

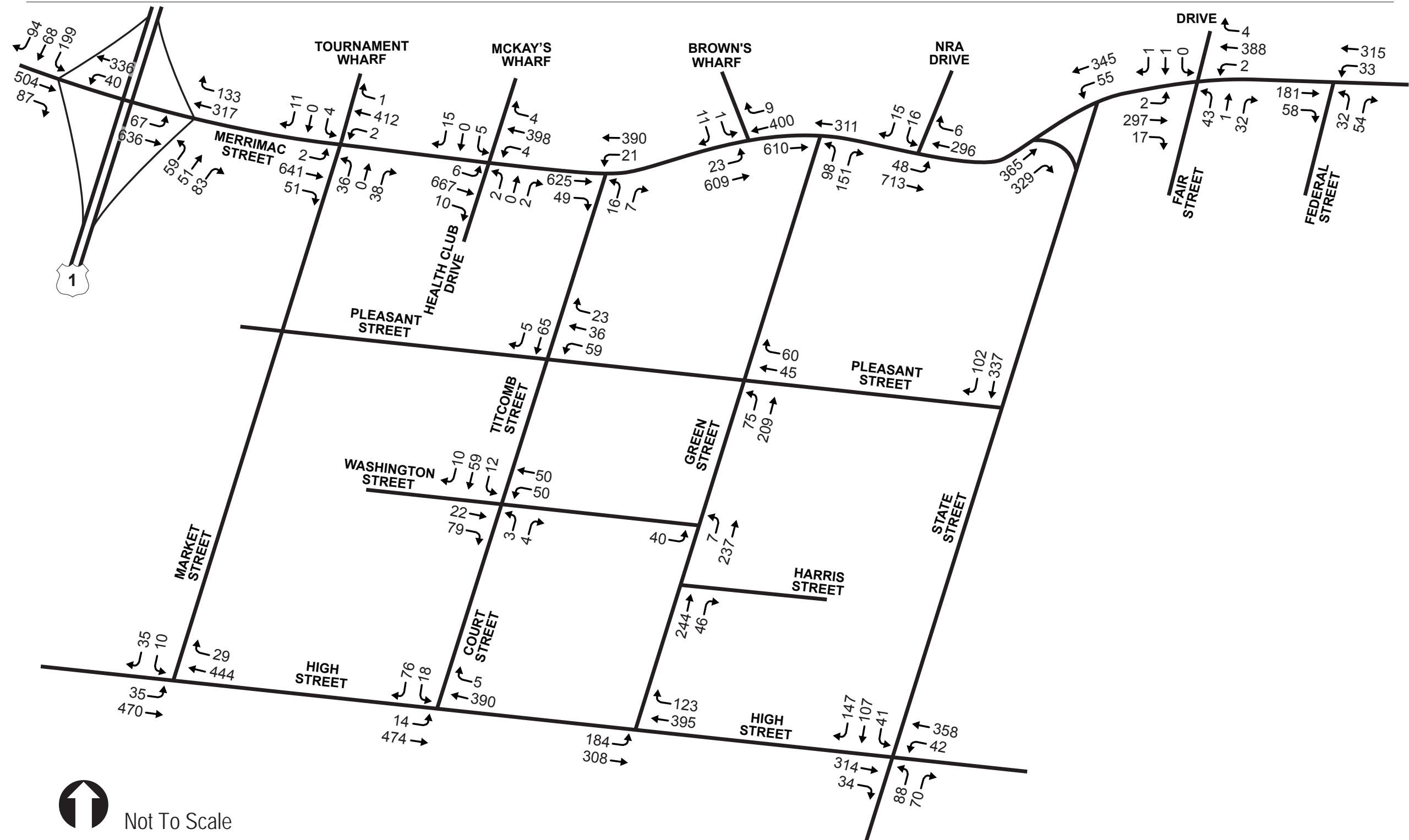
100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Legend	
	Study Area Intersections (Existing)
	Study Area Intersections (Proposed)

Downtown Circulation Study
Newburyport, Massachusetts

Study Area Intersections

Figure
1



Not To Scale

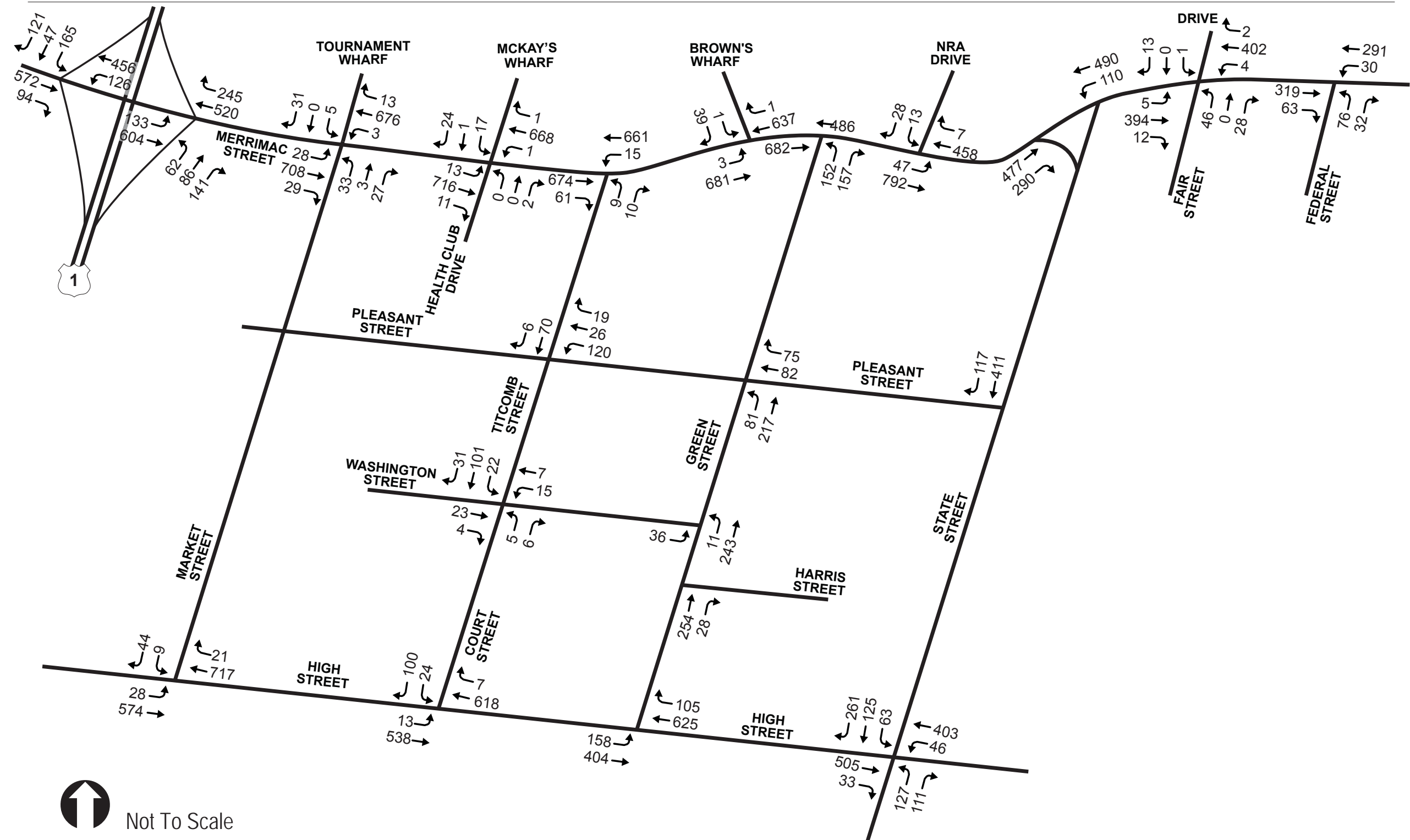


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2017 Existing AM
Peak Hour Volumes

Figure
2



Not To Scale

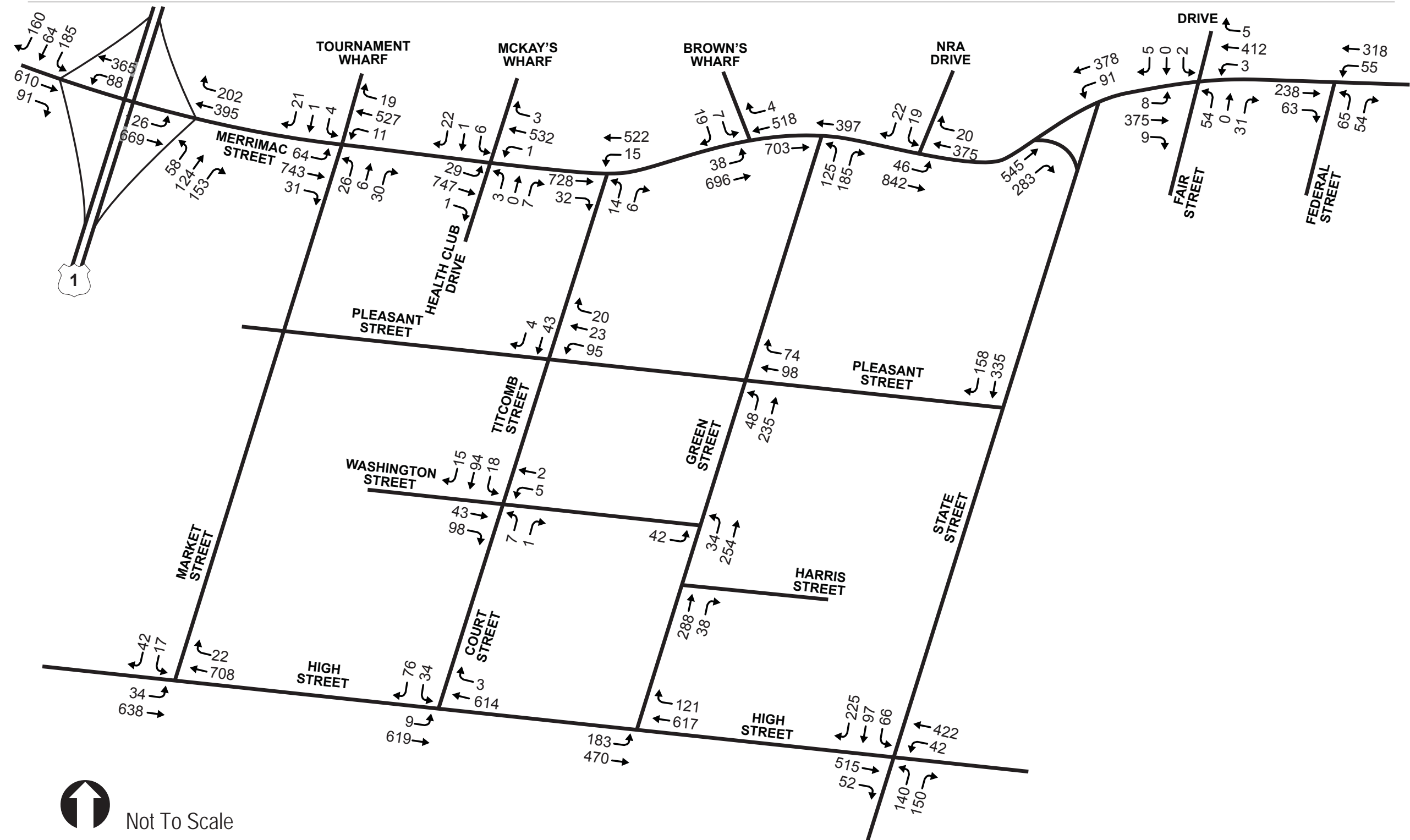


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2017 Existing PM
Peak Hour Volumes

