

Salem Four Corners
Proposed
MODERN ROUNDABOUT

Bob Ross

First Selectman

Town of Salem

May 2009

Salem Four Corners

“It can be a place where businesses thrive, and community confidence and local patronage are restored.”

Salem Four Corners

- **Public Safety Concerns**
 - High Speed Collisions
 - Asymmetrical Commercial Access Points
- **Traffic Management Issues**
 - Summer Weekend Back-ups
- **The Economic Landscape**
 - Remote Landlords and Failing Businesses
 - Overreliance on Transient Customers
- **Resident Frustration with Traffic and Blight**
 - Growing Demand for Improvements

N



Route 85

Route 82

Route 85

To Route 11





Hartford Rd

85

Salem Marketplace

Norwich Rd

Hartford Rd

E. Haddam Rd

82

New London Rd

85

50 yds

Head-On / Turn Collisions, 5 Years

24 Collisions

7 Injuries - 1 fatality

(#322)

38 Collisions

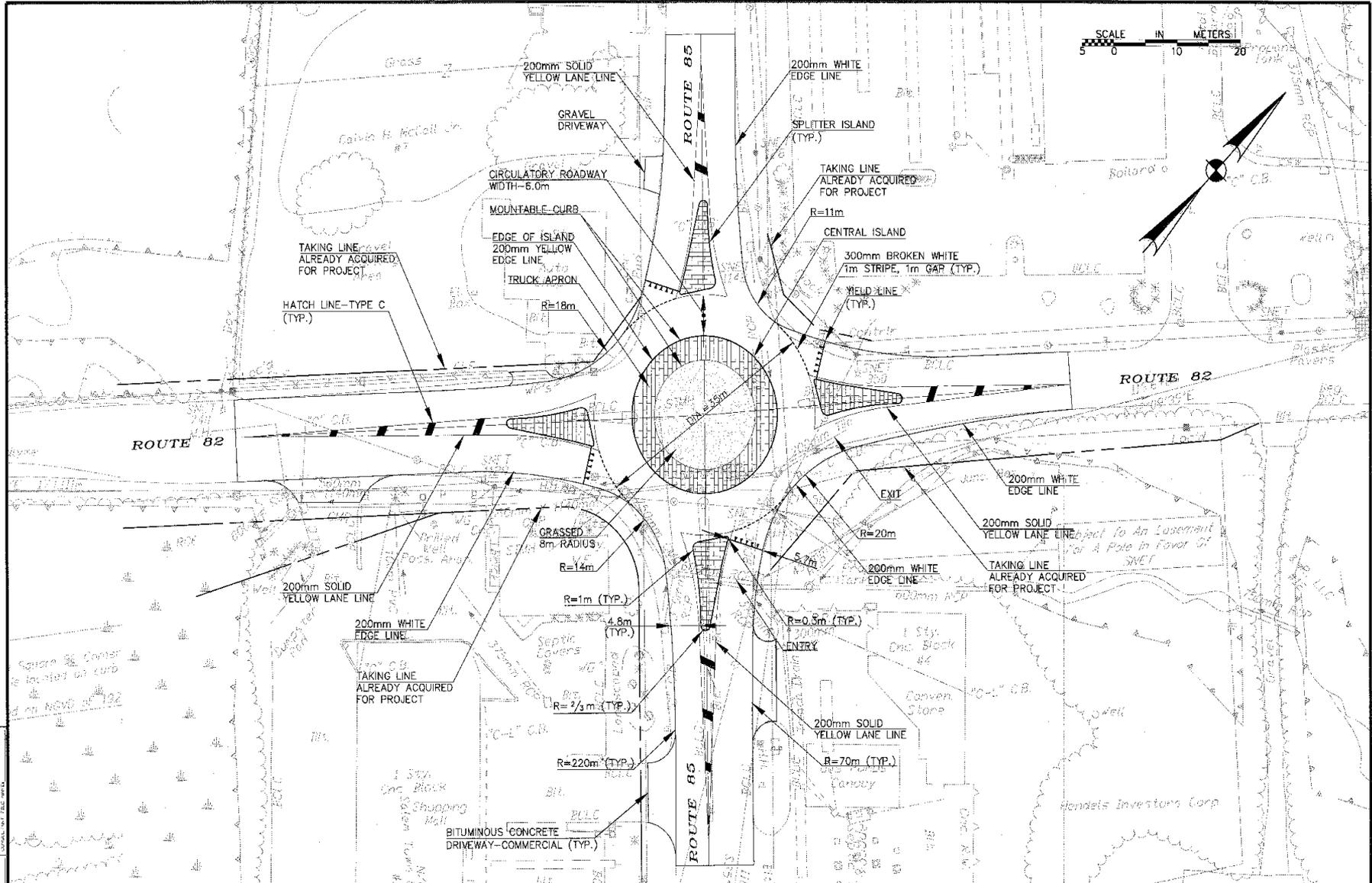
18 Injuries

(#121)



Modern Roundabouts

- **SIMILAR TO OLD “TRAFFIC CIRCLES” WITH NEW SAFETY FEATURES**
