
An aerial photograph of a two-lane asphalt road that curves through a dense, green forest. The road is the central focus, leading the viewer's eye into the distance. The surrounding trees are lush and varied in shades of green. The overall atmosphere is serene and natural.

Alternate Transportation System

Selma to Montgomery (Voting Rights Act) National Historic Trail

Statement of Purpose



The plan is in support of environmental justice issues in underserved communities and cities along the Voting Rights Act Trail, such as:

Lack of access to medical care and job opportunities

Food dessert issues

Lack of access to educational opportunities leading to increased employment opportunities.

Lack of Access to Medical Care

Vaughan Regional Medical Center – 30.5 mi.

Selma Baptist Hospital – 30.5 mi.

Baughn Medical Center – 30.5 mi.

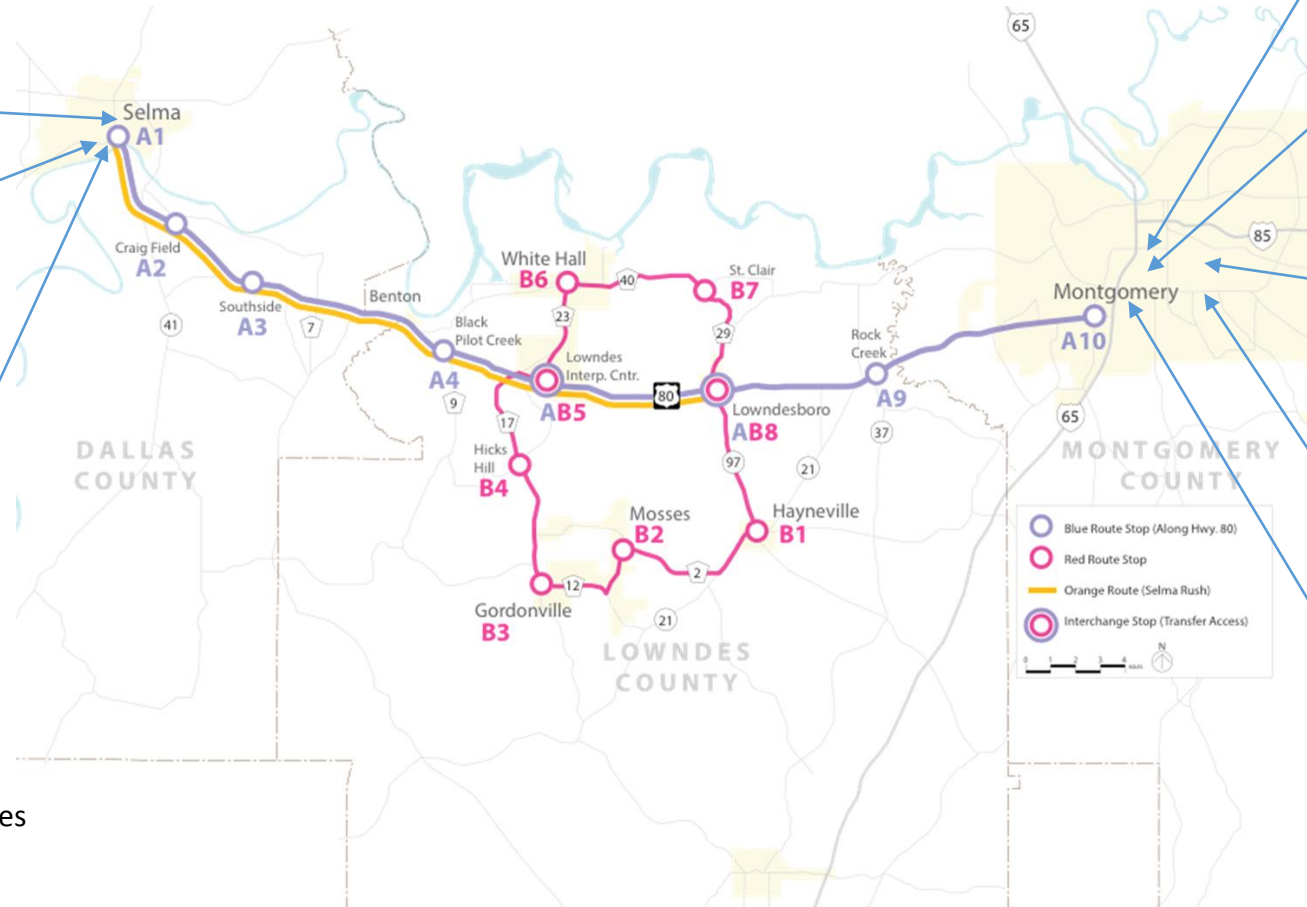
Jackson Hospital – 34.9 mi.

Baptist Medical Center South – 32.9 mi.

Baptist Medical Center East – 42.4 mi.

Children’s Hospital of Alabama – 42.4 mi.

Central Alabama Veterans Health Care – 38.6 mi.



*Using Whitehall, Al. as a reference, distances may vary.

Lack of Access to Educational Opportunities

Selma University – 27 mi.

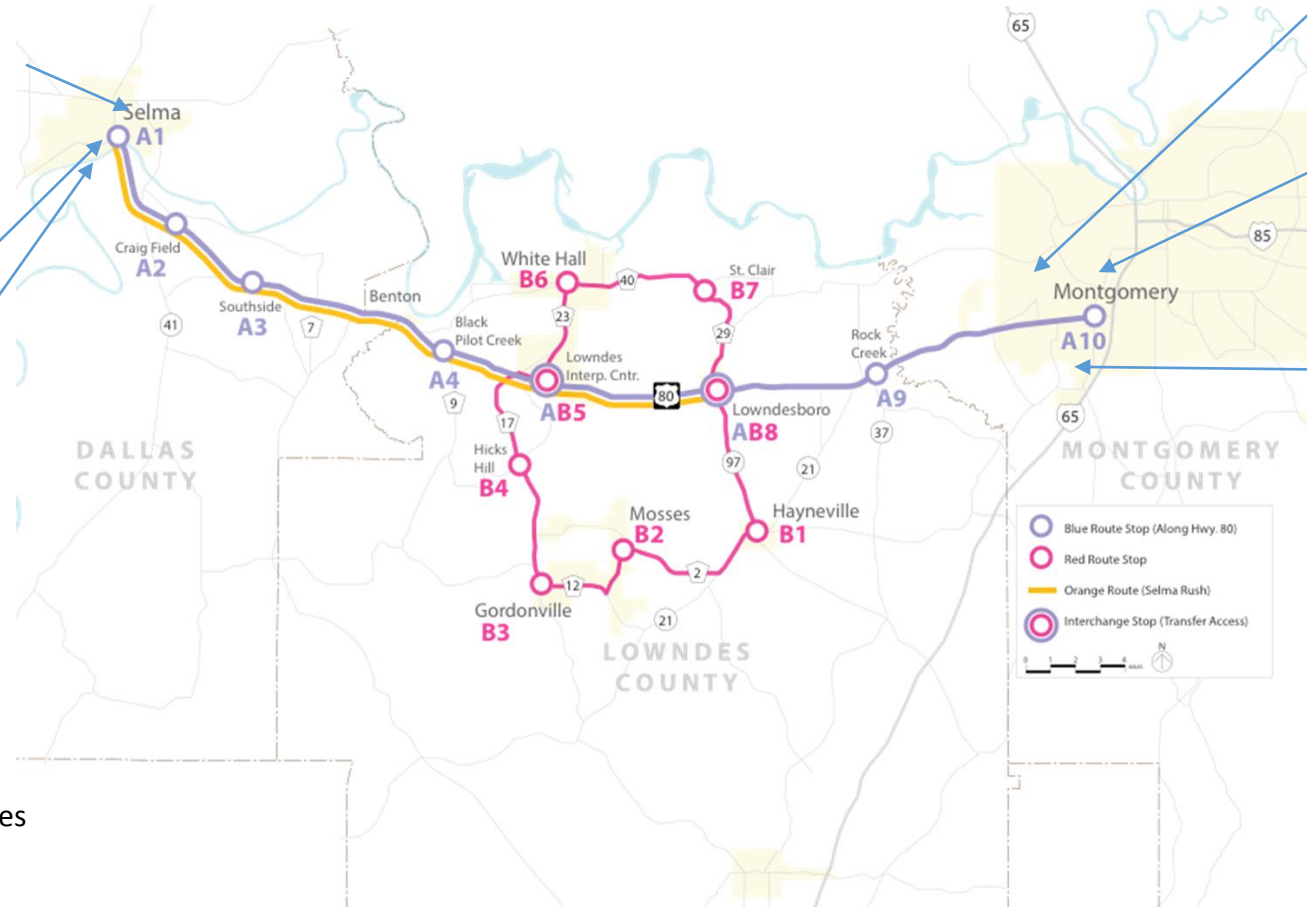
Concordia College – 26.8 mi.

