FDP Number: _____

CITY OF BENBROOK
FLOODPLAIN MODIFICATION AND DEVELOPMENT PERMIT (FDP) APPLICATION — PART 1

(Chapter 15.40 – Benbrook Municipal Code)

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

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: _____

1. **LOCATION MAP**: ***Provide a map <u>clearly</u> 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).*

_____

_____

_____

FDP Number: _____

2. FEMA FLOODPLAIN INFORMATION

FEMA FIRM Map Number: _____

Effective Date: _____

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

Is there a defined floodway within the property limits? Yes No
If "Yes", see attached permit conditions.
Is a Conditional Letter of Map Revision (CLOMR) required? Yes No
If "Yes", has the CLOMR been approved by FEMA? Yes No
FEMA Case #_____ Date Approved: _____
If "Yes", when is construction proposed to start? _____
If "Yes", when is construction proposed to be completed? _____

Is a Letter of Map Revision (LOMR) or 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: _____

3. PROPOSED PROJECT

Name of **development or subdivision** and indicate **current** zoning: *(as it appears on final plat on which the finished 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): _____

_____

FDP Number: _____

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.)*

_____

_____

_____

The applicant must provide finished floor elevations (FFE), 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:

Lot	Block	Finished Floor Elevation (FFE)	BFE for Existing Conditions	BFE for Fully Developed Conditions	FFE Minus BFE for Existing Conditions	FFE Minus BFE for Fully Developed Conditions
Finished Floor Elevations must be the greater of two (2) feet above existing 100-year (1% annual chance) flood						

FDP Number: _____

4. 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 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.

C. 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.

D. 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.

E. Have all other City of Benbrook permits been obtained? Yes No In Progress
If "Yes", please list the City permits already obtained? _____
_____

F. Include the erosion hazard setback within engineered plans along creek/river/receiving body of water.
Notes: _____
_____

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

FDP Number: _____

5. 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 Benbrook's Floodplain Development Ordinance 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, increased flows, increased flood elevations, sediment, erosion, etc.
6. For new residential structures, the finished floor elevation (including basement and garage) shall be at or above the finished floor elevation specified on the plat. If there is not a finished floor elevation (FFE) 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. A building permit shall be acquired from the Building Permits Department prior to commencing any work on structures.
7. 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.
8. All utility lines shall be installed as to minimize damage from potential flooding.
9. 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).
10. Owner shall submit final record drawings to the Floodplain Administrator to complete the close-out of this FDP.

SPECIAL CONDITIONS:

_____

_____

_____

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

FDP Number: _____

I/WE HEREBY AGREE TO COMPLY WITH THE PERMIT CONDITIONS OF THIS PERMIT, THE CITY OF BENBROOK'S FLOODPLAIN MANAGEMENT STANDARDS 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)

City of Benbrook Approval:

Application Fee (Chapter 1.12 – Benbrook Municipal Code)

Amount: _____ Received By: _____ Date: _____
(Printed Name)

Title: _____ _____
(Signature)

Floodplain Development Permit

Released By: _____ Date: _____
(Printed Name)

Permit Expiration Date: _____

Title: _____ _____
(Signature)

Reason for Denial: _____

_____

If new buildings are proposed, the owner must obtain a separate Building Permit from the Building Permit Department.

FDP Number: _____

CITY OF BENBROOK
FLOODPLAIN MODIFICATION AND DEVELOPMENT PERMIT (FDP) APPLICATION — PART 2

(Chapter 15.40 – Benbrook Municipal Code)

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.

The U.S. Army Corps of Engineer's hydraulic model program, Hydraulic Engineering Center River Analysis System (HEC-RAS) shall be used to determine the impacts of the proposed project in the base flood elevation and valley storage. The FEMA effective model shall be used to determine the potential impacts of the proposed project for the existing conditions scenario. The ultimate conditions model shall be based on the U.S. Army Corps of Engineers model.

VALLEY STORAGE MITIGATION

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

FDP Number: _____

EXISTING 100-YEAR (1% ANNUAL CHANCE) FLOOD

Hydrologic and Hydraulic Impact		**Pre-Project**	**Post-Project**	**Change**
Plan File Name:				
Discharge				
Cross Section	Downstream Boundary of Project (DB) - cfs			
	Upstream Boundary of Project (UB) - cfs			
Channel Velocity				
Cross Section	Downstream Boundary of Project (DB) - cfs			
	Upstream Boundary of Project (UB) - cfs			
Water Surface Elevation (NGVD) in feet				
Cross Section				
	____ ft downstream of DB			
	____ ft downstream of DB			
	____ ft downstream of DB			
	____ ft downstream of DB			
	Downstream Boundary of Project			
	Mid-Project			
	Upstream Boundary of Project			
	____ ft upstream of UB			
	____ ft upstream of UB			
	____ ft upstream of UB			
	____ ft upstream of UB			
Project Land in Floodplain – acres				
Project Land in Valley Storage – acre-ft				

FDP Number: _____

ULTIMATE 100-YEAR (1% ANNUAL CHANCE) FLOOD

Hydrologic and Hydraulic Impact		**Pre-Project**	**Post-Project**	**Change**
Plan File Name:				
Discharge				
Cross Section	Downstream Boundary of Project (DB) - cfs			
	Upstream Boundary of Project (UB) - cfs			
Channel Velocity				
Cross Section	Downstream Boundary of Project (DB) - cfs			
	Upstream Boundary of Project (UB) - cfs			
Water Surface Elevation (NGVD) in feet				
Cross Section				
	____ ft downstream of DB			
	____ ft downstream of DB			
	____ ft downstream of DB			
	____ ft downstream of DB			
	Downstream Boundary of Project			
	Mid-Project			
	Upstream Boundary of Project			
	____ ft upstream of UB			
	____ ft upstream of UB			
	____ ft upstream of UB			
	____ ft upstream of UB			
Project Land in Floodplain – acres				
Project Land in Valley Storage – acre-ft				

FDP Number: _____

Application is hereby submitted for a City of Benbrook 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: _____

Title: _____

Signature: _____

Date: _____

Professional Engineer/License Number/Seal or Stamp

FDP Number: _____

CITY OF BENBROOK
FLOODPLAIN MODIFICATION AND DEVELOPMENT PERMIT (FDP) APPLICATION — PART 3

(Chapter 15.40 – Benbrook Municipal Code)

FLOODPLAIN DEVELOPMENT PERMIT AMENDMENT/EXTENSION REQUEST

Authorized Representative. Person authorized by the property owner who is knowledgeable of this project and is able to respond to questions concerning data provided in this application.

Project Name: _____

Project Address: _____

Property Owner Name: _____

Telephone and e-mail of Owner: _____

Name of Owner's Representative: _____

Address of Authorized Representative: _____

Telephone and e-mail of Authorized Representative: _____

Explanation for Request:

_____ _____

Owner's/Authorized Representative's Signature) (Date)

Floodplain Administrator Action/Findings

(To be completed by Floodplain Administrator) Extension Request Granted? Yes No

Period of Extension – From: _____ To: _____

Approved By: _____ Date: _____