- **USED IN EUROPE FOR MANY YEARS**
- **VERY POPULAR IN U.S. DUE TO REDUCTIONS IN ACCIDENTS AND CONGESTION**
- **OVER 1,000 IN U.S., INCLUDING COLORADO, FLORIDA, MARYLAND, VERMONT, AND CONNECTICUT**



REV.	DATE	DESCRIPTION	DESIGNED BY

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THIS SPECIFIC SHEET IS BASED ON LIMITED INVESTIGATION UNLESS BY THE STATE AND IS IN NO WAY WARRANTIES TO INDICATE THE CORRECTNESS OF ACTUAL QUANTITIES OF WORK WHICH SHALL BE REQUIRED.

SCALE: AS NOTED ABOVE

DESIGNER: MI
 CHECKER: MI
 SUPERVISOR BY: JAK
 DATE CHECKED: _____

CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

DESIGNED BY: OFFICE OF ENGINEERING, BRIDGE DESIGN UNIT
 APPROVED BY: _____ DATE: _____

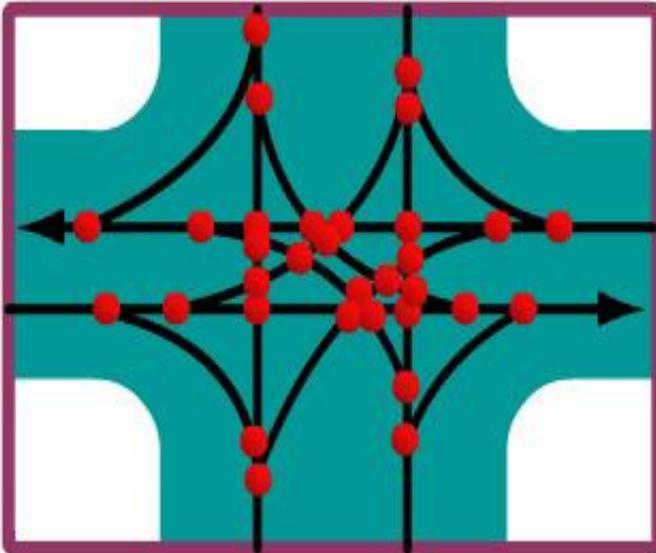
PROJECT TITLE: SPOT SAFETY IMPROVEMENTS ON ROUTE 82/85

TOWN: SALEM
 DRAWING TITLE: ROUNDABOUT STUDY

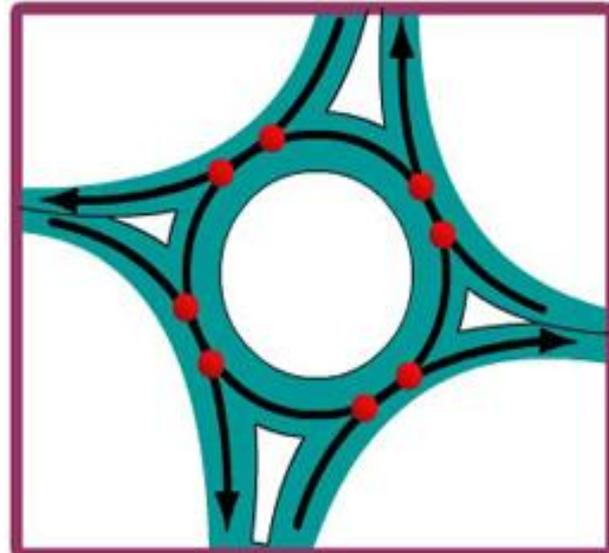
PROJECT NO.: 95-239
 DRAWING NO.: HWY-1
 SHEET NO.: 1

