

TFMA 2014 Higher Standards Survey
 (Freeboard = Finished Floor Elevation above BFE)

Local Survey Results Compiled as of: 11/20/2014

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Abernathy		1	City of Lubbock provides technical assistance			
Abilene		1	(1) Developer must conduct a study and determine BFE and floodway boundary in Zone A (2) In Zone X, new construction must be elevated a minimum of 18" above natural grade or crown of nearest street. (3) New development must provide detention. (4) Elevation Certificates are required when structure is completed and before CO.	LFA is a CFM	2	
Addison		2				
Alamo Heights	1	1	Residential requirement only - per Ordinance. City Council adopted Zone AE as floodway, and is not allowing development in floodway.	LFA is a CFM	1	
Allen	2	2	(1) Developer must conduct a study to define the BFE and floodway for both existing and fully developed conditions (2) If any portion of a development of a drainage course lies within 100 feet from the top of a high bank or is identified as located within the 100-yr floodplain on any FIRM, a detailed study of the area is required. (3) For drainage areas 160 acres and above, the developer is required to determine the 100-year floodplain based on a fully developed watershed and this floodplain cannot be disturbed and must be shown on the plat and the City has the option of accepting the area. (4) On-site detention is required (5) In Zone X new construction must be elevated a minimum of 2' or above the crown of the nearest street whichever is higher (6) EC required prior to framing, when construction is completed and prior to CO.	LFA is a CFM	4	
Alvarado		0	(1) Developer must conduct a study and determine BFE and floodway boundary in Zone A (2) Elevation Certificates are required when structure is completed and before CO.(5) 1 CFM on staff	LFA is a CFM	1	
Alvin		0				

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Amarillo	1	1	(1) New construction must be elevated +1' above BFE. (2) Developer must submit a study, based on both existing and fully developed conditions, showing BFE and floodway in Zone A. (3) Developer must balance fill with excavation producing no change in BFE in floodway (4) Detention is only required when there is no other alternative (5) New construction in Zone X (shaded and unshaded) must be elevated +1.5' above the flowline of the nearest street. (6) EC required prior to forming and pouring lowest floor; after construction; and prior to CO for all structures.	LFA is a CFM	4	
Aransas County		1.5	Aransas County requires new construction to be elevated in the SFHA - 18" for new structures and 6" for accessory buildings.	LFA is a CFM	1	
Arlington	more than 3'	2	(1) Developer must conduct a study and determine fully developed floodplain, floodway and BFE in Zone A (2) 1:1 Compensatory storage required for ant SFHA development (3) no increase in flood heights and no more than 5% increase in velocity on adjacent properties. If there is an increase, discharges must be detained on-site until requirement is achieved (4) Developer must mitigate downstream impacts of development (5) Elevation Certificate required when structure is completed and prior to CO (6) Arlington enforces 25% damage as substantially damaged (7) Arlington is CRS 7 (8) Six (6) CFM's on staff		6	7
Athens		3	EC is required when construction is completed			

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Austin	1, 2	*See Notes	(1) City Code precludes development within the fully developed land-use condition 100-year floodplain. Conditional exceptions include: 1) Within Central Business District, 2 feet above fully developed BFE, and 2) Minimum freeboard of 1 foot above fully developed BFE in all other areas. (2) All development must demonstrate no adverse flooding impact; mitigation typically achieved by on-site or regional detention ponds. (3) City uses fully developed watershed condition floodplain for regulating all subdivision platting and building construction. (4) City adopted the IBC and the IRC (except Plumbing) with reference to ASCE 24. (5) City requires cumulative building addition and improvements (substantial improvements) for 10 years. (6) Ec's required prior to pouring lowest floor, when construction is completed and prior to CO. (7) Austin is CRS 6.	LFA is a CFM	30	6
Bailey's Prairie	1	1	(1) Developer must submit a study defining both the BFE and floodway based on fully developed conditions.(2) EC required prior to forming/pouring lowest floor and when structure is completed.	LFA is a CFM	1	
Balch Springs		No Adverse Impact	In a nutshell, "No Adverse Impact" means you cannot build in the floodplain (contact Balch Springs city engineer for more info)			
Ballenger		0	Elevation Certificate required before CO			
Bandera County		0	(1) Developer must submit a study defining both the BFE and floodway.(2) EC required prior to forming or pouring the lowest floor (3) One CFM on staff	LFA is a CFM	1	
Bartonville		1	(1) Developer must submit a study defining both the BFE and floodway.(2) Developer must prove no adverse impact to adjacent properties (3) EC required when structure is completed and prior to CO.	LFA is a CFM	1	
Bastrop		2	Developer must conduct a drainage study and provide detention when required. Development must demonstrate no adverse impact on adjacent properties.			

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Bastrop County		2	(1) Developer must conduct a study and determine BFE and Floodway in Zone A; (2) On-site compensatory storage required. (3) County enforces "cumulative damage over the life of the structure" threshold for substantial damage. (4) Elevation Certificates are required prior to framing; after construction; and before CO. (5) One acre minimum lot size with buildable area outside SFHA (6) Floodplain must be preserved as open space, drainage easement or other defined area that limits impact (7) Drainage study required to define detention needed to prevent adverse impact and mitigate downstream impacts (8) Bastrop County is CRS Class 8. (9) LFA is a CFM	Certificates of non-compliance to be filed with County Clerk. Inspections reports from PE/AIA are required during construction. Any home w/in 150' of a watercourse must be +2' above NG. New Subdivisions must have BM's and include dedicated 10'setback (easement)from SFHA	1	8
Bay City		1	(1) Both residential and non residential structures must be elevated a minimum of 12 inches above BFE. (2) Manufactured homes can only be placed in existing manufactured home parks or subdivisions (3) City has FEMA approved all hazards and Flood Mitigation Plans	LFA is a CFM	1	
Baytown	1.5	*see notes	(1) New construction must be elevated a minimum of 1.5' above BFE. (2) Detention is required. (3) In Zone X, new construction must be elevated a minimum of 1.5 feet above natural grade or above crown of nearest street. (4) EC required prior to pouring lowest floor and before CO. (5) City is CRS Class 6.	LFA is a CFM	1	6
Beaumont	1.5	1.5	(1) Elevation Certificates required prior to pouring slab, after construction and before CO. (2) City is CRS 7. (3) City has 2 CFM's on staff.	LFA is a CFM	2	7
Bedford		2	Bedford has a FEMA approved all hazards Mitigation Plan			
Bellaire	1	*see notes	In Zone X, new construction must be elevated 1.0' above natural garde or crown of nearest street. EC required 1)before construction begins, 2)when construction is complete and 3) before CO. County-wide detention requirements by HCFCD. Bellaire is CRS Class 8	LFA is a CFM	1	8

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Benbrook	2		(1) In Zone AO, new structures must be +2 feet above depth number (i.e.in Zone AO 1' - new structure must be elevated to +3') (2) No development in floodway without No-Rise Certificate, (3) Detention is required using iSWM criteria with no increase of peak flow under the 2-year, 25-year and 100-year condition, (4) In Zone X new development must be elevated a minimum of 6" above natural grade or above the crown of the nearest street whichever is higher (5) If applicable, EC required at time of foundation forms and EC is always required when construction is completed, (6) New Critical Facilities (hospitals and fire stations) are prohibited within the 500-year floodplain, (7) Engineered fill and erosion/scour protection required for compacted fill beyond foundation, (8) Non residential in Zone AE must be elevated +2 above the BFE for floodproofed, (9) No new lots in SFHA without buildable area outside SFHA, (10) Park dedication requirement of floodplain where each acre of flowway fringe counts as 1/2 acre toward park requirement, (11) Floodway area accepted for park dedication but does not receive park dedication credit.(12) City has Stormwater Utility Fee (13) Benbrook is CRS Class 6	LFA is a CFM	5	6
Bevil Oaks	2	2	(1) Developer must conduct a study to determine the BFE and Floodway boundary in Zone A prior to permit (2) Onsite detention required (3) EC's required prior to forming/pouring lowest floor; when structure is completed: and prior to CO	LFA is a CFM	CRS 7; 2 CFMs on staff	2
Bexar County		1	(1) Developer must conduct a study to determine the BFE in Zone A prior to permit (2) NAI is required (no impact) outside of owners property (3) Platted property requirements include residences to be 8" above finish grade in all zones (4) Plat must show floodplain areas as drainage easements (5) County does not use floodway rules (6) EC is required when structure is completed		10	

