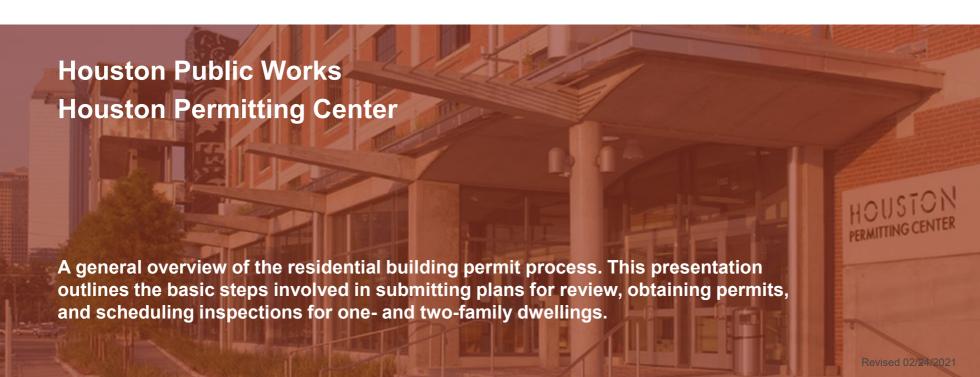
CITY OF HOUSTON

RESIDENTIAL PERMITTING 101



Topics Covered In This Presentation

- Project Planning
- Design Requirements
- Building Permit Exemptions
- Licensing & Registration
- Application Process
- Required Reviews by Project Type
- Plan Submittal
- Planning Requirements
- Utility Analysis

- Flood Plain Management
- Traffic
- Storm Water
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- Basic Code Requirements
- Other Services & Options
- Resources & Other Information
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Project Planning

Consider the following when planning the project. These items can save time and money.

- ☐ Make sure you can financially and legally build your proposed project
- Legal Deed restrictions and property liens
- Survey and property lines (Ensure that your structure can be built in the proposed location)
- Utility availability (Assess if water, storm and sanitary capacity and utilities are available or if additional fees may be required)
- Platting (May be required if there is a change in use on the property)
- Verify Setback requirements
- ☐ Floodplain (Refer to Chapter 19 of the Code of Ordinances)



Design Requirements

Defining the Scope of Work

- New Construction Ground up construction, Foundation Move-In
- Addition Square footage added
- Remodel Alteration of the existing building
- Repair Replacement of materials; "like for like"

Applicable Codes

- 2012 International Residential Code Amendments
- 2015 International Energy Conservation Code- <u>Amendments</u>
- 2020 National Electrical Code
- Various Code of Ordinance Chapters

Plans Required

 A set of plans is typically required for review. For detailed requirements please see "Plan Submittal".



Building Permit Exemptions

If your project consists of only the following, you do **NOT** need a building permit.

- Painting, papering, tiling, carpeting, flooring, cabinets*, countertops and similar finish work. (*While cabinets do not require a permit, replacement of plumbing or electrical fixtures will require permitting.)
- Interior trim & similar work
- Wood or metal fences up to 8 feet tall
- Siding that does not exceed 128 square feet
- Decks not exceeding 200 square feet in area, that are not more than 30 inches above grade at any point, are not attached to a dwelling and do not serve the exit door required by Section R311.4
- Storage sheds 200 square feet or less
- Repair of exterior wood fascia, trim & soffits
- Roof covering that does not exceed 100 sq. feet

Important Notes:

- Exemption from permit requirements shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of the code or any other laws or ordinances of this jurisdiction.
- Properties located in the floodplain may need a floodplain development permit even if a building permit is not required. To obtain more information, please contact the Floodplain Management Office at 832-394-8854 or fmo@houstontx.gov



Licensing & Registration

Who can purchase what permits and when?

- The building permit may be purchased by the owner, agent, contractor. General Contractors are not required to be licensed.
- ◆ Licensed contractors can purchase trade permits after the building permit has been sold. In some cases, a homeowner may purchase certain trade permits. For more information please contact us at 832-394-9494.
 - Electrical Mechanical Plumbing Sprinklers Fire Alarms Sidewalk/Driveway

Electrical

Master Electrician must be licensed by the <u>Texas Department of Licensing and Regulation</u> (TDLR) and be registered with the City of Houston.