Figure
3



Not To Scale

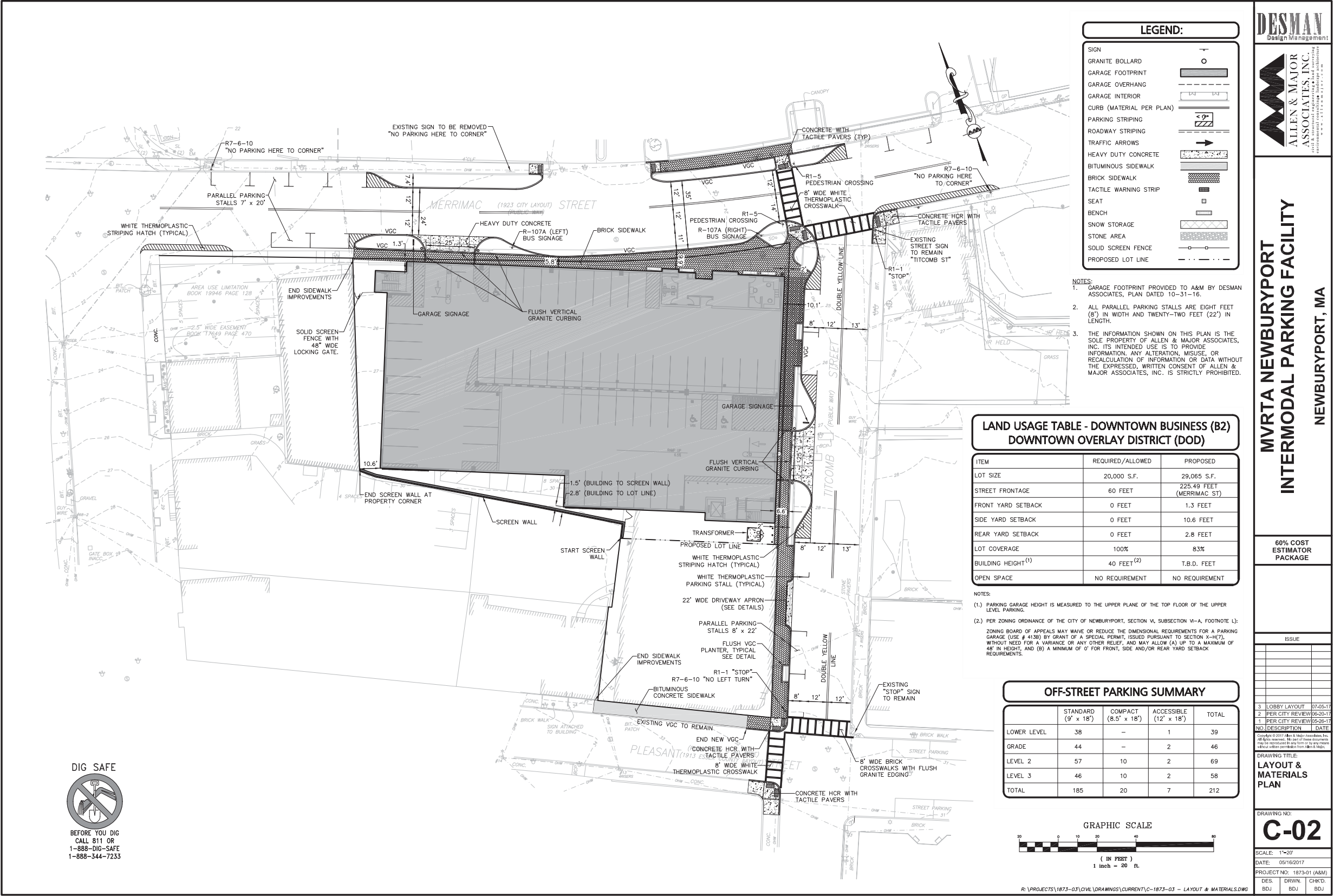


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2017 Existing Saturday
Peak Hour Volumes

Figure
4



DESMAN
Design Management

ALLEN & MAJOR ASSOCIATES, INC.
PLANNING • ENGINEERING • ARCHITECTURE
100 NICKERSON ROAD, SUITE 200
MARLBOROUGH, MASSACHUSETTS 01752
TEL: 508.786.2200 FAX: 508.786.2201

MVRTA NEWBURYPORT INTERMODAL PARKING FACILITY

NEWBURYPORT, MA

60% COST ESTIMATOR PACKAGE

ISSUE

NO.	DESCRIPTION	DATE
1	LOBBY LAYOUT	07-05-17
2	PER CITY REVIEW	08-03-17
3	PER CITY REVIEW	08-29-17

DRAWING TITLE

LAYOUT & MATERIALS PLAN

DRAWING NO:

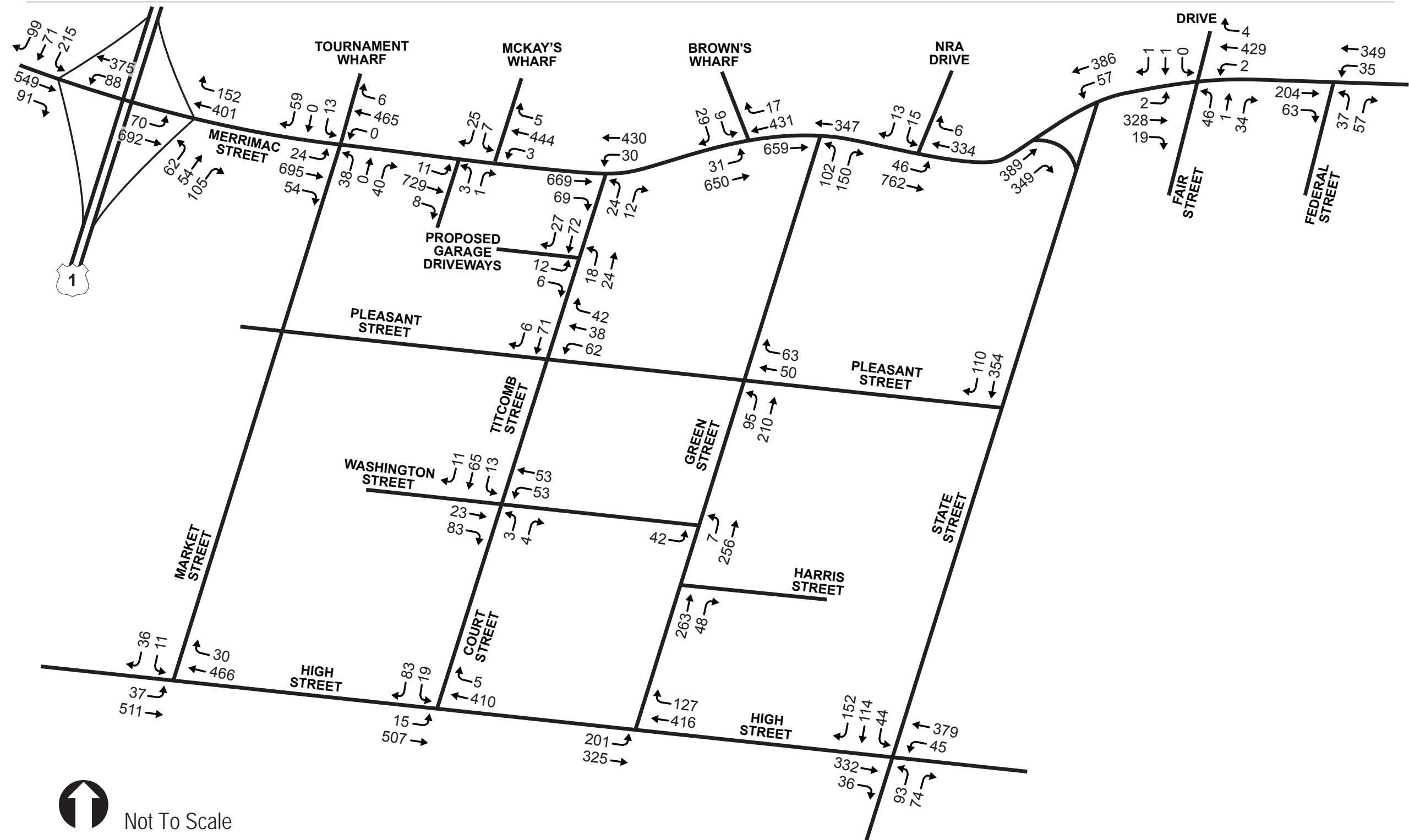
C-02

SCALE: 1"=20'

DATE: 05/16/2017

PROJECT NO: 1873-01 (A&M)

DES.	DRWN.	CHKD.
BDJ	BDJ	BDJ



Not To Scale

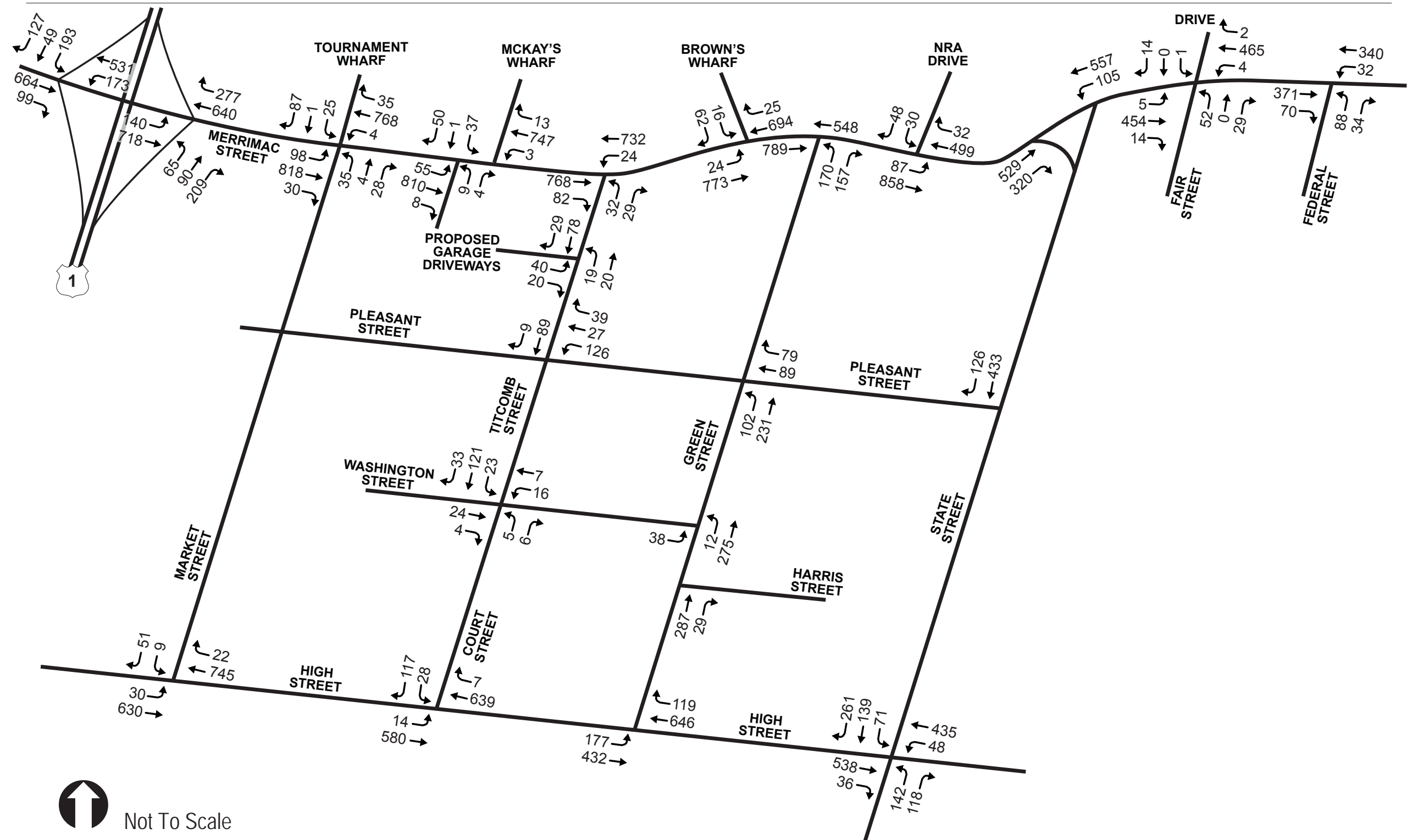


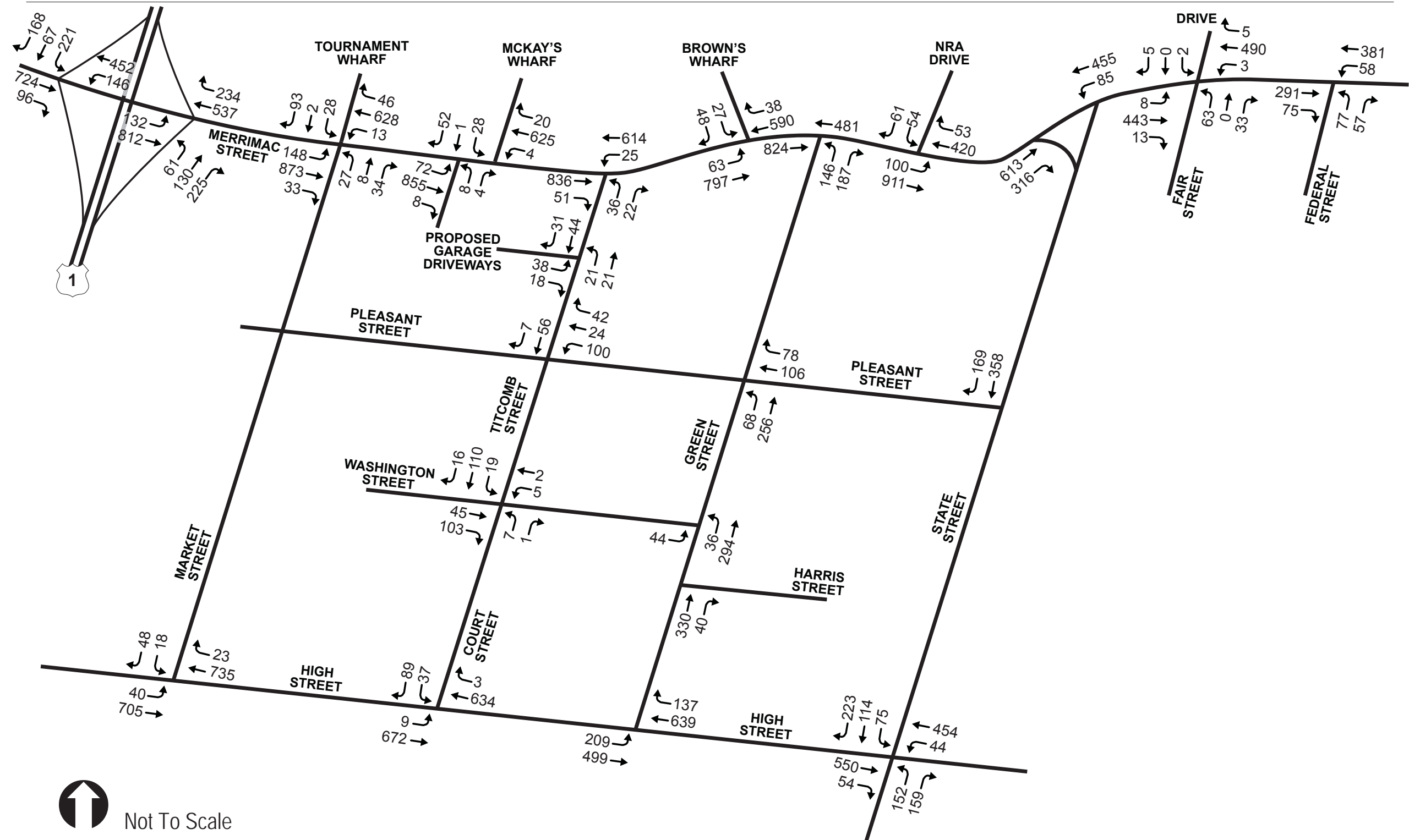
100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2027 AM
Peak Hour Volumes
with Current Circulation

