#### REPORT TO THE CALGARY PLANNING COMMISSION

DEVELOPMENT PERMIT	ITEM NO: 08	
	CPC DATE:	2009 June 25
	DP NO:	DP2009-0040

MANCHESTER (Ward 9 - Alderman Joe Ceci)

#### SUPPLEMENTARY REPORT

#### PROPOSAL:

New: Apartment building (3 buildings, 323 units), Townhouses (1 building, 5 units), Retail Stores and parking revisions

# **Background**

This application is for the development of three apartment buildings ranging from thirteen to fifteen storeys and a five unit townhouse building. Two of the apartment buildings include commercial space at grade - nine at grade commercial units are located in buildings B and C.

The proposed residential accommodation is as follows:

Building A – 14 storeys (apartment)	88 units:	77 two bedroom units 11 accessible one bedroom units
Building B – 13 storeys (apartment)	114 units	<ul><li>26 one bedroom units (studio)</li><li>75 two bedroom units</li><li>10 accessible two bedroom units</li><li>3 three bedroom units</li></ul>
Building C – 15 storeys (apartment)	121 units	<ul><li>39 one bedroom units</li><li>13 accessible one bedroom units</li><li>66 two bedroom units</li><li>3 three bedroom units</li></ul>
Building D – 3 storeys (townhouses)	5 units	4 three bedroom units 1 three bedroom unit.

# **Calgary Planning Commission Directives:**

The application was considered by the Calgary Planning Commission at the 2009 May 14 meeting. Calgary Planning Commission referred the item back to Administration to review the following with the applicant:

- incorporate street fronting at grade commercial or townhouse uses on 2 Street, other than garage doors,
- incorporate a softer transition between the parkade podium and the sidewalk in the required setback areas,
- consider community amenities at the centre of the project where the surface parking is,
- ensure the architects name is on the plans,

# **Administration Consultation with Applicant:**

A number of meetings were held with the applicant subsequent to the 2009 May 14 Calgary Planning Commission hearing. Considerable discussion was undertaken around the concerns identified by the Commission as well as other issues which culminated in a resubmission by the applicant on 2009 June 9.

#### **Amended Plans:**

The amended plans are included in Supplementary Appendix 1.

In response to specific concerns (see above) and other issues identified by Calgary Planning Commission, the Administration advises as follows:

#### **Specific Concerns**

#### Incorporate at grade commercial or townhouse uses on the Second Street frontage

The 2 Street frontage has been redesigned to incorporate five townhouse units.

The townhouses are three storeys in height with access from 2 Street, the plaza level and from within the parkade. All units incorporate private green rooftop space.

The incorporation of the townhouses into the development achieves a number of planning objectives:

- The townhouses replace what was previously a parkade wall resulting in a more friendly pedestrian environment.
- The townhouses provide natural surveillance onto 2 Street and onto the plaza level.
   Natural surveillance is a key element of CPTED.
- Parking for the townhouses is located within the parkade allowing for a street frontage uninterrupted by multiple driveway access points.
- The multiple entries to the units provide "live/work" options for the townhouse units in the future, i.e. four of the units have independent access from 2 Street.

Garbage collection and the parkade entrance from 2 Street were also identified as a concern. There is no service lane on the site which limits opportunities for a garbage pickup location. The garbage collection pickup facility and the parkade entrance are still provided from 2 Street SW frontage and some effort has been made to mitigate the impact on the street and pedestrian environment, as follows:

- The garbage collection facility has been rotated through 90 degrees to reduce exposure to the street frontage.
- A single garbage collection point has been provided for all components of the new development rather than individual smaller collection points.
- The requirement for vehicle turnaround on site is avoided, allowing for maximum opportunity for landscaping and active amenity areas at the plaza level.
- The recycling requirements for the site are incorporated within the garbage facility.
- The hard surface treatment in front of the townhouses is continuous allowing for uninterrupted pedestrian movement interrupted only at scheduled garbage pickup times.
   Rolled curbs are utilized to minimize changes in grade.
- The garbage pickup forecourt will double up as a loading area for Building A.
- Aluminum glazed overhead doors provide access to the parkade which will improve both
  the visual appearance and surveillance opportunities. The single parkade entry door has
  been replaced by two doors, to mitigate the scale of a single door. A steel pergola
  structure over the parkade entrance completes the link between buildings A and D and
  provide a focal point.
- A light coloured masonry stone is the predominant finish at pedestrian level. In addition planters, street trees and seating further enhance the pedestrian environment along this frontage.

# Incorporate a softer transition between the parkade podium and the sidewalk in the required setback areas

This requirement impacts both the 2 Street and 55 Avenue SW frontages. Revisions to the 2 Street frontage have been addressed – see above.

The 55 Street frontage (north) slopes down from west to east resulting in a partially exposed parkade podium, which is most evident at the east end. A number of measures have been undertaken to mitigate the impact:

- The boulevard has been graded at 6 per cent resulting in less exposed parkade wall.
- The parkade wall is set back 1.76 metres from the property line previously a 0.0 metre setback provided
- The additional deciduous planting in the form of trees and shrubs is now provided on site and at grade (boulevard planting and planters are no longer required).
- The townhouse development replaces the east end of the parkade wall along with tiered planters as an additional measure to breakup the massing.
- Stairs and ramps provide access from 55 Avenue SW and breakup the continuity of this frontage. A steel pergola structure visually identifies the stairs at the east end.
- A masonry stone finish is proposed on this frontage.

# Consider community amenities at the centre of the project at the surface parking

The surface parking has been revisited. The parking area has been reduced by fourteen stalls or by approximately 40 per cent of the original surface area. The remaining 24 stalls have been retained and will be used for both resident visitor parking and retail parking.

The reduced parking area and associated drive aisle function as "street frontage" for the internal commercial units. The surface treatment of the parking area is consistent with the remainder of the plaza level and together with the comparatively wide sidewalks provide a pedestrian friendly environment with opportunities for seating, planting, displays and bicycle parking.

The remainder of the plaza level has been reconfigured and include the following changes:

- A focal bermed green area together with a unique light feature is proposed on the east west axis
- Community garden carts are proposed at the northern end of the plaza. These will be mobile and can be stored off-site in the winter.
- Flexible play pod areas have been introduced to provide activity areas for younger children.
- The basketball court has been replaced by a multi use play court which could be utilized for various activities, including basketball, volley ball, ball hockey and similar. There is also the potential for a "portable" ice rink during the colder months.
- Pedestrian circulation is improved with access to 2 Street and 55 Avenue SW via a stairway located at the north east corner of the plaza.

# **Other Concerns and updates:**

#### **Parkade Revisions**

The incorporation of the additional five townhouses, which displace a portion of the original parkade, together with the reduction in surface parking at the plaza level necessitated revisions to the parkade. An additional "half level" has been provided. A total of 244 parking stalls are provided on site to accommodate the proposed 240 residential units, visitor parking and the commercial units.

# **Bicycle Storage**

The bicycle storage facilities are now located within or close to each of the apartment buildings and are easily accessible from within the buildings and from the parkade.

# **Environmental Sustainability**

The applicant advises as follows:

The development is designed to meet Built Green Platinum criteria and will be equivalent to a Leeds gold rating. The development is designed with a focus on sustainability to ensure both environmental and financial benefits from the day of commissioning onwards. The following details some of those elements under the concepts of reduce, re-use, recycle.

#### Reduce

- superior building envelope
  - o insulated concrete form structure
  - triple pane windows
- heat recovery ventilators
- digital metering for real time consumption awareness
- energy star appliances
- led lighting
- solar/wind lighting
- co-generation power
- low flow water fixtures
- alternative fuel car share
- brown field redevelopment
  - o close to LRT, employment and shopping
- · bicycle friendly development
- mixed use development

#### Re-use

- long life-cycle buildings
- low maintenance buildings
- flex design principles allows for the future
- flexible amenity spaces
- · community gardens
- rain water irrigation

#### Recycle

- large component of recycled steel utilized
- high volume fly ash concrete
- integrated and convenient recycle facilities

#### **Massing and Building Placement**

The three medium rise apartment buildings have modest footplates ranging from 626 to 746 square metres. The separation distances are as follows:

- Building A and Building B 19 metres
- Building B and Building C 27 metres
- Building A and existing development to the south (Manchester Tower) 24 metres
- Building B and existing development to the south (care facility) 35 metres

The building placement/layout meets established best practices in the City, e.g. the Beltline Area Redevelopment Plan.

#### **Finishes**

The external finishes to the buildings have been revisited.

A lighter toned sandy beige masonry has been used as a unifying material at the base of all the buildings, including the parkade. Acrylic stucco and corrugated metal cladding are the predominant finishes. The stucco colours (dark grey and dark brown) are consistent throughout the development. The choice of metal cladding colour is used to provide an individual identity to each of the building elements as follows:

- Building A Galvanised metal cladding
- Building B Copper Red metal cladding
- Building C Grey Blue metal cladding.

Dark brown corrugated metal cladding is used as spandrel panels between windows (dark brown) which will provide continuity between windows.

The townhouses are a combination of the colours and materials used on the apartment buildings.

### **Crime Prevention Through Environmental Design (CPTED)**

It is confirmed that recommendations from the CPTED Assessment have been incorporated into the proposed development. These include:

- o White painted walls and ceilings in the parkade
- Parkade lighting as recommended (54 lux)
- Vandal proof lighting adjacent to entrances and the garbage collection facility.
- o Clear panels in doors and walls stairwell vestibule doors and stairwell lobbies.
- Lighting to the plaza level (10 lux)
- Lighting to the surface parking area (22 lux)
- Security cameras at the parkade and plaza level.
- o Improved natural surveillance at the plaza level townhouses

#### Bylaw relaxations

#### Building A

Front yard: 3 metres – covered entry projects 2.2 metres (+1.6 metres) into the required front yard. The entry feature identifies the main entrance and provides visual interest.

Coniferous trees – the minimum requirement is three trees, two trees provided. An additional large deciduous tree has been provided as a replacement.

Parking – see original report.

#### Building B

Rear yard (Third Street frontage): 7.5 metres – the rear setback to the main floor and upper floors is 3.09 metres and 5.48 metres respectively. The setback on the Third Street frontage functions more appropriately as a front yard (3 metres) and has been reviewed as such.

Balconies – balconies project 1.9 metres (+ 0.1 metres) from building façade. The relaxation is nominal (5 per cent).

Commercial units are required to front a local street - three commercial units front onto the "internal mall".

#### Building C

Rear yard (Third Street frontage): 7.5 metres – the rear setback to the main floor and upper floors is 5.4 metres and 4.32 metres respectively. The setback on the Third Street frontage functions more appropriately as a front yard (3 metres) and has been reviewed as such.

Balconies – balconies project 1.9 metres (+ 0.1 metres) from building façade. The relaxation is nominal (5 per cent).

Commercial units are required to front a local street - three commercial units front onto the "internal mall".

#### Building D

Front yard (3 metres) – portions of units 1-3 project 0.10 metres into the front yard at the main floor level. These modest "projections" comprise a relatively small portion of the front façade and provide additional articulation and visual interest to the design.

#### Buildings B, C and D

Density (maximum 230 units) – the resubmission proposes an additional ten units for a total of 240 units (+10 units). The resubmission includes five new townhouses. Buildings B and C have been redesigned to include an additional three 3 bedroom units and one 2 bedroom unit at each of the penthouse levels for a total of 8 additional units. In building C, sixteen one bedroom units have been replaced with 13 two bedroom units. The additional units were provided in part to address the 2 Street frontage and in part to provide larger family oriented units, i.e. additional two bedroom and three bedroom units.

#### **Community Association Comments:**

There is no community association group in Manchester.

#### **CONCLUSION:**

The new proposal is supported as the applicant has addressed the specific concerns raised by Calgary Planning Commission at the 2009 May 14 hearing. In addition, the applicant has incorporated further improvements as part of the overall development review.

# CORPORATE PLANNING APPLICATIONS GROUP RECOMMENDATION: APPROVAL

The Corporate Planning Applications Group recommends APPROVAL with the following conditions:

#### **Prior to Release Requirements:**

#### Planning:

- 1. Submit a total of eight (8) complete sets of amended plans (file folded and collated) to the File Manager that comprehensively address the prior to release conditions of all Departments as specified below. In order to expedite the review of the amended plans, four (4) plan set(s) shall highlight all of the amendments. Please ensure that all plans affected by the revisions are amended accordingly. In the event that the prior to release conditions are not resolved, an \$886 recirculation fee may apply.
- 2. Amend plans as follows:
  - Townhouses: Site plans to be consistent with landscape plan (DP-15) see landscape treatment on Second Street SW frontage.
  - Provide a quality specification for fire exit door on 55 Avenue SW.
  - DP-15 shows balconies over Second Street SW entry amend to show roof canopy.

# **Urban Development:**

3. Amend the plans to:

# Water Resources - Sanitary and Stormwater Servicing

- a. Provide a test manhole located at public right of way for the single sanitary tie-in to City mains to service proposed Lot 'B' along 2 St. SW.
- b. Indicate existing 200mm sanitary service line on 2 St. SW to be abandoned and stubbed at the property line.

Contact Lam Huynh, Water Resources and Development Approvals @ 403-268-3730 for further details.

4. Submit a Sanitary Servicing Study prepared by a qualified professional engineer under seal and permit to practice stamp. The report shall identify potential impact and/or "pinch points" within the public sanitary sewer system caused by the ultimate flows generated by the proposed development. Associated costs including potential sanitary system upgrades required to service the proposed development will be at the expense of the developer.

Contact Lam Huynh, Water Resources and Development Approvals @ 403-268-3730 for further details.

5. Amend the plans to:

# Water Resources - Water Servicing

- a. Upgrade the 150mm water main along 3 St. between 55 Av. to 58 Av. SW to 250mm.
- b. Dual service for proposed lot B should be serviced from the portion of main (on 3 Street SW) south of the existing hydrant, not at the elbow of the existing main as shown on sheet no. DP-06.
- c. Indicate existing 100mm water service line on 2 St. SW to be killed at source and not abandoned as proposed.

6. Enter into an Indemnification Agreement for the construction of water main upgrade on 3 St. SE and sanitary system upgrade on 2 St. SW. Upgrade requirements on sanitary mains on 2 St. SE will be determined upon completion of the review of the sanitary servicing study to be conducted by Water Resources.

For further inquiry, contact the Water Resources, Leader Inspection Services at 403-268-4385 and Lam Huynh, Water Resources, Development Approvals @ 403-268-3730.

The following documentation is required to execute the agreement:

- a. A contract is signed and executed by both parties,
- b. A security deposit is received by the City, and
- c. An insurance policy is received that protects the City against any unforeseen accidents.
- 7. Amend the plans to:

#### Roads

- a. Provide materials and surface finishes on all public streets and sidewalks according to city standards.
- 8. Remit a performance security deposit (certified cheque, bank draft, letter of credit) for the proposed infrastructure listed below within the public right-of-way to address the requirements of the Business Unit. The amount of the deposit is calculated by Roads and is based on 100% of the estimated cost of construction.

The developer is responsible arrange for the construction of the infrastructure either with their own forces or may elect to have the City construct the infrastructure on their behalf.

If the developer elects to construct the infrastructure with their own forces, the developer will need to enter into an Indemnification Agreement at the time of construction and the deposit will be used to secure the work.

# Roads 8 1

- a. Construction of new driveway crossings on 3 St. SW.
- b. Closure and removal of existing driveway crossings on 55 Av. SW.
- c. Construction of new sidewalks adjacent to 3 St. SW.
- d. Rehabilitation of existing driveway crossings, sidewalks, curb and gutter, etc., should it be deemed necessary through a site inspection by Roads personnel,
- 9. Remit payment (certified cheque, bank draft) for the proposed infrastructure listed below within the public right-of-way to address the requirements of the Business Units. The amount is calculated by the respective Business Unit and is based on 100% of the estimated cost of construction.

The developer is responsible to coordinate the timing of the construction by City forces. The payment is non-refundable.

#### Roads

e. Street lighting upgrading adjacent to the site.

10. Remit payment (certified cheque, bank draft) for the proposed infrastructure listed below within the public right-of-way to address the requirements of the Business Units. The amount is calculated by the respective Business Unit and is based on 100% of the estimated cost of construction.

The developer is responsible to coordinate the timing of the construction by City forces. The payment is non-refundable.

#### Water Resources

- a. New sanitary test manhole,
- b. Storm sewer redevelopment (\$84 / m frontage),
- c. New storm sewer connection,
- d. New sanitary sewer connection,
- Submit, for review, two (2) copies of the Erosion and Sediment Control (ESC) report and/or drawings to Urban Development for review by the Erosion Control Coordinator, Water Resources. Prior to submission of the ESC report and drawing(s), please contact the Erosion Control Coordinator, Water Resources at 268-2655 to discuss ESC requirements.

If the overall site size is less than 2 hectares (5 acres), **only a drawing** may be required for review. Please contact the Erosion Control Coordinator to discuss report and drawing requirements for these sites.

Documents submitted shall conform to the requirements detailed in the current edition of The City of Calgary *Guidelines for Erosion and Sediment Control* and shall be prepared by a qualified consultant or certified professional specializing in ESC. For each stage of work where soil is disturbed or exposed, drawing(s) must clearly specify the location, installation, inspection and maintenance details and requirements for all temporary and permanent controls and practices.

- 12. Submit three (3) sets of Development Site Servicing Plan to the Building Grades Supervisor, Engineering Services, for approval from Water Resources, as required by Section 5 (2) of the *Utility Site Servicing Bylaw 33M2005*. The scope and details of the plans are found in both the *Stormwater Management and Design Manual (December 2000)* and the *Design Guidelines for Development Permits and Development Site Servicing Plans (June 2007)*.
- 13. Amend plans to:

#### Waste & Recycling Services:

- a. Indicate on the plans that the slope is not more than 2 % for the drive aisle beside building "A".
- b. Indicate on the plans a speed bump at the top of the any downward slopes that waste containers may accidentally head down.

#### **Transportation:**

14. Amend plans to include SU9 sweep paths to confirm truck turning requirements for access to and from the Building B and C loading/unloading areas.

- Sweep paths shall confirm minimum maneuvering in order to reduce impact to traffic entering and exiting the site.
- All minimum clearances between the sweep paths and obstructions (parking stalls, curbs, fencing, etc) are to be dimensioned and must exceed the minimum 0.6 m clearance.
- Maneuvering into and out of the loading area shall take place on site.
- 15. Amend the plans to reconfigure the parking stalls within the one-way parking areas.
  - All parking stalls within a one-way operation area shall be angled accordingly.
- 16. Amend the plans to provide signage to clearly indicate the one-way traffic operations within the parkade.
- 17. Amend the plans to provide a traffic control device (removable bollards located at the egress of the garbage collection area) acceptable to Planning to prevent motorists from entering the main parkade access driveway area. The traffic control device shall remain in place except for when removal is required for garbage collection and loading vehicles. This will require coordination with a site superintendant.
  - Provide an operational protocol with respect to the temporary removal of the bollards when required for garbage removal and other loading.
- 18. Amend the plans to provide a radius or chamfer of the storage rooms to assist vehicles entering the north and south parking areas of the lower level.
- 19. Given the visitor parking supply has been split between the plaza level and the parkade level, provide an operational protocol outlining how visitor traffic will be accommodated.
- 20. Amend the plans to provide details of all parking related signage (residential, commercial and visitor parking).
- 21. Amend the plans to provide on-site signage to prevent regular traffic (other than garbage and loading vehicles) from entering the 2 St SW directional driveway.
  - Sign to be located on-site.
  - Provide signage details and refer to details on site plans.
  - Sign shall not prohibit all traffic. Garbage and loading vehicles permitted.
- 22. Amend the plans to relocate the lay-by wheel chair ramp to the north end of the lay-by.
- 23. The pedestrian connections between the townhouses and the public sidewalk along 3 St SE shall be a minimum width of 1.5m, clear of all obstructions.
- 24. Provide a parkade access protocol.
- 25. Provide further information to ensure that garbage movement activities will not block the drive aisles.

- 26. As indicated in the development application, the developer/owner/manager shall appoint a traffic demand management (TDM) coordinator to develop strategies for a TDM program that will achieve reductions in motor vehicle use. These strategies should be implemented in the development and management of the site.
- 27. As indicated in the development application, the developer and future site managers shall provide a written commitment to promote and monitor the TDM program to reduce peak hour site-generated vehicle traffic and report on the TDM program to the Director of Transportation Planning annually.

#### **Permanent Conditions**

#### Planning:

- 28. The development shall be completed in its entirety, in accordance with the approved plans and conditions.
- 29. No changes to the approved plans shall take place unless authorized by the Development Authority.
- 30. The necessary Access Easement Agreements for the play area and for pedestrian traffic flow shall be registered on all affected titles prior to the issuance of the development completion permit for any phase of the development. The City of Calgary shall be named a party to the Agreements to secure access in perpetuity. At this time, the Agreements shall be submitted to Development & Building Approvals and approved by the City Solicitor to ensure that the signatories do not amend, terminate or discharge the agreements without the City's consent.
- 31. This approval recognizes three (3) phases on the approved plans which shall be completed in sequence. All the road works, landscaping, surface parking and provisions for garbage collection shown within each phase shall be completed and construction of the subsequent phase shall have commenced and be ongoing prior to the issuance of a Development Completion Permit for the completed phase. Call Development Inspection Services at 268-5491 to request site inspections for the Development Completion Permits.
- 32. A Development Completion Permit shall be issued for each phase before the use is commenced or the building occupied. A Development Completion Permit is independent from the requirements of Building Permit occupancy. Call Development Inspection Services at 268-5491 to request a site inspection for the Development Completion Permit.
  - The required subdivision and necessary easements must be registered on all affected parcels prior to the issuance of the development completion permit for any phase of the development to the satisfaction of the Approving Authority.
- 33. All roof top mechanical equipment shall be screened by the building parapet as shown on the approved plans released with permit and shall not be visible from thoroughfares or sidewalks.

- 34. The grades indicated on the Development Permit approved plans must match the grades on the development site servicing plan ("DSSP") for the development site. Prior to the issuance of the Development Completion Permit, the Consulting Engineer must confirm, under seal, that the development was constructed in accordance with the grades submitted on the Development Permit.
- 35. All areas of soft landscaping shall be provided with an underground sprinkler irrigation system as identified on the approved plans.
- 36. Parking and landscaping areas shall be separated by a 150 mm (6 inch) continuous, poured in place, concrete curb, where the height of the curb is measured from the finished hard surface.
- 37. A lighting system to meet a minimum of 10 LUX for uncovered parking areas with limited public access and 22 LUX for shopping areas with uncovered parking areas and 54 LUX for parkades) with a uniformity ratio of 4:1 on pavement shall be provided.
- 38. The walls, pillars and ceiling of the underground parkade shall be painted white or a comparable light colour.
- 39. The light fixtures in the parkade shall be positioned over the parking stalls (not the drive aisles).
- 40. All stairwell doors and elevator access areas shall be installed with a transparent panel for visibility.
- 41. Each parking stall, where located next to a sidewalk, shall have a properly anchored **concrete** wheel stop (100 mm in height and 600 mm from the front of the parking stall).
- 42. Handicapped parking stalls shall be located as shown on the approved plans released with this permit.
- 43. The garbage enclosure shall be kept in a good state of repair at all times and the doors shall be kept closed while the enclosures are not actively in use for delivery or removal of refuse.
- 44. Loading and delivery shall take place in the designated loading stall as shown on the approved plans and shall, at no time, impede the safety of pedestrian movements and use of the parking lot.

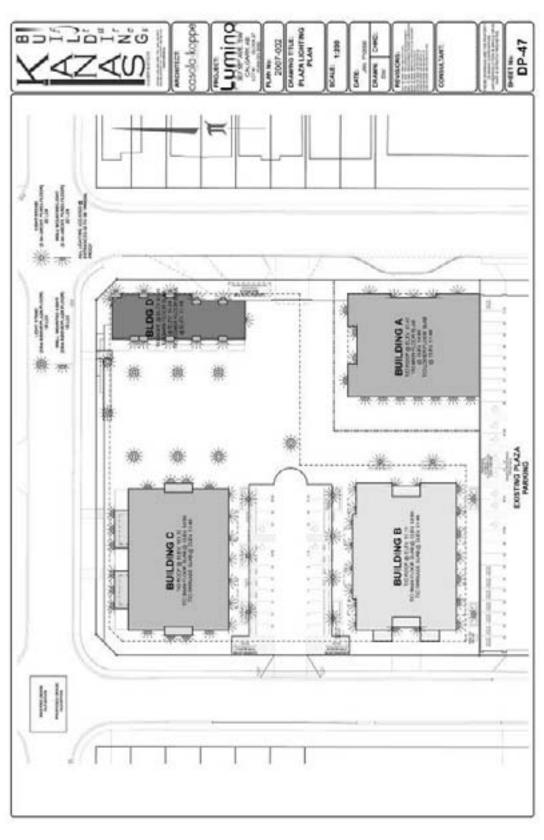
#### **Urban Development:**

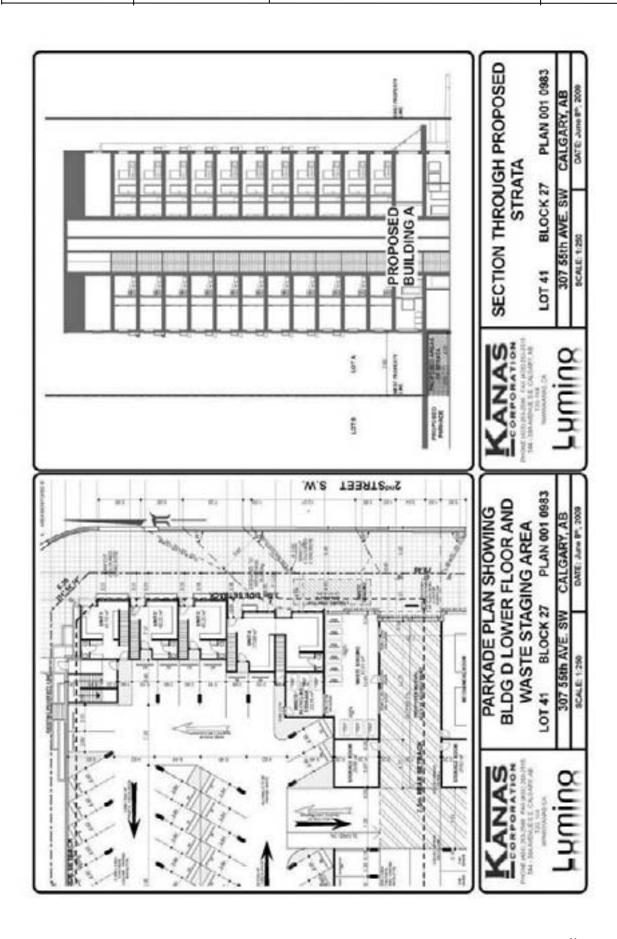
- 45. If during construction of the development, the developer, the owner of the titled parcel, or any of their agents or contractors becomes aware of any contamination,
  - a. the person discovering such contamination shall immediately report the contamination to the appropriate regulatory agency including, but not limited to, Alberta Environment, the Calgary Health Region and The City of Calgary (311).
  - b. on City of Calgary lands or utility corridors, the City's Environmental Assessment & Liabilities division shall be immediately notified (311).

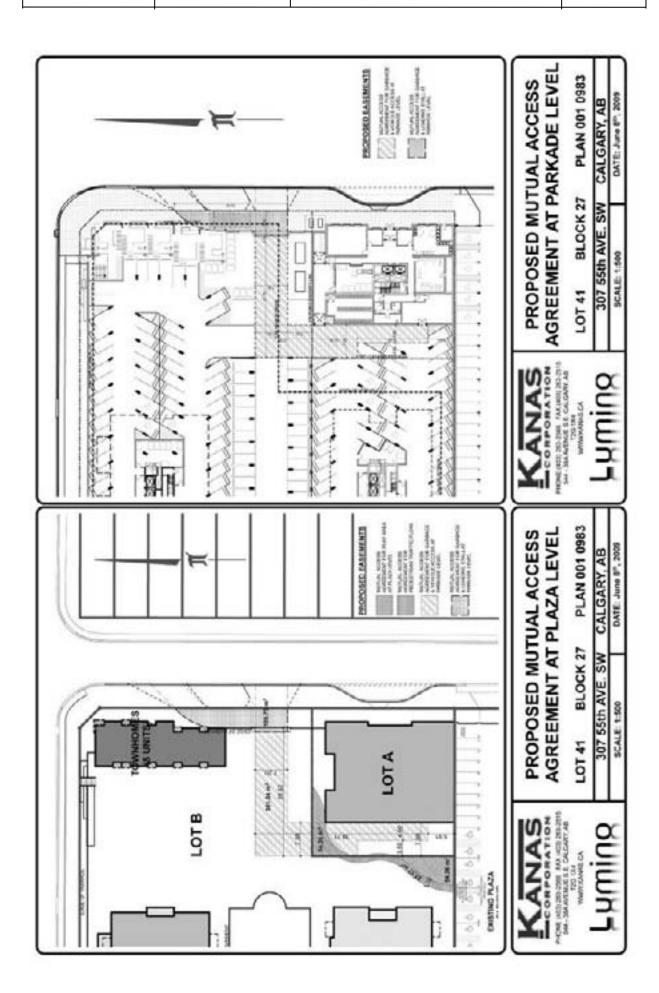
- 46. The developer shall be responsible for the cost of public work and any damage during construction in City road right-of-ways, as required by the Manager, Urban Development. All work performed on public property shall be done in accordance with City standards.
- 47. The developer understands that he is responsible to ensure that approved driveways required for this development must be constructed to the ramp grades shown on plan that have been approved by Roads. Negative sloping of the driveway within the City boulevard is not acceptable to the City. The developer shall be responsible for all costs to remove and reconstruct the entire driveway ramp if actual grades do not match the approved grades.
- 48. The grades indicated on the approved Development Permit (DP) plans must match the grades on the Development Site Servicing Plan (DSSP) for the subject site. Prior to the issuance of the development completion permit (DCP), the developer's Consulting Engineer must confirm under seal that the development was constructed in accordance with the grades submitted on the development permit (DP).
- 49. Execute an Easement Agreement to the satisfaction of the Manager of Urban Development to address common storm surface run-off areas at the plaza level, common sanitary drainage areas in the parkade, garbage container movement from lot 'A' to lot 'B' and garbage collection vehicle access to lot 'B'.
- 50. In accordance with the *Encroachment Policy* adopted by Council on June 24, 1996, and as amended on February 23, 1998, encroachments of retaining walls, planters, entry features, building projections, etc. are not permitted to extend into the City right-of-way. New encroachments that are a result of this development are to be removed at the developer's expense.
- 51. The owner, and those under their control, shall ensure good erosion and sediment control (ESC) housekeeping practices and the timely implementation, inspection and maintenance of all controls and practices specified in the ESC report and/or drawing(s) in accordance with the current edition of the *Guidelines for Erosion and Sediment Control*. The developer, or their representative, shall designate a person to inspect all controls and practices every seven days and within 24 hours of precipitation or snowfall events. Controls and practices shall be adjusted to meet changing site and winter conditions. Notify the Erosion Control Coordinator, Water Resources at 268-2655 of changes to the controls and practices specified in the report and/or drawing(s).
- 52. Contain storm run-off on site.

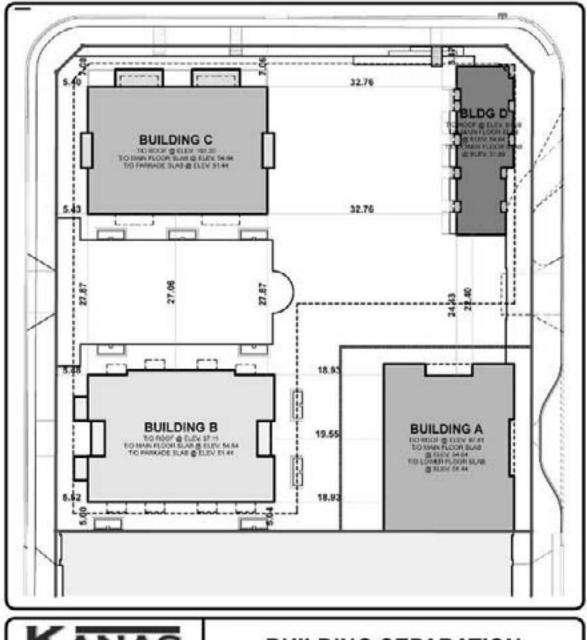
#### **Transportation:**

53. The necessary Access Easement Agreements for the shared access, loading, parking arrangements etc. shall be registered on all affected titles prior to the issuance of the development completion permit for any phase of the development. The City of Calgary shall be named a party to the Agreements to secure vehicular access in perpetuity. At this time, the Agreements shall be submitted to Transportation Planning and approved by the City Solicitor to ensure that the signatories do not amend, terminate or discharge the agreements without the City's consent.









