

CDZ #21 - COUNCIL WORKSHOP (March 29th, 2010)





KELOWNA'S DOWNTOWN

Rethinking...

Remaking...

Reinventing...





TODAY'S AGENDA

- Historical Context
- The Concept
- Public Consultation & Process
- The Detail / Mechanics
- Previous Areas of Interest
- Q & A



AGENDA - APRIL 26^{TH} 2010

New Areas of Interest (Council):

- Heritage value of Additional Buildings
- Closure and Consolidation of Mill St.
- 2030 OCP Growth Projections in D/T (with mapping)
- Amenity Cost Sharing (across D/T)
- Direct Land Owner/Council Discussion Options
- Greater Economic Impact of Hotel





A BRIEF HISTORY





PREVIOUS INITIATIVES

- Parking Relief Incentive
- Tax Relief Incentive
- D/T Streetscape Initiative
- Gospel Mission Relocation
- Downtown Plan
- Way Finding Sign Program
- Dumpster Removal Program
- Downtown Task Force
- Entertainment Task Force
- City Land Assembly





ZONING COMPREHENSIVELY

- What are the benefits?
- What does it mean?





THE TOOL (CD ZONE)

- 1. Ensure Complementary Uses
- 2. Foster Amenity Creation (\$22 million)
- 3. Infrastructure Cost Sharing
- 4. Parking Efficiency & Active Streets
- 5. Determine Appropriate Massing





THE TOOL (CD ZONE)

- 6. Preserve View Corridors & Solar Access
- 7. Create Certainty
- 8. Quality of Design Controls
- Supports sustainable design –
 Social, Economic & Environmental





GUIDING OUR PATH

The Principles:

- 1. Enhance Kelowna's identity nationally and internationally
- 2. Improve Downtown's presence as Kelowna's principle urban centre
- 3. Develop a viable mixed use community of live, work and play for residents and visitors.
- 4. Develop a safe environment by providing more eyes and ears on the streets.
- 5. Incorporate sustainable design principles
- 6. Expand community amenities



The Principles Continued:

- 7. Create a community feel integrated with adjoining parks and Culture District.
- 8. Engender housing diversity downtown with housing types and tenures that include affordable and special needs housing.
- 9. Respect the area's Heritage assets.
- 10. Contribute to a share of downtown amenities as a condition of development
- 11. Honour the City's agreement with the Province for vehicle movement to and from the new Bill Bennett Bridge.
- 12. Catalyst redevelopment through the remainder of downtown.



Fall 2008

THE PUBLIC PROCESS



THE HIGHLIGHTS

- Some assembly required
- Density Bonusing
- Amenities <u>**</u>
- Heritage
- Existing C7





A COMMUNITY VISION





ENVISIONING FUTURE PERSPECTIVES FOR KELOWNA









1. Enhance Kelowna's identity

2.Downtown as Kelowna's principal urban centre

3. Viable mixed use community residents and visitors.

4.Safe environment eyes and ears on the streets.

5.Incorporate **sustainable** design principles

6.Expand community amenities

7.Community integrated Parks and Culture District.

8.Engender **housing diversity** downtown

9.Respect the area's **Heritage** assets.

10.**Contribute** to downtown amenities

11.City/Provincial agreement for **vehicle movement**

12.**Catalyst redevelopment** through downtown



























GUIDING DESIGN PRINCIPLES

block structure







Principle 3:

Connect Mill to Lawrence to redirect traffic from waterfront edge



boundary influences









Principle 6:

Optimise Kelowna sunshine





GUIDING DESIGN PRINCIPLES

urban place making

Principle 7:

Enhance diagonal pedestrian and vehicular patterns



Principle 8: Create a series of linked, memorable urban places



Principle 9:

Knit public realm with a **procession** of focal points



integrated continuity



Principle 12:

Reinforce heritage to serve the future













- Open House
 Sept 2007
- Open House Nov 6th 2007
- Property Owners' Workshop Dec 2007
- Council Presentation Feb 11th 2008
- Council & Community Workshops March 17th & 31st 2008
- Open House May 7th 2008
- Advisory Planning Commission June 25th 2008











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ITERATIVE PUBLIC CONSULTATION PRODUCT











SUSTAINABILITY - THE DRIVER







"something happens because something happens because something happens" Jan Gehl



WHAT SUSTAINS THE HERE, HERE?



