

Project:	Big City Pool & Play Ground	Date:	1/1/2024
Client:	Patterson Concrete		
Location:	East Greenwich		
Mix Code:	C35-NA		
Specified Strength f _c :	9000	Mix Category:	Footing
Design Slump Range:	3-4"	Placement Method:	Bucket
Specified Air Range:	4.5-7		

Full Gradation Analysis - Percent Retained

Sieve	ACI - 1. 1/2	3/8" Stone	ACI Fine Agg	Total percent retained on each sieve
3.0"	0.00	0.00	0.00	0.0
2.5"	0.00	0.00	0.00	0.0
2.0"	0.00	0.00	0.00	0.0
1.5"	0.00	0.00	0.00	0.0
1.0"	0.73	0.00	0.00	0.7
3/4"	6.57	0.00	0.00	6.6
1/2"	18.97	0.00	0.00	19.0
3/8"	7.30	2.55	0.00	9.8
No.4	2.19	15.29	0.38	17.9
No.8	0.26	0.42	4.95	5.6
No.16	0.15	0.21	6.89	7.3
No.30	0.33	1.06	10.19	11.6
No.50	0.00	1.70	14.46	16.2
No.100	0.00	0.00	4.90	4.9
No.200	0.00	0.00	0.08	0.1
Pan	0.00	0.00	0.42	0.4
Fineness Modulus:	7.08	5.61	2.81	4.96 FM
% of Aggregate (Vol)	36.49%	21.23%	42.28%	
% of Total Mix Volume	24.34%	14.16%	28.20%	66.70%
Aggregate Mass (Lbs)	1087	637	1264	2987
Coarse Aggregat: Q	36.1%			Mortar Fraction: 60.2%
Intermediate: I	23.5%			Paste Fraction: 33.3%
Workability Factor: (Fines W)	40.4%			Coarseness Factor: 60.60%
Cementitious:		Pounds:	Volume	% of CM (Wt) % of Mix (vol) % Total
Portland Type II		350	1.78	66.7% 6.59% Cementitious
F Ash		75	0.47	14.3% 1.75% by volume
GGBFS - Slag Cement		100	0.55	19.0% 2.05% 10.39%
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Mix Water =	34.21	gallons	285 pounds	W/cm 0.543

