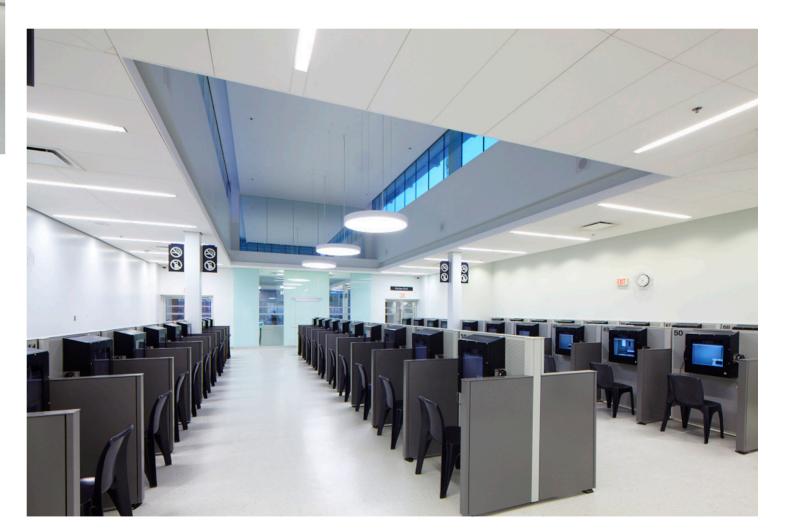
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use of colour



MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma





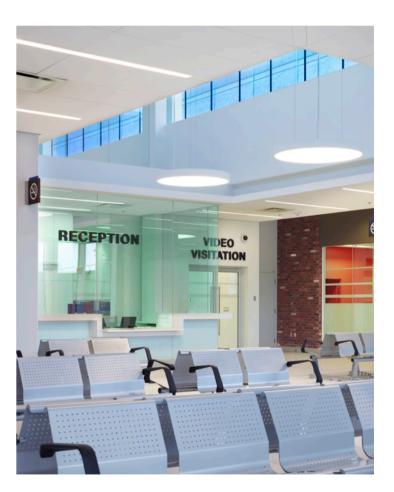
use of natural light in public spaces

zeidler **→** EllisDon



notable feature five: MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention

facility stigma





use of natural light in public spaces

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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma



use of natural light in public spaces

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notable feature five:

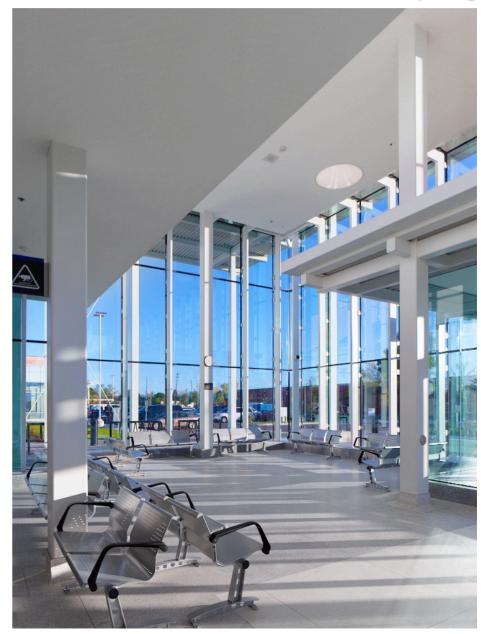
MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

use of natural light in public spaces





accessible civic structure without the traditional detention facility stigma





use of natural light in public spaces

zeidler **DellisDon**





MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

use of natural light in staff spaces



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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma





use of natural light in inmate dayroom spaces

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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma





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use of natural light in inmate spaces



use of natural light in inmate medical spaces

zeidler **DellisDon**



notable feature five:

MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma





MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma



use of natural light in inmate/ staff admitting and discharge spaces

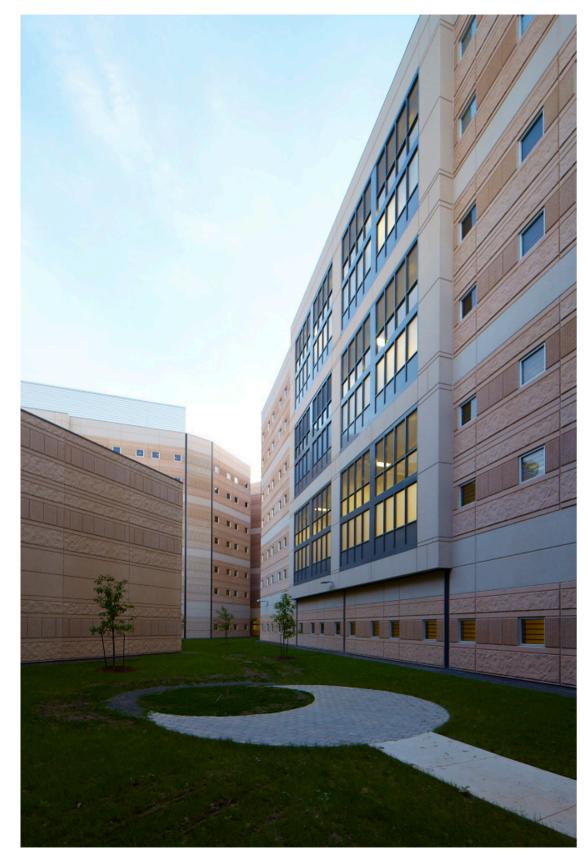


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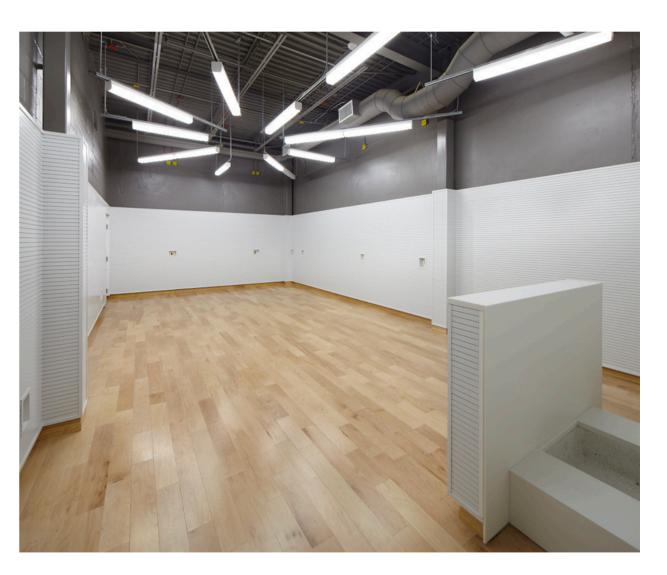
exterior aboriginal worship area

notable feature five:

MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma



MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

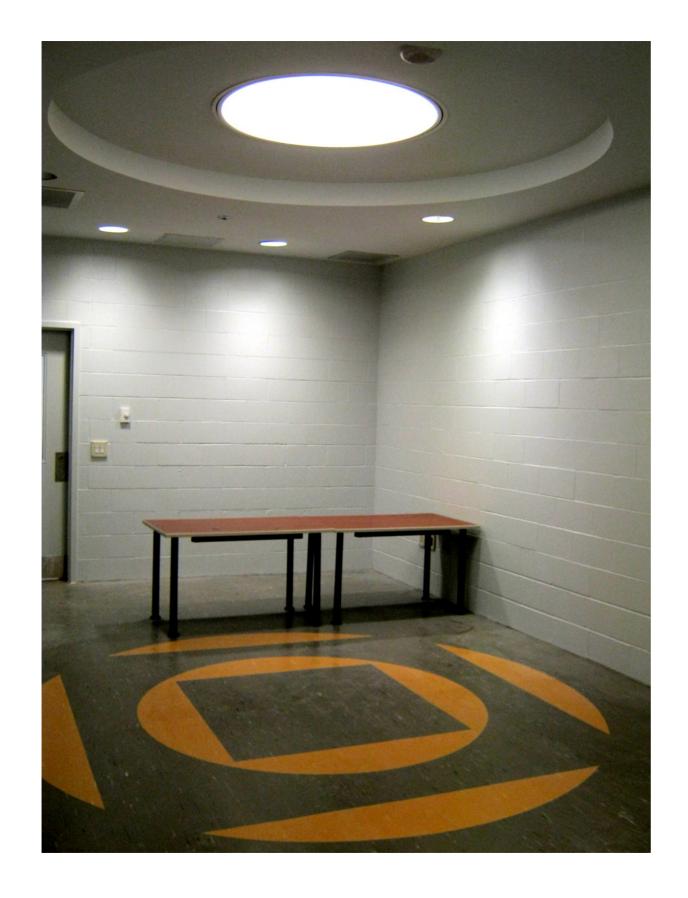




inmate worship area







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notable feature five:

MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

inmate worship area







MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

extensive use of glass frontage



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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma

extensive use of glass frontage

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MCSCS had wished the building to be a receptive and accessible civic structure without the traditional detention facility stigma



extensive use of glass frontage

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designing for LEED / Sustainability:

