

CH. 19 GUIDELINES

HOUSTON PUBLIC WORKS MAY 2018

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Companion to Floodplain Ordinance to Establish Operational Procedures

GUIDELINES HIGHLIGHTS New Permit Procedures

Temporary Repair Permit For Substantially Damaged Structures

- Repair immediately
- Allow Up to 2 Years to Bring Into Compliance
- Provides options to impacted property owners
- Per recent FEMA guidance

Expedited Review | Zero Fee Permit For Small Scope Projects

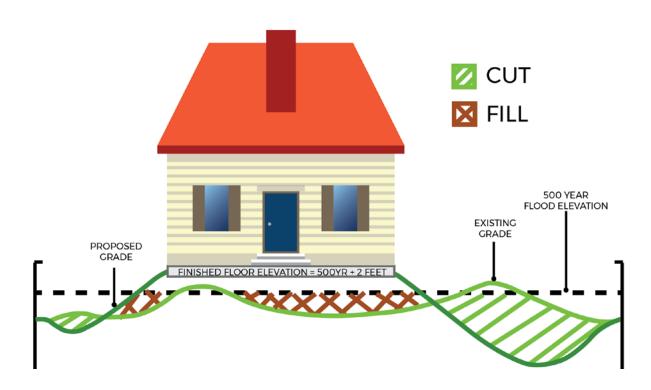
- Remodel or repair
- No sitework, additions or conversion to living space
- Residential less than \$10k
- Commercial less than 10% floor area

ZERO NET FILL Mitigation Plan

Mitigation Plan

- Prepared by Texas Professional Engineer
- Compares existing and proposed elevations on a development site
- FILL = material is added to area of site below the 500-year flood elevation either from on site or off site
- CUT = material is removed from area of site below the 500-year flood elevation
- ZERO NET FILL = fill does not exceed cut

ZERO NET FILL Cut Equals or Exceeds Fill



GUIDELINES HIGHLIGHTS New Design Procedures

Simplified Mitigation Plan

Procedure for simplified cut and fill calculations for qualifying sites

Flood Opening Calculations

- Accept ICC-ESR in lieu of Engineer's certifications for Engineered Flood openings
- Provide standard flood opening calculation template

GUIDELINES HIGHLIGHTS New Design Procedures

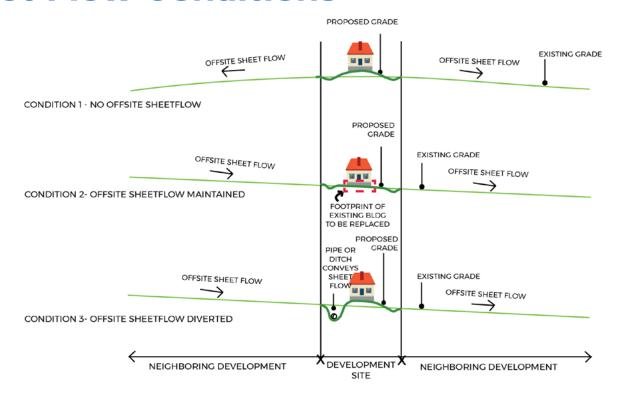
Options for Fill in 500 year floodplain

- Comply with zero net fill provision **OR**
- Complete Optional Sheet Flow Analysis
 - Engineering Analysis for exception to zero net fill in 500-year floodplain

GUIDELINES HIGHLIGHTS Sheet Flow Analysis

	Condition 1	Condition 2	Condition 3
Sheet Flow Analysis Result	No Existing Offsite Sheet Flow	Existing Offsite Sheet Flow Identified	Existing Offsite Sheet Flow Identified
Fill Requirement	Net Fill Permitted	Net fill permitted in Footprint of existing building to be replaced	Net Fill Permitted
Design Notes	Grading per building code	No other grading changes permitted	Design ditch or pipe to divert offsite sheet flow to appropriate outfall per IDM

GUIDELINES HIGHLIGHTS Sheet Flow Conditions



GUIDELINES HIGHLIGHTS Enforcement

Non-Compliance Certificate

Filed in deed records for non-compliant properties including unresolved substantial damage or temporary repair permit

Compliance Certificate

Filed in deed records reversing non-compliance certificate

Non-Conversion Agreement

Filed in deed records Prohibiting the conversion of areas below minimum flood protection elevation to living space and requiring that floodplain standards be maintained (no certificate of occupancy for residential)

Section 1316

City Engineer can recommend that FEMA deny NFIP flood insurance to violators of provisions of Chapter 19

Recertification of Mitigation Facilities

Property owners are required to submit annual recertification packages for their Mitigation Facility.