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Brady	2	2	(1) Developer must conduct a study and determine BFE and floodway boundary in Zone A based on fully developed watershed; (2) New development must provide detention (3) In Zone X, new construction must be elevated a minimum of 24" above natural grade or crown of nearest street. (4) Elevation Certificates are required prior to forming/pouring lowest floor, when structure is completed and before CO.	LFA is a CFM	1	
Brazoria County	2	2	(1) In Zone A new development must be 2' above highest natural ground (2) Detention may be required (3) In Zone X recommendation of 2-ft above grade but no EC required. (3) Drainage plan required for all commercial projects, structures over 5,000 SF and in Zone X when fill exceeds 20 loads per acre (4) No rise certification required for floodway development. (5) 2 CFM's on staff	LFA is a CFM	2	
Brazos County	2	2	(1) Developer must conduct a study and determine BFE and floodway boundary in Zone A based on existing and fully developed conditions . (2) No fill is allowed in SFHA (NAI) (3) Detention is required (4) EC required before forming/pouring lowest floor, when the structure is completed and prior to CO. (5) Septic Permit cannot be issued without Floodplain Permit. (6) County has interlocal agreement for ETJ Permits and shares GIS and floodplain data with the cities of Bryan and College Station. 4 CFM's on staff.	LFA is a CFM	4	
Brenham		0	(1) Developer must conduct a study and determine BFE and floodway boundary in Zone A based on existing and fully developed conditions . (2) Detention is required (3) EC required before forming/pouring lowest floor, when the structure is completed and prior to CO.	LFA is a CFM	1	

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Brookside Village	2	2	(1) City enforces a true "no rise" floodway and no fill allowed in floodway regardless of engineering analysis. No-Rise certification must be signed, sealed and dated by a PE (2) Developer must conduct a study, based on fully developed conditions, to define BFE and floodway in Zone A (3) Detention is required in Zone AE (4) Permits are required for both Floodplain and Septic Tanks. (5) New construction in Zone X must be elevated 1' above natural grade or above the crown of the nearest street. (6) EC required prior to forming/pouring lowest floor and when construction is completed.	LFA is a CFM	1	
Brownsboro		3	EC required when construction is completed			
Brownwood		1	(1) New construction must be elevated BFE+1' (2) Study required to define BFE and floodway in Zone A before a permit will be issued. (3) Detention required to mitigate development. (4) Developer must mitigate downstream impacts of proposed development (5) New construction in Zone X (shaded and unshaded) must be elevated 1' +2% above natural grade or crown of nearest street. (6) EC required prior to framing/pouring lowest floor; after construction is completed and prior to CO.	LFA is a CFM	1	
Bryan	N/A	1	(1) Development in Zone X must be elevated 0.5' above top of curb or above crown of nearest street. (2) EC's required during construction with form board survey and prior to CO. (3) Manufactured homes must be elevated 2' above BFE (4) City adopted IBC (5) Stormwater detention is required to mitigate development impacts	LFA is a CFM	5	6
Buda	2	2	(1) Developer must submit a study establishing floodplain and floodway boundaries and BFE in Zone A (2) Detention is required to mitigate development, (3) Development in Zone X must be elevated a minimum of 2' above NG and above the crown of the nearest street (4) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO	LFA is a CFM	5	
Bulvedre		2		LFA is a CFM	1	
Burleson		1	Burleson is CRS 7	LFA is a CFM	1	7

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Burnet County	1	1	(1) Developer is required to conduct a study to define BFE and floodway in Zone A. (2) Detention is required (3) Development in Zone X must be elevated a minimum of 12" above NG. (4) EC is required prior to forming/pouring lowest floor; when structure is completed; and prior to CO.			9
Calhoun County		0	EC required when construction is completed	LFA is a CFM	1	
Canton	1	1	(1) Developer must submit a study establishing floodplain and floodway boundaries and BFE in Zone A (2) EC required before forming/pouring lowest floor; after construction and prior to CO.	LFA is a CFM	1	
Cameron County		2				
Canyon		1	(1) Developer must conduct a study in Zone A to establish BFE and Floodway (2) Fill placed in floodplain and floodway must be mitigated (3) Floodway setback required for new development (4) New development in Zone X must be elevated a minimum of 18 inches above top of curb.(4) EC is required when structure is completed and prior to CO.	LFA is a CFM	1	
Carmine	0	0	Member of TCRFC			
Carrollton	2	2	(1) Zero (0') rise in Floodway. (2) Developer must conduct a study and determine BFE in Zone A; (3) New development must provide detention. (4) Elevation Certificates are required before forming/pouring lowest floor. Carrollton is CRS Class 6	LFA is a CFM	2	6
Chico		2	EC is required when construction is completed			
Cedar Park		1	(1) In Zone A the Developer must conduct a study to define the BFE and to ensure conveyance of fully developed flows (2) Detention or mitigation required for fill placed in floodplain/floodway. (3) EC required when structure is completed and prior to CO (4) Engineering study required showing no adverse impacts to adjacent tracts. (5) City adopted City of Austin Drainage Criteria Manual requiring conveyance of fully-developed 1% storm in drainage easements when drainage areas is greater than 64 acres.	LFA is a CFM	3	
Celina		2	(1) Developer is required to conduct a study to define BFE and floodway in Zone A. (2) Detention is required	LFA is a CFM	1	
Clear Lake Shores		0				
Cleburne		1	Cleburne is CRS Class 8. Two (2) CFM's on staff.	LFA is a CFM	2	8

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Cleveland	1.5	1.5	(1) In Zone A Developer cost conduct a study to define BFE and Floodway before permit (2) Fill placed in floodplain/floodway must be mitigated. (3) New structures in Zone X must be elevated a minimum of 0.5' above natural grade or crown of nearest street.(4) EC required prior to forming/pouring lowest floor and when structure is completed and prior to CO.	LFA is a CFM	1	
Charlotte	0	0	(1) Developer is required to conduct a study to define BFE and floodway in Zone A. (2) Detention is required (3) EC is required prior to forming/pouring lowest floor; when structure is completed; and prior to CO.			
Cold Spring		0	(1) In Zone A the Developer must conduct a study to define the BFE and Floodway. EC required when structure is completed.	LFA is a CFM	1	
College Station	N/A	1	(1) Designated channel reaches have additional requirements of +2', +3' and +4' above BFE. (2) New construction in shallow flooding areas (Zone AH and AO) must be elevated +1' above depth number or BFE. (3) EC are required prior to forming/pouring lowest floor and Prior to issuing a CO. (4) Detention is required to mitigate the impact of development. College Station is CRS 7. City has five (5) CFM's on staff.	Brazos County, Bryan and College Station have standardize floodplain management requirements and drainage policy. LFA is a CFM	5	7
Colleyville		2	(1) EC required upon completion of construction, (2) Fine is \$2,000/day for non compliance			
Collin County	2	2	(1) City requires mitigation of all fill placed in floodplain and floodway (2) Detention is required (4) EC required prior to forming/pouring lowest floor	LFA is a CFM	2	
Collingsville		2	(1) EC required upon completion of construction, (2) Fine is \$2,000/day for non compliance			
Colorado County	1	1	In Zone A the Developer must conduct a study to define the BFE and Floodway. Detention or mitigation required for fill placed in floodplain/floodway. EC required when structure is completed.	LFA is a CFM	1	

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Comal County	0.01	0.01	(1) No development is allowed in platted Zone A areas. (2) Developer must conduct a study showing NAI resulting from the proposed development (3) Detention is required (4) Developers must designate Zone A areas on Plats and designate Zone A areas as building set back areas (5) EC required prior to forming/pouring lowest floor and when construction is completed	LFA is a CFM	1	
Conroe	1	1	(1) Developer must conduct a study to establish BFE and floodway boundary (2) City requires mitigation of all fill placed in floodplain and floodway (3) Manufactured homes may not be placed in the 100-year floodplain (4) No rise certification required for floodway development (5) Detention is required (6) New construction in Zone X must be elevated a minimum of 1' above BFE or crown of nearest street or closest BFE (7) EC required when construction is completed and prior to CO. (8) All sanitary sewer manholes must be bolted and sealed 1' above BFE (9) Structures crossing the floodplain must be sized to carry the 100-year flood discharge. (10) Permit violations carry \$500/day fine (11) Two (2) CFM's on staff (12) Conroe is CRS 7	LFA is a CFM	2	7
Coppell	1	2	City is CRS 7	LFA is a CFM	1	7
Copper Canyon		1	Flood plain administrator requires 2 feet on all new subdivisions			
Copperas Cove		1.5				
Corinth		2	(1) EC is required when construction is completed and prior to CO (2) New Ordinance 4/18/2011			
Corpus Christi	at BFE	0	City considering Ordinance with 1' freeboard above BFE. Elevation Certificate required before CO. Corpus Christi is CRS 7 - City has 2 CFM's on staff.	LFA is a CFM	2	7

