

Federal Transit Administration

Transit Asset Management Roundtable

Getting Started

Asset Inventory and Facility Assessment TAM Work Underway at a Tier II Property



HODE ISLAND

GBT Overview

CONNECTICUT

- Provide Both Fixed Route and Demand Response Services
- Fleet of 57 FR Buses, 28 DR Buses and 165 Employees
- Ridership of 5.5 Million Annually
- Three Facilities (Maintenance, Administration, Public Station)
- Operating Budget of Approximately \$20 Million
- Capital Budget Ranging from \$5 Million to \$30 Million Annually
- Current Assets of \$60,817,448
- Direct Recipient
- Located on the Southwest Coast of Connecticut

NEW HAVEN

BRIDGEPORT

STAMFORD

LONG ISLAND SOUND

NEW

Background

- "...insufficient funding combined with <u>inadequate transit</u> <u>asset management practices</u> have contributed to an estimated \$85.9 billion transit State of Good Repair (SGR) backlog..."
- **Tier II** A recipient that owns, operates, or manages 100 or fewer vehicles in revenue service during peak regular service across all non-rail fixed route modes or in any one non-fixed route mode.
- Working With the Connecticut Department of Transportation (CTDOT) on the Development of a Statewide Tier II Plan

Elements of the GBT TAM Plan 49 U.S.C. 5326

Select Key Elements of the Tier II Plan

- 1. Inventory of the Number and Type of Capital Assets (RS,F/E,I) (Commensurate with the level of detail of the providers program of capital projects)
- **2. Asset Condition Assessment** (To monitor and predict the performance of the asset and inform prioritization)
- **3. Process for Investment Prioritization** (*To estimate investment needs over time*)
- **4. Prioritization of Investment** (Rank projects, considering safety and accessibility)

GBT Inventory

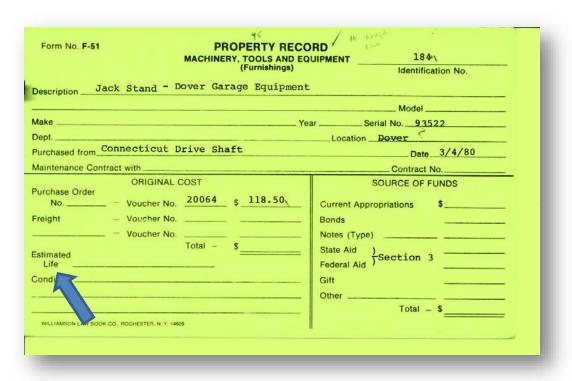
- Contains Information On All Assets => \$300.00 (Tagged and Inventoried Annually)
- GBT Will Apply Regulation First to Meet FTA Threshold
- Finance Staff Verifies All Information Maintenance and Other Staff Involved in Condition Assessment
- Fields for Estimated Life and Condition Assessment Available - Historically Not Used

- Assets Tended to be Used Until Failure (or Almost Fail)
- Interrupts Capital Program Budgeting Process

Additional Fields for all Records:

- ✓ Asset Classes (RS, F/E, I)
- ✓ Condition Assessment
- ✓ Estimated Replacement Date
- Safety Critical Determination (Y/N)
- Mission Critical Determination (Y/N)
- Accessibility Feature (Y/N)