C7

Automobile Priority

"get me out of here"

CDZ

Pedestrian Priority

"meet me here"



VIEW UP CLOSE- urban amenity for all



Grocery Store + Community Room







VIEW FROM AFAR - sustaining public health







HOW TO GET THERE









BUILDING FORM:

UNDERSTANDING HEIGHT & VOLUME

C7 Potential Build-out







CD = CALIBRATING DETAIL














TRAFFIC AND SUNSHINE



3:00 PM

HEIGHT, VOLUME + SUNLIGHT

Water

10:30 AM





morning

welcome



0.046

afternoon filter



COMMUNITY AMENITY MATRIX

Streetscape & public plaza construction

- Increase of acreage of urban park High quality functional public space
- Indoor public space
 - Daycare
 - Multi-use facility (senior/youth/meeting)
- Public pier with day/commercial moorage
- Children's playground
- Public washroom facility







ECONOMIC AMENITIES

(OR HOW TO PAY FOR THE PUBLIC GOOD)

Feedback loop City, public, and development community

+

Identify development incentive as catalyst for positive change

Enable economic feasibility & return benefit to the public



Proposed Net Floor Area

FAR calculation as per Kelowna Zoning Bylaw standards

Sub Area Floor Ai	rea Calculator	CD 21 Base Density	CD 21 Base Density + Amenity Density	
11-Sep-08		Floor Area, Net	Floor Area, Net	
OPTION 18A		sq ft	sq ft	
SUB AREA 1	Total Net Floor Area	166,339	332,677	
SUB AREA 2	Total Net Floor Area	39,697	79,394	
SUB AREA 3	Total Net Floor Area	163,197	326,394	
SUB AREA 4	Total Net Floor Area	108,871	217,741	
SUB AREA 5	Total Net Floor Area	132,850	265,699	
SUB AREA 6	Total Net Floor Area	99,056	198,112	
SUB AREA 7	Total Net Floor Area	89,321	178,641	
SUB AREA 8	Total Net Floor Area	181,962	363,925	
SUB AREA 9	Total Net Floor Area	190,519	381,037	
Total Net Floor Ar	ea - CD 21	1,132,114	2,343,622	





C7 Existing Zoning (potential build out)



C7 YIELD		Site Area Area 2	Area 2	"Other Area"	Fully assembled		Not assembled	
		Section and	44m max ht	22m Max ht	GFA	FAR	GFA	FAR
Sub Area 1A	1A1	31,454		YES	94,363	3.0	94,363	3.0
Remains as C7		31,454			94,363	3.0	94,363	3.0
Sub Area 1B	181	24,104		YES	72,313	3.0	72,313	3.0
	182	6,963	(a)	YES	13,925	2.0	13,925	2.0
9	Total	31,067			86,238	2.8	86,238	2.8
Sub Areas 2A + 2B	2A1	27,756	2 - 22 4 2	YES	83.267	3.0	77,263	2.8
	2A2 + 2B1	55,152	0.000	YES	165.456	3.0	153,448	2.8
	2A3 +2B3	41,987	YES	-	209,935	5.0	173,911	4.1
	2B2	10,773	1.00	YES	21.547	2.0	15,543	1.4
221	Total	135,668			480,205	3.5	420,165	3.1
Sub Areas 3A + 3B	3A2 + 3B1	35,919	YES		179.595	5.0	143,571	4.0
	383	-	1000	YES				-
	3A3 + 3B2	55,134	YES	-	275.670	5.0	239,646	4.3
	3A1	31,133		YES	93,399	3.0	87,395	2.8
	Total	122,186		2	548,664	4.5	470,612	3.9
Sub Area 4	4A1	28,937	-	YES	86,810	3.0	80,806	2.8
	4A2	54,334	YES	0.000	271,669	5.0	253,657	4.7
	4A3	48,341	-	YES	145,023	3.0	139,019	2.9
Total		131,611			503,502	3.8	473,482	3.6
Total 420,532					1.618.609	3.8	1.450,497	3.4





C7 to CDZ (equitable enhancement)



PREVIOUS AREAS OF INTERESTS

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HERITAGE INTERESTS









PROTECTED HERITAGE UNDER PROPOSED ZONE









GROUNDING THE PLAN - HERITAGE





Heritage Context





Proposed CD zoning

Existing C7 zoning





Legacy Tools

- Preserve historic scale of street enclosure
- Improve C7 sunlight to north side of street
- Pool increased density to south of block
- Waive commercial ground level parking







Heritage Context







SITE PREPARATION



SITE PREPARATION

- Soil settlement plan
- Property impact/mitigation plan
- Floodplain management plan