Susan Kapetanovic-Marr

Sustainability specialist – buildings, technology and energy division of Morrison Hershfield

Morrison Hershfield







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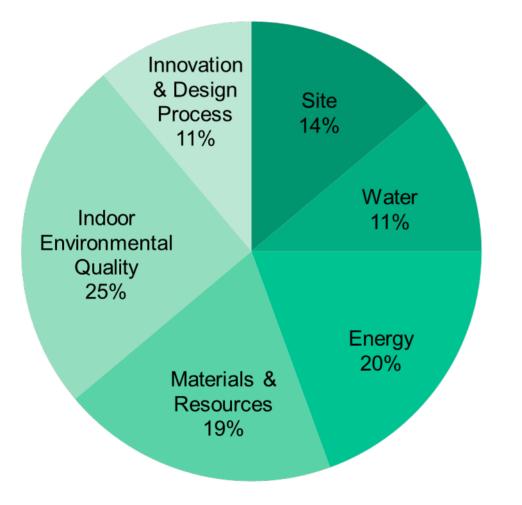
Overview

- Leadership in Energy and Environmental Design (LEED[®]) is a third-party certification program that serves as a benchmark for the design, construction and operation of high performance buildings.
- Project was registered with the Canada Green Building Council (CaGBC) in March 2009, under version 1.0 of the rating system.
- Currently undergoing certification review, targeting LEED[®] Silver Certification.





LEED[®] Strategy

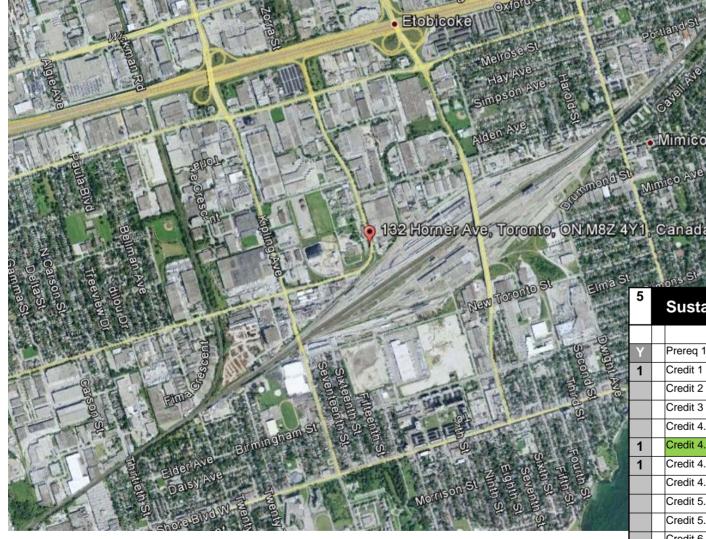


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- 1. Approach
- 2. Challenges
- 3. Lessons learned



Location Considerations



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- Industrial zone
- Security restrictions
- Design opportunities

5	Sustainable Sites		
Y	Prereq 1	Erosion & Sedimentation Control	Required
1	Credit 1	Site Selection	1
	Credit 2	Development Density	1
	Credit 3	Redevelopment of Contaminated Site	1
	Credit 4.1	Alternative Transportation, Public Transportation Access	1
1	Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1
1	Credit 4.3	Alternative Transportation, Alternative Fuel Vehicles	1
	Credit 4.4	Alternative Transportation, Parking Capacity	1
	Credit 5.1	Reduced Site Disturbance, Protect or Restore Open Space	1
	Credit 5.2	Reduced Site Disturbance, Development Footprint	1
	Credit 6.1	Stormwater Management, Rate and Quantity	1
1	Credit 6.2	Stormwater Management, Treatment	1
	Credit 7.1	Heat Island Effect, Non-Roof	1
1	Credit 7.2	Heat Island Effect, Roof	1
	Credit 8	Light Pollution Reduction	1



Location Considerations







Building Occupancy

- Regular and "residential" occupants
- Priorities for staff occupants:
 - Comfortable working environment
 - Access to daylight
 - Capacity for IAQ monitoring

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 Capacity for thermal comfort design and monitoring

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Building Occupancy

- Priorities for inmate occupants:
 - Vandal resistant fixtures and finishes
 - Acoustic comfort
 - Daylight

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Product Tracking

	Materials & Resources		
1	Credit 2.1	Construction Waste Management: Divert 50% from Landfill	1
1	Credit 2.2	Construction Waste Management: Divert 75% from Landfill	1
1	Credit 4.1	Recycled Content: 7.5% (post-consumer + ½ pre-consumer)	1
1	Credit 4.2	Recycled Content: 15% (post-consumer + ½ pre-consumer)	1
1	Credit 5.1	Regional Materials: 10% Extracted and Manufactured Regionally	1
1	Credit 5.2	Regional Materials: 20% Extracted and Manufactured Regionally	1

