### **CITY OF VANCOUVER** PLANNING AND DEVELOPMENT SERVICES

### DEVELOPMENT PERMIT STAFF COMMITTEE REPORT MARCH 13, 2013

FOR THE DEVELOPMENT PERMIT BOARD APRIL 8, 2013

### 803 WEST 12<sup>TH</sup> AVENUE (PRELIMINARY APPLICATION) DE416467 - ZONE CD-1

SDB/JMB/LEB/CL/LH

DEVELOPMENT PERMIT STAFF COMMITTEE MEME Present: J. Greer (Chair), Development Services R. Thé, Engineering Services L. Gayman, Real Estate Services D. Naundorf, Social Infrastructure	ERS Also Present: S. Black, Urban Design & Development Planning J. Bosnjak, Development Services C. Lau, Development Services T. Chen, Development Services A. Law, Development Services
APPLICANT:	<b>PROPERTY OWNER:</b>
DYS Architecture	Vancouver Coastal Health Authority
Attention: Knut Boeck	500 - 520 West 6 <sup>th</sup> Avenue

260 - 1770 Burrard Street Vancouver, BC V6J 3G9

Vancouver, BC V5Z 4H5

### **EXECUTIVE SUMMARY**

• Proposal: A Preliminary Development Application to develop the site with a new 8-storey acute care hospital building (Joe and Rosalie Segal Family Centre (JRSFC)), to consolidate existing mental health facilities at Vancouver General Hospital (VGH) and University of British Columbia (UBC) hospitals and for updates to the master plan. The building will consist of out-patient facilities on levels one and two and 100 in-patient beds on levels three to seven, with the top floor to be for roof garden and mechanical space.

See Appendix A Standard Conditions

Appendix B Standard Notes and Conditions of Development Permit Appendix C Processing Centre - Building comments Appendix D Applicant's Design Rationale and Plans and Elevations Appendix E View Corridor Study Appendix F View Study from Tapestry Building

### • Issues:

- 1. Design of Willow Street entry area
- 2. Removal of temporary surface parking
- 3. Update of Services and Open Spaces Agreement
- Urban Design Panel: SUPPORT

### DEVELOPMENT PERMIT STAFF COMMITTEE RECOMMENDATION: APPROVE IN PRINCIPLE

THAT the Board APPROVE IN PRINCIPLE Development Application No. DE416467 submitted, the plans and information forming a part thereof, thereby permitting the development of a new 8-storey acute care hospital building to consolidate existing mental health facilities at VGH and UBC hospitals and for updates to the master plan, subject to the following conditions:

1.0 Prior to submission of a complete application and a final decision, the applicant is to carry out the following;

To assist in responding to conditions of the Preliminary Development Application, conditions are divided into two parts: Part A, which apply to the new mental health building and its built context, and Part B, which update the Master Plan and Agreements established by the previous rezoning and preliminary development permit. Staff anticipate that the designers and builders of the new Mental Health Building will address Part A conditions, while the health authority addresses Part B conditions, which should be met prior to Occupancy of the JRSFC building, unless otherwise specified.

Part A

1.1 design development to the Willow Street Pedestrian Corridor to reduce the height of retaining walls around the building entry, and to improve the visibility and amenity of this area for visitors and other hospital users;

Note to Applicant: This can be accomplished by raising the grade of the entry area to be closer to existing and adjacent grades, by the provision of benches and seating; by terracing any remaining grade changes; by avoiding guard rails and other vertical elements; and by increasing the extent of green planted areas; or any combination thereof. Grading should be adjusted to limit any step or terrace to no more than 1.5 ft. vertically.

- 1.2 closure of the West 10<sup>th</sup> Avenue vehicle crossing immediately east of the Willow Street Pedestrian Corridor and removal or relocation of the surface parking stalls in areas designated for open space in the Master Plan, including:
  - i. relocation of the surface parking stalls from their temporary location east of the Blusson building to underground parking on this site; and
  - ii. arrangements, to the satisfaction of the Director of Legal Services, in consultation with the General Manager of Engineering Services and the Director of Planning, to remove the proposed surface parking stalls southeast of the site;

Note to Applicant: The existing parking stalls located to the east of the Blusson building were permitted on a temporary basis with a phasing plan that identified relocation to the underground parking of the Medi-Tech 4 site once it redevelops. Similarly, the current application proposes parking stalls on future sections of defined open space and an agreement will be required to identify a relocation strategy with future development.

1.3 design development to reduce the visual effect and notability of massing above Level 6 and to increase the visual prominence of the shoulder line at 66 m elevation;

Note to Applicant: The intent is to better express the shoulder line as seen from the future Heather Common area as noted in the Master Plan for this area. This can be accomplished by reducing solid elements such as roof overhangs above Level 6, by increasing the setback from Level 6 to Level 7 on the east elevation, by changes to the exterior expression, or some combination thereof to the extent feasible without significant impact to health care goals for the project. See also Recommended Condition 1.4, which should be considered in combination with this condition.

1.4 consideration to reduce building massing and other structures including mechanical areas affecting private views from nearby residential properties, to the extent feasible without significant impacts to health care goals for the project;

Note to Applicant: Design guidelines for the area are intended to ensure that the form of new developments is compatible with adjacent established and future residential neighbourhoods. This can be accomplished by reducing the floor-to-floor height of non-patient levels; by reorienting upper level structures in a north-south direction; or by reducing the width of upper level elements, especially those to the east nearest the Willow Street Pedestrian Corridor.

1.5 provision of a response to all relevant policies and guidelines, including those noted in this report;

**Note to Applicant:** This report references the requirements relevant to a preliminary development permit. Additional information and material will be required for a complete development permit.

1.6 reconciliation of all VGH Precinct technical statistics is required, including confirmation of existing floor area, related exclusions, setbacks, height, parking and loading, to ensure clarity with respect to the development capacity permitted under the CD-1 and anticipated compliance for individual phases. See also Recommended Condition 1.8 regarding interim and future phasing plans regarding Parking and Loading;

Note to Applicant: In particular, additional information on the following is required:

- i. provision of a comprehensive parking and loading count, noting the existing site inventory, and anticipated parking demands for each proposed use;
- ii. provision of a comprehensive site coverage analysis of the existing and future developments, noting the net loss and gain of site coverage due to demolitions of existing buildings and construction of new buildings; and
- iii. provision of a comprehensive floor area analysis of the existing and future development, noting the net loss and gain of floor area due to demolitions of existing buildings and construction of new buildings;

The total floor area for all existing uses shown was that which was presented and approved by City Council for the text amendment for this CD-1 By-law. This figure differs from the applicant's submitted existing floor areas. Clarification is sought. Floor areas for individual buildings were statistics from the Ambulatory Care development, presented by DYS Architecture. Confirmation of these floor areas is required. Part B

1.7 arrangements shall be made, to the satisfaction of the Director of Legal Services, in consultation with the General Manager of Engineering Services, the Director of Planning and the General Manager of Park Board, to update the Services and Open Space Agreement, BT406263-64, to accommodate the proposed changes to the established phasing schedule and to the Owner's (Vancouver Coastal Health (VCH)) scope of work as outlined in the previous Preliminary Development Application and Master Plan;

**Note to Applicant:** Areas of the Services and Open Space Agreement that have been identified as out-of-date include, but are not limited to, the phasing of development, delivery of the Heather Common and timing of the 10<sup>th</sup> Avenue Works.

1.8 provision of an updated Parking and Loading Management Plan (Bunt, 2006), 5-Year Parking Plan (Bunt, 2008) and Transportation Management Plan (Bunt, 2006) to the satisfaction of the General Manager of Engineering Services and the Director of Planning;

Note to Applicant: The parkade phasing plan and implementation dates for each phase must also be referenced in the plan, and updated as changes in the development sequences and timings occur. The plans must also include the BC Cancer Centre parkade and further exploration the feasibility and conceptual design of the Heather Commons underground parkade. Specifically, the access point(s) and footprint of a possible Heather Common parkade should be explored. Parking spaces lost due to development of new buildings must also be accounted for.

1.9 all other aspects of the Master Plan must be concluded, to the satisfaction of the Director of Planning, General Manager of Engineering Services, General Manager Park Board, and Director of Legal Services, as necessary.

**Note to Applicant:** This requires resolution of all conditions of approval as established by the Development Permit Board on January 31, 2005, including, without limitation, updating to and modification of the, Heritage Restoration and Rehabilitation Plan, Public Art Plan and reconciliation of Precinct Statistics.

- 2.0 That the conditions set out in Appendix A be met prior to consideration of the Complete Development Application for the JRSFC building by the Director of Planning or the Development Permit Board.
- 3.0 That the complete application be dealt with by the Development Permit Board.

### • Technical Analysis:

	PERMITTED (MAXIMUM)	REQUIRED	PROPOSED
Site Size			Irregular
Site Area <sup>1</sup>			139,085 m <sup>2</sup>
Floor Area <sup>2</sup>	Total 361,621 m <sup>2</sup>		Existing: 340,997 m <sup>2</sup>
			Demolition:
			Health Centre -(8,114 m <sup>2</sup> )
			Willow Chest -(3,111 m <sup>2</sup> )
			Addition (Current Proposal):
			<u>MT-4 (JRSFC) 10,514 m<sup>2</sup></u>
			Proposed: 340,286 m <sup>2</sup>
FSR <sup>2</sup>	2.6		2.44
Site Coverage <sup>3</sup>	55.0% (76,500 m <sup>2</sup> )		Existing         56.2% (78,225 m²)           Proposed         55.7% (77,583 m²)
Height <sup>4</sup>	26 m (Area 5)		Top of Parapet Wall28.75 mTop of Mechanical Penthouse32.55 m
	Relaxable to:		
	38,4 m for Principle Structures; &		
	42.7 m for Mechanical Penthouses		
	View Cone 3.1 80.73 m		
Setbacks <sup>5</sup>		12 m	12 m
Parking <sup>6</sup>		Hospital Uses 3,324	Existing & Proposed: 2,138
Loading <sup>7</sup>		To Be Confirmed;	To Be Confirmed;
Bicycle		Class A - 1 Space/17	Class A Class B
Parking <sup>8</sup>		Employees on a maximum work shift;	63 0
		Class B - Minimum of 6 spaces at each public entrance;	

- <sup>1</sup> Note on Site Area: The CD-1 (59) By-law describes the "site" as comprising of all parcels of land within the entire VGH Precinct and attributes them with an area of 139,085 m<sup>2</sup> as shown by the zoning boundary on the map on Page 7. This development (MT-4/JRSFC Building) is shown highlighted within this precinct (denoted as "Site").
- <sup>2</sup> Note on Floor Area and FSR: Figures provided in the table are supplied by the applicant. Detailed accounting of Floor Area will be required at the Complete Development Application stage. The floor areas for other uses permitted in the CD-1 (59) By-law are not changing and do not exceed the maximum permitted. See Recommended Condition 1.6.

- <sup>3</sup> Note on Site Coverage: Figures provided in the table are supplied by the applicant. Detailed accounting of Site Coverage will be required at the Complete Development Application stage. See Recommended Condition 1.6.
- <sup>4</sup> Note on Height: The height of the building is above the maximum permitted in the CD-1 (59) By-law. The Director of Planning may permit an increase to the maximum height to not more than 38.4 m for portions of the principal structures and 42.7 m for mechanical penthouses corresponding to buildings in Area 5. The Director of Planning supports the proposed height. See commentary of page 9. This development is also affected by View Cone 3.1, however it is well below maximum height and is not affected.
- <sup>5</sup> Note on Setbacks: Section 8.1.3 of the CD-1 by-law requires a 12 m setback that is west of the imaginary extension of the centre line of Willow Street. The proposal meets this requirement.
- <sup>6</sup> Note on Parking: Parking is based on Hospital uses only. Parking for other uses in the hospital precinct are not affected for this proposal. Staff have reviewed a parking study provided by the applicant as part of this application and find the net change in parking due to the development acceptable aside from relocating the temporarily permitted handicap parking east of the Blusson building to underneath the JRSFC building. See Recommended Condition 1.2. The existing parking count for the VGH precinct is unconfirmed at this time; Staff are seeking a comprehensive on-site parking analysis in Recommended Condition 1.6. Clarification of the phasing of the Heather Commons parkade, along with all existing on-site parking spaces, is also requested in Recommended Condition 1.8.
- <sup>7</sup> Note on Loading: The existing loading provisions for the VGH precinct are unconfirmed at this time and an estimation could not be done based on available file history. Staff are seeking a comprehensive on-site loading analysis to be done in Recommended Condition 1.6. Staff are seeking clarification of the applicant's proposal for centralized loading facilities intended to serve the entire VGH precinct.
- <sup>8</sup> Note on Bicycle Parking: Figures provided in the table are supplied by the applicant. Detailed accounting of Bicycle Parking will be required at the Complete Development Application stage.

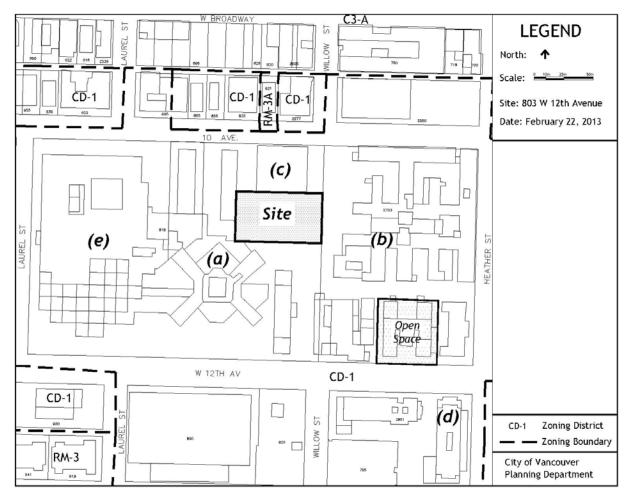
Note: The applicant should note that staff do not carry out detailed technical checks on Preliminary Development Applications. Figures shown are as supplied by the applicant.

- Legal Description
  - Parcel 1 Blocks 376 & 377 District Lot 526 Plan BCP1644

- History of Application:
- 12 12 21 Preliminary DE submitted
- 13 02 27 Urban Design Panel
- 13 03 13 Development Permit Staff Committee

• Site: The site is located to the south of West 10<sup>th</sup> Avenue, adjacent to the Willow Street Pedestrian Corridor, in the area designated as Medi-Tech Building 4 in the Master Plan for the Vancouver General Hospital (VGH) precinct. The site is not bounded by legal property lines and no subdivision is contemplated. The area to be developed is currently occupied by the Willow Chest Unit, which is proposed to be demolished.

- Context: Significant adjacent development includes:
  - (a) 855 West 12<sup>th</sup> Avenue, VGH Centennial Pavilion (12 storeys)
  - (b) 2733 Heather Street, VGH Heather Pavilion (Heather Block) (4 storeys)
  - (c) 818 West 10<sup>th</sup> Avenue, VGH Blusson Pavilion (6 storeys)
  - (d) 2851 Heather Street, "Tapestry" Multiple Dwelling (10 storeys)
  - (e) 899 West 12<sup>th</sup> Avenue, VGH Jim Pattison Pavilion (17 storeys)



### • Background:

In 2001, Vancouver Coastal Health (VCH) applied for a text amendment to the existing CD-1 zoning for the VGH Precinct to permit medical technology, service, retail, institutional, residential, cultural and recreational uses, in addition to hospital uses, and to increase the permissible floor space and site coverage in the Precinct. Consideration of this application established precinct-wide goals and directions.

In 2005, the Development Permit Board gave approval in principle to a Preliminary Development Application, DE408792, for the area containing "Medi-tech developments, open space and the Heather Pavilion." This approval included a detailed public realm plan for the entire precinct with specifics for Heather Common.

In 2006, the Board approved a Complete Development Application for the Blusson (formerly ICORD) building at 818 West 10<sup>th</sup> Avenue, the Medi-tech 3 site. The approval included a phasing plan for temporary surface parking stalls to the east of the Willow Street Pedestrian Corridor, to be relocated to the subject site at the time of its redevelopment. Council then approved the form of development for DE408792, and the detailed public realm plan for the VGH precinct.

These approvals have established a Master Plan and a Services and Open Space Agreement to guide development on the other Medi-tech sites, including 803 West 12<sup>th</sup> Avenue, known as the Medi-tech 4 site.

### • Applicable By-laws and Guidelines:

### 1. CD-1 (59) Vancouver General Hospital

Zoning requirements and proposed responses are summarized in the Technical Analysis table.

### 2. VGH Precinct CD-1 Guidelines

The Guidelines, adopted by Council in 2002, are intended to ensure the that the design of individual developments are compatible with the overall urban design concept for the area and with nearby commercial and residential areas, by setting goals for the location of new buildings, views, heights, setbacks, architectural expression and other aspects of building design. For example, the Guidelines recommend development along the west edge of the Willow corridor should "formally frame, define and enclose the major public open space" on 12<sup>th</sup> Avenue between Willow and Heather Streets.

### 3. VGH Master Plan

The VGH Master Plan includes the precinct-wide goals and directions established during consideration of the owner's application to Council in 2001 to add new uses and density, with further guidance provided by a detailed public realm plan for the Heather Common which formed a part of the owner's Preliminary Development Application and approval in principle by the Development Permit Board in 2005. The major public open space on 12<sup>th</sup> Avenue was further defined in the Heather Common Design Concept. This Concept and Medi-Tech Massing Guidelines was reviewed by the Development Permit Board in March 2006, and the Public Realm Plan was reviewed by Council in November of the same year. Among other measures, the Plan recommends that new buildings on this site establish a shoulder line between 65.5 and 67.5 m in elevation to frame the open space of the future Heather Commons.

### 4. Existing Agreements and Obligations

### Servicing and Open Space Agreement:

The Services and Open Space Agreement (the Agreement) was created to define the schedule for the delivery of a portion of the public amenity package (comprised of off-site and on-site works related to public open space/pedestrian corridors and infrastructure improvements) that emanated from the VGH rezoning in 2001.

Off-site infrastructure improvements, which are defined in the agreement, include:

- Oak Street Works (traffic signal and traffic calming);
- South of Twelfth Avenue Works (Fairview Heights Traffic Calming);
- Tenth Avenue Works; and
- Twelfth Avenue Works

On-site public open space and pedestrian corridors, which are defined in the Agreement, include:

- Willow Street Pedestrian Corridor;
- Heather Open Space Area;
- Willow Open Space Area; and
- Eleventh Avenue Pedestrian Corridor.

The public amenity package is linked to the proposed phases of development as established in 2001 and ensures that a minimum amount of public open space is maintained/replaced or created at any given time within the VGH Precinct boundary.

Furthermore, the Agreement lays out a payment schedule for the off-site works portion of the public amenity package (City infrastructure improvements), enabling the City to upgrade the necessary infrastructure that serves the precinct to keep up with the pace of development and mitigate the impacts of said developments.

### Public Art Agreement:

The property owner is obligated to choose an option for delivery of Precinct-wide Public Art prior to issuance of an Occupancy Permit for any "assessable rezoning building" as defined in the Agreement.

### Heather Pavilion Restoration Agreements:

The property owner is obligated to restore and rehabilitate the historic Heather Pavilion and is required to pay various deposits to the City in a schedule outlined in the agreement, to secure such restoration and rehabilitation work. Payment is required prior to issuance of a Building Permit for each "non-hospital building" as defined in the Agreement.

### 5. View Protection Guidelines

City Council has adopted view cones to protect selected public views. A portion of the site is located below View Cone 3.1, "Queen Elizabeth Park to the Downtown Skyline," which limits the height of a structure in this area to a maximum of 79.78 m geodetic elevation.

### • Response to Applicable By-laws and Guidelines:

### 1. CD-1 (59) Vancouver General Hospital

Preliminary technical analysis is provided in the preceding table. Additional clarification is sought in Recommended Condition 1.6.

*Use:* This site within the precinct was originally intended to contain a Medi-Tech building, but the bylaw does not require this use. The proposed hospital use is supported.

*Density:* The proposed density is within the permitted density of 2.6 FSR for the precinct.

*Height:* The maximum or 'outright' height of 26 m for this sub-area is exceeded, however it may be increased to 38.4 m for principal structures and 42.7 m for mechanical penthouses by the Development Permit Board upon consideration of the guidelines and other factors. Given the contribution of the proposed form to the urban design goals noted in the following sections, staff support the proposed height subject to the conditions noted.

*Parking:* The application proposes to create 11 surface parking spaces to the south of the building and accessed from 12<sup>th</sup> Avenue, of which 7 would be located on the Willow Street Pedestrian Corridor. Given the existing use of this area for vehicles, staff accept these stalls on an interim basis, subject to an agreement for their relocation at the time of subsequent development and the relocation of the previous temporary surface parking located to the east of the Blusson building (see Conditions 1.2 (ii) and (i) respectively).

Clarification of the precinct-wide count is sought by Recommended Condition 1.6 and timely updates to the precinct transportation plans are required in Recommended Condition 1.8.

