

1 460 000 FEET

480 000 FFFT

DATUM INFORMATION

The projection used in the preparation of this map was the North Carolina State Plane (FIPSZONE 3200). The horizontal datum was the North American Datum of 1983, GRS80 ellipsoid. Differences in datum, ellipsoid, projection, or Universal Transverse Mercator zones used in the production of FIRMS for adjacent jurisdictions may result in slight positional differences in map features across jurisdictional boundaries. These differences do not affect the accuracy of this FIRM. All coordinates on this map are in U.S. Survey Feet, where 1 U.S. Survey Foot = 1200/3937 Meters.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. An average offset between NAVD 88 and the National Geodetic Vertical Datum of 1929 (NGVD 29) has been computed for each North Carolina county. This offset was then applied to the NGVD 29 flood elevations that were not revised during the creation of this statewide format FIRM. The offsets for each county shown on this FIRM panel are shown in the vertical datum offset table below. Where a county boundary and a flooding source with unrevised NGVD 29 flood elevations are coincident, an individual offset has been calculated and applied during the creation of this statewide format FIRM. See Section 6.1 of the accompanying Flood Insurance Study report to obtain further information on the conversion of elevations between NAVD 88 and NGVD 29. To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the North Carolina Geodetic Survey at the address shown below. You may also contact the Information Services Branch of the National Geodetic Survey at (301) **713-3242**, or visit its website at http://www.ngs.noaa.gov.

North Carolina Geodetic Survey 121 West Jones Street Raleigh, NC 27601 (919) 733-3836

http://www.ncgs.state.nc.us

County Average Vertical Datum Offset Table

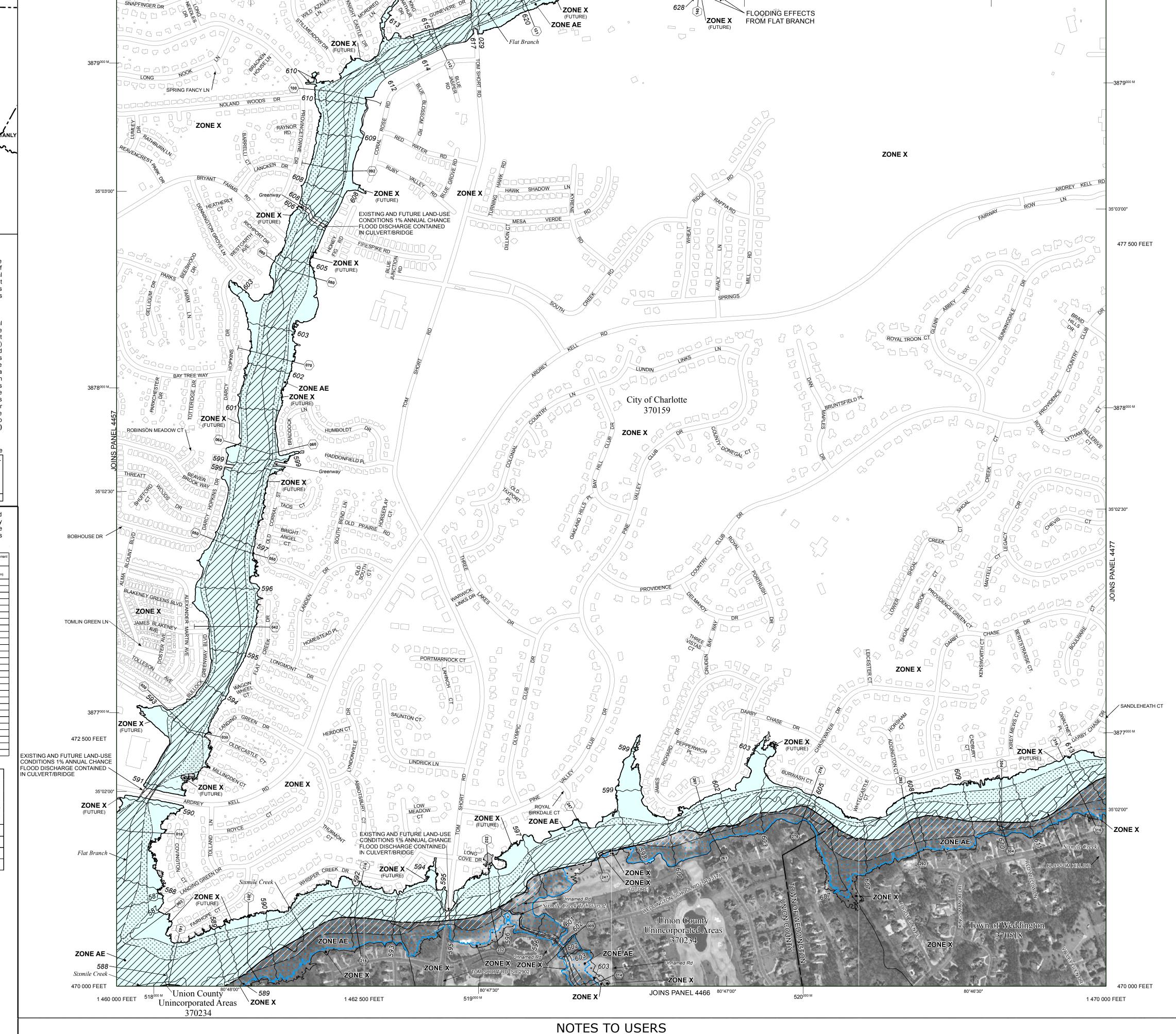
Example: NAVD 88 = NGVD 29 + (-0.78)

