



CONSTRUCTION CODE MODERNIZATION PROJECT - 2021 CODE ADOPTION

**PRESENTATION TO
CONSTRUCTION CODE
MODERNIZATION COMMITTEE**

APRIL 28, 2023



PURPOSE

together we create a strong foundation
for Houston to thrive

5 TO THRIVE VALUES

respect | ownership | communication | integrity | teamwork





CONSTRUCTION CODES PLAY A MAJOR ROLE IN CLIMATE CHANGE

1. Only a dismal 35% of jurisdictions in the U.S. have current building codes in effect. Part of the reason is basic human nature: Jurisdictions don't take threats seriously until a disaster forces their hands.
2. Studies show that for every dollar we spend on resilience, we save \$6 on recovery.
3. In August 2017, here at home in Houston



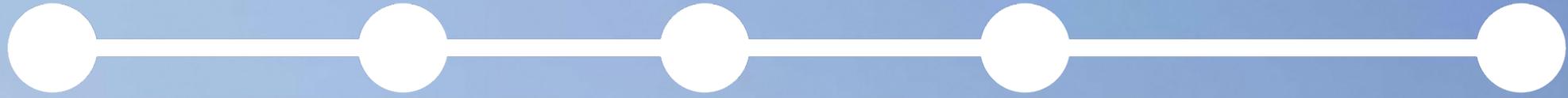
THEATER DISTRICT & HOUSTON DOWNTOWN UNDER WATER

Flooding during Hurricane Harvey August 2017



**HOUSTON
PUBLIC WORKS**

WHEN DISASTER STRIKES - THE IMPORTANCE OF BUILDING CODES



2017

2008
(1970)

2001

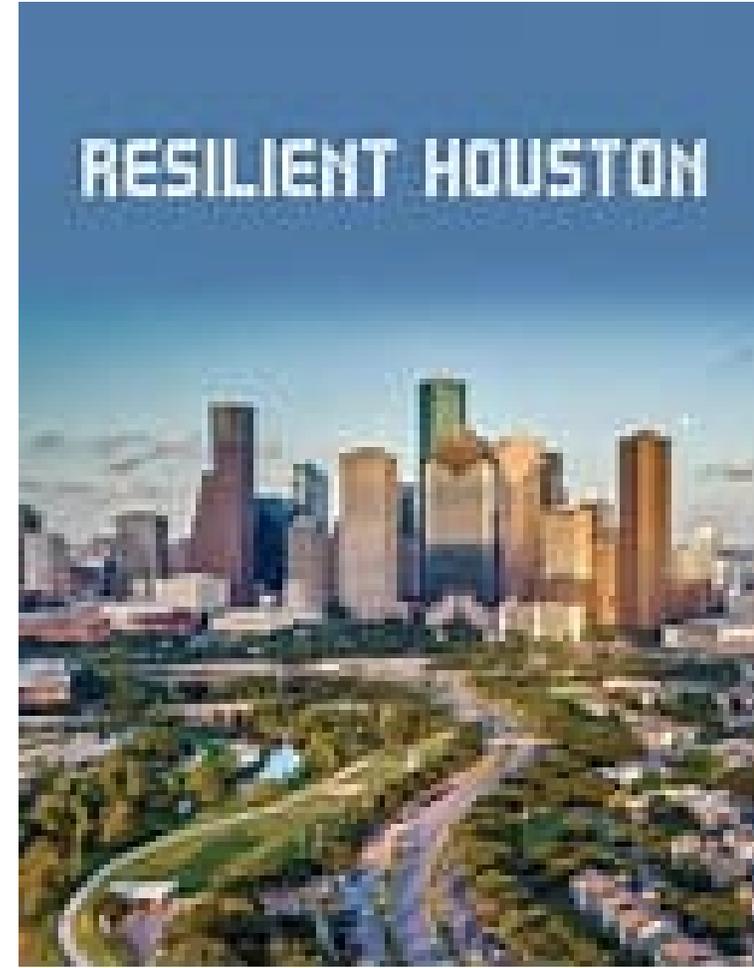
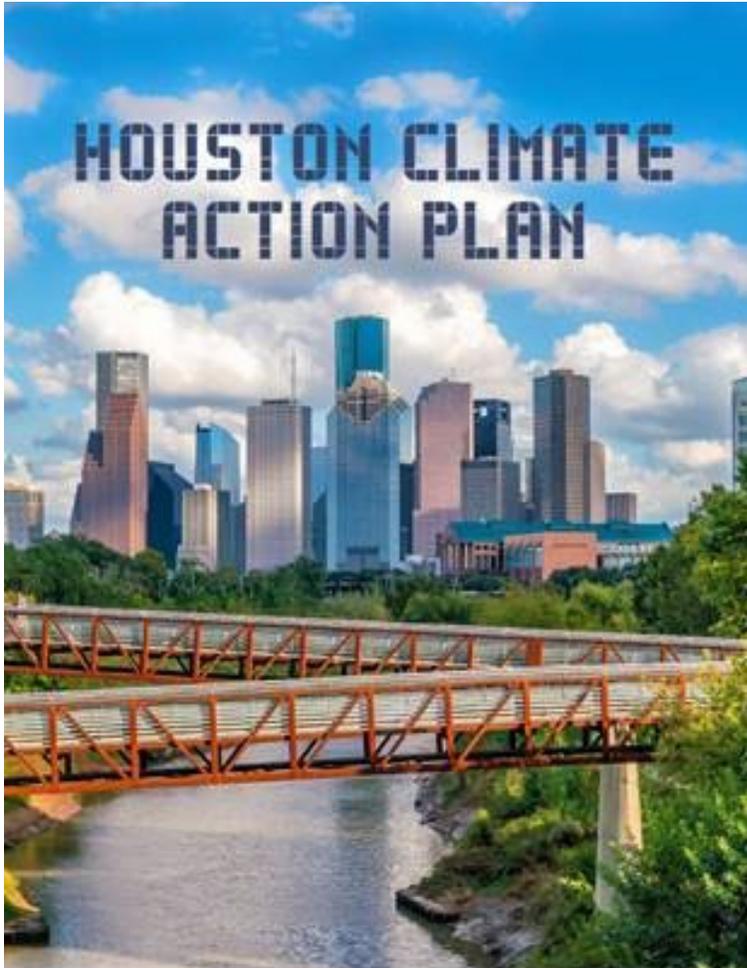
1972