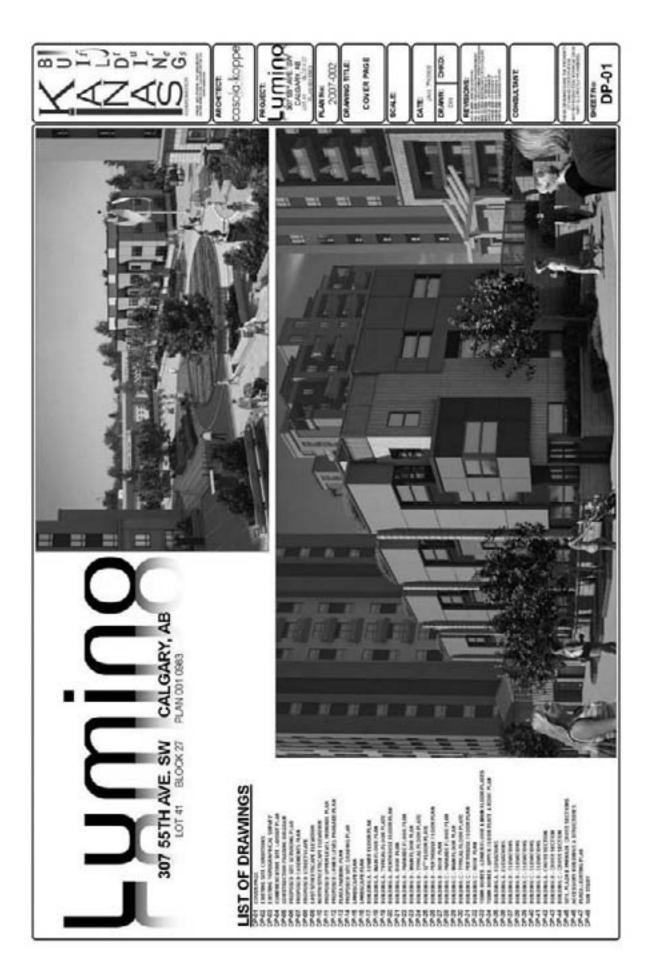


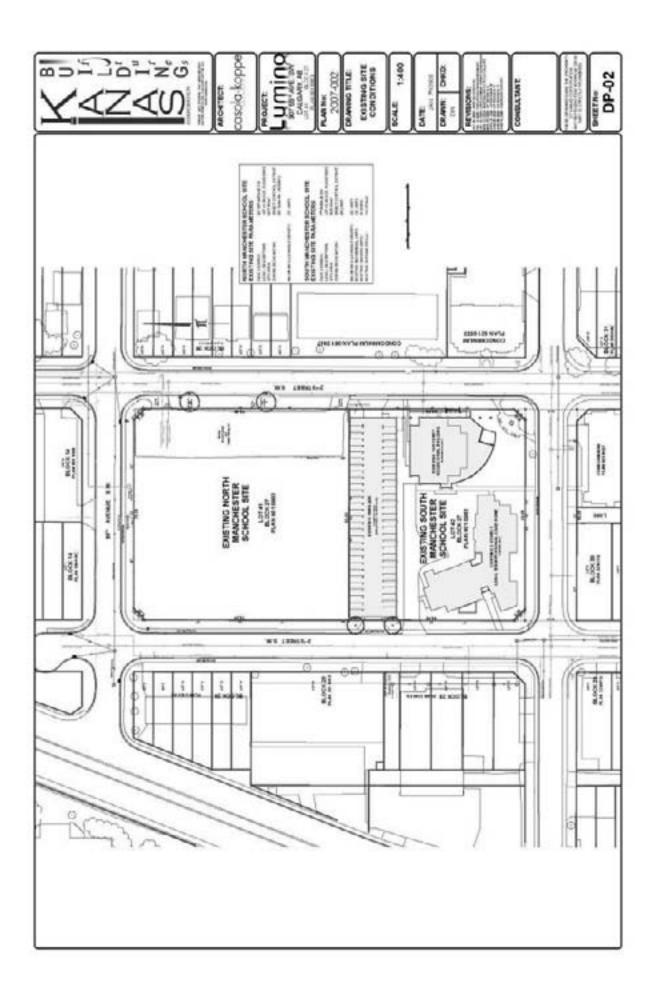
# BUILDING SEPARATION MEASUREMENTS

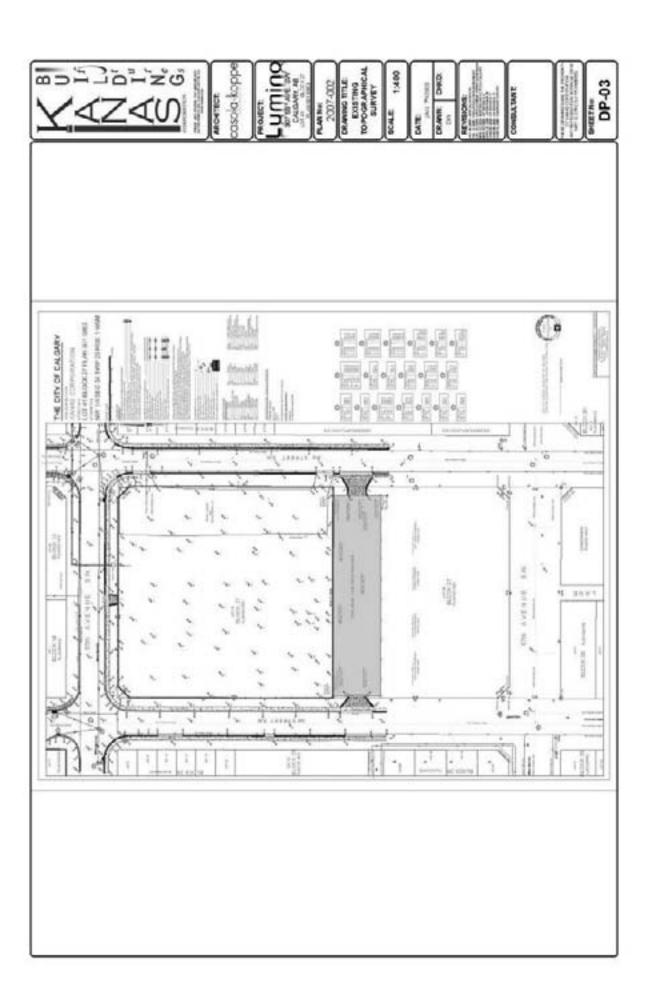
LOT 41 BLOCK 27 PLAN 001 0983

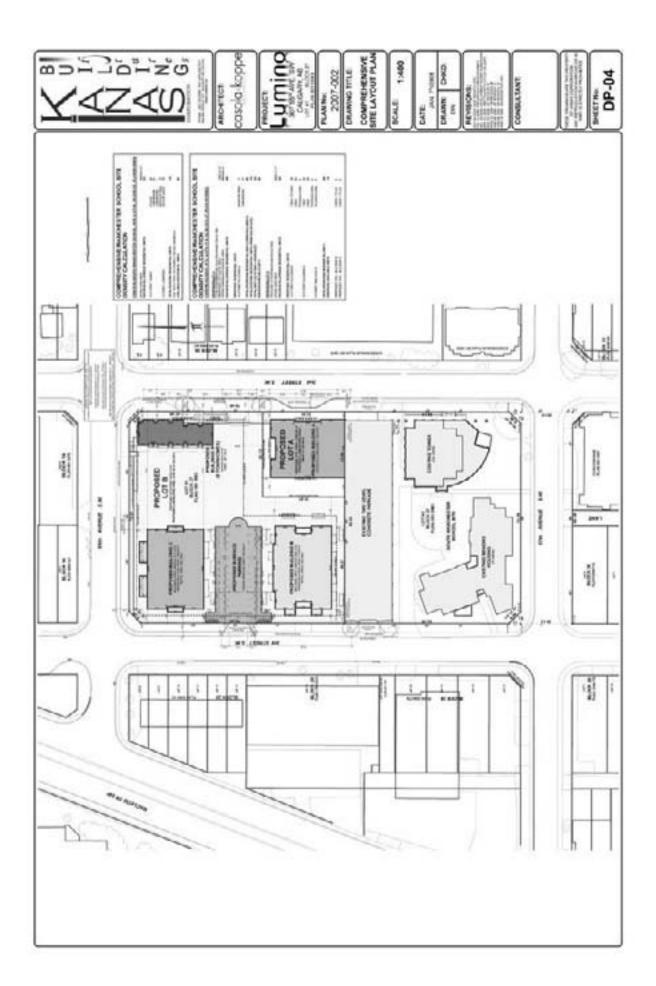
307 55th AVE. SW CALGARY, AB

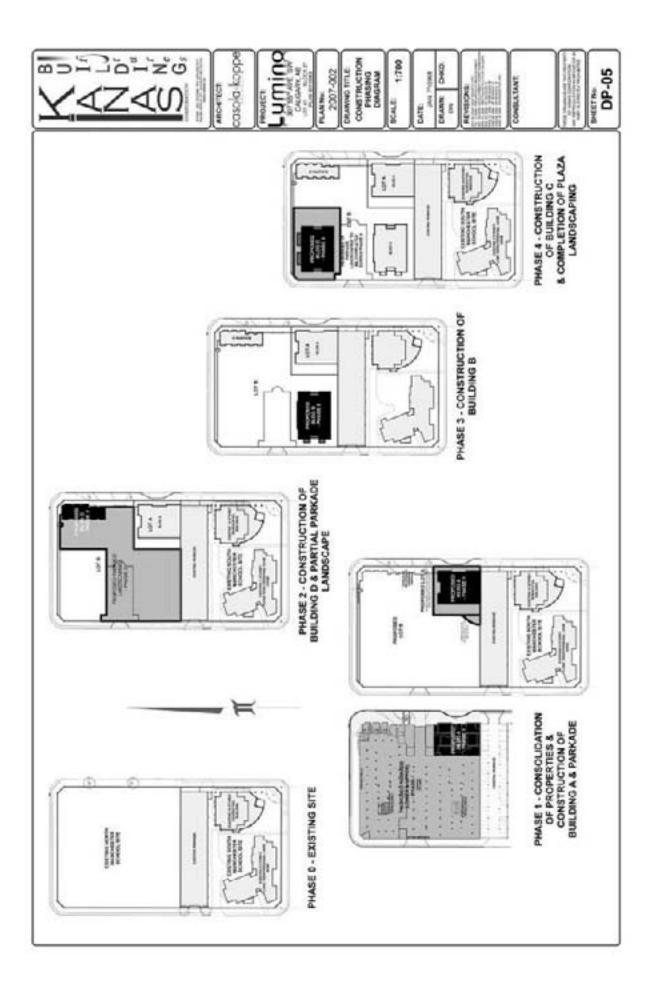
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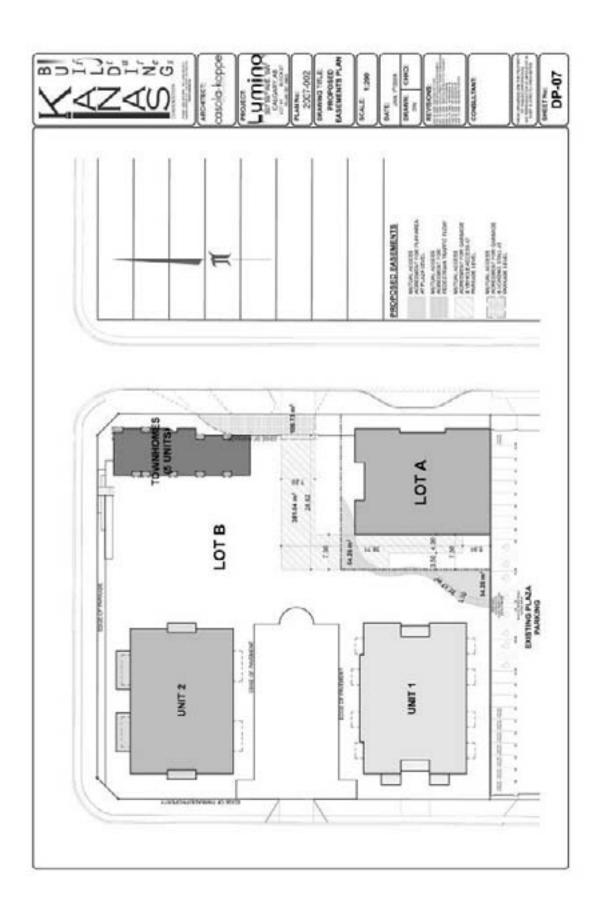


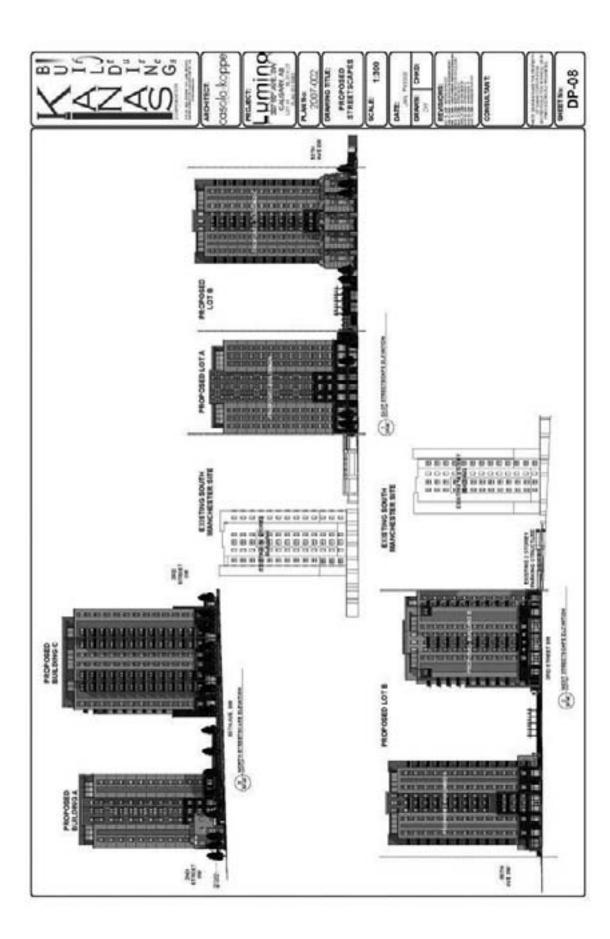


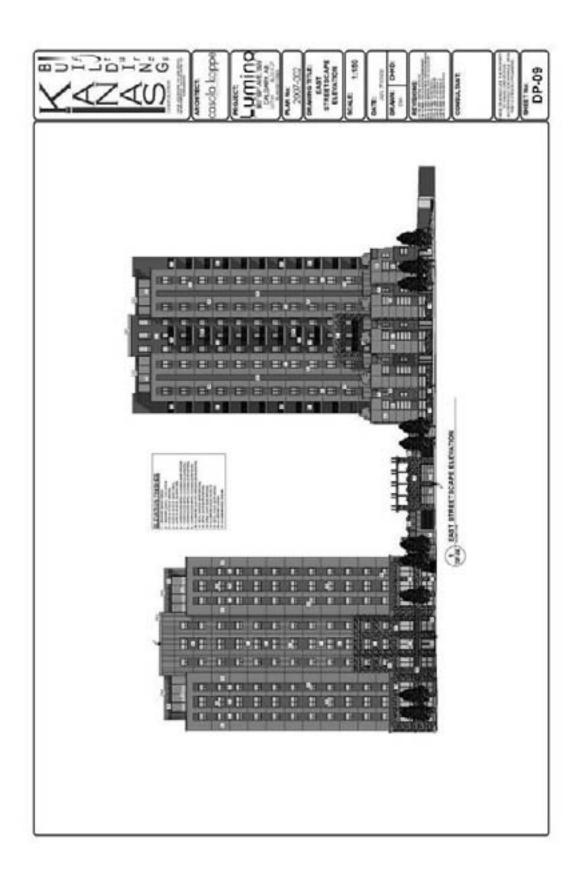


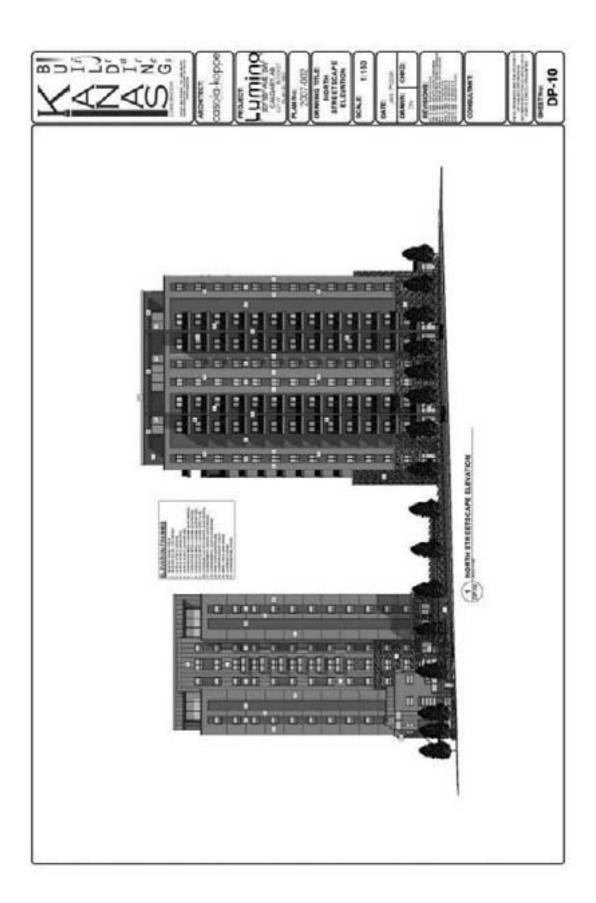


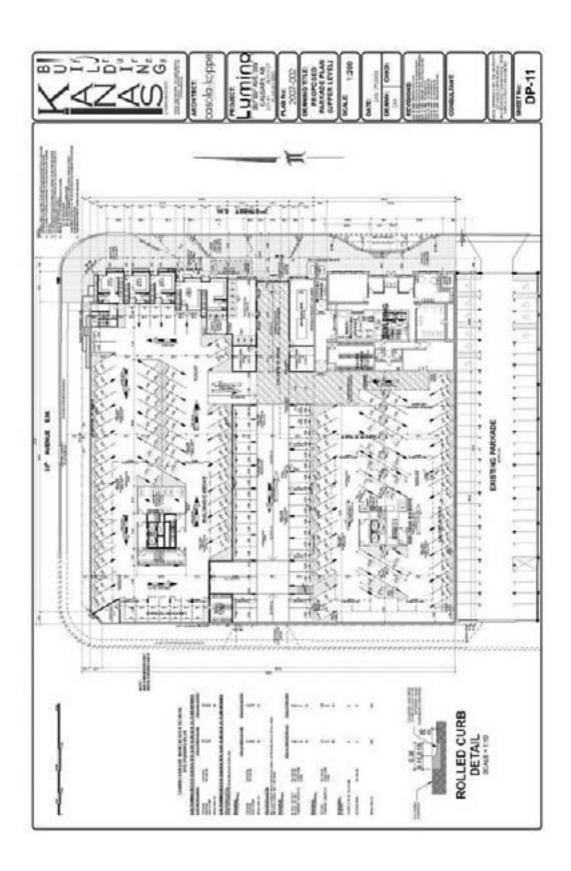


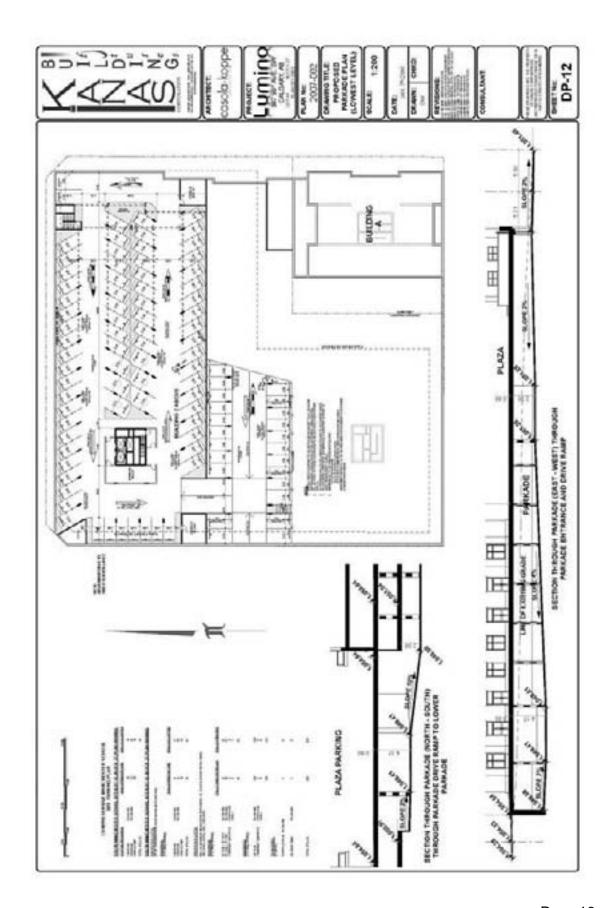




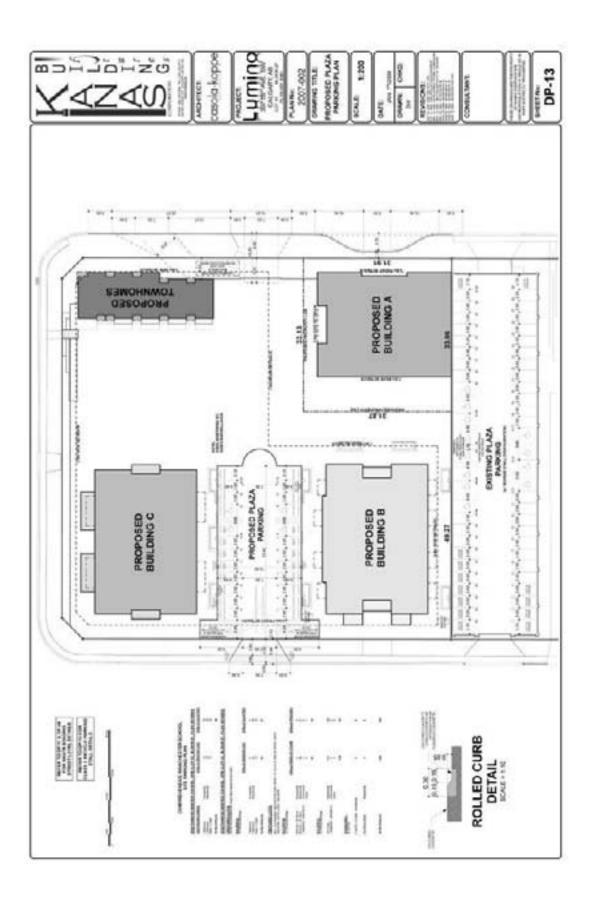




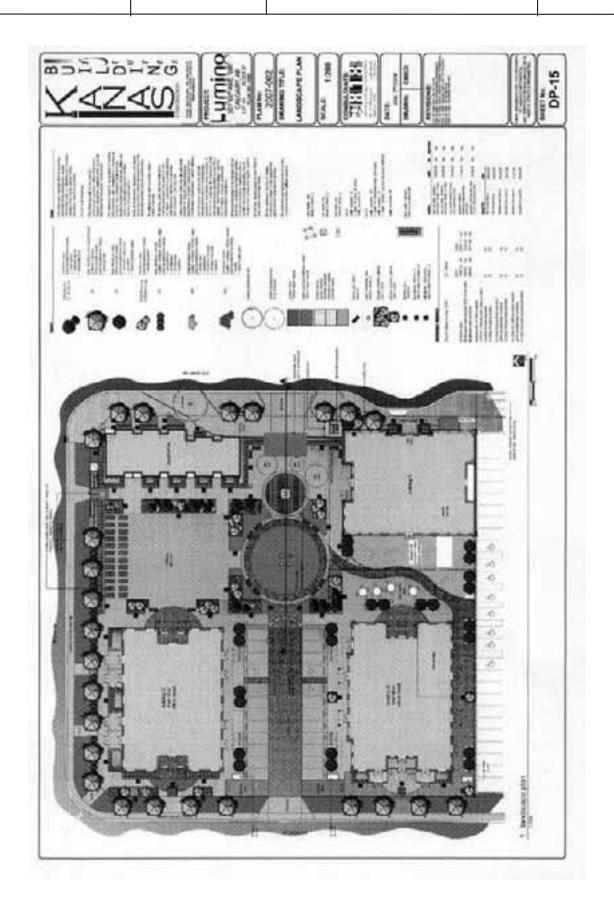


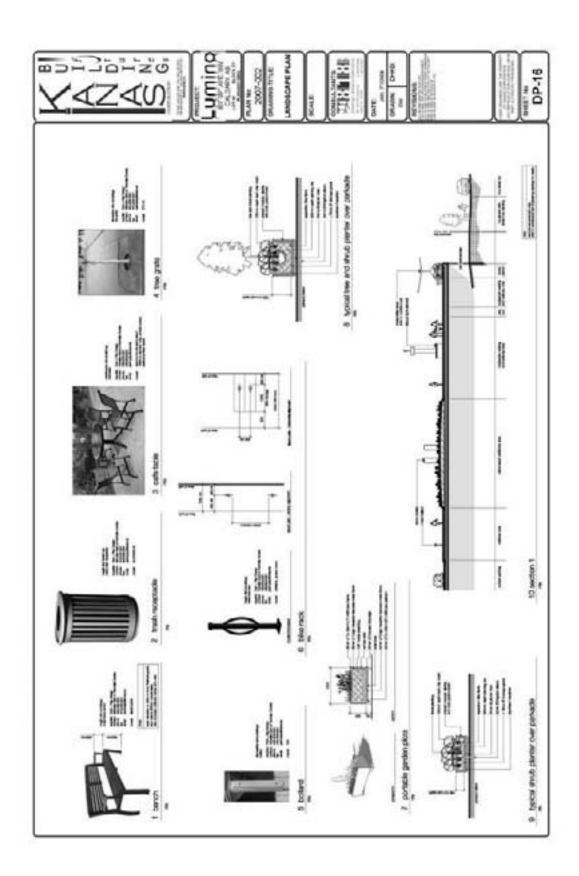


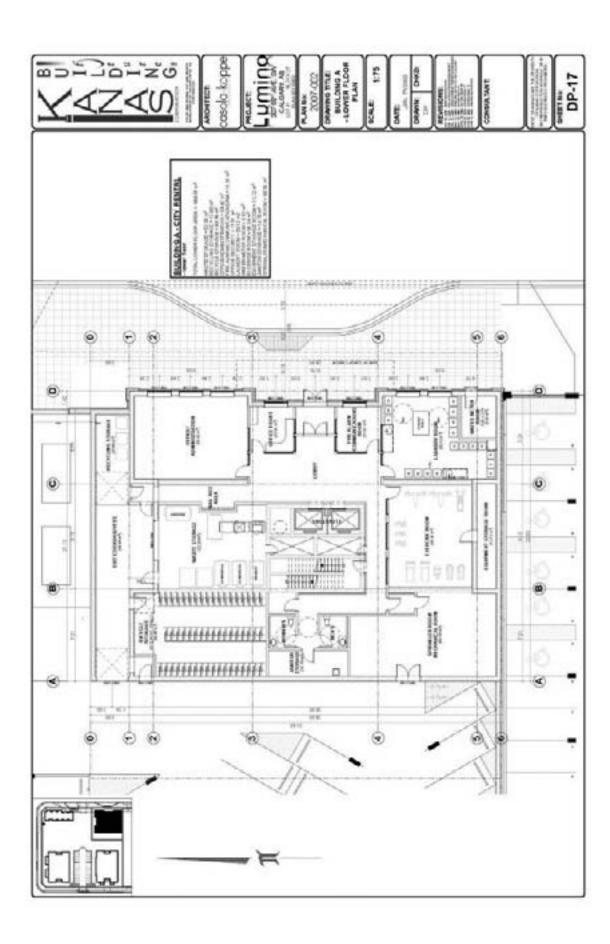
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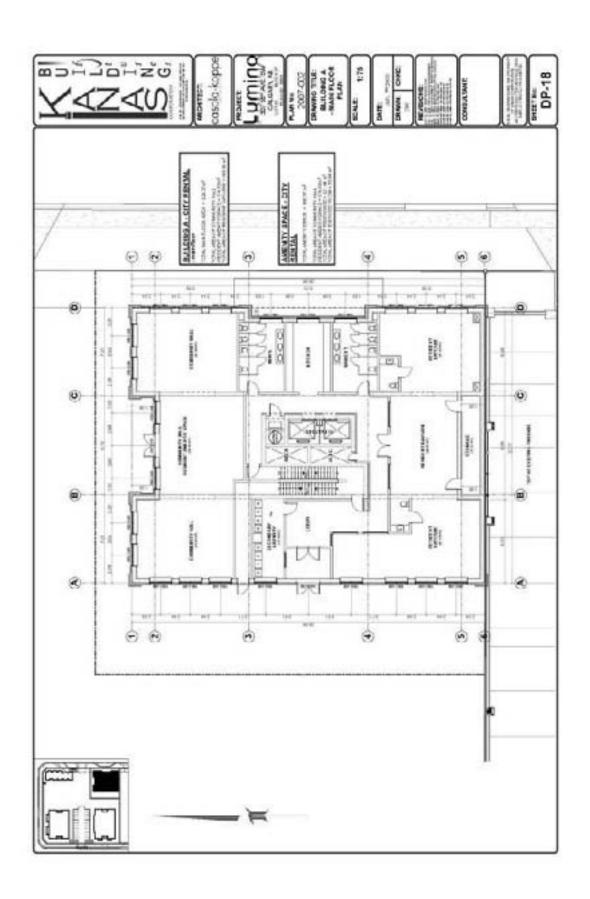
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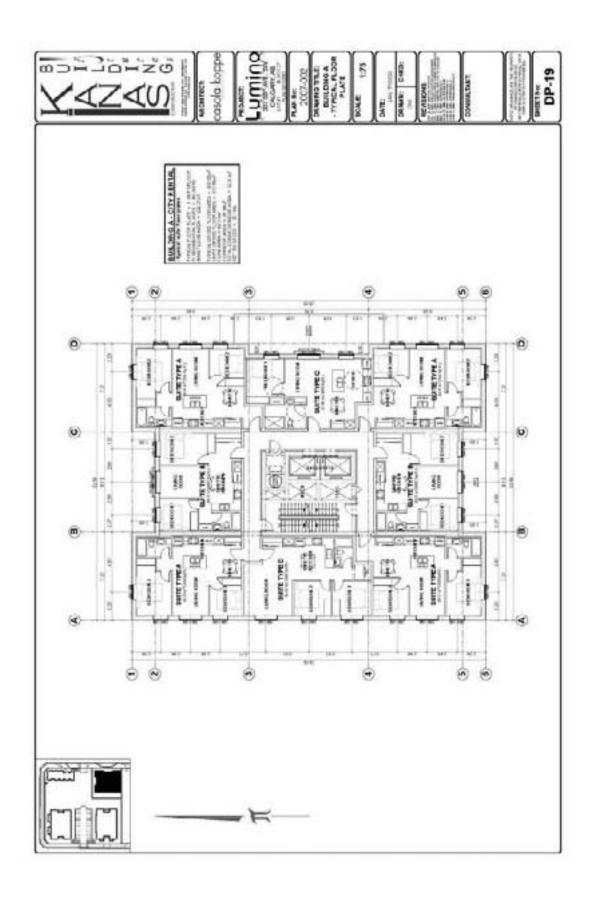


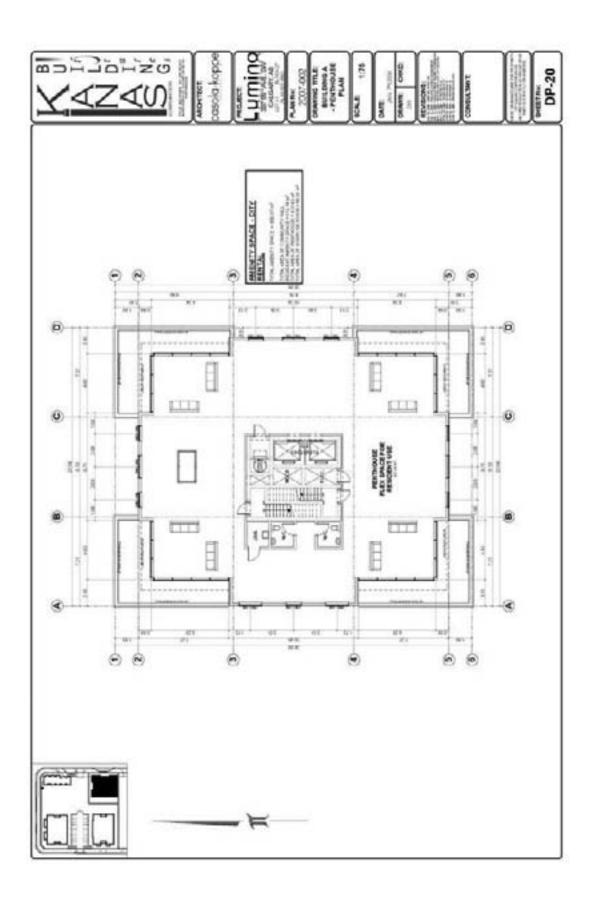


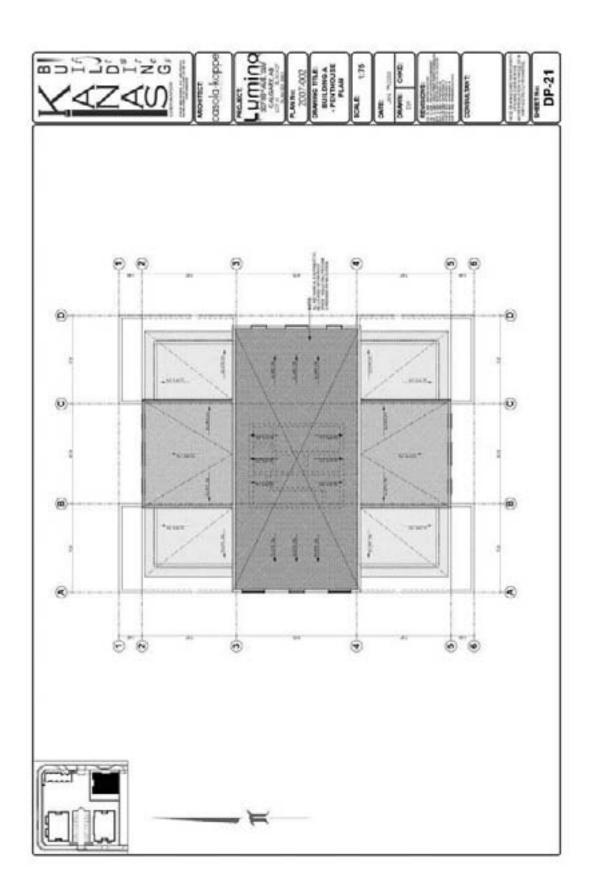
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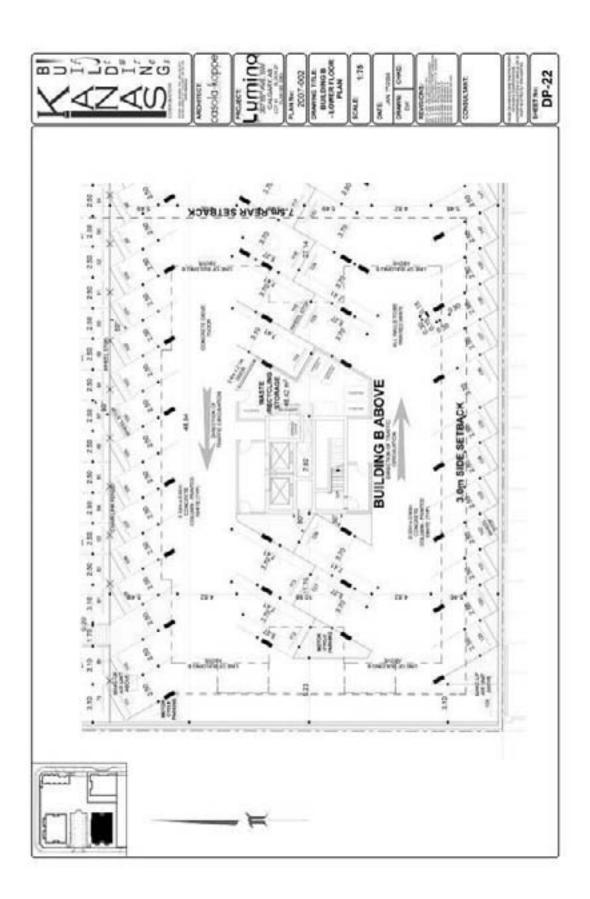


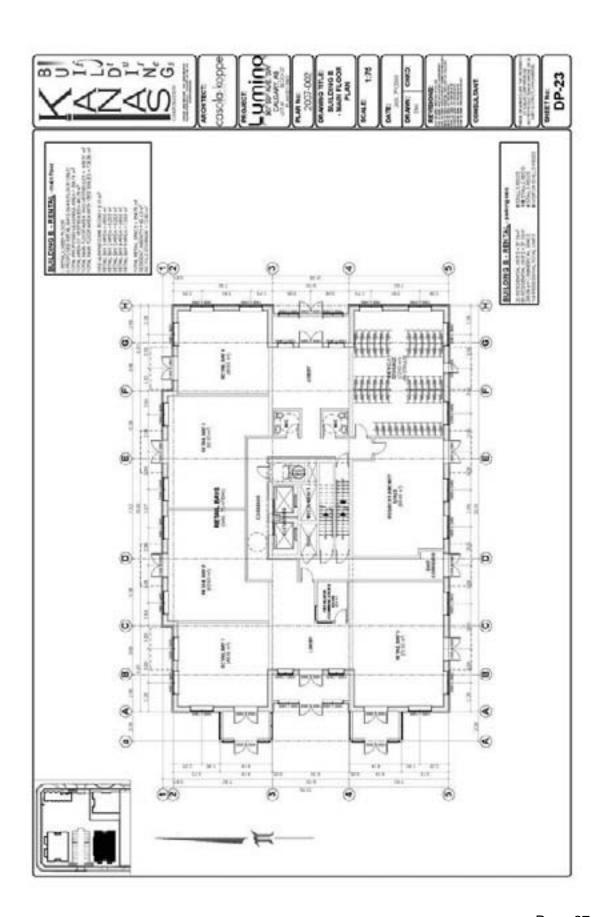
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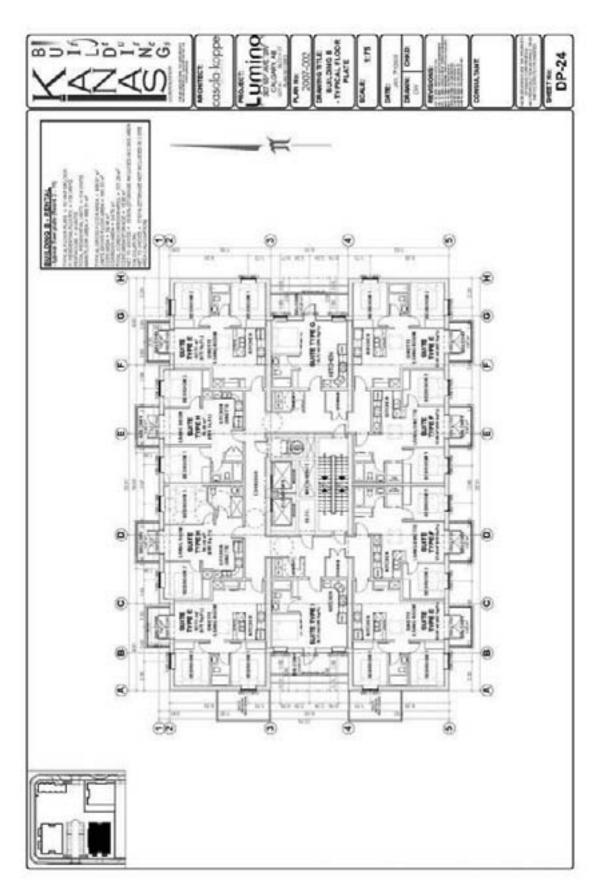