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Corsicana		1	(1) Developer is required to conduct a study to define BFE and floodway in Zone A. (2) EC is required prior to forming/pouring lowest floor; when structure is completed; and prior to CO.	LFA is a CFM	1	
Crowley		2	(1) Developer is required to conduct a study to define BFE in Zone A. (2) Proposed development in the floodway must include a H&H study proving no (0.0') increase in the BFE's. (3) Detention is required (4) EC is required prior to forming/pouring lowest floor and when structure is completed.(5) New bridges and culverts must pass fully developed flows with 1' freeboard.			
Dallas	3	*see notes	(1) All floodplains have been mapped to fully-developed conditions (2)No construction allowed in the floodplain (3) New construction must be BFE +3' (4) In Corps defined floodway, on Trinity River and tribs, no development is allowed without CLOMR, Dallas Fill Permit and Corridor Development Certificate (5) Fill permit allows reclamation but has +3' freeboard and NAI requirement (6) Dallas does not have floodways therefore there is a 0' rise allowed in floodplain (7) Hydraulics analysis required & no loss in valley storage allowed.(8) EC's required for modification to existing structures. (9) City also has environmental requirements in SFHA. (10) Detention may be required (11) Dallas is CRS Class 5. (12) Dallas is a CTP Community	LFA is a CFM	18	5
Dalworthington Gardens		2				
Decatur	2	2	(1) Developer is required to conduct a study to define BFE in Zone A to establish BFE and floodway. (2) Detention is required (3) In Zone X, new development must be elevated 0.5' above natural ground or curb of nearest street. (4) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO	LFA is a CFM	1	
Deer Park		1.5'	(1) Plats must show floodplain boundaries and BFE's (2) EC required when construction is completed (3) Floodplain Ordinance posted on City website (4) Deer Park is CRS 8			8
Denison		2	(1) Critical Facilities that cannot be located outside the 500-year floodplain must be elevated a minimum of +3' above the BFE (2) EC can only be prepared by a RPLS	LFA is a CFM	1	

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Denton	2	2	(1) No rise allowed in floodway/floodplain. (2) In Zone A, Developer must define Floodplain and Floodway if 3 acres or 20 lots. (3) New structures in Zone X and any structure within 200' of SFHA must be elevated 2.5' above BFE or 18" above crown of nearest street whichever is higher. (4) EC required when structure is completed and before CO. Denton is CRS Class 6.	LFA is a CFM	1	6
Denton County		2	(1) Developer must conduct a study to establish the BFE in Zone A areas (2) Developer must mitigate downstream impacts (3) Form board survey required before lowest floor is poured (4) EC is required when construction is completed and prior to CO (5) Geotechnical report and engineering foundation design is required for new structures in SFHA. (6) County is CRS 10	LFA is a CFM	4	10
Desoto		2	(1) EC required upon completion of construction (2) city has adopted the 2003 International Building Code			
Dickinson		1	(1) Onsite and regional detention is required (2) Developer must setback from Floodway boundary and mitigate downstream impacts (3) Development in Zone X must be elevated a minimum of 2' above NG or crown of nearest street (4) EC required prior to forming/pouring lowest floor; when construction is completed and prior to CO	LFA is a CFM	2	8
Double Oak		1	Floodplain administrator requires +2 feet on all new subdivisions			
Duncanville	2	2	(1) Developer is required to conduct a study to define BFE and floodway in Zone A based on fully developed watershed conditions. (2) Detention is required (3) EC is required prior to forming/pouring lowest floor; when structure is completed and prior to CO (4) Duncanville is CRS 7.	LFA is a CFM	1	7
Eagle Lake		1	requires final EC from surveyor for all new construction in FP			
Eagle Pass		1	(1) Developer is required to conduct a study to define BFE and floodway in Zone A. (2) Detention is required (3) In Zone X, new development must be elevated 1' above natural ground or curb of nearest street. (4) EC is required prior to forming/pouring lowest floor, when structure is completed and prior to CO	LFA is a CFM	1	
East Bernard		1	City has contracted with Wharton County to manage floodplain management program.	Wharton Co. LPA is CFM	1	

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El Campo		0	(1) In Zone X (shaded) - new development must be 18 in. above natural grade or 12 in. above crown of nearest street (2) In Zone X (unshaded) new development must be 18" above crown of nearest street. (3) EC required before framing/pouring lowest floor and after construction is complete. (4) No development permitted in the Floodway (5) City has FEMA approved all-hazard and Flood Mitigation Plans.	LFA is a CFM	1	
El Lago		4.1	(1) New construction must be elevated at or above 15.7' (BFE = 11.6') (2) EC required prior to forming/pouring lowest floor and before CO			
Elgin		1				
El Paso, City of		0	(1) Developer must perform a study and define BFE and Floodway in Zone A. (2) New construction in Zone X (shaded and unshaded) must be elevated 0.67' above NG or crown of nearest street. (3) Regional detention is required for large subdivisions (4) El Paso adopted Drainage Impact Fees to fund drainage projects (5) City is CRS 9 (6) EC required before framing; after construction and before CO. (7) Proposing 1' above BFE and all Subdivisions, Grading, Drainage, Commercial and Residential Improvement Plans based on NAVD 88 once DFIRMs are made effective.	LFA is a CFM	1	9
Eules		2	Zone A - Developer must submit a H&H Study, based on fully developed watershed, identifying 100-year BFE, dedicate the area that is inundated by 25-year fully developed storm, and new development must be BFE+2. Detention is required if downstream system is undersized. City has FEMA approved all hazards and Flood Mitigation Plans.	LFA is a CFM	1	
Fairview		3	EC is required when construction is completed			
Farmers Branch	2	2	(1) Zone A - Developer must conduct a study to establish the BFE and Floodway (existing and fully developed conditions) prior to permit. (2) Developer must mitigate (on site) impacts of development. (3) Development in Zone X must be elevated a minimum of 2' above NG or crown of nearest street (4) EC required prior to forming/pouring lowest floor	LFA is a CFM	1	

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Fayette County		1	a new ordinance is being proposed requiring +2'. (2) EC required at final stage of dev/ (3) FPA position is recently vacant/ it was managed by a CFM			
Flower Mound	1.5	1.5	(1) No development is allowed in the floodplain without a no rise study showing no increase in water surface or velocity (2) In Zone A, developer must conduct a study to define floodplain. (3) No fill is allowed in floodplain or floodway without mitigation (4) In Zone X development must be elevated a minimum of 1' above the curb. (5) Detention is required (5) EC required when construction is completed and prior to CO	LFA is a CFM	2	
Forney		0		1	1	

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Fort Bend County	1	1	(1) In Zone A, the Developer is required to conduct a study to define BFE and floodway. (2) Detention is required (3) In Zone X structures must be elevated a minimum of 18" above NG and above the crown of the nearest street (4) EC is required prior to forming/pouring lowest floor and when construction is completed.	LFA is a CFM	7	
Fort Worth	2	3	(1) Fort Worth has a FEMA approved all hazards Mitigation Plan (2) City has installed a flood warning system (3) City has three CFMs on staff	LFA is a CFM	3	8
Fredericksburg	N/A	N/A	100-yr flood plane is zoned Open Space, no new construction allowed including additions to existing structures			
Freeport	1	2	(1) Developer is required to conduct a study to define the existing conditions and fully developed conditions BFE and floodway in Zone A (2) New construction in Zone X must be elevated 12 inches above NG in Zone X Shaded and 12 inches above NG in Zone X Unshaded (3) EC required prior to forming/pouring lowest floor; when structure is completed; and prior to CO.(4) Levee certification effort is underway	LFA is a CFM	1	
Friendswood	2	2	(1) Developer must conduct a study to establish the BFE and Floodway in Zone A before permit (2) new construction must be elevated:+ 2' in Zone X shaded and +1.5' in Zone X unshaded (3) Detention required (4) EC required prior to forming/pouring lowest floor, when construction is completed and prior to CO (5) City is CRS 5	LFA is a CFM	2	5
Frisco	2	2	(1) Developer is required to conduct a study to define the existing conditions and fully developed conditions BFE and floodway in Zone A (2) New construction in all zones must be elevated a minimum of 12" above curb (3) Detention is required (4) Developer must offset from floodway boundary and mitigate downstream impacts (5) City has fully developed conditions models and all future development must be outside fully developed floodplain	LFA is a CFM	3	

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Gainesville	2	2	(1) Developer is required to conduct a study to define existing conditions and fully developed conditions BFE and floodway in Zone A. (2) Detention is required for new construction. (3) New construction in Zone X (shaded) must be elevated a minimum of 1' above NG or crown of nearest street and 0.75' above in Zone X (unshaded) (4) EC is required prior to forming/pouring lowest floor and when structure is completed. (5) Two (2) CFM's on Staff	LFA is a CFM	1	
Galveston		0	(1) New construction in Zone X must be elevated a minimum of 18" above NG or crown of nearest street (2) EC is required when structure is completed and prior to CO (3) Two (2) CFM's on Staff	LFA is a CFM	1	7
Galveston County		0	(1) New construction in Zone X must be elevated 24 inches above NG in Zone X Shaded and 18 inches above NG in Zone X Unshaded (2) EC required when structure is completed. (3) Major HMGP buyout project underway on Boliver Peninsula		1	
Garland	2	2	(1) Fully-developed BFE and compensatory valley storage required for all development in Rowlett and Spring Creeks. (2) Developer must conduct a study for to define floodplain and floodway in Zone "A" areas. (3) Detention required for high impact projects. (4) In Zone X all development must be elevated a minimum of 2' above point of positive drainage (5) EC is required when construction is completed and prior to CO (6) Garland is CRS 7.	LFA is a CFM	4	7
Georgetown		1	(1) In Zone A, the Developer may be required to conduct a study to define BFE and floodway. (2) Detention is required (3) Development in Zone X must be elevated a minimum of 1' above NG and above the crown of the nearest street (4) EC is required when construction is completed and prior to CO.	LFA is a CFM	1	
Gillespie County		0	EC required prior to forming/pouring lowest floor and when construction is completed			
Goldthwaite	1	2	City required drainage review by CFM for all subdivision proposals. City is CRS Class 7 but lower class is pending.. City is a FEMA Cooperative Technical Partner (CTP). Two (2) CFM's on staff.	LFA is a CFM	2	
Gonzales County		0				