2000



Rockport, Texas after Hurricane Harvey

CLIMATE CHANGE AND RESILIENCY BUILDING CODES MAKE A STRONG FOUNDATION

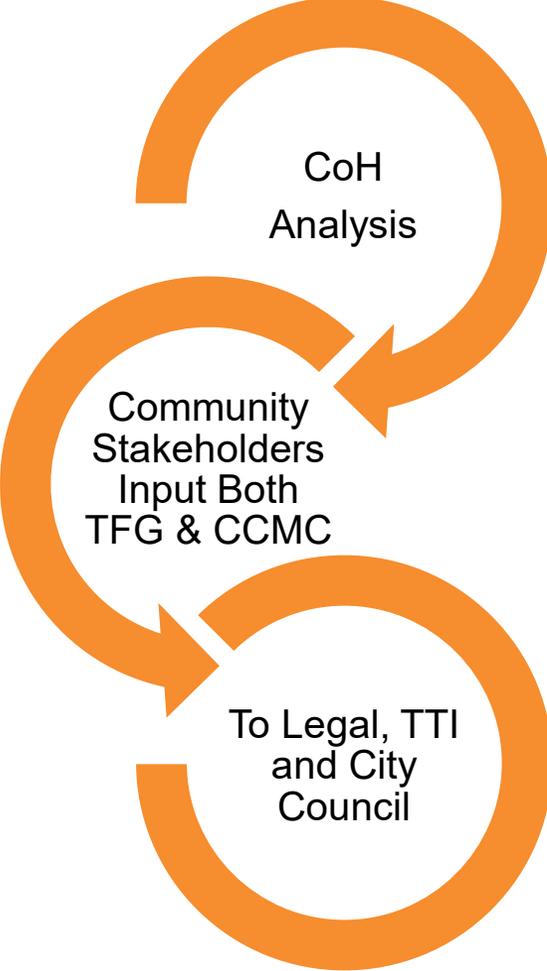


CCM PROJECT OVERVIEW

The Houston Public Works mandate for this code adoption is to adopt the 2021 Code Editions as a base code with local amendments that:

- ✓ Help strengthen and ensure long term sustainability and resiliency in Houston;
- ✓ Do not reduce the fire- or life-safety provisions without providing an equivalency to what's found in the base code; and
- ✓ Comply with the intent of the code in quality, strength, effectiveness, fire-resistance, durability, and safety for the purpose intended.
- ✓ Chapter One is for the Legal Department only. Amendments are excluded for submission.

