# TOWARD INTEGRATION: Collaborative Architecture and Design Methods

Whole Foods Co-op

Duluth, MN



Midtown Global Market

Minneapolis, MN

Software:

AutoCAD Architecture 2011,

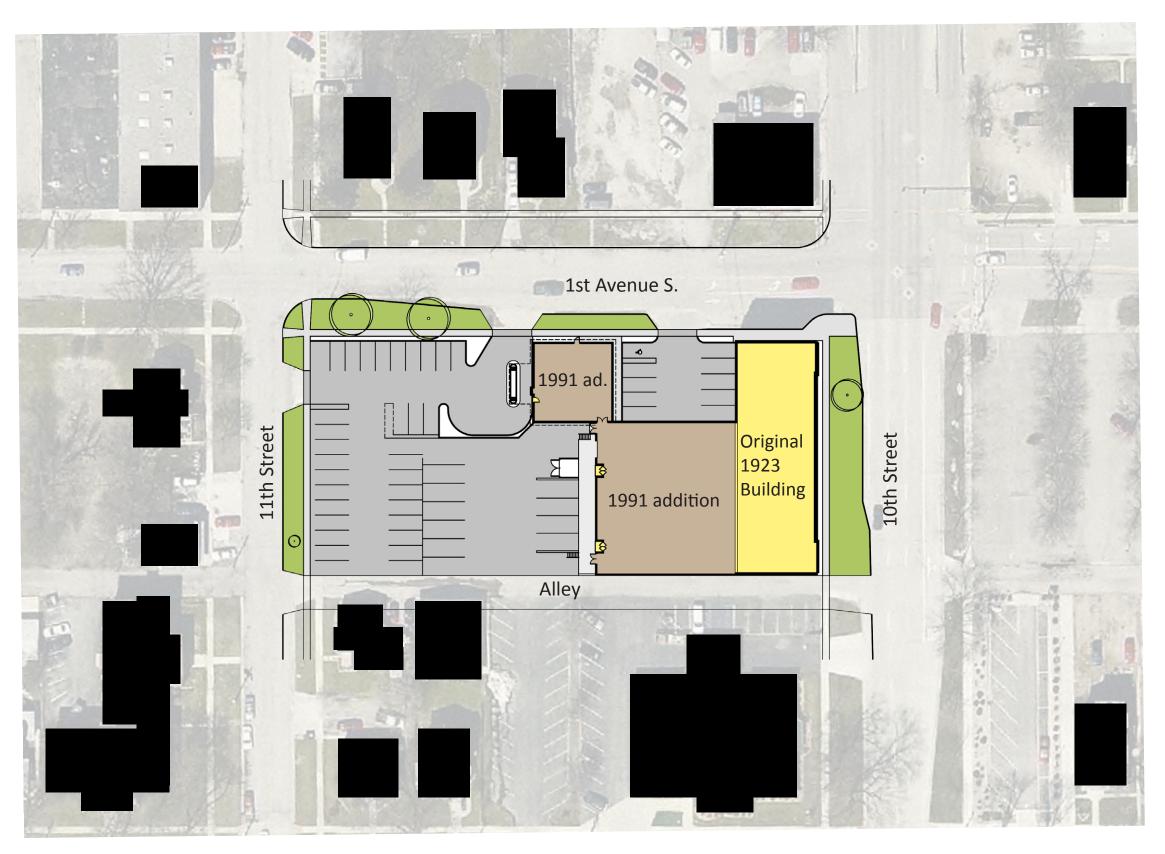
InDesign CS5, Photoshop CS5, Render[in],

Revit Architecture 2011, SketchUp 8 Pro



## Site/Context



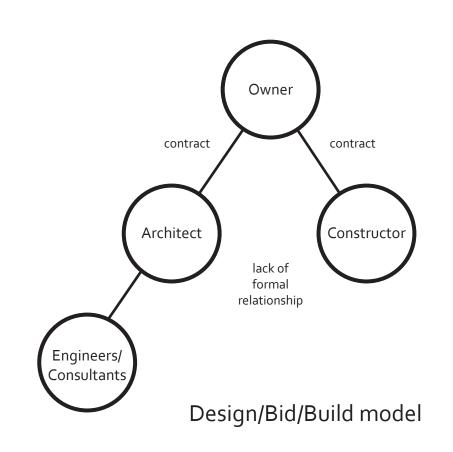


### Problem Statement

What are the implications of architecture delivery models on the access to and propagation of quality architecture?