Figure
6





Not To Scale



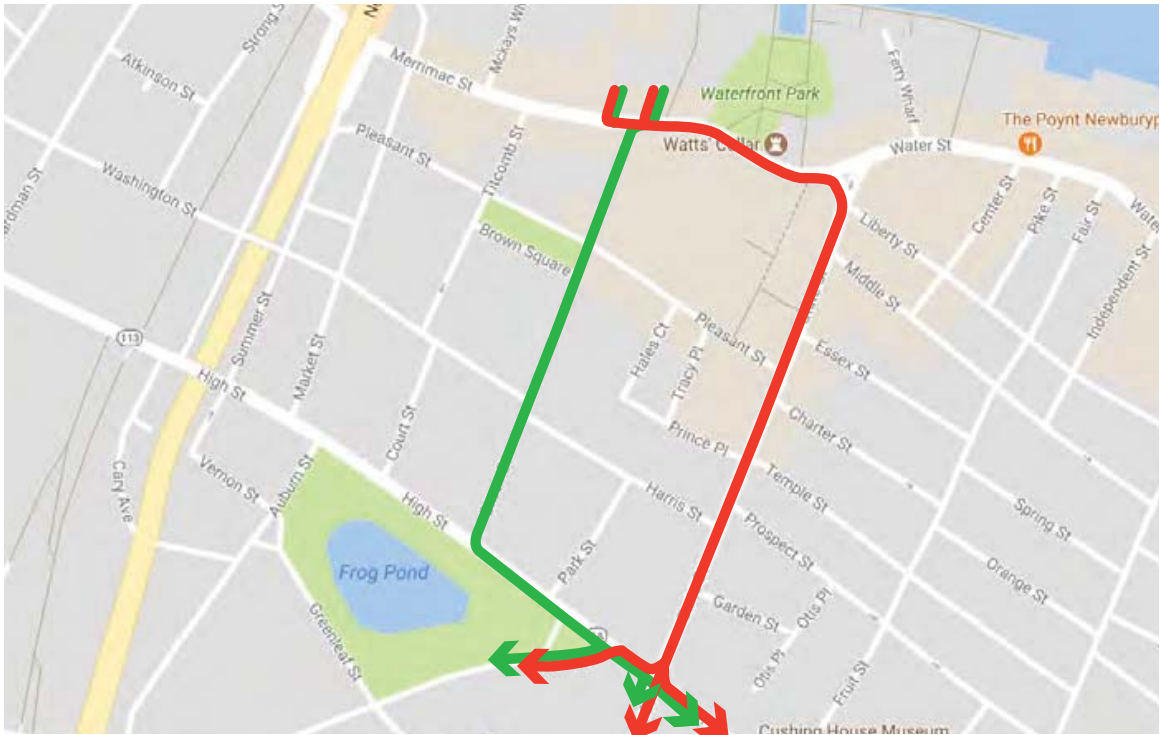
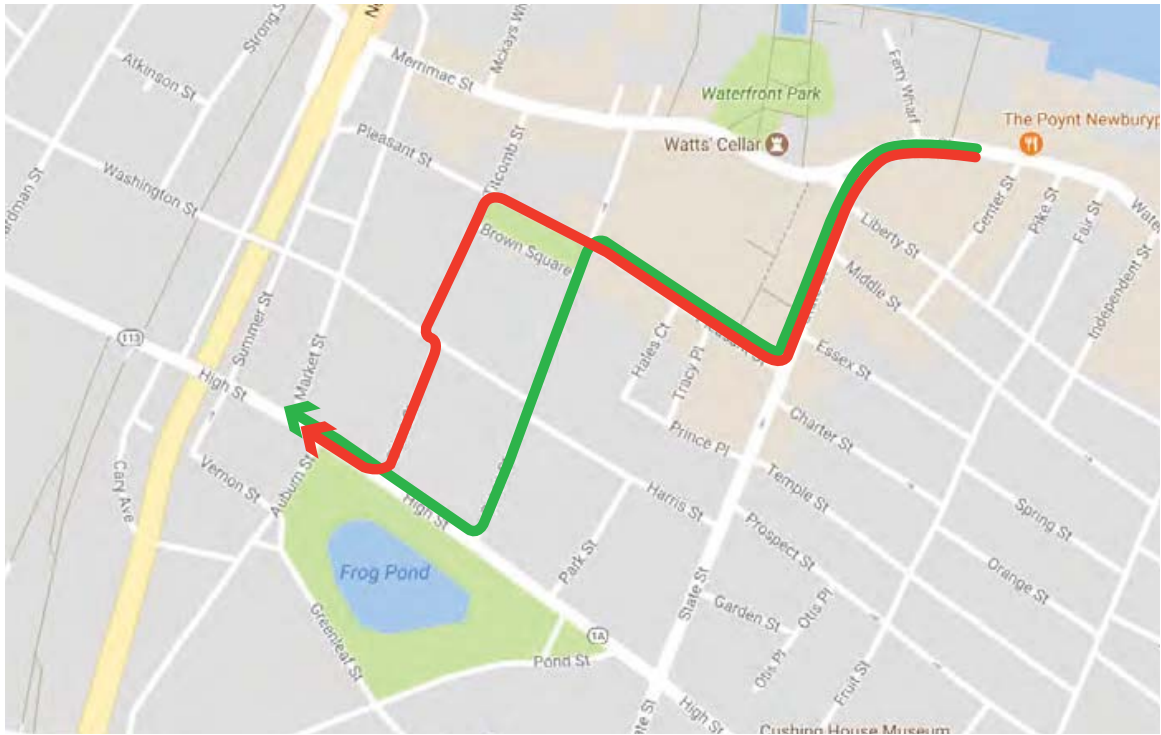
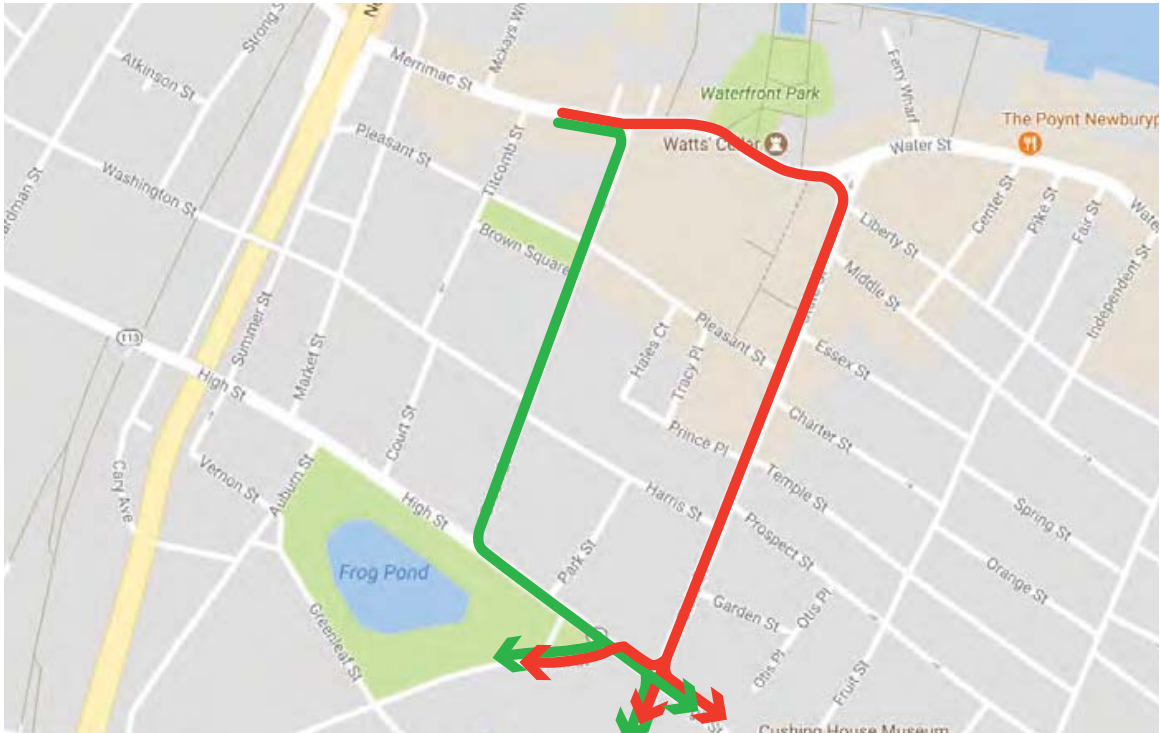
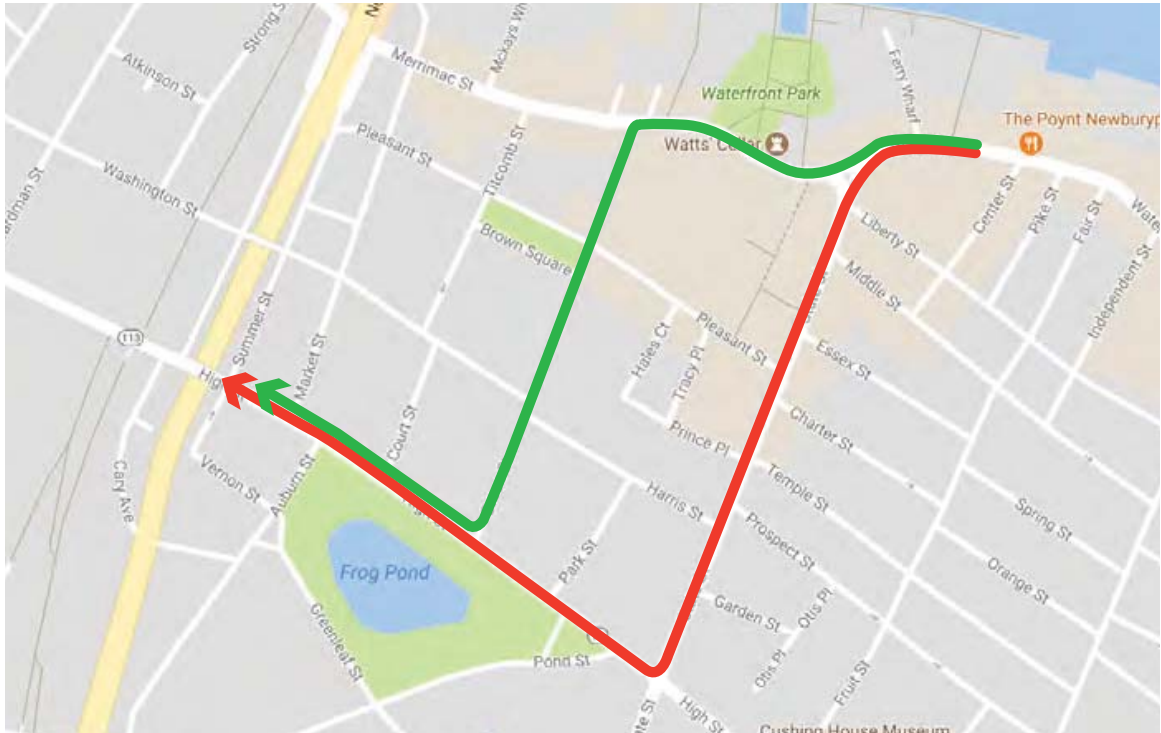
TETRA TECH

100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2027 Saturday
Peak Hour Volumes
with Current Circulation