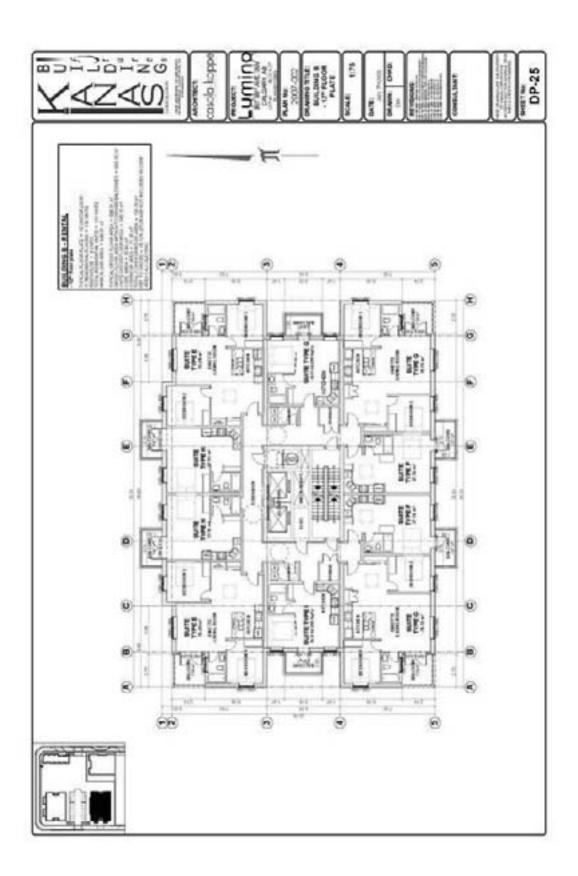


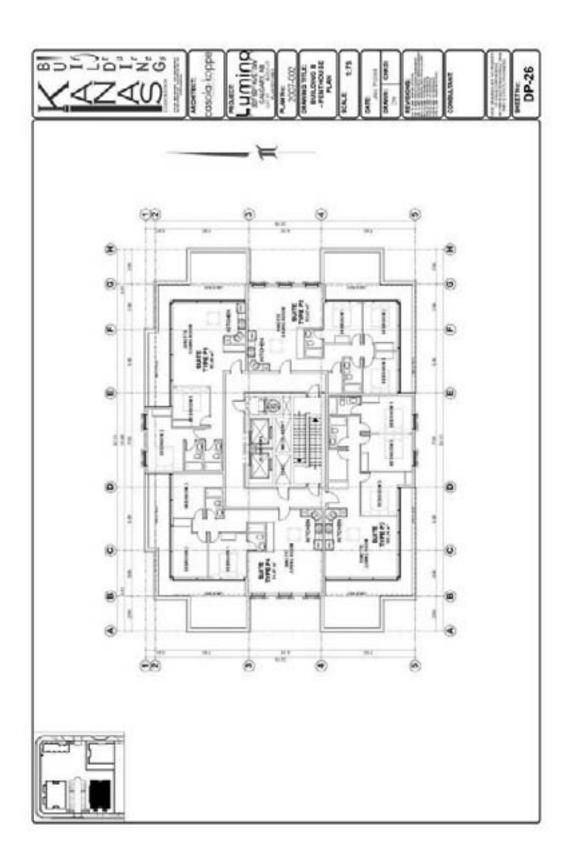


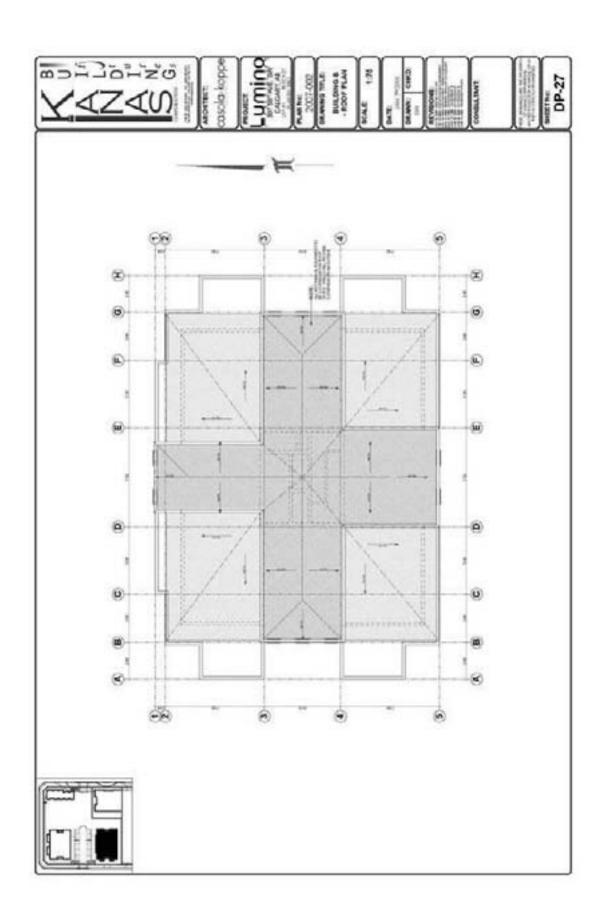


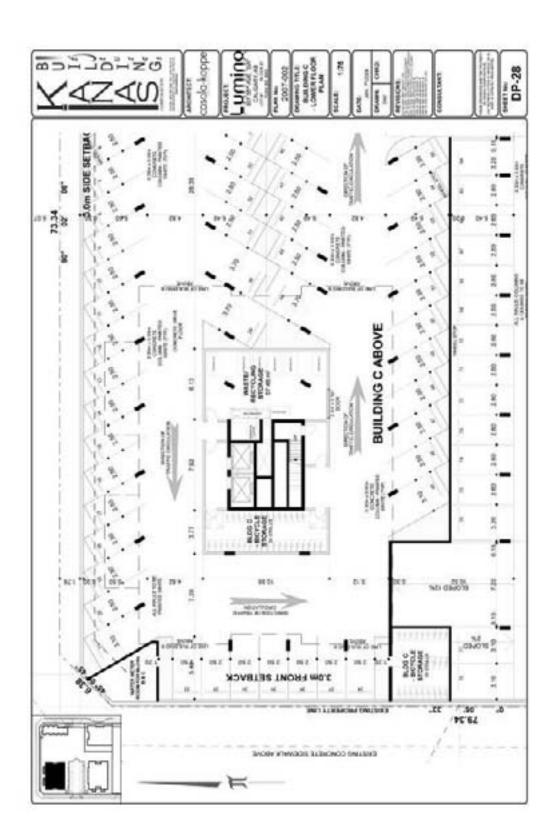


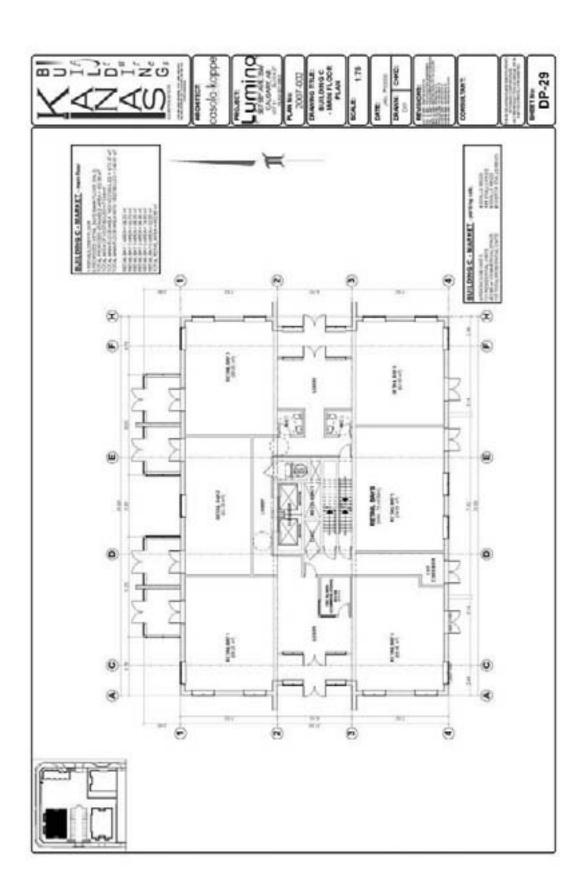


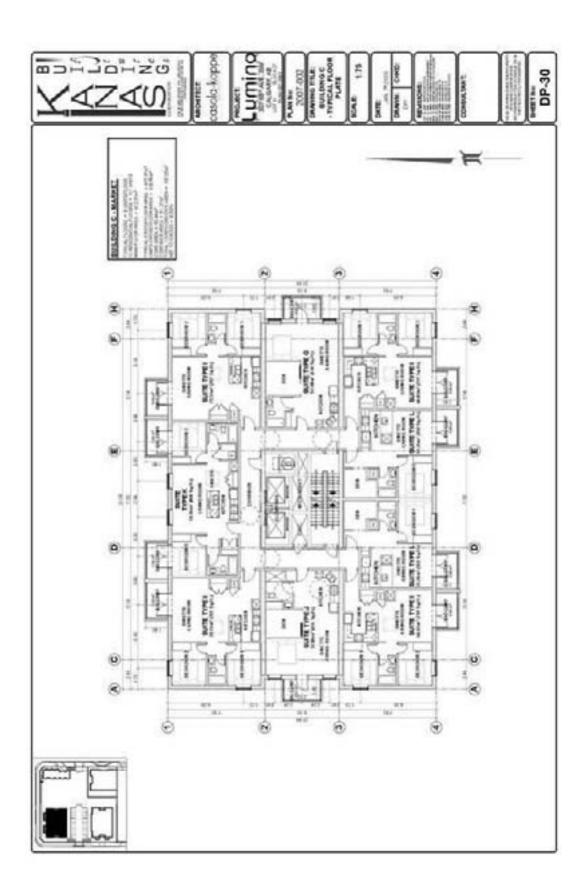


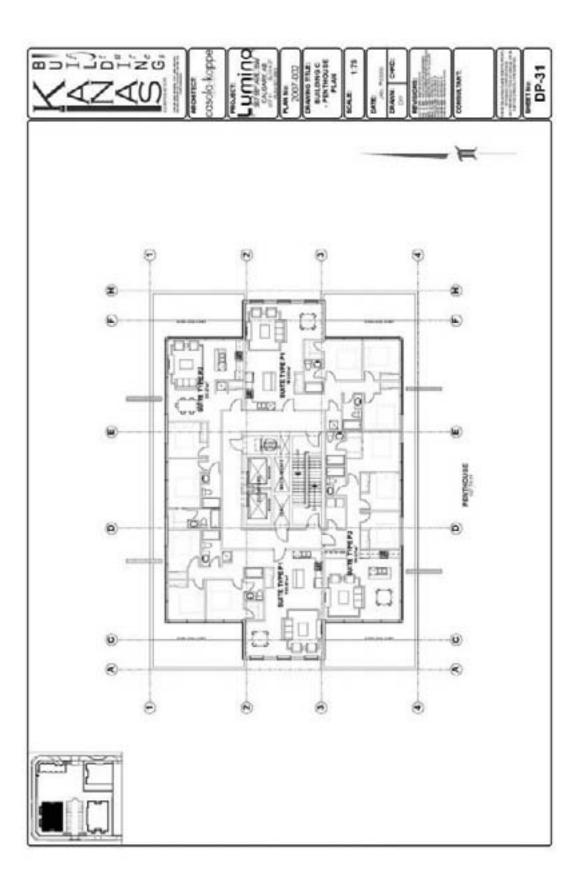


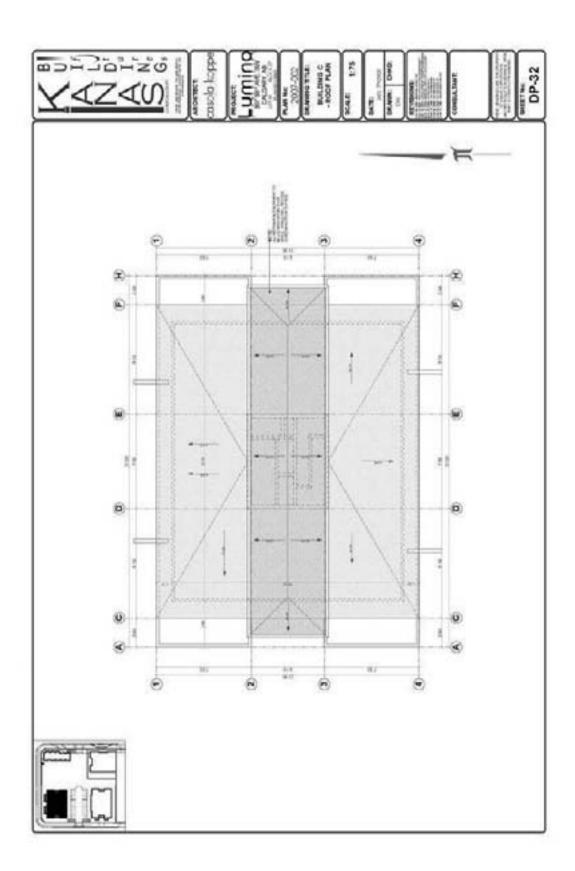


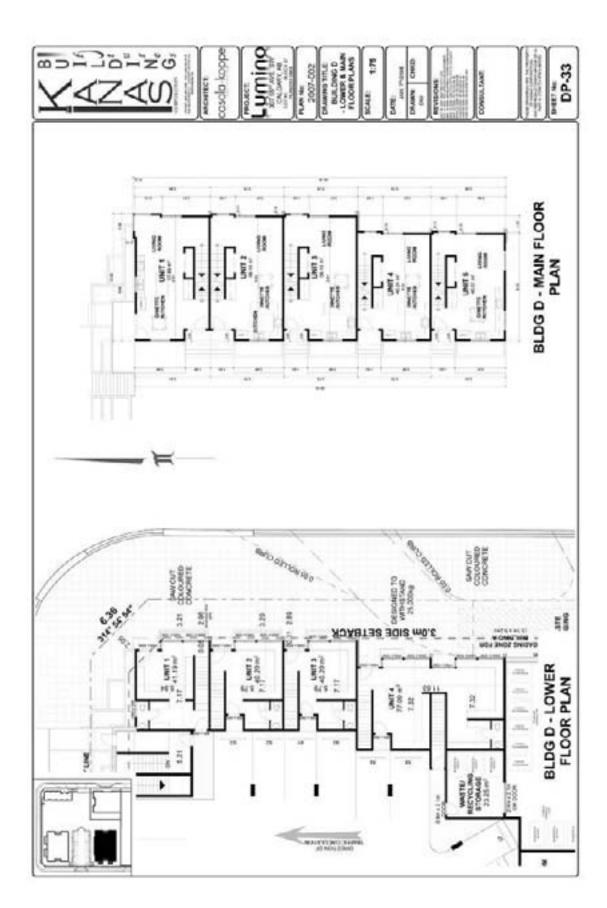


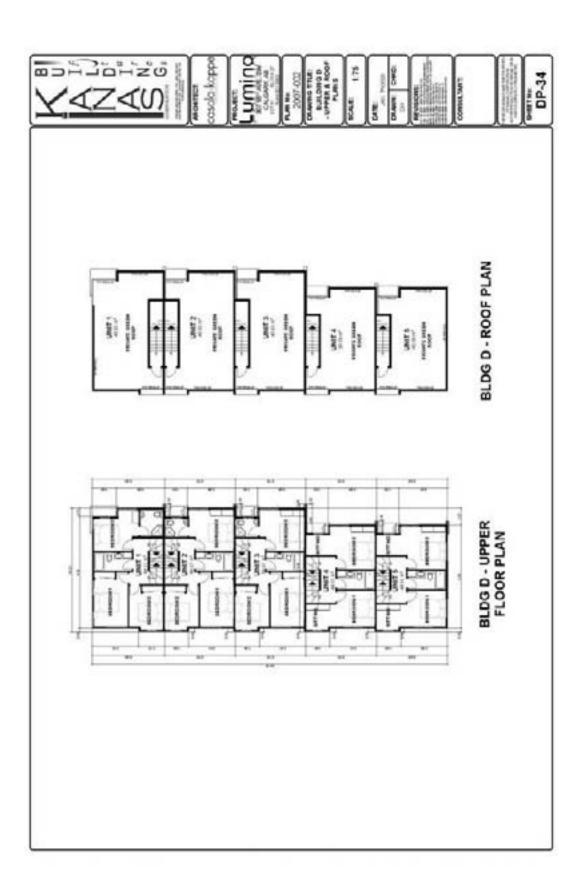


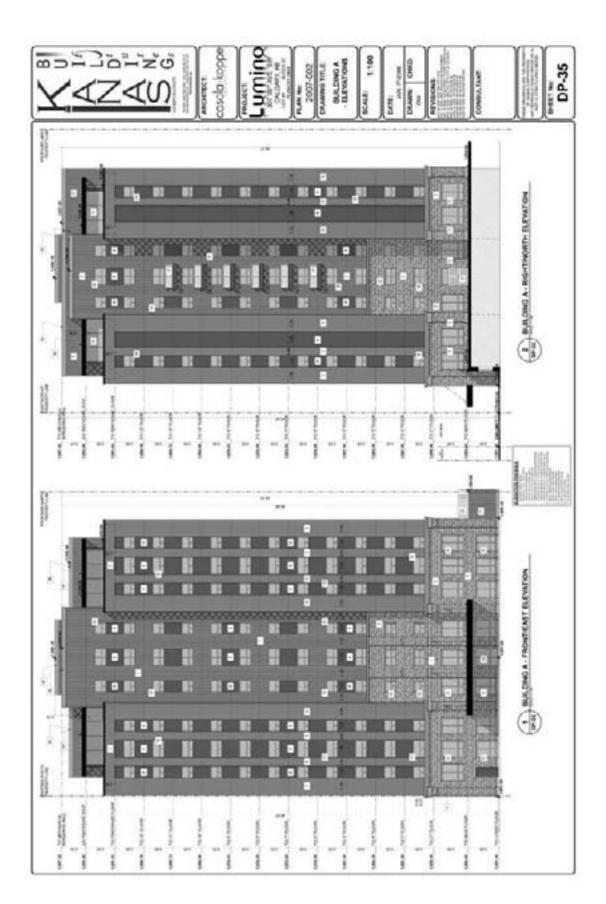


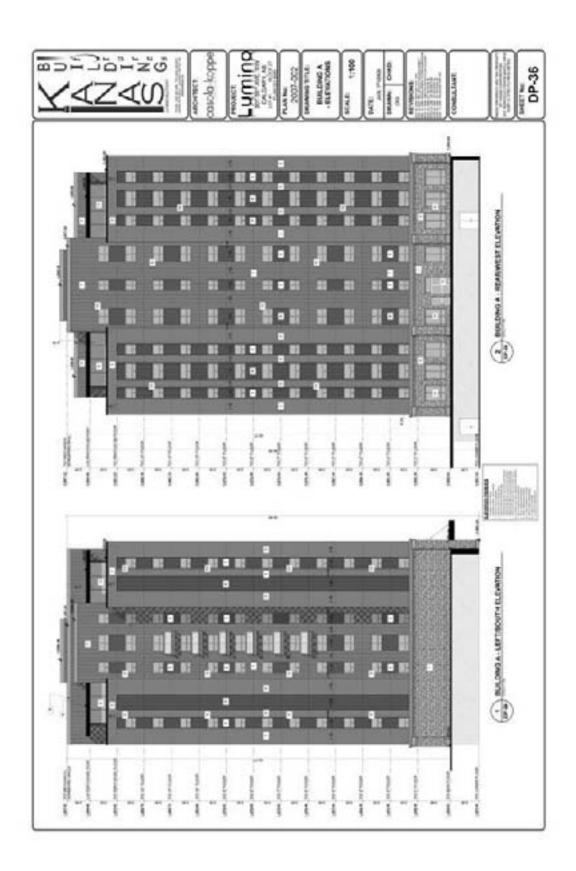


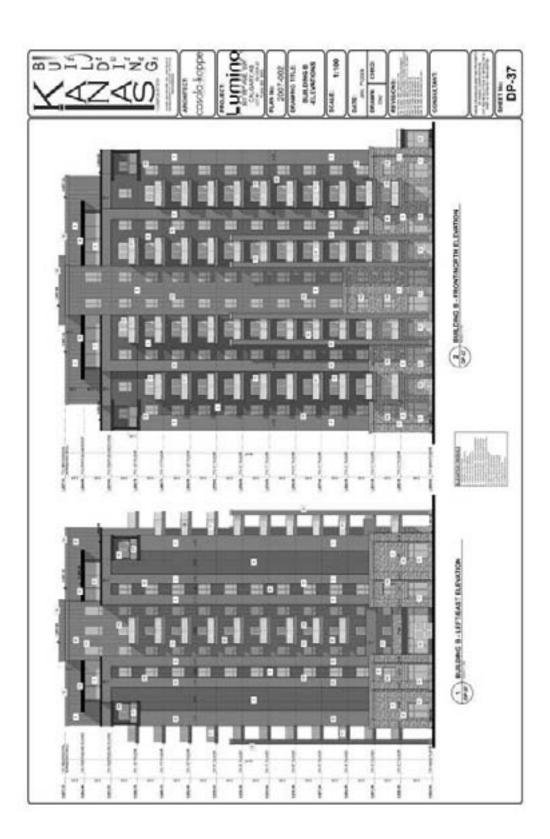


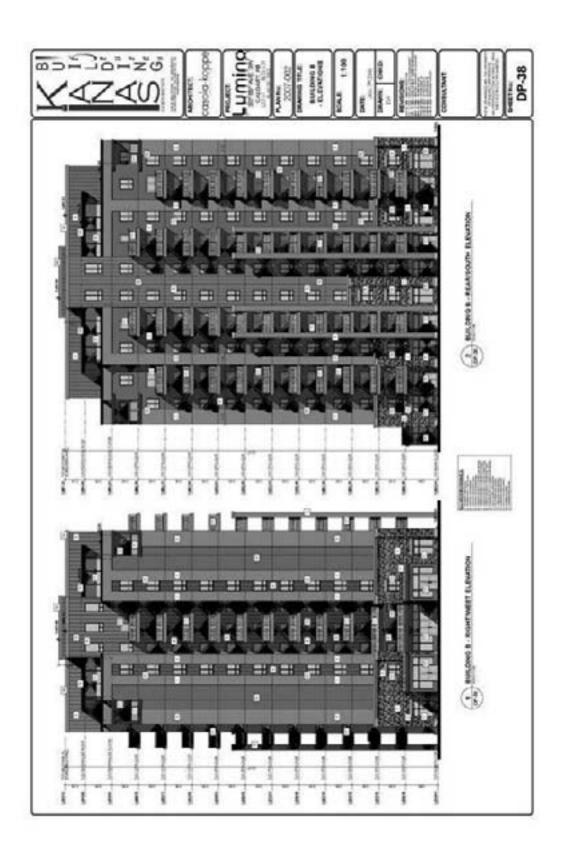


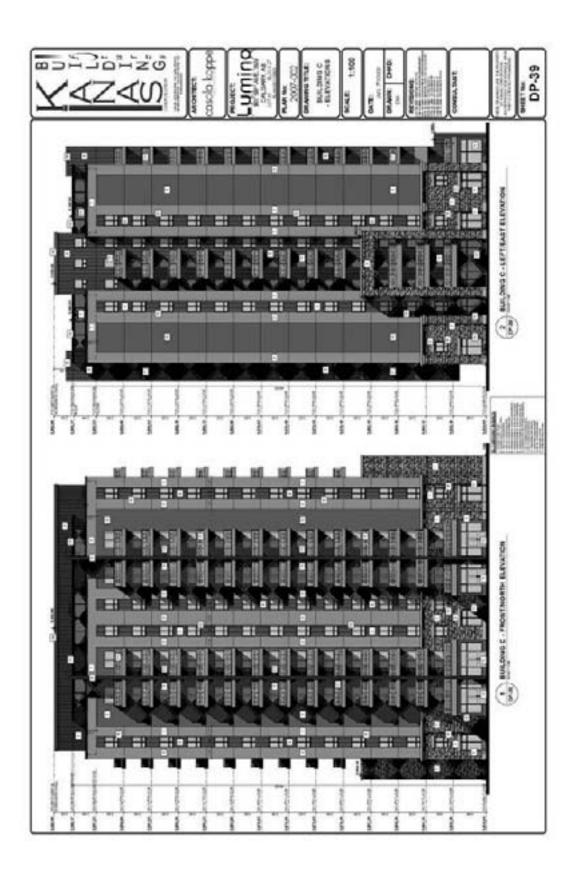


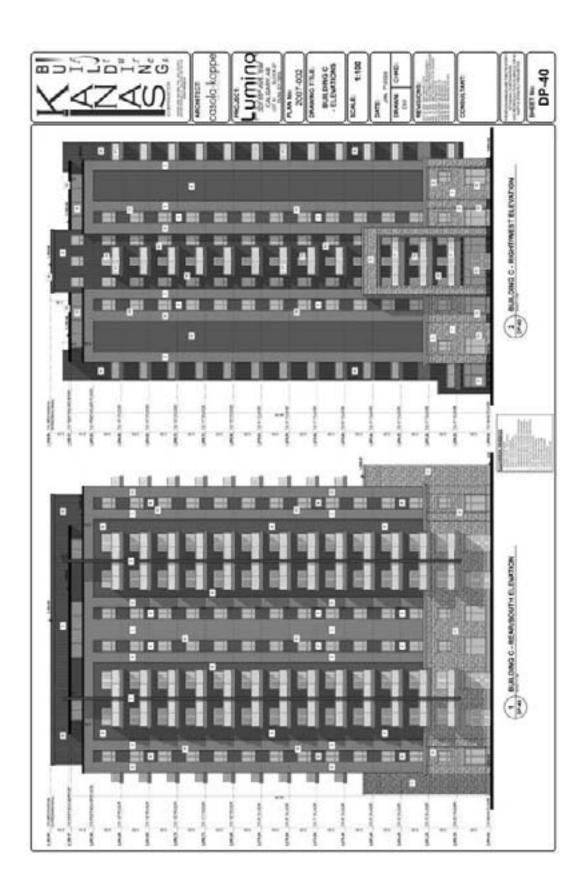


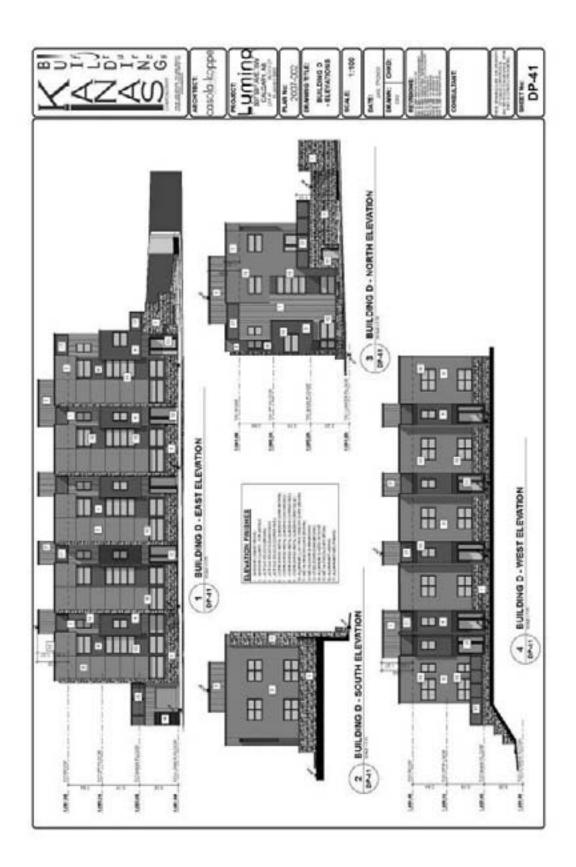


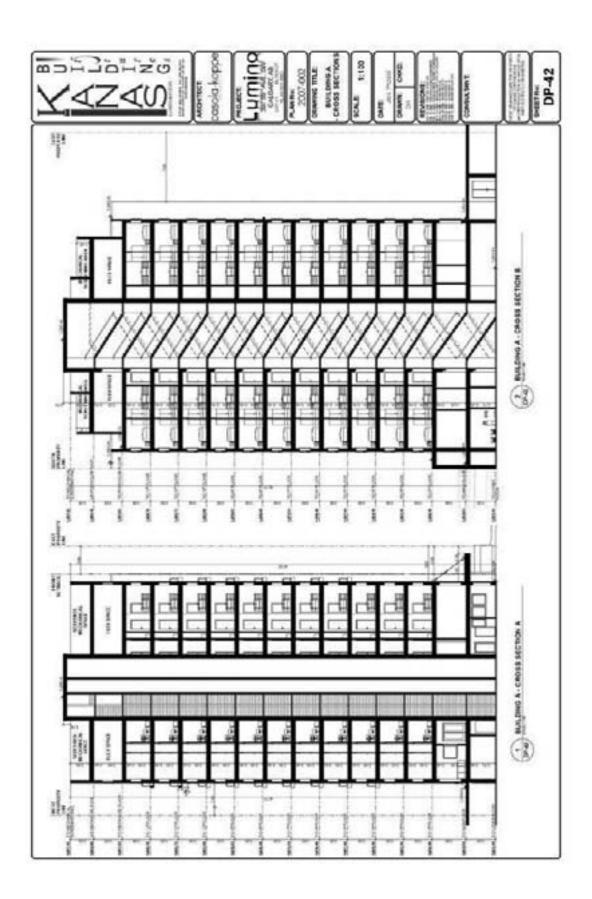


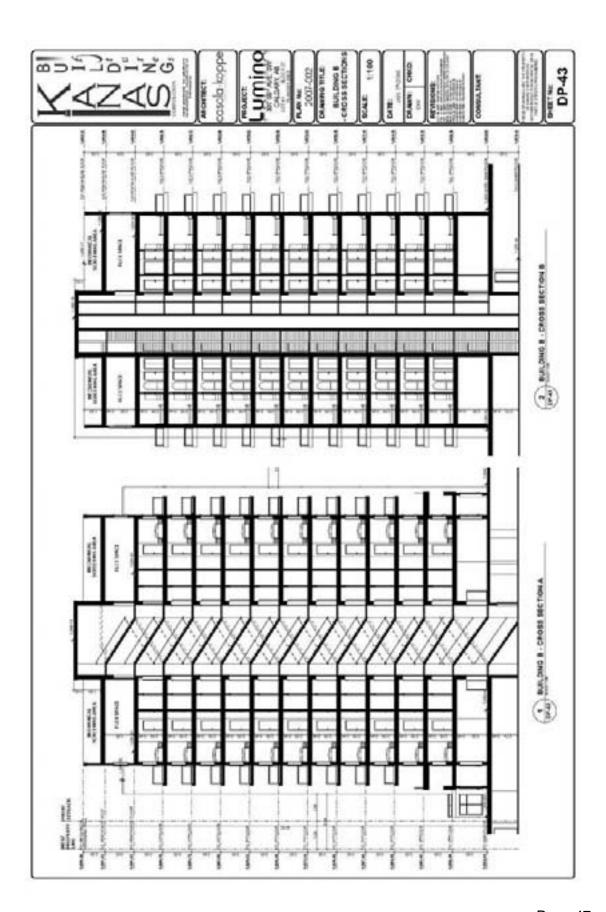


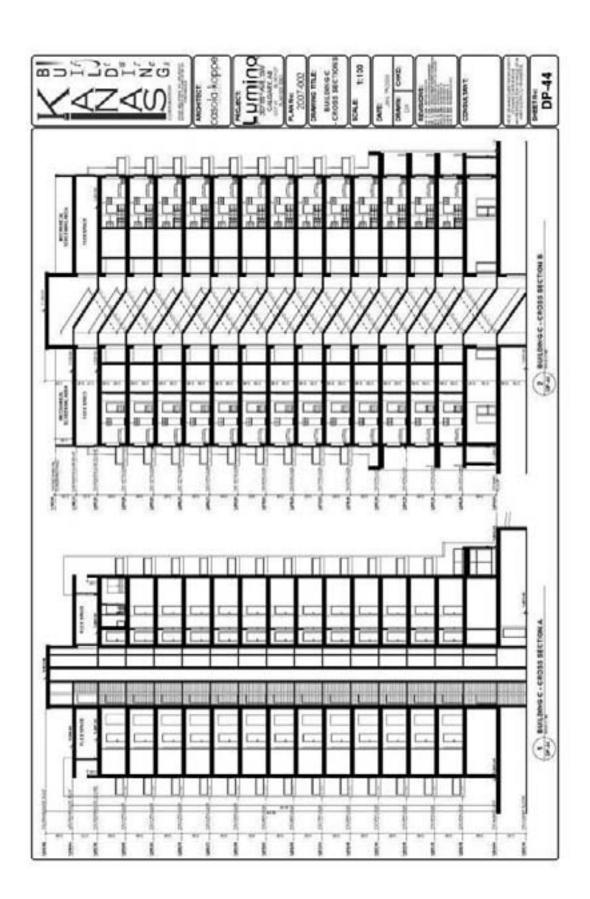


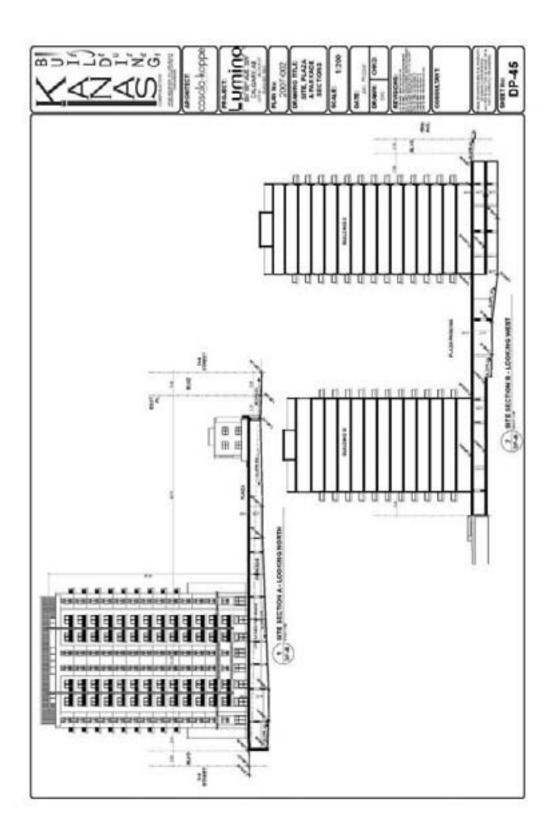


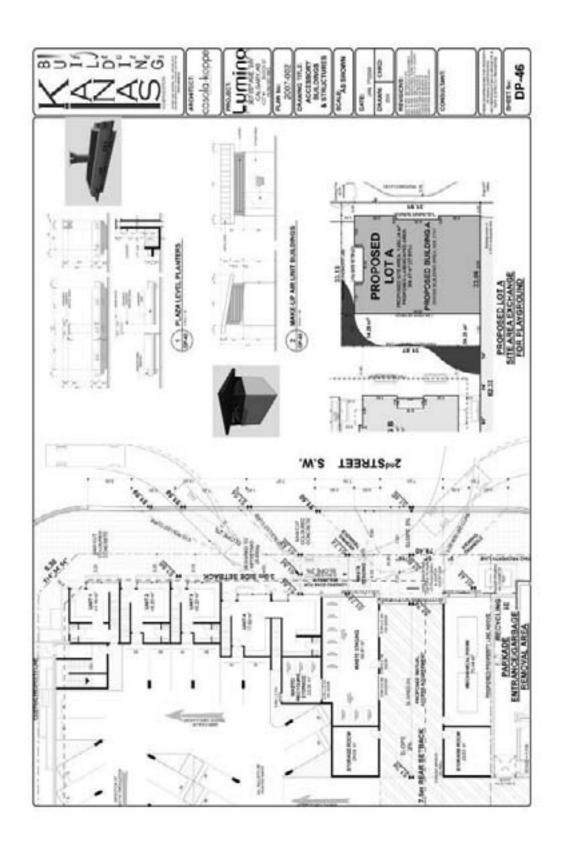








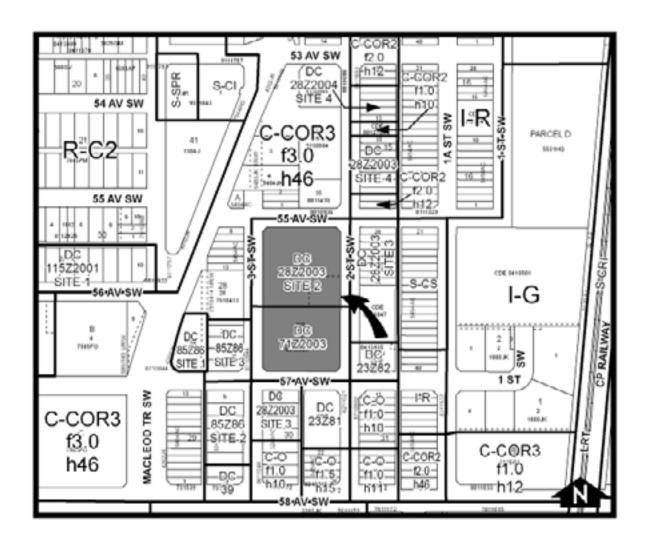




#### REPORT TO THE CALGARY PLANNING COMMISSION

DEVELOPMENT PERMIT	ITEM NO: 03		
	CPC DATE:	2009 June 25 2009 May 14	
	DP NO:	DP2009-0040	

# MANCHESTER (Ward 9 - Alderman Joe Ceci)



## PROPOSAL:

New: Apartment Building (3 buildings, 318 units), Retail Stores and parking revisions to existing development.

APPLICANT:	OWNER:
Kanas Corporation	The City of Calgary
MUNICIPAL ADDRESS:	LEGAL DESCRIPTION:
307 - 55 Avenue SW & 300 - 57 Avenue	0010983;27;41 & 0010983;27;42
SW	(Map 34S)

EXISTING LAND USE DISTRICTS: DC28Z2003 & DC71Z2003

AREA OF SITES: 1.25 ha (3.09 ac )

**CURRENT DEVELOPMENT:** 

307 - 55 Avenue SW: 14 storey apartment building (132 units) & special care facility (70

beds)

300 - 57 Avenue SW: Vacant

#### ADJACENT DEVELOPMENT:

NORTH: Commercial (MacLeod Trail S corridor)

SOUTH: High density residential (Existing development - Calgary Housing Company)

EAST: Low and medium density residential

WEST: Commercial (MacLeod Trail S corridor)

DEVELOPMENT SUMMARY – 300 57 Avenue SW – Building A			
DC71Z2003	BYLAW STANDARD	PROPOSED	RELAXATION
FRONT YARD PROJECTION	Maximum 0.6 metres	2.43 metres (at front entry)	1.83 metres
PARKING one stall/unit except no parking stall required for units < 37.16 square metres (400 sq ft)	206 stalls	111 stalls	95 stalls
AMENITY SPACE Each dwelling unit shall be provided with a private outdoor amenity space	Typically balconies but may be provided as on-site common or private outdoor space.	Common outdoor and indoor amenity space.	Partial relaxation required.

## **EXTERIOR FINISH MATERIALS**

Walls: Masonry, acrylic stucco and corrugated steel.

Roof: Corrugated steel and pre-finished aluminium flashing

Windows: Vinyl - triple glazed

DEVELOPMENT SUMMARY – 307 55 Avenue SW (Building B &C))			
DC28Z2003	BYLAW STANDARD	PROPOSED	RELAXATION
REAR YARD	7.5 metres	At grade - 3.09 metres Above – 5.48 metres	4.41 metres 2.02 metres
HEIGHT	46 metres to any eaveline	48.15 metres to penthouse eaveline	2.15 metres
UNIT SIZE	25% of the dwelling units may be 37.16 square metres or less in area (57 units)	58 Units	1 unit
COMMERCIAL COMPONENT	Commercial uses must front onto a local street	Six of 12 units front do not front onto a local street	50%

#### **EXTERIOR FINISH MATERIALS**

Walls: Masonry, acrylic stucco and corrugated steel.

Roof: Corrugated steel and pre-finished aluminium flashing

Windows: Vinyl – triple glazed

SUMMARY OF CIRCULATION REFEREES		
CPTED ASSESSMENT Crime Prevention Through Environmental Design	Comments provided – See appendix V	
ENVIRONMENTAL MANAGEMENT	Not applicable	
URBAN DESIGN REVIEW COMMITTEE	Not applicable	
COMMUNITY ASSOCIATION Windsor Park	No comments received.	

### **PLANNING EVALUATION**

### Introduction

The proposed development is located within the community of Manchester and is approximately 400 metres north of the Chinook Shopping Centre and 700 metres north of the Chinook LRT Station. The proposed development comprises two existing sites:

- 307 55 Avenue SW North Manchester vacant
- 300 57 Avenue SW South Manchester existing apartment building and seniors care facility

For ease of reference the sites are referred to as the North Manchester site and the South Manchester site for the remainder of this report.

On 2008 July 28 City Council approved the disposition of (a portion of) the North Manchester site to facilitate the development of a residential development that would incorporate affordable housing units. The development, as presented to Council, would provide a total of 318 dwelling units in three separate buildings.

A re-subdivision is required to accommodate the proposed development. A "portion" of the North Manchester site will be subdivided off and consolidated with the South Manchester site. This "portion" will be developed as the City owned Building A and will share the existing parking on the South Manchester site. The residual North Manchester site will be developed as the privately owned Buildings B and C.

