

Town of Newtown
Town Building Inventory & Planning Work Group
Wednesday November 10, 2021 Regular Meeting Minutes

The Following Minutes Are Subject to Approval by the Work Group

The Town Building Inventory & Planning Work Group held a regular meeting Wednesday, November 10, 2021. The meeting was held at the BOE Conference Room, Municipal Center. Ned Simpson called the meeting to order at 7:04 pm.

PRESENT: Allen Adriani, Graham Clifford, Bob Gerbert, Fred Hurley, Zach Marchetti and Ned Simpson. First Selectman, Dan Rosenthal was also present

ABSENT: David Schill

VOTER COMMENTS: None

ACCEPTANCE OF THE MINUTES: Graham C moved to approve the minutes of October 27, 2021, seconded by Zach M. Motion passed unanimously.

COMMUNICATIONS: None

NEW BUSINESS:

- Work Group Check Point presentation to the First Selectman
Through a series of slides, Ned S described to Work Group's vision, their definition of the data structure for facilities, systems and components. Graham C provided a demo of the prototype system he has developed for the town's building inventory. The groups distinction between information about facilities and systems that does not change and information that is constantly updated such as condition and remaining useful life.

It was described that in looking for the data to load into the system, it became clear that paper documents for older facilities and digital files for newer construction were not easily obtained. Town wide responsibilities for building documentation is not defined. And there is not a digital document management system. Therefore document management has been added to the scope of the prototype.

The Work Group considers the data definition and underlying structures sufficiently defined to move to initial data capture and operationalizing to keep the data current and broad uses of the data. Systems such as mechanical have routine maintenance and a lot of the data can be captured as part of that maintenance. Other systems, such as structural, will need focused efforts. Staffing for data capture was addressed including use of interns, existing town staff, and bringing on staff for part time work.

OLD BUSINESS:

Discussion: Purpose, design and development of a Town building inventory

Discussion deferred to the December meeting

- Follow-up from last meeting
- Discussion of Newtown Information System (NIS) Prototype
- Digitizing, Storage and management of facility documents


ANNOUNCEMENTS:

Next meeting Wednesday, December 8, 2021, Ned will seek to have this meeting at Edmond Town Hall. For the January 12, 2022 meeting Ned will seek to have the meeting at the Community Center. Al Miles, Technology and GIS Director will be invited to the January meeting.

ADJOURNMENT: Alan A moved to adjourn the regular meeting of the Town Building Inventory & Planning Work Group at 8:20 pm seconded Fred H. Motion passed unanimously.

Respectfully submitted,

Ned Simpson, Chair



Status Presentation to 1st Selectman

November 10, 2021

Town Building Inventory & Planning Work Group

Allen Adkins, P.E., Vice Chair Stephen Clifford
Beto Gierhart, P.E. Fred Murphy
Zach Marshall, P.E. David Smith, P.E.
Red Strangas, Chair

1

Topics

- Our Vision
- Building Inventory Design
- Demo of Newtown Information System (NIS)
- Uses and Benefits
- Status of Loading Data
- Capture and Management of Building Documentation
- Other Document Management Challenges
- Timeline & Next Steps



2

Why A Town Building Inventory

- Save Money
- Efficient Buildings
- Limit disruptions to operations
- Consistency
- Transparency
- Accessibility
- Nonpolitical
- Fact Based
- Work Smarter, not harder
- Training and Orientation
- Knowledge Transfer



3

Defining a Building

- Define as a hierarchy
 - Campus
 - Facility/Building
 - Wing
- Sources for Building Information
 - 2010 Inventory spreadsheets (mostly schools)
 - CRMA Insurance filing
 - Individual's knowledge
- Other town systems focus on Properties with information about buildings
 - GIS
 - Vision – Appraiser System
 - ICS – Town Records




4

Defining Building Components

A taxonomy, consistent vocabulary, was needed

- Structure:
 - Group (Conceptual group, not physical thing)
 - Systems (Physical things)
 - Components (Physical things)
- Systems and Components have Parameters describing characteristics of the physical things
- Collections of components can be defined and named



