# NHDES and DOT Corridor Prioritization for DC Fast Chargers

SB 517 EV Infrastructure Commission

January 25, 2019

# Resources Used

- MJ Bradley gap analysis tool presented in October by Georgetown Climate Center
- NHDOT traffic volume data
- Location of existing DCFC in NH
- Location of existing DCFC in border states/provinces
- Existing FHWA EV Corridor Designations

## High Traffic Gaps Map

- Ranks exits based on traffic density and distance to nearest DC Fast Charger

### Legends

**Public DCFC Stations (along selected corridors)**

Connector Type(s)

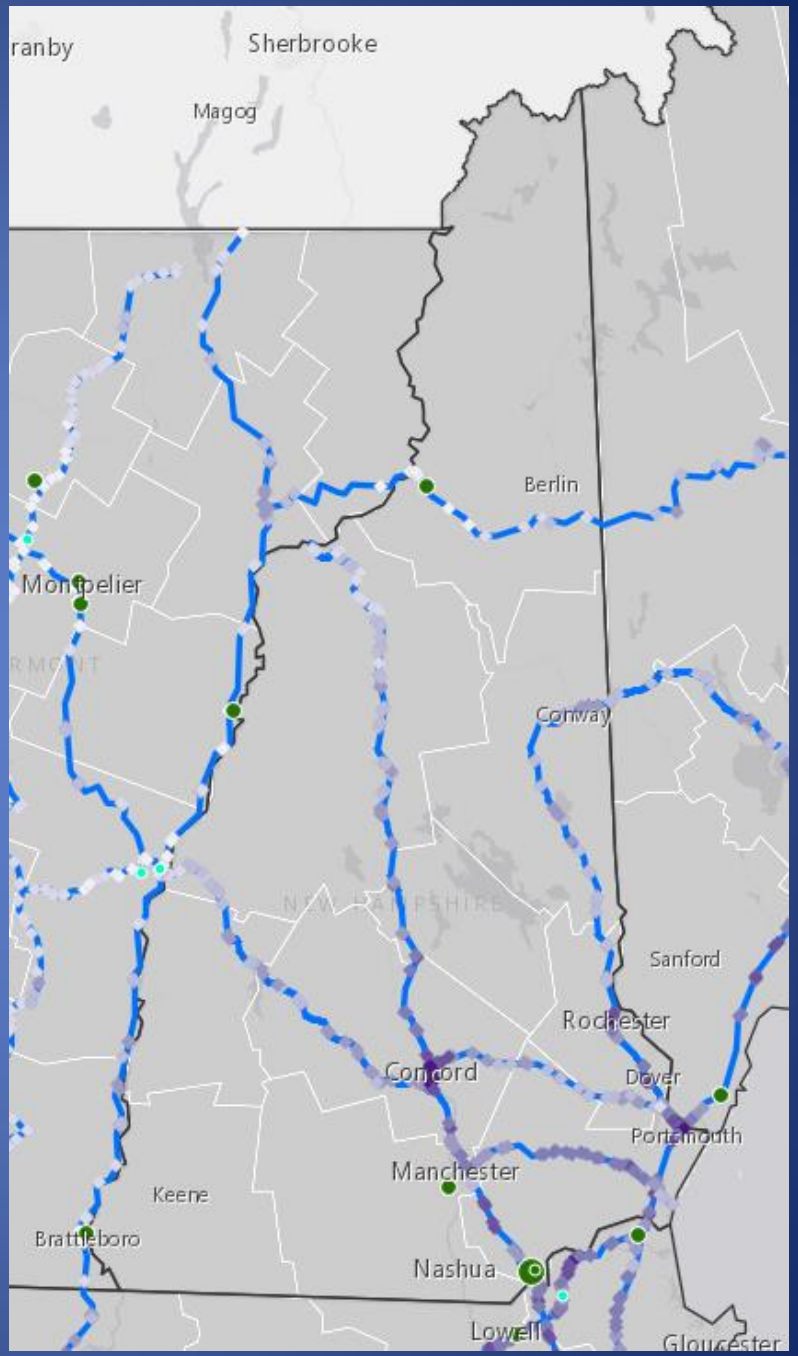
- CHAdeMO & SAE
- SAE
- CHAdeMO

Charging Ports

- > 16
- 12
- 8
- 5
- < 1

Final Score

- High Suitability/Rank
- Medium Suitability/Rank
- Low Suitability/Rank




Source: MJ Bradley & Associates EV Infrastructure Location Identification Tool v2.1

