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NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

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The AE Zone category has been divided by a Limit of Moderate Wave Action (LiMWA). The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LiMWA (or between the shoreline and the LiMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

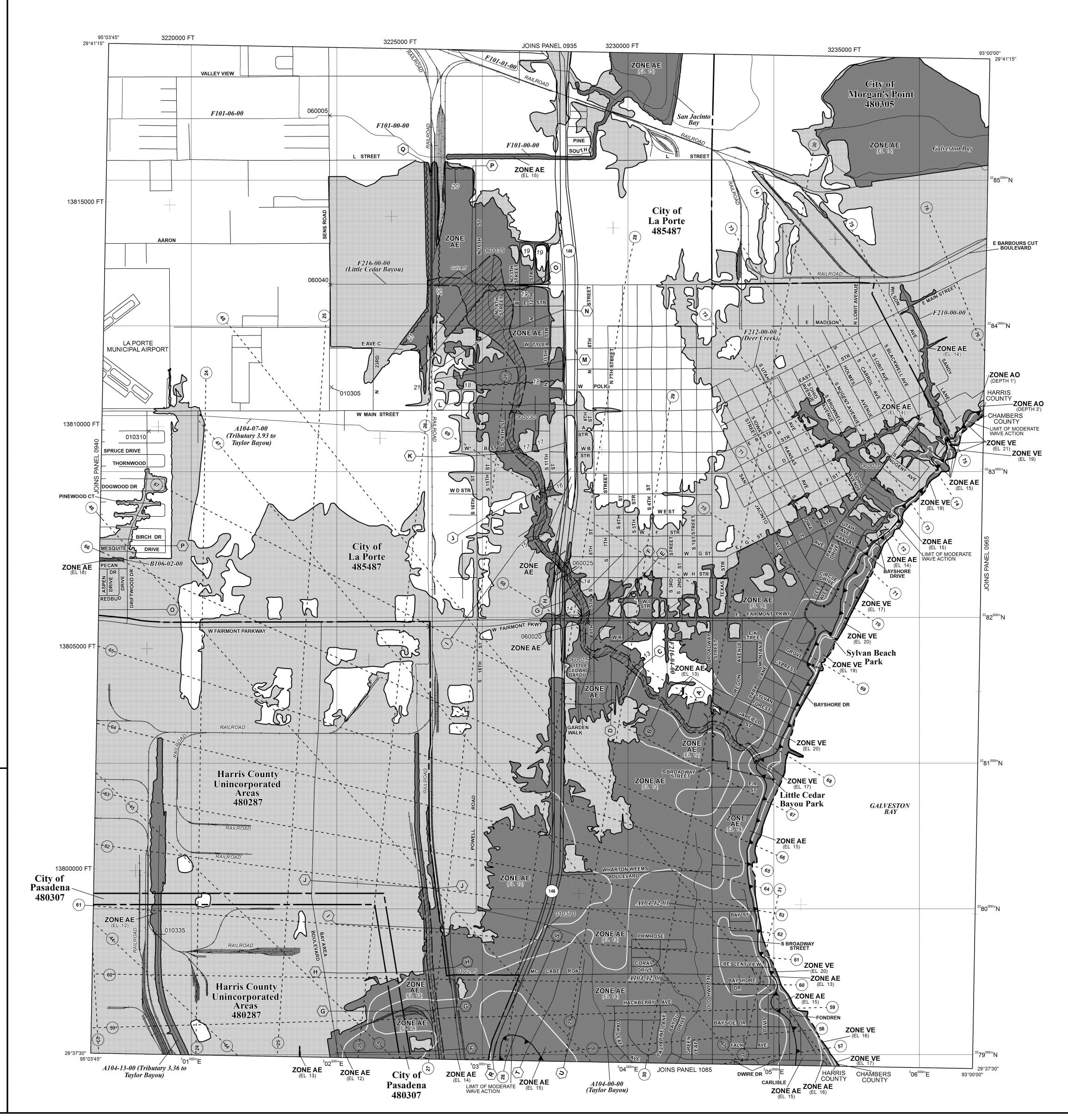
Contact the FEMA Map Information eXchange at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Information eXchange may also be reached by Fax at 1-800-358-9620 and their website at http://www.msc.fema.gov/.

