



Development Services Center

FLOODPLAIN DEVELOPMENT REVIEW

FLOODPLAIN IMPACT PLAN CHECKLIST

Development Services Center
 101 City Hall Plaza | Durham, NC 27701
 919-560-4137 or 919-560-4144 | dscfloodplain@durhamnc.gov
www.durhamnc.gov

FLOODPLAIN IMPACT PLAN CHECKLIST																
For more information contact:	DSCFloodplain@durhamnc.gov															
The checklist should be used to develop the Floodplain Impact Plan and should accompany all Floodplain Submittals with development in the floodplain.																
<input type="checkbox"/> The following information is required to be shown on the plan: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> North arrow,</td> <td><input type="checkbox"/> Grading,</td> <td><input type="checkbox"/> All Elevations (referenced to NAVD88 DATUM),</td> </tr> <tr> <td><input type="checkbox"/> Erosion Control Measures,</td> <td><input type="checkbox"/> Scale,</td> <td><input type="checkbox"/> Existing structures/infrastructure,</td> </tr> <tr> <td><input type="checkbox"/> All site Flood sources,</td> <td><input type="checkbox"/> Cross-section locations,</td> <td><input type="checkbox"/> Indicate proposed work,</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> Signed, Dated, and Sealed by State of North Carolina licensed engineer.</td> </tr> </table>		<input type="checkbox"/> North arrow,	<input type="checkbox"/> Grading,	<input type="checkbox"/> All Elevations (referenced to NAVD88 DATUM),	<input type="checkbox"/> Erosion Control Measures,	<input type="checkbox"/> Scale,	<input type="checkbox"/> Existing structures/infrastructure,	<input type="checkbox"/> All site Flood sources,	<input type="checkbox"/> Cross-section locations,	<input type="checkbox"/> Indicate proposed work,	<input type="checkbox"/> Signed, Dated, and Sealed by State of North Carolina licensed engineer.					
<input type="checkbox"/> North arrow,	<input type="checkbox"/> Grading,	<input type="checkbox"/> All Elevations (referenced to NAVD88 DATUM),														
<input type="checkbox"/> Erosion Control Measures,	<input type="checkbox"/> Scale,	<input type="checkbox"/> Existing structures/infrastructure,														
<input type="checkbox"/> All site Flood sources,	<input type="checkbox"/> Cross-section locations,	<input type="checkbox"/> Indicate proposed work,														
<input type="checkbox"/> Signed, Dated, and Sealed by State of North Carolina licensed engineer.																
<input type="checkbox"/> All flooding sources associated with the development encroachment located on the site including the following in the details (list in chronological order): <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> FEMA Stream Name(s)</td> <td><input type="checkbox"/> FIRM panel number(s) with associated effective date(s)</td> </tr> </table> <input type="checkbox"/> Where applicable: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> LOMR(s) number(s) with associated effective date(s) & FEMA Stream Name(s)</td> </tr> <tr> <td><input type="checkbox"/> Flood Study(s) with associated FEMA Stream Name(s) and when generated as Private and or By Others; include the following: <input type="checkbox"/> Engineer's Name, <input type="checkbox"/> Company's Name, <input type="checkbox"/> Company Address, <input type="checkbox"/> Phone, <input type="checkbox"/> Email.</td> </tr> </table>		<input type="checkbox"/> FEMA Stream Name(s)	<input type="checkbox"/> FIRM panel number(s) with associated effective date(s)	<input type="checkbox"/> LOMR(s) number(s) with associated effective date(s) & FEMA Stream Name(s)	<input type="checkbox"/> Flood Study(s) with associated FEMA Stream Name(s) and when generated as Private and or By Others; include the following: <input type="checkbox"/> Engineer's Name, <input type="checkbox"/> Company's Name, <input type="checkbox"/> Company Address, <input type="checkbox"/> Phone, <input type="checkbox"/> Email.											
<input type="checkbox"/> FEMA Stream Name(s)	<input type="checkbox"/> FIRM panel number(s) with associated effective date(s)															