## Fill Gaps Map

- Ranks exits based on distance to nearest DC Fast Charger

### Legends

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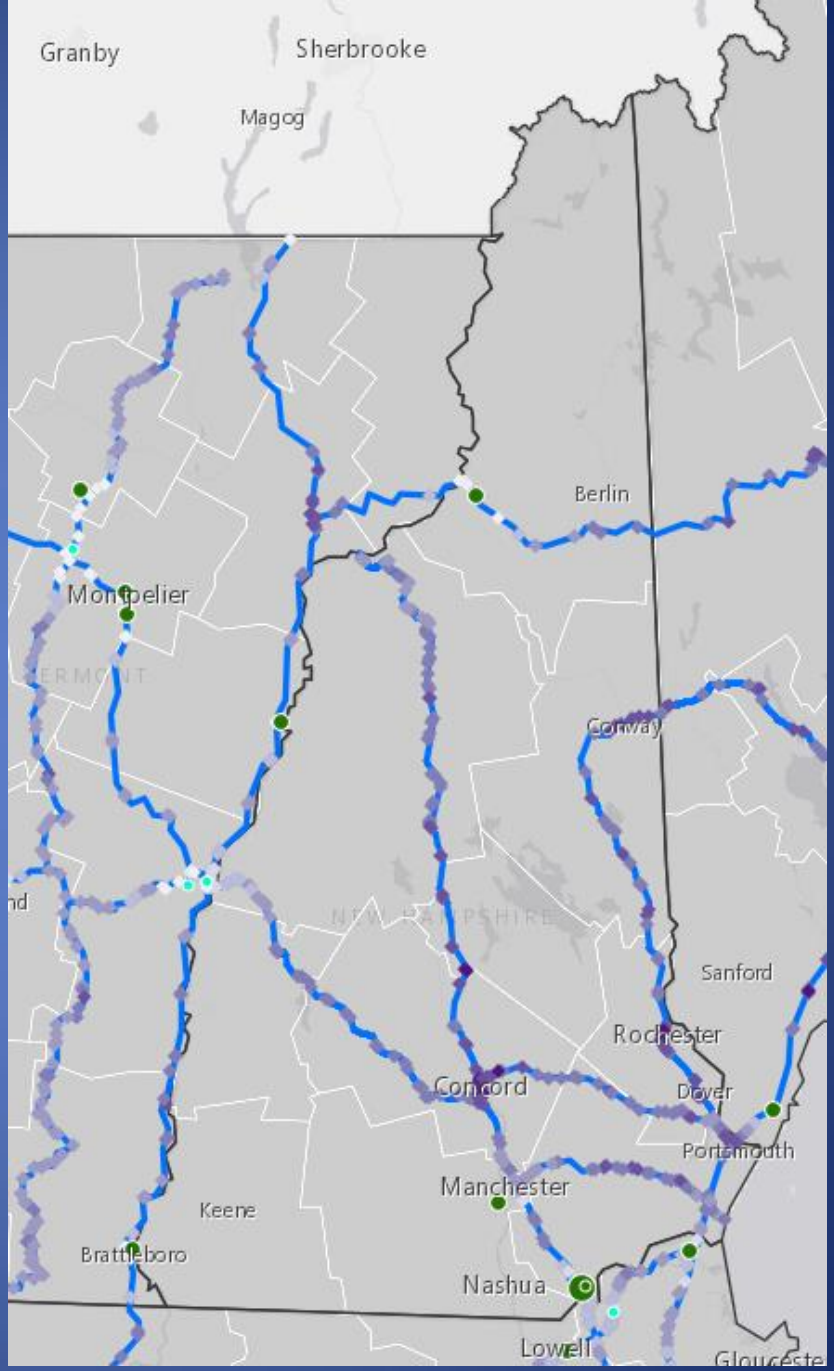
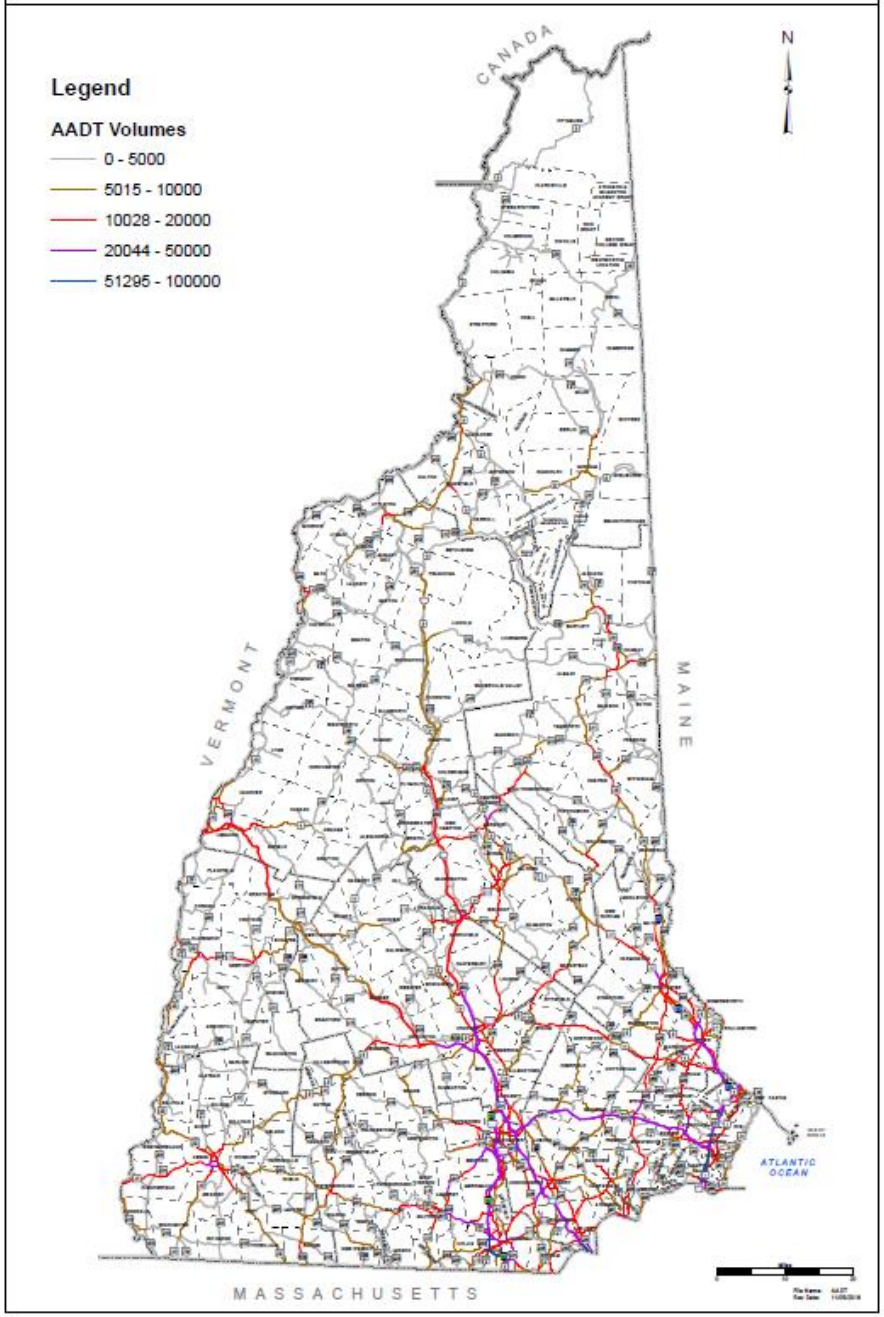



