



**TRANSIT ASSET MANAGEMENT
PLAN**

OCTOBER 2018

**Accountable Executive
Rick Elizondo, CFO Gulf Coast Center**

**Connect Transit Transit Asset
Management Plan
Rick Elizondo, Accountable Executive**

INTRODUCTION

Connect Transit is the Transit division of the Gulf Coast Center (GCC). GCC is a regional Mental Health, Mental Retardation and Recovery services Center established in Galveston County in 1966 and Brazoria County in the mid-1970's. At first, Connect Transit operated only demand response service for GCC patients. In 2008, Connect Transit started the Mainland Transit fixed-route service in the Texas City/La Marque Urban Area. In 2010, Connect developed and started servicing Southern Brazoria county with fixed-route service in the Lake Jackson/Angleton Urban Area. Today, Connect serves San Leon / Bacliff, Texas City, La Marque, Dickinson, Clute, Lake Jackson, Freeport, and Angleton with both fixed-route complimented with ADA services. Connect Transit also operates Demand Response services in both counties in the rural and urban areas. Connect also operates the League City Park & Ride which operates inside and between League City and the City of Galveston.

TAM VISION

The purpose of developing the Connect Transit TAM Plan is to aid Connect in achieving and maintaining a state of good repair (SGR) of all its transportation assets. SGR is the condition in which a capital asset is able to operate at a full level of performance. This means the asset:

1. Is able to perform its designed function,
2. Does not pose a known unacceptable safety risk, and
3. Its lifecycle investments have been met or recovered.

TAM and SGR POLICY

The Moving Ahead for Progress in the 21st Century Act (MAP – 21) required the Secretary to develop rules to establish a system to monitor and manage public transportation assets to improve safety and increase reliability and performance, and to establish performance measures. The Fixing America's Surface Transportation (FAST) Act reaffirmed this requirement. On July 26, 2016, FTA published the Transit Asset Management (TAM) Final Rule.

Their definition states, "Transit Asset Management is the strategic and systematic practice of procuring, operating, inspecting, maintaining, rehabilitating, and replacing transit capital assets to manage their performance, risk, and costs over their life cycles for the purpose of providing safe, cost effective, and reliable public transportation". TAM uses transit asset condition to guide how to manage capital assets and prioritize funding to improve or maintain a SGR.

Connect Transit is a Tier II transit provider. Tier II providers are subrecipients of 5311 funds, or an American Indian Tribe, or own, operate, or manage less than 101 vehicles across all fixed

route modes, or less than 101 vehicles in one non-fixed route mode.

Connect Transit has chosen to develop its own plan rather than participating in the Texas Department of Transportation's group plan.

PERFORMANCE TARGETS & MEASURES

Asset Category – Performance Measure	Asset Class	2019 Target
Revenue Vehicles Age - % of revenue vehicles within a particular asset class that have met or exceeded their useful Life Benchmark (ULB)	BU – BUS	17%
	CU – Cutaway Bus	17%
	VN – Van	17%

Asset Category – Performance Measure	Asset Class	2019 Target
Facilities Condition - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	Administration	0%
	Parking Structures	0%
	Passenger Facilities	0%

ROLES AND RESPONSIBILITIES

Individual	Role / Responsibility
Rick Elizondo, Gulf Coast Center	Chief Financial Officer, Accountable Executive
Sean Middleton, TGC, Connect Transit	Transit Director, Consultant
Theodore Ross, Connect Transit	Transportation Operations Manager, Owner of the TAM
Diane Jones, Connect Transit	Fleet Manager, Updating and Monitoring

