



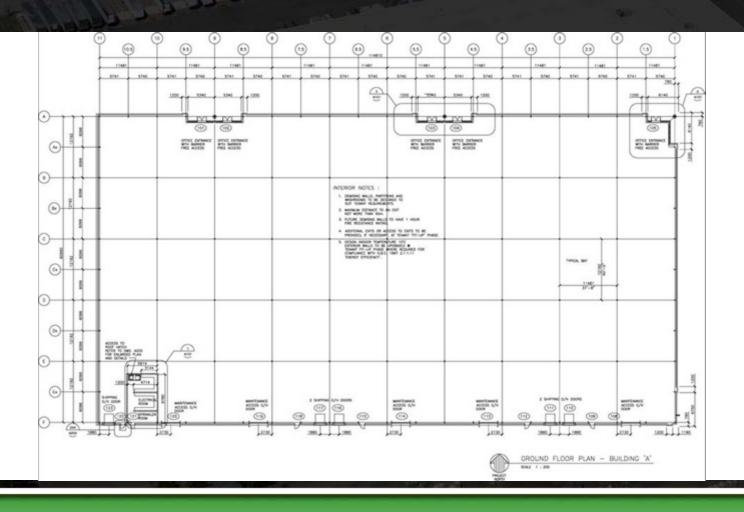




Lease Solution EXISTING BUILDING



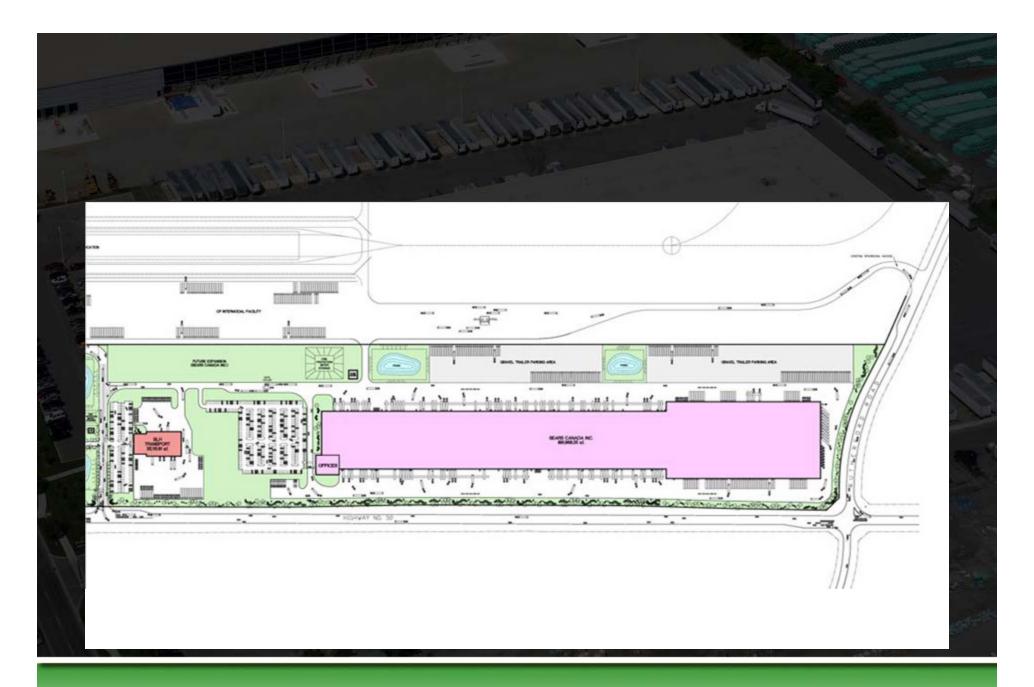
10,000 sq. ft. or more



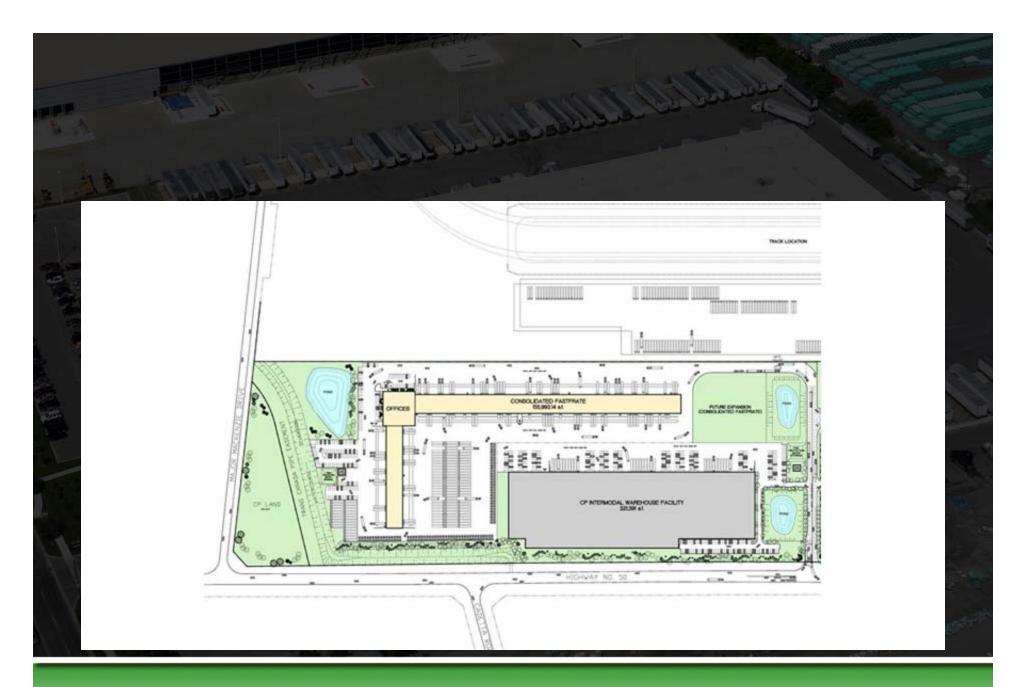


Types of Facilities