Modern Roundabouts

- 32 Collision Points



- 8 Collision Points



Modern Roundabouts

Major Benefits

- **Reduce Injuries by 75%, Fatalities by 90%**
- **Increase Efficiency in Traffic Flow by 50%**
- **Reduces Carbon Emissions by Double Digits.**
- **Decreases Fuel Consumption by 30%**
- **Cost Less than a Lighted Intersection to Build and Maintain**

-Insurance Institute for Highway Safety

Modern Roundabouts

Safer for Younger and Older Drivers

- **Slower and More Uniform Speeds**
- **Easier to Gage Speeds and Gaps**
- **Focus on Yielding to the Left and Front**
- **No Need to Analyze Several Potential Conflicts Points Simultaneously**

-Insurance Institute for Highway Safety

A Roundabout is NOT a Rotary

- **Much Smaller**
- **Much Slower**
- **More Efficient**
- **Safer**
- **Cheaper**
- **Environmentally Friendly**
- **Aesthetic Improvement**

THIS IS NOT A ROUNDABOUT

Two circulating lanes

One exit lane



THIS IS NOT A ROUNDABOUT

**Approx. 400 foot
Diameter**



**Approx. size of Typical
Roundabout**

150' Diameter



West Haven (Before)



CTDOT Project 156-173
Existing Conditions

West Haven (Rendering)



CTDOT Project 156-173
Proposed Design



West Haven (Built - 6/08)





ONE WAY





Intersection Reconstruction
Existing
Routes 74 & 286
Ellington





**Intersection Reconstruction
Conceptual
Routes 74 & 286
Ellington**



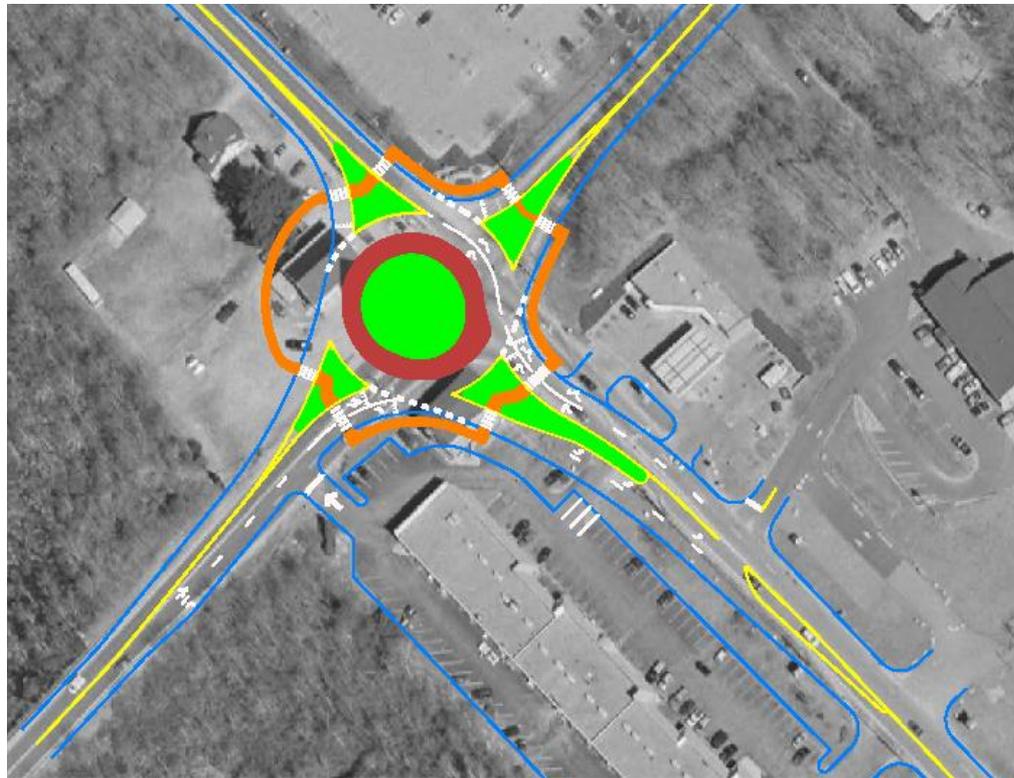
**Approximate size of Cape Cod
or Vernon Circles**