Figure
8



100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

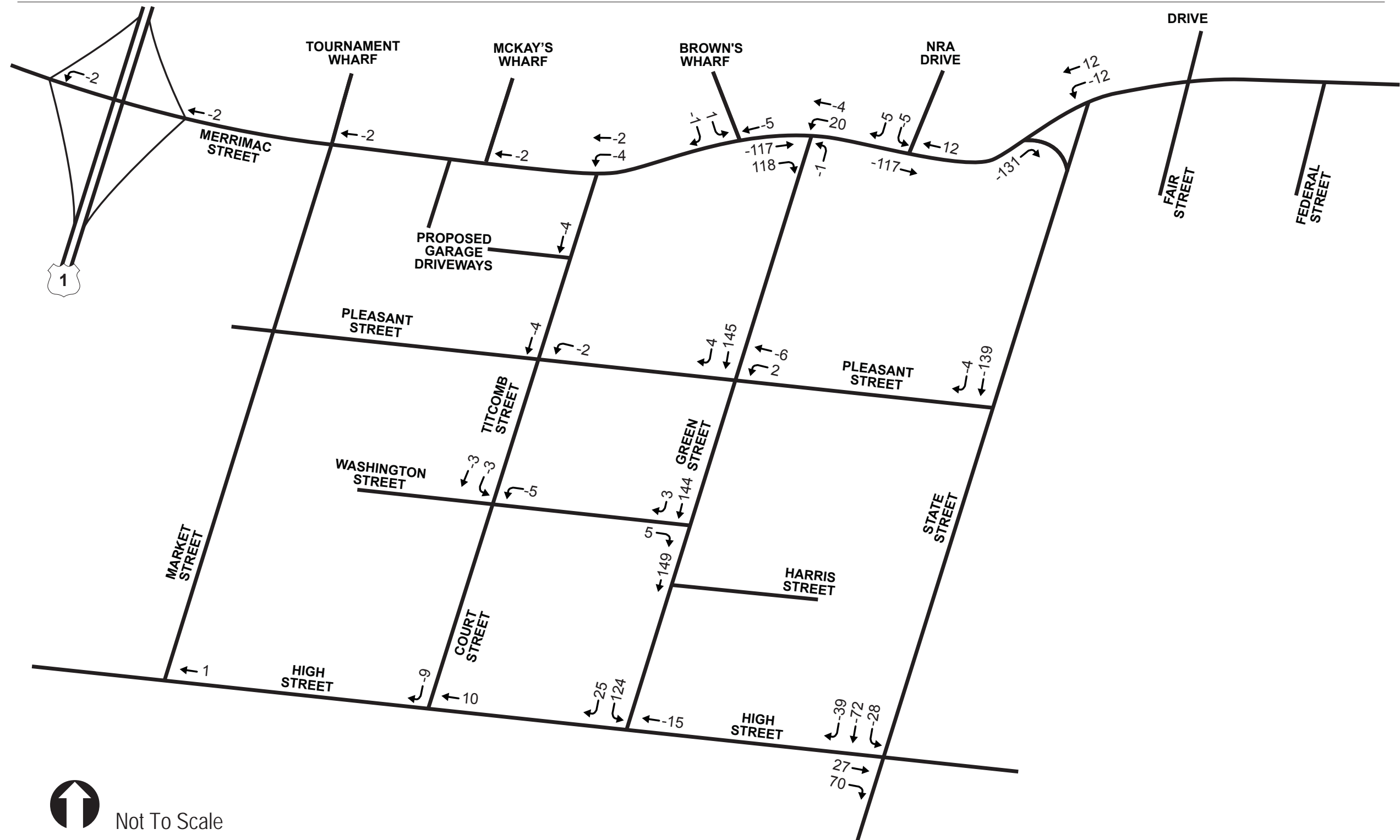
Legend	
	isting Travel Patterns
	Future Travel Patterns



Downtown Circulation Study
Newburyport, Massachusetts

Potential
Traffic Diversions

Figure
9

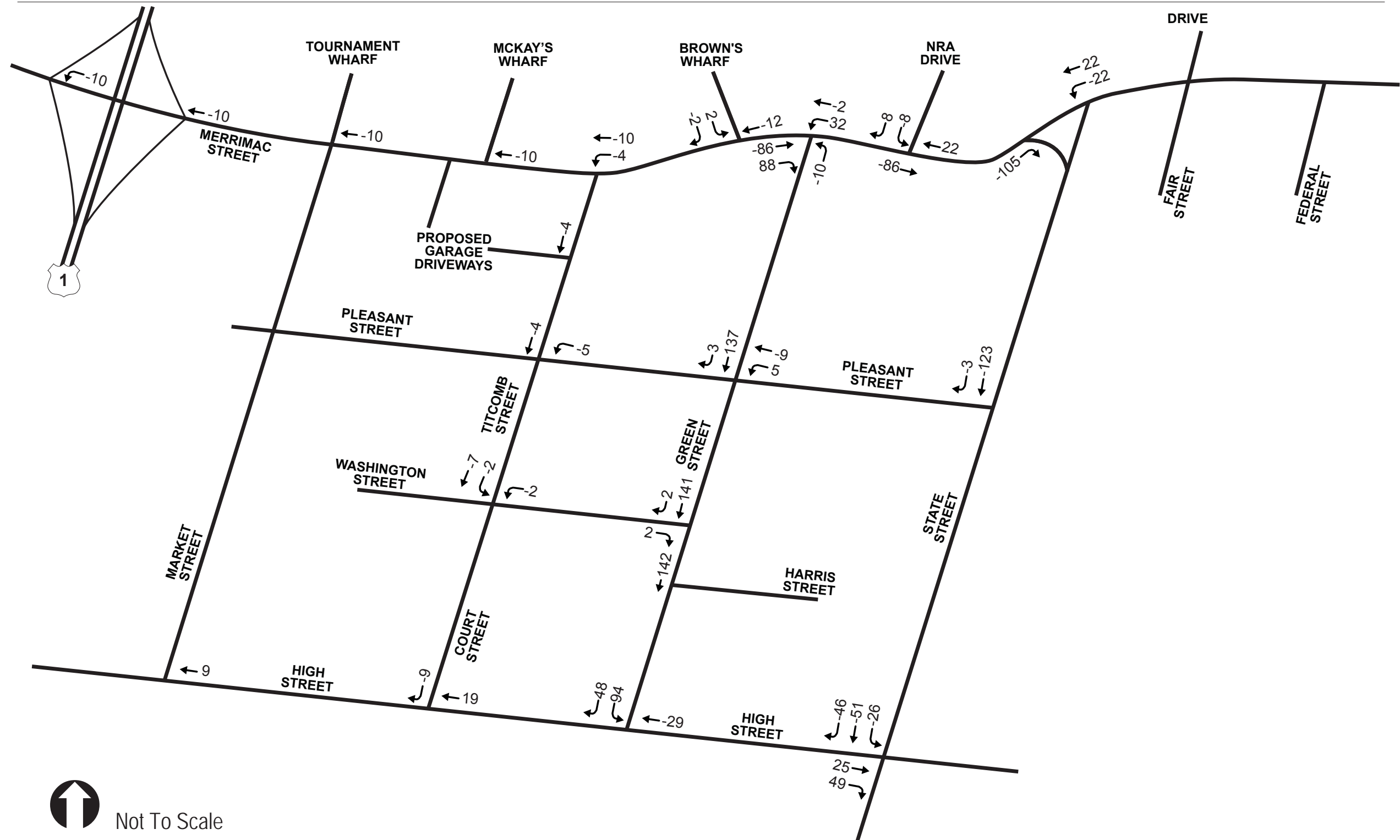


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

Two-Way Green Street
Traffic Diversions
AM Peak Hour

Figure
10



Not To Scale



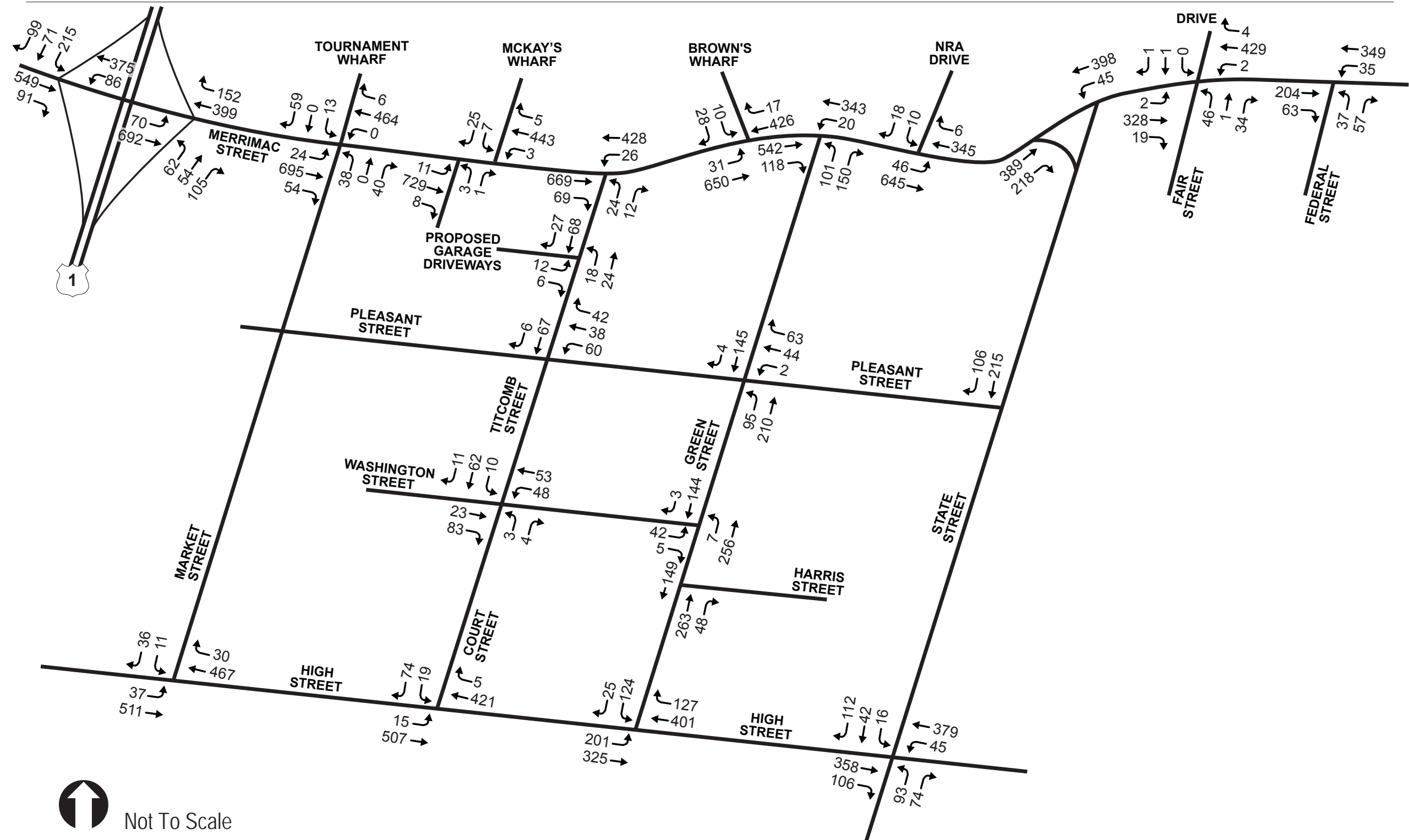
TETRA TECH

100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

Two-Way Green Street
Traffic Diversions
PM Peak Hour

Figure
11

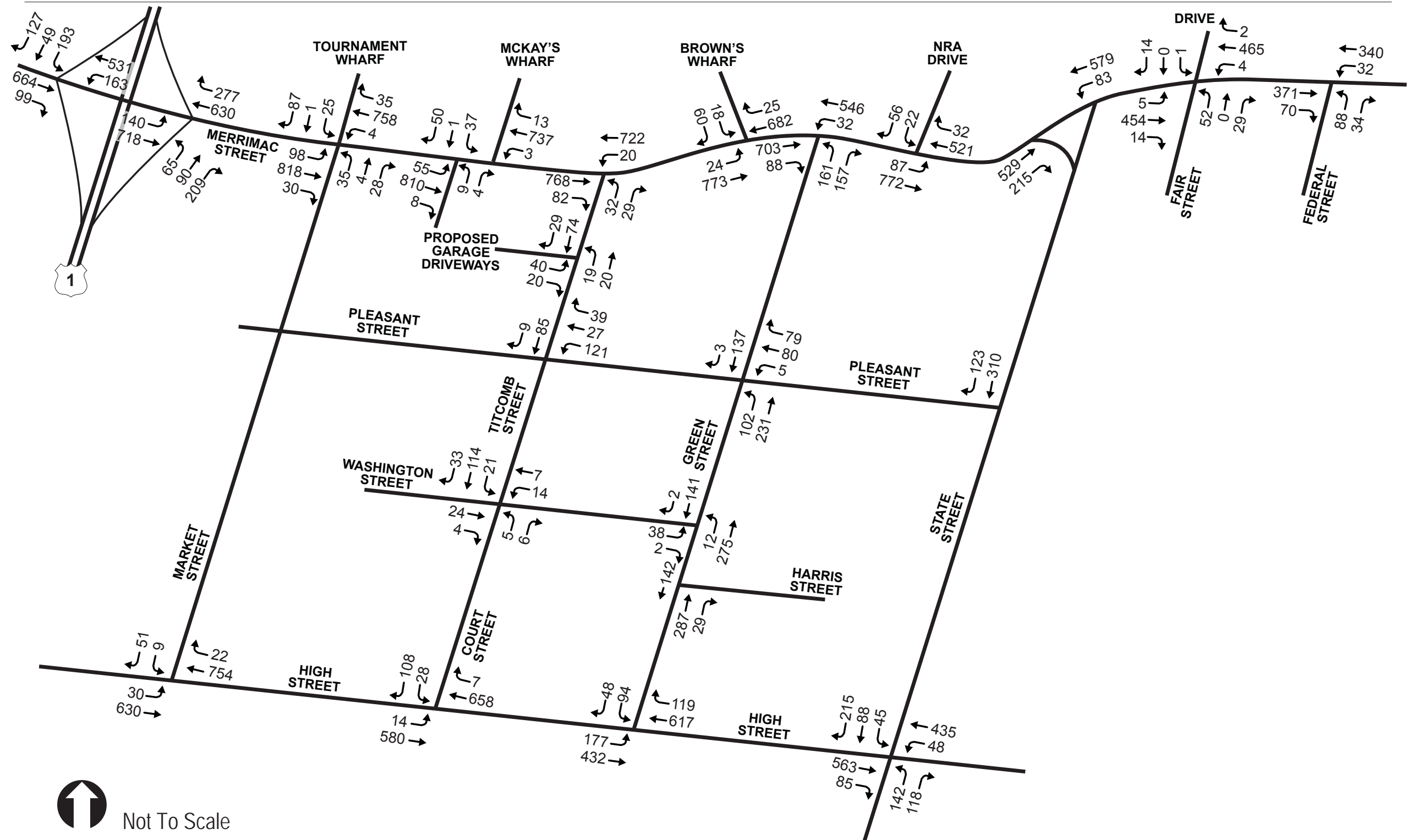


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2027 AM
Peak Hour Volumes
with Two-Way Green Street

