CITY OF GRAND PRAIRIE AND ELLIS COUNTY
FLOODPLAIN DEVELOPMENT PERMIT (FDP) APPLICATION – PART 1
(Grand Prairie Unified Development Code (UDC) – Article 15)
January 2020

To be completed by Owner and Owner's Authorized Representative (if applicable) and submitted to the Floodplain Administrator. Attach additional pages as necessary.

1. **APPLICANT INFORMATION**

   Property Owner Name: _____

   Project Name: _____

   Physical Address of Property: _____

   Mailing Address of Property Owner: _____

   City/County:_____

   Telephone:_____

   E-Mail:_____

   Engineer of Record: _____

   Project Size (total acres): _____

   Owner's Authorized Representative: *Identify person knowledgeable of and authorized to respond to questions concerning data provided in this application.*

   Name of Owner's Authorized Representative (if applicable): _____
   _____

   Relationship to Property Owner: _____

   Mailing Address: _____
   _____

   Telephone:_____

   E-Mail: _____

2. **LOCATION MAP:** ***Provide a map*** *clearly identifying the Special Flood Hazard Area and location of work to be accomplished. Provide a general description of the project's location, including street address, nearest cross-street, legal description (block/lot/addition/etc.), and impacted water body(s).*

   _____
   _____
   _____

3. FEMA FLOODPLAIN INFORMATION

FEMA FIRM Map Number: _____

Effective Date: _____

FEMA Zones affected (*Zone A, AE, Shaded Zone X*): _____

Is there a defined floodway in the project area?   Yes ☐ No ☐
If "Yes", see attached permit conditions.

Is a Conditional Letter of Map Revision (CLOMR) required? Yes ☐ No ☐
If "Yes", when is construction proposed to be completed? _____

Is a Letter of Map Revision (LOMR) required?   Yes ☐ No ☐
If "Yes", see attached permit conditions.

Is a Letter of Map Revision by Fill (LOMR-F) required?   Yes ☐   No ☐
If "Yes", see attached permit conditions.

Total number of acres in floodplain: _____

Total number of lots in floodplain: _____

4. PROPOSED PROJECT

Name of development or subdivision and indicate current zoning: *(as it appears on final plat on which the lowest floor elevations and base flood elevations are listed)*

_____

Proposed Use: *(check all appropriate categories)*

☐ Private Single dwelling(s)

☐ Private Multi-dwelling(s)

☐ Public

☐ Commercial

☐ Industrial

☐ Other (explain): _____

_____

Proposed Activity: *(check all appropriate categories)*

☐ Excavation

☐ Bridge or Culvert Crossing

☐ Aerial Pipeline Crossing

☐ Fill

☐ Levee

☐ Other (explain): _____

_____

To what extent will the watercourse *(stream, river, drainage ditch, etc.)* **be altered or relocated?** *(Attach additional pages, if needed.)*

_____

_____

_____

If subdivision or other development exceeds 30 lots or 3 acres, whichever is less, the applicant must provide lowest floor elevations (LFE), 100-year (1% annual chance) base flood elevations (BFE) for existing conditions and 100-year (1% annual chance) BFE for fully developed conditions in the table provided below:

Block	Lot	Lowest Floor Elevation (LFE)	BFE for Existing Conditions	BFE for Fully Developed Conditions	LFE Minus BFE for Existing Conditions	LFE Minus BFE for Fully Developed Conditions
* Lowest Floor Elevations must be the greater of two (2) feet above existing 100-year (1% annual chance) flood or one (1) foot above fully developed 100-year (1% annual chance) flood.						

FDP Tracking Code:_____

5. ADDITIONAL CONSIDERATIONS

A. Is a Section 10 or Section 404 U.S. Army Corps of Engineers (USACE) Permit required?
Yes ☐   No ☐   If yes, date of submittal to USACE: _____
Date of approval: _____
If the answer is "yes", you must provide the City a copy of these permits with this application.

B. Is project within the review area of the Trinity River Corridor (CDC)? Yes ☐ No ☐
If yes, CDC Tracking Code: _____
Date of Approval: _____

C. Is a Texas Commission on Environmental Quality (TCEQ) permit required? Yes ☐ No ☐
Name of Permit: _____
Date of Approval: _____
If the answer is "yes", you must provide the City a copy of the TCEQ permit(s) with this application.