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Grand Prairie	1	2	(1) Developer must conduct a study, based on fully developed watershed conditions, to define BFE and floodway in Zone A (2) On-site and regional detention is required (3) Developer must mitigate downstream impacts (4) Floodway setback required for new construction (5) EC required prior forming/pouring lowest floor, when construction is completed and prior to CO (6) City is CRS Class 5 (7) City is a FEMA Cooperative Technical Partner (CTP).	LFA is a CFM	4	5
Grapevine	2	3				
Greenville		2	(1) Pad elevation must be +1' above BFE (2) In reclaimed areas lowest floor must be +2' above BFE (3) Structures in the SFHA that have footprint increased greater than 15% are considered substantially improved	LFA is a CFM	1	
Grimes County		0	(1) In Zone A, the Developer is required to conduct a study to define BFE and floodway. (2) Detention is required (3) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	
Guadalupe County	1	1	(1) new construction must be elevated 1' above BFE. (2) Developer must submit a study showing BFE and floodway in Zone A areas based on fully developed conditions. Study must also show "no rise". (3) Detention is required to mitigate development. (4) EC is required prior to forming/pouring lowest floor; after construction is completed and prior to CO. (5) New Plats must show BFE for all lots in floodplain. (6) County is CRS 8. (7) Three CFM's on staff.	LFA is a CFM	3	8
Gun Barrell City		3	EC is required when construction is completed			
Harlingen	2	2	(1) In Zone A, the Developer is required to conduct a study to define BFE and floodway. (2) Detention is required (3) Development in Zone X must be elevated 2' (Shaded X) and 1.5' (Unshaded X) (4) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO	LFA is a CFM	1	
Haltom City		2	City has initiated a major HMGP acquisition project to remove a mobile home park from the floodway.	LFA is a CFM	1	7
Harden County	1	1	(1) In Zone A, the Developer may be required to conduct a study to define BFE and floodway. (2) Detention is required (3) EC is required prior to forming/pouring lowest floor and when construction is completed.	LFA is a CFM	1	

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Harker Heights		1				
Harris County	1.5	1.5	(1) Developer must conduct a study to define both the BFE and floodway prior to permitting development in Zone A (2) 1.5 feet to lowest horizontal member in floodway (2) no fill is allowed in floodplain or floodway without mitigation (NAI) (3) detention is required (4) Development in Zone X (shaded) must be elevated a minimum of 1.5' above natural ground or closest BFE (5) EC is required when construction is completed (6) Critical facilities must be elevated a minimum of 18" above 500-year flood elevation (7) County is CRS 8 (8) HCFCD is a FEMA Cooperative Technical Partner (9) Harris County has 9 CFMs on staff.	LFA is a CFM	9	7
Harrison County		0	Commissioners Court is evaluating an 2012 ordinance that incorporated higher standards (freeboard)	LFA is a CFM	1	
Haslet	1	1	(1) New Construction must be +1' above Fully Developed BFE in all studied areas and +1' in unstudied areas.(2) Developer must conduct a study and define fully developed BFE and FW in Zone A. (3) EC required prior to pouring lowest floor.	LFA is a CFM	1	
Hays County		1	(1) In Zone A, the Developer may be required to conduct a study to define BFE and floodway. (2) Detention is required (3) EC is required when construction is completed and before CO is issued. (4) Permits are required for all development to determine compliance	LFA is a CFM	1	
Henderson County		3	EC required when construction is completed			
Herlotes	1	1	Developer must establish BFE and Floodway in Zone A. Detention is required. EC is required before pour and after construction is completed.	LFA is a CFM	1	
Highland Haven	2	2	(1) No fill in floodplain or floodway with out mitigation (2) all development in SFHA must be elevated a minimum of +2' above NG (3) Development in Zone X must be elevated a minimum of +1' above NG (4) EC is required prior to forming/pouring lowest floor; when structure completed and prior to CO.(5) City is basically built out and only SF lots remaining	LFA is a CFM	1	
Highland Park		1				

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Highland Village	2	2	(1) Developer must conduct a study to define BFE and floodway in Zone A (2) No fill in floodplain or floodway with out mitigation (3) Detention is required for subdivisions greater than 5 acres (4) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	
Hillsboro	2	2	(1) Developer must conduct a study, based on fully developed watershed conditions, to define BFE and floodway in Zone A (2) Detention is required (3) EC is required prior to forming/pouring lowest floor; when construction is completed and prior to CO (4)All new construction and substantial improvements of residential and commerical structures have the lowest floor including basement elevated to two 2 feet above the base flood elevation (5) Development fee of \$200 is required	LFA is a CFM	1	
Hillshire Village		1	(1) Hillshire Village enforces HCFCD detention requirements. (2) Hillshire Village is part of the HGAC Mitigation Plan			
Hitchcock	1	1	(1) Developer must conduct a study to define the floodway and BFE in Zone A (2) EC required prior to forming/pouring lowest floor, when construction is completed and prior to CO	LFA is a CFM	1	
Houston	1.5	1.5	(1) 1 foot freeboard in floodplain, 1.5 feet freeboard in floodway (2) Onsite and regional detention is required. (3) Developer must mitigate downstream impacts (4) Development in Zone X must be elevate a minumum of 1' above NG and crown of nearest street (5) EC required prior to forming/pouring lowest floor, when construction is completed and prior to CO. City is a CRS 5.	LFA is a CFM	1	5
Hunt County		2	(1) Developer must conduct a study to define the floodway and BFE in Zone A (2) EC required prior to forming/pouring lowest floor and when construction is completed			
Hutto	1	2	(1) Developer must conduct a study to define the floodway and BFE in Zone A (2) Detention is required to mitigate the impacts of a proposed project	LFA is a CFM	1	

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Hurst	1	1	(1) Developer must conduct a study to define the floodway and BFE in Zone A (2) Detention is required to mitigate the impacts of a proposed project (3) Development must be setback from floodway boundary (4) Development in Zone X must be elevated above fully developed BFE (5) EC required prior to CO (6) City is creating a Storm Water Utility (7) City has adopted both iSWM and SWMP . Hurst is CRS 7.	LFA is a CFM	1	7
Ingleside	1	1	(1) City utilized the 1987 San Patricio Drainage District Study that established the 100-year flood elevation in the City (2) New development must be +1' above BFE or +1' above crown of nearest street whichever is higher. (3) Developer must conduct a study to define the BFE in Zone A (4) Onsite Detention required (5) Development in Zone X must be elevated a minimum of +1' above the crown of closest road (6) EC required prior to formng/pouring lowest floor; when construction is completed and prior to CO	LFA is a CFM	1	
Irving		2		LFA is a CFM	1	
Jamacia Beach		0	(1) City has Zone V areas where no fill is allowed (2) EC is required prior to forming/pouring lowest floor; when construction is completed; and prior to CO			
Jasper		1				
Jefferson County	1	1	(1) Developer must conduct an engineering analysis identifying mitigation needed to show no adverse impact (2) Development in Zone X must be elevated a minimum of 1' above NG. (3) EC required prior to forming/pouring lowest floor and when construction is completed	LFA is a CFM	1	
Jersey Village	1.5	1.5	(1) In Zone A, developer must conduct a study to define the floodway and BFE. (2) Detention is required to mitigate the impacts of a proposed project. (3) In Zone X (shaded) new construction must be elevated a minimum of 1' above natural grade or crown of nearest street (4) EC required prior to forming/pouring lowest floor; when construction is completed and prior to CO	LFA is a CFM	1	
Johnson County			County requires +3' freeboard	LFA is a CFM	1	

