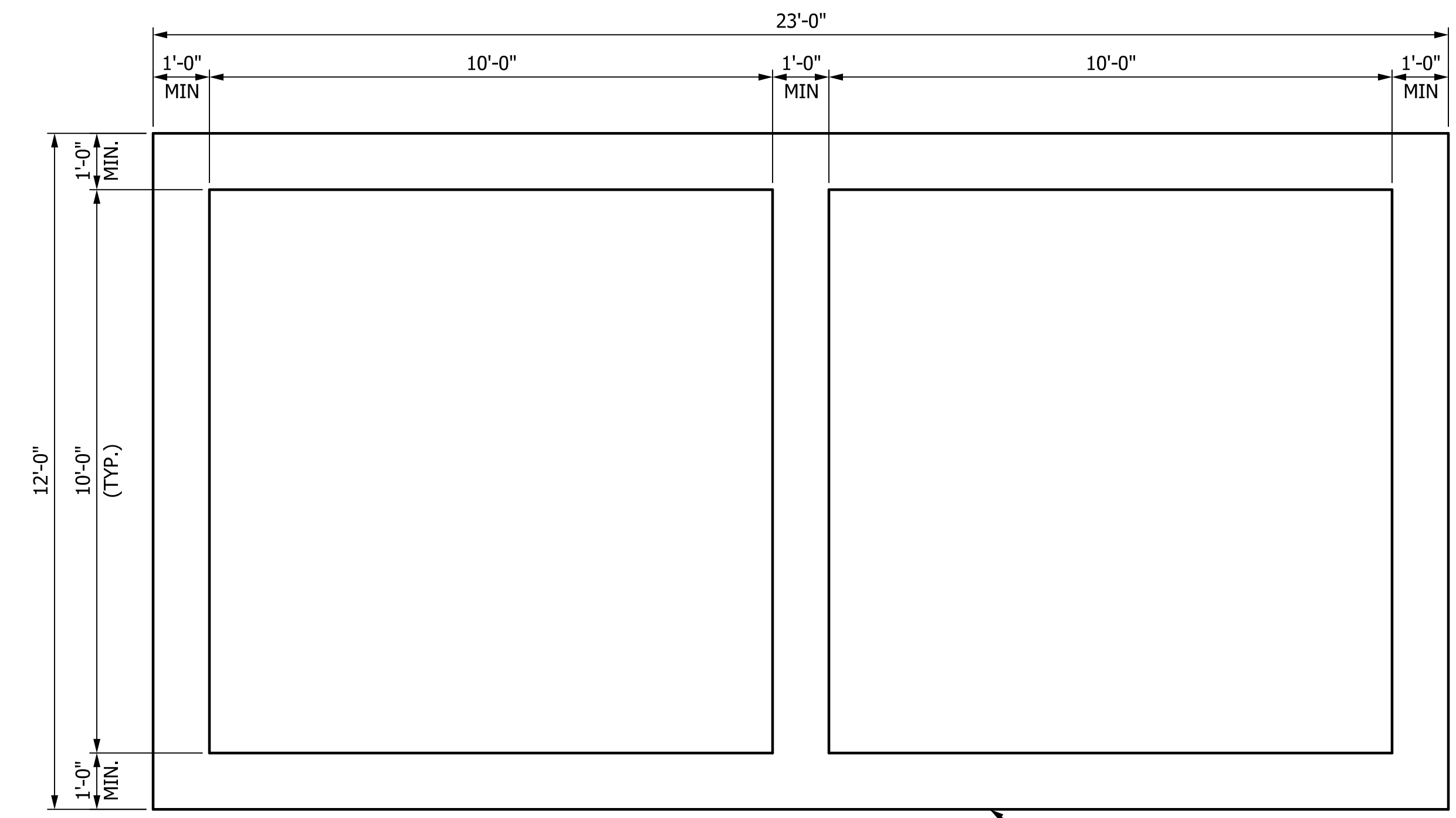


PLAN



TYPICAL SECTION

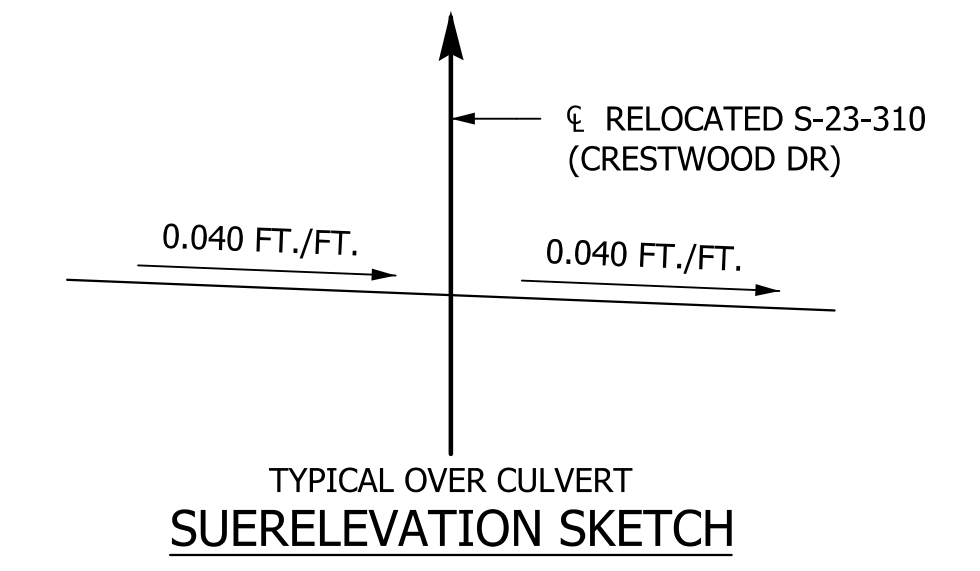
DOUBLE CELL 10'-0" X 10'-0" CAST-IN-PLACE CONCRETE BOX CULVERT

NOTES:
 (A) REMOVE AND DISPOSE OF EXISTING 28'-0" X 30'-0" 1-SPAN SIMPLE CONCRETE SLAB BRIDGE AND APPURTENANCES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

CONTROL POINTS

CP6
 ELEVATION = 1028.00
 N 1580042.49 E 1117495.80
 BRIDGE NL

CP7
 ELEVATION = 1023.68
 N 1580204.34 E 1117718.97
 BRIDGE NL



GRADE DATA

GRADE POINT ELEV. @ STA. 23+08.00 S-23-310 = 1024.700
 INVERT ELEV. @ STA. 23+08.00 S-23-310 = 1007.915
 ROADWAY SLOPES 2:1

VERTICAL CURVE DATA

PVI = 21+50.00 PVI = 23+00.00
 ELEV. 1028.26 ELEV. 1023.38
 V.C. = 100' V.C. = 200'

-1.20% -3.26% +2.16%

HORIZONTAL CURVE DATA

PI = 22+36.68
 Δ = 59°-03'-17" (RT)
 D = 13°-01'-18"
 T = 249.22'
 L = 453.51'
 E = 65.68'
 R = 440.00'

HYDROLOGY DATA