Wallace Community College – 28.8 mi.

Alabama State University – 29 mi.

Faulkner University – 34 mi.

Auburn University @ Montgomery – 35 mi.



*Using Whitehall, Al. as a reference, distances may vary.

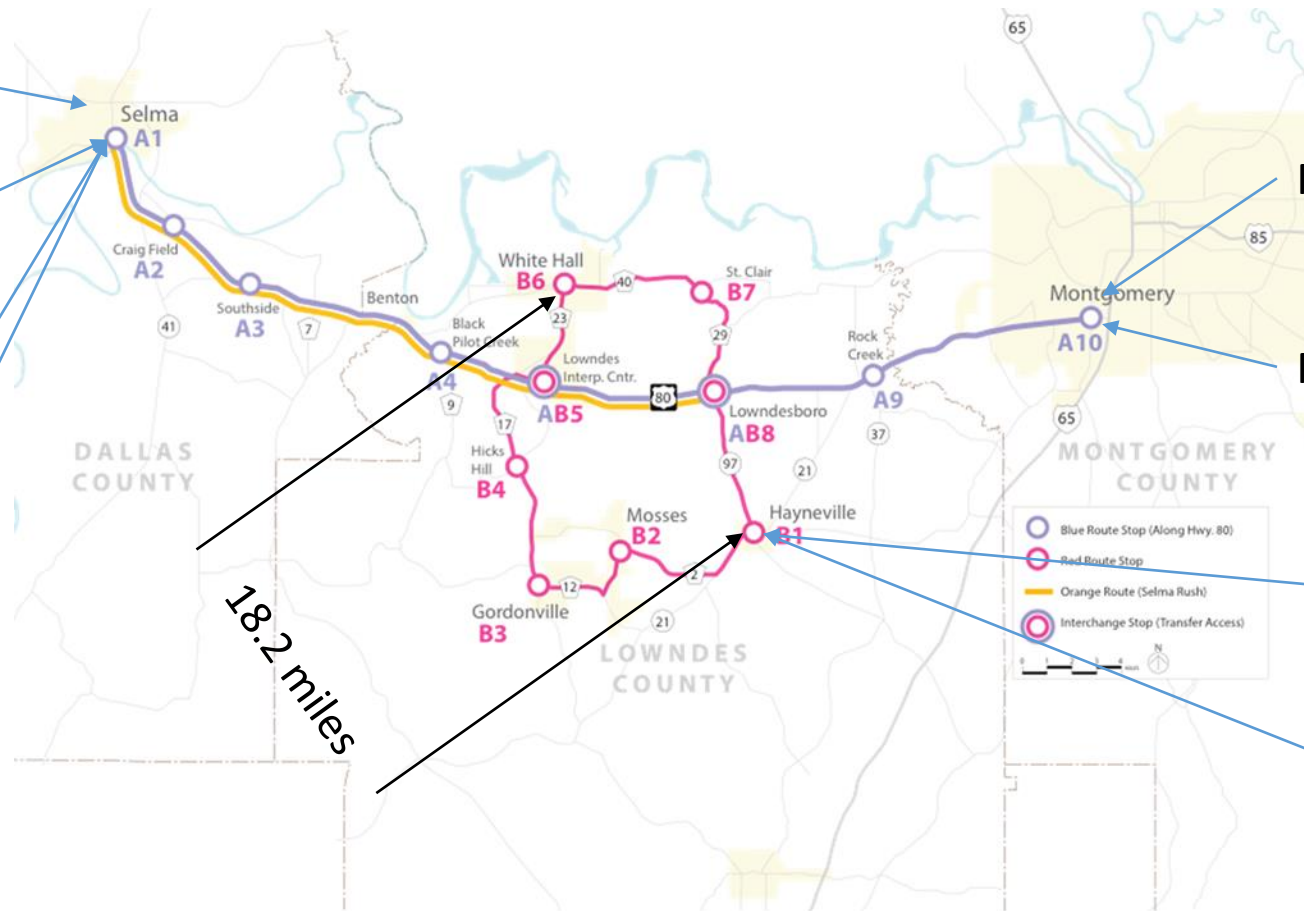
Food Dessert Issues

Valley Grande Grocery—
33.8 mi.

Walmart Supercenter —
25.8 mi.

Washington Street Super
Market— 25.6 mi.

Winn-Dixie — 28.7 mi.



Piggly Wiggly- 35 mi.

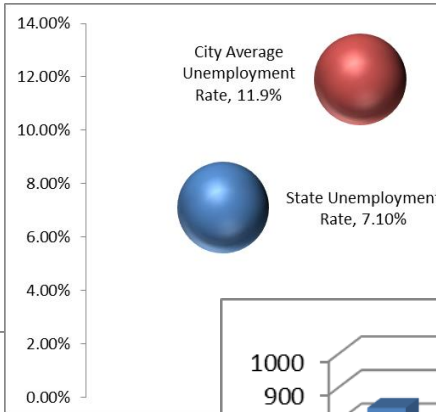
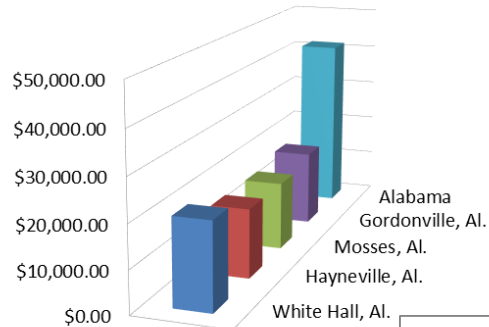
Publix Supermarket - 35 mi.

Langley Inc.