D. Does this project require a CLOMR or CLOMR-F? Yes ☐ No ☐
If yes, is the project in compliance with the Endangered Species Act?   Yes ☐ No ☐
Date of Approval: _____
If the answer is "yes", you must provide the City a copy of the CLOMR or CLOMR-F with this application.

E. Is a FEMA Elevation Certification required?   Yes ☐ No ☐
If "Yes", what is the lowest floor elevation?_____
If the answer is "yes", you must provide the City a copy of the Elevation Certificate following construction and prior to obtaining a Certificate of Occupancy.

F. Have all other City of Grand Prairie permits been obtained?   Yes ☐ No ☐   In Progress ☐
If "Yes", please list the City permits already obtained? _____
_____

G. Are plans released for construction on file with the City? Yes ☐ No ☐
Date of Release: _____

6. PERMIT CONDITIONS

1. Contractor shall have plans released for construction from the City, prior to commencing any site work.

2. Contractor shall acquire all other applicable City permits prior to commencing construction, including clearing and grubbing, earthwork, construction, building, mining, etc.

3. Flood study demonstrating that the requirements of the City of Grand Prairie United Development Code (UDC) are met and shall be accepted and reviewed by the City prior to the placement of fill in the floodplain or drainage ways. Conditional flood map revisions (CLOMR or CLOMR-F) shall be approved by FEMA prior to placing fill in FEMA effective floodplain.

4. Fill for new construction shall be compacted to 95% standard proctor density at plus or minus 3% of optimum moisture content, unless specified otherwise on plans released for construction by the City.

5. Adjoining property owners shall not be adversely affected by increased velocities, significantly increased flows, increased flood elevations, sediment, erosion, etc.

6. For excavation and/or mining, see Public Works Department for a Mining Permit and Road Use Permit. Additional plans and permits will also have to be submitted to the Floodplain Administrator prior to the release of the FDP and CDC (when required) permits.

7. For new residential structures, the lowest floor elevation (including basement and garage) shall be at or above the lowest floor elevation specified on the plat. If there is not a lowest floor elevation (LFE) specified on the plat, the structure shall be elevated so as to be a minimum of two feet above the FEMA 100-year (1% annual chance) base flood elevation or one foot above the water surface level for the fully urbanized conditions 100-year (1% annual chance) flood. A building permit shall be acquired from the Chief Building Official prior to commencing any work on structures.

8. For new nonresidential structures, the building shall be elevated as specified above or floodproofed to withstand the flood depths, pressures, velocities, impact and uplift forces associated with the fully urbanized conditions 100-year (1% annual chance) flood. The foundation of the structure and materials shall be able to withstand the pressures, velocities and impact forces associated with the fully urbanized conditions 100-year (1% annual chance) flood. FEMA Technical Bulletins 3-93 and 7-93 must be followed for nonresidential floodproofing projects.

9. All utility lines shall be installed as to minimize damage from potential flooding.

10. Upon completion of construction, owner shall submit an Elevation Certificate, as-built plans, and certification from a Professional Engineer that floodproofing requirements have been met (if floodproofing was allowed).

SPECIAL CONDITIONS:

_____

_____

_____

NOTE: Proof of financial capability and fiscal responsibility may be required by the City prior to release and issuance of this permit.

I / WE HEREBY AGREE TO COMPLY WITH THE PERMIT CONDITIONS OF THIS PERMIT, THE CITY OF GRAND PRAIRIE'S FLOODPLAIN MANAGEMENT STANDARDS, (UDC ARTICLE 15) INCLUDING TO MINIMIZE POTENTIAL FLOOD DAMAGE AND RELATED STORMWATER RUNOFF PROBLEMS, AND TO CONFORM TO ALL OTHER RELATED CITY, STATE AND FEDERAL REGULATIONS TO CONSTRUCT THIS PROPOSED DEVELOPMENT.

_____   _____   _____
(Printed Name of Owner)   (Signature)   (Date)

_____   _____   _____
(Printed Name of Auth. Rep., if applicable)   (Signature)   (Date)

Period of Permit: This permit shall expire one year from the date of issue, unless specified otherwise below.

