

# City of Meriden Roadway Evaluation Study (1 South Mountain Road and 600 South Mountain Road)



Presentation to City of Meriden Council











#### Study Goals and Objectives

"To assess existing and future traffic conditions and provide recommendations to address traffic impacts that could result from the potential development of the study site".



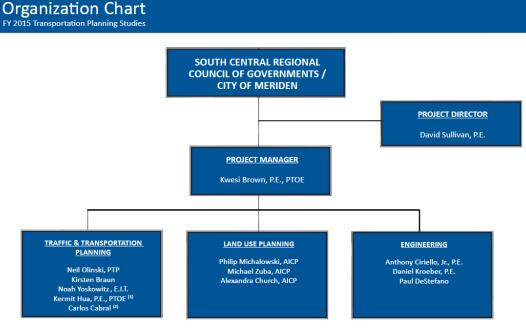




#### Project Management

- Study Stakeholders
  - South Central Regional Council of Governments SCRCOG
  - City of Meriden
  - General Public



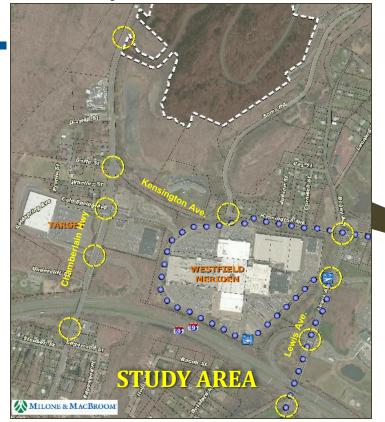


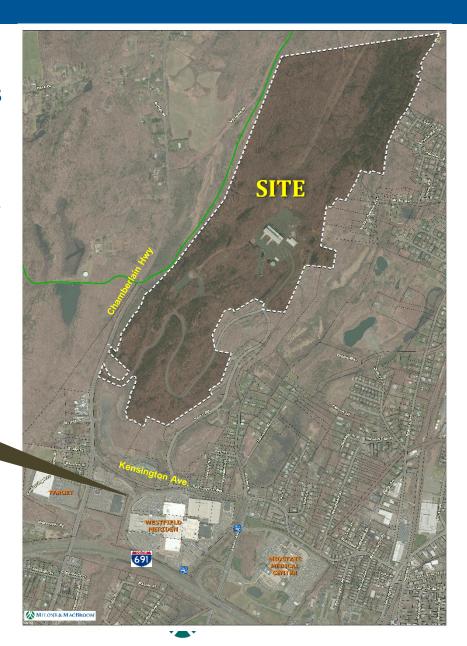
Subconsultants: (1) KWH Enterprise, LLC (DBE) / (2) Connecticut Counts, LLC (DBE)

#### Site Location

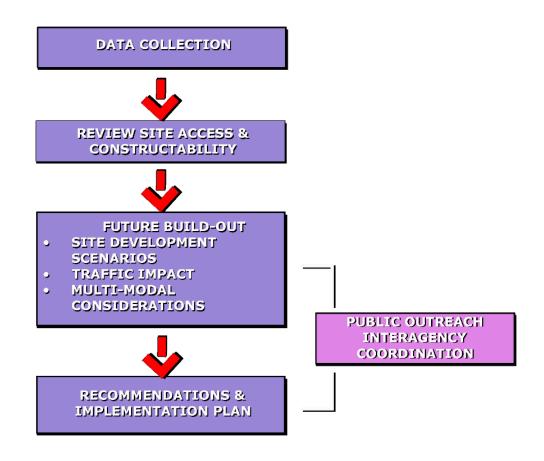
Over 300 acres with approx. 36 acresowned by NRG Company

Primary access - South Mountain Rd.