ASSET PORTFOLIO – Asset Register

Asset Category	Asset Class	Asset Name	Make	Model	Count	ID/Serial No.	Asset Owner	Acquisition Year	Vehicle Mileage	Replacement Cost/Value
Equipment	FORD F-150	CONNECT TRANSIT	TRUCK	2010		1FTEW1C85AFA15149	CONNECT TRANSIT	2010	213,994	\$24,500.00
Equipment	MV - Mini-van	CONNECT TRANSIT	MINI VAN	2008		1GBDV13W18D207711	CONNECT TRANSIT	2008	178,200	\$33,210.00
RevenueVehicles	BU - Bus	CONNECT TRANSIT	GILLIG	2012		15GGB2710C1179425	CONNECT TRANSIT	2012	264,602	\$467,820.00
RevenueVehicles	BU - Bus	CONNECT TRANSIT	GILLIG	2012		15GGB2716B1179427	CONNECT TRANSIT	2012	296,427	\$467,820.00
RevenueVehicles	BU - Bus	CONNECT TRANSIT	GILLIG	2012		15GGB2716C1179428	CONNECT TRANSIT	2012	269,178	\$467,820.00
RevenueVehicles	BU - Bus	CONNECT TRANSIT	GILLIG	2012		15GGB2718C1179429	CONNECT TRANSIT	2012	301,565	\$467,820.00
RevenueVehicles	BU - Bus	CONNECT TRANSIT	GILLIG	2012		15GGB2714C1179430	CONNECT TRANSIT	2012	316,279	\$467,820.00
RevenueVehicles	BU - Bus	CONNECT TRANSIT	NEW FLYER	2014		5FYD8FV13EB045279	CONNECT TRANSIT	2014	123,950	\$443,709.17
RevenueVehicles	BU - Bus	CONNECT TRANSIT	NEW FLYER	2014		5FYD8FV1XEBO45280	CONNECT TRANSIT	2014	204,563	\$443,709.17
RevenueVehicles	BU - Bus	CONNECT TRANSIT	NEW FLYER	2014		5FYD8FV11EB045281	CONNECT TRANSIT	2014	138,264	\$443,709.17
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	FORD E-450	2003		1FDWE45F53HB90055	CONNECT TRANSIT	2003	110,960	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	FORD E-450	2003		1FDWE45F73HB90056	CONNECT TRANSIT	2003	94,916	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	FORD E-450	2007		1FDXE455SO7DB43479	CONNECT TRANSIT	2007	305,324	\$60,252.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	FORD E-450	2007		1FDXE455O7DB43482	CONNECT TRANSIT	2007	386,787	\$60,252.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	FORD E-450	2008		1FD4E45548DA32647	CONNECT TRANSIT	2008	294,454	\$59,462.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2009		1FD4E45549DA37793	CONNECT TRANSIT	2009	339,512	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2009		1FD4E45589DA37795	CONNECT TRANSIT	2009	324,618	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2009		1FD4E455X9DA37796	CONNECT TRANSIT	2009	261,013	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010		1FD4E4F52ADA1180	CONNECT TRANSIT	2010	327,184	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010		1FD4E4F54ADA1181	CONNECT TRANSIT	2010	317,563	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010		1FD4E4F58ADA1183	CONNECT TRANSIT	2010	272,718	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010		1FD4E4F5XADA1184	CONNECT TRANSIT	2010	333,507	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010		1FD4E4F51ADA1185	CONNECT TRANSIT	2010	302,086	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010		1FD4E4F53ADA1186	CONNECT TRANSIT	2010	268,785	\$59,170.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GOSHEN	2010		1FD4E4FP4ADA32401	CONNECT TRANSIT	2010	236,462	\$67,657.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GOSHEN	2010		1FD4E4FP8ADA32403	CONNECT TRANSIT	2010	255,545	\$67,657.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GOSHEN	2010		1FD4E4FP1ADA32405	CONNECT TRANSIT	2010	385,794	\$67,657.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GOSHEN	2010		1FD4E4FP3ADA32406	CONNECT TRANSIT	2010	312,914	\$67,657.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GOSHEN	2010		1FD4E4FP5ADA32407	CONNECT TRANSIT	2010	279,639	\$67,657.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2013		1FD4E4FSODDA93267	CONNECT TRANSIT	2013	219,602	\$32,180.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2013		1FD4E4F57DDA93301	CONNECT TRANSIT	2013	194,240	\$32.18
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2013		1FD4E4F57DDA93329	CONNECT TRANSIT	2013	189,806	\$32,180.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2016		1FDG5GY8GEB63512	CONNECT TRANSIT	2016	41,441	\$78,663.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2016		1FDG5GY4GEB56900	CONNECT TRANSIT	2016	53,114	\$78,663.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2016		1FDG5GYXGEB56898	CONNECT TRANSIT	2016	44,210	\$78,663.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	STARCRAFT	2016		1FDG5GY1GEB56899	CONNECT TRANSIT	2016	38,961	\$78,663.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GLAVAL UNIVERSAL	2018		1FD4E4F56HDC61967	CONNECT TRANSIT	2018	40,982	\$78,663.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	GLAVAL UNIVERSAL	2018		1FD4E4F52HDC57298	CONNECT TRANSIT	2018	39,073	\$78,663.00
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT	EL DORADO	2010			CONNECT TRANSIT			
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT	MINI VAN	2008		1GBDV13W48D206911	CONNECT TRANSIT	2008	162,545	\$33,210.00
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT	MINI VAN	2010		2D4RN4DE8AR205906	CONNECT TRANSIT	2010	192,692	\$44,726.15
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT	MINI VAN	2010		2D4RN4DEXAR205907	CONNECT TRANSIT	2010	177,208	\$44,726.15
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT	MINI VAN	2010		2D4RN4DE3AR205909	CONNECT TRANSIT	2010	135,569	\$44,726.15
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT	MINI VAN	2010		2D4RN4DE1AR205911	CONNECT TRANSIT	2010	223,747	\$44,726.15