### 2. VGH Precinct CD-1 Guidelines

The proposal responds positively to existing goals as follows:

- the massing helps to formally define the built edge of the future Heather Common;
- the Willow Street Pedestrian Corridor is advanced further South; and
- removal of the old Health Centre creates open space on 12<sup>th</sup> Avenue which advances the Heather Common.

Additional design development as noted in the Recommended Conditions will ensure achievement of the intents for this area, as noted below.

In general, the location of the proposed building meets these goals by preserving and reinforcing the open view and pedestrian corridors along the Willow Street and 11<sup>th</sup> Avenue alignments, and by providing the full setback of 12 m from the centre line of the Willow Street Pedestrian Corridor intended to preserve the major open view access across the hospital site from north to south. Some design development is recommended to reduce view impacts to residential from upper levels, where feasible (see Appendix F, and Recommended Condition 1.4).

Building height has been moderated by the proposed massing, which breaks up the façade facing the Willow Street corridor both vertically and horizontally by providing a building 'shoulder' at Level 6 and substantial insets for patient courtyards. Staff recommend further development of the 'shoulder' line which was defined in the previous Preliminary Development Permit, to improve its prominence (see Recommended Condition 1.3).

Similarly, the preliminary form of development responds to other design guidance. For example, the guidelines recommend that where there is a significant grade difference on a building face fronting a pedestrian route - as is the case for the east façade facing the Willow Street Pedestrian Corridor - that the main floor should be stepped down with a fall in grade to minimize blank wall areas and facilitate convenient access from adjacent public areas. In this case the grade drops by one storey from north to south, and the application proposes to respond by locating the main pedestrian entry facing east onto the Willow Street Pedestrian Corridor and accessible without stairs from 10<sup>th</sup> Avenue, with a secondary entry one level up convenient to the vehicle drop off accessed from 12<sup>th</sup> Avenue. While this arrangement provides an active face onto the Willow Street Pedestrian Corridor as intended, it also requires depressing the grade of the Corridor around the entry, which could reduce the visibility of the entry and affect sight lines around this part of the public realm. Staff recommend further design development to avoid these effects (see Recommended Condition 1.1).

The Guidelines and associated plans offer more detailed guidance on areas such as lighting, design to CPTED principles, and the like which will need review at the time of a Complete Development Application.

### 3. VGH Master Plan

The application generally responds to the Master Plan for the area, especially in terms of delivering the portion of the Willow Street Pedestrian Corridor adjacent to its site and by providing a shoulder line at the 66 m elevation to help define the west edge of the future Heather Common.

Changes required as a consequence of developing this site, such as relocation of the medical gas storage tanks from the adjacent service area to the Jim Pattison Pavilion loading area and the lane side of the Medi-Tech 2 site, will be considered through separate development permits and do not represent significant departures from the campus plan.

The Master Plan contemplates a major open space in the Heather Common area extending from Heather Street to the Willow Pedestrian corridor, with an extensive underground parking structure below. Guidelines for the precinct also note that the primary access for this parkade is intended to be from Heather Street, with access from 10<sup>th</sup> Avenue or 12<sup>th</sup> Avenue "as required."

The route indicated on the Master Plan from 10<sup>th</sup> Avenue would pass under the Medi-Tech 4 site. As the application proposes to construct a building on this site without provision for future parkade access, staff have considered whether this access should be a condition of approval. However, upon review of the future parking requirements including continuation of the Laurel parkade for the foreseeable future; the prioritization of 10<sup>th</sup> Avenue for bicycle, pedestrian, and other movements; the ongoing transportation demand management measures at the hospital; the provision of transit on the Broadway Corridor; and the access available from Heather Street and 12<sup>th</sup> Avenue, staff have concluded that 10<sup>th</sup> Avenue is not a required access point for the Heather parkade.

Staff have also considered the proposal to maintain the temporary surface parking located to the east of the Willow Pedestrian corridor, put in place in conjunction with the Blusson project to the north. This parking occupies an area intended to be public open space benefitting the entire precinct. It also requires a dedicated sidewalk crossing, and faces onto a well-used bicycle route. Given the prioritization of 10<sup>th</sup> Avenue for bicycle, pedestrian, and other movements; and a review of the previous material provided by the hospital at the time of the 2006 development permit showing relocation of the temporary parking to the Medi-Tech 4 site at the time of its redevelopment, staff recommend that the surface parking be removed and built under the JRSFC building (Recommended Condition 1.2 (i)).

### 4. Existing Agreements and Obligations of the Owner

The following obligations are the responsibility of the property owner, VCH, but are triggered by the JRSFC development.

### Servicing and Open Space Agreement:

The proposed development (on the Medi-Tech 4 site) is currently noted in Phase 5 of development. The Precinct still has works that are not complete as noted in Phase 2 of development. In order for the intent of timely delivery of the public amenity package in line with Precinct development to be respected and realized, modifications to the Agreement are required. The modifications must also incorporate any past arrangements made between the City and VCH that have not been incorporated within the Agreement.

Developing the Medi-Tech 4 site does not trigger any specific off-site works in the current form of agreement however replacement open space will be required and the additional floor space will add to the overall Precinct count, triggering remaining works at specific thresholds.

Notable works that are remaining:

- 10<sup>th</sup> Avenue Works
- 11<sup>th</sup> Avenue Pedestrian Corridor
- Willow Street Pedestrian Corridor
- Heather Open Space Area

See Engineering Services commentary on page 14 and Recommended Condition 1.5.

### Public Art Agreement:

A public art contribution is not required by the Agreement for this hospital use.

### 5. View Policy

The maximum elevation to the top of all structure is 74.90 m, which is 4.88 m (16 ft.) below the lowest portion of the view cone passing over the building. See Appendix E for a detailed analysis of the relevant view cone.

### • Conclusion:

Staff support the application, subject to the recommended conditions of approval.

### URBAN DESIGN PANEL

The Urban Design Panel reviewed this application on February 27, 2013, and provided the following comments:

### EVALUATION: SUPPORT (4-2)

 Introduction: Sailen Black, Development Planner, introduced the proposal regarding the Vancouver General Hospital for a preliminary development permit application that will update the master plan and add a new building. The proposed building is a new 8-storey acute care centre for mental health patients. The building will include out-patient facilities as well as a 100 in-patient beds. On the top floor a roof garden is planned. Mr. Black described relevant aspects of the CD-1 by-law, the VGH Precinct CD-1 Guidelines, and the existing Preliminary Development Plan and Open Space Agreement applicable to the site, including height limits and the intent to create a legible pedestrian-oriented public realm.

Advice from the Panel was sought on the architectural, landscape and open space design in general, and in particular:

- Does the proposed form of development support the future open space off the Heather Commons with its front on the Willow pedestrian corridor?
- Does the relationship between the building entries and the Willow corridor create an inviting amenity for hospital patients, staff, and the public?

Mr. Black took questions from the Panel.

• Applicant's Introductory Comments: Knut Boeck, Architect, further described the proposal. He noted that the building was designed to get as much natural light into the building as possible. As well there is a one storey grade difference between level one and level two making the building at grade on the north and east side. The main entrance is proposed on the east side. There is a set of stairs in the master plan that will be pushed back to the south to create level access at level one and allow at-grade access from West 10<sup>th</sup> Avenue. There is a 2-storey atrium linking level one and two with a separate entrance on the south side of level two. He noted the upper floors are cut back at the courtyard to allow more light into the floors. Mr. Boeck described the programming for the proposal. He noted that they will be achieving LEED™ Gold for the building. Mr. Boeck stated that they are providing glazing at grade to create street animation and as well there is the 2-storey atrium that relates to the Blusson Pavilion. The elevation of the courtyard at level three picks up the Blusson Pavilion canopy elevation.

Jonathan Losee, Landscape Architect, described the landscape plans. He mentioned that the primary focus was to see how the building impacts on the Willow Street corridor. The retaining wall will follow the slope at an angle to have a seating height edge just outside the building. There will be a set of steps to the front door but there will also be wheelchair access via the Willow corridor path to the east. On the upper levels of the building, vertical landscaping is proposed for the walls between the patio spaces. The roof terrace will be used for patient activities, so gathering places are proposed with an area for future gardening. The courtyards, although shady, will be visible from inside the building. A water feature is planned along with some plantings to act as buffers between the courtyard and the adjacent office spaces.

The applicant team took questions from the Panel.

- Panel's Consensus on Key Aspects Needing Improvement:
  - Design development to improve the area around the east entrance;
  - Design development to increase the amount of natural light in the courtyards.
- **Related Commentary:** Although the Panel supported the proposal but they thought there was room for improvement.

The Panel supported the form of development and liked the architectural expression of the building. However they thought there were some challenges in the proposed open space relative to the Willow Street alignment and the future Heather Commons. The Panel felt that the relationship between the entries and Willow Street did not work as shown, and actually made the entry hard to find. They also felt that depressing the Willow promenade to meet the east entry level diminished the formality of the street, and recommended raising the entrance. As well the Panel thought the location of the stair was not successful, with one member suggested pulling them back to the

north. It was suggested that the Willow corridor might work better more as a street than a green space, with some Panel members recommending activating the street more. A couple of Panel members noted that there might be too many trees at the entrance that did not help to clearly define the entry.

The Panel also had some concerns regarding the lack of daylight getting into the courtyard space as the building seemed to be shadowing itself. They felt this would make it a less livable space for the patients.

• Applicant's Response: Mr. Boeck thanked the Panel and said the comments were very helpful. He added that they will try to incorporate them. Regarding the entrance he noted that the entrance was set but they could develop it further.

### ENGINEERING SERVICES

The proposed development will be located in an area currently occupied by the Willow Chest Unit. Vehicular access to this area is provided by an internal laneway with street access from West 12<sup>th</sup> Avenue, Heather Street and West 10<sup>th</sup> Avenue. 10<sup>th</sup> Avenue and Heather Street are both designated City Bikeways. This section of West 10<sup>th</sup> Avenue experiences very high volumes for a local street and bike route as it provides access to a number of hospital facilities including its emergency entrance, loading areas, and parking facilities. Due to the number of competing demands it is important that the Precinct redevelopment strategy considers all of its future access and that it be provided off the appropriate streets.

The Master Plan for VGH defines the Willow Street Pedestrian Corridor as a required open space that is aligned with Willow Street and ultimately extends from West 10<sup>th</sup> Avenue to West 13<sup>th</sup> Avenue. The development proposes to close off a portion of vehicle through movement within its internal laneway to allow for the southern extension of the Willow Street Pedestrian Corridor, adjacent to the proposed development. However, the parking to the east of the Blusson building that is temporarily permitted with its access off of West 10<sup>th</sup> Avenue is proposed to remain.

A condition of the Development Permit for the Blusson building (DE409911) stated that the proposed surface parking east of the building was to be removed. The applicant responded to this condition with a phasing plan that relocated the parking once future development occurred on either the Medi-tech 4 site or the future Heather Common Parkade. Staff accepted this proposal with the hospital's acknowledgment that the proposed parking would be permitted temporarily, expiring one year after the Occupancy of the Blusson building and with renewal at the discretion of the Director of Planning.

Staff have worked closely with the VCH to understand the Precinct's short- and long-term needs and objectives. The redevelopment plans for the Heather Common is still unknown at this time and it is uncertain whether or not there is a need or desire to provide for the 1400+ spaces as originally anticipated. Recommended Condition 1.8 requires the timely updates to the Precinct's transportation plans to better guide the precinct's redevelopment including its overall parking demands and required access locations.

In order to proceed with the intent of the Master Plan and providing its open spaces as part of its public amenity package, staff require the West 10<sup>th</sup> Avenue vehicle crossing immediately east of the Willow Pedestrian Corridor to be closed and that the surface parking be removed or relocated and provided under the JRSFC building. This will allow for the provision of open space as intended by the Master Plan. The current application also proposes parking stalls on future sections of defined open space to the south east of the JRSFC building. Similar to the arrangement made with the Blusson development, an agreement will be required to identify a relocation strategy as the redevelopment of these areas are expected to be well in the future (see Recommended Condition 1.2).

The recommendations of Engineering Services are contained in the prior-to conditions noted in Appendix A attached to this report.

### CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN (CPTED)

A detailed review of the building design has not been undertaken for this Preliminary Development Application, as recommended conditions of approval and other factors are likely to change the design of building edges or entry areas. Staff will likely seek further design development when reviewing the Complete Development Application.

### LANDSCAPE

Due to the uncertainty of future phasing of projects related to the VGH Master Plan, it is prudent to ensure that any built portions related to the JRSFC building offer enough foresight and flexibility to avoid limiting future options from success.

Recognizing the challenges in constructing a temporary section of a major public open space in advance, design development is needed for the Heather Common portion, and to a lesser degree the Willow Street Pedestrian Corridor work, in order that the spirit and intent of the policy is realised. The proposed design for the Heather Common should be simplified, while respecting the needs of users in the short term, and ensuring that topography, existing and future grades can be made compatible. Where a responsible plan and process can be outlined, staff may consider short term options that can be easily altered and flexible to future phasing of open space, pedestrian corridors, access/egress, and/or underground parking. The grading and programming must prove that the envisioned public realm will not be compromised by decisions in the short term.

### HERITAGE

The Willow Chest building is not on the Heritage Register. The building was reviewed as part of Recent Landmarks Study but was determined to not be a candidate for addition to the Register at that time. There are some interesting design features or elements that could be considered by the designers for incorporation into the new building, but these are not required.

### PROCESSING CENTRE - BUILDING

This Development Application submission has not been fully reviewed for compliance with the Building By-law. The applicant is responsible for ensuring that the design of the building meets the Building By-law requirements. The options available to assure Building By-law compliance at an early stage of development should be considered by the applicant in consultation with Processing Centre-Building staff.

To ensure that the project does not conflict in any substantial manner with the Building By-law, the designer should know and take into account, at the Development Application stage, the Building By-law requirements which may affect the building design and internal layout. These would generally include: spatial separation, fire separation, exiting, access for physically disabled persons, type of construction materials used, firefighting access and energy utilization requirements.

Further comments regarding Building By-law requirements are contained in Appendix C attached to this report.

### NOTIFICATION

On February 21, 2013, 807 notification postcards were sent to neighbouring property owners advising them of the application, and offering additional information on the city's website.

There were 15 responses received, the comments are summarized below:

- Request for view study from the Tapestry building at West 12<sup>th</sup> Avenue and Heather Street
- Concern for mountain and water view impacts as the building is taller than the Blusson building at 818 W 10<sup>th</sup> Avenue
- Request that the building be altered to lessen view impacts
- Support for new building and facilities for mental health and addictions patients
- Concern for safety of neighboring residents

### Staff Response

The proposal is higher than the most recent development nearby, the Blusson building. However, the Blusson building was built below the intended height of shoulder line of 65.5 m to 67.5 m in elevation as recommended in the Master Plan, and is roughly half of the permitted height for this area. The proposed maximum height of approximately 32.55 m from the low point on the site to the top of structure is about 10.7 m lower than the maximum height allowed to top of structure, or 42.7 m. The proposed shoulder line at 66.0 m in elevation will help to define the perimeter of the future Heather Common.

To illustrate the potential impact to private views from nearby residential units, the applicants have provided view studies from the east and west portions of the Tapestry development at West 12<sup>th</sup> Avenue and Heather Street (see Appendix F). The views also show the existing buildings which currently affect distant views. The units most likely to be affected are the those at eye level with the top storey of the proposal. These units are located in the east portion of Tapestry, located about 170 metres to the southeast. These concerns are reflected in Recommended Condition 1.4. For other residents, especially those on lower floors facing 12<sup>th</sup> Avenue, the removal of the Health Centre and its replacement with green open space will be more significant changes than the addition of the mental health building to the hospital campus.

### DEVELOPMENT PERMIT STAFF COMMITTEE COMMENTS:

Staff Committee have reviewed the preliminary application and support the application with the conditions contained in the report noting that the applicant and the owner should be fully aware of their respective obligations to satisfy all conditions of this report in order to allow the timely processing and consideration of the complete application for this development.

J. Greer Chair, Development Permit Staff Committee

S. Black, Architect AIBC Development Planner

J. Bosnjak Project Coordinator

Project Facilitator: C. Lau

### DEVELOPMENT PERMIT STAFF COMMITTEE RECOMMENDATIONS

The following is a list of conditions that must also be met prior to the submission of a Complete Development Application for the JRSFC building:

### A.1 Standard Conditions

A.1.1 design development to locate, integrate and fully screen any emergency generator, exhaust or intake ventilation, electrical substation and gas meters in a manner that minimizes their visual and acoustic impacts on the building's open space and the Public Realm;

### Standard Landscape Conditions

### Part A

A.1.2 design development to the east side landscape grading and entrance sequence of the Segal Centre to ensure that pedestrian connections in the east-west direction through the Willow Street Pedestrian Corridor are strengthened, while concurrently respecting the intent of the VGH Master Plan;

Note to Applicant: The specific entrance needs and building grades of the Segal Centre should enhance rather than fragment current and future pedestrian flow in the public realm. Documents/plans should address this.

A.1.3 provision of typical, detailed large scale (1/4" or 1:50) landscape sections and elevations of all open space areas, including planters, existing and proposed grades, walkways, surfaces, subsurface soil, walkway materials, railings, retaining walls, stairs and underground structures;

### Part B

A.1.4 soft and hard surface landscape elements to be consistent with the VGH Master Plan, related policies/ guidelines;

Note to Applicant: Landscape elements should be to the satisfaction of the General Manager of Engineering Services. Ensure that the landscape plans clearly label all materials and specifications. Special attention is needed to plan for and implement future phases seamlessly, avoiding unnecessary grading, cut and fill, awkward edges, construction costs or other interventions that could compromise future implementation of the master plan. Non-standard landscape materials and site furnishings may be considered on a limited basis, provided they match other recently built projects in the immediate context.

A.1.5 design development to the proposed phase of the Heather Common to be consistent with the VGH Master Plan, and related policies;

Note to Applicant: The plan should present a simplified, central "rolling lawn" to be framed by present and future perimeter buildings and transitional tree-lined pedestrian corridors. In the central green space, all circulation routes, access exits, temporary structures and trees to be relocated to the perimeter rather than centrally oriented. The central space should be programmed as passive, contemplative green space rather than transitional in nature. While the proposed landscape elements should respond to the needs of users in the short term, future alterations to built form may be required due to the uncertainties related to the status of future projects, budgeting and parking requirements. Detailed design may still include a simplified palette of master plan materials, planting, furniture and lighting. Secondary pedestrian walkways should be two-foot square concrete or hydrapressed colored pavers and

limited to the outer edges of the space (refer to "The Tapestry" residential project, open space portion and built portions of the 11<sup>th</sup> Avenue corridor).

- A.1.6 provision of additional documents with regard to proposed Heather Common open space phasing, as follows:
  - i. detailed area survey to inform present and future design decisions;

Note to Applicant: Provide a sufficient quantity of spot elevations. Extend the survey to show existing buildings, open space, grades and topographical information to the outer edges of the future Heather Common, including the curb edge along West 12<sup>th</sup> Avenue, curb edge along Heather Street, east of the old power plant and to the edges approximating the future Heather Pavilion.

- ii. detailed "phased" plan(s) that consolidates the information presented on A-12, A-13 and the VGH Master Plan, placing the proposed phased portions of the Willow Corridor, Heather Commons and West 12<sup>th</sup> Avenue street design into the future master plan, including best approximation of dates for future demolition and master plan work;
- iii. large scale plan(s) detailing the proposed green space (area #21, after Health Centre demolition) in the context of the future Heather Common and an overlay of relevant portions of the Master Plan, that highlights scope of work, tree, master plan materials, circulation, point of access/egress, site furniture, lighting, contours and permanent points of reference to the perimeter; and

Note to Applicant: The plan should indicate a level of detail comparable to the approved VGH Master Plan.

- iv. a sufficient number of cross sections (north-south, east-west) to the outer edges of the future Heather Common, including West 12<sup>th</sup> Avenue, Heather Street, east of the old power plant and to the edges approximating the future Heather Pavilion;
- A.1.7 design development and documentation to the Willow Street Pedestrian Corridor, to:
  - i. ensure that benches, lighting and hard surface details are consistent with the Master Plan and the as-built portions adjacent the Blusson building;
  - ii. clarify details for standard benches and upstand LED lighting, in plan and elevation (consult Engineering Services for brand and standard specifications);
  - iii. clarification of the note on sheet L-1, "grades to be lowered inside dashed line";
  - iv. provide large scale cross sections in the north-south and east-west directions;
  - v. indicate spot elevations (existing, proposed, top/bottom wall, soft surface areas, walkways, stairs); and
  - vi. avoid introducing any new non-standard paving materials in the Willow corridor proper. Non-standard "special paving" and site furniture to be limited (and encouraged) to the private property apron of buildings. As an exception, special paving may be considered and limited to rest areas/corner cuts in the Willow Street Pedestrian Corridor provided it is matched to existing special paving and high quality custom benching in the immediate context;

- A.1.8 clarification in writing and illustrated on the appropriate plans of those elements that are permanent and those that are temporary;
- A.1.9 provision of typical, detailed large scale (1/4" or 1:50) sections and elevations of all open space areas, including planters, existing and proposed grades, walkways, surfaces, subsurface soil, walkway materials, railings, retaining walls, stairs and underground structures; and
- A.1.10 provision of a detailed landscape design rationale and phasing details.