Figure
13



Not To Scale



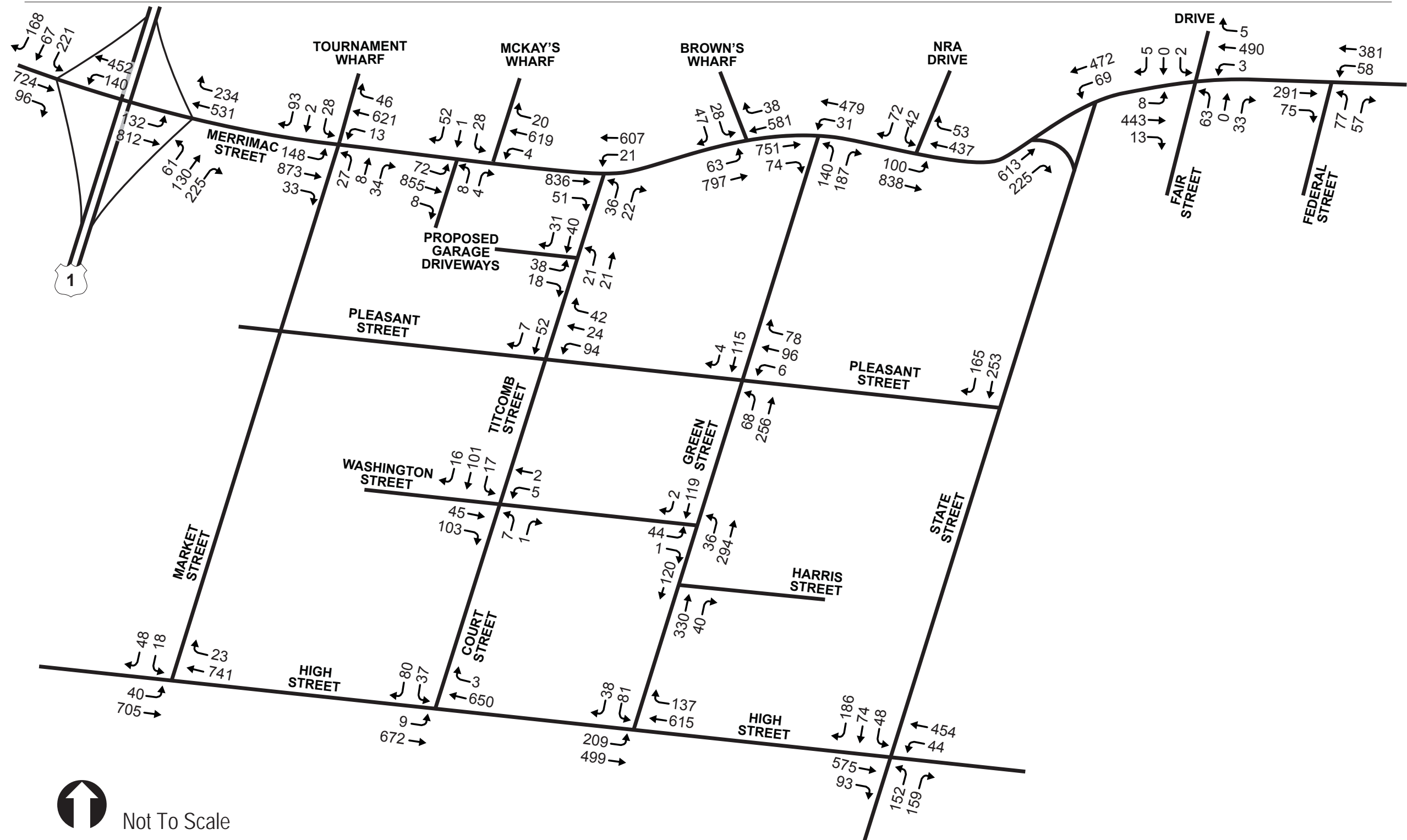
100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2027 PM

Peak Hour Volumes
with Two-Way Green Street

Figure
14



Not To Scale

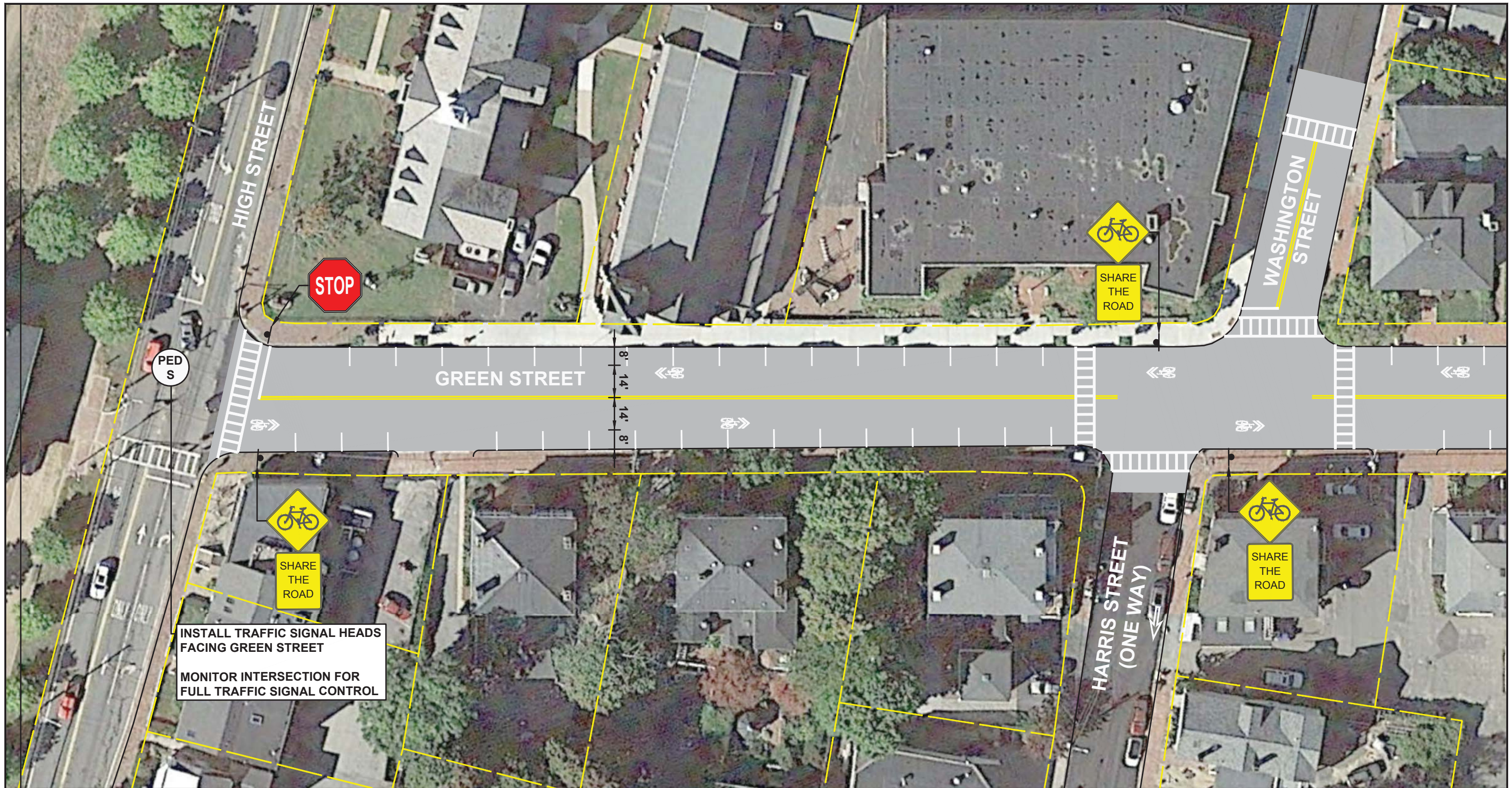


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

2027 Saturday
Peak Hour Volumes
with Two-Way Green Street

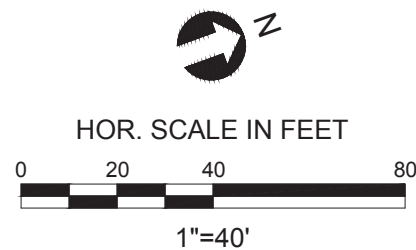
Figure
15



P:\32030\143-32030-15001\CAD\ModelFiles_HD (Conceptual Design - GREEN ST CORRIDOR)-rev.dwg 12/6/2018 4:44:50 PM

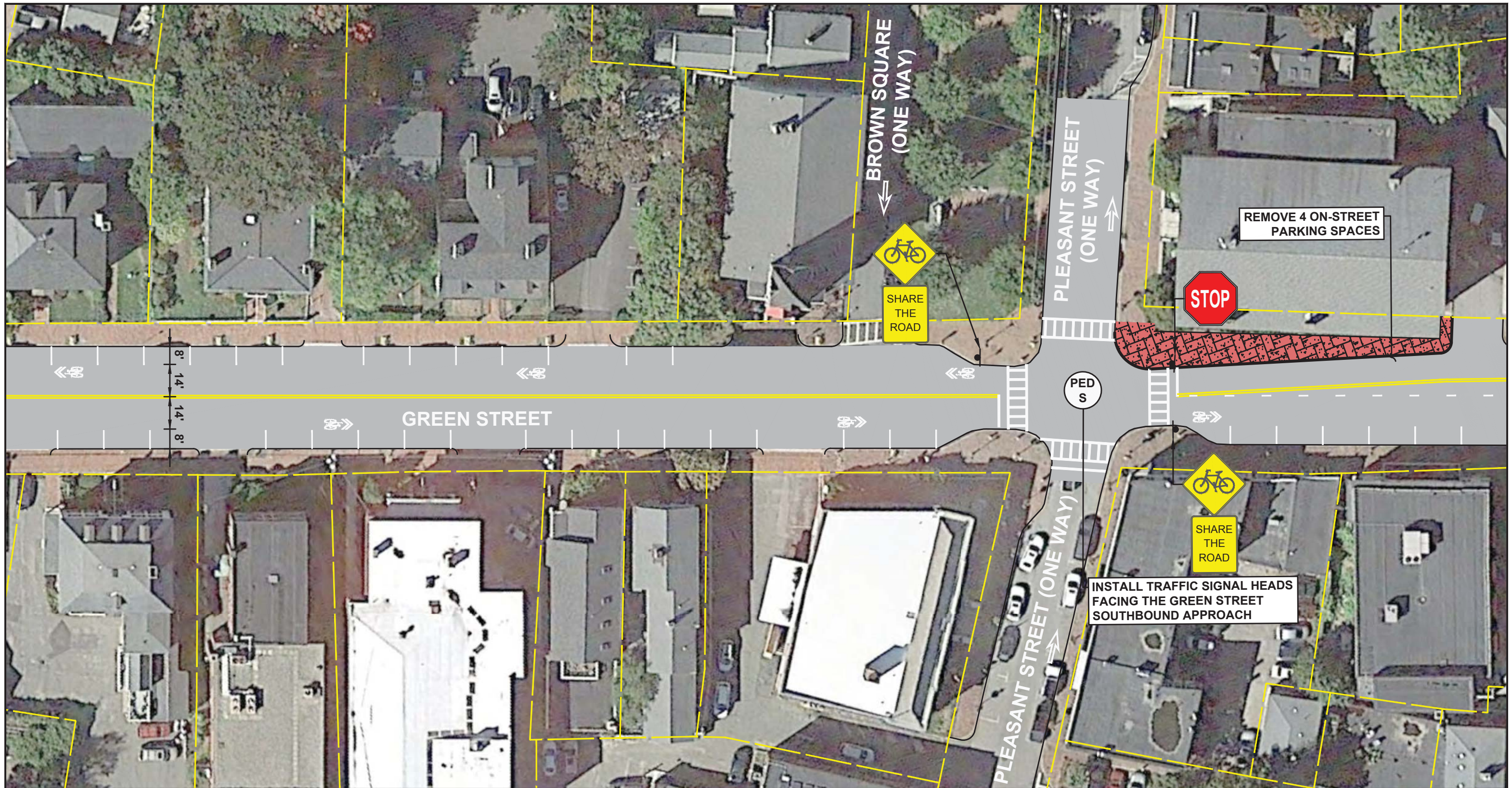


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



Downtown Circulation Study
Newburyport, Massachusetts
Two-Way Green Street
Conceptual Design