	Indoor En	vironmental Quality	Points
1	Credit 3.1	Construction IAQ Management Plan: During Construction	1
1	Credit 3.2	Construction IAQ Management Plan: Testing Before Occupancy	1
1	Credit 4.1	Low-Emitting Materials: Adhesives & Sealants	1
1	Credit 4.2	Low-Emitting Materials: Paints and Coating	1
1	Credit 4.3	Low-Emitting Materials: Carpet	1
1	Credit 4.4	Low-Emitting Materials: Composite Wood and Laminate Adhesives	1

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- Ensure that a tracking process is established from the onset
- Perform random spot checks for products on site
- Expect product selection challenges
- Time flexibility for Credit Interpretation Requests (CIRs)

Lessons Learned

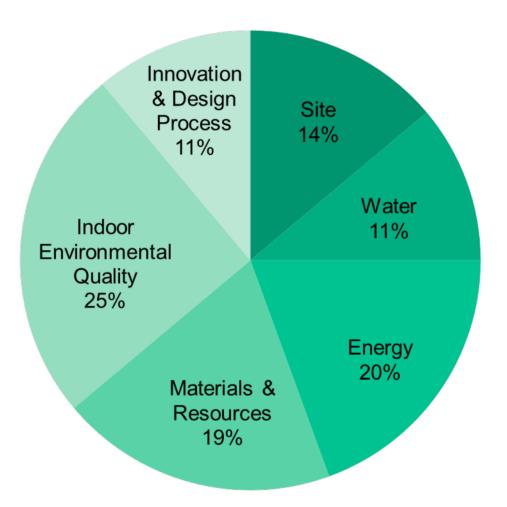
- 1. Recognize site location limitations and owner priorities
- 2. Identify the impact of staff and inmate occupancy on design limitations and opportunities
- 3. Account for product selection challenges

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4. Establish an efficient and vigorous material tracking process



consortium and DBFM (Design Build Finance Maintain):

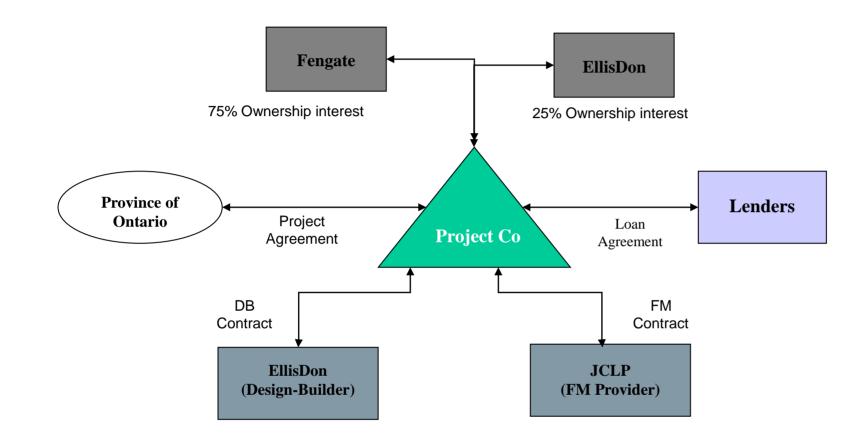
Michael Sullivan Director, Equity Services of EllisDon Corporation





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Contractual Structure



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ITS Contractual Structure

Project Co will enter into the Project Agreement with HMQ

• Project Co will pass its obligations under the project Agreement to the Construction Contractor and the Services Contractor through separate contracts as described below:

Construction Contract

EllisDon Corporation's obligations to Project Co. under the construction contract will be guaranteed by EllisDon Inc.