### A.2 Standard Engineering Conditions

### Part A

A.2.1 provision of an improved design for the access way under the JRSFC building to allow for Class C trucks to pass straight through without excessive maneuvering and to provide a safe crossing for pedestrians to the satisfaction of the General Manager of Engineering Services;

Note to Applicant: Consideration of a larger corner cut on the proposed secured outdoor space for Willow Pavilion or relocation of the support columns for the Segal is needed in order to provide better Class C movements. Consideration of conflict with the operation of other vehicles (such as Handy Dart drop-off) should be taken into account. Class C trucks maneuvering to drive between the columns under the JRSFC building would require a wider maneuvering aisle of 10 m (33 ft.) at the marked crosswalk. Consider providing a bang bar and sign showing the vertical clearance available under the JRSFC building.

- A.2.2 provision of the following improvements to bike storage facilities including:
  - i. provision of building awning over the 6 Class B bicycle storage proposed near the outpatient entrance;
  - ii. provision of adequate space between the door and the free standing wall to access Bike Storage Room 2; and
  - iii. provision of automatic door opening device at the bicycle entrance door to enter and exit the building; and
- A.2.3 the General Manager of Engineering Services will require all utility services to be underground for this "conditional" development. All electrical services to the site must be primary with all electrical plant, which include but not limited to, junction boxes, switchgear, pad mounted transformers and kiosks (including non-BC Hydro kiosks) are to be located on private property;

It is presumed with your consultation so far with BC Hydro that an area has been defined within the development footprint to accommodate such electrical plant. Please confirm that this space has been allocated and agreement between both parties has been met;

In addition, there will be no reliance on secondary voltage from the existing overhead electrical network on the street right-of-way. Any alterations to the existing overhead/underground utility network to accommodate this development will require approval by the Utilities Management Branch.

A.3 Standard Licenses & Inspections (Environmental Protection Branch) Conditions:

Part A

- A.3.1 provision of a site profile;
- A.3.2 provision of an environmental media reports;
- A.3.3 that the property owner shall, as required by the Manager of Environmental Protection and the Director of Legal Services in their discretion, do all things and/or enter into such agreements deemed necessary to fulfill the requirements of Section 571(B) of the Vancouver Charter; and
- A.3.4 enter into a remediation agreement for the remediation of the site and any contaminants which have migrated there from on terms and conditions satisfactory to the Manager of Environmental Protection, City Engineer and Director of Legal Services, including a Section 219 Covenant that there will be no occupancy of any buildings or improvements on the site constructed pursuant to this development, until a Certificate of Compliance(s) or such other instrument, determination or approval satisfactory to the City has been issued by the Ministry of Environment (MoE) which confirms that the on-site and off-site contamination, has been remediated to levels or standards acceptable to the MoE for the on-site and acceptable to the MoE and the City for the off-site contamination.

### B.1 Standard Notes to Applicant

- B.1.1 The applicant is advised to note the comments of the Processing Centre-Building, Vancouver Coastal Health Authority and Fire and Rescue Services Departments contained in the Staff Committee Report dated March 13, 2013. Further, confirmation that these comments have been acknowledged and understood, is required to be submitted in writing as part of the "prior-to" response.
- B.1.2 It should be noted that if conditions 1.0, 2.0 and 3.0 have not been complied with on or before October 8, 2013, this Development Application shall be deemed to be refused, unless the date for compliance is first extended by the Director of Planning.
- B.1.3 This approval is subject to any change in the Official Development Plan and the Zoning and Development Bylaw or other regulations affecting the development that occurs before the permit is issuable. No permit that contravenes the bylaw or regulations can be issued.
- B.1.4 Revised drawings will not be accepted unless they fulfill all conditions noted above. Further, written explanation describing point-by-point how conditions have been met, must accompany revised drawings. An appointment should be made with the Project Facilitator when the revised drawings are ready for submission.
- B.1.5 A new development application will be required for any significant changes other than those required by the above-noted conditions.

### B.2 Conditions of Development Permit:

- B.2.1 All approved off-street vehicle parking, loading and unloading spaces, and bicycle parking spaces shall be provided in accordance with the relevant requirements of the Parking By-law prior to the issuance of any required occupancy permit or any use or occupancy of the proposed development not requiring an occupancy permit and thereafter permanently maintained in good condition.
- B.2.2 All landscaping and treatment of the open portions of the site shall be completed in accordance with the approved drawings prior to the issuance of any required occupancy permit or any use or occupancy of the proposed development not requiring an occupancy permit and thereafter permanently maintained in good condition.
- B.2.3 Any phasing of the development, other than that specifically approved, that results in an interruption of continuous construction to completion of the development, will require application to amend the development to determine the interim treatment of the incomplete portions of the site to ensure that the phased development functions are as set out in the approved plans, all to the satisfaction of the Director of Planning.
- B.2.4 The issuance of this permit does not warrant compliance with the relevant provisions of the Provincial Health and Community Care and Assisted Living Acts. The owner is responsible for obtaining any approvals required under the Health Acts. For more information on required approvals and how to obtain these, please contact Vancouver Coastal Health at 604-675-3800 or visit their offices located on the 12<sup>th</sup> floor of 601 West Broadway. Should compliance with the health Acts necessitate changes to this permit and/or approved plans, the owner is responsible for obtaining approval for the changes prior to commencement of any work under this permit. Additional fees may be required to change the plans.
- B.2.5 This site is affected by a Development Cost Levy By-law and levies will be required to be paid prior to issuance of Building Permits.

### Processing Centre - Building comments

The following comments are for <u>the building itself</u> and are based on the preliminary drawings prepared by dys architecture dated Dec. 21, 2012 for the proposed preliminary development permit. This is a preliminary review in order to identify issues which do not comply with the Vancouver Building Bylaw #9419 as amended (VBBL), and includes a review of Subsection 3.2.5. "Provisions for Fire Fighting".

- 1. Building safety facilities such as central alarm and control facility, firefighter's elevator and stairwells equipped with standpipe connections shall be coordinated with the location of the firefighter's' entrance.
- 2. Principle entrance is not within 15 m of the fire access route.
- 3. Building face is not within 3 to 15 m of the fire access route.
- 4. The building is required to provide access to persons with disabilities to all public areas, common areas, change rooms and showers, storage, amenity, meeting rooms, and to areas where work functions could reasonably be expected to be performed by persons with disabilities.
- 5. \* Spatial separation requirements on the North, East, and South elevations may not comply and the existing buildings being exposed may require upgrading.
- 6. Building construction is required to be noncombustible.
- 7. Highrise building and VBBL 3.2.6. requirements for high buildings apply to the entire building. Connected buildings provisions will be required.
- 8. Width of exit doors on floor areas serving patient sleeping rooms are required to be not less than 1050 mm. Doors shown appear to be too narrow.
- 9. Interconnected floor spaces must meet Subsection 3.2.8.
- 10. Fire access route from 12<sup>th</sup> Avenue to the building main entrance is required. Fire access route is required to be conspicuously demarcated and provided with fire lane signs.
- 11. Fire hydrant adjacent to the fire access route is required.
- 12. Weather vestibule is required at main entrances.

\*Items marked with an asterisk have been identified as serious non-conforming Building By-law issues.

Written confirmation that the applicant has read and has understood the implications of the above noted comments is required and shall be submitted as part of the "prior to" response. If a "prior to" letter is not being sent, the above comments should be sent directly to the applicant.

The applicant may wish to retain the services of a qualified Building Code consultant in case of difficulty in comprehending the comments and their potential impact on the proposal. Failure to address these issues may jeopardize the ability to obtain a Building Permit or delay the issuance of a Building Permit for the proposal.

There are no comments or conditions regarding the changes to the Master Plan.



- Alia

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AND A

### APPENDA -WILLOW STREETSCAPE ELEVATION LOOKING WEST VANCOUVER GENERAL HOSPITAL MASTER PLAN DEVELOPMENT STATISTICS MECHANICAL PENTHOUSE BUILDING SECTION A-A BUILDING SECTION B-B DESIGN RATIONALE SOUTH ELEVATION **VORTH BLEVATION** CONTEXT PHOTOS, SHADOW STUDIES WEST ELEVATION NERIAL SHE PLAN EAST ELEVATION ARCHITECTURE CONTEXT PLAN SUPVEY PLAN SITE PLAN LEVEL 1 LEVEL 3 LEVEL 4 LEVEL S LEVELO LEVEL 7 LEVEL 2

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### LANDSCAPE ARCHITECTURE SITE PLAN & LEVEL 1

1.EVEL 4 & 5 LEVEL 6 & 7 LEVEL 3

LEVEL 8 - PENTHOUSE

LANDSCAPE LAYOUT - PHASE 1

LANDSCAPE LAYOUT - PHASE 2

### TRAFFIC CONSULTANT

TRAFFIC/DEMAND MANAGEMENT & PARKING STUDY

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# JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

PAGE A1

DEVELOPMENT STATISTICS

# DEVELOPMENT STATISTICS

Parcest 1, Blocks 375 & 377, District Lot 528 Group 1, Plan NY4D BCP 1644

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AppendixD; page of HD

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another         33,443         3           Another         33,443         3           Riskry Packt) Centre         3,543         3           Resident Result         3,114         1           Addition: South Eawit         6,940         3,350           And Molicin: South West         1,384         3,330           Addition: South West         1,384         7,710           And Addition: South West         1,384         7,710           Riskindom Contin         2,371         3,350           And Molicin: South West         1,384         7,432           Riskindom Auditionum         5,731         3,741           Plant (New)         5,733         5,733           Mark         3,111         3,733           Addition         5,733         5,733           Addition         5,733         5,733           Addition         5,733         5,733	Commond Centre moris Common Mile (Rawing Paack) Manual Pavilion Manual Pavilio		33,430 908 2,146 2,146 8,199 8,199 8,114 8,114 8,114 2,56 2,56 2,56 2,56 2,56 2,56 2,56 2,56	359,038 9,774 23,099 94,712 94,712 102,377 12,636 87,338			
Montine         9008           Revention         2008           Prevention         30, 4433           Prevention         30, 4433           Prevention         30, 4433           Prevention         31, 445           Prevention         5445           Prevention         5545           Prevention         5545           Prevention         5534           Prevention         5534           Prevention         5534           Prevention         5534           Prevention         5534           Prevenion         5534	rrise (Schrite Arrise (Sdayr) Pack) Fried Pack) Fried Packing Mith Pack) Arrise Alexidence Bith Cherte Bith Cherte Bith Cherte Bith Cherte Arrise (Additon; South Eavt - Laker Additon; South Eavt - Laker Addition; South Weat - Laker Addition; South Weat		808 2.145 2.145 2.145 2.96 4.739 0.0 0.114 0.114 0.256 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.455 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.355 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.3555 2.35555 2.35555 2.35555 2.35555 2.355555 2.355555 2.35555555555	9,774 23,099 94,712 94,712 942,877 0 42,639 42,639 87,339	e.)		
Mary Fack) Centre         2,146           Pawinicin         2,146           Pawinicin         2,146           Pawinicin         2,146           Pawinicin         36,453           Pawinicin         3,341           Pawinicin         3,341           Pawinicin         5,341           Pawinicin         5,341           Pawinicin         5,341           Pawinicin         5,343           Pawinicin         5,343           Pawinicin         5,343           Pawinicin         5,343           Pawinicin         5,343           Pawinicin         8,114           Pawinicin         8,041           Pawinicin         5,343           Pawinicin         5,343           Pawinicin         5,344           Pawinicin         5,344           Pawinicin         5,344           Pawinicin         5,344           Pawinicin <td>(i) Ridary Pavily, Centre dreat Pavilon di Carto Levres dano Levres Larre Residence abres Pavilon (4Ph), Hentage Abres Pavilon (4Ph), Hentage - Lation Addition, South Neat - Lation Addition, South West - Carton Methods - Carton - Lation Addition, South West - Carton Methods - Carton - Lation Addition, South West - Carton - Carton - Carton - Lation - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Ca</td> <td></td> <td>2,145 2,547 2,547 2,453 2,453 2,414 2,414 2,655 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555</td> <td>23,099 94,712 94,712 94,712 942,4336 87,338</td> <td>e.,</td> <td></td> <td></td>	(i) Ridary Pavily, Centre dreat Pavilon di Carto Levres dano Levres Larre Residence abres Pavilon (4Ph), Hentage Abres Pavilon (4Ph), Hentage - Lation Addition, South Neat - Lation Addition, South West - Carton Methods - Carton - Lation Addition, South West - Carton Methods - Carton - Lation Addition, South West - Carton - Carton - Carton - Lation - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Carton - Ca		2,145 2,547 2,547 2,453 2,453 2,414 2,414 2,655 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555 2,555	23,099 94,712 94,712 94,712 942,4336 87,338	e.,		
Prevident         8,759         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,443         9,444         9,444         9,444         9,444         9,444         9,444         9,444         9,444         9,444	thermise Pavilion thermise Pavilion thermise Pavilion Educe Residence and Canto Canton Education (PP). Heritage and Canton Canton East - Lation Addition, South East - Lation Addition, South East - Lation Addition, South East - Lation Addition, South Veral - Lation Addition, South Veral		8,799 38,453 38,453 6,114 6,114 0 7 1,12 266 1,114 266 1,125 266 1,125 266 1,125 266 1,125 266 1,125 266 1,125 266 1,125 2,125 2,139 1,135 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,139 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239 2,239	94,712 382,377 382,377 42,636 87,338			
a         Agent         3.941           re         Centre         3.941           Assidence         3.345         3.345           Assidence         3.341         3.345           Assidence         3.345         3.345           Assidence         3.345         3.345           Assidence         5.445         3.345           Assidence         5.345         5.345           Assidence         5.345         5.355           Plant (New)         5.244         5.255           Plant (New)         5.733         5.733           Assidence         5.734         5.733           Assidence         5.734         5.734           Assidence         5.734         5.734           Assidence	ist Care Control at Care Control IIII. Control IIII. Control III. Control Anne Paoliton (1912). Heritagn - Lane Addition: South Eavit - Lation Addition: South Eavit - Lation Addition: South West - Lation Addition: South West - Lation Addition: South West - Control West		2000 2000 2000 2000 2000 2000 2000 200	42,626 42,636 87,338		र्ष भी	Ť
Residence are associated and a set of the se	Ear Presidence Bhr Contro Bhr Contro Bhr Contro Bhr Control Bhr Control Bhr Control - Lator Addition: South Eaut - Lator Addition: South Eaut - Lator Addition: South West - Lator Addition: South West - Lator Addition: South West - Lator Addition: South West - Lator Addition: South West		2000 2000 2000 2000 2000 2000 2000 200	42,636 87,338		*	
Private         8,114           Prevente         8,114           Prevente         8,114           Prevente         5,345           Prevente         5,345           Prevente         5,345           Prevente         5,345           Prevente         5,345           Prevente         3,355           Prevente         3,314           Prevente         3,314      <	The Control of C		8,114 6,940 7,256 1,356 1,354 1,354	87 338		*	
a solution (HP): Heritage         0           or Addition: South Earl         256           or Addition: South Earl         256           or Addition: South Earl         256           or Addition: South Earl         255           or Addition: South Earl         3353           or Addition: South Earl         355           or Addition: South Earl         355           or Addition: South Earl         555           or Addition: Larrels South Earl         55,353           or Particle (Larrels South Earle)         55,353           or Part (New)         55,253           Plant (New)         55,253           Plant (New)         55,253           or Part (New)         55,333           or Part (New)         5,343           Plant (New)         5,343           or Particle         5,343           or Part (New)         5,344           or Particle         5,344           or Part (New)         5,344           or Part (New)         5,344           or Part (New)         5,344           or Part (New)         5,344	athres: Parkiton, (HP), Heritage – Lation Addition: East – Lation Addition: South Eaut – Lation Addition: South West – Lation Addition: South West – Lation Addition: South West – Caris		2566 2566 2566 2566 2566 2566 2566 2566			0	
of Addition: 5auth         6,9405           of Addition: South Fault         3,350           of Addition: South Fault         3,350           of Addition: South Fault         3,350           of Addition: South Fault         1,334           of Addition: South Fault         3,350           of Addition: South Fault         3,350           of Addition: South West         1,334           Extornion (Robert H M Ho)         5,341           on Pavilion (Larrel) South South Faulten Horth         5,343           part (Loch)         5,341           Plant (New)         5,344           Plant (New)         5,343           Plant (New)         5,344           Streft         3,955           Plant (New)         5,344           Pavilon         5,344           Pavilon         5,344           Pavilon         5,344           Pavilon         5,344           Pavilon         5,344 <td> Lation Addition: East - Lation Addition: South Eavit - Lation Addition: South West - Lation Addition: South West - 1</td> <td></td> <td>6.940 2565 3.350 1.354 1.354</td> <td>e</td> <td>,</td> <td></td> <td></td>	Lation Addition: East - Lation Addition: South Eavit - Lation Addition: South West - Lation Addition: South West - 1		6.940 2565 3.350 1.354 1.354	e	,		
mean         3350           ar Addition: South Eaw         3,350           ar Addition: South Eaw         5,332           ar Pavilien Nach         5,332           Plant (New)         5,731           Plant (New)         5,733           Plant (New)         5,733           Althoun         5,733           Sort         995           Plant (New)         5,733           Althoun         5,733           ar Advison         5,733	<ul> <li>- Lainer Audition: South Eawl</li> <li>- Lainer Audition: South West</li> <li>- Later Audition: South West</li> <li>- Later Audition: South West</li> </ul>		2566 3,350 1,394 4,710	74,702	Ŷ	¢	¢
ar Addition: South West         5,340           ar Addition: South West         5,340           15 Extension (Robert H M No)         5,533           16 Extension (Robert H M No)         5,533           27 AT         5,541           6 Extension (Robert H M No)         5,533           26 Extension (Robert H M No)         5,533           27 AT         5,533           28 Extension (Robert J arrel) South         5,533           28 Extension (Robert J arrel) South         5,533           28 Extension (Robert J arrel) South         5,233           29 Extent (New)         5,733           17 Pavilion         5,733           28 Extension Control         5,733           28 Extension Control         5,734           28 Extension Control         5,734	- Lates Articipion: Bouth West Indiv 		1,394	2.863			
a         4,230           Extension (Robert H M Kq)         7,341           Extension (Laurel) South         55,342           son Pavilion (Laurel) South         55,342           son Pavilion (Laurel) South         55,342           Pavilion (Laurel) South         55,342           Pavilion (Laurel) South         55,343           Pavilion (Laurel) South         5,344           Pavilion         29,554           Pavilion         3,42           Pavilion         7,432           Pavilion         7,432           Pavilion         7,432           Pavilion         7,432           Pavilion         7,432           Pavilion         7,432           Pavilion         5,733           Stat         5,733	- reaction reconstruits, whereas revealed		4,710				
E. Edension (Robert H. M. Hc)         7,241           E. Edension (Robert H. M. Hc)         5,535           aver Pavilien North         5,535           aver Pavilien North         59,535           aver Pavilien North         59,535           aver Pavilien North         59,535           Plant (New)         5,253           Plant (New)         5,253           Plant (New)         5,253           Plant (New)         5,733           Plant (New)         5,733           Plant (New)         5,733           Avert         3,111           avison         5,733           are defined         3,111           avison         5,733           are for Disease Control         5,734           a for for Disease Control         5,314				CUN, CT	1,394	1,334	394
Fischerist H Mics)         6,555           Exchangion (Robert H Mics)         56,555           Standing (Larrel) South         55,552           Standing (Larrel) South         55,322           Standing (Larrel) South         55,323           Pisant (New)         57,333           Pisant (New)         5,733           Pisant (New)         5,733           Pisant (New)         5,733           Solar         5,733           Solar         5,734           Solar         5,733           Solar         5,733           Solar         5,734           Solar         5,733           Solar         5,734           Solar         5,733           Solar         5,733           Solar         5,733           Solar         5,733           Solar         5,734           Solar         5,314	× 5200		7.241	1.22			
and Favilian (Larrel) South         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,332         55,432         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,114         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322         74,322 <td>A Bell Extension ( Robert H N Mu)</td> <td></td> <td>5,505</td> <td>59,255</td> <td></td> <td></td> <td></td>	A Bell Extension ( Robert H N Mu)		5,505	59,255			
asin Parelian Marth         29,571         3         3         3         3         3         3         3         3         3         3         3         3         3         4         2         3         4         2         3         4         2         3         4         3         4         3         4         3         4         3         4         3         4         3         4         3         4         2         3         4         2         3         4         3         4         2         3         4         3         4         2         4         2         3         4         3         4         1         1         1         1         1         1         4         3         4         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>Pathson Pavilion (Laurel) South</td> <td></td> <td>55,832</td> <td>500,971</td> <td>5</td> <td></td> <td></td>	Pathson Pavilion (Laurel) South		55,832	500,971	5		
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SubTetai 1 203,825 3,334,928	th Testail 1		309,825	3,334,928	309,114	74,885	74,243

Use/Building	Maximum	Floor At Maximum Allowable=	Floor Area (m <sup>5</sup> ) owable=		Site C	Site Coverage (m²)
	Permitted Maximum	om (g. 2.0 Current (m)	1.343,000 MT 02, 4.5 F.SK # 3611521 MT Red Current Current Propos turn (mr) (mr) (mr)	Proposed (m <sup>2</sup>	55% N Current (m <sup>2</sup> )	55% Max-75,500m <sup>2</sup> ant Proposed fm <sup>2</sup>
	(m²)					6.1.4
RESTRICTED USES:						
Medi-Tech: MT-1	59,920					
M1-2 MT-3 (Blusson - ICORD) MT-4 (Changed to patient care see above) MT-50		10,196	109,749	10, 196	1,790	1,7%0
SubTotal 2		10,196	109,749	10.196		
Health Care Office:	1,515					
Retail:	2,594					
Restaurant:	928					
Seniors Supportive Mousing:	20,976					
Muittple Dwelling: Nurse's Residence Site	13,935	13,935		13,935	1,550	1,550
Multiple Dwelling Conversion: Nurse's Residence Conversion Community Centre Child Cone	7,041	7,041		7,041	1,790	06271
CulturalRecreationRetail:	1,400				>	
SubTotal 3		20,976		20,976	3,340	3,340
GRAND TOTALS (Subtotals 1+2+3):	361,621	340,997	3,444,677	340,286	78,225	77,583
(20108/1891911-1-9).						