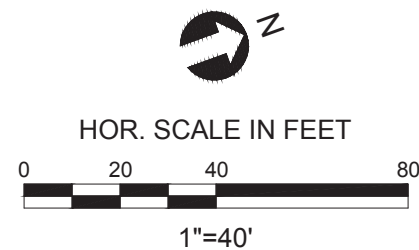
Figure
16A



P:\32030\143-32030-15001\CAD\MapFiles_HD (Conceptual Design - GREEN ST CORRIDOR)-rev.dwg 12/6/2018 4:32:10 PM

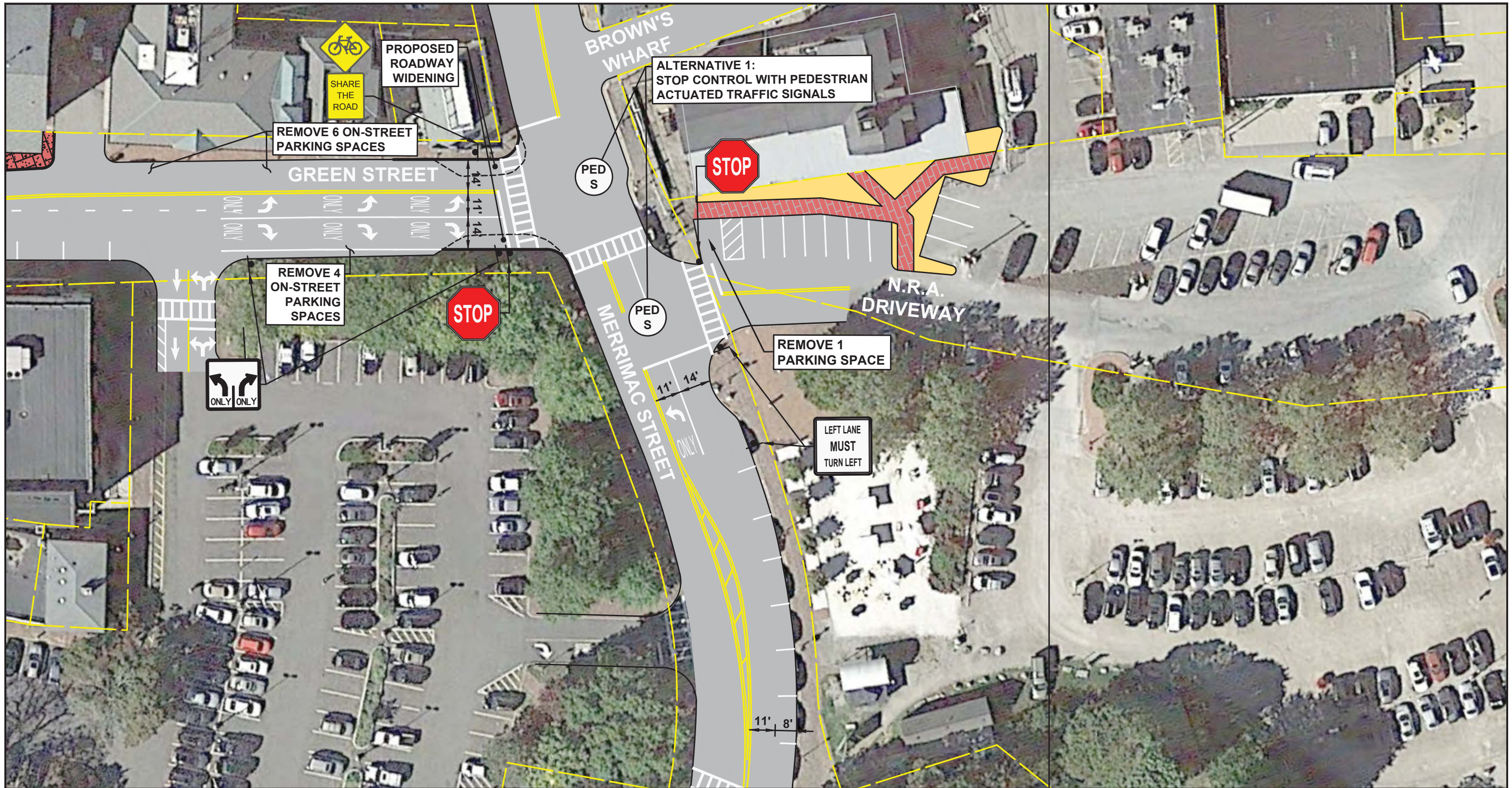


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



Downtown Circulation Study
Newburyport, Massachusetts
Two-Way Green Street
Conceptual Design

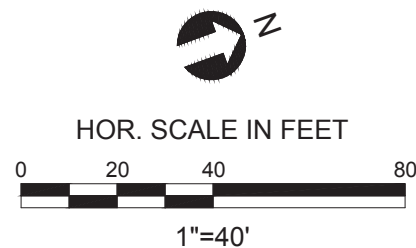
Figure
16B



P:\32030\143-32030-15001\CAD\ModelFiles_HD (Conceptual Design - GREEN ST CORRIDOR)-rev.dwg 12/6/2018 5:27:41 PM

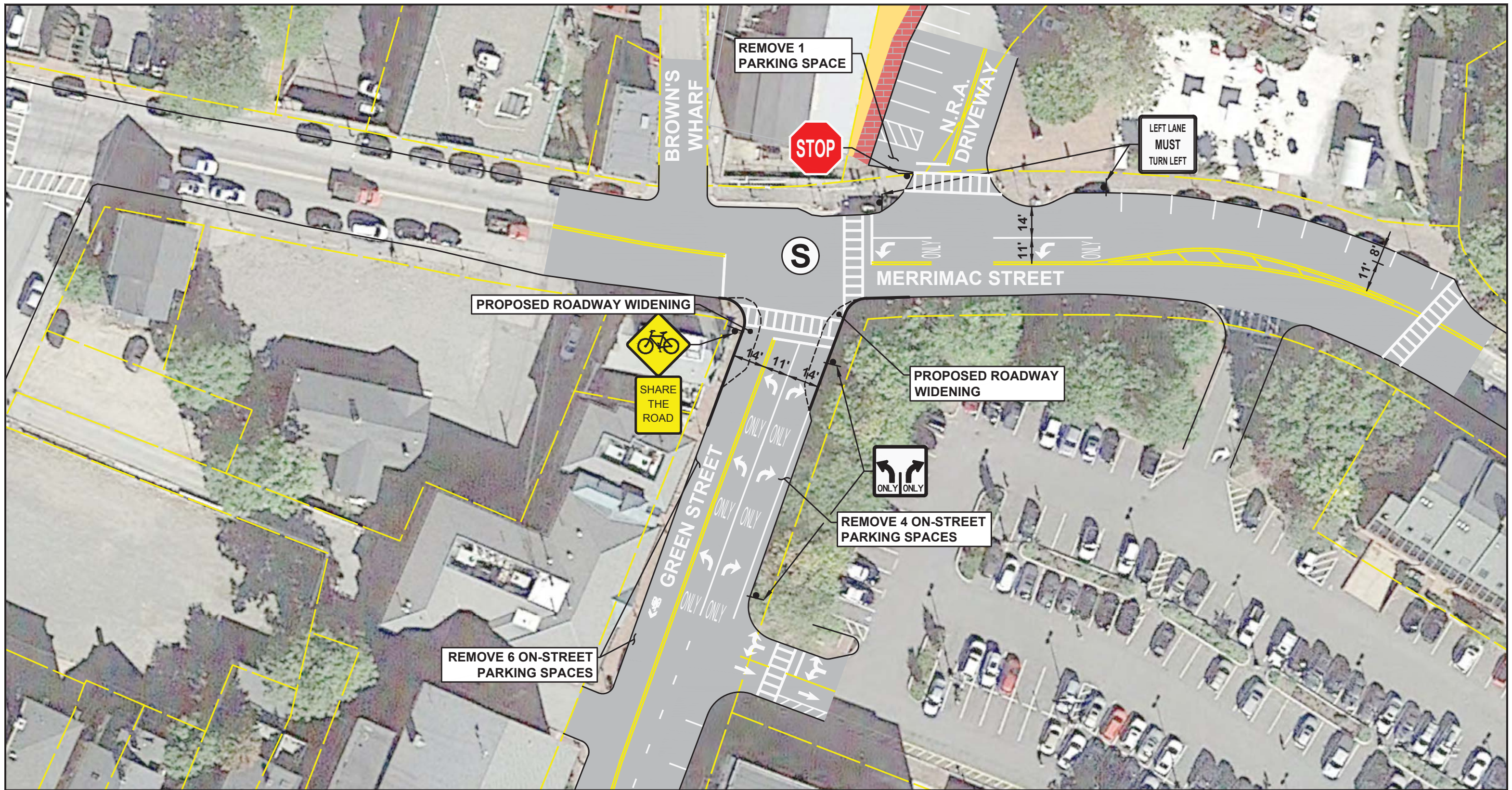


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



Downtown Circulation Study
Newburyport, Massachusetts
Two-Way Green Street
Conceptual Design

Figure
16C

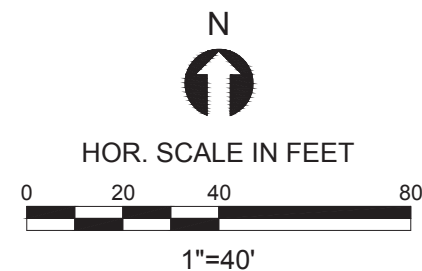
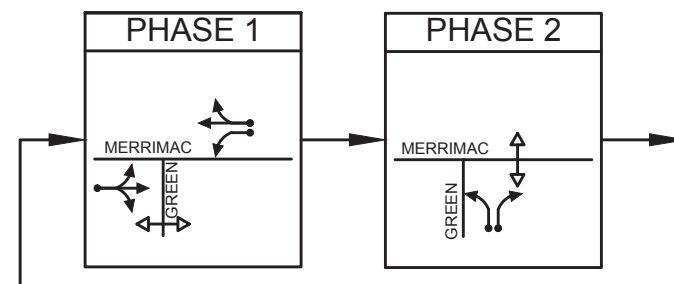


P:\32030\143-32030-15001\CAD\ModelFiles_HD (Roadway Concept Design - GREEN AT MERRIMAC_ALT2B).dwg 12/6/2018 11:23:47 AM



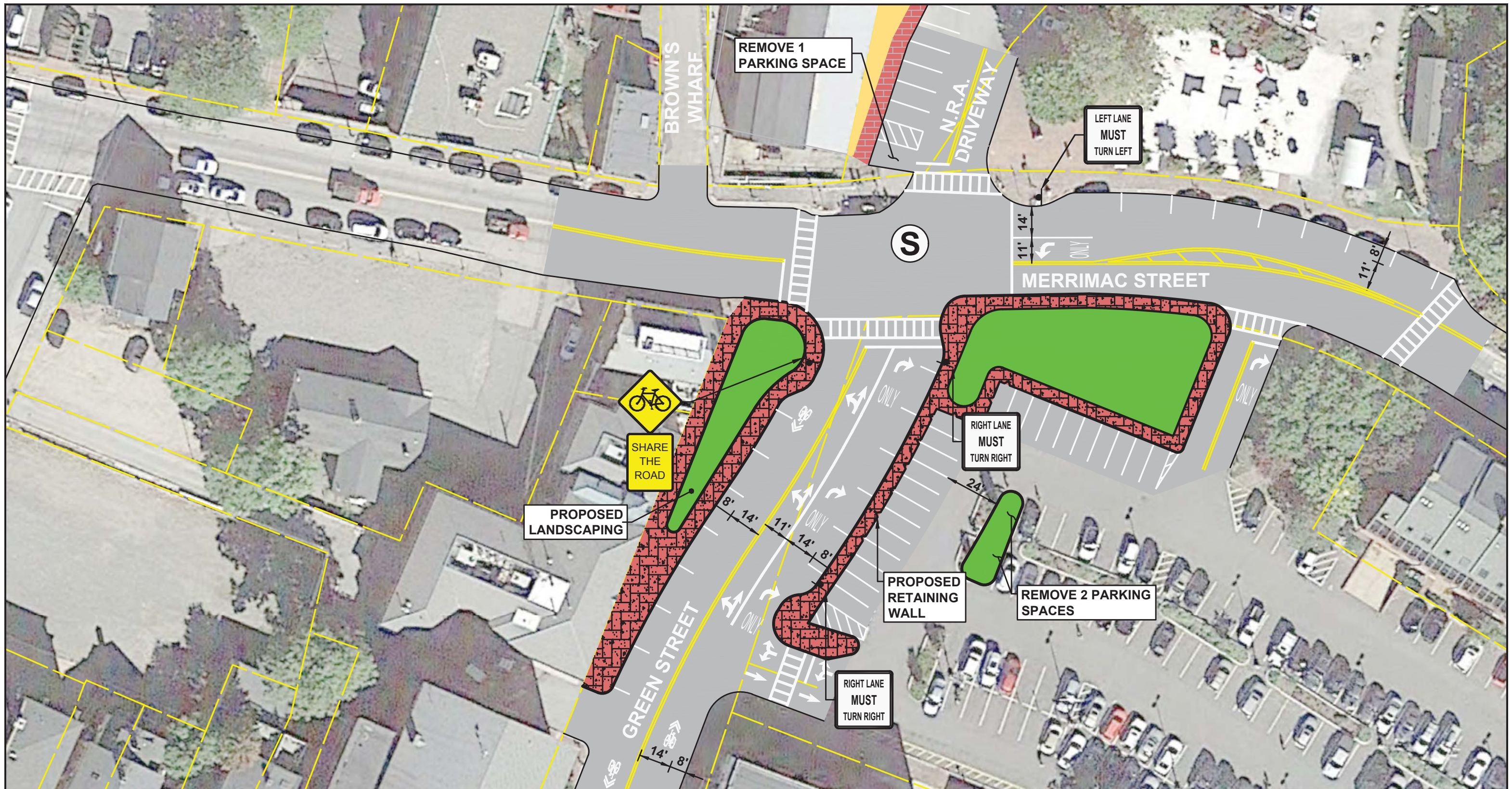
100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