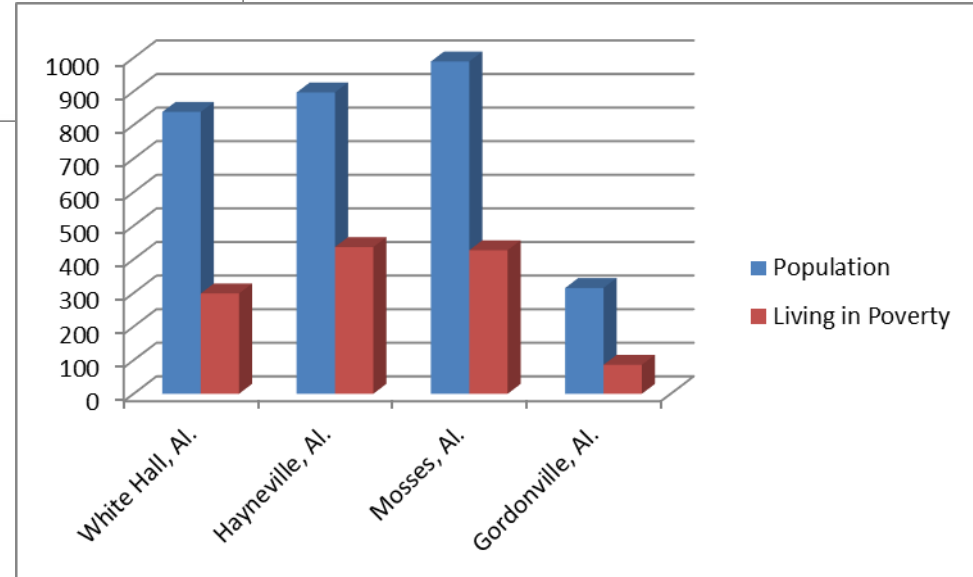
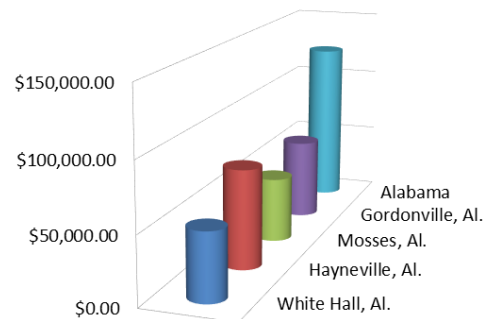
Hayneville Associated
Grocery

EPA Regional Community of Interest

Median Income



Median Home Value



*citydata.com

Components Addressed

- September 2013 – The creation of the Tent City Economic Empowerment Group (TCEEG), an umbrella group for cities in the center of the Trail (White Hall, Mosses and Hayneville), which work together to address issues and share resources.
- September 2014 – The National Park Service (NPS) provided a grant of \$50,000 to Tuskegee University (TU) for development of the alternate transportation plan.
- October 2014 – EPA HQ Brownfield Office committed \$30,000 worth of contractual support to assist in the planning, to include; starting the clean-up of two of the five brownfield sites to be reused as bus stops. EPA is also beginning the cleanup effort and teaching TU how to participate in the brownfield efforts.
- May 2015 - The plan was formally briefed to NPS and EPA.

***Plan for An Alternative Transportation System
Along the Selma to Montgomery
(Voting Rights Act) National Historic Trail***

**Presented To:
The Environmental Justice
Interagency Working Group**

**Washington, D.C.
June 25, 2015**

25.JUN.2015

In Appreciation:

U.S. Department of the Interior
Supt. Sandra Taylor & Staff, National Park Service

Environmental Protection Agency

Alabama Department of Transportation
Alabama Department of Environmental Management
West Alabama Transit Authority

Mayors, Officials, & Residents of Hayneville, Mosses, White Hall, and
communities of surrounding Lowndes County, AL

Mayor, Officials, & Residents of Selma, and communities
of surrounding Dallas County, AL

25.JUN.2015

Participants:

Michael Burns, Senior Advisor & CUPP Program Manager, EPA Region 4
Walter Hill, Dean, Project Director, TU
Miles Robinson, Project Co-Director, TU
Gertrude Wall, Extension Agent, TU

Tuskegee University

Robert R. Taylor School of Architecture and Construction Science
Daya Taylor, Interim Dean

Roderick Fluker, Project Co-Director, TU
Emile Dixon, Project Co-Director, TU

Students:

Megan Brightharp, Perry Couch, Zenobia Johnson, Michael Larche',
Allison Merritt, Taurean Merriweather, Taylor Shepherd, and Jaime White

25.JUN.2015

Statement of Purpose

The plan is in support of environmental justice issues in underserved communities and cities along the Voting Rights Act Trail, such as:

Lack of access to medical care and job opportunities

Food dessert issues

Lack of access to educational opportunities leading to increased employment opportunities.

Lack of access to historic landmarks and sites, which would provide important educational opportunities to youth in the underserved areas.

Lack of access to historical landmarks and sites, which would provide important educational opportunities to visitors from outside of the area, and the potential financial benefit from an increase in tourism.

Lack of access to recreational venues, which would promote healthy living options for the residents for the underserved areas.

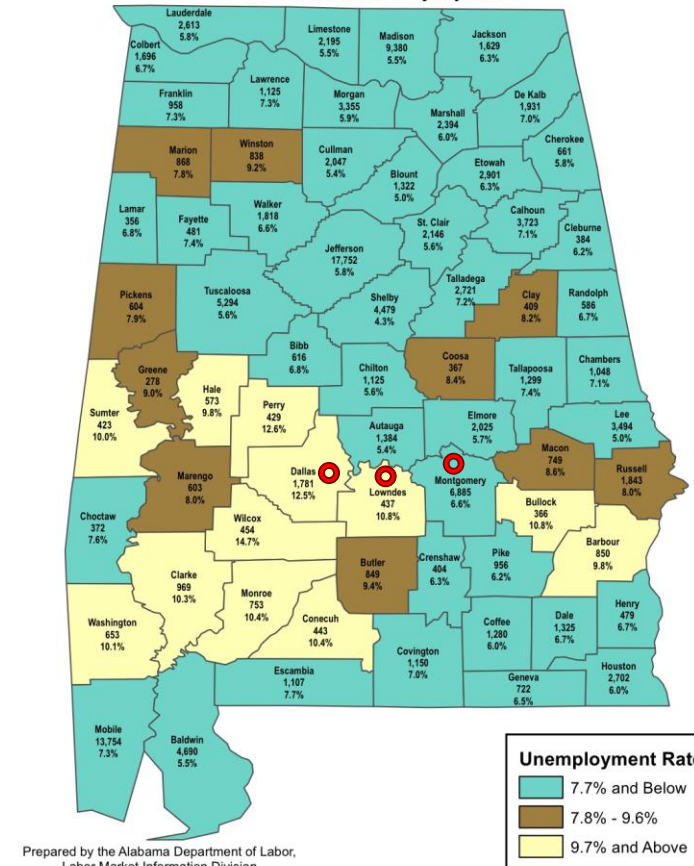
ALABAMA UNEMPLOYMENT RATE AND NUMBER UNEMPLOYED

May 2013 Preliminary

State Rate Seasonally Adjusted: 6.8%

State Rate Not Seasonally Adjusted: 6.3%

Counties Not Seasonally Adjusted



Prepared by the Alabama Department of Labor,
Labor Market Information Division

25.JUN.2015



Project Scope

To gather the requirements to determine the following:

Route for the proposed transportation

Number of bus stops to be incorporated into the routes, to include the use of brown fields sites for the purpose of redevelopment where possible

Type of vehicles to be used, and proposed locations for storage and maintenance of such vehicles

Accurate justification for the need for this transportation, to include input from citizens of the impacted areas

Draft design of bus stops, to include the use of alternate energy for lighting and other needs where possible

Estimates of potential ridership

Estimates of total project, with a breakdown of each major component

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Public Meetings & Activities

DATE	EVENT	NOTES
9/30/2014	Discussed project with Mayors from representative cities, communities in Lowndes County (Mosses, White Hall)	
10/9/2014	Discussed project, bus options, stops, with West Alabama Transit	
10/13/2014	Public Meeting - Mosses (Lowndes County)	Attendants: (Approx. 40)
10/15/2014	Public Meeting - White Hall (Lowndes County)	Attendants: (Approx. 10)
10/27/2014	Public Meeting - Selma (Dallas County)	Attendants: (Approx. 15)
10/29/2014	Public Meeting - Hayneville (Lowndes)	Attendants: (Approx. 25)
1/17/2015	Document Potential Stop Sites with Students; Viewed 'Selma' movie	

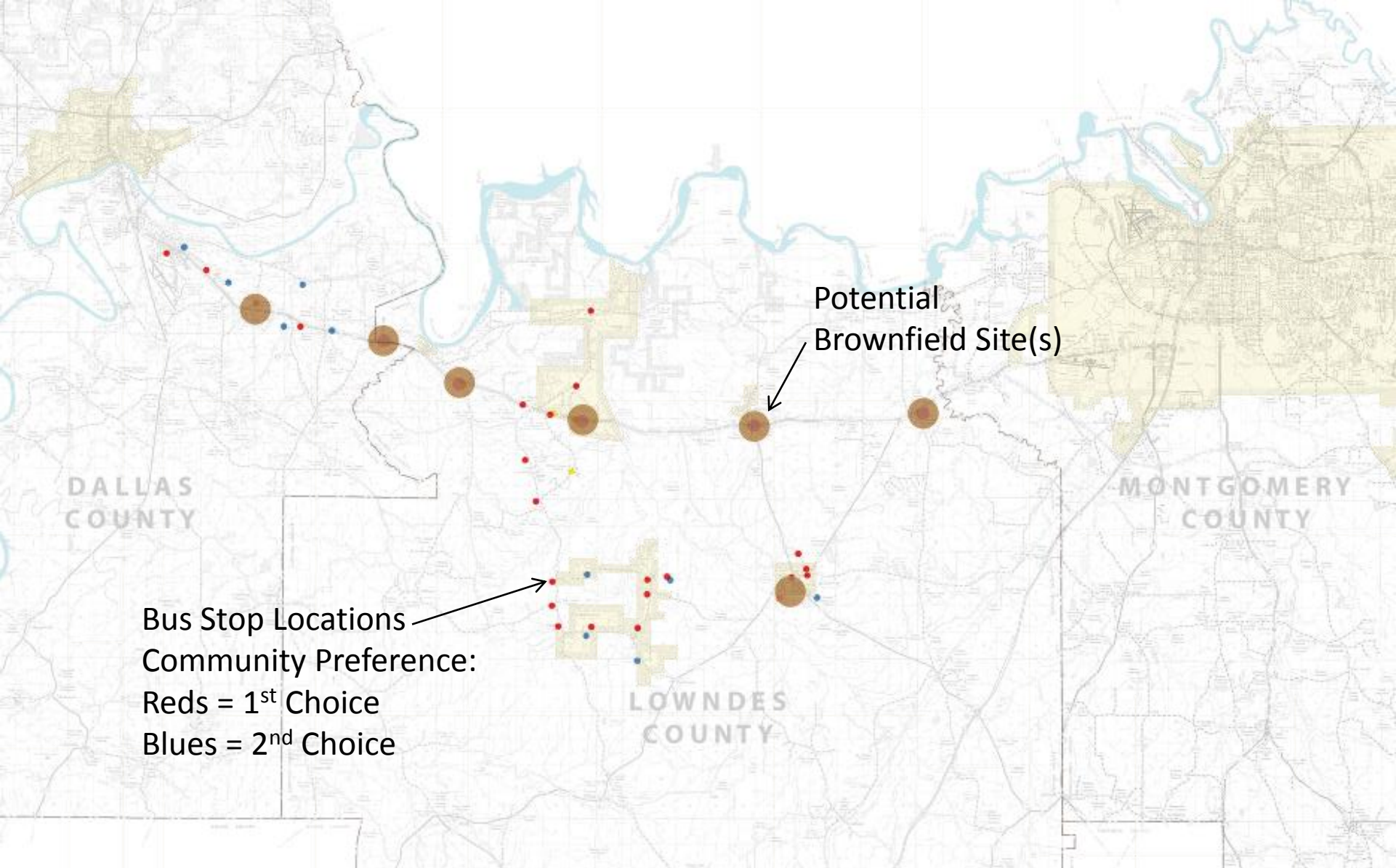
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Public Meeting _ Mosses, AL

Public meetings were held in Hayneville, Mosses, White Hall, and Selma to receive direct input on preferences for locations and number of bus stops for transit.