Source: MJ Bradley & Associates EV Infrastructure Location Identification Tool v2.1

# Annual Average Daily Traffic

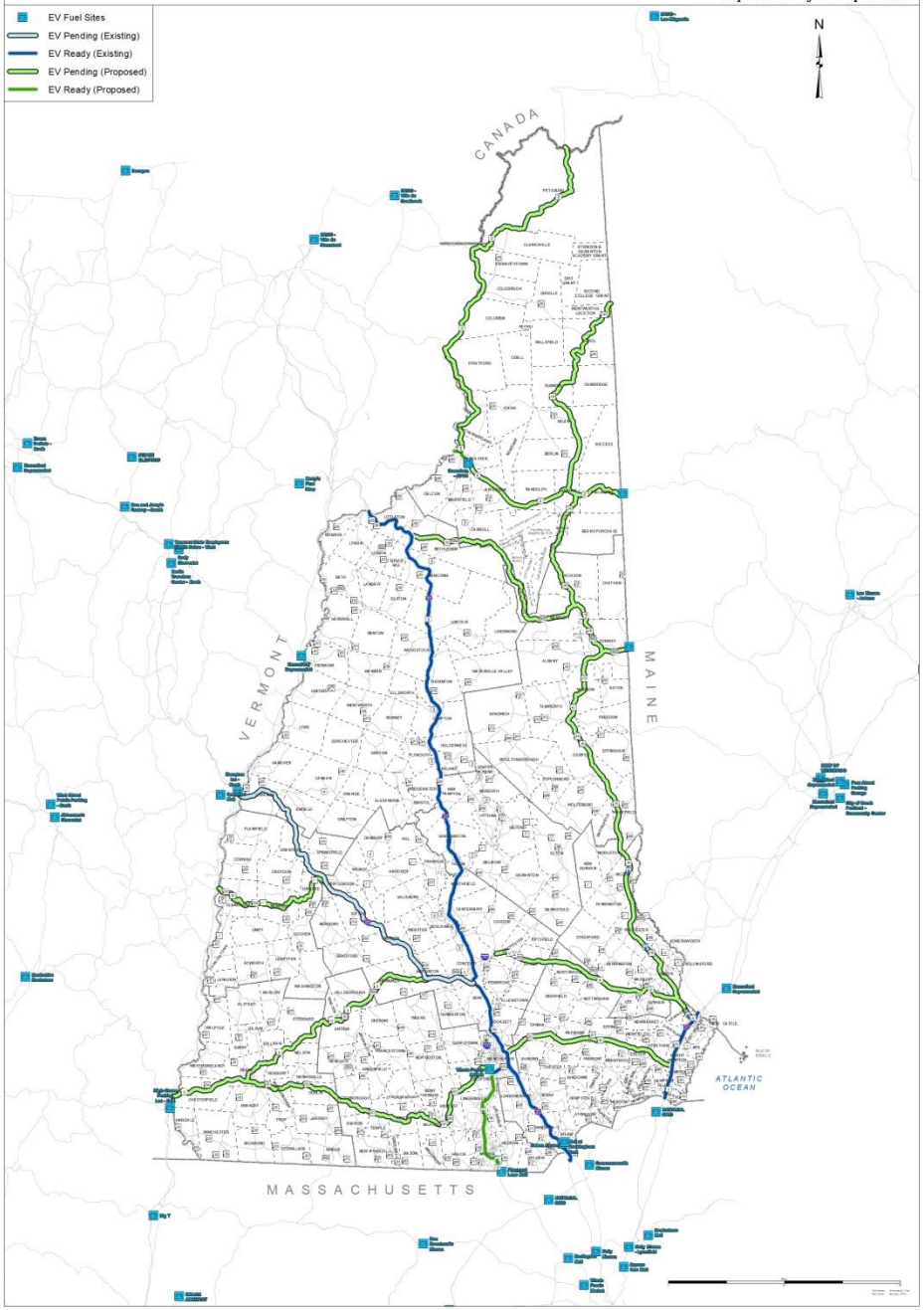
State System Roads

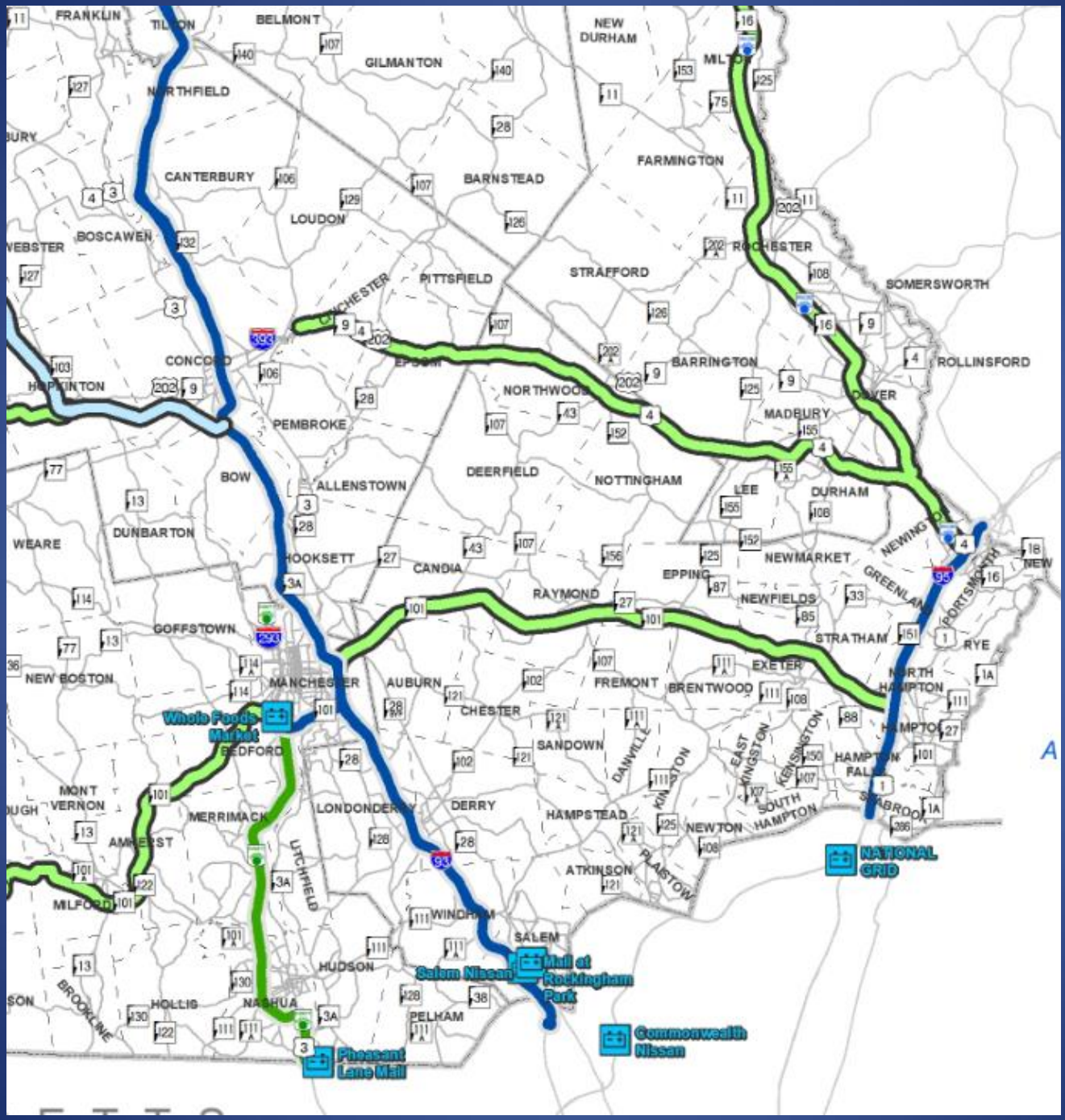


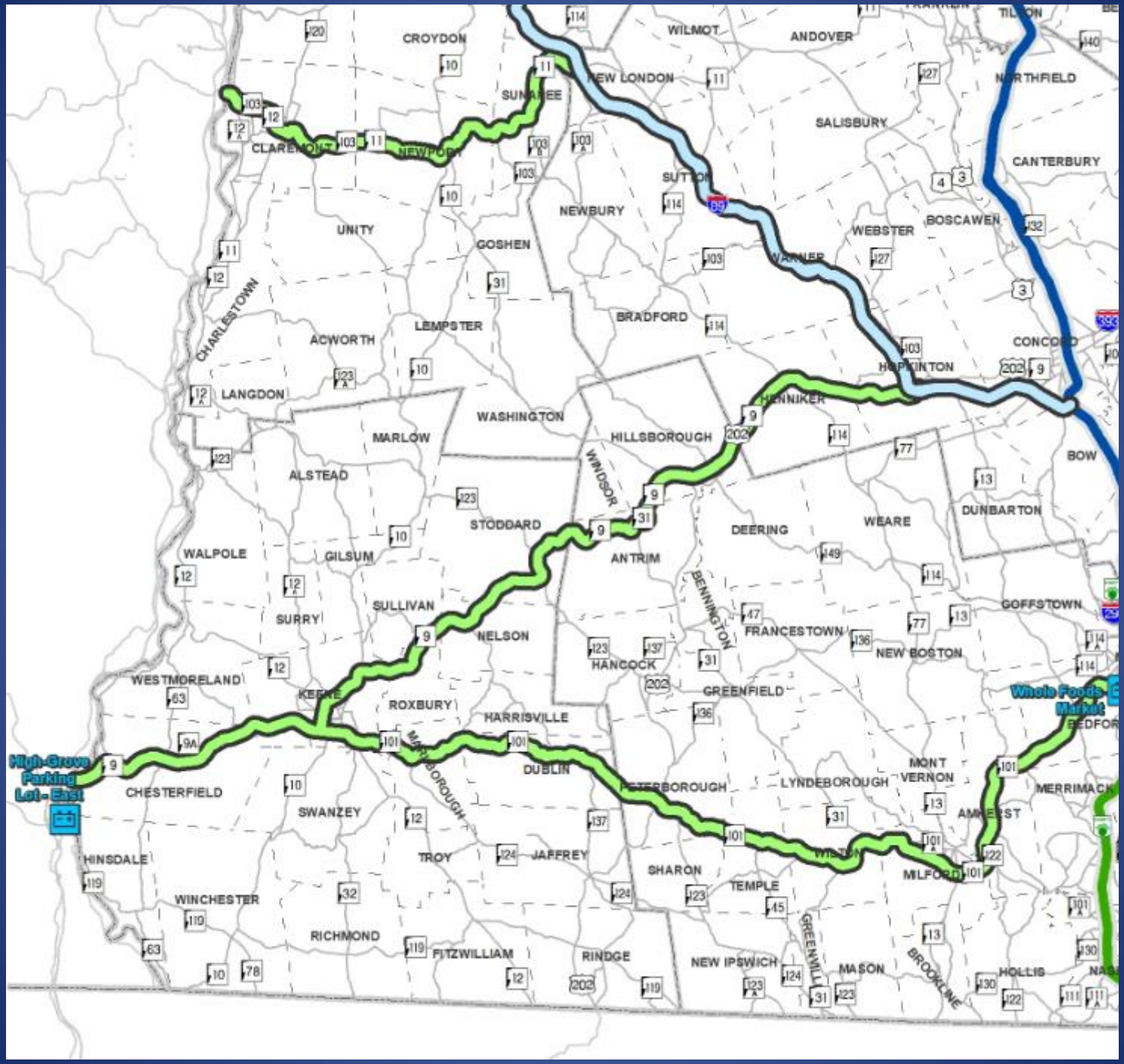
# Electric Vehicle (EV) Resources

## Existing & Proposed Corridors & Fuel Sites

New Hampshire DOT
Department of Transportation




