

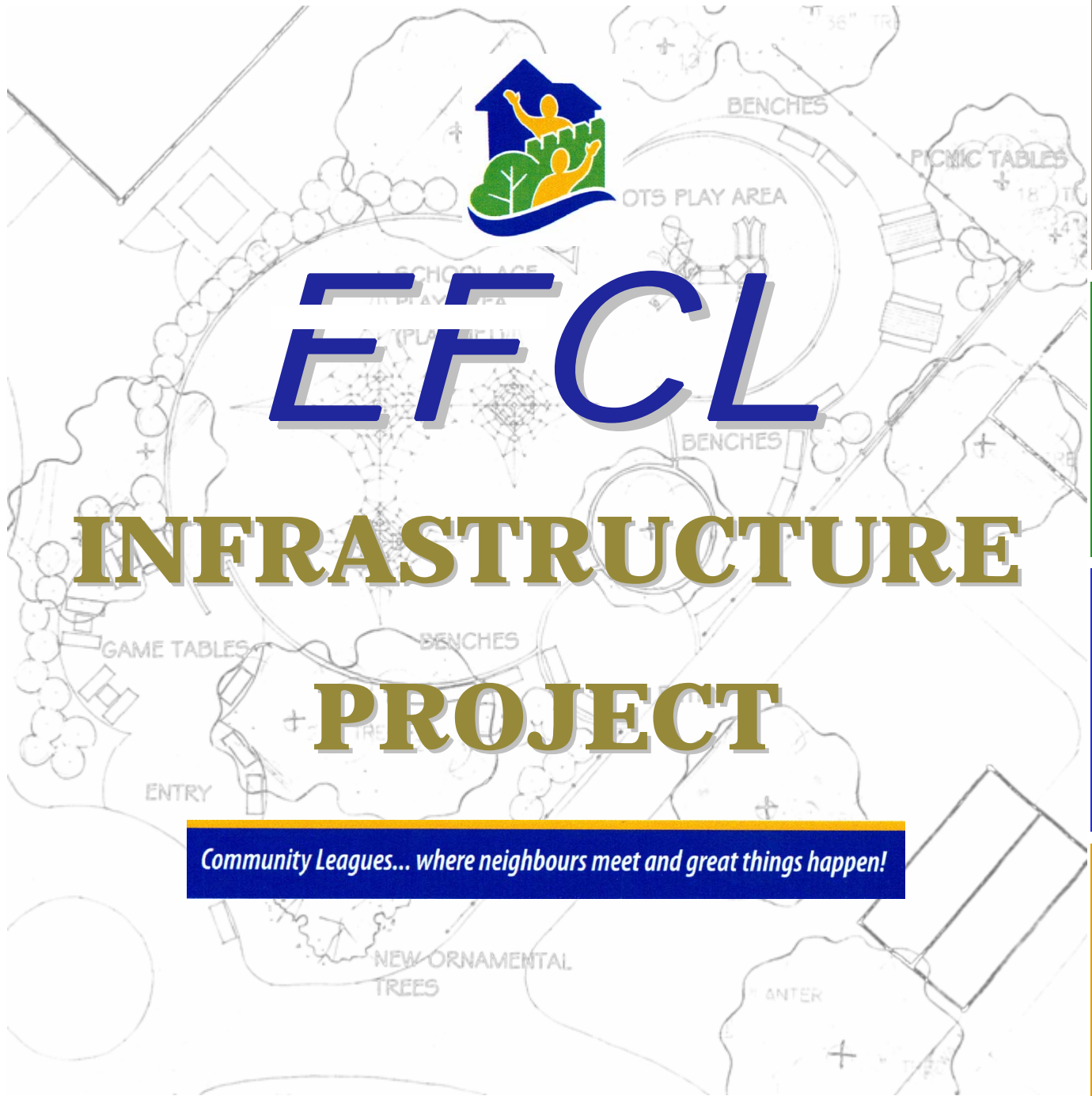


EFCL

INFRASTRUCTURE

PROJECT

Community Leagues... where neighbours meet and great things happen!