If you have questions about this map or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/national-flood-insurance-program.

# Vertical Datum Adjustment due to subsidence is the 2001 adjustment.

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Some bridges and other structures shown on the detailed studied streams are not labeled. See corresponding flood profile for appropriate names.



## **LEGEND**

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual 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, A99, V, and VE. The Base Flood Elevation is the water-surface

No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood

elevation of the 1% annual chance flood.

ZONE V

ZONE X

ZONE X

ZONE D

\*\*\*\*\*\*\*\*\*\*\*

M1.5

Elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average

depths determined. For areas of alluvial fan flooding, velocities also

Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations

Coastal flood zone with velocity hazard (wave action); no Base Flood

Elevations determined. Coastal flood zone with velocity hazard (wave action); Base Flood

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

OTHER FLOOD AREAS

Elevations determined.

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain.

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.

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.

~~~ 513 ~~~ Base Flood Elevation line and value; elevation in feet\*

- Limit of Moderate Wave Action

Base Flood Elevation value where uniform within zone; elevation \* Referenced to the North American Vertical Datum of 1988

(A)——(A) Cross section Line

(23)----(23) Geographic coordinates referenced to the North American 87°07'45", 32°22'30"

Datum of 1983 (NAD 83), Western Hemisphere 1000-meter Universal Transverse Mercator grid values, zone 15N

5000-foot grid values: Texas State Plane coordinate system, 600000 FT

South Central zone (FIPSZONE 4204), Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of this DX5510 x

> MAP REPOSITORY Refer to listing of Map Repositories on Map Index

## EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP September 28, 1990

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

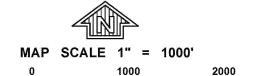
September 30, 1992 November 6, 1996 April 20, 2000 June 18, 2007

FOR REASON OF REVISION

SEE NOTICE TO FLOOD INSURANCE STUDY USERS IN THE FIS REPORT

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 1-800-638-6620.



PANEL 0945M

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, **TEXAS** 