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Jonestown	1	1	(1) In Zone A, developer must conduct a study to define the floodway and BFE. (2) Detention is required to mitigate the impacts of a proposed project. (3) EC required prior to forming/pouring lowest floor; when construction is completed and prior to CO	LFA is a CFM	1	
Kaufman	1	2	(1) Developer must conduct a study to define the floodway and BFE in Zone A based on fully developed watershed conditions. (2) Detention is required to mitigate the impacts of a proposed project (3) Development in Zone X must be elevated a minimum of 1.5' above NG and above the crown of the nearest street (4) EC required prior to forming/pouring lowest floor and when construction is completed	LFA is a CFM	1	
Kaufman County	2	2	(1) Two feet of freeboard is required (2) In Zone A, developer must conduct a study to define the BFE and floodway based on existing and fully developed conditions (3) Developer must provide detention and mitigate downstream impacts (4) In Zone X new development must be elevated a minimum of 2' above natural grade or above the crown of the nearest street whichever is higher			
Keller	2	2	(1) Developer must conduct a study to define the floodway and BFE in Zone A based on fully developed watershed conditions. (2) Detention is required to mitigate the impacts of a proposed project (3) EC required prior to CO (4) Two CFM's on staff.	LFA is a CFM	2	
Kemah		1.5	(1) City has successfully acquired flood prone properties using HMGP (2) Kemah is CRS 5		1	5
Kemp		2				
Kendall County		0	(1) In Zone A, developer must conduct a study to define the floodway and BFE. (2) Detention required to mitigate the impacts of a proposed project. (3) EC required prior to forming/pouring lowest floor; after structure is complete and prior to CO.	IFA is a CFM	1	
Kennedale		2		LFA is a CFM	1	
Kerr County		1	(1) Developer must conduct a study to define the BFE in Zone A areas. (2) EC required when construction is completed	LFA is a CFM	1	

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Kerrville	1	1	(1) In Zone A, developer must conduct a study to define the floodway and BFE. (2) Detention may be required to mitigate the impacts of a proposed project. (3) EC required prior to forming/pouring lowest floor; after structure is complete and prior to CO. (4) Three CFMs on staff	LFA is a CFM	3	
Killeen		2	(1) New construction in Zone AE must be elevated a minimum of +2' BFE (2) EC is required at permit application; prior to forming/pouring lowest floor and prior to final inspection.	LFA is a CFM	1	
Kingsville		1	City is proposing +2 ft above BFE along the floodplain with no new development allowed in the floodplain unless an engineered study is provided showing no rise in FP			
La Marque		0	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) No fill is allowed in floodplain or floodway without mitigation. (4) EC is required prior to CO. LFA is a CFM.	LFA is a CFM	1	
La Porte		1	LaPorte is CRS 7		1	7
Lago Vista	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) No fill is allowed in floodplain or floodway without mitigation. (4) EC is required prior to framing/pouring lowest floor; when construction is completed; and prior to CO. LFA is a CFM.	IFA is a CFM	1	
LaGrange		0	(1) Development in Zone X must be elevated 1' above natural grade or crown of nearest street (2) EC is required when construction is completed and prior to CO	LFA is a CFM	1	
Lake Ransom Canyon		1	City of Lubbock provides technical assistance			
Lakeway		1	(1) Within Zone A, if no base flood elevation data is available, new and substantially improved structures shall have the lowest floor (including basement) elevated at least 2 ft. above the highest adjacent grade.(2) EC required after construction is completed.			

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Lamarque		0	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) Development in Zone X must be elevated a minimum of 18" above NG and above the crown of the nearest street (4) EC is required prior to framing/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	
Lampasses County		0	(1) New construction in SFHA must be setback from floodway boundary (2) Development in Zone X must be elevated a minimum of 1' above NG and above the crown of the nearest street (3)	LFA is a CFM	1	
Lancaster	1	*see notes	(1) Lowest floor must be elevated +1' BFE based on fully developed conditions (2) Detention is required to mitigate development in SFHA. (3) EC required before CO is issued. (4) Pre Development peak flows must be maintained. Downstream assessment is required using a 10% zone of influence.	LFA is a CFM	1	
Laredo	1	1	(1) Developer must conduct a study, based on fully developed watershed conditions, to establish BFE and Floodway in Zone A areas (2) Both onsite and regional detention required to mitigate development impacts (3) Developer must setback from Floodway boundary and mitigate downstream impacts. (4) Ec required prior to placement/pouring lowest floor	LFA is a CFM	4	
League City	1.5	1.5	(1) All new construction must have a freeboard of 1.5 feet - above BFE in SFHA, above nearest adjacent BFE in shaded X zone, and 1.5' above highest natural grade or crown of street in X zone. (2) ECs are required at all 3 stages. (3) City is a no-rise community. (4) Cut and fill mitigation (grading) plan required. (4) Cumulative substantial improvements/damage over a 10-year period. (5) League City is a class 6 in CRS. (6) City has 9 CFM's on staff	LFA is a CFM	8	6
Levelland		0		1	1	

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Lewisville		2	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) Development in Zone X must be elevated a minimum of 2' above NG and above the crown of the nearest street (4) EC is required prior to framing/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	2	7
Liberty County		1	(1) New construction in Zone AE must be elevated a minimum of +1' BFE (2) New construction in Zone X (shaded and unshaded) must be elevated a minimum of 1.5' above natural grade or crown of the nearest street. (3) Developer must conduct a study to define BFE and Floodway in Zone A. (4) Detention is required for new construction. (5) EC is required prior to forming/pouring lowest floor and after structure is completed.	Co Eng is a CFM	1	
Little Elm	2	2	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) No fill is allowed in floodplain or floodway without mitigation. (4) EC is required prior to framing/pouring lowest floor.	LFA is a CFM	1	
Live Oak County	1	1	(1) Developer must conduct a study to define BFE in Zone A. (2) Onsite and regional Detention is required for new construction. (3) Developer must offset from Floodway boundary and mitigate downstream impacts (4) No fill is allowed in floodplain or floodway without mitigation. (5) In Zone X new construction must be elevated to street level (6) EC is required prior to forming/placement of lowest floor and prior to CO. LFA is a CFM.	LFA is a CFM	1	
Live Oak		1	Live Oak is CRS 7		1	7
Llano		1	(1) Developer must conduct a study to define impact in Floodway and detention may be required. (2) Development in Zone X must be elevated a minimum of +1 above NG. (3) EC required prior to forming, when structure is completed an before CO.	LFA is a CFM	1	

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Llano County	2	2	(1) No windows, doors or lighting in structures with level below BFE; (2) Elevation Certificates required prior to forming/pouring lowest floor, when construction is completed and prior to CO. (3) Developer is required to perform a study and define BFE in Zone A. (4) Pre-FIRM structures below BFE cannot be enlarged (footprint) even if not substantial improvement. (5) Fill must be compacted to 95% Proctor. (6) Two CFMs on staff		2	
Log Cabin		3	EC required when construction is completed			

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Longview		2	(1) new construction must be elevated +2 feet in zone AE and +0.5 feet above surrounding grade in Zone X (3) Study required to define BFE and floodway in Zone A areas (4) EC required prior to forming/pouring lowest floor and when new construction is completed. (5) Developer's engineer r+D188 required to certify adequate drainage capacity is available or provide detention.	LFA is a CFM	1	
Lubbock	1	1	(1) Lubbock has many Playa Lakes floodplains that must be treated as lakes not riverine floodways The lowest floor of new construction must be a minimum of 1' above crown of nearest street. In playa lake areas: new development must be elevated (a) a minimum of 1' above the BFE; (b) a minimum of 2' above the lake overflow or (c) a minimum of 1' above the 500-year level if the playa does not overflow during the 500-year event (2) Developer must conduct a study to establish new BFE's in Zone A's (3) In established subdivisions new construction must be elevated a minimum of 1' above BFE (3) In new subdivisions construction must be elevated a minimum of 0.5' based on fully developed watershed conditions (4) (5) City requires NAI regarding floodways = 0.0000'rise (5) In Zone X new development must be elevated a minimum of 1' above natural grade or above the crown of the nearest street 6) Drainage analysis, based on fully developed watershed conditions, is required for all new development (7) EC required before forming/pouring lowest floor and prior to CO. (8) Lubbock is CRS Class 8 (9) Four CFMs on staff.	LFA is a CFM	4	8
Lubbock County	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A.(2) Development in Zone X must be elevated a minimum of 1' above natural grade or crown of nearest street.	LFA is a CFM	1	
Lufkin	1	1	Developer must conduct a study to define BFE and Floodway in Zone A.	1	1	
Madison County		2				
Malakoff		3	EC required when construction is completed			

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Mansfield	2	3	(1) Developer must conduct a study, based on fully developed watershed conditions, to define the BFE and floodway in Zone A areas (2) City has FEMA approved Flood and all-hazards Mitigation Plans (3) City has developed a Repetitive Loss Plan.(4) EC is required when construction is completed and prior to CO (5) In Zone X new construction must be elevated a minimum of 3' above NG and above the crown of the nearest street (6) City has adopted the NCTCOG iSWM Drainage Criteria Manual (7) Earthen channels must be constructed with 1' freeboard for 100-year flood flow and have 4:1 erosion setback from bottom of channel (minimum of 10' set back from top of bank) (8) Detention is required to mitigate any fill in floodplain and floodway (9) City has successfully acquired nine properties using acquisition funding (10) Ultimate development studies completed on all FEMA channels in the City.	LFA is a CFM	1	
Manvel		2	(1) New construction must be elevated +2' above BFE. (2) Developer must submit a study establishing the BFE and floodway in Zone A. (3) Any development in the floodway must include a "no rise" certificate. (4) New construction in Zone X (shaded) must be elevated +2' above natural grade or crown of the nearest street. In Zone X (unshaded) the requirement is +1.5' above natural grade or crown of the nearest street. (5) Detention is required to offset the impacts of proposed development. (6) EC required prior to forming and pouring lowest floor; after construction; and prior to CO.	LFA is a CFM	1	
Marble Falls		1	studies required in un-numbered A for BFE and floodway/ no fill allowed in floodway without mitigation/ EC required at permit, prior to foundation, at completion and prior to CO/ interested in CRS/ FPA is CFM	LFA is a CFM	1	
Martindale		0	(1) Developer must conduct a study to define the BFE and detention may be required. (2) New construction in Zone X (shaded) must be elevated a minimum of 2 feet above natural grade or above the crown of the nearest street. (3) EC required prior to forming or pour lowest floor, when structure is completed and before CO.	LFA is a CFM	1	

