Sunnyside Sanitary Lift Station

Flood Resiliency Improvements
Conceptual Design

Agenda

- Purpose of Conceptual Design
- Design Criteria
- Conceptual Design
- Estimated Time to Design & Construct
- Estimated Costs
- Tentative Plans

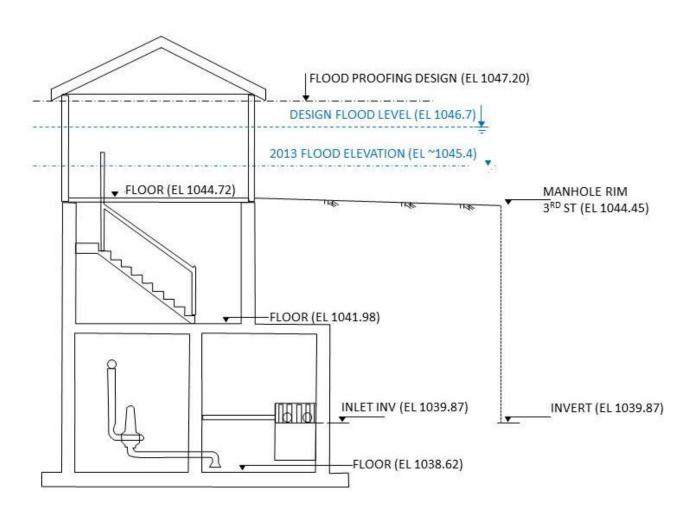
Purpose of Conceptual Design

- Establish the basis of design criteria for improvements
- Allow review and discussion of improvements outside of typical design & construction framework

Design Criteria

- Design Flood Elevation
- Limitations and Modernization of Existing Lift Station
- Operational Requirements

Design Flood Elevation

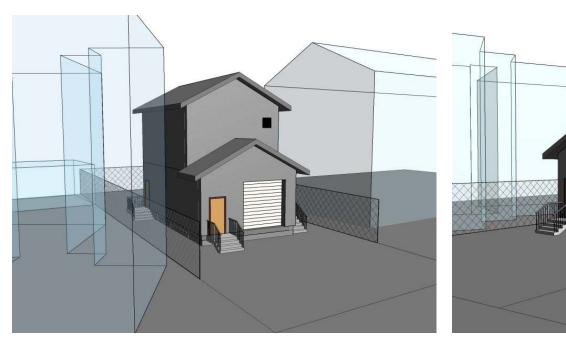


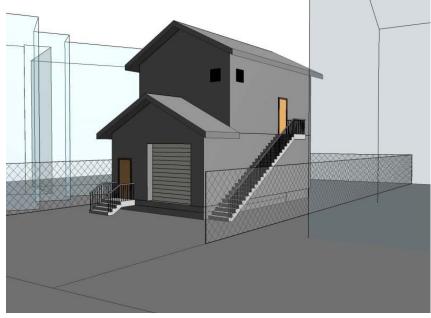
Limitations & Modernization

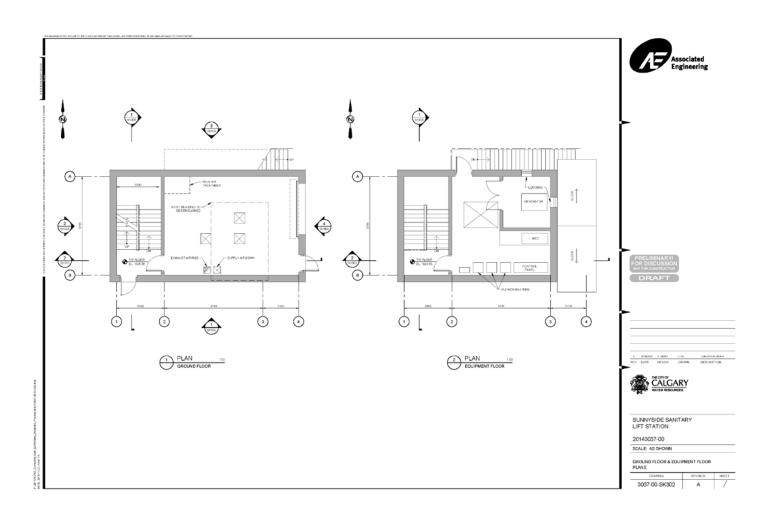
- Limitations:
 - Existing at-grade building
- Modernization:
 - Alberta Building Code
 - Electrical Systems
 - Mechanical Systems