Original Asset Inventory

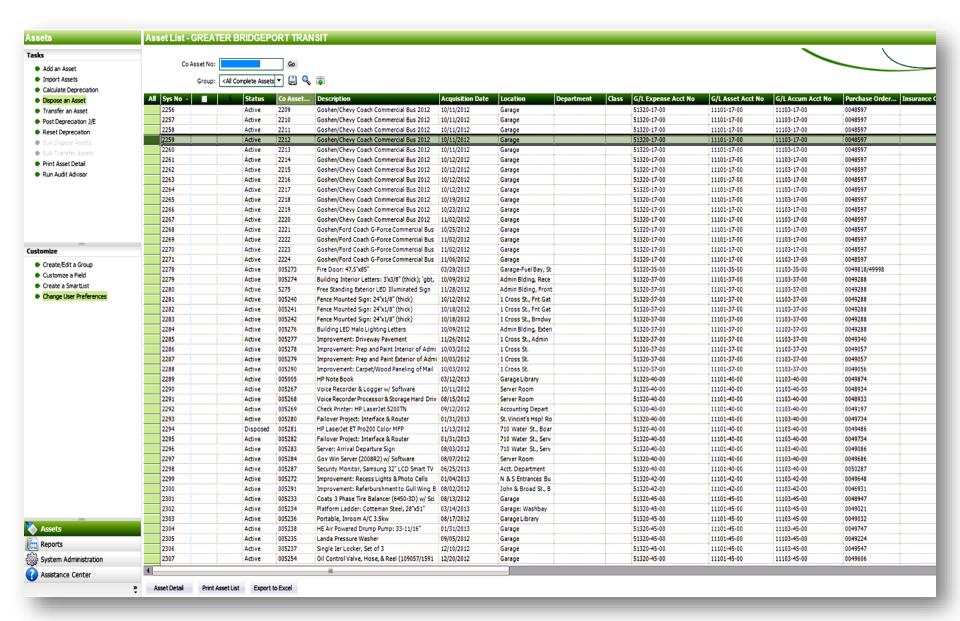


- Part of Financial Planning Process -Depreciation
- ✓ Asset Description
- ✓ Location
- ✓ Origin
- ✓ Original Cost
- ✓ Date of Purchase
- ✓ Source of Funding
- Estimated Life
- Condition
- Safety Critical
- Operation Critical

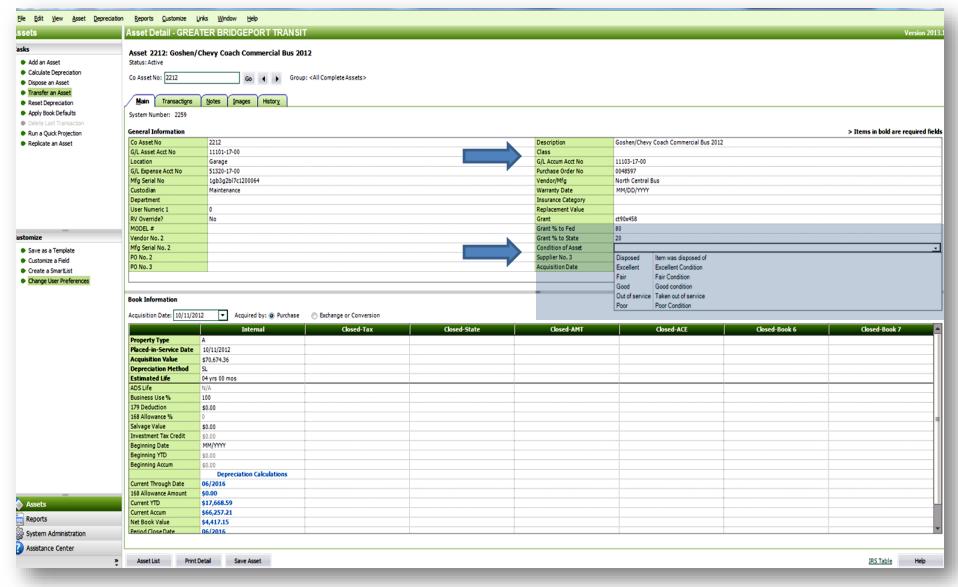
Asset Management System Transition

- Move from Manual to an Automated System
- Flexibility in the Database
- Transition Was Not for New TAM Effort
- "Legacy" System Contains What is Needed for the Updated Inventory (Asset Class, Useful life, Asset Condition, Estimated Replacement Value, Other Items)
 - ➤ Sage® Fixed Asset Solution

Current Inventory



Drill Down By Record



Condition Assessment CT Statewide Standardization

Description	Soshen/Chevy Coach Commercial Bus 2012
Class	Gostien/Chevy Coach Commercial bus 2012
G/L Accum Acct No	11103-17-00
Purchase Order No	0048597
Vendor/Mfg	North Central Bus
Warranty Date	MM/DD/YYYY
Insurance Category	
Replacement Value	
Grant	ct90x458
Grant % to Fed	80
Grant % to State	20
Condition of Asset	
Supplier No. 3	Disposed Item was disposed of
Acquisition Date	Excellent Excellent Condition
	Fair Fair Condition
	Good Good condition
	Out of service Taken out of service
	Poor Poor Condition

