NEW CONSTRUCTION DECISION TREE

UPDATED JANUARY 2024

Use this tool to quickly identify key decisions, map out options, and communicate clearly the chosen pathways that demonstrate
Massachusetts energy code compliance.

HOW TO USE:

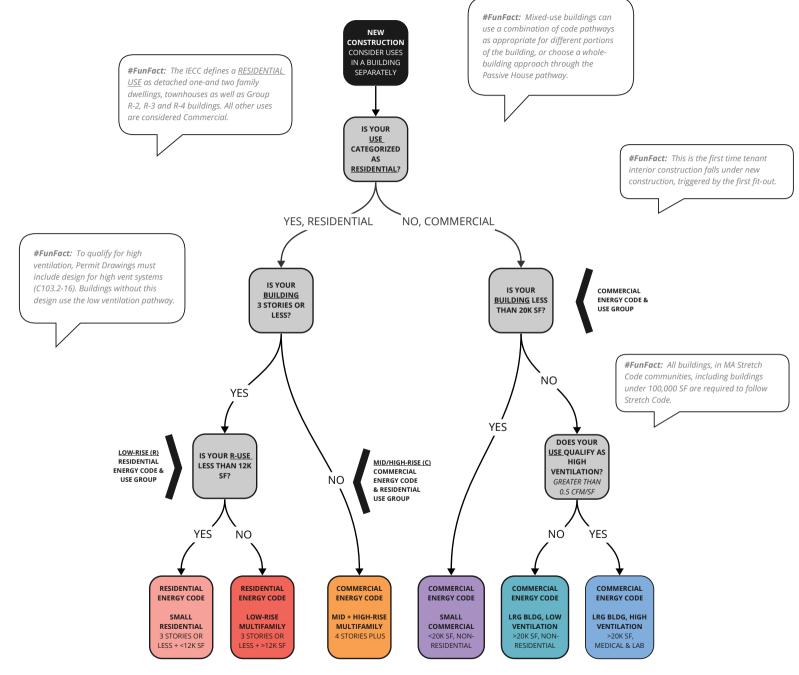
- **1. START** with the main decision tree, existing or new construction
- 2. Consider **ONE USE** at a time, answering questions to
 - IDENTIFY the code "branch"
 - Navigate through the appropriate CODE BRANCH by establishing the path that represent your project
- 3. For *MIXED-USE BUIDLINGS*, repeat the process for each use group

The branches do not contain all energy code requirements. Instead, it notes options or decisions which send you down a path. The path points to the relevant code section(s), detailing project requirements.

BE MINDFUL:

The International Energy Conservation
Code (IECC) is a model energy code, which
forms the basis for the Massachusetts
energy codes. The first bucket, the Base
Energy Code, is the minimum required
energy code in Massachusetts. The second
bucket, the Stretch Code, is a stricter
option towns and cities have already
voted to incorporate. The third bucket, the
Specialized Opt-in Code, includes
additional requirements in addition to
the Base and Stretch Code and is
available for municipal vote as of
December 2022.

This effort to map out MA Energy Code compliance pathways does not account for impacts of other codes and ordinances that may apply to projects.