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

DEVELOPMENT STATISTICS

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Appendix : page S of Ho

Appendix D; page 4 of A

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

the Willow Street frontage and some 4 metres at the western site limit. The of a metre along the south limit, from Wilkow Street to the western boundary. The site is currently occupied by the Willow Chest Centre which along with

one-half metre along the north limit, and rising approximately three-quarters. The site stopes down approximately 2.5 metres from south to north along property is essentially level in the east-west direction falling approximately

Research Pavilions, and consideration of future hospital development. include the Blusson Pavition to the north, the Centernial and Willow westerly extert of the site is limited by the existing Centernial and The resulting site dimensions are 40 metres fronting Willow Street Avenue pedestriari corridor alignment west of Willow Street. The and 57.6 metres in the east-west direction. Adjacent buildings Pawilions to the south, and the Research Pavilion to the west.

itrait is taken as the retaining wail separating the Willow Chest Centre exception of Wilcow Street, the denormations of this are defined by surrounding contributs rather than existing property lines. The north General Moster Paun inducting a desire to continue the 19th The site is located on the west side of the Willow Street Corridor immediately south of the Blusson Pavilion (ICOFID). With the

from the Blusson Pavilion. The south limit is guided by the Vancouver

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### Context

Joseph and Rosalie Segal Family Centre | 2647 Willow Street

N 2008

Heather Common, a major open space created by the demolition of various cutchated patient care, aducation and support buildings in the area. Design metres for occupied spaces and 42.7 metres for penthouses. There is an additional guideline to express a curnice line at a designated site elevation for use for health care services, one of six such sites interided to front the guidelines adopted with the reconing contemplate a basic building height Medical-Technology Research & Development building, with the option of 26 metres, with provision to increase portions of the building to 38.4 This site was identified in the 2004 Master Plan as appropriate for a

Following a 2005-6 decision to expand and consolidate mental health services on the VGH campus, and with reduced and redirected demand for Medi-Tech PAD facilities, this site was identified as having the following attractive characteristics to accommodate a new building for secondary mental health services:

 proximity to other mental health, diagnostic and treatment services to ensure clinical and operational visibility

easily linked to existing service turnel system

adequate footprint area and building height to

accommodate functional program

fronts the future open space of, and offers views out to, Heather Common

stand-alone identity for donce recognition

PAGE A3

DESIGN RATIONALE

related subgrade service turinels will require decarding, recouting of services and demonstration prior to construction of the rew building. In addition, use the helendons material shorage sheds. Service to the Research Pawillon, row provided from the Willow Ofeest Centre loading dock, will be routed of this site will require relocation of the bulk medical gas tank farm; and in future through a new tarries coursection to the Centernial Pavilion.

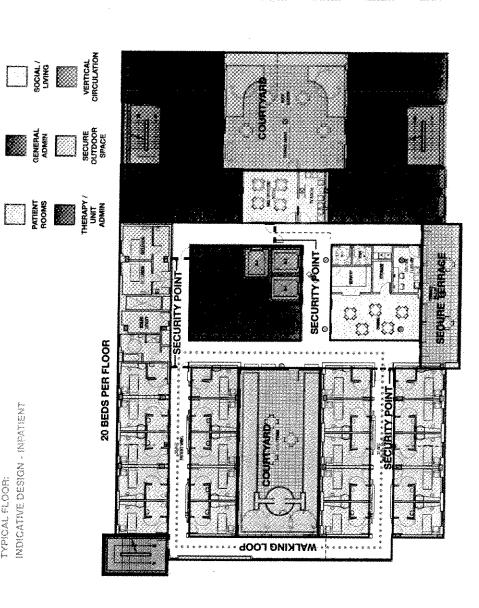
pedesitian access will be from 10th Avenue along the Willow Street algoment trainsport and service vehicles will also use this route. Access for mechanical paint the Conternial Pavilion and exiting to 10th Awence. Authorized patient withour flight or filth Avennues utilizing existing traffic tanes. Until the Willow is also a requirement to maintain a service vehicle route from 12th Averue in the next term vehicular access for patients and visitors can occur from Pawkon is replaced and/or new acute facilities are built to the west, there and electrical equipment servicing, and to blue payving, will be from 10th Average using the existing lare west of the Blusson Pavilion. Primary

### wergeram

Husepital and USBC Hosepital. 100 single occupancy patient rooms including accommuniate building services and blea storage tacilities for site wide use. support services and administration areas, covering several mental health Assertive Community Treatment (ACT) Program, the lowest level will also several buildings at Vancouver General programs, will be located on five arpatiant thoors. The two lower floors of the building will be used for outpetitent mential health services and the The proposed eight storey Joe & Hosale Segal Family Centre (JRSFC) will consolidate multiple existing mental health services and programs that are currently distributed over

successifully turn mental health programs, furthermore the current standards outdated infrastructure. After the completion of Joe & Plosale Segal Family Centre and relocation of patients from the Health Centre the latter will be provide this access to natural light and secure outdoor space needed to per 24 patients is in urgent need of replacement. The building does not demoilshed and replaced by a park accessible from 12th Ave. This park of patient and staff safety and security carries the met any tonger by the the Health Centre building on the Vencouver General Hospital campus. The aging Health Centre has been used for mental health programs for several decades and with its shared patient rooms and 4 washingoms The majority of the inpatients in the new tackly will be relocated from is part of the CD-1 zoning agreement known as heather Commons.

INDICATIVE DESIGN - INPATIENT TYPICAL FLOOR:



Appendix D; page 5 of #0

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

DESIGN RATIONALE

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## Design Objectives

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patient centored lackity by the suprovement of mental health in The intert of the project is to provide a torward thinking. Baliati Columbia by Iurthering the following objectives

- askites itre sigmale associated with mental health
- strue for transparency and awaretees of integrated care for patients and families ÷
- utitier programs responsing to individual meets and atreams of care

87.77**7** 

- exertativity-coased programs for patient/client populations in Vancosiver create seamless acreas to acute secondary psychiatric services and
- implement eveloper-based bost practices
- metel painte, respect, and dignaly in parisons and staff

- prorests stressilion, flexibility, halase-proofing and care team synergy
  - RIGERADARDER ARGENERSED ADDRESSING

To this extert the building design has been based on the following guiding design principles-

## Healing Parient Environment

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CENTRE -

## Architectural Response

Street Corridor and connecting Levels 1 and 2 permitting those arriving at either site grading to create a double-height entry court facing the landscaped Willow staff and visitors. The entry court also creates strong visual interest along the east façada that is stepping down with the grade change to minimize blank level to readily move to the other, or to the floors above. The interconnecting waiting areas further enhance the welcoming and uplitting setting for patients. The proposed design for the Joe & Hosale Segal Family Centre exploits the well areas. Highly transparent this aspect of the building exterior articulation stair in the entry lobby offers an option to elevator use and the seating and references the lokby space of the adjacent Blusson Pavilion, engages the public, contributes to the overall quality of the VGH campus fabric, and will ultimately offer spectacular views out to the Heather Common.

at Level 2 has a separate entrance on the South side of the building and also allows efforts to reduce vehicle traffic to and from the site. The second level of the building, building and proceed to leave the site at 10th Ave. The outpatient program located which is at grade on the south side, is out back to allow service vehicles accessing for conversiont patient drop off by car entering the site from 12th Ave. All building entrances will be provided with weather protection. The entrance canopy on the the Centernial Pavilion loading dock to pass undemeath the upper floxes of the storage area that is intended for she wide use furthering the hospitals ongoing The north side of the building at Level 1 provides at grade access to the blke east side will provide continuous protection along the Willow Street corridor.

new building through a corridor along the south wall of Level 1 which will and other centralized campus services. Turnel trikages to the Research Pavilion lost through the demonition of the Willow Chest Centre will be reprovide direct access to the elevator core for delivery of food, laundry The existing campus wide service tunnel system will be linked to the established with a new north-south link to the Centernial Pavilion.

## **Building Massing**

element to facilitate the interior circulation. Outpatient and Assertive Community units above Level 2. The western courtyand is enclosed by a transparent bridge occupy the tuit available floor plate, forming a building podium and creating the courtyards recessed into the East and West facades and alternating terraces Treatment (ACT) programs are accommodated below the inpatient units, and on the south facades and within the East courtyard starting at the inpatient base for the two open courtyards of the H-shaped inpatient floors above. The overall massing of the proposed development is articulated through

penetrate deep into the floor plate resulting in light filled and alry common areas on all patient floors. The shakow depth of the building wings ensures that secured outdoor spaces for patients and staff to enjoy it also lets dayight virtuality all rooms on the patient floors will have direct access to daylight. The H-shape of the upper floors not only creates ample opportunity for

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

provision of natural light to, and outdoor view from, elevator lobby and the CTB

associated functions, for overall effectiveness and efficient

management of patient care (safety, elopements)

centralized location of circulation and service core, and

to, and visual (werview of, patient bedrooms, elevator entry and

program areas, in consideration of current statfing levels

strategic location of Care Team Base (CTB) giving easy access

creation of looped caculation corridors for easy and open

patient access and movement during daytime travel distances for night-time staff coverage

ability to secure patient bedroom areas and minimize

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DESIGN RATIONALE

Appendix : page of 40

with the CD-1 zoning requirements. The overal height of the hulding is 8 storays. tagade finish connoides with the shoulder line height stipulated in the Master Plan expression changes to become more transparent. The stepping and change in to establish a continuous street wail to trame the future Heather Common. The Above Level 6 the building is stepping back from the East side and the tagade guidelines and the top floor parapet of the adjacent Elusson Pavilion, intended including the mechanical penthouse and Level 1 which is partially below grade. roof garden, featuring weather protected seating, activity areas and extensive building root above the Level 7 inpatient floor, outside of the space occupied landscaping. The proposed overall building height and setbacks correspond by the mechanical penthouse has been designed as a patient accessible

### Building Exterior

claditing, exterior grade wood verwer pareling and glass. These exterior meterials wood finishes providing the backdrop tor the landscaped cuttoor areas for patient buildings, from the more inwards criented elevations, warm, muturing and natural and public use. Continuous glazing is concentrated on the common areas of all clearly activities and at the same time restrict the overall window wall ratio to allow have been used to differentiate the outward facing facades, cool and restrained for an energy efficient building design. The puncted window openings tor other patiant floors in an affort to maximize the access to daylight for patients during The material palette for the proposed building consists of high quality metal metal mainly corresponding with the hospital campus and its existing VGH areas of the building integrate fixed sun screers to mitigate solar freat gain

healing environment for the lPU was instrumental in generating overall building predominant component of the building program, development of the best As the 100 bed inpatient Linits (PUs), with five 20-bed groups, are the form. The proposed design achieves important objectives including:

- use of open courtyards to provide natural daylight access to all areas
- provision of easy access to outdoor courtyards and terraces tor therapeutic benefit of both patients and staff
- common patient social areas, the clinical treatment/therapy separation of the private zone of patient bedrooms, the zones, and the sexue administration/staft areas

creation of double height tenaces on each IPU to provide pleasant, safe and secure outdoor space, reinforce the non-institutional therapeutic healing enversent, and offer exportantly for architectural expression

organization and planning of all floors optimized opportunities to focus on the following priorities: Given the various site constraints and proximity to surrourding existing braidings, the internal

- assume that to all patient accommodation and treatment areas. staft working ateas, elevator kobbies, and main circulation routes
- astray of common atteas including small founges and quiet, comfortable meeting places tostering interaction and active social engagement for patients with easy access to an and, on the IPUs, diving and activity mome. TV lounges, laundry, library, and tenaces
  - clear, intuitive wayfinding and ease of circulation to minimize stress due to confusion or disorientation.
- strong visual connection from unit entry and other key areas to Reception and  ${\rm CTEs}$  to create positive interaction between patients and staff
- creation of safe work and treatment environments
- dasy access to dedicated staff areas for off-stage reveat

### Sustainability

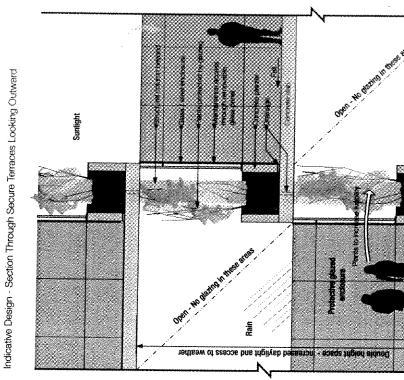
ener Line The sustainability goal for the Joa & Rosaele Segal Family Centre is LEED gold. building systems will be designed to be compatible with the current and future carripus evergy systems. Details of the building systems as well as the overal erergy modeling will be finalized chaing the subsequent detailed design

insteadd the provision for bicycle parking spaces with associated locker rooms and showers, stickuoling a parking demand survey. Their findings indicate that the utilization of the current burst & Associates Transportation Planners and Engineers provided a detailed study of the others as the main reasons behind the declining parking demand on the campus. Based improverments to the public transportation systems, mainly the completion of the Cenada over and above those required to serve the building, have been included. These facilities carpooling, subsidized transit passes, cycling measures and custom tus service among existing and hiture periong capacity at Vancouver General Hospital in November 2012. ore this shuty the building program does not include additional vehicle parking facilities. parking capacity on site at peak times lies at or below 80%. They identified the recent are located at Level 1, easily accessible at gradic directly trem the 10th Ave bike route. Lirre, and organing efforts by the hospital to reduce vehicle traffic, such as promoting

Print to the construction of this project the gas tank larm, providing bulk storage of medical servarate Development Permit application. With the oxygen storage facility at the Meditech gases for Varyouver General Hospital, will have to be relocated. The hulk oxygen storage tacing the pocket park currently occupying the Meditech 2 site. The bulk nitrogen storage trown 10kh Ave will also be screened by landscaping. These projects will proceed under a will be located at the access ramp to the central VGH loading dock of 10th Ave the view between the 1/1th Ave comider and the UIBC Alumni building. The oxygen storage facility will be tecting the 12th Ave larve and will be scressred on all sides including landscaping 2 site the remaining foot print of the site will allow for 9,620 m2 of future development. tarks will be moved to the Meditech 2 she located at the east side of Heather Sheet

DESIGN RATIONALE page A6

Appendix D; page / of Ho



JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

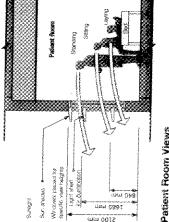
EXPERIENCING PLANTS AND THE WEATHER

INDICATIVE DESIGN -

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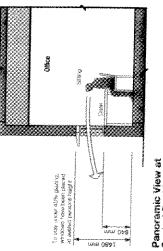
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## Pancramic View at Seated Position in Offices

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Landscape Response

## Willow Street Pedestrian Corridor

building. Grade changes will be made by creating stoping planes of ground Corridox, the pattern of paving using a concrete sidewalk with granue block detailing at the edges, tree planting with double rows of large calipor Beech To continue the strong and formal geometry of the Willow Street Pedestrian elevation, yet providing tuit handicapped access to the building entrances. trees and mass planting of Pachysandra in the large square planters will be extended south to a grid pattern along the east perimeter of the new covers, and adding steps and seating walls to create simple changes in

# Landscaping at Joe and Rosalie Segal Building

provide seasonal variety, texture, and tragrance. Large courtyards in the lower areas wekcoming and usable green spaces at every building level, some large, some small user experiences, with simple geometric forms so patients can be alone or gather in for any horticulture therapy exercises that staff may organize around the space, and small groups as they use the space. In all cases the exterior terraces are protected This landscape for the Joe and Rosalie Segal building has been designed to create between the courtyards and adjacent offices, and water features offer white noise with tail glazed screens with trees planted on the outside of the screen halfy visible from within the protected area. Ample garden spaces at the root top are available green walls of climbing vines, and raised planters planted with shrubs selected to Patients will be able to access green spaces at terraces where we propose twing utitize shade tolerant broadleat shrubs and small trees to provide builter planting to give a calming effect to the courtyards. The rooftop gardens offer a variety of the space is flexible enough to situate furniture, tables, chairs as the need arises.

# The First Phase of the Health Centre Demolition site

this plaza to weikways and parking north of the small park space. Upper and lower downhill in a pair of stepped walks that arrive at a lower plaza, which serves as an The Health Centre site will result in an open space from 12th. We have organized the space with a simple pattern of sidewalks focusing on the central spine of the space which has a small plaza with sealing and access walloways heading north exit to an elevator shaft from underground tunnels. Diagonal walkways connect plaza are universally accessible from 12th Ave and the service lane respectively.

