

- **Sec. 25-304. - Basis for establishing the regulatory flood area.**

(a)

The lands covered by the regulatory flood area are identified on a composite map or maps, known as the Regulatory Floodplain Map of Broken Arrow (RFMBA), prepared by the local administrator. The RFMBA utilizes the best available information for flood areas in each drainage basin. The RFMBA identifies both the base flood area and regulatory flood fringe area. The regulatory flood area will be identified as the following:

(1)

Those areas identified by the scientific and engineering report entitled "Flood Insurance Study" for Tulsa County Oklahoma and Incorporated Areas, dated October 16, 2012; for Tulsa County and Incorporated Areas dated August 3, 2009 for FEMA floodplain areas not updated with the 2012 FIS; and Wagoner County Oklahoma and Incorporated Areas, dated April 17, 2012; except that areas identified by the scientific and engineering report entitled "Flood Insurance Study" Wagoner County Oklahoma and Incorporated Areas, with a revised preliminary date of January 9, 2015 shall be the regulatory flood area only for areas within FIRM Panel 40145C0085J.

(2)

The areas identified by the city as regulatory ultimate urbanized floodplain in a scientific and engineering "master drainage plan" with accompanying maps and any revisions thereto. The above documents are hereby adopted and declared to be part of this chapter and are on file at the city engineer's office.

(3)

The most restrictive floodplain will be used in identifying the regulatory flood area.

(b)

The regulatory flood area, at locations where the point in question have a drainage area of over one square mile upstream, may be divided into the base flood area and the regulatory flood fringe area. The regulatory flood fringe area shall extend up to an approximate 40-acre contributing watershed cutoff point. The regulatory flood area shall be reserved for flood-tolerant uses as defined in section 25-317. Encroachments may be permitted in the regulatory flood fringe area, provided a floodplain development permit is obtained in accordance with section 25-307.

(c)

Any property owner or developer seeking a floodplain development permit in accordance with section 25-307 in areas where the regulatory flood area has not been established by governmental entity or is in FEMA Zone A, shall provide regulatory flood elevations and associated engineering data calculated by a licensed professional engineer as required by the local administrator.

(d)

All studies performed under the direction of an owner or developer shall make use of the best available data, and shall specifically include:

(1)

A determination of all elevations referenced to the North American Datum of 1983 for horizontal control and to the North American Vertical Datum of 1988 for vertical control;

(2)

A determination of the elevation of historic flooding, if such a historic flooding is in excess of the regulatory flood area.

(Ord. No. 2443, § I, 4-25-02; Ord. No. 2530, § II, 4-7-03; Ord. No. 3045, § I, 7-21-09; Ord. No. 3201, § I, 4-17-12; Ord. No. 3211, § I, 9-18-12; Ord. No. 3211(Corr.), § I, 10-2-12)