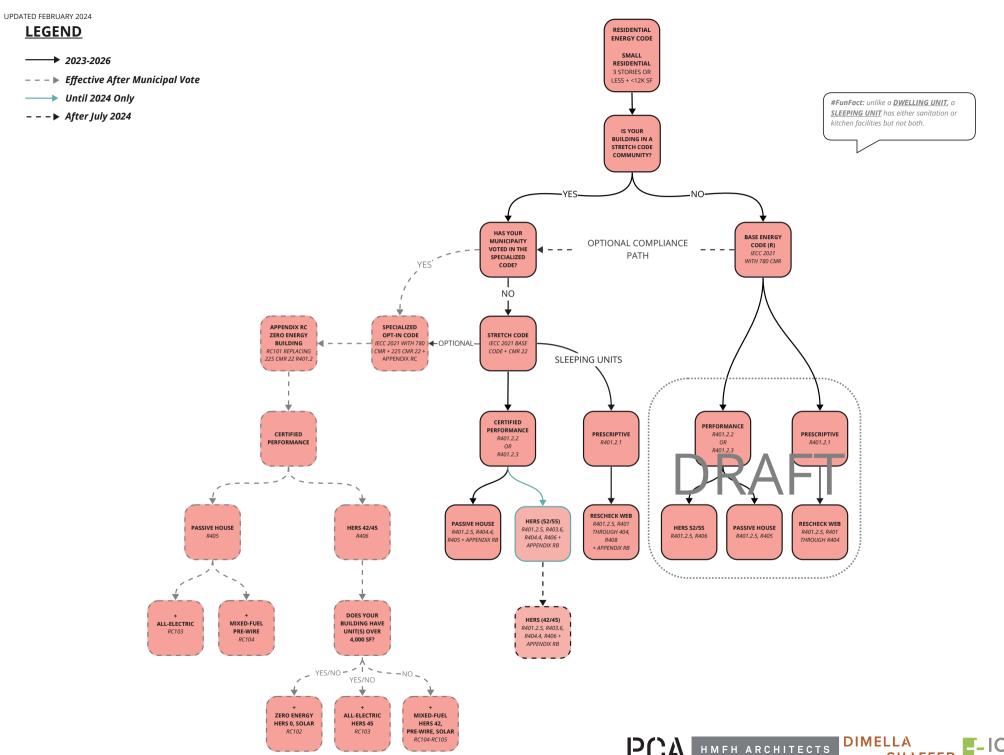




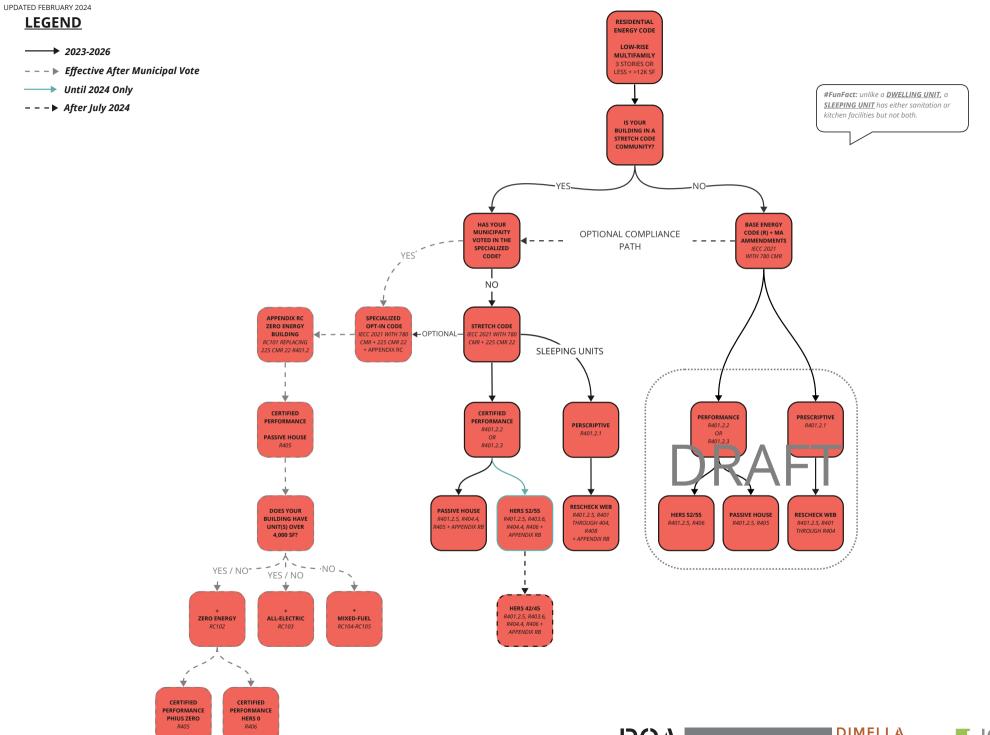




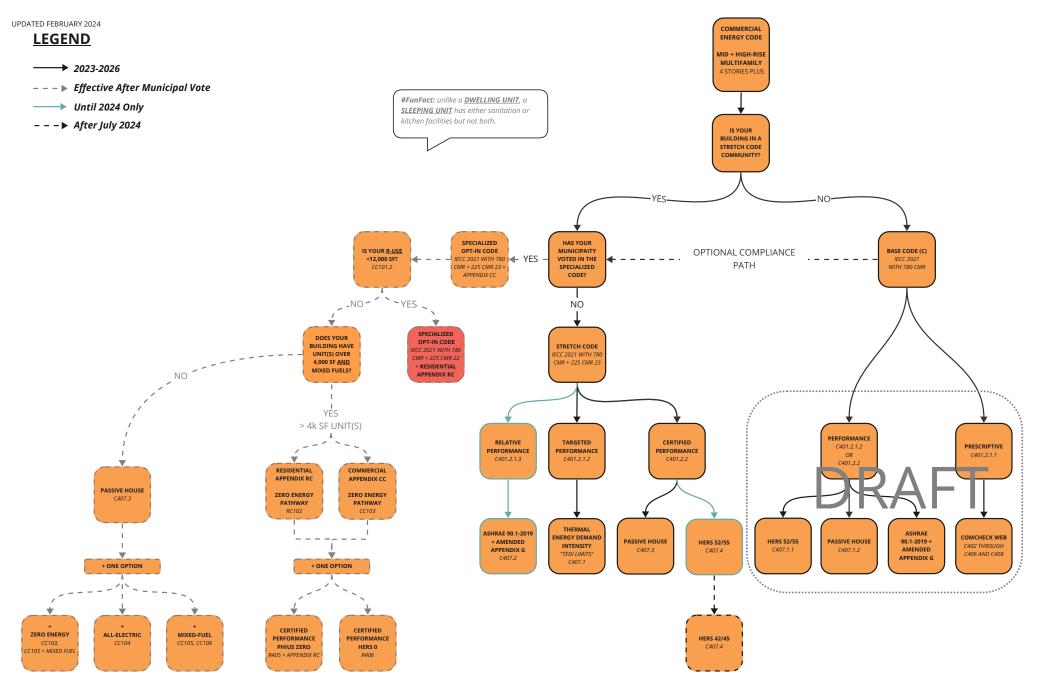
LOW-RISE RESIDENTIAL BRANCH: 3 STORIES OR LESS <12,000 SF



LOW-RISE RESIDENTIAL BRANCH: 3 STORIES OR LESS >12,000 SF



COMMERCIAL BRANCH: RESIDENTIAL 4 STORIES OR MORE



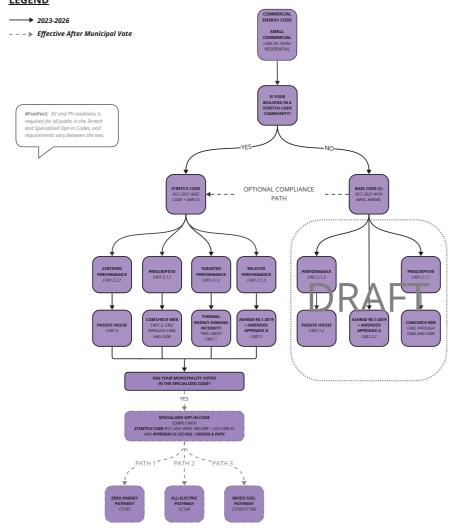




COMMERCIAL BRANCH: <20,000 SF

UPDATED JANUARY 2024

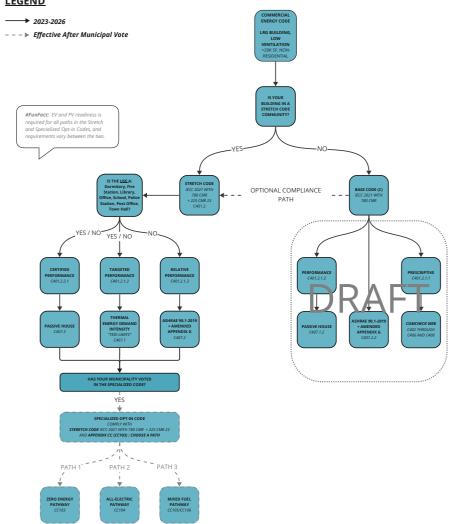
LEGEND



COMMERCIAL BRANCH: LOW-VENTILATION >20,000 SF

UPDATED JANUARY 2024





COMMERCIAL BRANCH: HIGH-VENTILATION >20,000 SF

UPDATED JANUARY 2024

LEGEND → 2023-2026 #SuperFunFact: To qualify for high - - - ▶ Effective After Municipal Vote ventilation, Permit Drawings must VENTILATION include design for high vent systems (C103.2-16). Buildings without this design use the low ventilation pathway. BUILDING IN A #FunFact: EV and PV readiness is required for all paths in the Stretch and Specialized Opt-in Codes, and requirements vary between the two NO-STRETCH CODE IECC 2021 WITH OPTIONAL COMPLIANCE BASE CODE (C) IECC 2021 WITH 780 CMR PATH + 225 CMR 23 TARGETED PERFORMANCE RELATIVE PERFORMANCE C401.2.1.3 PERFORMANCE PRESCRIPTIVE C401.2.1.2 C401.2.1.1 C401.2.1.2 ASHRAE 90.1-201 ASHRAE 90.1-2019 ENERGY DEMAND COMCHECK WEB PASSIVE HOUSE C407.3 + AMENDED APPENDIX G PASSIVE HOUSE C407.1.2 "TEDI LIMITS" C402 THROUGH C406 AND C408 C407.2 HAS YOUR MUNICIPALITY VOTED IN THE SPECIALIZED CODE? YES SPECIALIZED OPT-IN CODE COMPLY WITH STERETCH CODE IECC 2021 WITH 780 CMR + 225 CMR 23 AND APPENDIX CC (CC103): CHOOSE A PATH #FunFact: Any building in a Stretch Code community can choose to follow the TEDI path. Because a building has to model ventilation rates as no lower

-- PATH 3

MIXED FUEL

PATH 2

ALL-ELECTRIC

PATHWAY CC104

PATH 1

ZERO ENERGY

CC103

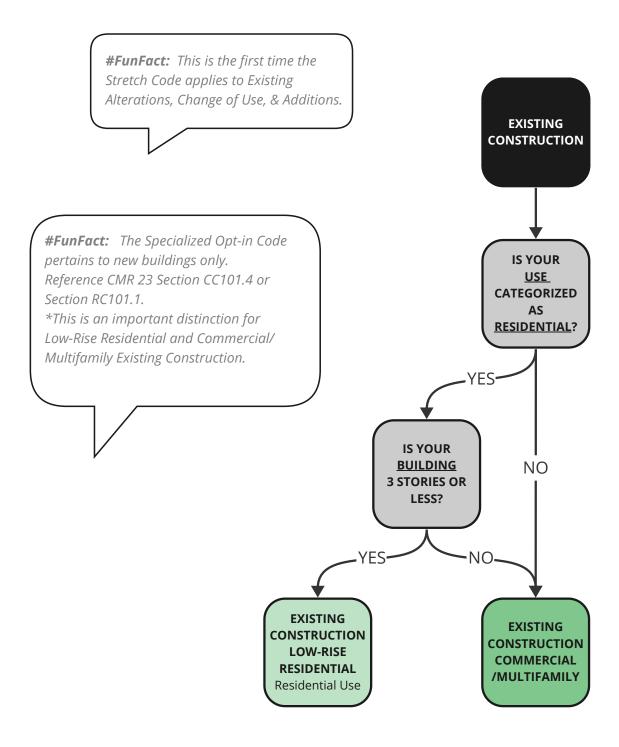
than the ASHRAE 62.1 minimum, high

vent buildings are unlikely to choose



EXISTING CONSTRUCTION DECISION TREE

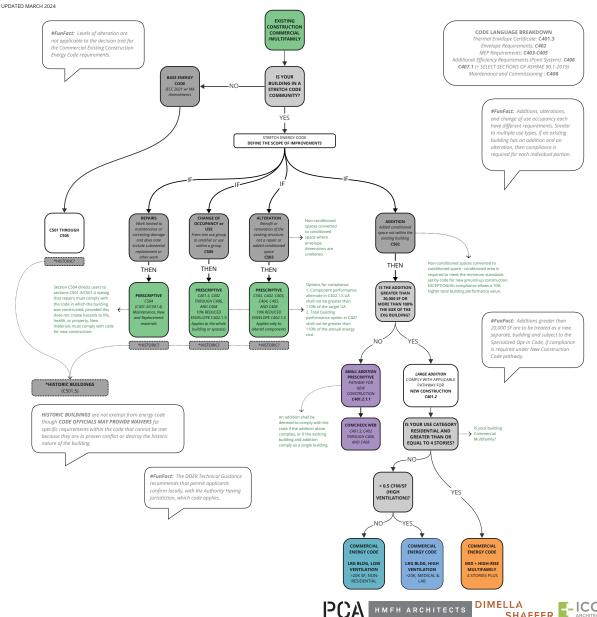
UPDATED JUNE 2023



#FunFact: Energy code defines a <u>RESIDENTIAL USE</u> as detached one-and two family dwellings, townhouses as well as Group R-2, R-3 and R-4 buildings. All other uses are considered Commercial.



EXISTING BRANCH: COMMERCIAL/MULTIFAMILY





EXISTING BRANCH: LOW-RISE RESIDENTIAL 3 STORIES OR LESS