FRANKLIN
BELMONT
GILMANTON
NEW DURHAM
NORTHFIELD
CANTERBURY
BARNSTEAD
FARMINGTON
LOUDON
BOSCAWEN
PITTSFIELD
STRAFFORD
ROCHESTER
SOMERSWORTH
CONCORD
BARRINGTON
ROLLINSFORD
NORTHWOOD
MADBURY
PEMBROKE
DEERFIELD
NOTTINGHAM
DURHAM
BOW
ALLENSTOWN
LEE
DUNBARTON
WEARE
HOOKSETT
CANDIA
EPPING
NEWMARKET
RAYMOND
NEWFIELDS
GOFFSTOWN
STRATHAM
RYE
NEW BOSTON
MANCHESTER
AUBURN
FREMONT
BRENTWOOD
EXETER
CHESTER
SANDOWN
HAMPTON
Whole Foods Market
BEDFORD
MERRIMACK
LONDONDERRY
DERRY
HAMPSTEAD
NEWTON
SOUTH HAMPTON
AMHERST
ATKINSON
NATIONAL GRID
WINDHAM
SALEM
HUDSON
Salem Nissan
Mall at Rockingham Park
NASHUA
PELHAM
HOLLIS
Commonwealth Nissan
Pheasant Lane Mall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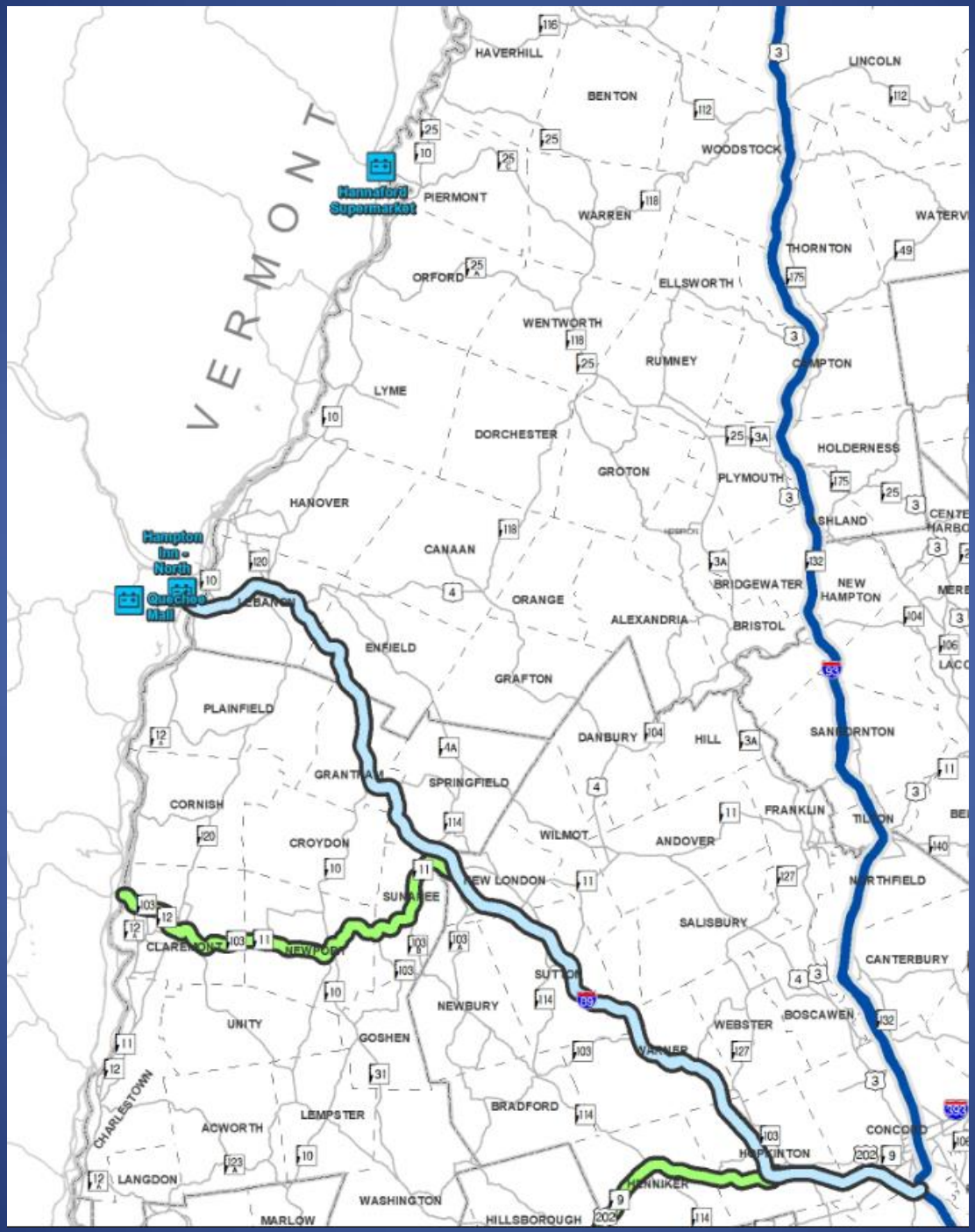