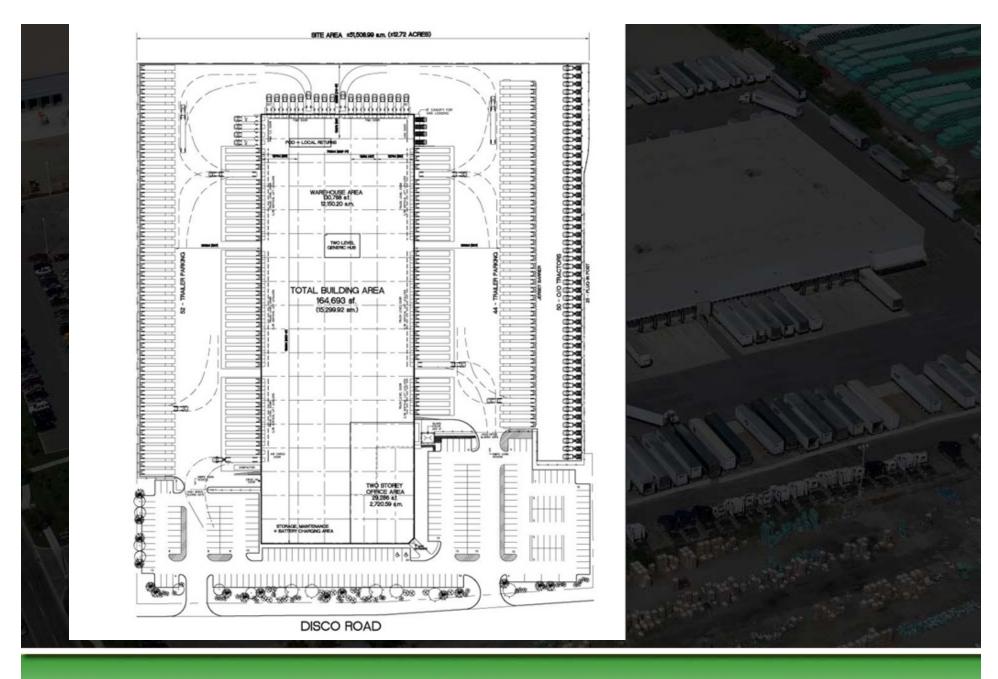














Concept Development The consultant can supply the broker/client: - Facility Planning Right Sizing Budgeting Layout Assistance Sometimes the work is confidential perhaps frustrating to vendors element of trust