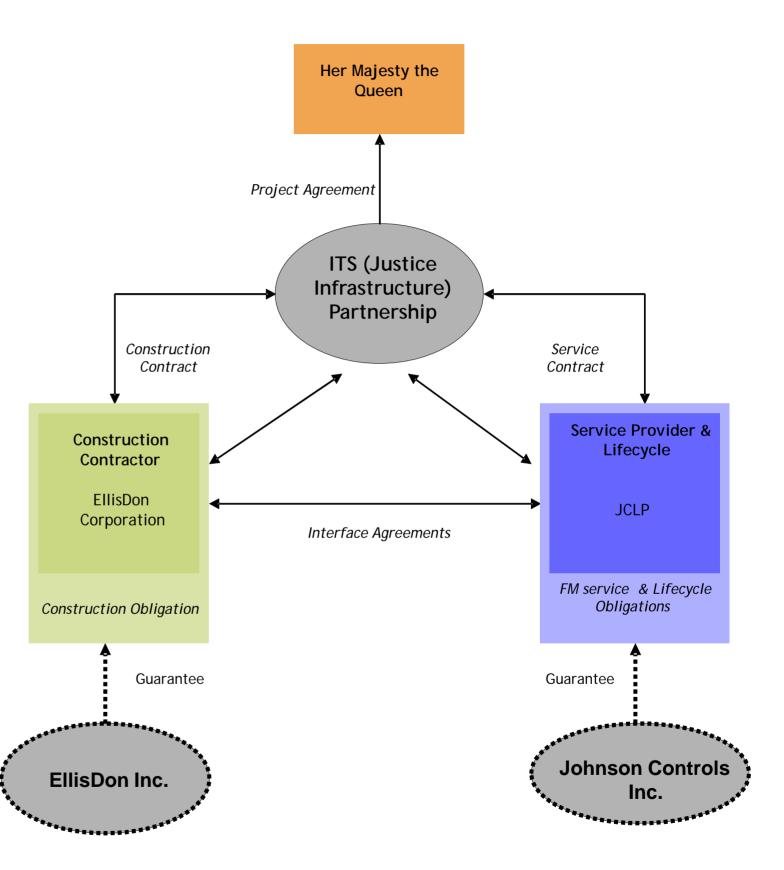
Service Contract

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JCLP's O&M & Lifecycle obligations to Project Co. under the service contract will be guaranteed by Johnson Controls Inc.

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construction and design build issues:

Geoff van der Lee Director, Special Projects of EllisDon Corporation

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site previous to construction and phasing extent



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construction completion and phasing extent



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TORONTO SOUTH DETENTION CENTRE

July 24, 2012



recent aerial photos



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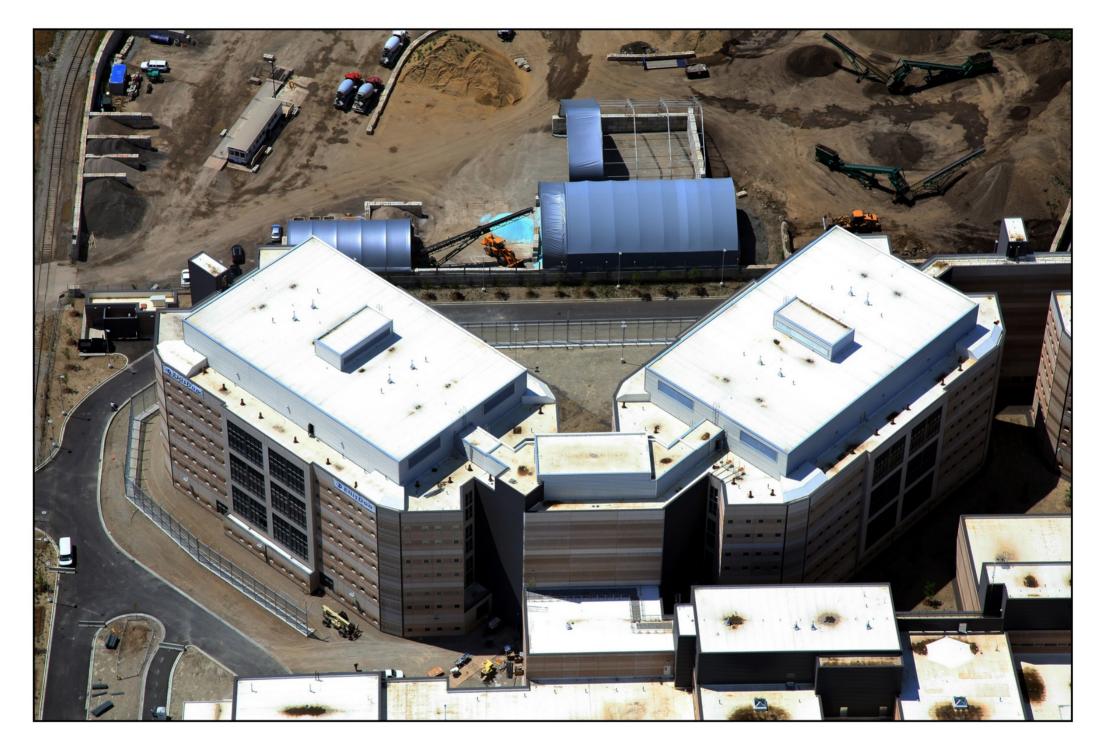


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end of presentation