## Residence, Tzu Chi, and Power Plant buildings Future Phases - Demolition of the Doctor's

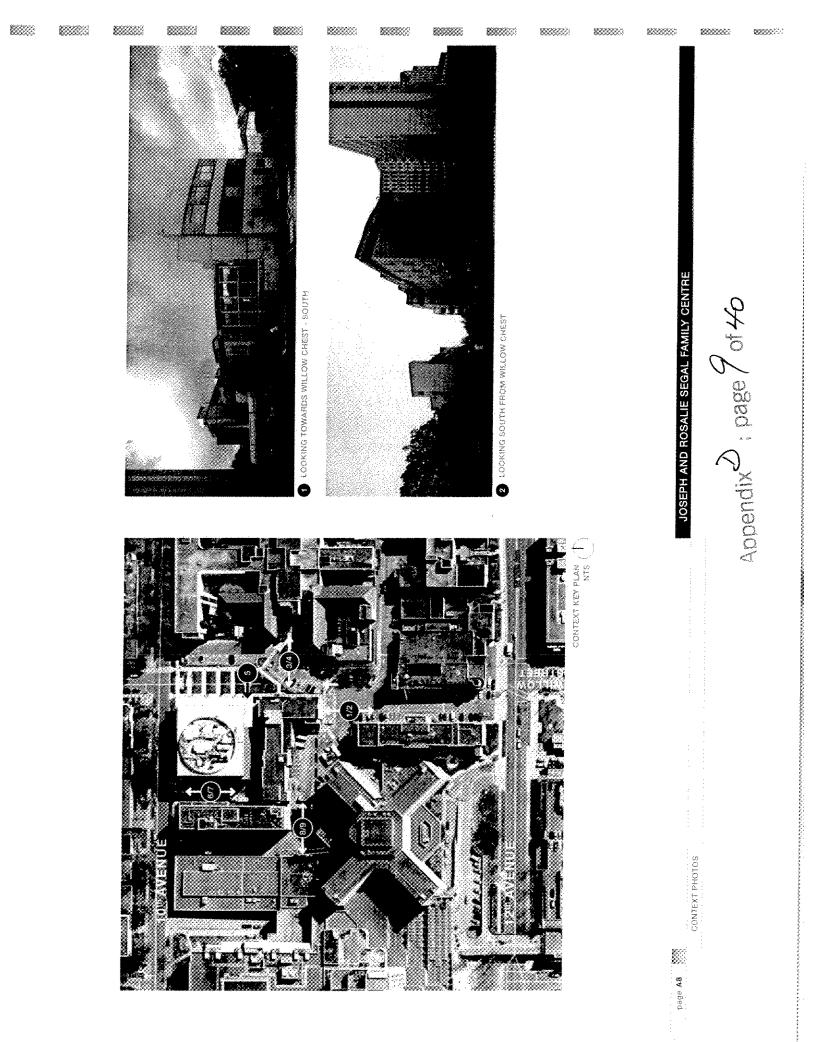
construction, the north vehicular driveway will be replaced with a pedestrian corridor, southeast corners of the park, again directing pedestrian circulation to the alevator When the Doctor's Residence. Tzu Chi and Power plant buildings are removed sheft exit, and parking spaces north of the park. In the finel phase of the park the circulation by re-constructing the diagonal walkways to the southwest and that connects to the completed north/south Willow Street pedestrian consider. in the future the park space will become enlarged, east and west, expanding

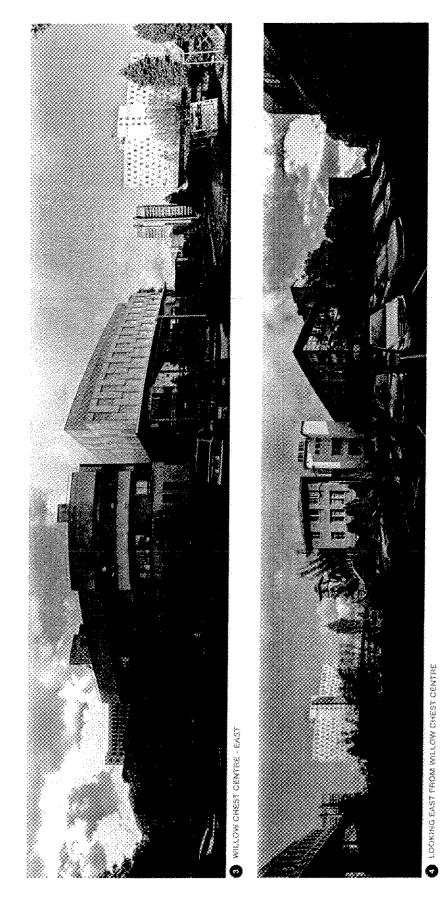
Appendiv : page f of 40

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

PAGE A7

DESIGN RATIONALE





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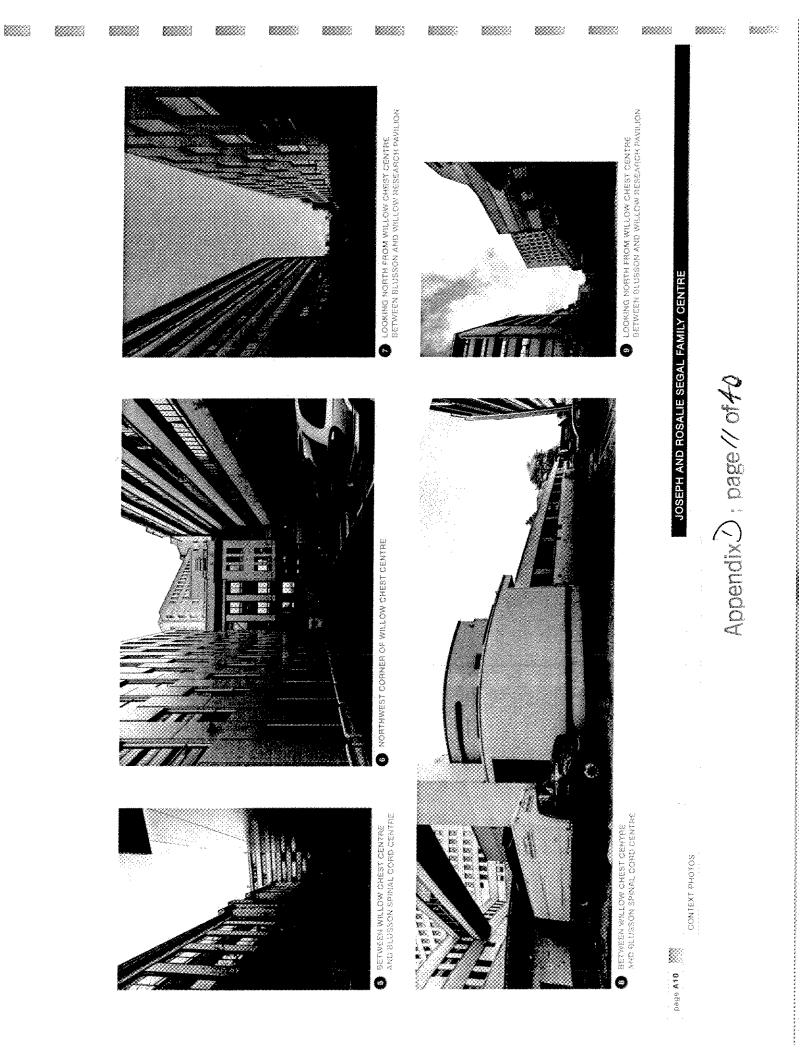
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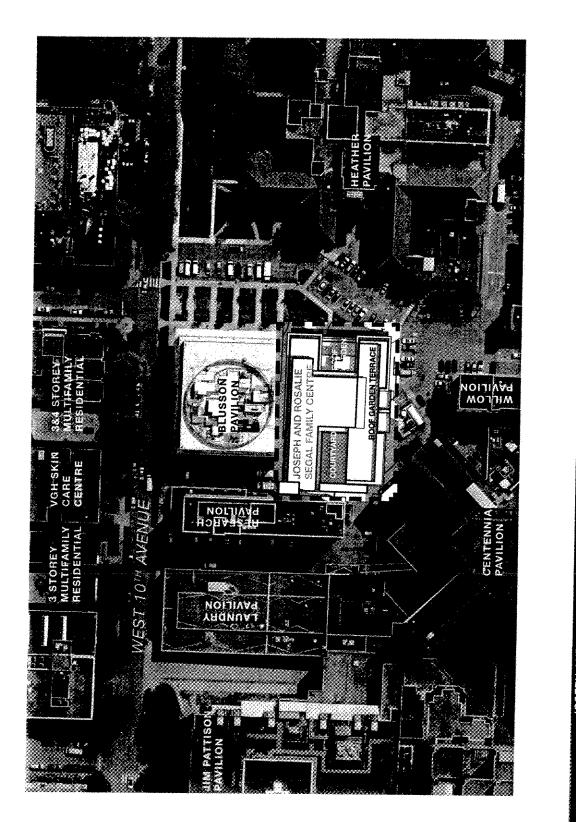
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CONTEXT PHOTOS

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE





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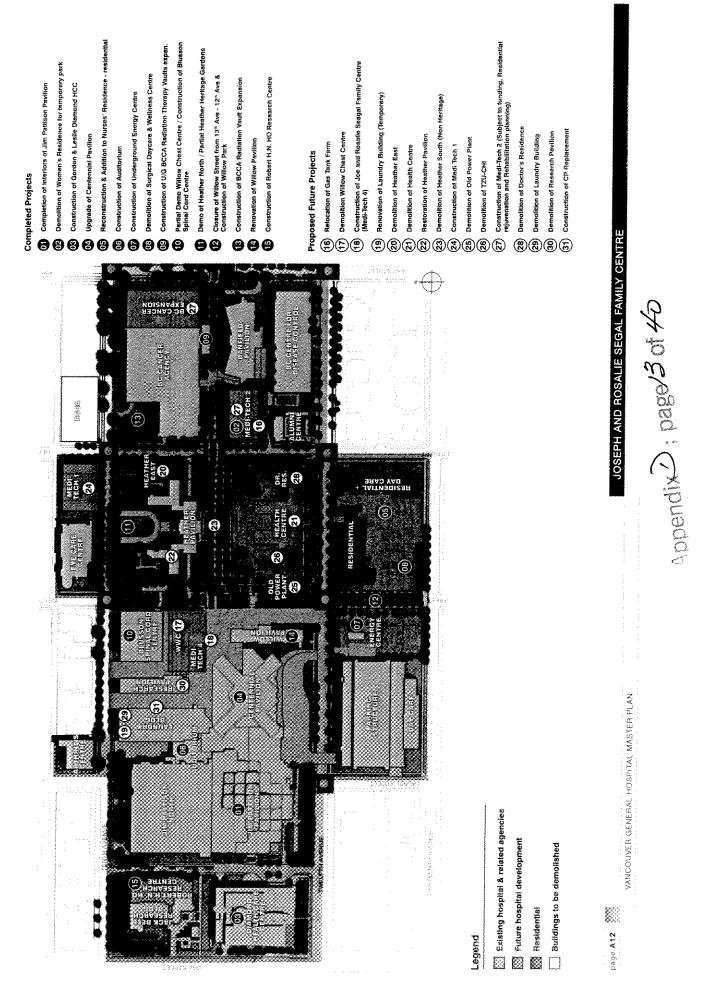
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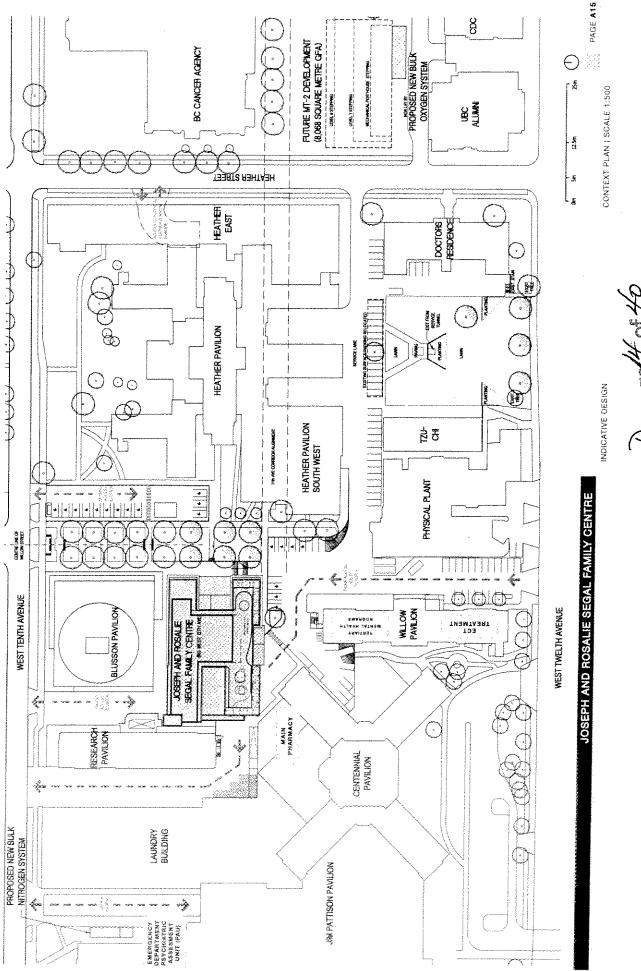
PAGE A11

AERIAL SITE PLAN | SCALE NTS

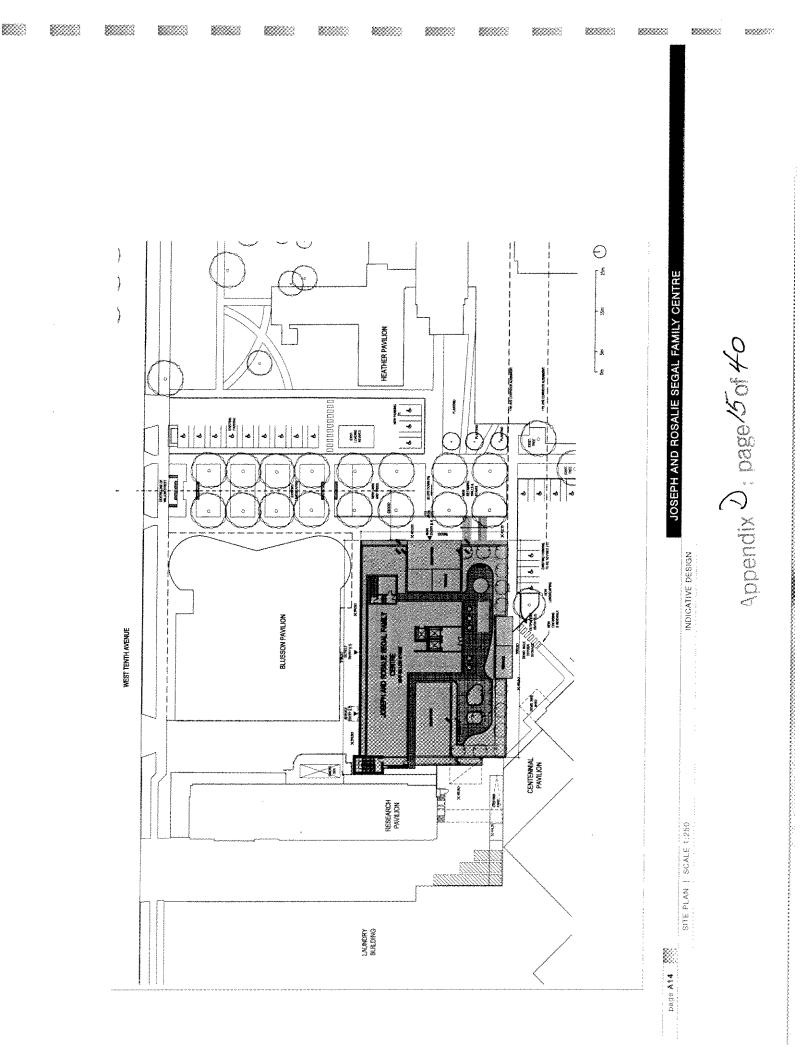
JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

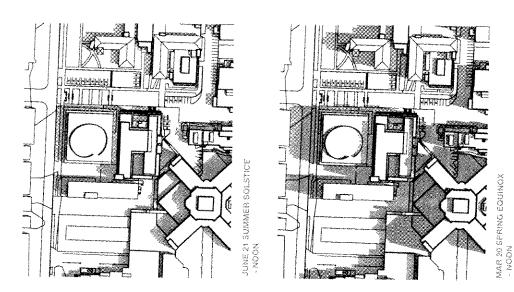


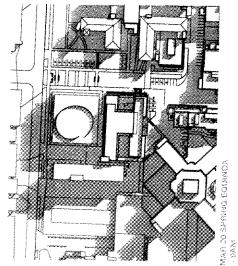
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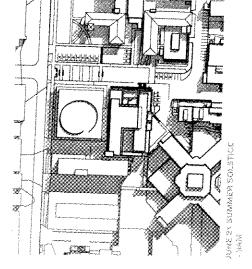


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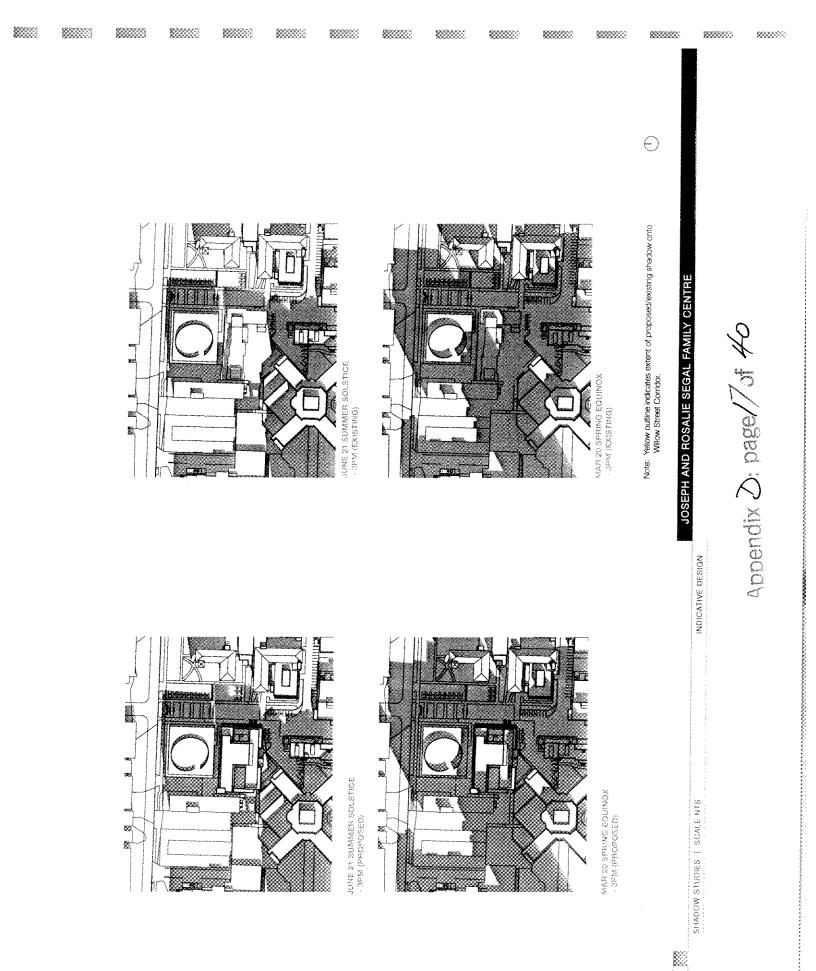
INDICATIVE DESIGN

JOSEPH AND ROSALIE SEGAL FAMILY CENTRE

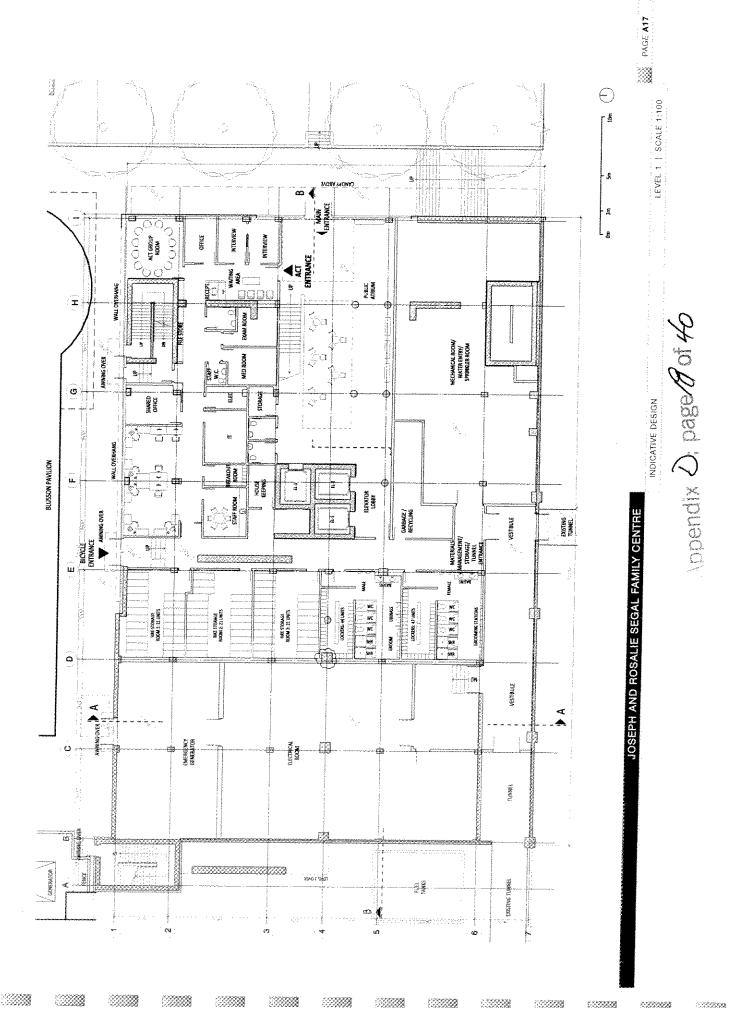
PAGE A15

SHADOW STUDIES | SCALE NTS

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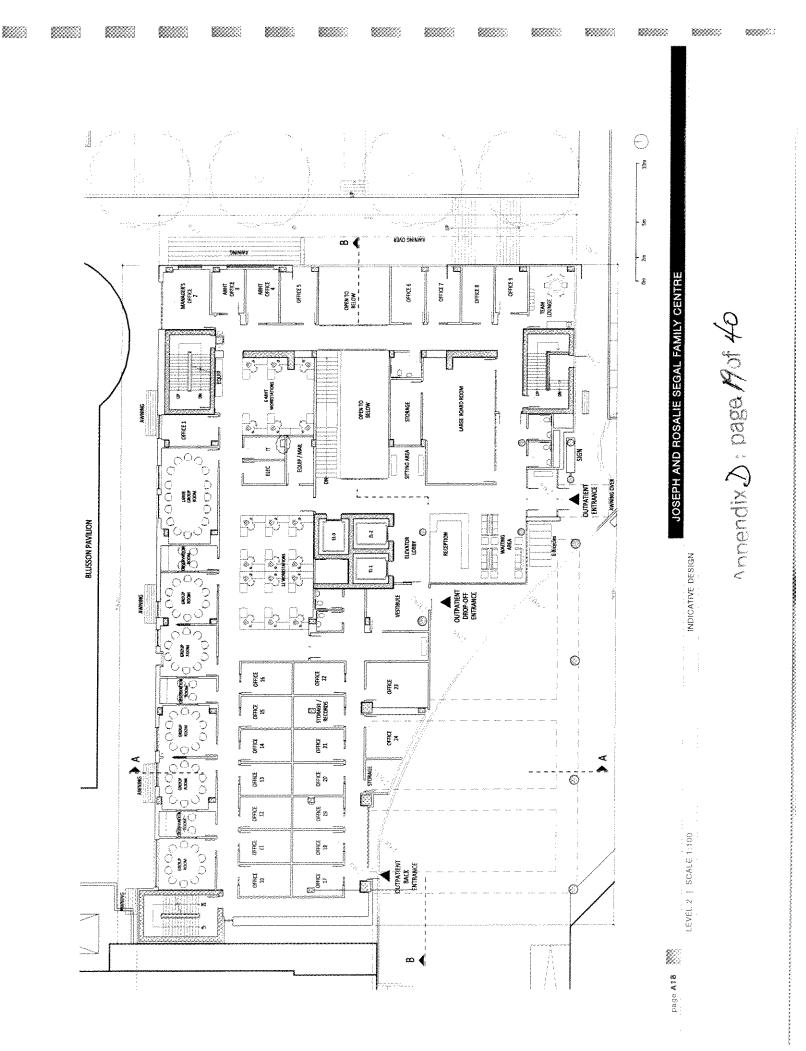