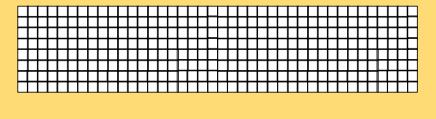


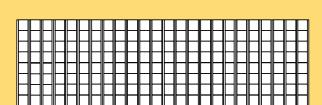
The Structure Precast concrete walls Flat built-up membrane roof, R20 28 feet clear to underside of joists (depends on footprint of building) 4 to 5 pallets high 7 inch concrete floor with or without fibre reinforcing (loading) Sealed with a penetrating floor sealer



Concept Development

Relative Space Requirements Alternative Storage Medium





3 high bulk stack

960 pallet spaces 4,433 sq ft

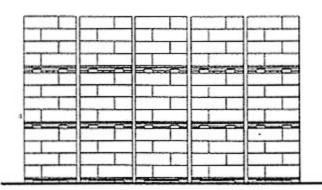
5 high standard pallet rack

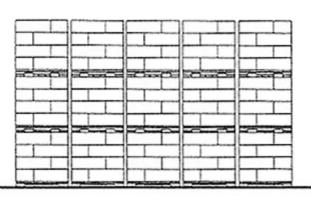
960 pallet spaces 4,992 sq ft

5 high drive-in rack 960 pallet spaces 3,478 sq ft



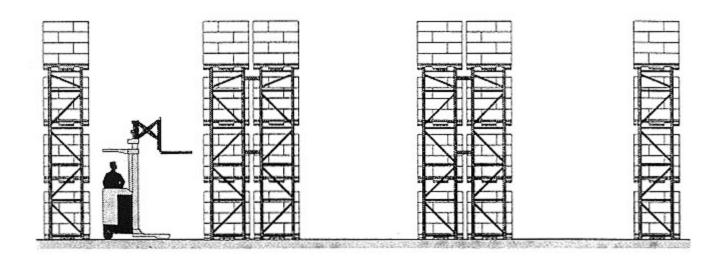
BULK FLOOR STACKING





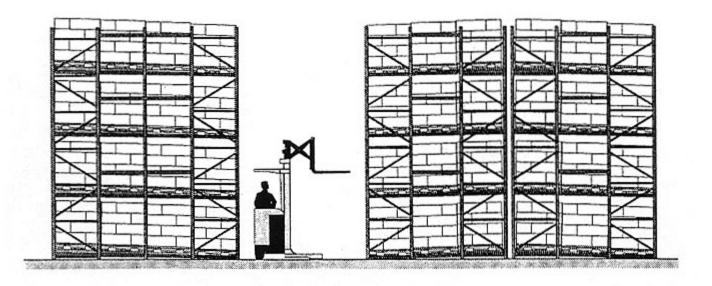


STANDARD SELECTIVE RACK





PUSHBACK RACKING



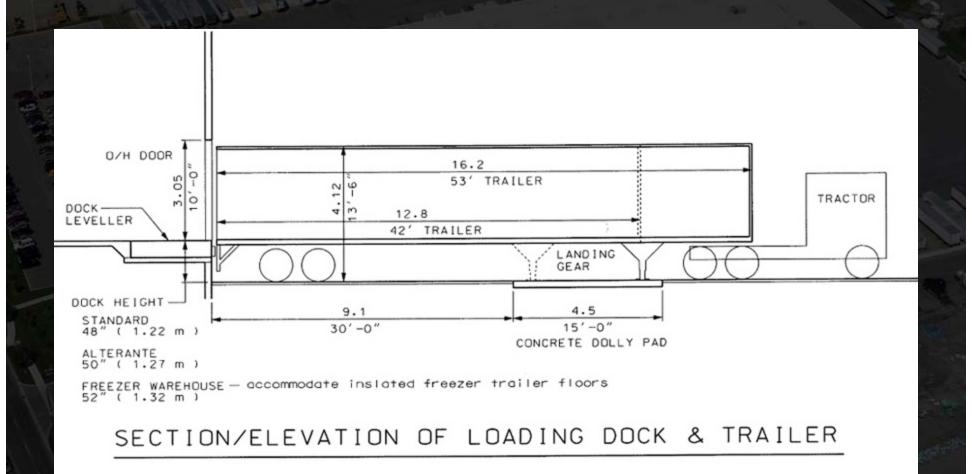


Shipping Doors

- All doors to be 9 ft. x 10 ft.
- Shelters or seals at doors
- Dock levelers to be electric, hydraulic rated at minimum 27,000 lbs. with 18 inch lip
- Wheel chocks
- Protective bollards each side of doors (typically on drive in doors only)
- Truck articulated lights at each door
- Optional Truck restraints, back up lighting package, inflatable seals, power doors



Dock Heights













The Building

- 20,000 sq. ft. up to 1,000,000 sq. ft.
- Travel depth becomes a factor, fire corridors (egress)
- Narrow Width or finger design cross dock
- Large quantity of Doors
- Bay Size
 - 38 ft. by 40 ft. Reach Trucks
 - 30 ft. by 40 ft Turret Trucks