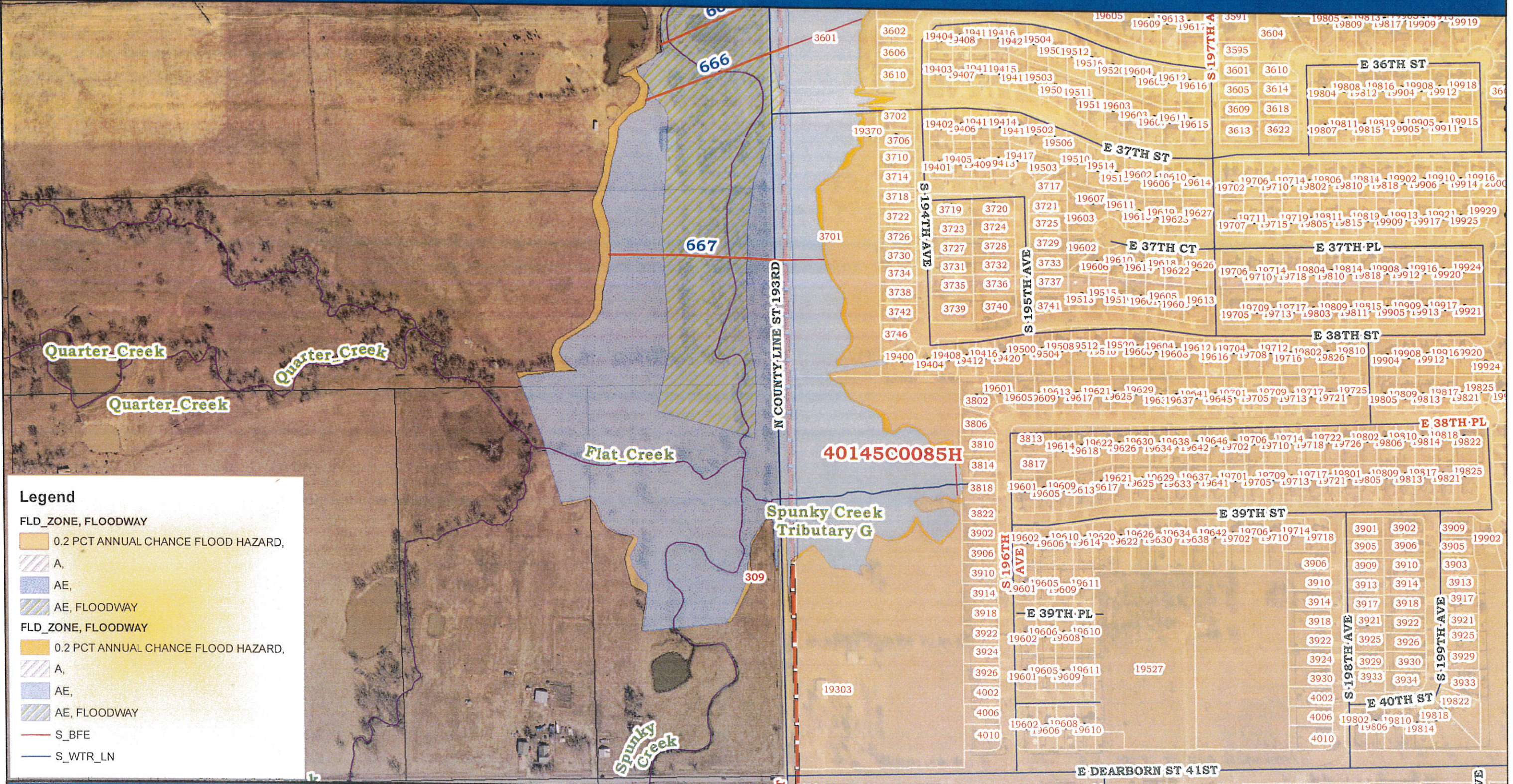
Current Effective Floodplain Boundaries

Tulsa, County Regulatory Flood Insurance Rate Maps August 3, 2009
Wagoner, County Regulatory Flood Insurance Rate Maps April 17, 2012
Portions of Tulsa, County Flood Insurance Rate Maps October 16, 2012



City of Broken Arrow, Oklahoma
Regulatory Floodplain

Tulsa, County New Spunky Creek Regulatory Flood Insurance Rate Maps
 Wagoner, County New Spunky Creek Regulatory Flood Insurance Rate Maps



Legend

FLD_ZONE, FLOODWAY

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD,
- AE,
- AE, FLOODWAY

FLD_ZONE, FLOODWAY

- 0.2 PCT ANNUAL CHANCE FLOOD HAZARD,
- AE,
- AE, FLOODWAY
- S_BFE
- S_WTR_LN

City of Broken Arrow
 Engineering & Construction

A City
 Where Opportunity Lives
 And Character Counts

Mapping Provided
 By BA GIS



FEMA DFIRMS FOR FLOOD
 INSURANCE RATE MAPS

0 90 180 360 540 720
 Feet

Broken Arrow Regulatory Floodplain

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Oklahoma State Plane North Zone (FIPS zone 3501). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA NINGS12
National Geodetic Survey
SSMC-3 #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Geo Information Systems Department of the University of Oklahoma and the Indian Nations Council of Governments (INCOG). Aerial background provided by the USDA Farm Service Agency's National Agriculture Imagery Program (NAIP) aerials flown in 2010.