South Manchester site (City owned):

- Proposed 88 unit apartment building (Building A)
- Existing 132 unit apartment building
- Existing 70 bed care facility
- Existing two storey parkade (111 stalls)

North Manchester site (privately owned)

- Proposed 110 unit apartment building (Building B)
- Proposed 120 unit apartment building (Building C)

#### **Site Context**

The existing South Manchester site development was approved in 2003. It is operated by the Calgary Housing Company.

### **Land Use District**

North Manchester site:

The site is designated as a Direct Control District under Bylaw 28Z2003 with RM-7 Residential High Density Multi-Dwelling District as the base district. See Appendix III.

South Manchester site:

The site is designated as a Direct Control District under Bylaw 71Z2003 with RM-7 Residential High Density Multi-Dwelling District as the base district. See Appendix III.

The uses and guidelines for both sites are essentially the same except:

- The South Manchester includes the additional uses of apartment-hotels, assisted living accommodation and special care facilities.
- The South Manchester sites allows a maximum of 50 percent of the dwelling units on site to be 37.16 square metres (400 sq ft) or less, whereas the North Manchester site allows a maximum of 25 percent to be 37.16 square metres (400 sq ft) or less.

## **Site Characteristics**

The vacant North Manchester site is undeveloped and with a cross fall from west to east of approximately three metres.

# **Legislation & Policy**

Locational Guidelines for Non-Market Housing:

On 2008 July 28 Council approved the "Locational Guidelines for Non-Market Housing". These guidelines are to be used for broad policy guidance and not as strict rules for operators and the development authority. A summary of the guidelines are included in Appendix IV.

The guidelines discourage very large scale single use developments and the over concentration of non-market housing in one area. The North and the South Manchester sites on completion will be occupied as follows:

Manchester Tower 132 existing units	Tenancy is for period of two years on the basis of a graduated rent linked to income. The intent is for the tenant to progress to other accommodation (at the low end of the market) at the end of the two years.
Building A – proposed 88 units	Intended to operate as per the Manchester Tower.
Building B – proposed 110 units	Building B has Provincial funding which requires rental at market less 10%.
Building C – proposed 120 units	Building C will be at market, with opportunities for home ownership (as per applicant).

Chinook House, comprising 57 affordable units and 60 market units is located immediately to the south of the existing South Manchester site.

This development will ultimately include a variety of housing options that will create the opportunity for residents to move through the spectrum from deep subsidy to home ownership whilst remaining within the same community.

Manchester Area Redevelopment Plan (ARP) - approved by City Council March 2003:

The ARP identifies the site for medium to high density residential development.

The ARP promotes a "vital residential community with local commercial uses" in close proximity to the downtown and encourages the development of affordable housing units where feasible.

The ARP promotes the development of the 2 Street SW frontage as an enhanced pedestrian area through building design, the provision of wider sidewalks and street furniture and minimisation of vehicular access from 2 Street SW.

The sidewalk has been extended the full length of 2 Street SW. Boulevard tree planting and seating areas are proposed at street level.

# Site Layout & Building Design

Plans are attached as Appendix I.

## Building A:

The proposed building is a 14 storey apartment complex comprising 88 residential units – 77 two bedroom and 11 one bedroom units. The lower floor, main floor and penthouse floor provide office accommodation, an in-house daycare, laundry facilities, bike storage and resident amenity space.

There is no private outdoor amenity space (balconies) provided. As an alternative a structured at grade play area is provided at grade. In addition, quality common amenity has been provided within the building as follows:

- Community hall 600 square metres
- Exercise room 40 square metres
- Penthouse flex area 420 square metres
- In-house daycare 230 square metres

The principal access is at grade from 2 Street SW with alternative access from the plaza level.

## Building B

The proposed building is a 13 storey mixed use complex comprising 110 residential units – 84 two bedroom units and 26 studio units. The main floor consists of the entry lobby and six small retail units (less than 75 square metres) and resident amenity space. Additional indoor residential amenity space is provided at the penthouse level and each unit has a private balcony.

## Building C

The proposed building is a 15 storey mixed use complex comprising 120 residential units –62 two bedroom units, 26 one bedroom units and 32 studio units. The main floor consists of the entry lobby and six small retail units (less than 75 square metres). Additional indoor residential amenity space is provided at the penthouse level and each unit has a private balcony.

#### Parkade

The partially below grade parkade structure provides parking for Buildings B and C only with access from Second Street, the lowest at grade entry point on the site. A two storey building is incorporated into the parkade structure on the east side which contains secure bicycle stalls, storage and a central garbage pickup location for all three buildings.

#### **Finishes**

The buildings make use of a common unifying theme through the selection of finish materials and colours. A deeper toned masonry finish is utilized at the base of the buildings. The vertical elements are accentuated through design elements, finish material and colour. The façade finishes are predominantly masonry, acrylic stucco and vertical corrugated steel cladding.

#### **Subdivision and Easements**

Subdivision application, SB2009-0004, is pending approval. The application is an integral requirement of the proposed development. The key elements are as follows (see Appendix II):

- The subdivision will result in two reconfigured parcels, one City owned and the other privately owned.
- A strata subdivision is required to accommodate vehicular circulation and parking for Buildings B & C at the parkade level. This will occur immediately adjacent to and west of Building A at the parkade level. In addition, it enables Alberta Building Code requirements to be met.

The development as proposed requires a number of easements and these requirements are part of this Development Permit application. The requirements include:

- Mutual Access Agreement for garbage and vehicle movement at the parkade level –
  provides vehicular access to Building A for maintenance, etc. and provides Building A
  with access to the shared garbage collection facility.
- Mutual Access Agreement for garbage and loading at the Second Street SW frontage –
  provides access, for Building A, to the garbage pick-up area. In addition, this area will
  also be used as a loading zone for Building A.
- Mutual Access Agreement for the play area at the plaza level allows for a more useable play area associated with the in-house day care associated with Building A.
- Mutual Access Agreement for pedestrian flow provides a more direct barrier free access from the upper level of the existing parking on the South Manchester site to Building A.

#### **Environmental Site Assessment**

Not required.

#### Landscaping

The landscaping is located primarily at the plaza level and includes grassed areas, shrubs and tree planting. The hard landscaping provides for pedestrian circulation on site and seating areas are provided throughout the site. A focal seating area is provided at the east end of the site. A basketball court is incorporated as an active amenity area. A playground area is provided adjacent to the Building A in-house day care facility. Pedestrian access to the site is from 55 Avenue SW and from 3 Street SW.

In addition the applicant is proposing twenty boulevard trees on the perimeter of the site and seating areas on the 2 Street SW frontage.

## Site Access & Traffic

There are two vehicle access points to the site – one from 3 Street SW to the surface parking at the plaza level and the other from 2 Street SW to the parkade. A vehicle lay-by is proposed adjacent to the entrance to Building A for resident pickup and drop off.

Access to the central garbage pickup is from 2 Street SW.

A traffic impact assessment was not required.

# **Parking**

The Direct Control Districts for each site require parking to be provided as follows:

- one parking stall per residential unit greater than 37.16 square metres (400 sq ft).
- one parking stall per 92 square metres net floor area for commercial uses.

The residential parking requirement includes for visitor parking.

# Building A:

A parking relaxation is required. As noted earlier, Building A will be consolidated with the existing South Manchester development. There is no additional parking proposed as part of Building A. Building A will utilise existing parking on the South Manchester site. Parking will be provided as follows:

Required:	Existing South Manchester		118 stalls
	Proposed Building A		88 stalls
		Total required	206 stalls
Provided			111 stalls
		Deficient	95 stalls

Factors supporting the relaxation are as follows:

- Proximity to the Chinook LRT Station less than 700 metres.
- Proximity to bus service (MacLeod Trail) 150 metres
- Historically the parking for the existing Manchester South Site is substantially underutilised – approximately 25 percent.
- The operator of Building A, Calgary Housing Company (CHC), has indicated that the proposed parking will adequately meet their needs. Also, CHC is able manage their tenant list to ensure sufficient parking is always available.

## Buildings B and C:

The parking requirements are as follows:

Residential:	Bldg B – 1 stall/unit	110 stalls
	Bldg C – 1 stall/unit	120 stalls
	-	230 stalls
	Less: Stalls not required for units	
	< 37.13 m <sup>2</sup> (58 units)	58 stalls
		172 stalls
Commercial	Stalls required –1 stall/92 m <sup>2</sup> NFA	8 stalls
	Total required stalls – residential & commercial	180 stalls

A total of 208 stalls are provided, 38 stalls at the plaza level and 170 stalls in the parkade. The applicant has indicated that two of the stalls will be utilised for car share purposes. The surface parking will be utilised by the retail units and for residential visitor parking.

## Site Servicing for Utilities

A stormwater extension is required. The applicant will need to submit a design for City approval prior to construction.

## **Environmental Sustainability**

City Council requirement for Building A is Built Green Silver. The applicant has committed to building the entire project to a Platinum Built Green rating. See Appendix VI.

## **Community Association Comments**

Manchester does not have a community association. The application was circulated as a courtesy to the closest residential community, Windsor Park. No response was received.

## **Adjacent Neighbour Comments**

The property was notice posted and no written comments were received.

#### **CONCLUSION:**

The proposal is supported for the following reasons:

- 1. The development provides much needed range of affordable housing.
- 2. The development complies with the intent of Manchester Area Redevelopment Plan, i.e. encouraging the development of affordable housing.
- 3. The development complies with the intent of the Direct Control District.

## CORPORATE PLANNING APPLICATIONS GROUP RECOMMENDATION: APPROVAL

The Corporate Planning Applications Group recommends APPROVAL with the following conditions:

## PRIOR TO RELEASE REQUIREMENTS:

## Planning:

54. Submit a total of six (6) complete sets of amended plans (file folded and collated) to the File Manager that comprehensively address the prior to release conditions of all Departments as specified below. In order to expedite the review of the amended plans, three (3) sets shall highlight all of the amendments. Please ensure that all plans affected by the revisions are amended accordingly. In the event that the prior to release conditions are not resolved, an \$886 recirculation fee may apply.

# **Urban Development:**

55. Amend the plans to:

## Water Resources - Sanitary and Stormwater Servicing

- a. Provide single sanitary tie-in to City mains and on-site service connections on Lot 'B' for building 'B' and 'C' complete with a test manhole located at public right of way. Provide detail on the DSSP plans.
- b. Provide storm extension required from 55 Av. SW on 2 St. SW. to service proposed lot 'A' and lot 'B'. Submit 3 sets of storm extension design plans for approval from Water Resources.

Contact Lam Huynh, Water Resources, Development Approvals @ 403-268-3730 for further details.

- 56. Submit a Sanitary Servicing Study prepared by a qualified professional engineer under seal and permit to practice stamp. The report shall identify potential impact and/or "pinch points" within the public sanitary sewer system caused by the ultimate flows generated by the proposed development. Associated costs will be at the expense of the developer. For further information, contact the Leader Development Approvals in Water Resources at 268-3730.
- 57. The developer must apply for a line assignment from Utility Line Assignments for storm extension alignment in the City road right-of-way along 2 St. SW. This application consists of a cover letter and six (6) scaleable site servicing plans (1:250 or 1:500 preferred) indicating the following information:

Property lines Curb/sidewalks

Existing utilities along the road right of way

Existing features (e.g. streetlight poles, hydrants, existing trees, etc.)

Dimensions from property line to all of the above features

Due to the number of applications reviewed by this office, it will typically take two weeks for a response. The letter can be addressed to: Supervisor, Utility Line Assignments, 6<sup>th</sup> Floor – 800 Macleod Trail S.E., Calgary, Alberta, T2P 2M5, Location #8026.

58. Enter into an Indemnification Agreement for the construction of watermain upgrade and storm sewer extension on 2 St. SE. Contact the Water Resources, Leader Inspection Services at 403-268-4385 and Lam Huynh, Water Resources, Development Approvals @ 403-268-3730. The existing 150mm mains on 2 St. SW. and 3 St. SW. are undersized for today's standard.

The following documentation is required to execute the agreement:

- c. A contract is signed and executed by both parties,
- d. A security deposit is received by the City, and
- c. An insurance policy is received that protects the City against any unforeseen accidents.

- 59. Provide a letter to confirm the owner will remove the benches from within the City road right-of-way, at the owner's expense within 30 days' notice from the City of Calgary requesting removal.
- 60. Remit a performance security deposit (certified cheque, bank draft, letter of credit) for the proposed infrastructure listed below within the public right-of-way to address the requirements of the Business Unit. The amount of the deposit is calculated by Roads and is based on 100% of the estimated cost of construction.

The developer is responsible arrange for the construction of the infrastructure either with their own forces or may elect to have the City construct the infrastructure on their behalf.

If the developer elects to construct the infrastructure with their own forces, the developer will need to enter into an Indemnification Agreement at the time of construction and the deposit will be used to secure the work.

#### Roads

- f. Construction of new driveway crossings on 3 St. SW.
- g. Closure and removal of existing driveway crossings on 55 Av. SW.
- h. Construction of new sidewalks adjacent to 3 St. SW.
- i. Rehabilitation of existing driveway crossings, sidewalks, curb and gutter, etc., should it be deemed necessary through a site inspection by Roads personnel,
- 61. Remit payment (certified cheque, bank draft) for the proposed infrastructure listed below within the public right-of-way to address the requirements of the Business Units. The amount is calculated by the respective Business Unit and is based on 100% of the estimated cost of construction.

The developer is responsible to coordinate the timing of the construction by City forces. The payment is non-refundable.

## Roads

- a. Street lighting upgrading adjacent to the site.
- 62. Remit payment (certified cheque, bank draft) for the proposed infrastructure listed below within the public right-of-way to address the requirements of the Business Units. The amount is calculated by the respective Business Unit and is based on 100% of the estimated cost of construction.

The developer is responsible to coordinate the timing of the construction by City forces. The payment is non-refundable.

## Water Resources

- e. New sanitary test manhole,
- f. Storm sewer redevelopment (\$84 / m frontage),

- g. New storm sewer connection,
- h. New sanitary sewer connection.
- 63. Submit to the Manager of Urban Development two (2) copies of an Erosion and Sediment Control Report prepared by a qualified consultant or certified professional erosion and sediment control (CPESC) in accordance with the City of Calgary *Guidelines for Erosion and Sediment Control*.
- 64. Submit three (3) sets of Development Site Servicing Plan to the Building Grades Supervisor, Engineering Services, for approval from Water Resources, as required by Section 5 (2) of the *Utility Site Servicing Bylaw 33M2005*. The scope and details of the plans are found in both the *Stormwater Management and Design Manual (December 2000)* and the *Design Guidelines for Development Permits and Development Site Servicing Plans (June 2007)*.
- 65. Amend the plans to:

# Water Resources - Water Servicing

- a. Indicate an adequate water meter room adjacent to an exterior wall where the services (100mm and larger) enters each proposed building,
- 66. Submit a letter accepting responsibility for the transportation of garbage containers to and from the permanent storage location(s) and staging / collection location(s) on the scheduled collection day to the satisfaction of the Manager, Urban Development and/or the Director, Waste & Recycling Services.

## **Transportation:**

- 67. As indicated in the development application, the developer/owner/manager shall appoint a traffic demand management (TDM) coordinator to develop strategies for a TDM program that will achieve reductions in motor vehicle use. These strategies should be implemented in the development and management of the site.
- 68. As indicated in the development application, the developer and future site managers shall provide a written commitment to promote and monitor the TDM program to reduce peak hour site-generated vehicle traffic and report on the TDM program to the Director of Transportation Planning annually.
- 69. Amend the plans to include signs advising motorists of the available visitor parking. Signs must be prominently displayed in front of the building and a visitor parking sign placed in front of each visitor parking stall.
  - Provide signage details and include details on site plans.
- 70. Amend the plans to include signs advising motorists of the available commercial parking. Signs must be prominently displayed in front of the building and a commercial parking sign placed in front of each commercial parking stall.
  - Provide signage details and include details on site plans.

- 71. Amend the plans to provide on-site signage to prevent regular traffic (other than garbage and loading vehicles) from entering the 2 St SW directional driveway.
  - Sign to be located on-site.
  - Provide signage details and refer to details on site plans.
  - Sign shall not prohibit all traffic. Garbage and loading vehicles permitted.
- 72. Amend the plans to relocate the lay-by wheel chair ramp to the north end of the lay-by.
- 73. The removable bollards located at the egress of the garbage collection area shall remain in place except for when removal is required for garbage collection and loading vehicles. This will require coordination with a site superintendant.
  - Provide an operational protocol with respect to the temporary removal of the bollards when required for garbage removal and other loading.
- 74. Provide a parkade access protocol.
- 75. Provide further information to ensure that garbage movement activities will not block the drive aisles.

#### PERMANENT CONDITIONS

#### Planning:

- 1. The development shall be completed in its entirety, in accordance with the approved plans and conditions.
- 2. No changes to the approved plans shall take place unless authorized by the Development Authority.
- 3. The necessary Access Easement Agreements for the play area and for pedestrian traffic flow shall be registered on all affected titles prior to the issuance of the development completion permit for any phase of the development. The City of Calgary shall be named a party to the Agreements to secure access in perpetuity. At this time, the Agreements shall be submitted to Development & Building Approvals and approved by the City Solicitor to ensure that the signatories do not amend, terminate or discharge the agreements without the City's consent.
- 4. This approval recognizes three (3) phases on the approved plans which shall be completed in sequence. All the road works, landscaping, surface parking and provisions for garbage collection shown within each phase shall be completed and construction of the subsequent phase shall have commenced and be ongoing prior to the issuance of a Development Completion Permit for the completed phase. Call Development Inspection Services at 268-5491 to request site inspections for the Development Completion Permits.

5. A Development Completion Permit shall be issued for each phase before the use is commenced or the building occupied. A Development Completion Permit is independent from the requirements of Building Permit occupancy. Call Development Inspection Services at 268-5491 to request a site inspection for the Development Completion Permit.

The required subdivision and necessary easements must be registered on all affected parcels prior to the issuance of the development completion permit for any phase of the development to the satisfaction of the Approving Authority.

- 6. All roof top mechanical equipment shall be screened by the building parapet as shown on the approved plans released with permit and shall not be visible from thoroughfares or sidewalks.
- 7. The grades indicated on the Development Permit approved plans must match the grades on the development site servicing plan ("DSSP") for the development site. Prior to the issuance of the Development Completion Permit, the Consulting Engineer must confirm, under seal, that the development was constructed in accordance with the grades submitted on the Development Permit.
- 8. All areas of soft landscaping shall be provided with an underground sprinkler irrigation system as identified on the approved plans.
- 9. Parking and landscaping areas shall be separated by a 150 mm (6 inch) continuous, poured in place, concrete curb, where the height of the curb is measured from the finished hard surface.
- 10. A lighting system to meet a minimum of 10 LUX for uncovered parking areas with limited public access and 22 LUX for shopping areas with uncovered parking areas and 54 LUX for parkades with a uniformity ratio of 4:1 on pavement shall be provided.
- 11. The walls, pillars and ceiling of the underground parkade shall be painted white or a comparable light colour.
- 12. The light fixtures in the parkade shall be positioned over the parking stalls (not the drive aisles).
- 13. All stairwell doors and elevator access areas shall be installed with a transparent panel for visibility.
- 14. Each parking stall, where located next to a sidewalk, shall have a properly anchored **concrete** wheel stop (100 mm in height and 600 mm from the front of the parking stall).
- 15. Handicapped parking stalls shall be located as shown on the approved plans released with this permit.
- 16. The garbage enclosure shall be kept in a good state of repair at all times and the doors shall be kept closed while the enclosures are not actively in use for delivery or removal of refuse.

17. Loading and delivery shall take place in the designated loading stall as shown on the approved plans and shall, at no time, impede the safety of pedestrian movements and use of the parking lot.

## **Urban Development:**

- 18. If during construction of the development, the developer, the owner of the titled parcel, or any of their agents or contractors becomes aware of any contamination,
  - a. the person discovering such contamination shall immediately report the contamination to the appropriate regulatory agency including, but not limited to, Alberta Environment, the Calgary Health Region and The City of Calgary (311).
  - b. on City of Calgary lands or utility corridors, the City's Environmental Assessment & Liabilities division shall be immediately notified (311).
- 19. The developer shall be responsible for the cost of public work and any damage during construction in City road right-of-ways, as required by the Manager, Urban Development. All work performed on public property shall be done in accordance with City standards.
- 20. The developer understands that he is responsible to ensure that approved driveways required for this development must be constructed to the ramp grades shown on plan that have been approved by Roads. Negative sloping of the driveway within the City boulevard is not acceptable to the City. The developer shall be responsible for all costs to remove and reconstruct the entire driveway ramp if actual grades do not match the approved grades.
- 21. The grades indicated on the approved Development Permit (DP) plans must match the grades on the Development Site Servicing Plan (DSSP) for the subject site. Prior to the issuance of the development completion permit (DCP), the developer's Consulting Engineer must confirm under seal that the development was constructed in accordance with the grades submitted on the development permit (DP).
- 22. Execute an Easement Agreement to the satisfaction of the Manager of Urban Development to address common storm surface run-off areas at the plaza level, common sanitary drainage areas in the parkade, garbage container movement from lot 'A' to lot 'B' and garbage collection vehicle access to lot 'B'.
- 23. In accordance with the *Encroachment Policy* adopted by Council on June 24, 1996, and as amended on February 23, 1998, encroachments of retaining walls, planters, entry features, building projections, etc. are not permitted to extend into the City right-of-way. New encroachments that are a result of this development are to be removed at the developer's expense.
- 24. The owner, and those under their control, shall ensure good erosion and sediment control (ESC) housekeeping practices and the timely implementation, inspection and maintenance of all controls and practices specified in the ESC report and/or drawing(s) in accordance with the current edition of the *Guidelines for Erosion and Sediment Control*. The developer, or their representative, shall designate a person to inspect all controls and practices every seven days and within 24 hours of precipitation or snowfall events. Controls and practices shall be adjusted to meet changing site and winter conditions. Notify the Erosion Control Coordinator, Water Resources at 268-2655 of changes to the controls and practices specified in the report and/or drawing(s).

25. Contain storm run-off on site.

## **Transportation:**

26. The necessary Access Easement Agreements for the shared access, loading, parking arrangements etc. shall be registered on all affected titles prior to the issuance of the development completion permit for any phase of the development. The City of Calgary shall be named a party to the Agreements to secure vehicular access in perpetuity. At this time, the Agreements shall be submitted to Transportation Planning and approved by the City Solicitor to ensure that the signatories do not amend, terminate or discharge the agreements without the City's consent.

#### PLANNING COMMISSION DECISION:

That Calgary Planning Commission **REFERRED** the item back to Administration to review the following with the applicant;

- a) incorporate street fronting at grade commercial or townhouse uses on 2 Street, other than garage doors.
- b) incorporate a softer transition between the parkade podium and the sidewalk in the required setback areas,
- c) consider community amenities at the centre of the project where the surface parking is,
- d) ensure the architects name is on the plans,

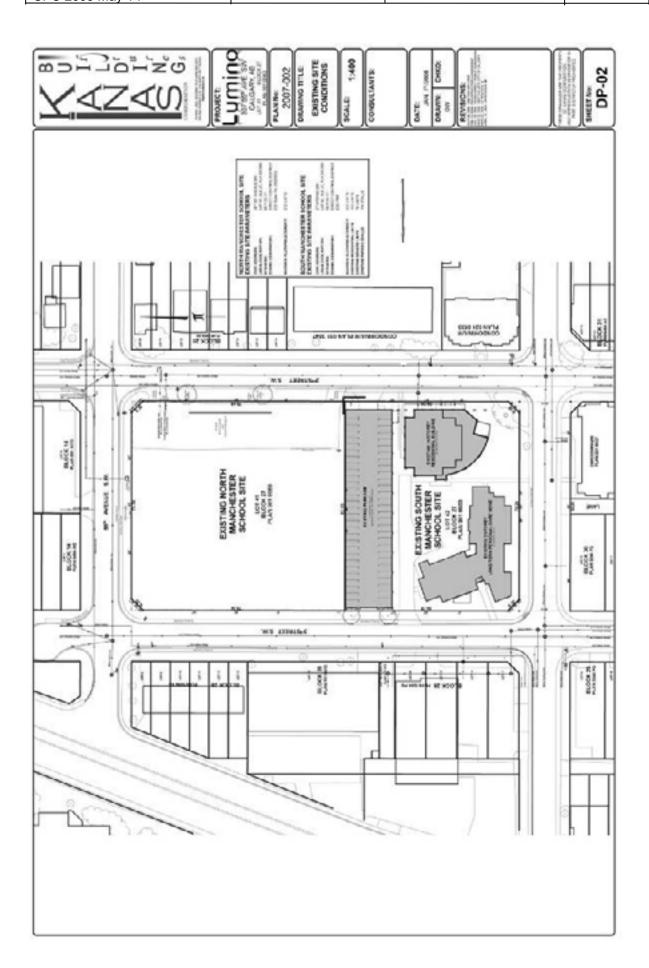
and to return to the Calgary Planning Commission in four weeks.

