



**TR3: Technical Report
Concrete Design Mix**
Must be typewritten.

☒ Orient and affix BIS job number label here ☒

The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 2837 Street Name Brighton 7 Street
Borough Brooklyn Block 7263 Lot 81 BIN 3196479 CB No. 313

2 Applicant Information - Licensed Concrete Testing Lab *Required for all applications.*

Director Last Name BANERJEE Director First Name DEBABRATA Director Middle Initial
Business Name IMPACT CONCRETE & CONTROL INSPECTION INC Business Telephone (718) 939-7774
Business Address 15-46 129TH STREET Business Fax (718) 939-6444
City COLLEGE POIN State NEW YORK Zip 11356 Mobile Telephone (917) 577-7540
E-Mail DBANER@GMAIL.COM
Director's Lic. Number 081431 ☒ P.E. ☐ R.A. Concrete Testing Lab Lic. Number 64

3 Strength Requirements and Design *Required for all applications. Attach Trial Mixture Report and/or Field Experience Results.*

	Mix #1	Mix #2	Mix #3
Method of Determining Proportions (Trial Mixture and/or Field Experience)	☒ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience
Date Trial Mixture Performed	06-24-15		
Specified Strength (f' c)	4000		
Required Strength (f' cr)	5200		
Specified Test Age (Days)	28		

	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Cement	Lafarge I/I	C-150	625 lbs.	lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural	C-33	1425 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	Stone	Tilcon # 57	C-33	1725 lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC	C-94	28.5 gals.	gals.	gals.
Admixture #1 (oz)	Air	Sika Air	C-260	2.2 oz	oz	oz
Admixture #2 (oz)	HRWR	Sika Viscocrete-2100	C-494	29.7 oz	oz	oz
Admixture #3 (oz)	WR	Sikatard 440	C-494	11.7 oz	oz	oz
Other	Supplier may adjust	admixture as per	NYC DOB			
Water-Cement Ratio	bulletin 2010-018			0.38		
Slump/Spread (inches ± tolerance)				7.5 ± 1.5	±	±
Air Content (% ± tolerance)				5.5 %± 1.5	%±	%±
Unit Weight (lbs./ft³)				151 lbs./ft³	lbs./ft³	lbs./ft³

4 Concrete Testing Lab Director,s Statement and Signature Required for all applications.

I hereby state that the above information is correct and complete to the best of my knowledge and that the above tests were performed in accordance with all Administrative Code Provisions and Departmental Rules, Regulations and Directives.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

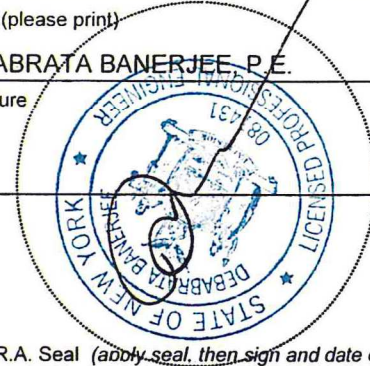
Name (please print)

DEBABRATA BANERJEE, P.E.

Signature

Date

01-30-17



P.E. / R.A. Seal (apply seal, then sign and date over seal)

5 Concrete Producer,s Statement and Signature Required for all applications. Must be filled out by Owner of Production Facility.

I certify that the material type and source in section 3 above are available at my facility and that I will use such materials to produce the concrete mix(es) specified in section 3. I further certify that I will produce and deliver such mix(es) to the project site in accordance with the applicable code provisions of the NYC construction codes and that such mix(es) are appropriate for the placement conditions for the project identified in section 1 above (BC 1905.8.2).

Name (print) Philip Mazzone	Title	
Signature	Date	NRMCA Certification Expiration Date (BC 1095.8.2) 10-20-17
Business Name Kings Ready Mix	Business Telephone (718) 438-6800	
Business Address 692 McDonald Avenue	Business Fax: (718) 436-6418	
City Brooklyn	State NY	Zip 11218

6 Design Applicant,s Statement and Signature Required for all applications. Must be filled out by P.E./R.A. responsible for plans.

