

Geotechnical Design Memorandum

To: Amish T. Bhatt, SE, PE, Structural Manager, AECOM
From: Met Seyhun, P.E., Project Manager, Senior Geotechnical Engineer
Date: June 29, 2018
Subject: Lightweight Cellular Concrete Fill (LCCF) Standard Clarification
Project: Circle Interchange – Contracts 60X79 and 60X93.
Wang No. 1100-04-01

Wang is issuing a clarification on the usage of LCCF classes with respect to the reports and memos released under contracts 60X79 and 60X93. The attached Table 1 provides guidance on the latest class to be used.

Copy To: Dan Manojlovski, AECOM
Corina Farez, Wang Engineering
IDOT, Foundations and Geotechnical Unit

TABLE 1 : LCCF STANDARDS

Contract	Structure Number	SGR Title	LCCF previously specified	LCCF curently specified (governs) ¹
60X79	SN 016-1712	Ramp EN	Bridge portion SGR only - Not Applicable (N/A)	Not Applicable (N/A)
	SN 016-1807	Retaining Wall 18	MSE LCCF Class III (42+-2, 40-44 pcf As-Cast Density) ²	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-1811	Retaining Wall 20	MSE LCCF Class III (42+-2, 40-44 pcf As-Cast Density) ²	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-1813	Retaining Wall 22A	MSE LCCF Class II (24-30 pcf as-cast density) ³	MSE LCCF Class I (24-32 pcf As-Cast Density)
	SN 016-1839	Retaining Wall 22B	Drilled shaft w/lagging - N/A	N/A
	SN 016-1814	Retaining Wall 23	Drilled shaft w/lagging - N/A	N/A
	SN 016-1710	Ramp NE	No abutments - N/A	N/A
60X93	SN 016-1706	Ramp WN	No LCCF filling - N/A	N/A
	SN 016-1833	Retaining Wall 46	MSE LCCF Class IV (36-42 pcf as-cast density) ³	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-1715	Ramp WS	Bridge portion SGR only - N/A	N/A
	SN 016-1803	Retaining Wall 14	MSE LCCF Class IV (36-42 pcf as-cast density) ³	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-1718	SB Taylor Bypass	Bridge portion SGR only - N/A	N/A
	SN 016-1834	Retaining Wall 47	MSE LCCF Class III (42+-2, 40-44 pcf As-Cast Density) ²	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-1714	Ramp SE	Bridge portion SGR only - N/A	N/A
	SN 016-1835	Retaining Wall 48	MSE LCCF Class III (42+-2, 40-44 pcf As-Cast Density) ²	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-1805	Retaining Wall 16	MSE LCCF Class III (42+-2, 40-44 pcf As-Cast Density) ²	MSE LCCF Class III (36-44 pcf As-Cast Density)
	SN 016-2311	Existing Wall	Probe investigation - N/A	N/A
	SN 016-0461	WB Congress Viaduct	Bridge Rehabilitation work only - N/A	N/A

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Notes: ¹IDOT District One Special Provison: Lightweight Cellular Concrete Fill (LCCF), Revised June 18, 2018²IDOT Guide Bridge Special Provision (GBSP) No. 87: Lightweight Cellular Concrete Fill (LCCF) , Revised April 1, 2016³IDOT District One Special Provision: Lightweight Cellular Concrete Fill (LCCF), Revised February 1, 2016