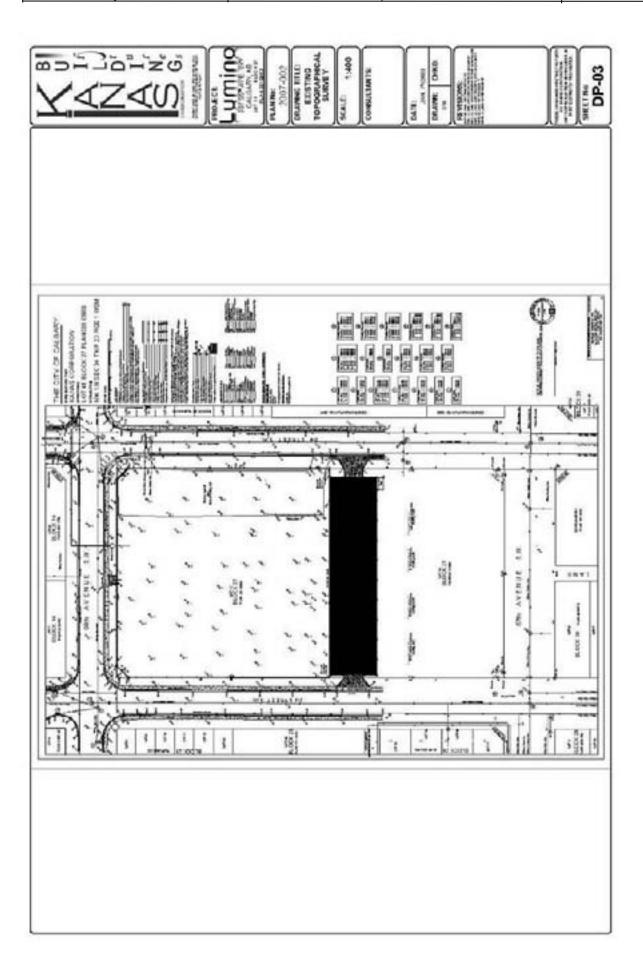
Moved by: B. Barrington Carried 9-0

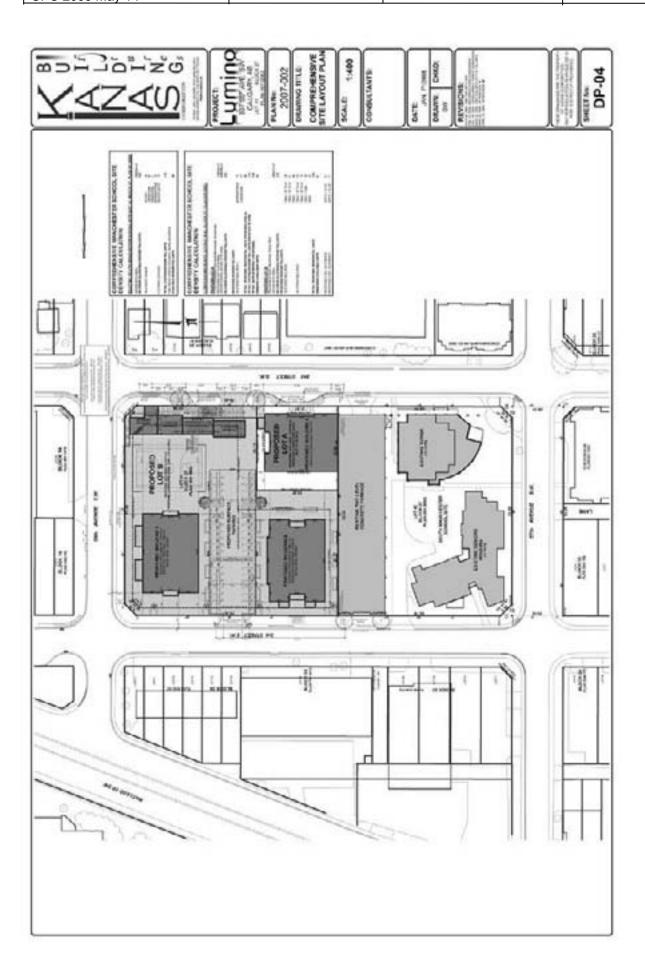


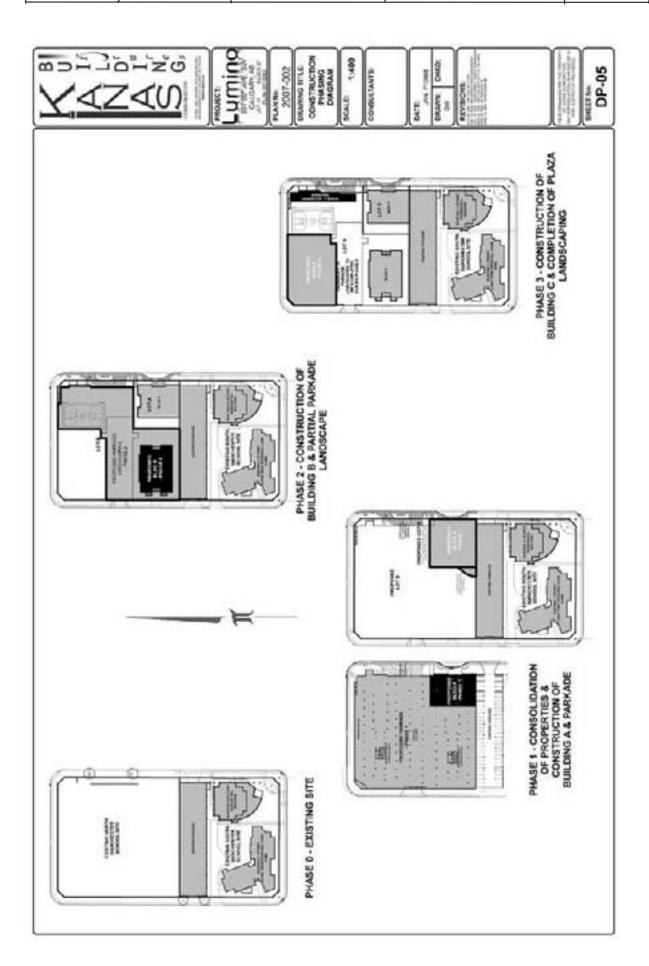


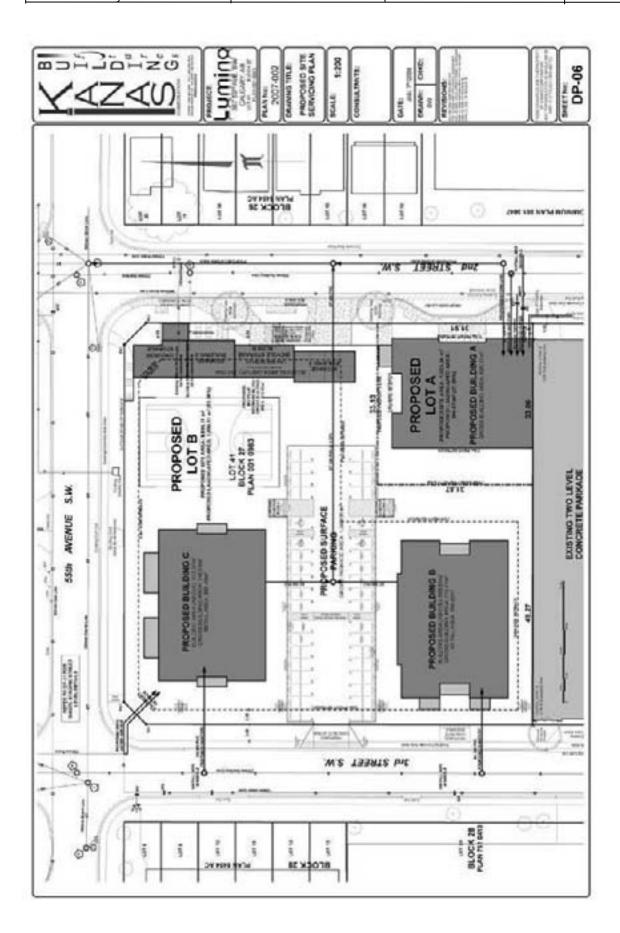


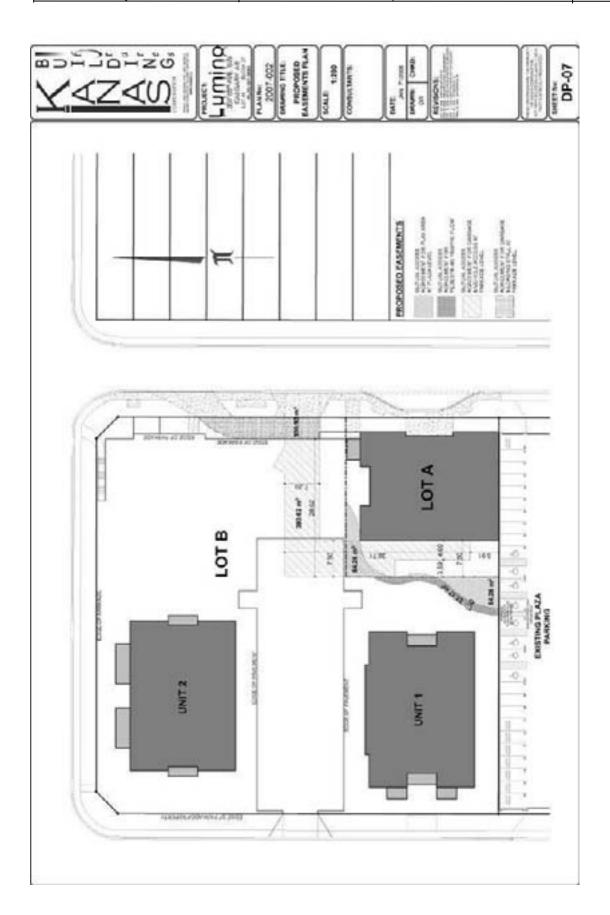


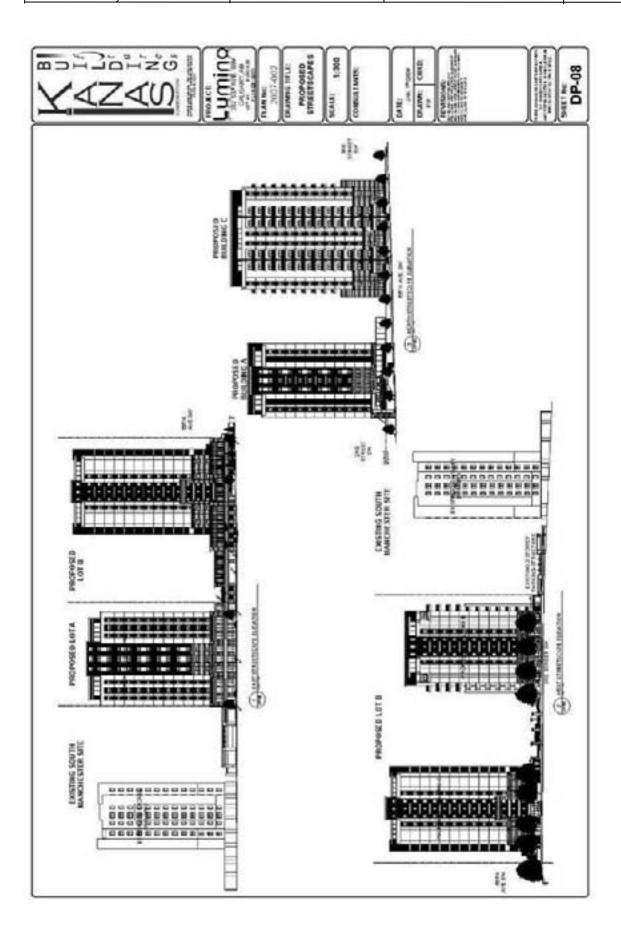


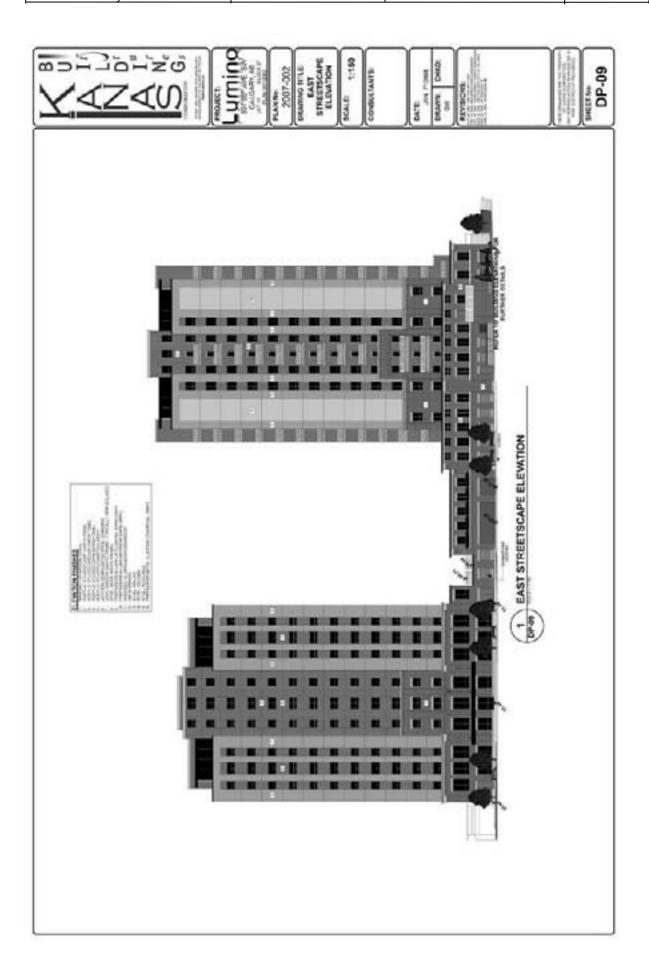


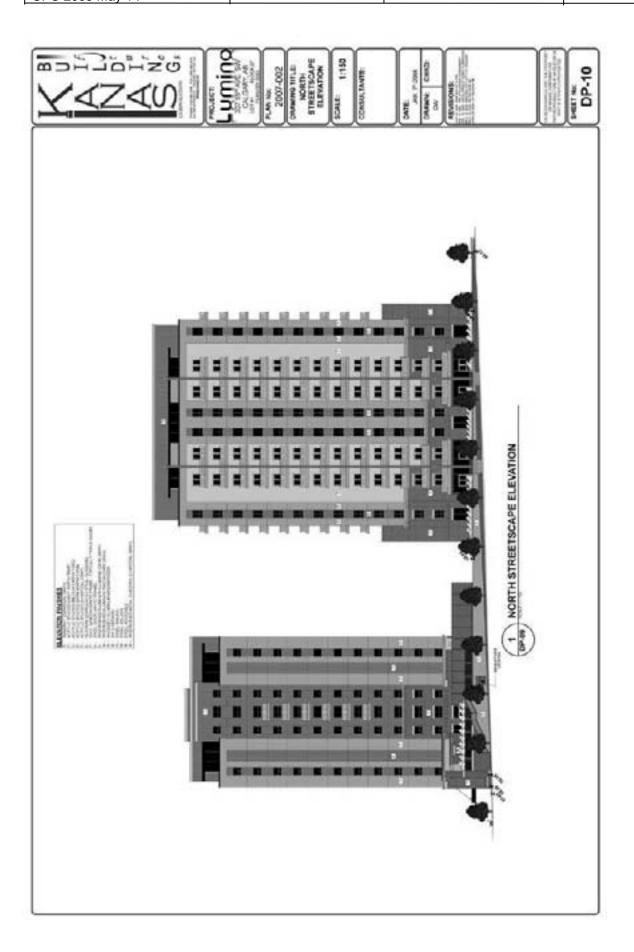


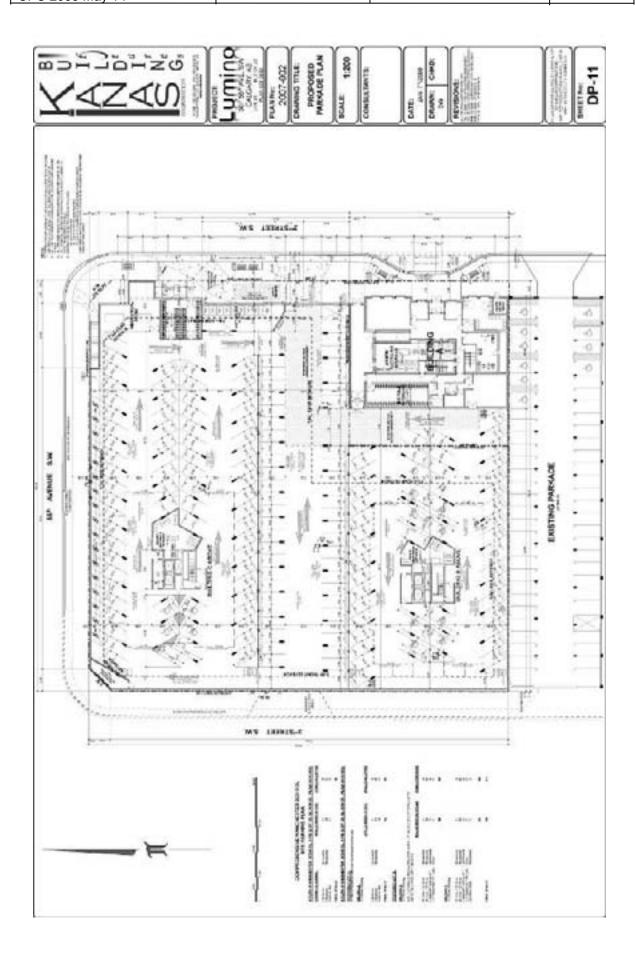


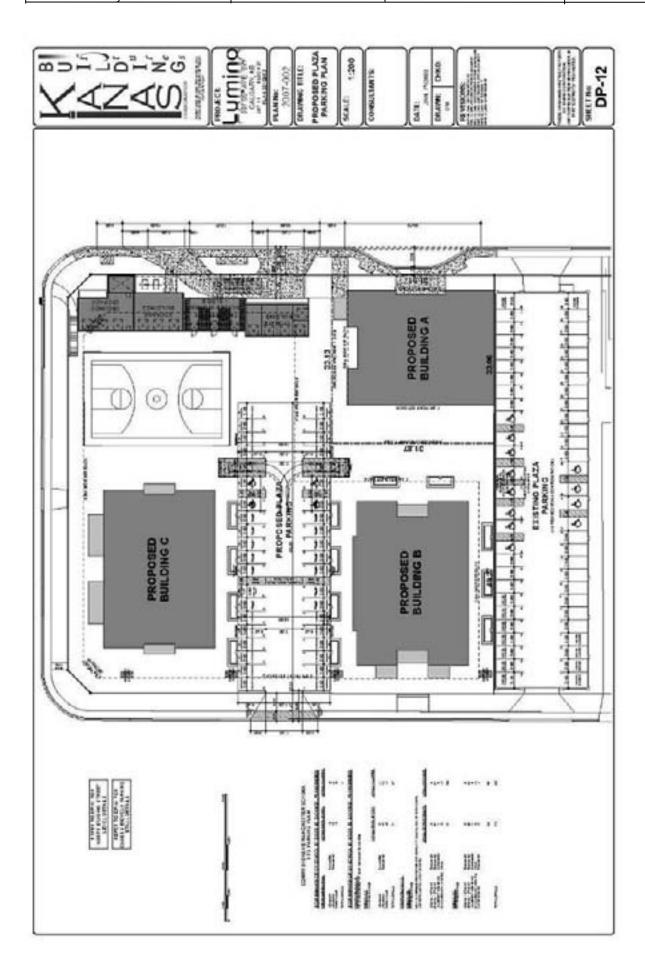


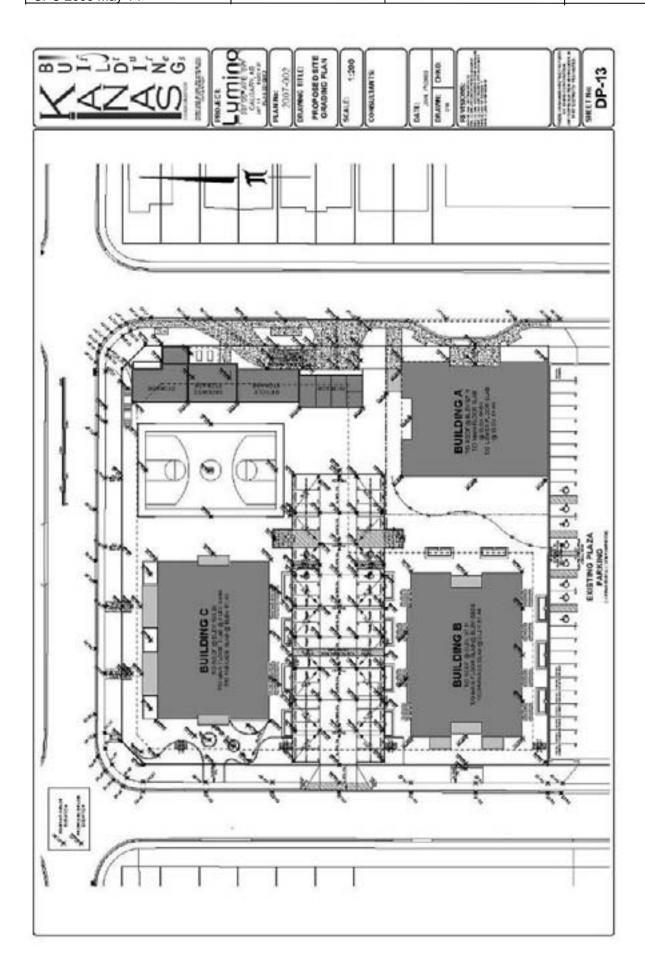


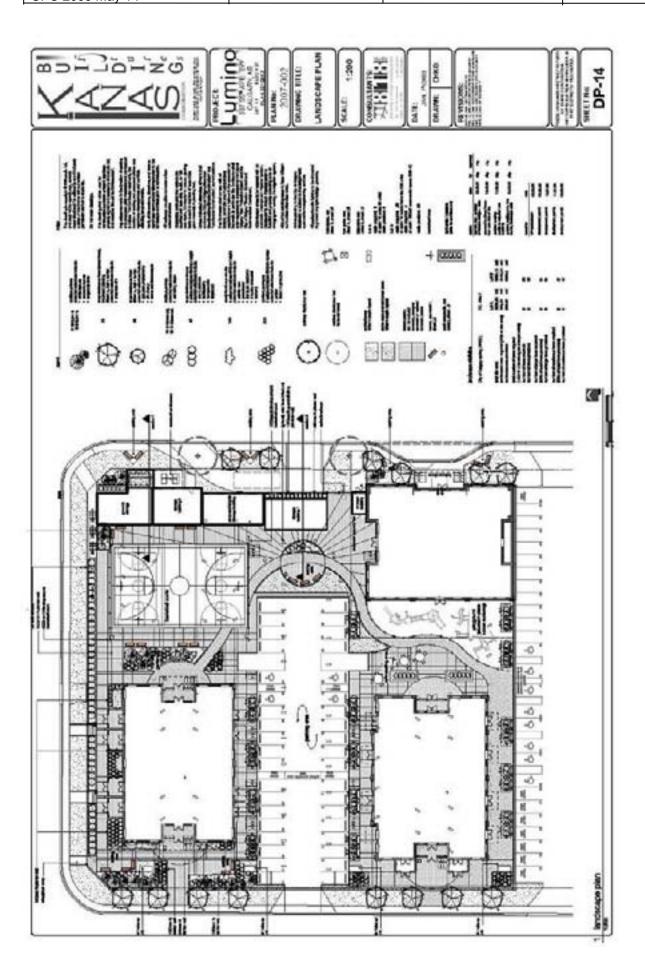


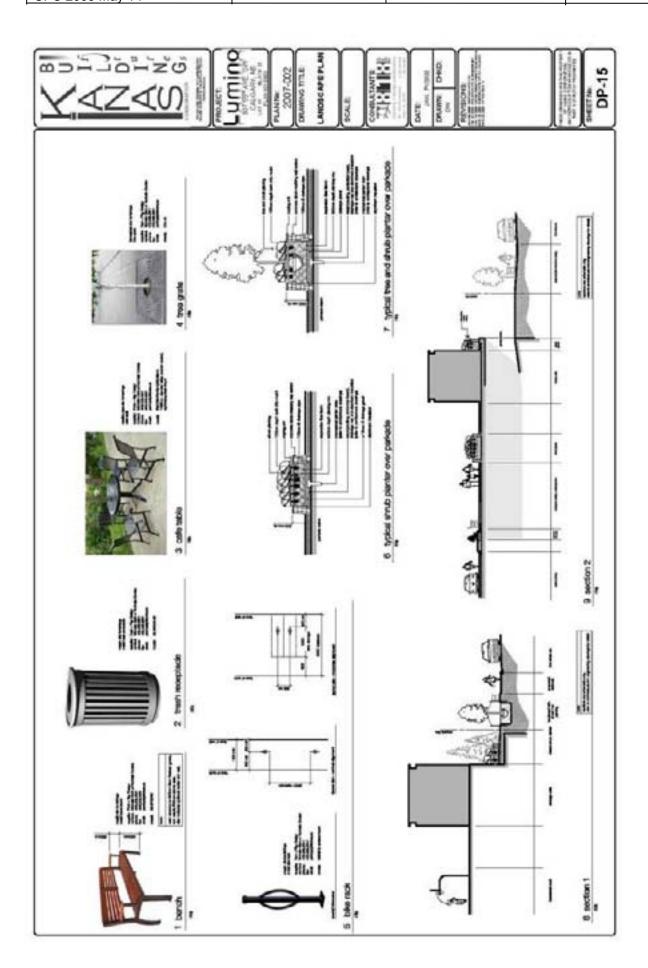


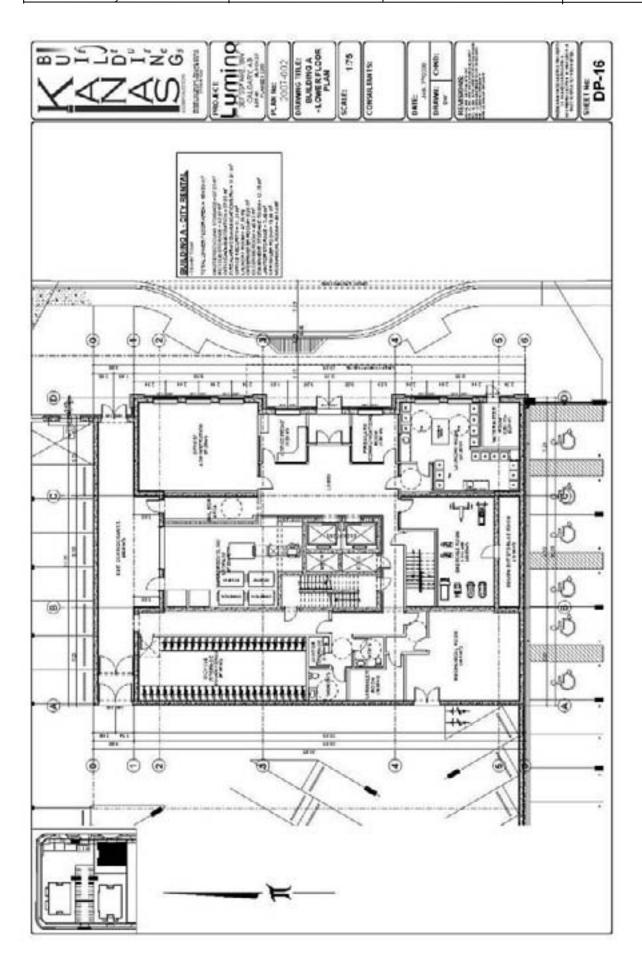


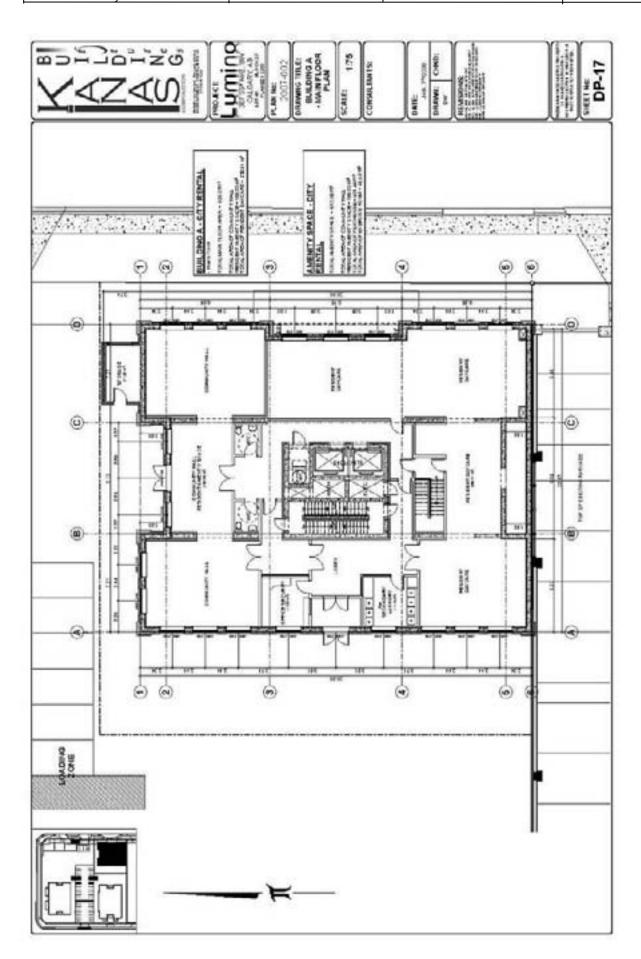


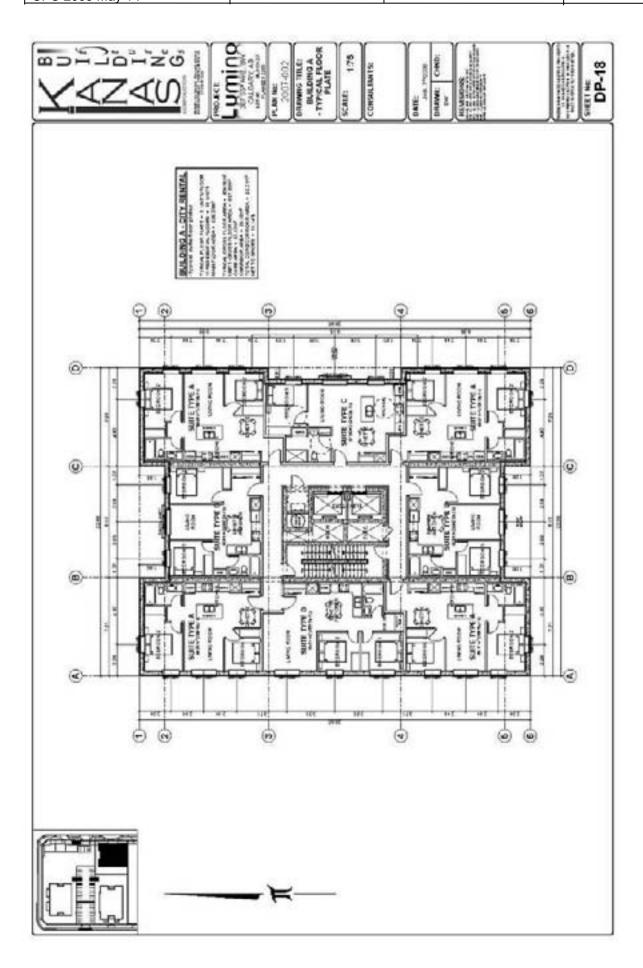


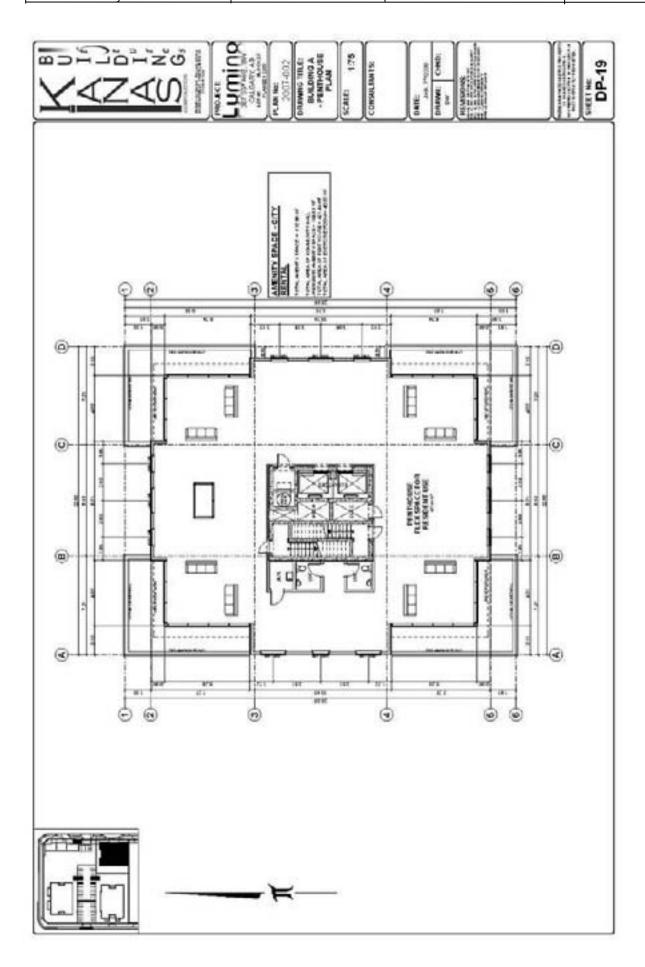


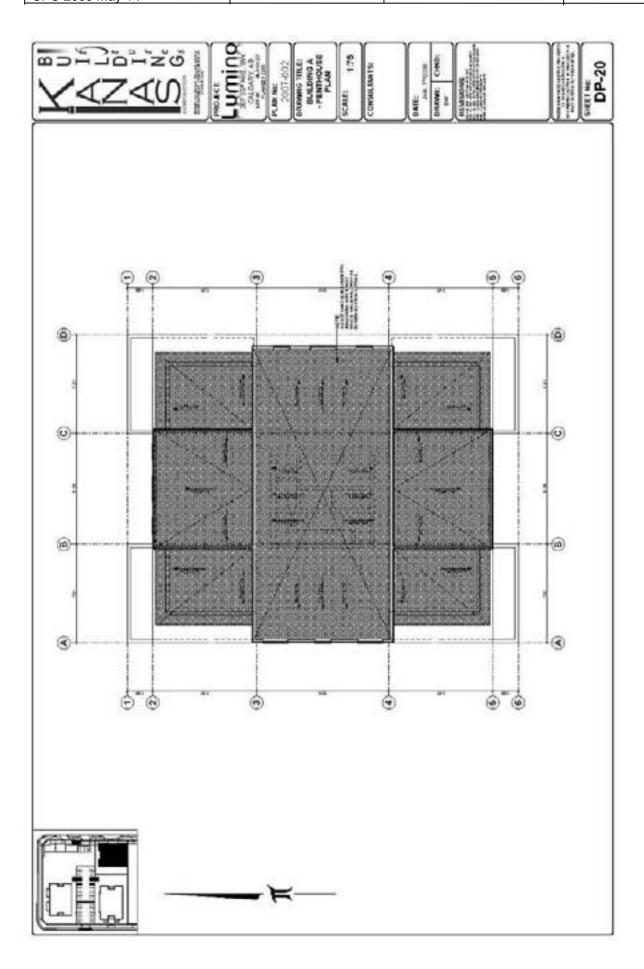


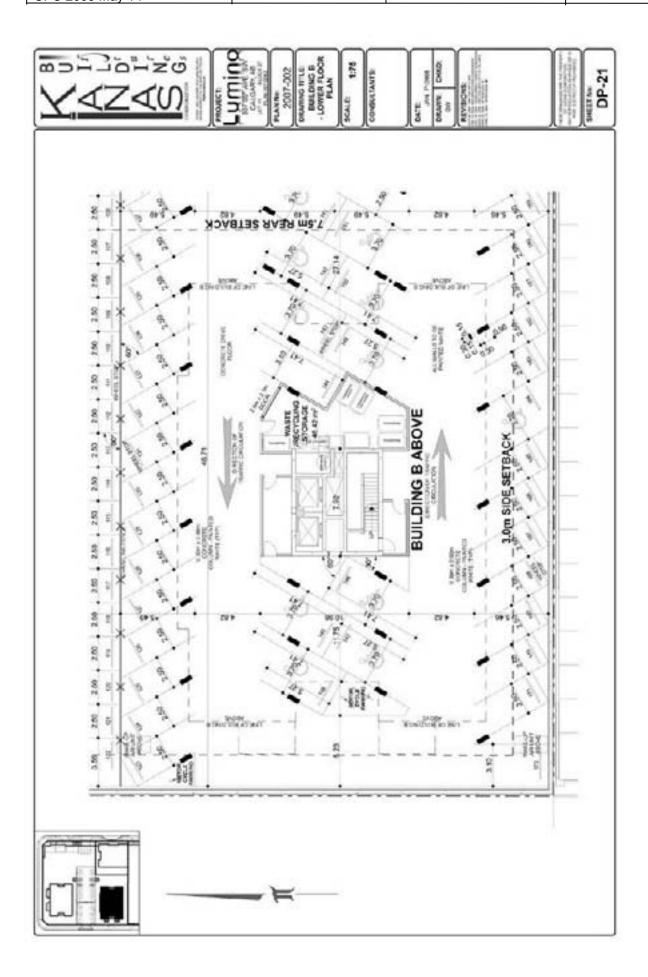


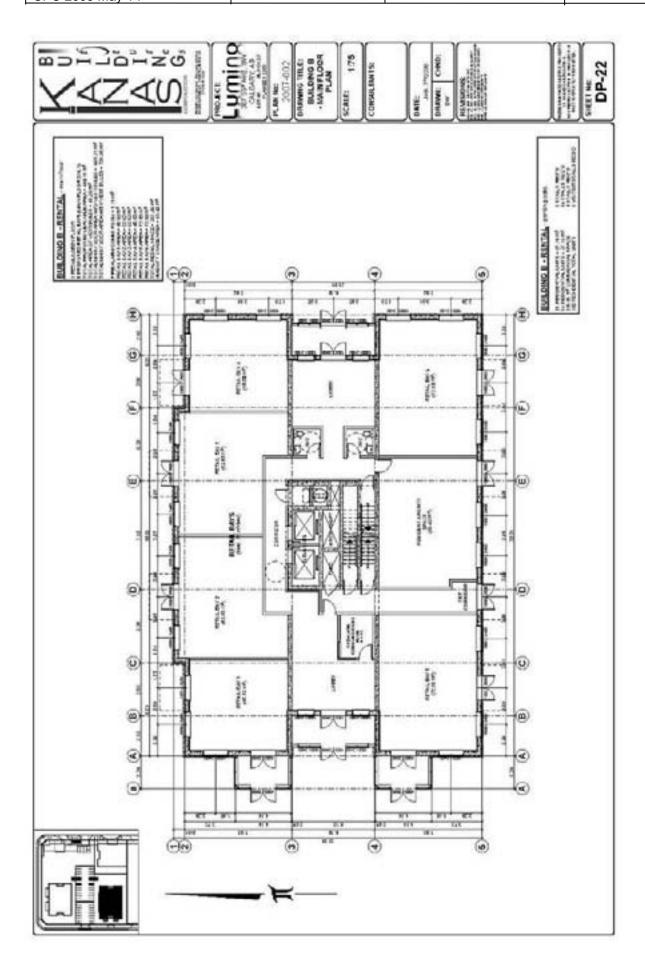


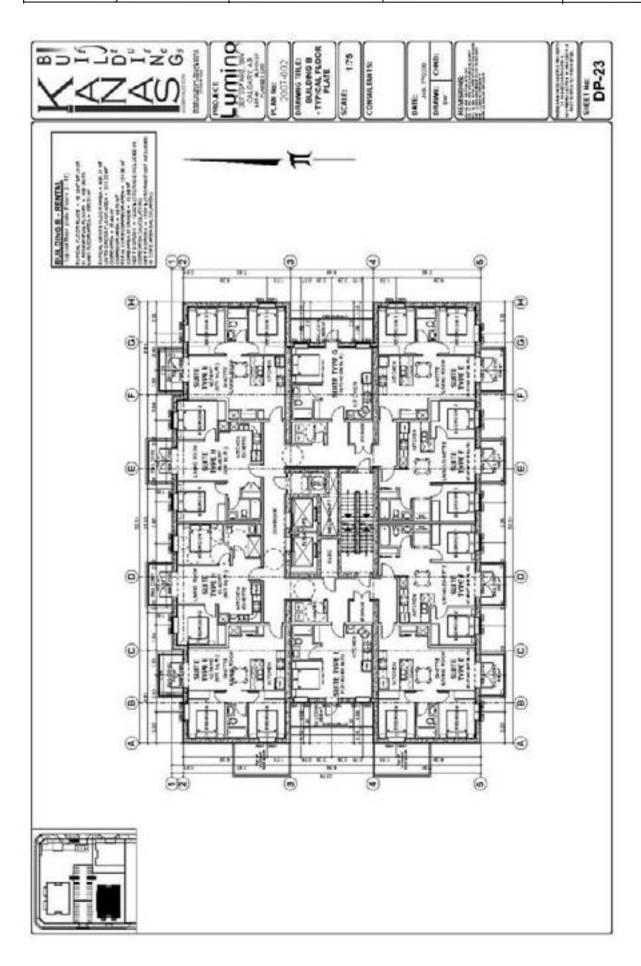


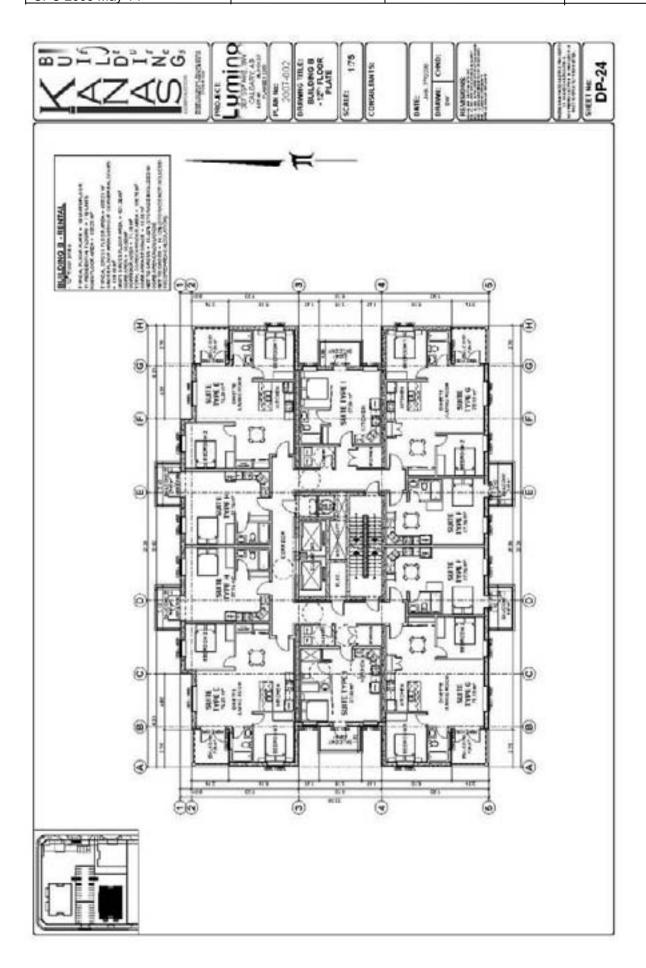


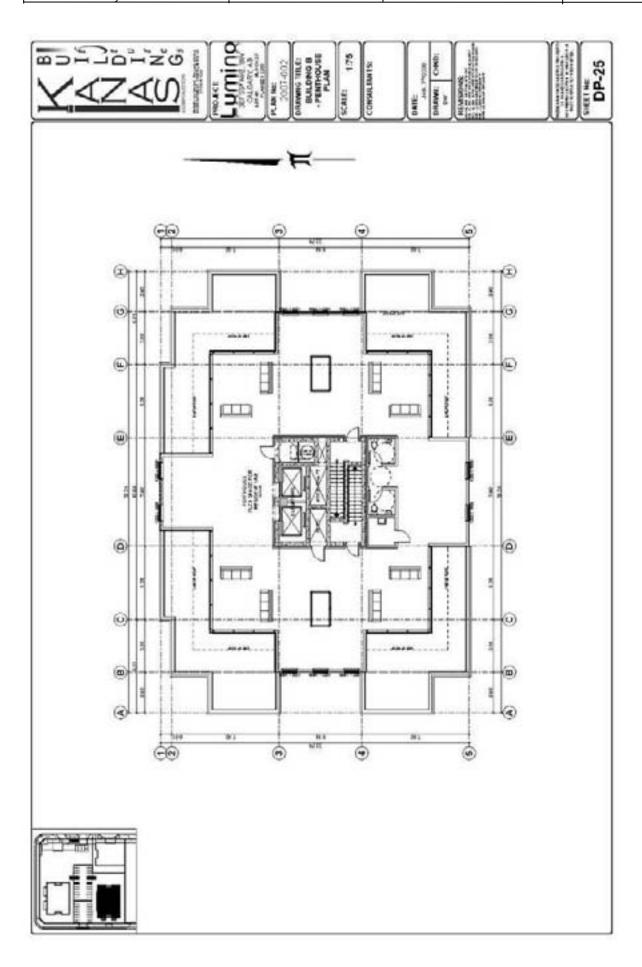


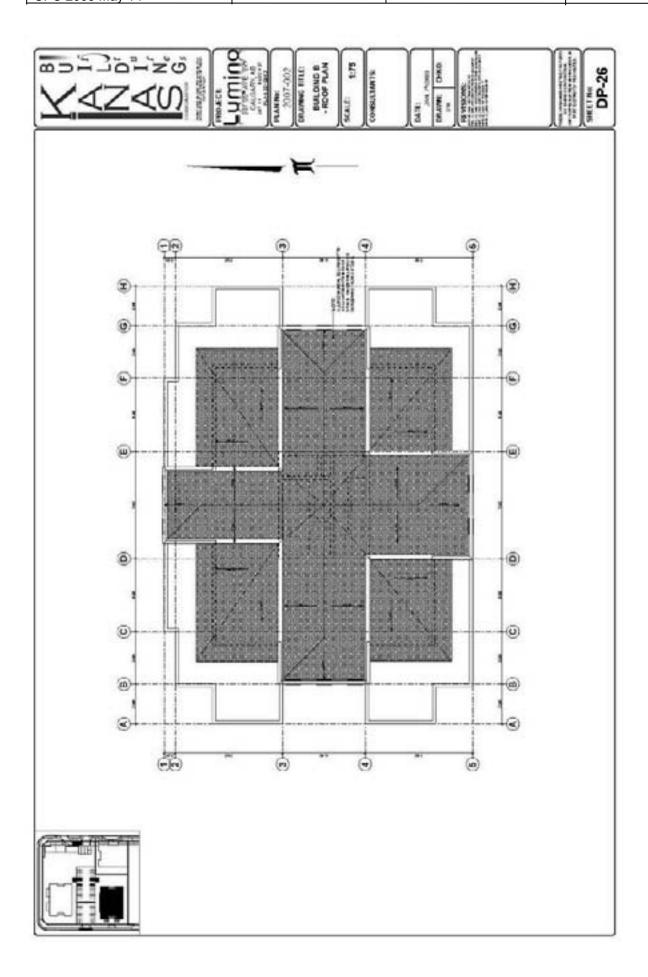


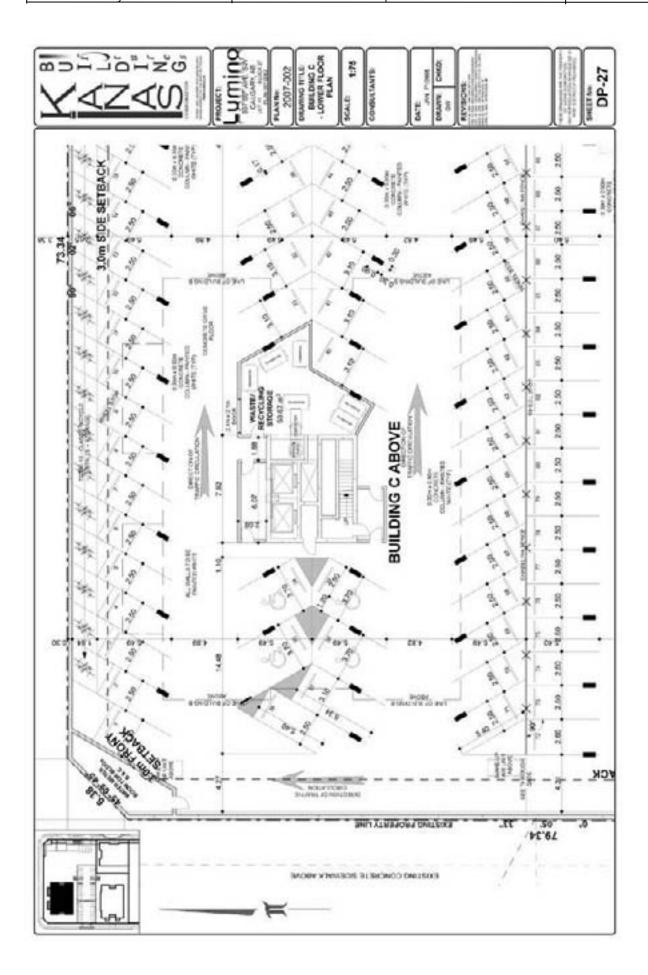


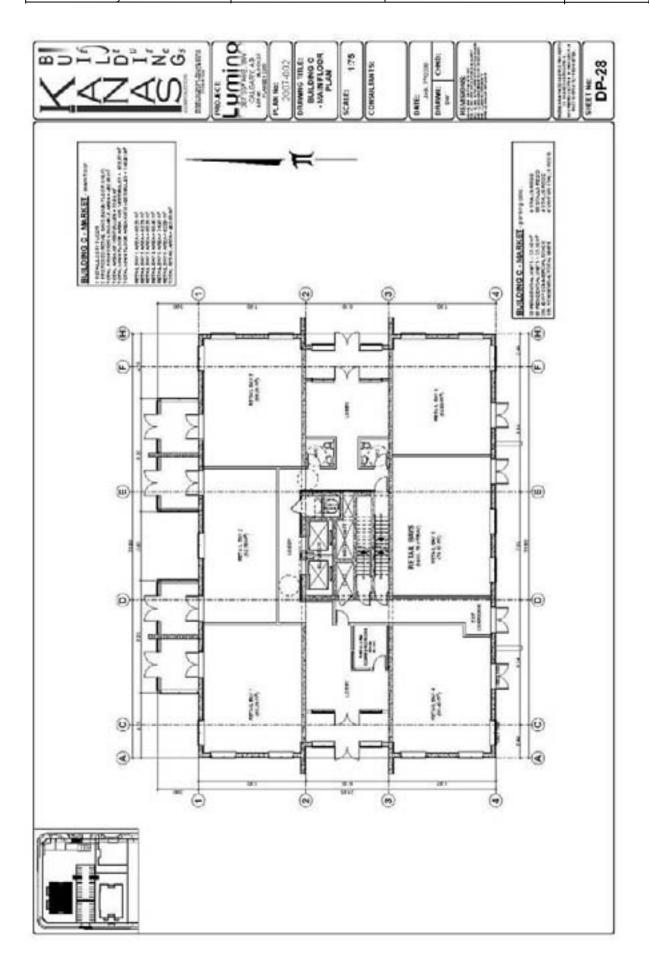


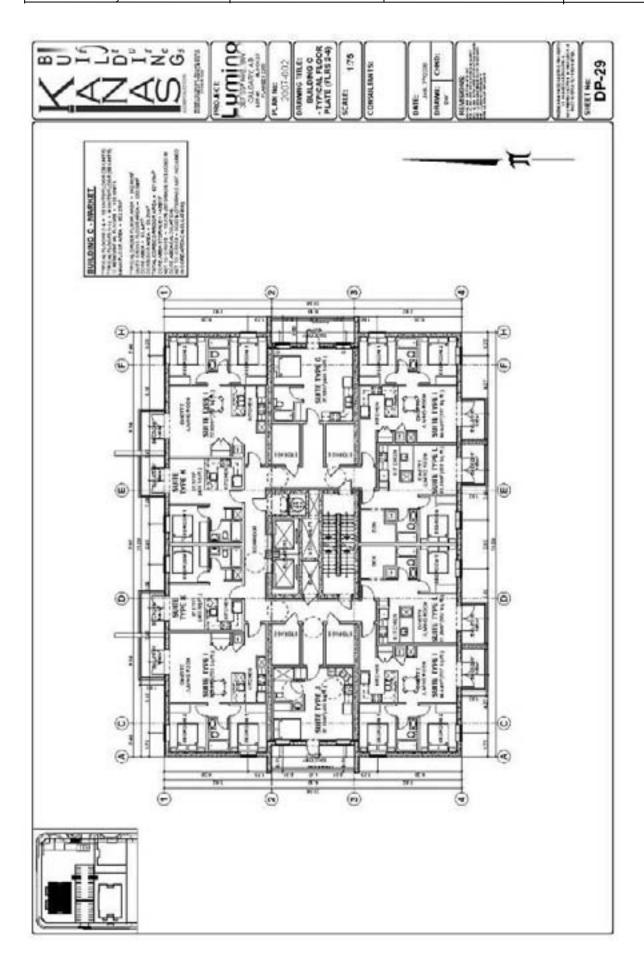


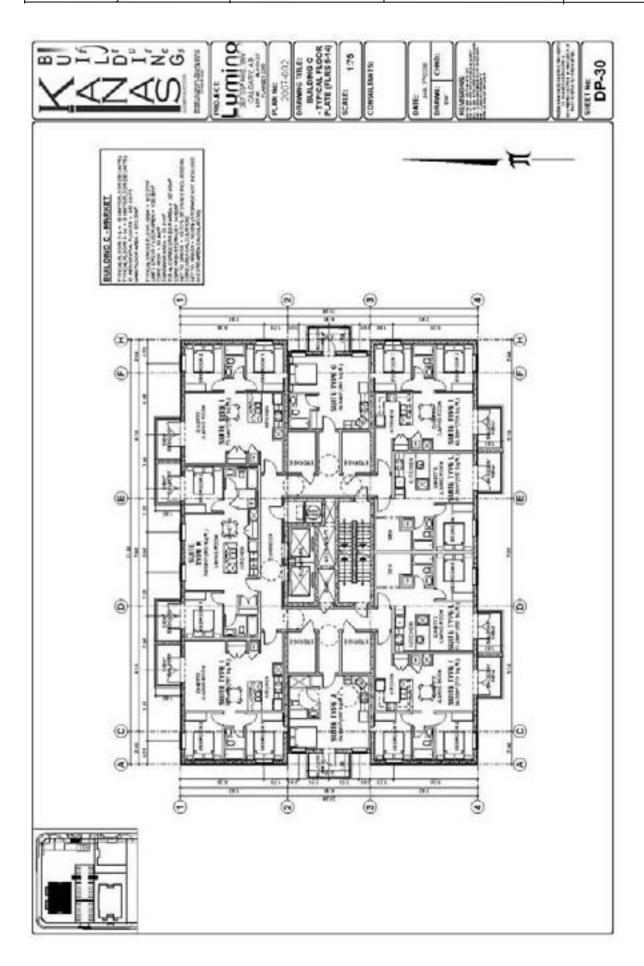


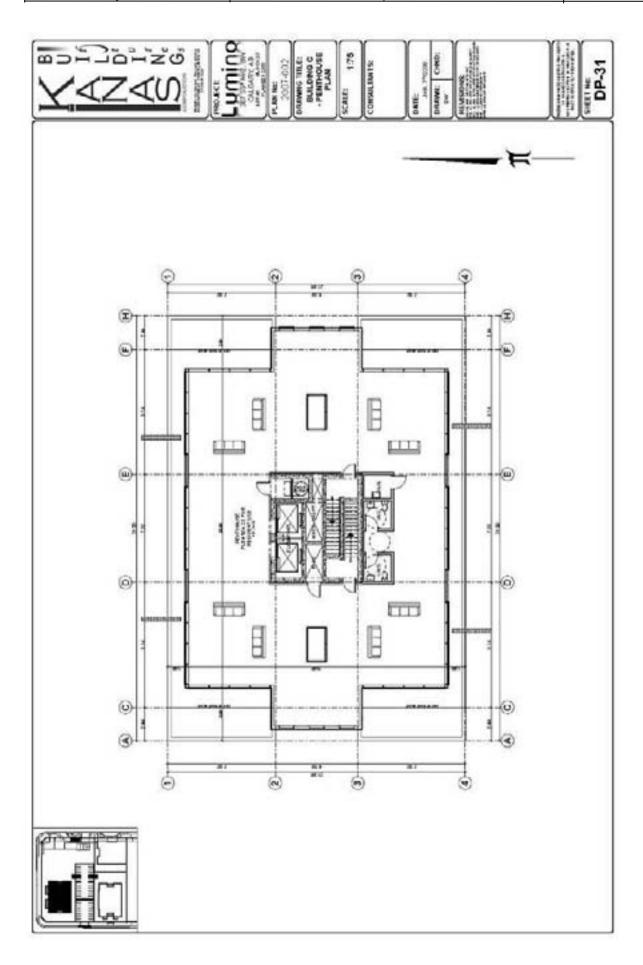


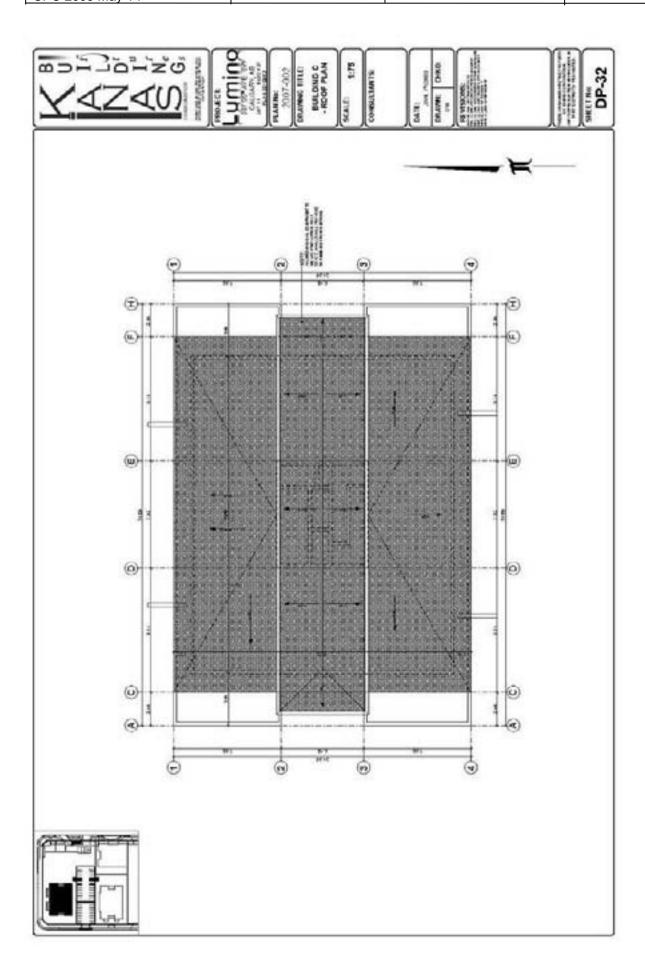


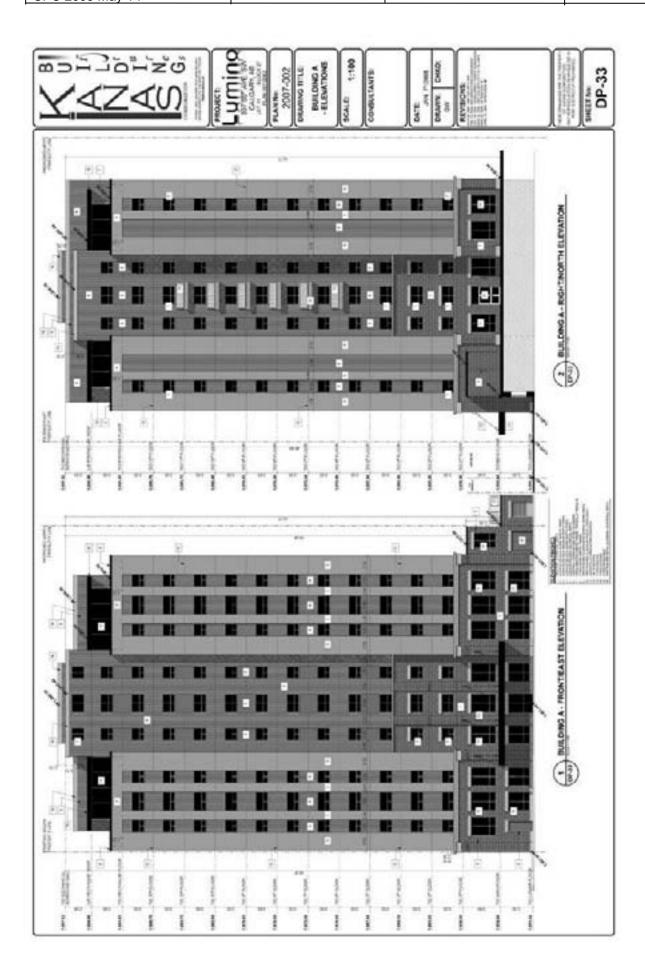


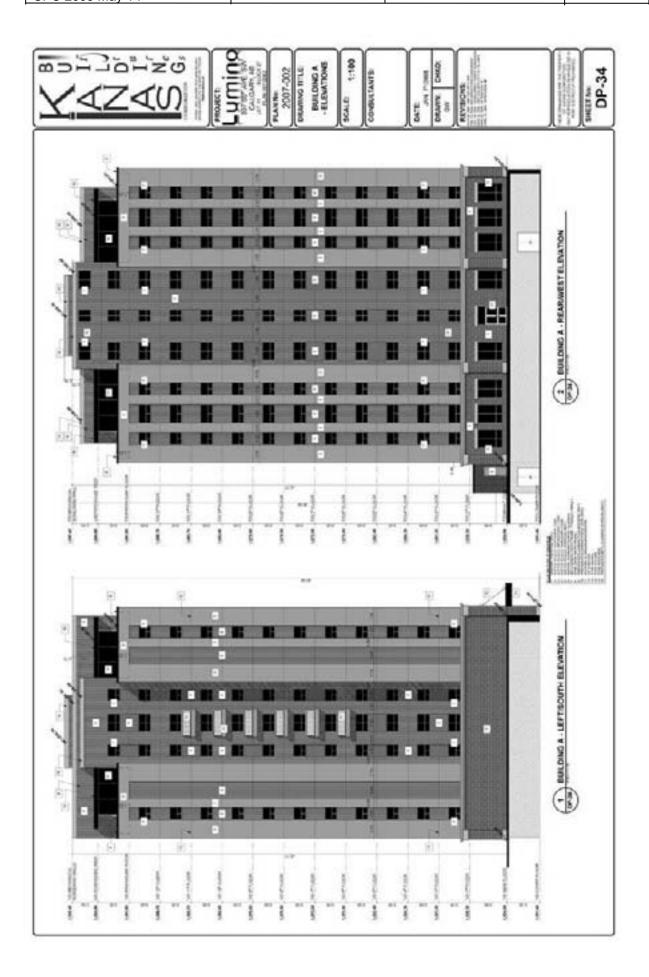


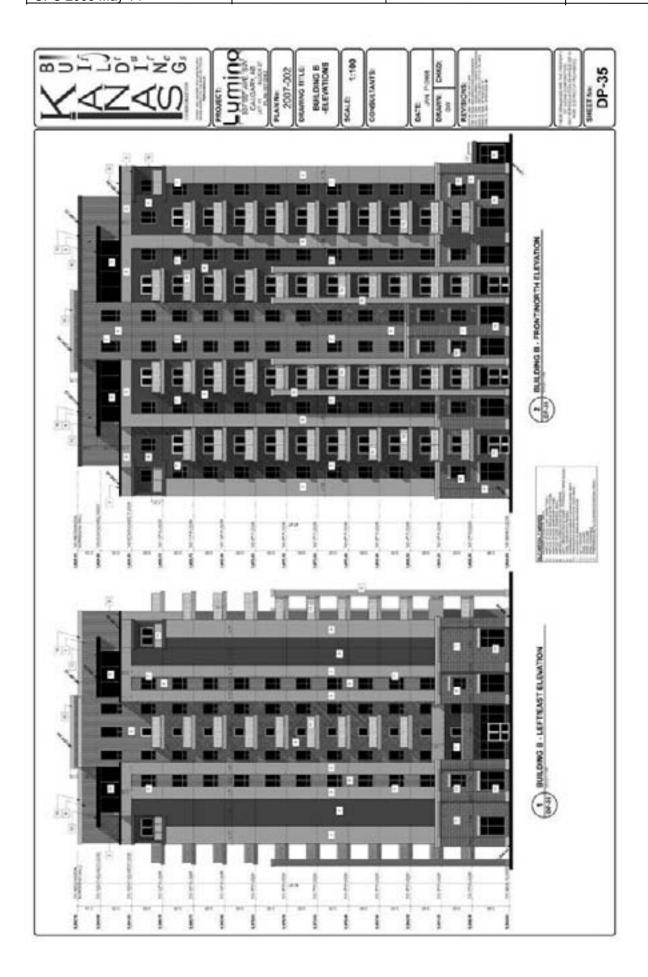


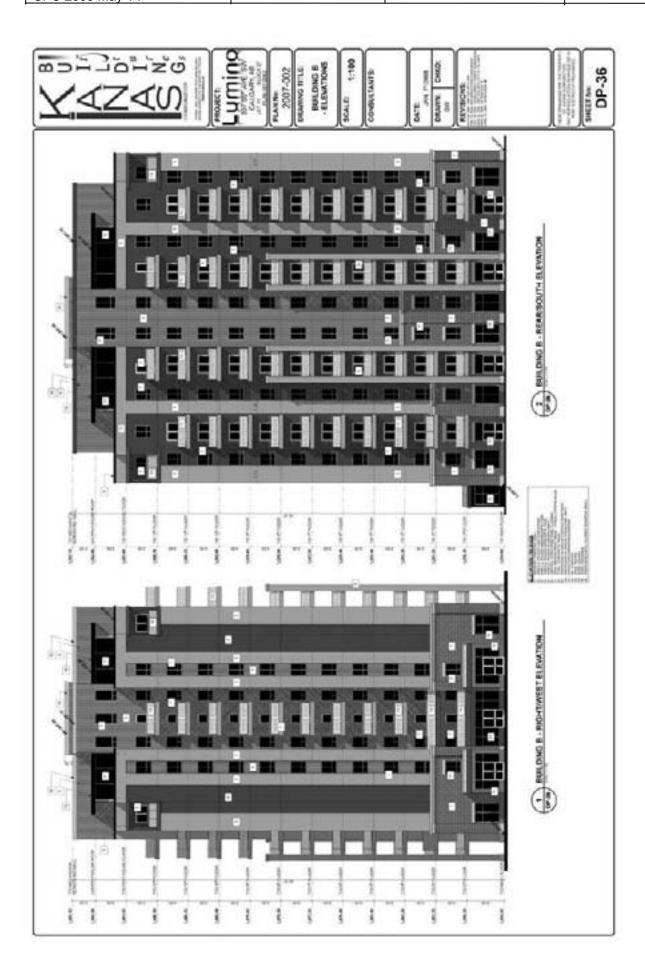


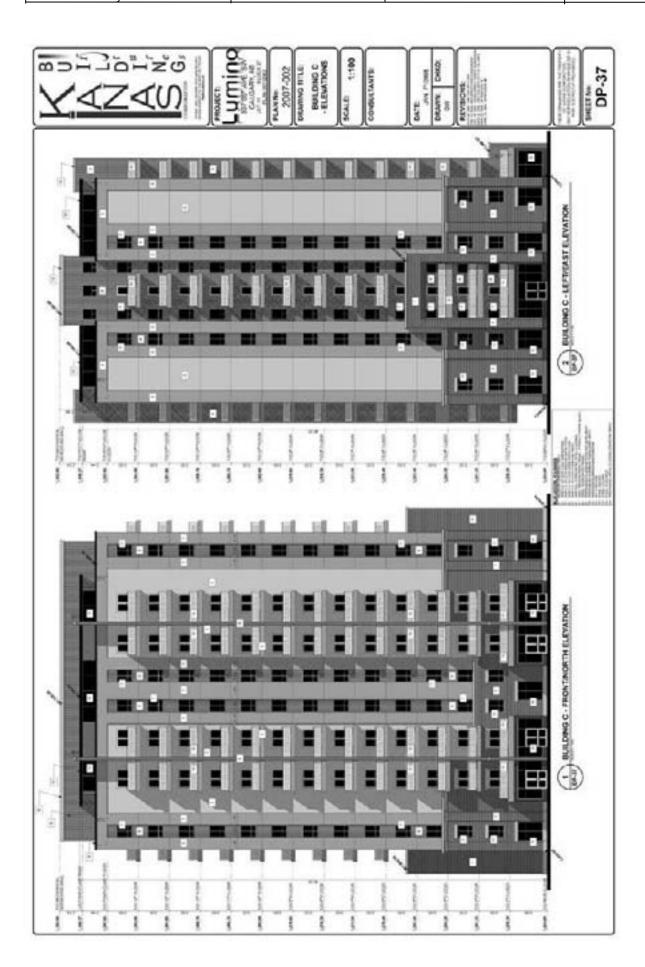


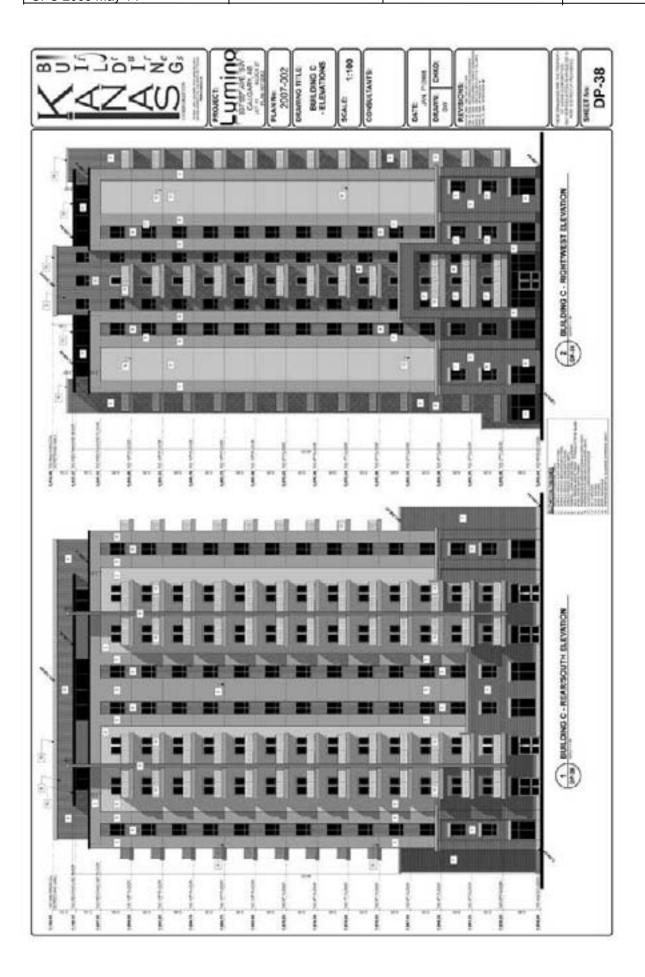


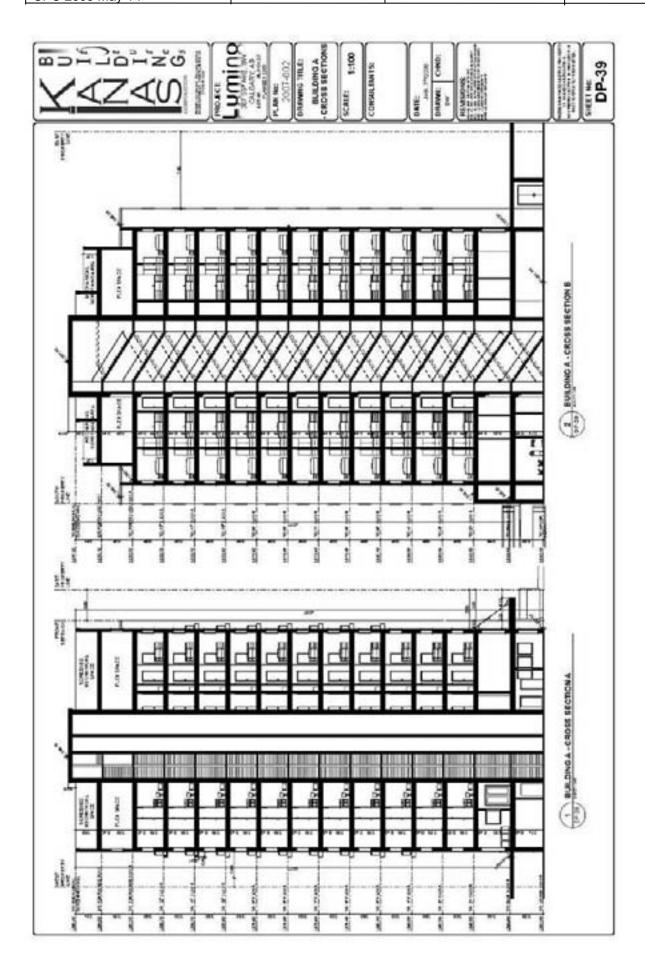


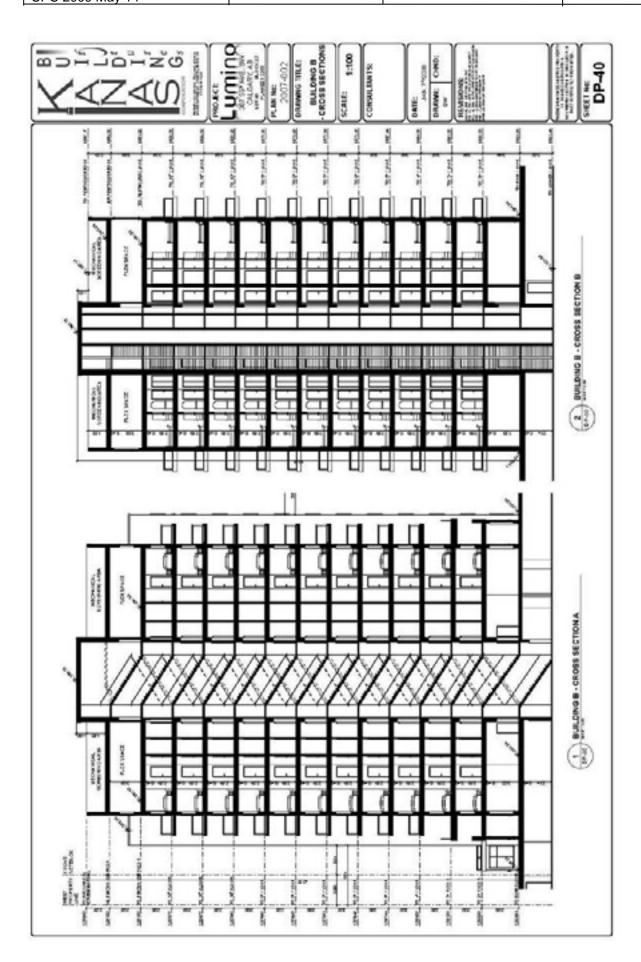


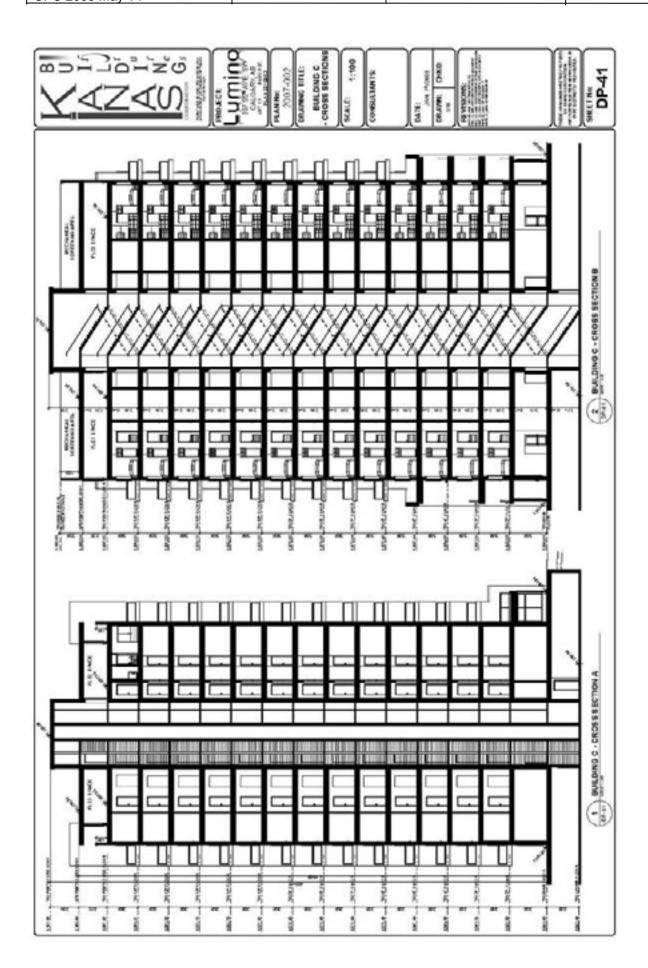