25.JUN.2015



Composite Map _ Community Stop Preferences & Potential Brownfield Sites

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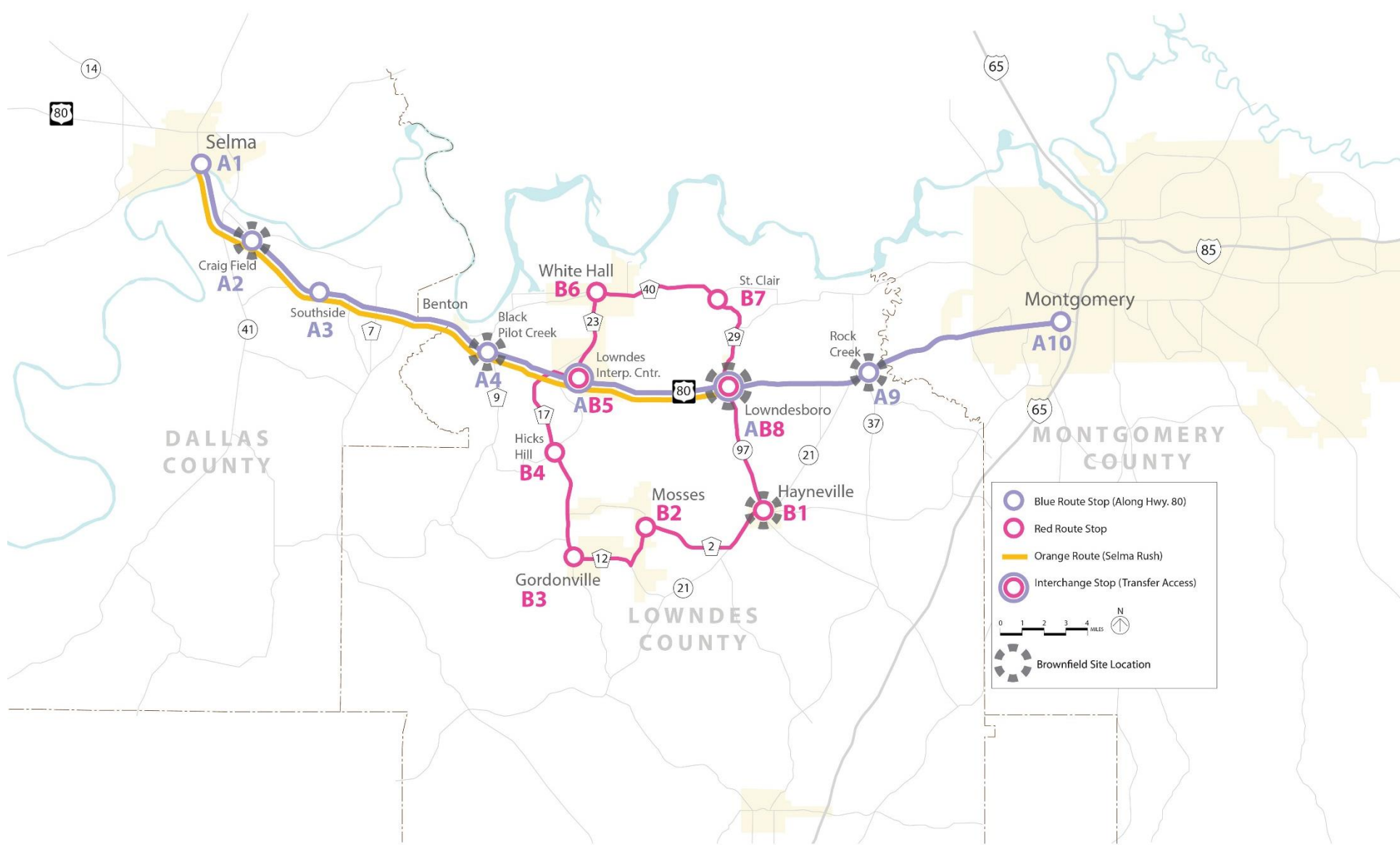
Tuskegee Student Design Session _ Weekly Meetings to Discuss and Develop Project Ideas

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Site Visit _ Site Visits and Route Schedule Planning

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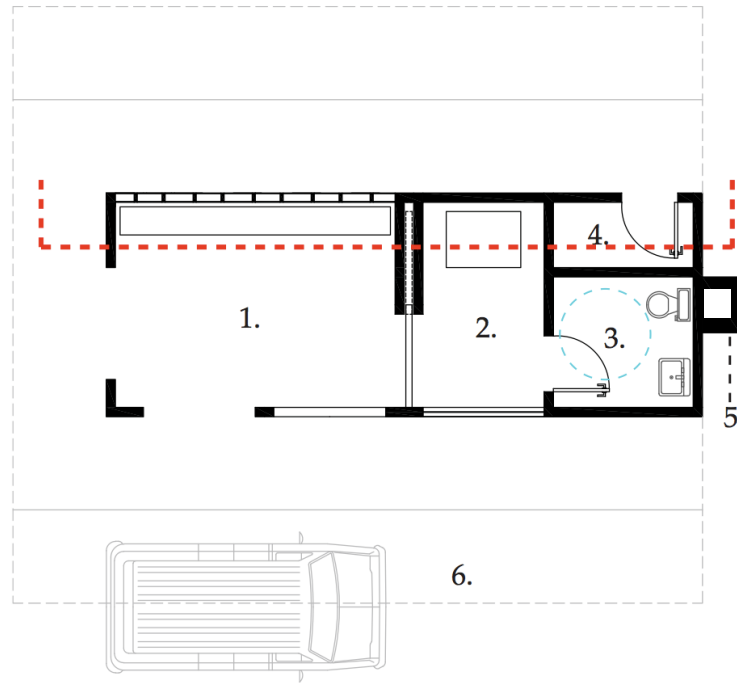


Preliminary Bus Routes Map _ 14 Potential Stop Locations Proposed: 'A' Stops are along Highway 80 and 'B' Stops are along a loop route in Lowndes County 25.JUN.2015



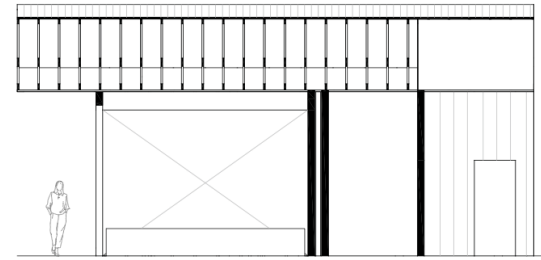
Bus Stop Design _ Medium Bus Stop Prototype

25.JUN.2015

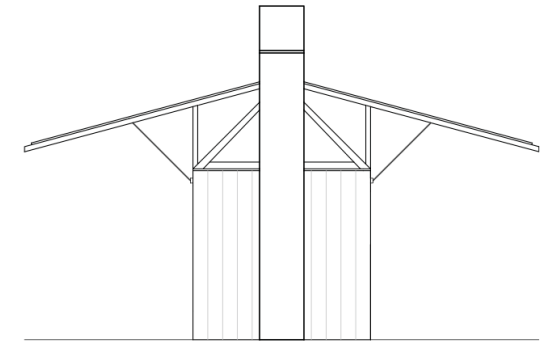


FLOOR PLAN

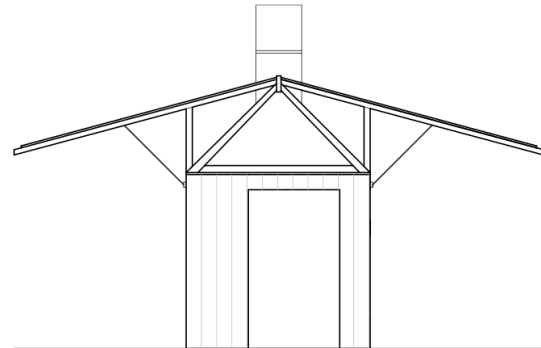
- 1. WAITING AREA
- 2. VENDING AREA
- 3. RESTROOM
- 4. MECHANICAL/STORAGE
- 5. LIGHTING TOWER
- 6. BUS DROP-OFF