CCM STRUCTURE AND PROCESS



COMMUNITY STAKEHOLDERS

- Air Alliance for Houston
- American Fire Sprinkler Association (AFSA)
- American Fire Systems (AFS)
- American Institute of Architects (AIA)
- American Society of Civil Engineers (ASCE)
- American Society of Plumbing Engineers (ASPE)
- American Society of Sanitary Engineering (ASSE)
- ASHRAE
- Associated Builders & Contractors of Texas
- Associated General Contractors (AGC) - Houston
- Association of Chief Operating Engineers
- Audubon Houston
- Building Commissioning Association (BCxA)
- Building Officials Association of Texas (BOAT)
- Construction Industry Council-Houston Branch (HCIC)
- Construction Specifications Institute (CSI) Houston Chapter
- Greater Houston Builders Association (GHBA)
- Greater Houston Texas Restaurant Association (GHTRA)
- Greentown Labs
- Harris County Flood Control District
- Historic Buildings
- Historic Houston
- Hotel & Lodging Association of Greater Houston (H&LAGH)
- Houston Apartment Association (HAA)
- Houston Archeological and Historical Commission and AIA Historic Resource Committee
- Houston Building Owners & Managers Association (BOMA)
- Houston Business Roundtable (HBR)
- Houston Contractors Association (HCC)
- Houston Galveston Area Council (HGAC)
- Houston Gulf Coast Building & Construction Trades Association (HGCBCTA)
- Houston Habitat
- Houston Housing Collaborative (HHC)
- Independent Electrical Contractor (IEC)
- Institute of Real Estate Management (IREM)
- International Association of Plumbing & Mechanical Officials (IAPMO)
- International Code Council (ICC)
- Mechanical Contractors Association of Houston (MCAA)
- NAIOP, the Commercial Real Estate Development Association
- National Association of Manufacturers (NAM)
- National Electrical Contractors Association (NECA)
- National Fire Sprinkler Association (NFSA)
- National Systems Contractors Association (NSCA)
- New Hope Housing
- Sierra Club
- Society of Fire Protection Engineers (SFPE)
- South Central Partnership for Energy Efficiency as a Resource (SPEER)
- Super Neighborhood Representatives
- Texas Community Watershed Partners
- Texas Institute of Building Design (TIBD)
- Texas Society of Architects
- Texas Water Quality Association (TWQA)
- University of Houston (UH)
- Urban Land Institute (ULI)
- US Green Building Council (USGBC) of Houston (USGBC)
- Water Quality Association (WQA)

SUPPORT IN PEOPLE & HOURS

TFG-1 Commercial

12 Community
Participants

28 City Staff

720 Hours

TFG-2 Residential

7 Community
Participants

26 City Staff

426 Hours

TFG-3 Energy Conservation

6 Community
Participants

13 City Staff

166 Hours

TFG-4 MEP

17 Community
Participants

20 City Staff

70 Hours

CODE ANALYSIS PREPARATION

TFG-1 Commercial	TFG-2 Residential	TFG-3 Energy Conservation	TFG-4 MEP
Consultant	Consultant	Consultant	Consultant
10 City Staff	7 City Staff	5 City Staff	10 City Staff
2475 Hours	630 Hours	608 Hours	1238 Hours

30-DAY PUBLIC COMMENT PERIODS

TFG-1
Commercial

108
TOTAL
DAYS

11.14.22 – 12.13.22
Extended to 12.31.22
Extended to 01.13.23
02.13.23 – 03.14.23
04.03 – 05.02.23

TFG-2
Residential

93
TOTAL
DAYS

12.14.22 – 01.12.23
Extended to 01.20.23
Extended to 01.27.23
Extended to 02.14.23
04.03 – 05.02.23