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Matagorda County		2	(1) New development must be elevated a minimum of +2' above BFE. (2) No development allowed in the Floodway without an engineering study showing 0.00' rise (3) in Zone A the developer must conduct a study, based on fully developed conditions, to define the BFE and floodway boundary before permit issued. As a minimum the new development must be 2' above natural grade. (4) EC required before forming/pouring lowest floor, when structure is completed and prior to final electric connection (5) Piling and breakaway wall certification required for construction in Zone V (6) County has adopted cumulative substantial improvement ordinance requiring cumulative for a minimum of 5 years. (7) County has FEMA approved all-hazards and Flood Mitigation plans.	LFA is a CFM	1	
Maybank		3	EC is required when construction is completed			
McKinney	2	*see notes	(1) Developer must conduct a study, based on fully developed watershed conditions, to define the BFE and floodway. (2) Detention is required if erosive or capacity conditions exist downstream (3) Minimum finish floor must be shown on all Plats adjacent to the floodplain	LFA is a CFM	1	
Meadowlakes	1	1	(1) Developer must conduct a study to identify BFE and Floodway boundary in Zone A (2) In Zone X, new construction must be elevated 1.5' above natural grade or crown of nearest street. (3) EC required: before construction begins; when forms are in place (but before pour); after foundations complete; and prior to CO (4) No Rise certificate required for Floodway development	LFA is a CFM	1	
Medina County		1.5	(1) Developer must conduct a study to define BFE and floodway in Zone A prior to permit (2) On-site detention is required for new construction. (3) 18" Freeboard required in all zones (4) EC is required prior to forming/pouring lowest floor and when construction is completed.	LFA is a CFM	1	

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Mesquite	2	2' (see notes)	(1) Mesquite uses BFEs based on fully developed watershed conditions. (2) Mesquite requires developer to do an ultimate development (built out) model and keep finish floors 2' above this elevation. (3) Development in Zone X must be elevated a minimum of 2' in X shaded and 1' in X unshaded (4) On-site detention is required when site exceeds 10 acres (5) No fill is allowed in FP or FW without mitigation-no adverse impact (5) EC required prior to placing/pouring lowest floor and prior to CO (6) Two CFMs on staff.	LFA is a CFM	2	
Midland		1	Playas Lowest floor must be +1' above overflow elevation or BFE whichever is higher. No import of fill is allowed in Playas. This is difficult to enforce. Midland is CRS 8		1	8
Midlothian		2	City recently revised the ordinance to require new construction to be elevated a minimum of 2' above BFE			
Mills County		0		none		
Missouri City	1	1	(1) Developer must conduct a study to define the BFE and detention may be required. (2) New construction in Zone X must be elevated a minimum of 1.5 feet above natural grade or above the crown of the nearest street. (3) EC required for all new construction regardless of Zone and prior to forming, when structure is completed and before CO. (4) Missouri City is CRS 7 (4) City utilizes NAVD 1988 for EC's and new construction.	LFA is a CFM	1	7

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Mont Belvieu	2	2	(1) Developer must conduct a study, based on fully developed watershed conditions, to define the BFE and floodway in Zone A areas. (2) Detention is required. (3) New construction in Zone X must be elevated a minimum of 1.5 feet above natural grade or above the crown of the nearest street. (4) EC required prior to forming/pouring lowest floor; when construction is completed and prior to CO.	LFA is a CFM	1	
MontgomeryCounty	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required (3) EC is required prior to forming/pouring lowest floor		2	
Nacogdoches		1				
Nassau Bay		2	Nassau Bay is CRS 7		1	7
Nederland	1.5	1.5	(1) Developer must conduct a study, based on fully developed watershed conditions, to define the BFE and Floodway (2) Detention is required. (3) New construction in Zone X must be elevated a minimum of 1' above natural grade or above the crown of the nearest street (4) EC required prior to forming/pouring lowest floor; when construction is completed and prior to CO. (3) One CFM on staff	LFA is a CFM	1	
New Braunfels	2	2	(1) Developer must conduct a study, based on fully developed watershed conditions, to define the BFE and Floodway (2) Detention is required. (3) EC required prior to forming/pouring lowest floor; when construction is completed and prior to CO.	LFA is a CFM	3	6
North Richland Hills		1.5	FF must be 1.5' above BFE. CLOMR/LOMR required for all Zone "A" floodplain, subdivisions 5 acres and larger located in Zone "AE", and subdivisions with any proposed improvements in the floodway. A separate ordinance governs Little Bear Creek which specifies no rise in ultimate BFE. NRH is CRS Class 7. Two Elevation Certificates are required during construction - (1) with form board survey and (2) prior to issuance of CO. City has two CFM's on staff.North Richland Hills is CRS 6.	LFA is a CFM	2	6
Nueces County		0	Fill placed in floodplain/floodway must be mitigated. EC required prior to forming/pouring lowest floor and when structure is completed.			
Oak Ridge North		1		LFA is a CFM	1	

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Odessa	1	1	(1) Developer must conduct a study, based on fully developed watershed conditions, to establish both BFE and floodway in Zone A areas (2) Detention is required to mitigate development.(3) Development in Zone X must be elevated a minimum of 1' above NG and above the crown of the nearest street (4) EC required after construction is completed and prior to CO. (5) Odessa is Class 7 CRS.	LFA is a CFM	2	7
Orange County		0	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Development in Zone X must be elevated 18-20 inches above natural grade or above the crown of the nearest street (3) EC is required prior to forming/pouring lowest floor; when construction is completed; and prior to CO.	LFA is a CFM	2	
Palacios		1	(1) EC required prior to pouring lowest floor; when structure is complete; and prior to CO (2) City has FEMA approved all-hazard and Flood Mitigation Plans	LFA is a CFM	1	
Palestine	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) No fill is allowed in floodplain or floodway without mitigation (NAI) (3) Onsite and regional detention required (4) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	
Pantego		2				
Paradise		2	New NFIP Community			
Parker County		2	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) No fill is allowed in floodplain or floodway without mitigation (NAI) (3) Onsite and regional detention required (4) Developer must setback from Floodway boundary and mitigate downstream impacts (5) Engineering study required to show no rise in BFE due to development (6) Development in Zone X must be elevated a minimum of 2' above NG or above the crown of the nearest street (7) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Pasadena	1	1	(1) One foot above the base flood elevation (BFE) for properties within the floodplain -Zone AE and (2) one foot above the centerline or crown of the neighboring street for properties outside the floodplain - Zone X. (3) Detention is required for any development of property with more than 1 acre in size to mitigate the impact of fill/development.(4) City follows Harris County Flood Control District's Design Criteria manual. (5) EC required prior to framing/pouring lowest floor; when construction is completed; and prior to CO.(6) EC is also required in all Zone X areas. (7) Pasadena has 4 CFM's on staff. Pasadena is CRS class 5.		4	5
Payne Springs		3	EC required when construction is completed			
Pearland		1	Pearland is CRS 7	LFA is a CFM	1	7
Pflugerville		0	City is CRS 7		1	7
Pinehurst		0	(1) Developer must conduct a study and define the BFE and flowway in Zone A (2) Development in Zone X must be elevated a minimum of 0.5' above natural grade or above the crown of the nearest street. (3) EC required when structure is completed and prior to CO	LFA is a CFM	1	
Planeview		1				
Plano	2	2	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) Developer must mitigate downstream impacts (4) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO. (5) Plano has a FPM Staff of 4 (6) Plano is CRS Class 5.	LFA is a CFM	4	5
Point Blank		0	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) EC is required prior to forming/pouring lowest floor and prior to CO.	LFA is a CFM	1	
Point Venture		1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Developer must setback from Floodway boundary (3) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO.			