## Study Approach



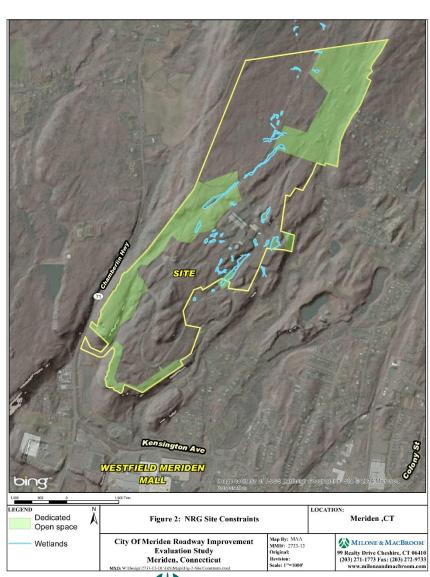


## **Existing Site Conditions**

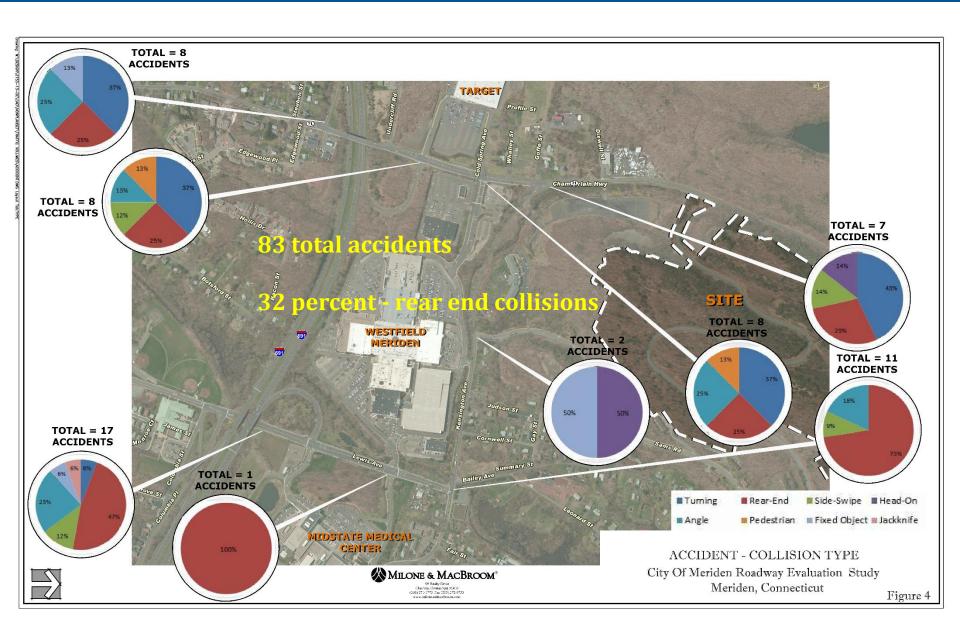
- Steep topography (25% of site has > 20 percent grades)
- 102 acres of dedicated open space (30%)
- 7.8 acres of wetlands
- Utilities
  - NRG has electric, sewer, gas and water
  - No utilities to rest of site