<input type="checkbox"/> LOMR(s) number(s) with associated effective date(s) & FEMA Stream Name(s)																
<input type="checkbox"/> Flood Study(s) with associated FEMA Stream Name(s) and when generated as Private and or By Others; include the following: <input type="checkbox"/> Engineer's Name, <input type="checkbox"/> Company's Name, <input type="checkbox"/> Company Address, <input type="checkbox"/> Phone, <input type="checkbox"/> Email.																
<input type="checkbox"/> Label "1% ACF Future BFE Survey Located" , as Base Flood Elevation (BFE) Future to the nearest 10 th of a foot for accuracy at the property limits (or delineated on surveyed topographic elevation contours). <i>Note: A BFE (future) range is acceptable when the BFE (future) increases through the limits of the project.</i>																
<input type="checkbox"/> Provide perpendicular distance ties from the survey located or topo delineated zone X (future) flood zone to the nearest point of the proposed development and or from the surveyed property line to the proposed.																
<input type="checkbox"/> Show and label limits of all flood prone areas , including, but not limited to: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Floodway,</td> <td><input type="checkbox"/> 1% ACF,</td> <td><input type="checkbox"/> Surveyed 1% ACF Future BFE (X-Future),</td> </tr> <tr> <td><input type="checkbox"/> 0.2% ACF,</td> <td><input type="checkbox"/> Non-Encroachment Area, and</td> <td><input type="checkbox"/> 4% ACF (where SCMS are near or in a floodplain).</td> </tr> </table>		<input type="checkbox"/> Floodway,	<input type="checkbox"/> 1% ACF,	<input type="checkbox"/> Surveyed 1% ACF Future BFE (X-Future),	<input type="checkbox"/> 0.2% ACF,	<input type="checkbox"/> Non-Encroachment Area, and	<input type="checkbox"/> 4% ACF (where SCMS are near or in a floodplain).									
<input type="checkbox"/> Floodway,	<input type="checkbox"/> 1% ACF,	<input type="checkbox"/> Surveyed 1% ACF Future BFE (X-Future),														
<input type="checkbox"/> 0.2% ACF,	<input type="checkbox"/> Non-Encroachment Area, and	<input type="checkbox"/> 4% ACF (where SCMS are near or in a floodplain).														
<input type="checkbox"/> Provide a Legend: Shading, hatching and Line types : <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Floodplain (shown in contrast, i.e. standouts from other shading/hatching),</td> </tr> <tr> <td><input type="checkbox"/> Floodway (shown in contrast, i.e. standouts from other shading/hatching), and</td> </tr> <tr> <td><input type="checkbox"/> Non-encroachment areas (shown in contrast, i.e. standouts from other shading/hatching).</td> </tr> </table>		<input type="checkbox"/> Floodplain (shown in contrast, i.e. standouts from other shading/hatching),	<input type="checkbox"/> Floodway (shown in contrast, i.e. standouts from other shading/hatching), and	<input type="checkbox"/> Non-encroachment areas (shown in contrast, i.e. standouts from other shading/hatching).												
<input type="checkbox"/> Floodplain (shown in contrast, i.e. standouts from other shading/hatching),																
<input type="checkbox"/> Floodway (shown in contrast, i.e. standouts from other shading/hatching), and																
<input type="checkbox"/> Non-encroachment areas (shown in contrast, i.e. standouts from other shading/hatching).																
<input type="checkbox"/> Show and Label: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Limits of Floodplain disturbance (Each flood prone area denoted with Square Footage disturbed),</td> </tr> <tr> <td><input type="checkbox"/> Erosion buffer zones (Steep Slopes),</td> </tr> <tr> <td><input type="checkbox"/> Surface waters (Streams, Ponds, Wetlands, etc.), and <input type="checkbox"/> Associated Stream buffers & No-Build Setbacks.</td> </tr> </table>		<input type="checkbox"/> Limits of Floodplain disturbance (Each flood prone area denoted with Square Footage disturbed),	<input type="checkbox"/> Erosion buffer zones (Steep Slopes),	<input type="checkbox"/> Surface waters (Streams, Ponds, Wetlands, etc.), and <input type="checkbox"/> Associated Stream buffers & No-Build Setbacks.												