- First bay behind shipping to be 60 to 70 ft. deep (marshalling)
- 120 ft. from truck doors to end of asphalt
- Concrete dolly pads 15 ft. wide or concrete truck apron 65 ft. deep



The Building Interior

- Protective bollards at doors, electrical equipment, all water and gas pipes
- Lighting at 35 FTC based on open concept until Racking configuration is known
- Battery charging area with floor drain (possible acid neutralizer) and power distribution
- Finished office area as required
- Optional Items Paint all interior walls, deck and structure, shipper's office, Truckers washrooms and secure area etc.



Mechanical, Electrical & Fire Protection

- Lighting 35 FTC open concept unless racking layout available
- Battery Charging Area power and panel to area
- Circulation Fans in Warehouse, usually 1 per 5,000 sq. ft.
- Unit Gas Fired Heaters most economical, however Infrared heating for dock doors often preferred
- ESFR Sprinkler system required for 28 ft. clear to u/s of deck



Quality Features of a Crossdock Fulfillment Centre

- Clear Span for facility typically 80 ft.
- Infrared heating due to constant door opening
- Dry Sprinkler system minimum temperature
- Palletized receipts inbound
- Less than pallet/case quantity outbound
- Possible in larger facilities
 - 3 level pick towers or cross dock conveyor systems
 - quick response pick lanes

















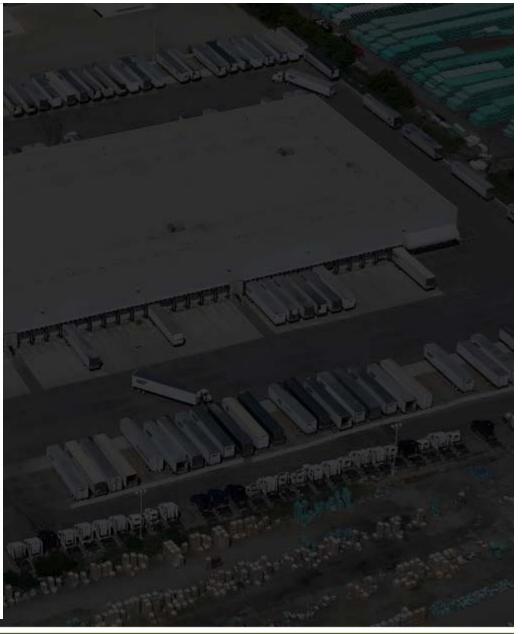




LEED for Core and Shell v2.0 Registered Project Checklist

Project Name: Project Address:

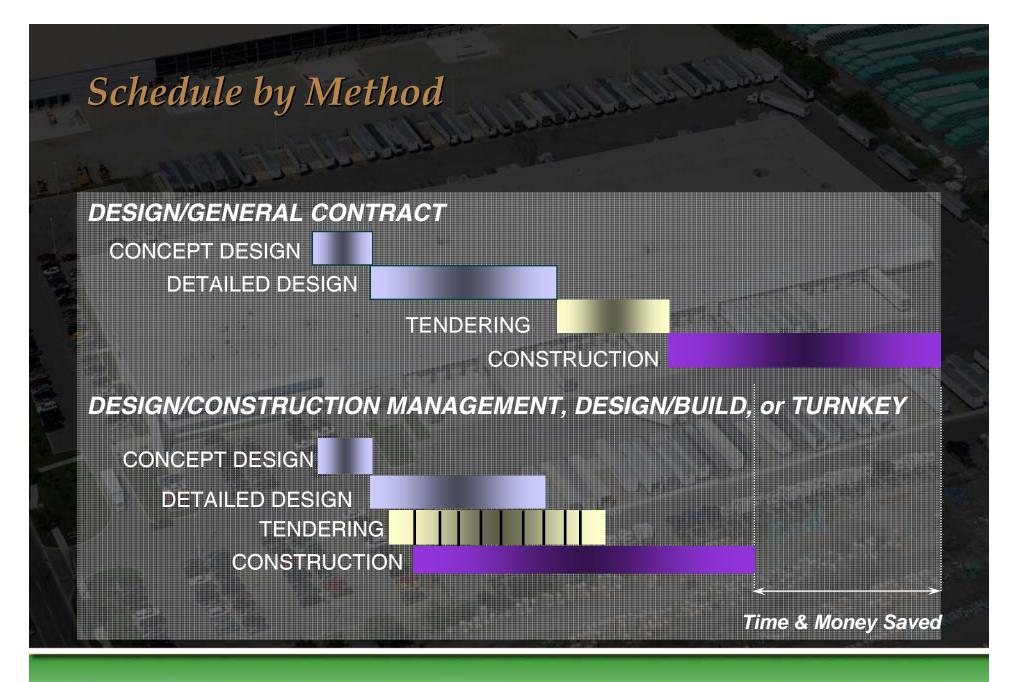
Yes	7 No			
6	1 8	Sustaina	able Sites	15 Points
IXI		Prereg 1	Construction Activity Pollution Prevention	Required
	1	Credit 1	Site Selection	1
	1	Credit 2	Development Density & Community Connectivity	1
	1	Credit 3	Brownfield Redevelopment	1
	1	Credit 4.1	Alternative Transportation: Public Transportation Access	1
1		Credit 4.2	Alternative Transportation: Bicycle Storage & Changing Rooms	1
1		Credit 4.3	Alternative Transportation: Low-Emitting and Fuel-Efficient Vehicles	1
1		Credit 4.4	Alternative Transportation: Parking Capacity	,
	1	Credit 5.1	Site Development: Protect of Restore Habitat	,
	1	Credit 5.2	Site Development: Maximize Open Space	1
1		Credit 6.1	Stormwater Design: Quantity Control	,
	1	Credit 6.2	Stormwater Design: Quality Control	1
	1	Credit 7.1	Heat Island Effect, Non-Roof	1
	1	Credit 7.2	Heat Island Effect, Roof	,
1		Credit 8	Light Pollution Reduction	,
1		Credit 9	Tenant Design & Construction Guidelines	,
4	7 No	Water Et	Miciency	5 Points
	_			
1		Credit 1.1	Water Efficient Landscaping: Reduce by 50%	,
1		Credit 1.2	Water Efficient Landscaping: No Potable Use or No Irrigation	1
	1	Credit 2	Innovative Wastewater Technologies	1
1	\perp	Credit 3.1	Water Use Reduction: 20% Reduction	,
1 Yes	, No.	Credit 3.2	Water Use Reduction: 30% Reduction	,
4	5	Energy 8	& Atmosphere	14 Points
EST.		Prereg 1	Fundamental Commissioning of the Building Energy Systems	Required
-		Prereg 2	Minimum Energy Performance	Required
Ÿ.		Prereg 3	Fundamental Refrigerant Management	Required
Those to	or EAct:		and Shell projects registered after June 20th, 2007 are required to achieve at least two (2) points under EAct.	riequies
3		Credit 1	Optimize Energy Performance	1 to 8
-	_		10.5% New Buildings or 3.5% Existing Building Renovations	
			14% New Buildings or 7% Existing Building Renovations	
			3 17.5% New Buildings or 10.5% Existing Building Renovations	
			21% New Buildings or 14% Existing Building Renovations	
			24.5% New Buildings or 17.5% Existing Building Renovations	
			28% New Buildings or 21% Existing Building Renovations	
			31.5% New Buildings or 24.5% Existing Building Renovations	7
			35% New Buildings or 28% Existing Building Renovations	
	1	Credit 2	On-Site Renewable Energy	,
	1	Credit 3	Enhanced Commissioning	,
	1	Credit 4	Enhanced Refrigerant Management	,
	1	Credit 5.1	Measurement & Verification - Base Building	,
	1	Credit 5.2	Measurement & Verification - Tenant Sub-metering	1
1		Credit 6	Green Power	1