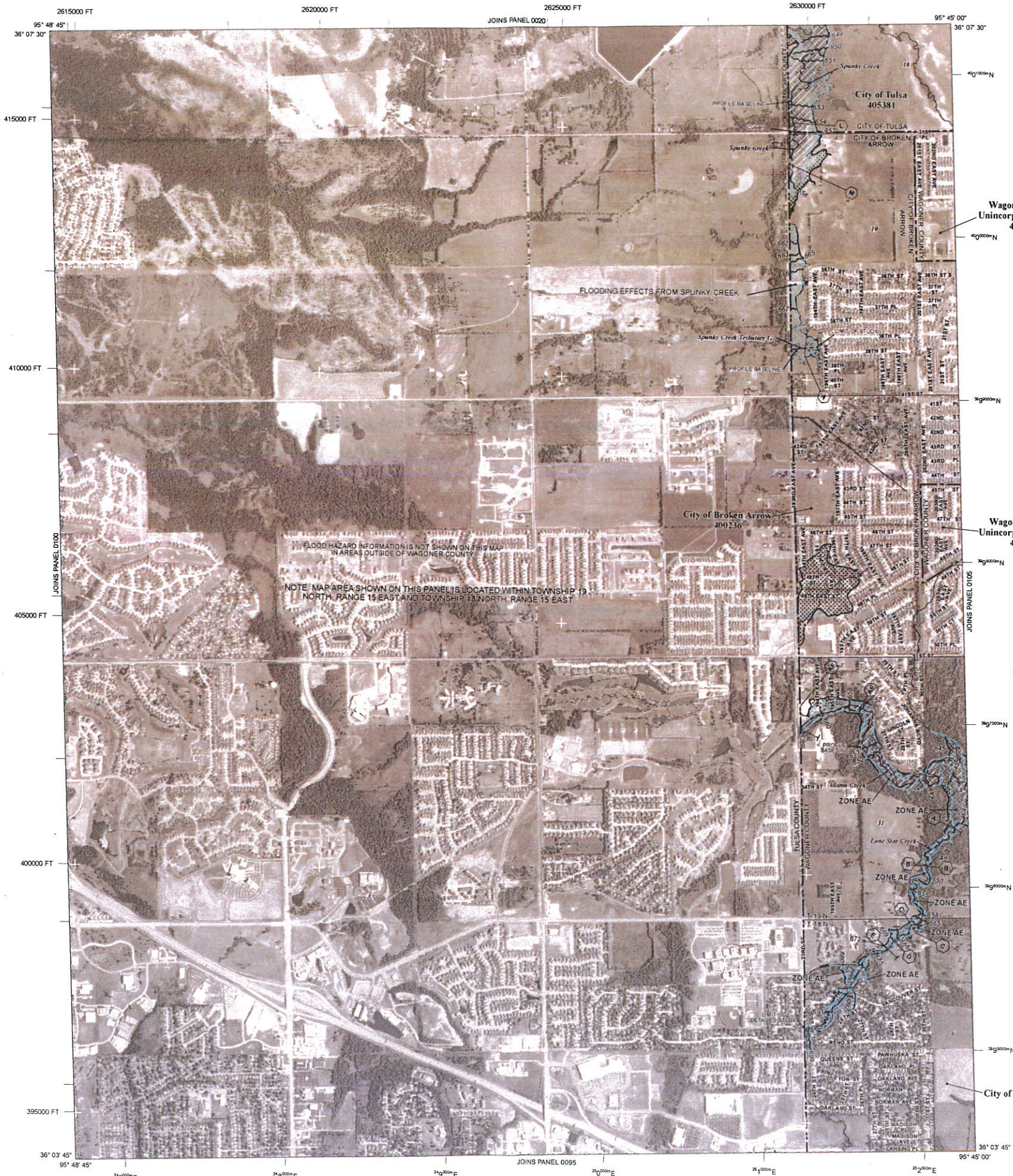
This map reflects more detailed and up-to-date stream channel configurations than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.



LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AV, VE, and V. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently deserted. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE AV** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with discharge areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
OTHER AREAS
ZONE D Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% Annual Chance Floodplain Boundary
- 0.2% Annual Chance Floodplain Boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
- Limit of Moderate Wave Action
- Base Flood Elevation line and value; elevation in feet*
(EL 987)
- Base Flood Elevation value where uniform within zone; elevation in feet*
- *Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- Culvert
- Bridge
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere.
- 3100000 FT
- 5000-foot ticks: Oklahoma State Plane North Zone (FIPS Zone 3501), Lambert Conformal Conic projection
- 1000-meter Universal Transverse Mercator grid values, zone 15N
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- MSL
- MAP REPOSITORIES
Refer to Map Repositories list on Map Index
- EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
April 17, 2012
- EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
- For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
- To determine if flood insurance is available in this community contact your insurance agent or call the National Flood Insurance Program at 1-800-338-6922.

NFP PANEL 0085J

FIRM
FLOOD INSURANCE RATE MAP
WAGONER COUNTY,
OKLAHOMA
AND INCORPORATED AREAS

PANEL 85 OF 525
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

| CONTAINS: | COMMUNITY | NUMBER | PANEL | SUFFIX |
|-----------|----------------|--------|-------|--------|
| | BROKEN ARROW | 400236 | 0085 | J |
| | CITY OF TULSA | 405381 | 0085 | J |
| | WAGONER COUNTY | 400215 | 0085 | J |

REVISED PRELIMINARY
JANUARY 9, 2015

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
40145C0085J
MAP REVISED

Federal Emergency Management Agency