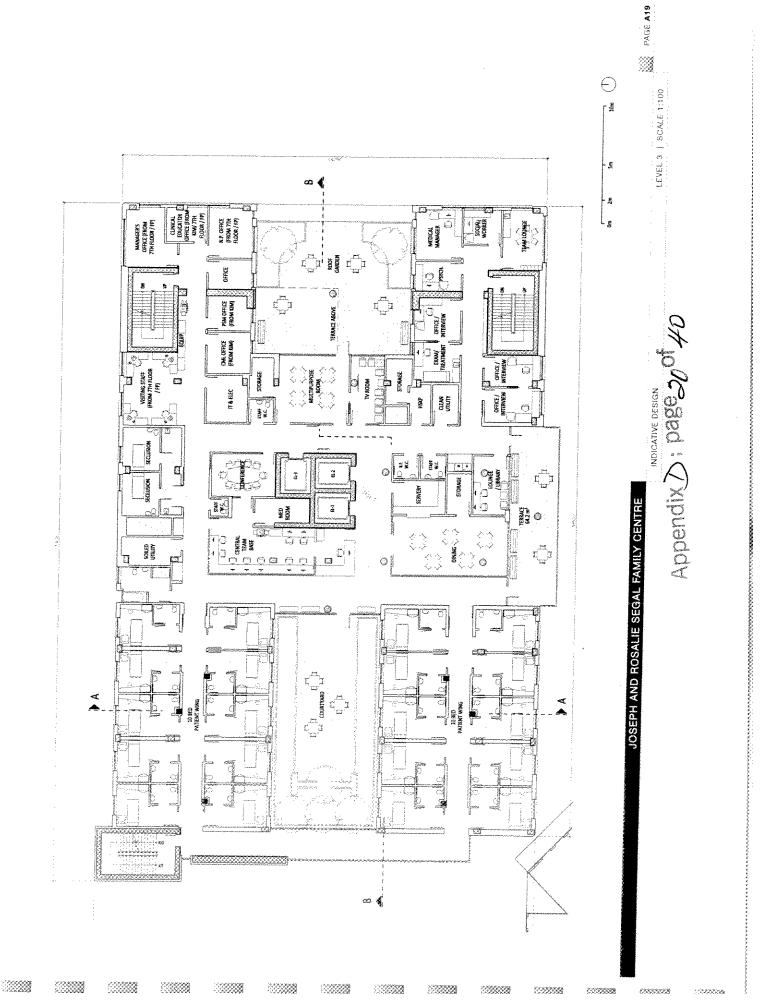
page A16



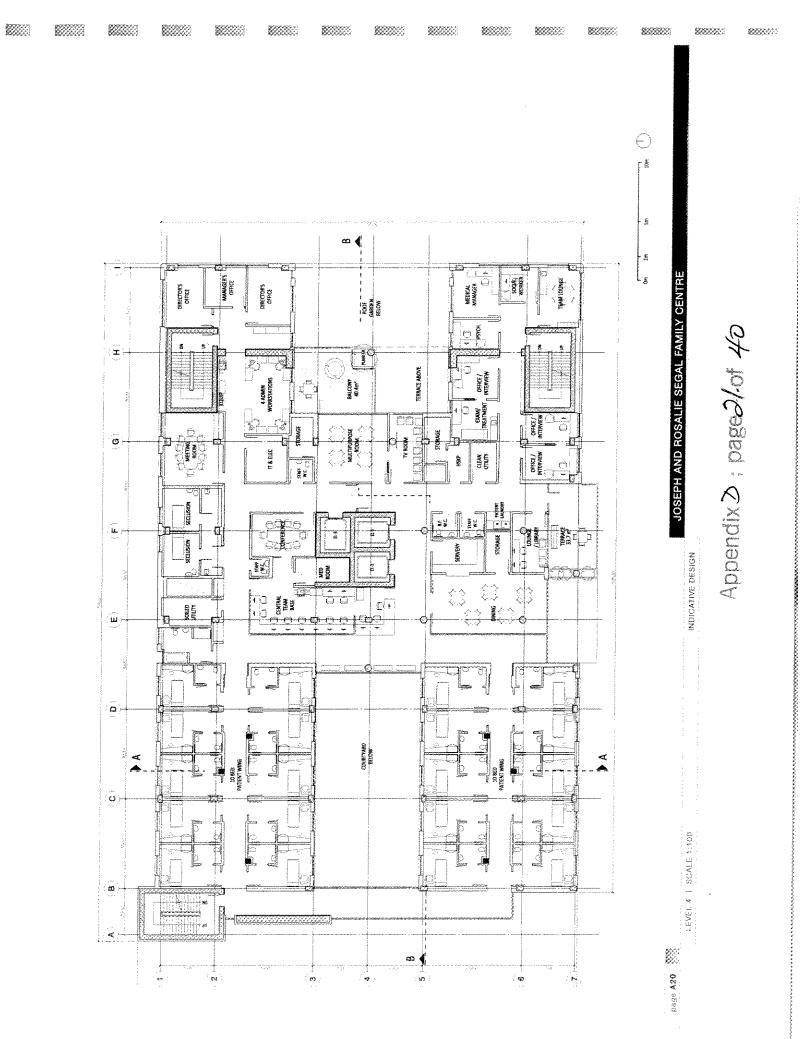
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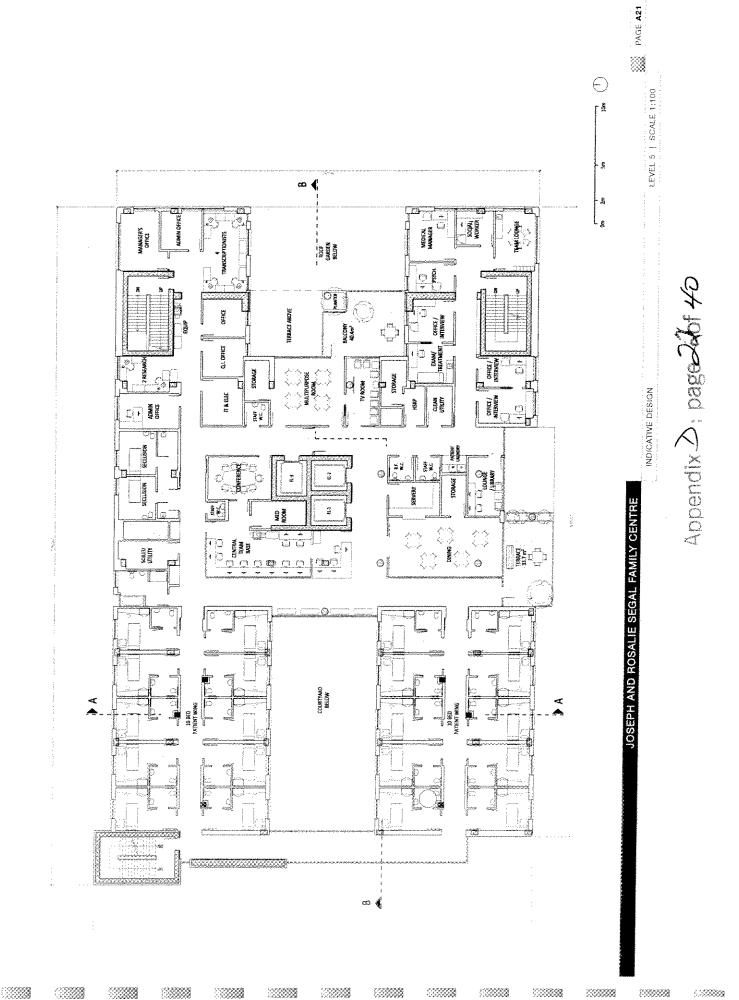
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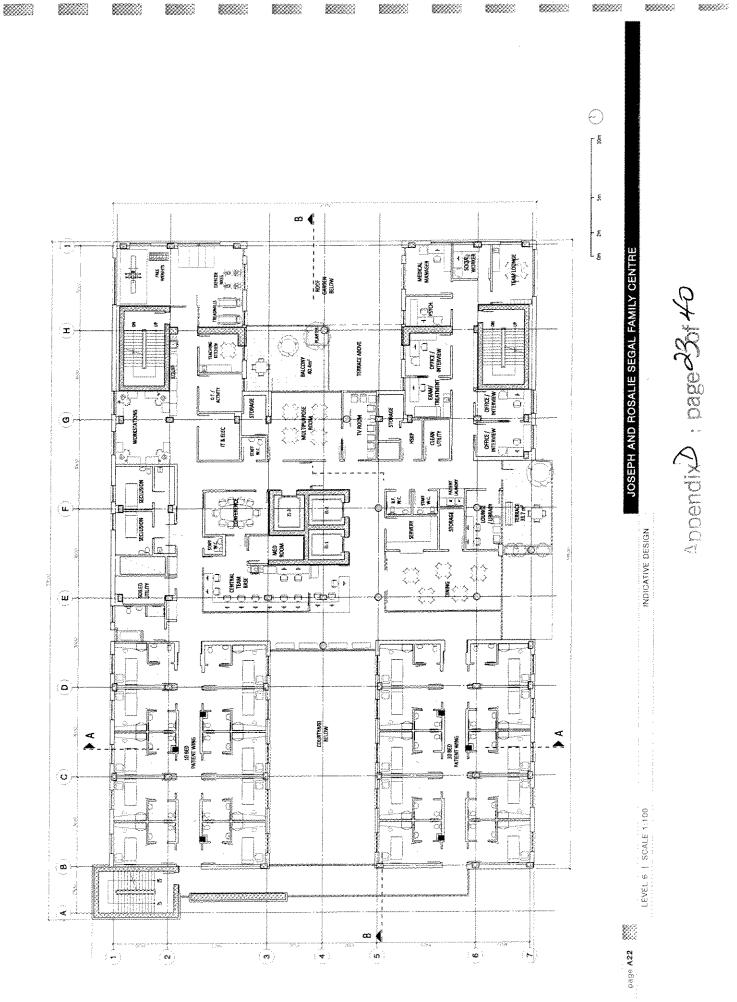




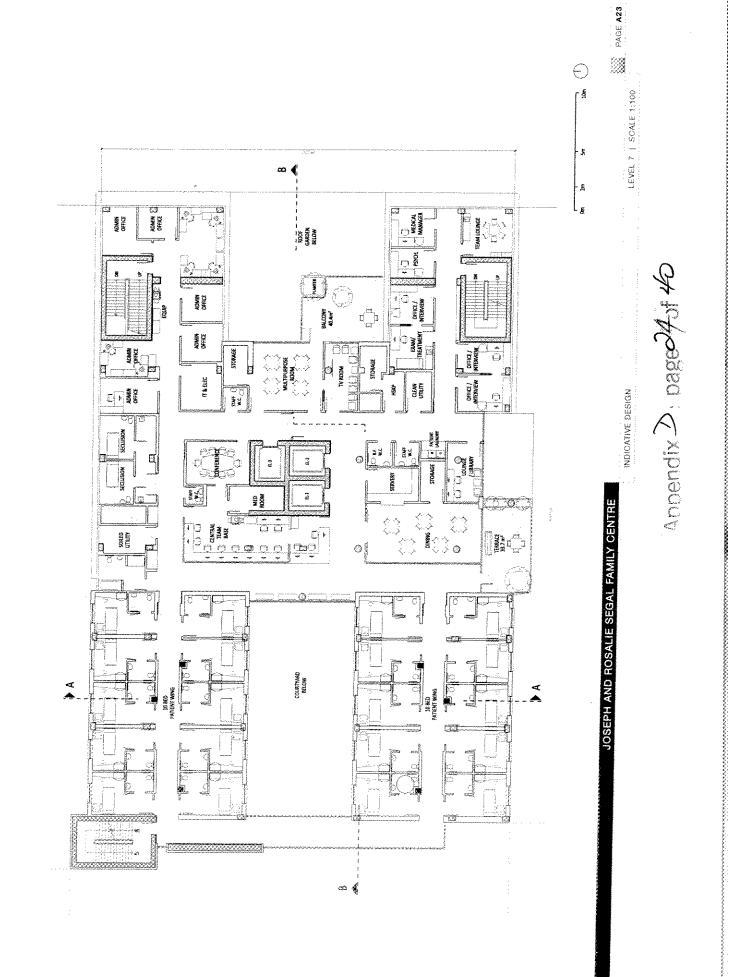
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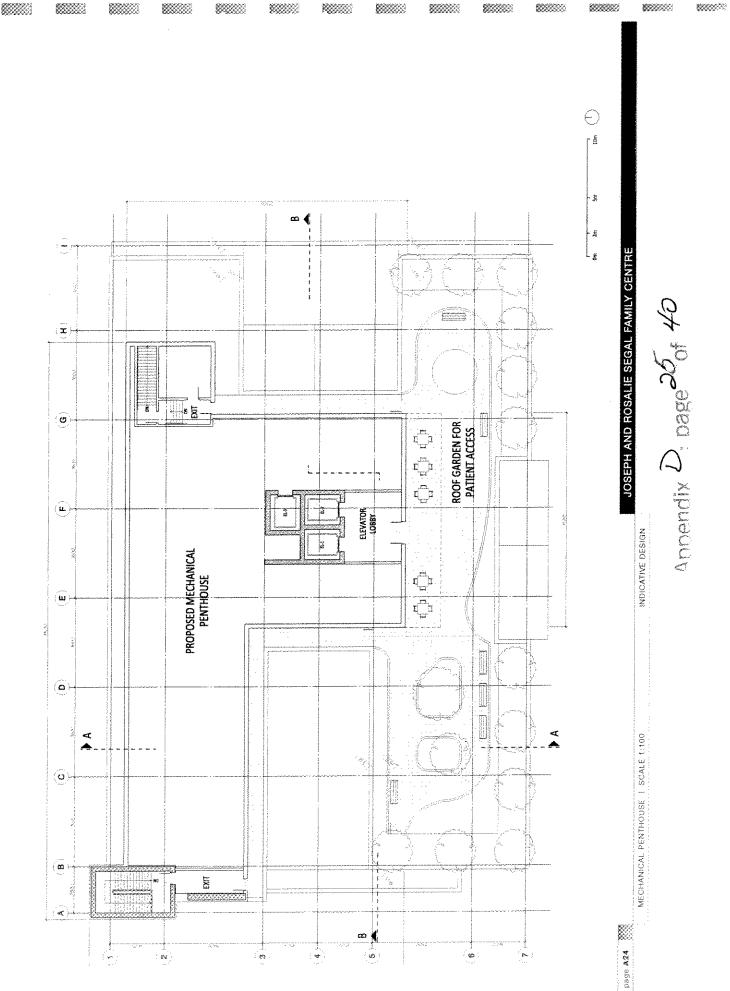
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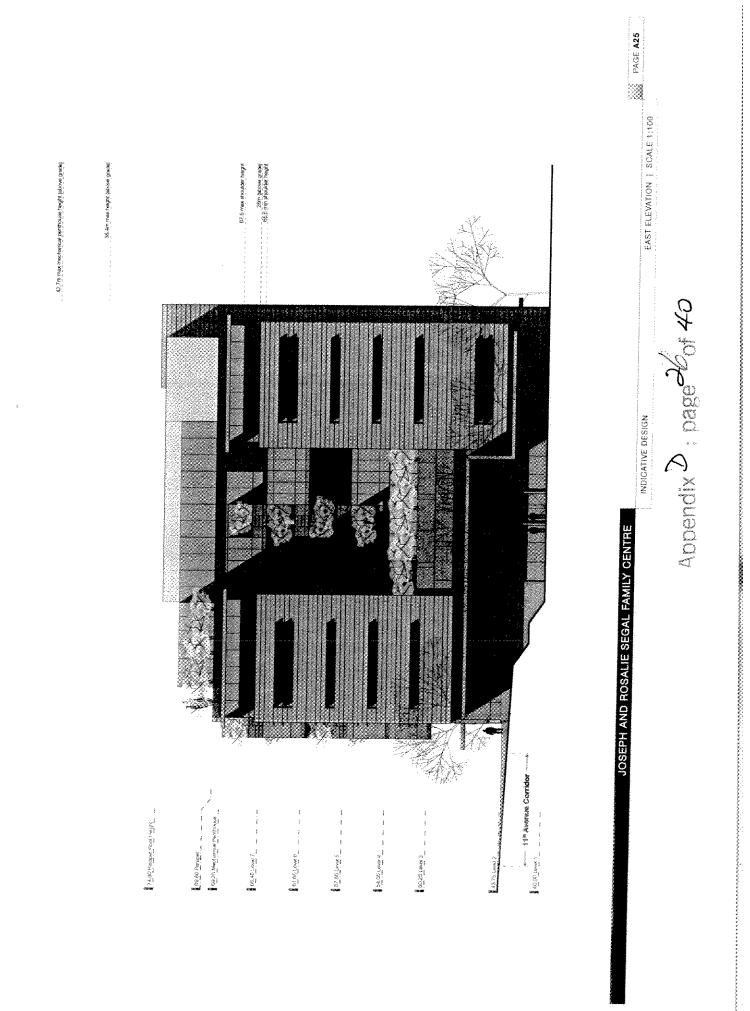
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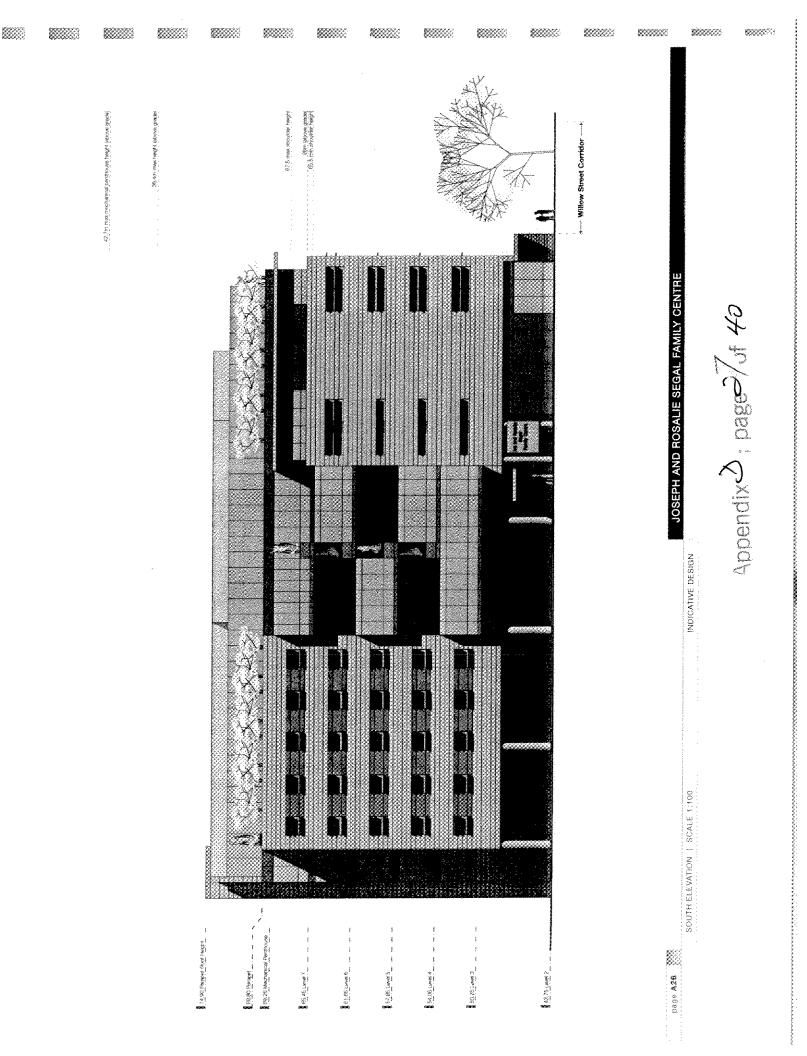
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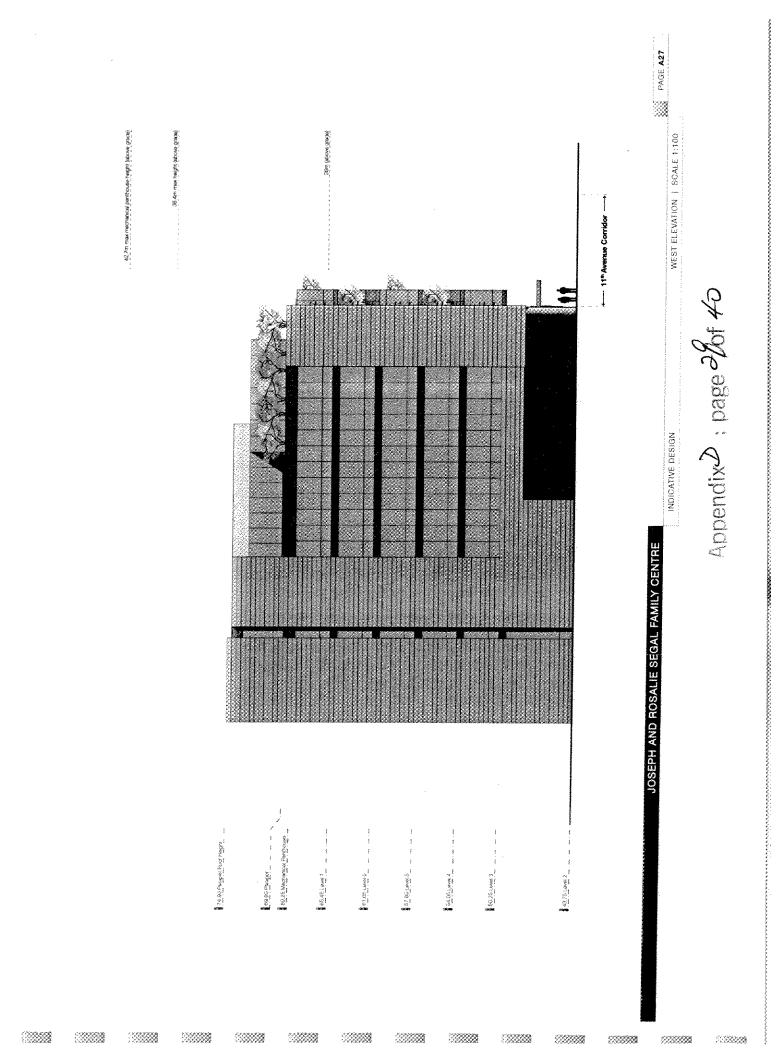
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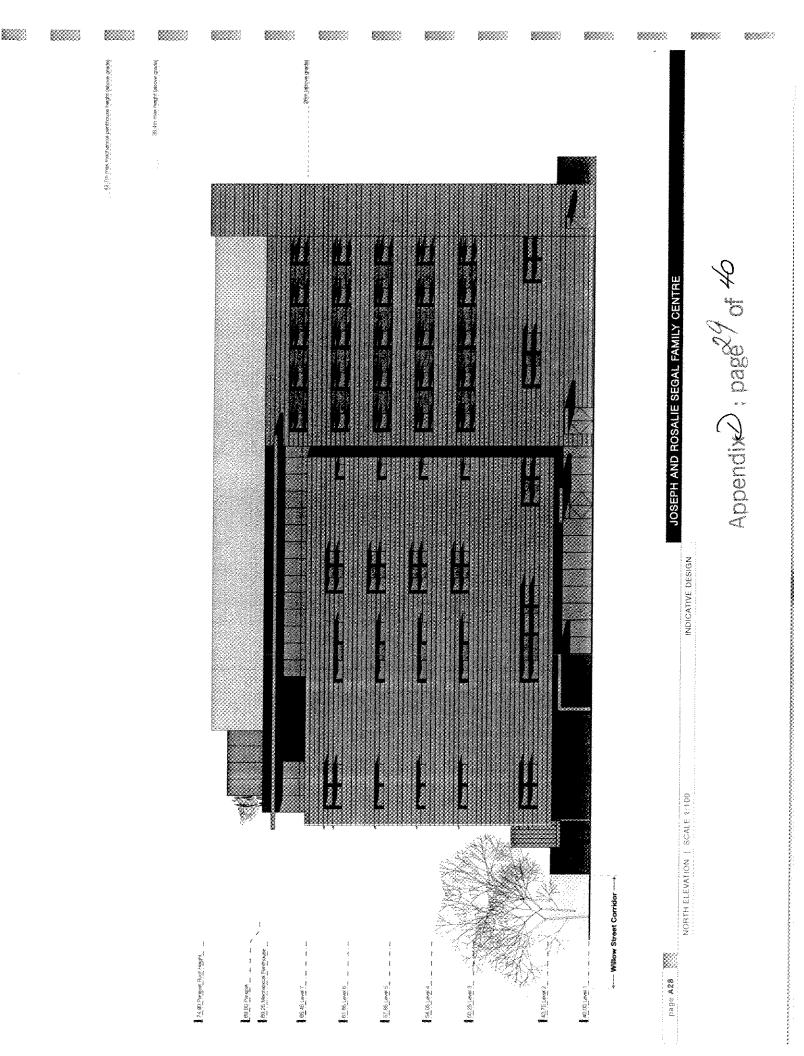
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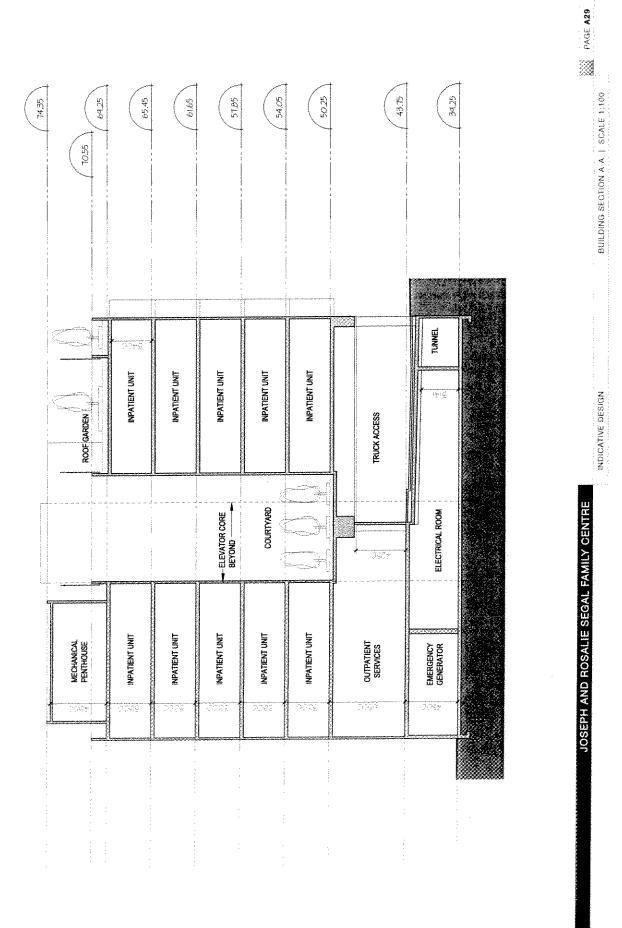
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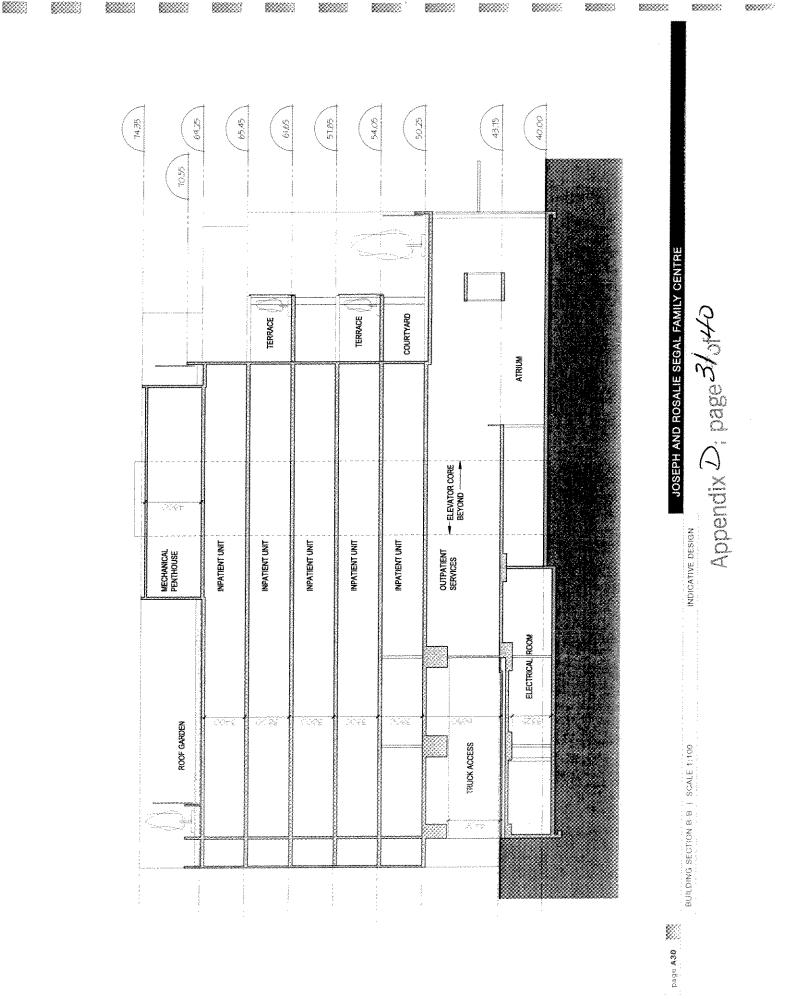
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INDICATIVE DESIGN