D.A. = 0.86 SQ. MILES
 Q₂₅ = 530 CFS
 VELOCITY₂₅ = 8.66 FPS
 25-YEAR HW ELEV. = 1015.88
 25-YEAR BACKWATER = 0.29 FT.
 AREA FURNISHED UNDER₂₅ = 119 SQ. FT.
 Q₁₀₀ = 711 CFS
 VELOCITY₁₀₀ = 9.70 FPS
 100-YEAR HW ELEV. = 1016.32
 100-YEAR BACKWATER = 0.39 FT.
 AREA FURNISHED UNDER₁₀₀ = 107 SQ. FT.

SURVEY WATER ELEVATION = 1008.5
 TIME OF SURVEY = 2023-07-06

OVERTOPPING FLOOD

Q = 2,790 CFS
 PROBABILITY < 0.2%

CADD FILE INFORMATION 6:48:39 AM
 PLOTTED DATE 11/5/2024
 FILE NAME ...S-23-310 over Langston Tributary_cp_Microstation
 USER NAME dhorton

REV.	BY	CHK.	DATE	DESCRIPTION OF REVISION

QUAN.	DR.	DES.	MEW	BJA	DATE	BY	CHK.

NOT FOR CONSTRUCTION	CONCEPTUAL PLANS	HNTB CORPORATION SC License No. 265 4000 Center at North Hills Street, Suite 500, Raleigh, N.C. 27609	
	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION		
	CULVERT PLAN AND TYPICAL SECTION		
COUNTY: GREENVILLE		ROUTE: S-23-310	