Site Preparation - Land Use Configuration



Underground Level

Grade Level

Level 3



Site Preparation - Geotechnical Configuration



building cross section



Site Preparation - Heritage Configuration





Site Preparation - Solar Access Configuration

September 20





RESIDENTIAL AT STREET LEVEL





LAND EXCHANGES



LAND EXCHANGES





PARK ENHANCEMENT

8

ROYAL TRUST SITE



PARK ENHANCEMENT









PARK



ENHANCEMENT



PARK ENHANCEMENT (ROYAL TRUST SITE)









PARK ENHANCEMENT-

and use synergy

benefit.

comfort & safety

public amenity:







PARK ENHANCEMENT-

and use synergy









PARK ENHANCEMENT-

and use synergy

benefit.

comfort & safety

public amenity

















Opportunity for public benefit without commitment or obligation




PARK ENHANCEMENTbalancing 'centre' and 'edge'







Kerry Park & Royal Trust site (existing)

THE ECONOMICS



Kerry Park & Royal Trust site (proposed)





THE ECONOMICS

Downtown CD-21 Zone



Kerry Park & Sails Plaza



HOTEL ECONOMICS

EMPLOYMENT

<u>During Construction</u>485 jobs (364 full-time)

Permanent Ongoing

• 229 jobs (172 full-time)





HOTEL ECONOMICS

THE NUMBERS

- Construction \$31. 6 million
 (w/ multiplier = \$53 million)
- Const. tax revenue \$4.9 million (Prov., Fed. & Municipal)
- Operating tax revenue \$1.5 million (Annual ongoing Prov., Fed. & Municipal)
- Hotel tax revenue \$440k
 (Annual ongoing & payable to CoK)





HOTEL ECONOMICS

OTHER BENEFITS

- ~165 Additional Rooms
 Downtown
- 12,000 15,000 Sq Ft. of conference space
- Additional food & beverage venues
- Anchor & traffic generator for downtown redevelopment



THE GREATER DOWNTOWN - C7



THE GREATER DOWNTOWN



BUILDING FORM:



UNDERSTANDING HEIGHT & VOLUME





Test: Lawrence from east of Water







kelowna.ca



BUILDING FORM:

UNDERSTANDING HEIGHT & VOLUME





Test: Bernard from east of Pandosy





DISTRICT ENERGY



DISTRICT ENERGY

PERCEPTION

- 1. Out of sight
- 2. Minimal land required
- 3. Simple operation
- 4. Cost neutral
- 5. Automated





REALITY

- 1. City infrastructure
- 2. Conflicting land use
- 3. Central site
- 4. Complex
- 5. High capital costs



South East False Creek - District Energy







- The NEU is a community energy system to supply space heating and domestic hot water to all buildings within SEFC.
- Three components:
 - Energy Centre
 - Distribution Pipe
 - ETS

CHALLENGES

- Timeline
- Start-up Capital
- Working with developers unfamiliar with district energy
- Gaining public acceptance for Community Energy Centre development



North Vancouver - District Energy

North Vancouver LEC Lessons learned

Hybrid utility service models a viable option for delivery of distributed energy Open/expandable model allows for innovation, mitigates development and operational risk, and optimizes expertise, ingenuity, and rigour in the delivery of community service.

Municipalities can encourage uptake of district energy through planning practices.

Process identified sites with high demand for heating/cooling and need for contractual obligations with builders purchasing City-owned land to connect to district energy. Rezoning for development on City-owned lands requires connection to the LEC as other municipal infrastructure, such as sidewalks, roads, sewer and stormwater management.

High-performing district energy demands a new approach to building design. Accurately model efficiency of a district with detailed guidelines for developers' design teams to implement infrastructure, design & controls for connection to district energy system.

How the Lonsdale system works:



Basic Information

Building type served: residential and commercial Building area served: 600,000 ft² Location: City of North Vancouver, British Columbia Service begins: 2004 Utility Company: Lonsdale Energy Corporation Technology: Seven Viesmann condensing high efficiency boilers Production capacity: 6 MW Fuel type: Natural gas Distribution system: Hot water uses thin-walled steel pipe insulated with PUR insulation





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COMMUNITY COSTS



COMMUNITY COST (ZERO)

Development Cost Charges (DCCs)

No impact

Utilities & Other Infrastructure

No impact



SUSTAINABILITY



SUSTAINABILITY -THE OVERARCHING PRINCIPLE



Sustainability Menu

- LEED ND for Neighbourhoods
- Pedestrian focus
 walking/biking/connections
- Transit relationship (BRT)
- Parking convertible/reduction/creativity
- Active rooftops