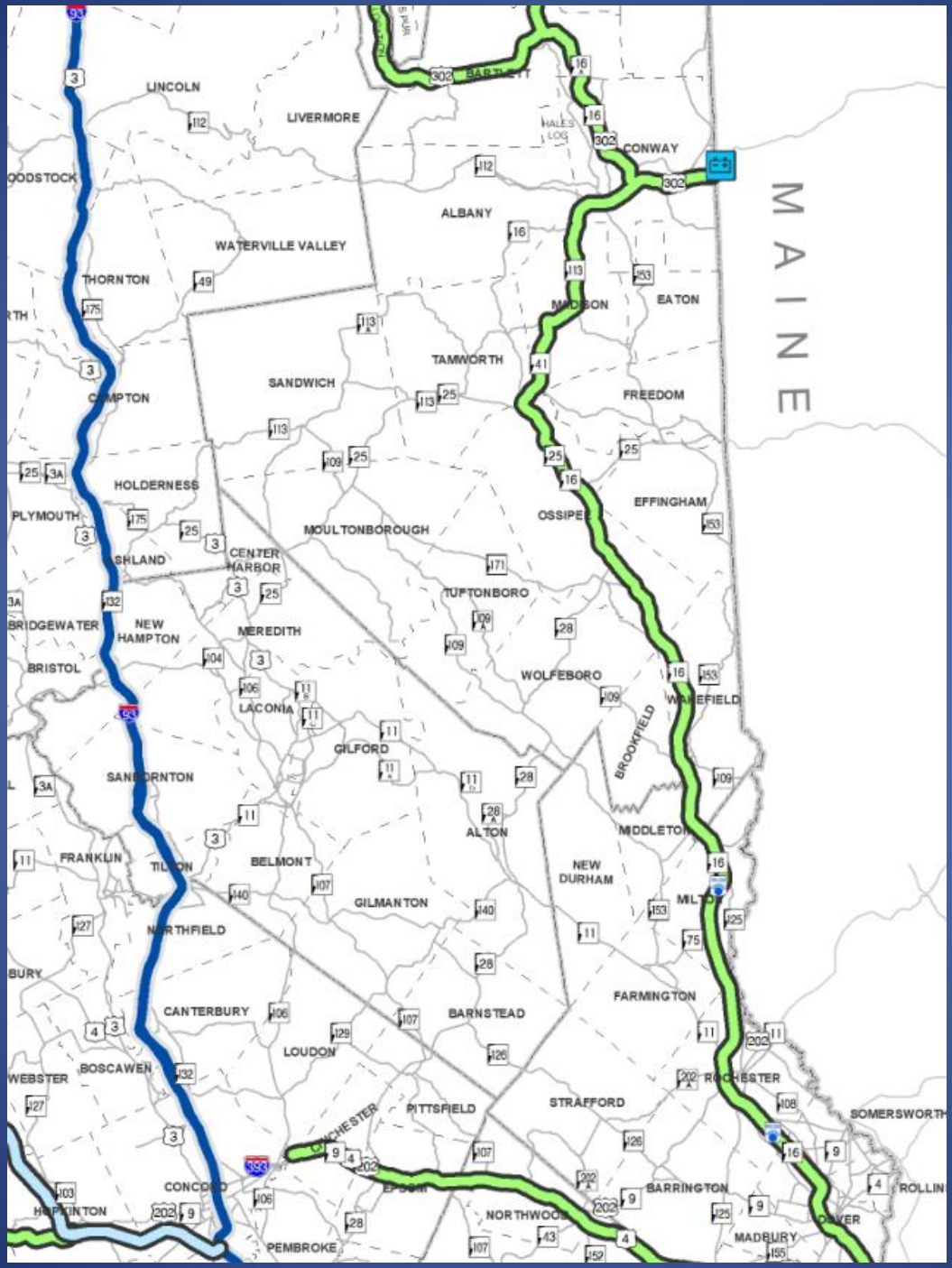
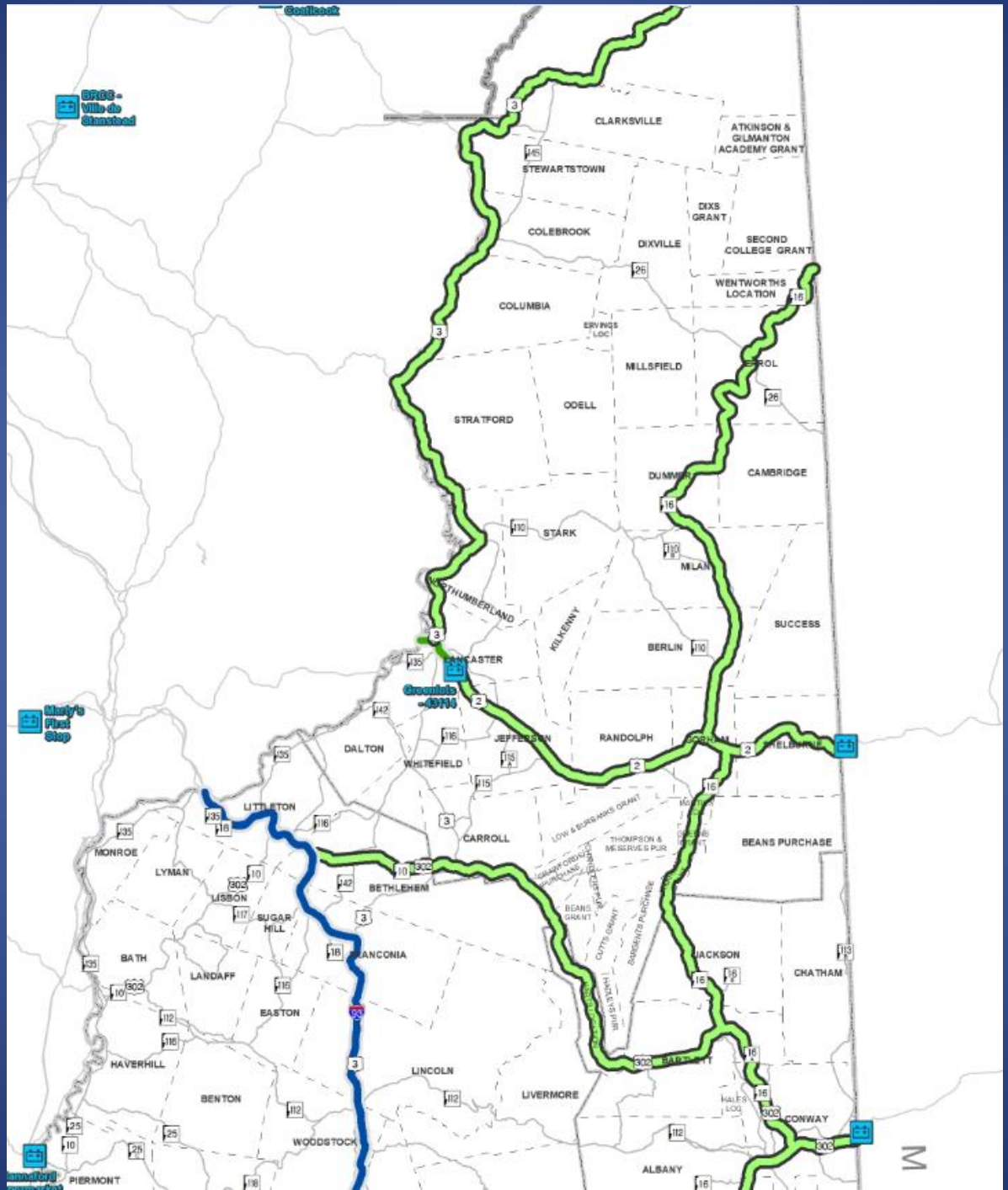
WILMOT
ANDOVER
NEW LONDON
SUNAPEE
NORTHFIELD
SALISBURY
CANTERBURY
CLAREMONT
NEWPORT
SUTTON
NEWBURY
WEBSTER
BOSCAWEN
UNITY
GOSHEN
WARNER
CHARLESTOWN
BRADFORD
CONCORD
ACWORTH
LEMPSTER
HENNIKER
LANGDON
WASHINGTON
HILLSBOROUGH
MARLOW
WINDSOR
BOW
ALSTEAD
STODDARD
DEERING
WEARE
DUNBARTON
WALPOLE
GILSUM
ANTRIM
BENNINGTON
SULLIVAN
SURRY
NELSON
FRANCESTOWN
GOFFSTOWN
NEW BOSTON
HANCOCK
GREENFIELD
WESTMORELAND
KEENE
ROXBURY
HARRISVILLE
Whole Foods Market
High Grove Parking Lot - East
CHESTERFIELD
DUBLIN
PETERBOROUGH
LYNDEBOROUGH
MONT VERNON
MERRIMACK
AMHERST
SWANZEY
HINSDALE
TROY
JAFFREY
SHARON
TEMPLE
MILFORD
WINCHESTER
RICHMOND
FITZWILLIAM
RINDGE
NEW IPSWICH
MASON
HOLLIS
GREENVILLE
BROOKLINE