SECTION



RIGHT ELEVATION



LEFT ELEVATION

Bus Stop Design _ Medium Bus Stop Prototype Plans – 400 sf

25.JUN.2015



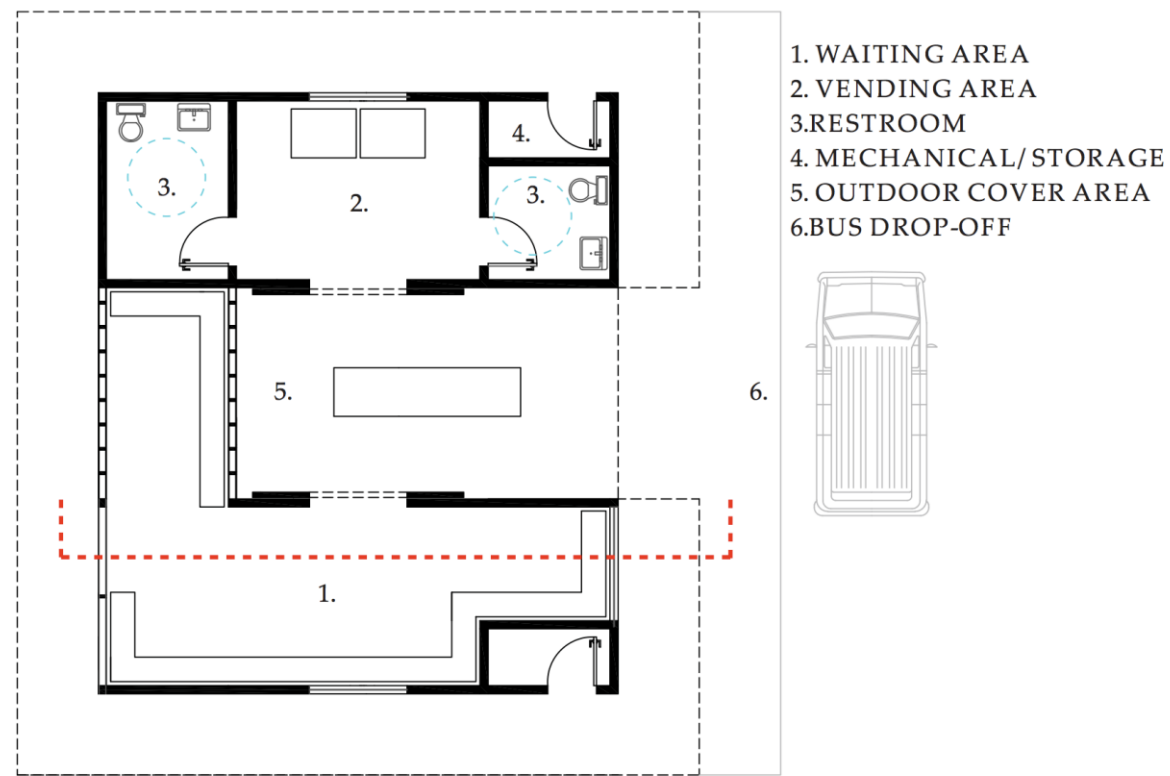
Bus Stop Design _ Medium Bus Stop Prototype

25.JUN.2015



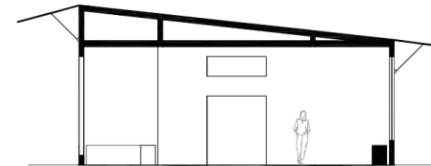
Bus Stop Design _ Connection Bus Stop Prototype

25.JUN.2015

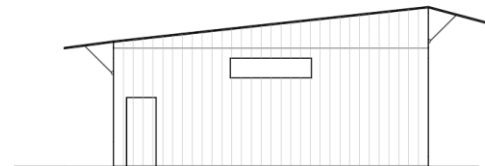


- 1. WAITING AREA
- 2. VENDING AREA
- 3. RESTROOM
- 4. MECHANICAL/STORAGE
- 5. OUTDOOR COVER AREA
- 6. BUS DROP-OFF

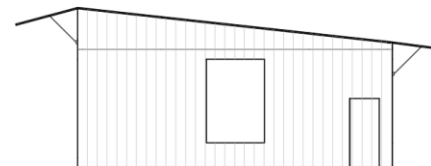
FLOOR PLAN



SECTION



REAR ELEVATION



FRONT ELEVATION

Bus Stop Design _ Large Bus Stop Prototype (AB5) – 900 sf

25.JUN.2015

Lowndes County
AL
32.271036,
-86.511971



4025 U.S 80 Selma,
AL 36701



433 US-80 BUS
Selma,
Alabama



Highway 80 _ Sample Sites for Bus Stop

25.JUN.2015

**153-199 Oak St
Hayneville, AL
36040
32.181739,
-86.581070**



**Mosses, AL
32.174008, -86.671650**



**452 Hicks Hill Rd E
Hayneville, AL 36040
32.239004, -86.747969**



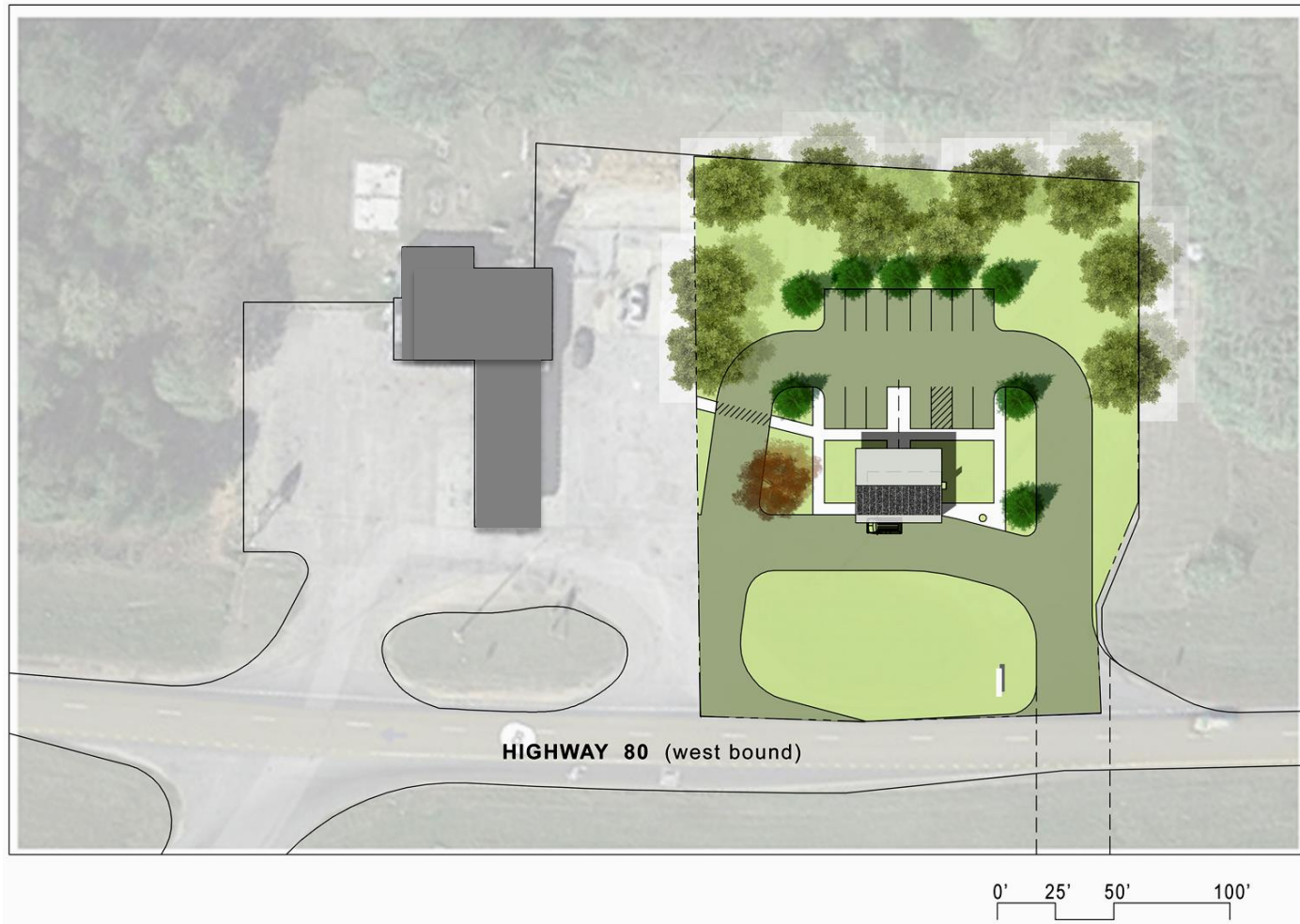
Lowndes County _ Sample Sites for Bus Stop