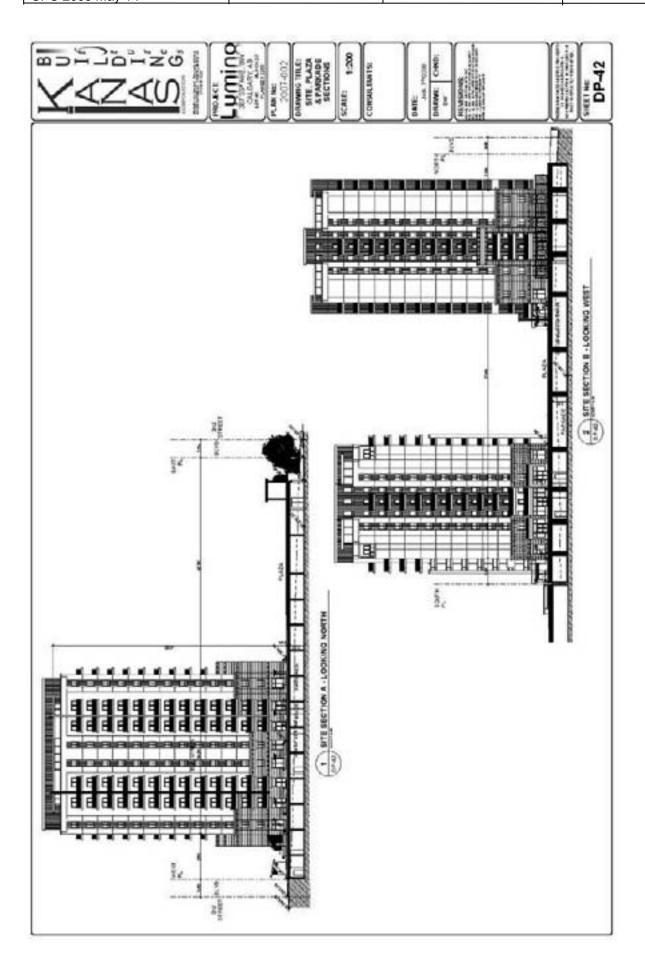


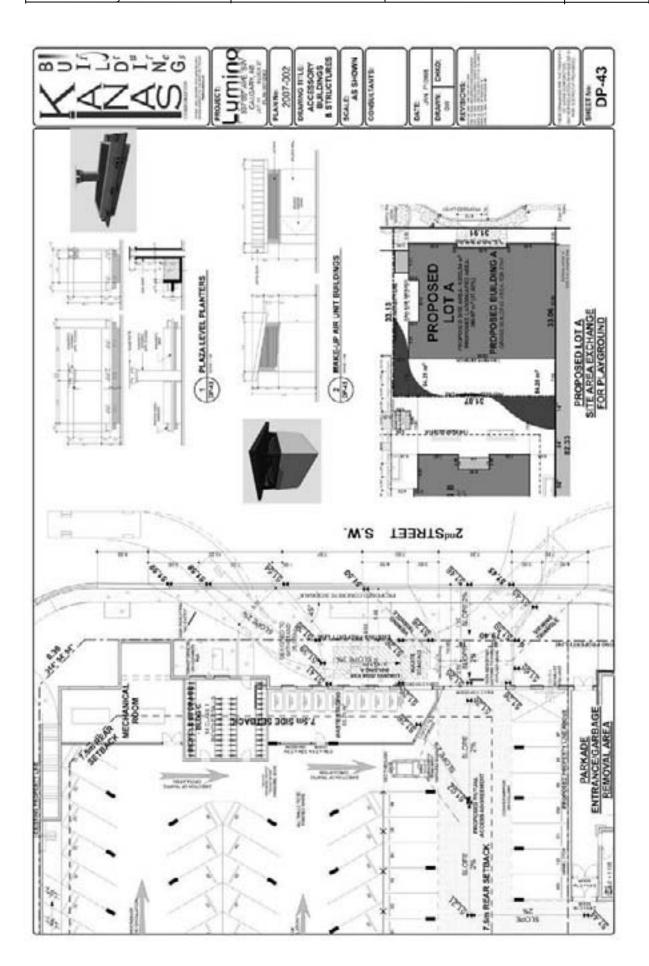


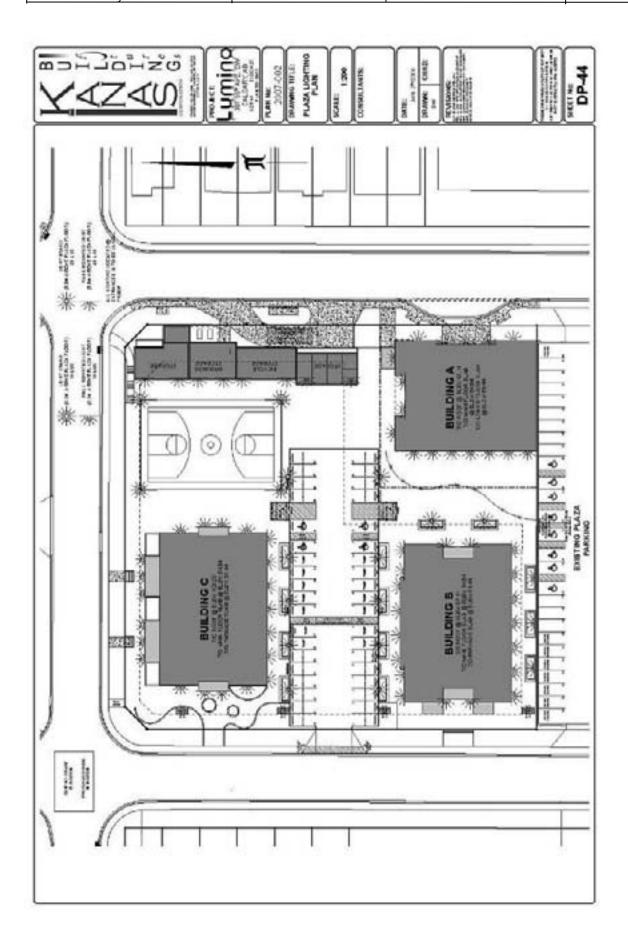


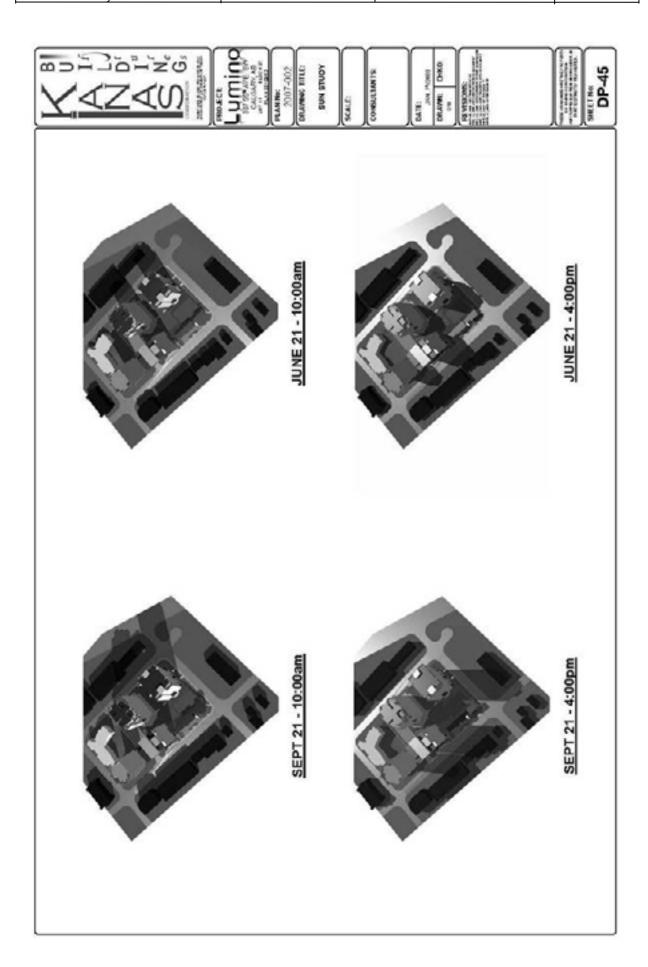


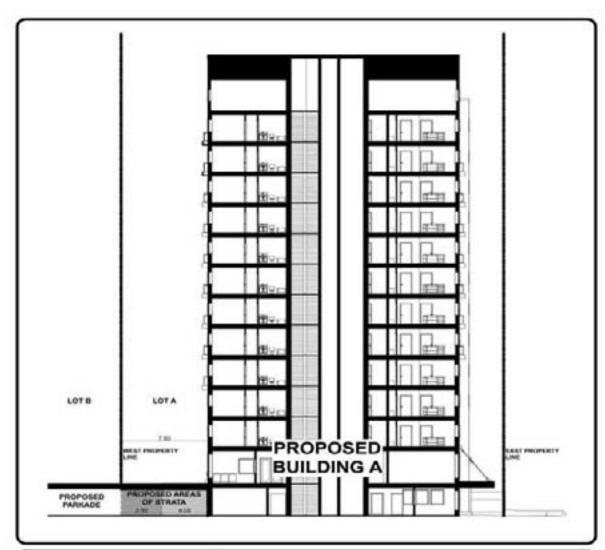












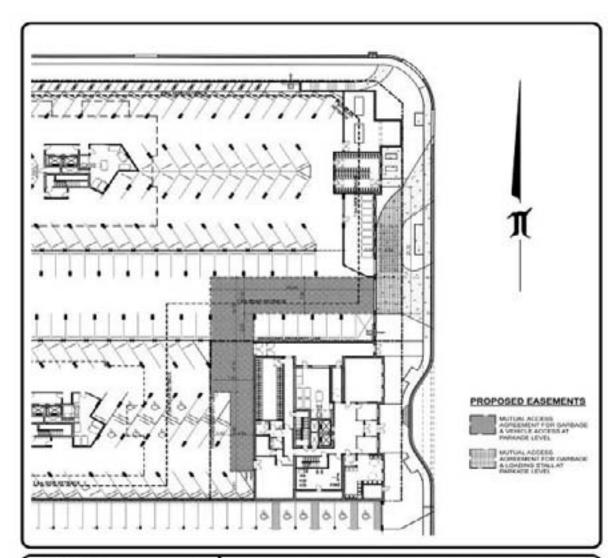


# SECTION THROUGH PROPOSED STRATA

LOT 41 BLOCK 27 PLAN 001 0983

307 55th AVE. SW CALGARY, AB

SCALE: 1:250 DATE: April 15th, 2009





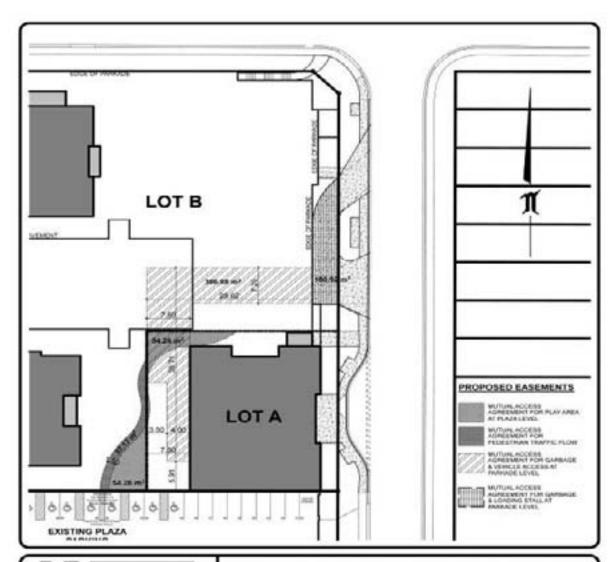
# PROPOSED MUTUAL ACCESS AGREEMENT AT PARKADE LEVEL

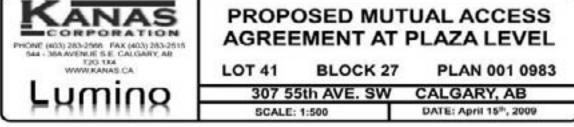
Page 2

LOT 41 BLOCK 27 PLAN 001 0983

307 55th AVE. SW CALGARY, AB

SCALE: 1:500 DATE: April 15th, 2009





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Amendment # LOC2002-0101 Bylaw # 28Z2003 Council Approval: March 19 2003

# SCHEDULE B



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# DC DIRECT CONTROL DISTRICT

Site 1 0.56 hectare ± (1.4 acres ±)

1. Land Use

Permitted Uses:

Home occupations - Class 1

Discretionary Uses:

Accessory buildings
Apartment buildings
Apartment-hotels
Home occupations – Class 2
Parks and playgrounds
Stacked townhouses
Townhouses

In addition, the following uses shall be Discretionary within buildings primarily intended for residential use:

Grocery stores
Offices
Outdoor cafes
Personal service businesses
Restaurants – food service only
Restaurants/drinking establishments
Retail stores

# Development Guidelines:

The General Rules for Residential Districts contained in Section 20 of Bylaw 2P80 and the Permitted and Discretionary Use Rules of the RM-7 Residential High Density Multi-Dwelling District shall apply unless otherwise noted below:

# (a) Residential Uses

(i) Front Yard

A minimum depth of 3.0 metres.