SUSTAINABILITY - THE MEASURABLE

LEED for Neighbourhood Development

Project Number: 55907 Project Name: Kelowna CD-1 Urban Plan Date:March 24, 2008

		/	an PA'	à.5	13b	Points
Prerequis	ite or Credit	/ st	10 potent	20int AS	iner i	Comments to Achieve Level
Smart L	ocation & Linkage					
Prereq 1	Smart Location	1		Y	NA	Infill site - close to centre of Region's transit system
Prereq 2	Proximity to Water and Wastewater Infrastructure	1		Y	NA	Existing core civil infrastructure adequate for buildout.
Prereq 3	Imperilled Species and Ecological Communities	1		Y	NA	No imperilled species expected
Prereq 4	Wetland and Water Body Conservation	1 or 2		Y	NA	If at flood plain level then demonstrate urban mapping
Prereq 5	Agricultural Land Conservation	2		Y	NA	Urban Infill
Prereq 6	Floodplain Avoidance	2		Y	NA	Urban Infill
Credit 1	Brownfield Redevelopment		2	N	0	Not a brownfield
Credit 2	High Priority Brownfields Redevelopme	nt	1	N	0	Not a brownfield
Credit 3	Preferred Locations		2-10	Y	9	guesstimate of at least 30 miles of centreline miles/ sq mile within 1 mile radius
Credit 4	Reduced Automobile Dependence		1-8	Y	4	guesstimated of 100 transit rides per week day within 1/4 mile of 50% of building entrances
Credit 5	Bicycle Network		1	Y	1	Diverse use mix adjacent + bike for 15% of car capacity
Credit 6	Housing and Jobs Proximity	1	3	Y	3	within 1/2 mile of pre-project jobs >50% dwelling units
Credit 7	School Proximity		1	Ν	0	distance to school to be confirmed
Credit 8	Steep Slope Protection		1	N	0	N/A
Credit 9	Site Design for Habitat or Wetlands Conservation	2	1	Y	1	native plants for 90% of vegetation
Credit 10	Restoration of Habitat or Wetlands		1	N	0	May be covered in Park design
Credit 11	Conservation Management of Habitat or Wetlands		1	N	0	May be covered in Park design
	Smart Location & Linkage		30		18	

1.3/////

		otion	oints	hieval	en po
Prerequisi	te or Credit	0 / 20	YP	$/ \vee$	Comments to Achieve Level
Neighbo	rhood Pattern & Design		_	_	
Prereq 1	Open Community		Y	NA	No gated areas
Prereq 2	Compact Development		Y	NA	Develop above minimum densities: 7u/ac, 0.5 FAR commercial
Credit 1	Compact Development	1-7	Y	6	5.6 Res + 0.4 Comm on area table
Credit 2	Diversity of Uses	1-4	Y	4	Ten qualifying uses within 1/2 mile
Credit 3	Diversity of Housing Types	1-3	Y	2	Estimated Simpson diversity index of 0.6
Credit 4	Affordable Rental Housing	1-2	Ν	0	City demographic calculation required
Credit 5	Affordable For-Sale Housing	1-2	Ν	0	City demographic calculation required
Credit 6	Reduced Parking Footprint	2	Y	2	No visible surface lots, and 10% bike & carpool
Credit 7	Walkable Streets	4-8	Y	8	Extensive urban design criteria to be met
Credit 8	Street Network	1-2	Y	2	Street grid density above 30 centreline mi. per sq. mi.
Credit 9	Transit Facilities	1	Y	1	Safe, illuminated transit stops with information
Credit 10	Transportation Demand Management	2	?	0	Achievable but subject to transit policy
Credit 11	Access to Surrounding Vicinity	1	Y	1	Through-street every 800 feet max
Credit 12	Access to Public Spaces	1	Y	1	1/6ac park within 1/2 mi. of 90% of dwellings
Credit 13	Access to Active Public Spaces	1	Y	1	1ac park within 1/2 mi. or bikeway within 1/4 mi or
					gym/rec.centre within 1/4 of 90% of dwellings
Credit 14	Universal Accessibility	1	Y	1	20% accessible housing of all types
Credit 15	Community Outreach and Involvement	1	Y	1	Active public participation required in all phases
Credit 16	Local Food Production	1	?	0	Possible to provide growing space/ community gardens
	Neighborhood Pattern & Design	. 39		30	

51 2/2/

LEED ND (Neighbourhood Development)

/ / /]