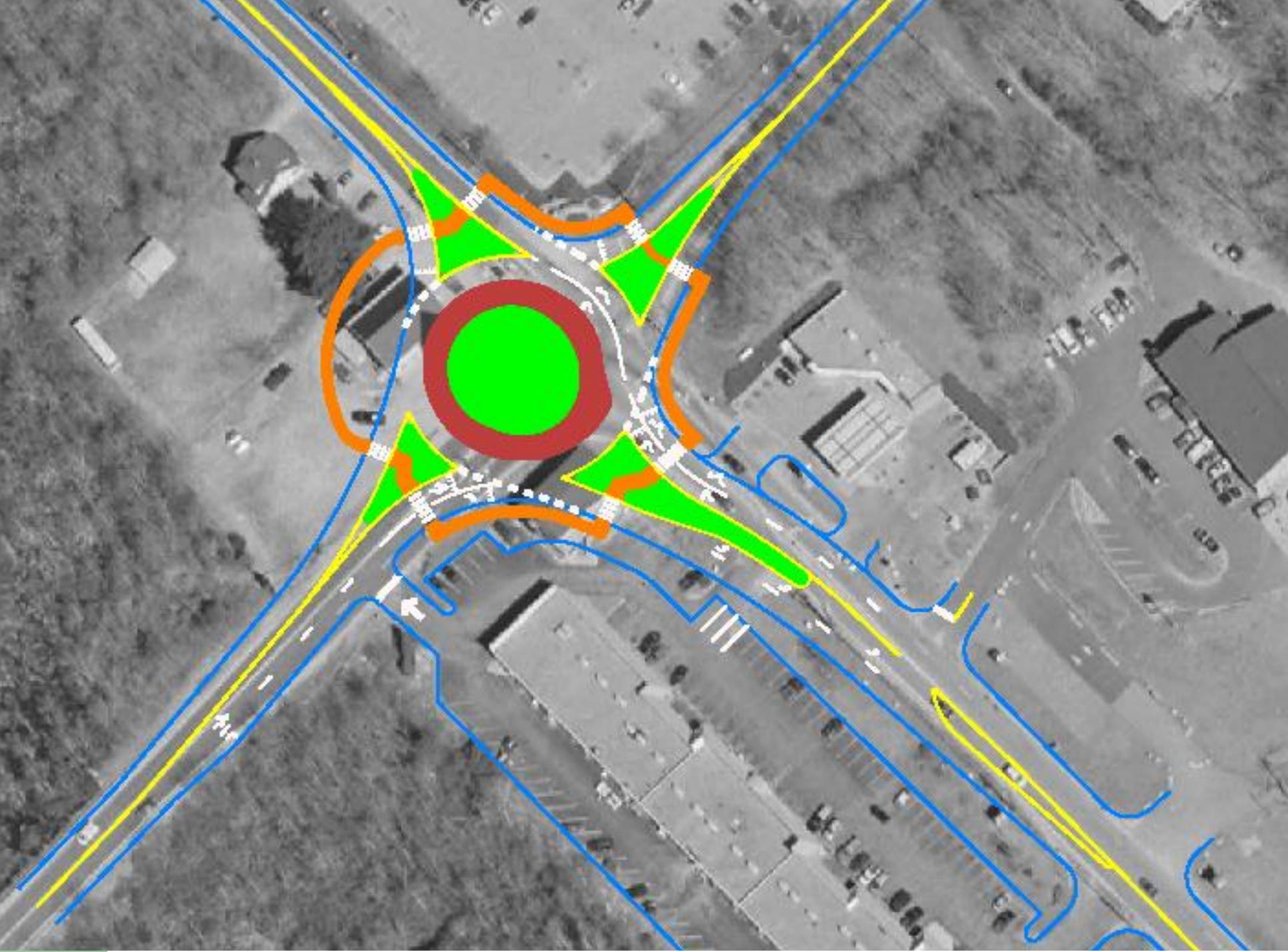


**Intersection Reconstruction
Conceptual
Routes 74 & 286
Ellington**



How Will It Fit In Salem Four Corners?