ASSET PORTFOLIO – Revenue Vehicle (Rolling Stock) Condition Data

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
RevenueVehicles	BU - Bus	CONNECT TRANSIT		15GGB2710C1179425	6	264,602	\$467,820.00	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		15GGB2716B1179427	6	296,427	\$467,820.00	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		15GGB2716C1179428	6	269,178	\$467,820.00	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		15GGB2718C1179429	6	301,565	\$467,820.00	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		15GGB2714C1179430	6	316,279	\$467,820.00	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		5FYD8FV13EB045279	4	123,950	\$443,709.17	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		5FYD8FV1XE045280	4	204,563	\$443,709.17	12	No
RevenueVehicles	BU - Bus	CONNECT TRANSIT		5FYD8FV11EB045281	4	138,264	\$443,709.17	12	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDWE45F53HB90055	15	110,960	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDWE45F73HB90056	15	94,916	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDXE45SSO7DB43479	11	305,324	\$60,252.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDXE45SO7DB43482	11	386,787	\$60,252.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E45S48DA32647	10	294,454	\$59,462.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E45S49DA37793	9	339,512	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E45S89DA37795	9	324,618	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E45S9DA37796	9	261,013	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E4FS2ADA1180	8	327,184	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E4FS4ADA1181	8	317,563	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FD4E4FS8ADA1183	8	272,718	\$59,170.00	7	Yes

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FSXADA11184	8	333,507	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FS1ADA1185	8	302,086	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FS3ADA1186	8	268,785	\$59,170.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FP4ADA32401	8	236,462	\$67,657.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FP8ADA32403	8	255,545	\$67,657.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FP1ADA32405	8	385,794	\$67,657.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FP3ADA32406	8	312,914	\$67,657.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FP5ADA32407	8	279,639	\$67,657.00	7	Yes
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FSODDA93267	5	219,602	\$32,180.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FS7DDA93301	5	194,240	\$32.18	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4FS7DDA93329	5	189,806	\$32,180.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDGF5GY8GEB63512	2	41,441	\$78,663.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDGF5GY4GEB56900	2	53,114	\$78,663.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDGF5GYXGEB56898	2	44,210	\$78,663.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDGF5GY1GEB56899	2	38,961	\$78,663.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4F56HDC61967		40,982	\$78,663.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT		1FDFE4F52HDC57298		39,073	\$78,663.00	7	No
RevenueVehicles	CU - Cutaway Bus	CONNECT TRANSIT						4	Yes
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT		1GBDV13W48D206911	10	162,545	\$33,210.00	4	Yes
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT		2D4RN4DE8AR205906	8	192,692	\$44,726.15	4	Yes
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT		2D4RN4DEXAR205907	8	177,208	\$44,726.15	4	Yes

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT		2D4RN4DE3AR205909	8	135,569	\$44,726.15	4	Yes
RevenueVehicles	MV - Mini-van	CONNECT TRANSIT		2D4RN4DE1AR205911	8	223,747	\$44,726.15	4	Yes

MANAGEMENT APPROACH

Decision Support

The Federal Transit Administration (FTA) funds, which are allocated to the Gulf Coast Center – Connect Transit, are crucial to the continued operation of public transportation services in Galveston and Brazoria Counties. Connect Transit is committed to fostering a safe, mobility focused public transportation system. Connect Transit is a transportation option that relieves congestion, helps maximize capacity on roadways, improves air quality, reduces fuel consumption and connects people of all ages and abilities with their surrounding communities. Maintaining our transit fleet in a state of good repair is critical to providing a safe, reliable, and comfortable environment for our operators and the traveling public.