Facility (Building) System Groups

1. Structural
2. Envelope
3. Mechanical
4. Plumbing
5. Electrical
6. Interior
7. Safety
8. Grounds
9. Other

5

Component Example Mechanical

A. System: Heating

a. Component: Boiler

Parameter: Boiler Plant

Parameter: Fuel

Parameter: Boiler Type

Parameter: BTU Rating

Parameter: Install Date

Parameter: Condition

B. System: Cooling

C. System: Ventilation

D. System: Exhaust


E. System: Packaged System - HVAC

a. Component: HVAC Heat

b. Component: HVAC Ventilation

c. Component: HVAC Exhaust

d. Component: HVAC Cooling



E. System: Controls

F. System: Fuel Tanks

Parameter: Type

Parameter: Size (gallons, lbs, other)


Parameter: Installation Date

G. System: Elevators

H. System: Other

6

Newtown Information System



7

Operational Uses


- Maintenance
 - What needs to be done
 - What was done
 - Routine (Preventative Maintenance)
 - What
 - When
 - How
 - Repair
 - Follow-up
- Documentation
 - Look-up and Retrieval



8

Project Overlay

- Link a collection of Systems and Components from one or more facilities into a "Project"
- For Planning
 - Maintenance Contract RFP
 - Regularly performed tasks (e.g. winterization)
 - Schedule
- For Operations



9

Planning

- Project Overlay
 - CIP
 - Non-CIP Replacement
 - Abatement Needed
- Energy Audits
- Ad hoc Queries
- Analysis of Maintenance Data – Patterns to Inform
 - Preventive Maintenance Scheduling
 - Saving for replacement
 - Purchases
- Knowledge Transfer




10

Newtown Information System

Reporting (Look-up) Examples

- Maintenance
- Useful Life
- Economies of Scale
- CIP Description (Components)




<https://www.vbbs.com/nls/>

11

Facility Documentation

Digital documents, drawings and images that can be associated with System, Component and/or Facility and Wing

- Architectural & Engineering Design
 - Drawings
 - CAD files
 - Specifications
- As Built
- Inspection and Maintenance Reports
- Collect, Centrally Store and Index files for recent construction
- Scan paper documents



12

Building Inventory & Planning Work Group Going Forward

- **Building Inventory**
 - An Infrastructure
 - Initial population of the data
 - Ongoing data capture and quality
 - Additions and Replacement
 - Maintenance Routine & Repair
- **Document Management**
 - An Infrastructure
 - Initial population of the data
 - Existing Document File Capture from recent construction
 - Document scanning and indexing (Phased)
 - Ongoing data capture and quality



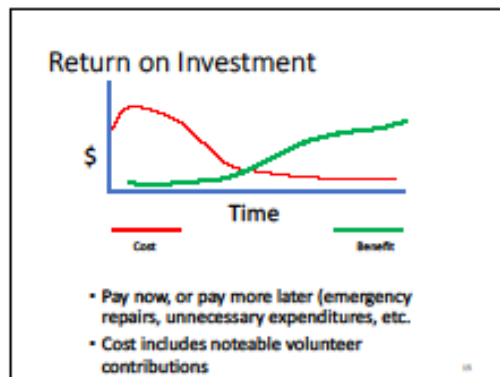
13

Critical Success Factors

- **Ownership**
 - Selectman
 - Operational Ownership
 - Director of Public Works
 - Director of Facilities
 - Independent Board
 - Technology Owner
 - Director of Technology & GIS
 - Other
- **Initial Load Approach, Training and Timing**
- **New and Modified Processes**
- **Ongoing Responsibilities**




14



15

Timeline & Next Steps



- **By April 2022**
 - Up-loaded Spreadsheets of Building and Wing Information to be Establish Version 1 and build it
 - Prioritize data collection. Phase, organize and plan data collection
 - Expose the effort to town staff and bodies
 - Do Phase 1 data collection
- **By Summer 2022**
 - Establish Technical and Operational Governance
 - Arrange Student Projects
 - Determine support requirements
 - Define and build Version 2
 - Work with BOE & BOS on planning

16