HOW ACCIDENTS WILL BE REDUCED

**BACK-UPS
WILL BE
REDUCED**

**LEFT TURN
LANE AT
GAS
STATION**



HOW ACCIDENTS WILL BE REDUCED

ENTERING TRAFFIC YIELDS TO CIRCULAR TRAFFIC

SPEEDS LIMITED TO 15-20 MPH



Traffic Flow and Volume Shifts

- **TRAFFIC FLOWS MORE SMOOTHLY**
- **EVERYONE SLOWS TO 10-20 MPH BUT VERY FEW ACTUALLY HAVE TO STOP**
- **BACK-UPS ON ROUTE 85 NORTHBOUND WILL BE REDUCED, NOT ELIMINATED**
- **BACK-UPS ON ROUTE 82 EASTBOUND WILL OCCUR DURING PEAK HOUR, BUT WILL BE MOVING**
 - (A “Moving Queue” instead of “Stop & Go”)



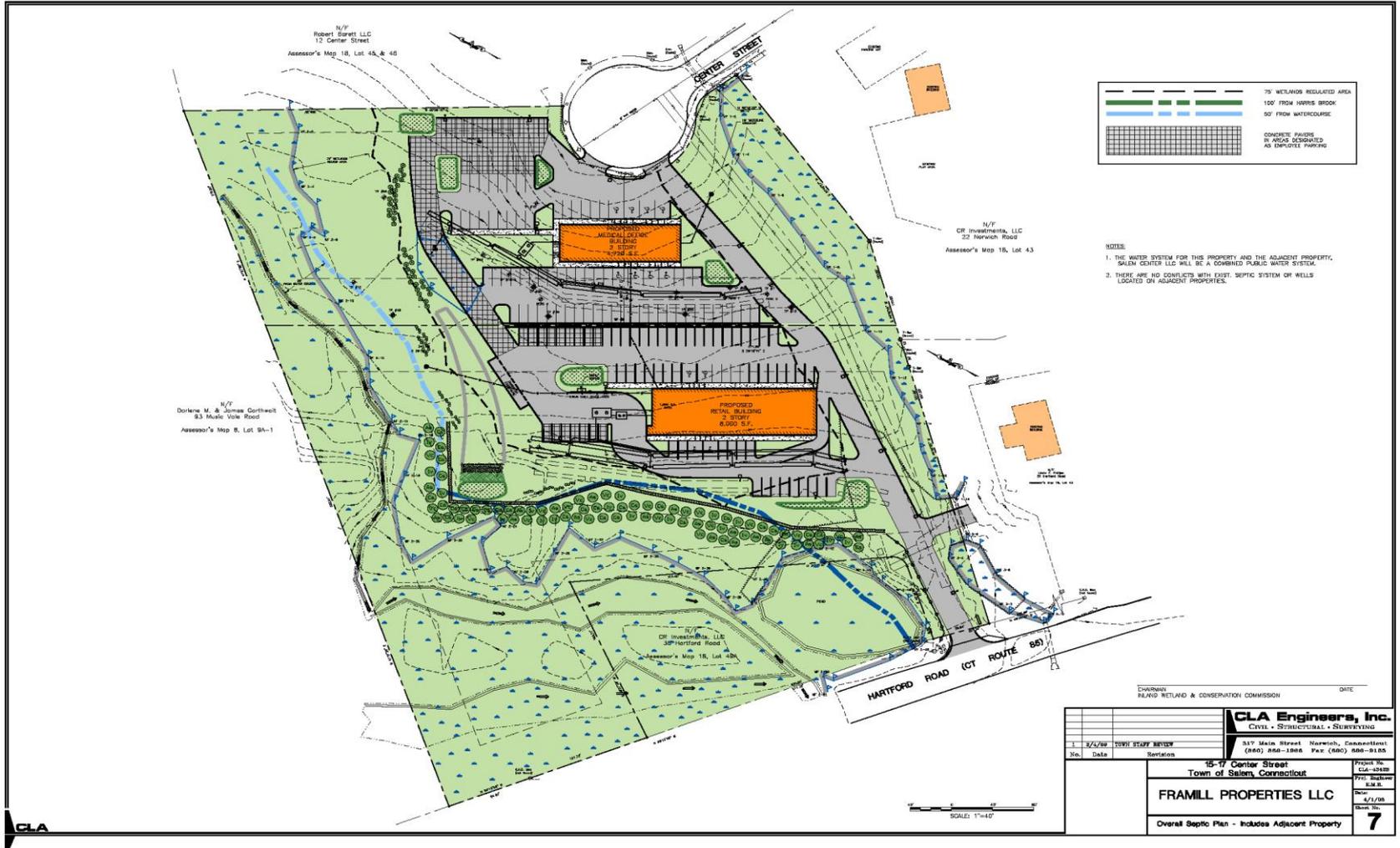
NOT an Alternative to Route 11

- **DESIGNED TO HANDLE TRAFFIC VOLUMES PROJECTED FOR THE NEXT 10-15 YEARS**
- **WHEN ROUTE 11 IS COMPLETED, TRAFFIC VOLUME DROPS BY HALF**
- **RT 11 COMPLETION AND RT 85 IMPROVEMENTS ARE STILL IN DESIGN AND PROGRESSING**

Economic & Environmental Mitigation

- **STATE ACQUIRE PROPERTIES ON THE WESTSIDE OF RT 85 NECESSARY TO IMPROVE SIGHT LINES**
- **CLEAR THE AREA TOWARD HARRIS BROOK FOR ENVIRONMENTAL MITIGATION**
- **8,700 SQUARE FEET OF COMMERCIAL PROPERTY IS REPLACED WITH 14,000 SQUARE FEET ON EAST SIDE OF RT 85**

Proposed New Construction



75 WETLANDS REGULATED AREA
 100' FROM HARRIS BROOK
 50' FROM WATERCOURSE

CONCRETE PAVERS
 IN AREAS DESIGNATED
 AS DEPOTILE PAVING

- NOTES:
1. THE WATER SYSTEM FOR THIS PROPERTY AND THE ADJACENT PROPERTY, SALEM CENTER LLC WILL BE A COMBINED PUBLIC WATER SYSTEM.
 2. THERE ARE NO CONFLICTS WITH EXIST. SEPTIC SYSTEM OR WELLS LOCATED ON ADJACENT PROPERTIES.

CHAIRMAN