Capital Planning and Programming

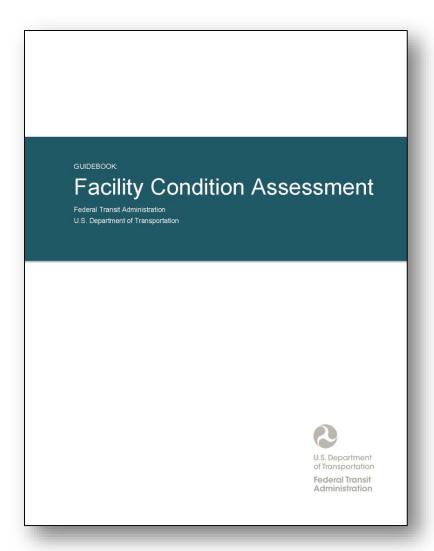
Asset Inventory - Decision Support Tool

- Capital Programming Currently Not Based on Formal Inventory or Formal Condition Assessment
- Consists Generally of Annual "Ask" of Department Leaders
- Some Departments are More Detailed than Others
- Can Miss Important Items in Asset Classes
- Process is Not Good at Predicting System Failures or Informing the Process

When complete, the new process will generate reports of assets reaching useful life with **condition assessments** and other **(safety/mission/accessibility critical)** characteristics as a decision support tool for capital programming.

A &M Facility Assessment

- 1. Administrative Offices
- Maintenance Facility and Garage
- 3. Maintenance "Shed"
- Campus Completed in 1987
- Recent SGR Improvements:
 - Garage Roof Replacement
 - Five UST Replacements
 - Steam Bay Rehabilitation
 - Wash Bay Rehabilitation
 - Perimeter Fencing



Minimum and Supplemental Facility Components

Systems/Components to be Evaluated Include:

- A. Visible substructure;
- B. Exterior envelope (including roofs, doors and windows);
- C. Interiors;
- D. Conveyance (elevators and escalators);
- E. Plumbing;
- F. HVAC;
- G. Fire Protection;
- H. Electrical,
- I. Equipment;
- J. Site (physical site characteristics);
- K. *Fare Collection at Passenger Facility

Supplemental

- Bus Lifts;
- UST Systems;
- Security Systems;
- Energy Efficiency

Performance Measure

• 625.43 (d) Facilities. The performance measure for facilities is the percentage of facilities within an asset class, related below condition 3 on the (Transit Economic Requirements Model) TERM Scale.

Table 5 - General Condition Assessment Rating Scale

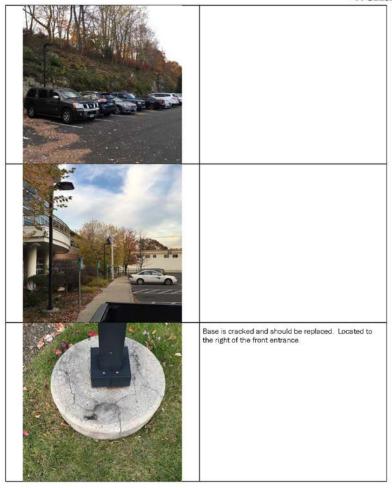
Rating	Condition	Description
5	Excellent	No visible defects, new or near new condition, may still be under warranty if applicable
4	Good	Good condition, but no longer new, may have some slightly defective or deteriorated component(s), but is overall functional
3	Adequate	Moderately deteriorated or defective components; but has not exceeded useful life
2	Marginal	Defective or deteriorated component(s) in need of replacement; exceeded useful life
1	Poor	Critically damaged component(s) or in need of immediate repair; well past useful life



PHOTOS







Transit Facility Assessment



Field Investigator rbelous@wendelcompanies.com

		MENT	

Site	ASM
Room	Exterior
Category	Electrical
Component Name	Site lighting

Physical Condition	Good
Comment	Staff vehicle parking area is illuminated by using 16ft pole mounted MH luminaries. Show signs of deterioration of weather seal around the lens. Some luminaries indicat and dust in the optical compartment. One luminarie base is cracked.

- 1 EXELLENT well maintained and in like new condition; no further action is required with respect to physical condition.