I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6).

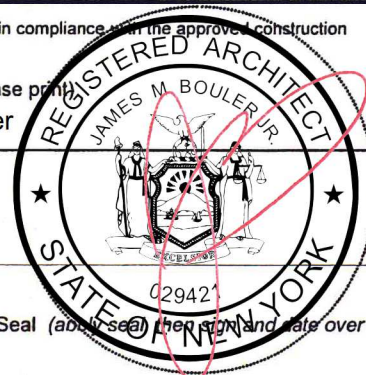
Name (please print)

James Boulter

Signature

2/8/17

Date



P.E. / R.A. Seal (apply seal, then sign and date over seal)

7 Building Owner,s Statement and Signature Required for all applications.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by a fine or imprisonment, or both. I understand that if I am found after hearing to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (print)

Title

Signature

Date

IMPACT

Concrete & Control Inspections, INC.

15-46 129th Street, College Point, New York 11356

Tel: (718) 939-7774 Fax: (718) 939-6444

The City of New York Department of Buildings Concrete Testing laboratory #64

CONCRETE MIX DESIGN REPORT

CLIENT: HUI ZHU LI PANG

DATE: 6/24/15

LAB NO.: 2015-6-24-15-CEM

MIX TYPE: Trial

Project: 2837 BRIGHTON 7 STREET

Supplier: Kings Ready Mix

DELIVERED BY: Kings

High Early 4000 psi + 1200 A.E. Normal Wt Concrete Pump @ 28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lafarge Type-I/II	ASTM C150	3.15	
Slag		ASTM C989	2.88	
Fly Ash		ASTM C618	2.20	
Silica Fume		ASTM C1240	2.20	
Fine Agg.	LI Natural	ASTM C33	2.63	
Coarse Agg.	Tilcon (#57)	ASTM C33	2.87	
Water	NYC Potable	ASTM C94	1.00	
Admixture 1	Sika - Sika Air	ASTM C260	1.1	
Admixture 2	Sika - Sikament 686	ASTM C494	1.10	Type A & F
Admixture 3	Sika - Viscocrete 2100			
Admixture 4	Sika - Sikatard 440			

Recommended Mix Design # 4

Cement (lbs.) 625

Slag (lbs.) 0

Fly Ash (lbs.)

Microsilica (lbs.)

Fine Agg. (lbs.) 1425

Coarse Agg. (lbs.) 1725

Water (gals.) 28.5

Admixture 1 (oz.) 2.2

Admixture 2 (oz.) 0.0

Admixture 3 (oz.) 29.7

Admixture 4 (oz.) 11.7

Slump (in.) 7.5" +/- 1.5" (3.0" slump before adding HRWR)