 BOARD WETLAND & CONSERVATION COMMISSION

DATE

CLA Engineers, Inc. CIVIL • STRUCTURAL • SURVEYING 517 Main Street Norwich, Connecticut (860) 886-1868 Fax (860) 886-8185		Project No. 15-0429
1 3/2/19	2019 STAFF REVIEW	PLO: [blank] E.A.S.
No.	Date	Date: 3/2/19
15-17 Center Street Town of Salem, Connecticut		Drawn To:
FRAMILL PROPERTIES LLC		7
Overall Septic Plan - Includes Adjacent Property		

SCALE 1"=40'

Time Line for Project Approval

- ***Proposed*** to ConnDOT **December 2008**
- ***Endorsed*** by Legislative Delegation **December 2008**
- ***Endorsed*** by Joe Courtney **March 2009**
- ***Endorsed*** by SECCOG **March 2009**

- ***Approved*** by ConnDOT Scoping Committee and added to the ConnDOT High Priority Projects List
April 24, 2009

Time Line for Construction

- Formal Design Begins **April 2009**
- Hold Public Forum **June 17, 2009**
- Obtain Federal Funding Approval **Spring 2010**
- Obtain Permits, Complete Design **Summer 2010**
- Construction Begins **Spring 2011 or 2012**

**ACQUISITION OF PROPERTY AND PERMITTING WILL
DETERMINE CONSTRUCTION SCHEDULE.**

The Way Ahead

- **COMPLETE THE DESIGN OF A MODERN ROUNDABOUT TO ADDRESS PUBLIC SAFETY, IMPROVE TRAFFIC AND HAVE A POSITIVE ECONOMIC IMPACT AT SALEM FOUR CORNERS**
- **INFORM RESIDENTS, BUSINESS OWNERS AND TOWN LEADERS OF THE BENEFITS AND POTENTIAL THIS PROJECT OFFERS SALEM**
- **CONDUCT A PUBLIC FORUM FOR RESIDENTS THIS SUMMER TO ALLOW FOR PUBLIC INPUT ON THE PROPOSAL**

QUESTIONS

On The Proposed

MODERN ROUNDABOUT

THE GATEWAY

TO OUR

Town of Salem

May 2009