 2 GOOD Stayl successor, a round condition, well maintained but exhibits sign of use/leves; minor action required to resolve a round condition, well maintained but exhibits sign of use/leves a closin required to maintain functionality over near future.

 3 MOCRATE Turnous, ill moving condition but exhibits testing sign of use/leves, a closin required to maintain functionality over near future.

 4 POOR marginally functional, in working condition but exhibits critical evidence of user/leves, flight maintenance, immediate attention required.

 5 MORATIFERCORY no longer furtherist or about that full immediate replacement or exercises rehabilishings in required.

rocess	Condition	Good

Comment

- DeCELENT fully functional in intended role, meets current code/regulations without further modification
 Co000 functional but requires regular maintenance.
 MOCEPATE
 PROFESSION currently in service but function may be/will be reduced without immediate attention.
 DISATESPACTORY

PROPOSED IMPROVEMENTS

Proposed Improvement	Replace weather seals for 9 fixtures or replace with LED.
	ground fixtures, replace with LED.

Centerpointe Corporate Park, 375 Essjay Road, Suite 200, Williamsville, NY 14221 p 716.688.0766 w wendelcompanies.com

ARCHITECTURE ENGINEERING PLANNING ENERGY EFFICIENCY CONSTRUCTION MANAGEMENT

Transit Facility Assessment



DATE 2016-11-15

eld investigator	jboje@wendelcompanies.com

FIELD ASSESSMENT	
Site	ASM
Room	145 Vehicle wash
Category	Structural
Component Name	Bus wash area

nysical Condition	Poor	

- DESCLERIT well maintained and in like new condition; no further action is required with respect to physical condition.
 Co000 high functional, in sound condition, well maintained but enhalts signs of use/wear, minor action required.
 MODERATE functional, in working condition to uterinities designed from user, action required maintained by the maintained of the signs of user, action required maintained in the signs of user and user a sign of user and user.
 A MODERATE functional, in working condition but shifteds critical evidence of user/wear, high maintainance, immediate attended and the sound of user and user.
 A MODERATE function is user and user and

Process Condition	Poor
Comment	
- EXCELLENT: fully functional in inten	ded role: meets current code/restulations without further modification.

- T DICELLENT-suly functional in intended role, meets current code/regulations without further 2 000D functional but requires regular maintenance.
 3 MOCRATE 4 PORR currently in service but function may be/will be reduced without immediate attention. 5 URSATISSTORY

PROPOSED IMPROVEMENTS

Proposed Improvement	Masonry cracks should be routed out and filled with sealant. In addition, water damaged masonry should be
	repaired and sealed.

PHOTOS



West wall water damage

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Public Transit District Capital Plan

Summary

Priority	ltem	Cost	
1	Electrical Code Issues	\$ 41,397.13	
1A	Replace Roof	\$ 2,697,227.16	
2	HVAC	\$ 1,653,928.20	
3	Gas Storage Dispensing Facility	\$ 478,328.13	
4	Outlets for Block Heaters	\$ 28,699.69	
5	Lifts in the Maintenance Shop	\$ 721,840.63	
6	Canopy at East Garage	\$ 1,230,126.35	
7	Improvements at the Hub	\$ 586,882.52	
8	Roof Between Shop & Garage	\$ 1,423,803.67	
9	Bird Netting	\$ 87,100.94	
10	Replace Diesel Tanks	\$ 493,112.81	
11	Electrical - other	\$ 698,446.03	
12	All Other	\$ 1,286,418.56	

Total \$ 11,385,914.69



Expected Outcomes

- Use New (more detailed) Asset Inventory and Facility Assessment as Decision Support Tools;
- Use Initial Facility Assessment as a Benchmark and Foundation for Assessment Cycle (4 Years)
- Inform and Improve the Accuracy and Effectiveness of Capital Programming;
- Inform the Investment Prioritization Process;
- Prevent Systems from Failing Before Replacement; and
- Ensure SGR "The state at which an asset can be operated [safely] at a full level of performance".

Larger TAM Goals

- Reduced Safety Risks
- Increased System Reliability
- Reduced Maintenance Costs
- Overall Improvement in Safety and Performance



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Software – Sage[®] Fixed Asset Solution