- (ii) Side Yard
  - (A) A minimum width of 3.0 metres; and
  - (B) No side yard is required for a parking structure which does not require external maintenance and which is located to the side or rear of the building.

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# (iii) Landscaping and Amenity Space

- (A) Each dwelling unit shall be provided with a private outdoor amenity space in accordance with Section 20(17) of Bylaw 2P80;
- (B) Sideyards shall be designed to function as private outdoor amenity space:
- (C) A minimum of 35 percent of the site area plus all adjoining City boulevards shall be landscaped; and
- (D) All landscaped areas may be at grade or within 3 metres of grade, provided the average elevation of any raised area does not exceed 2 matres.

For the purposes of this Bylaw, "private outdoor amenity space" means an area comprised of on-site common or private outdoor space, designed for passive recreational use.

# (iv) Density

- (A) For sites up to and including 4,000 square metres in area, there shall be a minimum of 148 units per hectare (60 units per acre) and a maximum of 321 units per hectare (130 units per acre); and
- (B) For sites in excess of 4,000 square metres in area, there shall be a minimum of 321 units per hectare (130 units per acre) and a maximum of 395 units per hectare (160 units per acre).

# (v) Unit Size

A maximum of 50 percent of the dwelling units on a site may be 37.16 square metres (400 square feet) in area or less.

# (vi) Parking

- (A) One parking stall per residential unit; and
- (B) Notwithstanding (A) parking stalls are not required for dwelling units that are 37.16 square metres (400 square feet) or less in area.

# (b) Commercial Uses

- The parking requirements for commercial uses, contained in Section 18 of Bylaw 2P80, may be reduced by 50 percent;
- Commercial uses shall be limited to the first storey of a building and each commercial use shall have its own separate entry from that of the residential component of the building;
- (ii) Dwelling units shall not be located below any storey used for commercial use;

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- (iv) The requirements of Section 32 (5) (d) of Bylaw 2P80 shall not apply;
- (v) Each of the following uses shall have a maximum individual gross floor area of 75 square metres: grocery store, office, outdoor cafe, personal service business, restaurant – food service only, restaurant/drinking establishment and retail store; and
- (vi) Commercial uses shall front on a local street.

# Site 2 0.69 hectare ± (1.7 acres ±)

1. Land Use

Permitted Uses:

Home occupations - Class 1

Discretionary Uses:

Accessory buildings
Apartment buildings
Home occupations – Class 2
Parks and playgrounds
Stacked townhouses
Townhouses

In addition, the following uses shall be Discretionary within buildings primarily intended for residential use:

Grocery stores
Offices
Outdoor cafes
Personal service businesses
Restaurants – food service only
Restaurants/drinking establishments
Retail stores

# 2. Development Guidelines:

The General Rules for Residential Districts contained in Section 20 of Bylaw 2P80 and the Permitted and Discretionary Use Rules of the RM-7 Residential High Density Multi-Dwelling District shall apply unless otherwise noted below:

# (a) Residential Uses

(i) Front Yard

A minimum depth of 3.0 metres.

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- (ii) Side Yard
  - (A) A minimum width of 3.0 metres; and
  - (B) No side yard is required for a parking structure which does not require external maintenance and which is located to the side or rear of the building.
- (iii) Landscaping and Amenity Space
  - (A) Each dwelling unit shall be provided with a private outdoor amenity space in accordance with Section 20(17) of Bylaw 2P80;
  - (B) Sideyards shall be designed to function as private outdoor amenity space:
  - A minimum of 35 percent of the site area plus all adjoining City boulevards shall be landscaped; and
  - (D) All landscaped areas may be at grade or within 3 metres of grade, provided the average elevation of any raised area does not exceed 2 metres.

For the purposes of this Bylaw, "private outdoor amenity space" means an area comprised of on-site common or private outdoor space, designed for passive recreational use.

# (iv) Density

- (A) For sites up to and including 4,000 square metres in area, there shall be a minimum of 148 units per hectare (60 units per acre) and a maximum of 321 units per hectare (130 units per acre); and
- (B) For sites in excess of 4,000 square metres in area, there shall be a minimum of 321 units per hectare (130 units per acre) and a maximum of 395 units per hectare (160 units per acre).
- (v) Unit Size

A maximum of 25 percent of the dwelling units on a site may be 37.16 square metres (400 square feet) in area or less.

- (vi) Parking
  - (A) One parking stall per residential unit; and
  - (B) Notwithstanding (A) parking stalls are not required for dwelling units that are 37.16 square metres (400 square feet) or less in area.

# (b) Commercial Uses

 The parking requirements for commercial uses, contained in Section 18 of Bylaw 2P80, may be reduced by 50 percent;

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- Commercial uses shall be limited to the first storey of a building and each commercial use shall have its own separate entry from that of the residential component of the building;
- (ii) Dwelling units shall not be located below any storey used for commercial use:
- (iv) The requirements of Section 32 (5) (d) of Bylaw 2P80 shall not apply;
- (v) Each of the following uses shall have a maximum individual gross floor area of 75 square metres: grocery store, office, outdoor cafe, personal service business, restaurant – food service only, restaurant/drinking establishment and retail store; and
- (vi) Commercial uses shall front on a local street.

# Site 3 0.64 hectare ± (1.6 acres ±)

### 1. Land Use

Permitted Uses:

Home occupations - Class 1

Discretionary Uses:

Accessory buildings
Apartment buildings
Home occupations – Class 2
Stacked townhouses
Townhouses
Uses existing on-site as of the date of passage of this Bylaw

In addition, the following uses shall be Discretionary within buildings primarily intended for residential use:

Grocery stores
Offices
Outdoor cafes
Personal service businesses
Restaurants – food service only
Restaurants/drinking establishments
Retail stores

# Development Guidelines:

The General Rules for Residential Districts contained in Section 20 of Bylaw 2P80 and the Permitted and Discretionary Use Rules of the RM-7 Residential High Density Multi-Dwelling District shall apply unless otherwise noted below:

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# (a) Residential Uses

(i) Front Yard

A minimum depth of 3.0 metres.

- (ii) Side Yard
  - (A) A minimum width of 3.0 metres; and
  - (B) No side yard is required for a parking structure which does not require external maintenance and which is located to the side or rear of the building.
- (iii) Landscaping and Amenity Space
  - (A) Each dwelling unit shall be provided with a private outdoor amenity space in accordance with Section 20(17) of Bylaw 2P80;
  - (B) Sideyards shall be designed to function as private outdoor amenity space;
  - (C) A minimum of 35 percent of the site area plus all adjoining City boulevards shall be landscaped; and
  - (D) All landscaped areas may be at grade or within 3 metres of grade, provided the average elevation of any raised area does not exceed 2 metres.

For the purposes of this Bylaw, "private outdoor amenity space" means an area comprised of on-site common or private outdoor space, designed for passive recreational use.

- (iv) Density
  - (A) For sites up to and including 4,000 square metres in area, there shall be a minimum of 148 units per hectare (60 units per acre) and a maximum of 321 units per hectare (130 units per acre).
  - (B) For sites in excess of 4000 square metres in area, there shall be a minimum of 321 units per hectare (130 units per acre) and a maximum of 395 units per hectare (160 units per acre).
- (v) Unit Size

A maximum of 25 percent of the dwelling units on a site may be 37.16 square metres (400 square feet) in area or less.

- (vi) Parking
  - (A) One parking stall per residential unit; and
  - (B) Notwithstanding (A) parking stalls are not required for dwelling units that are 37.16 square metres (400 square feet) or less in area.

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#### (b) Commercial Uses

- The parking requirements for commercial uses, contained in Section 18 of Bylaw 2P80, may be reduced by 50 percent;
- Parking for commercial uses within a residential building shall have access only from the lane;
- Commercial uses shall be limited to the first storey of a building and each commercial use shall have its own separate entry from that of the residential component of the building;
- (iv) Dwelling units shall not be located below any storey used for a commercial use:
- (v) The requirements of Section 32 (5) (d) of Bylaw 2P80 shall not apply;
- (vi) Each of the following uses shall have a maximum individual gross floor area of 75 square metres: grocery store, office, outdoor cafe, personal service business, restaurant – food service only, restaurant/drinking establishment and retail store; and
- (vii) Commercial uses shall front on a local street.

# Site 4 0.77 hectare ± (1.9 acres ±)

# 1. Land Use

# Permitted Uses:

Home occupations - Class 1

#### Discretionary Uses:

Accessory buildings
Grocery stores
Home occupations - Class 2
Live-work units
Offices
Outdoor cafes
Personal service businesses
Restaurants - food service only
Restaurants/drinking establishments
Retail stores

Uses existing on-site as of the date of passage of this Bylaw

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For the purpose of this Bylaw, "live-work units" means the use of a dwelling unit by the resident for work purposes which may include, but is not limited to, offices, personal service businesses, retailing of goods produced on-site, craft production, or other similar small scale production activities, excluding any automotive related uses.

# 2. Development Guidelines:

The General Rules for Commercial Districts contained in Section 33 of Bylaw 2P80 and the Permitted and Discretionary Use Rules of the C-1A Local Commercial District shall apply unless otherwise noted below:

#### (a) Floor Area

Each of the following uses shall have a maximum individual gross floor area of 75 square metres: grocery store, outdoor cafe, personal service business, restaurant – food service only, restaurant/drinking establishment and retail store.

#### (b) Parking

The parking requirements for commercial uses contained in Section18 of Bylaw 2P80 may be reduced by 50 percent.

# (c) Live-Work Units

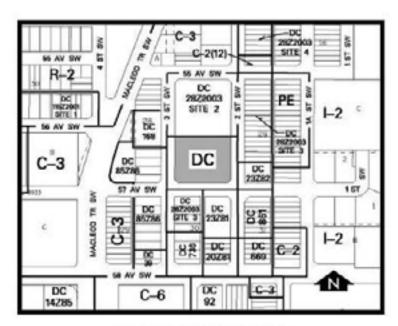
- Dwelling units shall have a common entrance with any work component of the unit;
- The work component shall only be located on the first storey and shall not exceed 50 percent of the total floor area;
- (iii) The resident shall be the operator of the live-work unit;
- A minimum of two on-site parking stalls shall be provided for each live-work unit:
- Signage shall be non-illuminated and should be limited in size, design and location and is to be compatible with the residential neighbourhood;
- Accessory buildings may be allowed but only to serve the residential uses on the site;
- (vii) There shall be no outside storage of materials, goods or equipment on, or immediately adjacent to, the site;
- (viii) One non-resident employee or business partner may work on-site; and
- (bx) No use shall create a nuisance by way of electronic interference, dust, noise, odour, smoke, bright light or anything of an offensive or objectionable nature that is detectable to normal sensory perception outside the building containing the live-work unit.

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# Amendment # LOC2003-0069 Bylaw # 71Z2003

Council Approval: 2003 July 21

# SCHEDULE B



DC DIRECT CONTROL DISTRICT

# Land Use

(a) Permitted Uses

Home occupations - Class 1

(b) Discretionary Uses

Accessory buildings
Apartment buildings
Apartment hotels
Assisted living accommodation
Home occupations – Class 2
Parks and playgrounds
Special care facilities
Stacked townhouses
Townhouses

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In addition, the following uses shall be discretionary within buildings primarily intended for residential use:

Grocery stores
Offices
Outdoor cafes
Personal service businesses
Restaurants – food service only
Restaurant/drinking establishments
Retail stores

For the purpose of this bylaw, assisted living accommodation means dwelling units modified in terms of kitchens and living space as a result of the provision of such facilities as communal dining, social/recreational activities and housekeeping within the complex.

# 2. Development Guidelines.

The General Rules for Residential Districts contained in Section 20 of Bylaw 2P80 and the Permitted and Discretionary Use Rules of the RM-7 Residential High Density Multi-Dwelling District shall apply unless otherwise noted below:

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# (a) Residential Uses

(i) Front Yard

A minimum depth of 3.0 metres.

- (ii) Side Yard
  - (A) A minimum width of 3.0 metres; and
  - (B) No side yard is required for a parking structure which does not require external maintenance and which is located to the side or rear of the building.
- (iii) Landscaping and Amenity Space
  - (A) Each dwelling unit shall be provided with a private outdoor amenity space in accordance with Section 20(17) of Bylaw 2P80;
  - (B) Sideyards shall be designed to function as private outdoor amenity space;
  - (C) A minimum of 35 percent of the site area plus all adjoining City boulevards shall be landscaped; and
  - (D) All landscaped areas may be at grade or within 3 metres of grade, provided the average elevation of any raised area does not exceed 2 metres.

For the purpose of this Bylaw, "private outdoor amenity space" is defined as an area comprised of on-site common or private outdoor space, designed for passive recreational use.

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# (iv) Density

- (A) For sites up to and including 4,000 square metres in area, there shall be a minimum of 148 units per hectare (60 units per acre) and a maximum of 321 units per hectare (130 units per acre); and
- (B) For sites in excess of 4,000 square metres in area, there shall be a minimum of 321 units per hectare (130 units per acre) and a maximum of 395 units per hectare (160 units per acre).

# (v) Unit Size

A maximum of 50 percent of the dwelling units on a site may be 37.16 square metres (400 square feet) in area or less.

# (vi) Parking

- (A) One parking stall per residential unit; and
- (B) Notwithstanding subparagraph (A), parking stalts are not required for dwelling units that are 37.16 square metres (400 square feet) or less in area.

#### (b) Commercial Uses

- The parking requirements for commercial uses, contained in Section 18 of Bylaw 2P80, may be reduced by 60 percent;
- Commercial uses shall be limited to the first storey of a building and each commercial use shall have its own separate entry from that of the residential component of the building;
- (iii) Dwelling units shall not be located below any storey used for commercial use:
- (iv) The requirements of Section 32 (5) (d) of Bylaw 2P80 shall not apply;
- (v) Each of the following uses shall have a maximum individual gross floor area of 75 square metres: grocery store, office, outdoor cafe, personal service business, restaurant – food service only, restaurant/drinking establishment and retail store; and
- (vi) Commercial uses shall front on a local street.

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# Locational Guidelines for Non-Market Housing: Approved by City Council on 2008 July 28

These guidelines are to be used for broad policy guidance and not as strict rules for operators and the development authority. The guidelines are summarised below:

1.	The existing policies of the <i>Calgary Plan</i> that "social housing projects be located in a variety of areas throughout the city and be small scale in nature" be reconfirmed and implemented.
2.	Non-market housing should be allowed wherever market housing is allowed.
3.	Buildings should be of a density, form, design, and external appearance to complement the neighbourhood, and non-market housing units should not be distinguishable from market housing units.
4.	Over-concentration of non-market housing in one area should be discouraged.
5.	Very large single-use projects should be avoided. While the appropriate size and scale of any project will vary with its context, as a general principle, a limit of 150 rent-geared to-income units per project is encouraged, except for seniors' projects;
6.	For smaller projects (up to 40-60 units), up to 100% of units may be rent-geared-to income.
7.	Any project over 40-60 units should be encouraged to have a mix of market and non-market housing, preferably with at least a 1:1 ratio for units over 40 in number, except for seniors' projects.
8.	Locations close to public transit, recreation facilities, parks, schools and commercial nodes should be encouraged for non-market units serving families.
9.	Locations close to public transit, commercial nodes, and appropriate services should be encouraged for non-market housing serving individual adults.

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# CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN (C.P.T.E.D.)

# **ASSESSMENT**

DP#:2009-0040

Location: 307-55 Av. S.W., Calgary AB

Completed by: Gerry Bailey #11095, Crime Prevention Unit

Date Completed: 2009 February 9

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Antonia Brancastina i	Section 2.	Berthell	-	March 19
Crime Prevention I	mayr	ERVIVE	DOUG .	DESIGN.

# MEMORANDUM

DATE: 2009-02-09

TO: David Lupton

FROM: Gerry Bailey, CPS Crime Prevention Unit.

RE: DP#2009-0040

As requested, Gerry Bailey from the Crime Prevention Unit has reviewed application DP#2009-0400, site location 307 – 55 Av. S.W., Calgary, AB., Lumino Project, and reviewed it from the perspective of personal safety and building security. This security audit is based on the crime prevention strategy known as Crime Prevention Through Environmental Design (C.P.T.E.D).

As you are aware, C.P.T.E.D. recognizes the relationship between the built environment and incidences of crime. Please find attached a matrix with recommendations that we hope will provide you with helpful information and guidelines with respect to your project.

We look forward to your reply and comments, if you have any questions or require any further information; please call me at [403-206-8141].

Yours truly.

Mr. Gerry Bailey #11095 Calgary Police Service Crime Prevention Unit

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## CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN (C.P.T.E.D.) ASSESSMENT

REQUESTED BY: David Lupton

POSITION: City of Calgary, Development

and Building Approvals (#8073)

CONDUCTED BY: Mr. Gerry Bailey

Calgary Police Service

LOCATION: 307-55 Av. S.W., Calgary

Applicant	Kanas Corp
Name:	
Contact	Robert SIPKA
Name:	
Company Ph.	403-283-2566
No.:	
Company	544 38A Av.
Address:	S.E.
	Calgary AB
17	T2G1X4

### Statement of Purpose

This survey and the enclosed recommendations are not intended to completely eliminate the crime risk to the subject property. They will however enhance the personal safety and reduce the probability of attacks against the property if property applied and maintained.

Implementation of these recommendations should not be fragmented. Many times the incorporation of one phase depends upon the implementation of other security recommendations and the failure to utilize the systems approach can breach all elements of the system.

# Background/History (i.e. recent incidents)

Of most concern is the underground parking area, parkades are secluded areas where crimes are of committed due to isolation. Crimes involving assaults, theft, vandalism and robbery often occur.

This area is a high traffic area for pedestrian and motor vehicles, especially during the hours between 7:00 AM and 6:00 PM.

### Scope

This report is based on the crime prevention strategy known as Crime Prevention Through Environmental Design or CPTED (pronounced sep-ted for short.) CPTED is a strategy that recognizes that a relationship exists between the built environment and incidence of crime.

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The most attractive feature of CPTED as a strategy is that it, unlike other strategies such as target hardening, attempts to accomplish a high level of personal security without imposing a fortress like structure on the environment.

### Subject Facility

Location: 307-55 Av. S.W. This is an Application to build 3 building's which will house 318 Units for residential and mixed use. There is a 2 storey Parkade which is to be used for resident and visitor Parking as well as some surface parking which is to accommodate all parking requirements.

### Recommendations

- Elevator Lobby's and Stairwells should have as much clear storefront glazing as possible to enhance personal safety through natural surveillance of the area. (Personal Safety Issue)
- Parkades should have white painted walls and ceilings with light designed and placed for pedestrian safety and the safe movement of vehicles. Often these areas are designed with the main concern for the movement of vehicles but personal safety should be the priority.
- Public areas should be designed with tamperproof and vandal proof fixtures, which would include but is not limited to lights, furniture and signage. It is also prudent to graffiti proof walls floors and ceilings in these areas. This will reduce maintenance costs.
- A good CCTV system which is monitored by security personnel should be deployed throughout the building, especially in areas that are accessible to the public and border on private space, like the lobby's, main reception, parkades, and elevators. If this is not affordable in the building phase, wiring and mounting locations should be afforded as well as a centralized area in the security office for addition at a later date.

Personal safety of the individuals that will be using and occupying the PARKADE is paramount. A number of different elements must be reviewed and seriously considered to ensure that the design provides a safe and comfortable environment. All planning and design development must acknowledge the need to enhance the users' sense of

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personal safety and reduce design features which provide opportunities for intimidation, threat or assault. The addition of an underground parkade requires special attention and serious scrutiny of the design of the structure when it comes to satisfying the needs of user safety.

A camera monitoring system and security access controls should be implemented in the original design of the building interior and exterior including parking areas. If the hardware portion is too costly to implement at the time of construction, wiring and setup utilities should be done to accommodate easy implementation of hardware at a later date.

### Lighting and Visibility

Light fixtures should be placed so as to eliminate entrapment spots and should provide a uniform level of lighting minimizing the contrast between light and shadow. Light fixtures which can withstand vandalism and which can be easily maintained should be utilized. Wall and floor surfaces should be light in colour, which would improve visibility in interior public spaces. Often lighting in Parkades is used to light the movement areas of vehicle traffic; this should continue to the Parking Stalls and illuminate pedestrian user space once the vehicle is parked. Lighting should be directed and provide sufficient illumination to allow users a clear view in a manner that does not create glare.

### Sightlines

The structure should be designed so as to maximize lines of sight ahead, behind and to the sides. Barrier materials should be visually permeable and use reflective surface at comers to improve visibility. Clear glazing in areas such as stainvells, elevator lobbies and entrances should be built into the design. Landscape material should be selected and located so as not to impede long views. Building exterior design and placement should maximize overlook and casual surveillance of public spaces.

### AREAS of SPECIAL ATTENTION

Corridor

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Hidden recesses in corridors should be eliminated. In curved or angled corridors, mirrors or mirrored surfaces should be provided to allow a view further ahead. Corridors with unlit recess shall be avoided. Long corridors should have midway exit possibilities. There should be a choice for exiting or going back.

Wheelchair ramps are to be as open and transparent as possible. The sides of Ramps should not be constructed of a solid material. A transparent material or pickets providing views through and beyond the ramp should be used. If the ramp is placed adjacent to a solid wall, the other side should be transparent.

### **Entrapment and Movement Predictors**

Areas of entrapment are to be avoided. Potential areas of entrapment are: unlit recesses, corners or alcoves; small structures (sheds, storage areas) which are unlit or unlocked. Washrooms which are located in low activity areas can be entrapment areas, especially if the entrance configuration is complicated and communication to a corridor is difficult. Single use washrooms are better choices.

Quadrangles and courtyards must be so designed so that there are no entrapment

The use of clear glass panels is recommended in all doors to stair wells, corridors and entrances. All unnecessary corners, planters, walls and fences which could produce entrapment spots should be eliminated. In enclosed public spaces, columns, rather than shear walls, should be used as structural members. Alternative pedestrian routes, multiple exits and choices in direction should be provided wherever possible.

Structures which create entrapment spots must be avoided. In any area where entrapment is an issue, consideration must be given to communication needs, particularly for emergency assistance.

Pathways which force users to go past entrapment areas should be avoided. Paths should be designed to allow users several alternate means of movement and a means of escape.

### External paths

areas

External paths should be designed and located to avoid entrapment areas. Appropriate signage should be located so as to identify a choice in direction or route, and where each will lead.

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### Edges of Buildings

Recesses and unlit areas should be avoided. Reflective surfaces should be provided at corners where appropriate. Proper lighting should be provided to avoid dark entrapment areas.

### Isolation

In areas of low pedestrian traffic, clear, concise and highly visible signage should be used. Clear directions to the nearest communication device must be given. Wherever it is deemed necessary, alert stations (emergency telephones) should be used to aid in emergency situations. Surface parking lots located behind or beside buildings must have sightlines to nearby assistance within the building. Clear, concise, diagrammatic building plans should be provided inside the building.

Entrance identifying the location of washrooms, telephones, reception areas, public spaces, cafeterias and lecture halls. Sufficient information, identifying the nearest staffed area or exit should be provided at major decision points within the building.

### Access Control

The issue of access control is important. A number of buildings are occupied during normal working hours and are locked for the evening and during the night. Some of the items to be considered should include:

- Access control needs to be designed in a way that permits staff to maintain a separation between public, semi-public and private areas.
- A system should have wide flexibility and the ability to accommodate immediate change, at relatively low cost.
- Main entrances should be designed to be barrier free and easily used by all.
- Systems should be designed for the long term and not become obsolete shortly after installation.
- The main lobby and entrance shall open onto a properly staffed reception / office area allowing casual surveillance of the entrance to the building.

### Communication

The need to communicate and to be able to call for assistance in cases of emergency is extremely important. A means of communication shall be provided in areas of greatest vulnerability where confrontation may potentially occur such as:

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- cash collection locations:
- reception counter areas;
- parking kiosk;
- Other areas where confrontational discussions may occur.
- . Some of the design options should include:
- providing emergency phones in problematic areas or isolated areas and connecting to the Security.
- -providing a public address system in buildings to facilitate internal building.
   Communication.

### Activity Generators / Activity Mix

In planning of a project, the concept of locating high risk or low volume activities next to high volume activities should be implemented. This should be considered in the following situations:

There are situations where the office areas and reception areas are far removed from the main doors or entrances to the building. This allows for anyone to enter the building at anytime and leaves the reception area in a very isolated situation. This should be avoided. Special attention shall be paid to the location of pathways, entrances and exits for people with mobility difficulties.

### Graffiti Proofing and Anti Vandalism

Graffiti proofing and anti vandalism design should be added to those areas of the building which creates the most risk for these types of crimes.

### Underground Parking/Parkade

Of most concern is the underground parking area, parkades are secluded areas where crimes are of committed due to isolation. Crimes involving assaults, theft, vandalism and robbery often occur. Surface parking lots located behind or beside buildings must have sightlines to nearby assistance within the building. Good directional signage and lighting will enhance pedestrian and vehicle flow, and add to personal safety.

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### Washrooms

Washrooms which are located in low activity areas can be entrapment areas, especially if the entrance configuration is complicated and communication to a corridor is difficult. Single use washrooms are better choices. Washrooms that are designed for several users should have a maze entrance, this allows for privacy, but also allows users to sound for help if trapped.

# **Drawing CPTED Review**

307 - 55Av. S.W., Calgary, Alberta

LOCATION	POSITIVE FEATURES	AREAS OF CONCERNS	RECOMMENDATIONS	
Drawings / Page DP13 and DP14		Personal Safety and Privacy Benches	Benches should all be fitted wit split seating. This will encourage more use by residence and discourage laying down on the benches.	
Drawing / DP15	Washrooms	Personal Safety Design of Washroom	Please refer to drawings for recommendation of single use private washrooms.	
Drawing / DP21 and DP27	Washrooms	Personal Safety  Access/Egress to washrooms.	Please refer to drawings for recommendation on Washrooms. Washrooms should be accessible directly	

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LOCATION	POSITIVE FEATURES	AREAS OF CONCERNS	RECOMMENDATIONS
			from the LOBBY.
Parkade	Parking for residents, visitors and users	Personal Safety, protection of property and natural surveillance.  The Parkade is some distance from the buildings and may create opportunities for users to be victimized at a higher incident rates. There is virtually no site lines into the Parkade Structure, which will add increased risks to the users. Opportunities for vehicle theft and break ins will also increase.	Normally in structures of this magnitude, which house a large amount of residential properties there is underground parking beneath each tower.  Recommend underground Parkades below each tower.  If this cannot be accomplished, there will need to be an in deptirisk assessment and the integration of strategies to mitigate the associated risks of the Parkade. This should also include a safe-walk program, which residents / users can opt to use should they feel at risk.



The Built Green Multi™ program has four levels of achievement, shown below as Bronze, Silver, Gold and Platinum. Energy efficiency targets must be met as well as point minimums for each labeled level. Each separate category has minimum point totals that must be sefected.

Checklist Categories		Bronze	Silver	Gold	Platinum	
Energy Performance better than the MNECS by		10%	25%	35%	50%	
ı,	Operational Systems	Min. 32/111				
п.	Building Materials	Hin. 10/73				
m.	Exterior & Interior Finishes	3tin. 10/74				
v.	Indoor Air Quality	Plin, 15/66	81 Points		100 Paints	120 0
le-	Waste Management	Min. 7/30	93 89663		ELW MILES	120 Folia
/1.	Water Conservation	Min. 2/35				
VII.	Business Practices	Min. 9/40				

### CHECKLIST REQUIREMENTS

In order to properly verify the Built Green in program, for each item chosen from the checkest, a verification must be ready to be supplied, if the home is randomly chosen to be audited. The Builder will be given a short amount of time to compile verifications and supply them to the auditor. Forms of verification include: Installing Centract Letter, Supplier Verification Letter, Invoice or Purchase Order as well as an On-Site visual verification. Please ensure each verification has the required information included, as verifications missing required details will be rejected.

### CHECKLIST CRITERIA

Five fundamental pillars serve as a basis for each item to be considered in the checklist. Each line item must meet at least one of the criteria listed in the left hand column, where two or more of the subsidiary points listed on the right must be addressed.

- Resource Use
- Energy Efficiency
   Recycled Content
- . Indoor Air Quality
- Durability
   Innovation
- Atternative Construction
- . Measurable or Validated
- . Promotion of greater use
- Environmental Impact

### **ENERGUIDE RATING**

This rates the energy afficiency and energy consumption of the home using the EnerGoide for Houses software, HOT2000. Information such as home orientation, home dimensions, insulation values, type of heating system, construction material, window type and window design are input into HOT2000 in order to calculate a rating. An average rate of air changes per hour (ACH) is initially used for the calculation. Prior to completion of each house, a mandatory blower door test is performed and the actual rate of air changes per hour is then input into HOT2000 and the final EnerGoide rating is calculated. This standard applies to low-rise detached, semi-detached and now houses covered by Part 9 of the National Building Code of Ganada that do not share heated areas, ventilation systems or heating systems with other dwelling units.

### **AUDIT VERIFICATION REQUIREMENTS**

Built Green \*\* will conduct random verifications of the Built Green \*\* Checklist to maintain quality control and program credibility. The goal of the program is to perform random verifications on 5% of certified homes. If deficiencies are found, follow-up inspections will be done to verify corrections at the expense of the Builder. Random testing will include the builder producing the documentation to support checklist selections. The checklist selections must be supported by at least one of the following criteria: on-site verification or documentation stating when and from whom the product was purchased, as well as when, where and by whom it was installed.

# BUILDING ENROLLMENT FORM Multi-Story & Residential Tower PILOT

BUILDER INFORMATION

For barry more to 605-350-266 (In-the lines et )	544 384 Alee SE, Calgary All T3G 134 No. 190, 40 Inner	400,2103,2518	Man Cortach		Walted Pades	
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Built Green™ Multi Checklist

Items selected must be applied to every unit, except where noted otherwise 6.e.; central systems).

Werston 6 -August 14, 2007 - ONLY FOR USE BY BUILDERS PARTICIPATING IN PLOT

\*\*\*NOTE: THES IS NOT A FINAL DRAFT AND IS LIKELY TO CHANGE\*\*\*

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	RATIONAL SYSTEMS on security of any order of products that conditions toward lower energy consumption as well as alternative has	ting and elec	trical
	32 (UNDER REVIEW)		
1-t	All ductions joints and penetrations sealed with low train mastic or aerosolized sealant system.  Our mater is a palened Subir season that are more with the expension, contraction, and descript of the duct system comparison. A high quality out appears proxip measures energy are from numeric. The additions to the system should be sured and designed in defaul the contraction to according to the first train of the system.	3	) 3
1-2	Install individual unit programmable ENERGY STAR thermostat (2 pts. total for all units).	2	2
	A sell back thermostat regulation the health-providing system to provide uptimum aswribet when the unit to compared and its concerns energy when it is not Building and encouraged to include a member system to unione adequate temperatures. The building duratifity		
1-3	Install high efficiency, sealed combustion heating systems, all units or common system (min. 92% AFUE).	3	. 1
	High efficiency famocos or holics such as condensing eyelens, reduce energy consumption and consequently head full prilance.	=	
1-4	Calculate design heat loss and properly size HVAC equipment and/or implement a boiler management system to match the system operation to building loads and optimize controls for maximum energy savings.	2	.3
	A properly specified healing and coding system can reduce code as well as conserve energy. When properly specified which increases the efficiency and durability of the equipment due to less cycling on and off.		
1-5	Centrally locate HVAC systems inside the building's heated envelope and reduce duct length.		1
	The official under the proving broudleted and simple freed is had be the evolutioned rather that existed to the building. High will being healing hydress with shorter destinator destinator begins most energy.		
1-6	Install HVAC systems with variable speed motors (ECM).	3	3
	A validite speed for motion is designed to very its speed based on the buildings heating and an conditioning requirements. Violeng is conjusted with the tremonated, it languages as temperature concluding through the home. Solvering temperature values is like home. It also possibles greater or consistency and qualit performance.		
1-7	Units contain mulitple heating/cooling zones, thermostatically controlled zones (2 zones = 2pts., 3 zones = 3pts., 4 zones = 4pts.).		715.6
	Efficiency can be algorithmently improved by only heating or cooling when associated and by only heating/cooling to the swed desired. Isospeciales. Different desired temperatures can be set in each tuest or special and an end-volve can be turned off when not sociative. This tipe of solders made in a distribution includes or of energy connectificity and oppositing coals.		101 101
1-8	Install ground' air/vater/solar source heat pump system, either radiant or forced air to supply majority of space heating and cooling loads.	10	10
	Here pumps can highlicently reduce primary energy use for building healing and cooling. The research component displaces the need to primary fuest, which, which, since burned, produce graveluses gravel and energy color. Please looks: Effectiveness of contract in contract contract and contract with specialists or engineer to contract and energy color.		
1-0	Provide electricity (1 pt.) and/or natural gas (1 pt.) direct metering for each unit.  Direct metering in a MAX Cardent they require algorithms expenses above and beyond provided condenseum energy has and halds individuals required for energy size.	1	167
1-10	Install and balance an individually controlled active Heat Recovery Ventilator (HRV) and/or solarigeo fresh air pre- heating for each unit (4 pts.) and/or common area (2 pts.) and/or buildings exhaust air (3 pts.)	4	210.9
	HIV's emount neture as out of the loans while bringing in fresh as for vertication. The process used to be the takes advertispe of the heat in the exhausing to prevent the incoming air, soving energy.		
1-11	Install and balance an active Heat Recovery Ventilator (HRV) and/or solariges fresh air pre-heating for building common area.	2	2
	Hill address returns all not of the contemple troughg or facilities for variation. The propert used to be taken advantage of the best in the exhaust and to prefer the decorate decorate at the state of the property.		
1.12	Install and belance an active Heat Recovery Ventilator (HRV) and/or solar/geo fresh air pre-heating for the building's exhaust air.		1
	This would apply where a building has a large serviced of entireus air (in. York o revisionals or health shall). A HPN's would help to recognize must in the final in the set purp entireusland.		
1-13	Install district high efficiency domestic hot water heating system (3 pts.) or an instantaneous "tankless" domestic hot water system in each unit (3 pts.).	3	1
	Hist water hoose is first sented with a cover conduction against All as for computation is taken directly from the outside. A direct system utilities is on exist went pipe in the analysis of controlled the properties of controlled the properties of controlled the properties of the public of the public of the public and properties therefore the properties of the public of the pu		
5-54	Hot water storage tanks insulated by manufacturer to a minimum R-15.	2	1 2

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	A CONTRACTOR OF THE CONTRACTOR		
	An insulation bisered will reduce the standing heal tests of the loss on the land.		
1-15	install solarial/waterigeo (solar fraction > 50%) DHW Heating System to supply a minimum of 25% of the peak DHW heating load and 70% of the total DHW energy load.  A solaristic enterind of energy in weeter the total DHW energy load.		3
	lanevable energy and also reduce great house pas entraines.		
1-16	Provide roof area (min. 10% area of total) designed for future solar collector (Make solar ready, with solar or PV conduit installed).	1	1.5
	A rolf area with an appropriate phoje allows for the effective addition of future some six, water healting or photovolius is.		
1-17	Install urban wind/photovoltale electrical generation system which supplies (10%-2 pts., 20%-4 pts., 50%-5 pts., 100%-10 pts.) of design electrical load for the private area(s) of the building. This does not include electric heat.		2 to 18
	Litture wind, and photocolistic use remember energy to permiste electricity for the hones, greatly exploring schemes an incrementally energy counse.		
1-15	Install photovoltaic electrical generation system which supplies 50% (1 pt.) or 100% (2 pts.) of electrical needs for the common areas. This does not include electric liest.		1#2
	Photovolates use the aut's energy to perende electricity for the home, greatly reducing reliance on our renewallin energy squares and also reducing grean house pas entiretes.		
1-19	50% (2 pts.) or 100% (4 pts.) of electricity used during construction of the project is generated by wind power or equivalent green power certificate.		2014
	This profice ancourages and promotion the use of renewable, auditorable energy resources as well as reducing green house gas emissions.		
1-20	50% (2 pts.) or 100% (4 pts.) of electricity used by homeowner during first year of occupancy is generated by wind power or equivalent green power certificate (prepaid by builder).		201
	This practice and auxiliars and promotion this use of removable, sculturable energy-resources as used as reducing green following as announce.		
1-21	install a central drainwater heat recovery system (1 pt.) or individual units at each shower (1 pt. per shower max 3 pts.).	3	1102
	Challed the Anti-recovery circle shaddle and exchange of healt from grey value to the Incoming value. This pre-healing reduces the amount of energy required for the hist value have.		
6-22	Sealed combustion gas freplace with electronic ignition or electric freplace for all freplaces.		
	Sealed combosition freplaces income a position-veiled special vert supplied by the anacufacturer fluid memority verts through a sidewell in a horizontal profiler. The store sald loss receives the five pales and the pulse specially provides for passage of combosition at		
1-23	Install fireplace fan kit to circulate warm air into room on all fireplaces.  A fan st almost be had generated by a freplace to be hardened into the home more effectively.	$\overline{}$	1
1-24	All windows in the project are ENERGY STAR labeled.	2	3
	ENGROY STAR labeled unidous save energy by insulating better than standard unidous, making the home more conflictable all year reunal, reducing publish hable and can recult in last conductation familing on the window in told weather.		
1-25	All Electric ranges use below 480 kwh/yr, based on EnerGuide rating system.	1	. 1
	EnerGuide Igorcurfee reduces tue conjumption by approximately 20%.		
1-26	Refrigerators( 1 pt.), Dishwashers (1 pt.), clothes washers (1 pt.) and/or combo washer dryer (2 pts.) are all ENERGY STAR labeled products.	4	1104
	An ENDRGY STAR lates for refrigerator indicates the product has not exist separaments to reviue energy summercities.		
1-27	All Clothes drivers have an energy performance auto sense dry setting which utilizes a humidity sensor for energy efficiency.	1	4
1-28	Other building appliances (ie. TV, LCDs, security systems) are energy efficient/Energy Star rated.	*	
	An ENRIFICY STAM label indicates the product has not strict requirements to reduce energy-consumption.		
1-29	Exposed Exterior Accessibility Ramps heated with renewable energy or waste heat.	2	.2
	This practice encourages and premotes the use of removalite, suchamable energy resources as well as reducing green house gas emissions.		
1-30	Install properly supported ceiling fan wired rough-in for each unit.	1	,
1-31	Install interior motion sensor light switches. 1 point for every 10 switchs for a maximum of 3 points.		1163
	Mellion sensor pullshes prevent lights from staying on in recent that are unantiqued. This helps reduce electricity consumption,		
1-32	install lighting with an automation control system capable of unified automation control of lighting loads for all common areas.		2
	Lighting and substration control systems prevent lights from staying on in many softend accupants. Thereby reducing electricity consumption		
1-33	Install automatic lighting system (2 pts.) and/or ventilation system (2 pts.), which are triggered by movement or CO levels, for garages/ parkade.	4	2104
	Administry will also below correct and energy efficiency.  Exterior Lighting follows IESNA illumenance requirements for recommended practice manual: Lighting for Exterior		
1-34	Environments. This addresses light patition issues. The Runnishing Engineering Sacrety of Neth America can be hand arrive all issues and an "Cybring for	2	3
	William Strand Contract and Con		