CONTENT

1: Brief Project Introduction

2: Energy and Sustainability

3: Energy Audit

4: Building Assessment

5: Project Reports

6: Project Team

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9: Questions



INTRODUCTION

- **What is the Infrastructure Project?**

- **Who are involved in the project?**

- **What are the timelines for the project?**



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INTERESTING FACTS

- 85% of a commercial buildings impact on the environment is through heating, lighting and cooling.
- Commercial buildings account for 37% of Canada's total energy consumption.
- Commercial buildings is responsible for 30% of Canada's greenhouse gasses
- In 2007 Canada's total greenhouse gas emissions were estimated at over 800 megaton's per year, up more then 25% from 1990
- Canada consumes 122 Billion liters of fresh water per day
- Canadians use 340 liters of water per person per day



ENERGY EFFICIENCY

SUSTAINABILITY



EFCL BUILDINGS AND ENERGY



- Age
- Building Methods & Materials
- Maintenance & Repairs
- Technology advancements



COST OF ENERGY



- Heating
 - Cooling
 - Water
 - Electricity



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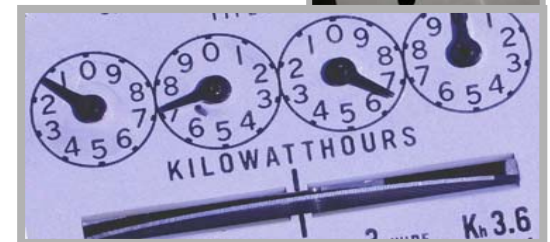
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ENERGY AUDIT

Scope of Work

1: Building envelope

- Windows
- Doors
- Insulation



ENERGY AUDIT CONTINUE

2: HVAC systems

(Heating Ventilation and Air Conditioning)

- Furness (Standard or Roof top)
- Air conditioning
- General Ventilation



ENERGY AUDIT CONTINUE

3: Interview with maintenance staff

- Known conditions
- Problem areas
- Maintenance history

4: Review of utility bills

- Identify Current use
- Calculate possible payback periods



ENERGY AUDIT CONTINUE

5: Additional Energy Options

- Infrared Scans
 - \$500 per building
- Thermal and smoke test
 - \$750 per building
- Mechanical system tests
 - Cost to be arranged with AD Williams



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BUILDING ASSESSMENT

Scope of Work

1: Building Envelope:

- Walls
 - Windows
 - Doors
- Roof
- Flooring



BUILDING ASSESSMENT CONTINUE

2: Mechanical

- HVAC
 - Fire suppression
 - Plumping



BUILDING ASSESSMENT CONTINUE

3: Electrical

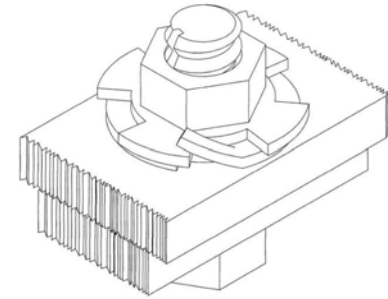
- Main Distribution Panel
- Lights
- General Electrical



BUILDING ASSESSMENT CONTINUE

4: Structural

- Foundation
- Roof trusses
- Other general structural issues



BUILDING ASSESSMENT CONTINUE

5: Civil

- Drainage
- Walkways & Parking



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PROJECT REPORTS

1: Energy Audit Report

- Energy savings recommendations
- Cost of implementation
- Estimated payback periods

2: Building Condition Report

- High, medium & low concerns
- Recommended corrective action
- Cost analysis of implementation