Mechanical

Air Conditioning Contractor must have a type A or B license from the <u>Texas Department of Licensing</u> and <u>Regulation</u> and be registered with the City of Houston. In some instances, a homeowner may obtain this permit.

Plumbing

Master Plumber must be licensed by the <u>Texas State Board of Plumbing Examiners</u> and be registered with the City of Houston. In some instances, a homeowner may obtain this permit.

Sidewalk/Driveway

Only a bonded contractor with a \$2,000 surety bond may pull this permit, although the homeowner may purchase permits in instances where a curb cut is not required.



Application Process

- **Electronic Building Permit Application.** Applicants must complete the building permit application electronically using <u>iPermits</u>. For submittal instructions, visit https://www.houstonpermittingcenter.org/our-services/eservices.
- Declaration In Support of Application For City of Houston Building Permit (Individual Owner or Corporate/Other Business Entity Owners) – Verify if the property has Deed Restrictions and whether this project would be in violation. For more information click here or contact the Harris County Clerk's office at 713-755-6405.
- Addresses are critical and must be verified at the Building Code Enforcement Office for new construction. When completing the application online, there will be an address validation request button that will need to be selected prior to finalizing the application.
- Plan Review Fee. Most projects require the payment of a plan review fee which is 25% of total permit fee.
- A Project Number will be automatically generated by iPermits.



Required Reviews by Project Type

The following chart indicates the various department reviews required depending on the scope of work.

Project Type	Planning	Taps & Meters ¹	One Stop ²	Flood ³	Traffic	Storm ⁴
New construction	√	✓		√	✓	✓
Addition	√	✓	✓	✓		✓
Remodel			✓	✓		
Garage/Carport (new)	√	✓	✓	✓		✓
Repair			✓	✓		
Fence	✓		✓	✓		
Driveway/Sidewalk(new)	✓		✓	√	√	✓
Driveway/Sidewalk (existing)			√	✓	✓	√

Footnotes

- ¹ When the aggregate square footage of all structures on the property is over 3,000 square feet.
- ² Plans must be reviewable in 30 minutes or less to qualify
- ³ Flood applicable if project is in a flood plain
- 4 Storm review required if the residential lot is > 15,000 sq. ft. or if lot $\le 15,000$ sq. ft. with more than 65% impervious area



Plan Submittal

The Plan Review Department is responsible for ensuring that plans comply with all applicable building codes. All new construction projects, most renovations, repairs, or addition projects require plan approval before purchasing a permit. The following depicts the minimum plan submittal requirements for various scopes of work.

New Construction / Remodels / Additions / Garages & Carports

- ☐ A set of complete plans All dimensions and materials clearly indicated
 - Survey by Texas Registered surveyor or a complete site plan with dimensions showing: Existing property lines, Easements, Building Setback Line and Proposed Building
 - Foundation plans: needed if a project includes a foundation. Dimensions shall include beams and steel bars with foundation conditions noted on plans.
 - Floor plans. For additions indicate footprint of existing building and show in detail new addition/affected area with location of partitions, windows and doors.
 - Elevation plans
 - Door and window schedule shown on plans
 - Wall section details
 - Roofing and framing plan indicating purlins, ceiling joist and rafters
 - Trusses (when applicable)
- Plans must show prescriptive compliance with the 2015 International Energy Conservation Code or include ResCheck or IC3 Compliance Report (if applicable)
- Residential Prerequisite Checklist (Form 1301) Note: For new construction only
- ☐ Grading and Fill Worksheet (Form CE-1094)
- ☐ <u>Calculation of Impervious Percentage Form</u> (Form CE-1207)
- Windstrapping information (indicated for 110 mph wind load)



Plan Submittal (continued)

Remodels

A set of plans which include:

- Floor plan of existing building and show in detail affected area
- Materials used
- Wall section details to determine bearing and non-load bearing walls
- □ Plans must show prescriptive compliance with the 2015 International Energy Conservation Code or include ResCheck or IC3 Compliance Report.
- □ Demolition of any load bearing walls will need additional requirements to determine direction of ceiling joists, and the location of header and beam

Repairs

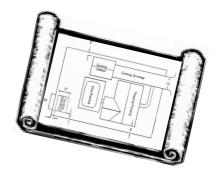
Permits are required for repairs that involve only replacement of existing structural members and other building elements. A **Repair Spec list** must be submitted indicating the following:

- □ Replace siding/doors/windows / trim / stairs / porch / fireplace
- □ Replace roof covering / ceiling / wall covering / insulation
- Re-frame walls and /or ceiling

Planning Requirements

The Planning & Development Department reviews development site plans, (new construction and additions) for compliance with the City Code of Ordinances (Chapter 42), parking regulations (Chapter 26), tree and shrub regulations (Chapter 33); determine property use and setbacks (Chapter 42).