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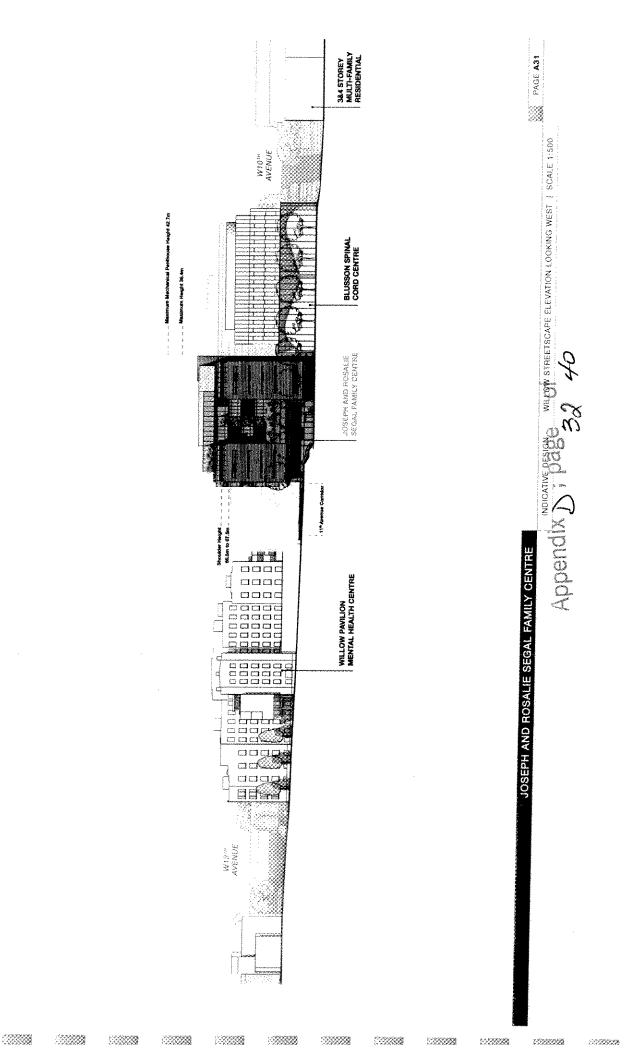
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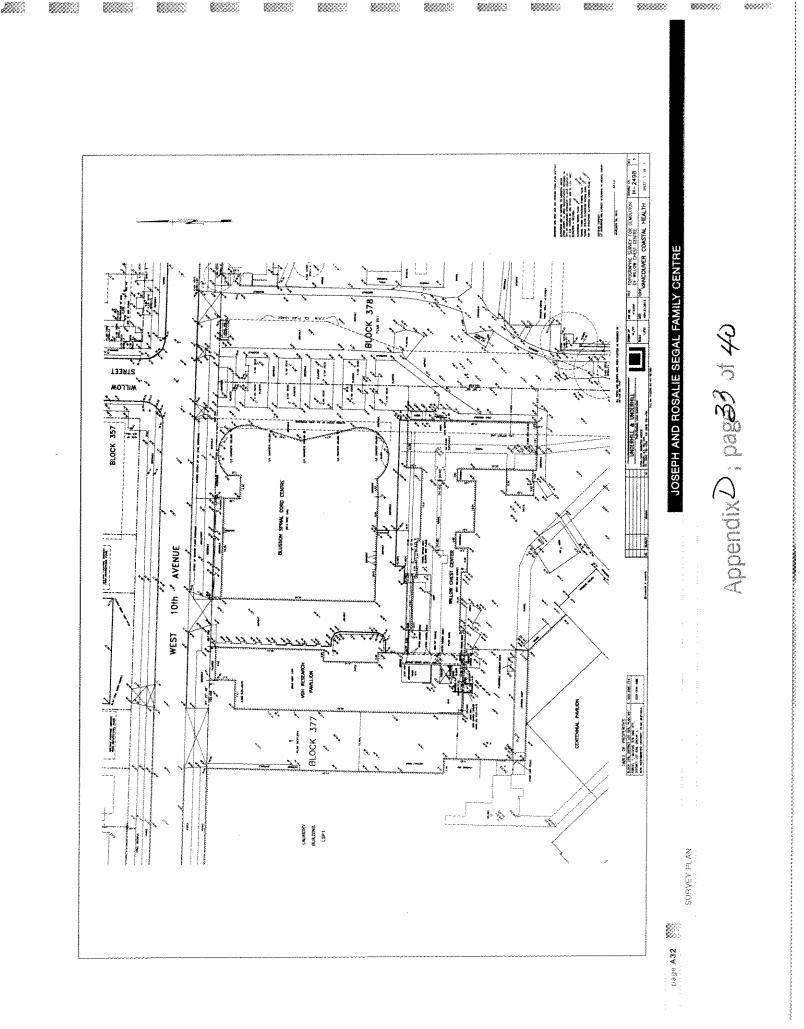
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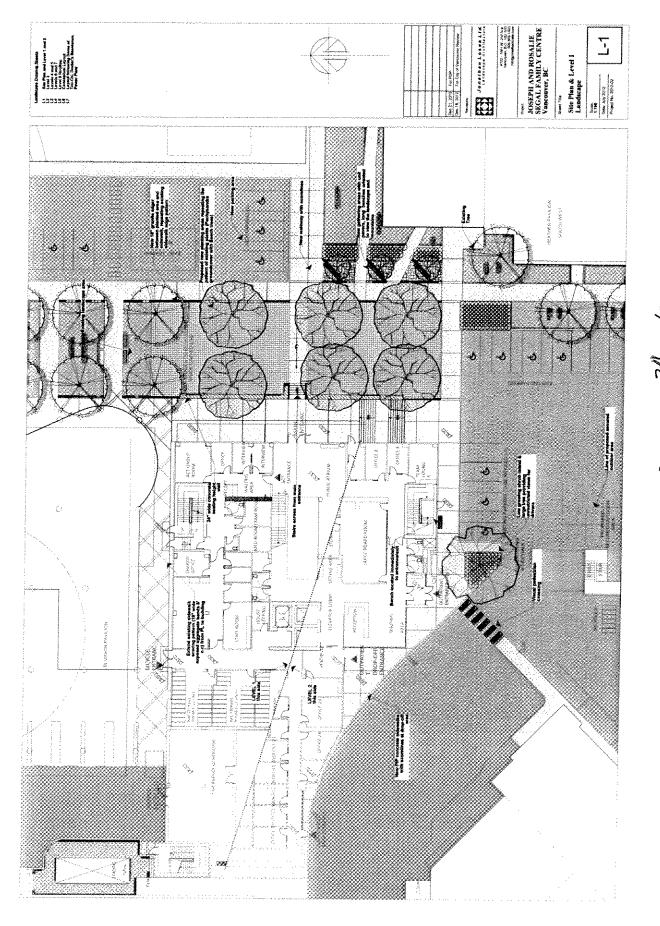
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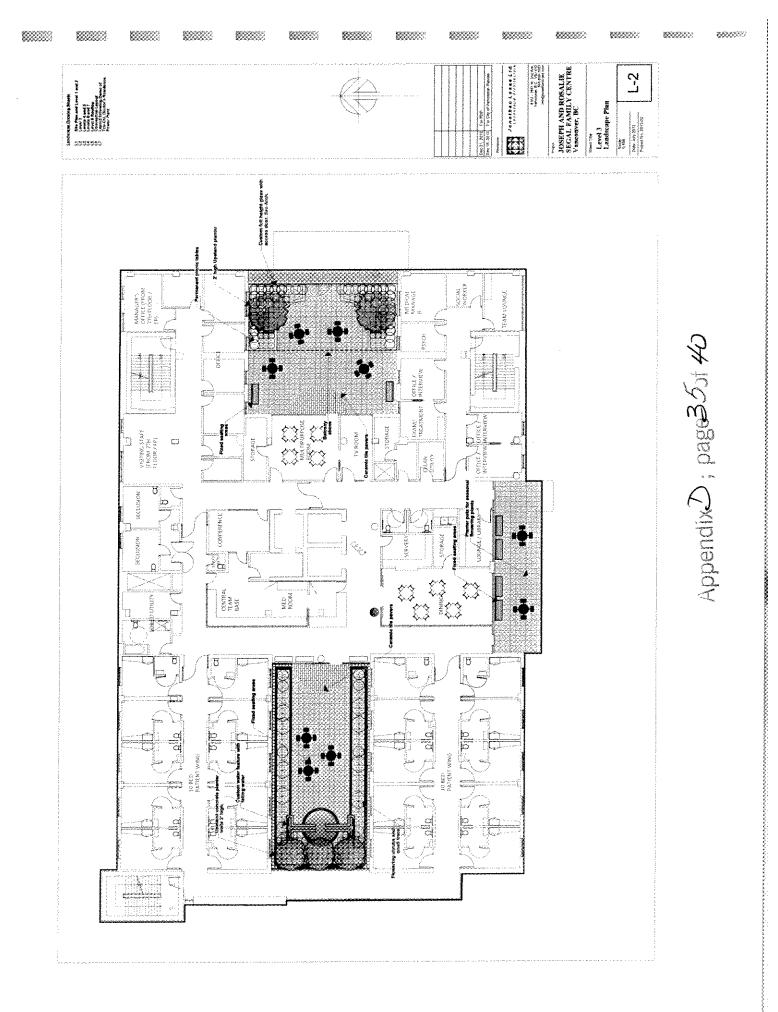
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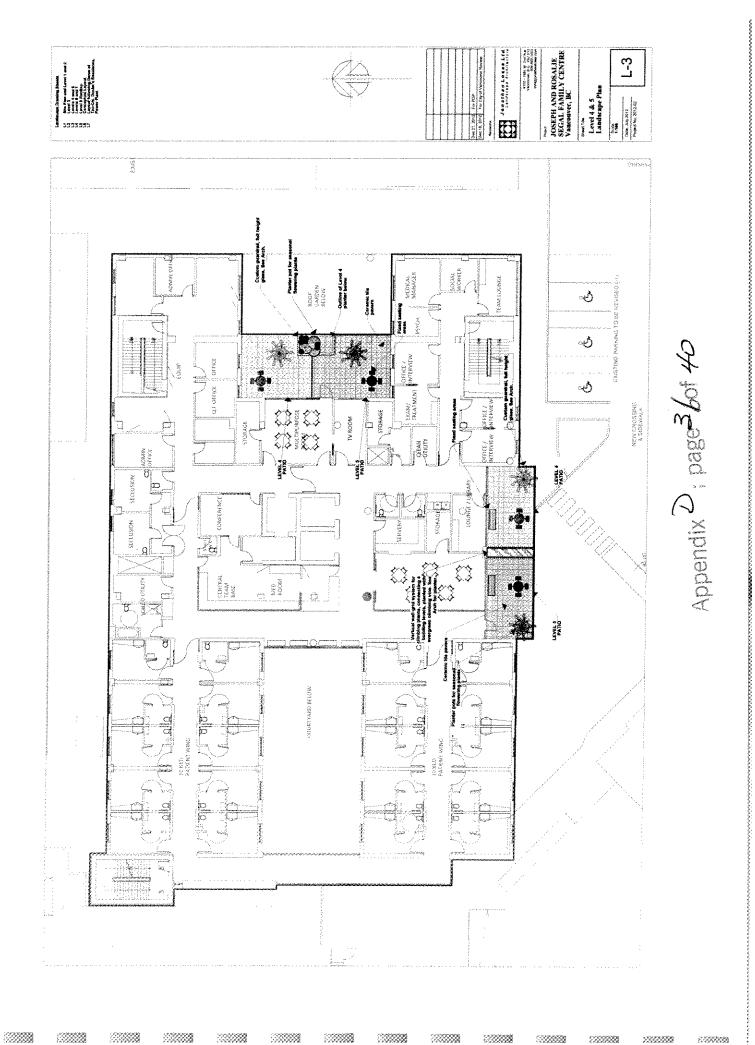
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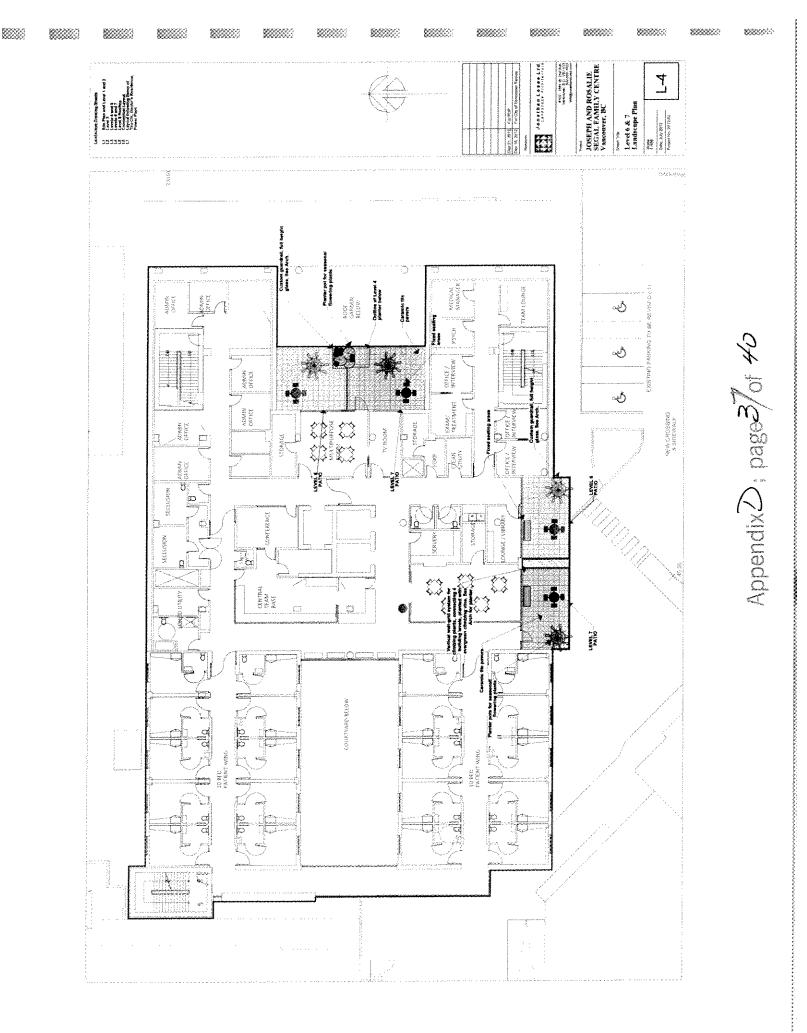
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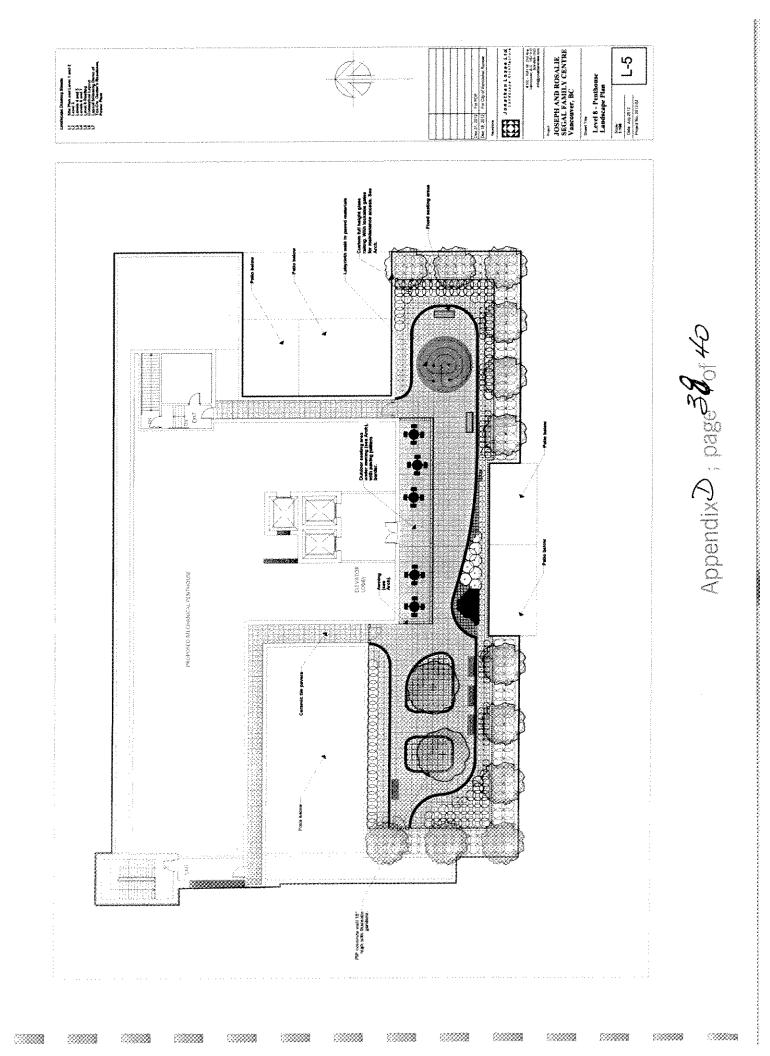
Appendix 3; page 2010