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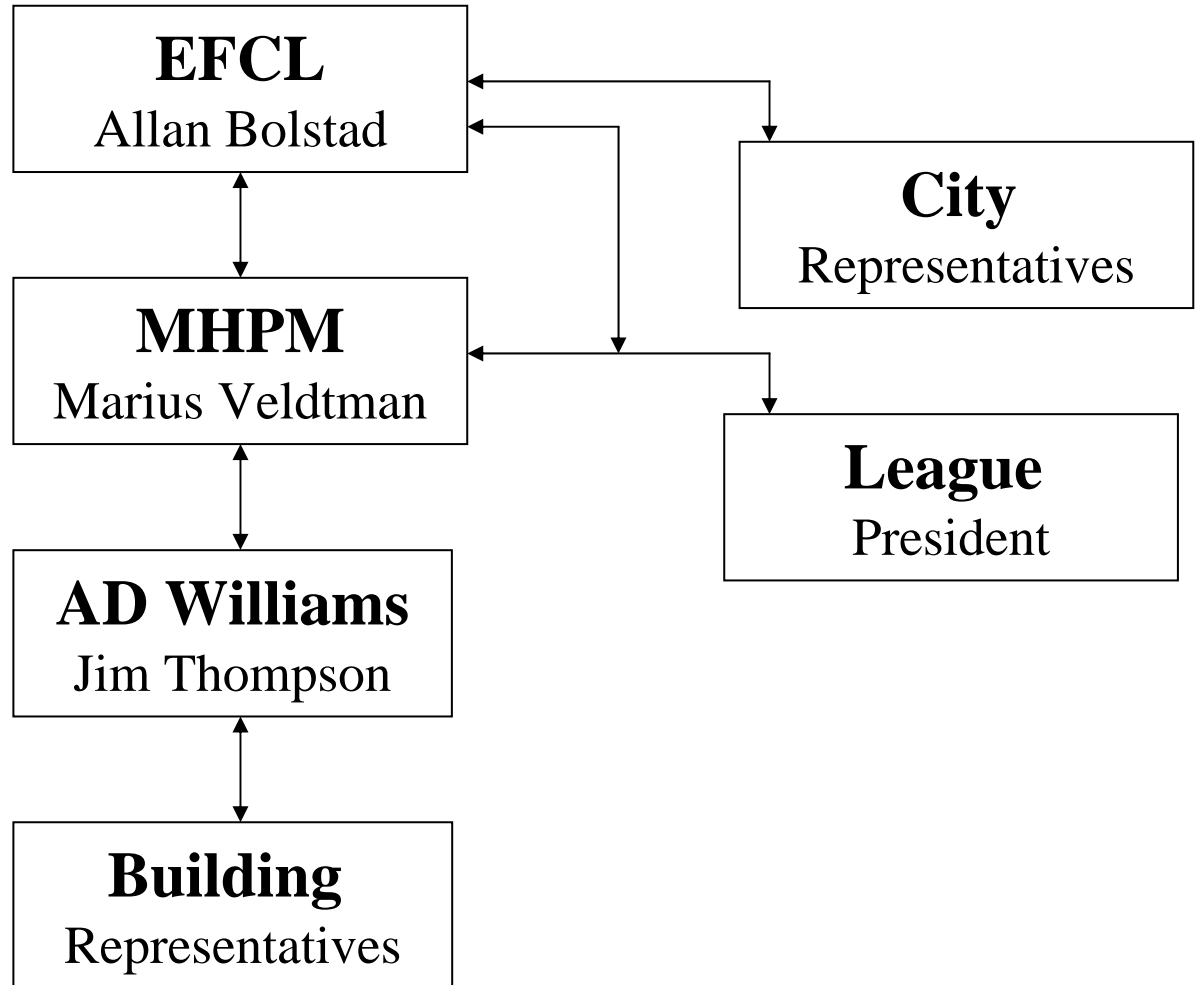
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PROJECT TEAM



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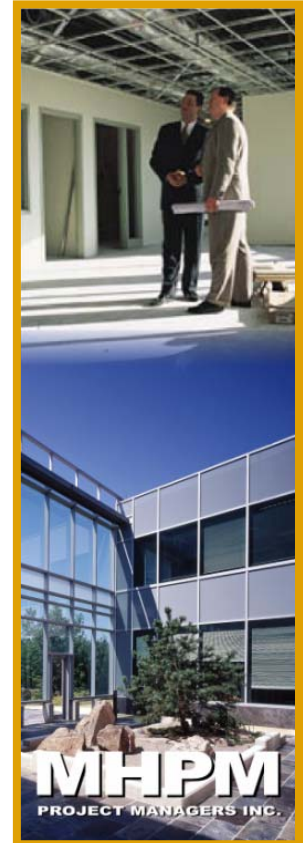
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PROJECT PLAN

- 1: Define Project Scope
- 2: Secure project resources
- 3: Develop project Schedule
- 4: Develop project budget
- 5: Information Seminar
- 6: Develop site list
- 7: Schedule site visit
- 8: Perform surveys
- 9: Compile & submit reports



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PROJECT FUNDING

1: The City of Edmonton

2: Provincial Grant Applications

3: League Contribution, 20% of Cost

0 – 5000 sq.ft = \$1000-00

5001 – 7500 sq.ft = \$1200-00

7501 – 10 000 sq.ft = \$1600-00

10 000 sq.ft + = \$2000-00



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QUESTIONS ?