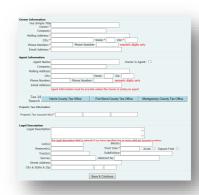
- Site plan
 - Drawn to scale
 - Show building setback lines
 - Show all existing and proposed structures
- Survey (one copy)
- Landscape analysis form
- \square Trees (1 required on lots < 5000 sq. ft. and 2 on lots > 5000 sq. ft.)
- Protected trees
- Recorded subdivision plat (one copy)



Utility Analysis

The Utility Analysis (Water/Waste Water) group is responsible for managing wastewater flows through wastewater capacity reservations (WCR), managing water demands through water/storm drainage commitment letters, review process which provides information on water, wastewater and storm drainage requirements for new development or for existing development that will require additional water and/or wastewater capacity.

- ☐ Impact fee receipt (or exemption form)
- Waste Water Capacity Reservation Letter ¹ (WCR)
- Point of connection
- For Impact Fee / WCR Credit
 - Demolition project number or
 - Previous water account or
 - HCAD tax statement



¹ Applicable for: a.) New development or for existing development that will require additional water and/or wastewater capacity, b.) If the main water line is ≤ 6 " or ≥ 20 " and c.) If the sewer line is ≤ 8 ".



Flood Plain Management

The Flood Plain Section manages all development in the flood plain by reviewing plans, monitoring and inspecting construction activities as required by the Code of Ordinances. An archive of historic Flood Insurance Rate Map (FIRM) panels that are no longer "effective" as determined by FEMA are maintained by this office.

- ☐ **Elevation Certificates** (must be signed & sealed)
 - When plans are submitted
 - Prior to Framing Inspection
 - Prior to Final Inspection
- Mitigation Plan
- Site Topography Survey
- Finish floor elevations of all slabs
- Cut and fill areas (must be shaded)
- Appliances (mechanical, electrical & plumbing) must be 2 foot above the 500-year BFE (Base Flood Elevation)
- Water resistant material (for areas below the DFE)
- Flood vents (for areas below the BFE)

Note: No permit shall be issued for development in the floodway except as stipulated in the City of Houston Ordinance Chap. 19-43 sec (b) & (c).



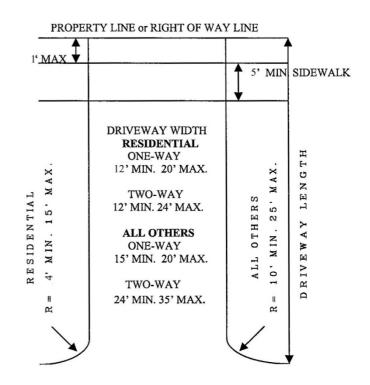
Traffic

The Traffic Department reviews plans for driveways, sidewalks, and culvert parking lots, issues permits for private street paving work, and addresses right-of-way issues.

Driveways, Sidewalks & Culverts

- Plans or drawings drawn to scale are required and must show:
 - Existing and proposed driveways
 - Location of driveway to nearest neighbor common property line
 - Widths of Sidewalks, Ditches, Culverts
 - Existing trees, storm inlets and location of edge of pavement
 - Center line of ditch & radii or taper of the driveway
- □ Requires \$2,000 bonded contractor

Note: Minimum culvert size is 24" RCP (reinforced concrete pipe) X width of driveway



Storm Water

The Storm Water review ensures that site drainage complies with all mandated policies directing runoff to the city right-of-way and may not overflow to an adjacent property.

Minimum Requirements For Residential Drainage

- Detailed site drainage plan
- Single family residences on lots 15,000 sq. ft. or more or over 65% impervious cover require a Storm Water Information Form.
- Some sites require Detention/Storage plans by a Professional Engineer per the Letter of Storm Availability.



