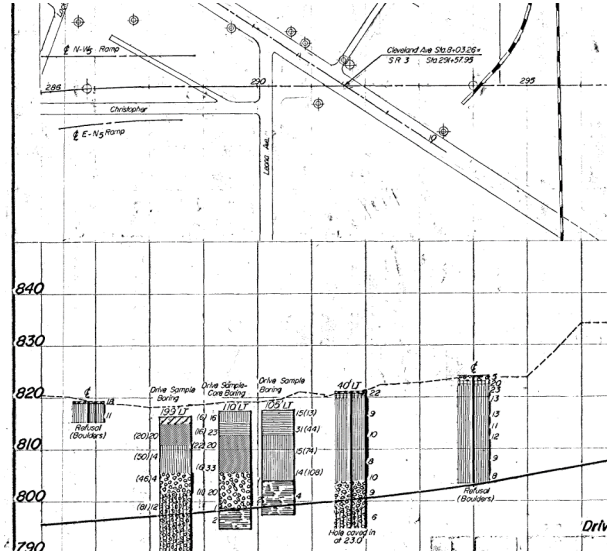


Geotechnical Information

Surface Elev.	=	819.5 ft	(Boring Logs)
Bottom of FTG. Elev.	=	793.9 ft	(Record Plans)
Depth to Bottom FTG.	=	25.6 ft	



Note: Per email by NEAS (Geotechnical Engineer) on 10/14/2022: a Seismic Site Class of D - Stiff Soil, is recommended.

Elastic seismic response parameters

Risk Category	=	1	(Default/Stiff Soil)
Soil classification (Class/type)	=	'D'	(ASCE 7-16 Seismic Hazard Tool & ATC Hazard Tool)
PGA (Peak Ground Acceleration, Site Class D)	=	0.059	AASHTO LRFD 9TH ED. TABLE 3.10.3.2-1
F _{PGA} (Site Factor)	=	1.6	AASHTO LRFD 9TH ED. EQN 3.10.4.2-2
A _s (Acceleration Coefficient)	=	0.094	
25% of Permanent D.L shall be considered for horizontal seismic force (LRFD 3.10.9.2)			

Total Unfactored Dead Loads, Kip (MDX Models)

	DC1	DC2	
	252.06	63.36	
	228.96	63.36	
	228.96	63.36	
	228.96	63.36	
	228.96	63.36	
	242.26	63.36	
	265.45	63.36	
Total DL (DC1 + DC2)	2119.13	kip	
# of Gir	7		(No. of beams)
DL per Gir	302.73286	kip	(Dead Load on each girder)
25% DL (per Gir)	75.683214	kip	(25% of DL for EQ forces)
# of Bolts per BRG	2		(Total # of bolts per BRG)
Horiz. Force per Bolt	37.842	kip	(Design Shear)

Scope: Check for minimum supports length for horizontal displacements at abutments and bearings strength at pier

Anchor Bolts Edge Distances & Spacing

BRG PL. Width	2.792	Ft	
Dist. b/w bolts	2.4583	Ft	(Bolt line dia)
Exis. Column Dia	3.3333	Ft	
Min. Edge Distance	5.2500	In	

