



# Appendix 2.2-1

## Excavation Calculations

**Estimated Excavation Take Offs - Phase 1 - Project Maximus - Based on Populous Drawings Rev 10**

7,600.00	Dock Service Drive 82 to 63.5 *2 (sf)		
18.50	Max Depth of Excavation ft		
70,300.00	CF Material		
2,912.00	Bus Depot Landing @ 63.5'		
18.50	Depth at landing		
53,872.00	CF Material		
8,250.00	Ramp to BD (sf)		
20.90	Average Depth of Excavation		
172,425.00	CF Material at ramp		
106,645.00	BD & RideShare + Donut	266,284.00	Garage A (SF)
23.30	Depth of Fin floor	49,596.00	CUP A (with ramp space - up) (SF)
2,484,828.50	CF Material at Bus Depot Slab	315,880.00	Total Ground Floor (SF)
125,407.00	Total SF slabs	(106,645.00)	Less Bus Depot (SF)
4.00	Depth to Bottom Footing	209,235.00	Total Area at 4' excavation (SF)
501,628.00	CF Material for Footings	4.00	Depth to bottom of footings
3,283,053.50	Total CF Material Displaced BD	836,940.00	Total CF Material Displaced
121,594.57	Total CY Material Displaced BD	30,997.78	Total CY Material Displaced Spread Footings
<b>Total CY Material Displaced Garage A / CUP / Donut</b>		<b>152,592</b>	

**Estimated Excavation Take Offs - Phase 2 - Project Maximus - Based on Populous Drawings Issued 12/15/23**

<b>Deep Foundation (loading dock)</b>	<b>Basement Level (Casino / MICE / Hotel 1&amp;2)</b>	<b>VALET (Part of Parking B &amp; C)</b>	
<b>44,013</b> SF BOH LOADING DOCKS	<b>374,460</b> SF	<b>74,756</b> SF	
44,013 Total SF Deep Excavation	374,460 Total SF Ground Floor	74,756 Total SF Ground Floor	
22 Depth of Fin floor - FT	18 Depth of Fin floor - FT	12 Depth of Fin floor - FT	
968,286 CF material	6,740,273 CF material	897,072 CF material	
4 Depth to Bottom Footing - FT	4 Depth to Bottom Footing - FT	4 Depth to Bottom Footing - FT	
176,052 CF Material	1,497,838 CF Material	299,024 CF Material	
300 LF Non SOE (Benched)	1,287 LF Non SOE (Benched)	1,743 LF Non SOE (Benched)	
72,600 CF Bench Material	208,494 CF Bench Material	125,496 CF Bench Material	
1,216,938 Total CF Material Displaced BD	8,446,605 Total CF Material Displaced BD	1,321,592 Total CF Material Displaced BD	
<b>45,072</b> Total CY Material Displaced BD	<b>312,837</b> Total CY Material Displaced BD	<b>48,948</b> Total CY Material Displaced BD	
	<b>357,909</b> CY Fill Removed - Casino with Benching		
	266 LF SOE (North Foundation Wall - by Hotel 2)	145 LF SOE (North Wall MICE)	
	370 LF SOE (along N/S Road at LD + Ramp)		
<b>Theatre</b>	<b>On Grade Work (Inclusive of Bench Cut)</b>		
<b>57,826</b> SF	<b>163,238</b> Hotel 2		5007
	<b>49,416</b> MICE + GARAGE	MICE + GARAGE	7321
	<b>143,192</b> THEATRE GARAGE	THEATRE GARAGE	
57,826 Total SF Ground Floor	355,846 Total SF Ground Floor		
18 Depth of Fin floor - FT	355,846 Total Area at 4' excavation		
1,040,868 CF material	4 Depth of Excavation - FT		
4 Depth to Bottom Footing - FT	- LF Non SOE (Benched)		
231,304 CF Material	- CF Bench Material		
245 LF Non SOE (Benched)	1,423,384 Total CF Material Displaced		
39,690 CF Bench Material	<b>52,718</b> Total CY Material Displaced Spread Footings		
1,311,862 Total CF Material Displaced BD			
<b>48,587</b> Total CY Material Displaced BD			
- LF SOE (All Benched or Adjacent)	- LF SOE	781	Approx Total LF SOE (32' deep max)
<b>Total CY Material Displaced Phase 2</b>	<b>508,162</b> CY	<b>660,755</b>	Total Phase 1 and 2