01-1451

Date: **07/18/2025**

Submittal No: **05**

Project: **Fletcher ES Mod. Classroom Building**
BP# 02 Building & Site Concrete
9801 Highland Knolls Dr.
Bakersfield, CA 93306

Owner: **Bakersfield City School District**
1300 Baker St.
Bakersfield, CA 93305

Architect: **Ordiz Melby Architects, Inc.**
5500 Ming Ave. Ste. 280
Bakersfield, CA 93309

Contractor: **JTS Construction**
P.O. Box 41765
Bakersfield, CA 93384-1765

Subcontractor: **Holliday Rock Co., Inc.**

Submittal: **Site Concrete Mix Design Sidewalks**

Contractor's Stamp
JTS CONSTRUCTION
BY: Omar Cabral
DATE: 7/18/2025
REVIEWED/RESUBMIT

Architect's Stamp

07/17/2025

Submittal Date**: 07/17/2025**
Customer: **JTS Construction**
Project: **Fletcher ES Sitework (1) Perm. Modular TK Classroom**
Regarding: **9801 Highland Knolls Drive, Bakersfield**

For your approval we are submitting the following mix design(s), product data and pre-construction documents for use on the above referenced project.

Mix	Use	Slump	Air	Specified Strength
3C32L604	Site Concrete, Sidewalks, Curbs, Pavement	4.0" ± 1.0	1.5	3200 psi @ 28 Days
3F35K850	Footings, Slab-on-Grade	4.0" ± 1.0	1.5	3500 psi @ 28 Days

Concrete will be batched and delivered from Holliday Rock batch plants selected based on factors such as plant capacity, truck availability, road conditions, weather, and specific project requirements. Depending on these factors, more than one plant may be used to ensure reliable service and timely delivery.

Holliday Rock does not guarantee a single source of aggregates, cementitious materials, or admixtures. We reserve the right to substitute raw materials in the mix due to availability or market conditions, provided the mix complies with project specifications.

Holliday Rock is not responsible for failed concrete test results derived from procedures that do not adhere to the most current ACI and ASTM standards. This includes, but is not limited to, improper sampling, casting, initial curing of cylinders, cylinder transportation, final curing, or reporting. In the event of non-compliant test results, please notify us promptly to allow for investigation and response.

Per ACI 318 Section 26.12.1, all acceptance test reports must be submitted to Holliday Rock Co., Inc. at qcreports@hollidayrock.com. Failure to submit these reports may void your rights in the event of material issues or disputes.

Sincerely,

Terry Beach
(909) 982-1553, 2347
tbeach@hollidayrock.com

Afinar
Civil Engineers / Surveyors / Planners / Construction Managers
214 Bernard Street, Bakersfield, CA 93305
Phone (661) 716-7443

No Exceptions Taken ☒ Make Correction Noted ☒
Rejected ☐ Revise and Resubmit ☐
No Action Required ☐ Intermediate Submittal Required ☐

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the jobsite: fabrication, process and techniques of construction: coordination with all other trades and satisfactory performance of their work. See attached Submittal Checklist for comments.

X Bernard Salgado 7-23-2025

Concrete Mix Submittal

Submittal Information		Mix Information	
Submittal Name	Fletcher ES Sitework (1) Perm. Modular TK Classroo	**Mix ID**	3C32L604
Date Submitted	07/17/2025	**Mix Description**	3200psi 1`` 0.50wcr Trailer Pump
Customer	JTS Construction	**Compressive Strength (f'c)**	3200 psi @ 28 Days
Project Name	Fletcher ES Sitework (1) Perm. Modular TK Classroom		
		Aggregate Nominal Size	1" (25mm)
Use	Site Concrete, Sidewalks, Curbs, Pavement	**Air Entrained**	No

Mix Properties

Slump	4.0" ± 1.0 in.	**Sack Content**	6.30 94 lb/sack	**Total Mass**	4002 lb
Air	1.5 %	**Total Water**	35.50 gal	**Total Volume**	27.05 ft3
W/CM Ratio	0.50	**Water/Sack**	5.63 gal	**Unit Weight**	147.94 lb/ft3

Group	Material Description	Specific Gravity	Weight (lbs/yd³)	Volume (ft³)
Cement	CEMENT TYPE II/V	3.15	592	3.012
Aggregate	#3 AGG 1"	2.666	1187	7.135
	#4 AGG 3/8"	2.62	525	3.211
	W/C SAND	2.634	1400	8.518
Water	WATER	1	296	4.746
Admixture	Type A -LRWR Dosage: 3.5 fl oz/100 lb CM Range: 0-5 fl oz/100 lb CM	1.11	1.499	0.02164
Air	Air			0.405

Type V per soils report

Mix Notes: All aggregate weights are saturated surface dry (SSD) weights; moisture content of the materials is adjusted based on moisture content at batch. Holliday Rock may adjust dosage(s) of admixture(s) per manufacturer's recommendations to compensate for variable ambient and jobsite conditions, placement needs or transit times. The following admixtures may be added to the mix(es) as needed: Type F HRWR, Type C Accelerator, Type B Retarder. Request when ordering.