All streams listed in the Flood Hazard Data Table below were studied by detailed methods using field survey. Other flood hazard data shown on this map may have been derived using either a coastal analysis or limited detailed Riverine analysis. More information on the flooding sources studied by these analyses is contained in the Flood Insurance Study report.

FLOOD HAZARD DATA TABLE			1% Annual Chance (100-year) Water-Surface Elevation (feet NAVD88)		Floodw ay	Community Encroachment Line	
Cross Section	Stream Station	Flood Discharge (cfs)				Distance in Feet From Center of Stream to	
		Existing Land Use Conditions	Future Land Use Conditions	Existing Land Use Conditions	Future Land Use Conditions	Encroachment Bound Left / Right	dary (Looking Downstream) Left / Right
LAT BR	ANCH	ļ				Ecit / Tugit	Left / ragin
003	300 ¹	1,964	2,115	587.3 ³	587.6 ³	432 / 52	517 / 145
018	1,800 ¹	1,964	2,115	589.2	589.3	125 / 231	228 / 282
030	3,000 ¹	1,964	2,115	593.0	593.2	108 / 189	138 / 247
042	4,200 ¹	1,964	2,115	595.5	595.7	84 / 269	115 / 300
050	5,004 ¹	1,964	2,115	596.8	597.0	87 / 178	142 / 223
060	6,030 ¹	1,846	2,000	599.4	599.6	27 / 241	66 / 308
070	7,048 ¹	1,846	2,000	602.3	602.5	177 / 62	216 / 111
080	8,000 ¹	1,846	2,000	604.6	604.8	176 / 63	242 / 119
092	9,200 ¹	1,536	1,673	608.3	608.5	18 / 231	33 / 317
100	9,989 ¹	1,536	1,673	610.2	610.4	92 / 160	152 / 254
112	11,150 ¹	1,154	1,274	615.2	615.4	98 / 40	115 / 70
121	12,122 ¹	1,154	1,274	620.3	620.4	46 / 104	64 / 134
140	14,022 ¹	1,154	1,274	628.1	628.2	107 / 44	127 / 80
SIXMILE	CREEK		_			_	
191	19,100 ²	2,630	2,978	588.0	588.3	237 / 228	368 / 363
201	20,100 ²	2,630	2,978	589.5	589.8	107 / 300	146 / 373
216	21,600 ²	2,630	2,978	592.1	592.4	164 / 247	245 / 299
232	23,200 ²	2,630	2,978	595.6	595.9	85 / 182	182 / 352
247	24,700 ²	2,630	2,978	597.6	597.9	19 / 289	19 / 320
261	26,100 ²	2,630	2,978	601.7	602.0	70 / 198	98 / 255
276	27,576 ²	2,364	2,687	604.8	605.1	125 / 49	135 / 82
292	29,200 ²	2,364	2,687	607.8	608.2	300 / 79	351 / 121
304	30,400 ²	2,364	2,687	610.0	610.3	41 / 244	79 / 380
316	31,600 ²	2,149	2,454	612.7	612.9	225 / 124	275 / 212

FLO	OD HAZ	Floodw ay Width (feet) Left/Right Distance Fron			
Cross Section	Stream Station ¹	Flood Discharge (cfs)	1% Annual Chance (100-year) Water-Surface ⊟evation (feet NAVD 88)	the Center of Stream to Encroachment Boundar (Looking Downstream) of Total Floodway Width	
SIXMILE C	REEK TRIB	UTARY 2			
009	929	715	601.6	12 / 25	
014	1,360	715	603.5	30 / 60	
¹ Feet above r	nouth				

Feet above confluence with Sixmile Creek. ² Feet above county boundary. ³ Elevation includes backwater from Sixmile Creek



80°47'30"|

JOINS PANEL 4468



This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between Charlotte-Mecklenburg, the State of North Carolina, the Federal

www.ncfloodmaps.com

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

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, Floodway Data, Limited Detailed Flood Hazard 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.