25.JUN.2015



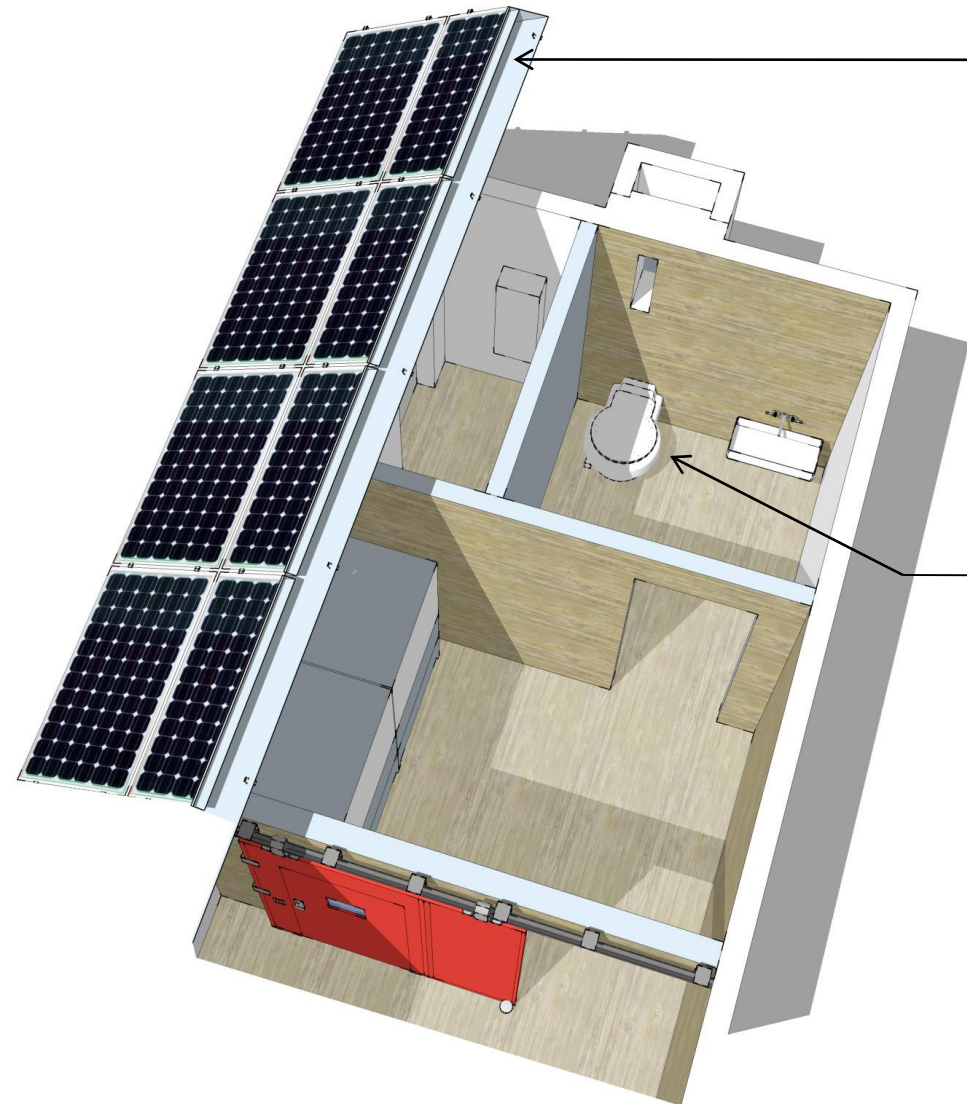
Lowndes County _ Sample 1 Acre Site for Bus Stop

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Lowndes County _ Sample Site for Bus Stop _ Site Plan

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Solar (PV) Panels at Roof - Generating Power for Lighting and Outlets

Composting Toilet – Limited Water Usage at Restrooms

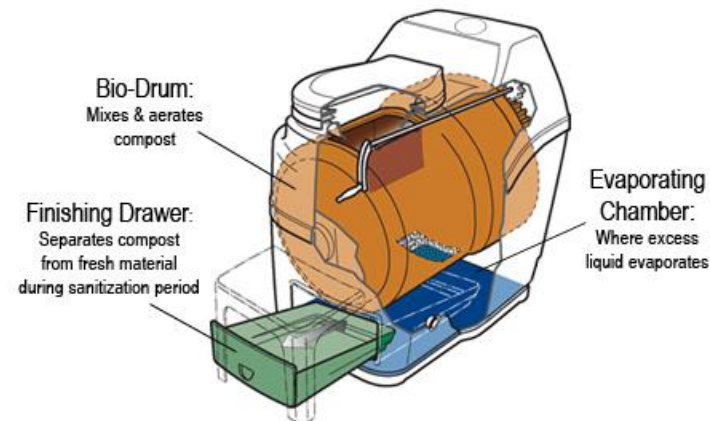
Natural Ventilation Promoted by Wall and Roof Openings

Cutaway View _ Bus Stop Environmental / Energy Systems

25.JUN.2015



Solar (PV) Panels:
 Approx. 250 SF Min.
 Array
 2 – 4 kW Grid-
 Connected System
 (3,000 kWh/yr)
 \$25,000 Budget



Composting Toilet –
 Self Contained Unit
 Vented Through Bldg.
 Stack
 \$2000 Budget

Data_ Bus Stop Environmental / Energy Systems

25.JUN.2015

ITEM *	DESCRIPTION	UNIT	UNIT COST	TOTAL COST
A	Bus Stop: Interpretative Cntr Interior Transfer Station	1	500,000	500,000
B	Sitework: Interpretative Cntr Station	1	50,000	50,000
C	Bus Stop: Exterior Stops Along Hwy. 80	5	350,000	1,750,000
D	Sitework: Hwy 80 Stops, Incl. Pull-offs	5	100,000	500,000
E	Bus Stop: Exterior Stops – Other Location(s)	6	250,000	1,500,000
F	Sitework: Exterior Stops - Other Location (s)	7	50,000	350,000
G	Bus Stop: Connection at Selma	1	100,000	100,000
	Subtotal			4,750,000
	Contingency	15%		712,500
	Subtotal			5,462,500

Preliminary Project Scope _ Cost Estimates – Bus Stop Sites

25.JUN.2015

ITEM *	DESCRIPTION	UNIT	UNIT COST	TOTAL COST
H	Project Planning, Design , & Engineering	10%		546,250
J	Bus: 16 Passenger	3	50,000	150,000
K	Bus: 25 Passenger	1	60,000	60,000
L	Bus: 25 Passenger – Alt. Fuel (CNG)	1	80,000	80,000
M	Bus: 28-30 Passenger	1	80,000	80,000
	Subtotal	6		370,000
N	Brownfield Site Remediation – 200k per Site (Est. 1.5 Acre Redevelopment Sites)	5	200,000	1,000,000
P	Site Acquisition (Market Value) – 2k per Acre (Est. 1.5 Acre Sites)	12	3,000	36,000
	Total			7,414,750