Submittal Notes: Batch Plant: Bakersfield #1, Bakersfield #2 Tehachapi

Bakersfield
2603 E Brundage Ln
Bakersfield, CA 93307

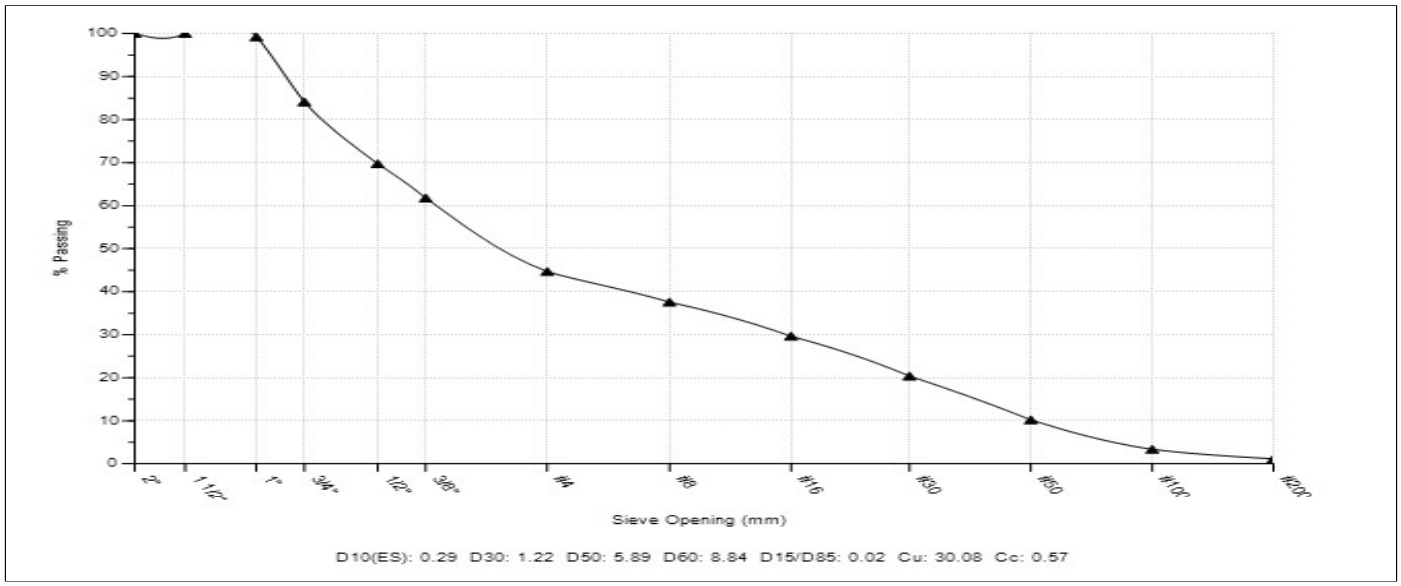
Combined Aggregate Blend Report

Mix ID	3C32L604	**Nominal Max Size**	1" (25mm)
Mix Name	3200psi 1`` 0.50wcr Trailer Pump	**Aggregate Volume**	18.9
Design Strength (f'c)	3200 psi @ 28 Days	**Coarse Aggregate %**	54.8
Specification		**Fine Aggregate %**	45.2

% Passing Gradations

Aggregate Type	Coarse	Coarse	Fine
% Contribution	38	17	45

Sieve/Test	Spec	Result	#3 AGG 1"	#4 AGG 3/8"	W/C SAND
2" (50mm)		100.0	100	100	100
1 1/2" (37.5mm)		100.0	100	100	100
1" (25mm)		99.2	98	100	100
3/4" (19mm)		84.1	58	100	100
1/2" (12.5mm)		69.7	20	100	100
3/8" (9.5mm)		61.8	3	91	100
#4 (4.75mm)		44.7	2	6	95
#8 (2.36mm)		37.6	1	3	81
#16 (1.18mm)		29.7	1	2	64
#30 (.6mm)		20.4	1	1	44
#50 (.3mm)		10.2	1	0	22
#100 (.15mm)		3.4	1	0	7
#200 (75µm)		1.15	0	0	2.3



Chino
5150 Schaefer Ave
Chino, CA 91710

0.50wcr 1" 15% Ash Mojave

Mix WCRMJ 1" 15% Ash-Mojave 1" 15% Ash 0.34-0.69

Design			
Trial	1	2	3
ID	WCRMJ 1" 15% Ash	WCRMJ 1" 15% Ash	WCRMJ 1" 15% Ash
Name	Mojave 1" 15% Ash 0.34	Mojave 1" 15% Ash 0.46	Mojave 1" 15% Ash 0.69
Design Slump in	4	4	4
Design Air Content %	1.5	1.5	1.5
Design W/CM	0.35	0.46	0.69
Design Unit Weight lb/ft3	148.6	147.7	146.9
Additive Replacement %	127	95	63
Additive Efficiency %	100	100	100

Compressive Strengths			
3-Day Avg psi	6450	4360	2230
7-Day Avg psi	6390	4670	2360
28-Day Avg psi	7590	5840	3200
56-Day Avg psi	8790	6290	3560
90-Day Avg psi	8830	6480	3680