#### Research

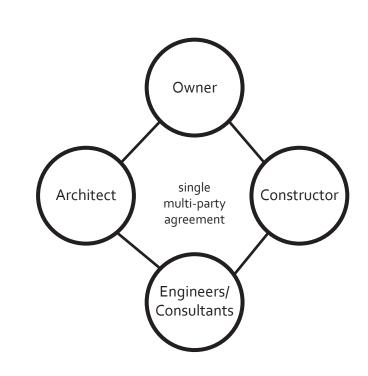
Current architectural delivery models lack in communication, sharing, and accountability (such as design/bid/build).



Integrated Project Delivery as a formal collaborative process is successful by Involving key participants early

Intensified Planning and goal definition Collaborative and Open communication

Technology and Building Information Modeling (BIM) enable further collaboration of key participants, by allowing participants to develop one model, virtually merging the buildings parts to create a cohesive and resolved model.



Integrated Project Delivery model

# Forming Conclusions

Integration of people and process produces further developed and integrated architecture, and therefor higher quality results.

meaning...

less waste

better coordination of complex issues and details shared success and failure

and

collaborative innovation

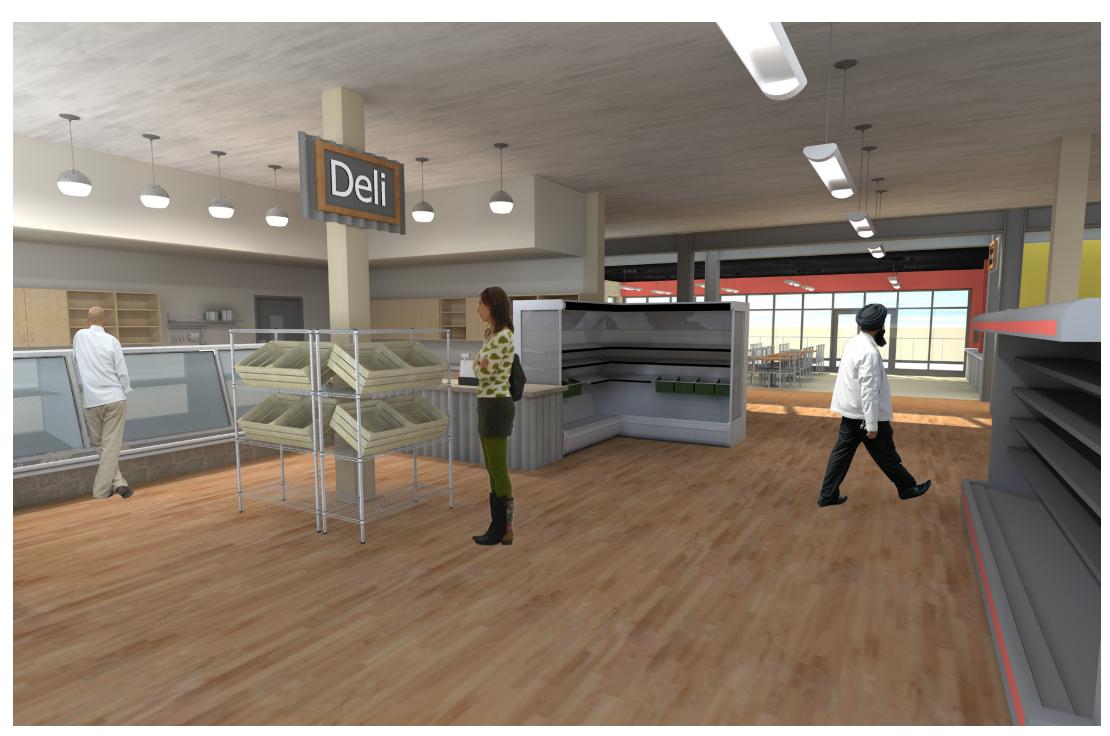








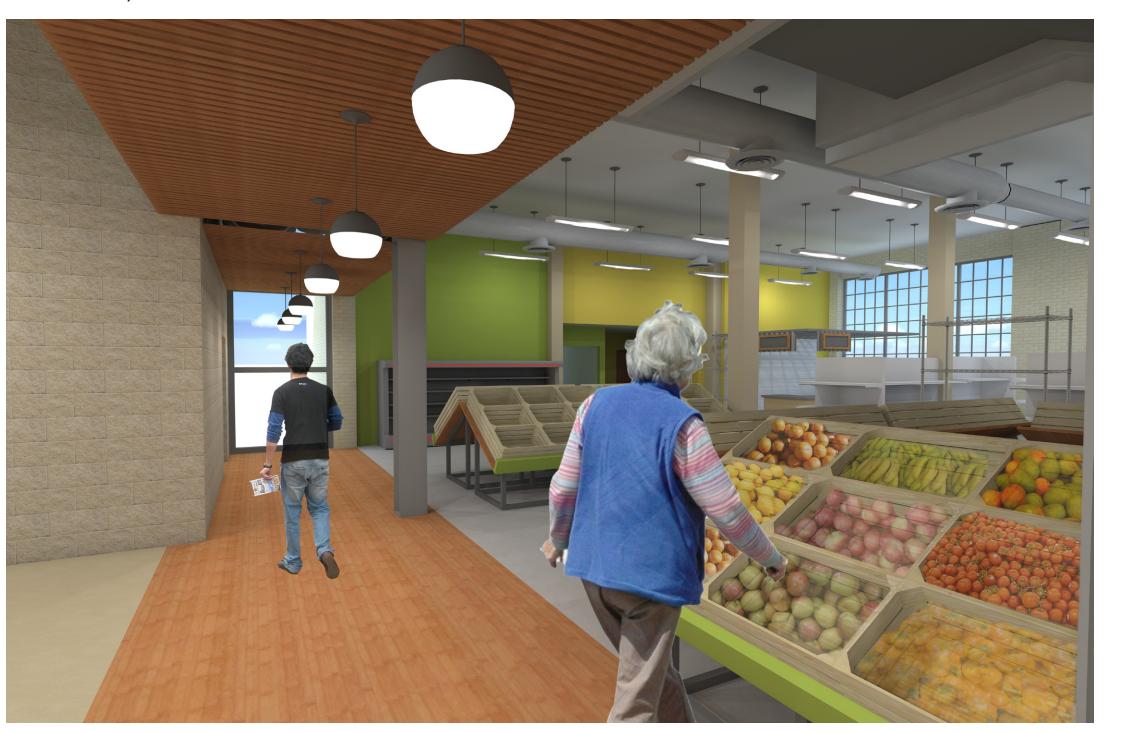
ENTRY / RETAIL SHOPS / RAMP / LEARNING KITCHEN