PROPOSED TRAFFIC SIGNAL PHASING



Downtown Circulation Study
Newburyport, Massachusetts
Merrimac St./Green St.
Conceptual Design
Alternative 2B
Partial Traffic Signal Control

Figure
18

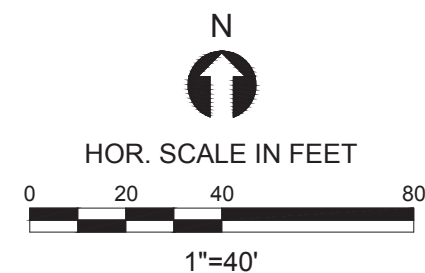
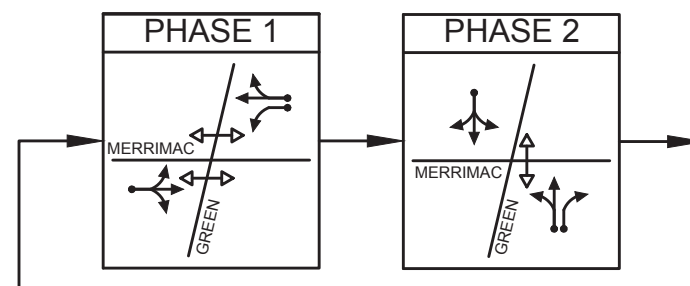


P:\32030\143-32030-15001\CAD\ModelFiles_HD (Roadway Concept Design - GREEN AT MERRIMAC_ALT3).dwg 12/6/2018 3:10:22 PM



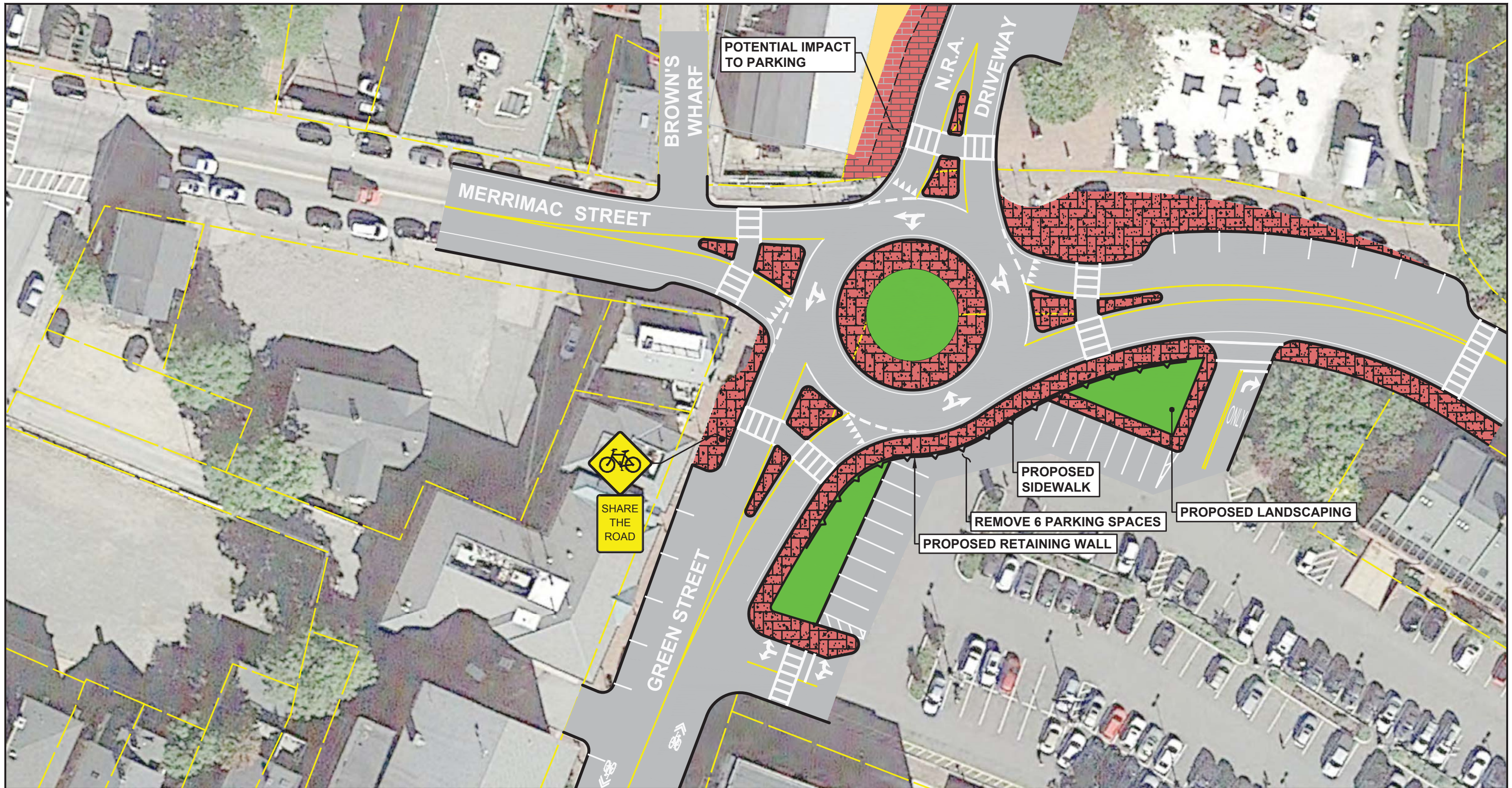
100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

PROPOSED TRAFFIC SIGNAL PHASING



Downtown Circulation Study
Newburyport, Massachusetts
Merrimac St./Green St.
Conceptual Design Alternative 3
Realigned Green St. and Full
Signal Control

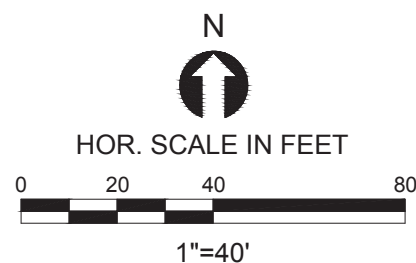
Figure
19



P:\32030\143-32030-15001\CAD\ModelFiles_HD (Roadway Concept Design - GREEN AT MERRIMAC_ALT4).dwg 12/6/2018 4:31:51 PM

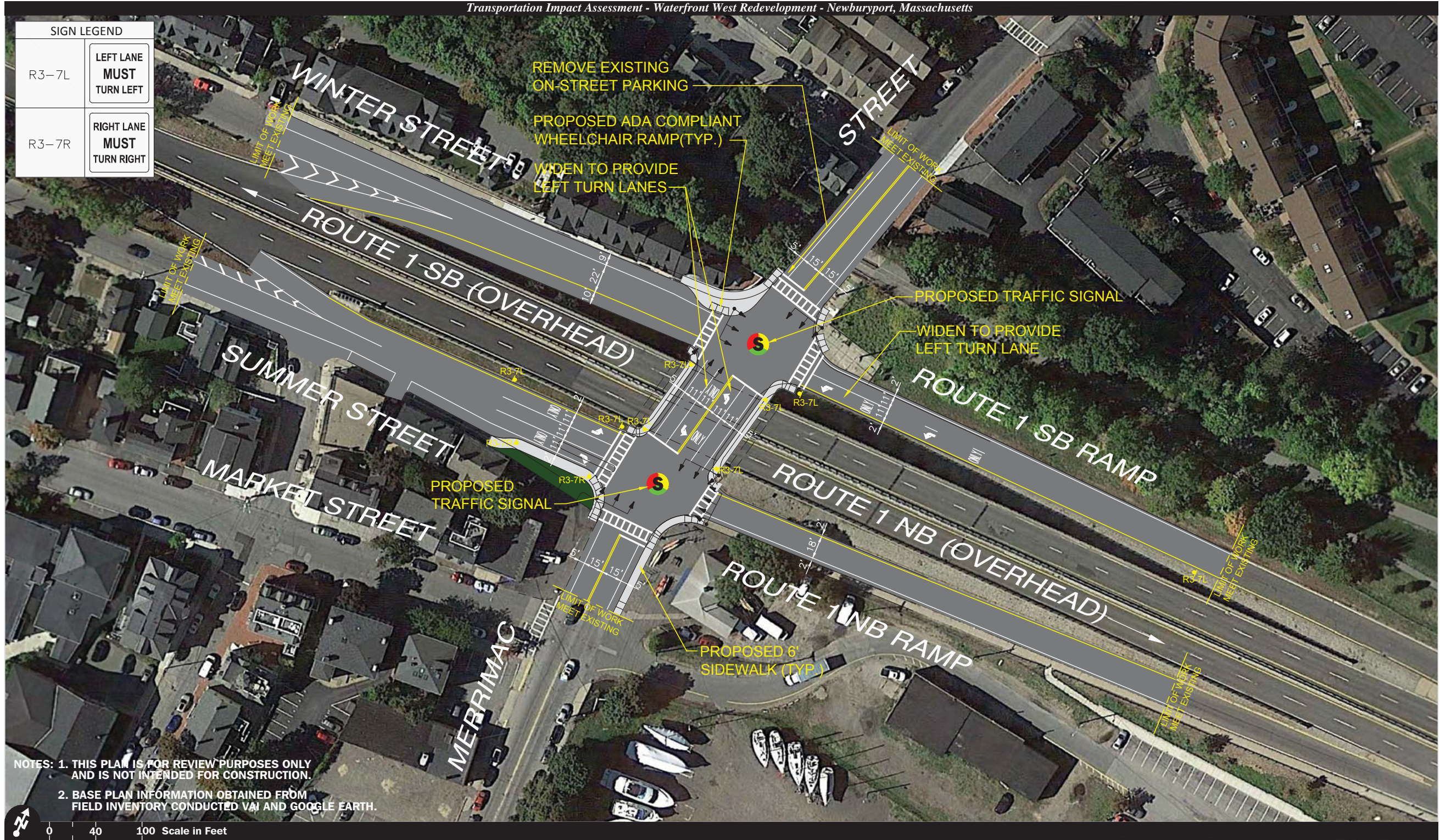


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



Downtown Circulation Study
Newburyport, Massachusetts
Merrimac St./Green St.
Conceptual Design Alternative 4
Roundabout Control

Figure
20



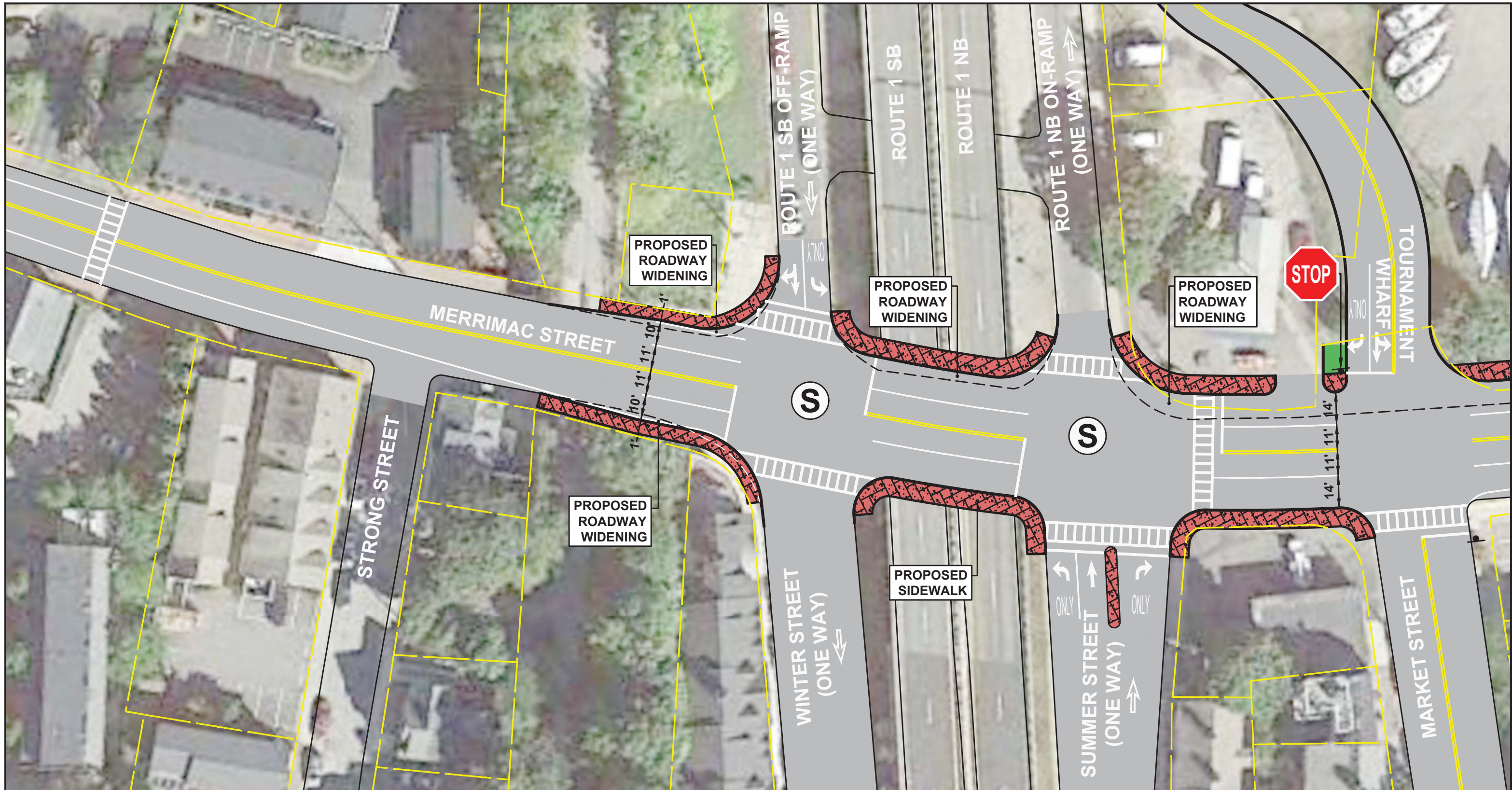
Conceptual Improvement Plan
Merrimac Street at Summer Street,
Winter Street and Route 1 Ramps