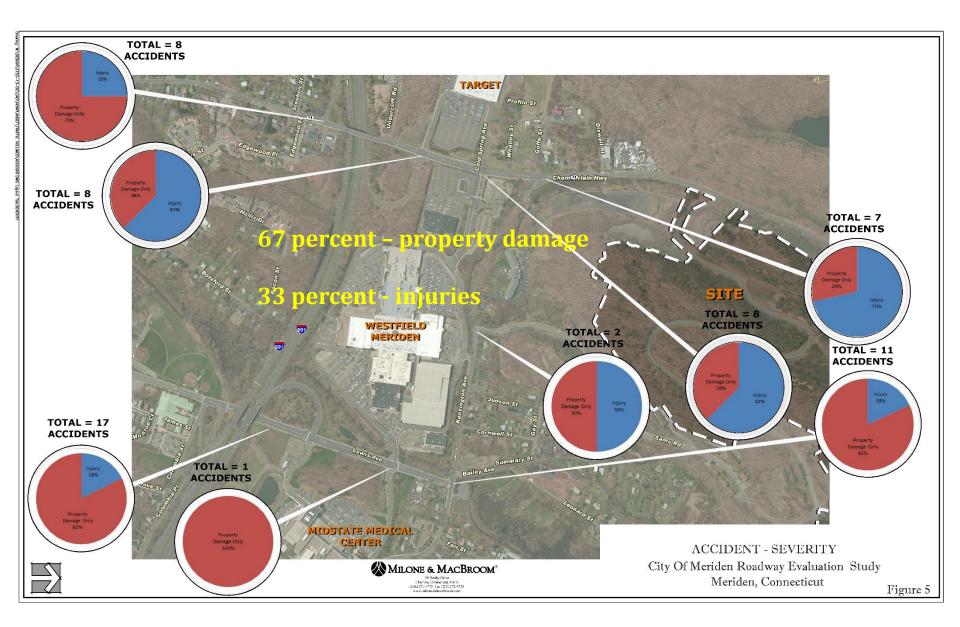




#### **Existing Safety Conditions - Accident Type**



#### **Existing Safety Conditions - Accident Severity**



## **Existing Traffic Conditions**

- Vehicular Speeds
- Traffic Volumes
  - Average Daily Traffic
  - Segment and Intersection Counts
- Capacity Analysis –Level of Service

Roadway	Posted Speed	85 <sup>th</sup> Percentile Speed
Chamberlain Hwy	35 mph	55 mph
Kensington Avenue	25 mph	41 mph
Lewis Avenue	25 mph	34 mph

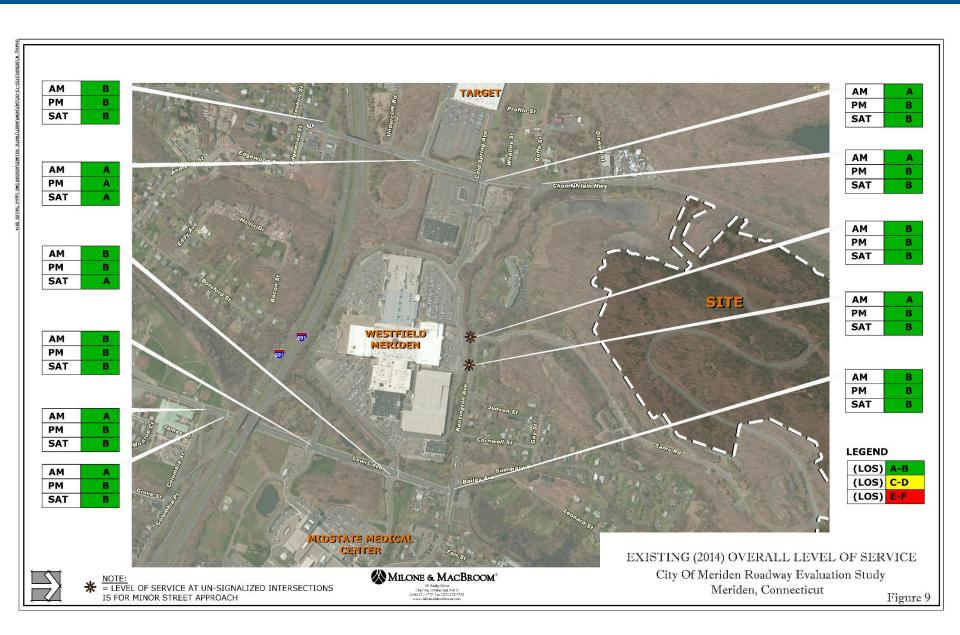
	Average Daily Traffic (ADT)			
Location	Year 2007	Year 2010	Year 2013	Year 2014*
Chamberlain Highway north of Kensington Avenue	6,100	6,000	5,800	6,203
Chamberlain Highway north of the I-691 WB on ramp	12,000	12,000	10,700	10,797
Kensington Avenue east of Chamberlain Highway		6,300		6,085
Lewis Avenue north of the mall entrance		6,200		
Lewis Avenue south of the mall entrance				11,271

Source: Connecticut Department of Transportation (\* ATR data collected by MMI)