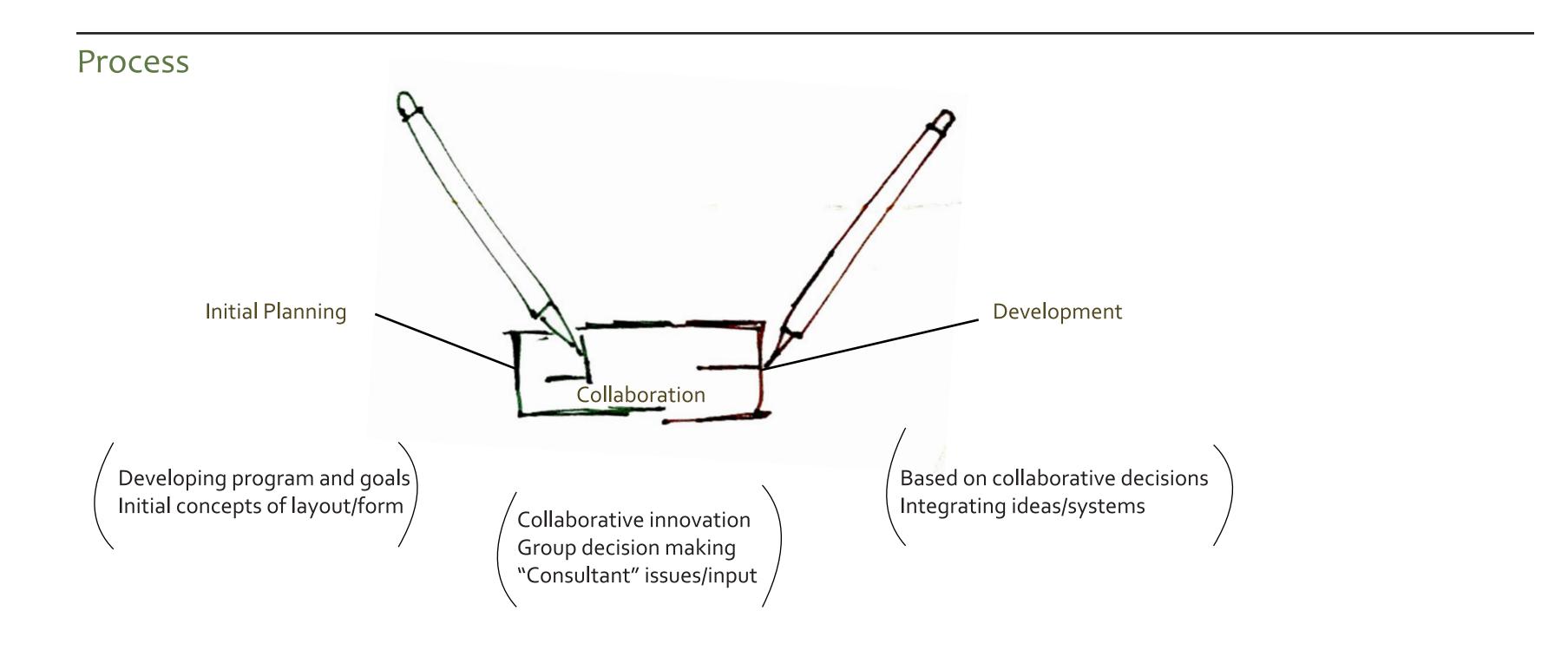
DELI / CAFETERIA BEYOND



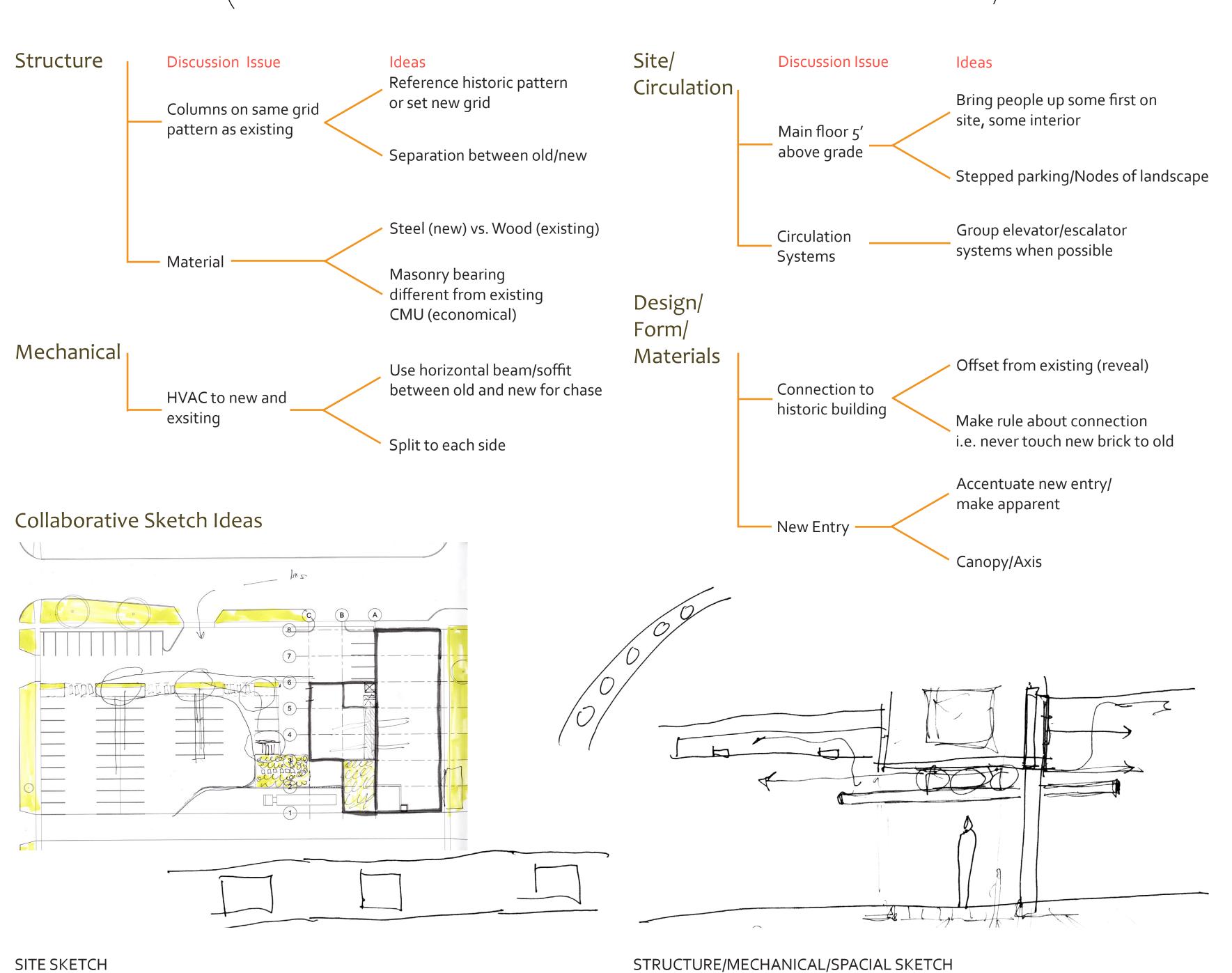
CAFETERIA / INTERNATIONAL FOODS VENDORS