AND INCORPORATED AREAS

PANEL 945 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**FIRM** 

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HARRIS COUNTY

MORGAN'S POINT, CITY OF PASADENA, CITY OF 480305 480307

480287 485487

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.



48201C0945M MAP REVISED

**JANUARY 6, 2017** 

MAP NUMBER

Federal Emergency Management Agency

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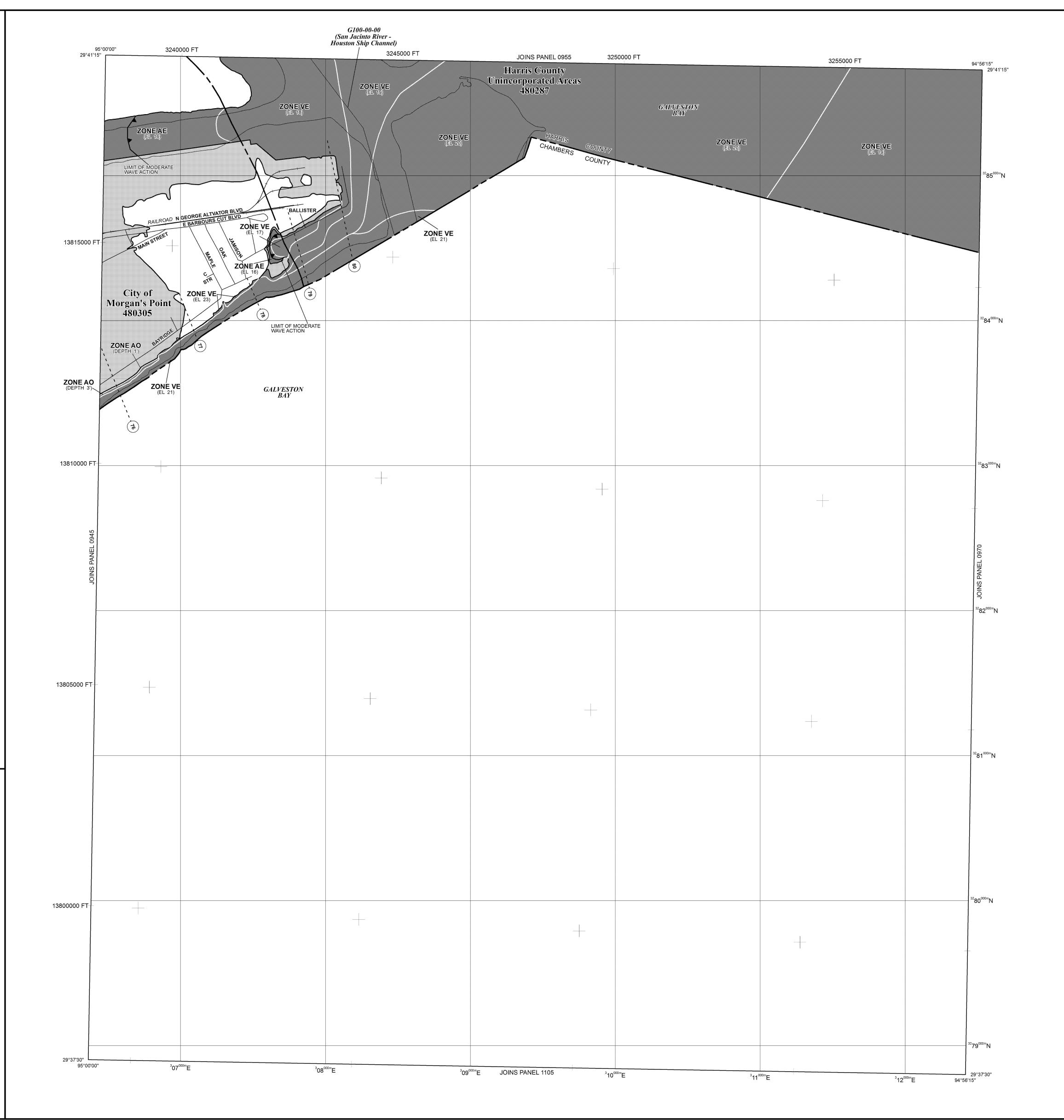
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**ZONE A** No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

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AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide

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Coastal flood zone with velocity hazard (wave action); no Base Flood

Elevations determined.

ONE VE Coastal flood zone with velocity hazard (wave action); Base Flood

Elevations determined.

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THER ELOOP AREAG

ZONE X Areas of 0.2% annual chai

ZONE V

ZONE X

ZONE D

\*\*\*\*\*\*\*\*\*\*\*

M1.5

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Floodway boundary
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Limit of Moderate Wave Action

Resp. Flood Flooration line and value

Base Flood Elevation line and value; elevation in feet\*

(EL 987)

Base Flood Elevation value where uniform within zone; elevation

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"N 1000-meter Universal Transverse Mercator grid values, zone 15N

5000-foot grid values: Texas State Plane coordinate system,

600000 FT 5000-foot grid values: Texas State Plane coordinate system, South Central zone (FIPSZONE 4204), Lambert Conformal Conic projection

DX5510 ×

Bench mark (see explanation in Notes to Users section of this FIRM panel)

River Mile
MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP

September 28, 1990 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

> September 30, 1992 November 6, 1996 April 20, 2000 June 18, 2007

FOR REASON OF REVISION
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MAP SCALE 1" = 1000'

500 0 1000 20 500 0 300

FIRM

FLOOD INSURANCE RATE MAP

HARRIS COUNTY, TEXAS

AND INCORPORATED AREAS

PANEL 965 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY

COMMUNITY NUMBER
HARRIS COUNTY 480287
MORGAN'S POINT, CITY OF 480305

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MAP NUMBER 48201C0965M

**MAP REVISED** 

**JANUARY 6, 2017** 

Federal Emergency Management Agency