	Yan 1	7 No		continued
-	4	7	Materials & Resources	11 Points
	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prereq 1 Credt 1.1 Building Reuse: Maintain 25% of Existing Walls, Floors & Roof Credt 1.2 Building Reuse: Maintain 50% of Existing Walls, Floors & Roof Credt 1.3 Building Reuse: Maintain 50% of Existing Walls, Floors & Roof Credt 2.1 Construction Waste Management: Divert 50% from Disposal Credt 2.2 Construction Waste Management: Divert 75% from Disposal Credt 3 Materials Reuse: 1% Credt 4.1 Recycled Content: 10% (post-consumer + ½ pre-consumer) Credt 4.2 Recycled Content: 20% (post-consumer + ½ pre-consumer) Credt 5.1 Regional Materials: 10% Extracted, Processed & Manufactured Regionally Credt 6.2 Regional Materials: 20% Extracted, Processed & Manufactured Regionally Credt 6 Certified Wood	Required
	4	7 No	Indoor Environmental Quality	11 Points
	Y Y Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prereq 1 Minimum IAQ Performance Prereq 2 Environmental Tobacco Smoke (ETS) Control Credt 1 Outdoor Air Delivery Monitoring Increased Ventilation Credt 2 Increased Ventilation Credt 4.1 Low-Emitting Materials: Adhesives & Sealants Credt 4.2 Low-Emitting Materials: Paints & Coatings Credt 4.3 Low-Emitting Materials: Carpet Systems Credt 4.4 Low-Emitting Materials: Composite Wood & Agrifiber Products Credt 5 Indoor Chemical & Pollutant Source Control Credt 6 Controllability of Systems: Thermal Comfort Credt 7 Thermal Comfort: Design Credt 8.1 Daylight & Views: Daylight 75% of Spaces Credt 8.2 Daylight & Views: Views for 90% of Spaces	Required Required
	3	2	Innovation & Design Process	5 Points
	1	1 1	Credt 1.1 Innovation in Design: Recycled Content Credt 1.2 Innovation in Design: Water Usage Credt 1.3 Innovation in Design: Credt 1.4 Innovation in Design: Credt 2 LEED® Accredited Professional	
	25	7 No 1 31	Totals (pre-certification estimates) Certified: 23 to 27 points, Silver: 28 to 33 points, Gold: 34 to 44 points, Platinum: 45 to 61 points	61







Benefits of Turnkey

- Costs estimated & guaranteed early in process
- Guaranteed delivery
- Non-adversarial approach between parties & owner
- Single point of contact
- Cost effective per functional square foot
- Fast-track potential
- Broader professional input early in process