Required Inspections

Once the appropriate permit is purchased, work may begin. Approved plans and permits must be on the job site for inspections. Be sure to schedule an inspection after the permit has been purchased and the work completed. Inspections may be scheduled <u>online</u> or by calling the Interactive Voice Response (IVR) System at 713-222-9922.

Electrical Inspections

- ☐ Ditch Cover Schedule when underground conduit is put in
- Rough-in Schedule when walls and ceiling are wired
- TCI Schedule when temporary power is needed to check wiring
- Meter Loop Services/Final Schedule after all work is completed



Plumbing Inspections

- ☐ Ground, Sewer, Water Service, Storm Drainage, Lawn Sprinklers Schedule before pipes are covered
- Rough-in Schedule before sheetrock is installed
- Gas/Final Schedule when work is complete

Required Inspections (continued)

Mechanical Inspections

- Duct Seal Schedule before insulation and sheetrock is installed
- Cover Schedule before insulation and sheetrock is installed
- Grille Seal Schedule before insulation and sheetrock is installed
- ☐ Final Schedule after work is complete



Structural Inspections

- Pier / Foundation Schedule before placement of concrete
- Windstorm Schedule prior to exterior sheathing installation to verify fasteners/straps
- Frame Schedule after MEP rough-ins and prior to installing insulation and sheetrock.
 Note: Truss plans should be approved at this time.
- ☐ Lath/Brick Tie Schedule after frame inspection has been approved
- Insulation Schedule after frame inspection has been approved
- Building Final Schedule after the entire project has been completed to verify that all life safety and grading items have been installed and are working properly



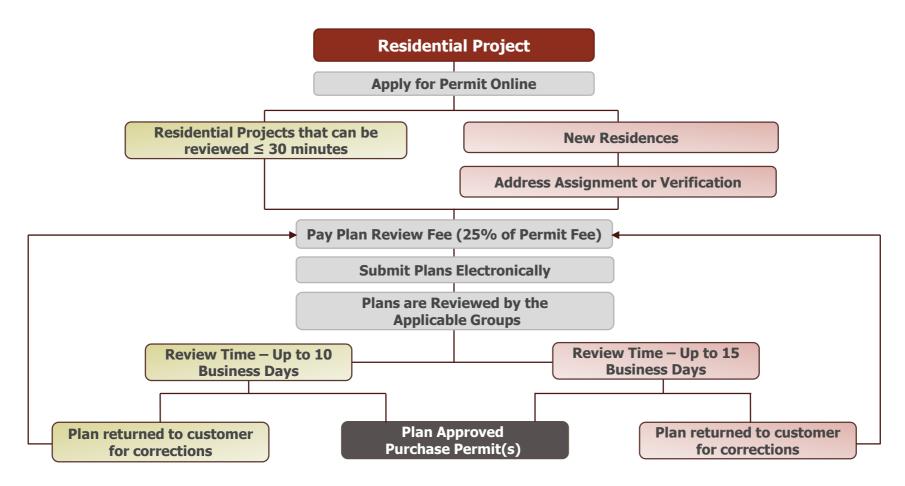
Basic Code Requirements

Some of the basic code requirements that are reviewed upon submittal are as follows.

- □ Location on property 3' away typical unless fire rated construction
- 1 entry door, minimum size 3'0 wide and 6'8" tall
- Egress windows required out of bedrooms
- □ Stairs Tread max. 7 ¾ inch rise and 10" min. depth; Headroom 6' 8" min. typical
- Smoke Detectors Required in each bedroom and hallways near bedrooms; interconnection required
- □ Sidewalks required on Major Thoroughfares, Inside 610 Loop, and lots over 125' street frontage
- Handrails between 34 -38"
- ☐ Guardrails 36" in height minimum and 4" openings max
- Lighting, ventilation, and heating are required
- Sanitation facilities are required
- Windows/Insulation/Equipment efficiencies must meet Energy Code Requirements

For more information please see the **Single Family Residential Checklist – 2012 IRC** or call 832-394-8820.

Plan Review Process



Note: If your project requires a Waste Water Capacity Reservation Letter, it must be applied for separately preferably before submitting your plans.