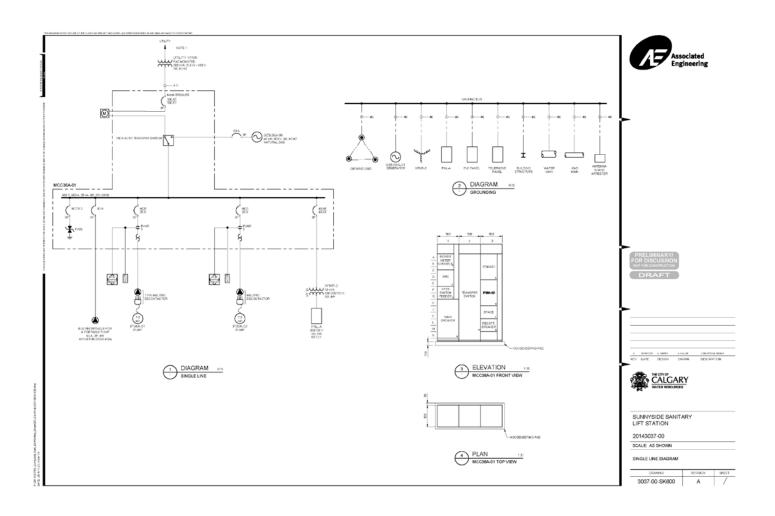
Operational Requirements

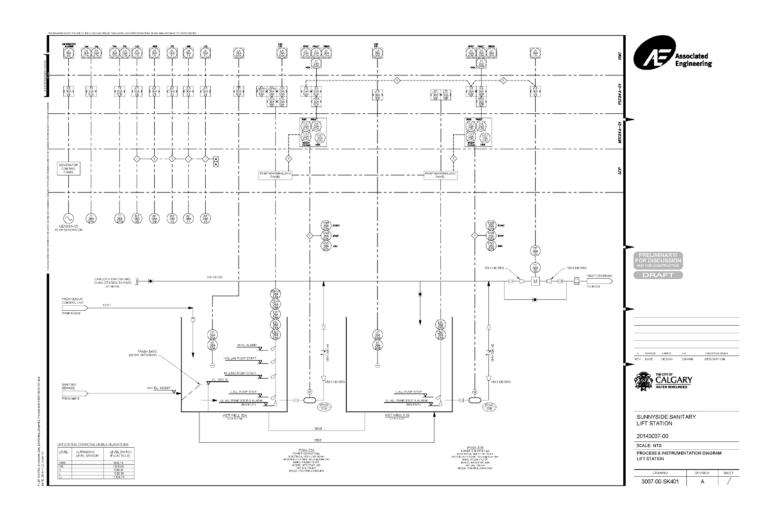
- Maintain Existing Service Levels Outside of 1 in 100 year Flooding Conditions
 - No change in pumping or storage capacity
- Operational During 1 in 100 year Flooding Conditions
 - Functionality of lift station will be unaffected,
 although sanitary system may be non-functional
 - Contribute to returning sanitary catchment to functionality











Estimated Time & Cost Design & Construction

- 12 to 18 Months for Detailed Design work and Public Consultations
- 12 Months for Construction work
- \$X.X M (± 30%) for Detailed Design & Construction

Tentative Plans

- Detailed Design to begin in 2015 once budget is confirmed in February
- Investigate interim measures if project is deferred due to budgetary issues