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1-35	Common Area it with high efficiency lamps.	1	١,
	troundappert lights loss much of that energy as head rether than light and therefore are hid as energy efficient as many of the after spinors available.		
1-36	Minimum 25% (1 pt.), 50% (2 pts.) or 100% (4 pts.) of light fatures are L.E.D., fluorescent or have compact fluorescent light bulbs installed in each unit.	4	1,244
1-37	Purposers, compact foresteed and L.E.D bulbs use 1975-less energy than standard bulbs and lest up to ten times larger.  Minimum 50% of recessed lights in the entire building use halogen bulbs.	1	,
1-38	ruingen halte are stignity more snergy efficient, lest larger and provide a more effective bern light then conventional ballet.  All EXIT signs are photoluminescent or LED.	2	1 1
1-59	Air tight, insulation contact-rated recessed lights are used in all insulated ceilings, or insulated ceilings have no recessed lights.  These are account from enhancing from the light light follows that is a most entity to energy official foliate.  TOTAL SECTION POINTS	1	
		66	
This sett	ILDING MATERIALS  Too chair with building components that make up the structure of the name, items structure attenuatives to using large dimensional sumper, product, which come from sustainable managed forests and reducing the overall amount of lumber used, is 10 (LNICER REVIEW)	ons with a r	nopries
2-1	Insulated Concrete Forming system (ICF's) used below grade (2 pts.) and/or above grade (2 pts.). Insulating Concrete Forms (ICF) are fuller fulling elements made of plasts than that are assembled, offer like fulling blocks, ride the structe of a fulling's elements. The ICF's are fitted with reeffected concrete to clearly element while Likete the fitted forms. The ICF's are little of plasts to present constituted while the fitted and a further to fromtest.	4.	2964
2-2	Minimum of R-7.5 insulation installed under entire basement/foundation stab under conditioned space.	2	. 3
	insulation indufed under the becomed tide will reduce the downward had forester into the ground below the stat, expectely when hydronic in stat. hadring to included, insulation under the call can reduce temperature energy in the hadred space and respect quicker to new changes in there exist semaple.		60) 23
53	Attached garage, parking and/or loading dock overhead doors are insulated with RS to R12 (1 pt.) or greater than R12 (2 pts.).	2	102
	An insulated executed gamps storrell testical head toos.  All which are considered to confirm and an insulation to the start to 1950 and the start to 1950		1 3
2-4	Attached garagerparking walls and ceiling are insulated to NBC minimum (R12 for walls, R34 for ceilings).	1	
2-5	A fully troubled garage with an a holler zero, reducing heat less.  Non-solvent based damp proofing (seasonal application).	1	1 1
	Water based deep preafing products use violer as a filmer. Oil hased dampproefing give off a handler of violate organization. These VIDS can be a stong triber and an add to all patieties.		\$0.25°
24	Paint Parkade semi gloss white to reduce number of required lighting futures.	1	1 1
2.7	Using high reflectures white your above for fewer lights to be used in the partialle area.  Steel studis made from a recycled steel (min. 75%) is used to replace wood studis (min. 15%).	1	1 3
	Recycling their reduces landff create and saves on west consumption.		
2-8	Use Optimum Value Engineering (OVE) to reduce wood use in framing:  - Extensor and interior wall stud spacing at 24° cm-center (2 points) or 19.2° on-center (1 pt.)  - Elimination of headers at non-bearing interior and extensor walls. (1 pt.)  - Use of header hangers instead of jack studs. (1 pt.)  - Elimination of crippies on hung windows. (1 pt.)  - Elimination of double plates, use single plates with connectors by lining up roof framing with wall & floor framing (1 pt.)  - Use of two stud corner framing with drywall clips or scrap lumber for drywall backing instead of studs. (1 pt.)	7	1107
			9
2-9	For every details on Optioner habe Engineering (EVE) freeing process see very defringacience com.  Walls and roof designed as 24* module to reduce waste.	2	1 .
	A 34" module lakes into account the size of sheats of 008 or physical. And spacing, carpet size etc.		
2-10	Use of insulated headers (either manufactured or site built open insulated single headers) with minimum insulation value of R10.	1	. 1
	Install manufactured insulated rim/band joist or build on site by setting back joists to allow rigid insulation filler of a		1
2-11	minimum RTO.  Now and have justes (an either the treadated on title or our be just-amended to influence of plants or included with a four-adjuster).		
2-12	Structural insulated panel system (SIPS) used for waits (3 pts.) and/or for roofs (2 pts.).		2965
	Reduces thermal origination and controls air lealings — Keeps healing and cooling costs in a minimum compared to a conventionally themset well.		
2-13	All insulation used in the project is certified by a third party to contain a minimum recycled content: 40% (1 pt.) or 50% (2 pts.).  Registed content means less landfill waste and two melenal use. Also, according to the facet, American fembrates Menufation Menufation of the means and the means and the means are meaning to produce the means as meaning.	2	16/3

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			5.7
2:14	Insulation levels meet or exceed the MNECB (may include Roof-R28, Walls R14, Floor R14).	1	
	Model New Elergy Carle institution will help to keep healing and spelling code to a minimum samplered to a conventionally framed wall.		
2-15	Replace extenor wood sheathing with installed insulating sheathing.	2	3
	Listing less materials when not required values the timest heavier, neduces themse registers and controls an inettage, it amis issues heating and conting copic in a moreovarial proposal to a conventional use.		Janes .
2-18	Deck (1pt.) balcony surfaces (1pt.), and/or veranda structure (1 pt.) made from a third-party certified sustainable transested wood source or third-party certified sustainable concrete.	1	1103
	The issuer of suclashible hared in anagement (EPM) is sensitivened to be of such importance by the Consider hands industry that, in 1993, a group of 22 organizations representing virtually at of the industry came tagether is him the Consider. Explainable Penalty Coefficialism Coefficialism Coefficialism Coefficialism Coefficialism and explainable size of efficialism distribution distributions of the explainable size of the explainable size of the explainable of the explainable size		
2:17	Dimensional lumber from a third-party certified sustainable harvested source used for floor framing (1 pt.), wall framing (2 pts.), and/or roof framing (1 pt.).  Seves all grown fronts by using frees from a second generation forest.		1394
2-16	Environmentally engineered flooring system (ie. Uses reclaimed/recycled/rapidly renewable wood waste, flyash-concrete (1;6:30%), recycled steel (1;6:60%)).	1.	
	Use of Engineered floor system serves only growth formal by using compromeis from second permission formals and the use of recycled materials.		
2-19	Environmentally engineered products for all load bearing beams (ie. Uses reclaimed/recycled/rapidly renewable wood waste, flyash concrete, recycled steel).	2	3
	Engineered products include wood products, concrete and verycled steel.		
2:20	Environmentally engineered products for all exterior window and door headers.		1
2-21	Engineered stud material for 10% of stud wall framing.		
	Lits of Engineered Lamber products sovers and growth hereof to using companients have accord garmented forests and recycled multipliats.		0.00
2.22	2000 T. C.		100
2-22	Engineered plate material and/or finger-jointed plate material.  List of sizy/field materials Laves oil growth funds.	_	
2-23	Finger-jointed studs for 90% of non-structural stud wall framing.		2
2-24	Recycled and/or recovered content gypsum wallboard, recycled content (min. 15%)	1	
2.25	Recycled content exterior wall sheathing (min. 50% pre or post consumer).		9
	Recycles content ceduces resulfil weate and the use of new materials.		
2-26	Replace exterior wood sheathing (if applicable) and use external rigid insulation as sheathing or installed insulating sheathing (2pts.)	2	- 3
	Liking this ayotest replaces the need for use of exhibitional CEED product, assemp the forest resource, reduces the most insignation and controls air leakage. If also keeps bending and cooking code to a retrievant compared to a conventional real.		
2-27	100% Recycled content rainscreen attachment system.		2
	One of subject content purpressions, disel of aluminous remicion bringing may replace the healthcoal use of thested wood strapping on retractive approach.		
	The solution of the second control of the second of the se		
2-28	Advanced sealing package, non-HCFC expanding foam around window, door openings and all extensor wall penetrations (2 pts). All all plates sealed with foam gaskets or a continuous bead of acoustical sealant (1 pt.).	3	1303
3-29	Builder has installed a green roof over 50% (3 pts.), 75% (5 pts.) or 100% of total roof area (7 pts.).	3	3.50
	Creat notices are defined as a system of plants, growing reaction and northogogopal membrane that acts as a whole to macroide the available		
	entranses to benefit of imprinting an employed district feet ofest, as popular, stem witer organized and green space. Extensive in 2-4" Titalmess typically requires 38-40 busined disposit, while intensive roots (8"4") require algebraic shalkest studiest support.		
2-30	Builder has incorporated exterior horizontal ancitor vertical shading devices for glazing (2 pts.), or exterior operational shading devices (4 pts.).		700
	Exacting vendors from easts must gain it a key design change for pastive cooling and to reduce cooling trads on within 1970, explains in multi- bulance. Light offends anothe recover can be openized to allow the venter aske gain, white reducing realmenting stamp the stamper.		
231	All decks or balconys are thermally broken from the envelope by R10 (1 pt.), or fully separated (3 pts.)		1#3
	TOTAL SECTION POINTS	40	
	TERIOR and INTERIOR FINISHES	7 Sept 12 - 5	27
nd seriebi	or Sources on the firstly materials used both inside and outside of the project. The zeros licted include using longer leating products, products on that are harvested from third party certified managed forests.  10 (JACDER REVIEW)	with respuls	ed conten
3-1	Exterior doors with a minimum of 15% recycled and/or recovered content.		
	Recycled or recovered content analysis we been our landful use to a movimum.		900
3-2	All exterior doors manufactured from fiberglass.	1	

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	Planglass duest insulate before from does allowed at wood shorts, here a larger fleegan, do not vary, load at souts, and therefore is bus benefit as a		
3-3	Extensy window frames contain a minimum of 10% recycled content.	1	
34	Extensor window frames are made from third-party certified sustainable harvested wood.		
	Taken track from a forest managed a priors, that prevents since stating sinces, and implicits loses to replace from which they've been harvested.		
5-5	Concrete used in home has a minimum supplementary comenting material of 25% (1 pt.) and/or 40% (2 pts.) is within the scope of proper engineering practices.	2	1102
	To every one laive of Parland central percepted, eighth lettins of a loc of carties discule to protocol. Engagementary pre-entitive products missile. By earl, black fortune diagnos with processing or conditions.		
3-6	Natural comprehensia stone/stucce/brick of fiber coment siding – complete or combination thereof for 100% of exterior cladding.  Substance included in cladding, though any lasting thereof reduced.		
5.7	Extensor trim and finish is made of recycled content (50% min., pre or post consumer) material, durable and fire rated; trim (1 pt.) arction wall finish (4 pts.).		1103
	The proof lace and will, neel will regate come for perchance and Father cover, it a time, organized begand rewall.		
3-0	Extentor frim (3 pts.) and for siding materials (4 pts.) have recycled and/or recovered content (min. 50% pre- or post-consumer).		3104
	Necessarily reconstructed by relating pales he expect of new relating used in precision by going up now under the property which consider registers and relating to the property relating to the property relating and relating to the property relati		
3-0	Exterior trim materials are manufactured from OGS. The solicials experience from DGS years a beninding process to make larger process from solicity about of states from DGS years a beninding process to make larger process from solicity process from the solicity process from the solicity process from the solicity process from the solicity from the solic		13
3-10	All extensi thm is clad with pre-finished motal (1 pt. over top wood backings, 2 pts. without wood backings),		19-2
	This shall self-gree freehold social in a district long leating product that lengthes no maintenance, teduces wants in lengths due to long the of product.		
3-11	Deck or balcony surfaces made from recycled materials: 50% (1 pt.), 75% (2 pts.), 100% (3 pts.), and/or from low maintenance materials (2 pts.) (Deck surfaces should not need maintenance of any kind, including painting, for a minimum of 5 years).	5	123-05
	Exhibiting recent nations adjust a visit by use of present here and high orders receiped one if the ring of service be for made property and the property of t		
3-12	Install 25-year (2 pts.), 36-year (3 pts.), 35-year (4 pts.), 40-year (5 pts.), or 50-year (6 pts.) cooling material — with manufacturer's warranty.	4	1,1,4,14
	A singer war aread our system seven horsey in outstanding some, and reduces the use of sentitive has be the language of the process.		
3-12	Minimum 25% recycled-contant roofing material.	3	
	They have numer over mature, reduces the use of securements, and sweek in smaller.		
3-14	Interior doors made with recycled and/or recovered content (min. 15%-1 pt.) and/or from third-party certified sustainable harvested sources (2 pts.).		1963
3-15	Interior doors made from third party certified sustainable harvested sources.		
	Tries Take Trees from a Trees manageri system That pre-early class (Lating Sees, and registry Sees (5 registre Text which they have been harvested).		
3-16	Doznestic wood from reused/recovered or remilled sources = 500 square foot minerium for flooring or all catinets or all millwork.		
	Secret, recovered to excitate become alternate the result for two resources, among promptified, mode, and benefit from depoting		
3-17	All carpet packling made from natural or recycled textile, carpet cushion or tire waste.	2	
3-18	Install corpet that has a minimum of 50% recycled content.	2	10.
2-18			
	Received earliest expert to a good upon of research research, leasure of goods, and improves of goods, 100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain		
	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain concrete.		
5-19	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain		1
5-19	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain concrete.		1
5-19 3-20	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain concrete.  Install a minimum of 300 square feet per unit of laminute flooring.		1 3
5-18 3-20	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain concrete.  Install a minimum of 300 square feet per unit of laminute flooring.  Laminum of an authorized an authorized and authorized flooring used in home (min. 300 square feet installed). Products must be third-granty.		3
5-19	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain concrete.		1 3
5-19 5-20 3-21	100% recycled or recovered content underlayment or use of concrete finishes to enable the flooring to remain concrete.		3 3

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Proper picting a serry and beneficially introduced interest interest in property of a property of the property		
Solid hardwood trim from third party certified austainable harvested sources approved for millwork (2 pts.) and/or		1104
The process come old growth forests by using been fine treat managed appears that pre-ents after public trees, and register trees in even flam.		
Paints or finishes with minimum of 20% recycled content.	1	1.0
Parts in titures made form recycled content are announced by flexibly facilities recycling paint reduces the face from sould in landille.	7	9
Natural granite: concrete, recycled glass or stone countertops in 100% of the kitchen (2 pts.) and all other countertop areas (1 pt.).		191
그들은 사이 나는 이 경영하는 이번 생활되었다. 이 이 이 사이를 하는데 되었다면 하는데		1 .
Products such as should been are made from applicational media.	=	
		1102
		1
	26	
in tiques on the qualty of the ar witin the technol propert. Products listed here include materials that are list in VOC's, products made the various air disening and verifiation systems.	en al natura	materials
200000000000000000000000000000000000000		
filtration system ( 6 sts.) or an ultraviolet air puritier (2 pts.) in conjunction with the HVAC system.	1	12.5 01
consisted lineage the furnish and role the home. An Electrical AF Charact offers a capetial result of Strates by using eduction. A stopp Modeln before age in the profit of the particle the state. Call dender and around a role to profit of the profit of the artists particle to the capetial of the artists particle from a region of the artists of the a	5	
Install power drum humidilier (1pt.) or a drip type humidilier (2 pts.) in conjunction with the HVAC system.		7
Proper humolity provides a more constraint in term, encourage at a invest lamperature, or you can have from your intermedal for energy savings.  Describing humolity also interes constraints (by as to prevent attempt to become from and encounter from some constraints about the matter as the transfer and encounter short injurity for matter and then salary agreement a sind distinct forcing and the revent		
Install drip type humidifier on HVAC system.		1 :
Project liutribly provided a more confurbable thing unnormous at a timer temperature, so you can turn don't your Sectional. Se among earlings. Controlling liutribly elso inners a collutating the air to prevent contage to furnishing find no existent. The charge transform the self-section plan healing and sooling system to pany through a middle Merigani, so the prolifers pilot on north and don't developed the self-section.		
Install in-line vertilation fan with programmable timer (separate switch from lighting) in each unit.		] )
Install passive Heat Recovery Ventilator (HRV-2 pts.) or and active Heat Recovery Ventilator/ Energy Recovery Ventilator (HRV or ERV-4pts.) in each unit.	4	1104
same for a final an existin from publish firmigh the unit and end into the unit at return dust unit, thus the HeV fin ERV tension, bed. It and necessaries the energy impact in minture that greaty improve the sweet increases the energy impact in minture the ERV room to sweet increases the energy impact in minture that ERV room to		
Install thermostat that indicates the need for the air filter to be changed or cleaned.		1 .
This feature displays filter continuous are remission as the fractional fragular furnish function in properties being your mechanism requirement.  Incoming efficiently and problem files as used as ensuring a feedily indice at environments.		200
All combustion appliances are sealed with no possibility of backdraft (if units are individually heated).	3	3
Stated-controller applicable they all their paralystics or from the address, which entered only choose of back shalling. This feature is expectely		
[일본다] [일본다] [인 경영자는 경영자는 경영자는 경영자를 보고 있다. [인 경영자는 경영자를 하는 경영자를 하는 것이다. [인 경영자를		
Earlier remarkly detection over against high terms of horse sentent proposition.	11	
FIGURE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	1
Power vacuum all HVAC dusting prior to occupancy by homeowner.	2	1
FIGURE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	] ;
	Sooth hardwood term from third party certified sustainable harvested sources approved for millwork (2 pts.) and/or calcinets (2 pts.). The source covers of growth fivests it grown that has these through a prevention that calling has and requests have in water from the party of	Solid hardwood tim from third party certified austinizable harvested sources approved for millwork (2 pts.) and/or calchesis (2 pts.) and party final hard hard solid party for hard hardwork (2 pts.) and party final

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	A contair recours extract solvints Aust solvints, when enhancing to the operate or that dust rates and bustants on tot have the appendixtly to should be. The rotal to special extraction as:		
4-11	All insulation in the project is third-party certified or certified with low or zero formaldehyde.	2	- 7
202	Permittability that cause eye, more and from tribulor, beginning, that of coophishes, busines, springs for two, strong and complications a gifting		
412	Low formaldehyde sub floor sheathing.	3	
	Familiably to be solvino gapens signification of compound, own within with a structurate purpose and office genet. Building consists two in their of formaticity and visualization and out of the four underlayment, calculated and standard the indicates quality.		
4-12	Low formaldehyde underlayment is used in the project. (ANSI A206.1 – 1993 concentration 0.3 ppm).	1:	. 1
	Lifer from attainfule (phone), and formulativities have binders (PMO) are exhibite and becoming more sciences. FSC coliffied COD is becoming none- container, stocking assessments in a paper for all water stock (publy).		
4-18	Low formaldehyde particle board/MDF used for cabinets (ANSI A208.2 - 1994 concentration 0.3 ppm)		
	Use forced by the filterior of car to card in the same way at consisting filteriors, but not the addition of greater provide for other consisting.	$\equiv$	
4-15	Low formaldehyde particle board/MDF used for shelving (ANSI A206.2 - 1994 concentration 0.3 ppm).		19
4-16	Zero formaldehyde particle board/MDF used for cabinets (2 pts.) and/or for shaking (2 pts.)	2	210.0
	Name to the State of States		
4-17	All interior wire shelving is factory powder coated.  Visit realists as consectant shelves some after VCC balos.	_	
4-10	Water-based unthane finishes used on all site-finished wood floors.  Water-based (page floorest), when it is "good worth of trans" value according from others have to private based opening to that the		1
4-19	All wood or laminate flooring in the project is factory finished.		
	nativiting a pre-Brishlad floor attenuates the time, the visiol and the votes according with the simular sampling and firmaling of an unhabited product.		
4-20	Water-based Lacquer or paints are used on all site built and installed millwork, including doors, casing and transforable.	5	1
	Hele head about histography was an VSC of garing of the reproduction of budy		
4-21	Interior paints are used that have low VOC content (2 pts.—Standards are less than 250 grams/liter of VOCs) and/or interior paint is used that has no VOC's in base paint-prior to fint (3 pts.).	5	785
	Costille Crystolli. Comprounds (VOC) are a class of Chemical comprounds that Jam Joseph of long-tech health proteins. A right level of VOCs is paths Recipied and Jam Joseph Jam Joseph Jam Joseph Jos		
4-22	Carpet and Rug tratitute (CRI) IAQ label on all carpet used in unit (2 pts.) and/or on all underlay used in unit (1 pt.)	2	1113
	To relately spoke products that are tony towords. CNI has added that it desembles the green and white tips objects an expect company of the CNI respect has been productly be too been productly an independent solutions and the colors and the colors are the total colors and product type too been productly an independent solutions are the total colors an independent solution and the colors and th		
623	Natural wool carpet in all living areas.		-
	Natural result are started and save time time test are contact sections and chemistry. Officering is figurely caused by the committee and chemistry between the contact wild the contact and chemistry and chemistry and chemistry and chemistry and chemistry and chemistry and chemistry.		
634	All virigl or linoleum sheet flooring is installed with low VOC achievines (1 pt.—Low VOC = standard is less than 150 grams per litre) and/or are reptaced by hard surface flooring (2pts.) and/or natural knoteum reptaces virigl (1pt.).	1.	110.8
	Lea VOC wheat-a or having normina the amount of VOC officerons, therefore trapping IAC.	=	
4-25	Natural Incleam in place of any viryl sheet flooring. Lincleum installed with low VOC adhesives. (Low VOC = standar is less than 150 grams per litre).	2	1
626	All ceramic tiles are installed with low VOC achiesives and plasticizer-free grout. (Low VOC = standard is less than 150 grams per litre).		2
	Mini achieves are 400 tapes or 301 inner, even released large questions of existin organic consumption (VCCs). The evidate solvents are small is enoughly or faquely the report had act on the location agent forever, each elegand advantage even for they VCCs. Sun that convertible or source than a superior to the convertible or they are sourced to the source and a property or the convertible principle or they are convertible or they are sourced to the convertible principle or they are convertible or they are sourced to the convertible or they are so they are sourced to the convertible or they are sourced to the convertible or they are sourced to the convertible or they are so		
4-27	All virtyl flooring in units are replaced by hard surface flooring.		2
4-26	All carpet in units are replaced by hard surface flooring.		
	Here surface tracing is gonerally more dispose and expresses to 440 whole a busing (Carpata better coor, most order and other abentalized become effective particulates should effect of the companies.		
	The PLANT CONTINUE OF THE DESCRIPTION OF THE PROPERTY OF THE TOTAL STREET OF THE PROPERTY OF T	100	
	TOTAL SECTION PORT	52	
		$\overline{}$	

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*****	for deals with the handling of weste materials on the construction site and ensurages recycling.  • F (ARGER REVIEW)		
9-1	Comprehensive recycling program for building site including education, site signage and time.  A comprehensive recycling program for it should highly followed by followed the amount of come among up to leading. Expending the amount of the program	2	. 1
5-2	Collection of waste materials from site by a waste management company that is a current member of a provincial recycling sounds or equivalent association and verifies that a minimum of 10% of the materials collected from the construction site have been recycled.	4	
	had projected that require showed wealth of product. It accounts that we must product an projection in losing attitude by the production of the production o		
5-3	Suppliers and Trades recycle their own waste. (1 pt. per trade, max. 4 pts.).		1104
	Twiss being requirable for recycling and network of wade not only reduces landforwards, and also province a cleaner and safer writing announcers.		
14	Minimum 25% (2 pts.) or 50% (4 sts.) by weight of weste materials collected from construction site is diverted from waste stream.	2	201
	Trans large majorable for recording and minimal of mains and only reduces health reside, and plus promising a classer and solds nothing producents.		
10	Use of recycled materials derived from local construction sites (1 pt. for each different product used, max of 3 pts.)		1101
	Products required from the construction this section mobiled second offs or mobiled gaption was offer countries as either pay and water repetition.		
5-6	econous or for ergoric turning.  Trees and natural features on site protected during construction.		1
	The principles of school over and other reduced business such as the articles and other reduced accommodate injust, and acceptance	_	
	solves, stands approved the selection and an interpretability of agreement benefits to the selection of a selection of the se		
5.7	Shared transportation benefits: provide one parking stall for a car sharing vehicle (1 pt.), and/or a car sharing vehicle as one component of condiminum association (3 pts.) and/or bicycle storage on site (1 pt).	5	11+1
	From this a version by made above accounts to the willing that part willink and using the above pertors when require Product of Second Stronge	_	
5-8	Metal or engineered durable form systems used for concrete foundation walls.		1 +
	The pile of month familing systems included the requirement of families as forthed required as	_	
		-	1 .
5-9	Reusable bracing is used for flaming.	3.5	
	The cost of recounting from the forming sediment the responsional of Labeler as distinct resources.		
-16	Install built-in recycling center in with two or more bins in each unit (2 pts.) and/or provide composter to each homeowner (1 additional pt.).	2	2167
	By molating half is incoding senters, which par by an appear so whereit variables supper combinated cases whethis, each homeowners are more they to oblige the pre-entating facilities and this contribute to heading to the pre-entating facilities and this contribute to heading to the profit by giving homeowners an option for original results out to distance.		
5-11	Provide a central recycling center for the housing project (1 ptmin. of paper, glass and tin recycling) and/or install trash compactor for unit or building (1 pt.)	2	thel
	Francing a recipiling testian and presents territing among the homeocommunications. In debtay a treat companior while not accusely reducing the mass of made, debt has an executing Co extense which meetings and restor a significant difference to be still territio.		
	TOTAL SECTION POINTS	19	
	ATER CONSERVATION		91
TI KA	IN CORSCRESS TON the encourages a reduction in the amount of setter used in the kerns or in individual units within multi-story buildings. In 7 (ANCER REVIEW)		
DE MANUE			1
is beed retrout	CSA approved single flush tollet averaging 1.6 GPF or less installed in all bathrooms.		
s week remove 6-1	install a dual flush or 1.2 GPF solet in one or more bathrooms in each unit (2 pts. for one bathroom, 3 pts. for all)	2	281
6-1 6-2	User his hors out and a consense amount over the time to the size of the size	2	2 82
6-1 6-2	install a dual flush or 1.2 GPF solet in one or more bathrooms in each unit (2 pts. for one bathroom, 3 pts. for all)		] 2#1 ] 1
DE MANUE	Install a dual flush or 1.2 GPF solet in one or more bathrooms in each unit (2 pts. for one bathroom, 3 pts. for all) These many other a create presentate solet week for every function (5.197) to 3.5 (67.197) Install waterless unlines in men's public facilities. The horses public stressors appropriate (40 lines of waterless or 3.5-10 lines produce to the horses public facilities.		7 2 1
6-1 6-3	Install a dual flush or 1.2 GPF solet in one or more bathrooms in each unit (2 pts. for one bathroom, 3 pts. for all) These soon after a clean consent or each one or more bathrooms in each unit (2 pts. for one bathroom, 3 pts. for all) These soon after a clean consent or each one was the each 1.5 old (3.19) or 3.5 old (3.19) Install water less unitial in men's public facilities. The horizon wide and are a supering with 600 lines of executing at 3.5 old lines per trail. (Features are non-sector) indice management installed as any designate look separate to participate.  Insulate the first three feet of the water lines on the hot water tank with flexible pipe insulation where units contain independent DrOV system (1 pt.) ancient insulate all hot water lines to all locations (2 pts.)	1	] 1#1 ] '
6-1 6-2 6-3	Install a dual flush or 1.2 GPF solet in one or more bathrooms in each unit (2 pts. for one bathroom, 3 pts. for all) these many sher a manual season rear solet, for each tend (2.10%) to 3.5 (pts. for one bathroom, 3 pts. for all) these many sher a manual season rear solet, for each tend (3.10%) to 3.5 (pts. (3.10%) to 3.5 (pts.)) install waterless uninsis in men's public facilities.  The histographic solet area season rear season and 40 lines of waterless or 3.5-10 lines per hash directions are non-season, reason mentals or and an why despitate sorts separate to purphase.  Insulate the first three feet of the water lines on the hot water tank with flexible pipe insulation where units contain independent DHAV system (1 pt.) anclor insulate all hot water lines to all locations (2 pts.)	1	] 787 ] '
6-1 6-3	Install a dual flush or 1.2 GPF tailet in one or more bathwoms in each unit (2 pts. for one bathwom, 3 pts. for all) these seen since a make a may have a seen seen unit (2 pts. for one bathwom, 3 pts. for all) these seen seen a make a may have a seen seen a seen (1 pts) install waterless urinals in men's public facilities.  The havings such units are approximate of 60 line of waterlay is 3.5-12 line per tail. Seen one seems are non-seeding index members and and as with designals seek seems to particule.  Insulate the first three feet of the water lines on the hot water tank with flexible pipe insulation where units contain independent DrRW system (1 pt.) and/or insulate all hot water lines to all locations (2 pts.)  Memory for lead you in the large Ave all designed to the seek counts to all locations (2 pts.)	1	
6-1 6-2 6-3	Install a dual flush or 1.2 GPF solet in one or more bathwoms in each unit (2 pts. for one bathwom, 3 pts. for all) these soon shir a clear someon two water well to every flush (1.29) at 8.2 GPF (1.29) install waterless urinal as in men's public facilities.  The horizon solet and are in agreements of the origination of 3.2 GPF (1.29) at 8.2 GPF (1.29) install waterless urinal are improved to find the origination of the solet and are in designated to be approximated or 3.2 GPF (1.29) install designation of the solet of the water lines on the hot water tank with flexible pipe insulation where units contain independent DrRW system (1 px.) and/or insulate all hot water lines to all locations (2 pts.)  Minimally for final type in the lesser to a discussion to the solet season graded and the solet tank and in the solet season and locations (2 pts.)  Minimally for final type in the lesser to a discussion to the solet season graded and tank interesting the final season to the solet season and the solet season and season and the solet season and the solet season and season and season and the solet season and the solet season and season and season and the solet season and season	1	i .

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	Law burgs on the collect flow as it is measure of \$3 to make or turned area seed \$3 to make on three since Setting process.		
6-7	Supply from loading clothes washer in each unit.		1
	Point Energy rather excited indicate ratio by design, as they are only required to fix up the recovery range mount into the Newtonian participal participal and provided the participal par	_	
6-0	Install water saving distressher that uses less than 26.0 L/water per load in each unit.	1	10
	With several devices are and his refuge to retage belt the annual of water machine or well as decreased every regularized. The Energy consideration of white participations of the following the control of the several energy of the control of the several energy of the control of the several energy of the seve		
6.0	Install perceable paving materials for otheways and wallowsys.		
6-10	Pytons with pre-trig audicin's after subvalint to face back liter for ground cultured of vitre above, servines.  Install a water meter in every unit.		- 1
	Interest of water endown according to according to the property storm according to the property for colour size.	_	100
9-11	Instal Efficient Irrigation Technology (1 pt.) in conjunction with a collection system (1 pt.)—50% of irrigation needs; 2 pts. for all;	3	1103
	Show 30 shi Water Managament year, 3. Europe, water efficient (intgation bystonic, service, resignation, micro corp fixed by their set England and Survival and European Survival Sur		
6-12	Provide a list of drought tolerant plants and a copy of the local municipality mater usage guide to homebuyers with storing pockage.	1	
	Most receipt Allian provide a guala that guala that calair sequence of the interpretation and groups. When properly excipate, bridging receive can supplicately community to what compared on	1 22-	
8-15	Rinkon lawybuf to 50% of landscaped area.	1	. 4
	Communicate a large annual of vider to moreon, toy working the exhaust of lains, vider use can extend be returned.		
6-14	Builder captures rainwater for use in atrium, patio garden feature and/or landscaping.		13
0-15	Greywater is collected, treated and reused throughout the project		
	TOTAL SECTION FORTS	13	
		-	
7-1	Products used for the project are manufactured within 800 km. (1 pt. for each product to a max. of 5 products).	5	1108
	Product state to the scatter of one of the scatter of one of the most energy beautiful to beautiful to the state of the most energy used to be a state of the scatter of the most energy used to be a state of the scatter of the scatt		
7+2	Builder provides Built Green homeowner manual and/or educational walkthrough and/or Green systems manual for building managers.	2	.2
	However add after 6 any motion composed to any high performance and they fifthe activities in and asset complete, 6 will describ the efficiency.		
7-3	Builders office and show homes purchase a minimum of 50% (1 pt.) up to 100% (2 pts.) solar, wind or renewable energy.		1102
	NOTE COMPANY A PROPERTY WAS TO PROVIDE A REAL PROPERTY OF THE		
Fel	Manufacturers and/or exposers purchase 50% or more solar what or rememble electricity.  With therefore a sterior expressions energy (man emissions penel the energy-set).	$\overline{}$	
7-01	Builder supplies a minimum of 8" of topsoil as finan grading throughout site.  Sensor the street country, report specify her higher aggregate shallby long-build so site, and more formable you are distribution within	$\Box$	1
74	Development sits provides community amen'ty space for not for profit community services.  The latest matters to the City to relating out to the community services.	2	1
2.7	Development site provides for Publically Accessible Private Space .	1	19
	to Atlanti, loan tronjetti eit setch as pat ettia secuntir prijettisi nota bischmu publi attaut.	_	
7-8	Development includes a diversity of housing types including 20% live/work units (2pts.), 25% miles use (2 pts.) facilities and/or 20% with separate basement suite units (2pts.).  This type of newtypoint entitioned entitles in equilibration where proper yet line, equilibration in the original building.	2	744
7-8	Builder has written environmental policy which defines their commitment (which must include an office recycling program and energy efficient lighting)	t-	- 0
2.10	Manufacturer and/or supplier has a written environmental policy which defines their commitment (this must include an office recycling program and energy efficient lighting) (1 pt. per supplier/manufacturer, max. of 2 pts.).	2	1162
	Dirty burness off when commiss to the entrapeed help is proving to being the performance of the party.		
7-11	. [2] (10.50) [2] (10.40) [2] (2] (2] (2] (2] (2] (2] (2] (2] (2] (		1
6433	Builder has written an environmental poscy which promittee milestones for future net zero housing developments.  The net pay freent stong our science or remisterable energy is not not a housing for soon housing profession as not a long or may remiste.		1
	using revenieble brunner sum as book meeting color, generalings en-		

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7-12	Make provision Truck Management Plan, to avoid high congestion areas during construction.	1
	A hast expression of the could extend the begand of busto in the speciment or expression of Paytons include attended actions/topical actions of materials to reduce that the trade of materials to reduce that the payton of the payton of the following of the payton of the designation.	
7-13	Delivery Area wheel washed treated during construction.  Wheel with and will sell devel an dust privilege in the neighborhood where construction is being place.	1
7-14	Builder's company vehicles are hybrid or bio-diesel vehicles (1 pt, per vehicle to max, of 2 pts.).  A common strong enumeration of a second common strong a nyellol section produces common sections. Section common sections are common sections.	
7-12	Builder uses radiantly supplied cold weather construction practice. Propers having and large are after meditant, this results is a good deal of sealed energy sales indusing the quality of seatmentals. Alternatives, and profess is analyticating collegionality and sea.	
7-16	Environmental certification for builders place of business (building, office etc).  Very patronical habiting have been soled with sector arrange efficiency shoulded. Dues past participally sook within an ENCHOT \$1544 or \$200 softest place buildings.	
7.17	Builder agrees to construct and tabel a min, of 50% of all projects to the Built Green ** standard per calendar year, (3 gta. for 50% or 5 pts. for 100%).	
	A superficient to the professor of their techniques are expected every efficiency exposure to a large number of two access and other techniques. Heavy final three project that is half to a reduction or maked one, a reduction of great house past accounts, two costs and define efficiency.	
7-18	Contracted trades and/or suppliers have successfully taken Built Green ** Builter Training (1 pt. per company, max 3 pts.)	
	Chiral holes as sugglets who have equivalidity fallets (Bull Dawn Sulber Tuinning means that have in common indestinating about what havely is be done and have the fill be assumptioned, streamining the process.	
	TOTAL SECTION POINTS	17
	TOTAL CHECKLIST POINTS	207