100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

Downtown Circulation Study
Newburyport, Massachusetts

Merrimac St. Route 1 Ramps
Conceptual Design
by others

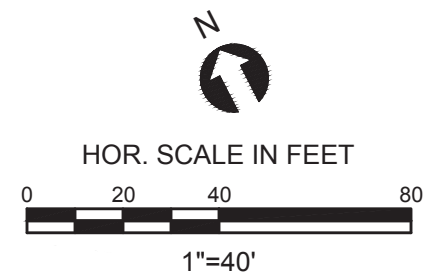
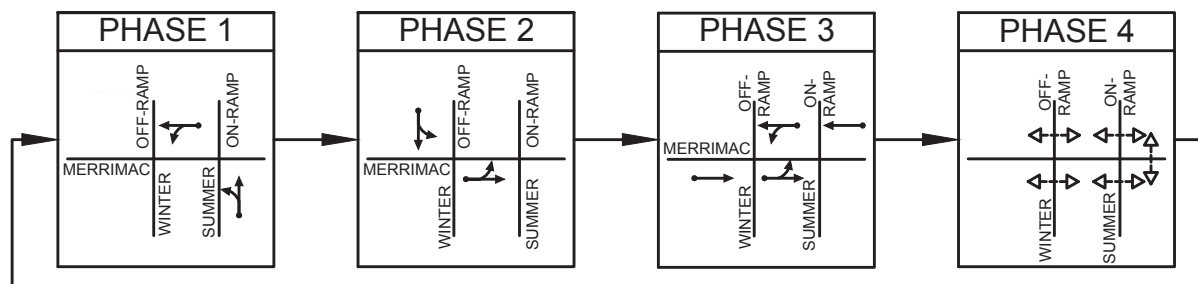


P:\32030\143-32030-15001\CAD\ModellFiles_HD (Roadway Conceptual Design - ROUTE 1).dwg 12/4/2018 7:11:09 PM



100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com

PROPOSED TRAFFIC SIGNAL PHASING



Downtown Circulation Study
Newburyport, Massachusetts
Merrimac St./Route 1 Ramps
Conceptual Design

Figure
22A



P:\32030\143-32030-15001\CAD\ModellFiles_HD (Roadway Conceptual Design - ROUTE 1).dwg 12/4/2018 7:11:09 PM



100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



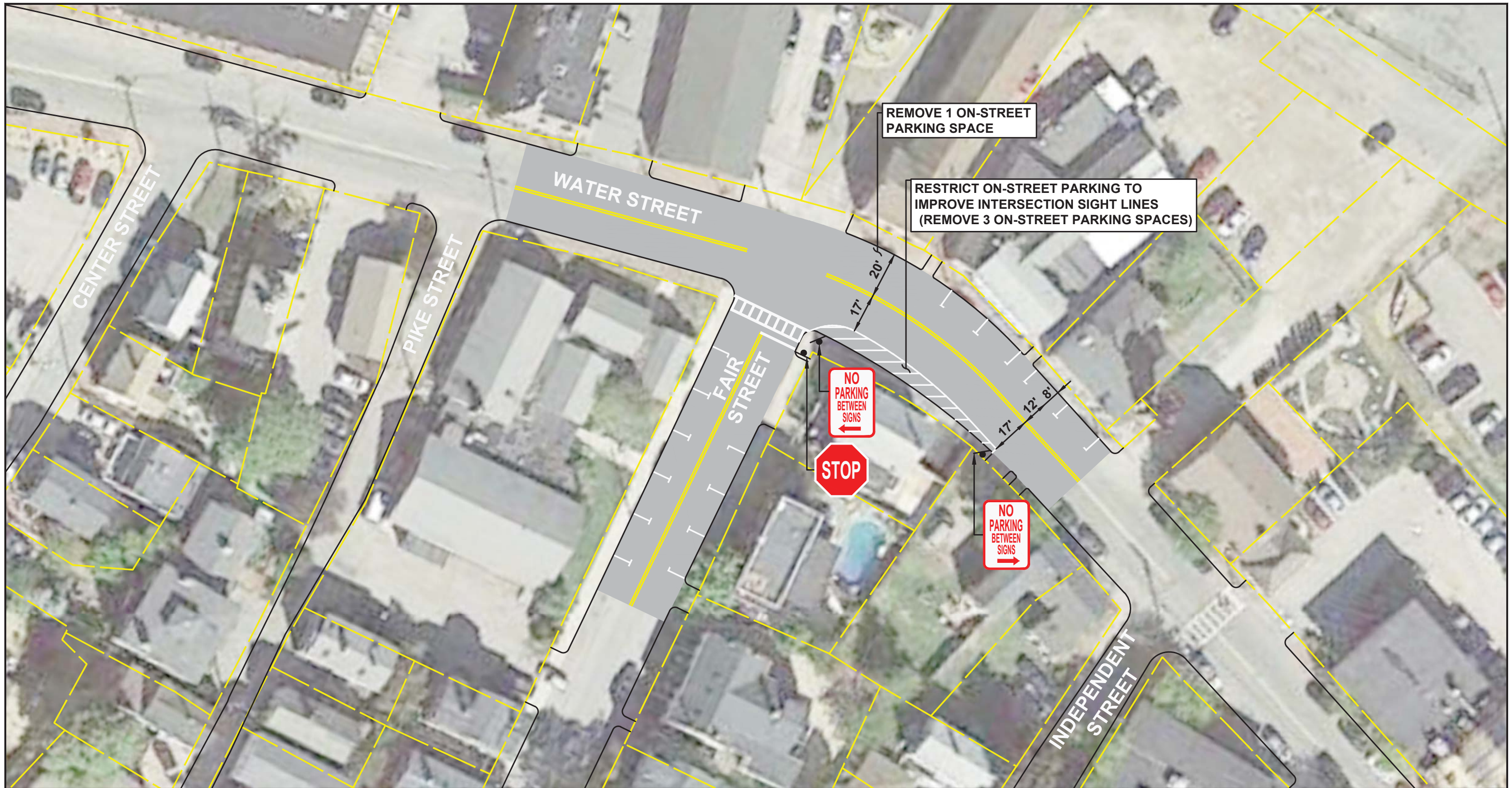
HOR. SCALE IN FEET



1"=40'

Downtown Circulation Study
Newburyport, Massachusetts
Merrimac St./Route 1 Ramps
Conceptual Design

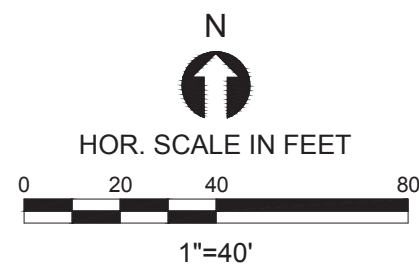
Figure
22B



P:\32030\143-32030-15001\CAD\ModelFiles_HD (Roadway Concept Design - WATER INTS).dwg 12/4/2018 7:17:30 PM

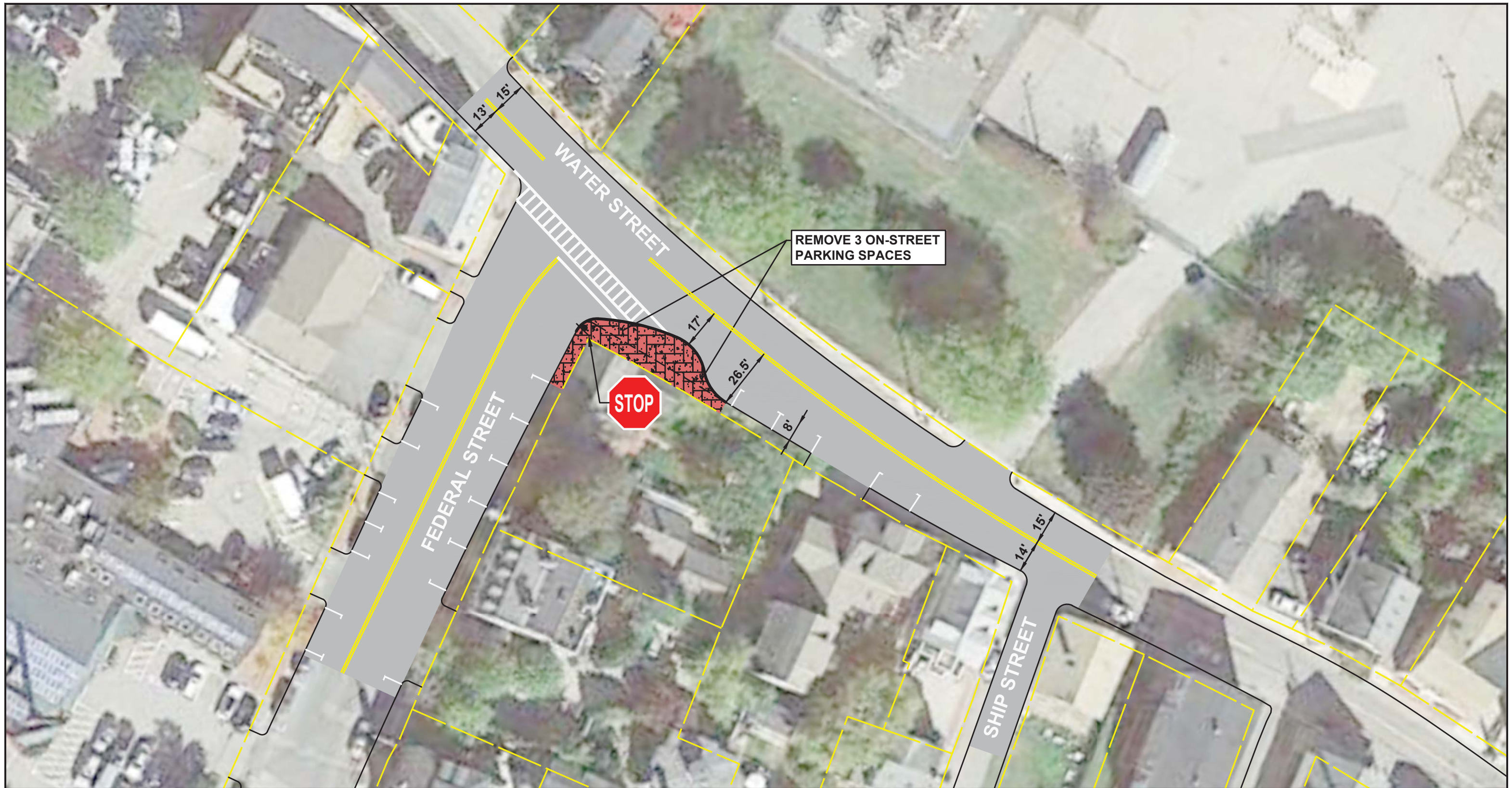


100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



Downtown Circulation Study
Newburyport, Massachusetts
Water St./Fair St.
Conceptual Design

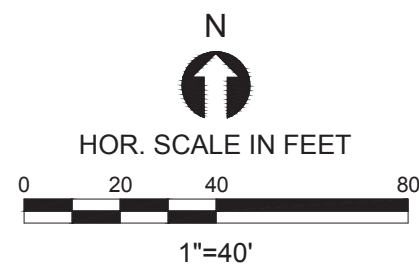
Figure
23



P:\32030\143-32030-15001\CAD\ModelFiles_HD (Roadway Concept Design - WATER INTS).dwg 12/4/2018 7:17:30 PM



100 Nickerson Road
Marlborough, MA 01752
508.786.2200
www.tetratech.com



Downtown Circulation Study
Newburyport, Massachusetts
Water St./Federal St.
Conceptual Design

Figure
24