TFG-3
Energy
Conservation

70
Total
Days

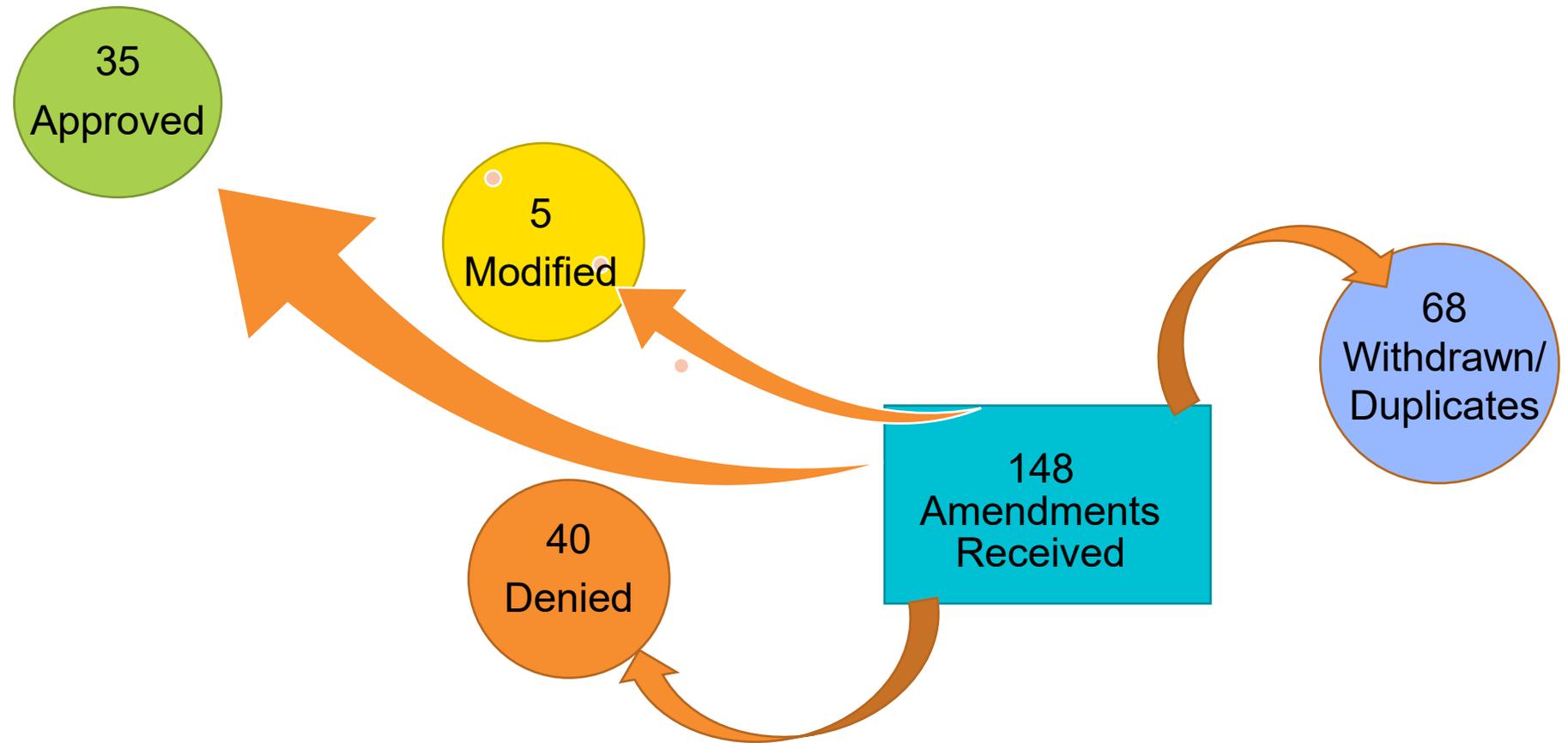
01.03.23 – 02.07.23
Extended to 02.17.23
04.03 – 05.02.23

TFG-4
MEP

67
Total
Days

03.13.23 – 04.19.23
05.01.23 – 05.30.23

AMENDMENTS PROCESSED TO DATE



NEW VOTING PROCESS

- 1. One vote will be accepted per organization.**
- 2. The primary CCMC representative or their designated alternate can vote.**
- 3. For those with us today, the primary representative or the alternate will receive a ballot upon signing in.**
- 4. We will also have a process for the online attendees.**
- 5. Both the in person and online process will be described in detail by Todd Oliver, who is facilitating today's amendment poll.**
- 6. Voting for the Houston Amendments included in this ballot will be accepted only during this meeting. Ballots will not be accepted before or after the CCMC #4 meeting.**

thank you!



houstonpermittingcenter.org



@cohpermits