Air Content (%) 5.5 % +/- 1.5%

U. Wt. P.C.F. 151.0

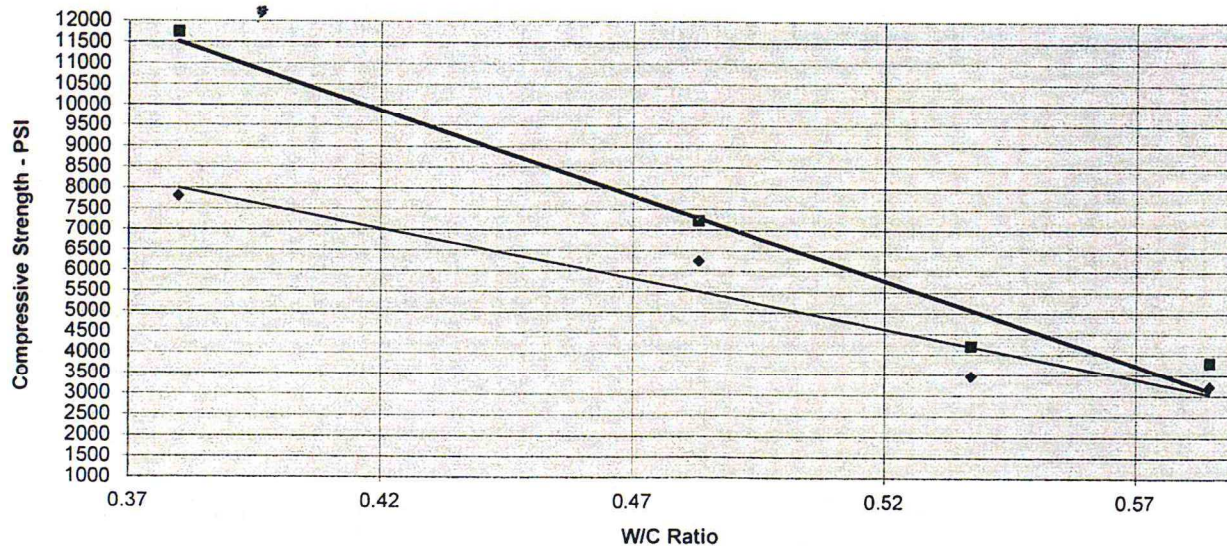
W/C Ratio 0.38

As per NYC Bulletin 2010-018 Hydration Control Admixture Sikatard 440 may be added to the mix per manufacturer's recommendation to extend the hauling time, as well as using it in Hot Weather. Non chloride accelerator Sika Set NC can be added as per manufacturer's recommendation for Cold Weather Concrete Procedures.

Not Valid without Original Stamp

Debabrata Banerjee, P.E.

Compressive Strength vs. Water Cement Ratio



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CONCRETE MIX DESIGN REPORT

CLIENT:	HUI ZHU LI PANG	DATE:	6/24/15
	0	LAB NO.:	2015-6-24-15-CEM
	0	MIX TYPE:	Trial
PROJECT:	2837 BRIGHTON 7 STREET		
	0		
SUPPLIER:	Kings Ready Mix		
High Early 4000 psi + 1200 A.E. Normal Wt Concrete Pump @ 28 Days			

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	NW 3/4 Stone	C33- Stone
2"	-	-	
1 1/2"		100.0	100
1"		100.0	100
3/4"			90-100
1/2"		25.3	25-60
3/8"	100.0	2.5	100 20-55
# 4	98.2	2.2	95-100 0-10
# 8	91.2	1.1	80-100 0-5
# 16	76.0		50-85
# 30	50.5		25-60
# 50	15.8		5-30
# 100	3.7		0-10
FM	2.65		
Unit Weight Dry Rodded			
Specific Gravity	2.63		
Colometric Test	Plate # 1		

TRIAL MIXES - DRY BATCH WEIGHTS (lbs./Cubic Yards)

Point	Yield	Cement	Slag	FlyAsh	Silica	F.A.	C.A.*	Water	Adx 1	Adx 2	Adx 3	Unit Wt	Slump(in)	W/C	Air %
1	26.9	450	0	0	0	1520	1725	31.6	1.6	31.5		150.0	6.50	0.58	5.8
2	26.8	490	0	0	0	1480	1725	31.6	1.7	39.2		147.2	7.00	0.54	5.4
3	26.9	545	0	0	0	1440	1725	31.6	1.9	49.1		148.0	7.50	0.48	6.3
4	26.8	625	0	0	0	1425	1725	28.5	2.2		29.7	151.0	8.50	0.38	4.0
											Point Sikatard 440				
											4	11.7			

COMPRESSIVE STRENGTH RESULTS (ASTM C39) - P.S.I. (4" x 8" Cylinders)

Point	w/c ratio	7 Days Results	Average	28 Days Results	Average
1	0.58	3322	3133	3618	3846
2	0.54	3517	3427	4281	4128
3	0.48	6119	6379	7100	7304
4	0.38	7588	8028	12382	11435

Point4: Water was reduced make water 0.38 per NYCDOB Bulletin 2010-018