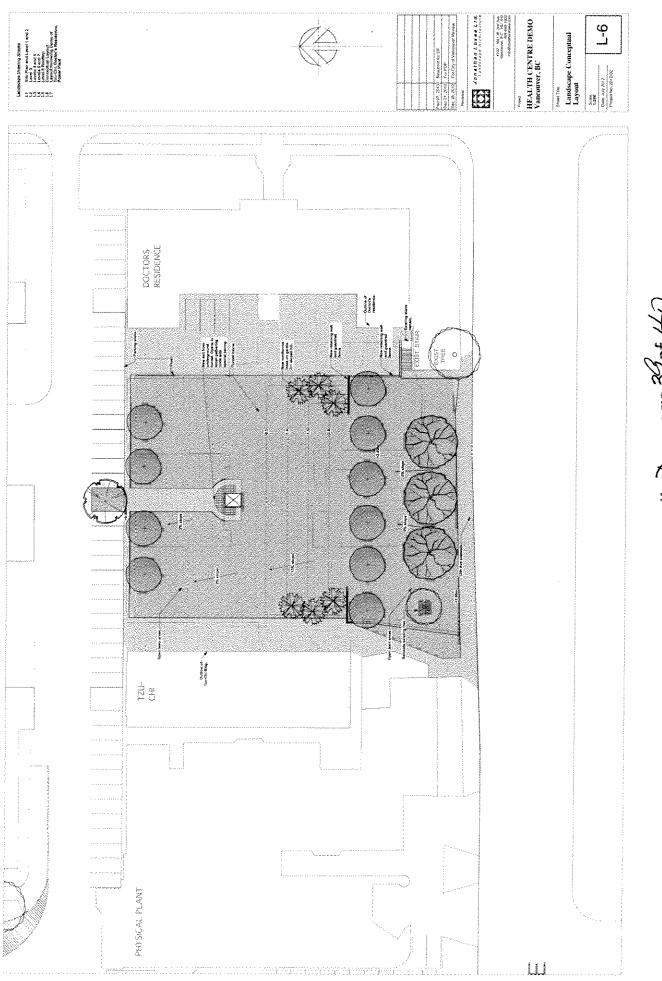
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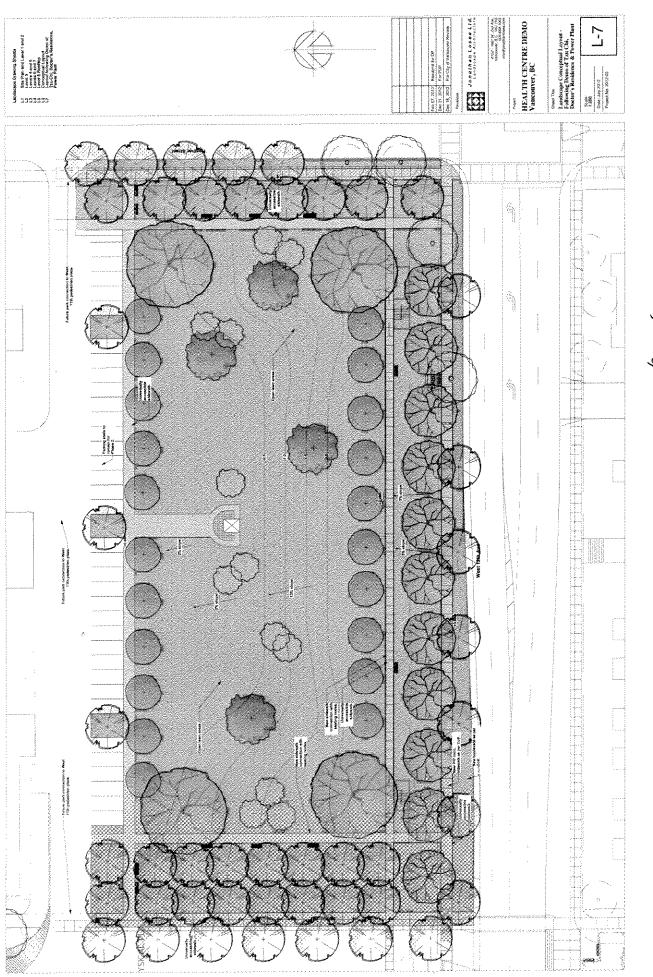








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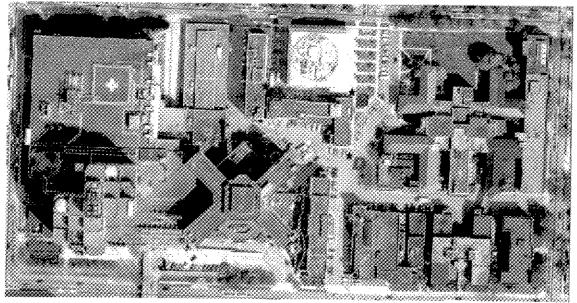
Appendix D; page Hof Ho

Maximum building height is determined by the ODP and City adopted View Cones - whichever is more restrictive.

The following View Cone information indicates the maximum possible Geodetic Elevation above Mean Sea Level for various locations on your site. The height of your development is determined by subtracting the Building Grade from the Maximum Geodetic Elevation and confirming that height is allowed in the ODP. All parts of the development must be anticipated and planned for, including stairs, screen walls, mechanical rooms, elevator overruns, etc, must be located below this height, and will not be treated as "exceptions" to the view cone.

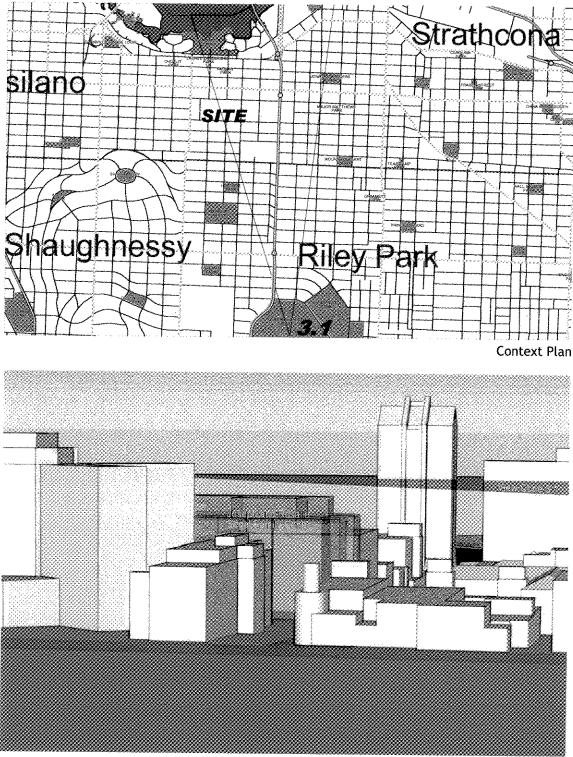
Please note that the provision of a maximum height does not imply support or approval that all buildings should go to the maximum height, or fill the building envelope fully to the maximum. As part of the complete development review process, building design must also respond to other policies and guidelines, which may require further shaping, stepping, reductions and/or refinement of the building tops.

View Cone Calculation Records			
Map Location	View		Max Geodetic
	IÐ	Name	Elevation
A	3.1	Queen Elizabeth Park to the Downtown skyline and North Shore mountains	79.80m
В	3.1	Queen Elizabeth Park to the Downtown skyline and North Shore mountains	80.26m
с		No affected view cones	
D	3.1	Queen Elizabeth Park to the Downtown skyline and North Shore mountains	81.12m



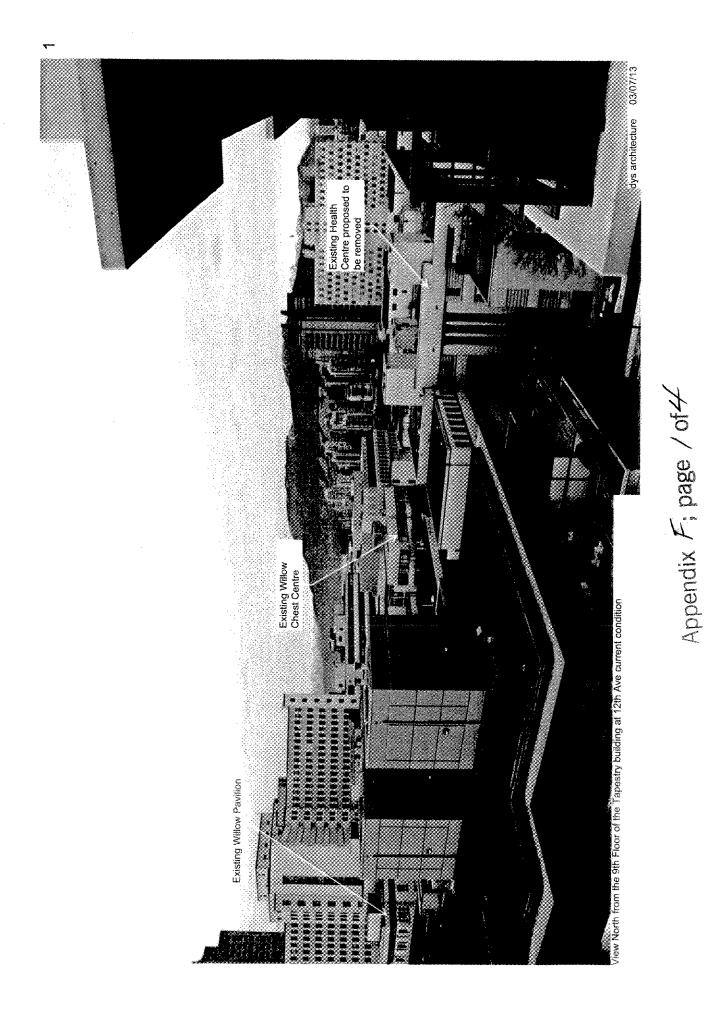
Site Plan

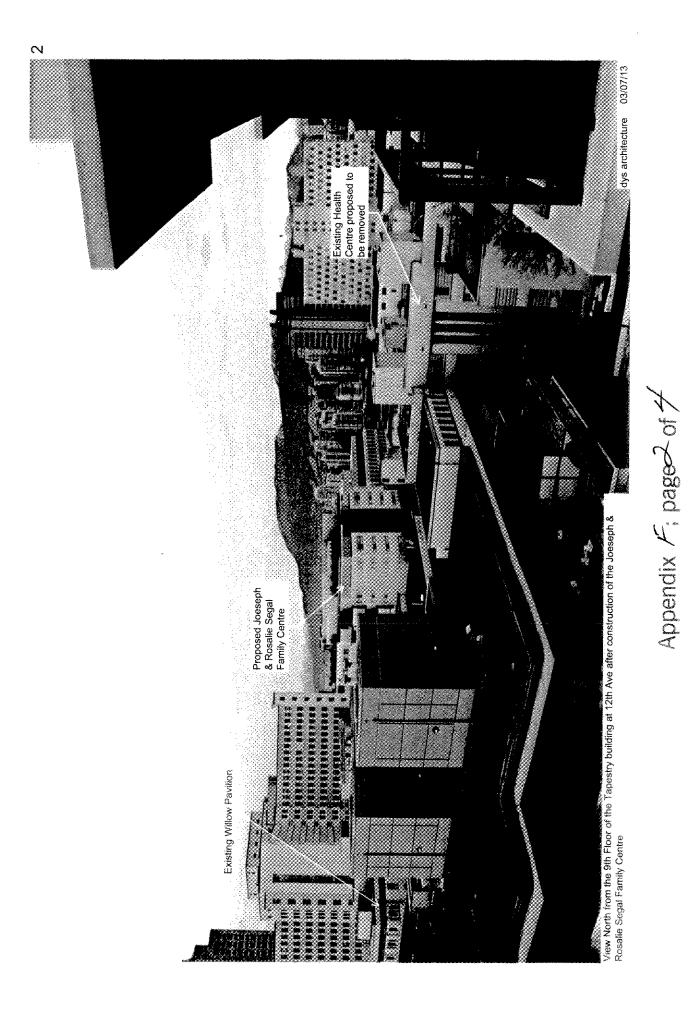
Appendix E; page / of

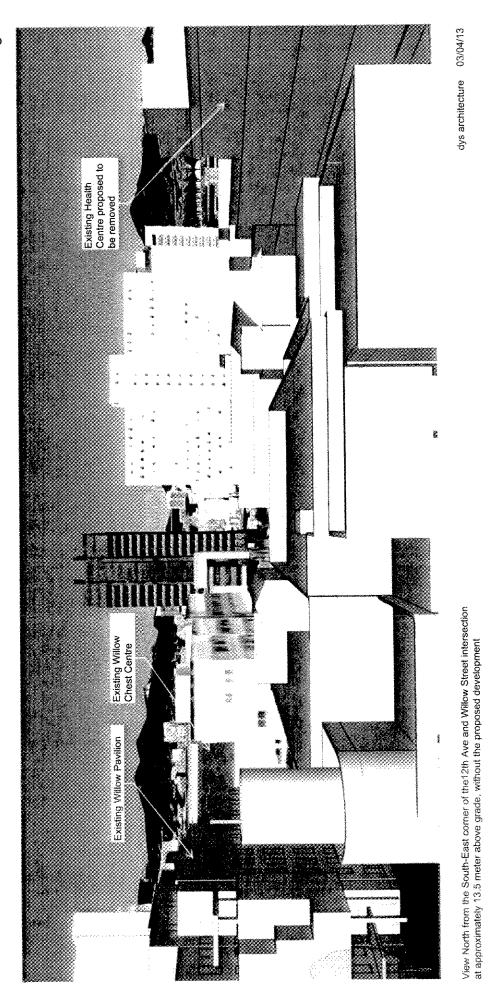


View Cone 3.1

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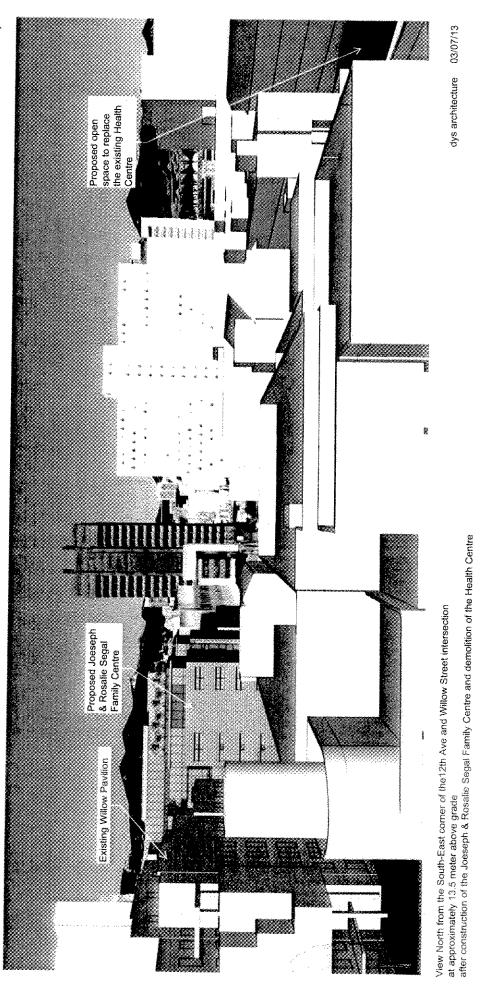




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