Prerequis	ite or Credit	/ 8`'	‱ %	1	1	Comments to Achieve Level
Green C	onstruction & Technology				<i>.</i>	, ,
Prereq 1	Construction Activity Pollution			Y	NA	Prevent erosion, sedimentation, air and water pollution
	Prevention					during construction
Credit 1	LEED Certified Green Buildings		1-3	?	0	LEED certification for 20-40% of buildings
Credit 2	Energy Efficiency in Buildings		1-3	?	0	90% of buildings energy efficient over ASHRAE or ENERGY STAR. Conduct whole builidng energy simulations - various compliance paths
Credit 3	Reduced Water Use	2	1-3	Y	1	Point for nonpotable or eliminating irrigation
Credit 4	Building Reuse and Adaptive Reuse		1-2	Y	2	Re-use 50% of 1 build (measured on surface area) + equiv of 2nd
Credit 5	Reuse of Historic Buildings		1	Y	1	Incorporate 1 Historic Building
Credit 6	Minimize Site Disturbance through Site Design		1	Y	1	development footprint is 100% previously developed
Credit 7	Minimum Site Disturbance during Construction		1	Y	1	development footprint is 100% previously developed
Credit 8	Contaminant Reduction in Brownfields Remediation		1	N	0	Not a browfield site
Credit 9	Stormwater Management		1-5	?	0	Safest to assume infiltration rates not achievable with
Credit 10	Heat Island Reduction	1	1	Y	1	50% parking spaces under cover
Credit 11	Solar Orientation		1	Ν	0	Unrealistic criteria based on east-west orientation
Credit 12	On-Site Energy Generation		1	N	0	5% of project's electrical requirements generated on site with low CO2.
Credit 13	On-Site Renewable Energy Sources		1	N	0	5% of project's electrical requirements generated on site through renewable sources
Credit 14	District Heating and Cooling		1	N	0	80% connected to district heating and cooling achieving 80% of need
Credit 15	Infrastructure Energy Efficiency		1	?	1	all district lights, pumps, and treatment systems perform 15% better than baseline
Credit 16	Wastewater Management		1	Ν	0	Divert 50% of wastewater, provide onsite treatment
Credit 17	Recycled Content in Infrastructure		1	?	1	90% recycled aggregate in concrete, 25% fly ash, or equivalent for roads, parking lots, sidewalks and curbs
Credit 18	Construction Waste Management		1	Y	1	Reduce or salvage 50% of construction debris not land- clearing or excavation
Credit 19	Comprehensive Waste Management		1	?	0	2 of 3: Hazardous materials dropoff, recycling and reuse station, compost station
Credit 20	Light Pollution Reduction		1	?	1	Light to minimums of safety and comfort. Light infiltration maximums per project IESNA zoning
	Groon Construction & Toohnology		31		44	

		10	A JH	15 /	ilevab	a sta
Prerequisi	te or Credit	<u>/8``</u>	2 P 201	/ *	21. 1.	202 Comments to Achieve Level
Innovatio	on & Design Process					
Credit 1	Innovation in Design		1-5	Y	1	Requires exceptional performance under any credit or
						innovation
Credit 2	LEED Accredited Professional		1	Y	1	LEED Professionals on team
	Innovation & Design Process		6		2	
	Project Number: 55907 Project Name: K	elown	a CD-1 l	Jrban	Plan	Date:March 24, 2008
		106		61		

Certified: 40-49 points; Silver: 50-59 points; Gold: 60-79 points; Platinum: 80-106 points

PRELIMINARY CHECKLIST



SUSTAINABILITY - THE MEASURABLE?

LEED for Neighbourhood Development

Project Number: 55907 Project Name: Kelowna CD-1 Urban Plan Date: March 24

Prerequisite or Credit

Smart Lo	ocation & Linkage					
Prereq 1	Smart Location	1		Y	NA	Ir
Prereq 2	Proximity to Water and Wastewater Infrastructure	1		Y	NA	E
Prereq 3	Imperilled Species and Ecological Communities	1		Y	NA	N
Prereq 4	Wetland and Water Body Conservation	1 or 2		Y	NA	lf
Prereq 5	Agricultural Land Conservation	2		Y	NA	U
Prereq 6	Floodplain Avoidance	2		Y	NA	U
Credit 1	Brownfield Redevelopment		2	Ν	0	Ν
Credit 2	High Priority Brownfields Redevelopme	nt	1	Ν	0	Ν
Credit 3	Preferred Locations		2-10	Y	9	g m
Credit 4	Reduced Automobile Dependence		1-8	Y	4	g m
Credit 5	Bicycle Network		1	Y	1	D
Credit 6	Housing and Jobs Proximity	1	3	Y	3	w
Credit 7	School Proximity		1	Ν	0	di
Credit 8	Steep Slope Protection		1	Ν	0	Ν
Credit 9	Site Design for Habitat or Wetlands Conservation	2	1	Y	1	n
Credit 10	Restoration of Habitat or Wetlands		1	Ν	0	Ν
Credit 11	Conservation Management of Habitat or Wetlands		1	N	0	N
	Smart Location & Linkage		30		18	Г
						-

