

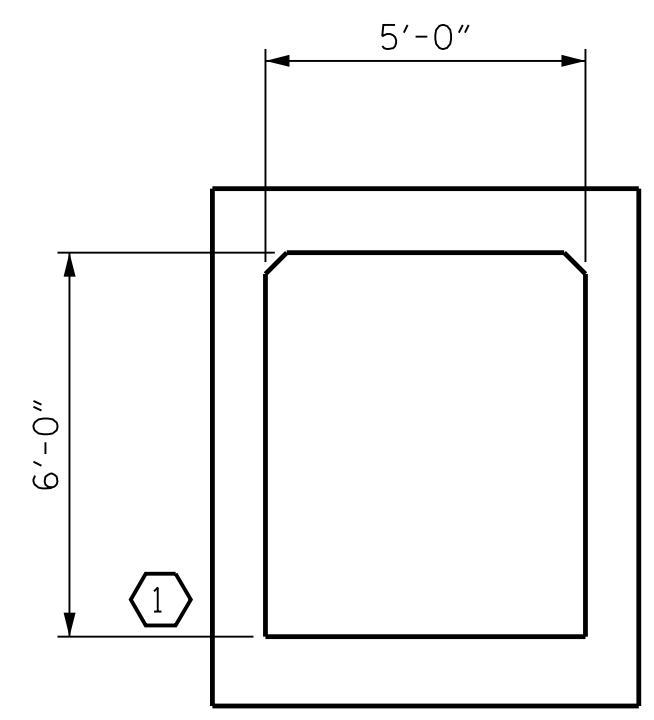
PLOT DRIVER: NCDOT... PENTABLE: NCDOT STRUCTURES DEFAULT PEN.tbl  
 USER: PPETERSO DATE: 10/11/2021 TIME: 8:11:47 AM  
 FILE: ...RATING SUMMARY

**LOAD FACTORS:**

DESIGN LOAD RATING FACTORS		
LOAD TYPE	MAX FACTOR	MIN FACTOR
DC	1.25	0.90
DW	1.50	0.65
EV	1.30	0.90
EH	1.35	0.90
ES	1.35	0.90
WA	1.00	--

LOAD AND RESISTANCE FACTOR RATING (LRFR) SUMMARY FOR REINFORCED CONCRETE BOX CULVERTS										
	CONTROLLING LOAD RATING	MINIMUM RATING FACTOR (RF)	STRENGTH I LIMIT STATE							
			MOMENT				SHEAR			
			RATING FACTOR	BOX NO.	ELEMENT TYPE	DISTANCE FROM LEFT END OF ELEMENT (ft)	RATING FACTOR	BOX NO.	ELEMENT TYPE	DISTANCE FROM LEFT END OF ELEMENT (ft)
PERMANENT LOAD RATING	1	1.08	1.11	1	BOTTOM SLAB	3.33	1.08	1	EXTERIOR WALL	1.68

**NOTES:**  
 RATING FACTORS ARE BASED ON THE STRENGTH I LIMIT STATE.  
 THE EFFECTS OF LIVE LOAD ON DESIGN AND LOAD RATING MAY BE NEGLECTED FOR CULVERTS WITH CERTAIN FILL DEPTHS DESCRIBED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.  
 CULVERTS WITH NEGLIGIBLE LIVE LOAD SHOULD BE LOAD RATED FOR PERMANENT LOADS ONLY IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.

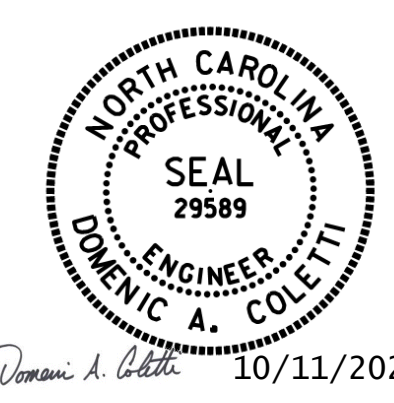


**LRFR SUMMARY**  
(LOOKING DOWN STREAM)

PROJECT NO. U-2579AB  
FORSYTH COUNTY  
 STATION: 43+66.60 -Y15FLYCA-  
 SHEET 5 OF 5

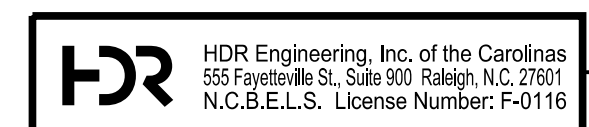
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**LRFR SUMMARY FOR REINFORCED CONCRETE BOX CULVERTS**  
 (DEEP FILLS)



*Dominic A. Coletti* 10/11/2021

DES BY: <u>T. MCALEENAN</u>	DATE: <u>10/19</u>	DWG BY: <u>T. MCALEENAN</u>	DATE: <u>10/19</u>
DES CHK: <u>R. TURNAGE</u>	DATE: <u>10/19</u>	CHK BY: <u>R. TURNAGE</u>	DATE: <u>10/19</u>



**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

REVISIONS						SHEET NO. C3-5 TOTAL SHEETS 5
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			