VERMONT
Hannaford Supermarket
Hampton Inn - North
Quechee Mall
HAVERHILL
BENTON
WOODSTOCK
LINCOLN
PIERMONT
WARREN
THORNTON
ORFORD
ELLSWORTH
WENTWORTH
RUMNEY
LYME
DORCHESTER
HOLDERNESS
GROTON
PLYMOUTH
HANOVER
CANAAN
ORANGE
ALEXANDRIA
BRISTOL
BRIDGEWATER
NEW HAMPTON
ENFIELD
GRAFTON
PLAINFIELD
DANBURY
SPRINGFIELD
CORNISH
CROYDON
WILMOT
ANDOVER
FRANKLIN
NEW LONDON
SUNAPEE
NORTHFIELD
SALISBURY
CANTERBURY
NEWBURY
WEBSTER
BOSCAWEN
UNITY
GOSHEN
CHARLESTOWN
ACWORTH
LEMPSTER
BRADFORD
LANGDON
WASHINGTON
MARLOW
HILLSBOROUGH


LINCOLN
LIVERMORE
CONWAY
ALBANY
WATERVILLE VALLEY
THORNTON
MADISON
EATON
TAMWORTH
SANDWICH
FREEDOM
COMPTON
HOLDERNESS
PLYMOUTH
MOULTONBOROUGH
EFFINGHAM
CENTER HARBOR
TUFTONBORO
BRIDGEWATER
NEW HAMPTON
MEREDITH
BRISTOL
WOLFEBORO
LACONIA
GILFORD
BROOKFIELD
ALTON
FRANKLIN
BELMONT
NEW DURHAM
GILMANTON
NORTHFIELD
FARMINGTON
CANTERBURY
BARNSTEAD
LOUDON
BOSCAWEN
PITTSFIELD
STRAFFORD
CONCORD
BARRINGTON
NORTHWOOD
PEMBROKE
MADBURY
MAINE


CLARKSVILLE
ATKINSON & GILMANTON ACADEMY GRANT
STEWARTSTOWN
DIXS GRANT
COLEBROOK
DIXVILLE
SECOND COLLEGE GRANT
WENTWORTHS LOCATION
COLUMBIA
ERVINGS LOC
MILLSFIELD
ODELL
STRATFORD
CAMBRIDGE
STARK
MILAN
NORTHUMBERLAND
KILKENNY
SUCCESS
BERLIN
LANCASTER
DALTON
WHITEFIELD
JEFFERSON
RANDOLPH
LITTLETON
CARROLL
BEANS PURCHASE
MONROE
LYMAN
BETHLEHEM
LISBON
SUGAR HILL
BATH
LANDAFF
FRANCONIA
JACKSON
CHATHAM
EASTON
HAVERHILL
LINCOLN
LIVERMORE
BENTON
CONWAY
WOODSTOCK
ALBANY
PIERMONT

# Alternative Fuel Corridor Signing

## Alternative Fuel Corridor Signing

| EV | CNG | LNG | Hydrogen | Propane |
|---|---|---|---|---|
| DCFC only | 150 miles between stations | 200 miles between stations | 100 miles between stations | 150 miles between stations |
| 50 miles between stations | 5 miles from highway | 5 miles from highway | 5 miles from highway | 5 miles from highway |
| 5 miles from highway | Public stations only | Public stations only | Public stations only | Public stations only |
| Public stations only *(no Tesla)* | Fast fill, 3,600 psi | | | Primary stations only |

## Sample Sign

# EV General Service Signing

**NHDOT Guidelines**

- DC Fast (Level 3) and/or Level 2 Electric Vehicle Charging Stations with 2 or more connectors, available for public use without any conditions or requirements.
- Services will be required continuously between the hours of 8:00 AM and 8:00 PM, seven days a week

**Sample Sign to be installed under guide sign**