Other Services & Options

Multi-Discipline Inspection Program (MDI) is a voluntary program for new one- or two-family residential home builders/remodelers administere TEMPORTIAL Inspections. The objective is to reduce the number of inspections by scheduling inspections Section at (832) 394-8840 for more information.

New Residence Model Home Program

- Designed for builders who build 10 or more units of the same repeat home over a 12-month period.
- For subsequent identical units built, plan reviews are performed in an expedited manner and permit fees are known in advance.
- Repeat homes require submittal of a <u>Grading and Fill Worksheet (CE-1094)</u>, site plan and landscape form.



Resources & Other Information

- Building Permit Fees: https://www.houstonpermittingcenter.org/help/fee-schedules
- Water & Sewer Rates: https://www.houstonpermittingcenter.org/infrastructure-development-services
- City of Houston Comprehensive Drainage Plan: www.swmp.org/swprojects/cdp.htm
- **Open Records:** The Open Records Section provides permit records and residential plans beginning in 1988 to the present.
 - Register and submit your request at <u>https://houstontx.govqa.us/WEBAPP/ rs/(S(x14z2kpr2bi4qf1133vkwa4v))/SupportHome.aspx</u>
 - Lost Plans may be requested with an original letter of consent from the Architect and/or Engineer(s) on the plans, before the plans will be released.
- Tax Increment Redevelopment Zone (TIRZ): TIRZs are special districts created by City Council to attract new investments to an area. TIRZs help finance the cost of redeveloping or encouraging infill development in an area that would otherwise not attract sufficient market development in a timely manner. Taxes attributable to new improvements (tax increment) are set-aside in a fund to finance public improvements in the zone.

Historic Designation

- As a designated City of Houston historic building, your property will be exempt from compliance with Energy Code requirements in the Building Code.
- You are eligible for a 50% discount on building permit fees if the Houston Archeological and Historical Commission (HAHC) issued a Certificate Of Appropriateness (COA) for the approved work.
- Historical Preservation Ordinance regulates exterior alteration, new construction, relocation or demolition of any historic structure, object or site.



Resources & Other Information

Searching for Issued Building Permits

The City of Houston Building Code Enforcement (BCE) Group has a tool available online that allows users to search for permits sold by BCE in the last three years using different search criteria, such as: job address, applicant name, permit type, zip code, building use.

To access the Sold Permit Search tool, visit http://www.cohtora.houstontx.gov/approot/soldpermits/online_permit.htm

Permit e-Report

Customers can subscribe to receive the Permit e-Report. The report provides information regarding any new construction, remodeling, or change-of-use permits by zip-code and is emailed every Monday.

To sign up to receive the Permit e-Report, please visit: https://www.houstonpermittingcenter.org/news-events

Reporting Unpermitted Work

An anonymous complaint can be submitted to the City of Houston 311 Help & Information Section for work without a permit. A tracking number will be assigned and can be used to follow up with their office regarding the concern.

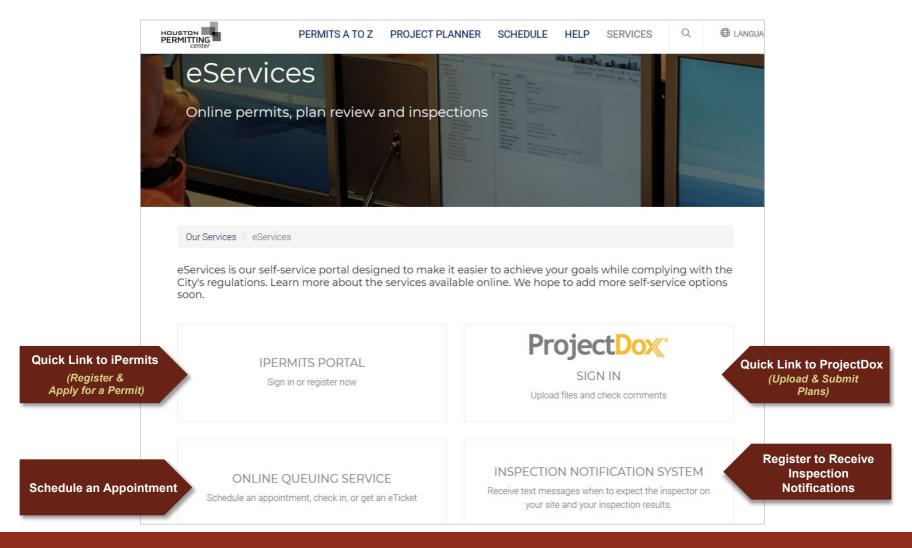
An investigator will conduct a site visit and inform the responsible party of the required actions and time frame.