Preliminary Project Scope _ Cost Estimates – Buses, Property

25.JUN.2015



25.JUN.2015

Project Components to be Addressed

- Land Acquisition
- Site Work/ Landscaping
- Demolition
- Clean-up (to include Brownfield clean-up for re-use)
- Construction and/or Repairs
- Service Connections
- Solar Power
- Access Paving
- Equipment Purchase

Agency Share

Overall Estimate		Agency													
		DOT		HUD		HHS		DOC		EPA		USDA		DOE	
		\$	%	\$	%	\$	%	\$	%	\$	%	\$	%	\$	%
Site Acquisition and Prep.	\$2,400,000.00	\$1,600,000.00	67%	\$800,000.00	33%										
Brownfield Clean-up	\$1,000,000.00					\$300,000.00	30%	\$300,000.00	30%	\$400,000.00	40%				
Construction/Repair	\$3,850,000.00	\$3,000,000.00	78%									\$850,000.00	22%		
Equipment Purchase	\$370,000.00	\$370,000.00	100%												
Planning/Design	\$600,000.00	\$275,000.00	46%	\$55,000.00	9%			\$55,000.00	9%			\$165,000.00	28%	\$55,000.00	9%
	\$8,220,000.00	\$5,245,000.00	64%	\$855,000.00	10%	\$300,000.00	4%	\$355,000.00	4%	\$400,000.00	5%	\$1,015,000.00	12%	\$55,000.00	1%

Site Acquisition, \$36 K, 12 Sites

Site Work, \$2.15 M, 13 Sites

- National Infrastructure Investments, TIGER Discretionary Grants, **Department of Transportation, Office of the Secretary (OST) Administration Secretariat**
- Community Development Block Grants/Entitlement Grants, **Department of Housing and Urban Development, Office of Community Planning and Development**
- Paul S. Sarbanes Transit in the Parks, **Department of Transportation, Federal Transit Administration (FTA)**

Brownfield Clean-up, \$1 M, 5 Sites

- Brownfields Cleanup Grants, **Environmental Protection Agency (EPA)**
- Community Health Projects Related to Contamination at Brownfield/Land Reuse Sites, **Department of Health and Human Services (HHS), Centers for Disease Control and Prevention (CDC)**
- Economic Development Assistance Programs Application submission and program requirements for EDA's Public Works and Economic Adjustment Assistance programs, **Department of Commerce, Economic Development Administration**

Bus Stop Construction, \$3.85 M, 13 Sites

- Job Access And Reverse Commute Program– **Department of Transportation (DOT), Federal Transit Authority**
- Bus and Bus Facilities Formula Program, **Department of Transportation (DOT), Federal Transit Authority**
- National Infrastructure Investments, TIGER Discretionary Grants, **Department of Transportation, Office of the Secretary (OST) Administration Secretariat**
- Community Facilities Loans and Grants, **Department of Agriculture, Rural Housing Service**

Vehicle Purchase, \$370 K

- Capital Assistance Program for Reducing Energy Consumption and Greenhouse Gas Emissions, **Department of Transportation, Federal Transit Administration (FTA)**
- Bus and Bus Facilities Formula Program, **Department of Transportation, Federal Transit Administration (FTA)**

Project Planning, Design and Engineering; \$600 K

- Rural Community Development Initiative, **Department of Agriculture, Rural Housing Service**
- Hunger Free Communities, **Department of Agriculture, Food and Nutrition Service**
- Rural Economic Development Loans and Grants, **Department of Agriculture, Rural Business-Cooperative Service**
- Cluster Grants, **Department of Commerce, Economic Development Administration**
- Strong Cities Strong Communities (SC2) National Resource Network, **Department of Housing and Urban Development, Office of Policy Development and Research**
- Metropolitan Transportation Planning and State and Non-Metropolitan Planning and Research, **Department of Transportation, Federal Transit Administration (FTA)**
- Formula Grants for Rural Areas, **Department of Transportation, Federal Transit Administration (FTA)**
- Public Transportation Research, **Department of Transportation, Federal Transit Administration (FTA)**
- Alternatives Analysis, **Department of Transportation, Federal Transit Administration (FTA)**
- Transportation Planning, Research and Education, **Department of Transportation, Office of the Secretary (OST) Administration Secretariat**
- Inventions and Innovations, **Department of Energy**

Total Project

- \$8 M
- \$2.4 M in Site acquisition and preparation
- \$1 M in Brownfield clean-up
- \$4 M in Construction and repairs
- \$370 K in Equipment purchases
- \$600 K in Planning, design and engineering

*Estimates are approximate

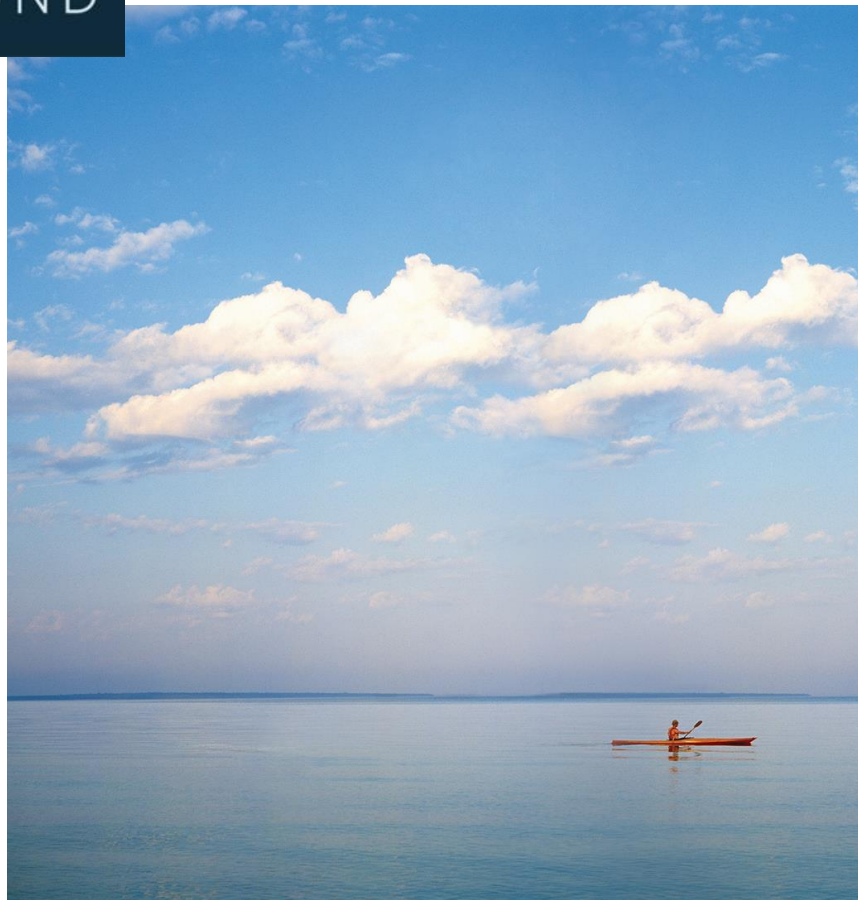
Questions



THE CONSERVATION FUND

Our Vision

The Conservation Fund works at the intersection of conservation and community—we believe that environmental protection and economic vitality are inseparable.



[conservationfund.org](https://www.conservationfund.org)