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Polk County		1	(1) Developer must conduct a study to define BFE in Zone A (2) On site detention and setback from floodway boundary required. (3) Areas around Lake Livingston in Zone A requires EC. (4) County permits are withheld until EC has been submitted. (5) Electric service cannot be purchased until County has determined if property is in SFHA (6) Polk County has 1 CFM on staff.	LFA is a CFM	1	
Port Arthur			Port Arthur is CRS 9		1	9
Randall County	3	3	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) EC is required when construction is completed and prior to CO.			
Raymondville	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) New construction in Zone X must be elevated a minimum of 1.5' above natural grade or crown of nearest street. (4) EC is required when construction is completed and prior to CO.	LFA is a CFM	1	
Richardson		2	(1) EC is required when construction is completed and prior to CO (2) Richardson is CRS 7		1	7
Richmond	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) Detention is required for new construction. (3) New construction in Zone X must be elevated a minimum of 1.5' above natural grade or crown of nearest street. (4) Mobil homes must be elevated so that the bottom of horizontal structural members are above BFE (5) EC is required when construction is completed and prior to CO.	LFA is a CFM	2	
Richland Hills		1	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) New development is encouraged to be elevated +2' above BFE (3) EC is required when construction is completed and prior to CO. (4) Richland Hills has a FEMA approved all hazard Mitigation Plan			8
Round Rock		0	(1) Developer must conduct a study to define BFE and Floodway in Zone A.	LFA is a CFM	3	

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Rowlett		2	(1) Developer must conduct a study to identify BFE and floodway in Zone A. (2) New construction in Zone X Shaded must be elevated a minimum of 2 feet above NG or nearest street. (3) Detention is required except for lots in excess of 1 acre or proof submitted that no negative impact on the existing storm drainage system (4) Floodway setback is required for new development (5) Builders required to submit a Lot Grading Plan as part of permit request. (6) Survey or EC is required prior to pouring lowest floor of new construction. (7) EC required when structure is completed and prior to CO. (8) As Built sealed by a RPLS is required when structure is completed	LFA is a CFM	1	
Royce City	2	2	(1) Developer must conduct a study to define BFE and Floodway in Zone A for both existing and fully developed conditions. (2) Detention is required for new construction. (3) EC is required prior to forming/pouring lowest floor; when construction is completed and prior to CO.			
Sachse		2	(1) Detention is required (2) EC required prior to forming/pouring lowest floor	LFA is a CFM	1	
Saginaw		2	EC required when construction is completed			
Saledo		0	(1) Developer must conduct a study to define BFE and Floodway in Zone A (2) Detention is required for new construction. (3) Fill cannot be used to reclaim any area in SFHA or Floodway (4) EC is required prior to forming/pouring lowest floor; when construction is completed and prior to CO.	LFA is a CFM	1	
San Angelo		1	Lowest Floor elevated +1' above BFE on FIRM			

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San Antonio	1	1	(1) No habitable structures allowed in floodplain (2) Non-residential structures in floodplain and adjacent to floodplain must be elevated +1' above ultimate development BFE (3) Reclamation of floodplain is not allowed when drainage area is greater than 320 acres (4) Ponding depth in parking lots in SFHA cannot exceed 6 inches (5) City acquires Repetitive Loss structures and structures that have been substantial damaged (6) New DFIRMs will show floodplain boundaries based on ultimate development (7) City enforces cumulative building addition and substantial improvements over a 10-year period (8) All development must demonstrate no adverse flooding impact to 2000 feet downstream of development (10) Detention required to mitigate adverse impacts (11) EC required when construction is complete and prior to CO (12) City has 15+ CFM's on staff	LFA is a CFM	15	
Sanger	2	2	(1) Developer must conduct a study to define BFE and floodway in Zone A. (2) EC required prior forming/pouring lowest floor (3) Detention is required	LFA is a CFM	1	
San Jacinto Co.		0	(1) Developer must conduct a study to define BFE in Zone A. (2) County requires Elevation Certificate prior forming/pouring lowest floor and when construction is complete	LFA is a CFM	1	
San Marcos		1	(1) Developer must establish BFE and floodway boundary in Zone A (however the only Zone A areas are unpopulated) (2) Detention is required (3) City requires Elevation Certificate prior forming/pouring lowest floor; when construction is completed and prior to CO. (4) San Marcos is CRS 7; Four (4) CFM's on staff	LFA is a CFM	4	7
San Patricio Co.		2	San Patricio County requires all development, regardless of zone, to be elevated a minimum of 18" above NG. (1) Developer must conduct a study to define BFE and Floodway in Zone A for both existing and fully developed conditions. (2) Detention is required for new construction. (3) Developer must mitigate impacts (NAI) upstream and downstream. (4) Development in Zone X must be elevated a minimum of 18" above NG or the crown of the nearest street (5) EC is required prior to forming/pouring lowest floor and when construction is completed.	LFA is a CFM	3	
San Saba County		0	minimum NFIP			

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Santa Fe	1	1	(1) Developer must conduct a study to define BFE and floodway in Zone A. (2) Detention is required (3) EC required when construction is completed and prior to CO	LFA is a CFM	1	
Seabrook		1	(1) Developer must conduct a study to define BFE and Floodway prior to permit (2) New construction in Zone X must be elevated a minimum of 1' above the adjacent A Zone BFE (2) No fill allowed in floodway. (3) City requires Elevation Certificates prior forming/pouring lowest floor; when construction is completed and prior to CO. (4) City is CRS 7;	LFA is a CFM	4	7
Seagoville		2	EC required when construction is completed			
Sealy	1	1	(1) New construction must be elevated: +1' above BFE; 12" above curb; or 18" above natural grade whichever is higher. (2) Developer must conduct H&H study to defibne BFE in Zone A. (3) Detention is required to mitigate the impact of development in SFHA. (4) New construction in Zone X must be elevated a minimukm of 18" above NG or 12" above curb whichever is higher. (5) EC required prior to forming/pouring lowest floor; after construction and prior to CO.(6) "Zero Rise" downstream of development in Allen's Creek watershed. (7) City has GIS mapping available on line.	LFA is a CFM		
Seguin	1	1	(1) Developer must conduct a study to define BFE and Floodway in Zone A for both existing and fully developed conditions. (2) Detention is required for new construction. (3) Developer must mitigate downstream impacts (4) Fences constructed in Floodway must be breakaway and cabled to prevent floating away (5) EC is required prior to forming/pouring lowest floor; when construction is completed and prior to CO..	LFA is a CFM	2	
Selma		0	(1) Detention is required (2) EC required when construction is completed and prior to CO	LFA is a CFM	1	
Seven Points		3				
Shephard		0	(1) Developer must conduct a study to define BFE in Zone A prior to permit (2) EC is required prior to forming/pouring lowest floor and prior to CO.	LFA is a CFM	1	

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Sherman		2	(1) Developer must conduct a study to define BFE in Zone A prior to permit (2) On-site detention is required for new construction. (3) No fill is allowed in SFHA without mitigation (4) EC is required prior to CO.	LFA is a CFM	1	
Shoreacres		1' and 3'	(1) Non-city structures must be elevated +1' above BFE. (2) City structures and projects must be elevated +3' above BFE. (3) The entire city is either Zone AE or VE and no Zone X areas. (4) City identified a Storm Surge Zone" where no fill without a special permit and structures must be built to Zone V standards (5) EC required prior to framing/pouring lowest floor; when construction is completed; and prior to CO.	LFA is a CFM	1	9
Simonton		1	1 foot above BFE or 1 foot above street elevation whichever is higher. Elevation Certificate is required after construction.	Pending change - Elevation Certificates will be required - before pour or lowest floor framed in and after construction.		
Slaton		1	City of Lubbock provides technical assistance			
Smith County	2	2	(1) Developer must conduct a study to define BFE and Floodway in Zone A. (2) No fill in floodplain or floodway without mitigation. (3) New construction in Zone X must be elevated a minimum of 2.0' above natural grade or crown of nearest street. (4) EC is required when construction is completed and prior to CO. County has 2 CFM's	LFA is a CFM	2	
Southlake	2	2	(1) Developer must conduct a study (existing and fully developed conditions) to define the BFE and floodway in Zone A prior to permit (2) On-site detention is required for new construction. (3) No fill is allowed in SFHA without mitigation (4) Developer must mitigate downstream impacts of development (5) EC is required prior framing/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	
Southside Place		0	1 or 1.5			

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Spring Valley		1	(1) Developer must conduct a study to define BFE in Zone A. (2) City must comply with HCFCD higher standard requirements (3) No fill in floodplain or floodway without mitigation. (3) New construction in Zone X must be elevated a minimum of 1.0' above natural grade or crown of nearest street. (4) EC is required before framing/pouring lowest floor; when construction is completed; and prior to CO.	LFA is a CFM	1	
Stafford		1.5	(1) Critical Facilities must be elevated 3' above the BFE or to the 500-year flood elevation whichever is higher.			
Star Harbor		3	EC required when construction is completed			
Stephenville		0	(1) Developer must conduct a study to define BFE in Zone A. (2) No fill in floodplain or floodway without mitigation (detention). (3) New construction in Zone X must be elevated a minimum of 1.0' above natural grade or crown of nearest street. (4) EC is required before framing/pouring lowest floor and prior to CO.	LFA is a CFM	2	
Sugarland		1' above top of curb or 1' above elevation in front of house whichever is greater, regardless of BFE	Sugarland is CRS 7. City is a FEMA Cooperative Technical Partner (CTP)	LFA is a CFM	1	7
Sunset Valley		0	Sunset Valley is CRS 8		1	8
Sweetwater		0	Sweetwater is CRS 9		1	9
Tarrant County		2	(1) Work in floodplain may require a engineering study to ensure adjacent property owners won't be affected by construction and/or development in the floodplain. This is determined on a case by case basis and is applicable to all zones. (2) Strict compliance to "no rise" in FW (3) On-site detention and mitigation of downstream impacts is required (4) EC required when structure is completed. (5) Approval of CRS application is pending	LFA is a CFM	1	
Taylor Lake Village		0	Taylor Lake Village is CRS 10			10
Temple		1	(1) Developer must conduct a study to define BFE in Zone A. (2) No fill in floodplain or floodway without mitigation (detention). (3)Setback from floodway boundary required	LFA is a CFM	7	
Terrell		2	(1) City has posted FIRM's and Preliminary DFIRM's on website in GIS format (2) EC required when construction is completed.			