Useful life is the expected lifetime of project property, or the acceptable period of use in service. Useful life of revenue rolling stock begins on the date the vehicle is placed in revenue service and continues until it is removed from service. Connect Transit utilizes the FTA's standards for determining useful life, reflected in the table below:

Vehicle	Seats	Useful Life
Heavy Duty Large Bus (35' to 40' and articulated buses) Approx. 33,000 to 40,000 GVW	27 to 40	12 Years or 500,000 Miles
Heavy Duty Small Bus (30' to 35') Approx. 26,000 to 33,000 GVW	26 to 35	10 Years or 350,000 Miles
Medium Duty and Purpose-Built Bus (25' to 35') Approx. 10,000 to 16,000 GVW	22 to 30	7 Years or 200,000 Miles
Light Duty Mid-Sized buses (25' to 35') Approx. 10,000 to 16,000 GVW	16 to 25	5 Years or 150,000 Miles
Light Duty Small Bus, Cutaways, Regular & Modified Van (16' to 28') Approx. 6,000 to 14,000 GVW	10 to 22	4 Years or 100,000 Miles

Additionally, asset conditions are determined based off of the FTA’s Transit Economic Requirements Model (TERM) as outlined below:

Condition	Description	Mileage	Rating
Excellent	New Asset; No visible defects		4.8 – 5.0
Good	Asset showing minimal signs of wear; some (Slightly) defective or deteriorated component(s) but is overall functional		4.0 – 4.7
Adequate	Asset has reached its mid-life; some moderately defective or deteriorated component(s)	50% - 99% of Useful Life	3.0 – 3.9
Marginal	Asset reaching of just past the end of its useful life; increasing number of defective or deteriorated component(s) and increasing maintenance needs	100% - 124% of Useful Life	2.0 – 2.9
Poor	Asset is past its useful life and is in need of immediate repair or replacement; may have critically damaged components(s)	125% or more of Useful Life	1.0 – 1.9

The FTA defines a useful life benchmark (ULB) as the expected lifecycle of a capital asset for a particular transit provider’s operating environment or the acceptable period of use in service for a particular transit provider’s operating environment. ULB is not the same as an asset’s useful life. ULB takes into account a provider’s unique operating environment such as geography, service frequency and other factors. The following is the ULB that connect uses: Bus – 14 years, Cutaway Bus – 10 years, Minivan – 8 Years, Van – 8 years.

Decision Support Tools

The following tools are used in making investment decisions:

Process / Tool	Brief Description
Management Activities and Processes	Maintaining a comprehensive list of all capital assets and rolling stock. <small>Page 7 of 14</small>
System Performance Evaluation	Transit infrastructure and vehicles are well maintained and replaced as necessary.
Quality of Service Checks	Surveys to ensure infrastructure and vehicles meet customer expectations.

Risk Management

Connect Transit tries to minimize risk by using this risk identification and mitigation matrix:

Risk	Mitigation Strategy
Pre- and Post-Trip inspections not being conducted	Pre- and Post-Trip inspections to be conducted in compliance with applicable Federal and State requirements.
Scheduled Maintenance not being conducted	Adhere to preventative maintenance plan and / or minimum OEM standards.
Annual Vehicle Inspections not being conducted	Annual Vehicle Inspection to be conducted in compliance with applicable Federal and State requirements.
Outdated / Expired Equipment	Adhere to preventative maintenance plan and / or minimum OEM standards. Inspect during annual inspections.
Vehicle Failures / Malfunctions	Reviewed during site visits and daily by the fleet manager.
Vehicle Condition	Reviewed during site visits and weekly by the fleet manager.
Age	Reviewed during quarterly inventory report evaluation and weekly by the fleet manager
Mileage	Reviewed during quarterly inventory report evaluation and weekly by the fleet manager.

PROPOSED PROJECT LISTING

Project Year	Project Name	Asset / Asset Class	Cost	Priority
2019	Texas City Admin Bldg and Park & Ride	Facilities	\$7,000,000	High
2019	MD Bus Acquisition (4)	Revenue Vehicle	\$ 600,000	High
2019	Maintenance & Operations Software	Facilities	\$ 500,000	High
2020	MD Bus Acquisition (4)	Revenue Vehicle	\$ 600,000	High
2020	SBCT Maintenance & Admin Bldg.	Facilities	\$3,000,000	High