The complaint can be submitted via phone by contacting the City of Houston 311 Help & Information Section at 713.837.0311 or online at: http://hfdapp.houstontx.gov/311/index.php



eServices Webpage

https://www.houstonpermittingcenter.org/our-services/eservices





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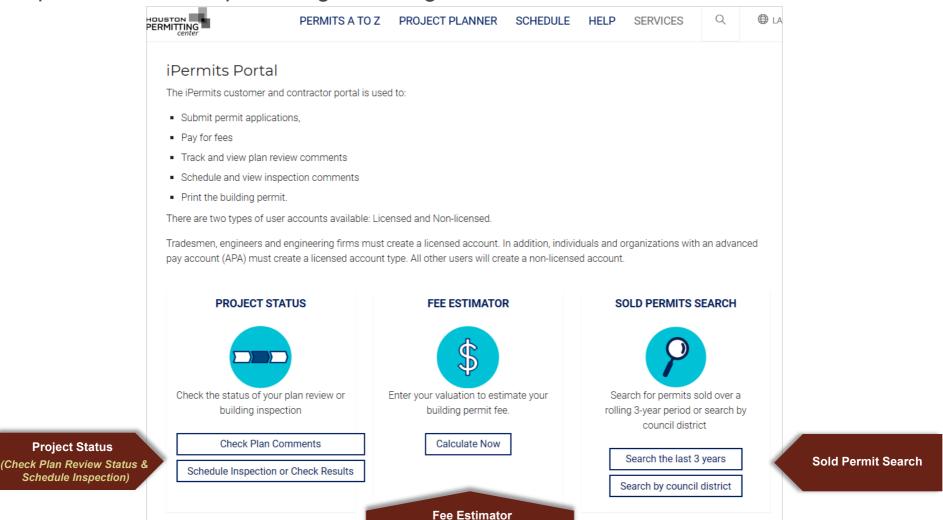
Electronic Plan Review The City of Houston is paper free! Applying and submitting plans online is now required for: Residential building construction projects Sign projects Electronic locks projects · Residential solar panel projects Commercial building construction projects Office of the City Engineer projects We offer hands-on workshops, in-depth user guides, live chat, and a support team ready to help you with any issues. RESIDENTIAL GUIDES COMMERCIAL GUIDES OCE GUIDE User guides for commercial projects User guide for Office of the City User guides for residential projects Engineer projects Residential Guide Commercial Guide OCE Guide Solar Panel Only Guide Electronic locks Guide Sian Guide **Electronic Plan Review User Guides** (Step-by-Step guide for Electronic Submittals)



eServices Webpage

Project Status

https://www.houstonpermittingcenter.org/our-services/eservices





Contact Us Or Visit Us Online

 General Information 832-394-9494 rmcacd@houstontx.gov



- One Stop Plan Review
 832-394-8820
 OneStop.PlanReview@houstontx.gov
- Planning 832-394-9091 pd.siteplanreview@houstontx.gov
- Taps and Meters 832-394-8888 taptechs@houstontx.gov
- To Schedule Inspections via IVR 713-222-9922
- Open Records832-394-8800HPC.OpenRecords@houstontx.gov

- Building Code Enforcement: <u>www.houstonpermittingcenter.org/building-code-</u> enforcement.html
- Permits/Inspections/Plan Review https://www.houstonpermittingcenter.org/ourservices/eservices
- Planning & Development www.houstontx.gov/planning
- Houston Fire Department www.houstontx.gov/fire
- General Information www.houstontx.gov/311
- Flood Maps www.tsarp.org
- Houston Public Works Main Webpage www.publicworks.houstontx.gov/home
- City of Houston Main Webpage www.houstontx.gov







This presentation can be found online at www.houstonpermittingcenter.org/resources