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Texarkana		1	(1) In Zone A the developer must submit a study showing BFE and Floodway based on fully developed watershed. (2) No development allowed in the floodway (3) EC required prior to issuing CO.	LFA is a CFM	1	
The Colony	2	2	(1) Developer must conduct a study and establish the BFE and floodway in Zone A, (2) No development allowed in the floodway. (3) Drainage study required for Zone X development (4) Elevation certificate required when structure is completed and prior to CO, (4) Cannot increase velocities above 6 fps.	LFA is a CFM	1	
Tiki Island	1	1	(1) Developer must establish BFE in Zone A. (2) EC is required prior to framing/pouring lowest floor, when construction is completed and prior to CO.	LFA is a CFM	1	8
Tomball		1.5	(1) Lowest floor of new construction must be a minimum of 12" above nearest roadway centerline or top of rim of nearest sanitary or storm sewer manhole, whichever is highest. (2) Detention is required. (3) EC required prior to pouring lowest floor and before CO. (4) City has Impact Fee System (5) two (2) CFM's on staff.	LFA is a CFM	2	
Tom Green County		0	(1) Developer must establish BFE in Zone A. (2) Developer must mitigate all fill placed in floodway. (3) EC is required prior to framing/pouring lowest floor, when construction is completed and prior to CO. One (1) CFM on staff	LFA is a CFM	1	
Travis County		1	(1) Developer must establish BFE in Zone A. (2) Developer must mitigate all fill placed in floodway. (3) Development in Zone X must be elevated a minimum of 1' above NG and crown of nearest street (4) EC is required when construction is completed and prior to CO.	LFA is a CFM	1	
Tyler	1	1	(1) New construction must be elevated the higher of +1' existing conditions or +1' fully developed conditions. (2) Developer must establish floodway and BFE based on both existing and fully developed conditions. (3) EC required prior to forming/pouring lowest floor; when construction is complete and prior to CO. (4) A 6% City Storm Water Management surcharge added to water/sewer bills.	LFA is a CFM	3	
Tyler County	1	2	(1) Developer must establish BFE and floodway in Zone A. (2) Developer must mitigate downstream impacts (3) EC is required prior to forming/pouring lowest floor and prior to CO.			

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Uvalde		2	(1) New construction must be elevated a minimum of 2' above BFE. (2) Developer must conduct a study to establish the BFE and floodway in Zone A based on existing watershed conditions (3) No fill in floodway without mitigation. (4) In Zone X new construction must be elevated 2' above natural grade or crown of nearest street (5) EC required prior to framing/pouring lowest floor.			
Ushler County		2	Revised ordinance in 2010			
Van Zant County		2	Revised ordinance in 2010			
Victoria		1	(1) City Drainage ordinance requires 1' freeboard (2) Developer must establish BFE and Zero rise Floodway in Zone A. (3) Detention is required. (4) Development in Zone X must be elevated a minimum of 1' above NG and above the crown of the nearest street (5) EC is required after construction is completed and before CO. Two (2) CFM's on staff.	LFA is a CFM	2	
Victoria County		0	(1) Developer must establish BFE and floodway in Zone A. (2) Detention required - Developer must mitigate all fill placed in SFHA and floodway. (3) EC is required prior to forming/pouring lowest floor, when construction is completed and prior to CO. One (1) CFM on staff	LFA is a CFM	1	
Waco		1				
Waller		1				
Waller County	1.5	1.5	(1) Developer must establish BFE in Zone A. (2) Developer must mitigate all fill placed in floodway. (3) EC is required before forming/pouring lowest floor and when construction is completed.			
Washington County		0	(1) Developer must establish BFE in Zone A for proposed subdivisions. (2) Developer must mitigate downstream impacts (3) EC is required before forming/pouring lowest floor and when construction is completed.	LFA is a CFM	1	
Weatherford	2	2	(1) Developer must establish BFE and floodway in Zone A (2) Developer must mitigate downstream impacts (detention required) (3) EC is required before forming/pouring lowest floor and when construction is completed.			

TFMA 2014 Higher Standards Survey
 (Freeboard = Finished Floor Elevation above BFE)

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Webb County	1	1	(1) Developer must conduct a study, based on fully developed watershed conditions, to identify BFE and Floodway boundary in Zone A. (2) Developer must mitigate all fill placed in floodplain and floodway. (3) Both onsite and regional detention required (4) Developer must setback from Floodway boundary and mitigate downstream impacts (5) EC is required before forming/pouring lowest floor; when construction is completed; and prior to CO. (6) County withholds public utility connections until structure is compliant with FP development requirements (7) Four (4) CFM's on staff	LFA is a CFM	4	
Webster		1				
Westlake	2	*see notes	EC or report must be submitted by a PE demonstrating permit compliance.			
West Lake Hills		+1 recommended	City adopted Standard Ordinance but recommends that new construction be elevated +1 above BFE			
West Orange		1	Developer must establish BFE and Floodway in Zone A. EC is required before CO.			
West University Place		0	(1) mitigation required for fill placed in floodplain and floodway (2) EC required prior to forming/pouring lowest floor and prior to CO	LFA is a CFM	1	
Wharton	1	1	(1) New construction in Zone X must be +1' above curb or adjacent grade whichever is higher. (2) Detention required to mitigate fill/development (3) Drainage plan required for new development that meets Wharton County Drainage Criteria (4) EC required prior to forming; when structure is completed and prior to CO. (5) Wharton has FEMA approved all hazards and Flood Mitigation plans.	LFA is a CFM	1	8
Wharton County		1	(1) Detention required in new subdivisions.(2) EC required prior to pouring lowest floor and when structure is completed. (3) FP Permits are cross referenced to 911 Addressing. (4) Wharton County has FEMA approved "all-hazards" Mitigation Plan and Flood Mitigation Plan.	LFA is a CFM	1	

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Community or County Name	Feet above Fully Developed BFE	Feet above Existing BFE	Special Notes	Is LFA a CFM?	CFM's on staff	CRS Rating
Wichita County	1	1	(1) Developer must establish floodway and BFE in Zone A (2) Development in Zone X must be elevated a minimum of 1' above NG or crown of nearest street. (3) EC required before forming/pouring lowest floor, when construction is complete and before CO. (4) 911 address must be assigned prior to permit. (5) Public Works must verify road culvert size and oversee installation. (6) County has approved Mitigation Plan.	LFA is a CFM	1	
Wichita Falls		1	(1) Developer must establish floodway and BFE in Zone A (2) Detention is required for residential in excess of 2 acres and commercial in excess of 1 acre. (3) EC required before forming/pouring lowest floor, when construction is complete and prior to CO. (4) Wichita Falls has a FEMA -approved all hazards Mitigation Plan (5) Wichita Falls is CRS 8.		1	8
Williamson County		1	(1) In Zone A, the Developer must conduct a study to determine BFE. (2) No fill allowed in SFHA w/o mitigation. (3) Onsite detention required (4) Developer must mitigate downstreams impacts of development. (5) New construction in Zone X must be elevated 1' above natural grade or crown of nearest street (6) Plats that include a SFHA with DA in excess of 64 acres must show 100-year boundary. (7) EC is required when structure is completed.	LFA is a CFM	3	
Willis		0	(1) Developer must establish floodway and BFE in Zone A (2) Onsite Detention is required. (3) Developer must mitigate any downstream impacts (4) Development in Zone X must be elevated a minimum of +1' above NG or crown of nearest street (5) EC required before forming/pouring lowest floor, when construction is complete and prior to CO.	LFA is a CFM	1	
Wise County	2	2	(1) Developer must establish BFE and floodplain boundary in Zone A (2) Detention is required in Development Rules and regulations (3) Developer must prevent post development runoff from exceeding predevelopment runoff (4) One CFM on staff	LFA is a CFM	1	
Woodville		1				
Yoakum		1	(1) Developer must establish floodplain and BFE in Zone A (2) EC required when structure is completed and prior to CO (3) two CFMs on staff	LFA is a CFM	2	