"----": Not Available



## **Existing Traffic Conditions**

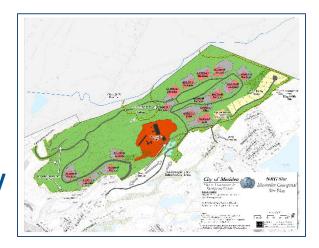


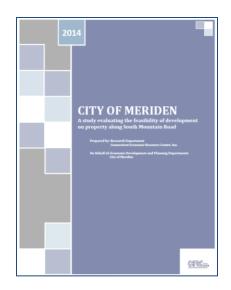
## Existing Multi-modal Amenities



#### **Future Development Potential**

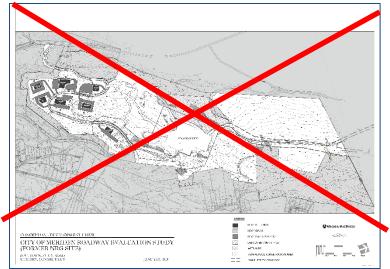
- 2009 Plan of Conservation and Development
  - Offices, medical care, light industrial, biomedical research, indoor storage, heavy industrial
- 2014 Connecticut Economic Research Center Study
  - Destination recreation, wind/solar generation, technology/healthcare office space, light manufacturing
- Preferred Land-use
  - Two-thirds light industrial and one-third general office



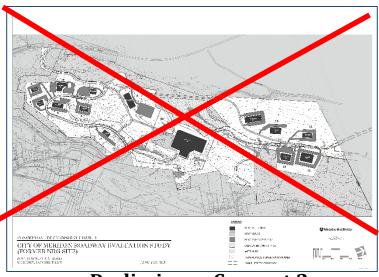




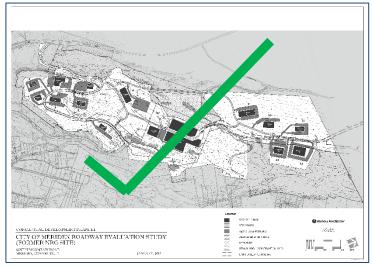
## **Preliminary Site Development Concepts**