<input type="checkbox"/> Limits of Floodplain disturbance (Each flood prone area denoted with Square Footage disturbed),																
<input type="checkbox"/> Erosion buffer zones (Steep Slopes),																
<input type="checkbox"/> Surface waters (Streams, Ponds, Wetlands, etc.), and <input type="checkbox"/> Associated Stream buffers & No-Build Setbacks.																
<input type="checkbox"/> Put the following table on the impact plan and fill it out : <table style="width: 100%; border: none; margin-top: 10px;"> <tr> <td colspan="2"><u>FLOOD SOURCE AND BUFFER DISTURBANCE TABLE:</u></td> </tr> <tr> <td>FLOODPLAIN DISTURBANCE</td> <td style="text-align: right;">_____SF</td> </tr> <tr> <td>FLOODWAY DISTURBANCE</td> <td style="text-align: right;">_____SF</td> </tr> <tr> <td>NON-ENCROACHMENT DISTURBANCE</td> <td style="text-align: right;">_____SF</td> </tr> <tr> <td>SURFACE WATER DISTURBANCE</td> <td style="text-align: right;">_____SF</td> </tr> <tr> <td>SURFACE WATER BUFFER DISTURBANCE</td> <td style="text-align: right;">_____SF</td> </tr> <tr> <td>ASSOCIATED NO-BUILD SETBACK DISTURBANCE</td> <td style="text-align: right;">_____SF</td> </tr> </table>		<u>FLOOD SOURCE AND BUFFER DISTURBANCE TABLE:</u>		FLOODPLAIN DISTURBANCE	_____SF	FLOODWAY DISTURBANCE	_____SF	NON-ENCROACHMENT DISTURBANCE	_____SF	SURFACE WATER DISTURBANCE	_____SF	SURFACE WATER BUFFER DISTURBANCE	_____SF	ASSOCIATED NO-BUILD SETBACK DISTURBANCE	_____SF	
<u>FLOOD SOURCE AND BUFFER DISTURBANCE TABLE:</u>																
FLOODPLAIN DISTURBANCE	_____SF															
FLOODWAY DISTURBANCE	_____SF															
NON-ENCROACHMENT DISTURBANCE	_____SF															
SURFACE WATER DISTURBANCE	_____SF															
SURFACE WATER BUFFER DISTURBANCE	_____SF															
ASSOCIATED NO-BUILD SETBACK DISTURBANCE	_____SF															
<input type="checkbox"/> Show and label all locations and elevations of existing or proposed infrastructure in the Floodplain: <table style="width: 100%; border: none; margin-top: 5px;"> <tr> <td><input type="checkbox"/> retaining walls,</td> <td><input type="checkbox"/> streets & pavement,</td> <td><input type="checkbox"/> driveways,</td> <td><input type="checkbox"/> parking lots,</td> <td><input type="checkbox"/> accessory buildings,</td> </tr> <tr> <td><input type="checkbox"/> swimming pools,</td> <td><input type="checkbox"/> storage tanks,</td> <td><input type="checkbox"/> natural gas,</td> <td><input type="checkbox"/> electrical,</td> <td><input type="checkbox"/> trash enclosures,</td> </tr> <tr> <td><input type="checkbox"/> sanitary sewer,</td> <td><input type="checkbox"/> storm sewer,</td> <td><input type="checkbox"/> potable water,</td> <td><input type="checkbox"/> storage tanks,</td> <td><input type="checkbox"/> other infrastructure.</td> </tr> </table>		<input type="checkbox"/> retaining walls,	<input type="checkbox"/> streets & pavement,	<input type="checkbox"/> driveways,	<input type="checkbox"/> parking lots,	<input type="checkbox"/> accessory buildings,	<input type="checkbox"/> swimming pools,	<input type="checkbox"/> storage tanks,	<input type="checkbox"/> natural gas,	<input type="checkbox"/> electrical,	<input type="checkbox"/> trash enclosures,	<input type="checkbox"/> sanitary sewer,	<input type="checkbox"/> storm sewer,	<input type="checkbox"/> potable water,	<input type="checkbox"/> storage tanks,	<input type="checkbox"/> other infrastructure.
<input type="checkbox"/> retaining walls,	<input type="checkbox"/> streets & pavement,	<input type="checkbox"/> driveways,	<input type="checkbox"/> parking lots,	<input type="checkbox"/> accessory buildings,												
<input type="checkbox"/> swimming pools,	<input type="checkbox"/> storage tanks,	<input type="checkbox"/> natural gas,	<input type="checkbox"/> electrical,	<input type="checkbox"/> trash enclosures,												
<input type="checkbox"/> sanitary sewer,	<input type="checkbox"/> storm sewer,	<input type="checkbox"/> potable water,	<input type="checkbox"/> storage tanks,	<input type="checkbox"/> other infrastructure.												