Boundaries of regulatory floodways shown on the FIRM for flooding sources studied by detailed methods 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 for flooding sources studied by detailed methods as well as non-encroachment widths for flooding sources studied by limited detailed methods are provided in the Flood Insurance Study (FIS) report for this jurisdiction. The FIS report also provides instructions for determining a floodway using non-encroachment widths for flooding sources studied by limited detailed methods.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

Base map information and geospatial data used to develop this FIRM were obtained from various organizations, including the participating local community(ies), state and federal agencies, and/or other sources. The primary base for this FIRM is aerial imagery acquired by the State and planimetric base map information obtained from Mecklenburg County GIS Department. The time period of collection for the imagery is 2010. The time period of collection and maintenance for the Mecklenburg planimetric base map information is current as of 2011. Information and geospatial data supplied by the local community(ies) that met FEMA base map specifications were considered the preferred source for development of the base map. See geospatial metadata for the assoicated digital FIRM for additional information about base map preparation.

Base map features shown on this map, such as corporate limits, are based on the most up-to-date data available at the time of publication. Changes in the corporate limits may have occurred since this map was published. Map users should consult the appropriate community official or website to verify current conditions of jurisdictional boundaries and base map features. This map may contain roads that were not considered in the hydraulic analysis of streams where no new hydraulic model was created during the production of this statewide format FIRM.

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 in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is

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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.

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.

An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be Visit the North Carolina Floodplain Mapping Program website at http://www.ncfloodmaps.com, or contact the FEMA Map Information eXchange (FMIX) at 1-877-FEMA MAP (1-877-336-2627) or its website at http://www.floodmaps.fema.gov/fhm/fmx_main.html for information on all related products associated with this FIRM.

MAP REPOSITORY Refer to listing of Map Repositories on Map Index or visit http://www.ncfloodmaps.com. EFFECTIVE DATE OF FLOOD INSURANCE RATE MAP PANEL OCTOBER 16, 2008

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL MARCH 2, 2009 – to update flood hazards to reflect seamless statewide mapping - to change Base Flood Elevations and Special Flood Hazard Areas FEBRUARY 19, 2014

For community map revision history prior to statewide 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, the North Carolina Division of Emergency Management or the National Flood Insurance Program at the following phone numbers or websites:

NC Division of Emergency Management (919) 715-8000

http://www.nccrimecontrol.org/nfip

Charlotte-Mecklenburg Storm Water Services (704) 336-3734 National Flood Insurance Program 1-800-638-6620 http://www.fema.gov/business/nfip/

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, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. **ZONE A** No Base Flood Elevation determined.

1 470 000 FEET

480 000 FEET

ZONE AE Base Flood Elevations determined. **ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average

ZONE 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 protection from the 1% annual chance or greater flood.

ZONE A99 Areas to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined. Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

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

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.

COMMUNITY ENCROACHMENT AREAS (Mecklenburg County)

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with **ZONE X** 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 FLOOD AREAS (Mecklenburg County)

Areas of future conditions 1% annual chance flood; areas of 1% annual **ZONE X** 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 **ZONE X** Areas determined to be outside the 0.2% annual chance floodplain; areas outside future conditions 1% 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.

1% annual chance floodplain boundary 1% annual chance future conditions floodplain boundary Mecklenburg County) 0.2% annual chance floodplain boundary

1% annual chance floodplain boundary (Mecklenburg County)

______ Floodway boundary _____ Community encroachment boundary (Mecklenburg County) 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*

Base Flood Elevation value where uniform within zone; elevation in (EL 987) * Referenced to the North American Vertical Datum of 1988

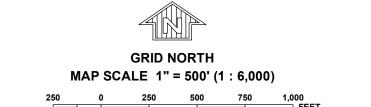
Cross section line (23)-----(23) Transect line

Geographic coordinates referenced to the North American Datum of 97°07'30", 32°22'30" 1983 (NAD 83) 4275000 M 1000-meter Universal Transverse Mercator grid ticks, zone 17 2500-foot grid values: North Carolina State Plane coordinate system 1 477 500 FEET (FIPSZONE 3200, State Plane NAD 83 feet)

North Carolina Geodetic Survey bench mark (for more information BM5510 visit http://www.ncgs.state.nc.us) National Geodetic Survey bench mark (for more information visit http://www.ngs.noaa.gov) NGS-58 GPS 2-5 cm Vertical Control Marks or Contractor-Established

NCFMP Bench Marks (for more information visit http://www.ncgs.state.nc.us) Mecklenburg County bench mark (for more information visit RM_LSUG14 ftp://ftp1.co.mecklenburg.nc.us/luesa/stormwater/FIRM Reference Marks/)

● M1.5





PANEL 4467 (SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL **CONTAINS:**

PANEL 4467L

COMMUNITY CID No. PANEL SUFFIX CHARLOTTE, CITY OF 370159 4467 MECKLENBURG COUNTY 370158 4467 UNION COUNTY 370234 4467 WEDDINGTON, TOWN OF 370518 4467

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



Services Services Services State of North Carolina Federal Emergency Management Agency



Emergency Management Agency (FEMA), and the U.S. Army Corps of Engineers. Charlotte-Mecklenburg Storm Water Services (CMSWS) has developed a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by CMSWS commitment to map floodplain areas at the local level. As a part of this effort, CMSWS has joined in a Cooperating Technical Community agreement with FEMA and a partnership with the NCFMP to produce and maintain this digital FIRM.

http://stormwater.charmeck.org