**Preliminary Concept 1** 



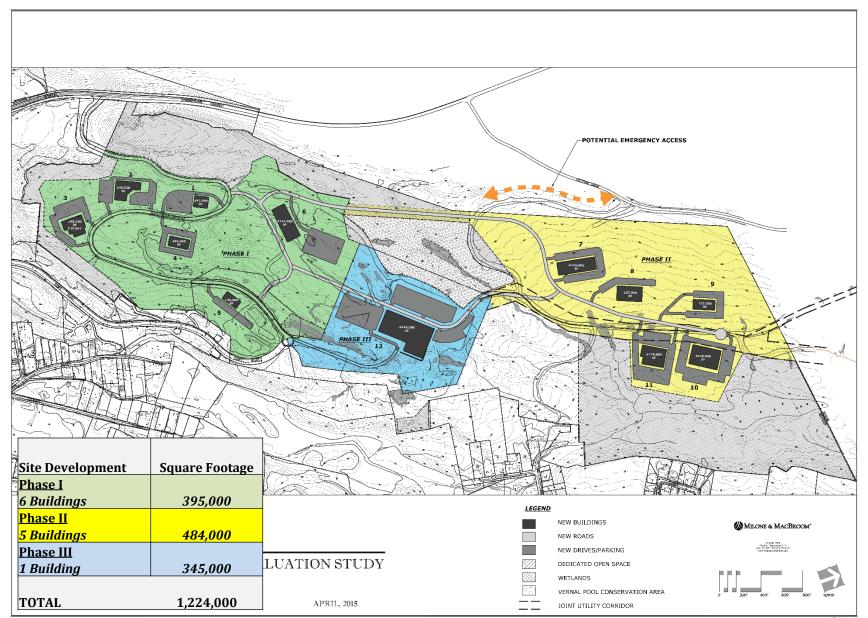
**Preliminary Concept 2** 



**Preliminary Concept 3** 



## Preferred Site Development Concept

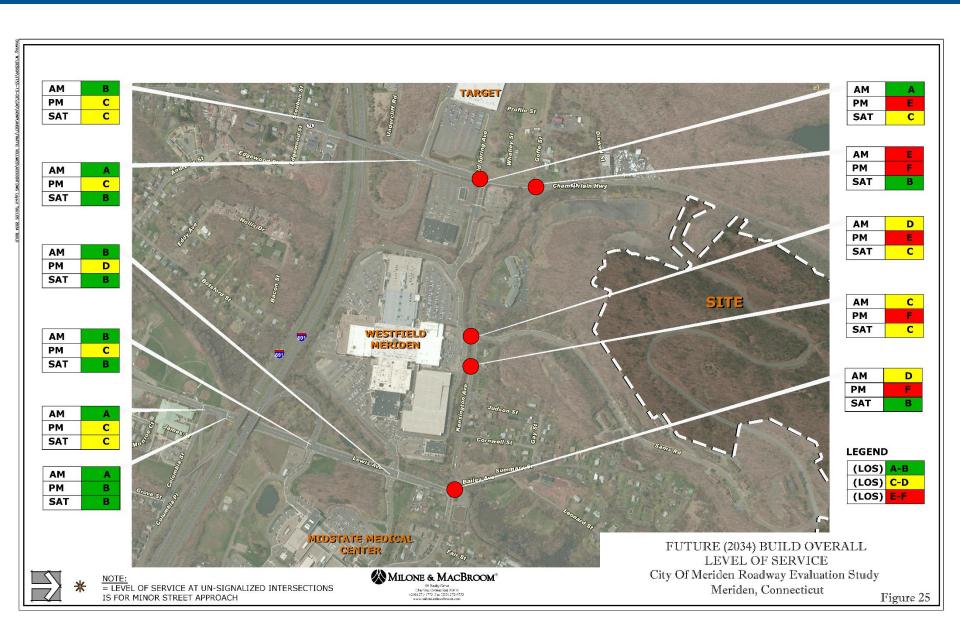


#### **Future Traffic Projections**

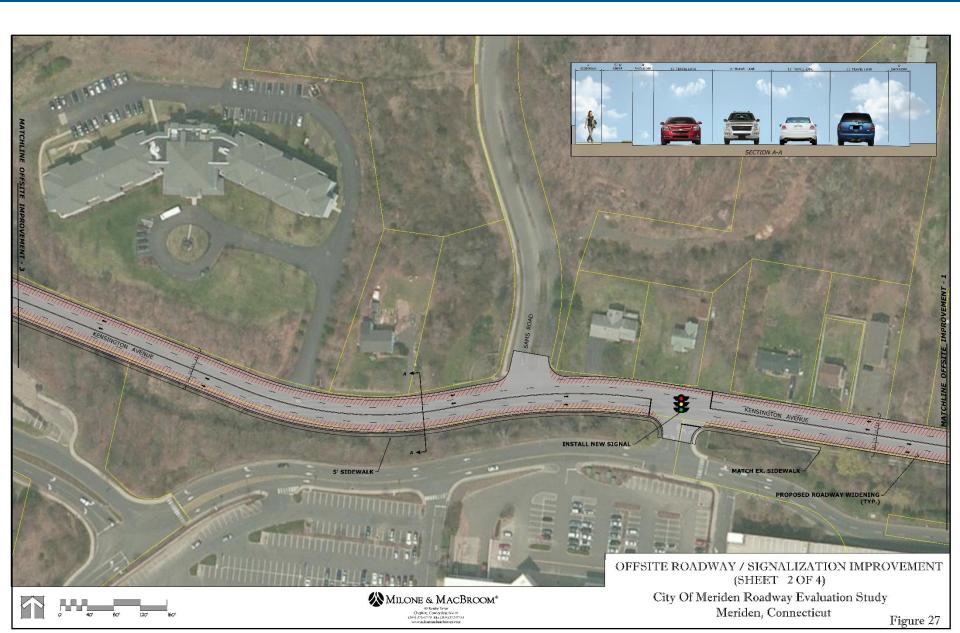
- 20 year planning horizon (Year 2034)
- One percent per year growth
- Estimated Site Traffic
  - Weekday morning peak 1,340 vehicles
  - Weekday afternoon peak 1,325 vehicles
  - Saturday midday peak 290 vehicles