CLARIFICATIONS

Revisions to guidelines include clarifications outside of ordinance changes

HOW IS SUBSTANTIAL DAMAGE DETERMINED?*

Cost to repair damage | \(\begin{align*} \begin{al

Only Applies in the 100-year floodplain

City determines proactively using FEMA or FMO data

City determines reactively based on permitting activity and property owner request

^{*}Not an ordinance change, but procedures are expanded from previous guidelines.

GUIDELINES HIGHLIGHTS Substantial Damage - Only Applies in 100-year

Substantial Damage Procedures

Substantial Damage Determination Request

Form for property owner requests

Substantial Damage Determination Appeal

Form and procedure for Appeals

Increased Cost of Compliance Letter Request

Form for property owner requests

GUIDELINES HIGHLIGHTS Documenting City Engineer's Duties

Preliminary Damage Assessment

Assist OEM and DON in assessing flood damage after a flood event

Community Rating System (CRS)

Manage program and make annual submittals

Plan for Public Information (PPI)

Implement plan, make annual updates and develop new plan every 5 years

Floodplain Management Plan (FMP)

Implement plan, make annual updates and develop new plan every 5 years

AW-501 Updates / Community Letter Requests

Notify FEMA of mitigated properties to change Repetitive Loss or Preferred Risk Policy status for insurance purposes

SCHEDULE

Public comment period ends June 30th



DESIGN STANDARDS

DESIGN STANDARDS

WHAT: Draft Revisions Posted 60 Day Public Input Begins

WHERE: surveymonkey.com/r/HoustonDesignStandards

DESIGN STANDARDS & CHAPTER 19

WHAT: Super Neighborhood Meeting WHERE: City Hall Annex, 900 Bagby St.

WHAT: Final Report Issued WHO: Redevelopment & Drainage Task Force

DESIGN STANDARDS & CHAPTER 19

WHAT: Transportation, Technology & Infrastructure Committee WHERE: City Hall, 901 Bagby St.

FEB ---- APR

CHAPTER 19

WHAT: Ordinance Amended

WHO: City Council

MAY 29 -----

DESIGN STANDARDS & CHAPTER 19

JUN 12

WHAT: Open House

WHERE: Houston Permitting Center,

1002 Washington Ave.

JUN 11

CHAPTER 19

WHAT: Draft Guidelines Posted 30 Day Public Input Begins

WHERE: pwe.director@houstontx.gov



DESIGN STANDARDS

WHAT: 60 Day Public Input Closes

WHERE: surveymonkey.com/r/HoustonDesignStandards

DESIGN STANDARDS & CHAPTER 19

WHAT: Open House WHERE: TBD

DESIGN STANDARDS

WHAT: Open House

WHEN: TBD

DESIGN STANDARDS

WHAT: Council Action to Amend

Building Codes & Approve IDM Updates

WHERE: City Hall, 901 Bagby St.

JUN 29

JUL 16

JUL 30

SEPT 1

CHAPTER 19

WHAT: Public Input Posted

WHERE: HoustonRecovers.org/Chapter19

CHAPTER 19

WHAT: Final Guidelines Posted

WHERE: HoustonRecovers.org/Chapter19

CHAPTER 19

WHAT: Transportation, Technology &

Infrastructure Committee

WHERE: City Hall, 901 Bagby St.

CHAPTER 19

WHAT: 30 Day Public Input Closes
WHERE: pwe.director@houstontx.gov

CHAPTER 19

WHAT: Final Guidelines Posted + Go Into Effect WHERE: HoustonRecovers.org/Chapter19

QUESTIONS

www.houstonrecovers.org