Neighborhood Pattern & Design Compact Development

Credit 1	Compact Development	1-7	Y	6	5.6
Credit 2	Diversity of Uses	1-4	Y	4	Τe
Credit 3	Diversity of Housing Types	1-3	Y	2	Es
Credit 4	Affordable Rental Housing	1-2	Ν	0	Ci
Credit 5	Affordable For-Sale Housing	1-2	Ν	0	Ci
Credit 6	Reduced Parking Footprint	2	Y	2	No
Credit 7	Walkable Streets	4-8	Y	8	Ex
Credit 8	Street Network	1-2	Y	2	St
Credit 9	Transit Facilities	1	Y	1	Sa
Credit 10	Transportation Demand Management	2	?	0	Ac
Credit 11	Access to Surrounding Vicinity	1	Y	1	Th
Credit 12	Access to Public Spaces	1	Y	1	1/6
Credit 13	Access to Active Public Spaces	1	Y	1	1a gy
Credit 14	Universal Accessibility	1	Y	1	20
Credit 15	Community Outreach and Involvement	1	Y	1	Ac
Credit 16	Local Food Production	1	?	0	Pc
	Neighborhood Pattern & Design	39		30	



hood Development

	PON	NS AS	hie we	goint Comments to Achieve Level
			·	•
		Y	NA	Prevent erosion, sedimentation, air and water pollution
				during construction
	3	?	0	LEED certification for 20-40% of buildings
	3	?	0	90% of buildings energy efficient over ASHRAE or
9				ENERGY STAR. Conduct whole builidng energy
2				simulations - various compliance paths
	3	Y	1	Point for nonpotable or eliminating irrigation
	2	Y	2	Re-use 50% of 1 build (measured on surface area) +
1 1				equiv of 2nd
		Y	1	Incorporate 1 Historic Building
1		Y	1	development footprint is 100% previously developed
\$ 57		Y	1	development footprint is 100% previously developed
		N	0	Not a browfield site
	5	?	0	Safest to assume infiltration rates not achievable with
		Y	1	50% parking spaces under cover
		Ν	0	Unrealistic criteria based on east-west orientation
		Ν	0	5% of project's electrical requirements generated on site with low CO2
		Ν	0	5% of project's electrical requirements generated on site
				through renewable sources
		N	0	80% connected to district heating and cooling achieving 80% of need
		?	1	all district lights, pumps, and treatment systems perform
	_			15% better than baseline
		N	0	Divert 50% of wastewater, provide onsite treatment
		?	1	90% recycled aggregate in concrete, 25% fly ash, or
				equivalent for roads, parking lots, sidewalks and curbs
		Y	1	Reduce or salvage 50% of construction debris not land- clearing or excavation
		?	0	2 of 3: Hazardous materials dropoff, recycling and reuse
	_			station, compost station
		?	1	Light to minimums of safety and comfort. Light infiltration
				maximums per project IESNA zoning
	_		11	[
		/		8//
	V	.5 /	, ab	a d
	in	N/3	U. He	Comments to Achieve Level
	×.	/ 4	/~	
	5	Y	1	Requires exceptional performance under any credit or
				innovation
		Y	1	LEED Professionals on team
	-		2	
	11	Irhan	Plan	Date March 24, 2008

PRELIMINARY CHECKLIST

Prerequisite or Credit

Open Community

LEED ND Grand Total:

PRELIMINARY CHECKLIST

Certified: 40-49 points; Silver: 50-59 points; Gold: 60-79 points; Platinum: 80-106 points

106

61



GETTING THERE









GETTING THERE







GETTING THERE





KEYS TO SUCCESS

Planning Expertise +The Right Tools Supportive Council +Committed Development Community ╋ Engaged Citizens





Kelowna Downtown Rethinking, Remaking, Reinventing

kelowna.ca



RESOLUTION

In receive report for information

kelowna.ca