CITY OF GRAND PRAIRIE APPROVAL:
Application Fee

Amount:_____Received By:_____Date: _____
                                                        (Printed Name)

Title: _____   _____
                                                                          (Signature)

Floodplain Development Permit

Released By:_____   Date: _____
                   (Printed Name)

Permit Expiration Date: _____

Title: _____   _____
                                                                          (Signature)

ELLIS COUNTY APPROVAL:
Application Fee

Amount:_____Received By:_____Date: _____
                                                        (Printed Name)

Title: _____   _____
                                                                          (Signature)

Floodplain Development Permit

Released By:_____   Date: _____
                   (Printed Name)

Title: _____   _____
                                                                          (Signature)

If new buildings are proposed, the owner must obtain a Building Permit from the City's Chief Building Official by separate permit.

PERMIT FEES: Per UDC Article 22

cc: City of Grand Prairie, Development Coordinator   City of Grand Prairie, Inspector Supervisor
        City of Grand Prairie, City Engineer   City of Grand Prairie, Floodplain Administrator
        Ellis County Engineer   Applicant

CITY OF GRAND PRAIRIE AND ELLIS COUNTY

FLOODPLAIN DEVELOPMENT PERMIT (FDP) APPLICATION – PART 2
(Grand Prairie Unified Development Code (UDC) – Article 15)
2020 Update

MODELING

Part 2 of the FDP application is required to be prepared, signed, and sealed by a licensed professional engineer in the State of Texas. Electronic copies of the associated models must be provided to the City for review.

Typically, the U.S. Army Corps of Engineer's hydrologic model Hydrologic Engineering Center River Analysis System (HEC-RAS) is used to determine the impacts of the proposed project on the base flood elevation and valley storage. The FEMA effective model should be used to determine the potential impacts of the proposed project for the existing conditions scenario. The ultimate conditions model should be based on the U.S. Army Corps of Engineers model for the Corridor Development Certificate (CDC) or the City's ultimate conditions model. The engineer may obtain the base models from the City's Floodplain Administrator.

VALLEY STORAGE MITIGATION:

Describe hydraulic mitigation used to compensate for project valley storage impacts. (Use a separate attachment if necessary.)

EXISTING 100-YEAR (1% ANNUAL CHANCE) FLOOD

Hydrologic and Hydraulic Impact		Pre-Project	Post-Project	Change
Plan File Name:		*.p___	*.p___	N/A
Discharge				
Cross Section	Downstream Boundary of Project (DB)	cfs	cfs	cfs
	Upstream Boundary of Project (UB)	cfs	cfs	cfs
Channel Velocity				
Cross Section	Downstream Boundary of Project	fps	fps	fps
	Upstream Boundary of Project	fps	fps	fps
Water Surface Elevation (NGVD)				
Cross Section				
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	Downstream Boundary of Project	ft	ft	ft
	Mid-Project	ft	ft	ft
	Upstream Boundary of Project	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
Project Land in Floodplain		ac	ac	ac
Project Land in Valley Storage		ac-ft	ac-ft	ac-ft

ULTIMATE 100-YEAR (1% ANNUAL CHANCE) FLOOD

Hydrologic and Hydraulic Impact		Pre-Project	Post-Project	Change
Plan File Name:		*.p___	*.p___	N/A
Discharge				
Cross Section	Downstream Boundary of Project (DB)	cfs	cfs	cfs
	Upstream Boundary of Project (UB)	cfs	cfs	cfs
Channel Velocity				
Cross Section	Downstream Boundary of Project	fps	fps	fps
	Upstream Boundary of Project	fps	fps	fps
Water Surface Elevation (NGVD)				
Cross Section				
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	____ ft downstream of DB	ft	ft	ft
	Downstream Boundary of Project	ft	ft	ft
	Mid-Project	ft	ft	ft
	Upstream Boundary of Project	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
	____ ft upstream of UB	ft	ft	ft
Project Land in Floodplain		ac	ac	ac
Project Land in Valley Storage		ac-ft	ac-ft	ac-ft

Application is hereby submitted for a City of Grand Prairie and Ellis County Floodplain Development Permit. I certify that I am knowledgeable of the information contained in this application, and that to the best of my knowledge and belief, this information is true, complete and accurate.

Professional Engineer in the State of Texas:

_____   _____   _____
(Printed Name)   (Signature)   (Date)

_____
(Title)

_____
Professional Engineer/License Number/Seal or Stamp