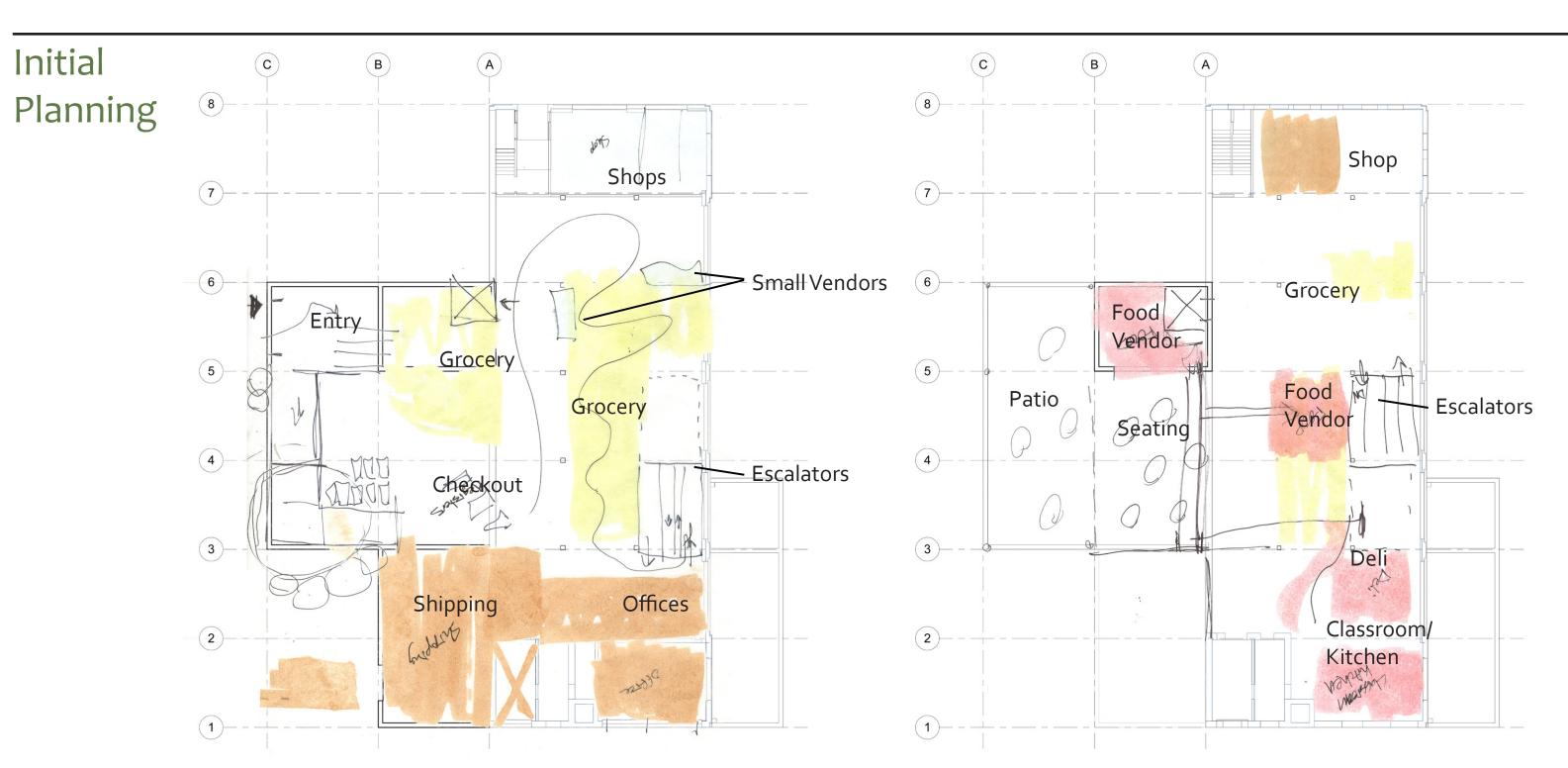


OPEN CORRIDOR / PRODUCE



Collaboration Consisting of a working session with Chris Hawley of Stahl Meland Hawley Architects & Builders, chosen for a balance of architectural design, contracting, and collaborative process experience.