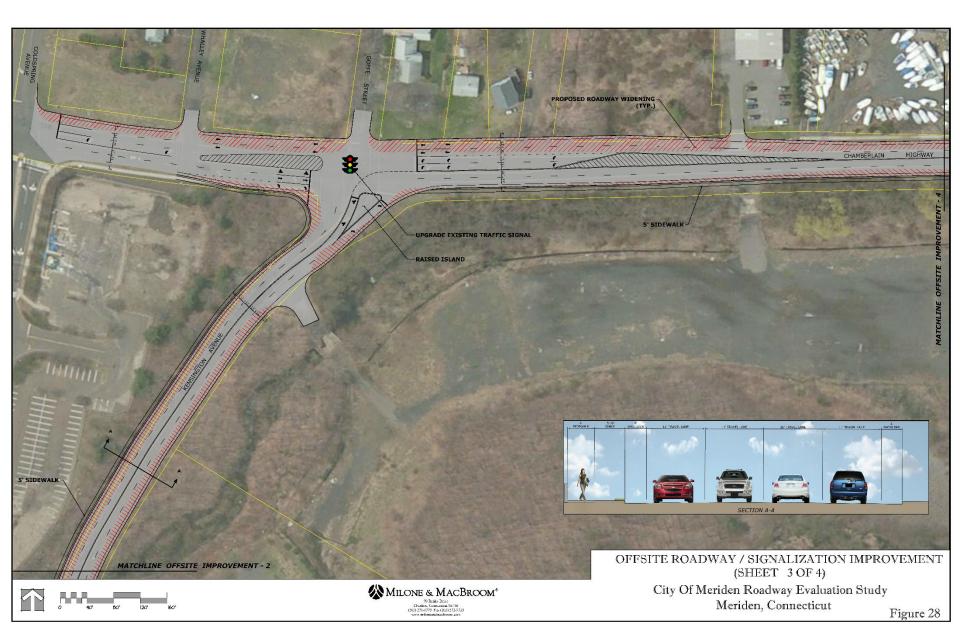


#### **Build-out Traffic Conditions**



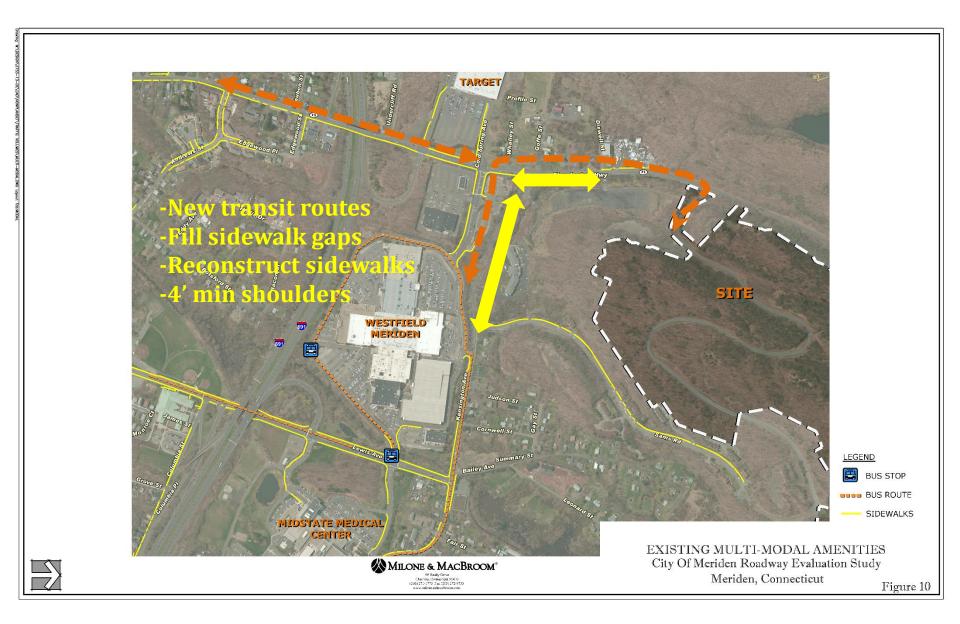








#### Recommendations – Multi-modal



#### **Probable Offsite Construction Cost Estimate**

	COST
2015 Construction Costs	\$8,719,800
Contingencies (±25%)	\$2,180,000
Incidentals to Construction (±25%)	\$2,180,000
Total 2015 Project Cost	\$13,079,800
TOTAL 2015 PROJECT COST (ROUNDED)	\$13,080,000

Note: Cost estimate does not account for future inflation costs, cost of right of way impacts, utility relocations



#### Funding Sources – Offsite Improvements

- Traffic Impact Fees/Developer Contribution
- Local Transportation Capital Improvement Program (LOTCIP)
- Surface Transportation Program (STP) Urban
- Transportation Alternatives Program (TAP)



## Questions?