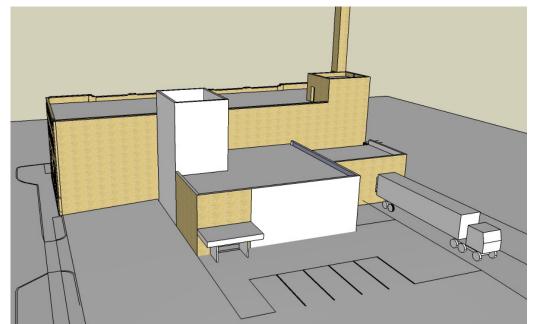




Development Quick visualization of decisions from collaboration



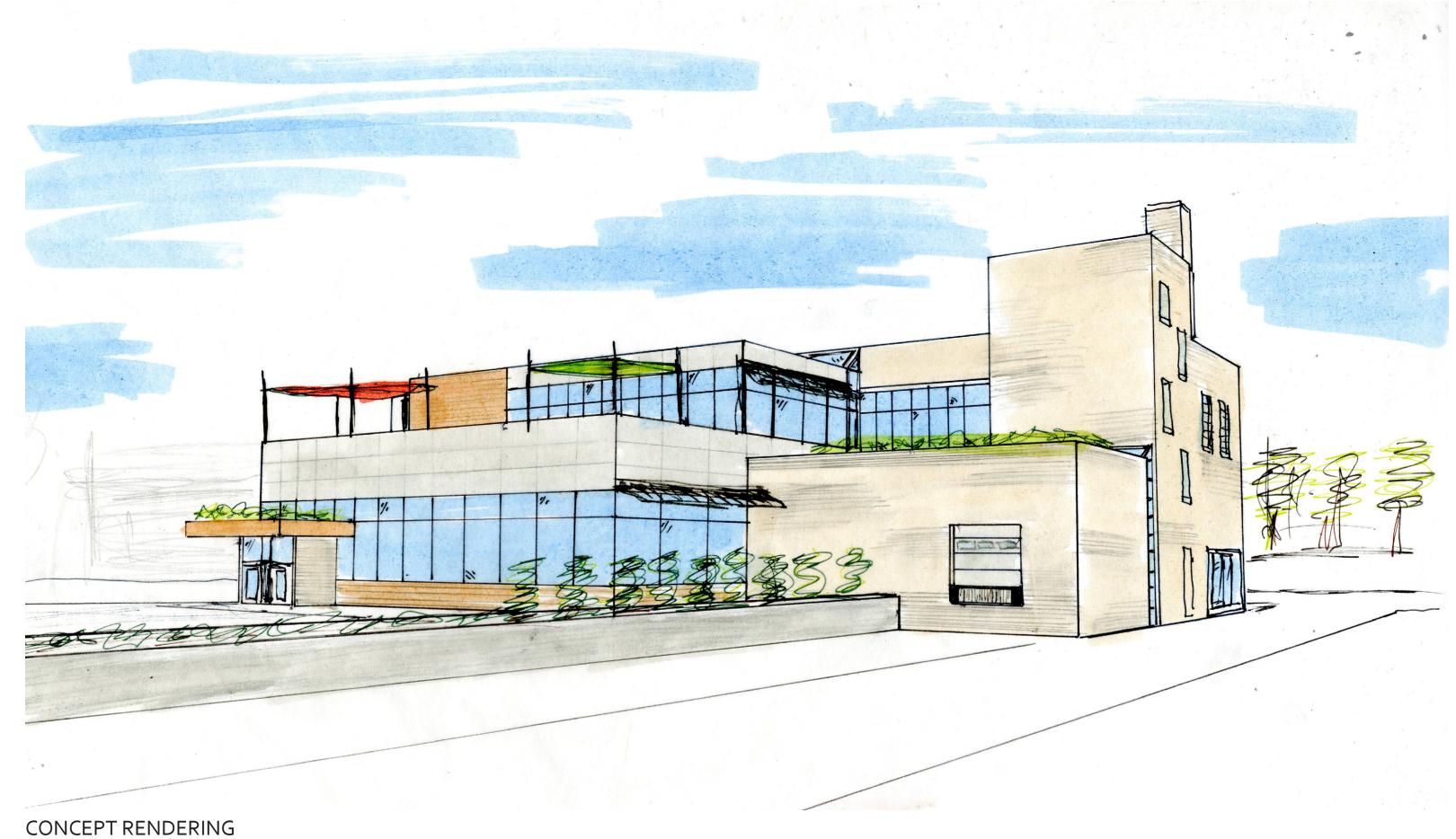
Reveal/offset bridging new and existing



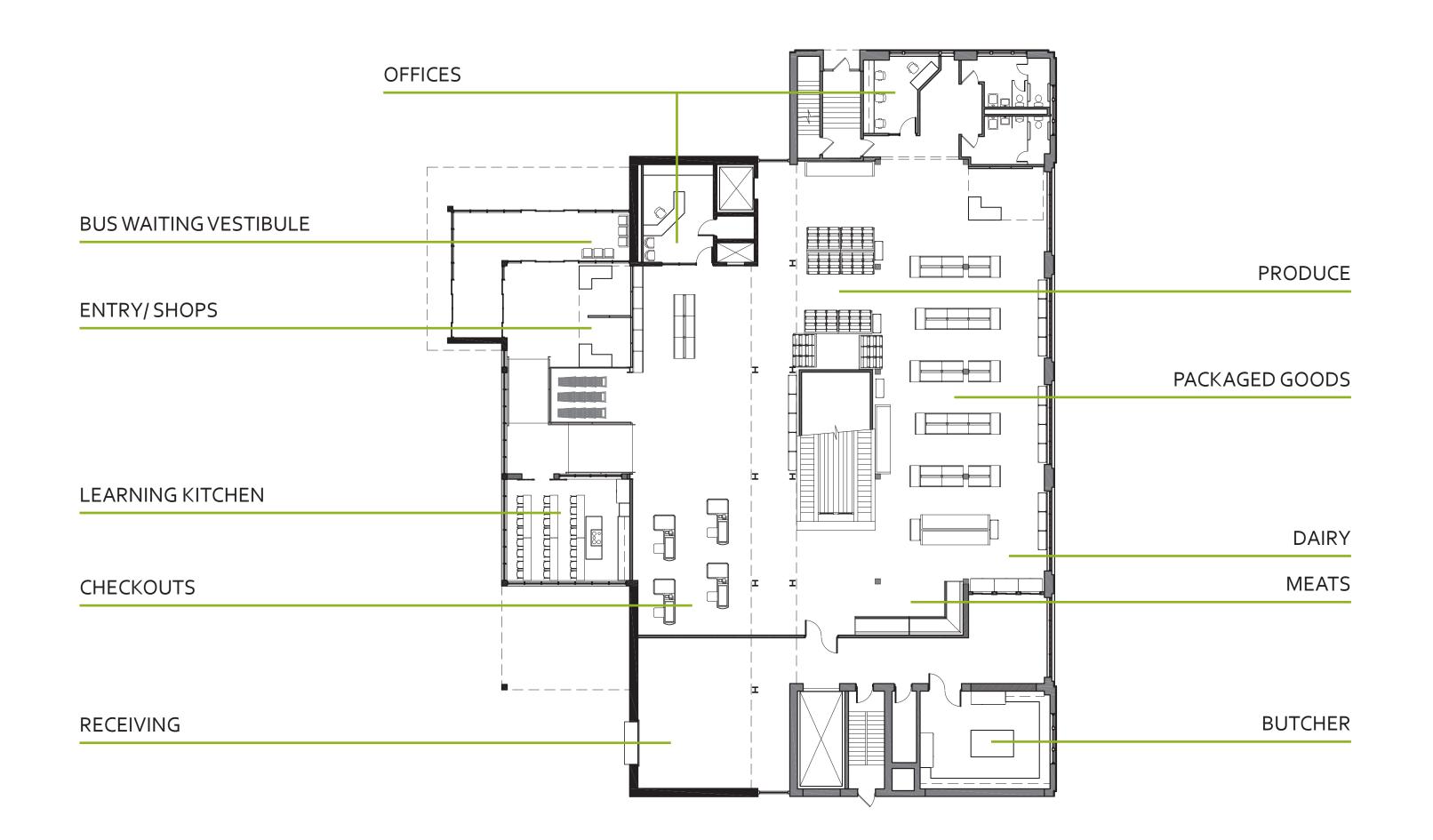
Material contrast and replication



Soffit/mechanical chase between new/existing

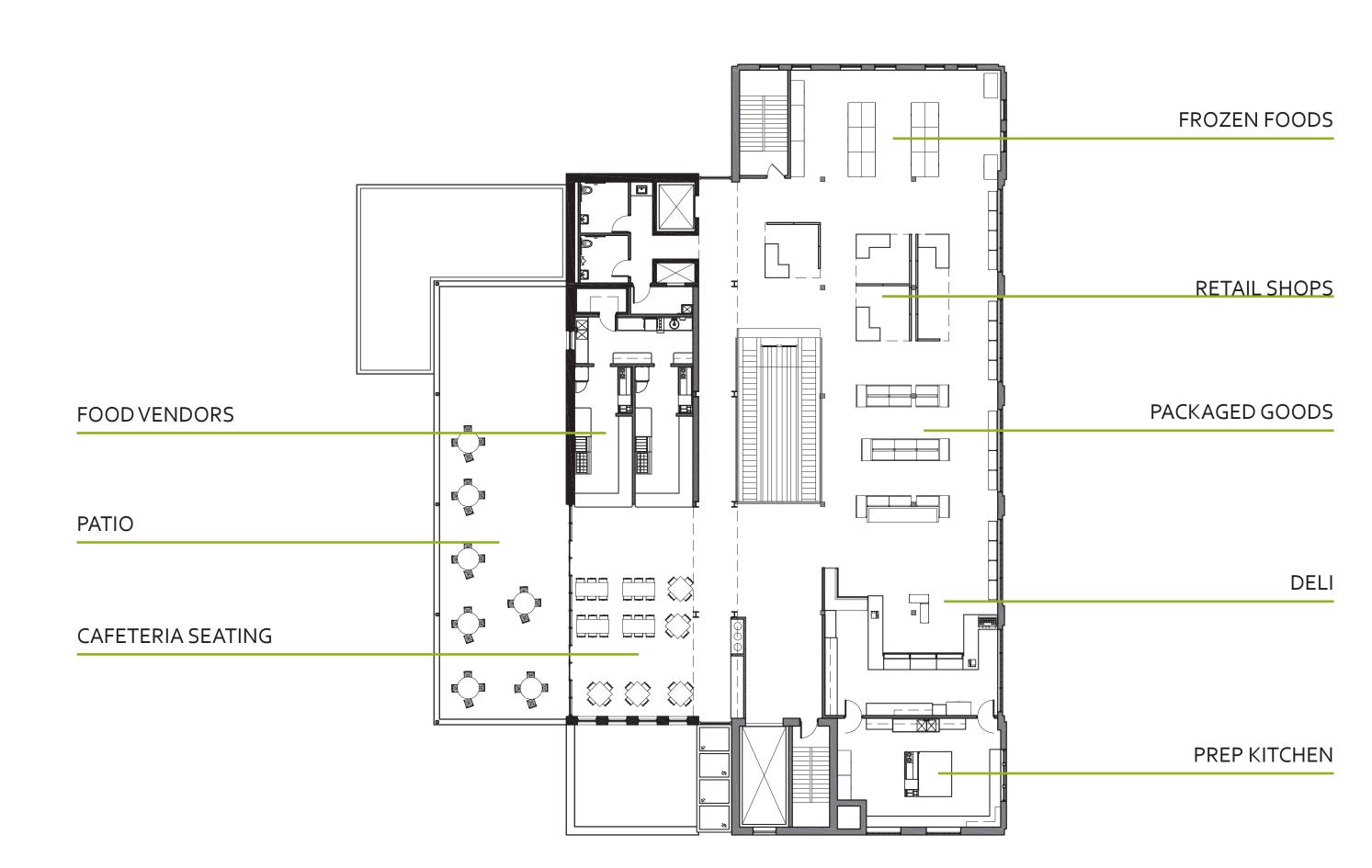


SITE SKETCH

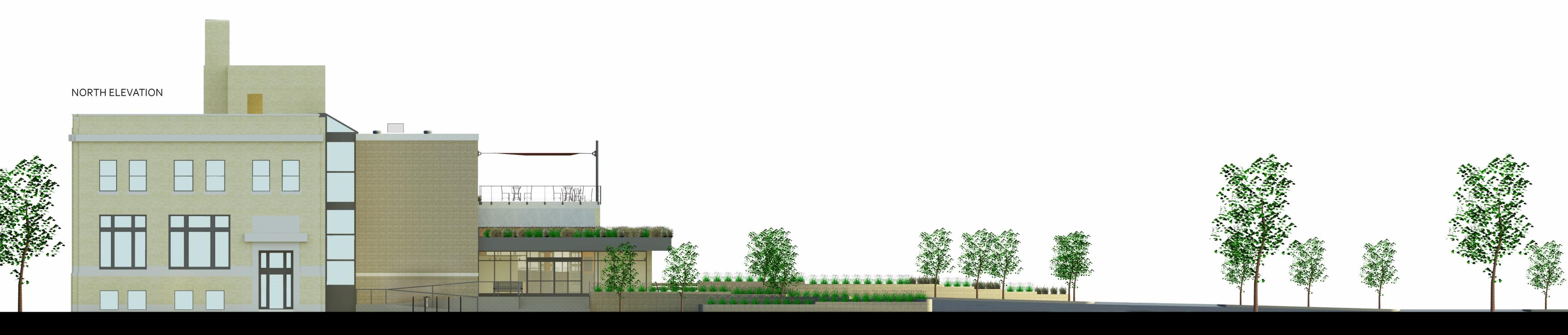


MAIN LEVEL FLOOR PLAN

Scale: 1/16" = 1'-0"







### Structural/Mechanical/Circulation Corridor

The bridge between new and historic construction provides a chase for mechanical piping, material transition from new building to old, and natural daylighting.

#### International Foods

Guests can stop for lunch, with a choice of two international foods vendors and the co-op deli, in a bright informal cafeteria.

Outdoor Seating and Market Space
Canopies provide shading and color for a pleasant outdoor environment to eat and support outdoor market events.

# Learning Kitchen

Provides a community gathering place to learn cooking techniques, promote products, and encourage healthy eating.

# Replacement Windows

New glazing can preserve the historic character of the Fargo Laundry Building facade while reducing thermal loss and allowing stimulating sunlight into the building.

#### Cart Escalator

People and cart escalators allow shoppers to easily access each level.

Storage Existing and additional basement space allows for ample dry and freezer storage, while a dedicated freight elevator moves products floor to floor.